

PTS Spectrum Orientation Plan

This Spectrum Orientation Plan describes the current and planned use of different frequency bands in Sweden. The Plan also describes anticipated changes and licensing methods. The plan should be seen as an orientation and an overview, rather than an exhaustive list. It is non-binding and can and will change over time without notice. The technical conditions for license exempt spectrum is contained in the current version of the PTS regulations on exemptions from license obligation for certain radio transmitters. Comments on the Spectrum Orientation Plan may be sent to pts@pts.se This translation of the Spectrum Orientation Plan is for information only; please note that in the event of any discrepancy between the English version and the Swedish original, the latter will take priority.

385 MHz 386 MHz 1 UHF 386 MHz 387 MHz 1 370 MHz band 3 387 MHz 389 MHz 2 370 MHz band 3 389 MHz 390 MHz 1 UHF	name duplex Ba	and Usage today	Licensing method	Planned changes
Inductive transmissions 26000 kHz 30 MHz 4 30 MHz 47 MHz 17 47 MHz 68 MHz 21 TV band I 68 MHz 87.5 MHz 19.5 LMR 80 MHz 87.5 MHz 108 MHz 20.5 FM 108 MHz 117,975 9.98	e /	Maritime radio, Aeronautical radio, Land	License exempt: SRD, amateur radio	
30 MHz 47 MHz 17 Image: state st		mobile radio, Fixed radio, Radionavigation, Radiolocation, Radio astronomy, Broadcasting, Amateur radio, Private radio SRD, MIL	(up to 200 W), private radio etc. Individual radio transmitters: Amateur radio with higher power and other use	
47 MHz 68 MHz 21 TV band I 68 MHz 87.5 MHz 19.5 LMR 80 MHz 87.5 MHz 108 MHz 20.5 FM 87.5 MHz 108 MHz 20.5 FM 108 MHz 117,975 9.98		Land mobile radio, paging - simplex, SRD (private radio, RC radio, telemetry, baby monitoring etc.), amateur radio, MIL	Individual radio transmitters. License exempt: SRD and amateur radio (up to 200 W).	
Image: Constraint of the state of		Land mobile radio, SRD (RC radio, telemetry, medical implants, etc.), Wireless microphones, Radio astronomy, MIL	Individual radio transmitters. License exempt: Wireless microphones and SRD.	
Band band 87.5 MHz 108 MHz 20.5 FM 108 MHz 117,975 9.98		Only 50-52 MHz is used for Amateur radio. MIL	License exempt: SRD and Amateur radio.	
108 MHz 117,975 MHz 9.98 Performance 117,975 137 MHz 2.19 VHF 137 MHz 138 MHz 1 1 138 MHz 138 MHz 1 1 138 MHz 144 MHz 6 1 144 MHz 146 MHz 2 1 146 MHz 146 MHz 2 1 146 MHz 162 MHz 16 VHF boats 162 MHz 174 MHz 12 LMR 160 MHz 174 MHz 230 MHz 56 VHF, Band III 230 MHz 240 MHz 10 Broadcast radio T-DAB 240 MHz 328.6 MHz 88.6 UHF 335.4 MHz 370 MHz 14.6 UHF 370 MHz 371 MHz 1 370 MHz band 371 MHz 374 MHz 380 MHz 3 UHF 380 MHz 335 MHz 335 MHz 335 MHz 335 MHz 336 MHz 336 MHz 3370 MHz band 3370 MHz band 3370 MHz band 3370 MHz 3380 MHz 3380 M	1Hz	Land mobile radio - simplex and duplex (PMR, police, rescue service), Aeronautical radio, Radio astronomy	Individual radio transmitters	
MH2 VHF 117,975 137 MH2 2.19 VHF 137 MH2 138 MH2 1 1 138 MH2 144 MH2 6 1 138 MH2 144 MH2 6 1 144 MH2 146 MHz 2 1 144 MHz 146 MHz 2 1 144 MHz 162 MHz 16 VHF boats 162 MHz 162 MHz 16 VHF boats 174 MHz 230 MHz 56 VHF, Band III 230 MHz 240 MHz 10 Broadcast radio T-DAB 240 MHz 335.4 MHz 6.8 UHF 335.4 MHz 36.8 UHF 335.4 MHz 335.4 MHz 5.8 UHF 370 MHz 370 MHz 370 MHz 34.6 UHF 370 MHz 370 MHz 370 MHz 370 MHz 371 MHz 376 MHz 370 MHz 370 MHz 376 MHz 380 MHz 4 UHF 380 MHz 380 MHz </td <td></td> <td>Broadcast audio transmissions in FM band P1-P6, Local audio broadcasting (FM), Commercial audio broadcasting (FM), SRD (low power FM transmitter)</td> <td>Individual radio transmitters: P1-P5 on national basis, local audio broadcasting transmitters on municipal basis, commercial FM audio broadcasting transmitters according to MRTV's concession area. License exempt: SRD</td> <td></td>		Broadcast audio transmissions in FM band P1-P6, Local audio broadcasting (FM), Commercial audio broadcasting (FM), SRD (low power FM transmitter)	Individual radio transmitters: P1-P5 on national basis, local audio broadcasting transmitters on municipal basis, commercial FM audio broadcasting transmitters according to MRTV's concession area. License exempt: SRD	
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389 MHz 390 MHz 1 UHF 390 MHz 395 MHz 5 Rakel 3 395 MHz 399.9 MHz 4.9 UHF 399.9 MHz 399.9 MHz 3.1		Fixed radio (narrow band simplex and	Individual radio transmitters	
390 MHz 395 MHz 5 Rakel 3 395 MHz 399.9 MHz 4.9 UHF 399.9 MHz 403 MHz 3.1		Fixed radio (narrow band simplex and duplex), MIL	Individual radio transmitters	Phasing out fixed radio
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399.9 MHz 403 MHz 3.1	380-385	Mobile Radio (TETRA) Rakel	Individual radio transmitters National block license: Rakel	
	_	Land mobile radio Aeronautical radio MIL		
403 MHz 406.2 MHz 3.2		Satellite (MSS, TT&C, Meterorology), Balloon-borne radiosondes, Meteorology, Medical implants	Usage governed by satellite coordination. License exempt: SRD	
		Meteorology (balloon-borne radiosondes), Medical implants, Land mobile radio (405- 405.9 MHz), Emergency frequency (405.9- 406.2 MHz) ELT, EPIRB, PLB.	Individual radio transmitters License exempt: SRD	
406.2 MHz 430 MHz 23.8 LMR 400 MHz band (low part)		Land mobile radio - simplex and duplex.	Individual radio transmitters. License exempt: Alarm transmitters.	
	440-442	Fixed Radio (Telemetry), SRD	Individual radio transmitters License exempt: SRD	

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Hord Hord Hord Hord Listed carger, ER, Taknung hord 441 Het 450 Het 2 20 Col-SCI For Hord Carger Hord Market M, Hord MARK 442 Het 450 Het 2 104 and SCI Het/ M 2 Hord Market M, Hord MARK Hord Market Red, Terminal Market M, Hord MARK Hord Market Red, Terminal M, Hord MARK <	438 MHz	440 MHz	2	Telemetry		Land mobile radio, telemetry, SRD	Individual radio transmitters.	
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402.5 MIL 647.5 MIL <t< td=""><td>457.5 MHz</td><td>462.5 MHz</td><td>5</td><td></td><td></td><td></td><td>Individual radio transmitters</td><td></td></t<>	457.5 MHz	462.5 MHz	5				Individual radio transmitters	
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BB2 MHz BB3 MHz T SRD Locense sempt B53 MHz 77 MHz 7 SRD-000 SRD Wireses microphones, RFD Locense sempt Inchronics etc. B70 MHz 77 MHz A4 870 MHz 7 SRD-000 SRD Wireses microphones, RFD Locense sempt Inchronics secong b ERC B70 MHz 16 5.1 SRD Wireses microphones, RFD Locense sempt Februarisation B74 MHz 1.6 Ext GSM-7 919.4 to 21 EMPTV Februarisation System FFRACS B76 MHz 1.6 Ext GSM-7 919.4 to 21 EMPTV Februarisations System FFRACS B76 MHz 1.6 Ext GSM-7 919.4 to 21 EMPTV Inchronic Inchronics second patient System FFRACS B76 MHz 915 MHz 3 900 MHz band GSA-80 Electronic communications services (MFCH) National block locenses Mgaaton tom GSM-R to FRMCS B76 MHz 214 MHz 1.4 915 MHz 874.4 to 876 EMPTV Sod MHz Sod MHz Sod MHz Sod MHz Sod MHz								
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874.4 MHz 876 MHz 1.6 EX GSM.R / RNR 919.4 to 921 EMPTY EMPTY Future Rail Mobile Communications System (FRACS) 876 MHz 880 MHz 4 GSM.R 921-925 Mobile communication (GSM-R), Used only along allway tracks Block licenses Migration from GSM-R to FRMCS 880 MHz 915 MHz 35 900 MHz band 925-980 Electronic communications services (MFCN) individual radio transmitters communications according to EXC / FEC 70-03 National block licenses. Migration from GSM-R to FRMCS 915 MHz 91.9 MHz 4.4 915 MHz 16. EX GSM.R / EMPTY Ref. Communications according to EXC / FEC 70-03 Future Rail Mobile communications System (FRACS) 919 MHz 925 MHz 1.6 EX GSM.R / EMPTY 874.4 to 876 EMPTY ELcense KMPCN Migration from GSM-R to FRMCS) 920 MHz 925 MHz 900 MHz band 880-915 Electronic communications services (MFCN) National block licenses Migration from GSM-R to FRMCS) 920 MHz 920 MHz 30 900 MHz band 880-915 Electronic communications services (MFCN) National block licenses Migration from GSM-R to FRMCS)								
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Image: Second	880 MHz	915 MHz	35	900 MHz band	925-960	Electronic communications services (MFCN)		
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Image: License exempt: Amateur radio (up to 200 W). Individual radio transmitters:1300 MHz1350 MHz50L-bandRadiolocation, Radio astronomy, Video- PMSE, MILIndividual radio transmitters:1300 MHz1375 MHz25L-bandRadio astronomy, Video-PMSE, MILIndividual radio transmitters1375 MHz1400 MHz25L-bandRadio astronomy, Video-PMSE, MILIndividual radio transmitters1400 MHz1400 MHz251.4 GHz1427-1452Radio astronomy, MILIndividual radio transmitters1400 MHz1427 MHz27Radio astronomy, Earth exploration via satelliteAll radioemissions are prohibited1427 MHz1452 MHz25Extended 1.5 GHz band1375-1400Fixed radio - simplex and duplexIndividual radio transmittersPlanned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis.1452 MHz1492 MHz401.5 GHz bandEMPTY (occasionally used for balloon data collection)Planned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis.1492 MHz1518 MHz26Extended 1.5 GHz bandMILMILPlanned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis.1518 MHz1525 MHz7L-bandSatellite (MSS downlink) MILUsage governed by satellite			30					
Image: Constraint of the constra								
1300 MHz 1350 MHz 50 L-band Radiolocation, Radio astronomy, Video- PMSE, MIL Individual radio transmitters 1350 MHz 1375 MHz 25 L-band Radio astronomy, Video- PMSE, MIL Individual radio transmitters 1350 MHz 1400 MHz 25 1.4 GHz 1427.1452 Radio astronomy, Video- PMSE, MIL Individual radio transmitters 1400 MHz 1427 MHz 27 Radio astronomy, Earth exploration via satellite All radioemissions are prohibited 1402 MHz 1452 MHz 25 Extended 1.5 GHz band 1375-1400 Fixed radio - simplex and duplex Individual radio transmitters Planned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis. 1452 MHz 1492 MHz 40 1.5 GHz band EMPTY (occasionally used for balloon data collection) Individual radio transmitters Planned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis. 1492 MHz 1518 MHz 26 Extended 1.5 GHz band MIL Planned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis. 1518 MHz 1525 MHz 7 L-band Satellite (MSS downlink) MIL Usage governed by satellite								
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1452 MHz 1492 MHz 40 1.5 GHz band EMPTY (occasionally used for balloon data collection) Planned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis. 1492 MHz 1518 MHz 26 Extended 1.5 GHz band MIL Planned date for new assignment (block license) 2026 or later and depend on a future PTS demand analysis. 1518 MHz 1525 MHz 7 L-band Satellite (MSS downlink) MIL Usage governed by satellite				GHZ band				
1492 MHz 1518 MHz 26 Extended 1.5 GHz band MIL Image: Collection in the constraint of								indiare i i o demandi analysis.
1492 MHz 1518 MHz 26 Extended 1.5 GHz band MIL Image: Collection in the constraint of	1452 MHz	1492 MH7	40	15 GHz band		EMPTY (occasionally used for balloon date	1	Planned date for new assignment (block
1492 MHz 1518 MHz 26 Extended 1.5 GHz band MIL Image: Comparison of the comparison of			-10	1.5 Onz band				
Image: Horizontal state Image: Horizontal state <td> </td> <td> </td> <td> </td> <td></td> <td></td> <td></td> <td> </td> <td></td>								
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1518 MHz 1525 MHz 7 L-band Satellite (MSS downlink) MIL Usage governed by satellite	1492 MHz	1518 MHz	26	Extended 1.5		MIL		Planned date for new assignment (block
Image: https://www.amage: https://wwww.amage: https://www.amage: https://wwww.amage: https://www.amage: https://www.amag https://www.amage: https://www.amage: https://www.amage: https://www.amage: https://www.amage: https://www.amag https://www.amage: https://www.amage: https://www.amage: https://wwww.amage: https://www.amage: https://www.amag https://www								
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	1518 MHz	1525 MHz	7	L-band		Satellite (MSS downlink) MIL	Usage governed by satellite	

1525 MHz	1559 MHz	34	L-band		Satellite (MSS downlink), Maritime radio	Usage governed by satellite	
1559 MHz	1610 MHz	51	L-band		(Emergency and security traffic), MIL Satellite navigation (GPS, Galileo), GNSS	coordination Usage governed by satellite	
1000 11112	1010 11112	0.	GALILEO /		repeaters	coordination. Individual radio	
			GPS / GLONASS			transmitters.	
1610 MHz	1626.5 MHz	16.5	L-band	2483.5 to	Earth stations, Maritime radio (Emergency	License exempt (1610-1621.35 MHz)	
				2500	and security traffic) 1621.35-1626.5 MHz, Radio astronomy		
1626.5 MHz	1660.5 MHz	34	L-band		Earth stations, Maritime radio (Emergency and security traffic), Radio astronomy	License exempt	
1660.5 MHz	1668 MHz	7.5	L-band		Radio astronomy		
1668 MHz	1675 MHz	7	L-band		Earth Stations (MSS uplink), Radio		
1675 MHz	1710 MHz	35	L-band		astronomy Satellite meteorology	Usage governed by satellite	
				4005 4075		coordination	
1710 MHz	1780 MHz	70	1800 MHz band	1805-1875	Electronic communications services (MFCN)	National block licenses License exempt: Mobile communication (GSM) on Swedish- registered vessels and aircraft	Reassignment for part of the frequency band 2025
1780 MHz	1785 MHz	5	1800 MHz band,	1875-1880	Electronic communications services (MFCN)	License exempt	
4705 MUL	1805 MHz	00	exemption			la di dalar ha dia kaoministra a	
1785 MHz	1805 MHZ	20	1800 center hatch		Wireless microphones	Individual radio transmitters	
1805 MHz	1875 MHz	70	1800 MHz band	1710-1780	Electronic communications services (MFCN)	National block licenses License exempt: Mobile communication (GSM) on Swedish- registered vessels and aircraft	Reassignment for part of the frequency band 2025
1875 MHz	1880 MHz	5	1800 MHz band	1780-1785	Electronic communications services (MFCN)	License exempt	
1880 MHz	1900 MHz	20	DECT		Cordless Phones (DECT)	License exempt	
1900 MHz	1920 MHz	20	2.1 GHz band (TDD)		Electronic communications services (MFCN)	National block licenses	Future Rail Mobile Communications System (FRMCS) in 1900-1910 MHz
1920 MHz	1980 MHz	60	2.1 GHz band	2110-2170	Electronic communications services (MFCN)	National block licenses	
1980 MHz	2010 MHz	30	2 GHz MSS	2170-2200	Mobile satellite communication (MSS),	National block licenses for ground	
2010 MHz	2025 MHz	15	2010 MHz		Video-PMSE Video-PMSE, MIL	components. Individual radio transmitters	
		-	band				
2025 MHz	2110 MHz	85	TT & C	2200-2290	Earth stations (TT&C uplink) Video-PMSE, MIL	Individual radio transmitters	
2110 MHz	2170 MHz	60	2.1 GHz band	1920-1980	Electronic communications services (MFCN)	National block licenses	
2170 MHz	2200 MHz	30	2 GHz MSS	1980-2010	Mobile Satellite Communications (MSS)	National block licenses for ground	
2200 MHz	2290 MHz	90	TT & C	2025-2110	Satellite (TT&C downlink), Space Research, VLBI, Video-PMSE, MIL	components. Usage governed by satellite coordination	
2290 MHz	2300 MHz	10			Space Research MIL		
2300 MHz	2380 MHz	80	2.3 GHz band		Electronic communications services (MFCN), Sounding rockets, Balloons, Radio astronomy, Telemetry, Space Research, MIL	National block licenses. Individual radio transmitters.	The harmonization of the band has been updated within CEPT, to also include 5G and active antenna systems. This does not affect the current use of the band in Sweden.
2380 MHz	2400 MHz	20	2.3 GHz band		Sounding rockets, Balloons, Radio astronomy, Telemetry, Space Research, Video-PMSE, MIL	Individual radio transmitters.	The harmonization of the band has been updated within CEPT, to also include 5G and active antenna systems. This does not affect the current use of the band in Sweden.
2400 MHz	2483.5 MHz	83.5	2.4 GHz band		SRD, Wireless networks (WLAN, Bluetooth etc.), Amateur radio, MIL	License exempt	
2483.5 MHz	2500 MHz	16.5		1610 to	Satellite (MSS downlink) Satellite (Galileo	Usage governed by satellite	
2500 MHz	2690 MHz	190	2.6 GHz band	1626.5	navigation system) Electronic communications services (MFCN)	coordination National block licenses	
	2700 MHz				. , ,		
2690 MHz 2700 MHz	2700 MHz 2900 MHz	10 200	2.8 GHz band		Radio astronomy Aeronautical radionavigation, Radar	All radioemissions prohibited	
2900 MHz	3100 MHz	200			Maritime radionavigation, MIL	Individual radio transmitters. License exempt:Maritime (vessels).	
3100 MHz	3300 MHz	200			Radiolocation Radio astronomy MIL	Individual radio transmitters	
3300 MHz 3.4 GHz	3.4 GHz 3.72 GHz	100 320	3.5 GHz band		Radiolocation Radio astronomy MIL Electronic communications services (MFCN)	Individual radio transmitters National block licenses	
3.72 GHz	3.8 GHz	80	3.8 GHz band		Electronic communications services (MFCN)	Individual local radio transmitters	
3.8 GHz	4.2 GHz	400	C band		Satellite (FSS downlink), Earth exploration, Video-PMSE, MIL, Temporary licenses for testing	Satellite use is governed by coordination, temporary licenses for testing	
4.2 GHz	4.4 GHz	200			testing Aeronautical radionavigation , WAIC, Altimeter, Earth exploration, MIL	testing Individual radio transmitters	
4.4 GHz	4.5 GHz	100			MIL		
4.5 GHz	4.8 GHz	300	AP30B C-band	6725-7025	MIL		
4.8 GHz	4.99 GHz	190	S Sana		Radio astronomy MIL		
4.99 GHz 5 GHz	5 GHz 5.15 GHz	10 150	MLS band		Radio astronomy Aeronautical radio MIL	Individual radio transmitters	
5.15 GHz	5.25 GHz	100	5 GHz band		Aeronautical radio, Wireless networks, MIL	SRD license exempt	
5.25 GHz	5.35 GHz	100	5 GHz band		Wireless networks, MIL	SRD license exempt	
5.25 GHz 5.35 GHz	5.46 GHz	110	J J IZ Dallu		Aeronautical radionavigation, Aeronautical	ond notice exempt	
					radio, Earth exploration via satellite (active), MIL		
5.46 GHz	5.47 GHz	10			Aeronautical radionavigation, Earth		
5.47 GHz	5.57 GHz	100	5 GHz band		exploration via satellite (active), MIL Radionavigation, Wireless networks, MIL	SRD license exempt	
5.57 GHz	5.65 GHz	80	5 GHz band		Maritime radionavigation, Wireless	SRD license exempt	
					networks, Meteorological radar, MIL		

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5.65 GHz	5.725 GHz	75	5 GHz band		Wireless networks, Amateur radio, MIL	License exempt: SRD and amateur radio (up to 200 W) Individual radio transmitters: Amateur radio (>200W)	
5.725 GHz	5.83 GHz	105	ISM		SRD Amateur Radio MIL	License exempt: SRD and amateur radio (up to 200 W) Individual radio transmitters: Amateur radio (>200W)	
5.83 GHz	5.85 GHz	20	ISM		SRD Amateur Radio MIL	License exempt: SRD and amateur radio (up to 200 W) Individual radio transmitters: Amateur radio (>200W)	
5.85 GHz	5.875 GHz	25	ISM		SRD, Earth stations (FSS uplink), ITS (non- security related)	License exempt: SRD	
5.875 GHz	5.93 GHz	55	C band		Earth stations (FSS uplink), ISM, ITS (security related)	Individual radio transmitters. License exempt: ITS	
5.93 GHz	6.168 GHz	238	Low 6 GHz C band	6182-6420	Wireless networks, Fixed radio, Earth stations (FSS uplink), ITS (security related)	License exempt: SRD Individual radio transmitters	
6.168 GHz	6,182 GHz	14	Low 6 GHz C band		Wireless networks, Guard band (Fixed radio)	License exempt: SRD Individual radio transmitters	
6,182 GHz	6.425 GHz	243	Low 6 GHz C band	5930-6168	Wireless networks, Fixed radio, Earth stations (FSS uplink)	License exempt: SRD Individual radio transmitters	
6.425 GHz	6.44 GHz	15	C band		Guard band (Fixed radio), Earth exploration		
6.44 GHz	6.76 GHz	320	High 6 GHz AP30B	6780-7100 4500-4800	via satellite (use over sea) Fixed radio, Earth stations (FSS uplink), Earth exploration via satellite (use over sea)	Individual radio transmitters	
6.76 GHz	6.78 GHz	20	C band High 6 GHz	4500-4800	Guard band (Fixed radio), Earth stations	Individual radio transmitters	
			AP30B C band		(FSS uplink), Earth exploration via satellite (use over sea)		
6.78 GHz	7.1 GHz	320	High 6 GHz AP30B C band	6440-6760 4500-4800	Fixed radio, Earth stations (FSS uplink), Earth exploration via satellite (use over sea)	Individual radio transmitters	
7.1 GHz	7.25 GHz	150			Earth exploration via satellite (use over sea) MIL		
7.25 GHz	7.427 GHz	177	X band		Satellite (FSS downlink) MIL		
7.427 GHz	7.568 GHz	141	7 GHz X band	7581-7722	Fixed radio, Satellite meteorology, Satellite (FSS downlink)	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
7.568 GHz	7.581 GHz	13	7 GHz X band		Guard band (Fixed radio), Satellite (FSS downlink)		
7.581 GHz	7.722 GHz	141	7 GHz X band	7427-7568	Fixed radio, Satellite (FSS downlink)	Individual radio transmitters	No change. PTS's current-direction is that the band will continue to be used for fixed radio for at least ten years.
7.722 GHz	7.75 GHz	28	X band		Guard band (Fixed radio), Satellite (FSS downlink)		
7.75 GHz 7.9 GHz	7.9 GHz 8,185 GHz	150 285	8 GHz X band	8210-8495	Satellite meteorology (s-e) Fixed radio, Earth stations (FSS uplink), Earth exploration via satellite	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for
8,185 GHz	8.21 GHz	25	8 GHz		Guard band (Fixed radio), Earth exploration	Individual radio transmitters	fixed radio for at least ten years.
8.21 GHz	8,495 GHz	285	X band 8 GHz X band	7900-8185	via satellite Fixed radio, Earth stations (FSS uplink), Earth exploration via satellite	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for
8,495 GHz	9.8 GHz	1305			Radiolocation, Radionavigation for aeronautical and maritime, Earth exploration (active), SRD, MIL	Individual radio transmitters	fixed radio for at least ten years.
9.8 GHz	9.9 GHz	100		9900-10000	Earth exploration (active), SRD, MIL	Individual radio transmitters	
9.9 GHz 10 GHz	10 GHz 10.21 GHz	100 210		9800-9900	Earth exploration (active), SRD, MIL Radiolocation Earth exploration (active),	Individual radio transmitters Individual radio transmitters	
					SRD, Amateur Radio, MIL	License exempt: Amateur radio (up to 200 W) and SRD.	
10.21 GHz	10.322 GHz	112	10.5 GHz band	10560-10672	Electronic communications services (MFCN), Fixed radio, SRD, Radio determination, Earth exploration (active), Amateur radio	Block licenses: All counties. License exempt: Amateur radio (up to 200W), SRD and radio determination. Individual radio transmitters: Amateur radio (>200W) and fixed radio.	Used nationwide for fixed radio, partly within existing block licenses, partly for new individual licensed radio transmitter with a validity period of ten years and extensions of five years at a time.
10.322 GHz	10.56 GHz	238			Guard band, SRD, Radio determination, Earth exploration (active), Amateur radio, MIL	License exempt: Amateur radio (up to 200W), SRD and radio determination. Individual radio transmitters: Amateur radio (>200W)	
10.56 GHz	10.672 GHz	112	10.5 GHz band	10210-10322	Electronic communications services (MFCN), Fixed radio, SRD, Radio determination, Radio astronomy, Earth exploration via satellite	Block licenses: All counties. Individual radio transmitters: Fixed radio. License exempt: SRD.	Used nationwide for fixed radio, partly within existing block licenses, partly for new individual licensed radio transmitter with a validity period of ten years and extensions of five years at a time.
10.672 GHz	10.68 GHz	36			Radio astronomy, Earth exploration via satellite	Individual radio transmitters (Radiolocation)	
10.68 GHz	10.7 GHz	20			Radio astronomy, Earth exploration via satellite, Space Research	All radioemissions prohibited	
10.7 GHz	10.95 GHz	250	AP30B Ku-band	12750-13250	Satellite (FSS downlink, AP30B)	Usage governed by satellite coordination	
10.95 GHz	11.2 GHz	250	Ku-band		Satellite (FSS downlink)	Usage governed by satellite coordination	
	11.45 GHz	250	AP30B	12750-13250	Satellite (FSS downlink, AP30B)	Usage governed by satellite coordination	
11.2 GHz	11.45 GHz		Ku-band			coordination	
11.2 GHz 11.45 GHz	11.7 GHz	250	Ku-band Ku-band		Satellite (FSS downlink)	Usage governed by satellite	
		250 800		17300-18100	Satellite (FSS downlink) Satellite (BSS downlink, AP30, Satellite TV)		

12.75 GHz	12,863 GHz	113	13 GHz AP30B	FS: 13017- 13130	Fixed radio, Earth stations (FSS uplink)	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for
			Ku band	FSS: 10700- 10950 FSS: 11200- 11450			fixed radio for at least ten years.
	13,017 GHz		13 GHz AP30B Ku band	FSS: 10700- 10950 FSS: 11200- 11450	Guard band (Fixed radio), Earth stations (FSS uplink) MIL	Individual radio transmitters	
13,017 GHz	13.129 GHz	112	13 GHz AP30B Ku band	FS: 12751- 12863 FSS: 10700- 10950 FSS: 11200- 11450	Fixed radio, Earth stations (FSS uplink), MIL	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
13.129 GHz	13.25 GHz	121	13 GHz AP30B Ku band	FSS: 10700- 10950 FSS: 11200- 11450	Earth stations (FSS uplink), MIL	Individual radio transmitters	
13.25 GHz	13.75 GHz	500			Aeronautical radionavigation, Radiolocation, SRD, Radio determination, Satellite (FSS	License exempt: SRD	
13.75 GHz	14 GHz	250	Ku-band		Earth stations (FSS uplink), Radiolocation, Radio determination, MIL	Individual radio transmitters. License exempt: SRD	
14 GHz	14.5 GHz	500	Ku-band		Earth stations (FSS / MSS uplink)	License exempt	
14.5 GHz	14.781 GHz	281	15 GHz	14921-15201	Fixed radio, Space Research	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
14.781 GHz 14.921 GHz		140 280	15 GHz 15 GHz	14500-14781	Guard band (Fixed radio), MIL Fixed radio	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
15,201 GHz	15.35 GHz	149	15 GHz		Guard band (Fixed radio), MIL		
15.35 GHz	15.4 GHz	50			Radio astronomy, Earth exploration via satellite (passive sensors for weather	All radioemissions prohibited	
15.4 GHz	17.1 GHz	1700			Aeronautical radionavigation, MIL	Individual transmitters	
17.1 GHz	17.3 GHz	200			GBSAR, Radio determination, SRD, MIL	Individual transmitters. License exempt: SRD and	
17.3 GHz	17.7 GHz	400	AP30A Ka band	11700-12500	Earth stations (FSS uplink)	Individual radio transmitters	
17.7 GHz	18.69 GHz	990	18 GHz AP30A Ka band	11700-12500 18710-19700	Fixed radio, Earth stations (FSS uplink), Satellite (FSS downlink), Earth exploration (18.6-18.8), MIL	Individual radio transmitters. Usage governed by satellite coordination.	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
18.69 GHz	18.71 GHz	20	18 GHz Ka band		Guard band (Fixed radio), Earth exploration (18.6-18.8) MIL		
18.71 GHz	19.7 GHz	990	18 GHz Ka band	17700-18690	Fixed radio, Earth exploration (18.6-18.8), Satellite (FSS downlink) MIL	Individual radio transmitters. Satellite usage governed by satellite coordination.	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
19.7 GHz	21.2 GHz	1500	Ka band		Satellite (FSS downlink)	Usage governed by satellite coordination	
21.2 GHz	21.4 GHz	200			Earth exploration via satellite		
21.4 GHz	22 GHz	600	Ka band		Satellite (BSS downlink)	Usage governed by satellite coordination.	
22 GHz	22.6 GHz	600	23 GHz	23000-23600	Fixed radio, Radio astronomy, MIL	Individual radio transmitters.	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
22.6 GHz	23 GHz	400	23 GHz		Radio astronomy, MIL		
23 GHz	23.6 GHz	600	23 GHz	22000-22600	Fixed radio, Radio astronomy, MIL	Individual radio transmitters.	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
23.6 GHz	24 GHz	400			Earth exploration via satellite, Radio astronomy, Space Research (Passive)	All radioemissions prohibited	
24 GHz	24.25 GHz	250			SRD, Amateur Radio, Vehicular radar (SRR)	License exempt: Amateur radio (up to 200 W), SRD and SRR. Individual radio transmitters: Amateur radio (>200W)	The use of vehicular radar will be phased out.
24.25 GHz	25.1 GHz	850	26 GHz band		Electronic communications services (MFCN), Fixed radio 24,549-25,445 GHz / 25,557-2643 GHz, SRD (level measurement), Vehicular radar (SRR)	Individual local radio transmitters (indoor). Individual radio transmitters: Fixed radio. License exempt: SRD and SRR.	Local licenses for Electronic communications services (MFCN) will be limited to indoor use until the end of 2025. Updated analysis for possible expansion of local licenses outdoor is planned for 2024. Licenses for fixed radio with a validity period of ten years and extensions of five years at a time, with the condition that the fixed radio use must accept harmful interference from, and not cause harmful interference to, the use of MFCN in the band. PTS recommends that those interested /applicants make an assessment of the risk of interference from MFCN in the band before submitting an application for permission to establish a fixed radio in the 26 GHz band to PTS. The use of vehicular radar will be phased

25,1 GHz	26,5 GHz	1400	26 GHz band		Fixed radio 24,549-25,445 GHz / 25,557-	Individual radio transmitters: Fixed	25.1-27.5 GHz is planned for block
					26,453 GHz, Vehicular radar (SRR)	radio. License exempt: SRR	licensing, for Electronic communications services (MFCN), geographically limited to the country's larger agglomerations and local licenses outside these agglomerations. Time for new assignments will be 2026 or later.
							Licenses for fixed radio with a validity period of ten years and extensions of five years at a time, with the condition that the fixed radio use must accept harmful interference from, and not cause harmful interference to, the use of MFCN in the band. PTS recommends that those interested /applicants make an assessment of the risk of interference from MFCN in the band before submitting an application for permission to establish a fixed radio in the 26 GHz band to PTS. The use of vehicular radar will be phased
							out.
26.5 GHz	27.5 GHz	1000	26 GHz band		Vehicular radar (SRR), Temporary licenses for Testing	License exempt: SRR Temporary licenses for testing	5.1-27.5 GHz is planned for block licensing, for Electronic communications services (MFCN), geographically limited to the country's larger agglomerations and local licenses outside these agglomerations. Time for new assignments will be 2026 or later.
							The use of vehicular radar will be phased out.
27.5 GHz	27.9405 GHz	440,5	Ka band		Earth station (FSS uplink)	Individual radio transmitters	Licenses for earth stations with a validity period of ten years and extensions of five years at a time.
27.9405 GHz	28.4445 GHz	504	28 GHz band	28948.50- 29452.50	Electronic communications services (MFCN), Fixed radio, Coordinated earth station (FSS uplink)	National block licenses, Individual radio transmitters	Licenses for fixed service at 28 GHz will be issued after 2024 in the form of individual licenses with a validity period of ten years and extensions of five years at a time. For fixed service at 28 GHz, a limited protection in relation to MFCN in 26 GHz applies after 2025.
							After co-planning with fixed radio, licenses for coordinated earth stations can be issued in the form of individual licenses.
28.4445 GHz	28.9485 GHz	504	Ka band		Earth station (FSS uplink)	Individual radio transmitters	Licenses for earth stations with a validity period of ten years and extensions of five years at a time.
28.9485 GHz	29.4525 GHz	504	28 GHz band	27940.50- 28444.50	Electronic communications services (MFCN), Fixed radio, Coordinated earth station (FSS uplink)	National block licenses, Individual radio transmitters	Licenses for fixed service at 28 GHz will be issued after 2024 in the form of individual licenses with a validity period of ten years and extensions of five years at a time. For fixed service at 28 GHz, a limited protection in relation to MFCN in 26 GHz applies after 2025.
							After co-planning with fixed radio, licenses for coordinated earth stations can be issued in the form of individual licenses.
29.4525 GHz	29.5 GHz	47.5	Ka band		Earth station (FSS uplink)	Individual radio transmitters	Licenses for earth stations with a validity period of ten years and extensions of five years at a time.
29.5 GHz 30 GHz	30 GHz 31 GHz	500 1000	Ka band Ka band		Earth station (FSS / MSS uplink)	License exempt	
30 GHz 31 GHz	31 GHz 31.3 GHz	300	31 GHz		Receiving satellites MIL Radio astronomy		+
31.3 GHz	31.8 GHz	500			Radio astronomy Earth exploration via satellite	All radioemissions prohibited in the band 31300-31500 MHz	
31.8 GHz	31,815 GHz	15			Guard band (Fixed radio)		
31,815 GHz	32.571 GHz	756	32 GHz	32627-33383	Fixed radio	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
32.571 GHz	32.627 GHz	56	1		Guard band (Fixed radio)		and a radio for all roads for yourd.
32.627 GHz	33.383 GHz	756	32 GHz	31815-32571	Fixed radio	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
33.383 GHz		17			Guard band (Fixed radio)		· · · · · · · · · · · · · · · · · · ·
33.4 GHz 34 GHz	34 GHz 35.2 GHz	600 1200			EMPTY MIL		+
34 GHZ 35.2 GHz	35.2 GHZ 37 GHz	1800	+		Earth exploration via satellite, Radio		
37 GHz	37.058 GHz	58			astronomy MIL Guard band (Fixed radio)		+
			38 GHz V band	38318-39438	Fixed Radio, Earth Exploration (Copernicus 37-40.5 GHz)	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
38.178 GHz	38,318 GHz	140	38 GHz V band		Guard band (Fixed Radio), Earth Exploration (Copernicus 37-40.5 GHz)		
38,318 GHz	39.438 GHz	1120	38 GHz V band	37058-38178	Fixed Radio, Earth Exploration (Copernicus 37-40.5 GHz)	Individual radio transmitters	No change. PTS's current direction is that the band will continue to be used for fixed radio for at least ten years.
39.438 GHz	39.5 GHz	62			Guard band (Fixed Radio), Earth Exploration (Copernicus 37-40.5 GHz)		
39.5 GHz	40.5 GHz	1000	V band		Earth exploration (Copernicus 37-40.5 GHz)		+

40.5 GHz	42.5 GHz	2000	V band		Temporary licenses for testing	Temporary licenses for testing	Electronic communications services (MFCN)
42.5 GHz	43.5 GHz	1000			Radio astronomy, Temporary licenses for Testing	Temporary licenses for testing	Electronic communications services (MFCN)
43.5 GHz	45.5 GHz	2000		1	EMPTY		
45.5 GHz	47 GHz	1500			Temporary licenses for testing	Temporary licenses for testing	
47 GHz	47.2 GHz	200			Amateur radio	License exempt: Amateur radio (up to	
						200 W). Individual radio transmitters: Amateur radio (>200W)	
47.2 GHz	48.2 GHz	1000	V band		Temporary licenses for testing	Temporary licenses for testing	
48.2 GHz	50.2 GHz	2000	V band		EMPTY	All radioemissions prohibited from airborne stations in the band 48940- 49040 MHz	
50.2 GHz	50.4 GHz	200			Radio astronomy, Space research, Earth exploration via satellite	All radioemissions prohibited	
50.4 GHz	51.4 GHz	1000	V band		EMPTY		
51.4 GHz	52.4 GHz	1000			EMPTY		
52.4 GHz	52.6 GHz	200			EMPTY		
52.6 GHz	55.78 GHz	3180			Space research, Earth exploration via satellite	All radioemissions prohibited in the band 52600-54250 MHz	
55.78 GHz	57 GHz	1220			Earth exploration via satellite		
57 GHz	59 GHz	2000	58 GHz band		Fixed radio (channel plan), SRD (unspecified, data transmission and level measurement in closed containers)	License exempt: Fixed radio and SRD	
59 GHz	64 GHz	5000	60 GHz band		Fixed radio (channel plan), SRD (unspecified, data transmission, vehicles and level measurement in closed	License exempt: Fixed radio and SRD	
64 GHz	66 GHz	2000			SRD (data transmission, vehicle)	License exempt: SRD	
66 GHz	71 GHz	5000			Radionavigation, Temporary licenses for testing, SRD (data transmission)	Temporary licenses for testing Licence exempt: SRD	
71 GHz	76 GHz	5000	70/80 GHz bands	81000-86000	Fixed radio, Amateur radio, SRD (level measurement)	Individual radio transmitters. License exempt.	
76 GHz	81 GHz	5000			Radio astronomy, Vehicular radar (SRR), SRD (Level Measurement), Radiolocation, Amateur Radio	License exempt: Vehicular radar, SRD and amateur radio up to 200 W) Individual radio transmitters: Amateru radio (>200W) and other uses.	
81 GHz	86 GHz	5000	70/80 GHz bands	71000-76000	Fixed radio, Radio astronomy, SRD (level measurement)	Individual radio transmitters. License exempt.	
86 GHz	92 GHz	6000			Earth exploration via satellite, Radio	All radioemissions prohibited	
92 GHz	100 GHz	8000	90 GHz band		Cloud radar, Earth exploration, Radio astronomy		
100 GHz	116 GHz	16000			Radio astronomy, Earth exploration via satellite	All radioemissions prohibited in various sub-bands	
116 GHz	122 GHz	6000			Earth exploration via satellite		
122 GHz	123 GHz	1000			SRD (unspecified) Amateur Radio	License exempt: SRD and amateur radio (up to 200 W) Individual radio transmitters: Amateur radio (>200W)	
123 GHz	134 GHz	11000		1	EMPTY		
134 GHz	141 GHz	7000			Amateur radio	License exempt: SRD and amateur radio (up to 200 W) Individual radio transmitters: Amateur radio (>200W)	
141 GHz	241 GHz	100000			Earth exploration in some sub-bands	All radioemissions prohibited in various sub-bands	
241 GHz	246 GHz	5000			SRD (unspecified), Amateur Radio	License exempt: SRD and amateur radio (up to 200 W) Individual radio transmitters: Amateru radion (>200W)	
246 GHz	250 GHz	4000			Amateur radio	License exempt: Amateur radio (up to 200 W) Individual radio transmitters: Amateur radio (>200W)	
250 GHz	3000 GHz	2750000			Earth exploration in some sub-bands	All radioemissions prohibited in various sub-bands	