



## **RO-IR 06**

# **TECHNICAL REGULATION**

for the radio interface

concerning radio determination devices

#### 1. Basic Considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was implemented in national legislation by Government Decision No. 740/2016 on making available on the market of radio equipment, with subsequent amendments and completions.

This technical regulation contains the requirements for the license exempted radio spectrum usage by the devices intended for radio determination applications in the specified frequency bands and considers compliance, especially with the provisions of Article 3 Paragraph 2 and Articles 6-8 of Directive 2014/53/EU.

This technical regulation does not exclude the obligation for radio equipment placed on the market or made available on the market in Romania to comply with Directive 2014/53/EU.

The obligations arising from Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services are met in this regulation (OJ L 241, 17.9.2015, pages 1–15).

All Romanian technical regulations for the radio interfaces notified under Directive (EU) 2015/1535 shall be published and made available on National Authority for Management and Regulation in Communications (ANCOM) web-site at: http://www.ancom.ro/reglementari-interfete 2723.

### 2. Radio Interface Specifications

#### **Radiodetermination devices**

Frequency band	Annex
2 400 – 2 483.5 MHz	RO-IR 06-01
4 500 – 7 000 MHz	RO-IR 06-02
6 000 – 8 500 MHz	RO-IR 06-03
8 500 – 10 600 MHz	RO-IR 06-04
9 200 – 9 500 MHz	RO-IR 06-05
9 500 – 9 975 MHz	RO-IR 06-06
10.5 – 10.6 GHz	RO-IR 06–07
13.4 – 14 GHz	RO-IR 06-08
17.1 – 17.3 GHz	RO-IR 06-09
24.05 – 24.25 GHz	RO-IR 06–10
24.05 – 26.5 GHz	RO-IR 06–11
24.05 – 27 GHz	RO-IR 06–12
57 – 64 GHz	RO-IR 06–13a; RO-IR 06–13b
75 – 85 GHz	RO-IR 06–14a; RO-IR 06–14b

For the purpose of this technical regulation, *Short-Range Device (SRD)* means a radio device which provides unidirectional or bidirectional communication and which receives and/or transmits signals over a short distance and at low power. Radio determination devices are also part of short-range devices category.

For the purpose of this technical regulation, *the radio determination device category* covers radio devices that are used for determining the position, velocity and/or other characteristics of an object, or for obtaining information relating to these parameters. Radio determination equipment usually performs measurements in order to obtain these characteristics. Any types of point-to-point or point-to-multipoint radio communications are excluded.

For the purpose of this technical regulation, *mean equivalent isotropic radiated power (e.i.r.p.)* means mediated e.i.r.p. during a transmission burst for positioning the transmitter power control that corresponds to the highest power, if power control was implemented in the transmitter.

For the purpose of this technical regulation, *Tank Level Probing Radar (TLPR)* is a specific type of radio determination application which is used for level measurements of substances that are contained in tanks and is installed in metallic or reinforced concrete tanks or in similar structures made of materials with comparable attenuation characteristics. The tanks are used for storing the substances.

For the purpose of this technical regulation, *non-interference and non-protected* means that it is not allowed to cause any harmful interference to radio communications service and that it shall not be claimed the protection of these devices against harmful interference originating from radio communications services.

The use of radio spectrum by short-range devices is allowed on a non-interference and non-protected basis provided that such devices meet the conditions set out in the Annexes below.

### 3. Document history:

Edition	Changes
Edition 1/2014	Notification number according to Directive 98/34/EC: 2014/602/RO.
Edition 2/2018	Update according to Commission Implementing Decision (EU) 2017/1483 amending Decision 2006/771/EC on harmonizing the radio spectrum for the use of short range devices and repealing Decision 2006/804/EC: RO-IR 06-01 $\div$ RO-IR 06-04, RO-IR 06-09, RO-IR 06-11 $\div$ RO-IR 06-14b;
(06.08.2018)	Update of the legal framework according to Point 1 – "Basic considerations" and reference documents (row 13); Formal changes according to TCAM-RSC pattern of November 2017.
Edition 3/2020	Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices:
(23.12.2020)	Introduction/updating of definitions and terms.
	Update of the legal framework according to Point $1$ – "Basic considerations" and reference documents (row 13);

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-01	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	
	3	Frequency band	2 400 – 2 483.5 MHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
Part	5	Modulation/Occupied bandwidth	-	
Normative Part	6	Direction/Separation	-	
Nor	7	Transmit power / Power density	25 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
	12	Planned changes	-	
Informative Part	13	Reference	EN 300 440; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
nfor	14	Notification number	-	
"	15	Remarks	-	
	1 DTID	Edition 1. Dovinion 1		

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-02	Edition 3/2020
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Nr	Parameter	Description	Comments
1	Radiocommunication Service	Mobile	
2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to tank level probing radar transducers (TLPR)
3	Frequency band	4 500 – 7 000 MHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
4	Channeling (channel distribution)	-	
5	Modulation/Occupied bandwidth	-	
6	Direction/Separation	-	
7	Transmit power / Power density	24 dBm e.i.r.p.	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 test tank structure of 500 liters.
8	Channel occupation and access rules	Requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
9	Authorization regime	License exemption	
10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
11	Assumptions on spectrum planning	-	
12	Planned changes	-	
13	Reference	EN 302 372; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
14	Notification number	-	
15	Remarks	-	
	1 2 3 4 5 6 7 8 8 9 10 11 12 13	Application  Frequency band  Channeling (channel distribution)  Modulation/Occupied bandwidth  Direction/Separation  Transmit power / Power density  Channel occupation and access rules  Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)  Assumptions on spectrum planning Planned changes  Reference	Radiocommunication Service   Mobile

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-03	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, o level probing radar transducers (LPR).  Established exclusion zones around radio astronomy stations shall be avoided.
	3	Frequency band	6 000 – 8 500 MHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	7 dBm/50 MHz peak e.i.r.p. and - 33 dBm/MHz mean e.i.r.p.	
Normative Part	8	Channel occupation and access rules	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.  Antenna requirements that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.  Automatic power control that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall be used. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.
	9	Authorization regime	License exemption	

	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
ť	12	Planned changes	-	
mative Par	13	Reference	EN 302 729; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03; ECC/DEC/(11)02	
Infor	14	Notification number	-	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-04	Edition 3/2020	

	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to level probing radar transducers (TLPR)
	3	Frequency band	8 500 – 10 600 MHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
٠,	6	Direction/Separation	-	
Normative Part	7	Transmit power / Power density	30 dBm e.i.r.p.	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 test tank structure of 500 liters
Norm	8	Channel occupation and access rules	Requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
<b>-</b>	12	Planned changes	-	
Informative Part	13	Reference	EN 302 372; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
nfor	14	Notification number	-	
H	15	Remarks	-	
		Edition 1 Dovision 1		•

Nr	Parameter	Description	Comments
1	Radiocommunication Service	Mobile	
2	Application	Short Range Devices / Radio determination applications Short range radar, motion and alert detection applications	
3	Frequency band	9 200 – 9 500 MHz	
4	Channeling (channel distribution)	-	
5	Modulation/Occupied bandwidth	-	
6	Direction/Separation	-	
7	Transmit power / Power density	25 mW e.i.r.p.	
8	Channel occupation and access rules	-	
9	Authorization regime	License exemption	
10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
11	Assumptions on spectrum planning	-	
12	Planned changes	-	
13	Reference	EN 300 440; ERC/REC 70-03	
14	Notification number	2014/602/RO	
15	Remarks	-	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 Radiocommunication Service 2 Application 3 Frequency band 4 Channeling (channel distribution) 5 Modulation/Occupied bandwidth 6 Direction/Separation 7 Transmit power / Power density 8 Channel occupation and access rules 9 Authorization regime 10 Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive) 11 Assumptions on spectrum planning 12 Planned changes 13 Reference 14 Notification number	1 Radiocommunication Service Mobile  2 Application Short Range Devices / Radio determination applications Short range radar, motion and alert detection applications  3 Frequency band 9 200 – 9 500 MHz  4 Channeling (channel distribution) -  5 Modulation/Occupied bandwidth -  6 Direction/Separation -  7 Transmit power / Power density 25 mW e.i.r.p.  8 Channel occupation and access rules -  9 Authorization regime License exemption  10 Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)  11 Assumptions on spectrum planning -  12 Planned changes -  13 Reference EN 300 440; ERC/REC 70-03  14 Notification number 2014/602/RO

ROMANIA Radio	o Interface Specification	SRD / Radio determination applications	RO-IR 06-06	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices Short range radar, motion and alert detection applications	
	3	Frequency band	9 500 – 9 975 MHz	
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
re Part	6	Direction/Separation	-	
Normative Part	7	Transmit power / Power density	25 mW e.i.r.p.	
Z	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
4	12	Planned changes	-	
Par	13	Reference	EN 300 440; ERC/REC 70-03	
ative	14	Notification number	2014/602/RO	
Informative Part	15	Remarks	-	

MANIA Radio Interface Specification SRD / Radio determination application	
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Nr	Parameter	Description	Comments
1	Radiocommunication Service	Mobile	
2	Application	Short Range Devices / Radio determination applications Short range radar, motion and alert detection applications	
3	Frequency band	10.5 – 10.6 GHz	
4	Channeling (channel distribution)	-	
5	Modulation/Occupied bandwidth	-	
6	Direction/Separation	-	
7	Transmit power / Power density	500 mW e.i.r.p.	
8	Channel occupation and access rules	-	
9	Authorization regime	License exemption	
10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
11	Assumptions on spectrum planning	-	
12	Planned changes	-	
13	Reference	EN 300 440; ERC/REC 70-03	
14	Notification number	2014/602/RO	
15	Remarks	-	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 Radiocommunication Service 2 Application 3 Frequency band 4 Channeling (channel distribution) 5 Modulation/Occupied bandwidth 6 Direction/Separation 7 Transmit power / Power density 8 Channel occupation and access rules 9 Authorization regime 10 Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive) 11 Assumptions on spectrum planning 12 Planned changes 13 Reference 14 Notification number 15 Remarks	1 Radiocommunication Service Mobile 2 Application Short Range Devices / Radio determination applications Short range radar, motion and alert detection applications 3 Frequency band 10.5 – 10.6 GHz 4 Channeling (channel distribution) - 5 Modulation/Occupied bandwidth - 6 Direction/Separation - 7 Transmit power / Power density 500 mW e.i.r.p.  8 Channel occupation and access rules - 9 Authorization regime License exemption 10 Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive) 11 Assumptions on spectrum planning - 12 Planned changes - 13 Reference EN 300 440; ERC/REC 70-03 14 Notification number 2014/602/RO 15 Remarks -

ROMANIA Radio Interface	Specification   SKD / Radio determination applica	tion RO-IR 06-08	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination applications Short range radar, motion and alert detection applications	
	3	Frequency band	13.4 – 14 GHz	
	4	Channeling (channel distribution)	-	
멑	5	Modulation/Occupied bandwidth	-	
ive Pa	6	Direction/Separation	-	
Normative Part	7	Transmit power / Power density	25 mW e.i.r.p.	
Z	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Ę	12	Planned changes	-	
e Pa	13	Reference	EN 300 440; ERC/REC 70-03	
nativ	14	Notification number	2014/602/RO	
Informative Part	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-09	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to land placed systems.
	3	Frequency band	17.1 – 17.3 GHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
Part	6	Direction/Separation	-	
ive F	7	Transmit power / Power density	26 dBm e.i.r.p.	
Normative Part	8	Channel occupation and access rules	Requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)		
	11	Assumptions on spectrum planning	4	
+	12	Planned changes	-	
Informative Part	13	Reference	EN 300 440; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
nfor	14	Notification number	-	
F	15	Remarks	-	
	DITE	Edition:1: Devision:1		

ROMANIA	Radio Interface Specification	SRD / Radio determination applications	RO-IR 06-10	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination applications Short range radar, motion and alert detection applications	
	3	Frequency band	24.05 – 24.25 GHz	
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
Part	6	Direction/Separation	-	
Normative Part	7	Transmit power / Power density	100 mW e.i.r.p.	
Š	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
벌	12	Planned changes	-	
le Pa	13	Reference	EN 300 440; ERC/REC 70-03	
nativ	14	Notification number	2014/602/RO	
Informative Part	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-11	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to level probing radar transducers (LPR).  Established exclusion areas around radio astronomy stations shall be kept off.
	3	Frequency band	24.05 – 26.5 GHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	26 dBm/50 MHz peak e.i.r.p. and $-14$ dBm/MHz mean e.i.r.p.	
Normative Part	8	Channel occupation and access rules	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply.  If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.  Antenna requirements that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.  Automatic power control that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.
Ì	9	Authorization regime	License exemption	

	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
4	12	Planned changes	-	
nformative Part	13	Reference	EN 302 729; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03; ECC/DEC/(11)02	
	14	Notification number	-	
Ē	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-12	Edition 3/2020
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Nr	Parameter	Description	Comments
1	Radiocommunication Service	Mobile	
2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to tank level probing radar transducers (TLPR)
3	Frequency band	24.05 – 27 GHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
4	Channeling (channel distribution)	-	
5	Modulation/Occupied bandwidth	-	
6	Direction/Separation	-	
7	Transmit power / Power density	43 dBm e.i.r.p.	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 test tank of 500 liters
8	Channel occupation and access rules	Requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
9	Authorization regime	License exemption	
10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
11	Assumptions on spectrum planning		
12	Planned changes	-	
13	Reference	EN 302 372; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
14	Notification number	-	
15	Remarks	-	
	1 2 3 4 5 6 7 8 9 10 11 12 13	1 Radiocommunication Service 2 Application 3 Frequency band 4 Channeling (channel distribution) 5 Modulation/Occupied bandwidth 6 Direction/Separation 7 Transmit power / Power density 8 Channel occupation and access rules 9 Authorization regime 10 Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive) 11 Assumptions on spectrum planning 12 Planned changes 13 Reference	Mobile  Application Short Range Devices / Radio determination devices  Frequency band Short Range Devices / Radio determination devices  Frequency band 24.05 – 27 GHz  Channeling (channel distribution) -  Modulation/Occupied bandwidth -  Direction/Separation -  Transmit power / Power density 43 dBm e.i.r.p.  Channel occupation and access rules Requirements on techniques to access spectrum and mitigate interference shall apply  Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)  Assumptions on spectrum planning -  Planned changes -  Reference EN 302 372; Commission Implementing Decision (EU) 2019/1345 amendings Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-13a	Edition 3/2020	

	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to tank level probing radar transducers (TLPR)
	3	Frequency band	57 – 64 GHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
۱ ـ	6	Direction/Separation	-	
Normative Part	7	Transmit power / Power density	43 dBm e.i.r.p.	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 test tank of 500 liters.
Norm	8	Channel occupation and access rules	Requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)		
	11	Assumptions on spectrum planning	-	
٠,	12	Planned changes	-	
Informative Part	13	Reference	EN 302 372; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
nfor	14	Notification number	-	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-13b	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to tank level probing radar transducers (LPR)
	3	Frequency band	57 – 64 GHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	35 dBm/50 MHz peak e.i.r.p. and -2 dBm/MHz mean e.i.r.p.	
Normative Part	8	Channel occupation and access rules	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
				Antenna requirements that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.
				Automatic power control that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.
	9	Authorization regime	License exemption	

	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
mative Part	12	Planned changes	-	
	13	Reference	EN 302 729; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03; ECC/DEC/(11)02	
lfor	14	Notification number	-	
Ē	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-14a	Edition 3/2020
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	Nr	Parameter	Description	Comments
	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions applies exclusively, to tank level probing radar transducers (TLPR)
	3	Frequency band	75 – 85 GHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
4	6	Direction/Separation	-	
Normative Part	7	Transmit power / Power density	43 dBm e.i.r.p.	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 test tank of 500 liters.
Norma	8	Channel occupation and access rules	Requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
ı	12	Planned changes	-	
Informative Part	13	Reference	EN 302 372; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
nfor	14	Notification number	-	
н	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Radio determination devices	RO-IR 06-14b	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Radio determination devices	This set of usage conditions shall apply exclusively, to tank level probing radar transducers (LPR).  Established exclusion zones around radio astronomy stations shall be avoided.
	3	Frequency band	75 – 85 GHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	34 dBm/50 MHz peak e.i.r.p. and -3 dBm/MHz mean e.i.r.p.	
	8	Channel occupation and access rules	Automatic power control and antenna requirements as well as requirements on techniques to access spectrum and mitigate interference shall apply	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to comply with the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.  Antenna requirements that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.  Automatic power control that provide an appropriate performance
				level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these requirements shall be ensured.
	9	Authorization regime	License exemption	

	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 302 729; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03; ECC/DEC/(11)02	
	14	Notification number	-	
	15	Remarks	-	