TEST REPORT

Report No.	CISRR26041435902
Project No.	CISR260414359
FCC ID	2BFL4-JYD-BT90B
Applicant	Shenzhen Jiayouda Electronics Co.,Ltd
Address	711, Building C, Langkou Baoke Industrial Zone, Longhua District,Shenzhen City, China
Manufacturer	Shenzhen Jiayouda Electronics Co.,Ltd
Address	711, Building C, Langkou Baoke Industrial Zone, Longhua District,Shenzhen City, China
Product Name	Wireless Earphone
Trade mark	-
Model/Type reference	JYD-BT90B
Listed Model(s)	-
Standard	47 CFR Part 15.247
Date of sample receipt	April 16, 2026
Test date	April 16, 2026 to May 8, 2026
Issue date	May 8, 2026
Test result	**Complied**

Lucas Huang

Reviewed by: Lucas Huang

Hans Hu

Approved by: Hans Hu

The test results relate only to the tested samples.
The test report should not be reproduced except in full without the written approval of Shenzhen Bangce Testing Technology Co., Ltd.

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1. STANDARD AND APPLICABLE TEST METHODS

The tests were performed according to following standards:

47 CFR Part 15.247: 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.

2. REPORT VERSION

Version No.	Issue date	Description
00	May 8, 2026	Original

3. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Antenna Requirement	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
3	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR 15.247(e)	Pass
6	Conducted band edge and spurious emission	47 CFR 15.247(d)	Pass
7	Radiated band edge emission	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated Spurious Emission (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated Spurious Emission (Above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass

Note:

– The measurement uncertainty is not included in the test result.

4. SUMMARY

4.1. Product Description *

Main unit information:	
Product Name:	Wireless Earphone
Trade mark:	-
Model No.:	JYD-BT90B
Listed Model(s):	-
Model difference:	-
Power supply:	DC 5V
Hardware version:	-
Software version:	-
Accessory unit (AU) information:	
Battery information:	DC 3.7V

4.2. Radio Specification Description *

Modulation type:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	Chip antenna
Antenna gain:	4dBi

Note:

1) *: As the above information is provided by the applicant, all relevant results and conclusions of this report are based solely on such information. Bangce lab shall not be liable for the authenticity, integrity, and resulting outcomes of the information, and/or the validity of the conclusions herein.
2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474

7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

4.3. Modification of EUT

No modifications are made to the EUT during all test items.

4.4. Deviation from standards

None

4.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen，Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN1372

5. TEST CONFIGURATION

5.1. Test frequency list

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2402	2440	2480

5.2. Descriptions of test mode

No	Test mode	Description
TM1	TX mode	Keep the EUT in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.
TM2	Link mode	Keep the EUT in Bluetooth linking mode with AE.
TM3	Charging mode	Keep the EUT in charging mode status

5.3. Test sample information

Type	Sample No.
Engineer sample	CISR260414359-S01
Normal sample	CISR260414359-S02

5.4. Environmental conditions

Type	Requirement
Temperature:	15~35°C
Relative Humidity:	25~75%
Air Pressure:	860~1060mbar

5.5. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted Emission at AC power line (150kHz ~ 30MHz)	3.52dB
2	Bandwidth	0.19%
3	Conducted output power	1.38dB
4	Power spectral density	1.39dB
5	Conducted spurious emission	1.40dB
6	Radiated Spurious Emission (Above 1GHz)	4.60dB
7	Radiated Spurious Emission (9kHz ~ 30MHz)	3.28dB
8	Radiated Spurious Emission (30MHz ~ 1000MHz)	4.46dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

5.6. Equipment Used during the Test

Conducted Emission at AC power line

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	8*4*3 Shielding room	SKET	8m*4m*3 m	CIS-EE012	2024-09-02	2027-09-01
2	EMI Test Receiver	ROHDE&SCHWARZ	ESPI7	CIS-EE043	2026-01-06	2027-01-05
3	LISN	SCHWARZBECK	NSLK 8127	CIS-EE044	2026-01-06	2027-01-05
4	LISN-AE	ETS	3810/2NM	CIS-EE075	2026-01-06	2027-01-05
5	RF Cable	SKET	-	CIS-EE071	2026-01-06	2027-01-05
6	Power Strip	BULL	GNIN-413	CIS-EE087	2026-01-06	2027-01-05
7	Test software	FARAD	EZ-CON	CIS-EE095	/	/
8	Thermohygrometer	DeLi	8866	CIS-EE069	2026-01-06	2027-01-05

Emissions in non-restricted frequency bands
6dB Bandwidth
Maximum Conducted Output Power
Power Spectral Density

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Spectrum analyzer	ROHDE&SCHWARZ	FSV-40N	CIS-EE076	2026-01-06	2027-01-05
2	Notch Filter Assembly	WCS	SMU-1003	CIS-EE093	2026-01-06	2027-01-05
3	Vector Signal Generator	Agilent	N5182A	CIS-RE012	2026-01-06	2027-01-05
4	Analog Signal Generator	Agilent	N5181A	CIS-RE013	2026-01-06	2027-01-05
5	Test software	WCS	WCN-Regulatory	CIS-EE103	/	/

Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	9*6*6 Chamber	SKET	9m*6m*6 m	CIS-EE011	2024-09-02	2027-09-01
2	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	CIS-EE016	2026-01-06	2027-01-05
3	Broadband Antenna	SCHWARZBECK	VULB 9163	CIS-EE018	2026-01-06	2029-01-05
4	Double Ridged Broadband Horn	SCHWARZBECK	BBHA 9120D	CIS-EE019	2026-01-06	2029-01-05

	Antennas					
5	Preamplifier	Tonscend	TAP9K3G40	CIS-EE021	2026-01-06	2027-01-05
6	Preamplifier	Tonscend	TAP01018050	CIS-EE022	2026-01-06	2027-01-05
7	Preamplifier	WCS	DLNA-1-18G-40	CIS-EE081	2026-01-06	2027-01-05
8	RF Cable	Tonscend	-	CIS-EE024	2026-01-06	2027-01-05
9	RF Cable	Tonscend	-	CIS-EE025	2026-01-06	2027-01-05
10	Test software	FARAD	EZ-EMC RE	CIS-EE097	/	/
11	Thermohygrometer	DeLi	8866	CIS-EE067	2026-01-06	2027-01-05
12	Loop Antenna	SCHWARZBECK	FMZB 1513-60 B	CIS-EE060	2026-01-06	2029-01-05
13	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	CIS-EE020	2025-01-09	2028-01-08
14	Preamplifier	Tonscend	TAP18040048	CIS-EE023	2026-01-06	2027-01-05
15	1GHz Highpass	COM-MW	ZHPF6-M1000-18000-3910	CIS-EEA043	2026-01-06	2027-01-05
16	3GHz Highpass	COM-MW	ZHPF6-M3000-18000-5254	CIS-EEA044	2026-01-06	2027-01-05
17	6GHz Highpass	COM-MW	ZHPF6-M6500-18000-547	CIS-EEA045	2026-01-06	2027-01-05
18	Notch Filter Assembly	Tonscend	TS@JS0806-F	CIS-EE026	2026-01-06	2027-01-05
19	Spectrum analyzer	Agilent	N9020A	CIS-RE001	2026-01-06	2027-01-05

6. TEST RESULTS

6.1. Evaluation Results (Evaluation)

6.1.1. Antenna Requirement

Test Requirement:	Refer to 47 CFR Part 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.
Test Method:	---

6.1.1.1. Test Result

Pass

6.1.1.2. Conclusion:

The EUT antenna is Chip antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.Antenna structure please refer to the EUT internal photographs antenna photo.

6.2. Radio Spectrum Matter Test Results (RF)

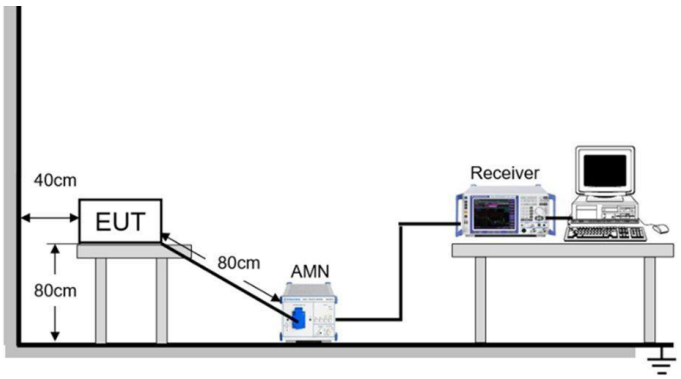
6.2.1. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	ANSI C63.10-2020 section 6.2 ANSI C63.10-2020+Cor.1-2023 section 6.2
Procedure:	1>. The EUT was setup according to ANSI C63.10 requirements. 2>. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. 3>. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. 4>. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs) 5>. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. 6>. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. 7>. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz. 8>. During the above scans, the emissions were maximized by cable manipulation. Refer to ANSI C63.10-2020+Cor.1-2023 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

6.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	21.7 °C	Humidity:	68.3 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	TM3				
Final test mode:	TM3				

6.2.1.2. Test Setup Diagram

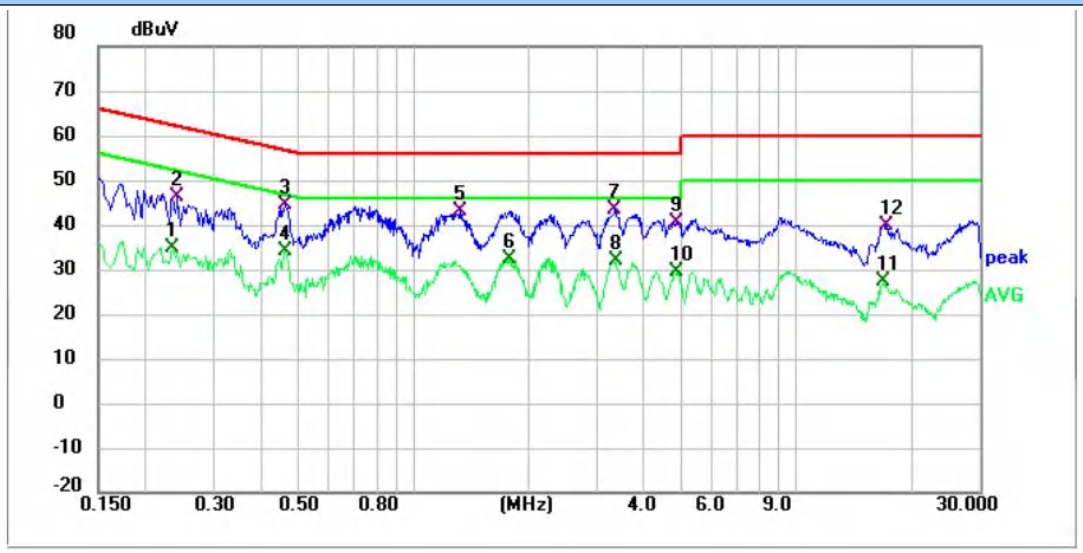


6.2.1.3. Test Result

Pass

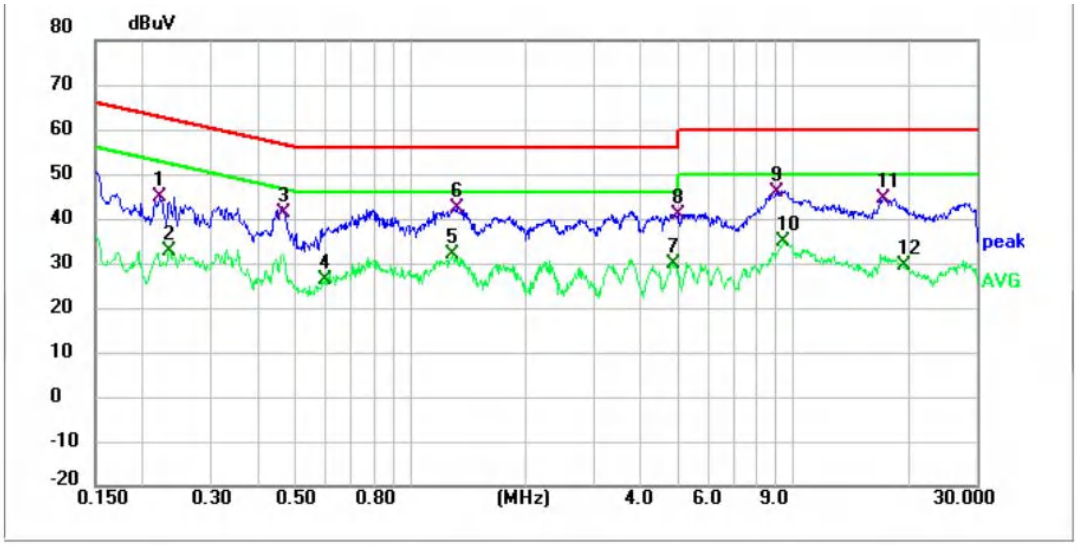
6.2.1.4. Test Data

Mode3 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2340	24.64	10.17	34.81	52.31	17.50	AVG
2	0.2420	36.08	10.16	46.24	62.03	15.79	QP
3 *	0.4620	34.37	10.15	44.52	56.66	12.14	QP
4	0.4620	23.89	10.15	34.04	46.66	12.62	AVG
5	1.3220	32.78	10.21	42.99	56.00	13.01	QP
6	1.7820	22.01	10.25	32.26	46.00	13.74	AVG
7	3.3500	32.90	10.33	43.23	56.00	12.77	QP
8	3.3780	21.70	10.33	32.03	46.00	13.97	AVG
9	4.8580	30.10	10.38	40.48	56.00	15.52	QP
10	4.8580	18.94	10.38	29.32	46.00	16.68	AVG
11	16.8700	16.65	10.65	27.30	50.00	22.70	AVG
12	17.1340	29.31	10.68	39.99	60.00	20.01	QP

Mode3 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2220	34.66	10.17	44.83	62.74	17.91	QP
2	0.2340	22.64	10.17	32.81	52.31	19.50	AVG
3	0.4660	31.19	10.15	41.34	56.58	15.24	QP
4	0.5940	15.99	10.17	26.16	46.00	19.84	AVG
5	1.2900	21.82	10.21	32.03	46.00	13.97	AVG
6 *	1.3220	32.28	10.21	42.49	56.00	13.51	QP
7	4.8580	19.44	10.38	29.82	46.00	16.18	AVG
8	4.9899	30.64	10.38	41.02	56.00	14.98	QP
9	9.0500	35.36	10.37	45.73	60.00	14.27	QP
10	9.3900	24.62	10.37	34.99	50.00	15.01	AVG
11	17.2300	33.86	10.69	44.55	60.00	15.45	QP
12	19.3300	18.66	10.89	29.55	50.00	20.45	AVG

Note:
1>. Level = Reading +Factor (Voltage Division Coefficient + Cable Loss + Attenuator Factor)
2>. Margin = Limit - Level

6.2.2. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 ANSI C63.10-2020+Cor.1-2023, section 11.8
Procedure:	**11.8.1 Option 1** The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−6 dB down amplitude". If a marker is below this "−6 dB down amplitude" value, then it shall be as close as possible to this value. **11.8.2 Option 2** The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB. 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−6 dB down amplitude". If a marker is below this "−6 dB down amplitude" value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.5 °C	Humidity:	55.5 %	Atmospheric Pressure:	102.6 kPa

Pre test mode:	TM1
Final test mode:	TM1

6.2.2.2. Test Setup Diagram

6.2.2.3. Test Result

Pass

6.2.2.4. Test Data

Please Refer to Appendix for Details.

6.2.3. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 ANSI C63.10-2020+Cor 1-2023 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power ANSI C63.10-2020+Cor 1-2023, section 11.9.1 Maximum peak conducted output power

6.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.5 °C	Humidity:	55.6 %	Atmospheric Pressure:	102.6 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.2.3.2. Test Setup Diagram

6.2.3.3. Test Result

Pass

6.2.3.4. Test Data

Please Refer to Appendix for Details.

6.2.4. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 ANSI C63.10-2020+Cor 1-2023, section 11.10
Procedure:	ANSI C63.10-2020+Cor 1-2023, section 11.10, Maximum power spectral density level in the fundamental emission ANSI C63.10-2020+Cor 1-2023, section 11.10, Maximum power spectral density level in the fundamental emission

6.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.2 °C	Humidity:	55.8 %	Atmospheric Pressure:	102.6 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.2.4.2. Test Setup Diagram

6.2.4.3. Test Result

Pass

6.2.4.4. Test Data

Please Refer to Appendix for Details.

6.2.5. Conducted band edge and spurious emission

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 ANSI C63.10-2020+Cor 1-2023 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3 ANSI C63.10-2020+Cor 1-2023 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.8 %	Atmospheric Pressure:	102.6 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.2.5.2. Test Setup Diagram

6.2.5.3. Test Result

Pass

6.2.5.4. Test Data

Please Refer to Appendix for Details.

6.2.6. Radiated band edge emission

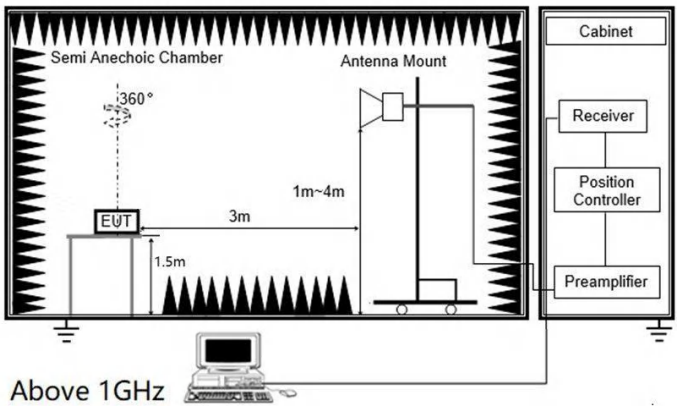
<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.10
ANSI C63.10-2020+Cor 1-2023 section 6.10</td></tr>
<tr><td>Procedure:</td><td>1>. EUT was setup and tested according to ANSI C63.10 .
2>. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3>. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4>. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5>. Use the following spectrum analyzer settings:
a) Span shall wide enough to fully capture the emission being measured
b) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
For average measurement: use duty cycle correction factor method (DCCF), Average level = Peak level + DCCF

ANSI C63.10-2020+Cor 1-2023 section 6.10.5.2</td></tr>
</table>

6.2.6.1. E.U.T. Operation

<table>
<tr><td colspan="6">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>22.2 °C</td><td>Humidity:</td><td>55.6 %</td><td>Atmospheric Pressure:</td><td>102.4 kPa</td></tr>
<tr><td colspan="2">Pre test mode:</td><td colspan="4">TM1, TM2</td></tr>
<tr><td colspan="2">Final test mode:</td><td colspan="4">All of the listed pre-test mode were tested, only the data of the worst mode (TM1) is recorded in the report</td></tr>
</table>

6.2.6.2. Test Setup Diagram



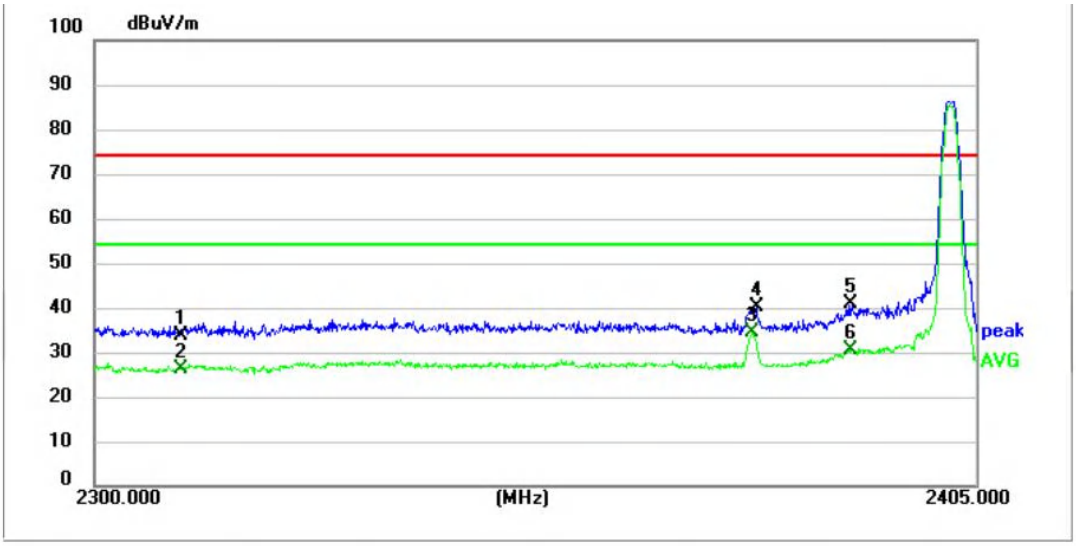
6.2.6.3. Test Result

Pass

6.2.6.4. Test Data

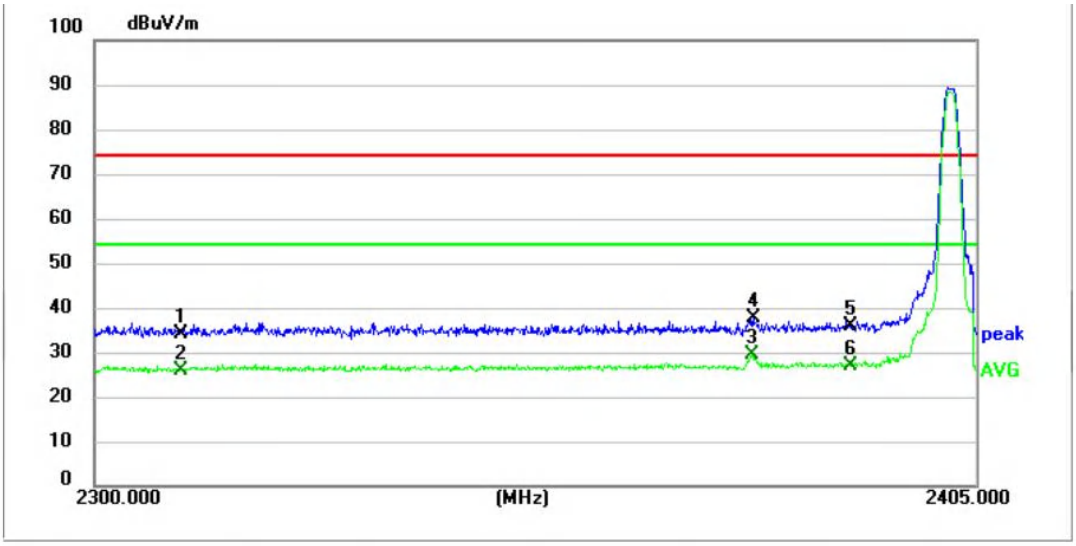
Ant0:

Mode1 / Polarization: Horizontal / CH: L



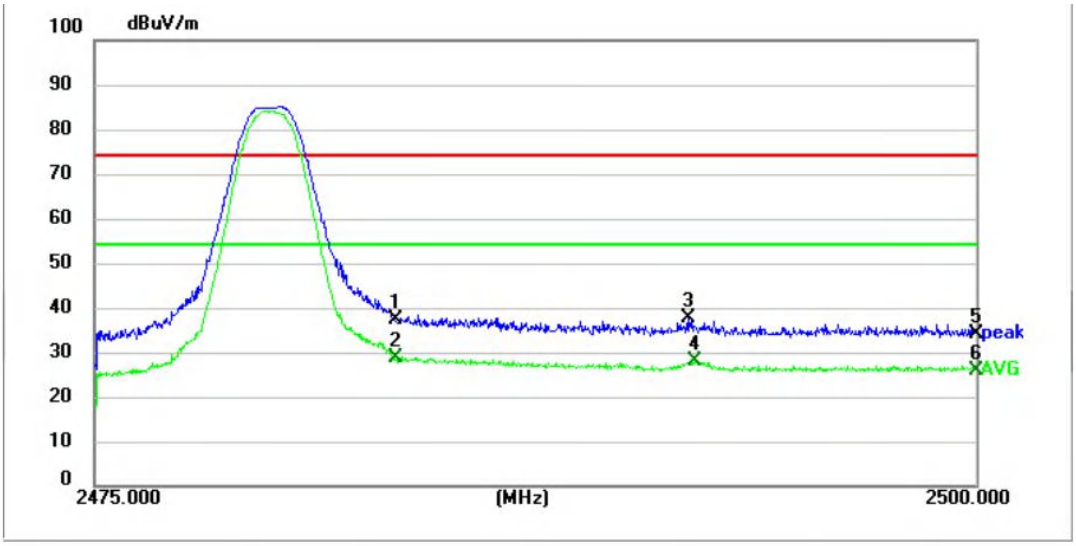
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	51.36	-17.52	33.84	74.00	40.16	peak
2	2310.0000	43.74	-17.52	26.22	54.00	27.78	AVG
3 *	2378.0149	51.84	-17.35	34.49	54.00	19.51	AVG
4	2378.4350	57.43	-17.35	40.08	74.00	33.92	peak
5	2390.0000	58.08	-17.32	40.76	74.00	33.24	peak
6	2390.0000	48.00	-17.32	30.68	54.00	23.32	AVG

Mode1 / Polarization: Vertical / CH: L



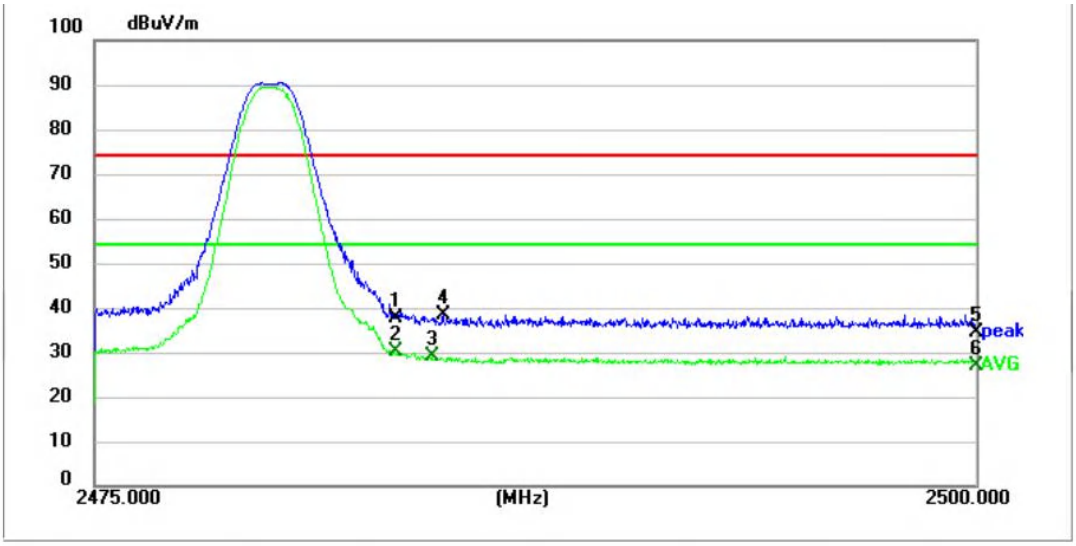
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	51.75	-17.52	34.23	74.00	39.77	peak
2	2310.0000	43.50	-17.52	25.98	54.00	28.02	AVG
3 *	2377.9520	46.97	-17.35	29.62	54.00	24.38	AVG
4	2378.1620	54.96	-17.35	37.61	74.00	36.39	peak
5	2390.0000	53.05	-17.32	35.73	74.00	38.27	peak
6	2390.0000	44.28	-17.32	26.96	54.00	27.04	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	54.25	-17.03	37.22	74.00	36.78	peak
2 *	2483.5000	45.64	-17.03	28.61	54.00	25.39	AVG
3	2491.8500	54.67	-16.98	37.69	74.00	36.31	peak
4	2492.0250	45.18	-16.98	28.20	54.00	25.80	AVG
5	2500.0000	51.03	-16.94	34.09	74.00	39.91	peak
6	2500.0000	42.72	-16.94	25.78	54.00	28.22	AVG

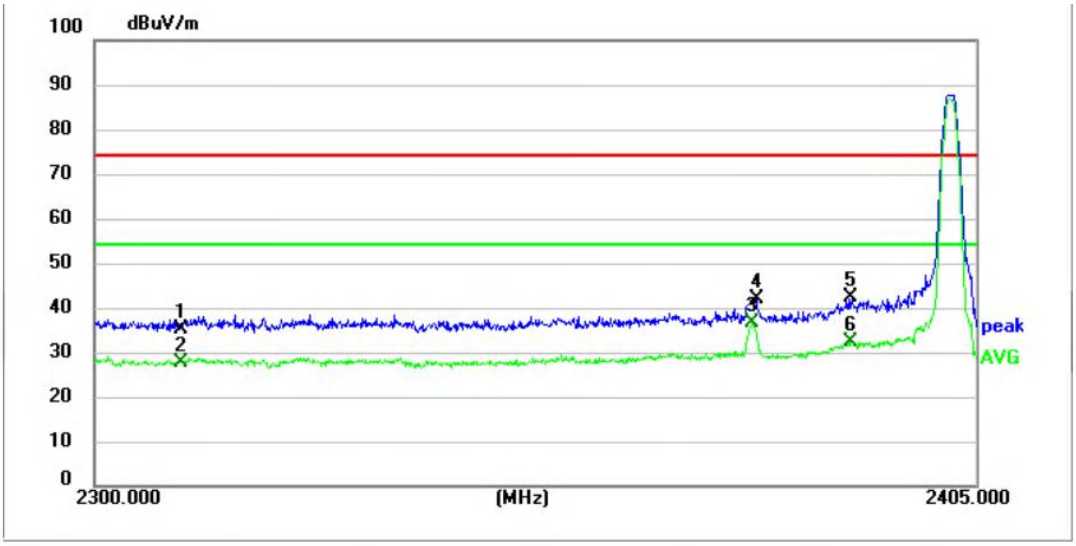
Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	54.65	-17.03	37.62	74.00	36.38	peak
2 *	2483.5000	47.18	-17.03	30.15	54.00	23.85	AVG
3	2484.5674	45.99	-17.02	28.97	54.00	25.03	AVG
4	2484.8850	55.43	-17.02	38.41	74.00	35.59	peak
5	2500.0000	51.52	-16.94	34.58	74.00	39.42	peak
6	2500.0000	44.00	-16.94	27.06	54.00	26.94	AVG

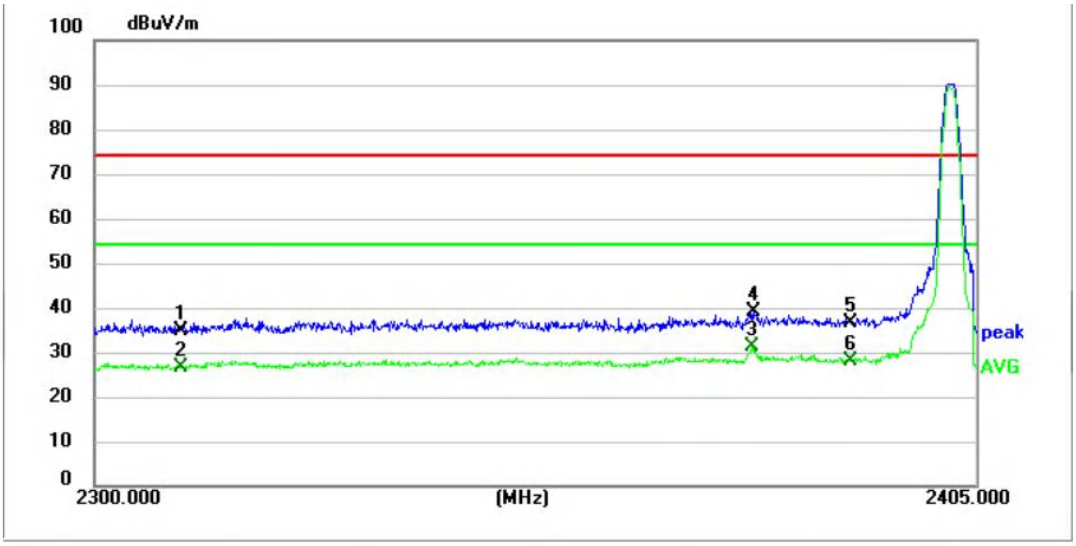
Ant1:

Mode1 / Polarization: Horizontal / CH: L



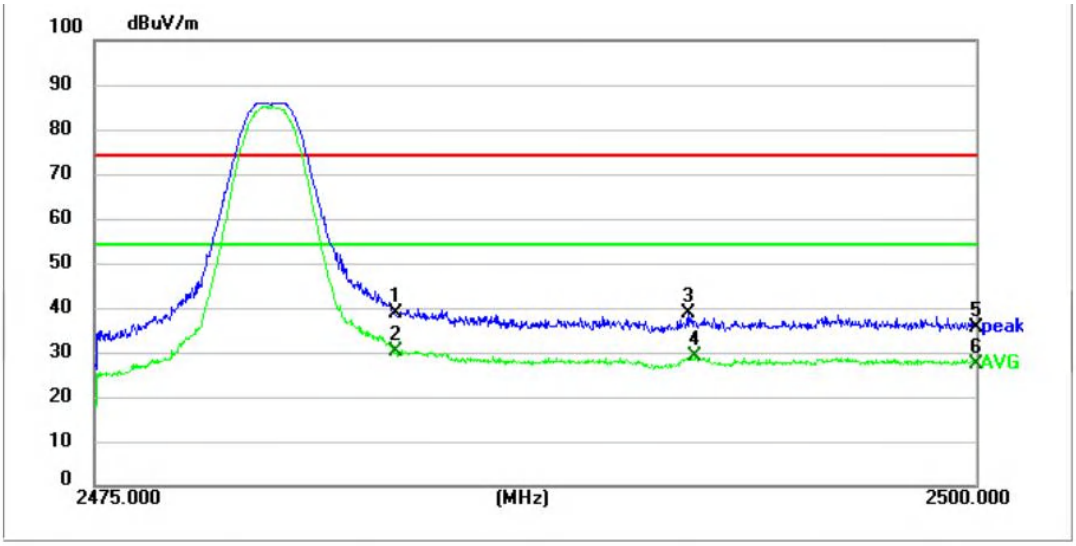
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	52.86	-17.52	35.34	74.00	38.66	peak
2	2310.0000	45.24	-17.52	27.72	54.00	26.28	AVG
3 *	2378.0149	53.84	-17.35	36.49	54.00	17.51	AVG
4	2378.4350	59.43	-17.35	42.08	74.00	31.92	peak
5	2390.0000	59.58	-17.32	42.26	74.00	31.74	peak
6	2390.0000	49.50	-17.32	32.18	54.00	21.82	AVG

Mode1 / Polarization: Vertical / CH: L



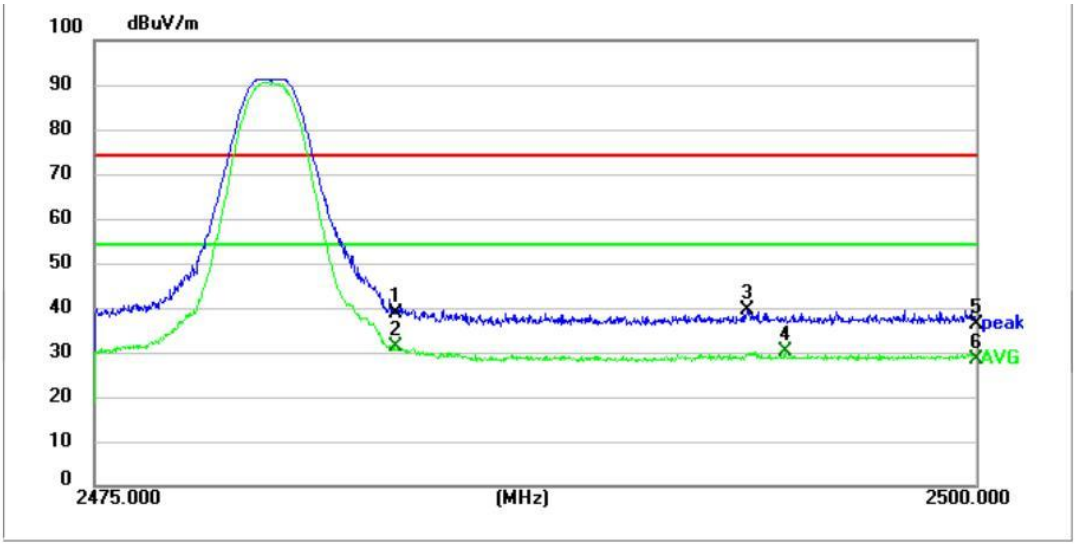
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	52.25	-17.52	34.73	74.00	39.27	peak
2	2310.0000	44.00	-17.52	26.48	54.00	27.52	AVG
3 *	2377.9520	48.47	-17.35	31.12	54.00	22.88	AVG
4	2378.1620	56.46	-17.35	39.11	74.00	34.89	peak
5	2390.0000	54.05	-17.32	36.73	74.00	37.27	peak
6	2390.0000	45.28	-17.32	27.96	54.00	26.04	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	55.75	-17.03	38.72	74.00	35.28	peak
2 *	2483.5000	47.14	-17.03	30.11	54.00	23.89	AVG
3	2491.8500	55.67	-16.98	38.69	74.00	35.31	peak
4	2492.0250	46.18	-16.98	29.20	54.00	24.80	AVG
5	2500.0000	52.53	-16.94	35.59	74.00	38.41	peak
6	2500.0000	44.22	-16.94	27.28	54.00	26.72	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	55.65	-17.03	38.62	74.00	35.38	peak
2 *	2483.5000	48.18	-17.03	31.15	54.00	22.85	AVG
3	2493.5225	56.48	-16.98	39.50	74.00	34.50	peak
4	2494.6000	47.25	-16.97	30.28	54.00	23.72	AVG
5	2500.0000	53.02	-16.94	36.08	74.00	37.92	peak
6	2500.0000	45.50	-16.94	28.56	54.00	25.44	AVG

6.2.7. Radiated Spurious Emission (below 1GHz)

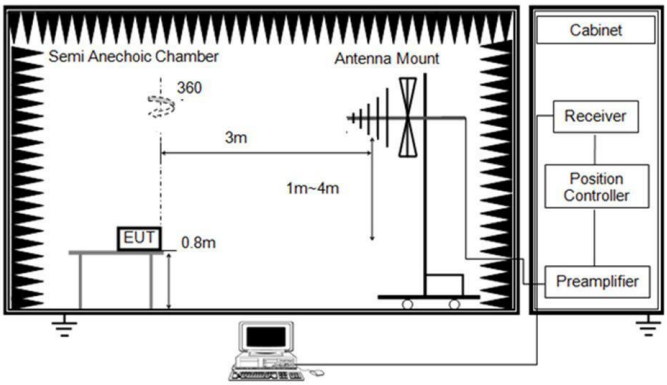
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).
Test Limit:	Frequency (MHz) / Field strength (microvolts/meter) / Measurement distance (meters) 0.009-0.490 / 2400/F(kHz) / 300 0.490-1.705 / 24000/F(kHz) / 30 1.705-30.0 / 30 / 30 30-88 / 100 ** / 3 88-216 / 150 ** / 3 216-960 / 200 ** / 3 Above 960 / 500 / 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
Test Method:	ANSI C63.10-2020 section 6.5.4 ANSI C63.10-2020+Cor 1-2023 section 6.5.4
Procedure:	1>. The EUT was setup and tested according to ANSI C63.10. 2>. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3>. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4>. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5>. Set to the maximum power setting and enable the EUT transmit continuously. 6>. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. ANSI C63.10-2020+Cor 1-2023 section 6.5.4

6.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	23 °C	Humidity:	55.2 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	TM1, TM2, TM3				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode				

	(TM1) is recorded in the report

6.2.7.2. Test Setup Diagram



Below 1 GHz and above 30 MHz

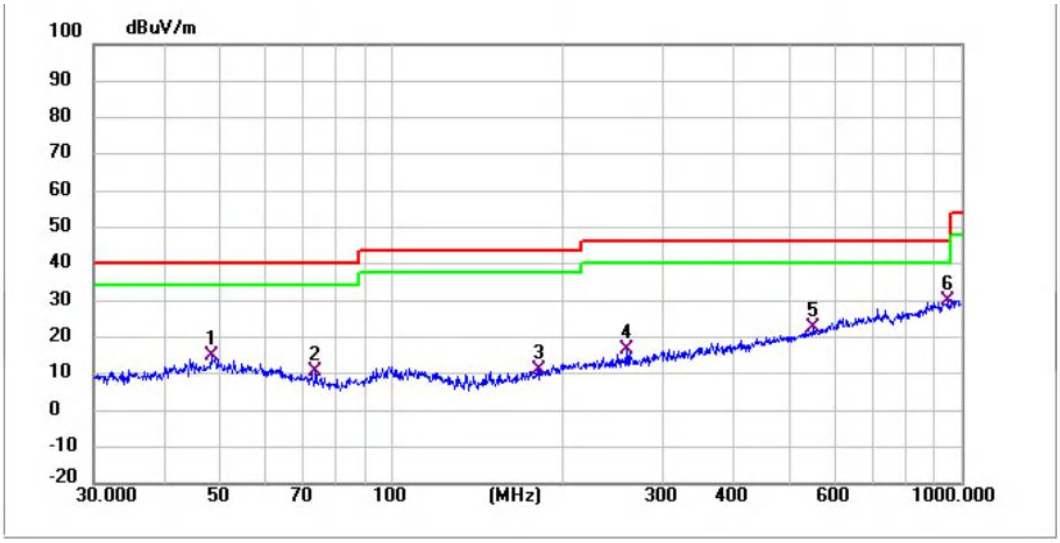
6.2.7.3. Test Result

Pass

6.2.7.4. Test Data

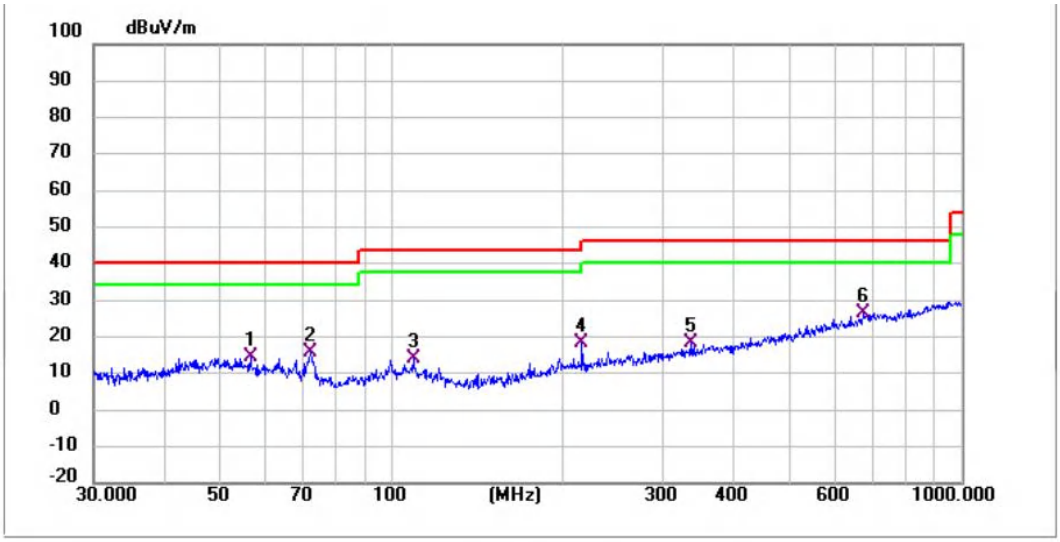
Ant0:

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.3316	44.00	-29.21	14.79	40.00	25.21	QP
2	73.6170	44.39	-33.66	10.73	40.00	29.27	QP
3	181.9202	42.66	-31.48	11.18	43.50	32.32	QP
4	258.3264	44.91	-28.28	16.63	46.00	29.37	QP
5	549.0193	43.01	-20.54	22.47	46.00	23.53	QP
6 *	945.4400	43.86	-14.06	29.80	46.00	16.20	QP

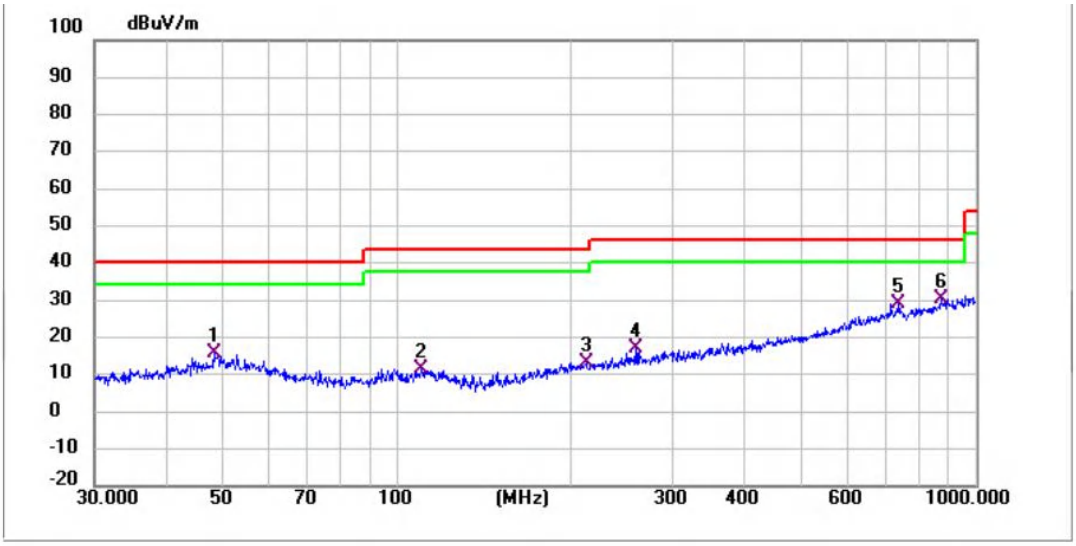
Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	56.5930	44.90	-30.42	14.48	40.00	25.52	QP
2	72.0843	49.16	-33.41	15.75	40.00	24.25	QP
3	109.4116	44.57	-30.51	14.06	43.50	29.44	QP
4	216.0240	48.14	-29.61	18.53	46.00	27.47	QP
5	334.8588	44.37	-26.12	18.25	46.00	27.75	QP
6 *	672.8444	43.95	-17.57	26.38	46.00	19.62	QP

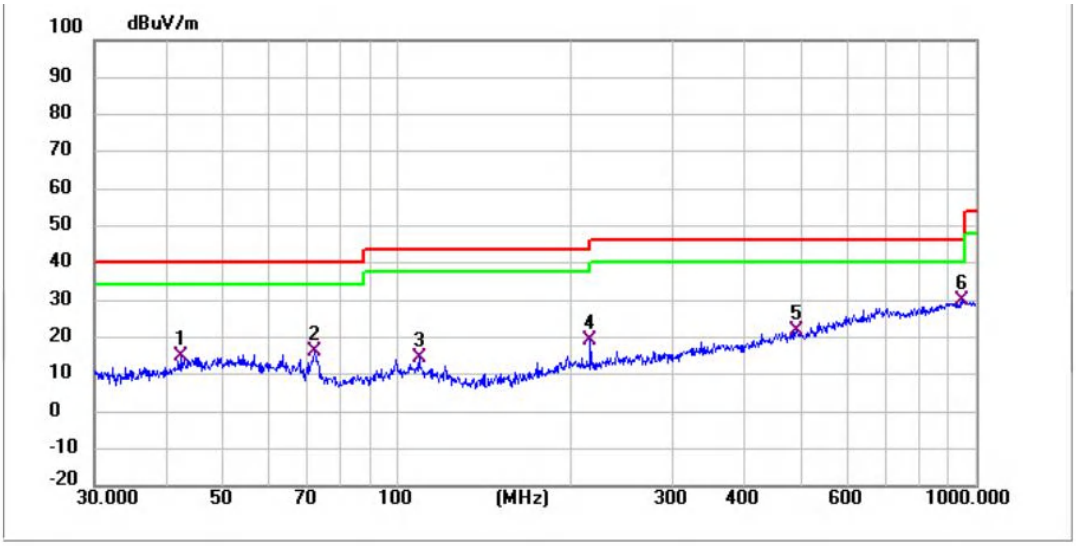
Ant1:

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.3316	45.00	-29.21	15.79	40.00	24.21	QP
2	110.1816	42.13	-30.51	11.62	43.50	31.88	QP
3	212.2692	42.94	-29.68	13.26	43.50	30.24	QP
4	258.3263	45.41	-28.28	17.13	46.00	28.87	QP
5	737.0711	45.82	-16.88	28.94	46.00	17.06	QP
6 *	872.1832	45.73	-15.21	30.52	46.00	15.48	QP

Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.4508	45.02	-30.12	14.90	40.00	25.10	QP
2	72.0841	49.66	-33.41	16.25	40.00	23.75	QP
3	109.4116	45.07	-30.51	14.56	43.50	28.94	QP
4	216.0240	48.64	-29.61	19.03	46.00	26.97	QP
5	490.7445	44.06	-22.31	21.75	46.00	24.25	QP
6 *	948.7610	44.14	-14.04	30.10	46.00	15.90	QP

Note:
1>. For 9 kHz ~ 30 MHz Measurement
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.
2>. Level= Reading + Factor (Antenna Factor+ Cable Loss- Preamp Factor)
3>. Margin = Limit – Level

6.2.8. Radiated Spurious Emission (Above 1GHz)

<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.5.4
ANSI C63.10-2020+Cor 1-2023 section 6.5.4</td></tr>
<tr><td>Procedure:</td><td>1>. The EUT was setup and tested according to ANSI C63.10.
2>. The EUT is placed on a turn table which is 0.8 meter above ground for 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3>. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4>. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5>. Set to the maximum power setting and enable the EUT transmit continuously.
6>. Use the following spectrum analyzer settings
a) Span shall wide enough to fully capture the emission being measured;
b) Set RBW=1MHz, VBW=3MHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

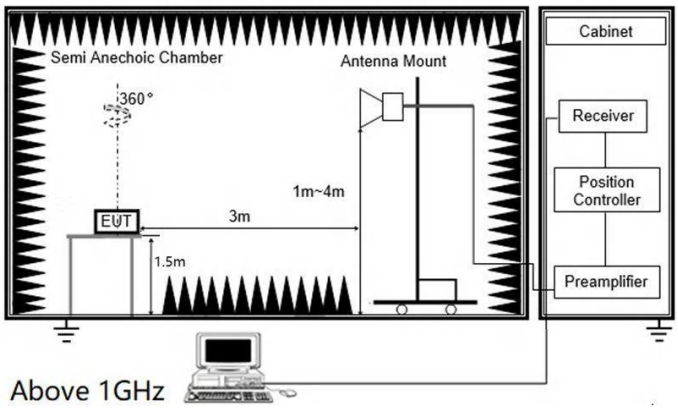
For average measurement: use duty cycle correction factor method (DCCF)
Average level = Peak level + DCCF

ANSI C63.10-2020+Cor 1-2023 section 6.5.4</td></tr>
</table>

6.2.8.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.2 °C	Humidity:	56.6 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	TM1, TM2, TM3				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (TM1) is recorded in the report				

6.2.8.2. Test Setup Diagram

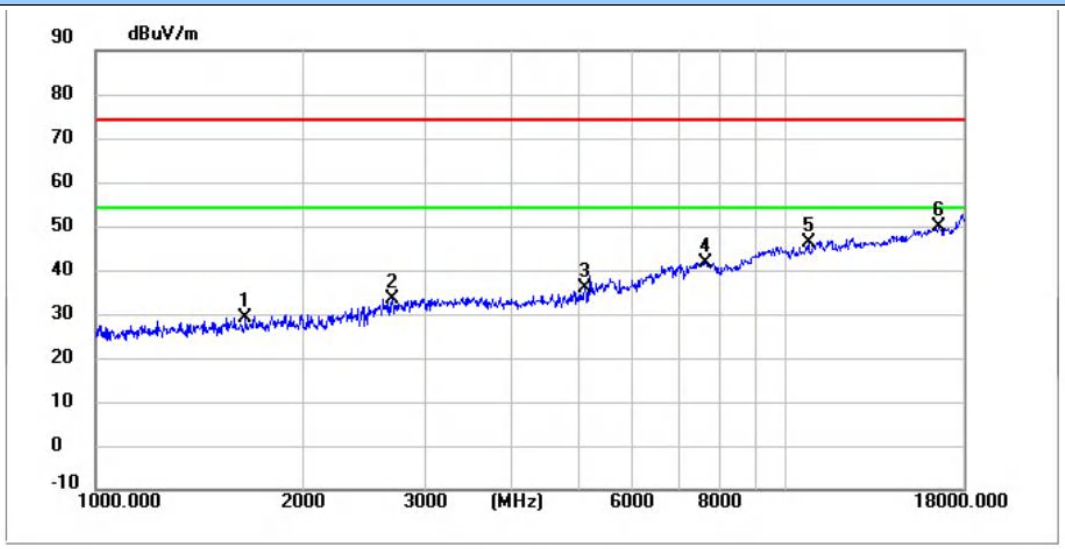


6.2.8.3. Test Result

Pass

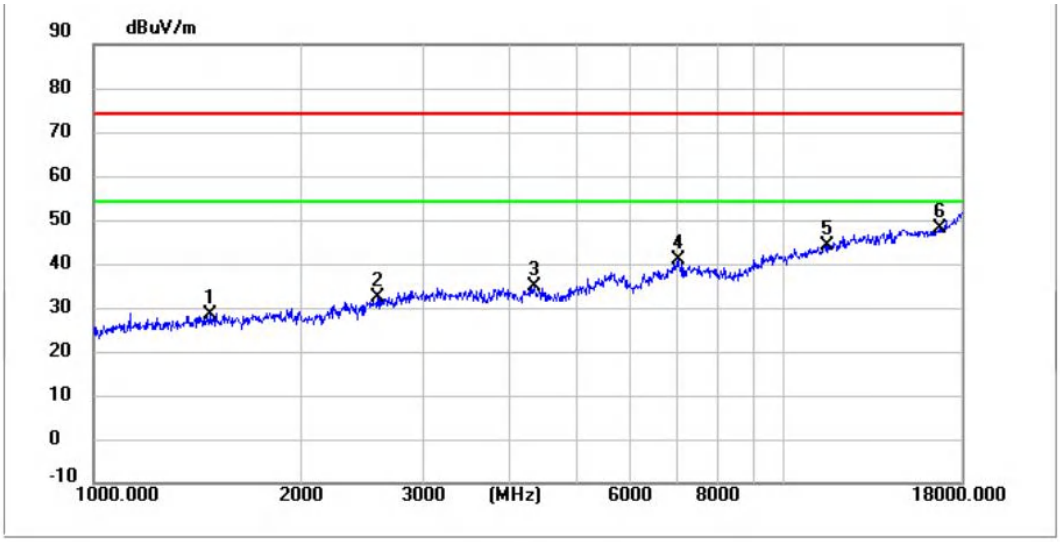
6.2.8.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



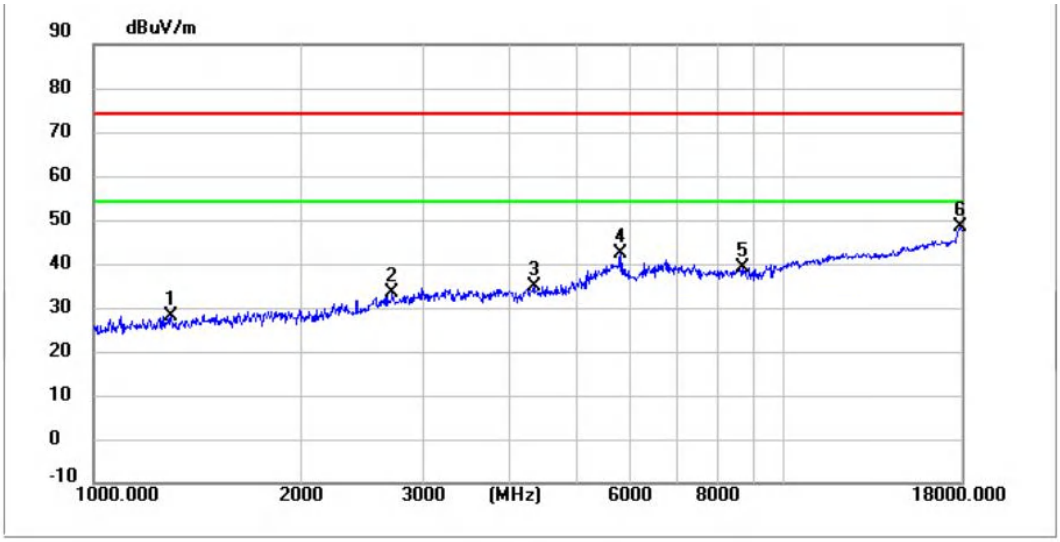
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1651.1000	49.45	-20.37	29.08	74.00	44.92	peak
2	2691.5000	49.14	-15.78	33.36	74.00	40.64	peak
3	5110.6000	44.15	-8.24	35.91	74.00	38.09	peak
4	7631.7000	36.09	5.69	41.78	74.00	32.22	peak
5	10788.6000	33.52	12.59	46.11	74.00	27.89	peak
6 *	16614.5000	32.60	17.36	49.96	74.00	24.04	peak

Mode1 / Polarization: Vertical / CH: L



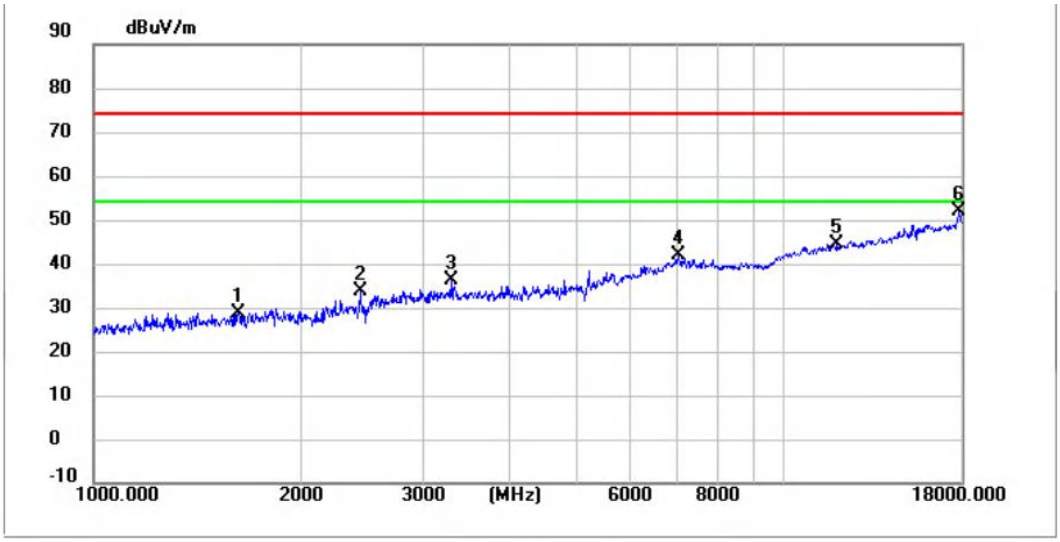
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1481.1000	49.21	-20.77	28.44	74.00	45.56	peak
2	2575.9000	48.62	-16.38	32.24	74.00	41.76	peak
3	4364.3000	46.38	-11.46	34.92	74.00	39.08	peak
4	7023.1000	37.20	3.75	40.95	74.00	33.05	peak
5	11541.7000	30.14	14.03	44.17	74.00	29.83	peak
6 *	16815.1000	30.22	17.78	48.00	74.00	26.00	peak

Mode1 / Polarization: Horizontal / CH: M



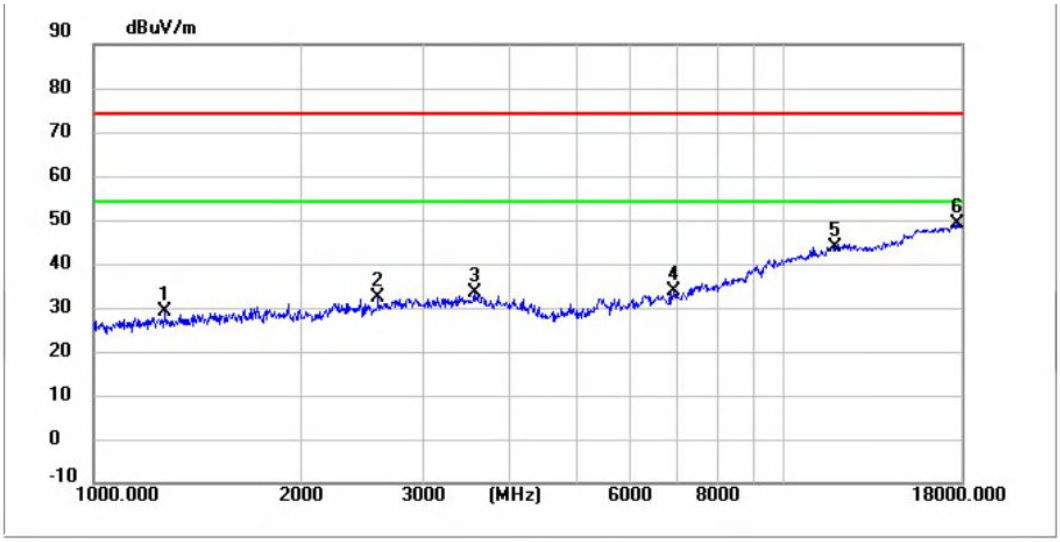
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1297.5000	49.45	-21.29	28.16	74.00	45.84	peak
2	2708.5000	48.97	-15.74	33.23	74.00	40.77	peak
3	4345.6000	46.26	-11.55	34.71	74.00	39.29	peak
4	5790.6000	48.47	-6.18	42.29	74.00	31.71	peak
5	8694.2000	31.53	7.63	39.16	74.00	34.84	peak
6 *	17962.6000	24.69	23.85	48.54	74.00	25.46	peak

Mode1 / Polarization: Vertical / CH: M



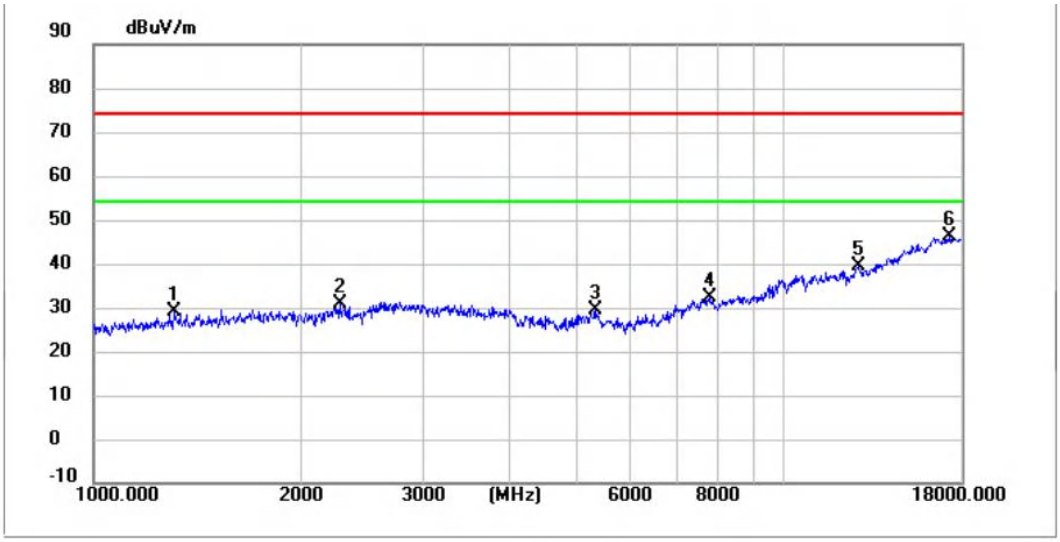
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1623.9000	49.12	-20.42	28.70	74.00	45.30	peak
2	2434.8000	50.84	-17.23	33.61	74.00	40.39	peak
3	3291.6000	50.24	-13.94	36.30	74.00	37.70	peak
4	7026.5000	38.20	3.75	41.95	74.00	32.05	peak
5	11893.6000	30.34	14.19	44.53	74.00	29.47	peak
6 *	17923.5000	28.50	23.57	52.07	74.00	21.93	peak

Mode1 / Polarization: Horizontal / CH: H



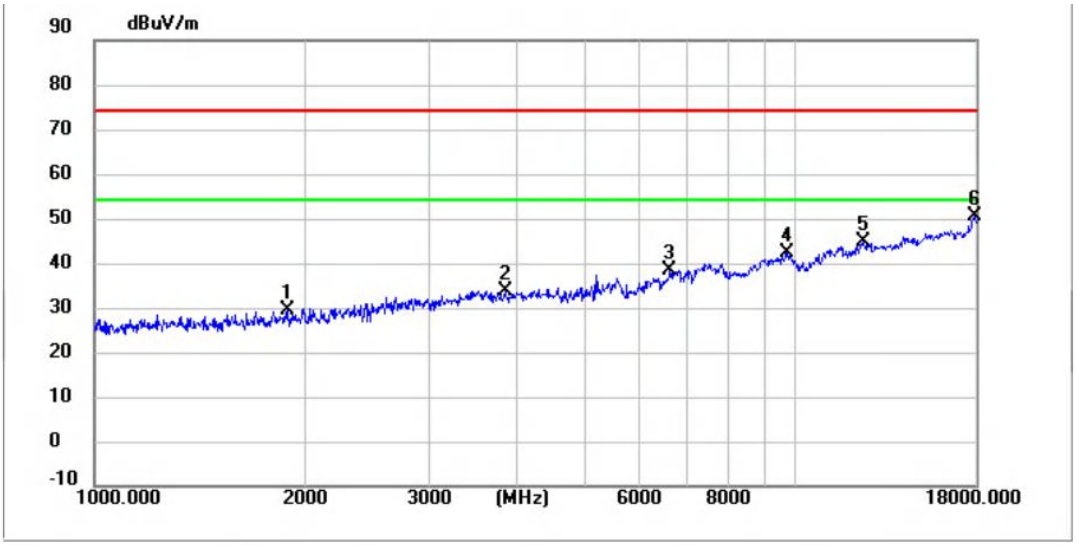
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1272.0000	50.51	-21.33	29.18	74.00	44.82	peak
2	2584.4000	48.80	-16.31	32.49	74.00	41.51	peak
3	3575.5000	46.83	-13.52	33.31	74.00	40.69	peak
4	6919.4000	30.87	2.90	33.77	74.00	40.23	peak
5	11864.7000	29.65	14.20	43.85	74.00	30.15	peak
6 *	17843.6000	26.03	22.91	48.94	74.00	25.06	peak

Mode1 / Polarization: Vertical / CH: H



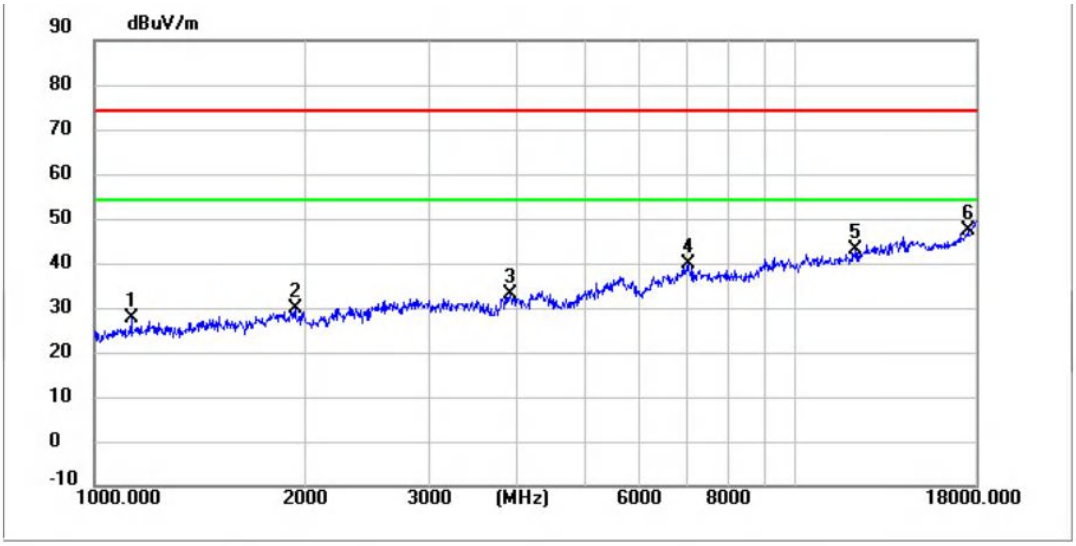
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1309.4000	50.48	-21.27	29.21	74.00	44.79	peak
2	2278.4000	48.45	-17.59	30.86	74.00	43.14	peak
3	5345.2000	37.22	-7.61	29.61	74.00	44.39	peak
4	7827.2000	26.58	5.83	32.41	74.00	41.59	peak
5	12769.1000	24.22	15.24	39.46	74.00	34.54	peak
6 *	17314.9000	26.99	19.40	46.39	74.00	27.61	peak

Mode1 / Polarization: Horizontal / CH: L



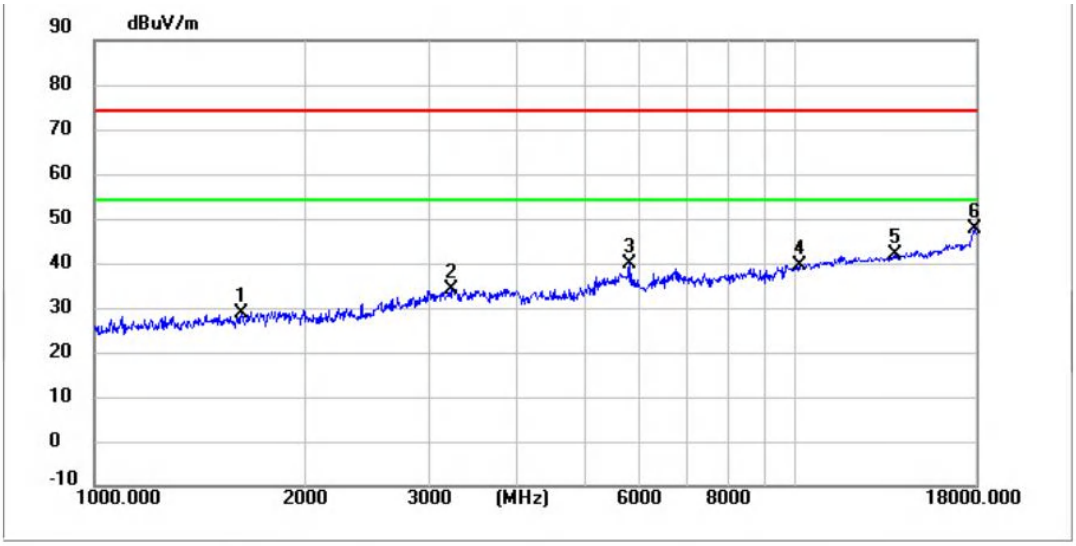
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1884.0000	48.59	-19.29	29.30	74.00	44.70	peak
2	3850.9000	46.50	-12.70	33.80	74.00	40.20	peak
3	6604.9000	38.10	0.17	38.27	74.00	35.73	peak
4	9734.6000	31.99	10.36	42.35	74.00	31.65	peak
5	12449.5000	30.05	14.94	44.99	74.00	29.01	peak
6 *	17969.4000	26.69	23.91	50.60	74.00	23.40	peak

Mode1 / Polarization: Vertical / CH: L



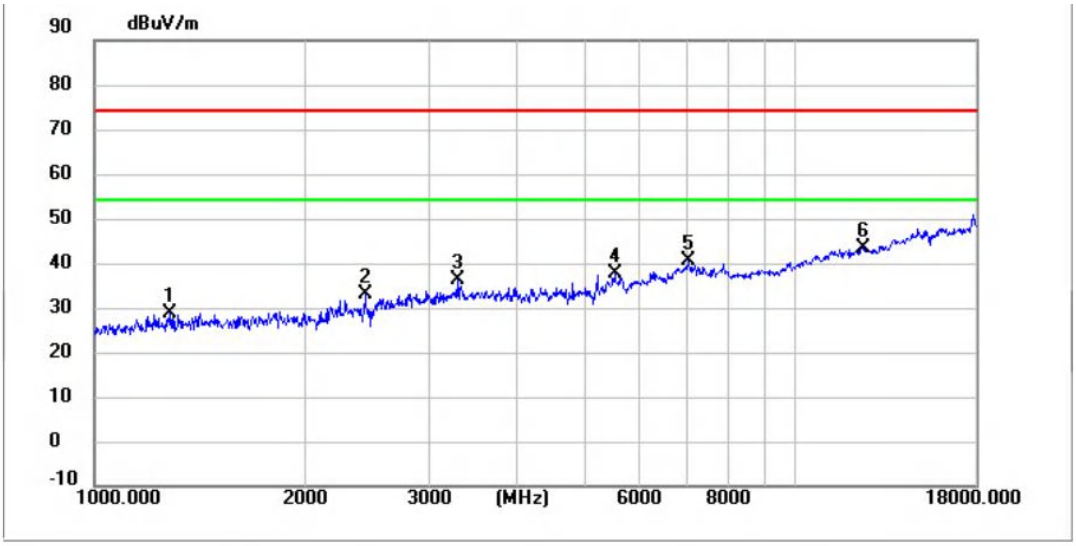
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1129.2000	49.51	-21.68	27.83	74.00	46.17	peak
2	1938.4000	48.90	-19.17	29.73	74.00	44.27	peak
3	3913.8000	45.45	-12.54	32.91	74.00	41.09	peak
4	7023.1000	36.20	3.75	39.95	74.00	34.05	peak
5	12170.7000	28.56	14.63	43.19	74.00	30.81	peak
6 *	17556.3000	26.50	20.69	47.19	74.00	26.81	peak

Mode1 / Polarization: Horizontal / CH: M



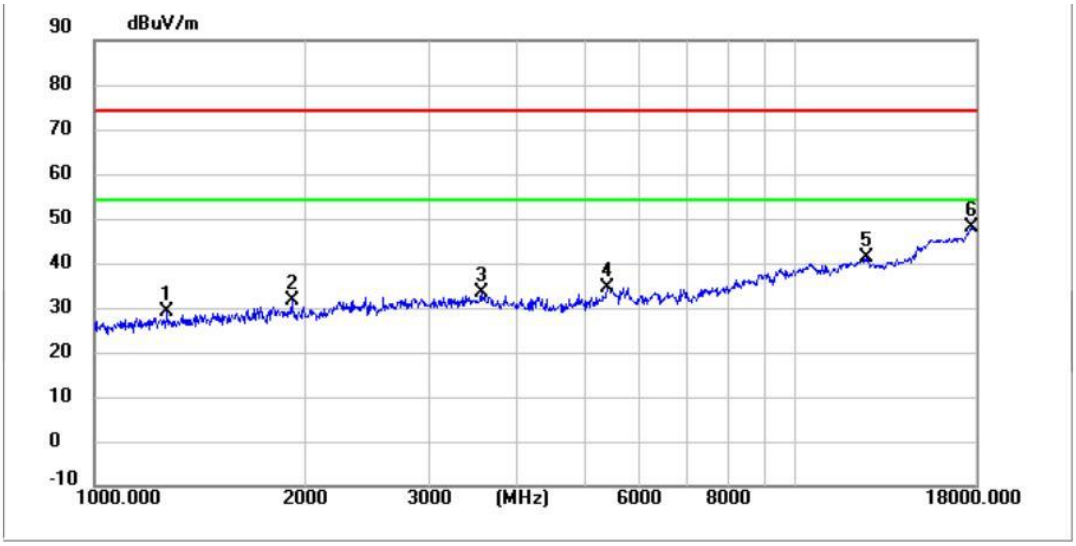
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1620.5000	49.06	-20.42	28.64	74.00	45.36	peak
2	3238.9000	48.21	-13.96	34.25	74.00	39.75	peak
3	5790.6000	45.97	-6.18	39.79	74.00	34.21	peak
4	10151.1000	28.23	11.31	39.54	74.00	34.46	peak
5	13809.5000	23.94	17.88	41.82	74.00	32.18	peak
6 *	17962.6000	23.69	23.85	47.54	74.00	26.46	peak

Mode1 / Polarization: Vertical / CH: M



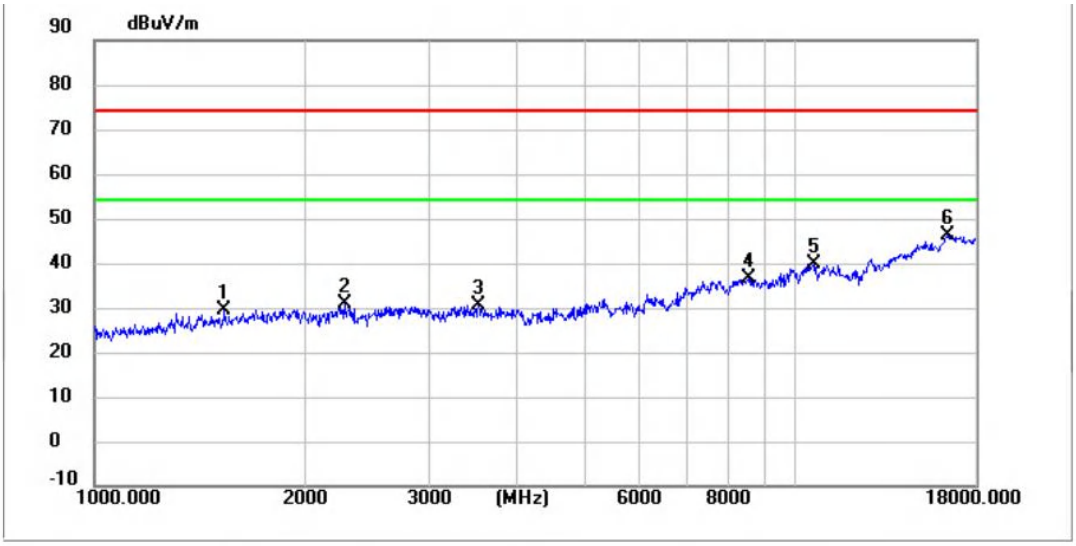
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1282.2000	50.02	-21.32	28.70	74.00	45.30	peak
2	2434.8000	50.34	-17.23	33.11	74.00	40.89	peak
3	3291.6000	50.24	-13.94	36.30	74.00	37.70	peak
4	5532.2000	44.24	-6.67	37.57	74.00	36.43	peak
5	7026.5000	36.70	3.75	40.45	74.00	33.55	peak
6 *	12473.3000	28.55	14.98	43.53	74.00	30.47	peak

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1272.0000	50.51	-21.33	29.18	74.00	44.82	peak
2	1914.6000	50.72	-19.21	31.51	74.00	42.49	peak
3	3575.5000	46.83	-13.52	33.31	74.00	40.69	peak
4	5392.8000	41.13	-6.50	34.63	74.00	39.37	peak
5	12617.8000	26.11	15.09	41.20	74.00	32.80	peak
6 *	17843.6000	25.03	22.91	47.94	74.00	26.06	peak

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1537.2000	50.06	-20.67	29.39	74.00	44.61	peak
2	2278.4000	48.45	-17.59	30.86	74.00	43.14	peak
3	3534.7000	44.10	-13.63	30.47	74.00	43.53	peak
4	8583.7000	29.26	7.46	36.72	74.00	37.28	peak
5	10593.1000	27.73	12.12	39.85	74.00	34.15	peak
6 *	16487.0000	29.32	16.92	46.24	74.00	27.76	peak

Note:
1>. Level= Reading + Factor (Antenna Factor+ Cable Loss- Preamp Factor)
2>. Margin = Limit – Level
3>. Average measurement was not performed if peak level is lower than average limit (54dBuV/m) above 1GHz.

7. APPENDIX REPORT

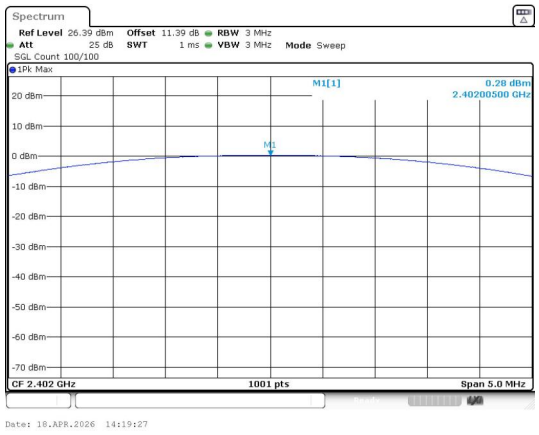
7.1. Conducted Output Power

Ant0:

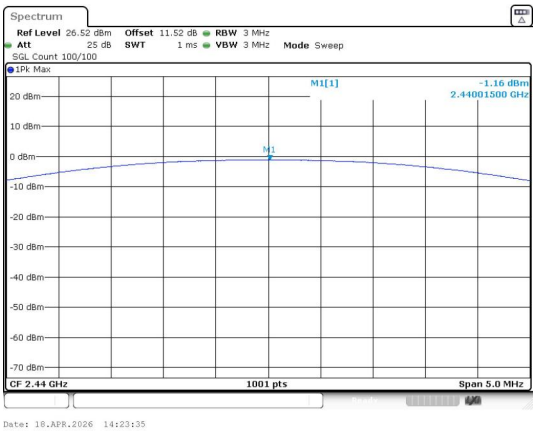
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	0.28	1.07	≤30	PASS
	19	-1.16	0.77	≤30	PASS
	39	-1.37	0.73	≤30	PASS

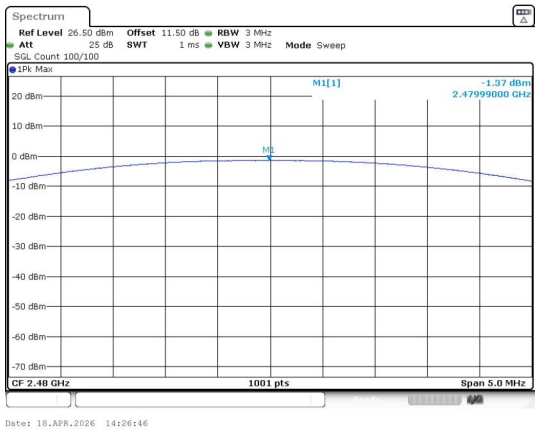
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



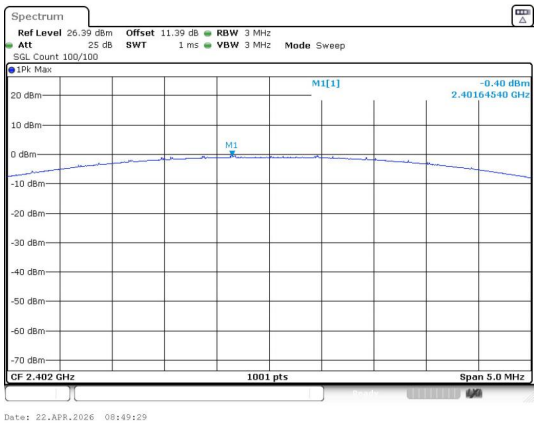
Peak Output Power
BLE 1M_Channel 39

Ant1:

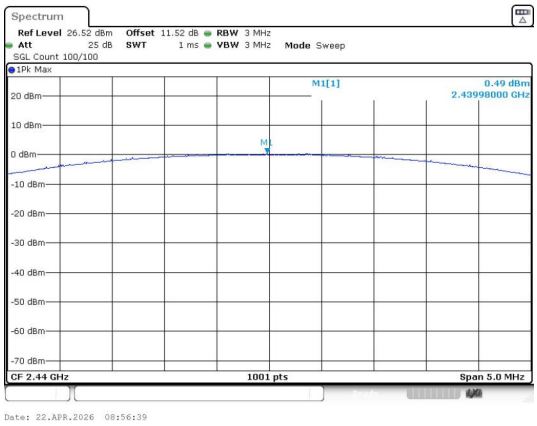
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-0.40	0.91	≤30	PASS
	19	0.49	1.12	≤30	PASS
	39	-0.49	0.89	≤30	PASS

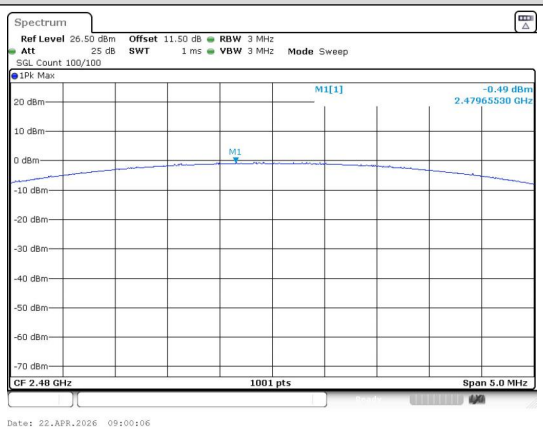
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39

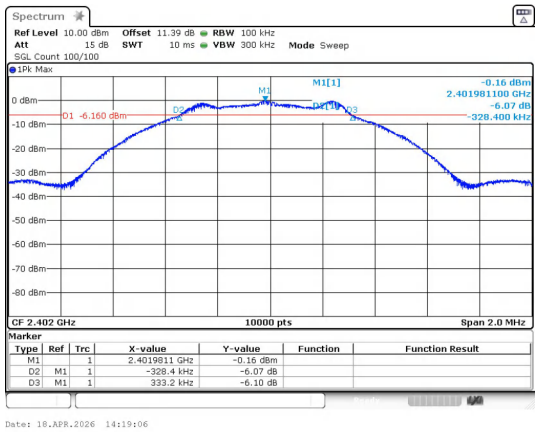
7.2. 6dB Bandwidth

Ant0:

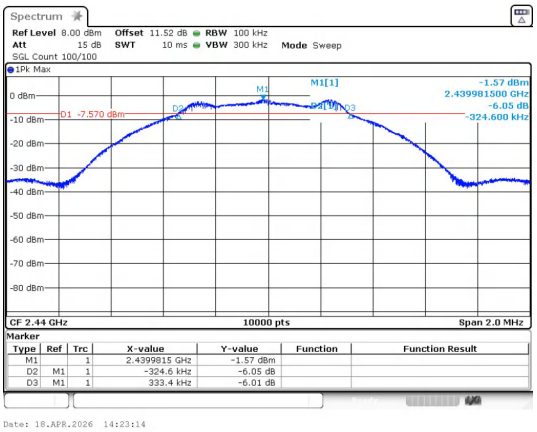
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6500		PASS
	39	2480	0.6700		PASS

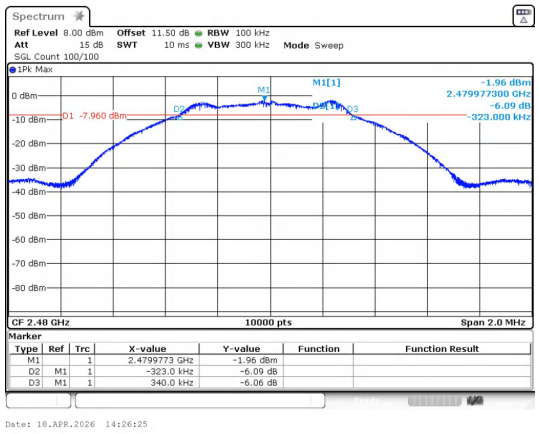
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



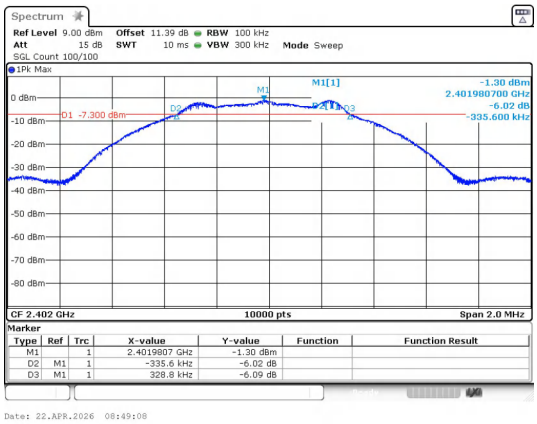
BLE 1M_Channel 39

Ant1:

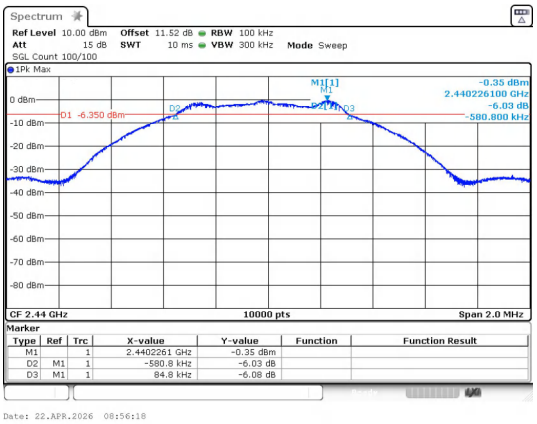
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6700		PASS

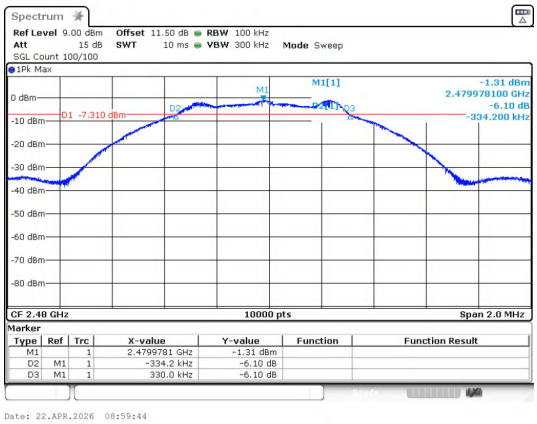
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

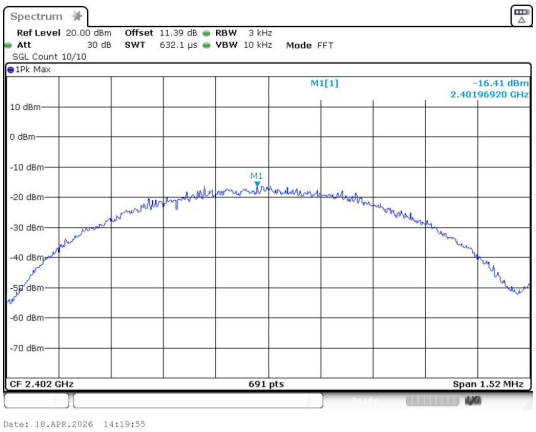
7.3. Power Spectral Density

Ant0:

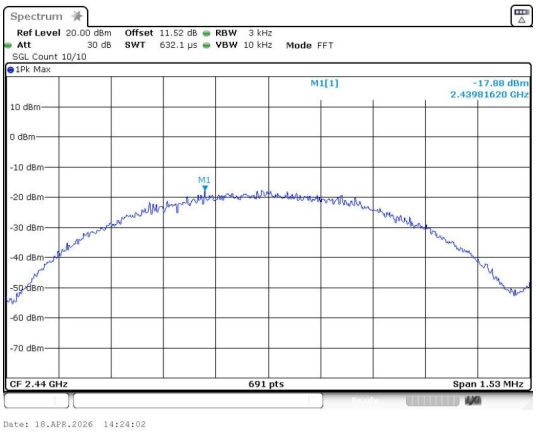
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-16.410	≤8	PASS
BLE 1M	19	-17.880	≤8	PASS
BLE 1M	39	-18.150	≤8	PASS

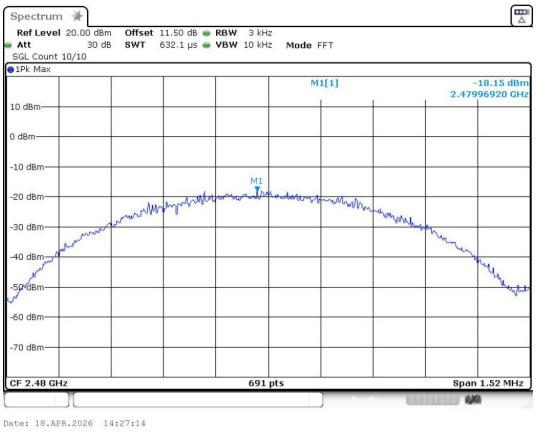
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



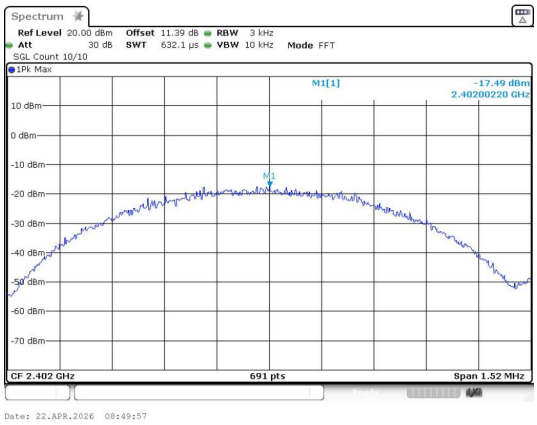
BLE 1M_Channel 39

Ant1:

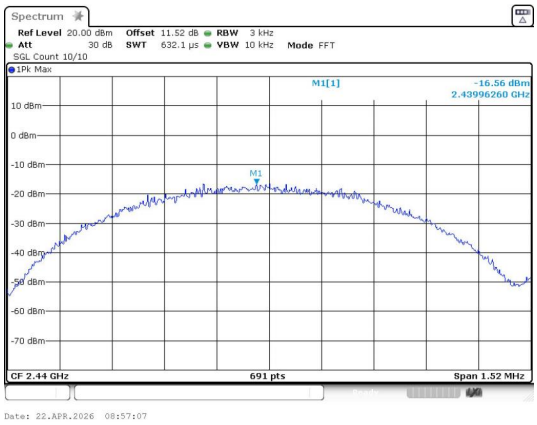
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-17.490	≤8	PASS
BLE 1M	19	-16.560	≤8	PASS
BLE 1M	39	-17.550	≤8	PASS

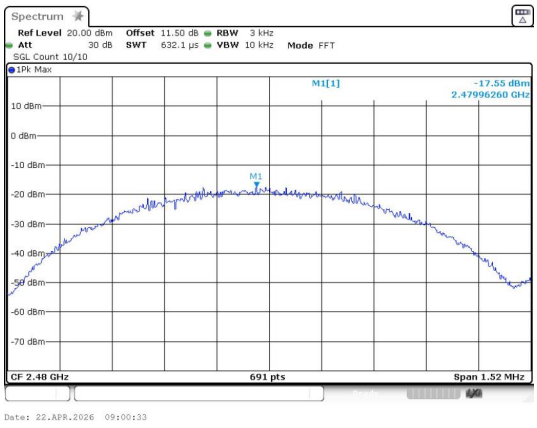
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

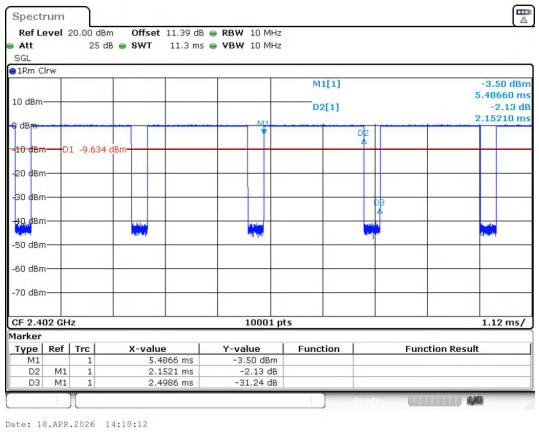
7.4. Duty Cycle

Ant0:

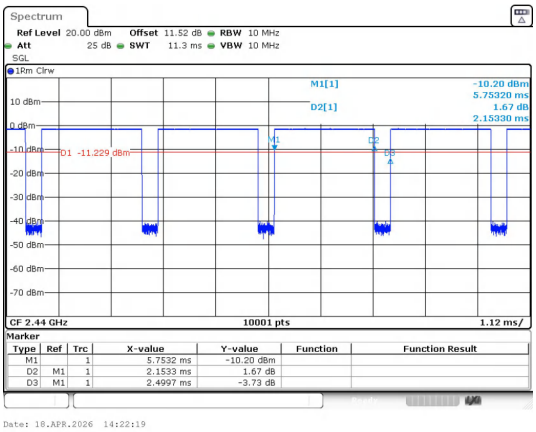
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.152	2.499	86.13	0.8613	0.6485	0.4647
	19	2.153	2.500	86.14	0.8614	0.648	0.4645
	39	2.153	2.500	86.14	0.8614	0.648	0.4645

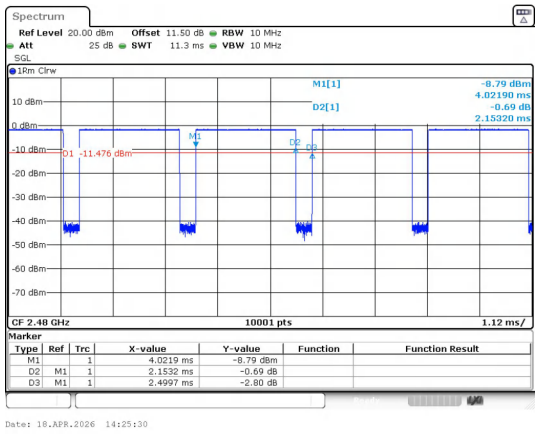
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



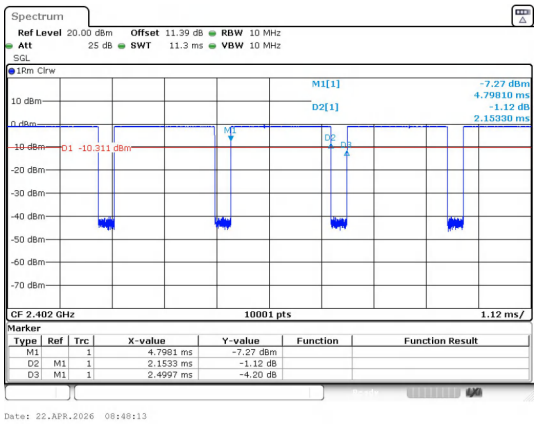
BLE 1M_Channel 39

Ant1:

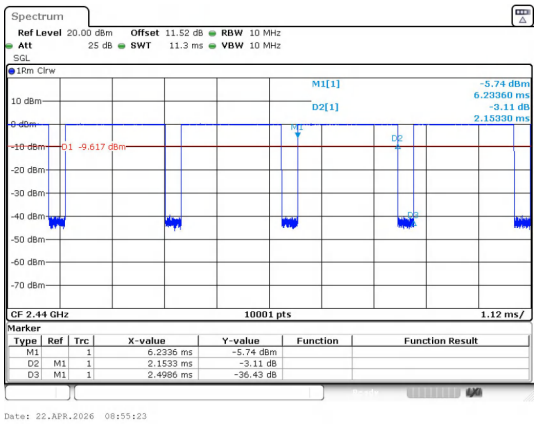
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.153	2.500	86.14	0.8614	0.648	0.4645
	19	2.153	2.499	86.18	0.8618	0.6459	0.4645
	39	2.152	2.499	86.14	0.8614	0.648	0.4647

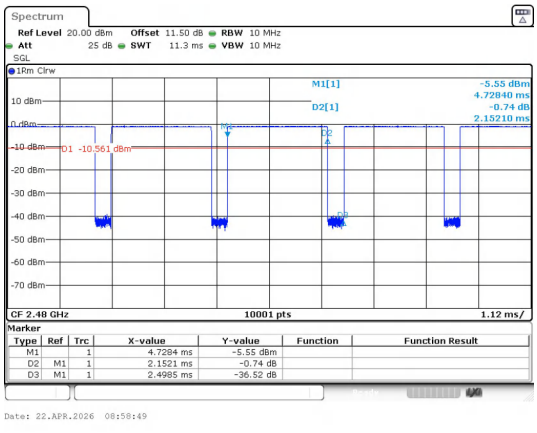
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

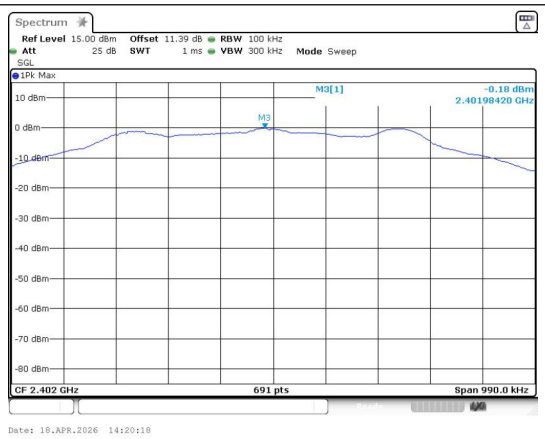
7.5. Conducted Spurious & Band Edge Emission

Ant0:

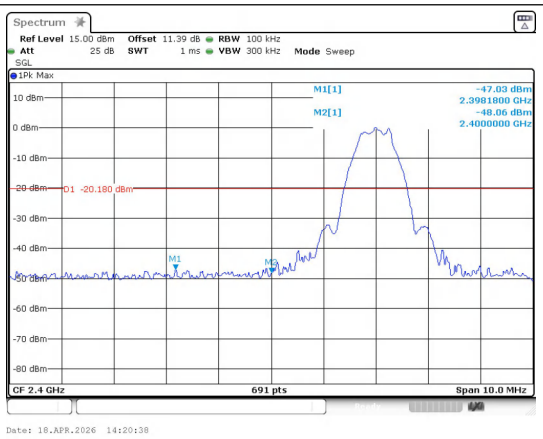
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.18	-47.034	-20.18	-26.854	PASS
		2400.00	-48.060	-20.18	-27.880	PASS
		4803.80	-34.975	-20.18	-14.795	PASS
	19	4879.59	-35.636	-21.59	-14.046	PASS
	39	2483.50	-48.440	-21.84	-26.600	PASS
		4960.33	-37.109	-21.84	-15.269	PASS
Note: input compensation coeffcient (dB)= Cable Loss (dB)						

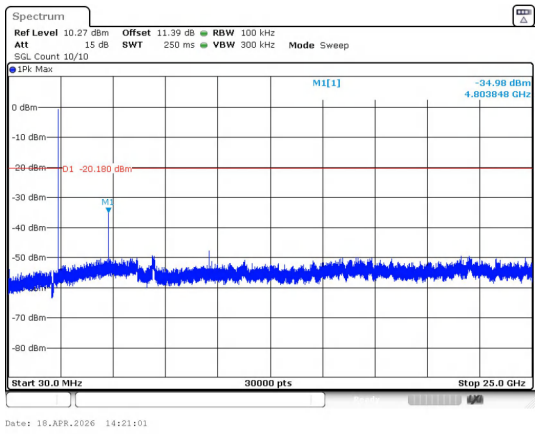
Test Graphs



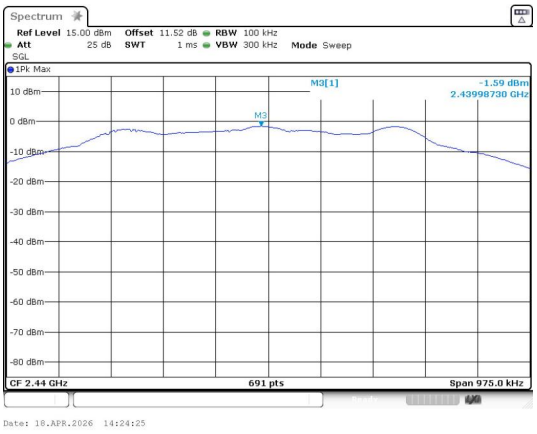
In-Band Reference Level
BLE 1M_Channel 0



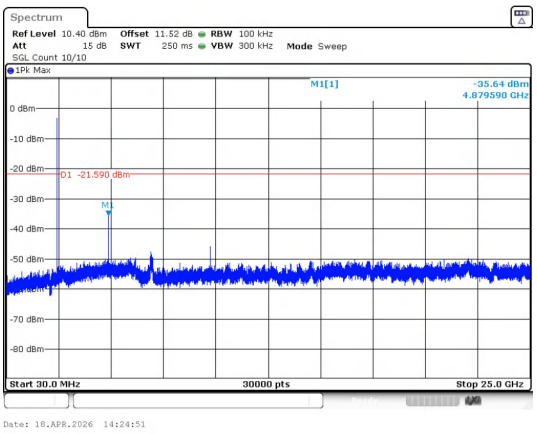
Out Of Band Emission
BLE 1M_Channel 0



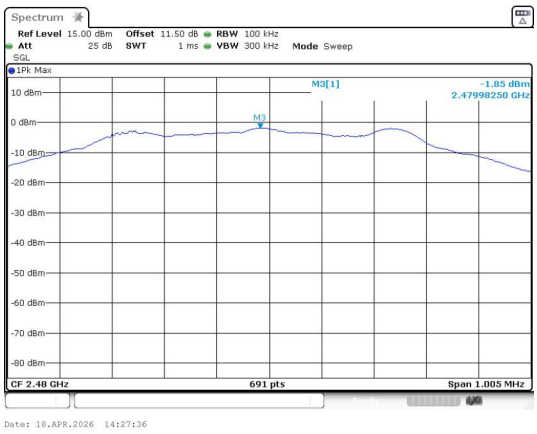
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



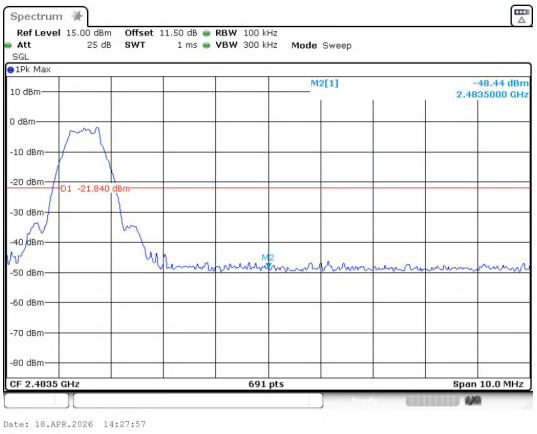
In-Band Reference Level
BLE 1M_Channel 19



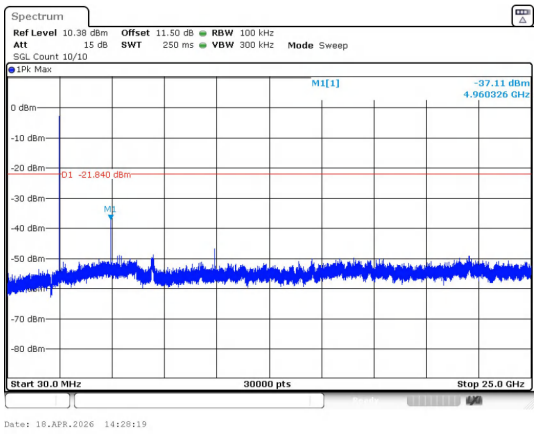
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



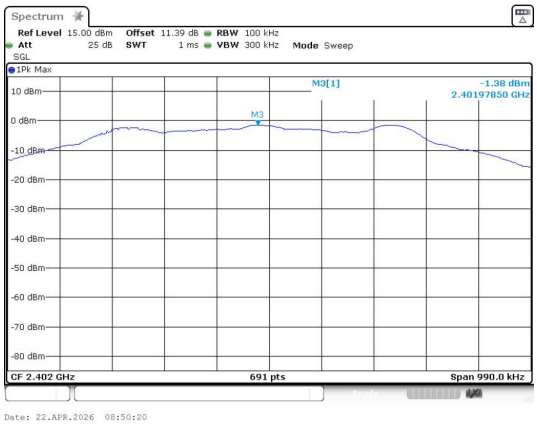
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

Ant1:

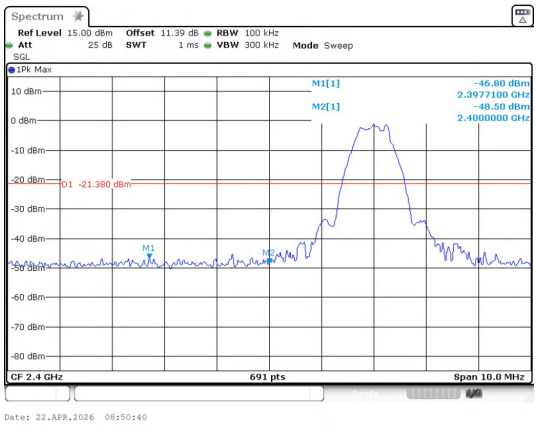
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2397.71	-46.799	-21.38	-25.419	PASS
		2400.00	-48.500	-21.38	-27.120	PASS
		4804.70	-39.240	-21.38	-17.860	PASS
	19	4879.59	-33.407	-20.34	-13.067	PASS
	39	2483.50	-47.410	-21.33	-26.080	PASS
		4960.33	-38.857	-21.33	-17.527	PASS
Note: input compensation coeffcient (dB)= Cable Loss (dB)						

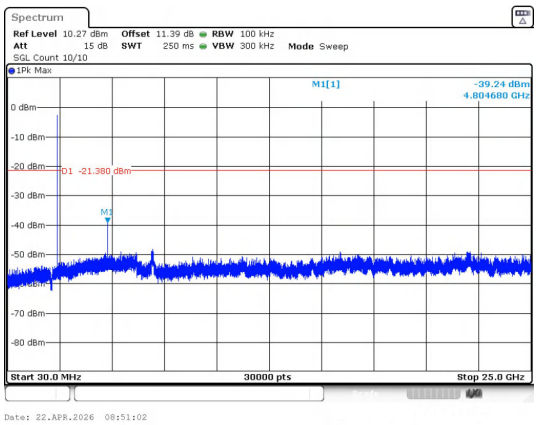
Test Graphs



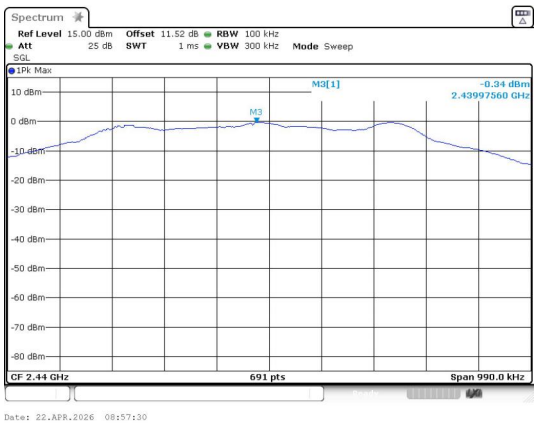
In-Band Reference Level
BLE 1M_Channel 0



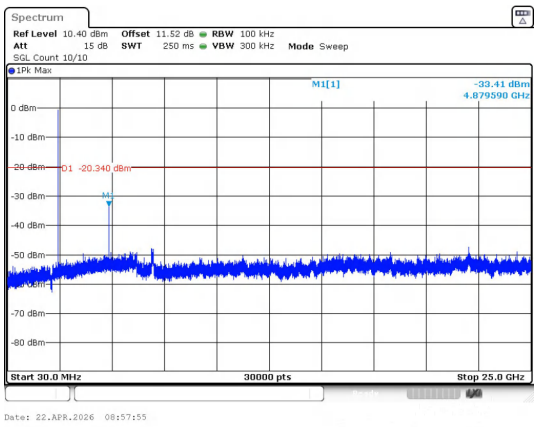
Out Of Band Emission
BLE 1M_Channel 0



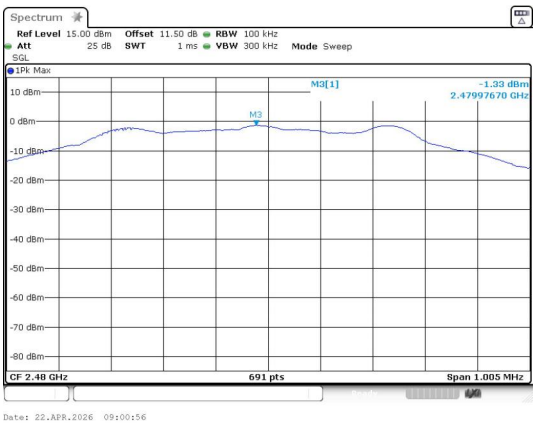
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



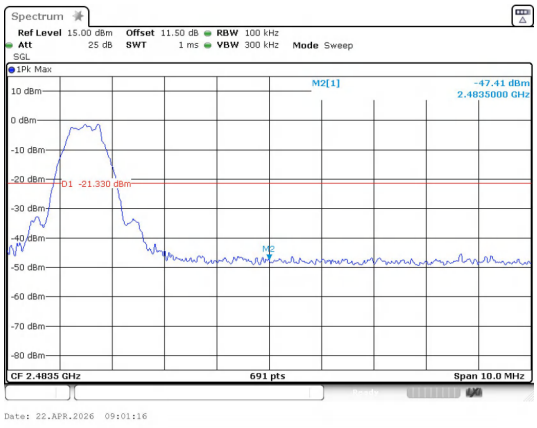
In-Band Reference Level
BLE 1M_Channel 19



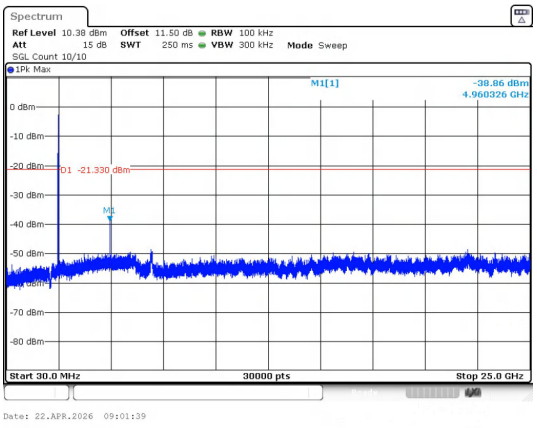
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

------End of the report-----