

Test report No: 6256312.55

TEST REPORT

Radio Spectrum Matters (RF)

Identification of item tested	Laser receiver
Trademark	HILTI
Model and /or type reference	PMA 50 01
Features	Battery: 3 Vdc
FCC ID	SDL-PMA50
ISED Number	5228A-PMA50
Applicant's name / address	Hilti Corporation. Feldkircherstrasse 100, 9494 Schaan ,Liechtenstein
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2020 ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 RSS-Gen Issue 5 RSS-247 Issue 4
Verdict Summary	IN COMPLIANCE
Prepared by (name / position & signature)	Kaiyuan DAI Test engineer 
Approved by (name / position & signature)	Wency YANG Manager 
Date of issue	2026-06-16
Report template No	TRF_Part15C_247_RF03 V1.2

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the test.
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5. The information provided by the customer in this report may affect the validity of the results, the test lab is not responsible for it.
6. This report will not be used for social proof function in China market.

UNCERTAINTY

For all measurements where guidance for the calculation of the instrumentation uncertainty of a measurement is specified in the product standard, the measurement instrumentation uncertainty has been calculated and applied in accordance with these standards.

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. Refer to the Annex 1 for further information.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result, unless the specification, standard or customer have special requirements.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.			
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.			
Decimal separator used in this report	☒	Comma (,)	☐ Point (.)

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report nr.	Date	Description
6256312.55	2026-06-16	First release.

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

The test results relate only to the samples tested.

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1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Description of the item	Laser receiver
Model / Type number	PMA 50 01
Trademark.....	HILTI
FCC ID	SDL-PMA50
ISED Number	5228A-PMA50
Test Sample Number	6256312-3
Manufacturer.....	Hilti Corporation. Feldkircherstrasse 100, 9494 Schaan ,Liechtenstein
Factory 1	HUADA VIETNAM CO.,LTD 1st floor-Factory 2 rented from Greatstar Industrial Viet Nam CO.,LTD , Lot CN8, Nam Cau Kien Industrial Park, Thien Huong ward, Hai Phong City, Vietnam
Factory 2	CHANGZHOU HUADA KEJIE OPTO-ELECTRO INSTRUMENT CO.,LTD No.16 Meihua Road, Zhonglou Economic Development District, 213023 Changzhou Jiangsu China

Mode of Operation	Bluetooth BLE
Operating frequency range(s) – Tx.:	2402~2480 MHz
Operating frequency range(s) – Rx :	2402~2480 MHz
Type of Modulation	GFSK
PHYs	☒ LE 1M ☒ LE 2M ☐ LE Coded S=2/8
Data Rate	☒ 1 Mbps ☒ 2 Mbps ☐ 500/125 Kbps
Antenna type.....	FPC Antenna
Antenna gain.....	5.46 dBi
Number of channel	40
Operating Temperature Range.....	-10~40 °C

Note: Antenna information was provided from applicant.

Rated power supply	Voltage and Frequency	Reference poles				
		L1	L2	L3	N	PE
	☐ AC:	☐	☐	☐	☐	☐
	☐ DC:					
	☒ Battery: 3 Vdc.					
Mounting position.....	☒ Table top equipment					
	☐ Wall/Ceiling mounted equipment					
	☐ Floor standing equipment					
	☐ Hand-held equipment					
	☐ Other:					

Intended use of the Equipment Under Test (EUT)
The product is laser receiver which supports BLE function.



1.2 **Test date**

Test Location	DEKRA Testing and Certification (Shanghai) Ltd. No. 1050, Xingxian Road, Jiading District, Shanghai, China.
Date of receipt of test item	2026-01-19
Date (s) of performance of tests	2026-02-02~2026-05-21

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

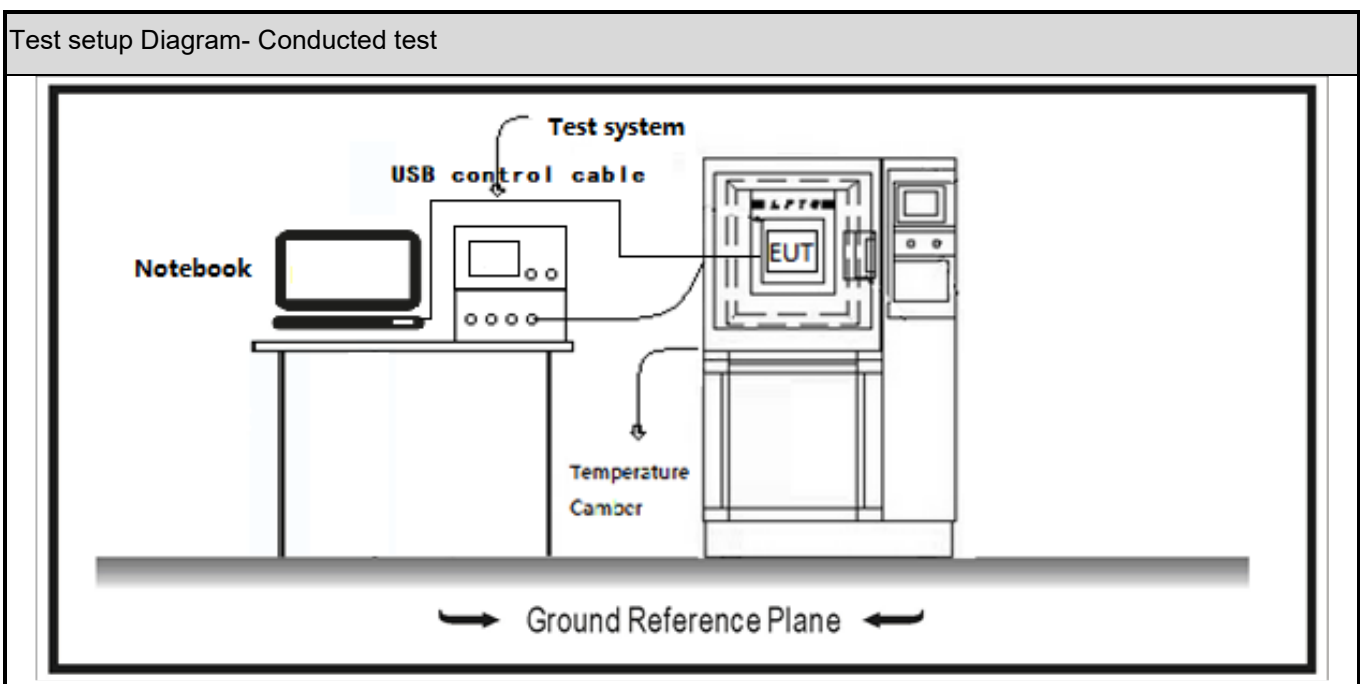
Operating mode	Operating mode description	Used for methos	
		Conducted	Radiated
1	Transmitting	☒	☒
2	---	☐	☐
Supplemental information: ---			

2.2 Support / Auxiliary equipment / unit / software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

Auxiliary equipment / unit / software	Type / Version	Serial number	Manufacturer	Supplied by
DOGO_VP_2.1.8	V2.1.8	N/A	N/A	Applicant
Laptop	Latitude 3430	7XB4DS3	DELL	DEKRA
Laptop	Probook 440 G9	5CD242FLCF	HP	DEKRA
Supplemental information: ---				

2.3 Test Configuration / Block diagram used for tests



3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2022	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Corrigendum 1	2023	
Amendment 1	2024	
Errata to Amendment 1	2024	
RSS-Gen Issue 5	2018	General Requirements for Compliance of Radio Apparatus
Amendment 1	2019	
Amendment 2	2021	
RSS-247 Issue 4	2025	Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

3.3 Overview of results

FCC measurement			
Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	FCC 15.207	N/A	See 1.)
Emissions in restricted frequency bands	FCC 15.247(d), 15.209, 15.205	PASS	---
Duty cycle	ANSI C63.10:2020	PASS	---
Emissions in non-restricted frequency bands	FCC 15.247(d)	PASS	---
Radiated Emission Band Edge	FCC 15.247(d), 15.209, 15.205	PASS	---
Fundamental emission output power	FCC 15.247(b)(3)	PASS	---
DTS Bandwidth	FCC 15.247(a)(2)	PASS	---
Power Spectral Density	FCC 15.247(e)	PASS	---
Antenna Requirement	FCC 15.203	PASS	---
<u>Supplementary information:</u>			
1.) EUT is battery-powered .			

RSS measurement			
Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	RSS-Gen Issue 5 Section 8.8	N/A	See 1.)
Emissions in restricted frequency bands	RSS-Gen Issue 5 Section 8.9 & 8.10	PASS	---
Duty cycle	ANSI C63.10:2020	PASS	---
Emissions in non-restricted frequency bands	RSS-247 Issue 3 Section 5.5 RSS-247 Issue 4 Section 6.6	PASS	---
Radiated Emission Band Edge	RSS-Gen Issue 5 Section 8.9 & 8.10	PASS	---
Fundamental emission output power	RSS-247 Issue 3 Section 5.4(d) RSS-247 Issue 4 Section 6.3.2	PASS	---
DTS Bandwidth & Occupied Bandwidth	RSS-Gen Issue 5 Section 6.7 RSS-247 Issue 3 Section 5.2(a) RSS-247 Issue 4 Section 6.3.1(a)	PASS	---
Power Spectral Density	RSS-247 Issue 3 Section 5.2(b) RSS-247 Issue 4 Section 6.3.1(b)	PASS	---
Antenna Requirement	RSS-Gen Issue 5 Section 6.8	PASS	---
<u>Supplementary information:</u>			
1) EUT is battery-powered.			

3.4 Test Facility

FCC Designation Number	:	CN1358
ISED CAB identifier Number	:	CN0155

3.5 Measurement procedure

The EUT was controlled by a RS232 transfer USB board which provided by applicant which connected to laptop. After connected, run the software “DOGO_VP_2.1.8” supplied by manufacturer to control the EUT work in required test mode as below table.

Mode	Modulation	Data Rate	Channel Number	Frequency (MHz)	Power Setting
BLE	GFSK	1Mbps	00	2402	Software default
			19	2440	Software default
			39	2480	Software default
BLE	GFSK	2Mbps	00	2402	Software default
			19	2440	Software default
			39	2480	Software default

4 TEST RESULTS

4.1	Emissions in restricted frequency bands	VERDICT: PASS
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Limit

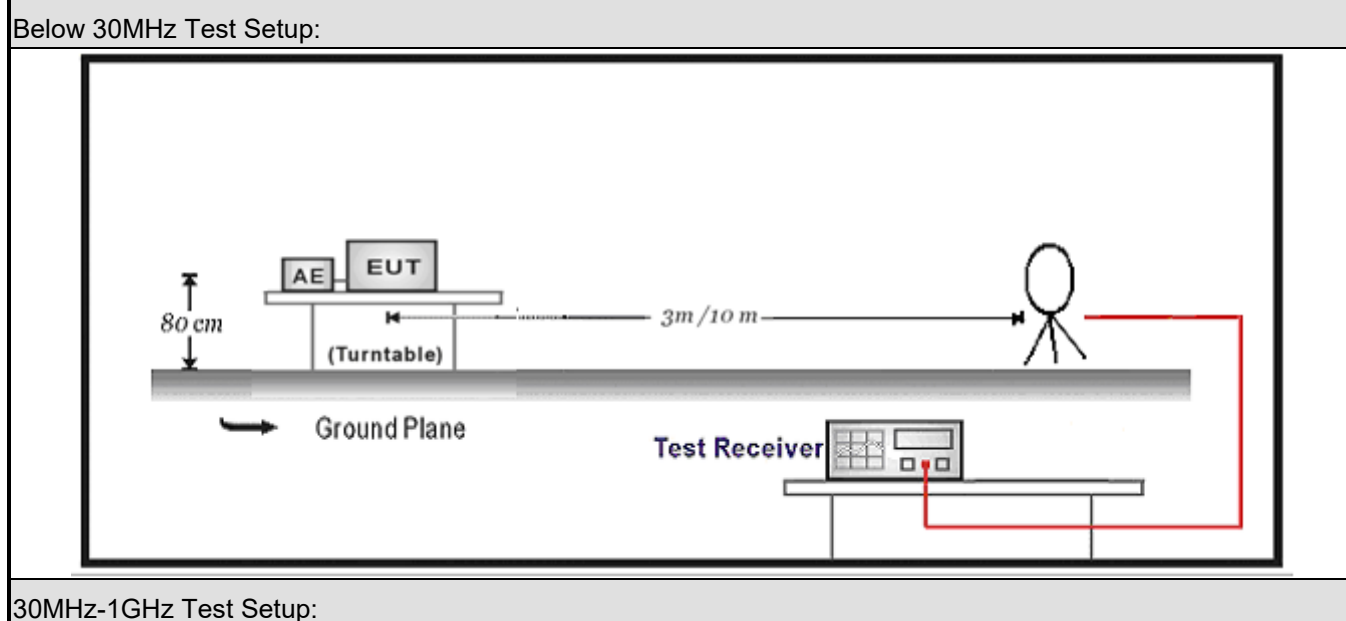
Standard		FCC Part 15 Subpart C Paragraph 15.247(d), 15.205, 15.209 & RSS-Gen Issue 5 Section 8.9 & 8.10	
Restricted Bands of operation for FCC			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 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
8.81425 - 8.81475	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	--	--	--
Restricted Bands of operation for ISED			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	--
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	--
8.41425 - 8.41475	240 - 285	5350 - 5460	--
12.29 - 12.293	322 - 335.4	7250 - 7750	--
12.51975 - 12.52025	399.9 - 410	8025 - 8500	--
12.57675 - 12.57725	608 - 614	--	--

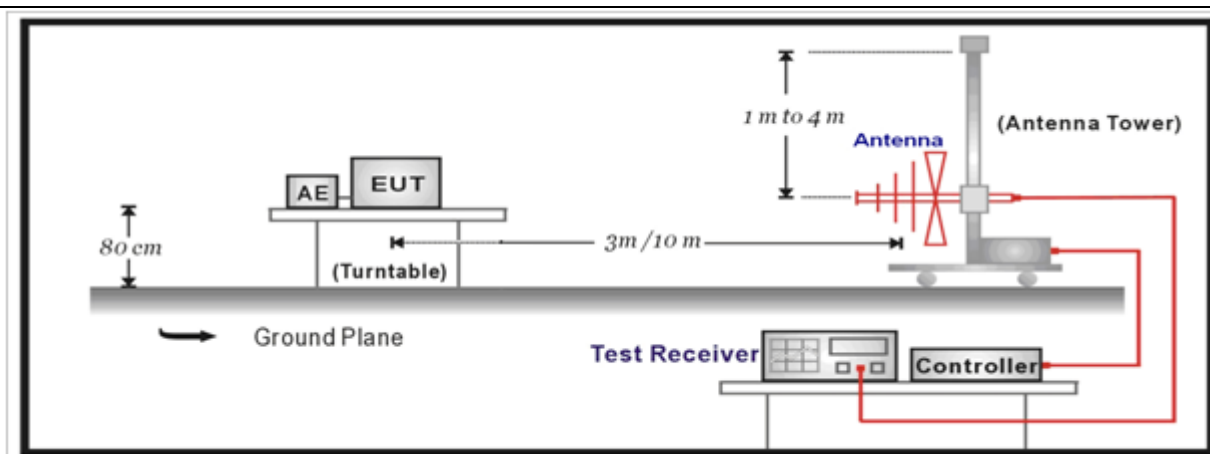
Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 - 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

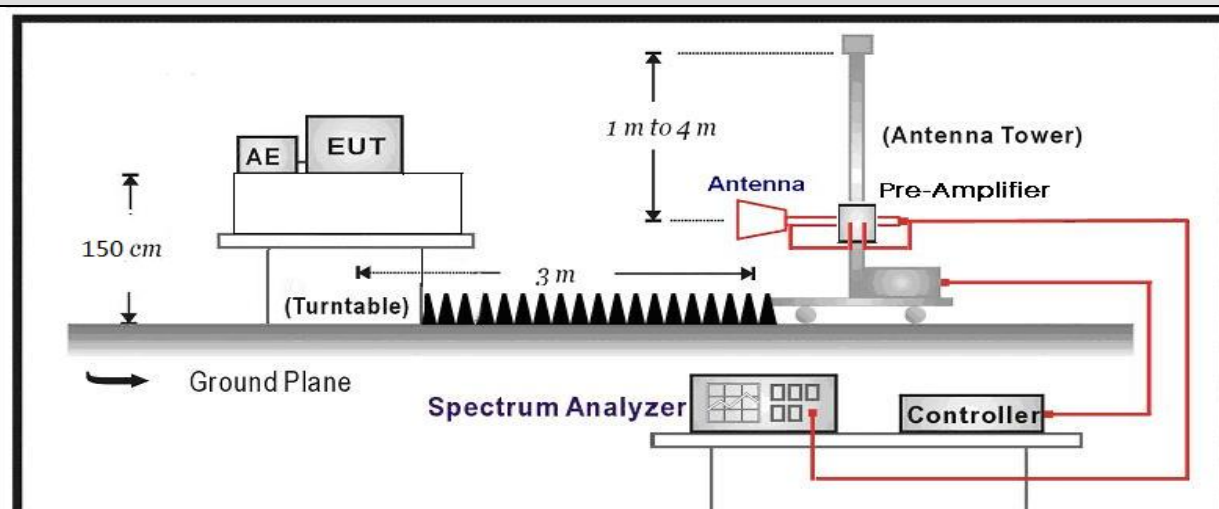
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration





Above 1GHz Test Setup:



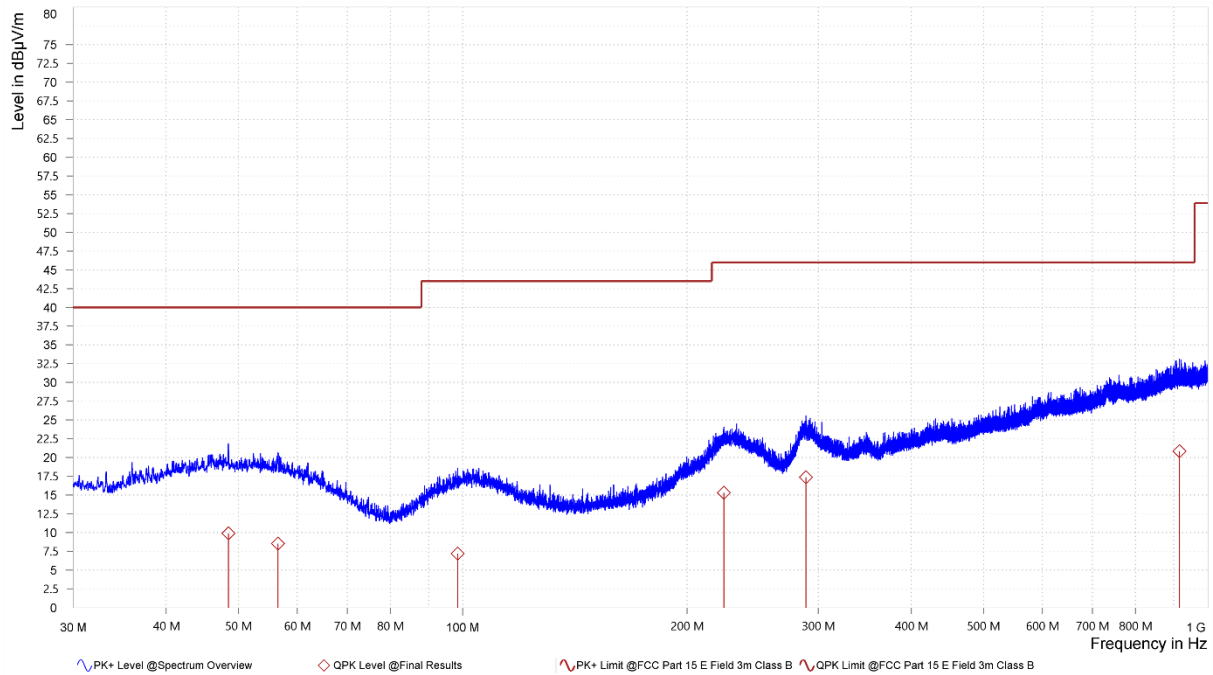
Performed measurements

Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	1. The test frequency range, 9 kHz~30 MHz, 18 GHz~26 GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report. 2. The EUT is working in the Normal link mode below 1 GHz. As the radiated emission was performed, so conducted emission was not tested.	

Results

Emissions in restricted frequency bands

30MHz – 1GHz, Normal Mode,
Antenna polarization-Horizontal

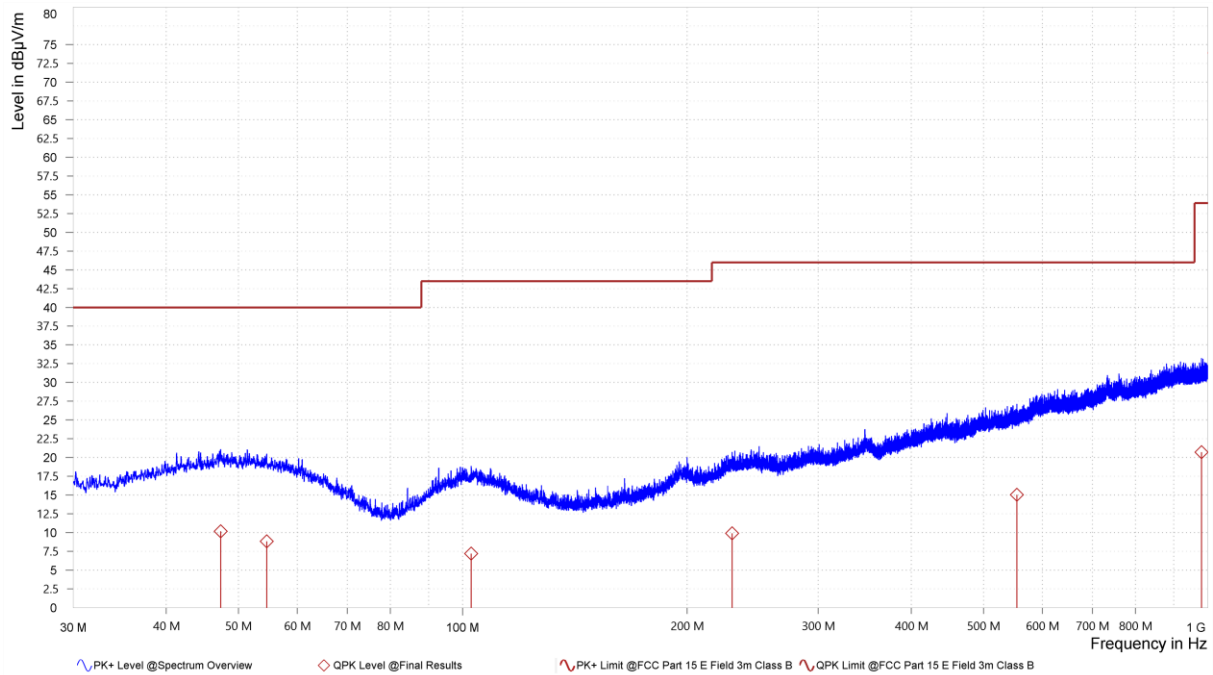


Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization
48.480	9.92	40.00	30.08	20.32	H
56.520	8.53	40.00	31.47	19.70	H
98.460	7.21	43.50	36.29	17.93	H
224.190	15.30	46.00	30.70	18.11	H
288.840	17.36	46.00	28.64	19.85	H
916.050	20.85	46.00	25.15	30.00	H

Results

Emissions in restricted frequency bands

30MHz – 1GHz, Normal Mode,
Antenna polarization-Vertical



Frequency [MHz]	QPK Level [dBµV/m]	QPK Limit [dBµV/m]	QPK Margin [dB]	Correction [dB]	Polarization
47.340	10.18	40.00	29.82	20.25	V
54.570	8.84	40.00	31.16	19.89	V
102.690	7.19	43.50	36.31	18.20	V
229.950	9.90	46.00	36.10	18.46	V
554.490	15.03	46.00	30.97	25.06	V
980.550	20.70	53.90	33.20	29.96	V

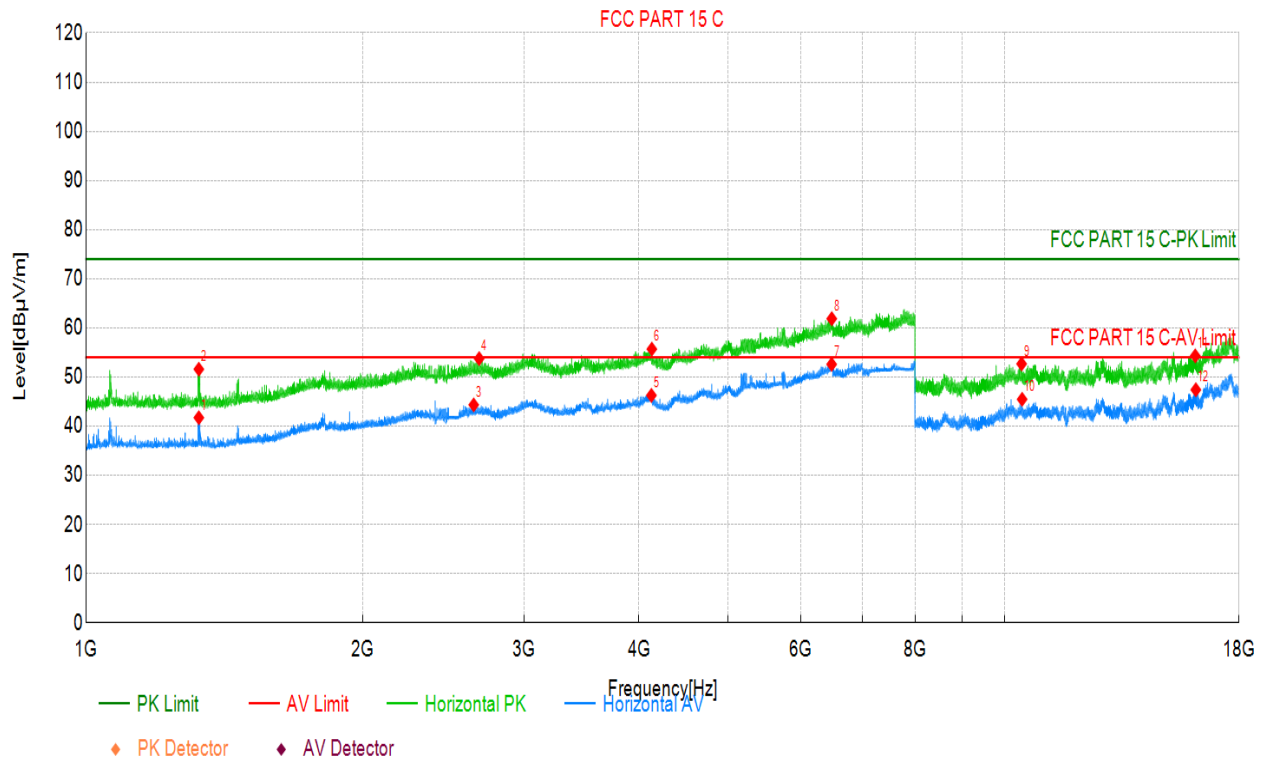
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2402MHz, 1Mbps

Antenna polarization-Horizontal



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1327.00	35.8	41.73	5.940	54.00	12.27	AV	Horiz	PASS
1327.00	45.7	51.59	5.940	74.00	22.41	PK	Horiz	PASS
2643.00	31.1	44.34	13.250	54.00	9.66	AV	Horiz	PASS
2679.25	40.3	53.76	13.430	74.00	20.24	PK	Horiz	PASS
4126.25	30.3	46.28	15.960	54.00	7.72	AV	Horiz	PASS
4130.63	39.8	55.69	15.880	74.00	18.31	PK	Horiz	PASS
6483.75	30.5	52.59	22.080	54.00	1.41	AV	Horiz	PASS
6485.00	39.8	61.87	22.080	74.00	12.13	PK	Horiz	PASS
10437.33	38.9	52.69	13.840	74.00	21.31	PK	Horiz	PASS
10450.67	31.7	45.47	13.800	54.00	8.53	AV	Horiz	PASS
16130.00	35.1	54.32	19.200	74.00	19.68	PK	Horiz	PASS
16152.67	28.3	47.42	19.110	54.00	6.58	AV	Horiz	PASS

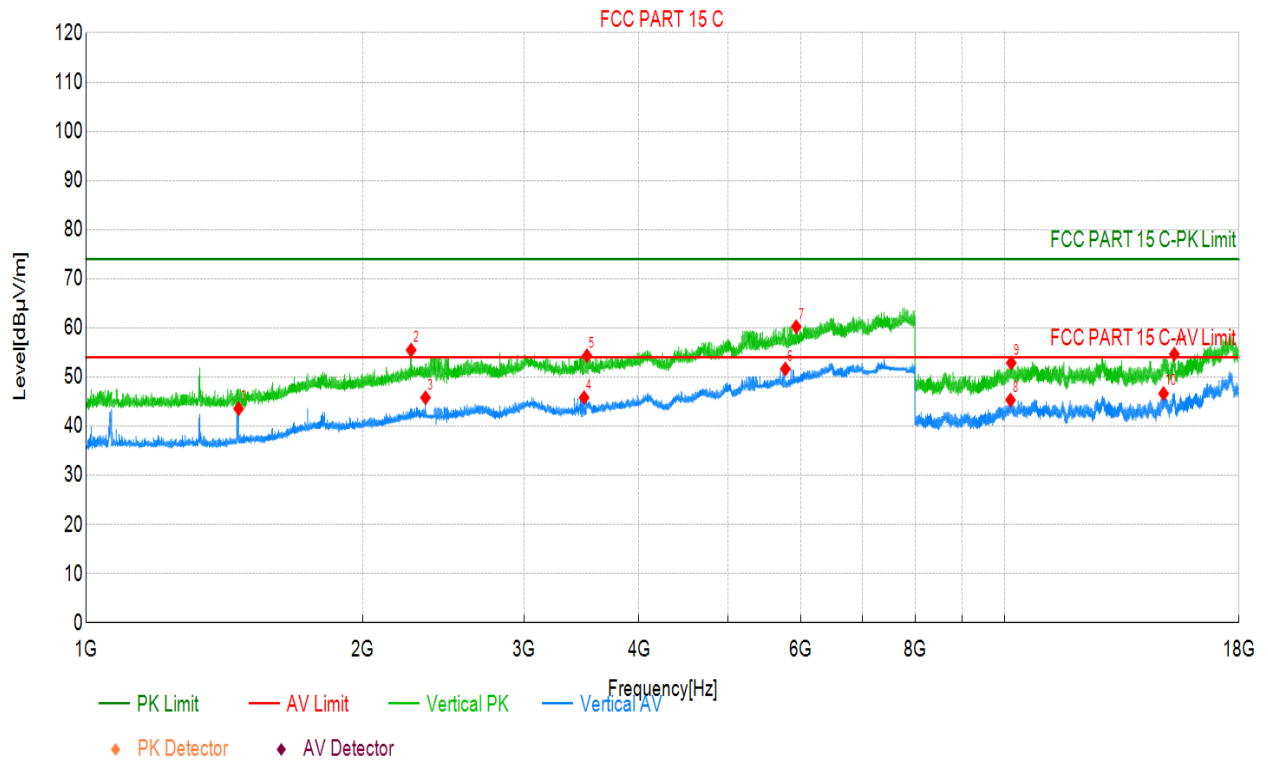
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2402MHz, 1Mbps

Antenna polarization-Vertical



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1466.25	37.0	43.56	6.580	54.00	10.44	AV	Verti	PASS
2259.00	43.3	55.49	12.200	74.00	18.51	PK	Verti	PASS
2342.00	33.3	45.81	12.550	54.00	8.19	AV	Verti	PASS
3486.25	30.6	45.83	15.280	54.00	8.17	AV	Verti	PASS
3510.63	39.0	54.34	15.360	74.00	19.66	PK	Verti	PASS
5773.13	31.9	51.65	19.760	54.00	2.35	AV	Verti	PASS
5931.88	40.0	60.24	20.240	74.00	13.76	PK	Verti	PASS
10150.67	31.8	45.34	13.570	54.00	8.66	AV	Verti	PASS
10170.00	39.2	52.87	13.630	74.00	21.13	PK	Verti	PASS
14900.00	27.6	46.64	19.000	54.00	7.36	AV	Verti	PASS
15306.67	34.6	54.67	20.070	74.00	19.33	PK	Verti	PASS

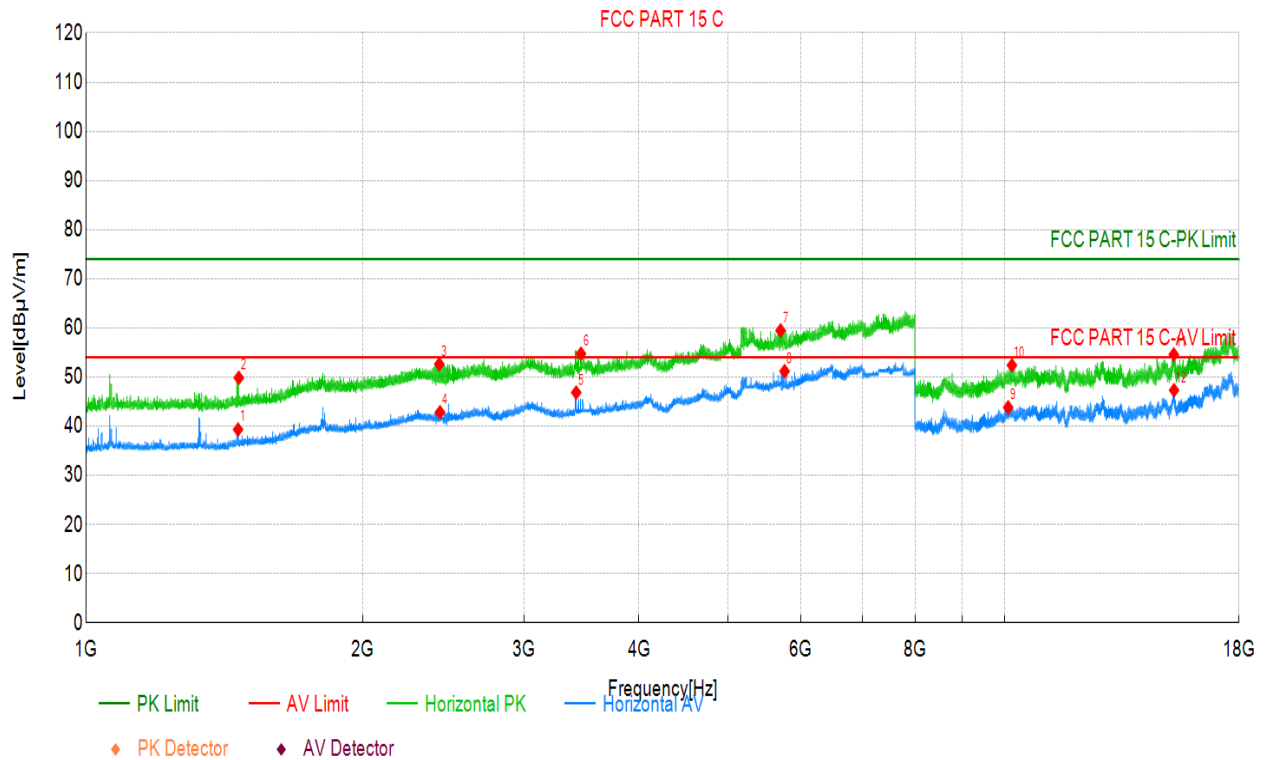
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2480MHz, 1Mbps

Antenna polarization-Horizontal



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1464.00	32.8	39.33	6.550	54.00	14.67	AV	Horiz	PASS
1466.75	43.3	49.84	6.580	74.00	24.16	PK	Horiz	PASS
2424.75	40.2	52.62	12.460	74.00	21.38	PK	Horiz	PASS
2428.75	30.4	42.83	12.470	54.00	11.17	AV	Horiz	PASS
3417.50	32.6	46.86	14.310	54.00	7.14	AV	Horiz	PASS
3458.75	39.9	54.76	14.900	74.00	19.24	PK	Horiz	PASS
5703.75	39.3	59.48	20.220	74.00	14.52	PK	Horiz	PASS
5761.88	31.4	51.19	19.830	54.00	2.81	AV	Horiz	PASS
10090.67	30.5	43.82	13.340	54.00	10.18	AV	Horiz	PASS
10186.00	38.7	52.39	13.690	74.00	21.61	PK	Horiz	PASS
15285.33	34.7	54.59	19.910	74.00	19.41	PK	Horiz	PASS
15296.67	27.1	47.33	20.200	54.00	6.67	AV	Horiz	PASS

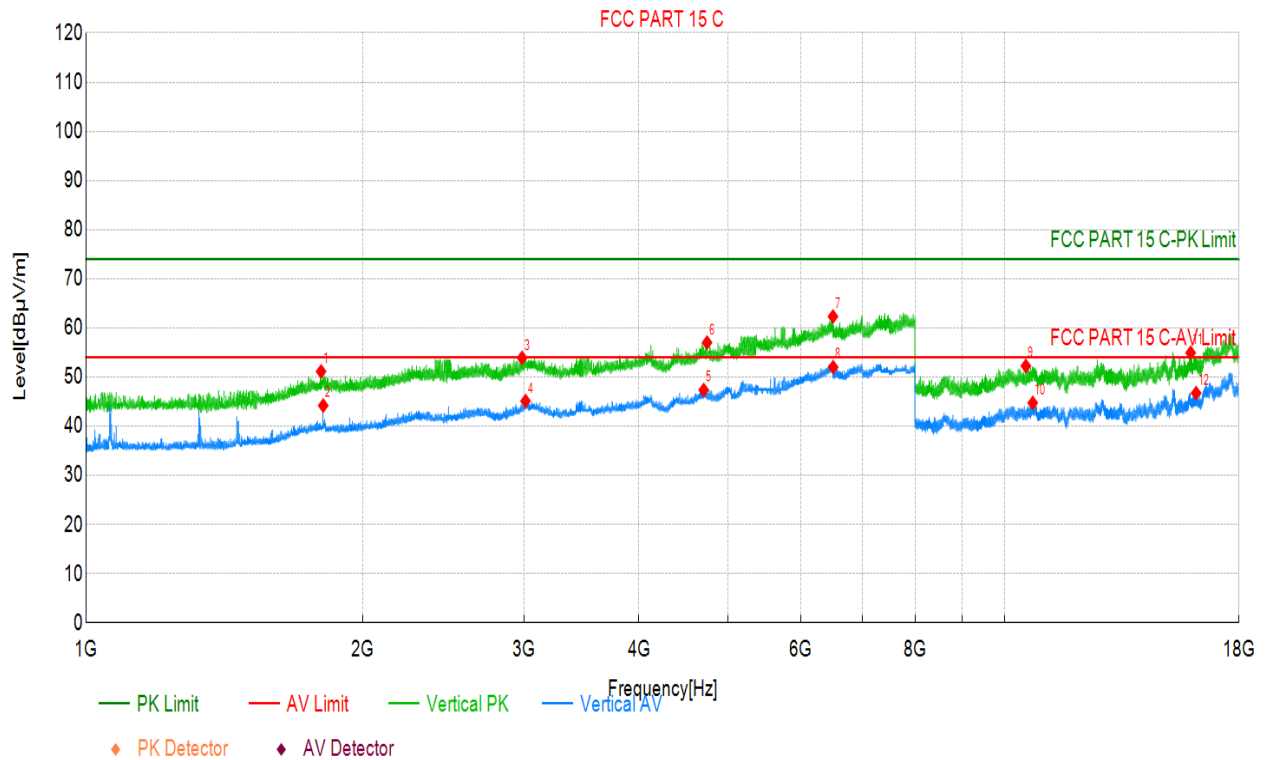
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2480MHz, 1Mbps

Antenna polarization-Vertical



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1802.75	41.1	51.14	10.080	74.00	22.86	PK	Verti	PASS
1812.50	34.2	44.20	10.050	54.00	9.80	AV	Verti	PASS
2983.50	39.7	53.91	14.220	74.00	20.09	PK	Verti	PASS
3009.38	29.8	45.12	15.300	54.00	8.88	AV	Verti	PASS
4704.38	30.2	47.36	17.160	54.00	6.64	AV	Verti	PASS
4743.75	40.1	57.01	16.950	74.00	16.99	PK	Verti	PASS
6505.00	40.2	62.33	22.150	74.00	11.67	PK	Verti	PASS
6508.13	29.9	52.02	22.150	54.00	1.98	AV	Verti	PASS
10548.67	38.5	52.26	13.720	74.00	21.74	PK	Verti	PASS
10732.67	30.3	44.75	14.440	54.00	9.25	AV	Verti	PASS
15943.33	36.2	54.93	18.730	74.00	19.07	PK	Verti	PASS
16162.67	27.7	46.73	19.080	54.00	7.27	AV	Verti	PASS

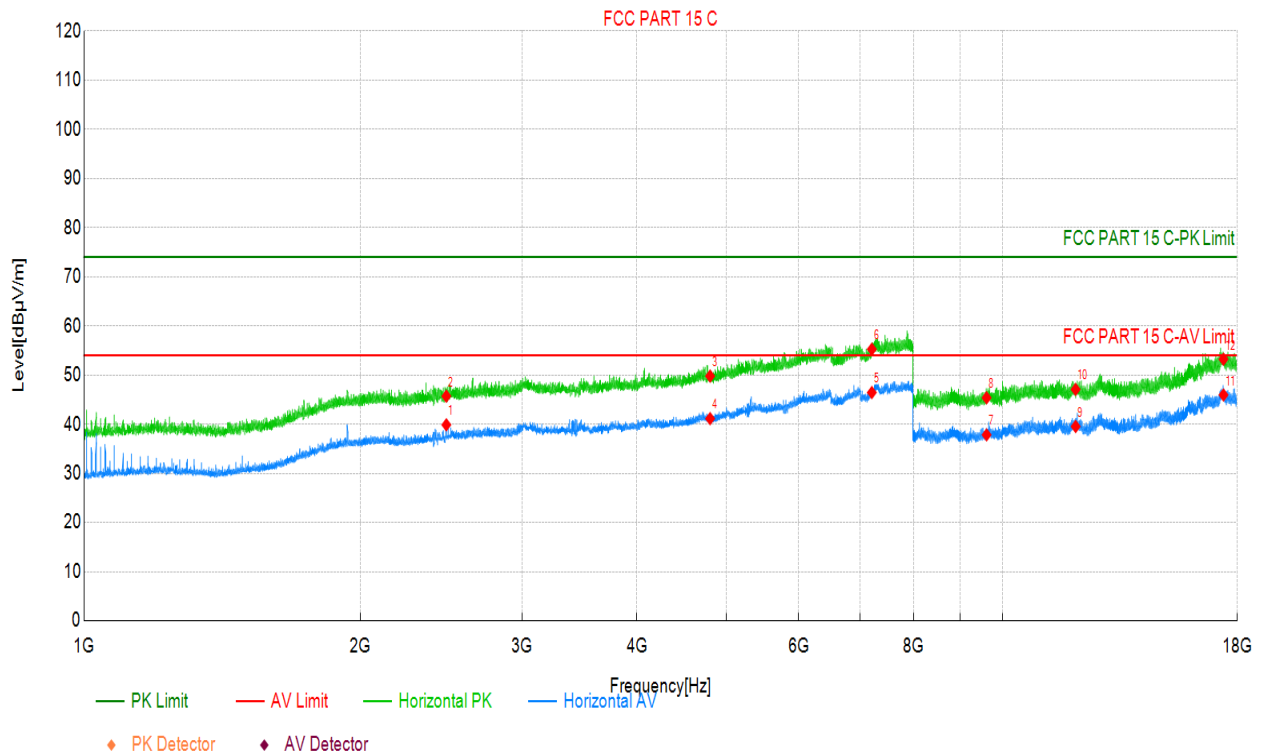
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2402MHz, 2Mbps

Antenna polarization-Horizontal



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2480.25	31.5	39.88	8.340	54.00	14.12	AV	Hori	PASS
2	2480.25	37.4	45.70	8.340	74.00	28.30	PK	Hori	PASS
3	4804.00	38.1	49.79	11.740	74.00	24.21	PK	Hori	PASS
4	4804.00	29.4	41.14	11.740	54.00	12.86	AV	Hori	PASS
5	7206.00	28.9	46.44	17.570	54.00	7.56	AV	Hori	PASS
6	7206.00	37.7	55.26	17.570	74.00	18.74	PK	Hori	PASS
7	9608.00	30.7	37.83	7.100	54.00	16.17	AV	Hori	PASS
8	9608.00	38.3	45.38	7.100	74.00	28.62	PK	Hori	PASS
9	12010.00	29.6	39.54	9.980	54.00	14.46	AV	Hori	PASS
10	12010.00	37.1	47.08	9.980	74.00	26.92	PK	Hori	PASS
11	17399.33	25.9	45.95	20.040	54.00	8.05	AV	Hori	PASS
12	17399.33	33.2	53.22	20.040	74.00	20.78	PK	Hori	PASS

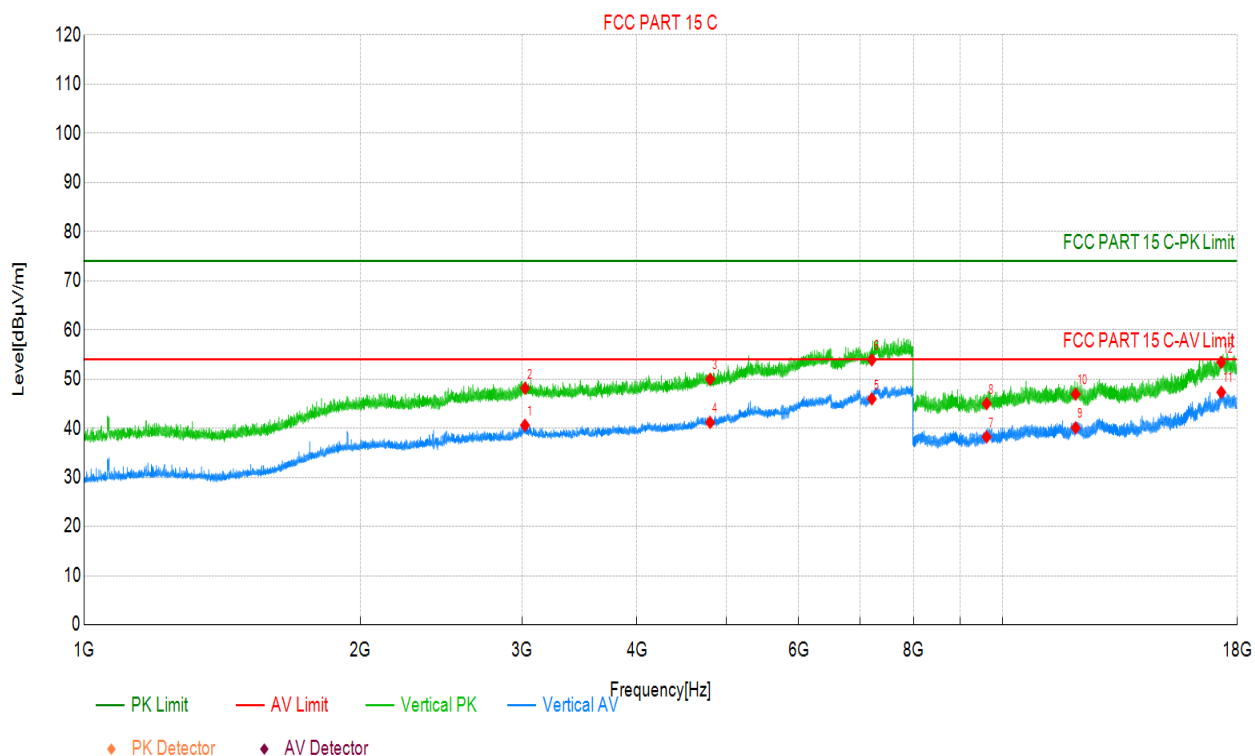
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2402MHz, 2Mbps

Antenna polarization-Vertical



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	3020.63	29.9	40.60	10.750	54.00	13.40	AV	Verti	PASS
2	3020.63	37.4	48.13	10.750	74.00	25.87	PK	Verti	PASS
3	4804.00	38.2	49.96	11.740	74.00	24.04	PK	Verti	PASS
4	4804.00	29.4	41.18	11.740	54.00	12.82	AV	Verti	PASS
5	7206.00	28.4	45.96	17.570	54.00	8.04	AV	Verti	PASS
6	7206.00	36.3	53.90	17.570	74.00	20.10	PK	Verti	PASS
7	9608.00	31.1	38.23	7.100	54.00	15.77	AV	Verti	PASS
8	9608.00	37.9	45.00	7.100	74.00	29.00	PK	Verti	PASS
9	12010.00	30.1	40.08	9.980	54.00	13.92	AV	Verti	PASS
10	12010.00	37.0	46.93	9.980	74.00	27.07	PK	Verti	PASS
11	17301.33	27.2	47.32	20.100	54.00	6.68	AV	Verti	PASS
12	17301.33	33.3	53.40	20.100	74.00	20.60	PK	Verti	PASS

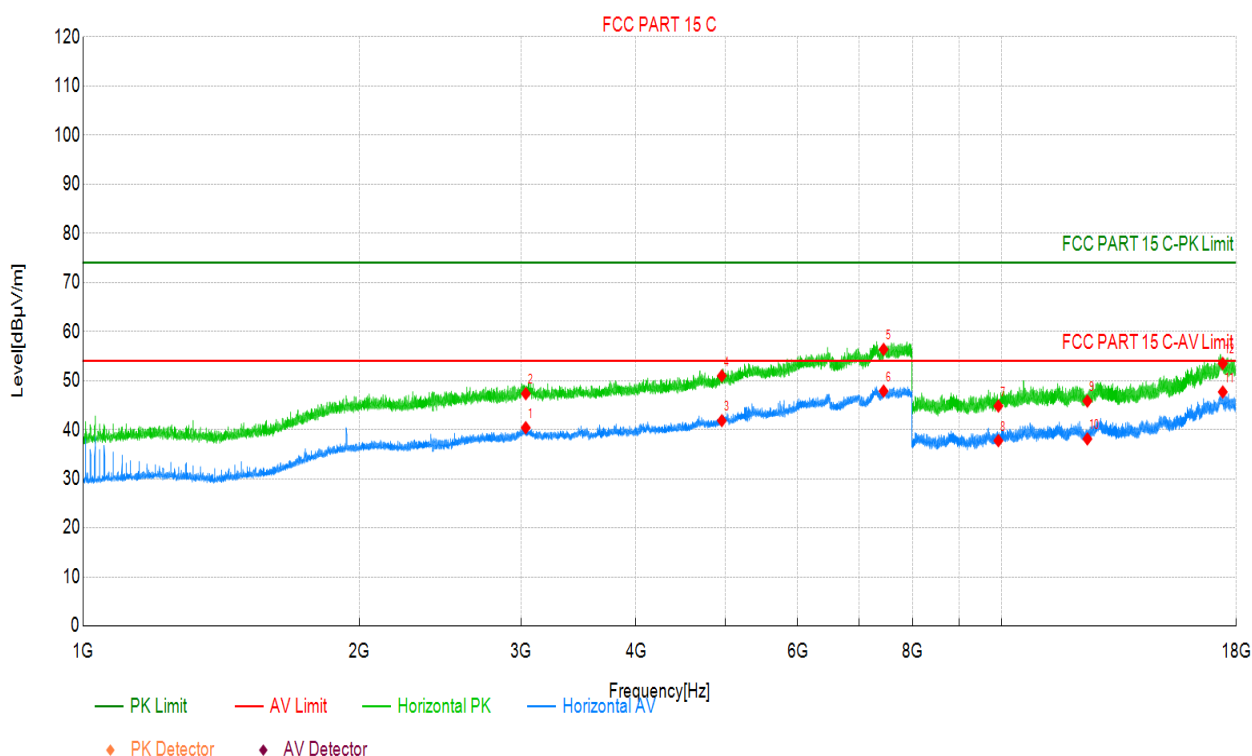
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2480MHz, 2Mbps

Antenna polarization-Horizontal



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	3034.38	29.7	40.39	10.690	54.00	13.61	AV	Hori	PASS
2	3034.38	36.6	47.33	10.690	74.00	26.67	PK	Hori	PASS
3	4960.00	29.4	41.84	12.450	54.00	12.16	AV	Hori	PASS
4	4960.00	38.5	50.96	12.450	74.00	23.04	PK	Hori	PASS
5	7440.00	38.4	56.35	17.930	74.00	17.65	PK	Hori	PASS
6	7440.00	29.9	47.86	17.930	54.00	6.14	AV	Hori	PASS
7	9920.00	37.6	44.82	7.260	74.00	29.18	PK	Hori	PASS
8	9920.00	30.5	37.76	7.260	54.00	16.24	AV	Hori	PASS
9	12400.00	36.7	45.82	9.160	74.00	28.18	PK	Hori	PASS
10	12400.00	28.9	38.10	9.160	54.00	15.90	AV	Hori	PASS
11	17410.00	27.7	47.68	19.990	54.00	6.32	AV	Hori	PASS
12	17410.00	33.5	53.48	19.990	74.00	20.52	PK	Hori	PASS

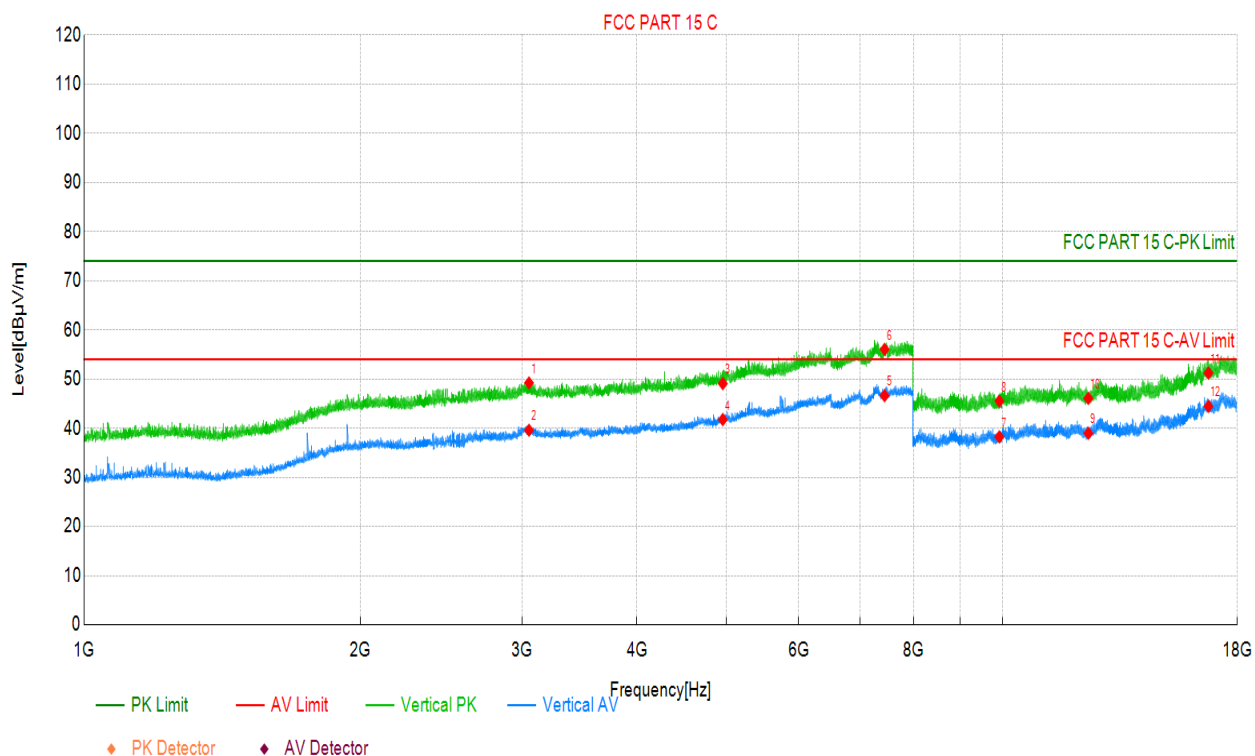
Results

Emissions in restricted frequency bands

1GHz – 10th Harmonic

2480MHz, 2Mbps

Antenna polarization-Vertical



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	3051.25	38.6	49.21	10.610	74.00	24.79	PK	Verti	PASS
2	3051.25	29.0	39.60	10.610	54.00	14.40	AV	Verti	PASS
3	4960.00	36.6	49.08	12.450	74.00	24.92	PK	Verti	PASS
4	4960.00	29.3	41.76	12.450	54.00	12.24	AV	Verti	PASS
5	7440.00	28.7	46.63	17.930	54.00	7.37	AV	Verti	PASS
6	7440.00	38.1	56.05	17.930	74.00	17.95	PK	Verti	PASS
7	9920.00	31.0	38.24	7.260	54.00	15.76	AV	Verti	PASS
8	9920.00	38.3	45.52	7.260	74.00	28.48	PK	Verti	PASS
9	12400.00	29.8	38.97	9.160	54.00	15.03	AV	Verti	PASS
10	12400.00	36.9	46.08	9.160	74.00	27.92	PK	Verti	PASS
11	16755.33	32.7	51.22	18.490	74.00	22.78	PK	Verti	PASS
12	16755.33	26.0	44.44	18.490	54.00	9.56	AV	Verti	PASS

4.2	Emissions in non-restricted frequency band	VERDICT: PASS
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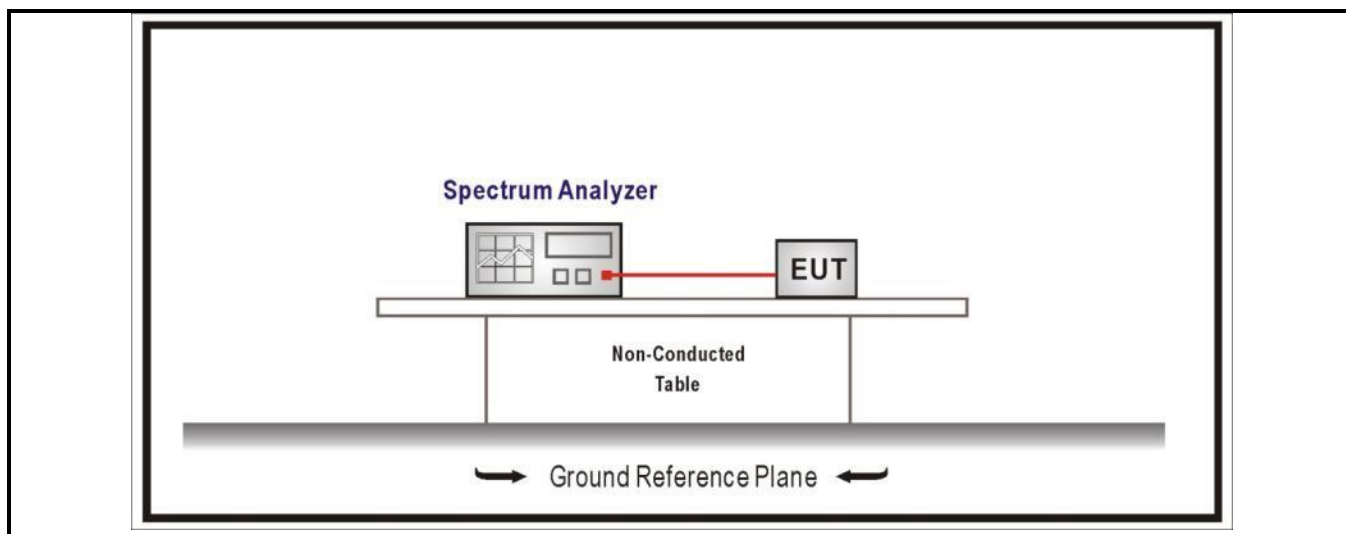
Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d) & RSS-247 Issue 3 Section 5.5 RSS-247 Issue 4 Section 6.6	
RF Output power (Detection methods)	Limit(dB)	
RF Output power(Average detector)	30dBc (Note 1)	
RF Output power(PK detector)	20dBc (Note 2)	

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD by Level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD by Level in 100 kHz (i.e., 20 dBc).

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

See next page

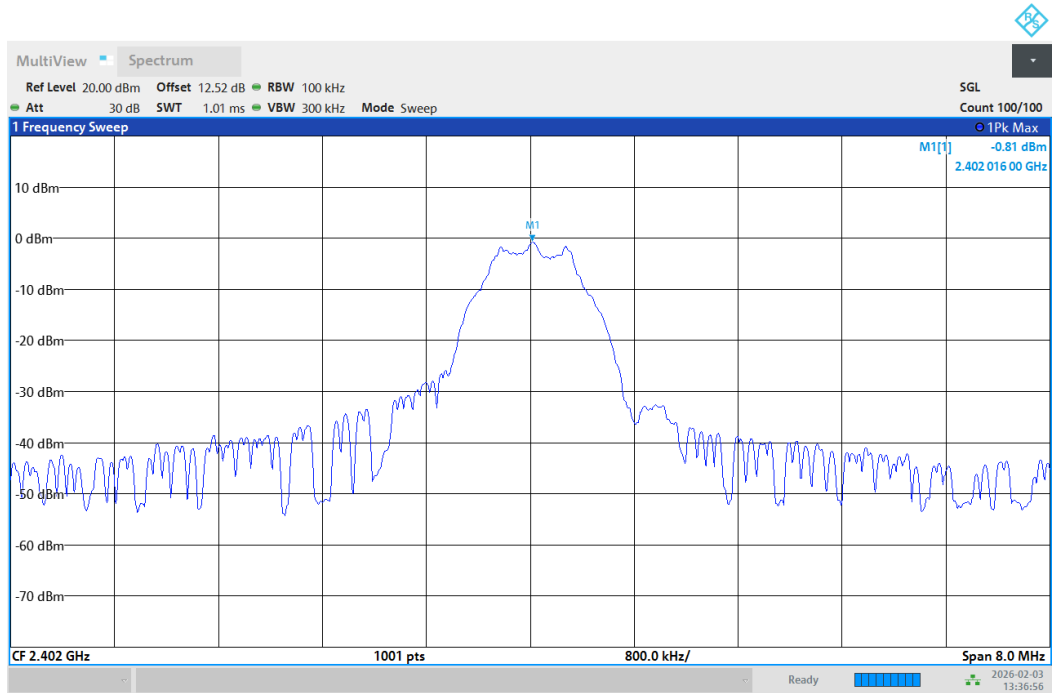
Results

Emissions in non-restricted frequency band

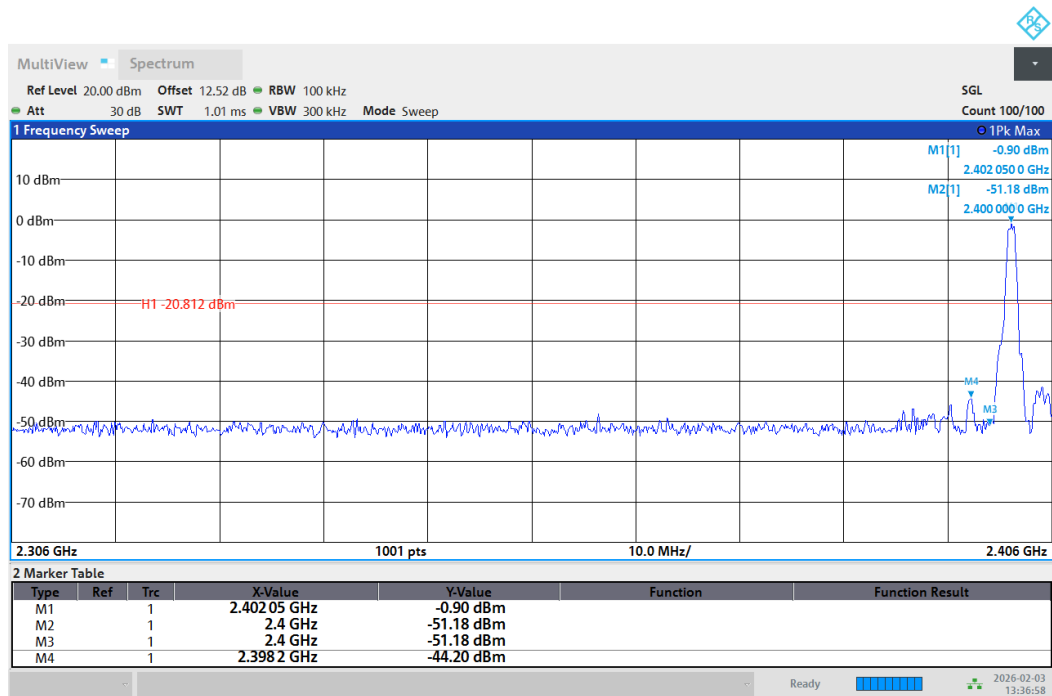
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-43.38	-20	Pass
BLE 1M	2480	-44.41	-20	Pass

Band Edge

2402MHz, 1Mbps

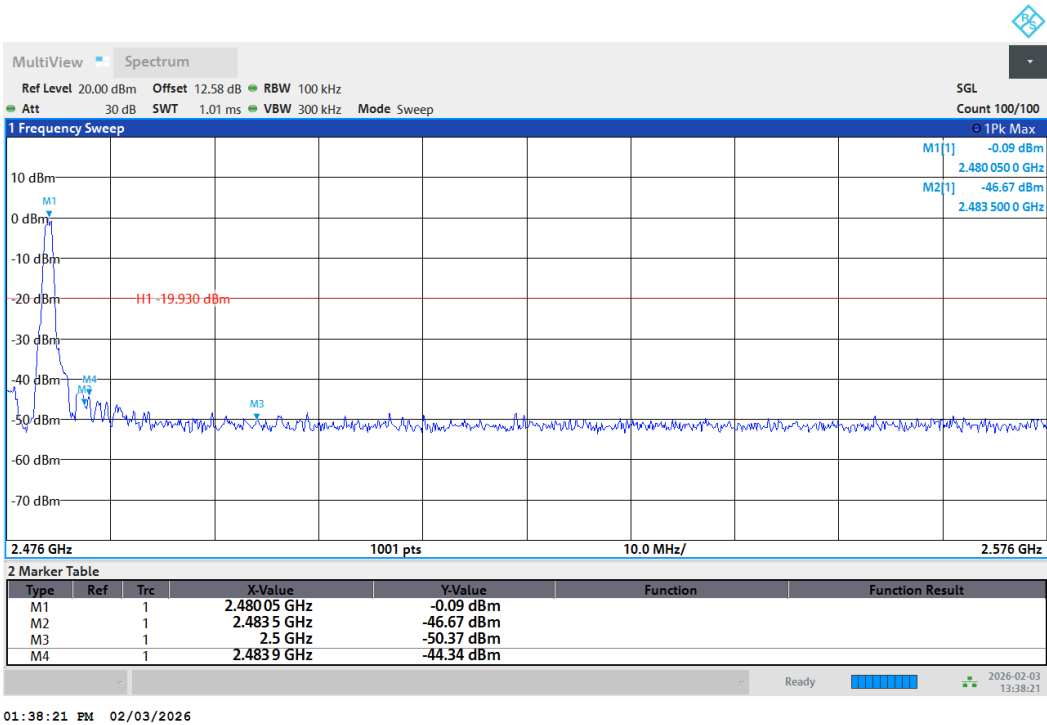
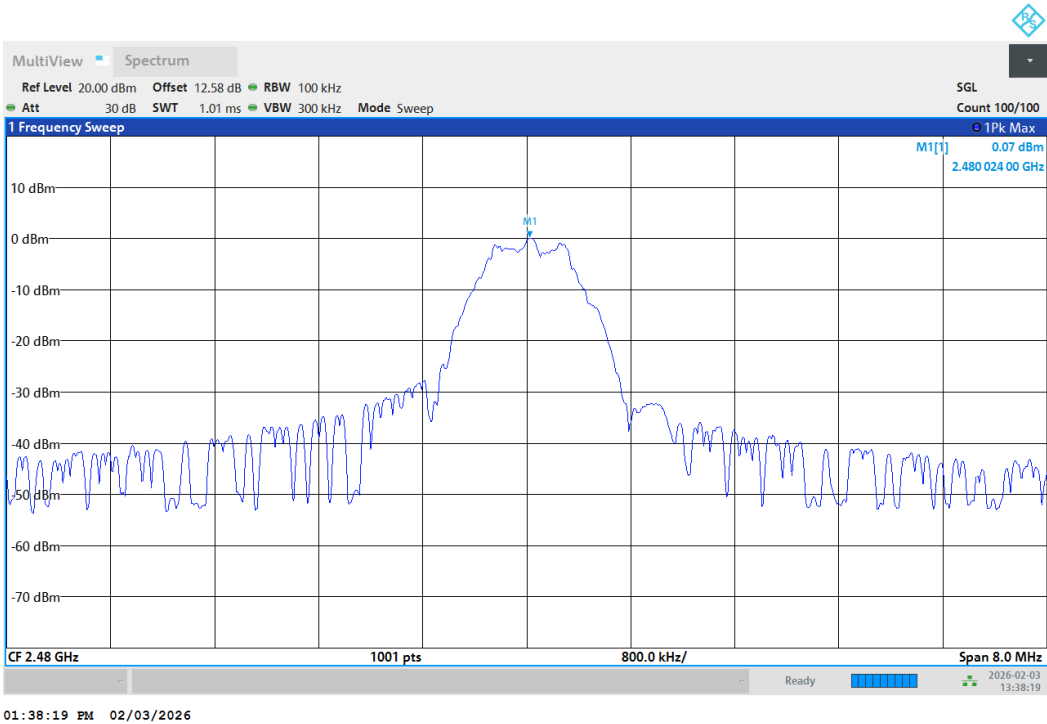


01:36:57 PM 02/03/2026



01:36:59 PM 02/03/2026

Results
Emissions in non-restricted frequency band
Band Edge
2480MHz, 1Mbps



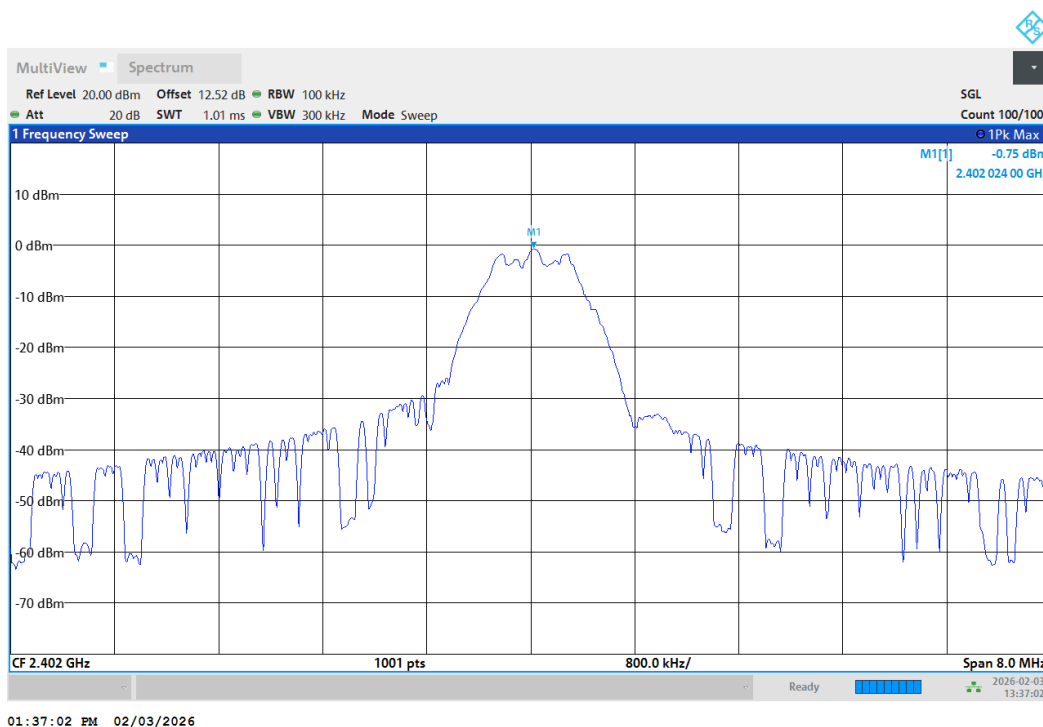
Results

Emissions in non-restricted frequency band

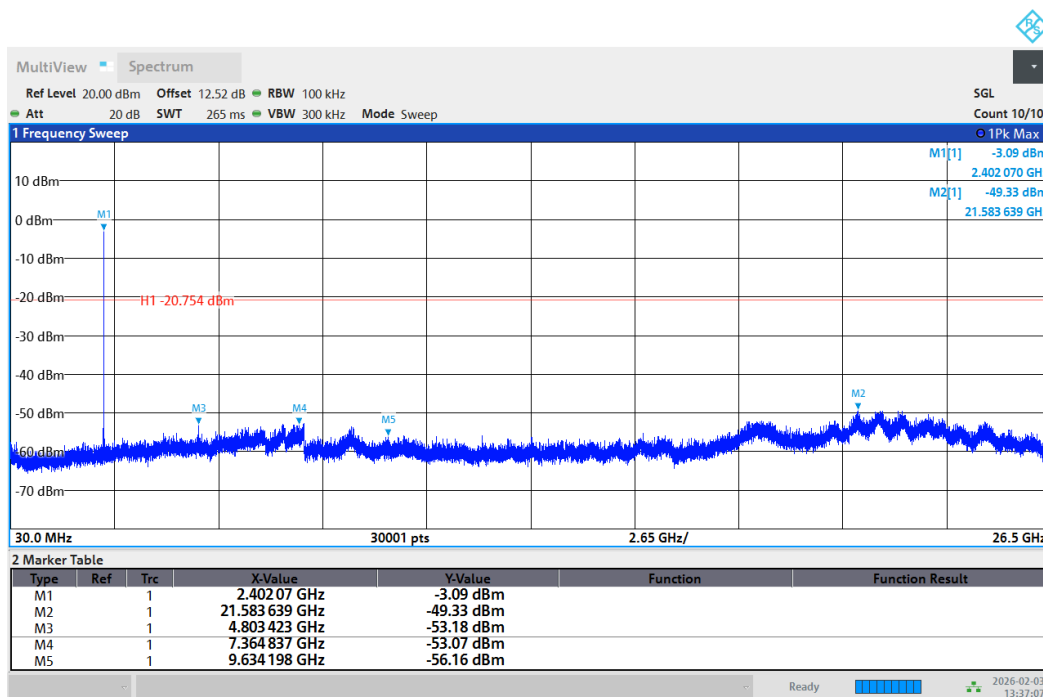
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-48.58	-20	Pass
BLE 1M	2480	-42.63	-20	Pass

Conducted RF Spurious Emission

2402MHz, 1Mbps

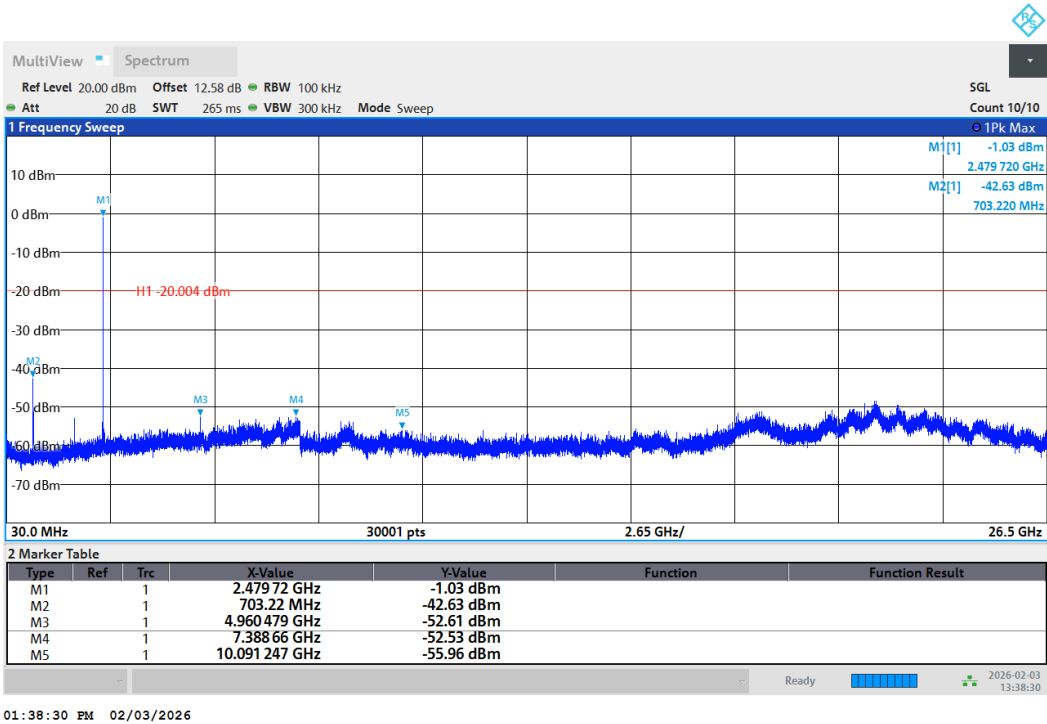
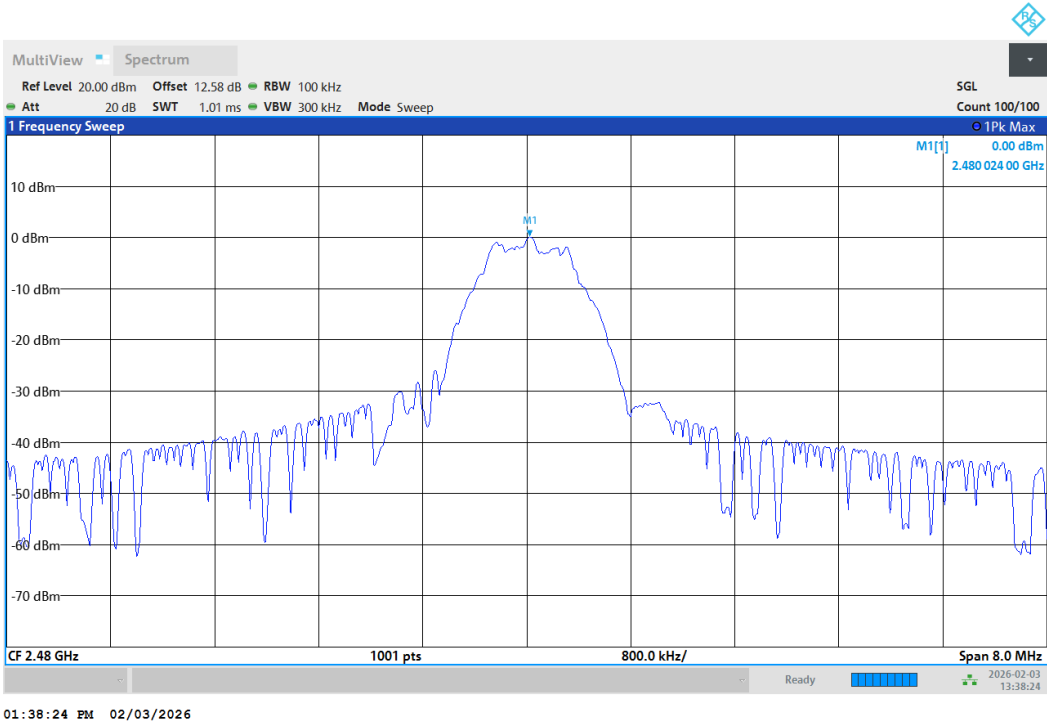


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01:37:08 PM 02/03/2026

Results
Conducted RF Spurious Emission
2480MHz, 1Mbps



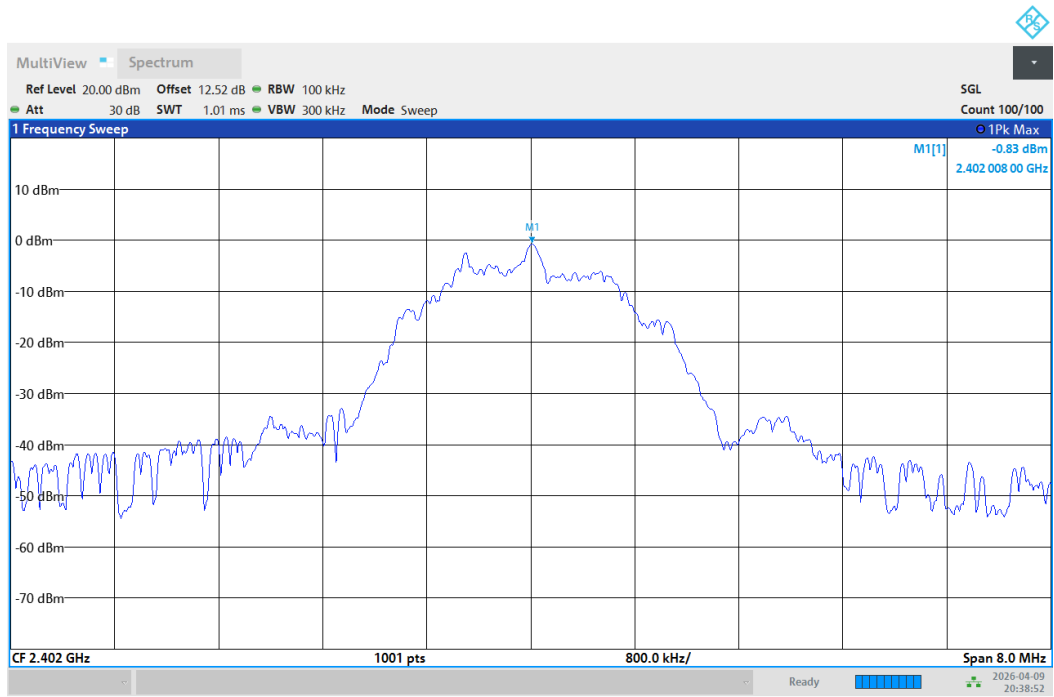
Results

Emissions in non-restricted frequency band

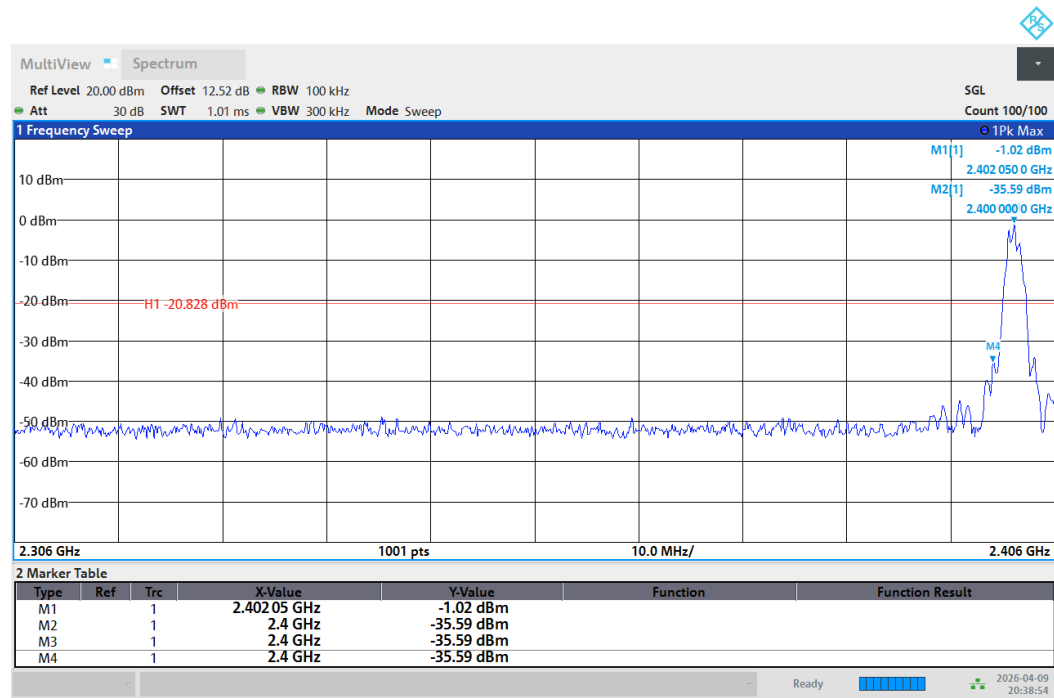
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 2M	2402	-34.76	-20	Pass
BLE 2M	2480	-44.53	-20	Pass

Band Edge

2402MHz, 2Mbps

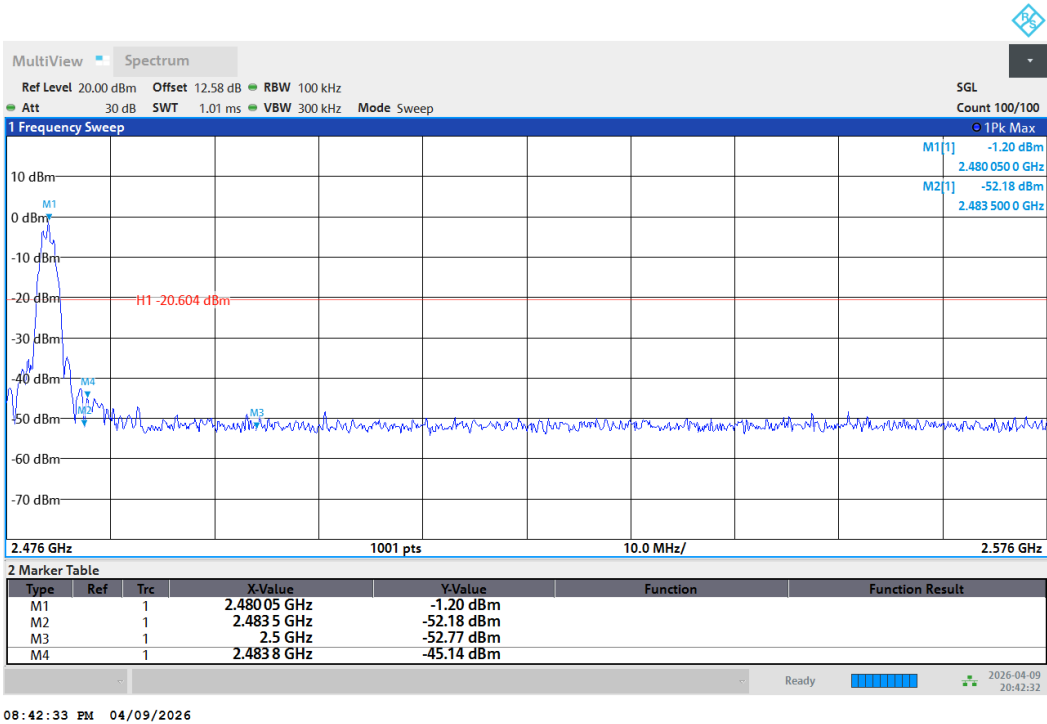
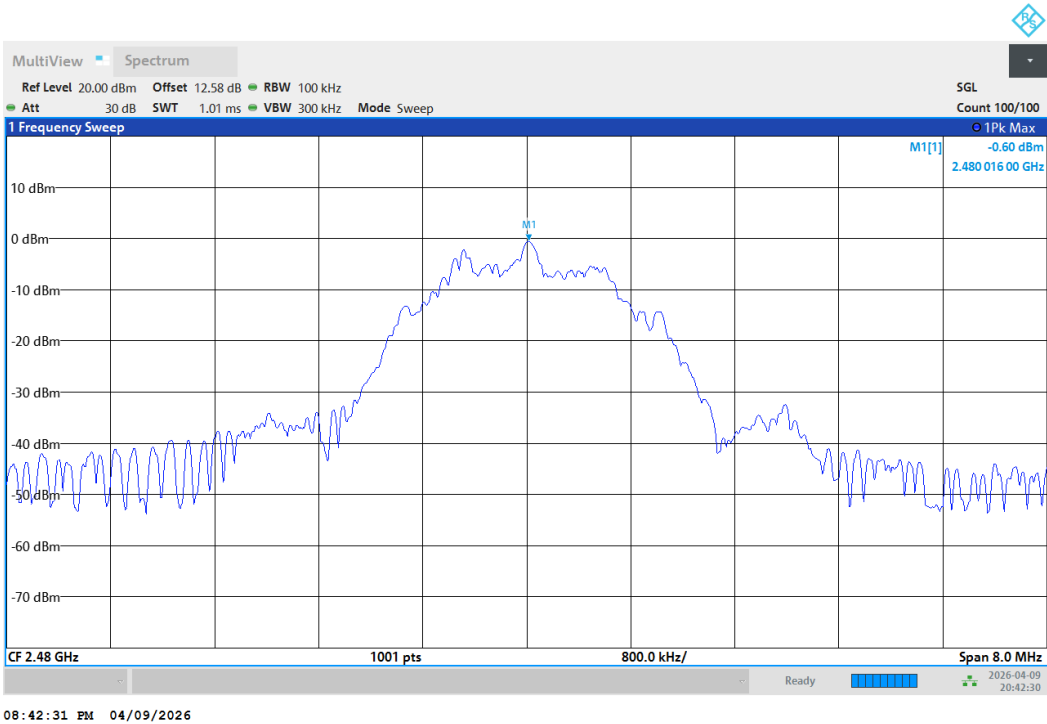


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08:38:54 PM 04/09/2026

Results
Emissions in non-restricted frequency band
Band Edge
2480MHz, 2Mbps

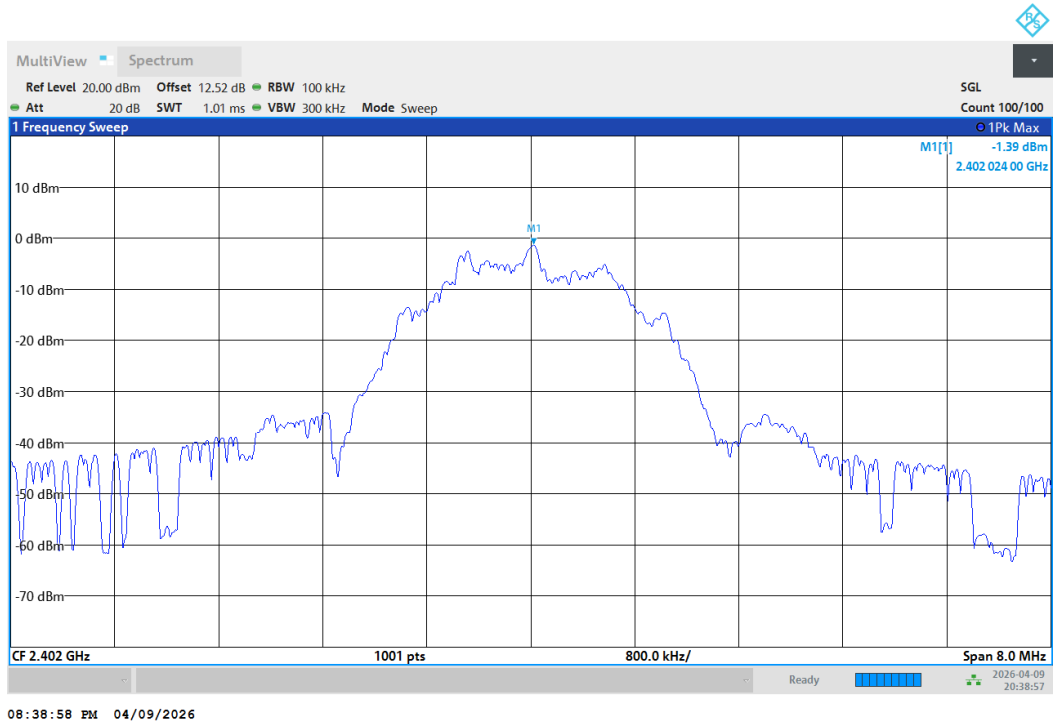


Results

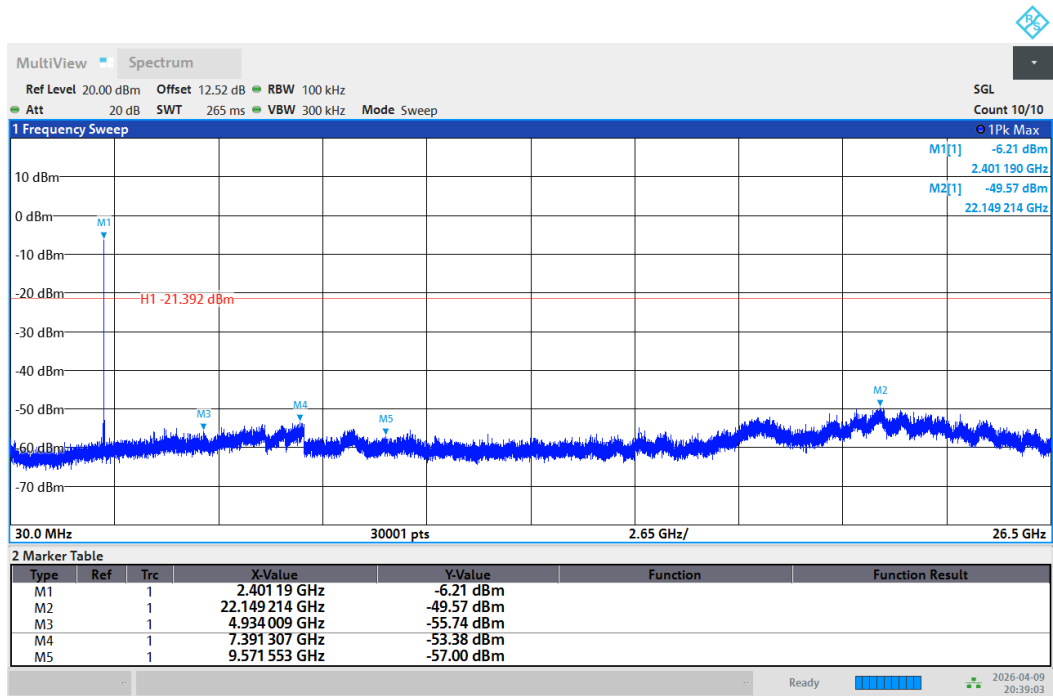
Emissions in non-restricted frequency band

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 2M	2402	-48.17	-20	Pass
BLE 2M	2480	-47.58	-20	Pass

Conducted RF Spurious Emission
2402MHz, 2Mbps

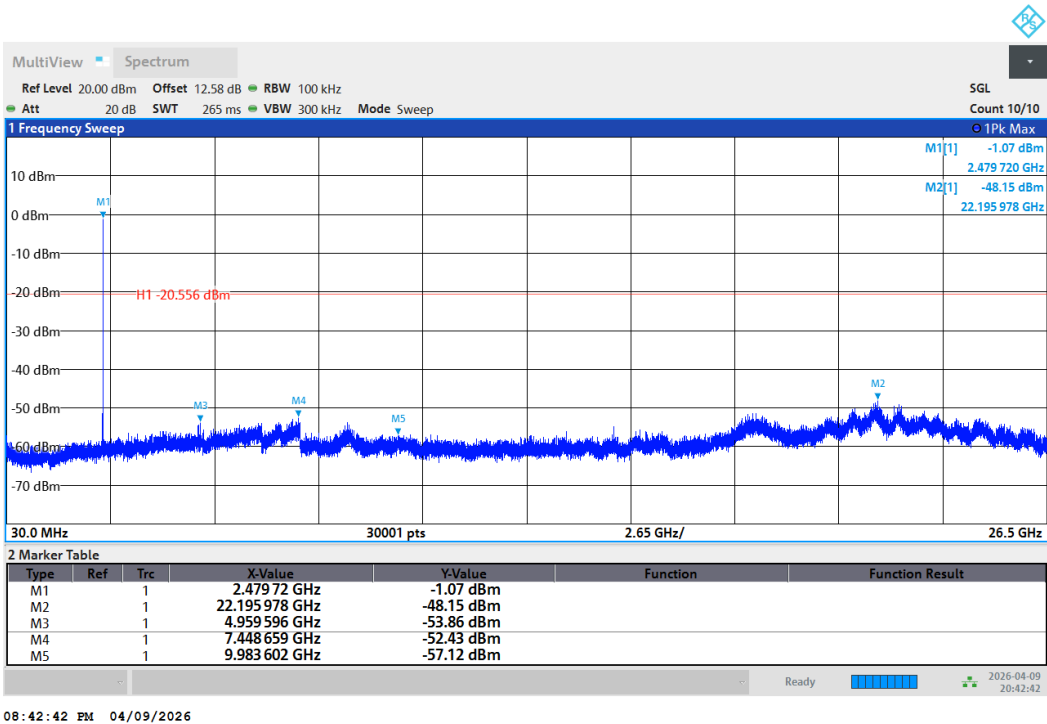
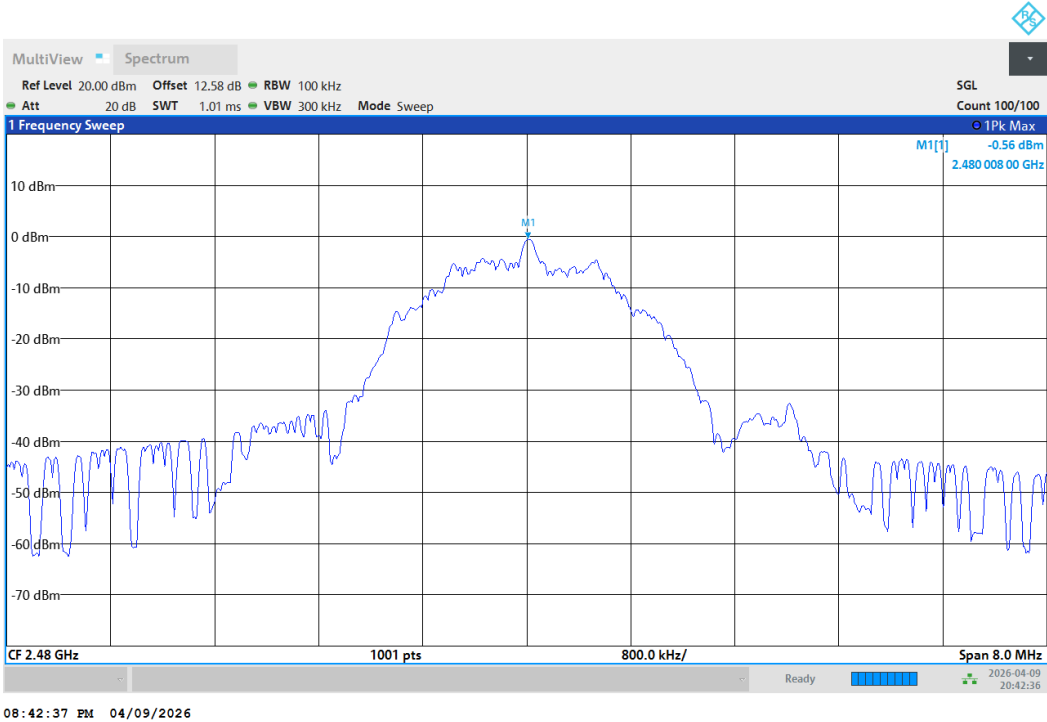


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08:39:03 PM 04/09/2026

Results
Conducted RF Spurious Emission
2480MHz, 2Mbps

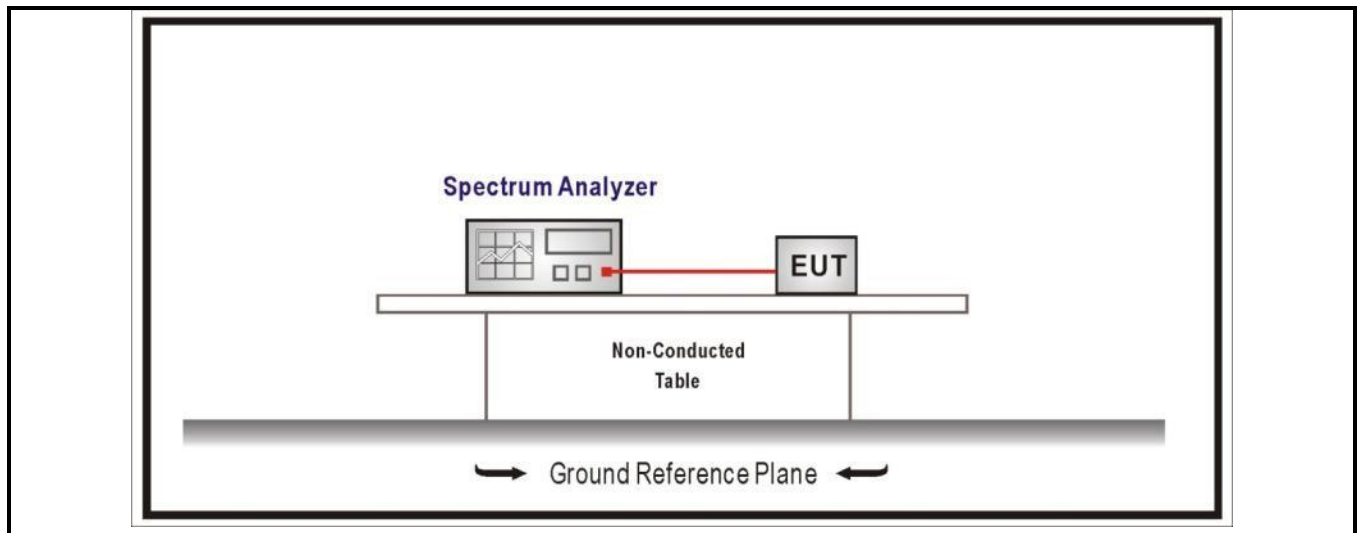


4.3	Duty Cycle	VERDICT: PASS
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Limit

N/A

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	For reporting purpose only	

Results

Mode	CH.	Test Freq. (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
BLE 1Mbps	00	2402	67.36	1.72	2.38
	19	2440	67.44	1.71	2.37
	39	2480	67.44	1.71	2.37
BLE 1Mbps	00	2402	38	4.2	4.21
	19	2440	37.92	4.21	4.22
	39	2480	37.92	4.21	4.22

Note:

According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW $\geq$ 1/T will be used.

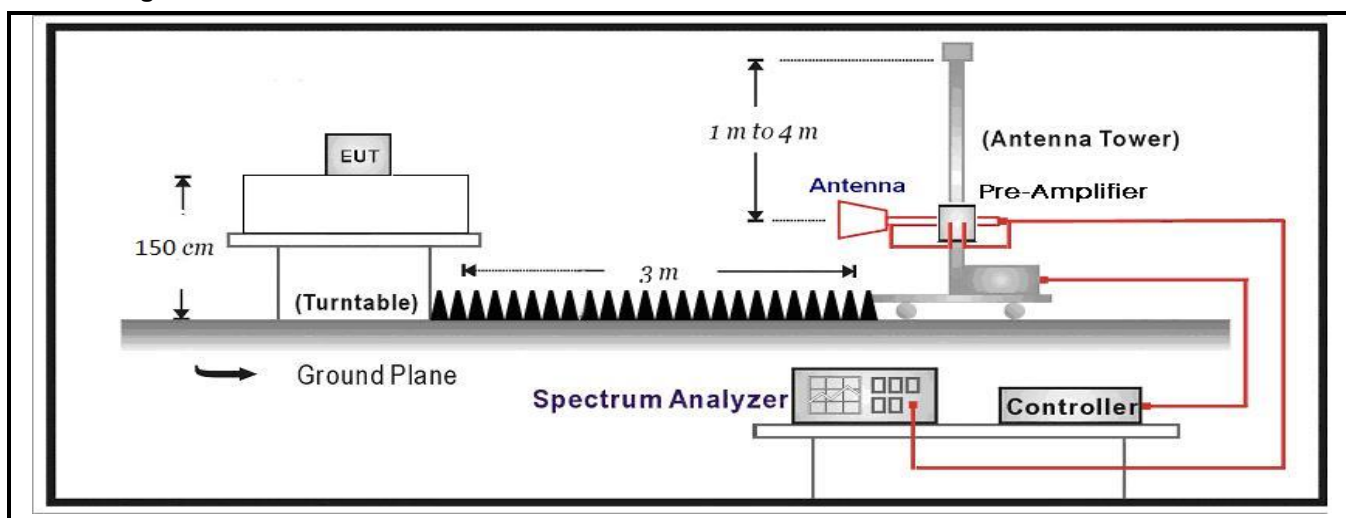
4.4	Radiated Emission Band Edge	VERDICT: PASS
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Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d), 15.205, 15.209 & RSS-Gen Issue 5 Section 8.9 & 8.10			
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

Test Configuration



Performed measurements

Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

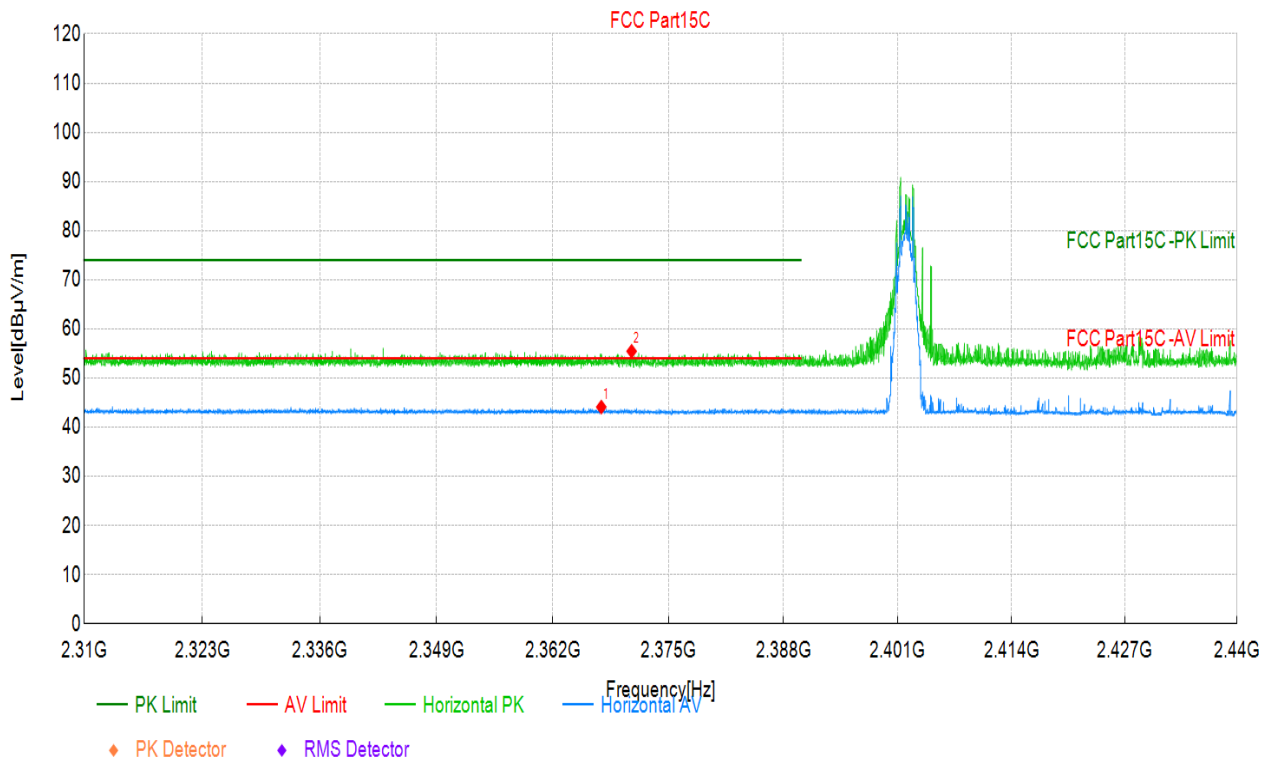
See next page

Results

Radiated Emission Band Edge

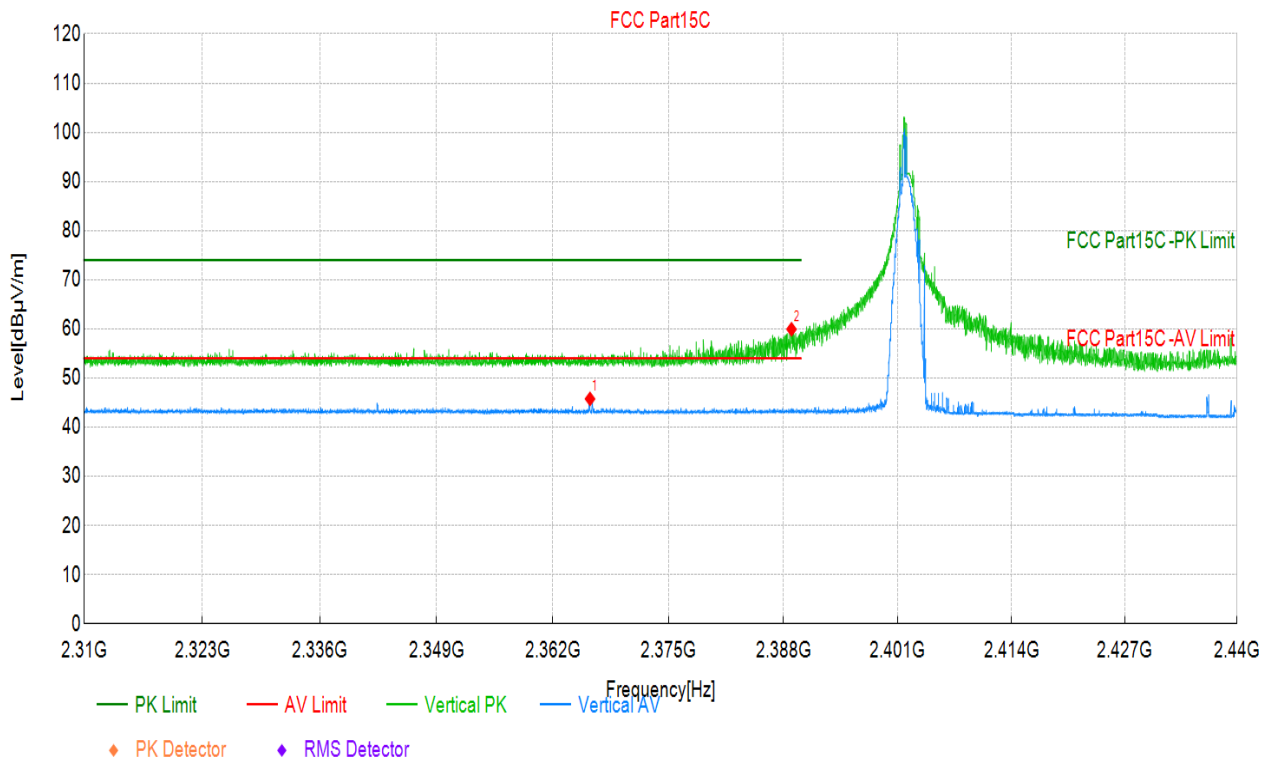
2402MHz, 1Mbps

Antenna polarization-Horizontal



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
2367.44	32.2	44.10	11.900	54.00	9.90	AV	Horiz	PASS
2370.86	43.6	55.45	11.900	74.00	18.55	PK	Horiz	PASS

Results
Radiated Emission Band Edge
2402MHz, 1Mbps
Antenna polarization-Vertical



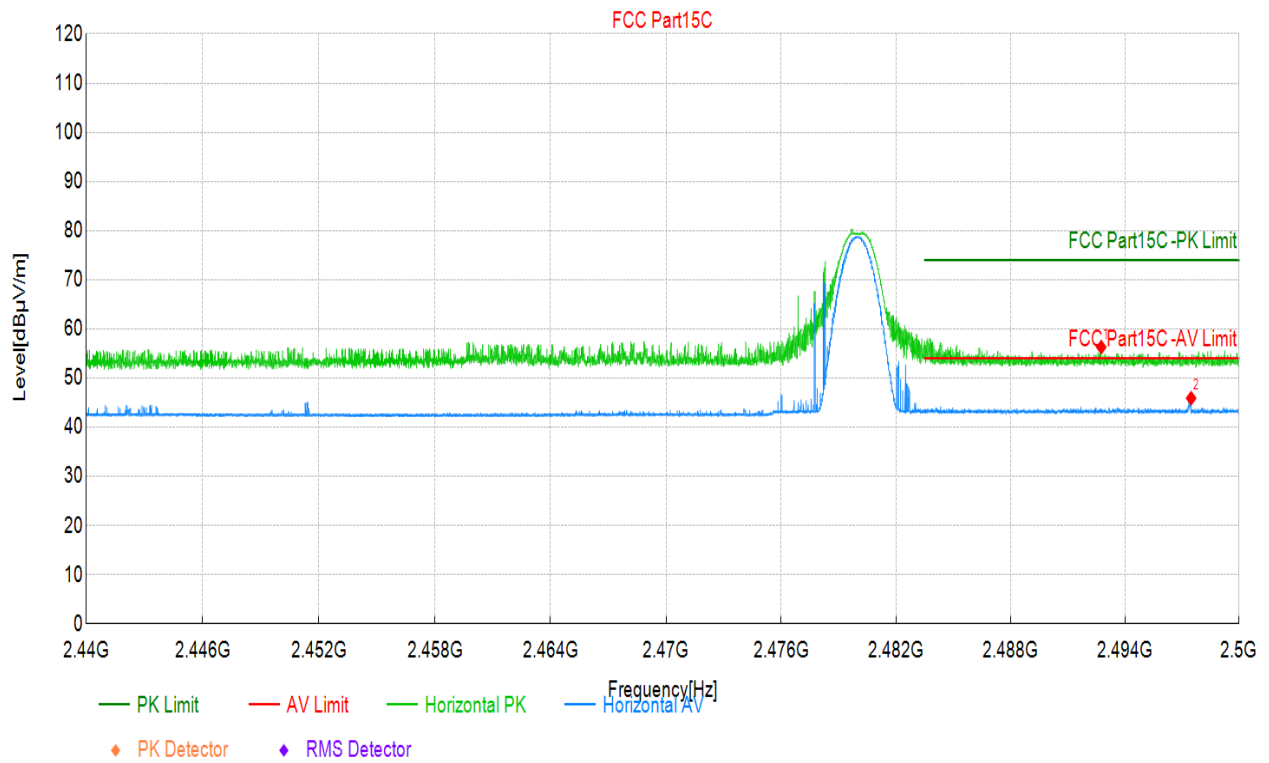
Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
2366.18	33.9	45.76	11.900	54.00	8.24	AV	Verti	PASS
2388.93	48.1	59.93	11.880	74.00	14.07	PK	Verti	PASS

Results

Radiated Emission Band Edge

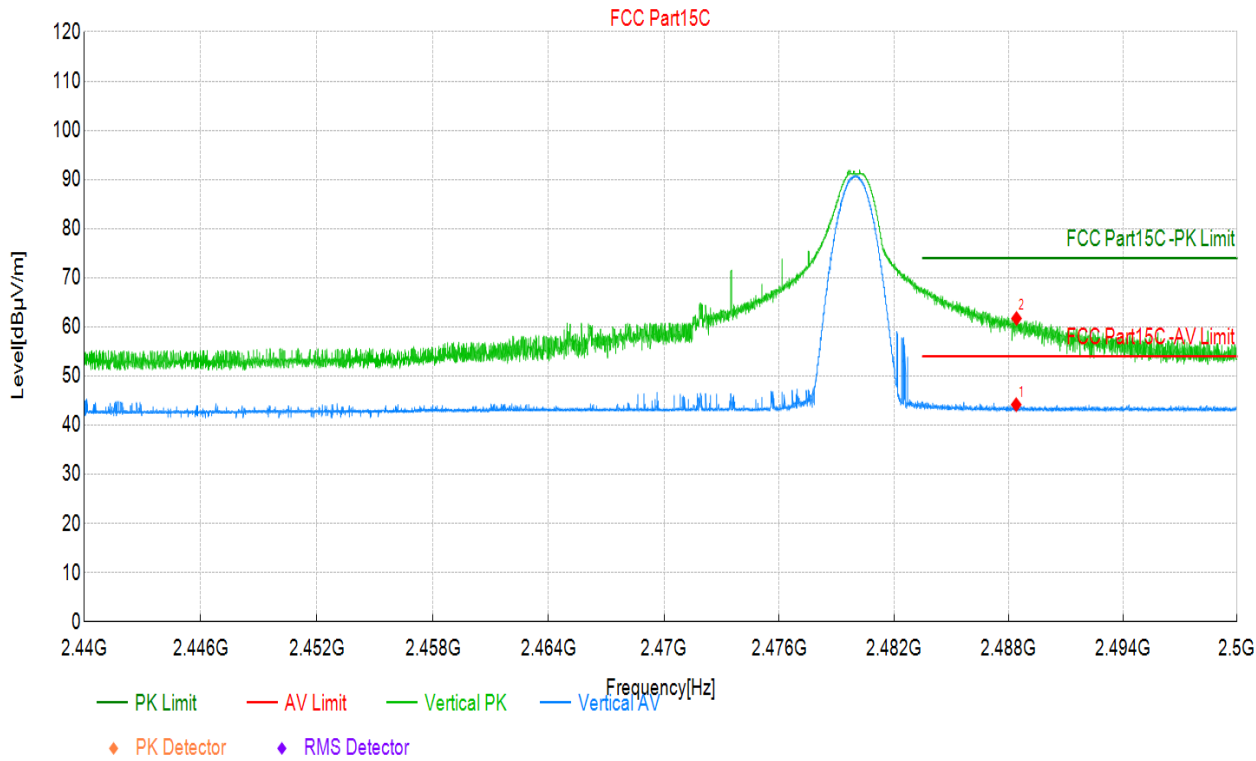
2480MHz, 1Mbps

Antenna polarization-Horizontal



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
2492.76	44.3	56.30	11.970	74.00	17.70	PK	Horiz	PASS
2497.48	34.0	45.91	11.960	54.00	8.09	AV	Horiz	PASS

Results
Radiated Emission Band Edge
2480MHz, 1Mbps
Antenna polarization-Vertical



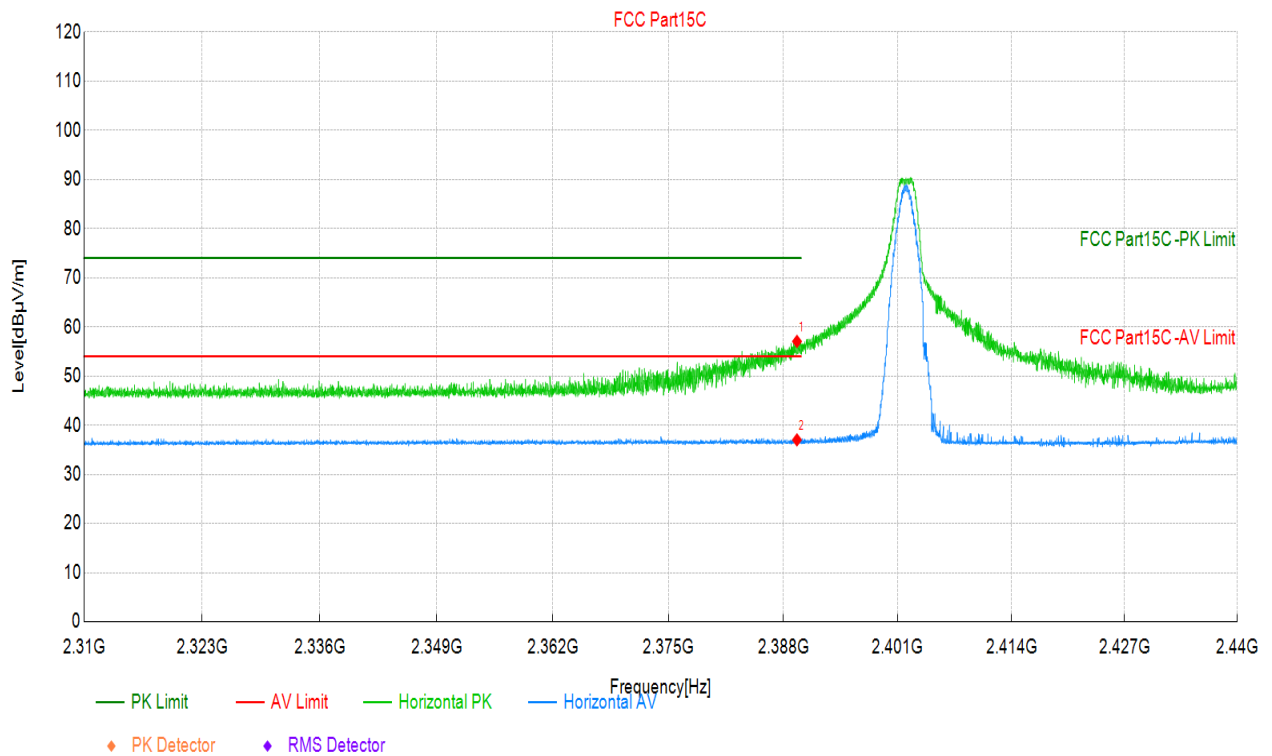
Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
2488.40	32.2	44.18	11.960	54.00	9.82	AV	Verti	PASS
2488.41	49.8	61.73	11.960	74.00	12.27	PK	Verti	PASS

Results

Radiated Emission Band Edge

2402MHz, 2Mbps

Antenna polarization-Horizontal



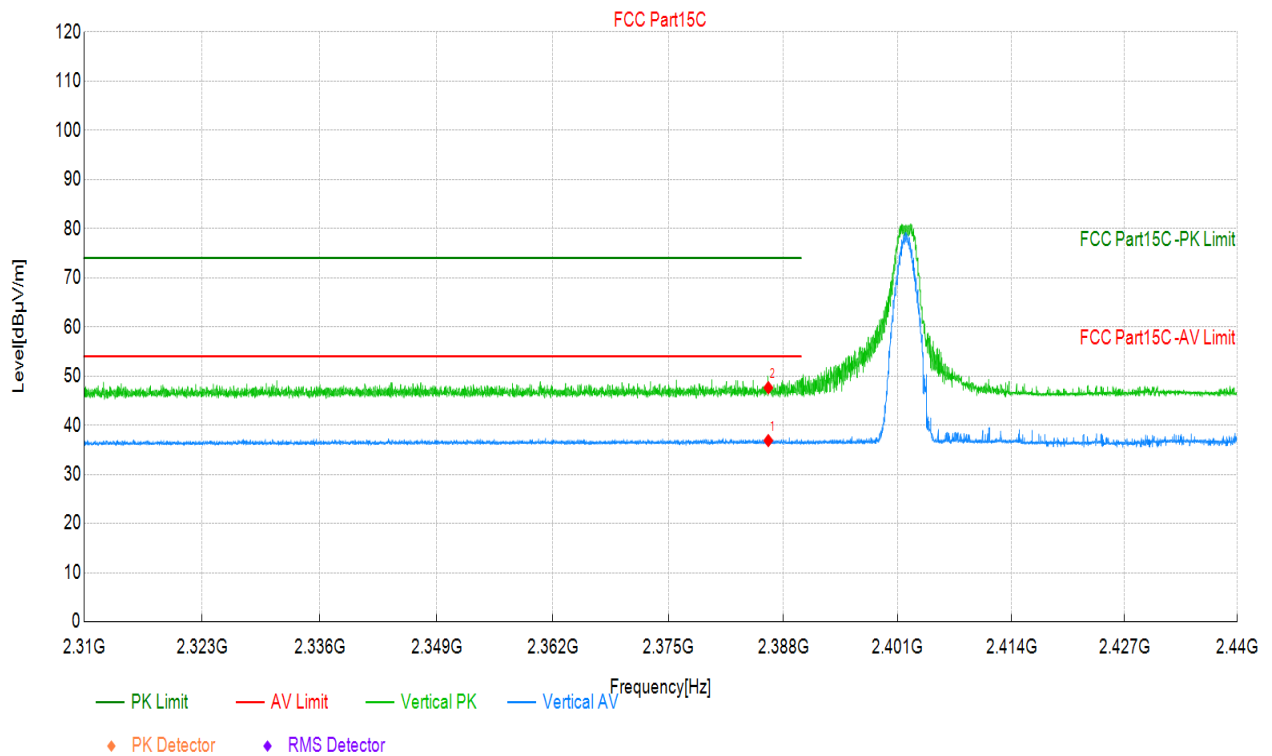
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.54	51.7	57.05	5.330	74.00	16.95	PK	Hori	PASS
2	2389.54	31.7	37.02	5.330	54.00	16.98	AV	Hori	PASS

Results

Radiated Emission Band Edge

2402MHz, 2Mbps

Antenna polarization-Vertical



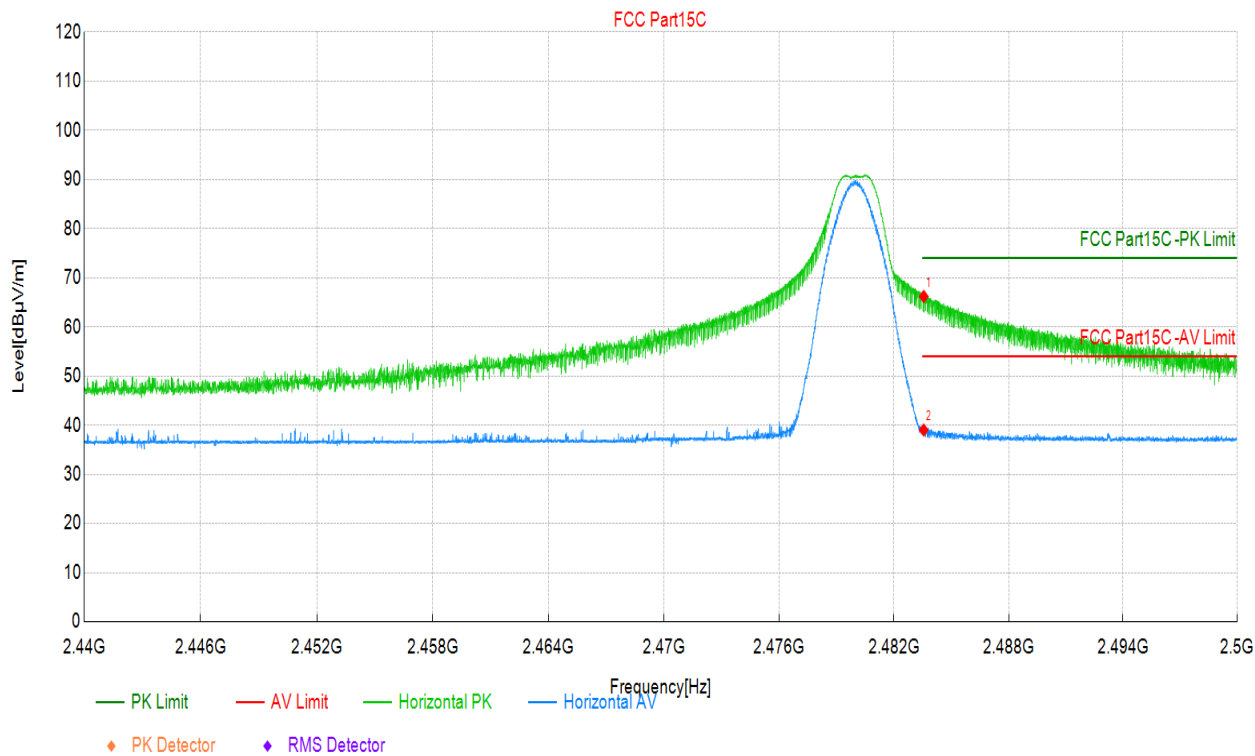
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.29	31.6	36.88	5.330	54.00	17.12	AV	Verti	PASS
2	2386.29	42.3	47.63	5.330	74.00	26.37	PK	Verti	PASS

Results

Radiated Emission Band Edge

2480MHz, 2Mbps

Antenna polarization-Horizontal



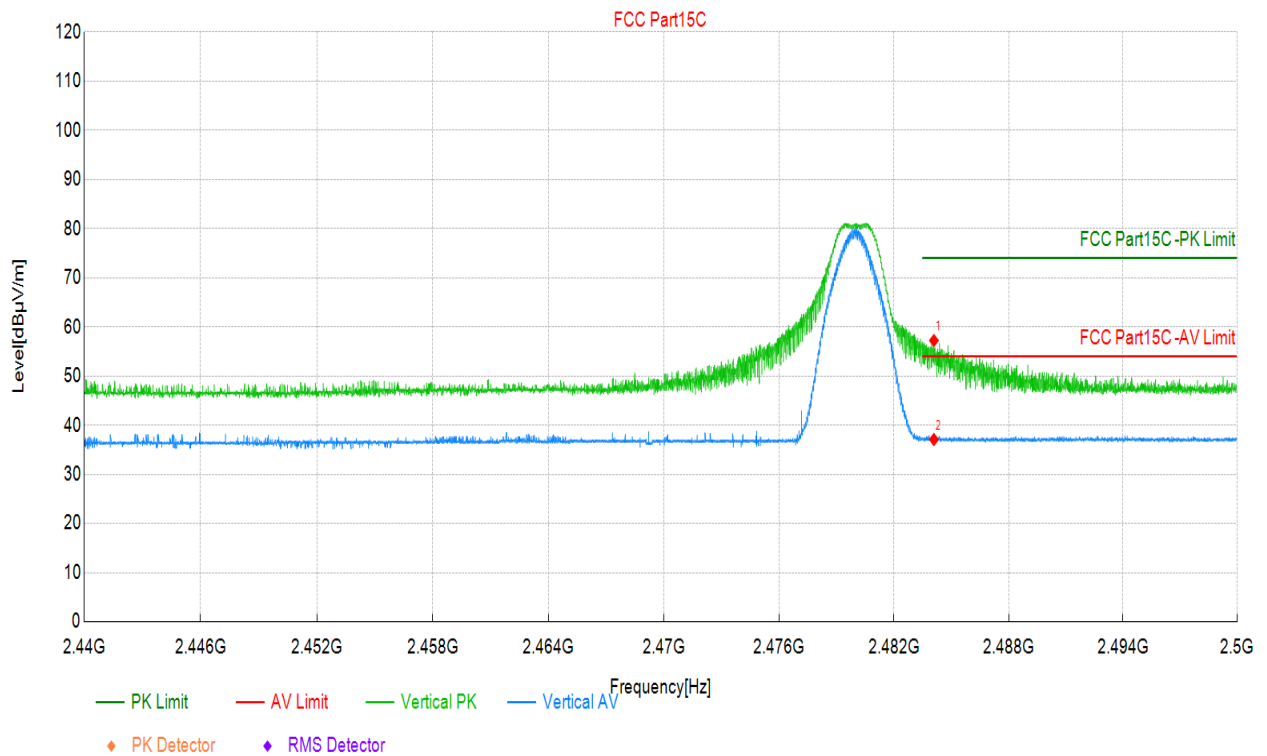
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.55	60.4	66.18	5.740	74.00	7.82	PK	Hori	PASS
2	2483.55	33.3	39.02	5.740	54.00	14.98	AV	Hori	PASS

Results

Radiated Emission Band Edge

2480MHz, 2Mbps

Antenna polarization-Vertical



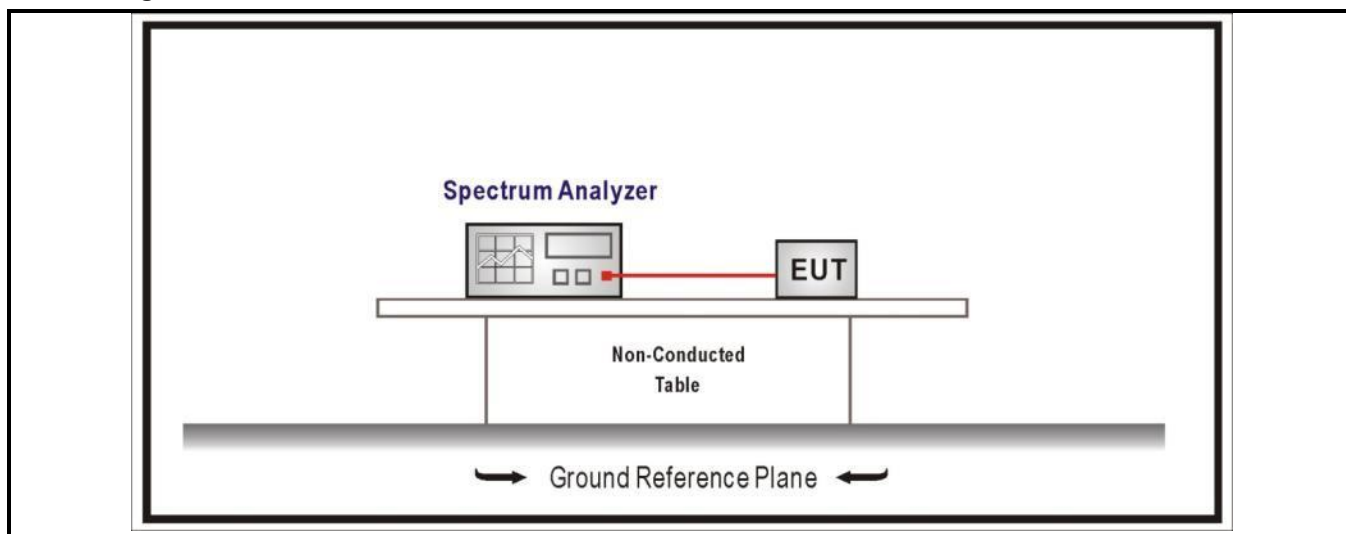
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2484.09	51.5	57.22	5.740	74.00	16.78	PK	Verti	PASS
2	2484.09	31.4	37.09	5.740	54.00	16.91	AV	Verti	PASS

4.5	DTS Bandwidth & Occupied Bandwidth	VERDICT: PASS
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Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2) RSS-247 Issue 4 Section 6.3.1(a)
Systems using digital modulation techniques operate in the 2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at least 500 kHz	
Standard	RSS-Gen Issue 5 Section 6.7 & RSS-247 Issue 3 Section 5.2(a)
The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. The occupied bandwidth should within the required frequency range.	
The minimum 6 dB bandwidth shall be 500 kHz.	

Test Configuration



Performed measurements

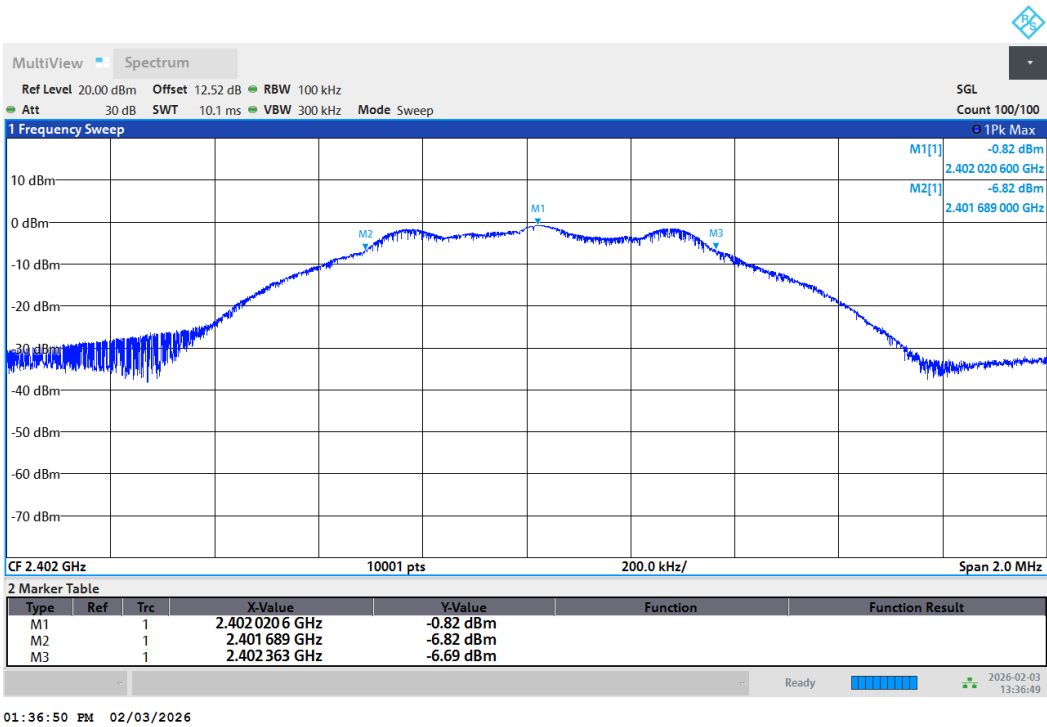
Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

Results

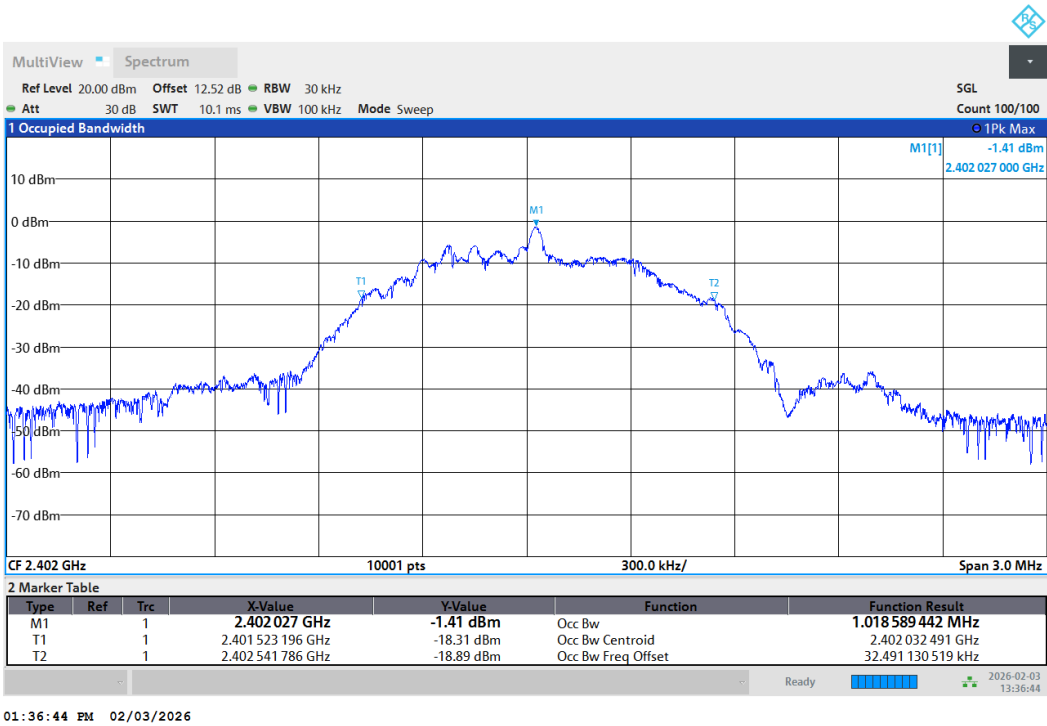
Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (MHz)	Result
BLE 1Mbps	00	2402	0.674	>0.5	Pass
	19	2440	0.676	>0.5	Pass
	39	2480	0.679	>0.5	Pass
BLE 2Mbps	00	2402	1.187	>0.5	Pass
	19	2440	1.187	>0.5	Pass
	39	2480	1.187	>0.5	Pass

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
BLE 1Mbps	00	2402	1.019	Within frequency range	Pass
	19	2440	1.019	Within frequency range	Pass
	39	2480	1.017	Within frequency range	Pass
BLE 2Mbps	00	2402	2.013	Within frequency range	Pass
	19	2440	2.008	Within frequency range	Pass
	39	2480	2.012	Within frequency range	Pass

DTS Bandwidth
2402MHz, 1Mbps

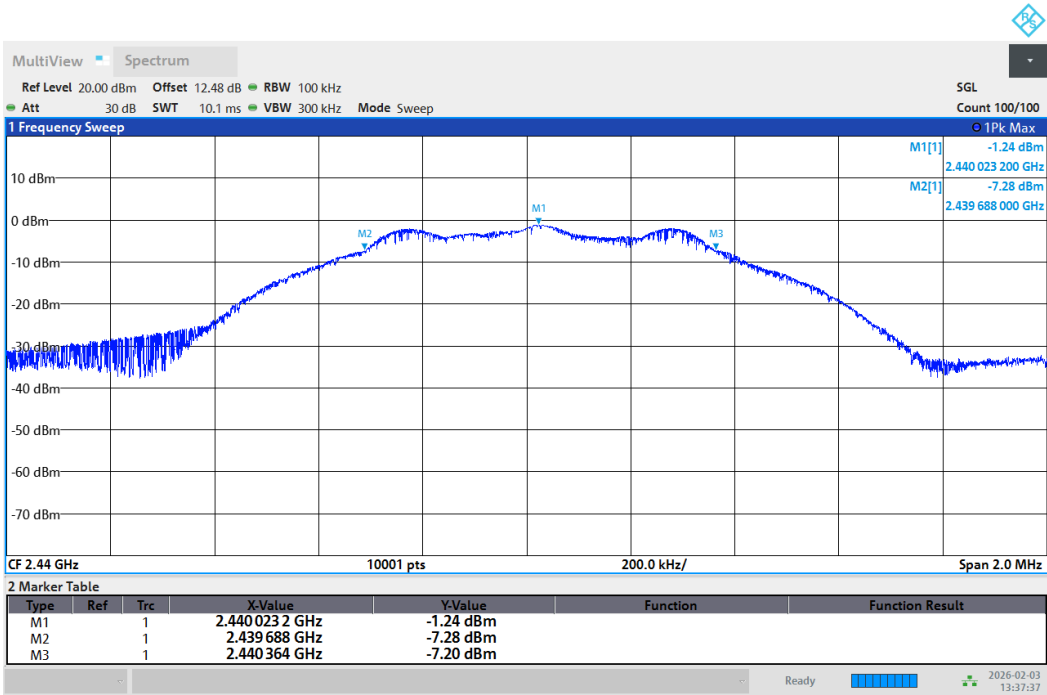


6dB Bandwidth



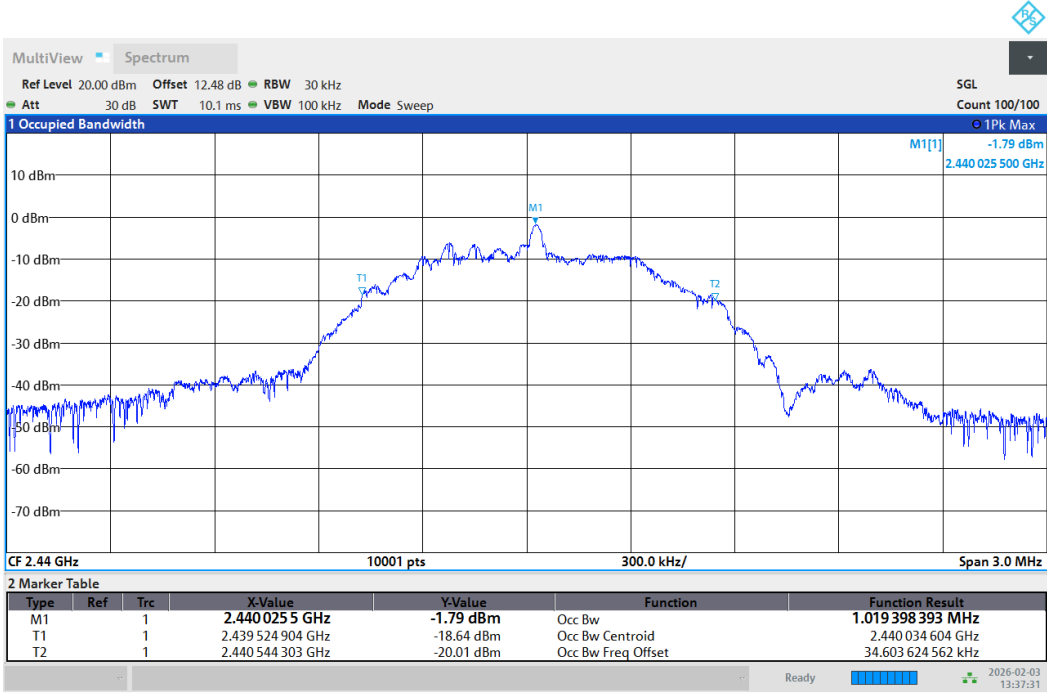
99% Occupied Bandwidth

2440MHz, 1Mbps



01:37:38 PM 02/03/2026

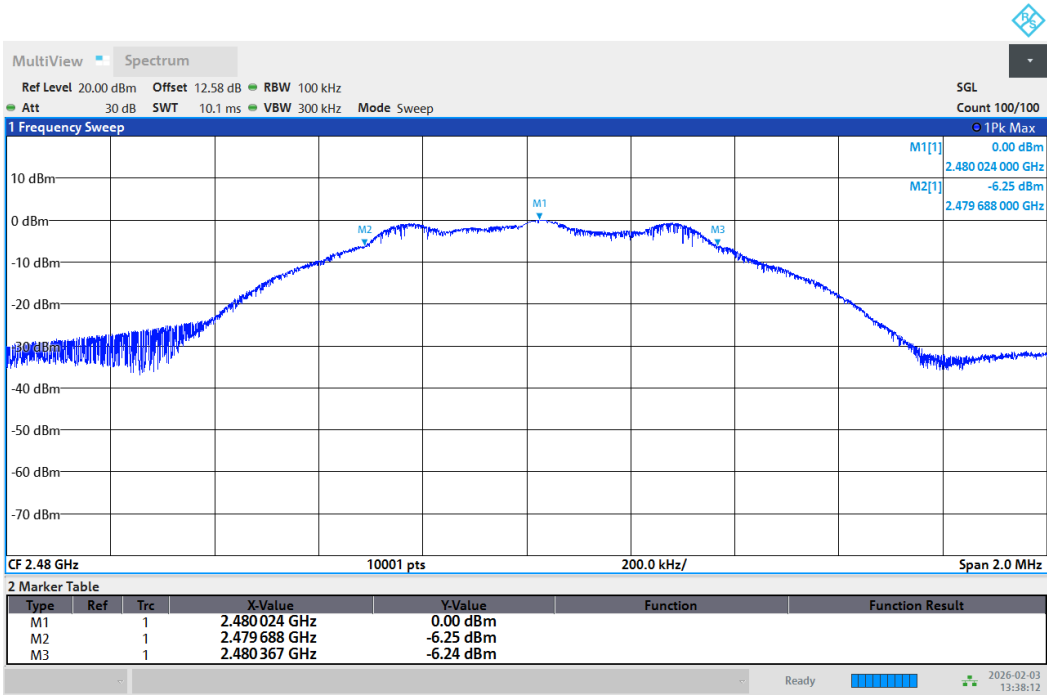
6dB Bandwidth



01:37:32 PM 02/03/2026

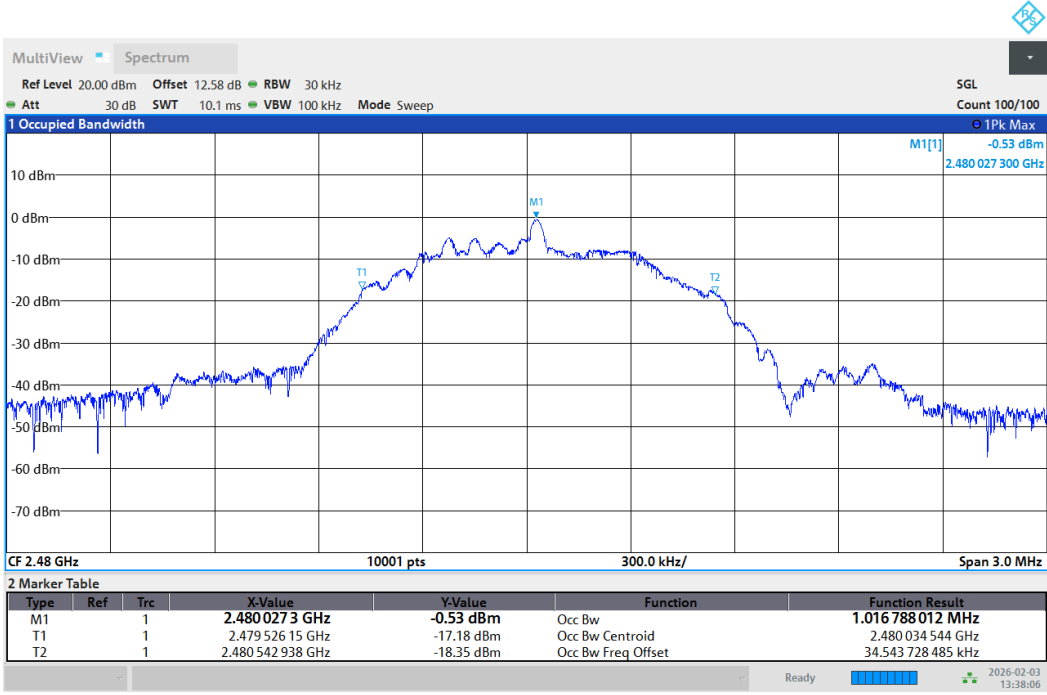
99% Occupied Bandwidth

2480MHz, 1Mbps



01:38:12 PM 02/03/2026

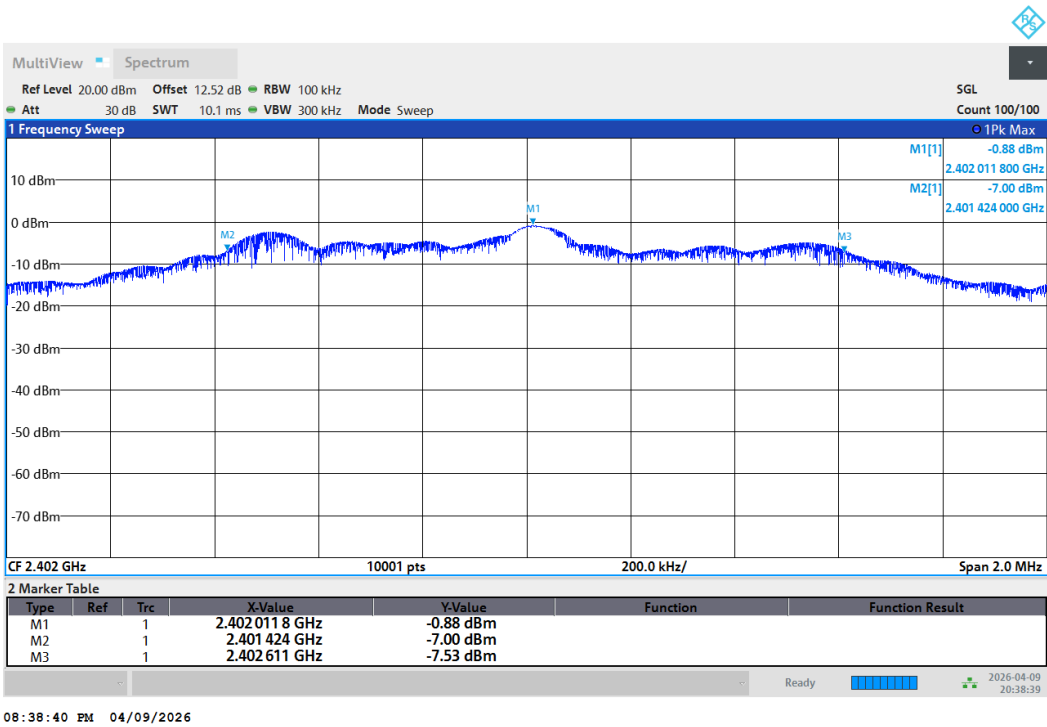
6dB Bandwidth



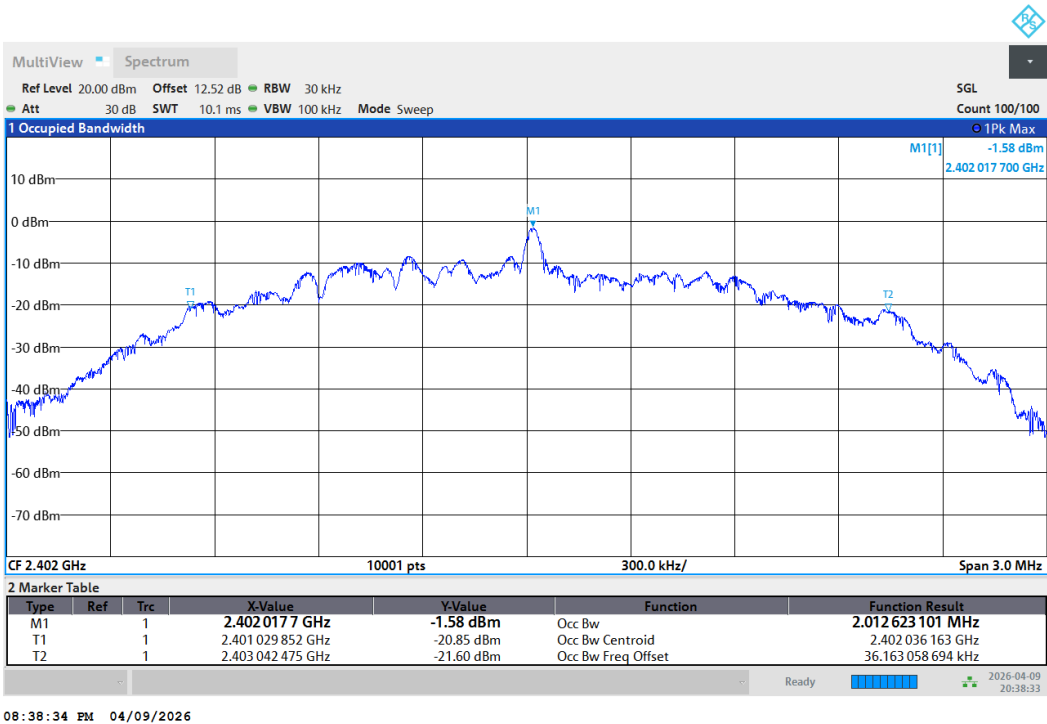
01:38:06 PM 02/03/2026

99% Occupied Bandwidth

DTS Bandwidth
2402MHz, 2Mbps

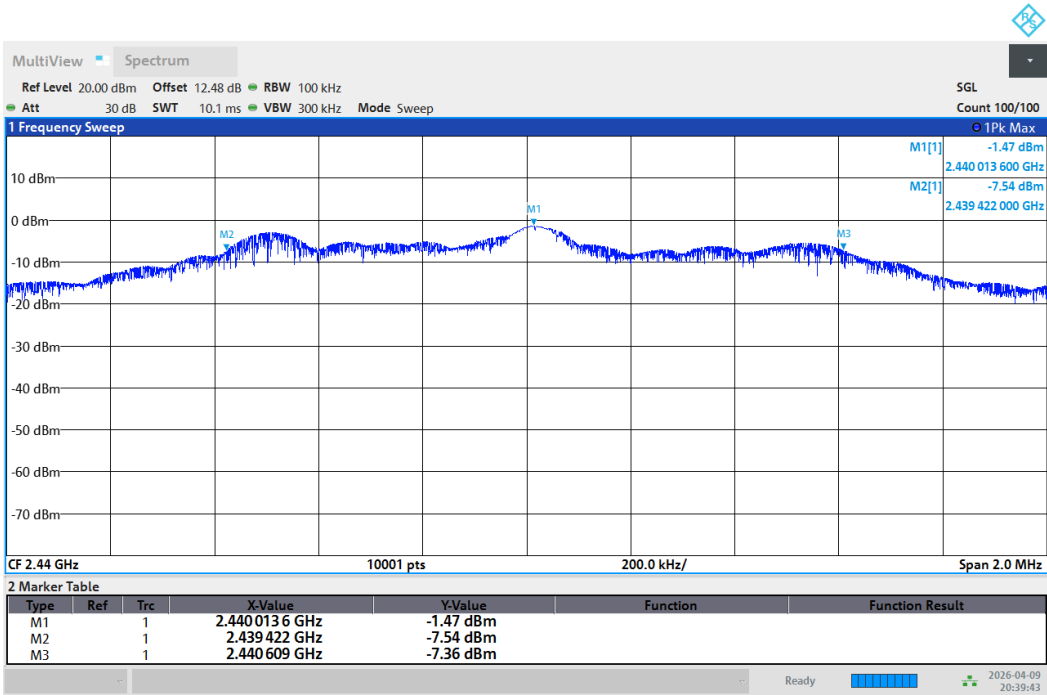


6dB Bandwidth



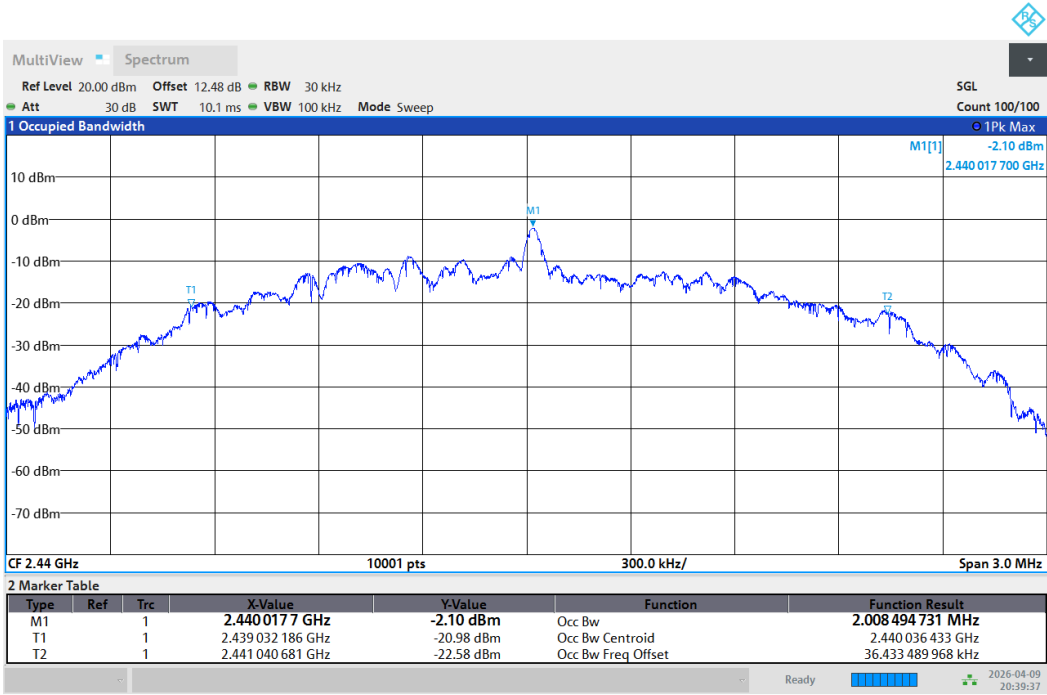
99% Occupied Bandwidth

2440MHz, 2Mbps



08:39:43 PM 04/09/2026

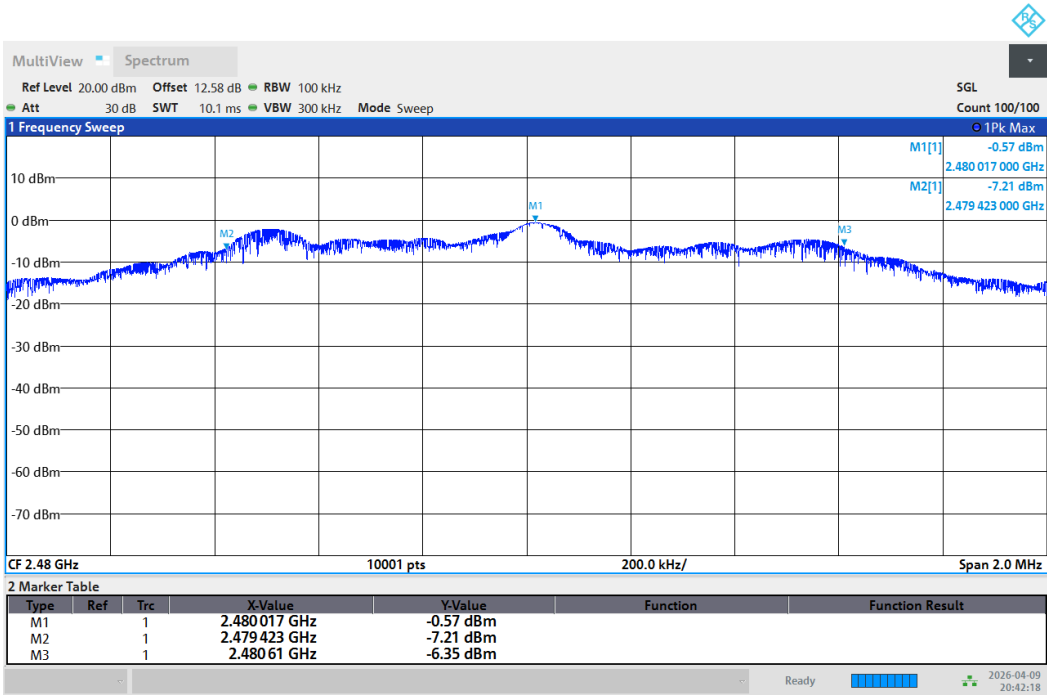
6dB Bandwidth



08:39:37 PM 04/09/2026

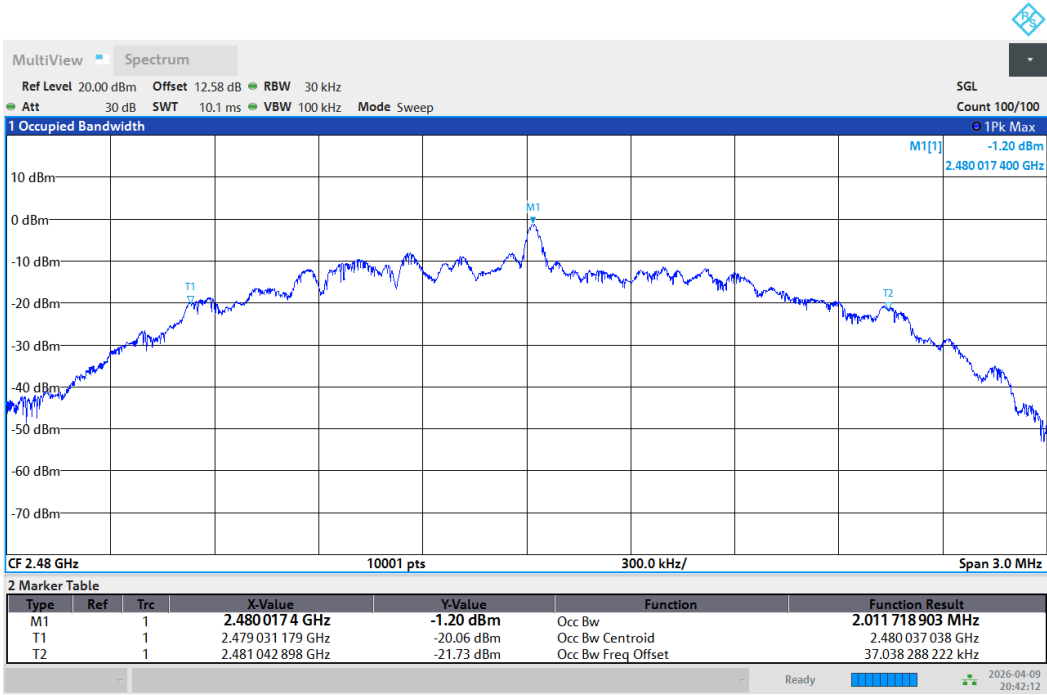
99% Occupied Bandwidth

2480MHz, 2Mbps



08:42:19 PM 04/09/2026

6dB Bandwidth



08:42:13 PM 04/09/2026

99% Occupied Bandwidth

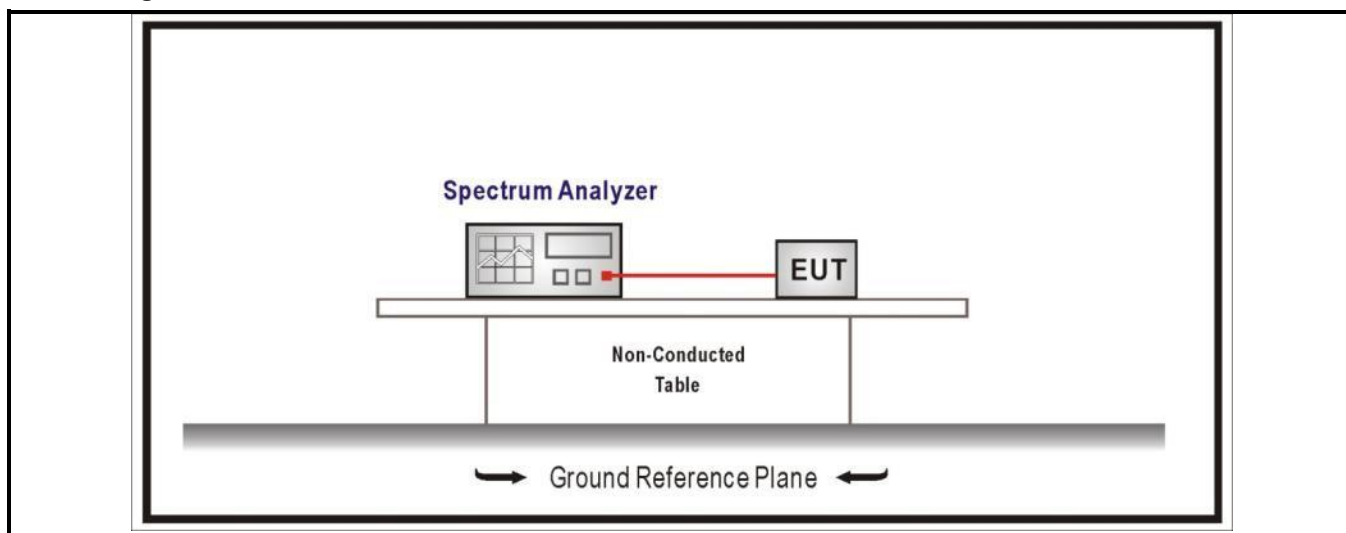
4.6	Fundamental emission output power	VERDICT: PASS
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Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3) & RSS-247 Issue 3 Section 5.4(d) RSS-247 Issue 4 Section 6.3.2
☒	GTX <6dBi	Pout≤30 dBm, EIRP≤36 dBm
☐	GTX >6dBi	
☐	Non-Fix point-point	Pout≤30-(GTX -6), EIRP≤36 dBm
☐	Fix point-point	Pout≤30-[(GTX-6)]/3, EIRP≤36 dBm
☐	Point-to-multipoint	Pout≤30-(GTX-6) , EIRP≤36 dBm
☐	Overlap Beams	Pout≤30-[(GTX-6)]/3, EIRP≤36 dBm
☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3, EIRP≤36 dBm
☐	single LE directional beam	Pout≤30-[(GTX-6)]/3+8 dB, EIRP≤36 dBm

Note 1 : GTX directional gain of transmitting antennas.
Note 2 : Pout is maximum peak conducted output power .
Note 3 : EIRP is equivalent isotropically radiated power.

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

See next page.

Results

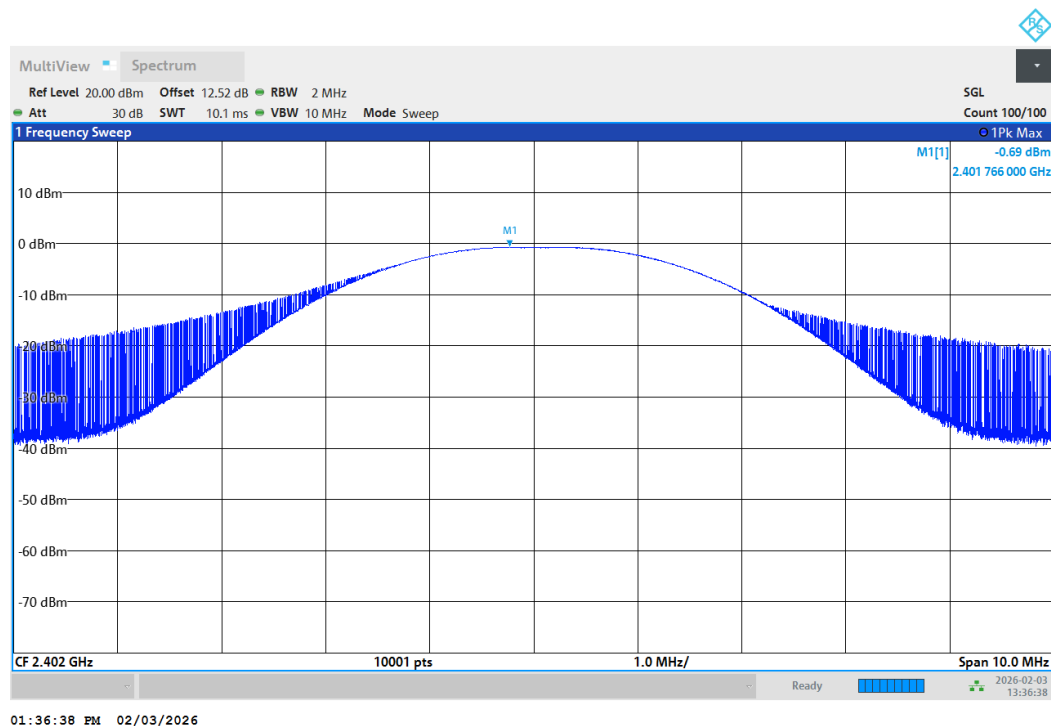
Mode	Channel	Test Frequency (MHz)	Output Power (dBm)	Output Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE 1Mbps	00	2402	-0.69	≤30	4.77	≤36	Pass
	19	2440	-1.12	≤30	4.34	≤36	Pass
	39	2480	0.13	≤30	5.59	≤36	Pass
BLE 2Mbps	00	2402	-0.78	≤30	4.68	≤36	Pass
	19	2440	-1.34	≤30	4.12	≤36	Pass
	39	2480	-0.45	≤30	5.01	≤36	Pass

Note: EIRP = Output Power + Antenna Gain

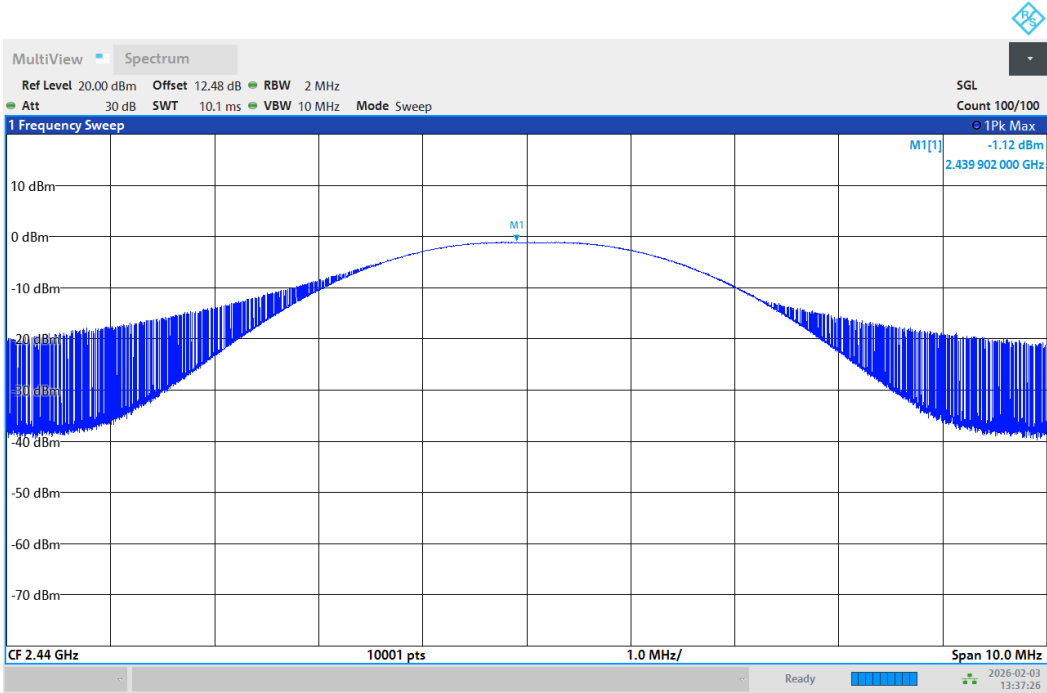
Antenna Gain: 5.46 dBi

Output Power

2402MHz, 1Mbps

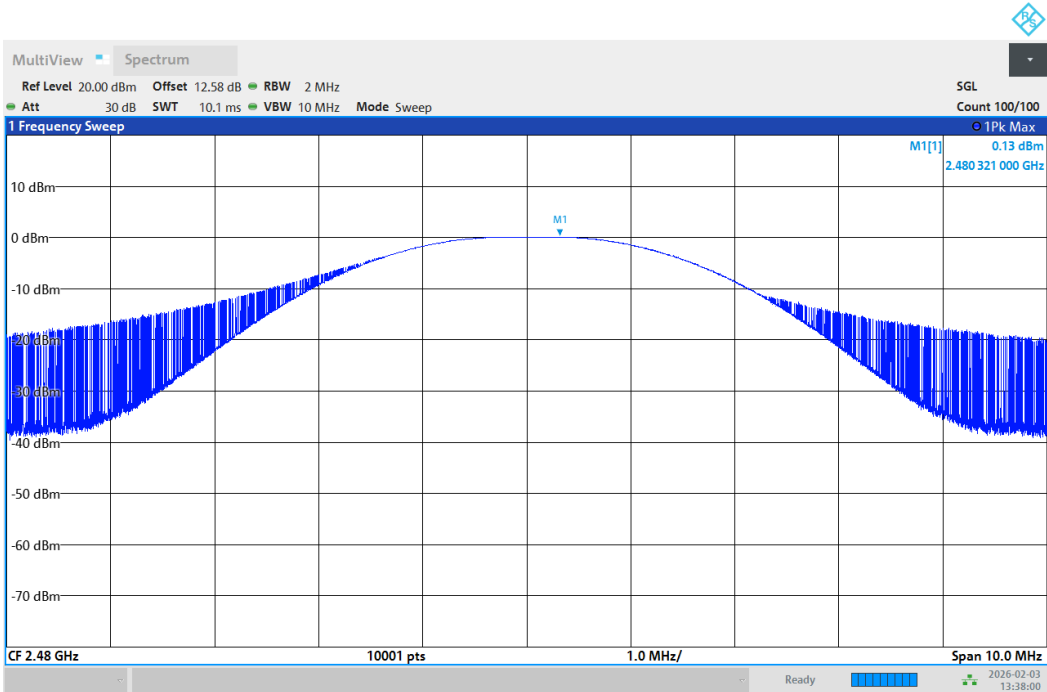


2442MHz, 1Mbps



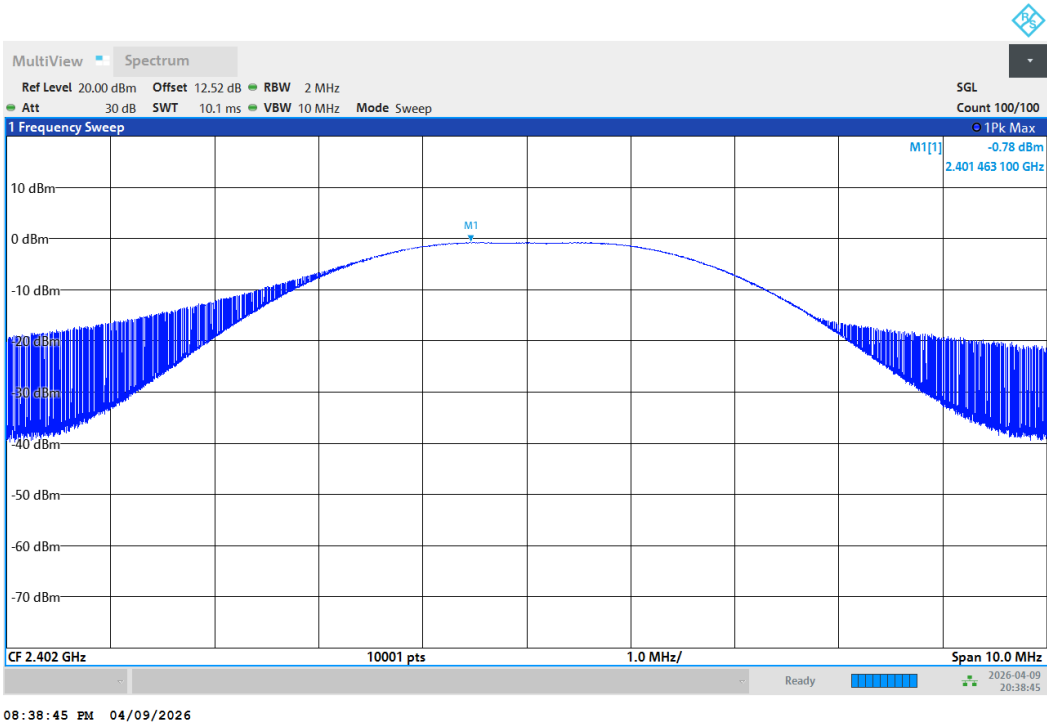
01:37:26 PM 02/03/2026

2480MHz, 1Mbps

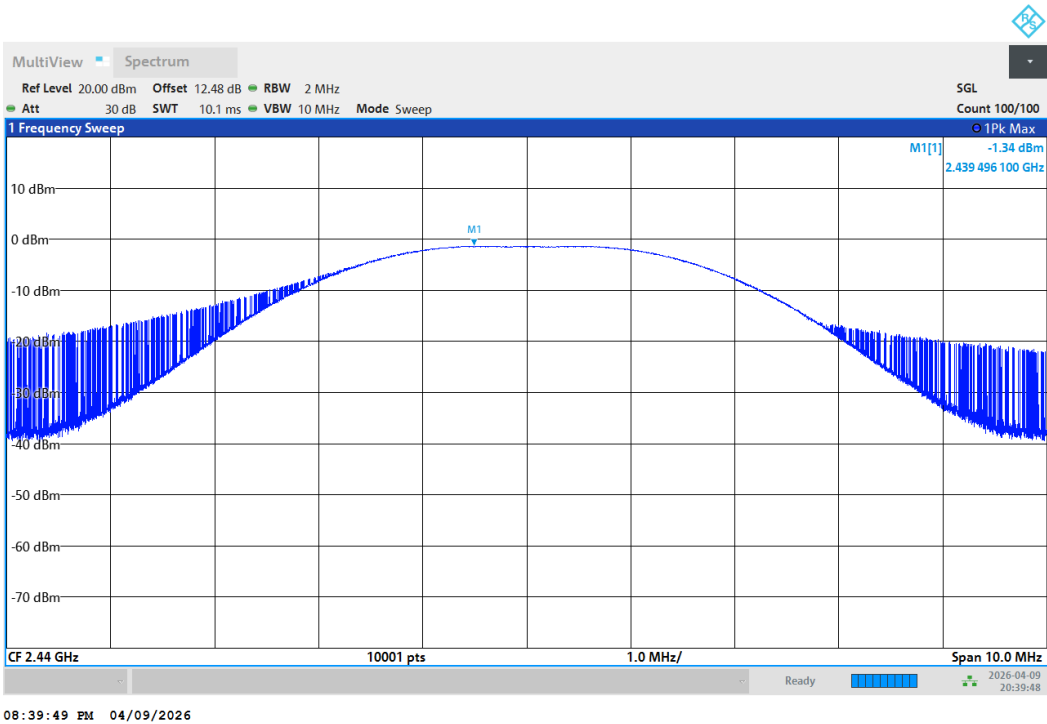


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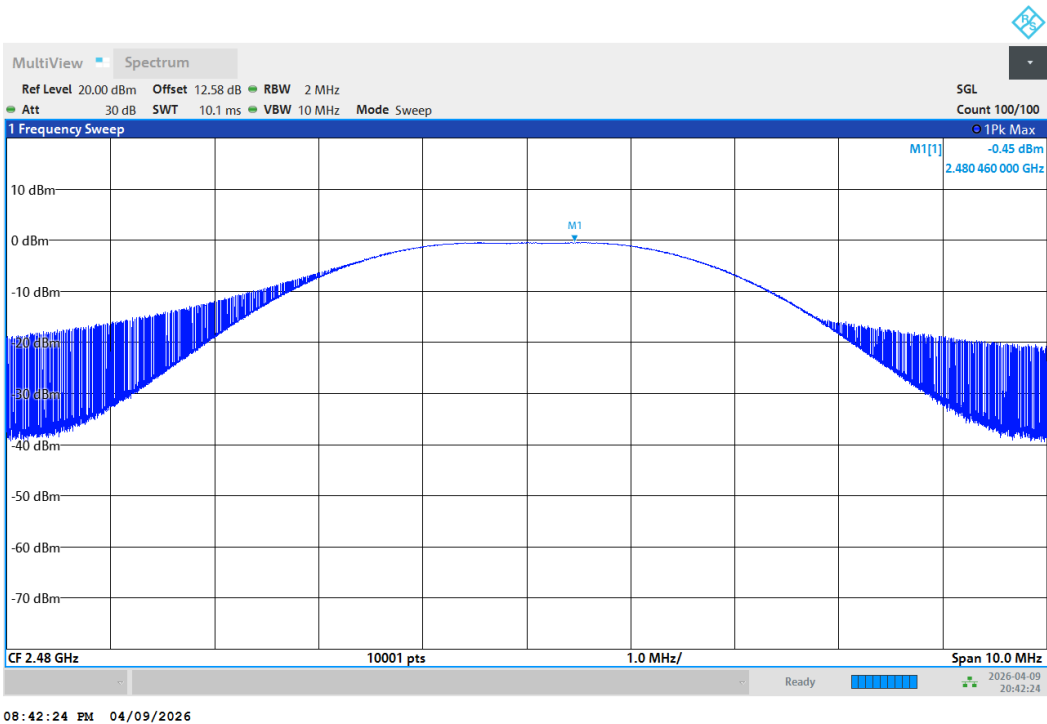
Output Power
2402MHz, 1Mbps



2442MHz, 2Mbps



2480MHz, 2Mbps

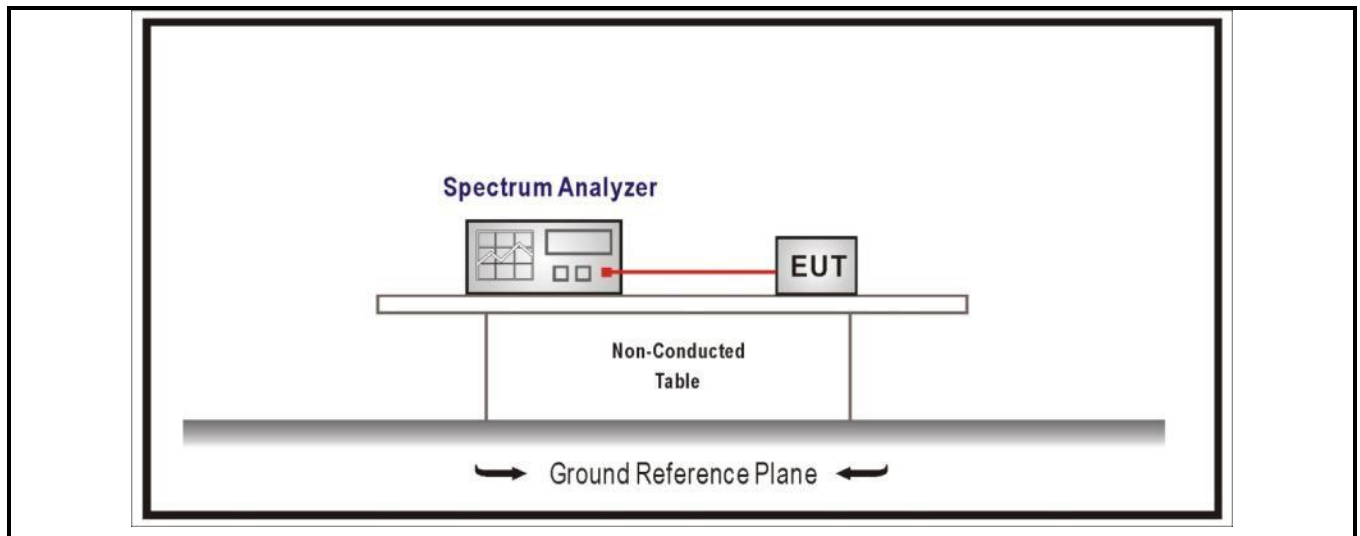


4.7	Power Spectral Density	VERDICT: PASS
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Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247 (e) & RSS-247 Issue 3 Section 5.2(b)
Power Spectral Density $\leq 8\text{dBm}/3\text{kHz}$	

Test Configuration



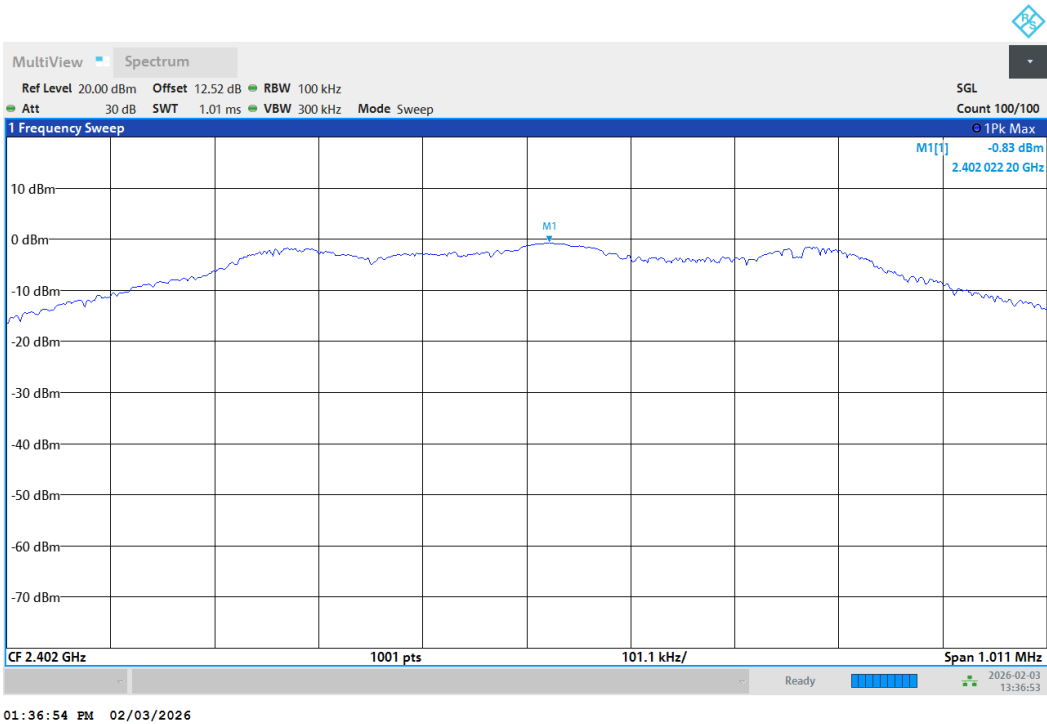
Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

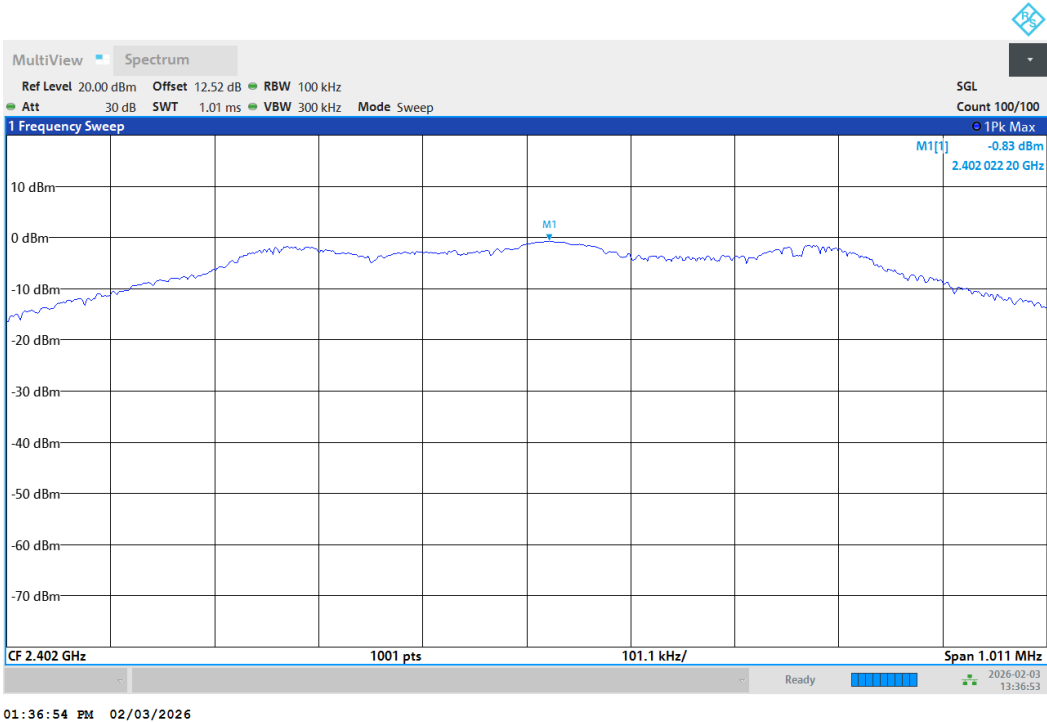
Results

Mode	Channel	Test Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result
BLE 1Mbps	00	2402	-0.83	≤ 8	Pass
	19	2440	-1.24	≤ 8	Pass
	39	2480	0	≤ 8	Pass
BLE 2Mbps	00	2402	-0.92	≤ 8	Pass
	19	2440	-1.48	≤ 8	Pass
	39	2480	-0.58	≤ 8	Pass

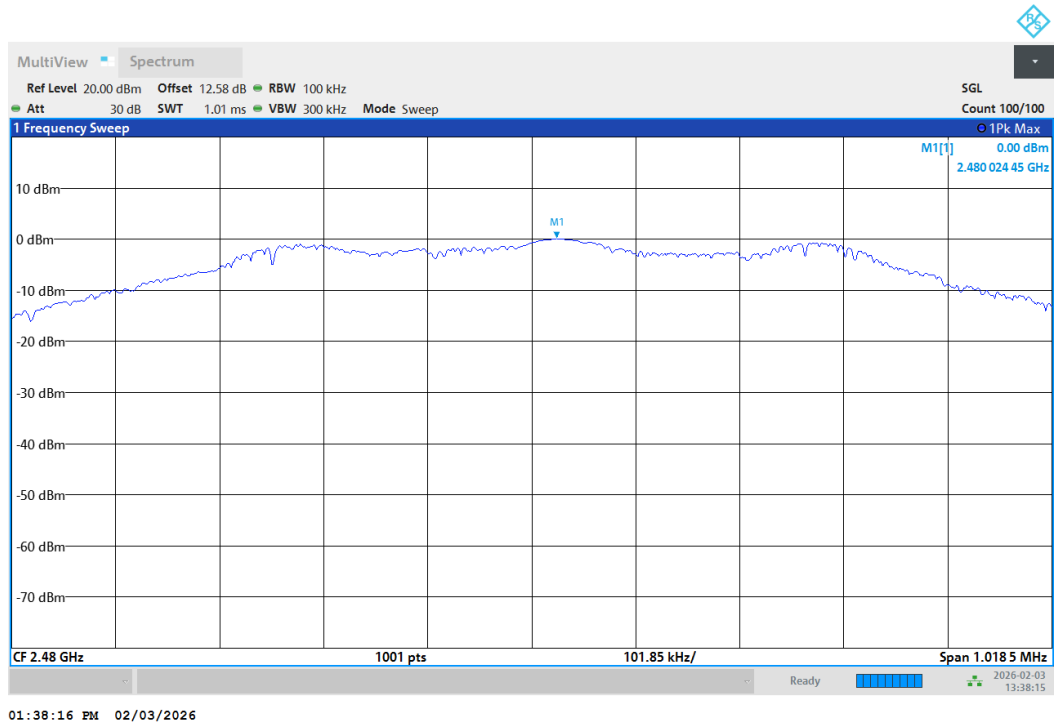
Power Spectral Density
2402MHz, 1Mbps



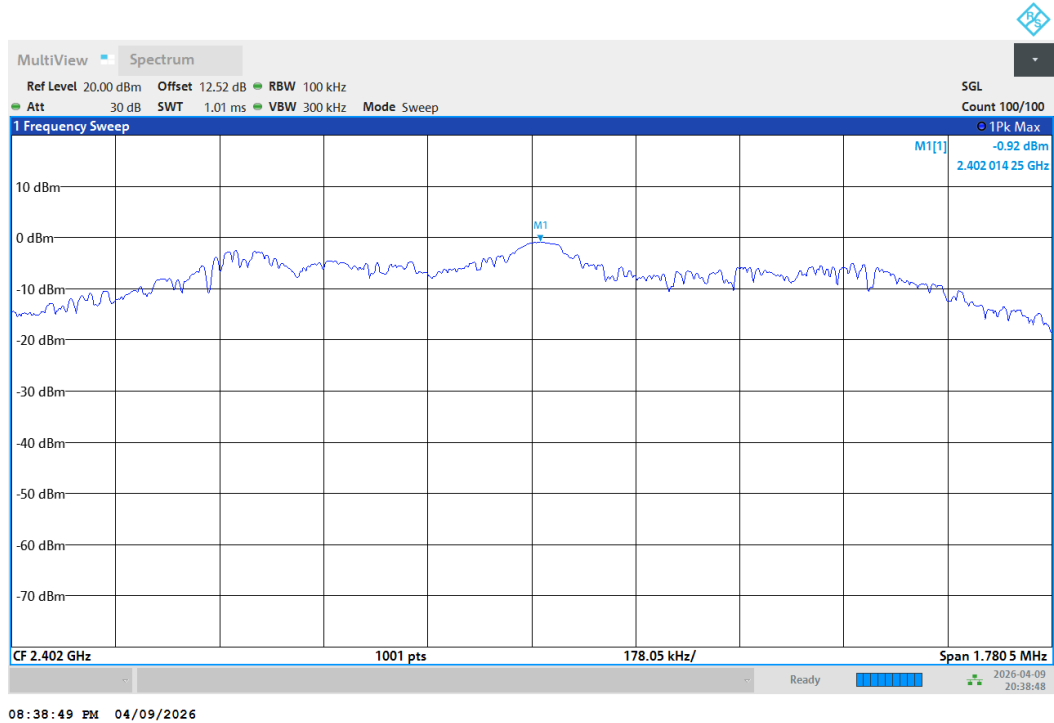
2440MHz, 1Mbps



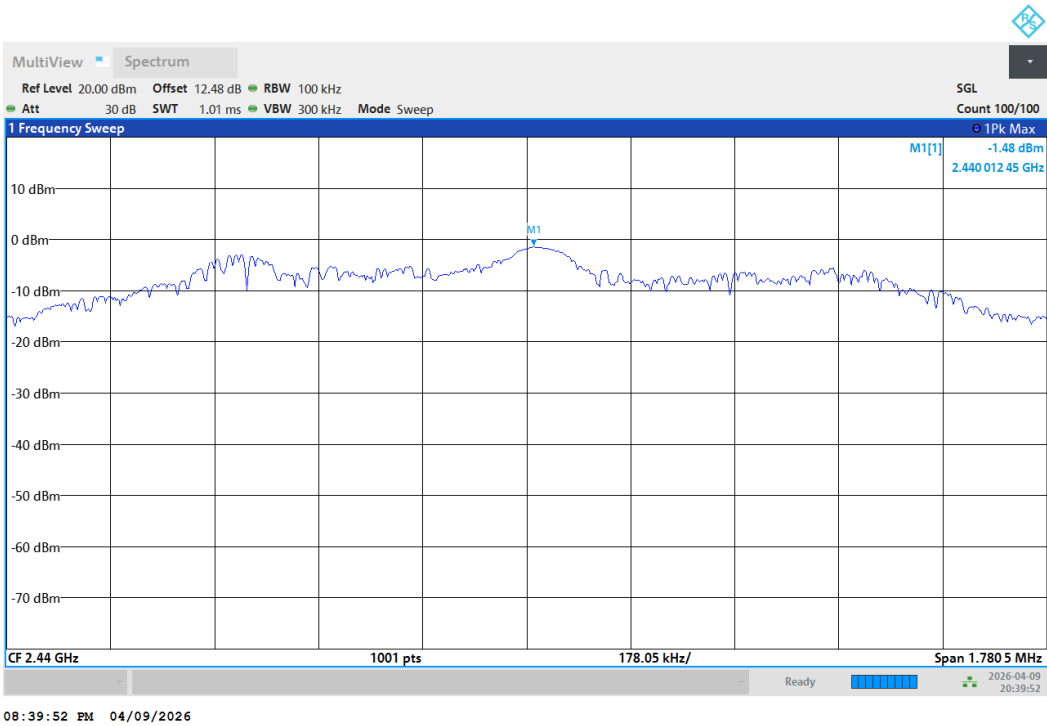
2480MHz, 1Mbps



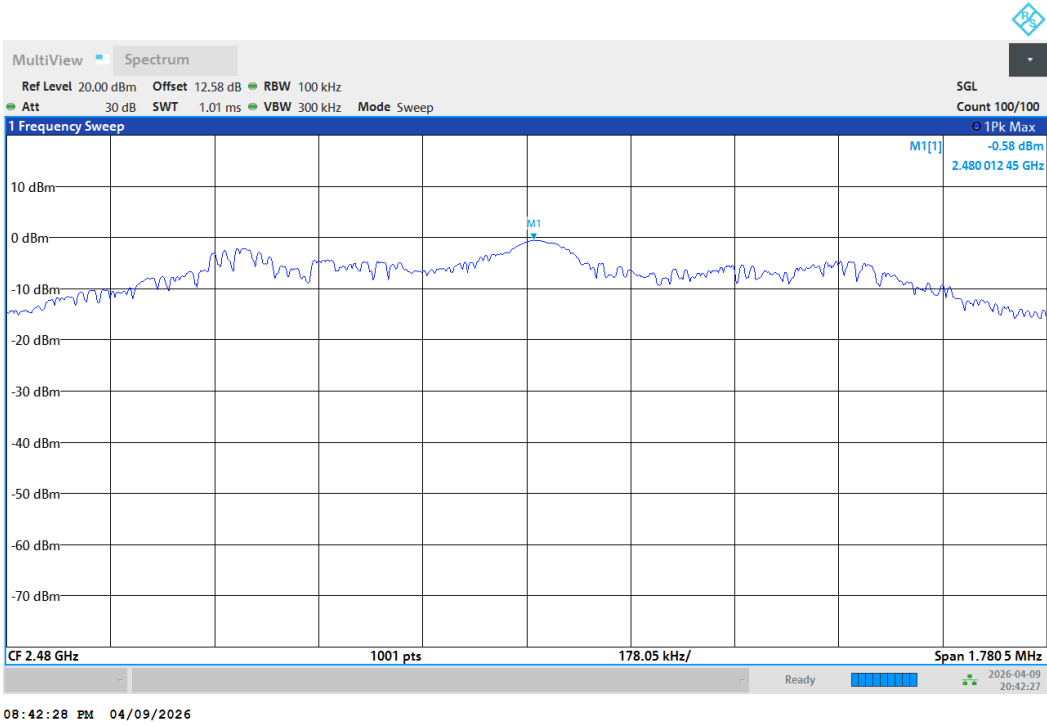
2402MHz, 2Mbps



2440MHz, 2Mbps



2480MHz, 2Mbps



4.8	Antenna Requirement	VERDICT: PASS
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Limit

Standard	FCC Part 15 Subpart C Paragraph 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	
Standard	RSS-Gen Issue 5 Section 6.8
A transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns.	

Antenna Connector Construction

☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document “Internal Photograph” to show the antenna connector.	

5 IDENTIFICATION OF THE EQUIPMENT UNDER TEST

Remark: The test setup photo and EUT Photo please see appendix.

ANNEX 1 – MEASUREMENT UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test Item		Uncertainty
AC Power Line Conducted Emission		2.7 dB
Radio frequency & Bandwidth		2 ppm
RF power, conducted		0.2 dB
Dwell Time		2.0 ms
Spurious emissions, radiated	(9 KHz~30 MHz)	2.3 dB
	(30 MHz~1 GHz)	Horizontal: 4.7 dB
		Vertical: 4.7 dB
	(1 GHz~8 GHz)	Horizontal: 4.7 dB
		Vertical: 4.8 dB
	(8 GHz~12.75 GHz)	Horizontal: 4.6 dB
		Vertical: 4.7 dB
	(12.75 GHz~18 GHz)	Horizontal: 4.4 dB
		Vertical: 4.8 dB
	(18 GHz~40 GHz)	Horizontal: 4.6 dB
Vertical: 4.7 dB		
Humidity		1.4 %
Temperature		0.5 °C

ANNEX 2 – USED EQUIPMENT

For Spurious Emissions Test

Equipment Name	Manufacturer	Type/Model	Serial Number	Cal Due date
WIDEBAND RADIO COMMUNICATION TESTER	ROHDE & SCHWARZ	CMW500	171082	2026/10/26
Signal & Spectrum Analyzer	ROHDE & SCHWARZ	FSV3044	101286	2026/10/26
Trilog Broadband antenna	Schwarzbeck	VULB9163	01514	2026/11/4
WAVE GUIDE ANTENNA	Schwarzbeck	3117	00240298	2026/11/11
Antenna	Schwarzbeck	QMS-00208	27745	2026/11/11
Antenna	Schwarzbeck	QMS-00880	27646	2026/11/11
Pre-Amplifier	ROHDE & SCHWARZ	SCU08F1	101136	2026/10/31
Pre-Amplifier	ROHDE & SCHWARZ	SCU18F	100971	2026/10/24
Pre-Amplifier	ROHDE & SCHWARZ	SCU18F	100970	2026/10/24
Pre-Amplifier	ROHDE & SCHWARZ	SCU40F1	100631	2026/10/24
Software	Tonscend	TS+	5.0.0	N/A

For other test items

Equipment Name	Manufacturer	Type/Model	Serial Number	Cal Due date
Vector signal generator	ROHDE & SCHWARZ	SMM100A	101780	2026/10/26
Open switch and control platform	ROHDE & SCHWARZ	OSP150	100856	2026/10/26
Signal and Spectrum analyzer	ROHDE & SCHWARZ	FSV3044	101287	2026/10/26
Wireless connectivity tester	ROHDE & SCHWARZ	CMW270	102651	2026/10/26
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMB100A	183222	2026/10/26
Software	MWRFTest	MTS 8310	2.0.0.0	N/A

--- END ---