

RADIO TEST REPORT – REP096247

Type of assessment:

Transmitters co-location

Applicant:

Advanced Microwave Engineering S.r.l.

Via Lucca, 44 – 50142 Firenze (FI) – Italy

Model:

LPSUWB102

FCC ID:

Contains

FCC ID: UKOUWBTRPHA02

FCC ID: QOQ-BT122

IC Registration number:

Contains

IC: 33792-UWBTRPHA02

IC: 5123A-BT122

Specifications:

◆ **FCC 47 CFR Part 15 Subpart C, §15.209**

Radiated emission limits; general requirements.

◆ **RSS-GEN, Issue 5, Apr. 2018, section 8.9**

Transmitter Emission Limits

Date of issue: 2025-05-12

P. Barbieri

Tested by

Signature

R. Giampaglia

Reviewed by

Signature

Test location(s)

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Site number	FCC: 682159; IC: 9109A

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report. This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko Spa ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Advanced Microwave Engineering S.r.l.
Address	Via Lucca, 44 – 50142 Firenze (FI) – Italy

1.2 Test specifications

FCC 47 CFR Part 15 Subpart C, §15.209	Radiated emission limits; general requirements.
RSS-GEN, Issue 5, section 8.9	Transmitter Emission Limits
Amendment 1 (March 2019)	
Amendment 2 (February 2021)	

1.3 Test methods

ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices Amendment 1

1.4 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was performed against all relevant requirements of the test standard except as noted in section 1.5 below. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See “Summary of test results” for full details.

1.5 Exclusions

As per quote, the purpose of this report is verification of transmitters colocation. Only inter-modulation products within restricted bands were assessed, other requirements were excluded from the scope of this report.

1.6 Test report revision history

Revision #	Date of issue	Details of changes made to test report
REP096247	2025-05-12	Original report issued

Section 2. Summary of test results

2.1 FCC Part 15 Subpart C, general requirements test results

Part	Test description	Verdict
§15.209	Radiated emission limits; general requirements.	Pass

2.2 ISED RSS-GEN, Issue 5, test results

Part	Test description	Verdict
8.9	Transmitter Emission Limits	Pass

Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	2025-04-07
Testing start date	2025-04-10
Testing termination date	2025-05-07
Nemko sample ID number	PRJ0077480

3.2 EUT information

Model	LPSUWB102
Serial number	041672 for 4 GHz test and 041673 for 6.5 GHz test

3.3 Technical information

Frequency band	BT: 2400 – 2483.5 MHz band UWB: 3774 to 4243.2 GHz and 6240 to 6739.2 GHz
Emission classification (F1D, G1D, D1D)	W7D
EUT power requirements	12 / 24 V DC
Antenna information	The EUT uses a unique antenna coupling/ non-detachable antenna to the intentional radiator.

3.4 EUT setup diagram

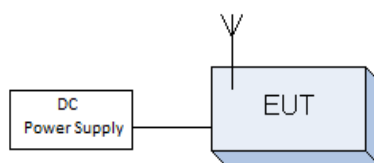


Figure 3.4-1: Setup diagram

3.5 Product description and theory of operation

The EUR is a radio frequency sensor that uses UWB type signals to detect the spatial position of a nearby tag. The device is typically used on mobile means such as lift trucks. The power supply is in low voltage 12 / 24V in direct current but it also has a battery version that allows it to operate even without any electrical connection. Even if the battery is installed, recharging takes place by powering the system at 12/24 V from the vehicle battery. The EUT is also equipped with a Bluetooth interface with which it connects to other devices, typically a tablet or other portable devices.

3.6 EUT exercise details

The EUT has been tested in normal working condition with the BT radio module linked to a tablet

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None.

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

In the laboratory, the following ambient conditions are respected for each test reported below:

Temperature	18 – 33 °C
Relative humidity	25 – 70 %
Air pressure	860 – 1060 mbar

The following instruments are used to monitor the environmental conditions:

Equipment	Manufacturer	Model no.	Asset no.	Cal date	Next cal.
Thermo-hygrometer data loggers	Testo	175-H2	20012380/305	2025-01	2027-01
Thermo-hygrometer data loggers	Testo	175-H2	20013013/305	2025-01	2027-01
Barometer	Castle	GPB 3300	072015	2025-03	2026-03

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

The measurement uncertainty was calculated for each test and quantity listed in this test report, according to CISPR 16-4-2, ETSI TR 100 028-1, ETSI TR 100 028-2 and other specific test standards and is documented in Nemko Spa working manuals WML1002 and WML0078.

The assessment of conformity for each test performed on the equipment is performed not taking into account the measurement uncertainty. The two following possible verdicts are stated in the report:

P (Pass) - The measured values of the equipment respect the specification limit at the points tested. The specific risk of false accept is up to 50% when the measured result is close to the limit.

F (Fail) - One or more measured values of the equipment do not respect the specification limit at the points tested. The specific risk of false reject is up to 50% when the measured result is close to the limit.

Hereafter Nemko's measurement uncertainties are reported:

EUT	Type	Test	Range	Measurement Uncertainty	Notes
Transmitter	Conducted	Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)
		Carrier power RF Output Power	0.009 MHz ÷ 30 MHz	1.1 dB	(1)
			30 MHz ÷ 18 GHz	1.5 dB	(1)
			18 MHz ÷ 40 GHz	3.0 dB	(1)
			40 MHz ÷ 140 GHz	5.0 dB	(1)
		Adjacent channel power	1 MHz ÷ 18 GHz	1.4 dB	(1)
		Conducted spurious emissions	0.009 MHz ÷ 18 GHz	3.0 dB	(1)
			18 GHz ÷ 40 GHz	4.2 dB	(1)
			40 GHz ÷ 220 GHz	6.0 dB	(1)
		Intermodulation attenuation	1 MHz ÷ 18 GHz	2.2 dB	(1)
		Attack time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Attack time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Release time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)
		Release time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)
		Transient behaviour of the transmitter– Transient frequency behaviour	1 MHz ÷ 18 GHz	0.2 kHz	(1)
		Transient behaviour of the transmitter – Power level slope	1 MHz ÷ 18 GHz	9%	(1)
		Frequency deviation - Maximum permissible frequency deviation	0.001 MHz ÷ 18 GHz	1.3%	(1)
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001 MHz ÷ 18 GHz	0.5 dB	(1)
		Dwell time	-	3%	(1)
		Hopping Frequency Separation	0.01 MHz ÷ 18 GHz	1%	(1)
		Occupied Channel Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)
		Modulation Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)
	Radiated	Radiated spurious emissions	0.009 MHz ÷ 26.5 GHz	6.0 dB	(1)
			26.5 GHz ÷ 66 GHz	8.0 dB	(1)
			66 GHz ÷ 220 GHz	10 dB	(1)
		Effective radiated power transmitter	10 kHz ÷ 26.5 GHz	6.0 dB	(1)
			26.5 GHz ÷ 66 GHz	8.0 dB	(1)
			66 GHz ÷ 220 GHz	10 dB	(1)

NOTES:

(1) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95 %

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
EMI Receiver	Rohde & Schwarz	ESW44	101620	2024-09	2025-09
Antenna Trilog 25MHz - 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025	2024-08	2027-08
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STPL 9148-123	2024-08	2027-08
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-05	2026-05
Preamplifier (1 ÷ 18 GHz)	Schwarzbeck	BBV9718C	00121	2025-01	2026-01
Broadband Bench Top Amplifier	Sage	STB-1834034030-KFKF-L1	18490-01	2024-07	2025-07
Controller	Maturo	FCU3.0	10041	NCR	NCR
Tilt antenna mast	Maturo	TAM4.0-E	10042	NCR	NCR
Turntable	Maturo	TT4.0-5T	2.527	NCR	NCR
Software turntable and mast	Maturo	mcApp	8.1.0.5410	NCR	NCR
3m Semi anechoic chamber	Comtest	SAC-3	1711-150	2024-09	2026-09
Cable set	Rosenberger and Huber + Suhner	RE01+RE02	1.654+1.655	2025-01	2026-01
Coaxial cable	Rosenberger	ST.ALO-05	1.669	2025-03	2026-03
Coaxial cable	Rosenberger	ST.ALO-02	1.650	2024-12	2025-12

Note: NCR - no calibration required, VOU - verify on use

Section 8. Testing data

8.1 FCC 15.209 and RSS-GEN section 8.9 Radiated emission limits; general requirements

8.1.1 Definitions and limits

FCC:

(f) In accordance with §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in §15.109 that are applicable to the incorporated digital device.

ISED:

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

Table 8.1-1: FCC §15.209 and RSS-Gen – Radiated emission limits

Frequency, MHz	Field strength of emissions		Measurement distance, m
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
0.009–0.490	2400/F	$67.6 - 20 \times \log_{10}(F)$	300
0.490–1.705	24000/F	$87.6 - 20 \times \log_{10}(F)$	30
1.705–30.0	30	29.5	30
30–88	100	40.0	3
88–216	150	43.5	3
216–960	200	46.0	3
above 960	500	54.0	3

Notes: In the emission table above, the tighter limit applies at the band edges.

For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test

Table 8.1-2: ISED restricted frequency bands

MHz	MHz	MHz	GHz
0.090–0.110	12.57675–12.57725	399.9–410	7.25–7.75
0.495–0.505	13.36–13.41	608–614	8.025–8.5
2.1735–2.1905	16.42–16.423	960–1427	9.0–9.2
3.020–3.026	16.69475–16.69525	1435–1626.5	9.3–9.5
4.125–4.128	16.80425–16.80475	1645.5–1646.5	10.6–12.7
4.17725–4.17775	25.5–25.67	1660–1710	13.25–13.4
4.20725–4.20775	37.5–38.25	1718.8–1722.2	14.47–14.5
5.677–5.683	73–74.6	2200–2300	15.35–16.2
6.215–6.218	74.8–75.2	2310–2390	17.7–21.4
6.26775–6.26825	108–138	2483.5–2500	22.01–23.12
6.31175–6.31225	149.9–150.05	2655–2900	23.6–24.0
8.291–8.294	156.52475–156.52525	3260–3267	31.2–31.8
8.362–8.366	156.7–156.9	3332–3339	36.43–36.5
8.37625–8.38675	162.0125–167.17	3345.8–3358	
8.41425–8.41475	167.72–173.2	3500–4400	
12.29–12.293	240–285	4500–5150	Above 38.6
12.51975–12.52025	322–335.4	5350–5460	

Note: Certain frequency bands listed in Table 8.1-2 and above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

Table 8.1-3: FCC restricted frequency bands

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	Above 38.6
13.36–13.41			

8.1.2 Test summary

Verdict	Pass
Tested by	P. Barbieri

8.1.3 Observations, settings and special notes

The spectrum was searched from 30 MHz to 40 GHz.

Different channel setting has been investigated as per provided by client's setup, only the worst-case is presented. Radiated measurements were performed at a distance of 3 m.

Receiver settings for radiated measurements within restricted bands 30 MHz to 1 GHz:

Resolution bandwidth:	120 kHz
Detector mode:	Quasi-Peak

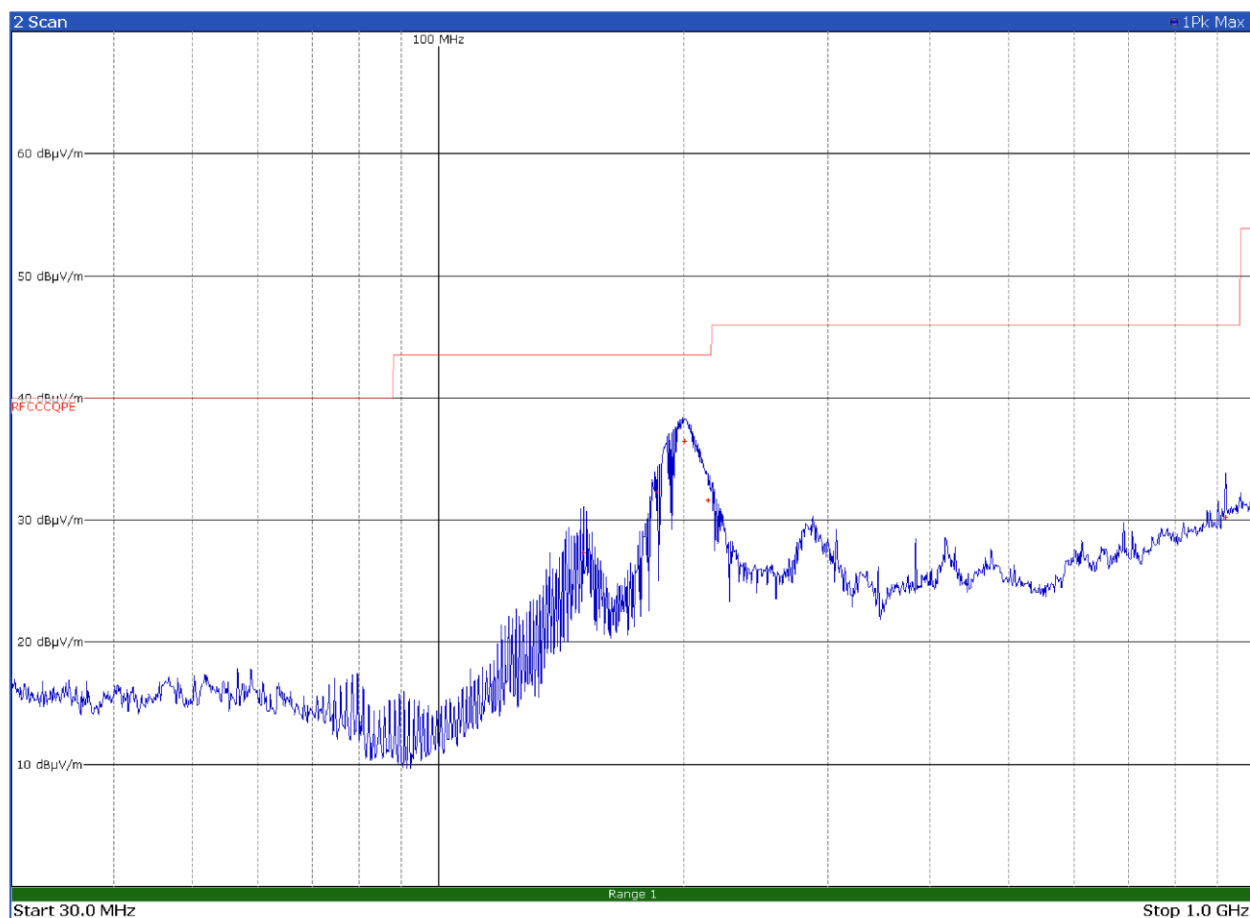
Receiver settings for peak radiated measurements within restricted bands above 1 GHz:

Resolution bandwidth:	1 MHz
Detector mode:	Peak

Receiver settings for average radiated measurements within restricted bands above 1 GHz:

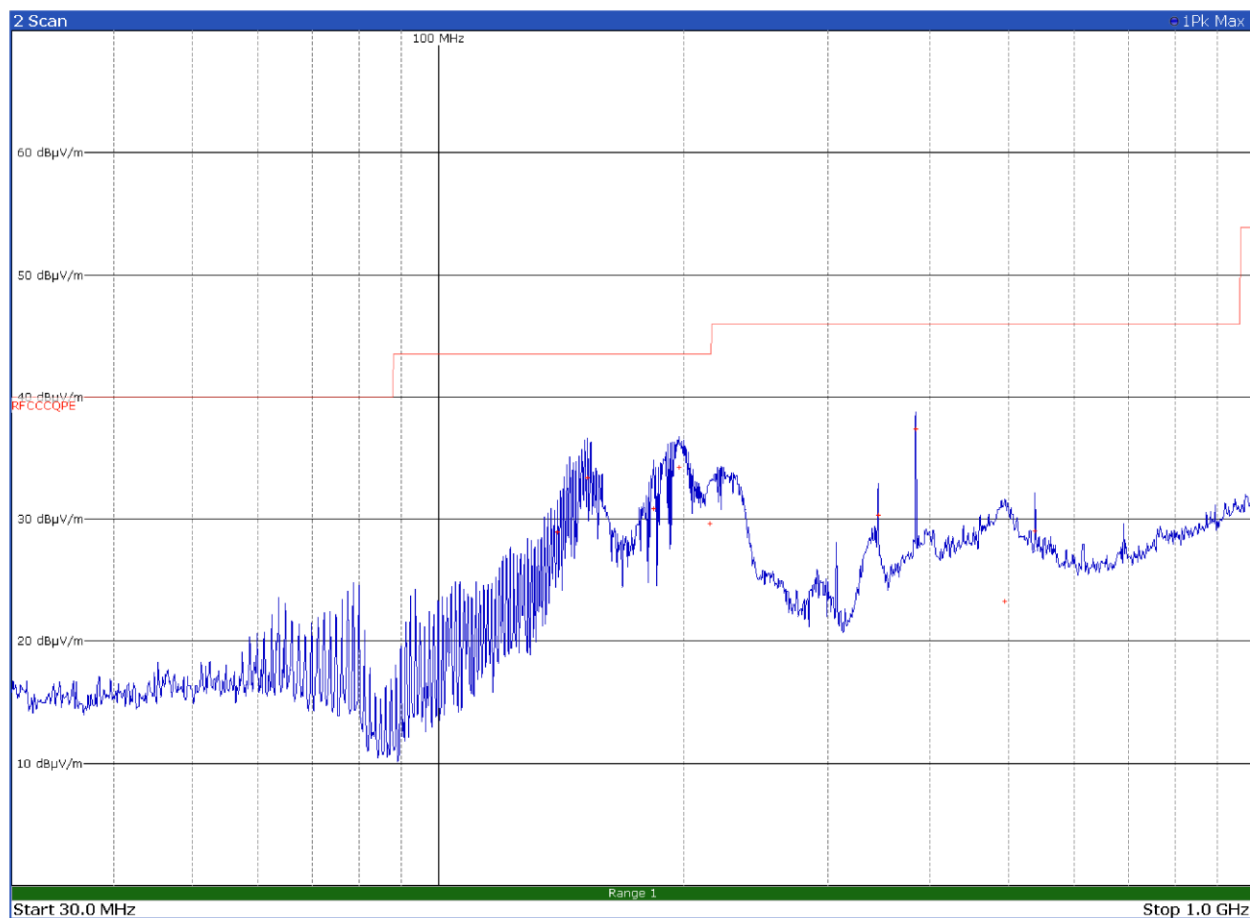
Resolution bandwidth:	1 MHz
Detector mode:	Average

8.1.4 Test data for UWB in 4 GHz channel and BT in hopping mode



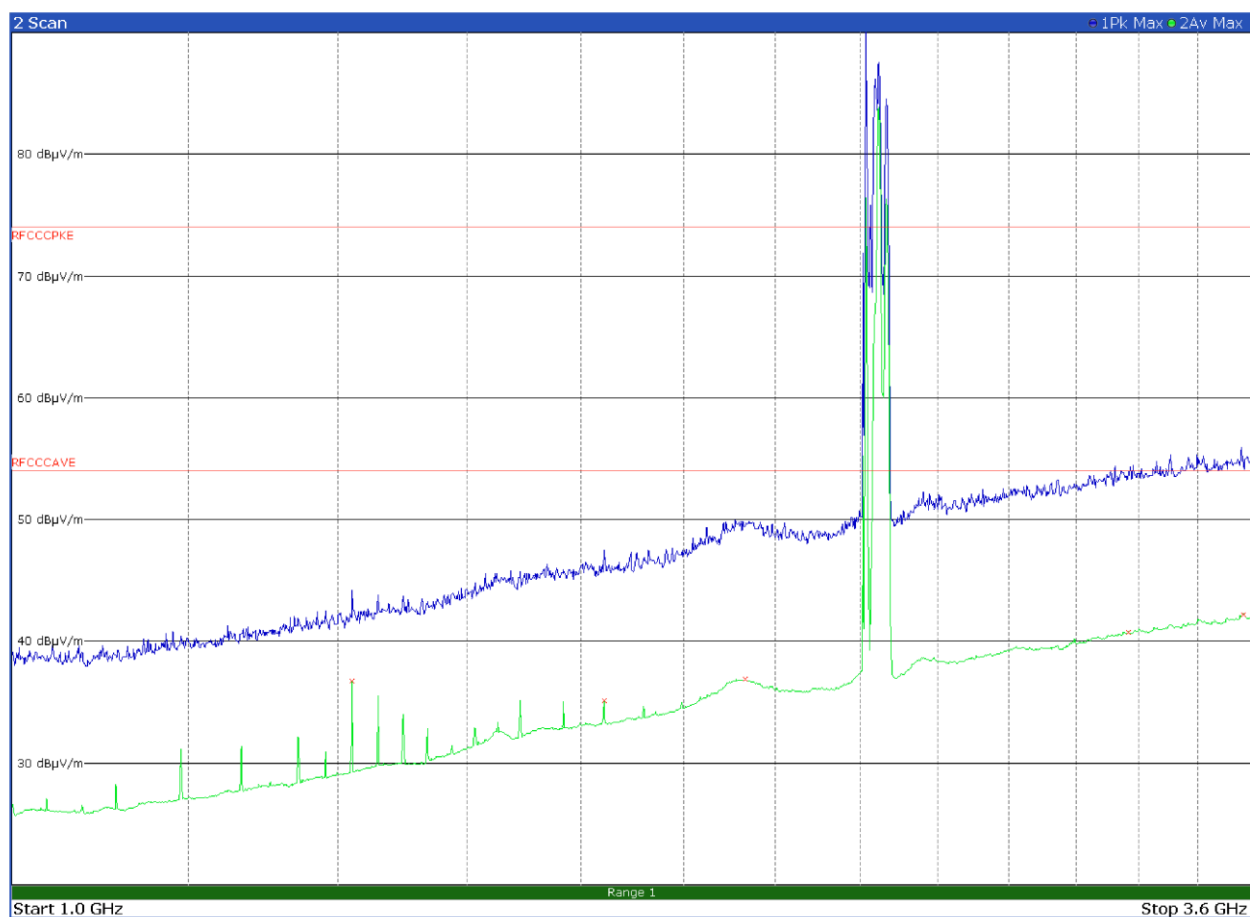
Antenna in horizontal polarization – No inter-modulation product founds

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
150.6000	27.3	43.5	-16.2	QP
185.3400	32.3	43.5	-11.2	QP
200.2500	36.5	43.5	-7.0	QP
213.9900	31.7	43.5	-11.8	QP
921.6000	30.3	46.0	-15.7	QP



Antenna in vertical polarization – No inter-modulation product founds

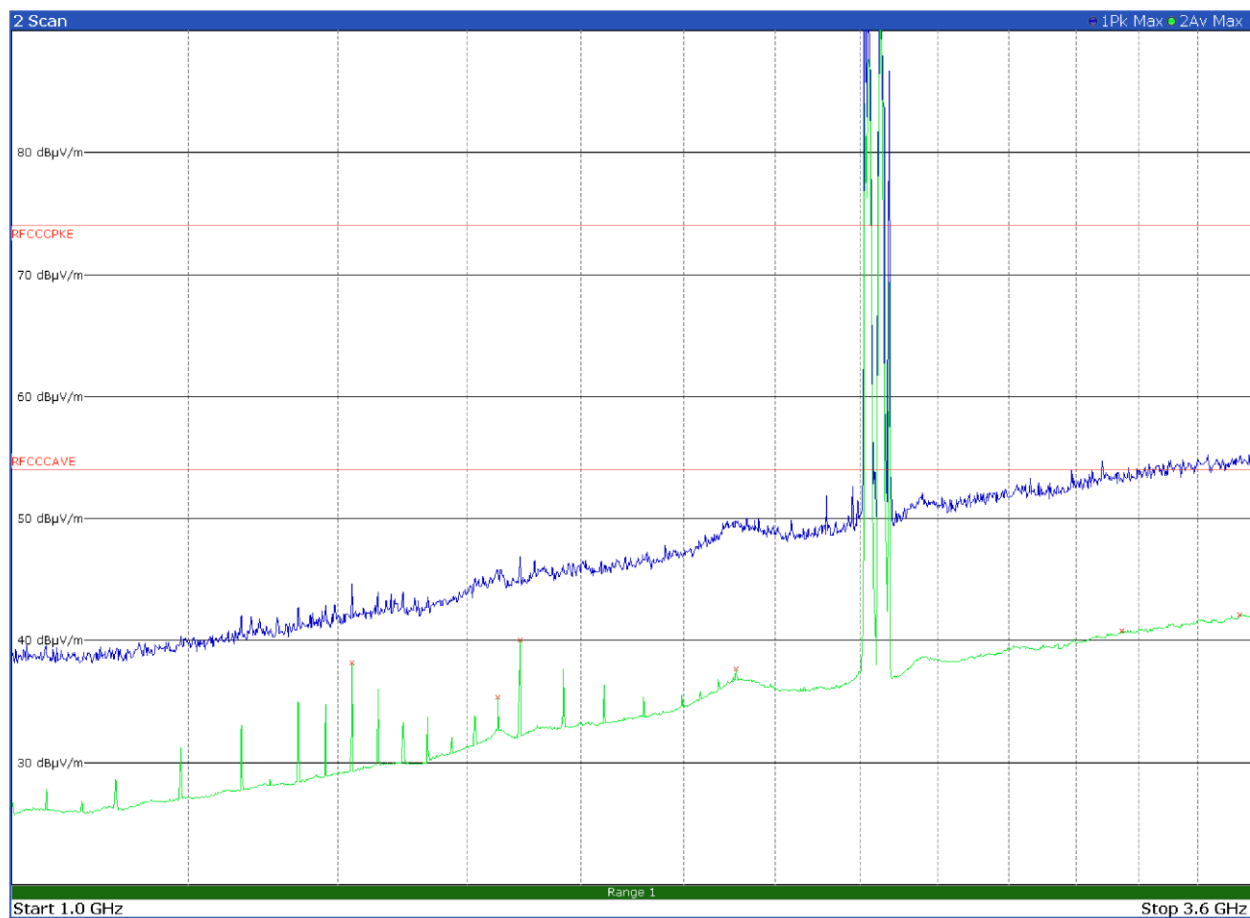
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
139.8900	29.0	43.5	-14.5	QP
152.3400	33.4	43.5	-10.1	QP
183.4800	30.9	43.5	-12.6	QP
197.2200	34.2	43.5	-9.3	QP
214.8900	29.7	43.5	-13.8	QP
345.6000	30.4	46.0	-15.6	QP
384.0000	37.5	46.0	-8.5	QP
494.5500	23.3	46.0	-22.7	QP
537.6000	29.1	46.0	-16.9	QP



Antenna in horizontal polarization – No inter-modulation product founds

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1420.7500	36.8	54.0	-17.2	Av
1843.2500	35.2	54.0	-18.8	Av
2132.0000	37.0	54.0	-17.0	Av
3166.2500	40.8	54.0	-13.2	Av
3564.7500	42.3	54.0	-11.7	Av

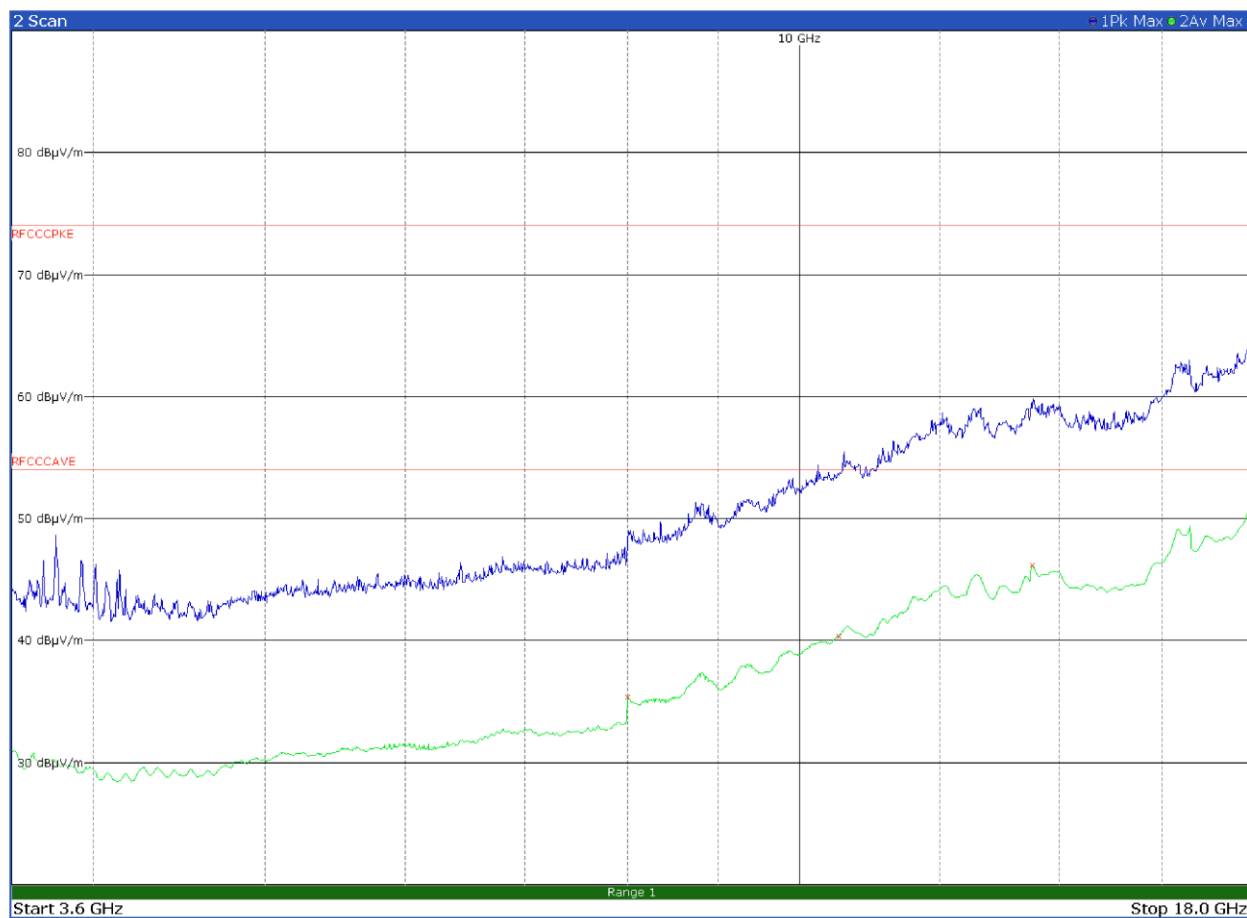
Limit exceeded by BT carrier



Antenna in vertical polarization – No inter-modulation product founds

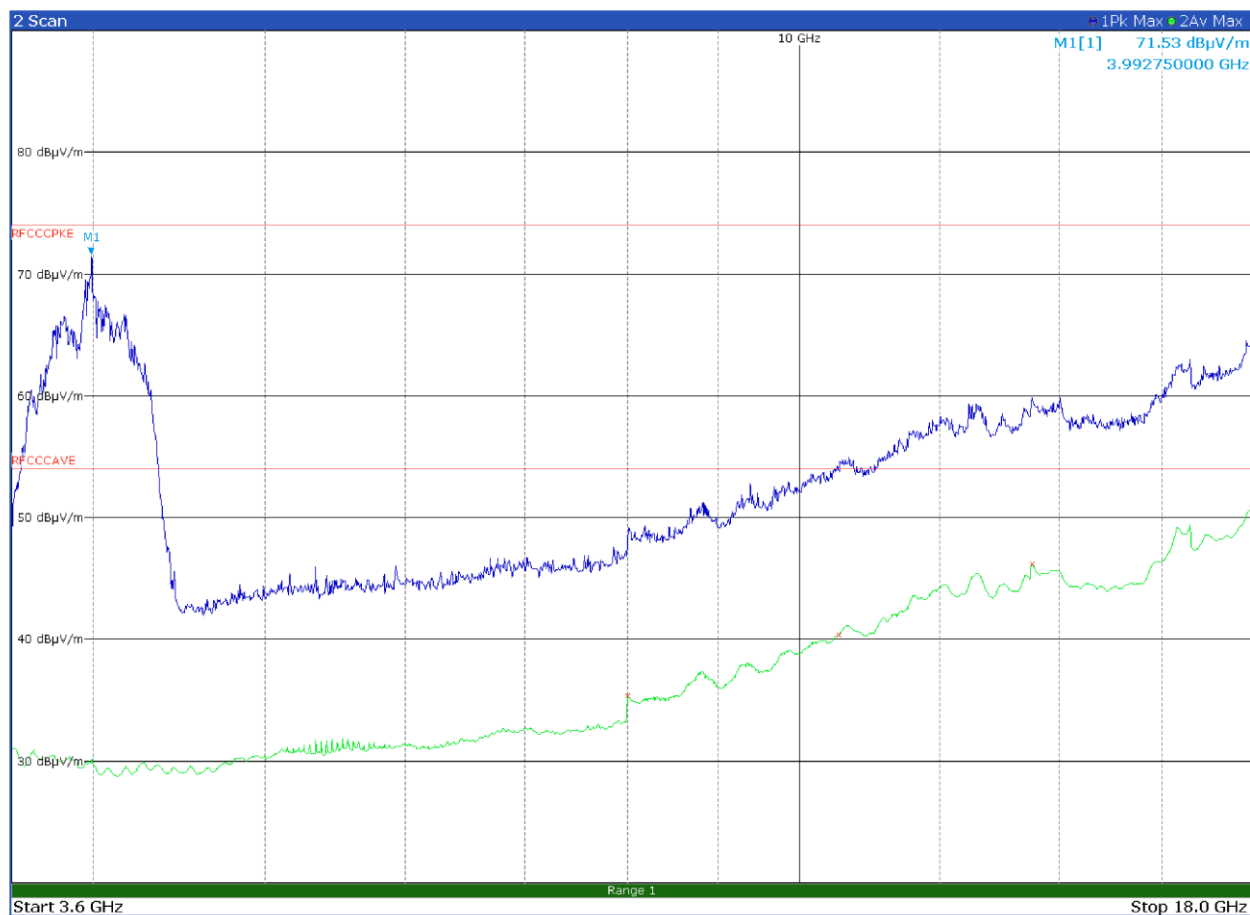
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1420.7500	38.2	54.0	-15.8	Av
1651.2500	35.4	54.0	-18.6	Av
1689.5000	40.1	54.0	-13.9	Av
2112.0000	37.7	54.0	-16.3	Av
3143.7500	40.9	54.0	-13.1	Av
3551.7500	42.2	54.0	-11.8	Av

Limit exceeded by BT carrier



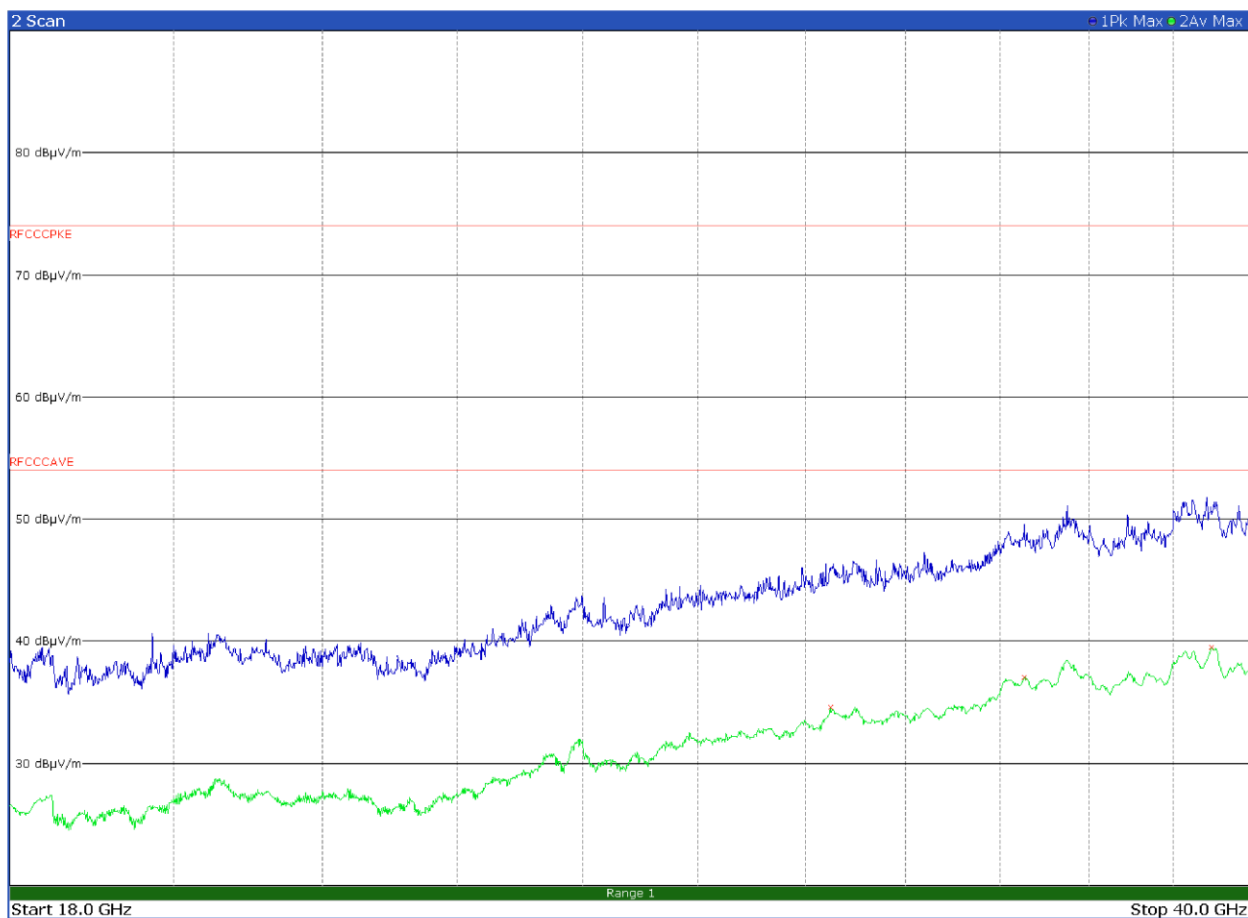
Antenna in horizontal polarization – No inter-modulation product founds

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
8000.2500	35.4	54.0	-18.6	Av
10520.2500	40.4	54.0	-13.6	Av
13519.5000	46.2	54.0	-7.8	Av
17980.0000	50.8	54.0	-3.2	Av



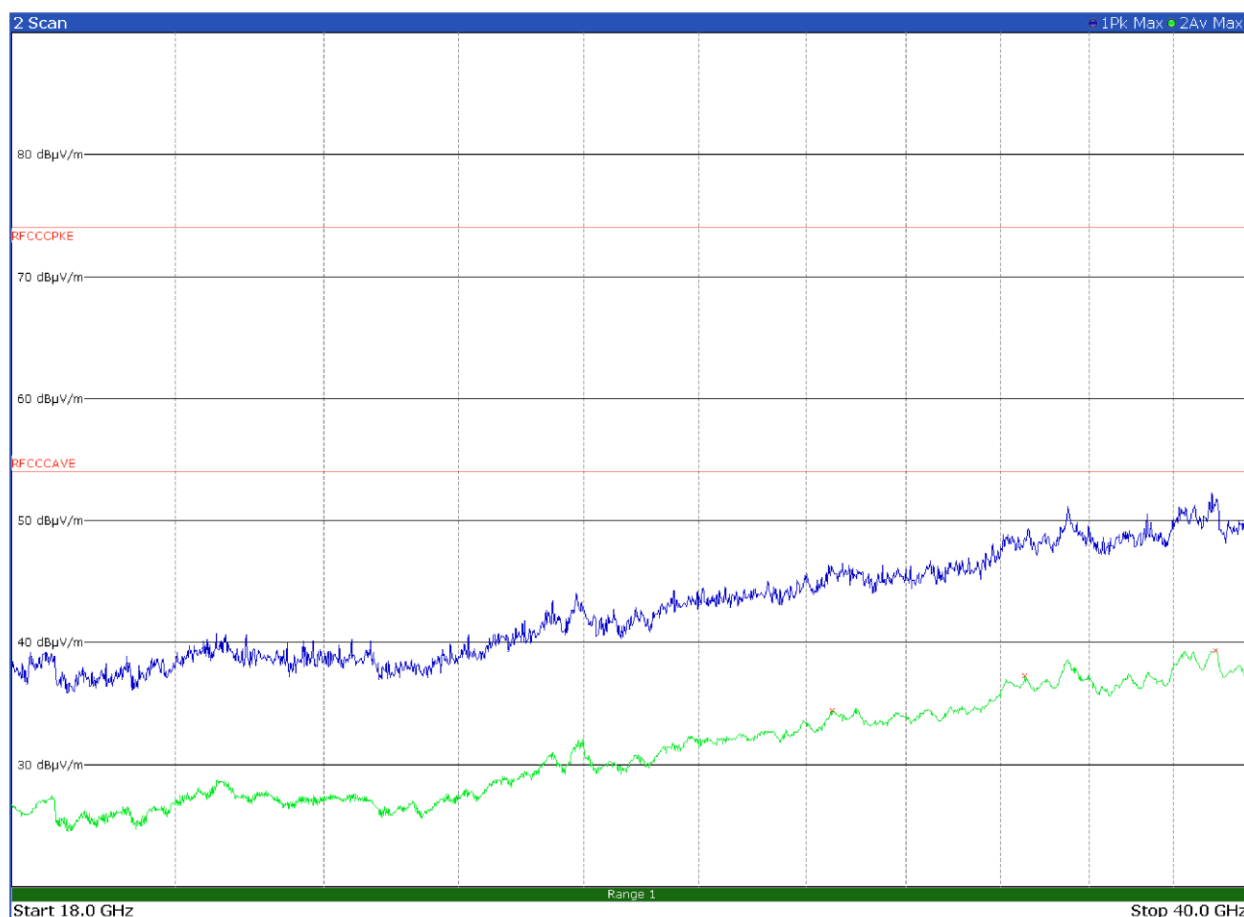
Antenna in vertical polarization – No inter-modulation product founds

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
8001.2500	35.4	54.0	-18.6	Av
10521.0000	40.4	54.0	-13.6	Av
13520.0000	46.2	54.0	-7.8	Av
17980.0000	50.8	54.0	-3.2	Av



Antenna in horizontal polarization – No inter-modulation product founds

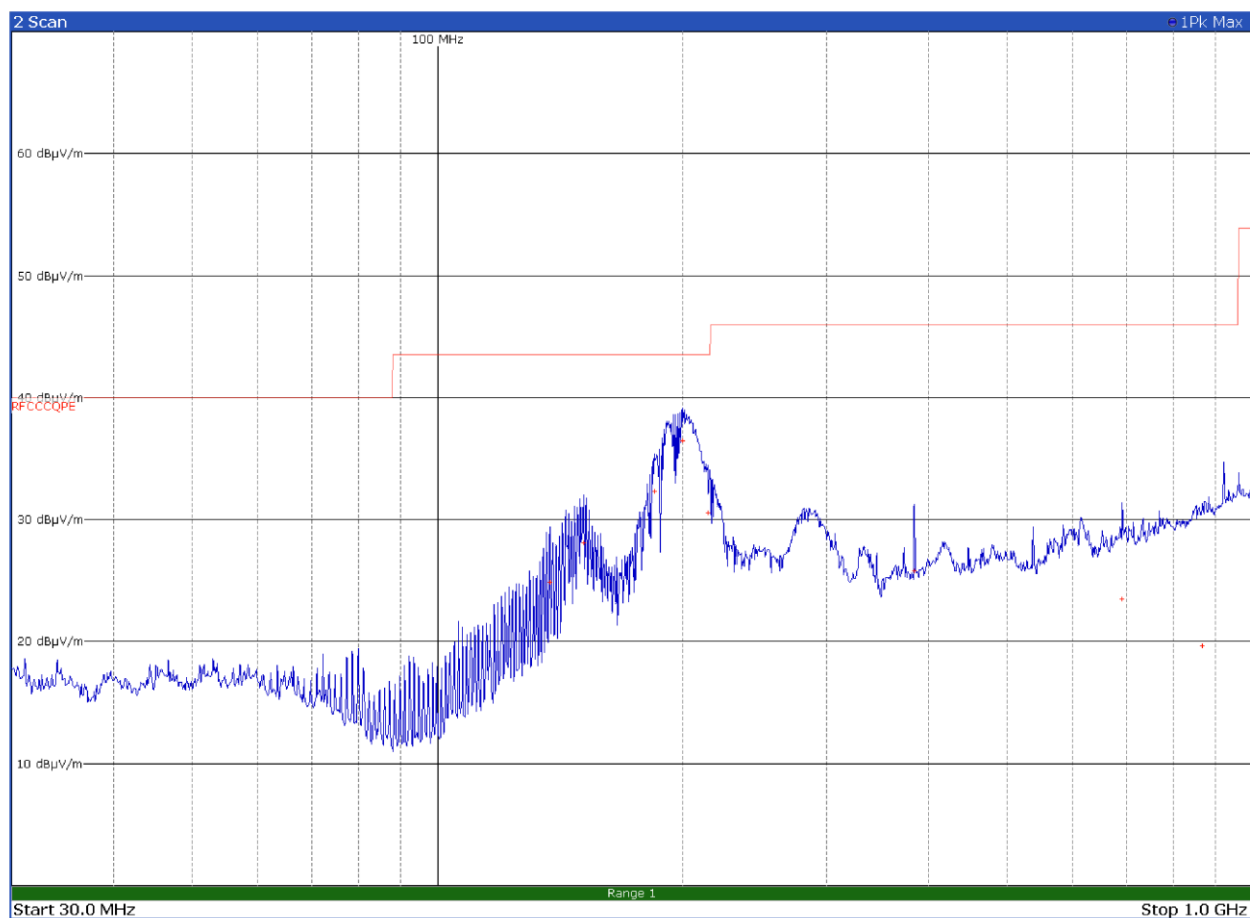
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
30499.7500	34.6	54.0	-19.4	Av
34550.2500	37.1	54.0	-16.9	Av
38959.5000	39.6	54.0	-14.4	Av



Antenna in vertical polarization – No inter-modulation product founds

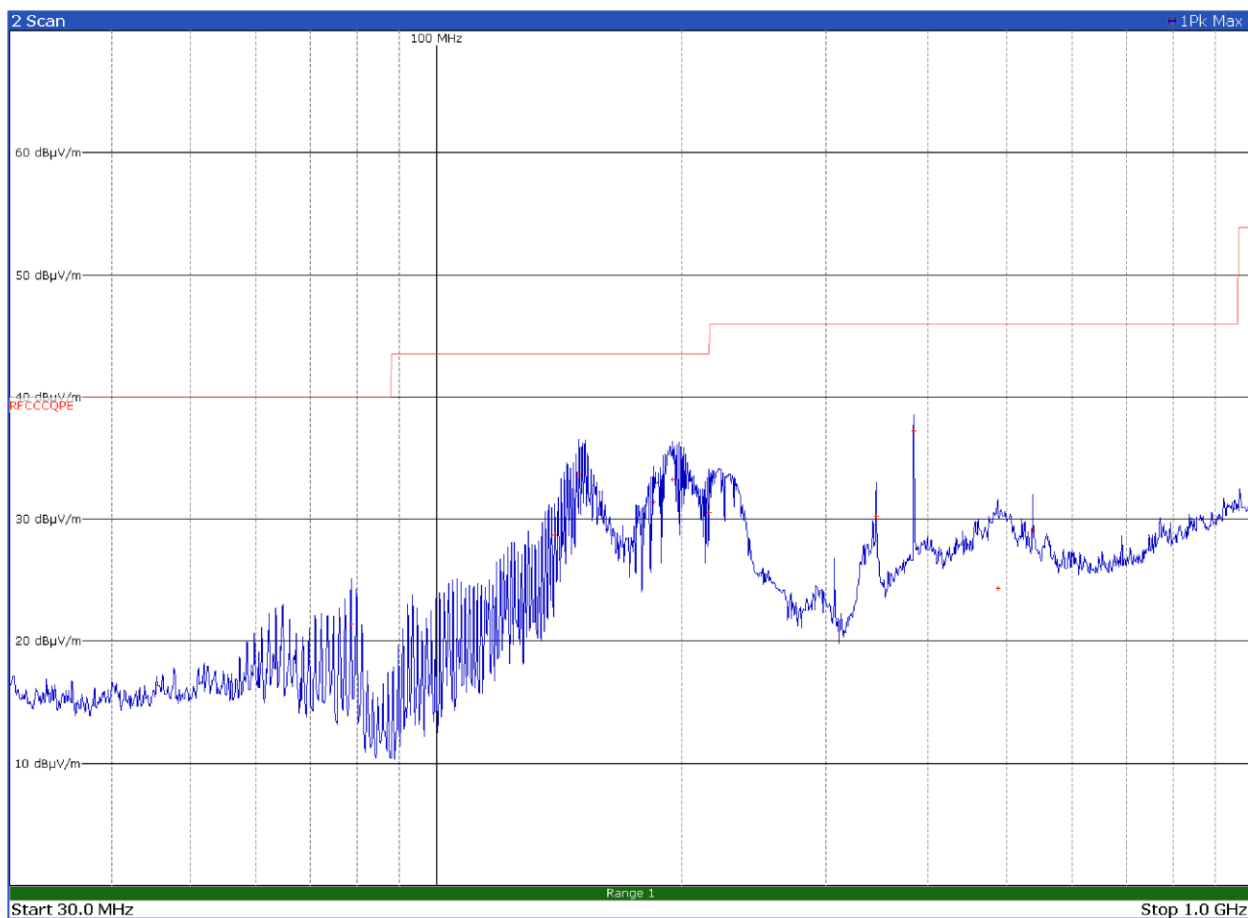
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
30524.2500	34.4	54.0	-19.6	Av
34550.2500	37.3	54.0	-16.7	Av
39046.7500	39.4	54.0	-14.6	Av

8.1.5 Test data for UWB in 6.5 GHz channel and BT in hopping mode



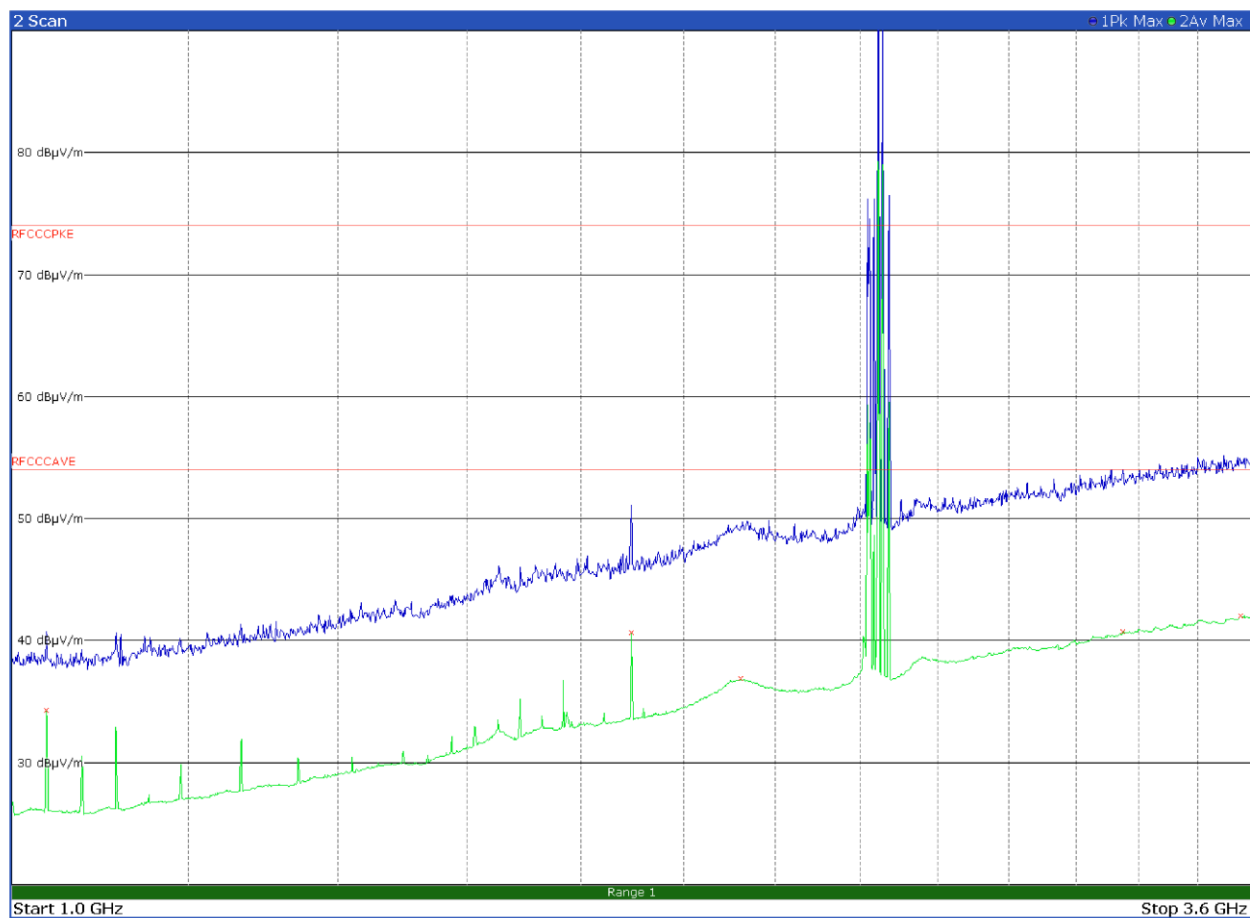
Antenna in horizontal polarization – No inter-modulation product founds

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
137.1600	24.9	43.5	-18.6	QP
150.8400	28.2	43.5	-15.3	QP
184.4100	32.4	43.5	-11.1	QP
199.5000	36.5	43.5	-7.0	QP
214.5600	30.6	43.5	-12.9	QP
384.0000	25.8	46.0	-20.2	QP
691.2000	23.5	46.0	-22.5	QP
867.2700	19.7	46.0	-26.3	QP



Antenna in vertical polarization – No inter-modulation product founds

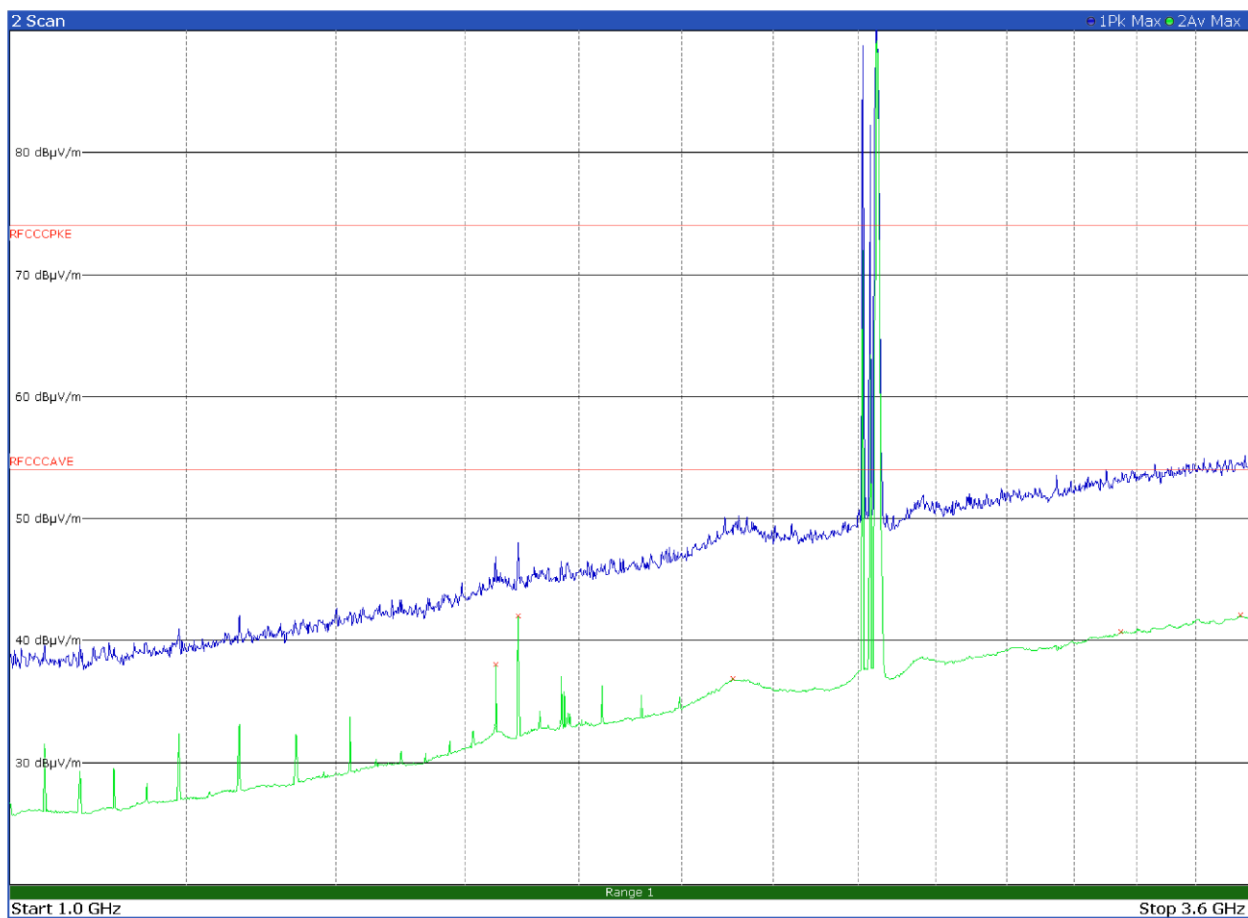
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
78.5700	21.4	40.0	-18.6	QP
139.5600	28.8	43.5	-14.7	QP
149.5200	33.7	43.5	-9.8	QP
184.4100	31.4	43.5	-12.1	QP
194.4300	33.3	43.5	-10.2	QP
215.6700	30.6	43.5	-12.9	QP
345.6000	30.3	46.0	-15.7	QP
384.0000	37.3	46.0	-8.7	QP
487.1700	24.4	46.0	-21.6	QP
537.6000	29.2	46.0	-16.8	QP



Antenna in horizontal polarization – No inter-modulation product founds

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1036.7500	34.3	54.0	-19.7	Av
1895.5000	40.7	54.0	-13.3	Av
2122.7500	36.9	54.0	-17.1	Av
3149.7500	40.8	54.0	-13.2	Av
3555.5000	42.1	54.0	-11.9	Av

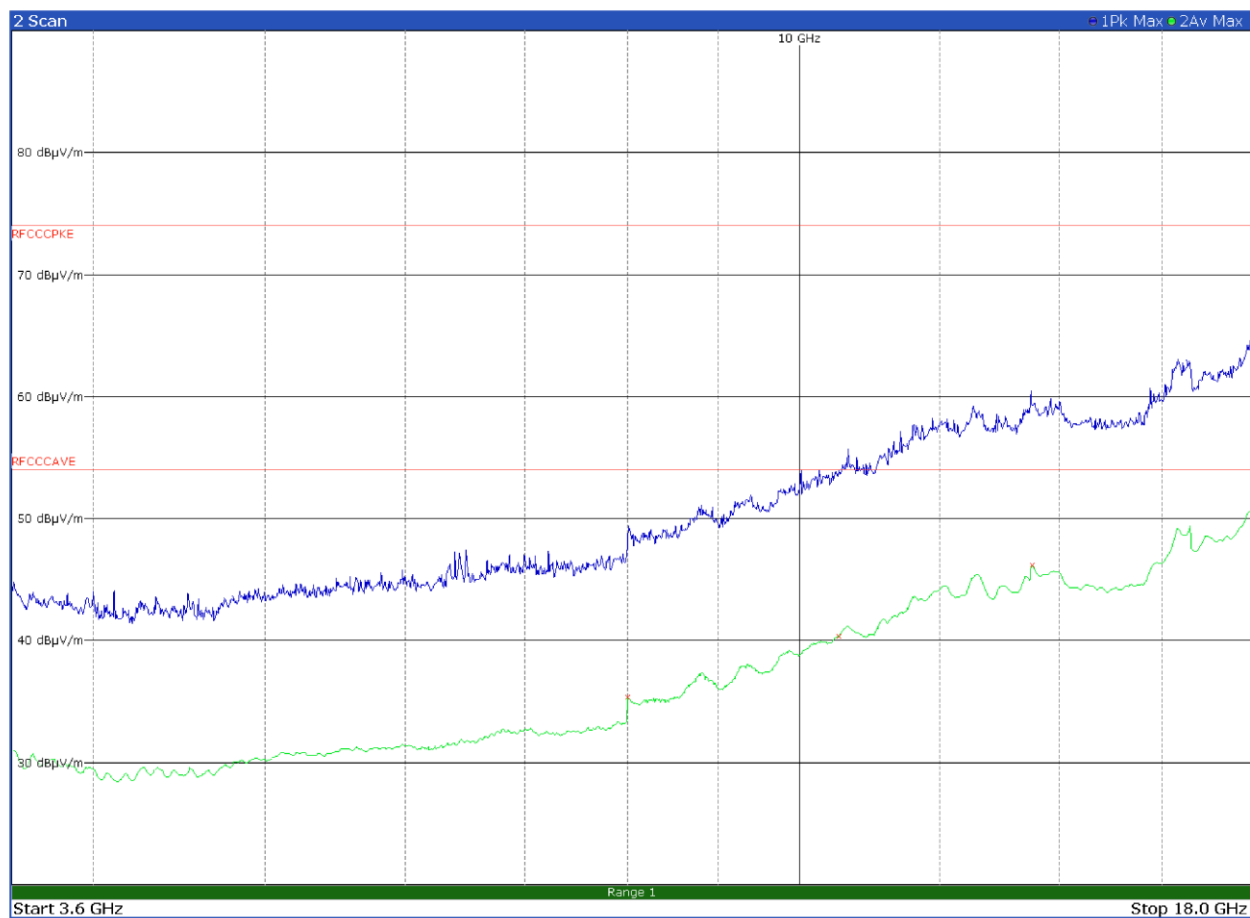
Limit exceeded by the BT carrier



Antenna in vertical polarization – No inter-modulation product founds

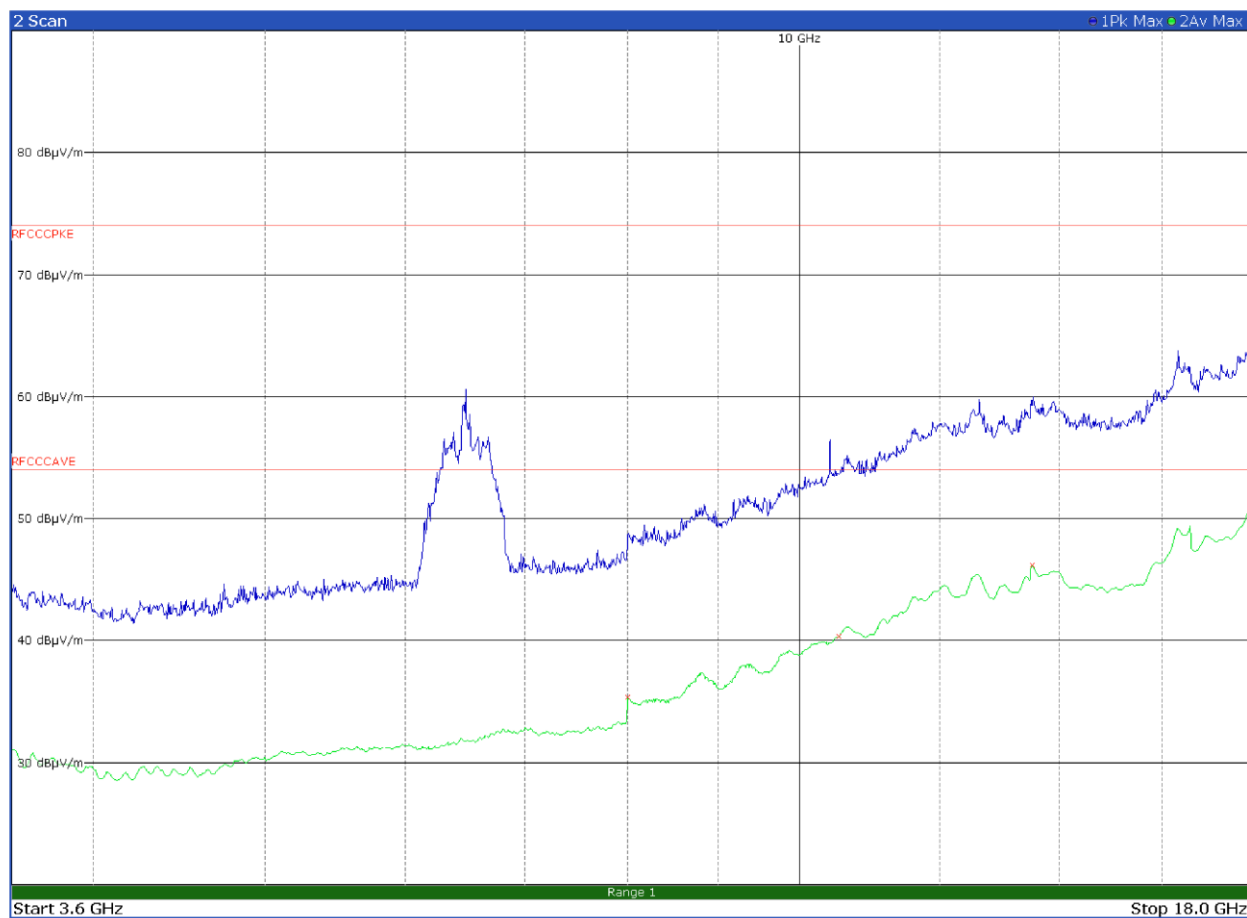
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1651.2500	38.1	54.0	-15.9	Av
1689.5000	42.1	54.0	-11.9	Av
2109.2500	36.9	54.0	-17.1	Av
3147.7500	40.8	54.0	-13.2	Av
3561.5000	42.1	54.0	-11.9	Av

Limit exceeded by the BT carrier



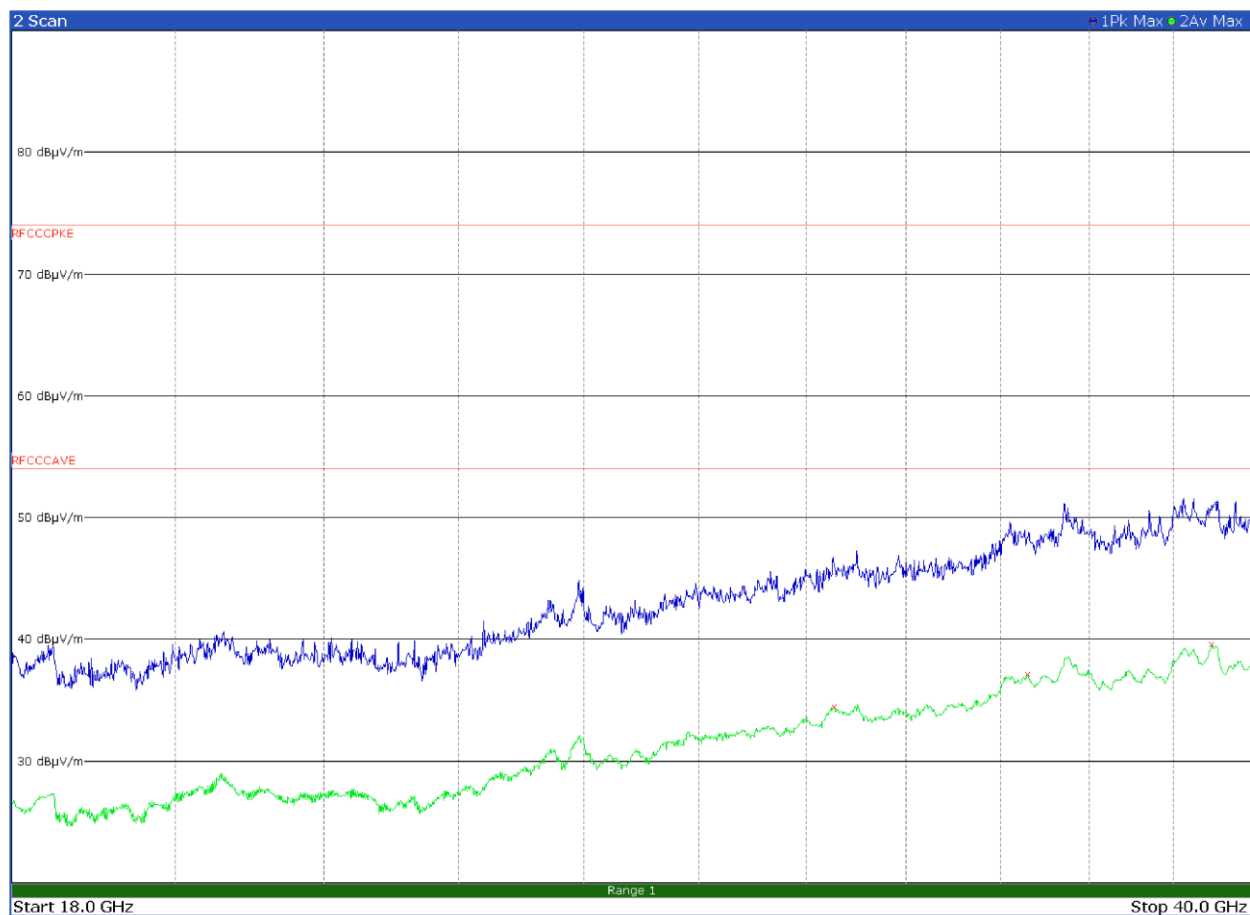
Antenna in horizontal polarization – No inter-modulation product founds

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
8000.7500	35.4	54.0	-18.6	Av
10520.2500	40.4	54.0	-13.6	Av
13520.0000	46.2	54.0	-7.8	Av
18000.0000	50.8	54.0	-3.2	Av



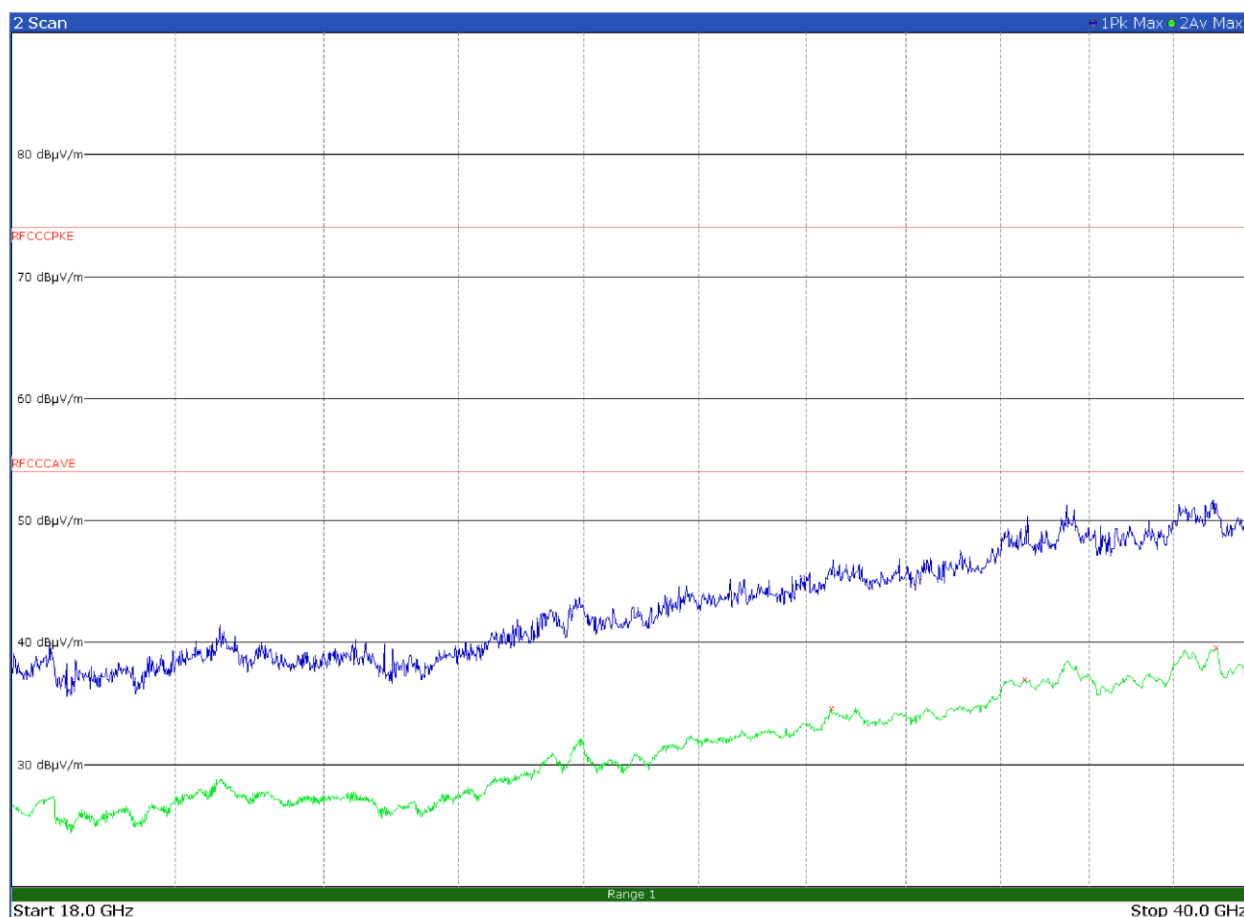
Antenna in vertical polarization – No inter-modulation product founds

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
8001.0000	35.4	54.0	-18.6	Av
10520.2500	40.4	54.0	-13.6	Av
13520.0000	46.2	54.0	-7.8	Av
17980.0000	50.9	54.0	-3.1	Av



Antenna in horizontal polarization – No inter-modulation product founds

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
30558.7500	34.5	54.0	-19.5	Av
34611.2500	37.1	54.0	-16.9	Av
38958.2500	39.6	54.0	-14.4	Av

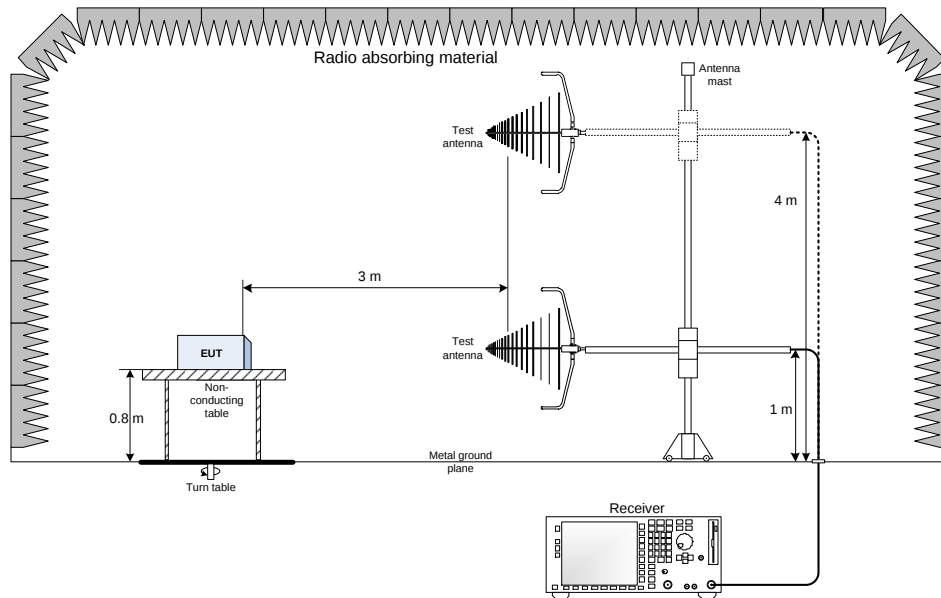


Antenna in vertical polarization – No inter-modulation product founds

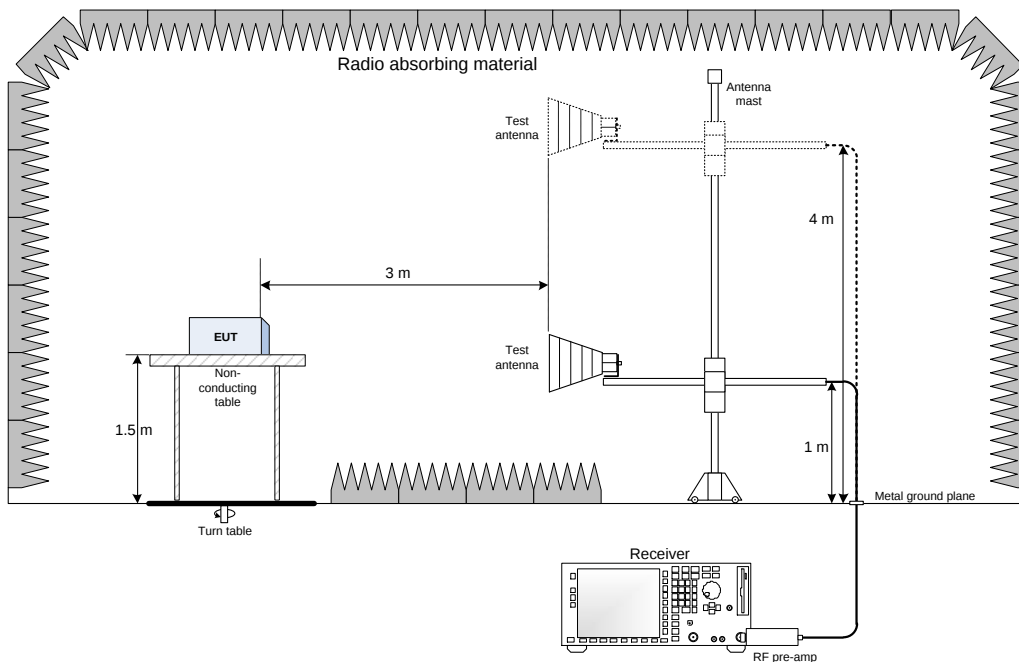
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
30499.7500	34.6	54.0	-19.4	Av
34550.2500	37.0	54.0	-17.0	Av
39076.5000	39.6	54.0	-14.4	Av

Section 9. Block diagrams of test set-ups

9.1 Radiated emissions set-up for frequencies below 1 GHz



9.2 Radiated emissions set-up for frequencies above 1 GHz



Section 10. Photos

10.1 Photos of the test set-up

See "Annex A" exhibit.

10.2 Photos of the EUT

See "Annex A" exhibit.

End of report