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.

From frequency	To frequency	Amount	Popular name	duplex Band	Usage today	Licensing method	Planned changes
0 kHz	26000 kHz	26	Shortwave / Inductive transmissions		Maritime radio, Aeronautical radio, Land mobile radio, Fixed radio, Radionavigation, Radiolocation, Radio astronomy, Broadcasting, Amateur radio, Private radio SRD, MIL	License exempt: SRD, amateur radio (up to 200 W), private radio etc. Individual radio transmitters: Amateur radio with higher power and other use	
26000 kHz	30 MHz	4			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).	
30 MHz	47 MHz	17			Land mobile radio, SRD (RC radio, telemetry, medical implants, etc.), Wireless microphones, Radio astronomy, MIL	Individual radio transmitters. License exempt: Wireless microphones and SRD.	
47 MHz	68 MHz	21	TV band I		Only 50-52 MHz is used for Amateur radio. MIL	License exempt: SRD and Amateur radio.	
68 MHz	87.5 MHz	19.5	LMR 80 MHz band		Land mobile radio - simplex and duplex (PMR, police, rescue service), Aeronautical radio, Radio astronomy	Individual radio transmitters	
87.5 MHz	108 MHz	20.5	FM		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	
108 MHz	117,975 MHz	9.98			Aeronautical radionavigation	Individual radio transmitters	
117,975 MHz	137 MHz	2.19	VHF		Aeronautical radio, EPIRB, PLB, ELT	Individual radio transmitters	
137 MHz	138 MHz	1			Satellite (TT&C, MSS downlink), Paragliding - 137.1 MHz	Usage governed by satellite coordination	
138 MHz	144 MHz	6			Land mobile radio, MIL	Individual radio transmitters for telemetry (electricity, water and sewer administration)	
144 MHz	146 MHz	2			Amateur radio	License exempt: Amateur radio (up to 200 W) Individual radio transmitters: Amateur radio (> 200W).	
146 MHz	162 MHz	16	VHF boats		Maritime radio (also via satellite) RR AP 18, land mobile radio (PMR, bearing, africulture and forestry and hunting), Radio astronomy, TT&C (short duration missions 148-148.9 MHz), MIL	Individual radio transmitters. License exempt: Bearing, agriculture and forestry and hunting.	
162 MHz	174 MHz	12	LMR 160 MHz band		Land mobile radio - simplex and duplex, Maritime radio RR AP 18, SRD part of the band (unspec. use, hearing aids, safety alarm etc.), MIL	Individual radio transmitters. License exempt: SRD in part of the band.	
174 MHz	230 MHz	56	VHF, Band III		Digital TV (DVB-T, DVB-T2), Digital radio (T-DAB, T-DAB +) channel 12B in metropolitan areas, Low power wireless microphones, Sound transmission.	Individual radio transmitters. License exempt: Hearing aids in 173,965-216 MHz.	
230 MHz	240 MHz	10	Broadcast radio T-DAB		The frequency band is part of Wi95revCO07 digital radio plan (T-DAB, T-DAB +). EISCAT jonosfärforskning, Wireless microphones, MIL	Individual radio transmitters	
240 MHz	328.6 MHz	88.6	UHF		Land mobile radio, SAR, MIL	Individual radio transmitters	
328.6 MHz	335.4 MHz	6.8	UHF		Aeronautical radionavigation	Individual radio transmitters	
335.4 MHz	370 MHz	34.6	UHF		Land mobile radio (News gathering), MIL	Individual radio transmitters	
370 MHz	371 MHz	1	370 MHz band	386-387	Fixed radio (narrow band simplex and	Individual radio transmitters	
371 MHz	374 MHz	3	UHF		MIL		
374 MHz	376 MHz	2	370 MHz band	387-389	Fixed radio (narrow band simplex and duplex) MIL	Individual radio transmitters	Phasing out fixed radio
376 MHz	380 MHz	4	UHF		MIL		
380 MHz	385 MHz	5	Rakel	390-395	Mobile Radio (TETRA) Rakel	Individual radio transmitters National block license: Rakel	
385 MHz	386 MHz	1	UHF		MIL		
386 MHz	387 MHz	1	370 MHz band	370-371	Fixed radio (narrow band simplex and	Individual radio transmitters	
387 MHz	389 MHz	2	370 MHz band	374-376	Fixed radio (narrow band simplex and duplex), MIL	Individual radio transmitters	Phasing out fixed radio
389 MHz	390 MHz	1	UHF		MIL		
390 MHz	395 MHz	5	Rakel	380-385	Mobile Radio (TETRA) Rakel	Individual radio transmitters National block license: Rakel	
395 MHz	399.9 MHz	4.9	UHF		Land mobile radio Aeronautical radio MIL		
399.9 MHz	403 MHz	3.1			Satellite (MSS, TT&C, Meterorology), Balloon-borne radiosondes, Meteorology, Medical implants	Usage governed by satellite coordination. License exempt: SRD	
403 MHz	406.2 MHz	3.2			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.	
430 MHz	432 MHz	2	430	440-442	Fixed Radio (Telemetry), SRD	Individual radio transmitters License exempt: SRD	

432 MHz	438 MHz	6			Amateur Radio, SRD	Individual radio transmitters: Amateur radio (>200W) License exempt: SRD and amateur radio (up to 200 W)	
438 MHz	440 MHz	2	Telemetry band		Land mobile radio, telemetry, SRD	Individual radio transmitters. License exempt: SRD, Telemetry in certain sub-bands	
440 MHz	442 MHz	2	430	430-432	Fixed Radio (Telemetry)	Individual radio transmitters	
442 MHz	450 MHz	8	LMR 400 MHz band (high part)		Land mobile radio, Telemetry simplex and duplex, PMR 446.	Individual radio transmitters. License exempt: PMR 446 etc.	
450 MHz	452.5 MHz	2.5	LMR 450 MHz band	460 to 462.5	Land mobile radio - simplex and duplex	Individual radio transmitters	
452.5 MHz	457.5 MHz	5	450 MHz band	462.5 to 467.5	Electronic communications services (MFCN). Land mobile radio on NIB	National block licenses	
457.5 MHz	462.5 MHz	5	LMR 450 MHz band	467.5-470 450-452.5	Land mobile radio - simplex and duplex, Maritime Radio (onboard communication)	Individual radio transmitters	
462.5 MHz	467.5 MHz	5	450 MHz band	452.5 to 457.5	Electronic communications services (MFCN). Land mobile radio on NIB	National block licenses	
467.5 MHz	470 MHz	2.5	LMR 450 MHz band	457.5 to 460	Land mobile radio - simplex and duplex, Maritime radio (onboard communication)	Individual radio transmitters	
470 MHz	694 MHz	224	UHF band IV/V		Digital TV (DVB-T), Wireless microphones	Individual radio transmitters	
694 MHz	703 MHz	9	700 MHz band		EMPTY	Individual radio transmitters	
703 MHz	713 MHz	10	700 MHz band		EMPTY		
713 MHz	733 MHz	20	700 MHz band / FDD up		Electronic communications services (MFCN)	Block licenses	
733 MHz	738 MHz	5	700 MHz band		EMPTY	Individual radio transmitters	
738 MHz	758 MHz	20	700 MHz band / SDL		EMPTY		
758 MHz	768 MHz	10	700 MHz band		EMPTY		
768 MHz	788 MHz	20	700 MHz band / FDD down		Electronic communications services (MFCN)	Block licenses	
788 MHz	790 MHz	2	700 MHz band		EMPTY	Individual radio transmitters	
790 MHz	791 MHz	1			EMPTY		
791 MHz	821 MHz	30	800 MHz band	832-862	Electronic communications services (MFCN)	National block licenses	
821 MHz	823 MHz	2			EMPTY		Extension of PMSE to 821.5-832 MHz
823 MHz	832 MHz	9	800 MHz band middle cover		Wireless microphones and hearing aids	License exempt	Extension of PMSE to 821.5-832 MHz
832 MHz	862 MHz	30	800 MHz band	791-823	Electronic communications services (MFCN)	National block licenses	
862 MHz	863 MHz	1			SRD	License exempt	
863 MHz	870 MHz	7	SRD-800		SRD (Wireless microphones, RFID data networks etc.)	License exempt	
870 MHz	874.4 MHz	4.4	870 MHz band		Licensed and licens exempted SRD, data transmission	License exempt: Telemetry and RC radio for 870,5375-870,6625 MHz Block licenses: National, regional or local with conditions according to ERC / REC 70-03. Individual radio transmitters: Other use	
874.4 MHz	876 MHz	1.6	Ext GSM-R / RMR	919.4 to 921	EMPTY		Future Rail Mobile Communications System (FRMCS)
876 MHz	880 MHz	4	GSM-R	921-925	Mobile communication (GSM-R). Used only along railway tracks	Block licenses	Migration from GSM-R to FRMCS
880 MHz	915 MHz	35	900 MHz band	925-960	Electronic communications services (MFCN)	National block licenses. License exempt: Mobile communication (GSM) on Swedish-registered vessels	
915 MHz	919.4 MHz	4.4	915 MHz band		Licensed SRD, data transmission, RFID	Individual radio transmitters Block licenses: National, regional or local with conditions according to ERC / REC 70-03	
919.4 MHz	921 MHz	1.6	Ext GSM-R / RMR	874.4 to 876	EMPTY		Future Rail Mobile Communications System (FRMCS)
921 MHz	925 MHz	4	GSM-R	876-880	Mobile communication (GSM-R). Used only along railway tracks	Block licenses	Migration from GSM-R to FRMCS
925 MHz	960 MHz	35	900 MHz band	880-915	Electronic communications services (MFCN)	National block licenses	
960 MHz	1164 MHz	204			Aeronautical radionavigation, Aeronautical Radio (SSR, DME), GFT (ADS-B), MIL	Individual radio transmitters	
1164 MHz	1215 MHz	51	GALILEO / GPS / GLONASS		Aeronautical radionavigation, Satellite navigation (Galileo), MIL	Individual radio transmitters. Usage governed by satellite coordination	
1215 MHz	1240 MHz	25	GPS		Radiolocation, Satellite navigation (GPS)	Usage governed by satellite coordination	
1240 MHz	1300 MHz	60	GLONASS / GALILEO		Radiolocation, Satellite navigation (Galileo), Amateur radio	Usage governed by satellite coordination. License exempt: Amateur radio (up to 200 W). Individual radio transmitters:	
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	
1375 MHz	1400 MHz	25	1.4 GHz	1427-1452	Radio astronomy, MIL	Individual radio transmitters	
1400 MHz	1427 MHz	27			Radio astronomy, Earth exploration via satellite	All radioemissions are prohibited	
1427 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)		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 coordination	

1525 MHz	1559 MHz	34	L-band		Satellite (MSS downlink), Maritime radio (Emergency and security traffic), MIL	Usage governed by satellite coordination	
1559 MHz	1610 MHz	51	L-band GALILEO / GPS / GLONASS		Satellite navigation (GPS, Galileo), GNSS repeaters	Usage governed by satellite coordination. Individual radio transmitters.	
1610 MHz	1626.5 MHz	16.5	L-band	2483.5 to 2500	Earth stations, Maritime radio (Emergency and security traffic) 1621.35-1626.5 MHz, Radio astronomy	License exempt (1610-1621.35 MHz)	
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 astronomy		
1675 MHz	1710 MHz	35	L-band		Satellite meteorology	Usage governed by satellite 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, exemption	1875-1880	Electronic communications services (MFCN)	License exempt	
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), Video-PMSE	National block licenses for ground components.	
2010 MHz	2025 MHz	15	2010 MHz band		Video-PMSE, MIL	Individual radio transmitters	
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 components.	
2200 MHz	2290 MHz	90	TT & C	2025-2110	Satellite (TT&C downlink), Space Research, VLBI, Video-PMSE, MIL	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 1626.5	Satellite (MSS downlink) Satellite (Galileo navigation system)	Usage governed by satellite coordination	
2500 MHz	2690 MHz	190	2.6 GHz band		Electronic communications services (MFCN)	National block licenses	
2690 MHz	2700 MHz	10			Radio astronomy	All radioemissions prohibited	
2700 MHz	2900 MHz	200	2.8 GHz band		Aeronautical radionavigation, Radar		
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	100			Radiolocation Radio astronomy MIL	Individual radio transmitters	
3.4 GHz	3.72 GHz	320	3.5 GHz band		Electronic communications services (MFCN)	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			Aeronautical radionavigation , WAIC, Altimeter, Earth exploration, MIL	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			Radio astronomy MIL		
4.99 GHz	5 GHz	10			Radio astronomy		
5 GHz	5.15 GHz	150	MLS band		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	
5.35 GHz	5.46 GHz	110			Aeronautical radionavigation, Aeronautical radio, Earth exploration via satellite (active), MIL		
5.46 GHz	5.47 GHz	10			Aeronautical radionavigation, Earth exploration via satellite (active), MIL		
5.47 GHz	5.57 GHz	100	5 GHz band		Radionavigation, Wireless networks, MIL	SRD license exempt	
5.57 GHz	5.65 GHz	80	5 GHz band		Maritime radionavigation, Wireless networks, Meteorological radar, MIL	SRD license exempt	

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 via satellite (use over sea)		
6.44 GHz	6.76 GHz	320	High 6 GHz AP30B C band	6780-7100 4500-4800	Fixed radio, Earth stations (FSS uplink), Earth exploration via satellite (use over sea)	Individual radio transmitters	
6.76 GHz	6.78 GHz	20	High 6 GHz AP30B C band	4500-4800	Guard band (Fixed radio), Earth stations (FSS uplink), Earth exploration via satellite (use over sea)	Individual radio transmitters	
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	150			Satellite meteorology (s-e)		
7.9 GHz	8,185 GHz	285	8 GHz X band	8210-8495	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 fixed radio for at least ten years.
8,185 GHz	8.21 GHz	25	8 GHz X band		Guard band (Fixed radio), Earth exploration via satellite	Individual radio transmitters	
8.21 GHz	8,495 GHz	285	8 GHz X band	7900-8185	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 fixed radio for at least ten years.
8,495 GHz	9.8 GHz	1305			Radiolocation, Radionavigation for aeronautical and maritime, Earth exploration (active), SRD, MIL	Individual radio transmitters	
9.8 GHz	9.9 GHz	100		9900-10000	Earth exploration (active), SRD, MIL	Individual radio transmitters	
9.9 GHz	10 GHz	100		9800-9900	Earth exploration (active), SRD, MIL	Individual radio transmitters	
10 GHz	10.21 GHz	210			Radiolocation Earth exploration (active), SRD, Amateur Radio, MIL	Individual radio transmitters 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	
11.2 GHz	11.45 GHz	250	AP30B Ku-band	12750-13250	Satellite (FSS downlink, AP30B)	Usage governed by satellite coordination	
11.45 GHz	11.7 GHz	250	Ku-band		Satellite (FSS downlink)	Usage governed by satellite coordination	
11.7 GHz	12.5 GHz	800	AP30B Ku-band	17300-18100	Satellite (BSS downlink, AP30, Satellite TV)	Usage governed by satellite coordination	
12.5 GHz	12.75 GHz	250	Ku-band		Satellite (FSS downlink)	Usage governed by satellite coordination	

12.75 GHz	12,863 GHz	113	13 GHz AP30B Ku band	FS: 13017-13130 FSS: 10700-10950 FSS: 11200-11450	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 fixed radio for at least ten years.
12,863 GHz	13,017 GHz	154	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	15 GHz		Guard band (Fixed radio), MIL		
14.921 GHz	15,201 GHz	280	15 GHz	14500-14781	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 / 25,557-26,453 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 out.

25,1 GHz	26,5 GHz	1400	26 GHz band		Fixed radio 24,549-25,445 GHz / 25,557-26,453 GHz, Vehicular radar (SRR)	Individual radio transmitters: Fixed radio. License exempt: SRR	25.1-27.5 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. 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	500	Ka band		Earth station (FSS / MSS uplink)	License exempt	
30 GHz	31 GHz	1000	Ka band		Receiving satellites MIL		
31 GHz	31.3 GHz	300	31 GHz		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			Guard band (Fixed radio)		
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	33.4 GHz	17			Guard band (Fixed radio)		
33.4 GHz	34 GHz	600			EMPTY		
34 GHz	35.2 GHz	1200			MIL		
35.2 GHz	37 GHz	1800			Earth exploration via satellite, Radio astronomy MIL		
37 GHz	37.058 GHz	58			Guard band (Fixed radio)		
37.058 GHz	38.178 GHz	1120	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			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 astronomy	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			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	