Luxembourg Radio Interface specifications according to Directive 1999/5/EC

(Version of: 28 October 2016)

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7425 - 7725 MHz	LUX/RI PP 07	
	LUX/RI PP 08	
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880 - 915 MHz	LUX/RI UMTS 05	
925 - 960 MHz	LUX/RI UMTS 05.1	
1710 - 1785 MHz	LUX/RI UMTS 06	
1805 - 1880 MHz	LUX/RI UMTS 06.1	
1920 - 1980 MHz	LUX/RI UMTS 07	
2110 - 2170 MHz	LUX/RI UMTS 07.1	
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2500 - 2570 MHz	LUX/RI MFCN 01	
2620 - 2690 MHz	LUX/RI MFCN 01.1	
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2620 - 2690 MHz	LUX/RI MFCN 04	
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3600 - 3800 MHz	LUX/RI MFCN 08	
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832 - 862 MHz	LUX/RI TRA-ECS 01.2	
880 - 915 MHz	LUX/RI TRA-ECS 02.1	
925 - 960 MHz	LUX/RI TRA-ECS 02.2	
1710 - 1785 MHz	LUX/RI TRA-ECS 03.1	
1805 - 1880 MHz	LUX/RI TRA-ECS 03.2	

SRD

UWB applications (Generic)

Parameter	Description	Comment
	0.009 - 3000000 MHz	Harmonised radio spectrum for UWB (2014/702/EU)
	Shout Pauga Daviaga	
	Short Range Devices UWB applications	Generic UWB
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power	Power limits, mitigation techniques and special conditions
	Antenna Gain	for generic UWB defined in the annex of the European
	Radiated power	Commission decision 2014/702/EU are applicable.
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU EN 302065; EN 302066 ECC/DEC/(06)04	EN 302065: UWB EN 302066: GPR/WPR
Remarks		
Notification number	2015/12/L	
Equipment class	Class 1 + Class 2	Refer to Sub-classes (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

UWB applications (LT1)

Parameter	Description		Comment
	0.009 - 3000000 MHz		Harmonised radio spectrum for UWB (2014/702/EU)
	Short Range Devices UWB applications		Location Tracking Systems Type 1 (LT1)
			Location Tracking Systems Type 1 (ETT)
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		Power limits, mitigation techniques and special conditions
	Antenna Gain		for LTI UWB defined in the annex of the European Commission decision 2014/702/EU are applicable.
	Radiated power		Commission decision 2014/702/EO are applicable.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, no.	n-protected basis	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU EN 302500 ECC/REC(11)10		
Remarks			
Notification number	2015/12/L		
Equipment class			

Normative in accordance to the *TCAM RIG II* template

SRD

UWB applications (road and rail)

Parameter	Description	Comment
	0.009 - 3000000 MHz	Harmonised radio spectrum for UWB (2014/702/EU)
		-
		-
	Short Range Devices	
	UWB applications	UWB devices installed in road and rail vehicles
	Channel spacing	
	Designation of emission	-
	Modulation / Occupied	-
	bandwidth	-
	Reference frequency	
	Output power	Power limits, mitigation techniques and special conditions for UWB devices installed in road and rail vehicles defined
	Antenna Gain	in the annex of the European Commission decision
	Radiated power	2014/702/EU are applicable.
	Duty cycle	-
	Access protocol	-
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU EN 302065 ECC/DEC/(06)04	
Remarks		
Notification number	2015/12/L	
Equipment class	Class 1 + Class 2	Refer to Sub-classes (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the TCAM RIG II template

SRD

UWB applications (on board aircraft)

Parameter	Description	Comment
	0.009 - 3000000 MHz	Harmonised radio spectrum for UWB (2014/702/EU)
	Short Range Devices UWB applications	UWB onboard aircraft
	Channel spacing	
	Designation of emission	
	Modulation / Occupied	
	bandwidth	
	Reference frequency	
	Output power	Power limits, mitigation techniques and special conditions for UWB onboard aircraft defined in the annex of the
	Antenna Gain	European Commission decision 2014/702/EU are
	Radiated power	applicable.
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU ECC/DEC/(12)03 ERC REC 70-03 Annex 1n1	
Remarks		
Notification number	2015/12/L	
Equipment class	Class 1 + Class 2	Refer to Sub-classes (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

UWB applications (Material sensing)

Parameter	Description	Comment
	0.009 - 3000000 MHz	Harmonised radio spectrum for UWB (2014/702/EU)
	Short Range Devices UWB applications	
	Material Sensing	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied	
	bandwidth	
	Reference frequency	
	Output power	Power limits, mitigation techniques and special conditions
	Antenna Gain	for Material Sensing defined in the annex of the European
	Radiated power	Commission decision 2014/702/EU are applicable.
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU ECC/DEC/(07)01	
Remarks		
Notification number	2015/12/L	
Equipment class		

Normative in accordance to the *TCAM RIG II* template

SRD

UWB applications (BMA)

Parameter	Description	Comment
	0.009 - 3000000 MHz	Harmonised radio spectrum for UWB (2014/702/EU)
		_
		-
	Shout Danas Davios	
	Short Range Devices UWB applications	-
	BMA	-
	Channel spacing	
	Designation of emission	
	Modulation / Occupied	
	bandwidth	
	Reference frequency	
	Output power	Power limits, mitigation techniques and special conditions
	Antenna Gain	for BMA defined in the annex of the European Commission
	Radiated power	decision 2014/702/EU are applicable.
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU ECC/DEC/(07)01, ERC REC 70-03 Annex 6 EN 302 435	
Remarks		
Notification number	2015/12/L	
Equipment class	Class 1	Refer to Sub-class 57c (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	6.765 - 6.795 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
	Channel spacing	No spacing	
Channel /	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
m • (Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 1a		Band nr.22b
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 114 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	13.553 - 13.567 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power Antenna Gain		
I ower density	Radiated power	42 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 1b		Band nr.27c
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 24 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	26.957 - 27.283 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	42 dBuA/m @ 10m 10 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c		Band nr.28b
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 25 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	26.99 - 27 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	<= 10 kHz	
Transmit power /	Reference frequency Output power Antenna Gain		
Power density	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decisiom 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.29
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 118 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	27.04 - 27.05 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	<= 10 kHz	
	Reference frequency Output power		
Transmit power / Power density	Antenna Gain Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol	<0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies.
Direction /	Trans. capacity		For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Separation Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes Reference	Decisiom 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.30
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 119 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	27.09 - 27.1 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	<= 10 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decisiom 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.31
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 120 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	27.14 - 27.15 МНz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	<= 10 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decisiom 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.32
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 121 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	27.19 - 27.2 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	<= 10 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual license	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decisiom 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.33
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 122 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	40.66 - 40.7 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation	¥ V		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1d		Band nr.35
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 19 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	ription	Comment
Frequency band	138.2 - 138.45 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing	
Channell	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power	10 mW e.r.p.	
	Duty cycle	< 1.0 %	Note 1:
Channel access	Access protocol		"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and
Channel access and occupation rules	Trans. capacity		shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1e		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	169.4 - 169.475 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also identified for "Tracking, tracing and data acquisition" and "Radio microphone applications including aids for the hearing impaired"
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	<= 50 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	500 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 1.0 %	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation Authorisation			
regime Add. essential requirements	Exempt from individual licensi	ing	
Freq. planning assumption			
Planned changes Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f1		Band no. 37c
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 80 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	169.4 - 169.4875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
	Short Range Devices		
Application	Non-specific SRDs		Equipment that concentrates or multiplexes individual equipment is excluded.
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	10 mW e.r.p.	
	Duty cycle	< 0.1 %	Note 1:
Channel access	Access protocol		<i>"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and</i>
Channel access and occupation rules	Trans. capacity		shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f2		Band no. 38
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 128 (2000/299/EC)

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	169.4875 - 169.5875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Non-specific SRDs		Equipment that concentrates or multiplexes individual equipment is excluded. The frequency band is also identified for "Radio microphone applications including aids for the hearing impaired" use
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	10 mW e.r.p.	-
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	< 0.001 %, from 00:00- 06:00 < 0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f3		Band no. 39b
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 124 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	169.5875 - 169.8125 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		Equipment that concentrates or multiplexes individual equipment is excluded.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
rower density	Radiated power	10 mW e.r.p.	
	Duty cycle	<0.1%	Note 1:
Channel access	Access protocol		"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and
Channel access and occupation rules	Trans. capacity		shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f4		Band no. 40
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 129 (2000/299/EC)

I

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	ription	Comment
Frequency band	433.05 - 434.79 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
	Short Range Devices		
Application	Non-specific SRDs		
	Channel spacing	No spacing	_
Channel /	Designation of emission		-
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		Note 1:
	Antenna Gain		"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and
Transmit power / Power density	Radiated power	10 mW e.r.p.	shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Channel access	Duty cycle	< 10 %	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1g1		Band nr.44b and 45b
Remarks	This band is also defined as IS	SM band.	
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 20 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	433.05 - 434.79 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing	
Channel /	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		Power density limited to -13 dBm/10kHz for wideband
Power density	Radiated power	1 mW e.r.p. -13 dBm/10kHz	modulation with a bandwidth greater than 250 kHz.
	Duty cycle	up to 100%	Note 11: Audio and video applications are excluded. Voice
Channel access	Access protocol		applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access
and occupation rules	Trans. capacity		technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1g2		Band nr.44a and 45a
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 61 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	434.04 - 434.79 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing		
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	<= 25 KHz	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
1 0 // 01 delibitoj	Radiated power	10 mW e.r.p.	
	Duty cycle	up to 100%	Note 11: Audio and video applications are excluded. Voice
Channel access and	Access protocol		applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access
occupation rules	Trans. capacity		technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission.
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1g3		Band nr.45c
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		Sub-class 125 : Analogue audio applications other than voice are excluded. Analogue video applications are excluded
Equipment class	Class 1		Refer to Sub-class 63 (2000/299/EC) (1mW erp) Refer to Sub-class 65 (2000/299/EC) (25 kHz) Refer to Sub-class 125 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	863 - 870 MHz		Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied	<= 100 kHz, for 47 or more channels (note 2) FHSS	Note 2: "The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz." Note 5:
	bandwidth Reference frequency		"Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."
Transmit power / Power density	Output power Antenna Gain Radiated power	<= 25 mW e.r.p.	Note 6: "For other wide-band modulation than FHSS and DSSS with a bandwidth of 200 kHz to 3 MHz, duty cycle can be increased to 1% if the band is limited to 865-868 MHz and power to <= 10 mW e.r.p."
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 0.1 % or LBT	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be userdependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.1		
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		



Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	863 - 870 MHz		Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied	No spacing DSSS and other wideband	Note 5: "Duty cycle may be increased to 1% if the band islimited to 865-868 MHz." Note 6: "For wide-band techniques, other than FHSS, operating with a bandwidth of 200 kHz to 3 MHz, the duty
	bandwidth Reference frequency	modulation other than FHSS	cycle can be increased to 1% if the band is limited to $865-868$ MHz and power to ≤ 10 mW e.r.p"
Transmit power / Power density	Output power Antenna Gain Radiated power	<= 25 mW e.r.p.	Note 7: "The power density can be increased to +6.2dBm/100 kHz and +0.8dBm/100 kHz, if the band of operation is limited to 865-868 MHz and 865-870 MHz respectively."
Channel access	Duty cycle Access protocol	-4.5 dBm/100kHz <= 0.1 % or LBT+ AFA	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without
and occupation rules	Trans. capacity		AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.2		
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		



Normative in accordance to the *TCAM RIG II* template
SRD

Non-specific Short Range Devices

Parameter	Descr	ription	Comment
Frequency band	863 - 870 MHz		Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	<=100kHz, for 1 or more channels <=300Khz	Note 2:
Channel /	Designation of emission		"The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz"
modulation	Modulation / Occupied bandwidth	Narrow / wide-band modulation	Note 5: "Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."
	Reference frequency		005-000 WH2.
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	$\leq = 25 mW e.r.p.$	
	Duty cycle	<= 0.1 % or LBT + AFA	Note 1:
Channel access	Access protocol		"When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and
and occupation rules	Trans. capacity		shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.3		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		



Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	$<= 25 \ mW \ e.r.p.$	
Channel access	Duty cycle	0.1 % or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the
and	Access protocol		techniques described in harmonised standards adopted
occupation rules	Trans. capacity		under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0,1 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Analogue audio applications other than voice are excluded.		Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.46a
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 66 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
	865 - 868 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	$<= 25 \ mW \ e.r.p.$	
Channel access	Duty cycle	1 % or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the
and	Access protocol		techniques described in harmonised standards adopted
occupation rules	Trans. capacity		under Directive 1999/5/EC must be used. Alternatively a duty cycle of 1 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption	Analogue audio applications other than voice are excluded.		Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.47
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 67 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	868 - 868.6 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing, for 1 or more channels see note 2	No channel spacing, however the whole stated frequency band may be used.
Channel /	Designation of emission		Note 2: "The preferred channel spacing is 100 kHz allowing
modulation	Modulation / Occupied bandwidth	Narrow / wide-band modulation	for a subdivision into 50 kHz or 25 kHz." Note 5: "Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."
	Reference frequency		
Transmit power /	Output power Antenna Gain		-
Power density	Radiated power	$\langle = 25 mW e.r.p.$	-
	Duty cycle	<= 1.0 % or LBT + AFA	Note 1: "When either a duty cycle, LBT or equivalent technique
Channel access and occupation rules	Access protocol Trans. capacity		applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.4		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	ription	Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		_
	Designation of emission		_
	Modulation / Occupied bandwidth		-
	Reference frequency		
T	Output power		_
Transmit power / Power density	Antenna Gain		_
	Radiated power	25 mW e.r.p.	
Channel access	Duty cycle	1 % or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the
and	Access protocol		techniques described in harmonised standards adopted
occupation rules	Trans. capacity		under Directive 1999/5/EC must be used. Alternatively a duty cycle of 1 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Analogue video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.48
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 28 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	868.7 - 869.2 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing, for 1 or more channels see note 2	No channel spacing, however the whole stated frequency band may be used.
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	Narrow / wide-band modulation	Note 2: "The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz."
	Reference frequency		
Transmit power /	Output power		-
Power density	Antenna Gain		-
	Radiated power	<= 25 mW e.r.p.	
	Duty cycle	<= 0.1 % or LBT + AFA	Note 1: "When either a duty cycle, LBT or equivalent technique
Channel access	Access protocol		applies then it shall not be user dependent/adjustable and
and occupation rules	Trans. capacity		shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.5		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
			-
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		_
	Designation of emission		_
	Modulation / Occupied bandwidth		-
	Reference frequency		
T	Output power		_
Transmit power / Power density	Antenna Gain		_
10001 demotoj	Radiated power	25 mW e.r.p.	
	Duty cycle	0.1 % or see comment	Techniques to access spectrum and mitigate interference
Channel access and	Access protocol		that provide at least equivalent performance to the techniques described in harmonised standards adopted
occupation rules	Trans. capacity		under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0.1 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Analogue video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.50
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 29 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	ription	Comment
Frequency band	869.4 - 869.65 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing (1 or more channels)	
Channel /	Designation of emission		The whole stated frequency band may be used as 1 channel
modulation	Modulation / Occupied bandwidth	Narrow / wide-band modulation	for high-speed data transmission
	Reference frequency		
T 1	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	<=500 mW e.r.p.	
	Duty cycle	<=10% or LBT + AFA	Note 1: "When either a duty cycle, LBT or equivalent technique
Channel access and occupation rules	Access protocol Trans. capacity		applies then it shall not be user dependent/adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.6		
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	869.4 - 869.65 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	25kHz or see comment	
Transmit power / Power density	Output power Antenna Gain Radiated power	500 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	10% or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 10 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption	Analogue video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.54b
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 30 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
	869.4 - 869.65 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	25 mW e.r.p.	
	Duty cycle	0.1% or see comment	Techniques to access spectrum and mitigate interference
Channel access and	Access protocol		that provide at least equivalent performance to the techniques described in harmonised standards adopted
occupation rules	Trans. capacity		under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0.1 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Analogue audio applications o	other than voice are excluded.	Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.54a
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 130 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	ription	Comment
Frequency band	869.7 - 870 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing (1 or more channels)	
Channel /	Designation of emission		No channel spacing, however the whole stated frequency
modulation	Modulation / Occupied bandwidth	Narrow / wide-band modulation	band may be used.
	Reference frequency		-
	Output power		Note 11:
	Antenna Gain		"Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a
Transmit power / Power density	Fransmit power / Power density $a) \le 5 \text{ mW e.r.p.}$ $b) \le -25 \text{ mW e.r.p.}$ $b) \le -25 \text{ mW e.r.p.}$ $applications (analogue maximum bandwidth of technique such as LBT of power output sensor control of the sensor$	maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each	
Changel	Duty cycle	a) up to 100% b) up to 1% or LBT+AFA	Note 1: "When either a duty cycle, LBT or equivalent dependent /
Channel access and	Access protocol		adjustable and shall be guarentedd by appropriate means. For LBT without AFA or equivalent techniques, the duty
occupation rules	Trans. capacity		cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.7		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		



SRD

Non-specific Short Range Devices

Parameter	Description		Comment
	869.7 - 870 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	$\leq = 5 mW e.r.p.$	
	Duty cycle		
	Access protocol		Voice applications allowed with advanced mitigation techniques.
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Audio and video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.56a
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 31 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices Non-specific SRDs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	<=25 mW e.r.p.	
	Duty cycle	1% or see comment	Techniques to access spectrum and mitigate interference
Channel access	Access protocol		that provide at least equivalent performance to the techniques described in harmonised standards adopted
and occupation rules	Trans. capacity		under Directive 1999/5/EC must be used. Alternatively a duty cycle 1 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Analogue audio applications o	other than voice are excluded.	Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.56b
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 69 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	870 - 876 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for tracking, tracing, data acquisition and TTT applications.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	≤ 200 kHz	
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 0.1% or see comment	For ER-GSM protection (873-876 MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on-time of 5ms/1s.
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h2		
Remarks			
Notification number	2014/450/L		
Equipment class			

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	870 - 875.8 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for tracking, tracing, data acquisition and TTT applications.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	≤ 600 kHz	-
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 1% or see comment	For ER-GSM protection (873-876 MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on-time of 5ms/1s.
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h2.1		
Remarks			
Notification number	2014/450/L		
Equipment class			

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	915 - 921 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for radio microphone applications and RFID applications
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	≤ 200 kHz	
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 0.1% or see comment	For ER-GSM protection (918-921 MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on-time of 5ms/1s.
Direction / Separation		L	
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h3		
Remarks			
Notification number	2014/450/L		
Equipment class			

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	915.2 - 920.8 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for radio microphone applications and RFID applications
r	Channel spacing		
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth	≤ 600 kHz	For the frequencies 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz a channel bandwidth of 400 kHz applies
	Reference frequency		
Transmit power /	Output power Antenna Gain		For the frequencies 916.3 MHz, 917.5 MHz, 918.7 MHz and
Power density	Radiated power	25 mW e.r.p.	- 919.9 MHz a radiated power of 100 mW e.r.p. applies.
Channel access	Duty cycle	<= 1% or see comment	For ER-GSM protection (918-920.8 MHz, where
and	Access protocol		applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on-time of 5ms/1s.
occupation rules	Trans. capacity		(RFID tags on 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz have 100% duty cycle)
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h3.1		
Remarks			
Notification number	2014/450/L		
Equipment class			

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	2400 - 2483.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Non-specific SRDs		
	Channel spacing	No spacing	
Channel /	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
-	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	10 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 1i		Band nr.57a
Remarks	This band is also defined as ISM band.		
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 21 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	5725 - 5875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
m • (Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 1j		Band nr.61
Remarks	This band is also defined as ISM band.		
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 43 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	24000 - 24250 MHz		24.15-24.25 GHz: Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	No spacing	
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 1m		Band nr.70a (24.15-24.25 GHz)
Remarks	This band is also defined as ISM band.		
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 27 (2000/299/EC) (24.15-24.25)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	61000 - 61500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550 ERC REC 70-03 Annex 1n2		Band nr.76
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 71 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	57000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing	
Channel / modulation	Designation of emission Modulation / Occupied bandwidth Reference frequency		
Transmit power / Power density	Output power Antenna Gain Radiated power	100 mW e.i.r.p.	Max. transmitter output power of 10mW, and a power density limited to 13 dBm/MHz e.i.r.p. applies
Channel access	Duty cycle	No restriction	
and occupation rules	Access protocol Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550 ERC REC 70-03 Annex 1n1		Band no. 74a
Remarks			
Notification number	2013/32/L		
Equipment class	Class 1		Refer to Sub-class 126 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	122000 - 123000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550		Band nr.80
Remarks	This band is also defined as ISM band.		
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 107 (Decision 2000/299/CE)

Normative in accordance to the *TCAM RIG II* template

SRD

Non-specific Short Range Devices

Parameter	Descr	iption	Comment
Frequency band	244000 - 246000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
	Channel spacing	No spacing	
Channel /	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power Antenna Gain		
I ower density	Radiated power	100 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550 ERC REC 70-03 Annex 1p		Band nr.81
Remarks	This band is also defined as ISM band.		
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Sub-class 62 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Tracking.	Tracing	and Data	Acquisition
riaening,	11401118	and Data	requisition

Parameter	Descr	iption	Comment
Frequency band	0.4569 - 0.4571 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		_
Radio Service			-
	Short Range Devices		
Application	Tracking, tracing and data ac	quisition	 Emergency detection of buried victims and valuable items. No app. in Luxembourg
	Emergency detection		
	Channel spacing	Not applicable	-
Channel /	Designation of emission		_
modulation	Modulation / Occupied bandwidth	Continuous wave (CW) No modulation	Center frequency is 457 kHz
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		-
Tower density	Radiated power	7 dBuA/m @ 10m	-
Channel access	Duty cycle	up to 100%	_
and	Access protocol		-
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements	Application of Article 3.3(e), ensuring access to emergency services.		
Freq. planning assumption			
Planned changes			
Reference	Commission Decision 2013/752/EU EN 300 718 ERC REC 70-03 Annex 2a		Band no. 18
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 49 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

SRD

Tracking, tracing and data acquisition

Parameter	Descr	iption	Comment
Frequency band	169.4 - 169.475 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Tracking, tracing and data acc	quisition	
	Meter reading		
	Channel spacing	Max 50 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power	500mW e.r.p.	
	Duty cycle	< 10%	Duty cycle controls (hardware or software) related to the
Channel access and	Access protocol		<i>duty cycle requirements shall not be accessible to the user.</i> <i>The duty cycle shall not be capable of being disabled or</i>
occupation rules	Trans. capacity		altered and shall be implemented as an automatic feature in the equipment.
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC (05)02 EN 300 220 ERC REC 70-03 Annex 2b		Band no. 37b
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 123 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Tracking, Tracing and Data Acquisition

Parameter	Descr	ription	Comment
Frequency band	870 - 875.6 MHz		
Radio Service	Mobile		
Application	Short Range Devices Tracking, tracing and data ac	quisition	The frequency band is also used for non-specific SRDs and TTT applications.
	Channel spacing	<= 200 kHz	
	Designation of emission		-
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power	500mW e.r.p.	
Channel access	Duty cycle	<= 2.5% + APC required	\leq 2.5% duty cycle and APC required.
and	Access protocol		For ER-GSM protection (873-875.6MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a
occupation rules	Trans. capacity		maximum transmit on time of 5ms/1s.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ERC REC 70-03 Annex 2c		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Tracking, Tracing and Data Acquisition

Parameter	Descr	iption	Comment
Frequency band	2483.5 - 2500 MHz		
Radio Service	Mobile		-
Application	Short Range Devices Tracking, tracing and data acc MBANS	quisition	 MBANs used indoor only within healthcare facilities. The frequency band is also used for active medical implants.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	<= 3 MHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	ImW e.i.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 10 %	Adequate spectrum sharing mechanisms (e.g. Listen- Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and $\leq 10\%$ duty cycle.
Direction / Separation		L	
Authorisation regime	Exempt from individual license	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 203 ERC REC 70-03 Annex 2d1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Tracking, Tracing and Data Acquisition

Parameter	Descr	iption	Comment
Frequency band	2483.5 - 2500 MHz		
Radio Service	Mobile		
Application	Short Range Devices Tracking, tracing and data acc MBANS	quisition	 MBANs used indoor only within healthcare facilities. The frequency band is also used for active medical implants.
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	<= 3 MHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	10mW e.i.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 2 %	Adequate spectrum sharing mechanisms (e.g. Listen- Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and $\leq 2\%$ duty cycle.
Direction / Separation		L	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 203 ERC REC 70-03 Annex 2d2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Parameter	Descr	iption	Comment
	5725 - 5875 MHz		
	Mobile		
	Land Mobile		
	Short Range Devices		
	Tracking, tracing and data acc	quisition	Wireless Industrial Applications
	WIA	I	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	>= 1 MHz and <= 20 MHz	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	<= 400 mW eirp	
	Duty cycle		APC required
	Access protocol		Adequate spectrum sharing mechanisms (e.g. DFS and
	Trans. capacity		DAA) shall be implemented.
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 258 ERC REC 70-03 Annex 2e		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

SRD

Wideband Data Transmission systems

Parameter	Descr	iption	Comment
Frequency band	2400 - 2483.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Radio LANs		RLAN access, inter-device communication, control of model airplanes, microphones, etc.)
	Channel spacing	No spacing	
Channel /	Designation of emission		The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between
modulation	Modulation / Occupied bandwidth		the various technologies and applications covered by Wideband Data Transmission systems.
	Reference frequency		
T	Output power		100 mW/100 kHz e.i.r.p. density applies when frequency
Transmit power / Power density	Antenna Gain		hopping modulation is used, 10 mW/MHz e.i.r.p. density applies when other types of modulation are used
	Radiated power	100 mW e.i.r.p.	applies when other types of modulation are used
Channel access	Duty cycle	No restriction	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 328 ERC REC 70-03 Annex 3a		Band nr.57c
Remarks	Harmonised radio spectrum for use by short-range devices.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 22 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wideband Data Transmission systems

Parameter	Descr	iption	Comment
Frequency band	5150 - 5350 MHz		Harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of WAS/RLANs (2005/513/EC as amended)
Radio Service	Mobile		Connections between access points in the frequency band of 5 GHz possible.
Application	Short Range Devices Wideband data transmission s	ystems	
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used
Transmit power / Power density	Output power Antenna Gain Radiated power	200 mW Max mean e.i.r.p.	The maximum mean e.i.r.p. density shall be limited to 10mW/MHz in any 1 MHz band.
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	5250 - 5350 MH : Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radiodetermination systems (radars).
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Restricted to indoor use.		
Planned changes			
Reference	Commission Decision 2005/513/EC as amended EN 301 893 ECC/DEC/(04)08		
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H01 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wideband Data Transmission systems

3470 - 5725 MHz Harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of WAS/RLANs (2007/90/EC) Mobile Connections between access points in the frequency band of 5 GHz possible. Short Range Devices Connections between access points in the frequency band of 5 GHz possible. Wideband data transmission systems Presignation of emission Designation of emission Mobile Mobilation / Occupied Presignation of emission Mobilation / Occupied Presignation of emission Reference frequency Presignation of emission Radiated power I W Max mean e.i.r.p. Prower density Presignation of emission Radiated power I W Max mean e.i.r.p. Channel access and occupation rules Prestriction Access protocol Trans. capacity No restriction Access protocol Trans. capacity No restriction	Parameter	Descr	iption	Comment
Connections between access points in the frequency band of 5 GHz possible. Short Range Devices Wideband data transmission systems Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Power density Output power Antenna Gain Radiated power 1 W Max mean e.i.r.p. Channel access and Access protocol		5470 - 5725 MHz		
of 5 GHz possible. Short Range Devices Wideband data transmission systems Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Antenna Gain Radiated power 1 W Max mean e.i.r.p. Duty cycle No restriction Access protocol Fequal detection, operational and response requirements described in EN 301 893 to ensure compatible operation		Mobile		
Wideband data transmission systems Wideband data transmission systems Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Transmit power / Power density Output power Antenna Gain Radiated power 1 W Max mean e.i.r.p. Channel access and Duty cycle No restriction Access protocol Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation				Connections between access points in the frequency band of 5 GHz possible.
Channel spacing The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems. Modulation / Occupied bandwidth The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems. Transmit power / Power density Output power The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band. Channel access and and cover and and response requirements described in EN 301 893 to ensure compatible operation with radiod termination meterme (radow)		Short Range Devices		
Designation of emission The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems. Modulation / Occupied bandwidth Reference frequency Reference frequency The maximum mean e.i.r.p. Motup power Antenna Gain Radiated power 1 W Max mean e.i.r.p. The maximum mean e.i.r.p. SomW/MHz in any 1 MHz band. Channel access and Access protocol No restriction Access protocol Fequal detection, operational and response requirements described in EN 301 893 to ensure compatible operation		Wideband data transmission s	ystems	-
Modulation / Occupied bandwidth sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems. Transmit power / Power density Output power Antenna Gain Radiated power I W Max mean e.i.r.p. The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band. Channel access and Duty cycle No restriction Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation		Channel spacing		
Modulation / Occupied bandwidth the various technologies and applications covered by Wideband Data Transmission systems. Reference frequency Output power Transmit power / Power density Output power Antenna Gain Radiated power I W Max mean e.i.r.p. The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band. Channel access and direction Duty cycle No restriction Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radio dotermination meteres (radow)		Designation of emission		
Output power Output power Antenna Gain The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band. Radiated power 1 W Max mean e.i.r.p. Channel access and and comparison of the power No restriction Access protocol Fequal detection, operational and response requirements described in EN 301 893 to ensure compatible operation				the various technologies and applications covered by
Transmit power / Power density Antenna Gain The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band. Channel access and Duty cycle No restriction Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radio determination metermination metermination metermination metermination		Reference frequency		
Power density Antenna Gain 50mW/MHz in any 1 MHz band. Radiated power 1 W Max mean e.i.r.p. 50mW/MHz in any 1 MHz band. Channel access and Duty cycle No restriction Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation distribution with radied determination mytems (radow) with radied determination mytems (radow)	T 1 / /	Output power		
Radiated power 1 W Max mean e.i.r.p. Channel access and Duty cycle No restriction Access protocol No restriction equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation		Antenna Gain		The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band.
and Access protocol Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radio data minimum (radow)	rower defisity	Radiated power	1 W Max mean e.i.r.p.	
and Access protocol described in EN 301 893 to ensure compatible operation with radio determination systems (radow)	Channel access	Duty cycle	No restriction	- Faual detection operational and response requirements
occupation rules Trans. capacity with radiodetermination systems (radars).		Access protocol		described in EN 301 893 to ensure compatible operation
	occupation rules	Trans. capacity		with radiodetermination systems (radars).
Direction / Separation				
Authorisation regime Exempt from individual licensing		Exempt from individual licensing		
Add. essential requirements				
Freq. planning assumption Indoor as well as outdoor use allowed.		Indoor as well as outdoor use allowed.		
Planned changes	Planned changes			
ReferenceCommission Decision 2007/90/EC EN 301 893 ECC/DEC/(04)08	Reference	EN 301 893		
Remarks	Remarks			
Notification 2012/450/L		2012/450/L		
Equipment class Class 2 Refer to Sub-class H01 (2000/299/EC)	Equipment class	Class 2		Refer to Sub-class H01 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wideband Data Transmission systems

Parameter	Descr	iption	Comment
Frequency band	57000 - 66000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Wideband data transmission s	ystems	
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		The maximum mean e.i.r.p. density is limited to 13 dBm/MHz.
	Radiated power	40 dBm mean e.i.r.p.	
Channel access	Duty cycle	No restriction	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the
and occupation rules	Access protocol	techniques described in harmonised sta	
-	Trans. capacity		under Directive 1999/5/EC must be used.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Fixed outdoor installations are excluded		
Planned changes			
Reference	Decision 2013/752/EU EN 302 567 ERC REC 70-03 Annex 3b		Band nr.75
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		Refer to Sub-class H03 (2000/299/EC)

Normative in accordance to the TCAM RIG II template

SRD

Railway applications

Parameter	Description		Comment
	27.09 - 27.1 MHz		Center fequency : 27095 kHz
	Mobile		Balise tele-powering and down-link (train to ground) systems including Eurobalise and activation of the Loop / Euroloop
	Short Range Devices		Tele-powering and Down-link signal for Balise / Eurobalise. May also be optionnally used for the activation of the Loop / Euroloop.
	Railway applications Eurobalise		
	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 608 ERC REC 70-03 Annex 4c		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

SRD

Railway applications

Parameter	Description		Comment
Frequency band	0.984 - 7.484 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		Balise up-link (ground to train) systems including Eurobalise
Application	Short Range Devices Railway applications Eurobalise		Transmitting only on receipt of a Balise / Eurobalise tele-powering signal from a train.
Channel / modulation	Channel spacing	No spacing	Center frequency : 4232 kHz
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
•	Radiated power	9 dBuA/m @ 10 m	
Channel access	Duty cycle	<=1%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 608 ERC REC 70-03 Annex 4a		Band no. 19
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 109 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template
SRD

Railway applications

Parameter	Descr	iption	Comment
Frequency band	7.3 - 23 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			Loop up-link (ground to train) systems including Euroloop
	Short Range Devices		
Application	Railway applications		
	Euroloop		
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		Center frequency: 13.547 MHz
	Reference frequency		
	Output power		Maximum field strength specified in a bandwidth of 10 kHz,
Transmit power / Power density	Antenna Gain		spatially averaged over any 200m length of the loop. Transmitting only in presence of trains.
I ower density	Radiated power	-7 dBuA/m @ 10 m	Spread Spectrum Signal, Code Length: 472 chips.
Channel access	Duty cycle	No Restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 609 ERC REC 70-03 Annex 4b		Band no. 23
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 110 (2000/299/EC) (Duty cycle <=1%)

Normative in accordance to the *TCAM RIG II* template

SRD

Railway applications

Parameter	Descr	iption	Comment
Frequency band	76000 - 77000 MHz		
Radio Service	Mobile		-
Application	Railway applications		 Obstruction / Vehicle detection via radar sensor at railway level crossings. Frequency band is also used for RTTT applications.
	Channel spacing	No spacing	
	Designation of emission		-
Channel / modulation	Modulation / Occupied bandwidth		-
	Reference frequency		
Transmit power /	Output power		50 dBm average power or 23.5 dBm average power for
Power density	Antenna Gain		- pulse radar.
-	Radiated power	55 dBm peak e.i.r.p.	
Channel access	Duty cycle	No Restriction	_
and	Access protocol		_
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 091 ERC REC 70-03 Annex 4d		
Remarks			
Notification number	2013/32/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template
Informative in accordance to the *TCAM RIG II* template

Version of: 01 May 2013

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	ription	Comment
Frequency band	870 - 875.8 MHz		
Radio Service	Mobile		
Application	Short Range Devices TTT		This frequency band is also used for non-specific SRDs and Tracking, Tracing and Data Acquisition systems.
	Channel spacing	<= 500 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		500 mW restricted to vehicle-to-vehicle applications.
Transmit power /	Antenna Gain		100 mW is restricted to in-vehicle applications. Adaptive Power Control (APC) is required.
Power density	Radiated power	500 mW e.r.p. 100 mW e.r.p.	The APC is able to reduce a link's transmit power from its maximum to $\leq 5 \text{ mW}$
Channel access	Duty cycle	<= 0.1 %	For ER-GSM protection (873-875.8MHz, where applicable),
and	Access protocol		the duty cycle is limited to $\leq 0.01\%$ and limited to a
occupation rules	Trans. capacity		maximum transmit on-time of 5ms/1s.
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 5a		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	5795 - 5805 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU) for 2 W e.i.r.p.
	Mobile		
	Short Range Devices		
	TTT		Intended for road to vehicle systems, particularly (but not exclusively) road toll systems.
	Channel spacing		
	Designation of emission		Recommended for 5 MHz channel spacing systems with the
	Modulation / Occupied bandwidth		frequencies: 5797.5 MHz and 5802.5 MHz. For 10 MHz channel spacing system 5800 MHz.
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		The use of 8 W e.i.r.p. allows for 1 Mbit/s. 2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s
Power density	Radiated power	2 W e.i.r.p. 8 W e.i.r.p.	uplink and for low data rates (31 kbit/s).
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens License may be required for 8		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EC Directive 2004/52/EC, EC Deision 2013/752/EU EN 300 674 ERC REC 70-03 Annex 5b1		Band no. 62 Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		Refer to Sub-class H05 (2000/299/EC) (2W eirp)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	iption	Comment
	5805 - 5815 MHz		
	Mobile		
I			
	Short Range Devices		
1	Channel spacing		
	Designation of emission		Recommended for 5 MHz channel spacing systems with the
	Modulation / Occupied bandwidth		frequencies: 5807.5 MHz and 5812.5 MHz. For 10 MHz channel spacing system 5810 MHz.
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		The use of 8 W e.i.r.p. allows for 1 Mbit/s. 2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s
Power density	Radiated power	2 W e.i.r.p. 8 W e.i.r.p.	uplink and for low data rates (31 kbit/s).
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licence required.		5 805 - 5 815 MHz on a national basis for multi-lane road junctions, particularly, but not exclusively road toll systems.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EC Directive 2004/52/EC EN 300 674 ERC REC 70-03 Annex 5b2		Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 108 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	ription	Comment
	5725 - 5875 MHz		
	Mobile		
	Short Range Devices		
	<i>TTT</i>		
		500.111	
	Channel spacing	500 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	-14 dBm e.i.r.p.	
	Duty cycle		
	Access protocol		EN 12253
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EC Directive 2004/52/EC EN 300 674		Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)
Remarks			
Notification number	2014/450/L		
Equipment class	Class 1		Refer to Sub-class 108 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	iption	Comment
	63000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Shout Dayoo Daviosa		
	Short Range Devices		Vehicle to vehicle, vehicle to infrastructure, infrastructur to
			vehicle
	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		Spectrum Access and mitigation requirement to be determined.
	Radiated power	40 dBm e.i.r.p.	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 686		Band no.77
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Subclass 105 (Decision 2000/299/CE)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	ription	Comment
Frequency band	76000 - 77000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT Vehicle and infrastructure radar		
	Channel spacing	No spacing	
~	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	55 dBm peak e.i.r.p.;50 dBm mean;23.5 dBm mean for pulse radar	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 091 ERC REC 70-03 Annex 5f1, ECC DEC (02)01		Band no. 79
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to subclass 50

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	iption	Comment
Frequency band	76000 - 77000 MHz		
Radio Service	Mobile Land Mobile		
Application	Short Range Devices TTT		For obstacle detection radars for rotorcraft use.
	Channel spacing	See ECC Decision	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	See ECC Decision	
Channel access	Duty cycle	See ECC Decision	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 091 ERC REC 70-03 Annex 5f2, ECC DEC (16)01		
Remarks			
Notification number			
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description	Comment
	21650 - 26650 MHz	Harmonisation of radio spectrum in the 24 GHz range for the time-limited use by automotive short-range radar equipment in the Community. (2005/50/EC amended by 2011/485/EU)
	Mobile	
	Short Range Devices TTT	New SRR equipment may only be placed onto the market
	SRR	until 01 July 2013.
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	Detailed requirements in related ECC decision.
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempt from individual licensing	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	Decision 2011/485/EU ERC REC 70-03 Annex c1, ECC DEC (04)10 EN 302 288	
Remarks		
Notification number	2009/0375/L	
Equipment class	Class 1	Refer to Sub-class 52 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descriptio	n	Comment
	24250 - 26650 MHz		Harmonisation of radio spectrum in the 24 GHz range for the time-limited use by automotive short-range radar equipment in the Community. (2005/50/EC amended by 2011/485/EU)
	Mobile		
	Short Range Devices TTT		SRR equipment may only be placed onto the market until 01 July 2018. This date is extended by 4 years for SRR mounted on motor vehicles, with a conformity compliance before 1 January 2018.
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		Detailed requirements in related ECC decision.
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2011/485/EU ERC REC 70-03 Annex 1c2, ECC DEC (04)10 EN 302 288		
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Sub-class 52 + 111 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	77000 - 81000 MHz		Harmonisation of radio spectrum in the 79 GHz range for the use of automotive short-range radar equipment in the Community. (2004/545/EU)
	Mobile		
	Short Range Devices		
	TTT		
1	SRR		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
-	Reference frequency		
	Output power		
	Antenna Gain		Detailed requirements in related ECC decision.
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2004/545/EU EN 302 264 ERC REC 70-03 Annex 5g, ECC DEC (04)03		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 53 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	iption	Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Sharet Davie a Davie an		
	Short Range Devices TTT		For vehicle radars
			Tor venicie rudurs
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	100 mW e.i.r.p.	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5d1		Band no. 66
Remarks			
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 101 (Commission Decision 2000/299/CE)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	ription	Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
			-
	Channel spacing		
	Designation of emission		-
	Modulation / Occupied		-
	bandwidth		_
	Reference frequency		
	Output power	a) 0.1mW e.i.r.p. b) 100mW e.i.r.p.	-
	Antenna Gain		-
	Radiated power		
	Duty cycle		
	Access protocol		See detailed requirements for Spectrum access and mitigation requirement in related ERC Recommendation.
	Trans. capacity		- · ·
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential			
requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5d2,3,4		Band no. 69a + 69b
Remarks			
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 102 (Decision 2000/299/CE) (0.1mW eirp) Refer to Subclass 103 (Decision 2000/299/CE) (100mW eirp)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
	24150 - 24250 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices TTT		For vehicle radars
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	100mW e.i.r.p.	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5d5		Band no. 70b
Remarks			
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 104 (Decision 2000/299/CE)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	TTT		For automotive radars
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	-11 dBm e.i.r.p.	
Power density	Antenna Gain		
	Radiated power		
Channel access	Duty cycle	<= 0.25%/s/25 MHz	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5e1		Band no. 71
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	TTT		For automotive radars
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power	-8 dBm e.i.r.p.	
Transmit power / Power density	Antenna Gain		
	Radiated power		
Channel access	Duty cycle	<= 1.5%/s/5 MHz	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5e3		Band no. 73
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Subclass 113 (Decision 2000/299/CE)

Normative in accordance to the *TCAM RIG II* template

SRD

Transport and Traffic Telematics (TTT)

Parameter	Descr	iption	Comment
	24250 - 24500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices TTT		For automotive radars
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	a) 20 dBm eirp b) 16 dBm eirp	
Power density	Antenna Gain		
	Radiated power		
Channel access	Duty cycle	a) <= 5.6%/s/25 MHz b) <= 2.3%/s/25 MHz	
and occupation rules	Access protocol		
_	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5e2		Band no. 72
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Subclass 112 (Decision 2000/299/CE)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
Frequency band	2400 - 2483.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Radiodetermination application	ons	
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 6c, ERC DEC (01)08		Band no.57b
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 26 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Desci	ription	Comment
Frequency band	9200 - 9500 MHz		
Radio Service	Mobile		
	Short Range Devices		
Application	Radiodetermination application	ons	
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6h		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

L

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Desci	ription	Comment
Frequency band	9500 - 9975 MHz		
Radio Service	Mobile		
	Short Range Devices		
Application	Radiodetermination application	ons	
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6i		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

L

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	ription	Comment
Frequency band	10.5 - 10.6 GHz		
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applicatio	ons	
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens Power Limited to 25 mW e.i.r.		To avoid interferences with the fixed service (ERC Report 47)
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	13400 - 14000 MHz		
	Mobile		
Radio Service			
	Short Range Devices		
Application	Radiodetermination application	ons	
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power	25 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6k		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
Frequency band	24050 - 24250 MHz		
Radio Service	Mobile		
Application	Radiodetermination applications		The frequency band 24.0–24.25 GHz is identified with the same emission parameters in Annex 1 band j of the ERC REC 70-03.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
-	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6m		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
Frequency band	4500 - 7000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Radiodetermination application	ons	
	TLPR		
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		The power limit is the radiated emission outside an enclosed
Transmit power / Power density	Antenna Gain		tank structure. The maximum emission inside an enclosed tank structure is
I ower density	Radiated power	-41.3 dBm/MHz e.i.r.p.	24 dBm e.i.r.p.
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f1		Band no.60
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 89 (2000/299/EC)
-yupment clubs			

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
Frequency band	8500 - 10600 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applicatio TLPR	ms	
	Channel spacing	No spacing	
	Designation of emission		-
Channel / modulation	Modulation / Occupied bandwidth		-
	Reference frequency		
	Output power		The power limit is the radiated emission outside an enclosed
Tuonamit norman (Antenna Gain		tank structure. The maximum emission inside an enclosed tank structure is
Transmit power / Power density	Radiated power	-41.3 dBm/MHz e.i.r.p.	30 dBm e.i.r.p. For the frequency range 10.6 - 10.7 GHz, the radiated unwanted emissions outside the tank enclosure shall be less than -60 dBm/MHz e.i.r.p.
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f2		Band no.64
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 90 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
Frequency band	24050 - 27000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applicatio TLPR	ons	
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		The power limit is the radiated emission outside an enclosed
Transmit power / Power density	Antenna Gain		tank structure. The maximum emission inside an enclosed tank structure is
	Radiated power	-41.3 dBm/MHz e.i.r.p.	43 dBm e.i.r.p
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f3		Band no.68
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 91 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
Frequency band	57000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applicatio TLPR	ns	
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		The power limit is the radiated emission outside an enclosed
Transmit power / Power density	Antenna Gain		tank structure. The maximum emission inside an enclosed tank structure is
	Radiated power	-41.3 dBm/MHz e.i.r.p.	43 dBm e.i.r.p
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f4		Band no.74b
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 92 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
Frequency band	75000 - 85000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Radiodetermination application	ons	
	TLPR	[
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
-	Output power		The power limit is the radiated emission outside an enclosed
Transmit power / Power density	Antenna Gain		tank structure. The maximum emission inside an enclosed tank structure is
	Radiated power	-41.3 dBm/MHz e.i.r.p.	43 dBm e.i.r.p.
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f5		Band no.78b
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 93 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	ription	Comment
	6000 - 8500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Radiodetermination application	ons	
	LPR		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		See detail requirement in related ECC decision
	Reference frequency		-
	Output power	7 dBm/50 MHz peak eirp ; -33 dBm/MHz mean eirp	
	Antenna Gain		See detail requirement in related ECC decision.
	Radiated power		
	Duty cycle		_
	Access protocol		See detail requirement in related ECC decision
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g1, ECC/DEC/(11)02		Band no. 63
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H06 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Description		Comment
	24050 - 26500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Radiodetermination application	ons	
	LPR	r	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		See detail requirement in related ECC decision
	Reference frequency		-
	Output power	26 dBm/50 MHz peak eirp; -14 dBm/MHz mean eirp	
	Antenna Gain		See detail requirement in related ECC decision
	Radiated power		
	Duty cycle		
	Access protocol		See detail requirement in related ECC decision
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g2, ECC/DEC/(11)02		Band no. 67
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H07 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	iption	Comment
	57000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Radiodetermination application	<i>ms</i>	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		See detail requirement in related ECC decision
	Reference frequency		
	Output power	35 dBm/50 MHz peak eirp; -2 dBm/MHz mean eirp	
	Antenna Gain		See detail requirement in related ECC decision
	Radiated power		
	Duty cycle		
	Access protocol		See detail requirement in related ECC decision
1	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g3, ECC/DEC/(11)02		Band no. 74c
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Sub-class 127 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Description		Comment
	75000 - 85000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
	Short Range Devices		
	Radiodetermination application	ons	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		See detail requirement in related ECC decision
	bandwidth		
	Reference frequency		
	Output power	34 dBm/50 MHz peak eirp; -3 dBm/MHz mean eirp	
	Antenna Gain		See detail requirement in related ECC decision
	Radiated power		
	Duty cycle		
	Access protocol		See detail requirement in related ECC decision
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g4, ECC/DEC/(11)02		Band no. 78a
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H08 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Descr	ription	Comment
Frequency band	17100 - 17300 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		-
Application	Short Range Devices Radiodetermination applicatio GBSAR	ons	-
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T1 (Output power		- Specific requirements for the radar antenna pattern and for
Transmit power / Power density	Antenna Gain		the implementation of DAA technique apply as described in
10001 delibity	Radiated power	+26 dBm e.i.r.p.	<i>EN 300440.</i>
Channel access	Duty cycle	Detect and Avoid (DAA)	Techniques to access spectrum and mitigate interference
and	Access protocol		that provide at least equivalent performance to the techniques described in harmonised standards adopted
occupation rules	Trans. capacity		under Directive 1999/5/EC must be used.
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 6l		Band no.65
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 88 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Description	Comment
	30 - 12400 MHz	
	Mobile	
-		
	Short Range Devices	
	UWB applications	
	GPR/WPR	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	Detailed requirements in related ECC decision
	Radiated power	Defined requirements in related LCC decision
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction /		
Separation		
Authorisation		
regime		
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 302 066 ERC REC 70-03 Annex 6q, ECC/DEC/(06)08	
Remarks		
Notification number	2009/0375/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

SRD

Radiodetermination applications

Parameter	Description	Comment
	3100 - 4800 MHz	
	Mobile	
	Land Mobile	
	Short Range Devices	
	Tracking, tracing and data acquisition	LT2
	LT2	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	Detailed requirements in related ECC recommendation
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	The use of LT2 devices is subjet to declaration	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 302 065 ERC REC 70-03 Annex 6s1, ECC/REC/(11)09	
Remarks		
Notification number	2016/7/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template
SRD

Radiodetermination applications

Parameter	Description	Comment
	3100 - 4800 MHz	
	Mobile	
	Land Mobile	
	Short Range Devices	-
	Tracking, tracing and data acquisition	LAES
	LAES	
	Channel spacing	-
	Designation of emission	_
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	Detailed requirements in related ECC recommendation
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	The use of LAES devices is subjet to declaration	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 302 065 ERC REC 70-03 Annex 6s2, ECC/REC/(11)10	
Remarks		
Notification number	2016/7/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

SRD

Alarms

Parameter	Descr	iption	Comment
Frequency band			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	25 kHz	- The whole frequency band may also be used as one single channel for high speed data transmissions.
Transmit power / Power density	Output power Antenna Gain Radiated power	10 mW e.r.p.	-
Channel access and occupation rules	Duty cycle <1% Access protocol Trans. capacity		-
Direction / Separation		L	
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7a		Band nr.49
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 32 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Alarms

Parameter	Descr	iption	Comment
Frequency band			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
Channel /	Channel spacing Designation of emission	25 kHz	
modulation	Modulation / Occupied bandwidth Reference frequency		
Transmit power / Power density	Output power Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	< 0.1 %	
and occupation rules	Access protocol Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7c		Band nr.52
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 33 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

SRD

Alarms

Parameter	Descr	iption	Comment
Frequency band	869.3 - 869.4 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		-
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
	Channel spacing Designation of emission	25 kHz	-
Channel / modulation	Modulation / Occupied bandwidth		-
	Reference frequency		
Transmit power /	Output power		-
Power density	Antenna Gain		-
	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	<=1 %	-
and occupation rules	Access protocol Trans. capacity		-
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7d		Band nr.53
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 72 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Alarms

Parameter	Descr	iption	Comment
Frequency band			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
Channel /	Channel spacing Designation of emission Modulation / Occupied	25 kHz	
modulation	bandwidth Reference frequency		
Transmit power / Power density	Output power Antenna Gain Radiated power	25 mW e.r.p.	
Channel access and occupation rules	National power 25 mw e.r.p. Duty cycle <10 % Access protocol Trans. capacity		
Direction / Separation	Trans, capacity		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7e		Band nr.55
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 34 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Alarms

Parameter	Descr	iption	Comment
Frequency band			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms Social alarms		Low duty cycle/high reliability devices. Social alarm devices are used to assist elderly or disabled people living at home when they are in distress
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	25 kHz	-
Transmit power / Power density	Output power Antenna Gain Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Number 10 mm e.r.p. Duty cycle <0.1 % Access protocol Trans. capacity		
Direction / Separation		L	
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7b		Band nr.51
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 35 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Model Control

Parameter	Descr	iption	Comment
Frequency band	26.995 - 26.995 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Model control		This frequency band is also identified for non-specific applications with a duty cycle of $0,1$ %.
	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a1		Band no.29
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 94 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

SRD

Model Control

Parameter	Descr	iption	Comment
Frequency band	27.045 - 27.045 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Model control		This frequency band is also identified for non-specific applications with a duty cycle of $0,1$ %.
	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a2		Band no.30
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 95 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

SRD

Model Control

Parameter	Description		Comment
Frequency band	27.095 - 27.095 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Model control		This frequency band is also identified for non-specific applications with a duty cycle of $0,1$ %.
	Channel spacing	10 kHz	
Channel /	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a3		Band no.31
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 96 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

SRD

Model Control

Parameter	Descr	iption	Comment
Frequency band	27.145 - 27.145 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		
Application	Model control		This frequency band is also identified for non-specific applications with a duty cycle of $0,1$ %.
	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a4		Band no.32
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 97 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

SRD

Model Control

Parameter	Descr	iption	Comment
Frequency band	27.195 - 27.195 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Model control		This frequency band is also identified for non-specific applications with a duty cycle of $0,1$ %.
	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a5		Band no.33
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 98 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the TCAM RIG II template

SRD

Model Control

Parameter	Descr	iption	Comment
Frequency band	40.665 - 40.665 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c1, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Model Control

Parameter	Descr	iption	Comment
Frequency band	40.675 - 40.675 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
r.	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power Antenna Gain		
Power density	Radiated power	100 mW e.r.p.	
	Duty cycle	No restriction	
Channel access and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c2, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template
Informative in accordance to the *TCAM RIG II* template

Version of: 30 June 2005

SRD

Model Control

Parameter	Descr	iption	Comment
Frequency band	40.685 - 40.685 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
	Channel spacing	10 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c3, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template
Informative in accordance to the *TCAM RIG II* template

Version of: 30 June 2005

SRD

Model Control

Parameter	Descr	ription	Comment
Frequency band	40.695 - 40.695 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power Antenna Gain		
Tower density	Radiated power	100 mW e.r.p.	
Channel access	Duty cycle	No restriction	_
and	Access protocol		-
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c4, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

SRD

Model Control / Flying models

Parameter	Descr	iption	Comment
Frequency band	34.995 - 35.225 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control Flying model control		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	10 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation		•	
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8b, ERC DEC (01)11		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	0.009 - 0.09 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
-	Output power		
Transmit power / Power density	Antenna Gain		
1 0 // 01 delibity	Radiated power	72 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9a1		Band nr. 1,3,4,5,6,7,8
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 36,37,39,40a.b.c.d 2000/299/EC

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	0.09 - 0.119 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
•	Radiated power	42 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9a2		Band nr.9
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 40e (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	0.119 - 0.135 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers ofother radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	66 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9a3		Band nr. 10,11,12
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 41,42a,42b (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	0.135 - 0.14 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9b		Band nr.13
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Subclass 106 (Decision 2000/299/CE)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	0.14 - 0.1485 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
-	Radiated power	37.7 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9c		Band nr.14
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 73 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	6.765 - 6.795 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9f		Band nr.22a
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 44 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	7.4 - 8.8 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	9 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9g		Band no.24
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 45 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.553 - 13.567 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		Users should be aware that emissions from inductive
Application	Inductive applications		applications could cause interference to nearby receivers of other radio services.
		r	oiner ruuto services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (01)14		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330, EN 302 291 ERC REC 70-03 Annex 9j		Band no.27a
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 116 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Desci	ription	Comment
Frequency band	13.41 - 13.553 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power Antenna Gain		
Power density	Radiated power	9 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.4		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.567 - 13.71 MHz		
Radio Service	Mobile		
Application			For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	No spacing	-
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	9 dBuA/m @ 10m	-
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	-
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.5		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.11 - 13.41 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.3		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	ription	Comment
Frequency band	13.71 - 14.01 MHz		
Radio Service	Mobile		
Application			For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	-3.5 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.6		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	12.66 - 13.11 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
rower density	Radiated power	-10m dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	ription	Comment
Frequency band	14.01 - 14.46 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-10m dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.7		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	11.81 - 12.66 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-16m dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	14.46 - 15.31 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-16m dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.8		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.553 - 13.567 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID AND EAS ONLY ! Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	60 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330, EN 302 291 ERC REC 70-03 Annex 9j2		Band no. 27b
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 79 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.46 - 13.553 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	27 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.4		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.567 - 13.66 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	No spacing	-
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	27 dBuA/m @ 10m	-
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	-
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.5		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	ription	Comment
Frequency band	13.36 - 13.46 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency
pp			band defined in the interface "LUX/RI SRD-A9 11".
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	Linear transition from 27 to -3.5 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.3		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template
SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.66 - 13.76 MHz		
Radio Service	Mobile		
	Short Range Devices		FOR RFID ONLY ! Only in connection with the frequency
Application	Inductive applications		band defined in the interface "LUX/RI SRD-A9 11".
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	Linear transition from 27 to -3.5 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.6		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.11 - 13.36 MHz		
Radio Service	Mobile		
Application			FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	-3.5 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	13.76 - 14.01 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.7		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	12.66 - 13.11 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	14.01 - 14.46 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No restriction	
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.8		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	26.957 - 27.283 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
_	Short Range Devices		Users should be aware that emissions from inductive
Application	Inductive applications		applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
-	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9i		Band no.28a
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 115 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	10.2 - 11 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		Users should be aware that emissions from inductive
Application	Inductive applications		applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	9dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9h		Band no.25
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 78 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	3.155 - 3.4 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
T (Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	13.5 dBuA/m @ 10m	
Channel access	Duty cycle	No restriction	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9e		Band no.20
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 76 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	0.1485 - 5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	-
Transmit power / Power density	Output power Antenna Gain Radiated power	-15 dBµA/m @ 10 m	The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-15 dB μ A/m in a bandwidth of 10 kHz).
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No Restriction	-
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9k1		Band nr.15
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 74 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	5 - 30 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-20 dBµA/m @ 10 m	The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-20 dB μ A/m in a bandwidth of 10 kHz).
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No Restriction	
Direction / Separation		I	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9k2		Band no.21
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 77 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Inductive applications

Parameter	Descr	iption	Comment
Frequency band	0.4 - 0.6 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only !
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power	-8 dBµA/m @ 10 m	The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz measured at the center frequency whilst keeping the density limit (-8 dB μ A/m in a bandwidth of 10 kHz). These systems should operate with a minimum operating bandwidth of 30 kHz.
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	No Restriction	
Direction / Separation			
Authorisation regime	Exempt from individual license	ing	
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9d		Band nr.17
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 75 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	ription	Comment
Frequency band	29.7 - 47 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Radio microphones
	Channel spacing	50 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Frequency band of 34.995 - 35.225 MHz shall not be used. (Only for flying models)		
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10a		
Remarks			
Notification number	2005/347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	ription	Comment
Frequency band	173.965 - 216 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		
	Channel spacing	50 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
r ower density	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	<= 50kHz	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10d, ECC Report 230		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template Informative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	863 - 865 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		Radio microphones including wireless audio and multimedia streaming devices
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 357, EN 300 422 ERC REC 70-03 Annex 10g		Band no. 46b (wireless audio and multimedia streaming devices)
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 48 (2000/299/EC)

Normative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	916.1 - 916.5 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
	Channel spacing	<= 400 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
i ower density	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	<= 25%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	917.3 - 917.7 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
	Channel spacing	<= 400 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
i ower density	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	<= 25%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template Informative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	918.5 - 918.9 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
	Channel spacing	<= 400 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
i ower density	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	<= 25%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h3		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	919.7 - 920.1 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
	Channel spacing	<= 400 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
i ower density	Radiated power	10 mW e.r.p.	
Channel access	Duty cycle	<= 25%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h4		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
	174 - 216 MHz		On a tuning range basis
	Mobile		
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	50 mW e.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10e		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	470 - 786 MHz		On a tuning range basis
Radio Service			THE FREQUENCY BAND OF 694-790 MHz WILL BE ALLOCATED TO THE MOBILE SERVICE IN NEAR FUTURE!
Application	Short Range Devices Radio microphones and ALD Radio microphones		
	Channel spacing	No spacing	
Channel /	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	50 mW e.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10f1		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	786 - 789 MHz		On a tuning range basis
Radio Service			THE FREQUENCY BAND OF 694-790 MHz WILL BE ALLOCATED TO THE MOBILE SERVICE IN NEAR FUTURE!
Application	Short Range Devices Radio microphones and ALD Radio microphones		
	Channel spacing	No spacing	
	Designation of emission		See technical conditions for PMSE (including radio
Channel / modulation	Modulation / Occupied bandwidth		microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
I ower defisity	Radiated power	12mW e.r.p.	-
Channel access	Duty cycle	up to 100%	-
and	Access protocol		_
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10f2		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
			Harmonised radio spectrum for use by PMSE (2014/641/EU)
	Mobile		
	Short Range Devices Radio microphones and ALD		
	Radio microphones		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		100 mW restricted to body worn microphones.
	Antenna Gain		See technical conditions for PMSE (including radio
	Radiated power	20mW e.i.r.p. 100mW e.i.r.p.	<i>microphones) in Annex 3 of Decision ECC/DEC/(09)03</i> <i>section 3.1.</i>
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10f3		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
			Harmonised radio spectrum for use by PMSE (2014/641/EU)
	Mobile		
1			
	Short Range Devices		
	Radio microphones and ALD		
	Radio microphones	200.111	
	Channel spacing	200 kHz	-
	Designation of emission		See technical conditions for PMSE (including radio
	Modulation / Occupied bandwidth		<i>microphones) in Annex 3 of Decision ECC/DEC/(09)03</i> <i>section 3.1.</i>
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	100mW e.i.r.p.	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10f4		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band			Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		50 mW e.i.r.p. restricted to body worn microphones.
Power density	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10j1		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	1795 - 1800 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		The frequency band is also used for wireless audio applications
	Channel spacing	No spacing	
Channell	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		50 mW e.i.r.p. restricted to body worn microphones.
Power density	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10j2		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template Informative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	1800 - 1804.8 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied	No spacing	
	bandwidth Reference frequency		
Transmit power / Power density	Output power Antenna Gain		50 mW e.i.r.p. restricted to body worn microphones.
	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle Access protocol	up to 100%	
Direction / Separation	Trans. capacity		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10j3		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	169.4 - 169.475 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Public hearing aids		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	Max 50 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	500 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	up to 100%	
Direction / Separation		I	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC (05)02; ERC REC 70-03 Annex 10c2 EN 300 422		Band no. 37a
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 68 (2000/299/EC) (10mW erp)

Normative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	169.4875 - 169.5875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Public hearing aids		
	Channel spacing	Max 50 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	500 mW e.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC (05)02; ERC REC 70-03 Annex 10c4 EN 300 422		Band no. 39a
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 64 (2000/299/EC) (10mW erp)

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	ription	Comment
Frequency band	169.6 - 174 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Aids for hearing impaired		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	Max 50 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	up to 100%	
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10b		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	1492 - 1518 MHz		
Radio Service			THE FREQUENCY BAND OF 1492-1518 MHz IS SUBJECT TO BE HARMONISED FOR IMT SERVICES IN FUTURE AND FOR THIS REASON NO MORE AVAILABLE FOR RADIO MICROPHONES.
Application	Short Range Devices Radio microphones and ALD Radio microphones		
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	50 mW e.i.r.p.	
Channel access	Duty cycle	up to 100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption	Restricted to indoor use		
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10i		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Descr	iption	Comment
Frequency band	87.5 - 108 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile Land Mobile		
Application	Short Range Devices Radio microphones and ALD		Low power FM transmitters
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	max. 200 kHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	50 nW e.r.p.	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	up to 100%	
Direction / Separation	r		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 357 ERC REC 70-03 Annex 10a1		Band no.36
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 86 (2000/299/EC)

Normative in accordance to the TCAM RIG II template

SRD

Radio frequency identification applications

Parameter	Descr	iption	Comment
Frequency band	2446 - 2454 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices RFID		
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	$\leq = 500 mW e.i.r.p.$	
Channel access	Duty cycle	No requirement	
and occupation rules	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 11c1		Band no. 58
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Subclass 100(Commission Decision 2000/299/CE)

Normative in accordance to the TCAM RIG II template

SRD

Radio frequency identification applications

Parameter	Descr	iption	Comment
Frequency band	2446 - 2454 MHz		
Radio Service	Mobile		
Application	Short Range Devices RFID		
	Channel spacing	No spacing	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	> 500mW - 4W e.i.r.p	
Channel access	Duty cycle	<= 15%	Power levels above 500 mW are restricted to use inside the
and	Access protocol		boundaries of a building and the duty cycle of all transmissions shall in this case be <= 15% in any 200ms
occupation rules	Trans. capacity		period (30ms on /170ms off)
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 11c2		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the TCAM RIG II template

SRD

Radio frequency	<i>identification</i>	applications
Radio nequency	lucilitication	applications

Parameter	Descr	iption	Comment
	865 - 865.6 MHz		Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)
	Mobile		
	Short Range Devices		
	RFID		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		Center frequencies : 864.9 + (0.2 * channel number) Channel numbers : 1-3
	Reference frequency		
	Output power	100 mW e.r.p.	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		Frequency hopping or other spread spectrum techniques shall not be used.
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual license	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2006/804/EC EN 302 208 ERC REC 70-03 Annex 11a1		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 56 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radio frequency	<i>identification</i>	applications
Radio nequency	lucilitication	applications

Parameter	Description		Comment
	865.6 - 867.6 MHz		Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)
	Mobile		
	Short Range Devices		
	RFID		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		Center frequencies : 864.9 + (0.2 * channel number) Channel numbers : 4-13
	Reference frequency		
	Output power	2 W e.r.p.	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		Frequency hopping or other spread spectrum techniques shall not be used.
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2006/804/EC EN 302 208 ERC REC 70-03 Annex 11a2		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 56 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Radio frequency	identification	applications
Radio nequency	lucilitication	applications

Parameter	Description		Comment
	867.6 - 868 MHz		Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)
	Mobile		
	Short Range Devices RFID		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		Center frequencies : 864.9 + (0.2 * channel number) Channel numbers : 4-15
	Reference frequency		
	Output power	500 mW e.r.p.	
	Antenna Gain		
	Radiated power		
	Duty cycle		Frequency hopping or other spread spectrum techniques
	Access protocol		shall not be used.
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2006/804/EC EN 302 208 ERC REC 70-03 Annex 11a3		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 56 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template
SRD

Radio frequency identification applications

Parameter	Descr	iption	Comment
	915 - 921 MHz		
	Mobile		_
			_
ц			
	Short Range Devices		The frequency band is also used for non-specific SRDs and radio microphones.
	RFID		-
			Interrogators only allowed for following channels: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz
	Channel spacing	<= 400 kHz	_
	Designation of emission		_
	Modulation / Occupied bandwidth		
	Reference frequency		-
	Output power	4 W e.r.p.	
	Antenna Gain		 Operation only when necessary to perform the intended operation, i.e. when RFID tags are expected to be present.
	Radiated power		- operation, i.e. when hi ib lags are expected to be present.
	Duty cycle		
	Access protocol		<i>For ER-GSM protection (918-921 MHz, where applicable),</i> <i>DAA is required.</i>
	Trans. capacity		- Din is required.
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 208 ERC REC 70-03 Annex 11b		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Radio frequency identification applications

Parameter	Description		Comment
	865 - 868 MHz		
	Mobile		
	Land Mobile		
	Short Range Devices		
	RFID		
		1	
	Channel spacing	200 kHz	
	Designation of emission		Four autorised channels: 865.7, 866.3, 866.9 and
	Modulation / Occupied bandwidth		867.5 MHz
	Reference frequency		
	Output power	2W e.r.p.	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 208 ERC REC 70-03 Annex 11a		
Remarks			
Notification number			
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band	402 - 405 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
Application	Short Range Devices Active medical implants		
	ULP-AMI		
	Channel spacing	25 kHz	
Channel /	Designation of emission		Individual transmitters may combine adjacent channels for
modulation	Modulation / Occupied bandwidth		increased bandwidth up to 300 kHz.
	Reference frequency		
	Output power		Other techniques to access spectrum or mitigate
T (Antenna Gain		interference, including bandwidths greater than 300 kHz, can be used provided they result at least in an equivalent
Transmit power / Power density	Radiated power	25 uW e.r.p.	performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC to ensure compatible operation with the other users and in particular with meteorological radiosondes.
Channel access	Duty cycle	No restriction	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 839		Band no.42 Council Directive 90/385/EEC
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 47 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band	401 - 402 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AMI		
Channel / modulation	Channel spacing 25 kHz Designation of emission Modulation / Occupied bandwidth		Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz. Due to the limited available spectrum of 1 MHz, a maximum bandwidth of 100 kHz is proposed for these bands to ensure that several users could access the band concurrently.
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	25 uW e.r.p.	
Channel access and occupation rules	No restriction for LBT, otherwise <= 0.1%		Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.
Direction / Separation		I	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 537		Band no.41
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 83 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band	405 - 406 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		-
Application	Short Range Devices Active medical implants UI.P-AMI		-
Channel / modulation	Channel spacing 25 kHz Designation of emission Modulation / Occupied bandwidth		Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz. Due to the limited available spectrum of 1 MHz, a maximum bandwidth of 100 kHz is proposed for these bands to ensure that several users could access the band
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	25 uW e.r.p.	concurrently.
Channel access and occupation rules	Radiated power 25 uw e.r.p. Duty cycle No restriction for LBT, otherwise <= 0.1% Access protocol Trans. capacity		Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.
Direction / Separation		I	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 537		Band no.43
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 84 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band			Harmonised radio spectrum for use by short-range devices (2013/752/EU)
	Mobile		
Radio Service			
	Short Range Devices		This application is for ultra low power active medical
Application	Active medical implants		implants systems using inductive loop techniques for
	ULP-AMI		telemetry purposes.
	Channel spacing	No spacing	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
rower density	Radiated power	30 dBuA/m @ 10m	
Channel access	Duty cycle	<= 10 %	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 195 ERC REC 70-03 Annex 12a		Band no.2
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 81 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band	0.315 - 0.6 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AID		
Channel /	Channel spacing Designation of emission Modulation / Occupied	No spacing	
modulation	bandwidth Reference frequency		
Transmit power /	Output power Antenna Gain		
Power density	Radiated power	-5 dBuA/m @ 10m	
Channel access	Duty cycle	10 %	
and occupation rules	Access protocol Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 536 ERC REC 70-03 Annex 12b		Band no.16
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 85 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band	30 - 37.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-MMI		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	
Transmit power / Power density	Output power Antenna Gain Radiated power 1 mW e.r.p.		
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	<= 10 %	
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 510 ERC REC 70-03 Annex 12d		Band no.34
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 82 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band	12.5 - 20 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AID		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	No spacing	-
Transmit power / Power density	Output power Antenna Gain Radiated power -7 dBuA/m @ 10m		-
Channel access and occupation rules	Duty cycle < 10 % Access protocol Trans. capacity		-
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Llimited to indoor only applications.		
Planned changes			
Reference	2013/752/EU EN 300 330 ERC REC 70-03 Annex 12c		Band no.26
Remarks			
Notification number	2010/708/L		
Equipment class	Class 2		Refer to Sub-class H04 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

SRD

Wireless applications in Healthcare

Parameter	Descr	iption	Comment
Frequency band	2483.5 - 2500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application			For Low Power Active Medical Implants and associated peripherals, covered by the applicable harmonised standard.
	Channel spacing	1 MHz	
Channel /	Designation of emission		Individual transmitters may combine adjacent channels on a
modulation	Modulation / Occupied bandwidth		dynamic basis for increased bandwidth higher than 1 MHz.
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	10 dBm e.i.r.p.	
Channel access	Duty cycle	<i>LBT+AFA</i> and < 10%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Peripheral units are for indoo	r use only.	
Planned changes			
Reference	Decision 2013/752/EU EN 301 559 ERC REC 70-03 Annex 12e		Band no. 59
Remarks			
Notification number	2011/268/L		
Equipment class	Class 1 Class 2		Refer to Sub-class 117 (2000/299/EC) (no periph. master) Refer to Sub-class H09 (2000/299/EC) (periph. master)

Normative in accordance to the *TCAM RIG II* template

Broadcasting Satellite Service

Broadcasting-satellite receivers

Parameter	Descr	iption	Comment
Frequency band	11700 - 12500 MHz		
Radio Service	Broadcasting-Satellite		
Application	Broadcasting Broadcasting (satellite)		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power Antenna Gain		
Tower density	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	RR App 30; ERC DEC (00)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Descr	iption	Comment
Frequency band	3700 - 4200 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
Channel /	Channel spacing Designation of emission	to be defined by the satellite network operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite network operator	
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	Not defined	ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	to be defined by the satellite network operator	
Direction / Separation	to be defined by the satellite network operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
Planned changes			
Reference	EN 301 443; EN 301 447 CEPT ECC DEC (05)09		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Descr	iption	Comment
Frequency band	5925 - 6425 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
	Channel spacing	to be defined by the satellite network operator	
Channel / modulation	Designation of emission Modulation / Occupied bandwidth Reference frequency	to be defined by the satellite network operator	
Transmit power / Power density	Output power Antenna Gain Radiated power	Not defined	ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	to be defined by the satellite network operator	
Direction / Separation	to be defined by the satellite n	1	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
Planned changes			
Reference	EN 301 443, EN 301 447 ECC DEC (05)09		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Descr	iption	Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
rower density	Radiated power	Refer to subclass 12	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	RR App 30B		in the range of 10.7 - 10.95 GHz and 11.2 - 11.45 GHz
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Descr	iption	Comment
Frequency band	12500 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power	Refer to subclass 12	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite of	perator	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Descr	iption	Comment
Frequency band	14000 - 14250 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	Refer to subclass 12	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined be the satellite operator		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Descr	iption	Comment
Frequency band	14250 - 14500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined be the satellite operator		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	3400 - 3600 MHz		
	Fixed-Satellite (space-to-Earth)		_
Radio Service			-
	Satellite systems (civil)		_
Application	FSS Earth stations		_
	Channel spacing	defined during licencing procedure	
Channel /	Designation of emission	defined during licencing procedure	_
modulation	Modulation / Occupied bandwidth	defined during licencing procedure	
	Reference frequency	defined during licencing procedure	
	Output power	defined during licencing procedure	
Transmit power / Power density	Antenna Gain	defined during licencing procedure	
	Radiated power	defined during licencing procedure	
Channel access	Duty cycle	defined during licencing procedure	_
and occupation rules	Access protocol	defined during licencing procedure	-
	Trans. capacity	defined during licencing procedure	
Direction / Separation	defined during licencing proce	edure	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 443		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	3600 - 4200 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined be the satellite operator	
Channel /	Designation of emission	to be defined be the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined be the satellite operator	
	Reference frequency		
·	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined be the satellite operator	
Direction / Separation	to be defined be the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 443		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	5725 - 6700 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined be the satellite operator	
Channel / modulation	Designation of emission	to be defined be the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined be the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
-	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined be the satellite operator	
Direction / Separation	to be defined be the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 443		in the range of 5850 - 6700 MHz
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	6700 - 7075 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h) (Earth-to-space)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30B		in the range of 6725 - 7075 MHz
Planned changes			
Reference	EN 301 443		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	7900 - 8400 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	RR app 30B; ERC DEC (00)08		RR App 30B: In the range of 10.7 - 10.95 GHz and 11.20 - 11.45 GHz
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	12500 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
· · · · · · · · · · · · · · · · · · ·	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite of	perator	
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	12750 - 13250 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
-	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30B		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	13750 - 14500 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
	Satellite systems (civil)		
Application	FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	17700 - 18100 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
	Satellite systems (civil)		
Application	FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)07		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	18100 - 18400 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h) (Earth-to-space)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
· · · · · · · · · · · · · · · · · · ·	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
·	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)07		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	18400 - 19700 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
	Satellite systems (civil)		
Application	FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)07		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	27500 - 29500 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
	Satellite systems (civil)		
Application	FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
rower density	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)01		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
	Satellite systems (civil)		
Application	FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

FSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	37500 - 40500 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
	Satellite systems (civil)		
Application	FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
i ower density	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)02		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

HEST

Parameter	Descr	iption	Comment
	10700 - 12750 MHz		
	Fixed-Satellite (space-to-Earth)		
1	Satellite systems (civil)		
	FSS Earth stations		For SIT reception. For VSAT use in the range of 12.5-12.75 GHz.
	HEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		-
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	$34 \ dBW < EIRP \le 60 \ dBW$	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		_
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 391 428; EN 301 459		
Remarks	Coupled with 29.5-30 GHz		For VSAT use 12.5-12.75 GHz is also coupled with 14-14.25 GHz.
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

HEST

Parameter	Descr	ription	Comment
	14000 - 14250 MHz		
	Fixed-Satellite (Earth-to-space)		
1			
	Satellite systems (civil)		E. W. AT to manipulation
	FSS Earth stations HEST		For VSAT transmission.
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	$34 \ dBW < EIRP \le 60 \ dBW$	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 12.5-12.75 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

HEST

Parameter	Descr	ription	Comment
	19700 - 20200 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations		For SUT reception.
	HEST Channel spacing		
	Designation of emission		-
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	$34 \ dBW < EIRP \le 60 \ dBW$	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 29.5-30 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template
Fixed Satellite Service

HEST

Parameter	Descr	ription	Comment
	29500 - 30000 MHz		
	Fixed-Satellite (Earth-to-spac	e)	
1			
	Satellite systems (civil)		
	FSS Earth stations HEST		For SIT/SUT transmissions.
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	$34 \ dBW < EIRP \le 60 \ dBW$	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 10.7-12.75 GHz	and 19.7-20.2 GHz	
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

LEST

Parameter	Descr	iption	Comment
	10700 - 12750 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		For SIT reception.
	FSS Earth stations		For VSAT reception in band of 12.5-12.75 GHz
	LEST	1	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	Max. 34 dBW EIRP	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 428; EN 301 459		
Remarks	Coupled with 29.5-30 GHz		12.5-12.75 GHz also coupled with 14-14.25 GHz.
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

LEST

Parameter	Descr	iption	Comment
	14000 - 14250 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations		For VSAT transmission.
	LEST	1	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	Max. 34 dBW EIRP	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing.	
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 12.5-12.75 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

LEST

Parameter	Descr	iption	Comment
	19700 - 20200 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations		For SUT reception.
	LEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	Max. 34 dBW EIRP	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual license	ing.	
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 29.5-30 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

LEST

Parameter	Descr	iption	Comment
	29500 - 30000 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations		For SIT/SUT transmission.
	LEST		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		When an antenna is coupled to more than one transmitter
	Antenna Gain		or a transmitter provides more than one carrier (multi- carrier operation), the EIRP level is the sum of all
	Radiated power	Max. 34 dBW EIRP	simultaneous emissions from the antenna on the main lobe.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual license	ing.	
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 10.7-12.75 GHz and 19.7-20.2 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description 17300 - 20200 MHz		Comment
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations		
	GSO ESOMPs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		Defined by the satellite network operator
	Reference frequency		
	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limited
	Antenna Gain		to a value within the range from 55-60 dBW as specified in
	Radiated power		Annex 1 of ECC DEC (13)01
	Duty cycle		
	Access protocol		Defined by the satellite network operator
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual lice	ensing	
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC DEC (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
	27500 - 27828.5 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satallita matama (ainil)		
	Satellite systems (civil) FSS Earth stations		
	GSO ESOMPs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		<i>Defined by the satellite network operator</i>
	bandwidth		
	Reference frequency		
	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limited
	Antenna Gain		to a value within the range from 55-60 dBW as specified in
	Radiated power		Annex 1 of ECC DEC (13)01
	Duty cycle		
	Access protocol		Defined by the satellite network operator
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual lice	ensing	
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC DEC (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
	28444.5 - 28948.5 MHz		
	Fixed-Satellite (Earth-to-spac	e)	
	Satellite systems (civil)		
	FSS Earth stations		
	GSO ESOMPs		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		Defined by the satellite network operator
	Reference frequency		
	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limited
	Antenna Gain		to a value within the range from 55-60 dBW as specified in
	Radiated power		Annex 1 of ECC DEC (13)01
	Duty cycle		
	Access protocol		Defined by the satellite network operator
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual lice	ensing	
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC DEC (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
	29452.5 - 30000 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations GSO ESOMPs		
	Channel spacing		
	Designation of emission		Defined by the satellite network operator
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limite
	Antenna Gain		to a value within the range from 55-60 dBW as specified in
	Radiated power		Annex 1 of ECC DEC (13)01
	Duty cycle		
	Access protocol		Defined by the satellite network operator
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual lice	ensing	
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC Decision (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Descr	iption	Comment
	17300 - 20200 MHz		17.3 - 19.7 GHz and 19.7 - 20.2 GHz
	Fixed-Satellite (space-to-Earth	h)	
	Satellite systems (civil)		
	FSS Earth stations		
	NGSO ESOMPs	1	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		Defined by the satellite network operator
	Reference frequency		
	Output power		
	Antenna Gain		Technical and operational requirements according to ECC DEC (15)04
	Radiated power		
	Duty cycle		
	Access protocol		Defined by the satellite network operator
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual lice	nsing	
Add. essential requirements			
Freq. planning assumption	Additional technical and opera according to ECC DEC (15)04		
Planned changes			
Reference	EN 303 979 ECC DEC (15)04		
Remarks	17.3–19.7 GHz / 27.5–27.8285 28.4445–28.8365 GHz; 19.7-20.2 GHz / with 29.5-30.0		
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description	Comment
	27500 - 27828.5 MHz	
	Fixed-Satellite (Earth-to-space)	
	Satellite systems (civil)	
	FSS Earth stations	
	NGSO ESOMPs	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	Defined by the satellite network operator
	Reference frequency	
	Output power	
	Antenna Gain	Technical and operational requirements according to ECC DEC (15)04
	Radiated power	
	Duty cycle	
	Access protocol	Defined by the satellite network operator
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempted from individual licensing	
Add. essential requirements		
Freq. planning assumption	Additional technical and operational requirements according to ECC DEC (15)04	
Planned changes		
Reference	EN 303 979 ECC DEC (15)04	
Remarks	Coupled with 17.3 – 19.7 GHz	
Notification number	2016/7/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description	Comment
	28444.5 - 28836.5 MHz	
	Fixed-Satellite (Earth-to-space)	
	Satellite systems (civil)	
	FSS Earth stations	
	NGSO ESOMPs Channel spacing	
	Designation of emission	
	Modulation / Occupied	Defined by the satellite network operator
	bandwidth	J J
	Reference frequency	
	Output power	
	Antenna Gain	<i>Technical and operational requirements according to</i> <i>ECC DEC (15)04</i>
	Radiated power	
	Duty cycle	
	Access protocol	Defined by the satellite network operator
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempted from individual licensing	
Add. essential requirements		
Freq. planning assumption	Additional technical and operational requirements according to ECC DEC (15)45	
Planned changes		
Reference	EN 303 979 ECC DEC (15)04	
Remarks	Coupled with 17.3 – 19.7 GHz	
Notification number	2016/7/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description	Comment
	29500 - 30000 MHz	
	Fixed-Satellite (Earth-to-space)	
	Satellite systems (civil)	
	FSS Earth stations	
	NGSO ESOMPs	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	Defined by the satellite network operator
	Reference frequency	
	Output power	
	Antenna Gain	Technical and operational requirements according to ECC DEC (15)04
	Radiated power	
	Duty cycle	
	Access protocol	Defined by the satellite network operator
	Trans. capacity	
Direction / Separation		
Authorisation regime	Exempted from individual licensing	
Add. essential requirements		
Freq. planning assumption	Additional technical and operational requirements according to ECC DEC (15)04	
Planned changes		
Reference	EN 303 979 ECC DEC (15)04	
Remarks	Coupled with 19.7 – 20.2 GHz	
Notification number	2016/7/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

Feeder links

Parameter	Descr	iption	Comment
Frequency band	17300 - 18100 MHz		
Radio Service	Fixed-Satellite (Earth-to-spac	e)	
	Satellite systems (civil)		
Application	Feeder links		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30A		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

Feeder links

Parameter	Descr	iption	Comment
Frequency band	27500 - 29500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) Feeder links		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

HDFSS

Parameter	Descr	iption	Comment
Frequency band	17300 - 17700 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
1 0 // 01 delisioj	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

HDFSS

Parameter	Descr	iption	Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Application			
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks	1		
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

HDFSS

Parameter	Descr	iption	Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power /	Output power		
Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

HDFSS

Parameter	Descr	ription	Comment
Frequency band	47500 - 47900 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
Application	FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		defined during licensing procedure
Power density	Radiated power	to be defined by the satellite operator	
Channel	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

HDFSS

Parameter	Descr	iption	Comment
Frequency band	48200 - 48540 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Note defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

HDFSS

Parameter	Descr	iption	Comment
Frequency band	49440 - 50200 MHz		
Radio Service	Fixed-Satellite (space-to-Eart	h)	
Application	Satellite systems (civil) FSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T 1 (Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Fixed Satellite Service

SIT/SUT

Fixed- Satellin FSS Ed SIT/SU Chan Desig	- 12750 MHz Satellite (space-to-Earth	.)	
Satellia FSS Ed SIT/SU Chan Desig	Satellite (space-to-Earth		
FSS Ed SIT/SU Chan Desig		<i>ı)</i>	
FSS Ed SIT/SU Chan Desig			
FSS Ed SIT/SU Chan Desig			
SIT/SU Chan Desig	te systems (civil)		
Chan Desig	arth stations		For SIT reception.
Desig			
	nel spacing		
Mod	nation of emission		
	ulation / Occupied bandwidth		
Refer	ence frequency		
Outpu	ut power		
Anter	nna Gain		
Radia	ated power	Not defined	
Duty	cycle		
Acces	ss protocol		
Trans	s. capacity		
Direction / Separation			
Authorisation regime An ind	lividual license is require	ed.	
Add. essential requirements			
Freq. planning Appendix Appendix CEPT	Appendix 30B of the Radio Regulations; CEPT ERC DEC (00)08		Appendix 30B of the Radio Regulations in the range of 10.7-10.95 GHz and 11.2-11.45 GHz. CEPT ERC DEC (00)08 in the range of 10.7-12.5 GHz.
Planned changes			
Reference EN 30.	EN 301 360		
Remarks Couple	Coupled with 27.5-29.5 GHz.		
Notification number 2011/5	548/L		
Equipment class Class 2	2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

SIT/SUT

Parameter	Descr	iption	Comment
	17700 - 19700 MHz		
	Fixed-Satellite (space-to-Earth	h)	
	Satellite systems (civil) FSS Earth stations		
	SIT/SUT		For SUT reception
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Not defined	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is require	ed.	
Add. essential requirements			
Freq. planning assumption	CEPT ERC DEC (00)07		
Planned changes			
Reference	EN 301 360; EN 301 459		
Remarks	Coupled with 27.5-29.5 GHz and 29.5-30.0 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

SIT/SUT

Parameter	Descr	iption	Comment
	19700 - 20200 MHz		
	Fixed-Satellite (space-to-Earth	h)	
1			
	Satellite systems (civil) FSS Earth stations		
	SIT/SUT		For SUT reception.
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Not defined	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is require	ed.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 360		
Remarks	Coupled with 27.5-29.5 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

SIT/SUT

Parameter	Descr	iption	Comment
	27500 - 29500 MHz		
	Fixed-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	FSS Earth stations		For SIT/SUT transmission
	SIT/SUT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is requir	ed.	
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (05)01		
Planned changes			
Reference	EN 301 360		
Remarks	Coupled with 10.7-12.75 GHz; 17.7-20.2 GHz and 21.40-22.00 GHz.		
Notification number	2011/548/L		
Equipment class	Class 2		

Fixed Satellite Service

SIT/SUT

Parameter	Descr	iption	Comment
	29500 - 30000 MHz		
	Fixed-Satellite (space-to-Earth)		
	Satellite systems (civil)		
	FSS Earth stations SIT/SUT		For SIT/SUT transmissions
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is require	ed.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 17.70-19.70 GH	z and 21.40-22.00 GHz	
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

SNG

Parameter	Descr	iption	Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SNG		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 430		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

SNG

Parameter	Descr	iption	Comment
Frequency band	14000 - 14500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations SNG		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
1 0 // 01 delibitoj	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite of	perator	
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 430		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

SNG

Parameter	Descr	iption	Comment
Frequency band	12500 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SNG		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Fixed Satellite Service

VSAT

Parameter	Descr	iption	Comment
	10700 - 11700 MHz		
	Fixed-Satellite (space-to-Eart	h)	
	Satellite systems (civil)		
	FSS Earth stations		
	VSAT	I	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	Max. 2W	
	Antenna Gain		
	Radiated power	Max. EIRP: 50 dBW	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	A notification to the NRA is re	quired.	
Add. essential requirements			
Freq. planning assumption	Appendix 30B of the Radio Re CEPT ECC DEC (03)04	gulations:	Appendix 30B of the Radio Regulations n the range of 10.7 - 10.95 GHz and 11.2 - 11.45 GHz
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 14.25-14.5 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		
- Yurpinent etubb			

Fixed Satellite Service

VSAT

Parameter	Description		Comment
	14250 - 14500 MHz		
	Fixed-Satellite (Earth-to-space)		
	Catallita matana (ainil)		
	Satellite systems (civil) FSS Earth stations		
	VSAT		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	Max. 2W	
	Antenna Gain		
	Radiated power	Max eirp: 50 dBW	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	A notification to the NRA is re	quired.	
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (03)04		
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 10.7-11.7 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	137 - 138 MHz		
Radio Service	Mobile-Satellite (space-to-Ea	rth)	
Application	Satellite systems (civil) MSS Earth stations S-PCS		
	Channel spacing		
Channel /	Designation of emission	Narrow band Frequency or Phase modulation	. Maximum burst length duration on S-PCS terminal
modulation	Modulation / Occupied bandwidth		transmission: 500 msec.
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	Max. Spectrum density of EIRP: 10dBW/4kHz	
Channel access	Duty cycle	1% in any 15 minutes period from any single channel.	Consecutive transmissions from a single earth station on
and occupation rules	Access protocol	FDMA	the same frequency shall be separated by at least 15 seconds.
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ERC DEC (99)05; CEPT ERC DEC (99)06 EN 301 721		
Remarks	Coupled with 148-150.05 MHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	148 - 150.05 MHz		
Radio Service	Mobile-Satellite (Earth-to-space)		
	Satellite systems (civil)		
Application	MSS Earth stations		
	S-PCS		
	Channel spacing		
Channel /	Designation of emission	Narrow band Frequency or Phase modulation	
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		Maximum burst length duration on S-PCS terminal
Power density	Radiated power	Max. Spectrum density of EIRP: 10dBW/4kHz	transmission: 500 msec.
Channel access	Duty cycle	1% in any 15 minutes period from any single channel.	Consecutive transmissions from a single earth station on
and occupation rules	Access protocol	FDMA	the same frequency shall be separated by at least 15 seconds.
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ERC DEC (99)05; CEPT ERC DEC (99)06 EN 301 721		
Remarks	Coupled with 137-138 MHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	1518 - 1525 MHz		
	Mobile-Satellite (space-to-Earth)		
Radio Service	Land Mobile-Satellite (space-	to-Earth)	
	Satellite systems (civil)		
Application	MSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (04)09; CEPT ECC DEC (12)01 EN 301 444; EN 301 473; EN 301 681		
Remarks	Coupled with 1670-1675 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1670 - 1675 MHz		
	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-	to-space)	
	Satellite systems (civil)		
Application	MSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (04)09; CEPT ECC DEC (12)01 EN 301 444; EN 301 473; EN 301 681		
Remarks	Coupled with 1518-1525 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1525 - 1544 MHz		
	Mobile-Satellite (space-to-Earth)		
Radio Service	Land Mobile-Satellite (space-	to-Earth)	
	Satellite systems (civil)		
Application	MSS Earth stations		Provide voice and/or data communications
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		148 dBpW for angle < 40 degrees ;
Transmit power /	Antenna Gain		$\begin{array}{llllllllllllllllllllllllllllllllllll$
Power density	Radiated power	Not defined	angle: between the main beam axis and the direction considered
Channel	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; CEPT ERC DEC (95)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1631.5-1634.5 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template
Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1631.5 - 1634.5 MHz		
	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-	to-space)	
A	Satellite systems (civil)		
Application	MSS Earth stations		Provide voice and/or data communications
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		148 dBpW for angle < 40 degrees ;
Transmit power /	Antenna Gain		177 - 25 log f dBpW for 40 degress < f < 75 degrees ; 130 dBpW for angle > 75 degrees;
Power density	Radiated power	Not defined	angle: between the main beam axis and the direction considered
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1525-1544 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1555 - 1559 MHz		
	Mobile-Satellite (space-to-Earth)		
Radio Service	Land Mobile-Satellite (space-	to-Earth)	
	Satellite systems (civil)		
Application	MSS Earth stations		Provide voice and/or data communications
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		148 dBpW for angle < 40 degrees ;
Transmit power /	Antenna Gain		177 - 25 log f dBpW for 40 degress < f < 75 degrees ; 130 dBpW for angle > 75 degrees;
Power density	Radiated power	Not defined	angle: between the main beam axis and the direction considered
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1656.5-1660.5 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1656.5 - 1660.5 MHz		
	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-	to-space)	
A	Satellite systems (civil)		
Application	MSS Earth stations		Provide voice and/or data communications
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		148 dBpW for angle < 40 degrees ;
Transmit power /	Antenna Gain		177 - 25 log f dBpW for 40 degress < f < 75 degrees ; 130 dBpW for angle > 75 degrees;
Power density	Radiated power	Not defined	angle: between the main beam axis and the direction considered
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite of	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1555-1559 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	1525 - 1544 MHz		
Radio Service	Mobile-Satellite (space-to-Ean Land Mobile-Satellite (space-		
Application	Satellite systems (civil) MSS Earth stations		Low data rate LMES applications
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	to be defined by the satellite operator	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; CEPT ERC DEC (95)01 EN 301 426		
Remarks	Coupled with 1626.5-1645.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1626.5 - 1645.5 MHz		
	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-	to-space)	
	Satellite systems (civil)		
Application	MSS Earth stations		Low data rate LMES applications
		to be defined by the satellite	
	Channel spacing	operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	to be defined by the satellite operator	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01 EN 301 426		
Remarks	Coupled with 1525-1544 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1555 - 1559 MHz		
	Mobile-Satellite (space-to-Earth)		
Radio Service	Land Mobile-Satellite (space-	to-Earth)	
	Satellite systems (civil)		
Application	MSS Earth stations		Low data rate LMES applications
rippicution			
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power /	Antenna Gain		
Power density	Radiated power	to be defined by the satellite operator	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite of	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01 EN 301 426		
Remarks	Coupled with 1656.5-1660.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1656.5 - 1660.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-spa Land Mobile-Satellite (Earth-t		
Application	Satellite systems (civil) MSS Earth stations		Low data rate LMES applications
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied	to be defined by the satellite operator to be defined by the satellite	
	bandwidth Reference frequency	operator	
Transmit power / Power density	Output power Antenna Gain		
Tower defisity	Radiated power	to be defined by the satellite operator	
Channel access and	Duty cycle Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite of	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 426		
Remarks	Coupled with 1555-1559 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	1525 - 1544 MHz		
	Mobile-Satellite (space-to-Earth)		
Radio Service	Land Mobile-Satellite (space-	to-Earth)	
	Satellite systems (civil)		
Application	MSS Earth stations		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for
rippication			Satellite Personal Communications Networks (S-PCN)
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
m t /	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; CEPT ERC DEC (95)01 EN 301 681		
Remarks	Coupled with 1626.5-1645.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1626.5 - 1645.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-spa Land Mobile-Satellite (Earth-		
Application	Satellite systems (civil) MSS Earth stations		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for Satellite Personal Communications Networks (S-PCN)
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 681		
Remarks	Coupled with 1525-1544 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	1545 - 1559 MHz		
Radio Service	Mobile-Satellite (space-to-Ea Land Mobile-Satellite (space-		
Application	Satellite systems (civil) MSS Earth stations		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for Satellite Personal Communications Networks (S-PCN)
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 681		
Remarks	Coupled with 1646.5-1660.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1646.5 - 1660.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-spa Land Mobile-Satellite (Earth-		
Application	Satellite systems (civil) MSS Earth stations		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including hanheld earth stations for Satellite Personal Communications Networks (S-PCN)
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
1 0 // 01 delibity	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 681		
Remarks	Coupled with 1545-1559 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	1610 - 1613.5 MHz		
	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-	to-space)	
	Satellite systems (civil)		
Application	MSS Earth stations		
	S-PCS		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power	to be defined by the satellite operator	
Transmit power /	Antenna Gain		
Power density	Radiated power	-3 dB (W/4 kHz) (mean limit) -15 dB (W/4 kHz) (peak limit)	In this context, the mean is the mean over time whilst the MES is in the carrier-on mode
	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01; CEPT ECC DEC (09)02 EN 301 441, EN 301 473		
Remarks	Coupled with 1613.8-2500 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 14 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	1613.8 - 2500 MHz		1613.8 - 1626.5 MHz & 2483.5 - 2500 MHz
Radio Service	Mobile-Satellite (space-to-Ear Land Mobile-Satellite (space-		
Application	Satellite systems (civil) MSS Earth stations S-PCS		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power	to be defined by the satellite operator	
Transmit power / Power density	Antenna Gain Radiated power	-3 dB (W/4 kHz) (mean limit) -15 dB (W/4 kHz) (peak limit)	In this context, the mean is the mean over time whilst the MES is in the carrier-on mode
	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01; CEPT ECC DEC (09)02 EN 301 441, EN 301 473		
Remarks	Coupled with 1610-1613.5 MI	Hz	
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 14 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	1980 - 2010 MHz		Harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services (2007/98/EC)
	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-t	to-space)	
	Satellite systems (civil)		
Application	MSS Earth stations		
	S-PCS	1	
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power	to be defined by the satellite operator	
Transmit power / Power density	Antenna Gain		
rower density	Radiated power	to be defined by the satellite operator	
	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; Commission Decision 2007/98/EC; 2008/626/CE; 2009/449/CE; 2011/667/UE		EN301442, EN301473, EN302574;
Remarks	Coupled with 2170-2200 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 15 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	2170 - 2200 MHz		Harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services (2007/98/EC)
Radio Service	Mobile-Satellite (space-to-Ear Land Mobile-Satellite (space-	´	
Application	Satellite systems (civil) MSS Earth stations S-PCS		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power	to be defined by the satellite operator	
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power	to be defined by the satellite operator	
Channel a serve	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o _l	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01 Commission Decision 2007/98/EC; 2008/626/CE; 2009/449/CE; 2011/667/UE		EN301442, EN301473, EN302574;
Remarks	Coupled with 1980-2010 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 15 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	10700 - 12750 MHz		10.7 - 11.7 GHz & 12.5 - 12.75 GHz
	Mobile-Satellite (space-to-Earth)		
Radio Service	Land Mobile-Satellite (space-	to-Earth)	
A	Satellite systems (civil)		
Application	MSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power	to be defined by the satellite operator	
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	<i>Refer to sub-class 12</i> (2000/299/EC)	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ERC/DEC/(98)15 EN 301 427		
Remarks	Coupled with 14-14.25 GHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	14000 - 14250 MHz		
	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-	to-space)	
	Satellite systems (civil)		
Application	MSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power	to be defined by the satellite operator	
Transmit power / Power density	Antenna Gain		
I ower defisity	Radiated power	<i>Refer to sub-class 12</i> (2000/299/EC)	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite o	perator	
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ERC/DEC/(98)15 EN 301 427		
Remarks	Coupled with 10.7-12.75 GHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	iption	Comment
Frequency band	19700 - 20200 MHz		
	Mobile-Satellite (space-to-Earth)		
Radio Service	Land Mobile-Satellite (space-	to-Earth)	
	Satellite systems (civil)		
Application	MSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
rower density	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 360; EN 301 459		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

MSS Earth stations

Parameter	Descr	ription	Comment
Frequency band	29500 - 30000 MHz		
Dedie Comies	Mobile-Satellite (Earth-to-space)		
Radio Service	Land Mobile-Satellite (Earth-i	lo-space)	
	Satellite systems (civil)		
Application	MSS Earth stations		
	Channel spacing	to be defined by the satellite operator	
Channel /	Designation of emission	to be defined by the satellite operator	
modulation	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency	to be defined by the satellite operator	
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 459		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Mobile Satellite Service

COSPAS-SARSAT

Parameter	Descr	iption	Comment
Frequency band	406 - 406.1 MHz		
Radio Service	Mobile-Satellite		
Application	Satellite systems (civil)		COSPAS SARSAT regrouping: Emergency Position Indicating Radio Beacons (EPIRB) Emergency Locator Transmitter (ELT) Personal Locator Beacons (PLB)
	Channel spacing		
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	Phase modulation of +-(1.1) radians peak	
	Reference frequency	406.025 MHz +- 0.005 MHz	
T • (Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	5 W e.i.r.p. +- 2 dB	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	400 bps	
Direction / Separation			
Authorisation regime	For ELT and EPIRB individua	l license required.	
Add. essential requirements	Decision 2005/631/EC Decision 2013/638/EU		
Freq. planning assumption			
Planned changes			
Reference	EN 300 066 (EPIRB) EN 302 152 (PLB)		
Remarks	Usage of ELT and EPIRB		In case of ELT and EPIRB, these equipments should only be operated by a person who is holder of a valid operator certificate. PLB's are for the time being not supported on the territory of Luxembourg. Beacon owners who wish to register their beacons should do this on the site https://www.406registration.com.
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Mobile Satellite Service

Non-voice transmit-only Mobile Earth Stations

Parameter	Descr	iption	Comment
	1613.8 - 1626.5 MHz		
	Mobile-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	MSS Earth stations		Non-voice transmit-only Mobile Earth Stations.
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		The equipment shall operate in accordance with the
Transmit power /	Antenna Gain		provisions of footnote 5.364 of the Radio Regulations and the level of unwanted emissions shall not exceed the limits
	specified in the Table 1 of Annex 1 of ITU-Recommendation		
Channel access	Duty cycle	Max. 1%	The duty cycle is defined as the ratio, expressed as a
and	Access protocol		percentage, of the maximum transmitter ON time on one
occupation rules	Trans. capacity		<i>carrier frequency, relative to a one hour period.</i>
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (09)04 EN 301 426; EN 301 441; EN 301 473		
Remarks			
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Radiodetermination Satellite Service

GNSS Repeaters

Rad	54 - 1300 MHz diodetermination-Satellite dionavigation-Satellite	
Rad	dionavigation-Satellite	
	ellite systems (civil)	
Sate	ellite navigation systems	Concerns GNSS-Repeaters
Ch	annel spacing	
	signation of emission	
	odulation / Occupied	
	bandwidth	
Ref	ference frequency	
	itput power	
Ant	itenna Gain	Conditions of annex 1 of ECC/REC/(10)02 shall be respected.
Rad	diated power	respecteu.
Dut	ity cycle	
Acc	cess protocol	
Tra	ans. capacity	
Direction / Separation		
Authorisation regime	lividual license required.	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
	C/REC/(10)02 302 645	
Remarks		
Notification 201	11/466/L	
Equipment class		

Normative in accordance to the *TCAM RIG II* template

Radiodetermination Satellite Service

GNSS Repeaters

Parameter	Description	Comment
	1559 - 1610 MHz	
	Radiodetermination-Satellite	
	Radionavigation-Satellite	
	Satellite systems (civil)	
	Satellite navigation systems	Concerns GNSS-Repeaters
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power Antenna Gain	Conditions of annex 1 of ECC/REC/(10)02 shall be
		respected.
	Radiated power	
	Duty cycle	
	Access protocol	
D'action (Trans. capacity	
Direction / Separation		
Authorisation regime	Individual license required.	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	ECC/REC/(10)02 EN 302 645	
Remarks		
Notification number	2011/466/L	
Equipment class		

Normative in accordance to the *TCAM RIG II* template

Broadcasting

Sound analogue

Parameter	Descr	iption	Comment
Frequency band	0.1485 - 0.255 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) AM sound analogue		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	9K00A3EGN AM	
Transmit power / Power density	Output power Antenna Gain Radiated power	Not defined	e.r.p. will be defined during licensing procedure
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	Not applicable Not applicable Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 017		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 21 April 2008

Broadcasting

Sound analogue

Parameter	Descr	iption	Comment
Frequency band	0.5265 - 1.6065 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) AM sound analogue		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	9K00A3EGN AM	
Transmit power / Power density	Output power Antenna Gain Radiated power	Not defined	e.r.p. will be defined during licensing procedure
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	Not applicable Not applicable Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 017		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 21 April 2008

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	87.5 - 108 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) FM sound analogue		
	Channel spacing	100 kHz	
	Designation of emission	180KF9EG; 300KF9EH	
Channel / modulation	Modulation / Occupied bandwidth	FM	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
i ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 84 Agreement ITU-R B.S.412-9 ITU-R B.S.450-3		Pilot system
Planned changes			
Reference	EN 302 018 (ETS 300 384)		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Broadcasting

Sound analogue

Parameter	Descr	iption	Comment
Frequency band	98.7 - 98.7 MHz		Only for temporary use during local events for transmission of event-related information.
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) FM sound analogue		
	Channel spacing	100 kHz	
Channel /	Designation of emission	180KF9EG; 300KF9EH	
Channel / modulation	Modulation / Occupied bandwidth	FM	
	Reference frequency		
	Output power	Max. 1W	
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	<i>No licensing required, but notification to the ILR prior to putting into service.</i>		
Add. essential requirements			
Freq. planning assumption	GE 84 Agreement ITU-R B.S.412-9 ITU-R B.S.450-3		Pilot system
Planned changes			
Reference	EN 302 018 (ETS 300 384)		
Remarks			
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Broadcasting

Sound analogue

Parameter	Descr	iption	Comment
Frequency band	99.5 - 99.5 MHz		Only for temporary use during local events for transmission of event-related information.
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) FM sound analogue		
	Channel spacing	100 kHz	
Channel /	Designation of emission	180KF9EG; 300KF9EH	
modulation	Modulation / Occupied bandwidth	FM	
	Reference frequency		
	Output power	Max. 1W	
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	<i>No licensing required, but notification to the ILR prior to putting into service.</i>		
Add. essential requirements			
Freq. planning assumption	GE 84 Agreement ITU-R B.S.412-9 ITU-R B.S.450-3		Pilot system
Planned changes			
Reference	EN 302 018 (ETS 300 384)		
Remarks			
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	0.1485 - 0.2835 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	9 kHz	
~	Designation of emission	9K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	0.5265 - 1.6065 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	9 kHz	
	Designation of emission	9K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
· · · · · · · · · · · · · · · · · · ·	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 03 April 2008

Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	3.95 - 4 MHz		
	Broadcasting		
Radio Service			
	Broadcasting		
Application	Broadcasting (terrestrial)		
	DRM	1	
	Channel spacing	10 kHz	_
Channel /	Designation of emission	10K00A3E	-
modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		<i>e.r.p. will be defined during licensing procedure</i>
Tower density	Radiated power	Not defined	-
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not defined		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 03 April 2008

Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	5.9 - 6.2 MHz		
	Broadcasting		
Radio Service			
	Broadcasting		
Application	Broadcasting (terrestrial)		
	DRM		
	Channel spacing	10 kHz	-
Channel /	Designation of emission	10K00A3E	_
modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		<i>e.r.p. will be defined during licensing procedure</i>
I ower density	Radiated power	Not defined	-
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements	RR Article 12		
Freq. planning assumption			
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 03 April 2008

Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	7.2 - 7.4 MHz		
	Broadcasting		
Radio Service			
	Broadcasting		
Application	Broadcasting (terrestrial)		
	DRM		
	Channel spacing	10 kHz	
Channel /	Designation of emission	10K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p will be defined during licensing procedure
rower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	-
and	Access protocol	Not applicable	-
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	9.4 - 9.9 MHz		
	Broadcasting		
Radio Service			
	Broadcasting		
Application	Broadcasting (terrestrial)		
	DRM		
	Channel spacing	10 kHz	
Channel /	Designation of emission	10K00A3E	
modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
Tower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Artile 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	11.6 - 12.1 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	10 kHz	
	Designation of emission	10K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
T	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
1 0 // 01 delibitoj	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	13.57 - 13.87 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
r.	Channel spacing	10 kHz	
	Designation of emission	10K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
· · · · · · · · · · · · · · · · · · ·	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	15.1 - 15.8 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	10 kHz	
	Designation of emission	10K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
i ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	17.48 - 17.9 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	10 kHz	
Channel /	Designation of emission	10K00A3E	
modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under Study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
1 ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	18.9 - 19.02 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	10 kHz	
	Designation of emission	10K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
i ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	CLass 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	21.45 - 21.85 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	10 kHz	
	Designation of emission	10K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Artivle 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	25.67 - 26.1 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
	Channel spacing	10 kHz	
	Designation of emission	10K00A3E	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	Under study
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
i ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 03 April 2008

Broadcasting

Sound digital

Parameter	Descr	iption	Comment
Frequency band	174 - 230 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) T-DAB		
	Channel spacing	1.5 MHz	
	Designation of emission	1M50X7EEF	-
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 06 plan		
Planned changes			
Reference	EN 302 077		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Broadcasting

TV digital

Parameter	Descr	iption	Comment
Frequency band	174 - 230 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DVB-T		
	Channel spacing	7 MHz	
	Designation of emission	7M00X7FXF	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		-
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
I ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 06 plan		
Planned changes			
Reference	EN 300 744, EN 302 296		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Broadcasting

TV digital

Parameter	Descr	iption	Comment
Frequency band	470 - 790 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DVB-T		
	Channel spacing	8 MHz	
	Designation of emission	8M00X7FXF	
Channel / modulation	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
i ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 06 plan		
Planned changes			
Reference	EN 300 744; EN 302 296		
Remarks			
Notification number	2010/708/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	68 - 74.8 MHz		
Radio Service	Mobile Land Mobile		
	Land mobile		
Application	PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation	9.8 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Parameter	Descr	iption	Comment
Frequency band	75.2 - 87.5 MHz		
Radio Service	Mobile Land Mobile		
Application	Land mobile PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation	9.8 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	146 - 156.5125 MHz		
Radio Service	Mobile Land Mobile		
	Land mobile		
Application	PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	ription	Comment
Frequency band	156.5375 - 156.7625 MHz		
Radio Service	Mobile Land Mobile		
Application	Land mobile PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation	4.6 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	156.8375 - 169.4 MHz		
Radio Service	Mobile Land Mobile		
Application	Land mobile PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation	4.6 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	169.825 - 174 MHz		
Radio Service	Mobile Land Mobile		
	Land mobile		
Application	PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation	4.6 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Parameter	Descr	iption	Comment
Frequency band	384.75 - 385 MHz		
Radio Service	Mobile		-
Application	Aeronautical Aeronautical communications AGA communications (civil)		- Only digital trunking applications for emergency services.
I.	Channel spacing	25 kHz	
	Designation of emission		-
Channel / modulation	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	-
	Reference frequency		-
r.	Output power		
Transmit power / Power density	Antenna Gain		-
I ower density	Radiated power	Not defined	-
Channel access	Duty cycle	Not defined	
and	Access protocol		_
occupation rules	Trans. capacity		
Direction / Separation	10 MHz		Mobile transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 035; TBR 35; TR 102 459		
Remarks	Coupled with 394.75-395.0 MHz		
Notification number	2009/0375/L		
Equipment class	Class 2		

Parameter	Descr	iption	Comment
Frequency band	394.75 - 395 MHz		
Radio Service	Mobile		
Application	Aeronautical Aeronautical communications AGA communications (civil)		Only digital trunking applications for emergency services.
	Channel spacing	25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	
	Reference frequency		-
	Output power		
Transmit power / Power density	Antenna Gain		
i ower density	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation	10 MHz		BS transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 035; TBR 35; TR 102 459		
Remarks	Coupled with 384.75-385.0 MHz		
Notification number	2009/0375/L		
Equipment class	Class 2		

Parameter	Descr	iption	Comment
Frequency band	380 - 385 MHz		
	Mobile		
Radio Service	Land Mobile		
A 1. (.	Land mobile		Only digital trunking applications for emergency services.
Application	PMR/PAMR TETRA		Network stations without DMO.
	IEIKA	6.25 kHz;12.5 kHz; 20 kHz;	
	Channel spacing	0.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	30 W; 10 W; 3 W; 1 W	e.r.p. will be defined during licensing procedure
Transmit power /	Antenna Gain		45 dBm (30W) Power class 1
Power density			40 dBm (10W) Power class 2 35 dBm (3W) Power class 3
	Radiated power	Not defined	30 dBm (1W) Power class 4
Channel access	Duty cycle	Not defined	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity		
Direction / Separation	10 MHz		Mobile station transmit.
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC(08)05		
Planned changes			
Reference	EN 301 166; EN 303 035; TBR 35; EN 302 561 ECC DEC(08)05		
Remarks	Coupled with 390-395 MHz		
Notification number	2014/450/L		
Equipment class	Class 1		Refer to sub-class 13 (Commission Decision 2000/29) 25 kHz channel spacing

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	390 - 395 MHz		
	Mobile		
Radio Service	Land Mobile		
	Land mobile		
Application	PMR/PAMR		Only digital trunking applications for emergency services.
Аррисанов	TETRA		Network stations without DMO.
	Channel spacing	6.25 kHz;12.5 kHz; 20 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	30 W; 10 W; 3 W; 1 W	e.r.p. will be defined during licensing procedure
Transmit power /	Antenna Gain		45 dBm (30W) Power class 1
Power density	.		40 dBm (10W) Power class 2
	Radiated power	Not defined	35 dBm (3W) Power class 3 30 dBm (1W) Power class 4
Channel access	Duty cycle	Not defined	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity		
Direction / Separation	10 MHz		BS transmit.
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC(08)05		
Planned changes			
Reference	EN 301 166; EN 303 035; TBR 35; EN 302 561 ECC DEC(08)05		
Remarks	Coupled with 380-385 MHz		
Notification number	2014/450/L		
Equipment class	Class 1		Refer to sub-class 13 (Commission Decision 2000/29) 25 kHz channel spacing

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	406.1 - 410 MHz		
Radio Service	Mobile Mobile except aeronautical mobile		
Application	Land mobile PMR/PAMR PMR		
	Channel spacing	6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation			
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166 and TS 102 361		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	410 - 420 MHz		
Radio Service	Mobile Land Mobile		
	Land mobile		
Application	PMR/PAMR		Only trunking applications
	Channel spacing	12.5 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	FM/Digital	
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not defined	
Direction / Separation	10 MHz		Mobile station transmit.
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN300086;EN300113;EN300219;EN300296;EN300341; EN300390;EN301166;EN303035;EN302561		
Remarks	Coupled with 420-430 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Parameter	Descr	iption	Comment
Frequency band	420 - 430 MHz		
Radio Service	Mobile Land Mobile		
	Land mobile		
Application	PMR/PAMR		Only trunking applications
	Channel spacing	12.5 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	FM/Digital	
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not defined	
Direction / Separation	10 MHz		BS transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN300086;EN300113;EN300219;EN300296;EN300341; EN300390;EN301166;EN303035;EN302561		
Remarks	Coupled with 410-420 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Parameter	Descr	iption	Comment
Frequency band	440 - 450 MHz		
Radio Service	Mobile Land Mobile		
	Land mobile		
Application	PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	EN 300 471	Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.
occupation rules	Trans. capacity	Not defined	
Direction / Separation			
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166 and TS 102 361		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Parameter	Descr	iption	Comment
Frequency band	450 - 460 MHz		
	Mobile		
Radio Service	Land Mobile		
	Land mobile		
Application	PMR/PAMR		
rippicution			
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50kHz; 100kHz; 150kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	Access protocoll EN 300 471 or equal specification only
and	Access protocol	EN 300 471 (see remark)	mandatory if data transmission is used. Not applicable for trunking applications.
occupation rules	Trans. capacity	Not defined	
Direction / Separation	10 MHz		Mobile station transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166; TS 102 361; EN 302 561		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	460 - 470 MHz		
Radio Service	Mobile Land Mobile		
	Land mobile		
Application	PMR/PAMR		
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50 kHz,100 kHz, 150 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	Access protocoll EN 300 471 or equal specification only
and	Access protocol	EN 300 471	mandatory if data transmission is used. Not applicable for
occupation rules	Trans. capacity	Not defined	trunking applications.
Direction / Separation	10 MHz		Base station transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166; TS 102 361; EN 302 561		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	ription	Comment
Frequency band	450 - 460 MHz		
Radio Service	Mobile Land Mobile		
Application	Land mobile PMR/PAMR TETRA		
	Channel spacing	25 kHz	
	Designation of emission		-
Channel / modulation	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		-
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	-
and	Access protocol	Not applicable	-
occupation rules	Trans. capacity	Not defined	
Direction / Separation	10 MHz		Mobile station transmit.
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 035		
Remarks	Coupled with 460 - 470 MHz		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Parameter	Descr	iption	Comment
Frequency band	460 - 470 MHz		
Radio Service	Mobile Land Mobile		
Application	Land mobile PMR/PAMR TETRA		
	Channel spacing	25 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	
	Reference frequency		
Transmit power /	Output power	e.r.p. will be defined during licensing procedure	
Power density	Antenna Gain		
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not defined	
Direction / Separation	10 MHz		BS transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 035		
Remarks	Coupled with 450 - 460 MHz		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

PMR

PMR446

Parameter	Descr	iption	Comment
Frequency band	446 - 446.2 MHz		
Radio Service	Mobile Land Mobile		
Application	Land mobile PMR/PAMR PMR 446		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	12.5 kHz FM	Lowest carrier frequency: 446.00625 MHz
	Reference frequency		
Transmit power / Power density	Output power Antenna Gain Radiated power	0.5 W e.r.p.	Integral antenna only
Channel access and occupation rules	Duty cycle Access protocol	Maximum Transmitter time- out: 180 s	
Direction / Separation	Trans. capacity Not applicable		
Authorisation regime	Exempt from individual licens.	ing	
Add. essential requirements			
Freq. planning assumption	ECC DEC (15)05		
Planned changes			
Reference	EN 300 296; EN 301 116 ECC DEC (15)05		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

PMR

PMR446 digital

Parameter	Description		Comment
Frequency band	446 - 446.2 MHz		
Radio Service	Mobile Land Mobile		446.0 – 446.1 MHz as of 1 January 2018
Application	Land mobile PMR/PAMR PMR 446		Digital PMR 446
	Channel spacing	6.25 or 12.5 kHz	Lowest carrier frequency:
Channel /	Designation of emission		• 6.25 kHz channeling: 446.103125 MHz
modulation	Modulation / Occupied bandwidth		 12.5 kHz channeling: 446.10625 MHz Lowest carrier frequency as of 1 January 2018: 6.25 kHz channeling: 446.003125 MHz
	Reference frequency		• 12.5 kHz channeling: 446.00625 MHz
	Output power		-
Transmit power / Power density	Antenna Gain		Integral antenna only
1 offer density	Radiated power	0.5 W e.r.p.	
Channel access	Duty cycle	Maximum transmitter time- out : 180 s	-
and occupation rules	Access protocol	Not applicable	-
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	ECC DEC (15)05		
Planned changes			
Reference	EN 300 113 or EN 301 166		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

UIC

Parameter	Description		Comment
Frequency band	457.4 - 458.3 MHz		
Radio Service	Mobile		
Application	Land mobile		Railway application
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	FM; PM	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	
and	Access protocol		
occupation rules	Trans. capacity	Not defined	
Direction / Separation	10 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks	Coupled with 467.4 - 468.3 MHz		
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

UIC

Parameter	Descr	ription	Comment
Frequency band	467.4 - 468.3 MHz		
Radio Service	Mobile		
Application	Land mobile		Railway application
	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	-
Channel /	Designation of emission		-
modulation	Modulation / Occupied bandwidth	FM; PM	
	Reference frequency		
m 1/ /	Output power		
Transmit power / Power density	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access	Duty cycle	Not defined	_
and	Access protocol		_
occupation rules	Trans. capacity	Not defined	
Direction / Separation	10 MHz		
Authorisation regime	Individual licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks	Coupled with 457.4 - 458.3 MHz		
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	5875 - 5905 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	ITS		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		Intelligent Transport Systems For traffic safety appliations on a non-exclusive basis.
	bandwidth		Tor regite sujery appractions on a non-exerusive basis.
	Reference frequency		
	Output power		
	Antenna Gain		The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB.
	Radiated power	23 dBm/MHz eirp	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2008/671/EC ; ECC DEC (08)01 ; ECC Report 101 ; ECC Report 228 EN 302 571		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	5905 - 5925 MHz		
	Mobile		
	Land Mobile		
	T 1 1·1		
	Land mobile ITS		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		Intelligent Transport Systems
	bandwidth		
	Reference frequency		
	Output power		The total power shall not exceed 33 dBm eirp with a TPC
	Antenna Gain		range of 30 dB.
	Radiated power	23 dBm/MHz eirp	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (08)01 ; ECC Report 101 ; ECC Report 228 EN 302 571		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	63 - 64 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	ITS		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		Intelligent Transport Systems
	bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Max: 40 dBm eirp	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensi	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (09)01 ; ECC Report 113 ; EN 302 686		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
	5855 - 5875 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	ITS		for ITS non-safety applications
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		Intelligent Transport Systems, non safety applications
	bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB
	Radiated power	23 dBm/MHz eirp	· · ··································
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licens	ing.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC REC 08-01 ; ECC Report 101; ECC Report 228; EN 302 571		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Land mobile

Public Protection Disaster Relief

Parameter	Description		Comment
	5150 - 5250 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	PPDR		
	BBDR		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		BS: Base Station
	Radiated power	26 dBm/Mhz eirp (BS) 13 dBm/MHz eirp (UE)	UE: User Equipment
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC REC (08)04 EN 302 625		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Land mobile

Paging

Parameter	Description		Comment
	455.825 - 455.9375 MHz		Following frequencies are not allocated to paging system : 455.850/465.850 455.8875/465.8875 MHz
	Mobile		
	Land Mobile		
	Land mobile		
	Paging		
	Channel spacing	12.5 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Defined during licensing procedure	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		Mobile transmit
Authorisation regime	Individual licence required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 224		
Remarks	Coupled with 465.825-465.93	75 MHz	
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template
Land mobile

Paging

Parameter	Descr	iption	Comment
	465.825 - 465.9375 MHz		Following frequencies are not allocated to paging system : 455.850/465.850 455.8875/465.8875 MHz
	Mobile Land Mobile		
	Land mobile Paging		
	Channel spacing	12.5 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Defined during licensing procedure	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		Base station transmit
Authorisation regime	Individual licence required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 224		
Remarks	Coupled with 455.825-455.937	75 MHz	
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the TCAM RIG II template

Land mobile

Paging

47 - 47.25 MHz Mobile Land Mobile Land mobile Paging Channel spacing Designation of emis Modulation / Occubandwidth Reference frequence	ıpied	
Land Mobile Land mobile Paging Channel spacing Designation of emis Modulation / Occubandwidth Reference frequence	ssion ipied	
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Modulation / Occu bandwidth Reference frequence	ıpied	
bandwidth Reference frequence		
	ev	
	~j	
Output power		
Antenna Gain		
Radiated power	Defined during licensing procedure	
Duty cycle		
Access protocol		
Trans. capacity		
Direction / Separation		
Authorisation regime Individual licence requ	uired.	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
ReferenceEN 300 224		
Remarks		
Notification number 2009/0375/L		
Equipment class Class 2		

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Normative in accordance to the *TCAM RIG II* template

Other applications

CB

Parameter	Descr	iption	Comment
Frequency band	26.96 - 27.41 MHz		Excluding 26.995, 27.045, 27.095, 27.145 and 27.195 MHz
Radio Service	Mobile		
Application	Other CB radio DSB/SSB AM CB / CEPT PR 27		
	Channel spacing	10 kHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth	Angle modulated / DSB / SSB	
	Reference frequency		
	Output power		4 Watt for angle modulation
Transmit power / Power density	Antenna Gain		4 Watt RMS for DSB
I ower defisity	Radiated power	4 W/ 12 W	12 Watt PEP for SSB
Channel access	Duty cycle	Not applicable	
and	Access protocol	Not applicable	
occupation rules	Trans. capacity	Not applicable	
Direction / Separation	NA		
Authorisation regime	Exempt from individual licens	ing	
Add. essential requirements			
Freq. planning assumption	Intended for analogue speech.		Includes the possibility of data transmissions within the speech channel, where applicable.
Planned changes			
Reference	ECC/DEC/(11)03; EN 300 433		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Other applications

Temporary Wireless Video Links

Parameter	Descr	iption	Comment
	2010 - 2025 MHz		Commission Implementing Decision (EU) 2016/339 of 8 March 2016 on the harmonisation of the 2010-2025 MHz frequency band
	Mobile		
	Land Mobile		
	Land mobile		
	PMSE		Temporary Wireless Video Links
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		Cordless camera: -7 dBW e.i.r.p.
	Antenna Gain		Mobile video links: 10 dBW e.i.r.p.
	Radiated power	see comment	Portable video links: 16 dBW e.i.r.p.
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	NA		
Authorisation regime	Individual licence, temporary	use only	
Add. essential requirements			
Freq. planning assumption	Decision 2016/339/EU		
Planned changes			
Reference	Decision 2016/339/EU EN 302 064		
Remarks			
Notification number			
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Other applications

Temporary Wireless Video Links

Parameter	Descr	ription	Comment
	2245 - 2290 MHz		
	Mobile Land Mobile		
	Land mobile PMSE		Temporary Wireless Video Links
	Cordless cameras		
	Channel spacing	5MHz, 10 MHz, 20 MHz	
	Designation of emission	· · · · · · · · · · · · · · · · · · ·	
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Defined during licence procedure	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	NA		
Authorisation regime	Individual licence, temporary	use only	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 064		
Remarks			
Notification number			
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Other applications

Temporary Wireless Video Links

Parameter	Descr	ription	Comment
	2335 - 2395 MHz		
	Mobile Land Mobile		
	Land mobile PMSE		Temporary Wireless Video Links
	Cordless cameras		
	Channel spacing	5MHz, 10 MHz, 20 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Defined during licence procedure	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	NA		
Authorisation regime	Individual licence, temporary	use only	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 064		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Other applications

High power remote controls in PMR bands

Parameter	Descr	iption	Comment
	146 - 174 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Telemetry/Telecommand (civil)	Remote controls for example cranes, locomotives
	Channel spacing	12.5 / 20 / 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	500 mW erp	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing required		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Other applications

High power remote controls in PMR bands

Parameter	Descr	iption	Comment
	440 - 470 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Telemetry/Telecommand (civil)	Remote controls for example cranes, locomotives
	Channel spacing	12.5 / 20 / 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	500 mW erp	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing required		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descri	ption	Comment
	0.1357 - 0.1378 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	1W eirp	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ERC REC62-01 EN 301 783		
Remarks	Equipment may be operated on of a radio operator's certificate	ly by a person in possession	
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur

Parameter	Descr	iption	Comment
	0.472 - 0.479 MHz		
	Amateur		
	01		
	Other Amateur		Secondary service
			Secondary service
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	1W eirp	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur

Parameter	Descr	ription	Comment
	1.81 - 1.85 MHz		
			1810 - 1830 kHz as secondary (1) 1830 - 1850 kHz as primary (2)
	Other Amateur		
	Channel spacing		
	Designation of emission		-
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	(2) : 1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power	(1) : 10W eirp	· ······
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

F

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descri	ption	Comment
	1.85 - 2 MHz		
	Amateur		
			Secondary service
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	10W e.r.p.	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

F

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	3.5 - 3.8 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	5.3515 - 5.3665 MHz		
	Amateur		
	Other		
	Amateur		
		1	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain	15117 ·	
	Radiated power	15W e.i.r.p.	
	Duty cycle		
	Access protocol		
D'action /	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number			
Equipment class	Class 2		
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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	7 - 7.2 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for theinstallation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	10.1 - 10.15 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Amateur

Amateur

Parameter	Description		Comment
	14 - 14.35 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	18.068 - 18.168 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	21 - 21.45 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	24.89 - 24.99 MHz		
	Amateur		
	Other Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	28 - 29.7 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	50 - 52 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	70.15 - 70.25 MHz		
	Amateur		Secondary service
	Other Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	10 dBW (10W) e.r.p.	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Amateur

Amateur

Parameter	Description		Comment
	144 - 146 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	430 - 440 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Amateur

Amateur

Parameter	Descr	iption	Comment
	1240 - 1300 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

F

Amateur

Amateur

Parameter	Description		Comment
	2300 - 2450 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	3400 - 3410 MHz		
	Amateur		Secondary service
	Other Amateur		
	Channel spacing Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000₩ р.е.р.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	5650 - 5850 MHz		
	Amateur		
	Other Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		-
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	10000 - 10500 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

F

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Descr	iption	Comment
	24000 - 24250 MHz		
	Amateur		Primary service: Within the sub. band 24-24.05 GHz
			Secondary service: Within the sub. band 24.05-24.25 GHz
	Other Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		instantation is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur

Parameter	Description		Comment
	47000 - 47200 MHz		
	Amateur		
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur

Parameter	Description		Comment
	75500 - 81000 MHz		
	Amateur		Primary service: Within the sub. bands 75.5-76 GHz
			Secondary service: Within the sub. bands 76- 81 GHz
	Other Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power 1	1000W p.e.p.	
	Antenna Gain		If EIRP $> 1000W$ then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur

Parameter	Descr	iption	Comment
	134000 - 141000 MHz		
	Amateur		Primary service: Within the sub. bands 134-136 GHz
			Secondary service: Within the sub. bands 136-141 GHz
	Other Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		instantion is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur

Parameter	Description		Comment
	142000 - 149000 MHz		
	Amateur		Primary service: Within the sub. band 142-144 GHz
			Secondary service: Within the sub. band 144-149 GHz
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur

Parameter	Description		Comment
	241000 - 250000 MHz		
	Amateur		Secondary service: Within the sub. band 241-248 GHz
			Primary service: Within the sub. band 248-250 GHz
	Other		
	Amateur		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template
Amateur

Amateur-Satellite

Parameter	Description		Comment
	7 - 7.1 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for theinstallation is mandatory
	Radiated power		inclusion is manually
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

I4 - 14.25 MHE Amateur-Satellite Amateur-Satellite Statellite systems (civil) Amateur-satellite Amateur-satellite Amateur-satellite Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Antenna Gain Radiated power Direction / Sesential requirements Prec, planning assumption Reference Equipment may be operated only by a person in possession Remarks Equipment may be operated only by a person in possession Notification number 2007/351/L	Parameter	Descr	iption	Comment
Satellite systems (civil)		14 - 14.25 MHz		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Freq. planning assumption Planned changes Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/331/L		Amateur-Satellite		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Freq. planning assumption Planned changes Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/331/L				
Channel spacing Designation of emission Modulation / Occupied bandwidth Modulation / Occupied Reference frequency Image: Channel spacing bandwidth Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Duty cycle Access protocol Trans. capacity Image: Channel special autorisation for the installation is mandatory Add. essential requirements Individual Licencing Freq. planning assumption Image: Channel special autorisation is passession of a radio operated only by a person in possession of a radio operated only by a person in possession of a radio operated only by a person in possession Notification number 2007/331/L				
Designation of emission Modulation / Occupied bandwidth Reference frequency Image: Constraint of the constraint of		Amateur-satetitte		
Modulation / Occupied bandwidth Modulation / Occupied bandwidth Reference frequency Image: Constraint of the installation is mandatory Output power 1000W p.e.p. If EIRP > 1000W then a special autorisation for the installation is mandatory Antenna Gain Antenna Gain Image: Constraint of the installation is mandatory Duty cycle Access protocol Image: Constraint of the installation is mandatory Direction / Separation Image: Constraint of the installation is mandatory Image: Constraint of the installation is mandatory Add. essential requirements Image: Constraint of the installation is mandatory Image: Constraint of the installation is mandatory Freq. planning assumption Individual Licencing Image: Constraint of the installation is mandatory Image: Constraint of the installation is mandatory Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate Image: Constraint of a radio operator's certificate Image: Constraint of a radio operator's certificate Notification number 2007/351/L Image: Constraint of a radio operator's certificate Image: Constraint of a radio operator's certificate		Channel spacing		
bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Direction / Duty cycle Access protocol Trans. capacity Direction / Individual Licencing Authorisation regime Individual Licencing Freq. planning assumption Individual Licencing Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Designation of emission		
Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L				
Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Access protocol Trans. capacity Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Reference frequency		
Antenna Gan installation is mandatory Radiated power installation is mandatory Radiated power installation is mandatory Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Individual Licencing Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Output power	1000W p.e.p.	
Radiated power Access Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Antenna Gain		If $EIRP > 1000W$ then a special autorisation for the installation is mandatory
Access protocol Trans. capacity Direction / Separation Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Radiated power		instantation is manualory
Trans. capacity Direction / Separation Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Image: Comparison of the symptotic comparison of the symptotic comparison of the symptotic comparison of the symptotic comparison of a radio operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Duty cycle		
Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Individual Licencing Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Access protocol		
SeparationIndividual LicencingAuthorisation regimeIndividual LicencingAdd. essential requirementsIndividual LicencingFreq. planning assumptionIndividual LicencingFreq. planning assumptionIndividual LicencingReferenceEn 301 783ReferenceEquipment may be operated only by a person in possession of a radio operator's certificateNotification number2007/351/L		Trans. capacity		
regimeIndividual LicencingAdd. essential requirements				
requirementsFreq. planning assumptionPlanned changesReferenceEN 301 783RemarksEquipment may be operated only by a person in possession of a radio operator's certificateNotification number2007/351/L		Individual Licencing		
assumptionImage: second se				
Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L				
Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L	Planned changes			
Keinarks of a radio operator's certificate Notification number 2007/351/L	Reference	EN 301 783		
number 2007/351/L	Remarks			
		2007/351/L		
Equipment class Class 2	Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	18.068 - 18.168 MHz		
	Amateur-Satellite		
1	Catallita and an (ainil)		
	Satellite systems (civil) Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency	1000W n o n	
	Output power Antenna Gain	1000W p.e.p.	If EIRP $> 1000W$ then a special autorisation for the
	Radiated power		installation is mandatory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

	- 21.45 MHz ateur		
	ateur		
	ellite systems (civil) ateur-satellite		
	annel spacing		
	signation of emission		
Mo	odulation / Occupied bandwidth		
Ref	ference frequency		
Ou	itput power	1000W p.e.p.	
Ant	tenna Gain		If EIRP $> 1000W$ then a special autorisation for the installation is mandatory
Rad	diated power		
Dut	ity cycle		
Acc	cess protocol		
Tra	ans. capacity		
Direction / Separation			
Authorisation regime	ividual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference <i>EN</i>	EN 301 783		
	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number 200)7/351/L		
Equipment class Class	uss 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	24.89 - 24.99 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		instantation is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	28 - 29.7 MHz		
	Amateur-Satellite		
	Satellite systems (civil) Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	144 - 146 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	435 - 438 MHz		
	Amateur-Satellite		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		instantation is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	1260 - 1270 MHz		
	Amateur-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		-
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP $>$ 1000W then a special autorisation for the installation is mandatory
	Radiated power		instantation is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	2400 - 2450 MHz		
	Amateur-Satellite		
	a 11. (1)		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power	1000W р.е.р.	
	Antenna Gain		<i>If EIRP</i> > 1000 <i>W</i> then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	5650 - 5670 MHz		
	Amateur-Satellite (Earth-to-space)		
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		-
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP $>$ 1000W then a special autorisation for the installation is mandatory
	Radiated power		instantation is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	5830 - 5850 MHz		
	Amateur-Satellite (space-to-Ed	arth)	
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		-
	bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP $>$ 1000W then a special autorisation for the installation is mandatory
	Radiated power		instantation is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

10450 - 10500 MHz Amateur-Satellite Satellite systems (civil) Amateur-Satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Freq. planning assumption Planned changes Reference Explanements Explanements Freq. planning assumption Planned changes Reference Explanement may be operated only by a person in possession of a radio operator's certificate	Parameter	Description		Comment
Satellite systems (civil) Amateur-satellite Amateur-satellite Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Antenna Gain Radiated power Direction / Radiated power Direction / Separation If EIRP > 1000W then a special autorisation for the installation is mandatory Birection / Separation Individual Licencing Add. essential requirements Free, planning assumption Planned changes Reference En 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate		10450 - 10500 MHz		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Separation Individual Licencing Add. essential requirements Freq. planning assumption Planned changes Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate		Amateur-Satellite		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Separation Individual Licencing Add. essential requirements Freq. planning assumption Planned changes Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate				
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Separation Individual Licencing Add. essential requirements Freq. planning assumption Planned changes Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate		Satellite systems (civil)		
Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Planned changes Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate				
Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Planned changes Reference E.N 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate				
Modulation / Occupied bandwidth Modulation / Occupied bandwidth Reference frequency 000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Duty cycle Access protocol Trans. capacity Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Freq. planning assumption Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate		Channel spacing		
bandwidth head Reference frequency 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Direction / Trans. capacity Direction / If EIRP > 1000W then a special autorisation for the installation is mandatory Authorisation Trans. capacity Direction / If Eirep is a special autorisation for the installation is mandatory Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes If Eirep is a person in possession of a radio operator's certificate		Designation of emission		
Reference frequency Image: Content of the installation of the installation is mandatory Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Reference Equipment may be operated only by a person in possession of a radio operator's certificate Individual certificate				
Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Planned changes Reference En 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate				
Antenna Gan installation is mandatory Radiated power installation is mandatory Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Freq. planning assumption Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate			1000W p.e.p.	
Radiated power Addiated power Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Freq. planning Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate		Antenna Gain		If $EIRP > 1000W$ then a special autorisation for the installation is mandatory.
Access protocol Trans. capacity Direction / Separation Capacity Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Evaluation Planned changes Environment Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate		Radiated power		instantation is manualory
Trans. capacity Direction / Separation Trans. capacity Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Evaluation Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate		Duty cycle		
Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Image: Comparison of the system of the s		Access protocol		
SeparationIndividual LicencingAuthorisation regimeIndividual LicencingAdd. essential requirementsIndividual LicencingFreq. planning assumptionIndividual LicencingPlanned changesIndividual LicencingReferenceEN 301 783RemarksEquipment may be operated only by a person in possession of a radio operator's certificate		Trans. capacity		
regimeIndividual LicencingAdd. essential requirementsImage: Constraint of the second s				
requirements Image: Constraint of the second se		Individual Licencing		
assumption Image: Constraint of the system of the syst				
Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate				
Remarks Equipment may be operated only by a person in possession of a radio operator's certificate	Planned changes			
Keinarks of a radio operator's certificate	Reference	EN 301 783		
	Remarks			
Notification number 2007/351/L	Notification number	2007/351/L		
Equipment class Class 2	Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

24000 - 24050 MHz Amateur-Satellite Satellite systems (civil) Amateur-satellite Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Authorisation regime Add. essential Free, blanning	Parameter	Description		Comment
Satellite systems (civil) Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Image: Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Authorisation Individual Licencing Add. essential requirements		24000 - 24050 MHz		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Image: Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Authorisation Individual Licencing Add. essential requirements		Amateur-Satellite		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Image: Antenna Gain Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Authorisation Individual Licencing Add. essential requirements				
Designation of emission Modulation / Occupied bandwidth Reference frequency Output power Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Authorisation Individual Licencing Add. essential requirements				
Modulation / Occupied bandwidth Modulation Output power Reference frequency 1000W p.e.p. If EIRP > 1000W then a special autorisation for the installation is mandatory Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing		Channel spacing		
bandwidth Reference frequency Image: mathematical system Output power 1000W p.e.p. Antenna Gain Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Duty cycle Access protocol Trans. capacity Image: mathematical system Direction / Separation Image: mathematical system Authorisation regime Individual Licencing Add. essential requirements Image: mathematical system		Designation of emission		
Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing				
Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Access protocol Trans. capacity Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing		Reference frequency		
Antenna Gan installation is mandatory Radiated power installation is mandatory Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Add. essential requirements Individual Licencing		Output power	1000W p.e.p.	
Radiated power Duty cycle Access protocol Access protocol Trans. capacity Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing		Antenna Gain		If EIRP $> 1000W$ then a special autorisation for the installation is mandatory
Access protocol Trans. capacity Direction / Separation Authorisation regime Individual Licencing Add. essential requirements Individual Licencing		Radiated power		
Trans. capacity Direction / Separation Authorisation regime Individual Licencing Add. essential requirements Individual Licencing		Duty cycle		
Direction / Separation Image: Separation Authorisation regime Individual Licencing Add. essential requirements Individual Licencing		Access protocol		
Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing		Trans. capacity		
regime Individual Licencing Add. essential requirements Image: Constraint of the second seco				
requirements		Individual Licencing		
Freq, planning				
assumption	Freq. planning assumption			
Planned changes	Planned changes			
Reference EN 301 783	Reference	EN 301 783		
Remarks Equipment may be operated only by a person in possession of a radio operator's certificate	Remarks			
Notification number 2007/351/L		2007/351/L		
Equipment class Class 2	Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

47000 - 47200 MHz Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Amateur-Satellite Designation of emission Modulation / Occupied bandwidth Reference frequency Modulation / Occupied bandwidth Reference frequency 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Installation is mandatory Direction / Access protocol Trans. capacity Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Individual Licencing Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007351/L	Parameter	Description		Comment
Satellite systems (civil)		47000 - 47200 MHz		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/331/L		Amateur-Satellite		
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/331/L				
Amateur-satellite Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency Output power 1000W p.e.p. Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/331/L				
Channel spacing Designation of emission Modulation / Occupied bandwidth Modulation / Occupied bandwidth Reference frequency If EIRP > 1000W then a special autorisation for the installation is mandatory Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power If EIRP > 1000W then a special autorisation for the installation is mandatory Duty cycle Access protocol Trans. capacity If andividual Licencing Add. essential requirements Individual Licencing Freq. planning assumption If elames Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/331/L				
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Antenna Gain If EIRP > 1000W then a special autorisation for the installation is mandatory Radiated power Duty cycle Access protocol Access protocol Trans. capacity Trans. capacity Direction / separation Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Reference E N 301 783 Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Reference frequency		
Antenna Gan installation is mandatory Radiated power installation is mandatory Radiated power installation is mandatory Duty cycle Access protocol Access protocol Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Individual Licencing Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Output power	1000W p.e.p.	
Radiated power Access protocol Access protocol Access protocol Trans. capacity Trans. capacity Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Antenna Gain		
Access protocol Trans. capacity Direction / Separation Authorisation regime Individual Licencing Add. essential Individual Licencing Freq. planning Image: Color of the second color of the seco		Radiated power		·
Trans. capacity Direction / Separation Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Image: Comparison of the symptotic comparison of the symptotic comparison of a radio operated only by a person in possession of a radio operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Duty cycle		
Direction / Separation Individual Licencing Authorisation regime Individual Licencing Add. essential requirements Individual Licencing Freq. planning assumption Individual Licencing Planned changes Individual Licencing Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L		Access protocol		
SeparationIndividual LicencingAuthorisation regimeIndividual LicencingAdd. essential requirementsIndividual LicencingFreq. planning assumptionIndividual LicencingFreq. planning assumptionIndividual LicencingReferenceEn 301 783ReferenceEquipment may be operated only by a person in possession of a radio operator's certificateNotification number2007/351/L		Trans. capacity		
regimeIndividual LicencingAdd. essential requirementsImage: Constraint of the second s				
requirementsFreq. planning assumptionPlanned changesReferenceEN 301 783RemarksEquipment may be operated only by a person in possession of a radio operator's certificateNotification number2007/351/L		Individual Licencing		
assumptionImage: second se				
Reference EN 301 783 Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L				
Remarks Equipment may be operated only by a person in possession of a radio operator's certificate Notification number 2007/351/L	Planned changes			
Notification number 2007/351/L	Reference	EN 301 783		
number	Remarks			
		2007/351/L		
Equipment class Class 2	Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	75500 - 81000 MHz		
	Amateur-Satellite		Primary service:
			Within the sub. bands 75.5-76 GHz
			Secondary service: Within the sub. bands 76- 81 GHz
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	134000 - 141000 MHz		
	Amateur-Satellite		Primary service:
			Within the sub. bands 134-136 GHz
			Secondary service: Within the sub. bands 136-141 GHz
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
r	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	142000 - 149000 MHz		
	Amateur-Satellite		Primary service:
			Within the sub. band 142-144 GHz
			Secondary service: Within the sub. band 144-149 GHz
	Satellite systems (civil)		
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		· · · · · · · · · · · · · · · · · · ·
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the TCAM RIG II template

Amateur

Amateur-Satellite

Parameter	Description		Comment
	241000 - 250000 MHz		
	Amateur-Satellite		Secondary service:
			Within the sub. band 241-248 GHz
			Primary service: Within the sub, band 248-250 GHz
	Satellite systems (civil)		within the sub. bana 248-250 GHz
	Amateur-satellite		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
r.	Output power	1000W p.e.p.	
	Antenna Gain		If EIRP > 1000W then a special autorisation for the installation is mandatory
	Radiated power		instantation is manualory
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Aeronautical Mobile

Aeronautical VHF-Direction Finder

Parameter	Descr	iption	Comment
	117.975 - 137 MHz		This frequency range is managed by the frequency management group of ICAO
	Mobile		
	Aeronautical Mobile		
	Aeronautical		
	Aeronautical navigation		Direction Finder for VHF COM 8.33/25 kHz
	VOR		
	Channel spacing	8.33/25kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle less 10%		
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 EN 300 676		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume III and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Mobile

Aeronautical Communications

Parameter	Descr	iption	Comment
Frequency band	117.975 - 137 MHz		<i>This frequency range is managed by the frequency management group of ICAO</i>
Radio Service	Mobile Aeronautical Mobile		
Application	Aeronautical Aeronautical communications		Voice Communication, VHF COM 8.33/25 kHz
	Channel spacing	8.33/25 kHz	
	Designation of emission	VHF COM	
Channel / modulation	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
	Output power	50W	
Transmit power / Power density	Antenna Gain 0dB		
rower density	Radiated power	35W	
Channel access	Duty cycle	less 10%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 EN 300 676		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume III, Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Mobile

Aeronautical Communication Receiver

Parameter	Descr	iption	Comment
	117.975 - 137 MHz		This frequency range is managed by the frequency management group of ICAO
	Mobile Aeronautical Mobile		
	Aeronautical Aeronautical communications		Voice Communication, VHF COM 8.33/25 kHz
	Channel spacing	8.33/25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle less 10%		
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 EN 300 676		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume III and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Radionavigation

ILS

Parameter	Descr	iption	Comment
	108 - 111.975 MHz		<i>This frequency range is managed by the frequency management group of ICAO</i>
	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		
	Aeronautical navigation		Ground equipment Localizer and Glidepath
	ILS		
	Channel spacing	50 kHz in VHF band 150 kHz in UHF band	
	Designation of emission		ICAO Annexe 10, Volume I
	Modulation / Occupied bandwidth	A3E	ICAO Doc 7754
	Reference frequency		
	Output power	According ICAO Annexe 10, Volume I	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
	EN 60950		Electrical safety
Reference	- ICAO Annexe 10, Volume I		EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 328.6 - 335.4 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Radionavigation

ILS

Parameter	Descr	iption	Comment
	328.6 - 335.4 MHz		<i>This frequency range is managed by the frequency management group of ICAO</i>
	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		
	Aeronautical navigation		Ground equipment Localizer and Glidepath
	ILS		
	Channel spacing	50 kHz in VHF band 150 kHz in UHF band	
	Designation of emission		ICAO Annexe 10, Volume I
	Modulation / Occupied bandwidth	A3E	ICAO Doc 7754
	Reference frequency		-
	Output power	According ICAO Annexe 10, Volume I	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		-
	Trans. capacity		-
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
	EN 60950		Electrical safety
Reference	- ICAO Annexe 10, Volume I		EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 108 - 111.975 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Radionavigation

VOR

Parameter	Descr	iption	Comment
Frequency band	108 - 111.975 MHz		<i>This frequency range is managed by the frequency management group of ICAO</i>
	Radiodetermination		
Radio Service	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		VHF Omnidirectional radio range (VOR) Doppler VOR
Application	Aeronautical navigation		(DVOR)
	VOR	1	
	Channel spacing	50 kHz	
Channel /	Designation of emission		-
modulation	Modulation / Occupied bandwidth	AM / FM	
	Reference frequency		
Transmit power /	Output power	According ICAO Annexe 10, Volume I, chapter 3.3	
Power density	Antenna Gain		
	Radiated power		
Channel access	Duty cycle	100%	
and	Access protocol		
occupation rules	Trans. capacity		-
Direction / Separation			
Authorisation regime	Individual licensing procedure	2	
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I an	d Volume V	
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED 52		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 111.975 - 117.975 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Radionavigation

VOR

Parameter	Descr	iption	Comment
Frequency band	111.975 - 117.975 MHz		<i>This frequency range is managed by the frequency management group of ICAO</i>
	Radiodetermination		
Radio Service	Radionavigation		
	Aeronautical Radionavigation	1	
	Aeronautical		VHF Omnidirectional radio range (VOR) Doppler VOR
Application	Aeronautical navigation VOR		(DVOR)
	Channel spacing	50 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	AM / FM	
	Reference frequency		
Transmit power /	Output power	According ICAO Annexe 10, Volume I, chapter 3.3	
Power density	Antenna Gain		
	Radiated power		
Channel access	Duty cycle	100%	-
and	Access protocol		-
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure	2	
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I an	d Volume V	
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED 52		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 108 - 111.975 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Radionavigation

Beacons (aeronautical)

Parameter	Description		Comment
Frequency band	0.3 - 0.405 MHz		Frequency coordination by ICAO
	Radiodetermination		
Radio Service	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		
Application	Aeronautical navigation		Non-directional beacons (NDB)
	Beacons (aeronautical)		
	Channel spacing		
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	A2A	
	Reference frequency		
Transmit power /	Output power	According ICAO Annexe 10, Volume I	
Power density	Antenna Gain		
	Radiated power		
Channel access	Duty cycle	100%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I an	d Volume V	
Planned changes			
Reference	EN 60950 EN 55022 ICAO Annexe 10 Volume I		Electrical safety EMC Effective use of spectrum Additional requierements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Radionavigation

DME

Parameter	Descr	iption	Comment
Frequency band	960 - 1215 MHz		<i>This frequency range is managed by the frequency management group of ICAO</i>
Radio Service	Radiodetermination Radionavigation Aeronautical Radionavigation		
Application	Aeronautical Aeronautical navigation DME		Distance Measuring Equipment
	Channel spacing	1 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	-	
	Reference frequency		
Transmit power /	Output power	1 kW peak (en route transponder) 80 W peak DME/P	
Power density	Antenna Gain	6dB	
	Radiated power		
Channel access	Duty cycle	ICAO Annexe 10, Volume I	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation	63 MHz		
Authorisation regime	Individual licensing procedure	2	
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I an	d Volume V	
Planned changes			
Reference	EN 60950 EN 55022 Eurocae ED57		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Aeronautical Surveillance

Emergency Locator Transmitter (ELT)

Parameter	Descr	iption	Comment
	242.95 - 243.05 MHz		
	Mobile		
	Aeronautical Mobile		
	Aeronautical		
	Aeronautical surveillance		Emergency Locator Transmitter (ELT)
	Channel spacing		
	Designation of emission	A3E	
	Modulation / Occupied bandwidth	A3E	
	Reference frequency	243 MHz	
	Output power		
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Eurocae ED-62		Minimum operational performance specification for Aircraft Emergency Locator Transmitter
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the TCAM RIG II template

Aeronautical Surveillance

Monopulse Secondary interrogator Radar

Parameter	Descr	iption	Comment
	1030 - 1090 MHz		Frequency allocated to Secondary Radars ICAO
	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		
	Aeronautical surveillance		Airplane detection and ranging
	Channel spacing		
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power	2 kW peak	
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power		
Channel access	Duty cycle	6%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation	60%		
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED52		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume II and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Surveillance

Monopulse Mode-S Secondary interrogator Radar

Parameter	Descr	iption	Comment
	1030 - 1090 MHz		Frequency allocated to Secondary Radars ICAO
	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		
	Aeronautical surveillance		Airplane detection and ranging Mode-S
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	2 kW peak	
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power		
Channel access	Duty cycle	66%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation	60 MHz		
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED52		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume II, Volume V and Eurocontro

Normative in accordance to the *TCAM RIG II* template

Aeronautical Surveillance

Mode-S test interrogator

Parameter	Description		Comment
	1030 - 1090 MHz		Frequency allocated to Secondary Radars ICAO
	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		
	Aeronautical surveillance		Monitoring of Mode-S equipments
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	1 W peak	
Transmit power / Power density	Antenna Gain		
I ower density	Radiated power		
Channel access	Duty cycle	1%	
and	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation	60 MHz		
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED57 E061-04-1234TD		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10 Volume II and Eurocontrol specifica

Normative in accordance to the *TCAM RIG II* template

Aeronautical Surveillance

Primary surveillance Radar

Parameter	Description		Comment
	2700 - 2900 MHz		Frequency allocated to Primary Radar ICAO
	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
	Aeronautical		
	Aeronautical surveillance		Airplane detection and ranging PSR
	Primary radar		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power /	Output power	(1) 1 MW pulse (2) 18kW pulse compression	
Power density	Antenna Gain	ICAO Annexe 10, Volume II	
	Radiated power		
Channel access	Duty cycle	(1) 0.18% (2) 1.1%	
and occupation rules	Access protocol		
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 60950 EN 55022 Eurocae ED57		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume II and Volume V

Normative in accordance to the *TCAM RIG II* template

Aeronautical Surveillance

A-SMGCS

	0000 - 9200 MHz		
R			
	Radiodetermination		
R	Radionavigation		
A	Ieronautical Radionavigation		
	1eronautical		
	leronautical surveillance		Advanced Surface Movement Guidance and Control System
	~		
	Channel spacing		
	Designation of emission		
r	Modulation / Occupied bandwidth		
R	Reference frequency		
C	Output power	<= 50 dBW (PEP)	
A	Antenna Gain		
R	Radiated power		
D	Duty cycle		
Α	Access protocol		
Т	Frans. capacity		
Direction / Separation			
Authorisation regime	ndividual licensing		
Add. essential requirements			
Freq. planning assumption	Limits for Out-of-band and spurious emissions according to EN 303 213-6 apply.		
Planned changes			
Reference	EN 303 213		
Remarks			
Notification number 20	2015/12/L		
Equipment class C	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Aeronautical Surveillance

ADS

Parameter	Description	Comment
	1030 - 1090 MHz	
	Radiodetermination	
	Radionavigation	
	Aeronautical Radionavigation	
	Aeronautical	
	Aeronautical surveillance	
	ADS	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		
Authorisation regime	Individual licensing regime	
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EUROCAE ED117	
Remarks		
Notification number	2010/378/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template
Informative in accordance to the *TCAM RIG II* template

Maritime equipment

Parameter	Descr	iption	Comment
	0.518 - 0.518 MHz		
	Mobile		
	Maritime Mobile		
	Maritime		Navtex equipment. No application on the territory of Luxembourg, but on ships
	GMDSS		navigating in maritime waters under the flag of
	NAVTEX		Luxembourg.
	Channel spacing	not defined	
	Designation of emission	F1B	
	Modulation / Occupied bandwidth	F1B	
	Reference frequency	518 kHz	
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 300 065		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template
Maritime equipment

Parameter	Descr	iption	Comment
	1.605 - 4 MHz		
	Mobile		
	Maritime Mobile		Usage for radio telephony and digital selective calling (DSC)
	Maritime Mobile (distress and	safety)	
	Maritime		<i>Fixed MF/HF equipment on board of ship stations.</i> <i>No application on the territory of Luxembourg, but on ships</i>
	GMDSS		no application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.
	Channel spacing		
	Designation of emission		J3E for telephony
	Modulation / Occupied bandwidth	J3E;J2B;F1B	J2B for DSC F1B
	Reference frequency		
	Output power	400 W	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	ETS 300 373; EN 300 338		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	1.605 - 4 MHz		
	Mobile		
	Maritime Mobile		Usage for radiotelex and narrow-band direct printing (NBDP)
	Maritime Mobile (distress and	safety)	
	Maritime		Fixed MF/HF equipment on board of ship stations.
	GMDSS		No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of
		1	Luxembourg.
	Channel spacing		-
	Designation of emission		_
	Modulation / Occupied bandwidth	F1B, J2B	F1B, J2B for radiotelex
	Reference frequency		
	Output power	400 W	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		-
	Trans. capacity		-
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	ETS 300 373		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	4 - 27.5 MHz		
	Mobile Maritime Mobile		Usage for radio telephony and digital selective calling (DSC)
	GMDSS		Fixed HF equipment on board of ship stations. No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.
	Channel spacing		
	Designation of emission		J3E for telephony
	Modulation / Occupied bandwidth	J3E;J2B;F1B	J2B for DSC F1B
	Reference frequency		
	Output power	1 500 W	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	ETS 300 373; EN 300 338		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	4 - 27.5 MHz		
	Mobile		
	Maritime Mobile		Usage for radiotelex and narrow-band direct printing (NBDP)
	Maritime Mobile (distress and	(safety)	
	Maritime		Fixed HF equipment on board of ship stations. No application on the territory of Luxembourg, but on ships
	GMDSS		 navigating in maritime waters under the flag of Luxembourg.
	Channel spacing		
	Designation of emission		-
	Modulation / Occupied bandwidth	F1B, J2B	F1B, J2B for radiotelex
	Reference frequency		
	Output power	1 500 W	
	Antenna Gain		
	Radiated power		
	Duty cycle		_
	Access protocol		_
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	ETS 300 373		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	ription	Comment
	156 - 163 MHz		
	Mobile		_
	Maritime Mobile		_
	Maritime Mobile (distress and	l safety)	
	Maritime		Survival craft portable VHF radiotelephone apparatus. No application on the territory of Luxembourg, but on ships
	GMDSS		no application on the territory of Luxembourg, but on snips navigating in maritime waters under the flag of Luxembourg.
	Channel spacing	25 kHz	
	Designation of emission	16K0G3E	_
	Modulation / Occupied bandwidth	G3E	G3E for telephony
	Reference frequency		
	Output power	1 W; 6W	
	Antenna Gain		-
	Radiated power		-
	Duty cycle		
	Access protocol		
	Trans. capacity		-
Direction / Separation	4.6 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU Decision 2000/637/EC (ATIS/AIS)		Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiotelephone service on inland waterways.
Freq. planning assumption	ITU App.18		
Planned changes			
Reference	ETS 300 225		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	156 - 163 MHz		
	Mobile		
	Maritime Mobile		
	Maritime Mobile (distress and	safety)	
	Maritime		Fixed VHF equipment on board of ship stations
	GMDSS		No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of
			Luxembourg.
	Channel spacing	25 kHz	
	Designation of emission	16K0G3E	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
	Output power	1 W; 25 W	
	Antenna Gain		25 W, but with possibility to be reduced to max. 1 W (manually).
	Radiated power	max 25 W e.r.p.	(
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU App.18		
Planned changes			
Reference	EN 301 466; EN 300 162		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	156 - 163 MHz		
	Mobile Maritime Mobile Maritime Mobile (distress and safety)		-
	Maritime GMDSS DSC		 Fixed VHF equipment on board of ship stations with DSC Class D on ch 70. No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.
	Channel spacing	25 kHz	
	Designation of emission	16K0G2B	
	Modulation / Occupied bandwidth	G2B	G2B for DSC usage on ch70
	Reference frequency		-
	Output power	1 W; 25 W	
	Antenna Gain		25 W, but with possibility to be reduced to max. 1 W (manually).
	Radiated power	max 25 W e.r.p.	
	Duty cycle		
	Access protocol		-
	Trans. capacity		-
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU App.18		
Planned changes			
Reference	EN 301 025; EN 300 338; IEC 62238		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	156 - 163 MHz		
	Mobile		
	Maritime Mobile		
	Maritime Mobile (distress, saf	fety and calling)	
	Maritime		Handheld VHF equipment on board of ship stations with
	GMDSS		<i>DSC Class D on ch 70.</i> <i> No application on the territory of Luxembourg, but on ships</i>
	DSC		navigating in maritime waters under the flag of Luxembourg.
	Channel spacing	25 kHz	
	Designation of emission	16K0G2B	
	Modulation / Occupied bandwidth	FSK/16kHz	G2B for DSC usage on ch70
	Reference frequency		
	Output power	max 6W	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ITU App.18		
Planned changes			
Reference	EN 302 885		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Maritime equipment

Parameter	Descr	iption	Comment
1	156 - 163 MHz		
r	Mobile		
	Maritime Mobile		
ı			
	Maritime		Portable VHF equipment on board of ship station (maritime and Inland waterways).
	Maritime communications		Inland waterways:
	On-board communications		* Usage limited to the channels 15 and/or 17 (on board communications). * ATIS should be encoded.
	Channel spacing	25 kHz	
	Designation of emission	16K0G3E	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
	Output power	0.1 - 1 W; 1 W; 6 W	Maritime:
	Antenna Gain		6 W, but with possibility to be reduced to max. 1 W. Inland waterways:
	Radiated power		0.1 - 1 W
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2000/637/EC (ATIS)		Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiocommunications services on inland waterways.
Freq. planning assumption	ITU App.18 Rainwat Arrangment 2012		
Planned changes			
Reference	EN 301 178; EN 300 698		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Description		Comment
	156 - 163 MHz		
	Mobile		
	Maritime Mobile		
	Maritime		Fixed VHF equipment on board of ship stations (maritime
	Maritime communications		and Inland waterways).
	Inland waterway communicati		
	Channel spacing	25 kHz	
	Designation of emission	16K0G3E	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
	Output power	1 W; 25 W	
	Antenna Gain		25 W, but with possibility to be reduced to max. 1 W (manually and automatically).
	Radiated power	max 25 W e.r.p.	(
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2000/637/EC (ATIS)		Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiocommunications services on inland waterways.
Freq. planning assumption	ITU App.18, Rainwat Arrangment 2012		
Planned changes			
Reference	EN 300 698		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	156 - 163 MHz		
	Mobile		
	Maritime Mobile		
	Maritime Mobile (distress and	'safety)	
	Maritime		
	Maritime communications		VHF coast station for inland waterways
	Inland waterway communicati	ons	
	Channel spacing	25 kHz; 12.5 kHz	
	Designation of emission	G3E	
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power	as defined by ETSI standard	
	Antenna Gain		
	Radiated power	as defined by ETSI standard	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes	ITU App.18, Rainwat Arrangn	nent 2012	
Reference	EN 301 929		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2013/632/L		
Equipment class	Class 2		

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Normative in accordance to the *TCAM RIG II* template

Maritime equipment

Parameter	Descr	iption	Comment
Frequency band	161.975 - 161.975 MHz		AISI
	Mobile		
Radio Service	Maritime Mobile		
	Maritime		
Application	Maritime communications		RIS (River Information Services) for Inland waterways
	AIS	1	
	Channel spacing	25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	GMSK/FM	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
Tower density	Radiated power	12.5W max	
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Licence is necessary as well as attribution of an MMSI number		
Add. essential requirements	For radio equipement intendir Commission Decision 2005/53		
Freq. planning assumption	according to ITU channeling and CEPT/ERC/DEC(99)17 Rainwat Arrangment 2012		
Planned changes			
Reference	IEC62287,IEC 62320, ITU-R M.1371		
Remarks	see comment		For radio equipment intending to participate in RIS (River Information services), the directive 2005/44/EC (RIS directive) applies.
Notification number	2009/0375/L		
Equipment class			

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 10 July 2014

Maritime equipment

Parameter	Descr	iption	Comment
Frequency band	162.025 - 162.025 MHz		AIS2
Radio Service	Mobile Maritime Mobile		
Application	Maritime Maritime communications AIS		RIS (River Information Services) for Inland waterways
	Channel spacing	25 kHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	GMSK/FM	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		
	Radiated power	12.5W max	
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation			
Authorisation regime	Licence is necessary as well as attribution of an MMSI number		
Add. essential requirements	For radio equipement intendin Commission Decision 2005/53	g to participate in AIS, /EC applies.	
Freq. planning assumption	according to ITU channeling a Rainwat Arrangment 2012	and CEPT/ERC/DEC(99)17	
Planned changes			
Reference	IEC62287, IEC 62320, ITU-R M.1371		
Remarks	see comment		For radio equipment intending to participate in RIS (River Information services), the directive 2005/44/EC (RIS directive) applies.
Notification number	2009/0375/L		
Equipment class			

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Normative in accordance to the *TCAM RIG II* template

Maritime equipment

Parameter	Descr	iption	Comment
	457.5125 - 467.5875 MHz		
	Mobile		
	Maritime Mobile		
	Maritime		Portable UHF equipment. No application on the territory of Luxembourg, but on ships
	Maritime communications		navigating in maritime waters under the flag of
	On-board communications	[Luxembourg.
	Channel spacing	12.5 kHz, 25 kHz	
	Designation of emission	16K0G3E 8K00G3E	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
	Output power	Maritime: 0.4 - 2 W	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 300 720		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	2900 - 3100 MHz		
	Radiodetermination		
	Radionavigation		
	Maritime Radionavigation (ra	diobeacons)	
	Maritime		
	Maritime navigation		s-band maritime radar equipment
	Maritime radar	1	
	Channel spacing	not defined	
	Designation of emission	P0N	
	Modulation / Occupied bandwidth	PON	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	max. 32 MW e.i.r.p. peak	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	IEC 62388, EN 60945, EN 62252, EN 60936		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Descr	iption	Comment
	9200 - 9500 MHz		
	Radiodetermination		
	Radiolocation		
-			
	Maritime		SART equipment. No application on the territory of Luxembourg, but on ships
	GMDSS		navigating in maritime waters under the flag of
		r	Luxembourg.
	Channel spacing	not defined	
	Designation of emission	P0N	
	Modulation / Occupied bandwidth	PON	
	Reference frequency		
	Output power	> 400 mW (+26 dBm)	
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	IEC 1097-1, EN 302 248		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Maritime equipment

Parameter	Description		Comment
	9320 - 9500 MHz		
	Radiodetermination		
	Radionavigation		
	Maritime Radionavigation (ra	diobeacons)	
	Maritime		
	Maritime navigation		<i>x</i> -band radar equipment (maritime + inland waterways).
	Maritime radar	Γ	
	Channel spacing	not defined	
	Designation of emission	P0N	
	Modulation / Occupied bandwidth	PON	
	Reference frequency		
	Output power		
	Antenna Gain		* max 100 MW eirp peak for maritime radars
	Radiated power	max. 10/100 MW e.i.r.p. peak	* max 10 MW eirp peak for inland waterway radars
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ITU Regulations Rainwat Arrangment 2012		
Planned changes			
Reference	IEC 62388, EN 302 194, EN 302 248, EN 60945, EN 62252, EN 60936		
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	1350 - 1375 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
	Channel spacing	25 kHz; 75 kHz; 250 kHz; 500 kHz; 1 MHz; 2 MHz; 3.5 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 433.5 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	142 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	dividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1492 - 1517 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	1492 - 1517 MHz		
Radio Service	Fixed		
	Fixed		
Application	Point-to-Point		<i>This band is foreseen for point-to-point fixed links applications.</i>
	Channel spacing	25 kHz; 75 kHz; 250 kHz; 500 kHz; 1 MHz; 2 MHz; 3.5 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 433.5 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	142 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, ir assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1350 - 1375 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	1375 - 1400 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
	Channel spacing	25 kHz, 75 kHz, 250 kHz, 500 kHz; 1MHz; 2 MHz; 3.5 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 413.5 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	52 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1427 - 1452 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	1427 - 1452 MHz		
Radio Service	Fixed		
	Fixed		
Application	Point-to-Point		<i>This band is foreseen for point-to-point fixed links applications.</i>
	Channel spacing	25 kHz, 75 kHz, 250 kHz, 500 kHz; 1MHz; 2 MHz; 3.5 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 413.5 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
	Duty cycle		
Channel access and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	52 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, ir assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1375 - 1400 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	5925 - 6425 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	29.65 MHz, 59.3 MHz digital at least 4 states modulation 6 175 MHz	
Transmit power / Power density	Output power Antenna Gain Radiated power	as defined by the ETSI standard as defined by the ETSI standard	
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	as defined by the ETSI standard	
Direction / Separation	252.04 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 14-01		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	6425 - 7125 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5, 7, 14, 20, 30, 40, 60, 80 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 16 states modulation	
	Reference frequency	6 770 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	340 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 14-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	7125 - 7425 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	7 275 MHz	
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	154 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ECC REC 02-06		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	7425 - 7725 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz;	
		14 MHz; 28 MHz; 56 MHz	
Channel / modulation	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	7 575 MHz	
m to (Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	154 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ECC REC 02-06 ITU REC F.385-9		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	7725 - 8275 MHz		
Radio Service	Fixed		
	Fixed		
Application	Point-to-Point		
	Channel spacing	7, 14, 28 MHz	
	Designation of emission		
Channel / modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	8 000 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	283.5 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ITU REC. F.386-8, ECC/REC(02)06		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	8275 - 8500 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	14 MHz; 28 MHz digital at least 4 states modulation	
	Reference frequency	8 387.5 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	119 MHz; 126 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ECC REC (02)06 ITU REC. F.386-8		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	10150 - 10680 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	11 701 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	350 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-05		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	12750 - 13250 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	12 996 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	266 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, ir assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-02		
Planned changes			
Reference	302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	14500 - 14620 MHz		Harmonised NATO band
Radio Service	Fixed		
	Fixed		
Application	Point-to-Point		
	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	14 924 MHz	
T i (Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	728 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-07		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 15.23 - 15.35 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	15230 - 15350 MHz		Harmonised NATO band
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	14 924 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	728 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-07		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 14.5 - 14.62 GH	z	
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	17700 - 19700 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		Application only if sharing according to DEC (00)07 is possible. Interoperator agreement necessary.
	Channel spacing	3.5 MHz; 7 MHz; 13.75 MHz; 27.5 MHz; 55 MHz; 110 MHz	
Channel / modulation	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	18 700 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 010 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-03 ITU REC F.595-10		
Planned changes			
Reference	EN 302 217		
Remarks	_		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	22000 - 22600 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	21 196 MHz	
T (Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 23 - 23.6 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	23000 - 23600 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	21 196 MHz	
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, ir assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 22 - 22.6 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	24500 - 25500 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	25 501 MHz	
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, ir assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 25.5 - 26.5 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	25500 - 26500 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	25 501 MHz	
T (Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 24.5 - 25.5 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template
Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	27500 - 29500 MHz		<i>P-P allowed in the frequency band of 27.5-29.5 GHz according to ECC DEC (05)01</i>
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	28 500.5 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	31000 - 31300 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	31 000 MHz	
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD : None ; FDD : 140 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ECC REC 02-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	31800 - 33400 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	32 599 MHz	
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD, FDD :812 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 01-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	37000 - 39500 MHz		Sub-bands: 37 - 37.124 GHz / 38.26 - 38.402 GHz for unplanned, uncoordinated fixed links
Radio Service	Fixed		
Application	Fixed Point-to-Point		In the band 37.5-39.2 GHz sharing with FSS, according to ERC DEC (00)02
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	38 248 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 260 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	dividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 12-01 ERC DEC (00)02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	48500 - 50200 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital	
	Reference frequency	49 350 MHz	
	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	884 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-10		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	51400 - 52600 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
Channel /	Designation of emission		-
modulation	Modulation / Occupied bandwidth	digital	
	Reference frequency	51 412 MHz	
T (Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		_
and	Access protocol		_
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	616 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-11		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	55780 - 57000 MHz		
Radio Service	Fixed		
	Fixed		
Application	Point-to-Point		
	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital	
	Reference frequency	TDD : 55 786 MHz FDD : 55 814 MHz	
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD : None ; FDD : 616 MH	Ζ	
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ERC REC 12-12		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	57000 - 64000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
	Channel spacing	from 50 MHz up to 2500 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital	
	Reference frequency	56 950 MHz	
T (Output power	as defined by the ETSI standard	-
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	-
	Radiated power		
Channel access	Duty cycle		_
and	Access protocol		_
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD/FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	ECC/REC (09)01		
Planned changes			
Reference			
Remarks	EN 302 217		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	64000 - 66000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications
	Channel spacing	from 50 MHz up to 2500 MHz	_
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital	
	Reference frequency		
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	_
	Radiated power		
Channel access	Duty cycle		_
and	Access protocol		
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD / FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	CEPT/ECC/REC 05-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	iption	Comment
Frequency band	71000 - 76000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications
	Channel spacing	from 250 MHz up to 1250 MHz	_
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital	
	Reference frequency		
T	Output power	as defined by the ETSI standard	
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	_
	Radiated power		
Channel access	Duty cycle		_
and	Access protocol		_
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD / FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	CEPT/ECC/REC 05-07		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Point-to-point fixed links

Parameter	Descr	ription	Comment
Frequency band	81000 - 86000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications
	Channel spacing	from 250 MHz up to 1250 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	digital	
	Reference frequency		
T (Output power	as defined by the ETSI standard	-
Transmit power / Power density	Antenna Gain	as defined by the ETSI standard	-
	Radiated power		
Channel access	Duty cycle		
and	Access protocol		_
occupation rules	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD / FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, in assignment)	ndividual frequency	
Add. essential requirements			
Freq. planning assumption	CEPT/ECC/REC 05-07		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Cordless Telephones

DECT

Parameter	Description		Comment
Frequency band	1880 - 1900 MHz		
	Mobile		
Radio Service	Land Mobile		
	Land mobile		
Application	Cordless telephones		
	DECT	1	
	Channel spacing	1728 MHz	
Channel /	Designation of emission		
modulation	Modulation / Occupied bandwidth	Refer to EN 301 406	
	Reference frequency		
	Output power		
Transmit power / Power density	Antenna Gain		Type of antenna : integral or dedicated
Tower density	Radiated power	250 mW peak e.r.p.	
Channel access	Duty cycle		
and	Access protocol		
occupation rules	Trans. capacity	1152 kbit/s per carrier	
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 406		
Remarks	Council Directive 91/287/EEC		
Notification number	2009/0375/L		Sub-class H10 of Class 2 covers other categories of DECT equipment
Equipment class	Class 1		Refer to Sub-class 18 (2000/299/EC)

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Normative in accordance to the *TCAM RIG II* template

Cordless Telephones

DECT

Parameter	Description		Comment
Frequency band	1880 - 1900 MHz		
Radio Service	Mobile Land Mobile		
Application	Land mobile Cordless telephones DECT		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth	1728 MHz Refer to EN 301 406	
Transmit power / Power density	Reference frequency Output power Antenna Gain Radiated power	250 mW (24 dBm) conducted 26 dBm eirp (see remark)	26 dBm eirp for omni-directional antennas 30 dBm eirp for directionall antennas
Channel access and	Duty cycle Access protocol	30 dBm eirp (see remark) 30 dBm eirp (see remark) Instant Dynamic Channel Selection	Refer to EN 301 406
occupation rules Direction /	Trans. capacity		
Separation Authorisation regime	TDD		Refer to EN 301 406
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 406 ECC/DEC(98)22 as amended		
Remarks	Council Directive 91/287/EEC		
Notification number	2014/450/L		
Equipment class	Class 2		Refer to Sub-class H10 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Digital Cellular

R-GSM

Parameter	Description		Comment
	876 - 880 MHz		
	Mobile Land Mobile		
	Land mobile		
	Digital cellular		
	GSM-R		
	Channel spacing	200 kHz 12 kHz for DMO	
	Designation of emission		
	Modulation / Occupied bandwidth	For non DMO operation: Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and occupation rules	Access protocol	TDMA (not for DMO operation)	
· · · · · · · · · · · · · · · · · · ·	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network	licence.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 086 (DMO); EN 300 609-4 (repeaters); EN 301 419		
Remarks	Coupled with 921-925 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09b (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Digital Cellular

R-GSM

Parameter	Descr	iption	Comment
	921 - 925 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	GSM-R	200.111	
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation	45 MHz		Base station transmit Repeater transmit / receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 876-880 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Descr	iption	Comment
	1710 - 1785 MHz		
	Mobile Land Mobile		
	Land mobile Digital cellular MCA		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime			
Add. essential requirements	Decision 2008/294/EC, Decisi	ion 2013/654/EC	
Freq. planning assumption			
Planned changes			
Reference	EN 301 502 ; EN 301 511 ; El	N 302 480	
Remarks	Coupled with 1805-1880 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	1805 - 1880 MHz		
	Mobile		
	Land Mobile		_
	Land mobile		-
	Digital cellular		-
	MCA	200.111	
	Channel spacing	200 kHz	-
	Designation of emission		-
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		_
	Antenna Gain		
	Radiated power		
	Duty cycle		_
	Access protocol		_
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime	Individual licensing for aircrafts registered in Luxembourg		
Add. essential requirements	Decision 2008/294/EC, Decision	ion 2013/654/EC	
Freq. planning assumption			
Planned changes			
Reference	EN 301 502 ; EN 301 511 ; EI	N 302 480	
Remarks	Coupled with 1710-1785 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Descr	iption	Comment
	1710 - 1785 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	MCA		
	Channel spacing	1.4/3/5/10/15/20 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime			
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-13, EN 301 908-14, EN 301 908-15		
Remarks	Coupled with 1805-1880 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Descr	iption	Comment
	1805 - 1880 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	MCA		
	Channel spacing	1.4/3/5/10/15/20 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime	Individual licensing for aircra	fts registered in Luxembourg	
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-13, EN 301 908-14, EN 301 908-15		
Remarks	Coupled with 1770-1785 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	1920 - 1980 MHz		
	Mobile		
	Land Mobile		
I			
	Land mobile		
	Digital cellular		
I	MCA		
	Channel spacing	5 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
I	Trans. capacity		
Direction / Separation	190 MHz		
Authorisation regime			
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-2, EN 301 908-3, EN 301 908-11		
Remarks	Coupled with 2110-2170 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
	2110 - 2170 МНz		
	Mobile		
	Land Mobile		
-	Land mobile		
-	Digital cellular		
	MCA		
-	Channel spacing	5 MHz	
-	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	190 MHz		
Authorisation regime	Individual licensing for aircrafts registered in Luxembourg		
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-2, EN 301 908-3, EN 301 908-11		
Remarks	Coupled with 1920-1980 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
	10700 - 11700 MHz		
	Mobile-Satellite		
	Aeronautical Mobile-Satellite		
	Land mobile		
	Digital cellular		
	AES		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Refer to sub-class 12	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Free circulation and use.		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 302 186 ECC/DEC(05)11		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Digital Cellular

Aircraft Earth Stations

	Description		Comment
	12500 - 12750 MHz		
	Mobile-Satellite		
-	Aeronautical Mobile-Satellite		
-	Land mobile		
-	Digital cellular		
	AES		
-	Channel spacing		
-	Designation of emission		
	Modulation / Occupied bandwidth		
-	Reference frequency		
	Output power		
-	Antenna Gain		
-	Radiated power	Refer to sub-class 12	
	Duty cycle		
	Access protocol		
-	Trans. capacity		
Direction / Separation			
Authorisation regime	Free circulation and use.		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
	EN 302 186 ECC/DEC(05)11		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Informative in accordance to the TCAM RIG II template

Digital Cellular

Aircraft Earth Stations

Mobile- Aerona Land m Digital AES	- 14250 MHz -Satellite utical Mobile-Satellite		
Aerona Land m Digital AES			
Land m Digital AES	utical Mobile-Satellite		
Digital AES			
Digital AES			
AES			
	cellular		
Chanr			
	nel spacing		
	nation of emission		
Modu	lation / Occupied bandwidth		
Refere	ence frequency		
Outpu	ıt power		
Anten	na Gain		
Radia	ted power	Refer to sub-class 12	
Duty o	cycle		
Access	s protocol		
Trans	. capacity		
Direction / Separation			
Authorisation regime	rculation and use.		
Add. essential requirements			
Freq. planning assumption ITU Reg	gulations		
Planned changes			
Reference EN 302 ECC/D.	2 186 DEC(05)11		
Remarks			
Notification number 2013/21	16/L		
Equipment class Class 1	1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
	14250 - 14500 MHz		
	Mobile-Satellite		
	Aeronautical Mobile-Satellite		
	Land mobile		
	Digital cellular		
	AES		
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power	Max. 50 dBW	
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Free circulation and use.		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 302 186 ECC/DEC(05)11		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the *TCAM RIG II* template

Version of: 01 August 2013

Terrestrial systems capable of providing ECS

E-GSM

Parameter	Descr	ription	Comment
	880 - 890 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	GSM	000 J XX	
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network	licence.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 609-4 (repeaters)		
Remarks	Coupled with 925 - 935 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

E-GSM

Parameter	Descr	iption	Comment
	925 - 935 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	GSM		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation	45 MHz		Base station transmit Repeater transmit / receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 880 - 890 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

P-GSM

Parameter	Description		Comment
	890 - 915 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	GSM		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network	licence.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 609-4 (repeaters)		
Remarks	Coupled with 935-960 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

P-GSM

Parameter	Descr	iption	Comment
	935 - 960 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	GSM	200.111	
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation	45 MHz		Base station transmit Repeater transmit / receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 890-915 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

GSM 1800

Parameter	Descr	iption	Comment
	1710 - 1785 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	GSM		
	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8- PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	TDMA	
occupation rules	Trans. capacity		
Direction / Separation	95 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network	licence.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 609-4 (repeaters)		
Remarks	Coupled with 1805-1880 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template Informative in accordance to the TCAM RIG II template

Terrestrial systems capable of providing ECS

GSM 1800

Parameter	Descr	iption	Comment
	1805 - 1880 MHz		
	Mobile		_
	Land Mobile		-
	Land mobile		
	Digital cellular		-
	GSM		-
	Channel spacing	200 kHz	_
	Designation of emission		_
	Modulation / Occupied bandwidth	Minimum Shift Keying (GMSK) / 8- PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		_
and	Access protocol	TDMA	_
occupation rules	Trans. capacity		
Direction / Separation	95 MHz		Base station transmit Repeater transmit / receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 1710-1785 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	880 - 915 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	IMT	5 MIL-200 HIL shows a	
	Channel spacing	5 MHz/200 kHz channel raster	Carrier separation of 5 MHz or more between two
	Designation of emission		neighbouring UMTS networks
	Modulation / Occupied bandwidth	QPSK	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	CDMA	
occupation rules	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network	licence.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2; EN 301 908-11		
Remarks	Coupled with 925 - 960 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	925 - 960 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	IMT	5 MHz/200 kHz channel	
	Channel spacing	s MH2/200 kH2 channel raster	Carrier separation of 5 MHz or more between two
	Designation of emission		neighbouring UMTS networks
	Modulation / Occupied bandwidth	QPSK / 16 QAM	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	CDMA	
occupation rules	Trans. capacity		
Direction / Separation	45 MHz		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-3; EN 301 908-11		
Remarks	Coupled with 880 - 915 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	1710 - 1785 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	IMT		
	Channel spacing	5 MHz/200 kHz channel raster	Carrier separation of 5 MHz or more between two
	Designation of emission		neighbouring UMTS networks
	Modulation / Occupied bandwidth	QPSK	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	CDMA	
occupation rules	Trans. capacity		
Direction / Separation	95 MHz		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network	licence.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2; EN 301 908-11		
Remarks	Coupled with 1805 - 1880 MH	Iz	
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	1805 - 1880 MHz		
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	IMT		
	Channel spacing	5 MHz/200 kHz channel raster	Carrier separation of 5 MHz or more between two
	Designation of emission		neighbouring UMTS networks
	Modulation / Occupied bandwidth	QPSK / 16 QAM	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	CDMA	
occupation rules	Trans. capacity		
Direction / Separation	95 MHz		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-8; EN 301 908-11; EC Decision 2009/766/EC		
Remarks	Coupled with 1710 - 1785 MH	Iz	
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

UMTS

Parameter	Descr	iption	Comment
	1920 - 1980 MHz		Commission decision of 5 November 2012 on the harmonisation of 1920-1980 MHz and 2110-2170 MHz for ECS in the Union (2012/688/EU)
	Mobile		
	Land Mobile		
	Land mobile		
	Digital cellular		
	IMT	1	
	Channel spacing	5 MHz 200 kHz channel raster	
	Designation of emission		
	Modulation / Occupied bandwidth	<u>Q</u> PSK	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	CDMA	
occupation rules	Trans. capacity		
Direction / Separation	190 MHz		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network	licence.	
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2; EN 301 908-11; Commission decision 2012/688/EU; ECC/DEC(06)01		
Remarks	Coupled with 2110-2170 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template
Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
	2110 - 2170 MHz		Commission decision of 5 November 2012 on the harmonisation of 1920-1980 MHz and 2110-2170 MHz for ECS in the Union (2012/688/EU)
	Mobile		
	Land Mobile		
I			
	Land mobile		
	Digital cellular		
	IMT	I	
	Channel spacing	5 MHz 200 kHz channel raster	
	Designation of emission		
	Modulation / Occupied bandwidth	QPSK / 16 QAM	
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
Channel access	Duty cycle		
and	Access protocol	CDMA	
occupation rules	Trans. capacity		
Direction / Separation	190 MHz		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-3; EN 301 908-11; Commission decision 2012/688/EU; ECC/DEC(06)01		
Remarks	Coupled with 1920-1980 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description	Comment
	2500 - 2570 MHz	Harmonised radio spectrum (2008/477/EC)
	Mobile	
	Land Mobile	
	Land mobile	
	MFCN	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation	Paired carrier 120 MHz above	Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence.	<i>Limits according to the annex of EC Decision 2008/477/EC are applicable.</i>
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 301 908-2; EN 301 908-13; EN 301 908-11; EC Decision 2008/477/EC	
Remarks	Frequency band coupled to 2620-2690 MHz	
Notification number	2010/378/L	
Equipment class	Class 1	Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description	Comment
	2620 - 2690 MHz	Harmonised radio spectrum (2008/477/EC)
	Mobile	
	Land Mobile	
	Land mobile	
	MFCN	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied	
	bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation	Paired carrier 120 MHz above	Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing	<i>Limits according to the annex of EC Decision 2008/477/EC are applicable.</i>
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 301 908-3; EN 301 908-14; EN 301 908-11; EC Decision 2008/477/EC	
Remarks	Frequency band coupled to 2500-2570 MHz	
Notification number	2010/378/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description	Comment
	2500 - 2570 MHz	Harmonised radio spectrum (2008/477/EC)
	Mobile	
	Land Mobile	
	Land mobile	
	MFCN	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied	
	bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing	<i>Limits according to the annex of EC Decision 2008/477/EC are applicable.</i>
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 301 908-6; EN 301 908-7; EN 301 908-13; EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC	
Remarks		
Notification number	2010/378/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description	Comment
	2570 - 2620 MHz	Harmonised radio spectrum (2008/477/EC)
	Mobile	
	Land Mobile	
	Land mobile	
	MFCN	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied	
	bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing	<i>Limits according to the annex of EC Decision 2008/477/EC are applicable.</i>
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 301 908-6; EN 301 908-7; EN 301 908-13; EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC	
Remarks		
Notification number	2010/378/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description	Comment
	2620 - 2690 MHz	Harmonised radio spectrum (2008/477/EC)
	Mobile	
	Land Mobile	
	Land mobile	
	MFCN	
	Channel spacing	
	Designation of emission	
	Modulation / Occupied	
	bandwidth	
	Reference frequency	
	Output power	
	Antenna Gain	
	Radiated power	
	Duty cycle	
	Access protocol	
	Trans. capacity	
Direction / Separation		Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing	<i>Limits according to the annex of EC Decision 2008/477/EC are applicable.</i>
Add. essential requirements		
Freq. planning assumption		
Planned changes		
Reference	EN 301 908-6; EN 301 908-7; EN 301 908-13; EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC	
Remarks		
Notification number	2010/378/L	
Equipment class	Class 2	

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3410 - 3490 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
	Mobile		
	Land Mobile		
	Land mobile		
	MFCN		
	Channel spacing	Ch. Raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 100 MHz above	ę	Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network	licence	<i>Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.</i>
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 20	014/276/EU	
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC,2014/276/EU		
Remarks	Frequency band coupled to 35	510-3590 MHz	
Notification number	2016/7/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3510 - 3590 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
	Mobile		
	Land Mobile		
	Land mobile		
	MFCN		
	Channel spacing	Ch. Raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied		
	bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 100 MHz below	v	Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		<i>Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.</i>
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 2014/276/EU		
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC,2014/276/EU		
Remarks	Frequency band coupled to 3410-3490 MHz		
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3400 - 3600 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
	Mobile		
	Land Mobile		
	Land mobile		
	MFCN		
	Channel anasing	Ch. Raster: 100 kHz	
	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction /	Trans. capacity		Time-Division-Duplex TDD
Separation			Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing		Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 20	014/276/EU	
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC,2014/276/EU		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
	3600 - 3800 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
	Mobile		
	Land Mobile		
	Land mobile		
	MFCN		-
	Channel spacing	Ch. Raster: 100 kHz	
	Designation of emission		-
	Modulation / Occupied		-
	bandwidth		
	Reference frequency		-
	Output power		
	Antenna Gain		-
	Radiated power		-
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing		<i>Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.</i>
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 20	014/276/EU	
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC,2014/276/EU		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	791 - 821 MHz		Harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (2010/267/EU).
	Mobile		
	Mobile except aeronautical mo	obile	
	TRA-ECS		
	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 41 MHz above		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		<i>Limits according to the annex of EC Decision 2010/267/EU are applicable.</i>
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-3, EN 301 908-13, EN 301 908-21 EC Decision 2010/267/EU		
Remarks	Frequency band coupled with	832-862 MHz	
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Descr	ription	Comment
	832 - 862 MHz		Harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (2010/267/EU).
	Mobile		
	Mobile except aeronautical m	obile	
	TRA-ECS		
	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 41 MHz below		Terminal transmit Repeater transmit/receive
Authorisation regime	Included in operator network	licence	<i>Limits according to the annex of EC Decision 2010/267/EU are applicable.</i>
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2, EN 301 908-14, EN 301 908-22 EC Decision 2010/267/EU		
Remarks	Frequency band coupled with	791-821 MHz	
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment	
	880 - 915 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan- European electronic communications services in the Community (2011/251/EU)	
	Mobile Mobile except aeronautical mobile			
	<i>TRA-ECS</i>			
	Channel spacing	Ch. raster: 100 kHz		
	Designation of emission			
	Modulation / Occupied bandwidth			
	Reference frequency			
	Output power			
	Antenna Gain			
	Radiated power			
	Duty cycle			
	Access protocol			
	Trans. capacity			
Direction / Separation	Paired carrier 45 MHz above		Terminal transmit Repeater transmit/receive	
Authorisation regime	Included in operator network licence			
Add. essential requirements				
Freq. planning assumption				
Planned changes				
Reference	EN 301 908-13,EN 301 908-21 EC Decision 2011/251/EU			
Remarks	Frequency band coupled with 925-960 MHz			
Notification number	2012/305/L			
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)	

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	925 - 960 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan- European electronic communications services in the Community (2011/251/EU)
	Mobile		
	Mobile except aeronautical mobile		
	TRA-ECS		
	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 45 MHz below		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-14 ,EN 301 908-22 EC Decision 2011/251/EU		
Remarks	Frequency band coupled with 880-915 MHz		
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment	
	1710 - 1785 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan- European electronic communications services in the Community (2011/251/EU)	
	Mobile Mobile except aeronautical mobile			
	<i>TRA-ECS</i>			
	Channel spacing	Ch. raster: 100 kHz		
	Designation of emission			
	Modulation / Occupied bandwidth			
	Reference frequency			
	Output power			
	Antenna Gain			
	Radiated power			
	Duty cycle			
	Access protocol			
-	Trans. capacity			
Direction / Separation	Paired carrier 95 MHz above		Terminal transmit Repeater transmit/receive	
Authorisation regime	Included in operator network licence			
Add. essential requirements				
Freq. planning assumption				
Planned changes				
Reference	EN 301 908-13 ,EN 301 908-21 EC Decision 2011/251/EU			
Remarks	Frequency band coupled with 1805-1880 MHz			
Notification number	2012/305/L			
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)	

Normative in accordance to the *TCAM RIG II* template

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
	1805 - 1880 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan- European electronic communications services in the Community (2011/251/EU)
	Mobile		
	Mobile except aeronautical mobile		
	<i>TRA-ECS</i>		
	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
	Output power		
	Antenna Gain		
	Radiated power		
	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 95 MHz below		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-14 ,EN 301 908-22 EC Decision 2011/251/EU		
Remarks	Frequency band coupled with 1710-1785 MHz		
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the *TCAM RIG II* template