MALTA COMMUNICATIONS AUTHORITY

Sixteenth Schedule to Decision No. MCA/D-22-4662

Apparatus General Authorisation for Apparatus used for Radiodetermination Applications

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Revision History of the Sixteenth Schedule

Apparatus used for Radiodetermination Applications

Date	Comments
13/11/2023	Publication
28/11/2025	Implementation of Commission Implementing Decision (EU) 2025/105

This Schedule shall be read and construed as one with Part I and Part II of Decision No. MCA/D/22-4662

Adopted pursuant to Article 30A of the Electronic Communications (Regulation) Act (Cap. 399) establishing the radiocommunications apparatus general authorisation

Article 1 – Applicability

This apparatus general authorisation applies to any person installing or using apparatus intended to be used for radiodetermination applications or any apparatus intended to be used as a component part of that apparatus.

Article 2 – Interpretation

In this Schedule unless the context otherwise requires:

(1) “radiodetermination applications" refers to applications used for determining the position, velocity and any other characteristics of an object, or for obtaining information relating to these parameters;

(2) “enclosed Nuclear Magnetic Resonance sensors” or “enclosed NMR sensors” means enclosed devices where the material/object under investigation is put inside the enclosure of the NMR apparatus, using NMR techniques;

(3) “NMR techniques” means techniques using nuclear magnetic resonance excitation and magnetic field strength response of a material/object under test to get information about material properties based on resonance frequency responses of isotopes of atoms, but exclude nuclear magnetic resonance imaging and magnetic resonance tomography systems;

(4) “security scanners” refer to a specific type of radiodetermination applications which are used to detect objects carried by a person or on a person’s body for security screening purposes without making any physical contact; and

(5) "Tank Level Probing Radar" or "TLPR" means a specific type of radiodetermination application, which is used for tank level measurements and is installed in metallic or reinforced concrete tanks, or similar structures made of material with comparable attenuation characteristics. The purpose of the tank is to contain a substance.

Article 3 – Minimum technical parameters

The minimum technical parameters of apparatus used for radiodetermination applications shall be those specified in the Annex to this Schedule.

Annex to the Sixteenth Schedule
Minimum Technical Parameters for Apparatus used for Radiodetermination Applications

Frequency band	Transmit power limit/power density limit	Additional parameters	Other usage parameters	Frequency band reference (informative)
9-148 kHz	46 dBµA/m at 10 m distance at a reference of 100 Hz, outside the NMR apparatus Magnetic field strength descending 10 dB/decade above 100 Hz		This set of usage conditions is only available for enclosed NMR applications.	90
148-5000 kHz	-15 dBµA/m at 10 m distance outside the NMR apparatus		This set of usage conditions is only available for enclosed NMR applications.	91
5000-30000 kHz	-5 dBµA/m at 10 m distance outside the NMR apparatus		This set of usage conditions is only available for enclosed NMR applications.	92
30-130 MHz	-36 dBm e.r.p. outside the NMR apparatus		This set of usage conditions is only available for enclosed NMR applications.	93
2400-2483.5 MHz	25 mW e.i.r.p.			57b

Frequency band	Transmit power limit/power density limit	Additional parameters	Other usage parameters	Frequency band reference (informative)
4500-7000 MHz	24 dBm e.i.r.p.[1]	Requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for TLPR.	60
6000-8500 MHz	7 dBm/50 MHz peak e.i.r.p. -33 dBm/MHz mean e.i.r.p.	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for Level Probing Radar.	63
8500-10600 MHz	30 dBm e.i.r.p.	Requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for TLPR.	64
13.4-14 GHz	25 mW e.i.r.p.			k
17.1-17.3 GHz	26 dBm e.i.r.p.	Requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for ground-based Synthetic Aperture Radar (SAR) systems[3].	65
24.05-26.5 GHz	26 dBm/50 MHz peak e.i.r.p. -14 dBm/MHz mean e.i.r.p.	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for Level Probing Radar.	67

Frequency band	Transmit power limit/power density limit	Additional parameters	Other usage parameters	Frequency band reference (informative)
24.05-27 GHz	43 dBm e.i.r.p.[1]	Requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for TLPR.	68
57-64 GHz	43 dBm e.i.r.p.[1]	Requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for TLPR.	74b
57-64 GHz	35 dBm/50 MHz peak e.i.r.p. -2 dBm/MHz mean e.i.r.p.	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for Level Probing Radar.	74c
69.8-79.9 GHz	7 dBm e.i.r.p.		This set of usage conditions is only available for security scanners operated indoors.	97
75-85 GHz	34 dBm/50 MHz peak e.i.r.p. -3 dBm/MHz mean e.i.r.p.	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for Level Probing Radar.	78a
75-85 GHz	43 dBm e.i.r.p.[1]	Requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available to TLPR.	78b

Frequency band	Transmit power limit/power density limit	Additional parameters	Other usage parameters	Frequency band reference (informative)
76-77 GHz	48 dBm mean e.i.r.p. 18 dBm/MHz mean e.i.r.p. density	Requirements on techniques to access spectrum and mitigate interference apply[2].	This set of usage conditions is only available for ground-based SAR systems[3].	98
76.5-80.5 GHz	19 dBm peak e.i.r.p.	At least 23 dB out-of-band attenuation relative to the maximum allowed peak. e.i.r.p. is required.	This set of usage conditions is only available for security scanners operated indoors.	99

Notes:

[1] The power limit applies inside a closed tank and corresponds to a spectral density of -41.3 dBm/MHz e.i.r.p. outside a 500 litre test tank.

[2] Techniques to access spectrum and mitigate interference that provide an appropriate level of performance to comply with the essential requirements of Directive 2014/53/EU shall be used. If relevant techniques are described in harmonised standards or parts thereof the references of which have been published in the *Official Journal of the European Union* under Directive 2014/53/EU, performance at least equivalent to these techniques shall be ensured.

[3] Ground-based SAR systems are intended to for deformation monitoring of terrain and natural or man-made structures, performed by interferometry radar.