TEST REPORT

Report No.	CISRR26092420002
Project No.	CISR260924200
FCC ID	2BYM5-OPIAAI-001
Applicant	PLUM NEEDLE TECHNOLOGY INC
Address	118 BRIDLE PATH, Irvine, CA 92602, USA
Manufacturer	PLUM NEEDLE TECHNOLOGY INC
Address	118 BRIDLE PATH, Irvine, CA 92602, USA
Product Name	AI Presbyopia Training Glasses
Trade mark	OPIAAI
Model/Type reference	Opiaai-001
Listed Model(s)	-
Standard	47 CFR Part 15.247
Date of sample receipt	September 24, 2026
Test date	September 30, 2026 to October 11, 2026
Issue date	October 12, 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	October 12, 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:	AI Presbyopia Training Glasses
Trade mark:	OPIAAI
Model No.:	Opiaai-001
Listed Model(s):	-
Model difference:	-
Power supply:	DC 5V by USB-C port or DC 3.7V by Internal battery
Hardware version:	-
Software version:	-
Accessory unit (AU) information:	
Battery information:	190mAh, 3.7V

4.2. Radio Specification Description *

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

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
Mode1	TX mode	Keep the EUT in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.
Mode2	Link +Charging mode	Keep the EUT in Bluetooth linking +Charging mode with AE.

5.3. Test sample information

Type	Sample No.
Engineer sample	CISR260924200-S01
Normal sample	CISR260924200-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

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

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	/	/

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

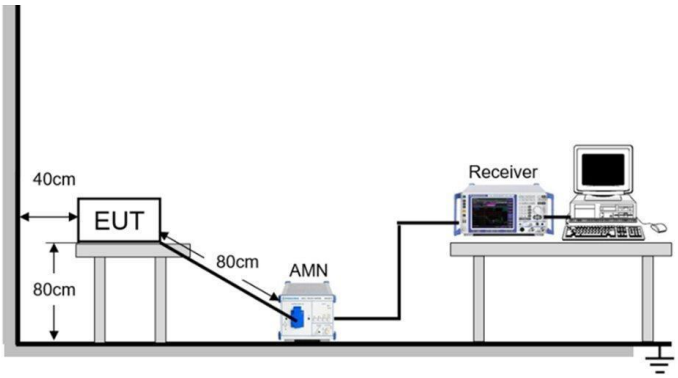
*Decreases with the logarithm of the frequency.

Test Method:	ANSI C63.10-2020 section 6.2
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.

6.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.5 °C	Humidity:	56.3 %	Atmospheric Pressure:	103.1 kPa
Pre test mode:	Mode2				
Final test mode:	Mode2				

6.2.1.2. Test Setup Diagram

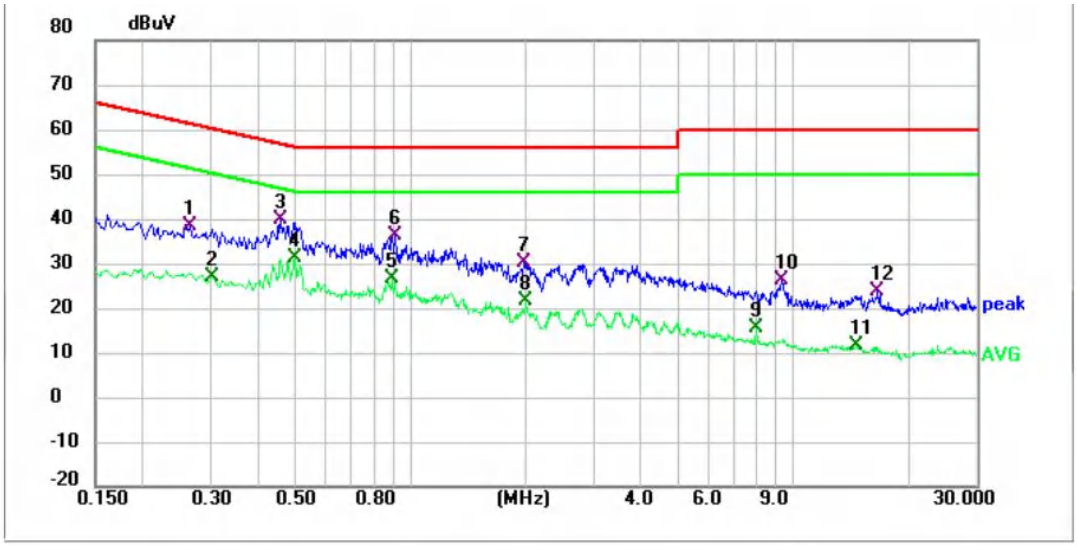


6.2.1.3. Test Result

Pass

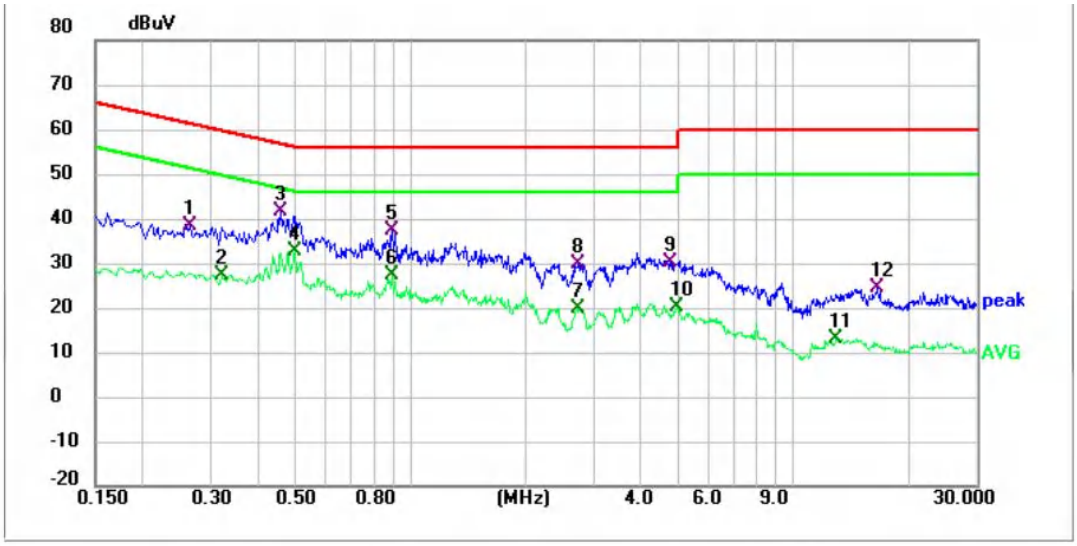
6.2.1.4. Test Data

Mode2 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2660	28.34	10.10	38.44	61.24	22.80	QP
2	0.3020	16.85	10.10	26.95	50.19	23.24	AVG
3	0.4580	29.83	10.11	39.94	56.73	16.79	QP
4 *	0.4980	21.04	10.11	31.15	46.03	14.88	AVG
5	0.8940	16.57	10.16	26.73	46.00	19.27	AVG
6	0.9140	26.26	10.16	36.42	56.00	19.58	QP
7	1.9780	19.91	10.24	30.15	56.00	25.85	QP
8	2.0020	11.25	10.25	21.50	46.00	24.50	AVG
9	8.0020	5.28	10.40	15.68	50.00	34.32	AVG
10	9.2660	15.68	10.41	26.09	60.00	33.91	QP
11	14.6460	0.67	10.81	11.48	50.00	38.52	AVG
12	16.5860	12.81	10.83	23.64	60.00	36.36	QP

Mode2 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2660	28.34	10.10	38.44	61.24	22.80	QP
2	0.3220	17.28	10.10	27.38	49.66	22.28	AVG
3	0.4580	31.33	10.11	41.44	56.73	15.29	QP
4 *	0.4980	22.54	10.11	32.65	46.03	13.38	AVG
5	0.8940	26.99	10.16	37.15	56.00	18.85	QP
6	0.8940	17.07	10.16	27.23	46.00	18.77	AVG
7	2.7340	9.55	10.31	19.86	46.00	26.14	AVG
8	2.7420	19.53	10.31	29.84	56.00	26.16	QP
9	4.7619	19.91	10.39	30.30	56.00	25.70	QP
10	4.9300	9.75	10.39	20.14	46.00	25.86	AVG
11	12.9740	2.36	10.71	13.07	50.00	36.93	AVG
12	16.5860	13.81	10.83	24.64	60.00	35.36	QP

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
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.

6.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.2 °C	Humidity:	56.7 %	Atmospheric Pressure:	103 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

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
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

6.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.1 °C	Humidity:	56 %	Atmospheric Pressure:	103 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

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
Procedure:	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:	56.7 %	Atmospheric Pressure:	103 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

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
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.6 °C	Humidity:	56 %	Atmospheric Pressure:	103 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

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.

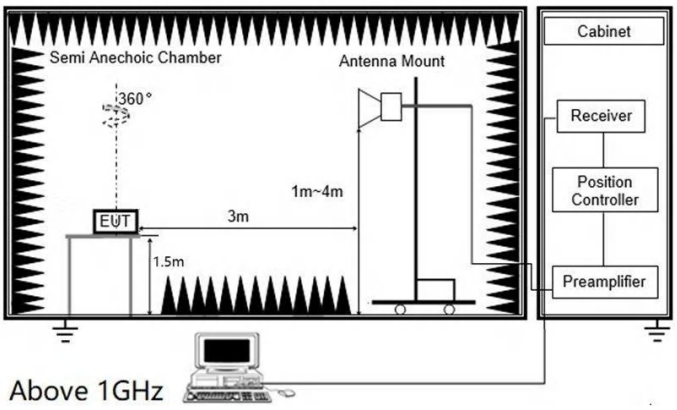
6.2.6. Radiated band edge emission

<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</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</td></tr>
</table>

6.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.5 °C	Humidity:	56.8 %	Atmospheric Pressure:	103.1 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

6.2.6.2. Test Setup Diagram

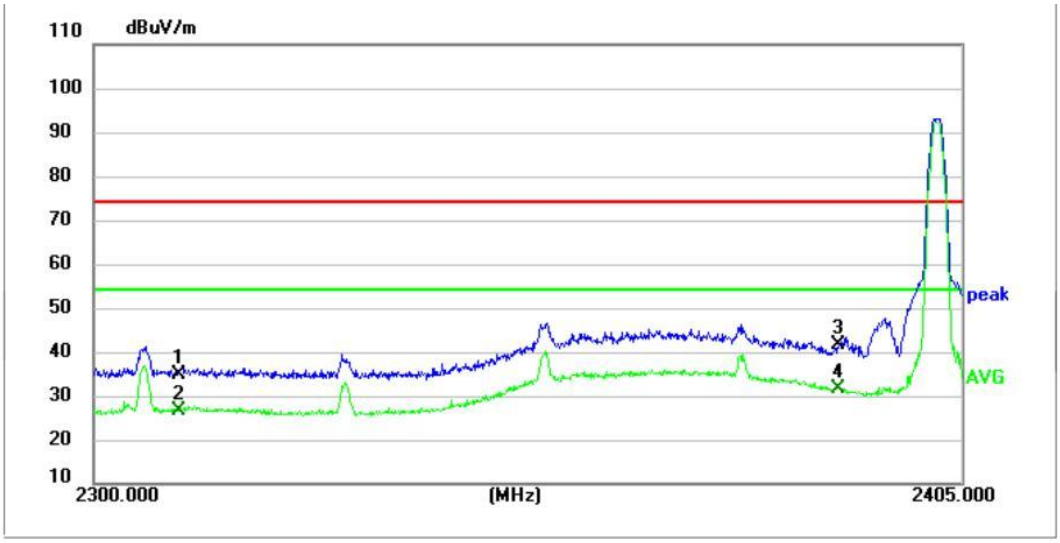


6.2.6.3. Test Result

Pass

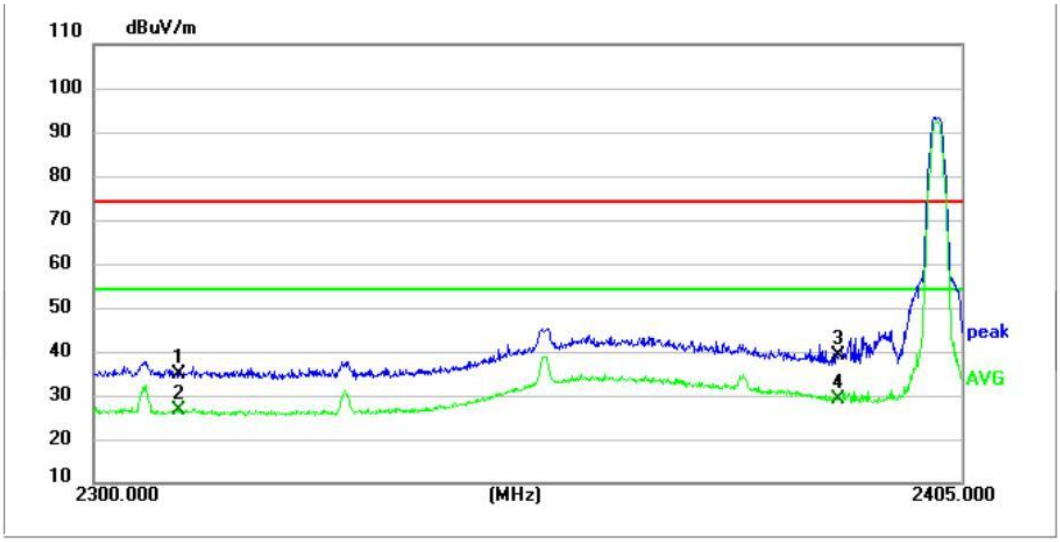
6.2.6.4. Test Data

Mode1 / Polarization: Horizontal / CH: L



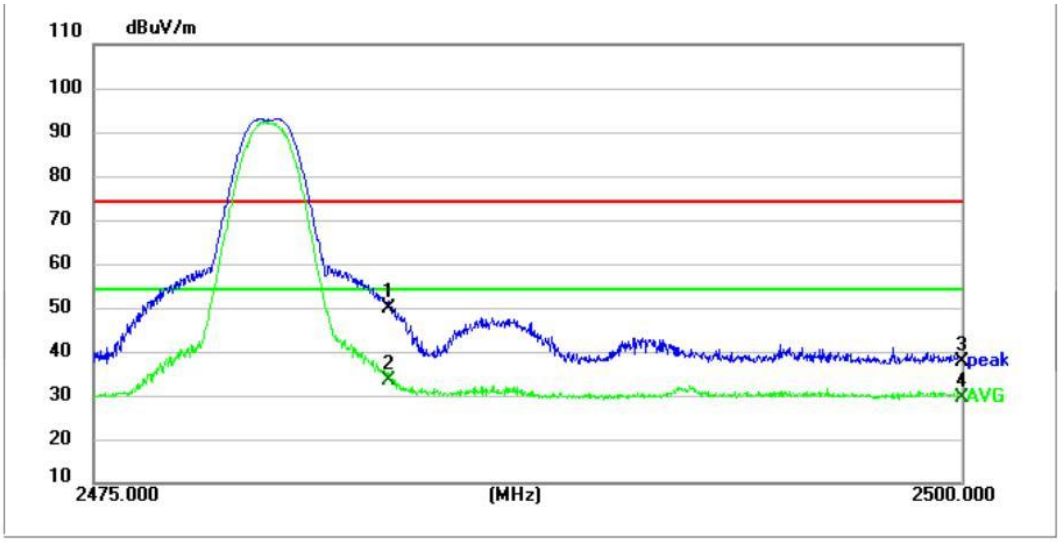
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	49.77	-14.88	34.89	74.00	39.11	peak
2	2310.0000	41.65	-14.88	26.77	54.00	27.23	AVG
3	2390.0000	56.87	-15.14	41.73	74.00	32.27	peak
4 *	2390.0000	46.66	-15.14	31.52	54.00	22.48	AVG

Mode1 / Polarization: Vertical / CH: L



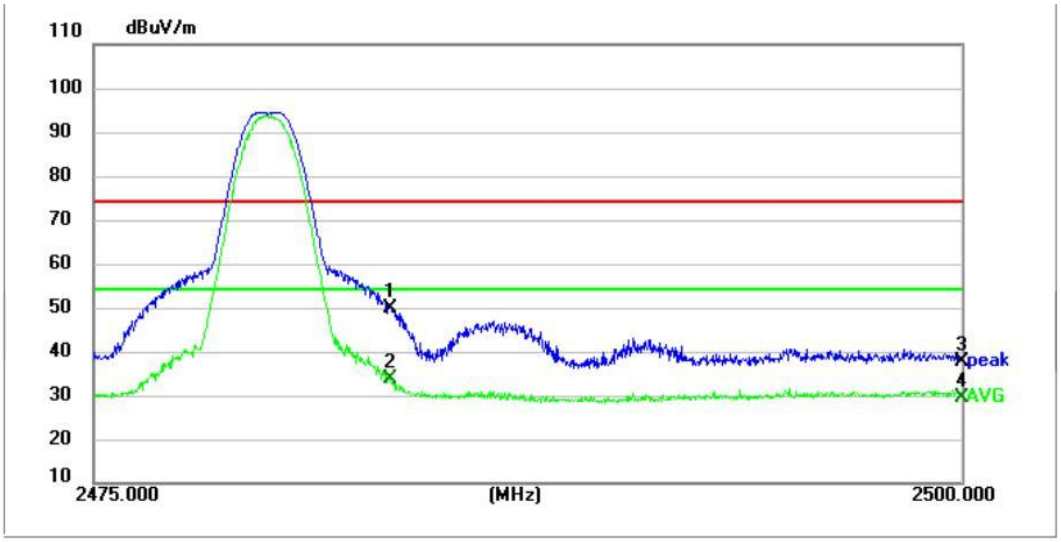
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	49.71	-14.88	34.83	74.00	39.17	peak
2	2310.0000	41.63	-14.88	26.75	54.00	27.25	AVG
3	2390.0000	54.14	-15.14	39.00	74.00	35.00	peak
4 *	2390.0000	44.41	-15.14	29.27	54.00	24.73	AVG

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	65.63	-15.63	50.00	74.00	24.00	peak
2 *	2483.5000	49.17	-15.63	33.54	54.00	20.46	AVG
3	2500.0000	53.45	-15.68	37.77	74.00	36.23	peak
4	2500.0000	45.10	-15.68	29.42	54.00	24.58	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	65.31	-15.63	49.68	74.00	24.32	peak
2 *	2483.5000	49.21	-15.63	33.58	54.00	20.42	AVG
3	2500.0000	53.43	-15.68	37.75	74.00	36.25	peak
4	2500.0000	45.21	-15.68	29.53	54.00	24.47	AVG

6.2.7. Radiated Spurious Emission (below 1GHz)

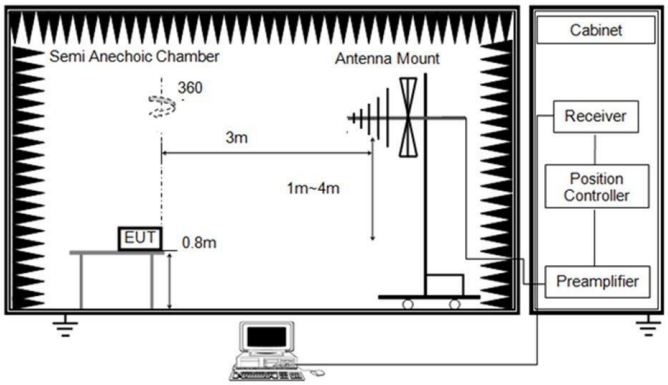
<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<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</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 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.</td></tr>
</table>

6.2.7.1. E.U.T. Operation

<table>
<tr><td colspan="6">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>23.3 °C</td><td>Humidity:</td><td>55.8 %</td><td>Atmospheric Pressure:</td><td>103.1 kPa</td></tr>
<tr><td colspan="2">Pre test mode:</td><td colspan="4">Mode1, Mode2</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 (Mode2) is recorded in the report</td></tr>
</table>

6.2.7.2. Test Setup Diagram



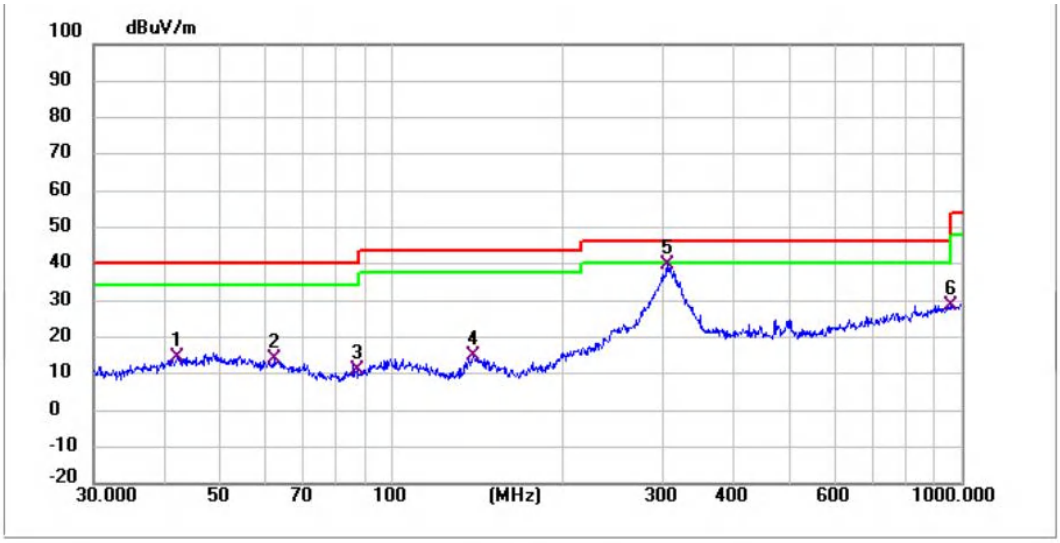
Below 1 GHz and above 30 MHz

6.2.7.3. Test Result

Pass

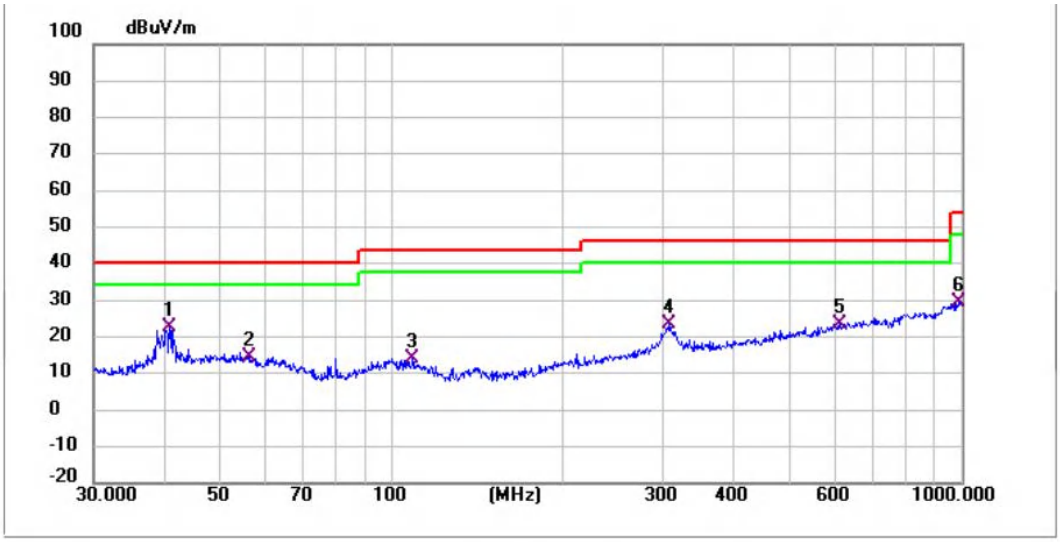
6.2.7.4. Test Data

Mode2 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.0066	43.50	-28.95	14.55	40.00	25.45	QP
2	62.4313	44.55	-30.61	13.94	40.00	26.06	QP
3	87.1116	44.04	-33.05	10.99	40.00	29.01	QP
4	138.8734	49.15	-34.08	15.07	43.50	28.43	QP
5 *	305.6800	67.60	-27.60	40.00	46.00	6.00	QP
6	958.7943	44.66	-15.91	28.75	46.00	17.25	QP

Mode2 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	40.7016	51.83	-29.37	22.46	40.00	17.54	QP
2	56.3948	44.30	-29.59	14.71	40.00	25.29	QP
3	109.0286	44.44	-30.52	13.92	43.50	29.58	QP
4	306.7537	51.22	-27.60	23.62	46.00	22.38	QP
5	614.2142	44.13	-20.50	23.63	46.00	22.37	QP
6	993.0114	44.91	-15.46	29.45	54.00	24.55	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)

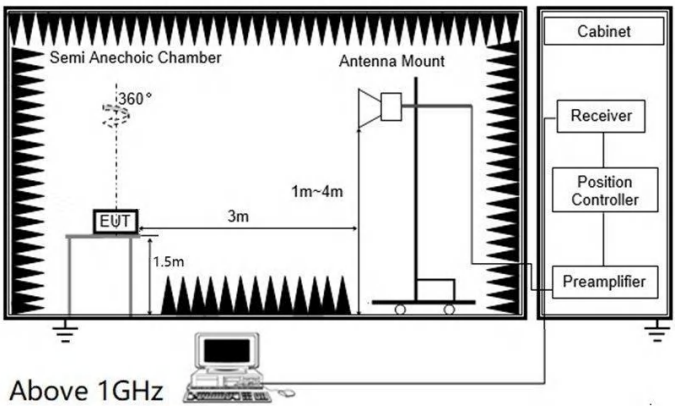
<table>
<tr><td>Test Requirement:</td><td>Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<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</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</td></tr>
</table>

6.2.8.1. E.U.T. Operation

<table>
<tr><td colspan="6">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>22.3 °C</td><td>Humidity:</td><td>55.6 %</td><td>Atmospheric Pressure:</td><td>103.1 kPa</td></tr>
<tr><td colspan="2">Pre test mode:</td><td colspan="4">Mode1, Mode2</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 (Mode1) is recorded in the report</td></tr>
</table>

6.2.8.2. Test Setup Diagram

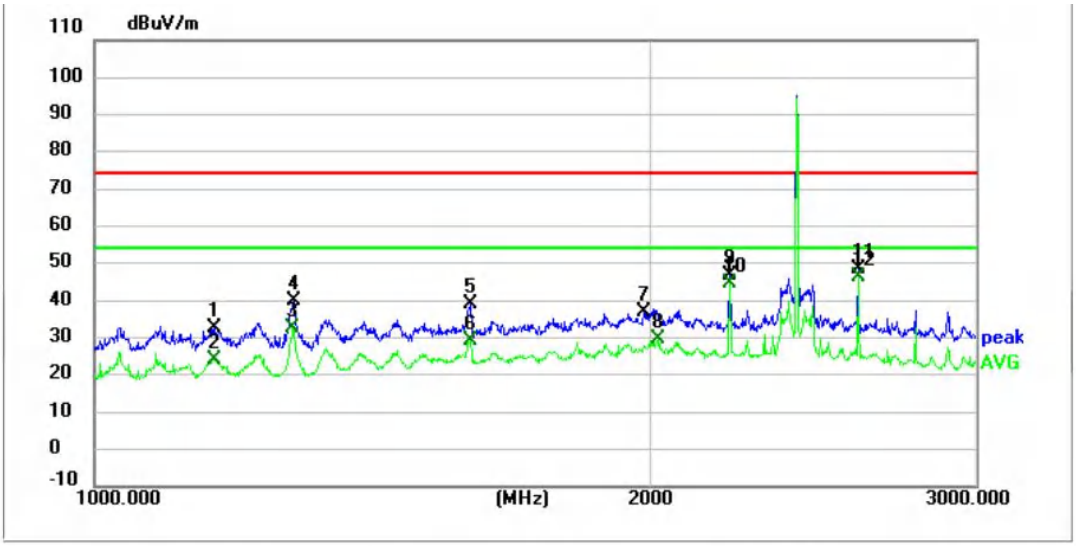


6.2.8.3. Test Result

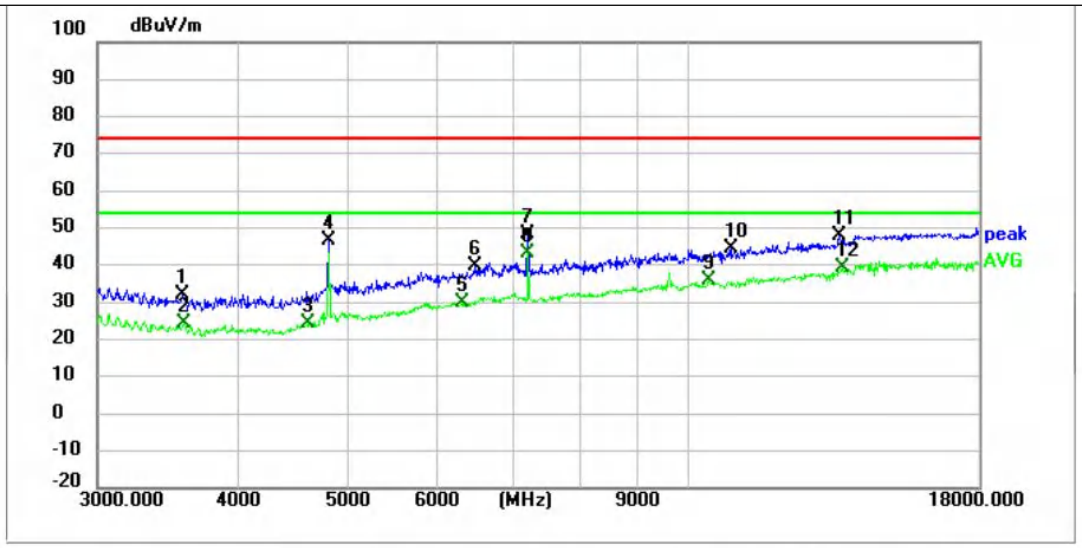
Pass

6.2.8.4. Test Data

Mode1 / Polarization: Horizontal / CH: L

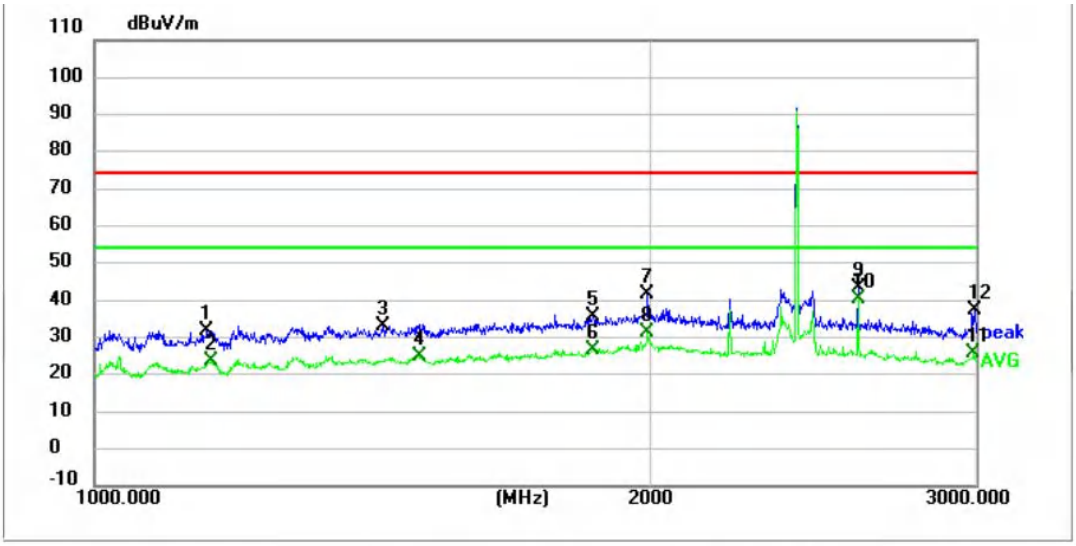


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1161.4000	52.38	-19.88	32.50	74.00	41.50	peak
2	1162.8000	44.12	-19.88	24.24	54.00	29.76	AVG
3	1281.4000	51.84	-19.10	32.74	54.00	21.26	AVG
4	1282.0000	59.05	-19.09	39.96	74.00	34.04	peak
5	1597.4000	56.46	-17.55	38.91	74.00	35.09	peak
6	1598.8000	46.72	-17.55	29.17	54.00	24.83	AVG
7	1985.2000	50.73	-13.88	36.85	74.00	37.15	peak
8	2018.0000	43.26	-13.64	29.62	54.00	24.38	AVG
9	2210.2000	61.13	-14.18	46.95	74.00	27.05	peak
10	2210.2000	58.95	-14.18	44.77	54.00	9.23	AVG
11	2594.2000	64.39	-15.96	48.43	74.00	25.57	peak
12 *	2594.2000	62.23	-15.96	46.27	54.00	7.73	AVG

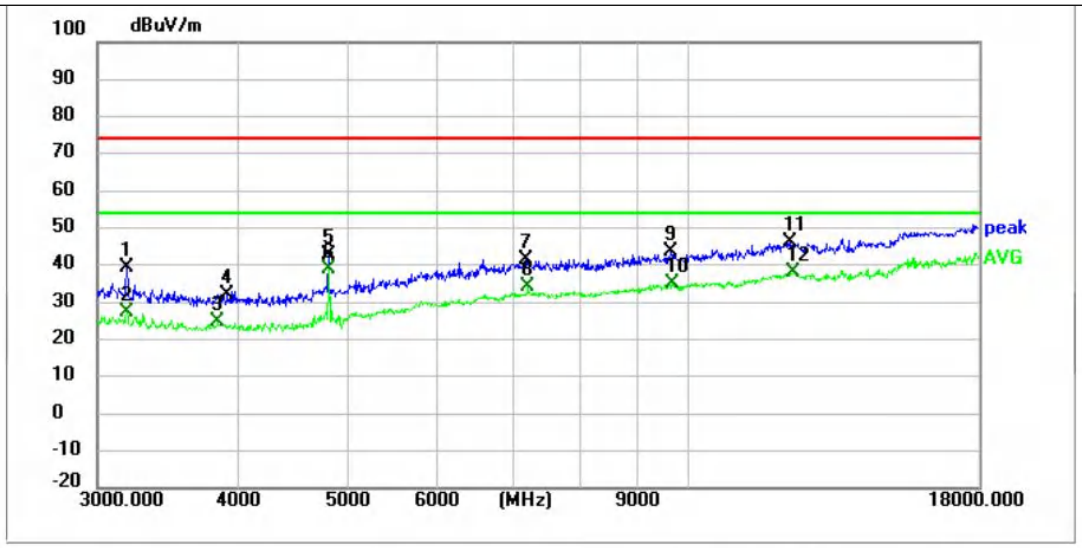


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3571.5000	47.51	-15.55	31.96	74.00	42.04	peak
2	3585.0000	39.95	-15.52	24.43	54.00	29.57	AVG
3	4618.5000	37.29	-13.03	24.26	54.00	29.74	AVG
4	4804.5000	59.14	-12.39	46.75	74.00	27.25	peak
5	6318.0000	38.11	-8.21	29.90	54.00	24.10	AVG
6	6466.5000	47.29	-7.44	39.85	74.00	34.15	peak
7	7207.5000	53.65	-5.24	48.41	74.00	25.59	peak
8 *	7207.5000	48.58	-5.24	43.34	54.00	10.66	AVG
9	10419.0000	38.39	-2.61	35.78	54.00	18.22	AVG
10	10882.5000	46.68	-2.10	44.58	74.00	29.42	peak
11	13585.5000	47.41	0.72	48.13	74.00	25.87	peak
12	13657.5000	38.57	0.68	39.25	54.00	14.75	AVG

Mode1 / Polarization: Vertical / CH: L

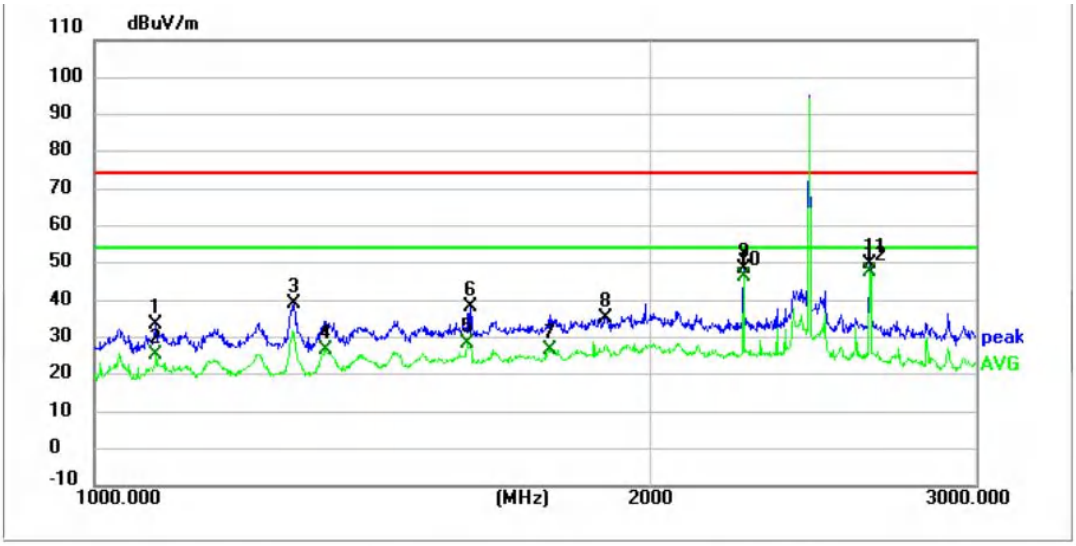


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1152.2000	51.73	-19.89	31.84	74.00	42.16	peak
2	1156.8000	43.36	-19.88	23.48	54.00	30.52	AVG
3	1433.2000	51.45	-18.31	33.14	74.00	40.86	peak
4	1501.8000	42.96	-17.99	24.97	54.00	29.03	AVG
5	1862.2000	51.07	-15.51	35.56	74.00	38.44	peak
6	1863.2000	42.19	-15.49	26.70	54.00	27.30	AVG
7	1994.8000	55.30	-13.72	41.58	74.00	32.42	peak
8	1994.8000	45.12	-13.72	31.40	54.00	22.60	AVG
9	2594.2000	59.34	-15.96	43.38	74.00	30.62	peak
10 *	2594.2000	56.31	-15.96	40.35	54.00	13.65	AVG
11	2993.8000	42.61	-17.02	25.59	54.00	28.41	AVG
12	2999.4000	54.30	-17.01	37.29	74.00	36.71	peak

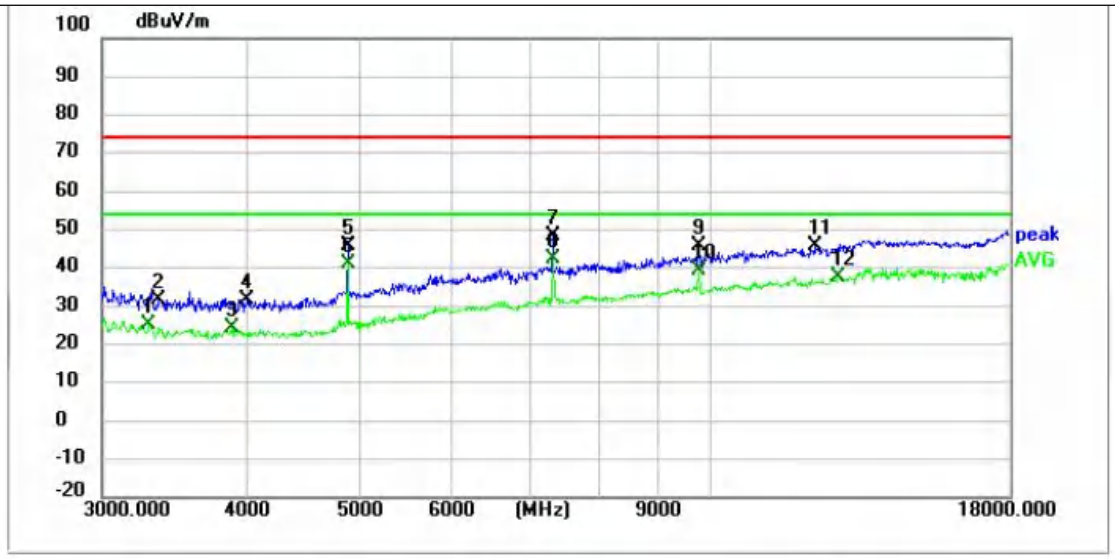


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3187.5000	54.60	-15.44	39.16	74.00	34.84	peak
2	3187.5000	42.97	-15.44	27.53	54.00	26.47	AVG
3	3841.5000	39.15	-14.56	24.59	54.00	29.41	AVG
4	3918.0000	46.74	-14.52	32.22	74.00	41.78	peak
5	4804.5000	55.14	-12.39	42.75	74.00	31.25	peak
6 *	4806.0000	51.34	-12.38	38.96	54.00	15.04	AVG
7	7167.0000	46.71	-5.39	41.32	74.00	32.68	peak
8	7207.5000	39.34	-5.24	34.10	54.00	19.90	AVG
9	9634.5000	46.34	-2.87	43.47	74.00	30.53	peak
10	9657.0000	37.95	-2.90	35.05	54.00	18.95	AVG
11	12286.5000	47.32	-1.10	46.22	74.00	27.78	peak
12	12363.0000	39.19	-1.09	38.10	54.00	15.90	AVG

Mode1 / Polarization: Horizontal / CH: M

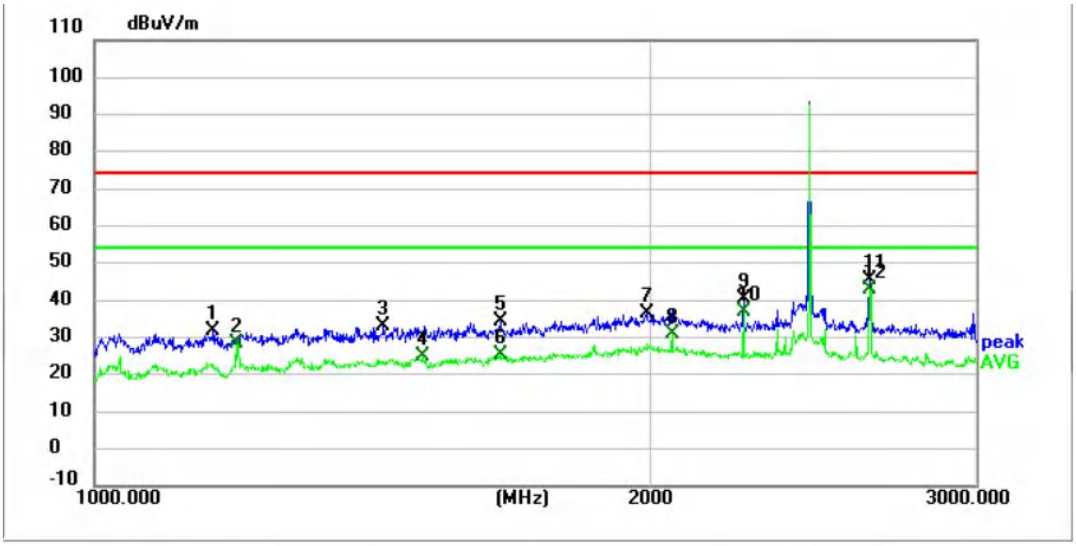


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1079.8000	54.02	-20.55	33.47	74.00	40.53	peak
2	1080.2000	45.81	-20.55	25.26	54.00	28.74	AVG
3	1282.6000	58.08	-19.09	38.99	74.00	35.01	peak
4	1333.6000	45.27	-18.74	26.53	54.00	27.47	AVG
5	1593.4000	45.97	-17.56	28.41	54.00	25.59	AVG
6	1599.2000	55.78	-17.55	38.23	74.00	35.77	peak
7	1767.8000	43.28	-16.46	26.82	54.00	27.18	AVG
8	1893.6000	50.38	-15.06	35.32	74.00	38.68	peak
9	2248.2000	62.79	-14.50	48.29	74.00	25.71	peak
10	2248.2000	60.97	-14.50	46.47	54.00	7.53	AVG
11	2632.2000	65.91	-16.06	49.85	74.00	24.15	peak
12 *	2632.2000	63.91	-16.06	47.85	54.00	6.15	AVG

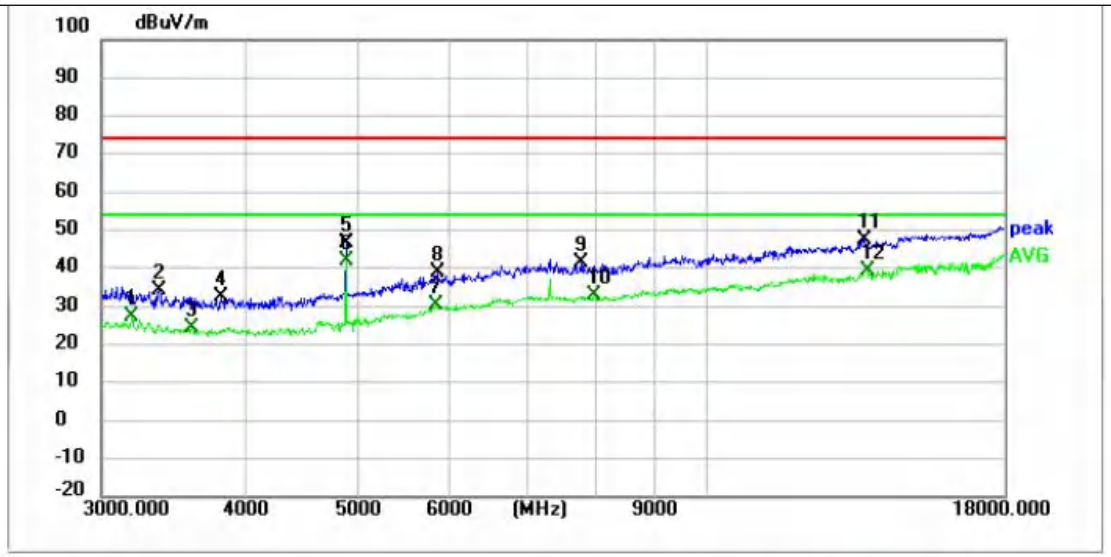


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3298.5000	40.93	-15.55	25.38	54.00	28.62	AVG
2	3363.0000	47.21	-15.57	31.64	74.00	42.36	peak
3	3879.0000	38.78	-14.59	24.19	54.00	29.81	AVG
4	4000.5000	45.84	-14.24	31.60	74.00	42.40	peak
5	4881.0000	57.72	-11.92	45.80	74.00	28.20	peak
6	4881.0000	52.81	-11.92	40.89	54.00	13.11	AVG
7	7321.5000	53.79	-5.35	48.44	74.00	25.56	peak
8 *	7321.5000	47.91	-5.35	42.56	54.00	11.44	AVG
9	9762.0000	49.10	-3.10	46.00	74.00	28.00	peak
10	9762.0000	42.60	-3.10	39.50	54.00	14.50	AVG
11	12282.0000	46.85	-1.08	45.77	74.00	28.23	peak
12	12835.5000	37.95	-0.39	37.56	54.00	16.44	AVG

Mode1 / Polarization: Vertical / CH: M

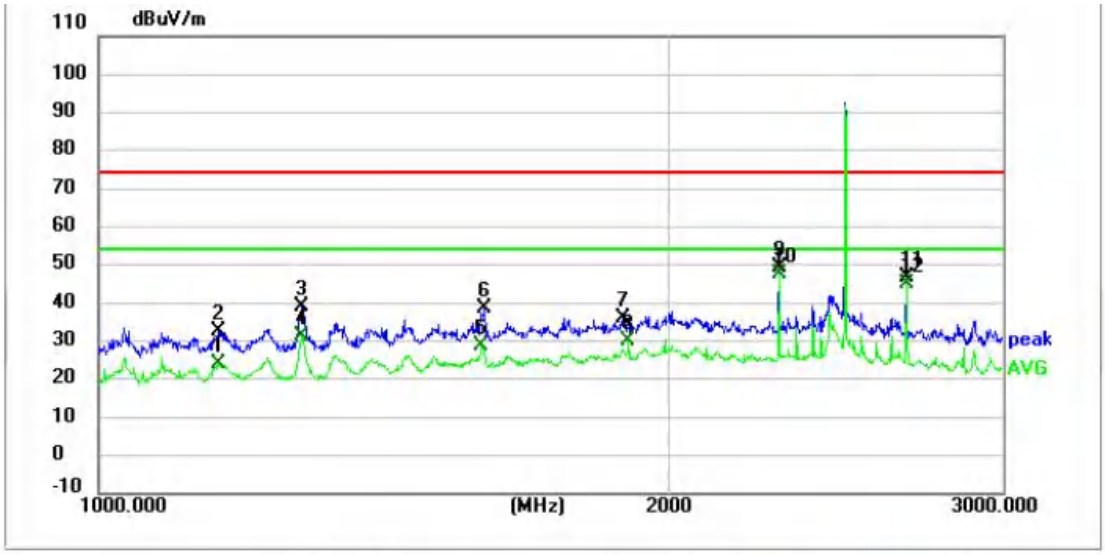


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1160.8000	51.88	-19.88	32.00	74.00	42.00	peak
2	1194.6000	48.17	-19.88	28.29	54.00	25.71	AVG
3	1434.6000	51.37	-18.30	33.07	74.00	40.93	peak
4	1506.0000	43.07	-18.00	25.07	54.00	28.93	AVG
5	1660.8000	51.65	-17.19	34.46	74.00	39.54	peak
6	1660.8000	42.48	-17.19	25.29	54.00	28.71	AVG
7	1992.2000	50.08	-13.78	36.30	74.00	37.70	peak
8	2056.2000	44.57	-13.66	30.91	54.00	23.09	AVG
9	2248.2000	54.72	-14.50	40.22	74.00	33.78	peak
10	2248.2000	51.48	-14.50	36.98	54.00	17.02	AVG
11	2632.2000	61.73	-16.06	45.67	74.00	28.33	peak
12 *	2632.2000	58.86	-16.06	42.80	54.00	11.20	AVG

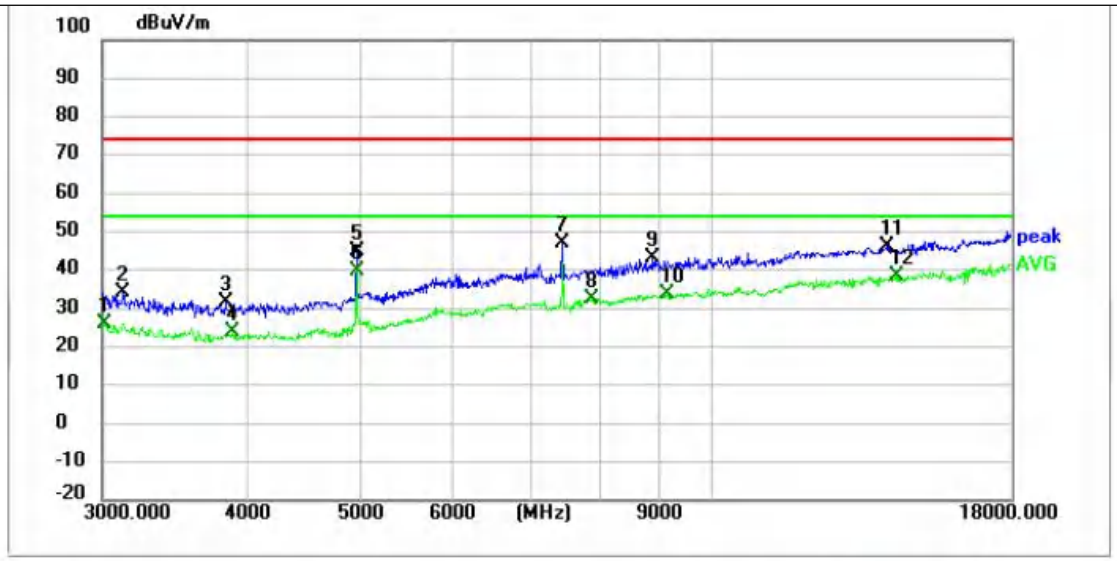


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3190.5000	42.90	-15.45	27.45	54.00	26.55	AVG
2	3366.0000	49.94	-15.57	34.37	74.00	39.63	peak
3	3597.0000	39.92	-15.51	24.41	54.00	29.59	AVG
4	3811.5000	47.39	-14.68	32.71	74.00	41.29	peak
5	4881.0000	58.63	-11.92	46.71	74.00	27.29	peak
6 *	4881.0000	54.04	-11.92	42.12	54.00	11.88	AVG
7	5835.0000	39.25	-9.09	30.16	54.00	23.84	AVG
8	5851.5000	47.91	-9.00	38.91	74.00	35.09	peak
9	7770.0000	46.45	-5.15	41.30	74.00	32.70	peak
10	7980.0000	37.66	-4.57	33.09	54.00	20.91	AVG
11	13645.5000	46.99	0.71	47.70	74.00	26.30	peak
12	13752.0000	38.70	0.60	39.30	54.00	14.70	AVG

Mode1 / Polarization: Horizontal / CH: H

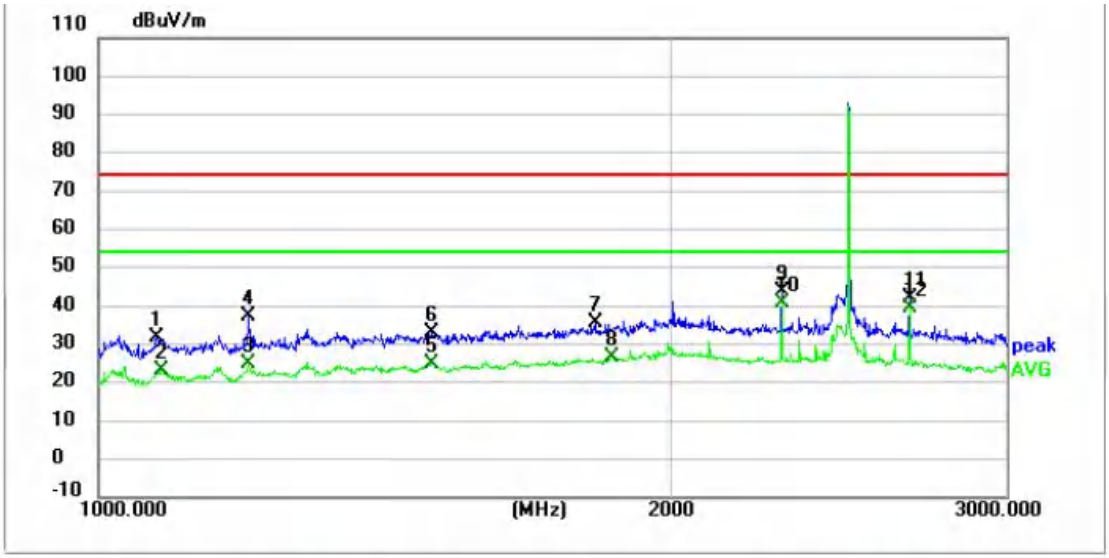


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1157.0000	43.94	-19.88	24.06	54.00	29.94	AVG
2	1157.4000	52.34	-19.88	32.46	74.00	41.54	peak
3	1281.6000	58.01	-19.09	38.92	74.00	35.08	peak
4	1281.6000	50.25	-19.09	31.16	54.00	22.84	AVG
5	1593.4000	46.22	-17.56	28.66	54.00	25.34	AVG
6	1599.4000	56.01	-17.57	38.44	74.00	35.56	peak
7	1893.4000	51.21	-15.07	36.14	74.00	37.86	peak
8	1904.2000	45.11	-14.92	30.19	54.00	23.81	AVG
9	2288.2000	63.94	-14.74	49.20	74.00	24.80	peak
10 *	2288.2000	62.44	-14.74	47.70	54.00	6.30	AVG
11	2672.2000	63.16	-16.25	46.91	74.00	27.09	peak
12	2672.2000	61.34	-16.25	45.09	54.00	8.91	AVG

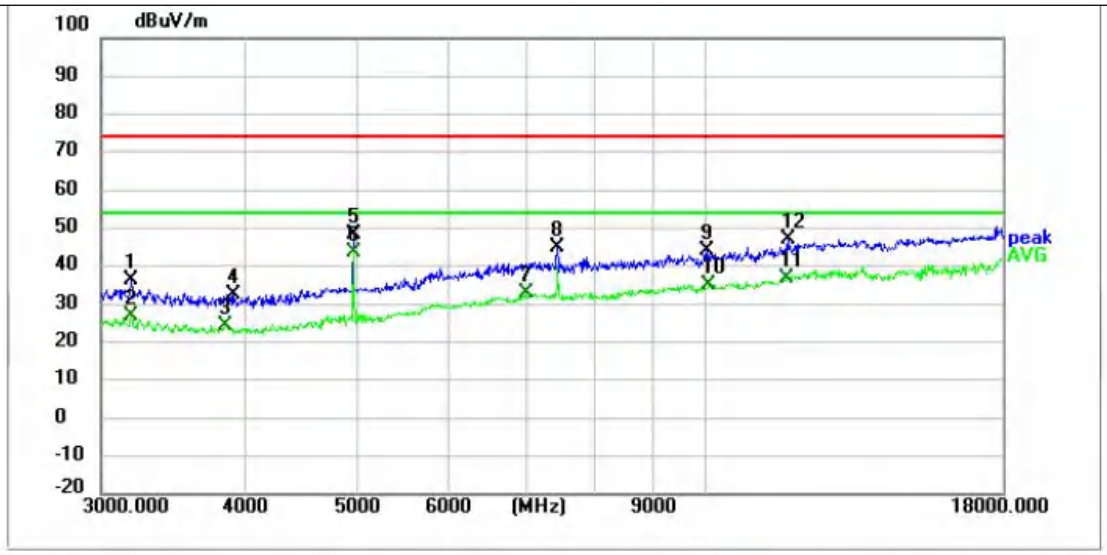


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3021.0000	41.75	-15.49	26.26	54.00	27.74	AVG
2	3129.0000	49.61	-15.40	34.21	74.00	39.79	peak
3	3832.5000	46.17	-14.60	31.57	74.00	42.43	peak
4	3877.5000	38.56	-14.59	23.97	54.00	30.03	AVG
5	4962.0000	56.29	-11.57	44.72	74.00	29.28	peak
6 *	4962.0000	51.19	-11.57	39.62	54.00	14.38	AVG
7	7440.0000	52.50	-5.48	47.02	74.00	26.98	peak
8	7890.0000	37.42	-4.84	32.58	54.00	21.42	AVG
9	8893.5000	46.04	-3.00	43.04	74.00	30.96	peak
10	9130.5000	36.49	-2.89	33.60	54.00	20.40	AVG
11	14088.0000	44.92	1.14	46.06	74.00	27.94	peak
12	14371.5000	37.59	1.12	38.71	54.00	15.29	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1073.2000	52.32	-20.57	31.75	74.00	42.25	peak
2	1079.2000	43.96	-20.55	23.41	54.00	30.59	AVG
3	1199.4000	44.62	-19.88	24.74	54.00	29.26	AVG
4	1200.4000	57.24	-19.87	37.37	74.00	36.63	peak
5	1498.0000	42.88	-18.00	24.88	54.00	29.12	AVG
6	1498.6000	50.88	-17.99	32.89	74.00	41.11	peak
7	1825.2000	51.33	-15.84	35.49	74.00	38.51	peak
8	1862.8000	42.15	-15.50	26.65	54.00	27.35	AVG
9	2288.2000	58.33	-14.74	43.59	74.00	30.41	peak
10 *	2288.2000	55.68	-14.74	40.94	54.00	13.06	AVG
11	2672.2000	58.37	-16.25	42.12	74.00	31.88	peak
12	2672.2000	55.88	-16.25	39.63	54.00	14.37	AVG



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3189.0000	51.62	-15.44	36.18	74.00	37.82	peak
2	3189.0000	42.46	-15.44	27.02	54.00	26.98	AVG
3	3847.5000	38.87	-14.54	24.33	54.00	29.67	AVG
4	3918.0000	47.17	-14.52	32.65	74.00	41.35	peak
5	4962.0000	60.03	-11.57	48.46	74.00	25.54	peak
6 *	4962.0000	55.40	-11.57	43.83	54.00	10.17	AVG
7	6994.5000	38.69	-5.83	32.86	54.00	21.14	AVG
8	7440.0000	50.35	-5.48	44.87	74.00	29.13	peak
9	10008.0000	46.74	-2.83	43.91	74.00	30.09	peak
10	10071.0000	38.00	-2.73	35.27	54.00	18.73	AVG
11	11709.0000	38.61	-1.67	36.94	54.00	17.06	AVG
12	11754.0000	48.54	-1.60	46.94	74.00	27.06	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.

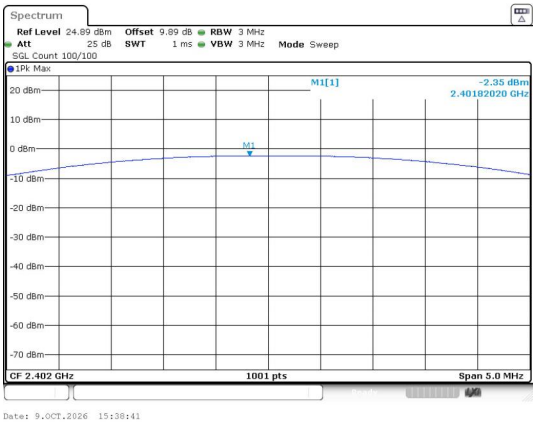
7. APPENDIX REPORT

7.1. Conducted Output Power

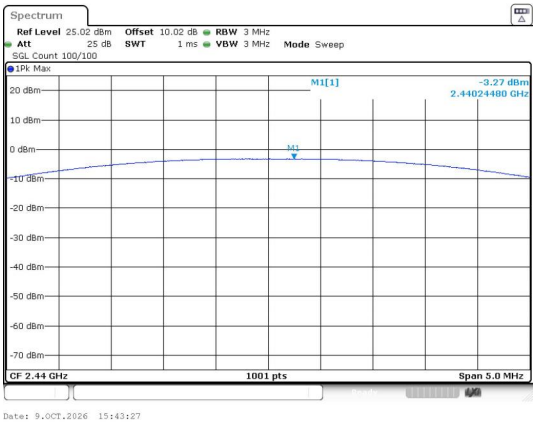
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Verdict
BLE 1M	0	-2.350	0.58	≤30	PASS
	19	-3.270	0.47	≤30	PASS
	39	-3.830	0.41	≤30	PASS

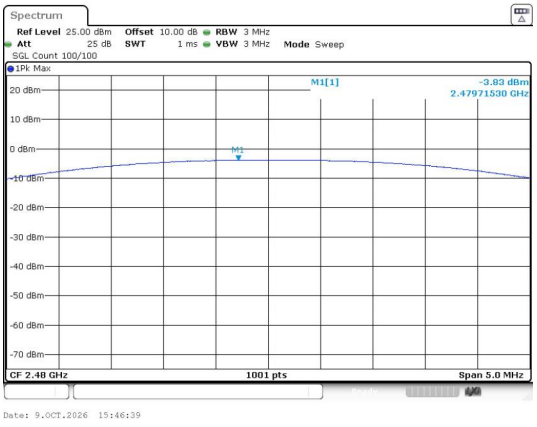
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



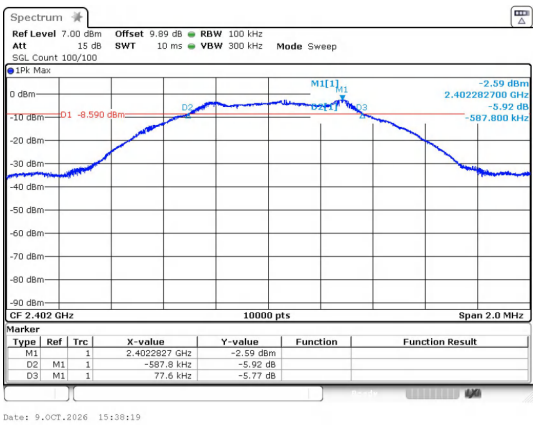
Peak Output Power
BLE 1M_Channel 39

7.2. 6dB Bandwidth

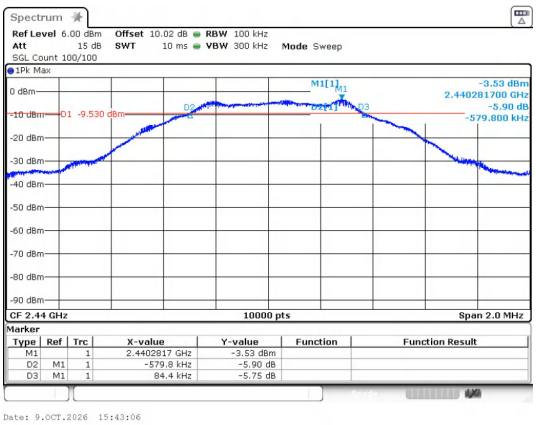
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Verdict
BLE 1M	0	2402	0.6700	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6900		PASS

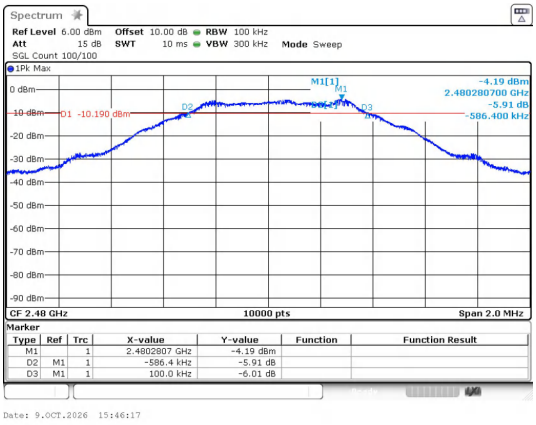
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



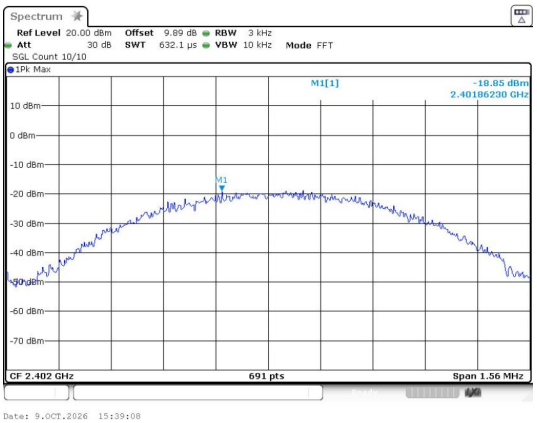
BLE 1M_Channel 39

7.3. Power Spectral Density

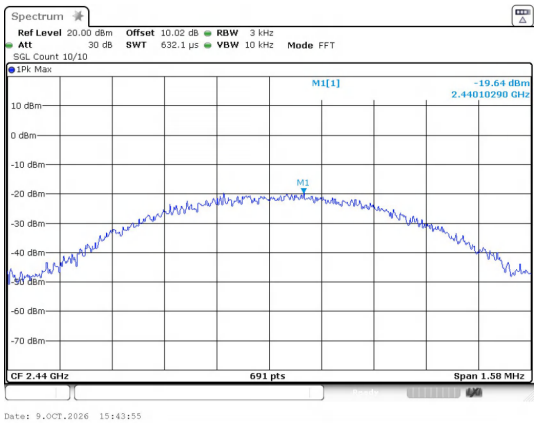
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	0	-18.850	≤8	PASS
BLE 1M	19	-19.640	≤8	PASS
BLE 1M	39	-20.100	≤8	PASS

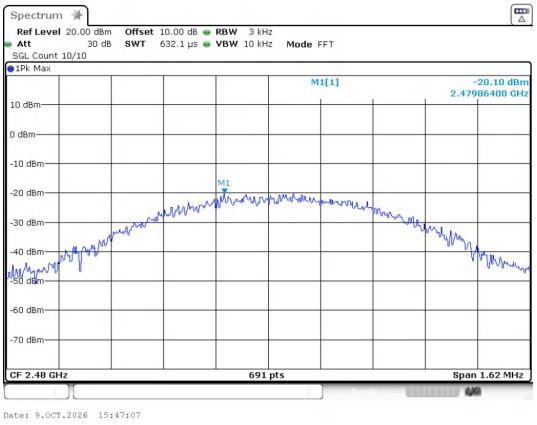
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



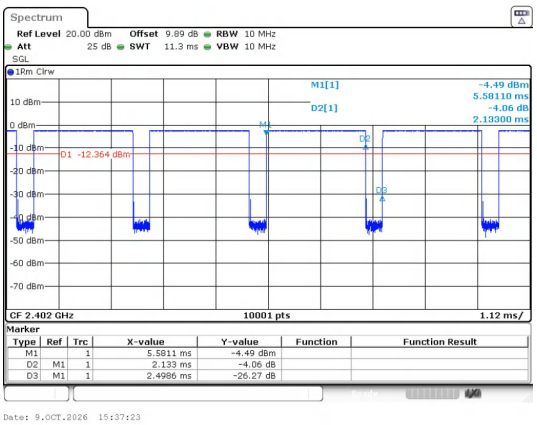
BLE 1M_Channel 39

7.4. Duty Cycle

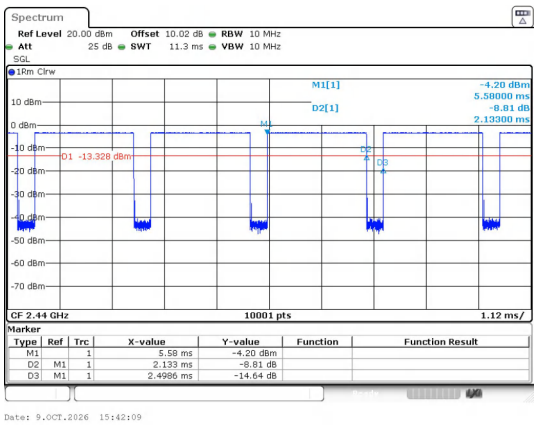
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.1330	2.499	85.37	0.8537	0.6869	0.4688
	19	2.1330	2.499	85.37	0.8537	0.6869	0.4688
	39	2.1330	2.498	85.37	0.8537	0.6869	0.4688

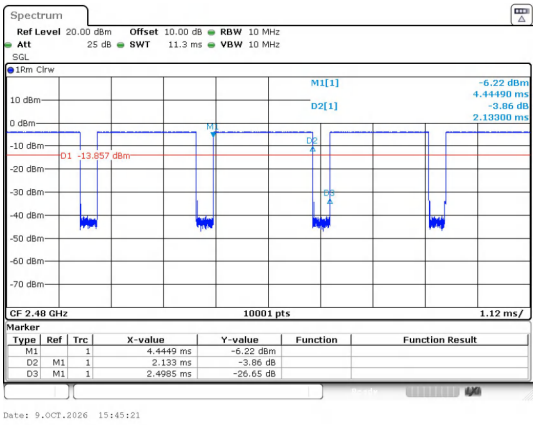
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



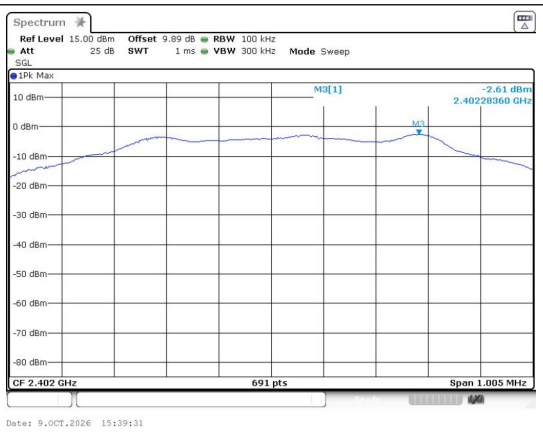
BLE 1M_Channel 39

7.5. Conducted Spurious & Band Edge Emission

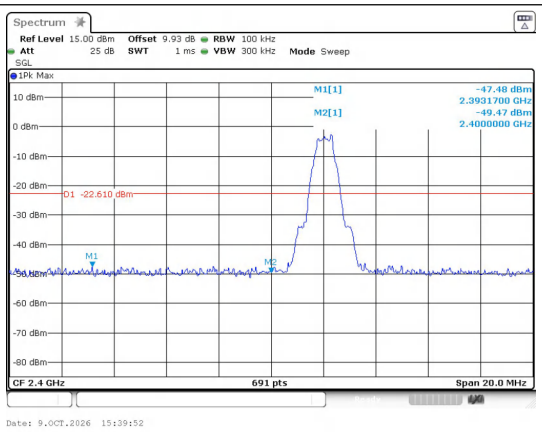
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
BLE 1M	0	2393.17	-47.476	-22.61	-24.866	PASS
		2400.00	-49.470	-22.61	-26.860	PASS
		22112.2	-38.341	-22.61	-15.731	PASS
	19	22023.2	-39.314	-23.55	-15.764	PASS
	39	2483.50	-48.100	-24.17	-23.930	PASS
		22008.2	-38.103	-24.17	-13.933	PASS
Note: input compensation coeffcient (dB)= Cable Loss (dB)						

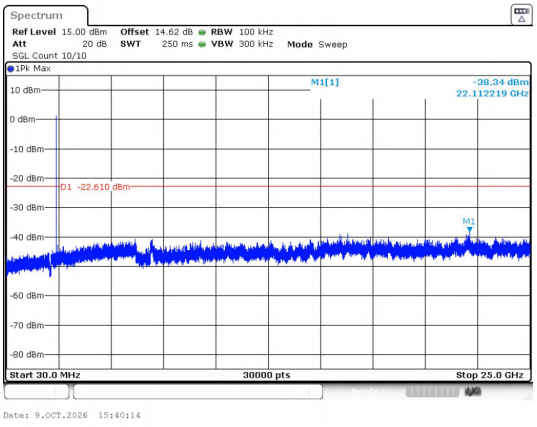
Test Graphs



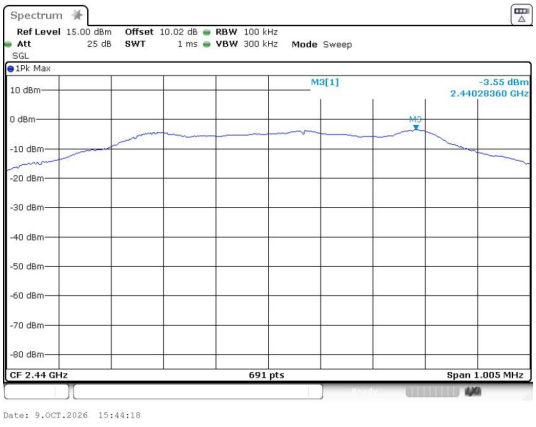
In-Band Reference Level
BLE 1M_Channel 0



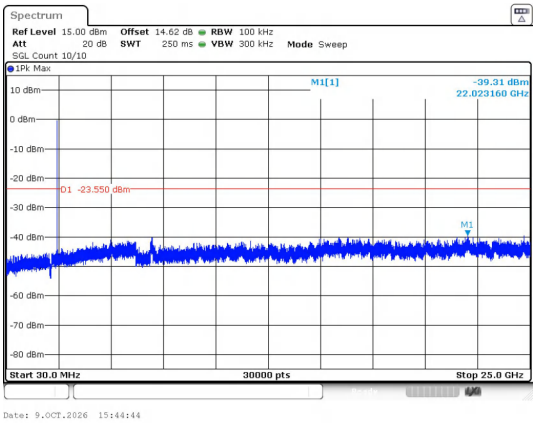
Out Of Band Emission
BLE 1M_Channel 0



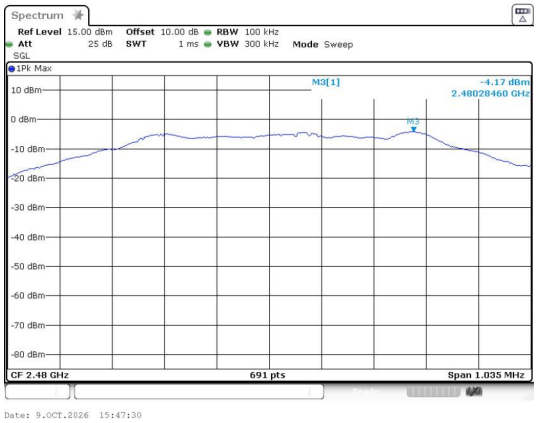
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



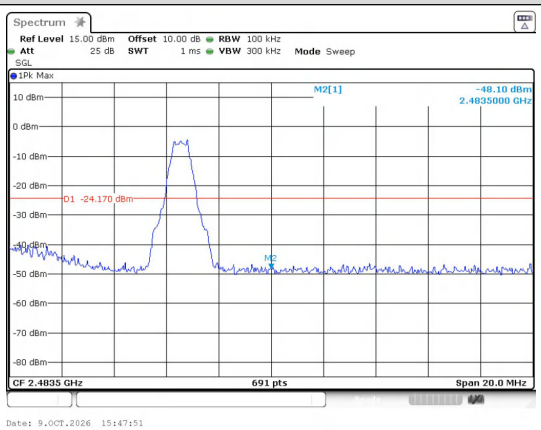
In-Band Reference Level
BLE 1M_Channel 19



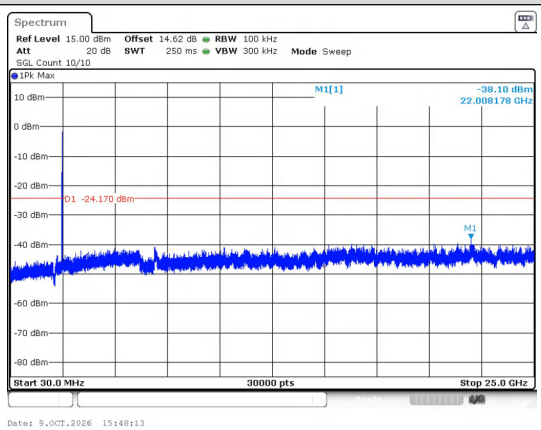
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



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-----