

**FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 Issue 4**

TEST REPORT

For

Bluetooth Speaker

FCC MODEL NUMBER: PARTYBOX 330, PARTYBOX 330C

IC MODEL NUMBER: PARTYBOX 330C

REPORT NUMBER: 4792182271-RF-1

ISSUE DATE: Mar. 12,2026

FCC ID: APIJBLPB330C

IC: 6132A-JBLPB330C

Prepared for

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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	3/12/2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2020, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Peak Output Power	ANSI C63.10-2020, Clause 11.9.1.2	FCC Part 15.247 (b)(3) RSS-247 Clause 6.3.2	Pass
Conducted Average Output Power	ANSI C63.10-2020, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3) RSS-247 Clause 6.3.2	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2020, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 6.3.1 (a) RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2020, Clause 11.10.2	FCC Part 15.247 (e) RSS-247 Clause 6.3.1 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2020, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 6.6	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2020, Clause 11.12	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 6.6 RSS-GEN Clause 8.9	Pass
Duty Cycle	ANSI C63.10-2020, Clause 11.6	None; for reporting purposes only.	Pass

Note: For ISED, this report is also performed according to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 standards.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <FCC 47 CFR PART 15 SUBPART C ISED RSS-247 Issue 4> when <Simple Acceptance> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS.....	6
2. TEST METHODOLOGY.....	8
3. FACILITIES AND ACCREDITATION.....	8
4. CALIBRATION AND UNCERTAINTY	9
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>9</i>
4.2. <i>MEASUREMENT UNCERTAINTY</i>	<i>9</i>
5. EQUIPMENT UNDER TEST	10
5.1. <i>DESCRIPTION OF EUT</i>	<i>10</i>
5.2. <i>CHANNEL LIST</i>	<i>10</i>
5.3. <i>MAXIMUM POWER</i>	<i>11</i>
5.4. <i>TEST CHANNEL CONFIGURATION</i>	<i>12</i>
5.5. <i>THE WORSE CASE POWER SETTING PARAMETER</i>	<i>12</i>
5.6. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>12</i>
5.7. <i>SUPPORT UNITS FOR SYSTEM TEST</i>	<i>13</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED.....	15
7. ANTENNA PORT TEST RESULTS	18
7.1. <i>CONDUCTED OUTPUT POWER</i>	<i>18</i>
7.2. <i>6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH</i>	<i>19</i>
7.3. <i>POWER SPECTRAL DENSITY</i>	<i>21</i>
7.4. <i>CONDUCTED BAND EDGE AND SPURIOUS EMISSION</i>	<i>22</i>
7.5. <i>DUTY CYCLE</i>	<i>24</i>
8. RADIATED TEST RESULTS	25
8.1. <i>RESTRICTED BANDEDGE-ANT BT0</i>	<i>33</i>
8.2. <i>SPURIOUS EMISSIONS(30 MHZ~1 GHZ)-ANT BT0</i>	<i>41</i>
8.3. <i>SPURIOUS EMISSIONS(1 GHZ~18 GHZ)-ANT BT0.....</i>	<i>49</i>
9. ANTENNA REQUIREMENT	61
10. AC POWER LINE CONDUCTED EMISSION	62
11. TEST DATA.....	67
11.1. <i>APPENDIX A: DTS BANDWIDTH</i>	<i>67</i>
11.1.1. <i>Test Result-Ant BT1.....</i>	<i>67</i>
11.1.2. <i>Test Graphs-Ant BT1</i>	<i>67</i>

11.2.	<i>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH.....</i>	<i>70</i>
11.2.1.	Test Result-Ant BT1.....	70
11.2.2.	Test Graphs-Ant BT1	70
11.3.	<i>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER.....</i>	<i>73</i>
11.3.1.	Test Result-Ant BT0.....	73
11.4.	<i>APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY.....</i>	<i>74</i>
11.4.1.	Test Result-Ant BT1.....	74
11.4.2.	Test Graphs-Ant BT1	74
11.5.	<i>APPENDIX E: BAND EDGE MEASUREMENTS.....</i>	<i>77</i>
11.5.1.	Test Result-Ant BT1.....	77
11.5.2.	Test Graphs-Ant BT1	77
11.6.	<i>APPENDIX F: CONDUCTED SPURIOUS EMISSION</i>	<i>79</i>
11.6.1.	Test Result-Ant BT1.....	79
11.6.2.	Test Graphs-Ant BT1	80
11.7.	<i>APPENDIX G: DUTY CYCLE.....</i>	<i>88</i>
11.7.1.	Test Result-Ant BT1.....	88
11.7.2.	Test Graphs-Ant BT1	88

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Harman International Industries, Inc.
Address: 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

Manufacturer Information

Company Name: Harman International Industries, Inc.
Address: 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

Factory Information

Company Name 1: Tymphony Acoustic Technology (Huizhou) Co., Ltd.
Address: Tympahny Intelligent Audio Technology Industrial Park, Hua Guo Village, XinXu Town, HuiYang District, Huizhou City, Guang Dong Province, P. R.

EUT Information

EUT Name: Bluetooth Speaker
FCC Model: PARTYBOX 330, PARTYBOX 330C
IC Model: PARTYBOX 330C
Brand: JBL
Sample Received Date: Jan. 05, 2026
Sample Status: Normal
Sample ID: 9547902
Date of Tested: Jan 5, 2026- Mar 03, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 15 SUBPART C ISED RSS-247 Issue 4	Pass

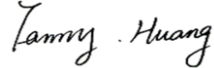
Prepared By:



Johnson Liu

Laboratory Engineer

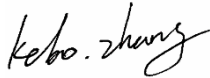
Checked By:



Fanny Huang

Project Engineer

Approved By:



Kebo Zhang

Operations Leader

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR PART 15 SUBPART C ISSED RSS-247 Issue 4, KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, FCC 47 CFR Part 2, ANSI C63.10-2020, ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and ISSED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Bluetooth Speaker
FCC Model	PARTYBOX 330, PARTYBOX 330C
IC Model	PARTYBOX 330C
Hardware Version:	V2.0.0
Hardware Version Difference:	V26.07.10

Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Data Rates:	1Mbps/2Mbps
Normal Test Voltage:	AC 100-240V~ 50/60Hz 100W DC 7.2V 9444mAh Rechargeable Lithium-ion Battery

5.2. CHANNEL LIST

Bluetooth LE 1Mbps							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478
6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	/	/
8	2418	19	2440	30	2462	/	/
9	2420	20	2442	31	2464	/	/
10	2422	21	2444	32	2466	/	/

Bluetooth LE 2Mbps							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478

6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	/	/
8	2418	19	2440	30	2462	/	/
9	2420	20	2442	31	2464	/	/
10	2422	21	2444	32	2466	/	/
The channel 0,channel 12 and channel 39 are excluded, because they are primary advertising channel only for the Bluetooth LE 1Mbps according to the Bluetooth Core Specification.							

5.3. MAXIMUM POWER

For BT0:

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)
LE 1M	2402 ~ 2480	0-39[40]	8.79
LE 2M	2404 ~ 2478	1-38[37]	8.79

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
LE 1M	CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel)	2402 MHz, 2440 MHz, 2480 MHz
LE 2M	CH 1(Low Channel), CH 19(MID Channel), CH 38(High Channel)	2404 MHz, 2440 MHz, 2478 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software Version		BlueTest3_3.3.15		
Modulation Type	Transmit Antenna Number	Test Software setting value		
		Low Channel	MID Channel	High Channel
GFSK(1Mbps)	BT0	default	default	default
GFSK(2Mbps)	BT0	default	default	default

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
BT0	2402-2480	FPC Antenna	2.04

Note: Equipment with two diversity BT antennas but only one antenna active at any moment in time.

Test Mode	Transmit and Receive Mode	Description
LE 1M	☒ 1TX,1RX	Antenna BT0 can be used as transmitting/receiving antenna.
LE 2M	☒ 1TX, 1RX	Antenna BT0 can be used as transmitting/receiving antenna.

Note: 1. The value of the antenna gain was declared by customers.

2. BT/BLE can't transmit simultaneously. (declare by customers)

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/
2	AC Adaptor	Lenovo	ADLX65YCC3D	Input: AC 100-240V, 1.8A, 50-60Hz Output: DC 20V, 3.25A, 65.0W Max

I/O CABLES

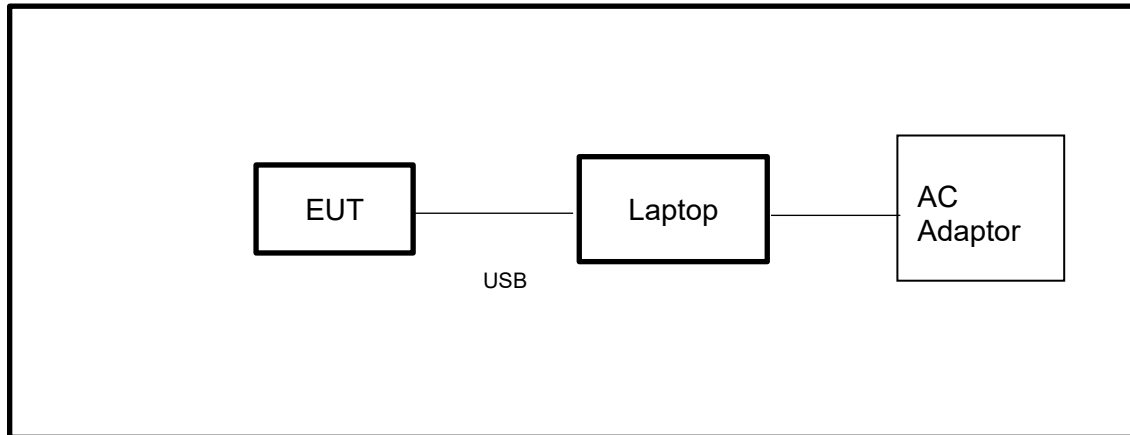
Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description	Remark
1	AC cable	Harman	/	Length: 2m	/
2	Rechargeable Li-ion Battery Pack	Guangzhou Great Power Energy & Technology Co., Ltd.	FG4CELL21700G	Rated Capacity: 9444 mAh Nominal Energy: 68 Wh Nominal Voltage: 7.2 V	Optional
3	Rechargeable Li-ion Battery Pack	GUANGZHOU GREAT POWER ENERGY & TECHNOLOGY CO., LTD.	FG4CELL21700GP	Rated Capacity: 9444 mAh Nominal Energy: 68 Wh Nominal Voltage: 7.2 V	Optional

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS

Note: AC Adaptor only use for AC POWER LINE CONDUCTED EMISSION test

6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Dec.27,2024	Dec.26,2025
Power sensor, Power Meter	R&S	OSP120	100921	Dec.26,2025	Dec.25,2026
Vector Signal Generator	R&S	SMBV100A	261637	Sep.12, 2025	Sep.11, 2026
Signal Generator	R&S	SMB100A	178553	Sep.12, 2025	Sep.11, 2026
Signal Analyzer	R&S	FSV40	101118	Sep.12, 2025	Sep.11, 2026
Software					
Description	Manufacturer		Name	Version	
For R&S TS 8997 Test System	Rohde & Schwarz		EMC 32	10.60.10	
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.12, 2025	Sep.11, 2026
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.12, 2025	Sep.11, 2026
DC power supply	TSSTAKASAGO	ZX-400L	409150160137	Sep.12, 2025	Sep.11, 2026
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.12, 2025	Sep.11, 2026
Attenuator	Aglient	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026
RF Control Unit	Tonscend	JS0806-2	23B80620666	Dec.27,2024	Dec.26,2025
RF Control Unit	Tonscend	JS0806-2	23B80620666	Dec.26,2025	Dec.25,2026
Software					
Description	Manufacturer	Name			Version
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System			V3.2.22

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Sep.12, 2025	Sep.11, 2026
Two-Line V-Network	R&S	ENV216	101983	Sep.12, 2025	Sep.11, 2026
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.12, 2025	Sep.11, 2026
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.12, 2025	Sep.11, 2026
EMI Measurement Receiver	R&S	ESR26	101377	Sep.12, 2025	Sep.11, 2026
Horn Antenna	TDK	HRN-0118	130940	Dec.10, 2024	Dec.11, 2027
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.12, 2025	Sep.11, 2026
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.12, 2025	Sep.11, 2026
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.12, 2025	Sep.11, 2026
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep.12, 2025	Sep.11, 2026
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Sep.12, 2025	Sep.11, 2026
Software					
Description			Manufacturer	Name	Version
Tonsend SRD Test System			Tonsend	Tonsend TS+ JS32-RE	V5.0.1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Sep.16, 2025	Sep.15, 2026
Barometer	Yiyi	Baro	N/A	Sep.19, 2025	Sep.18, 2026
Attenuator	Agilent	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247(b)(3) ISED RSS-247 6.3.2	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.9.1.2:

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

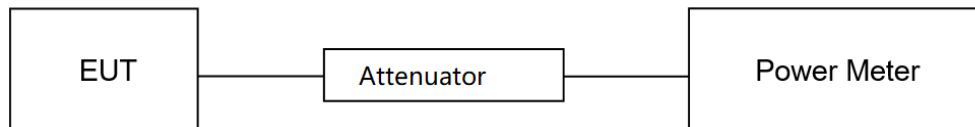
Refer to ANSI C63.10-2020 clause 11.9.2.3.1:

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

The test result in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.3°C	Relative Humidity	58.7%
Atmosphere Pressure	101kPa	Test Voltage	Battery

TEST DATE / ENGINEER

Test Date	Jan. 21, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247(a)(2) ISED RSS-247 6.3.1(a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

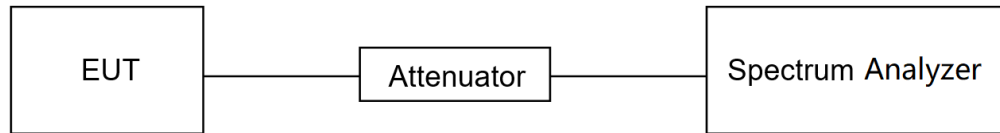
Refer to ANSI C63.10-2020 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 1 % to 5 % of the OBW but not less than 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.8℃	Relative Humidity	58.3%
Atmosphere Pressure	101kPa	Test Voltage	Battery

TEST DATE / ENGINEER

Test Date	Jan. 05, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

7.3. POWER SPECTRAL DENSITY

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR §15.247 (e) ISED RSS-247 6.3.1 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.10.2.

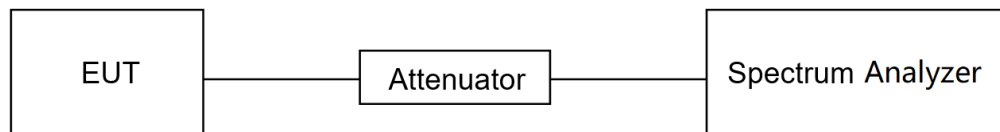
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$> 1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.8°C	Relative Humidity	58.3%
Atmosphere Pressure	101kPa	Test Voltage	Battery

TEST DATE / ENGINEER

Test Date	Jan. 05, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4		
Section	Test Item	Limit
FCC 47 CFR §15.247 (d) ISED RSS-247 6.6	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.11.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

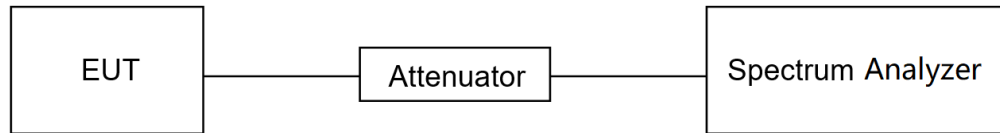
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$\geq 1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	No faster than coupled (auto) time

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span/RBW}$
Trace	Max hold
Sweep time	No faster than coupled (auto) time

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.8℃	Relative Humidity	58.3%
Atmosphere Pressure	101kPa	Test Voltage	Battery

TEST DATE / ENGINEER

Test Date	Jan. 05, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix E&F

7.5. DUTY CYCLE

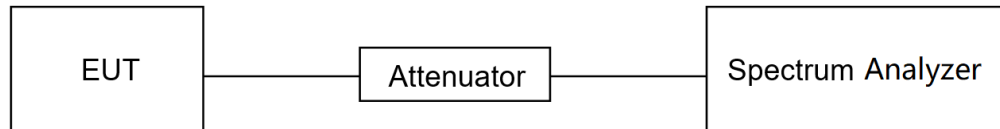
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.8°C	Relative Humidity	58.3%
Atmosphere Pressure	101kPa	Test Voltage	Battery

TEST DATE / ENGINEER

Test Date	Jan. 05, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

Please refer to FCC 47 CFR §15.205 and §15.209.

Please refer to ISSED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
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

ISSED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.6
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
2. The EUT was arranged to its worst case and then 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. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits 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.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. 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 and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.
2. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. 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.

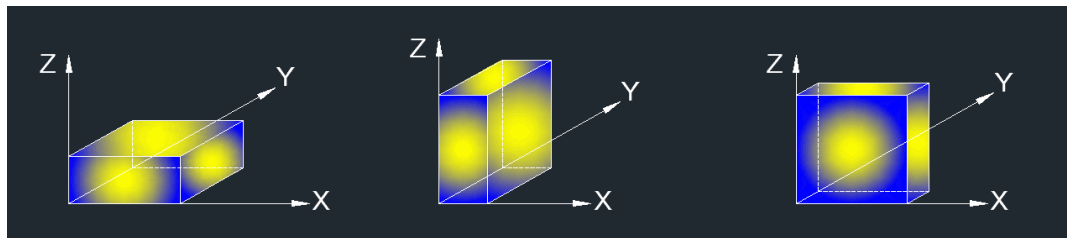
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.6.
2. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

For Restricted Bandedge:

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All antennas and modes have been tested, but only the worst data was recorded in the report.
5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All antennas and have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

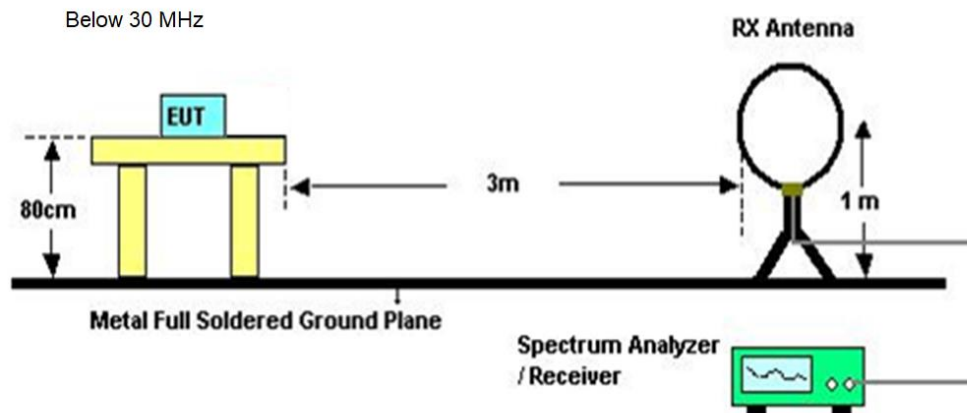
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

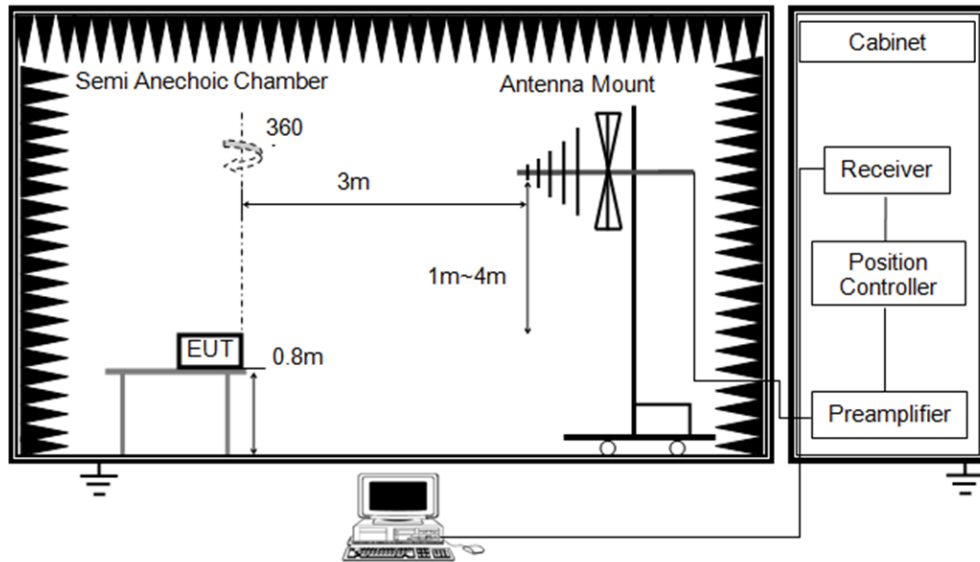
Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All antennas and modes have been tested, but only the worst data was recorded in the report.

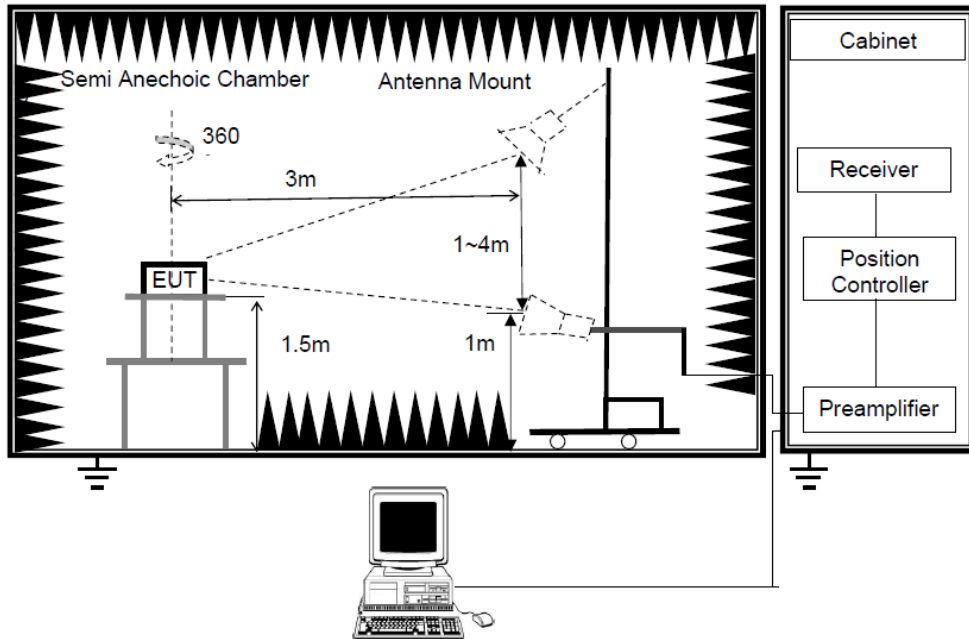
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	25.3-27.3℃	Relative Humidity	56.9-58.7%
Atmosphere Pressure	101kPa	Test Voltage	Battery

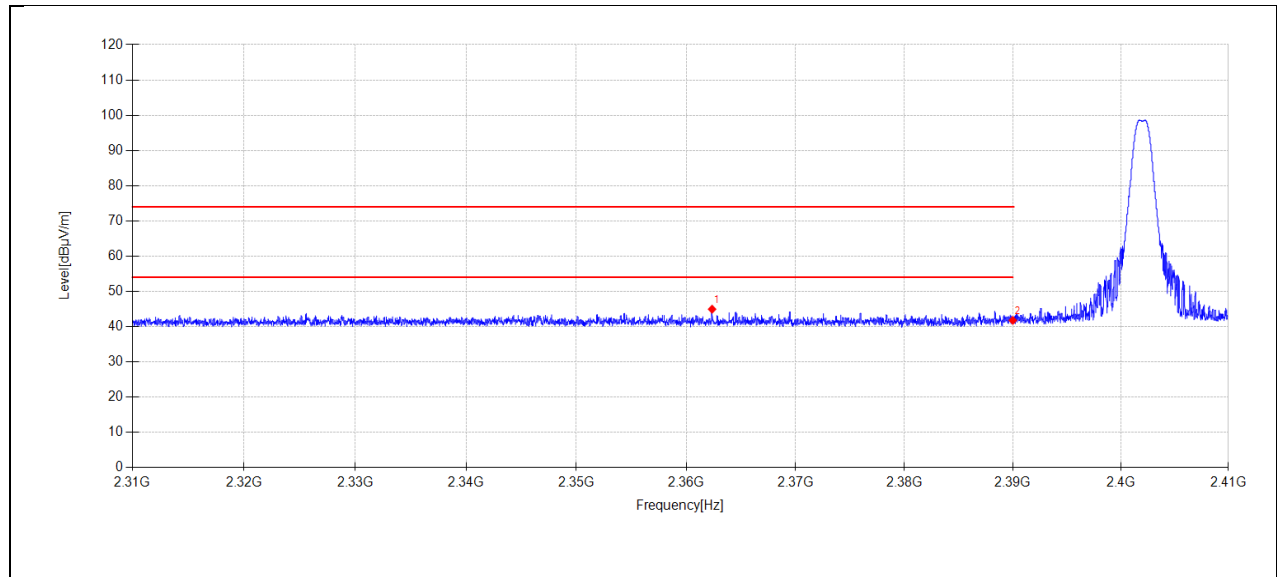
TEST DATE / ENGINEER

Test Date	Jan. 21, 2026-Feb.11, 2026	Test By	Stipe Zheng
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TEST RESULTS

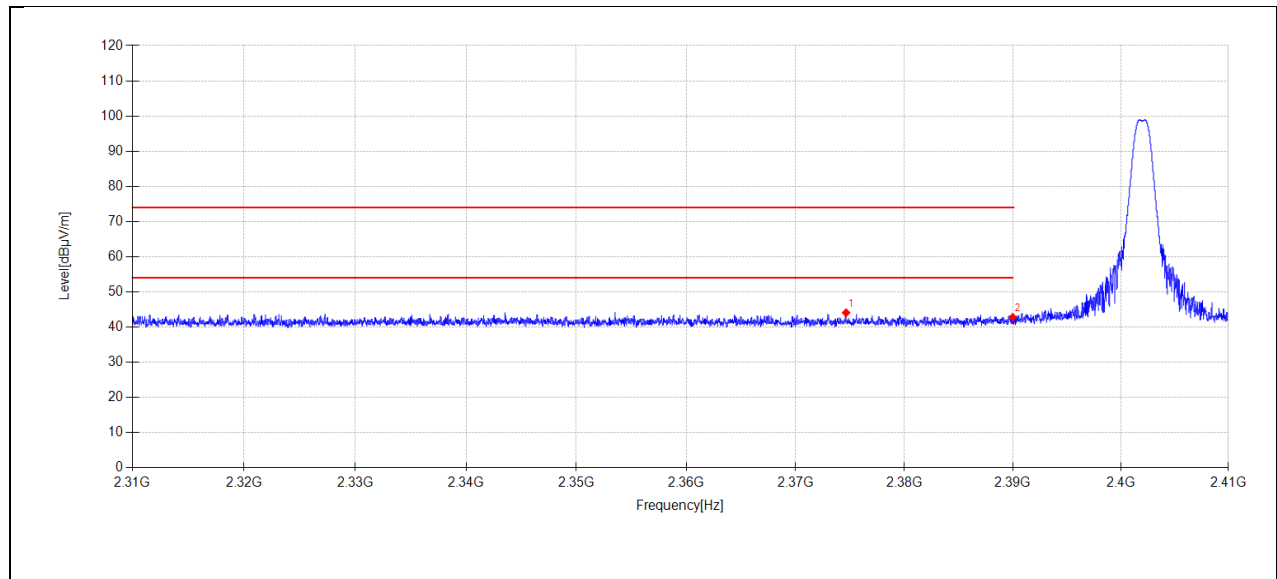
8.1. RESTRICTED BANDEDGE-ANT BT0

Test Mode:	BLE 1M	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	Battery



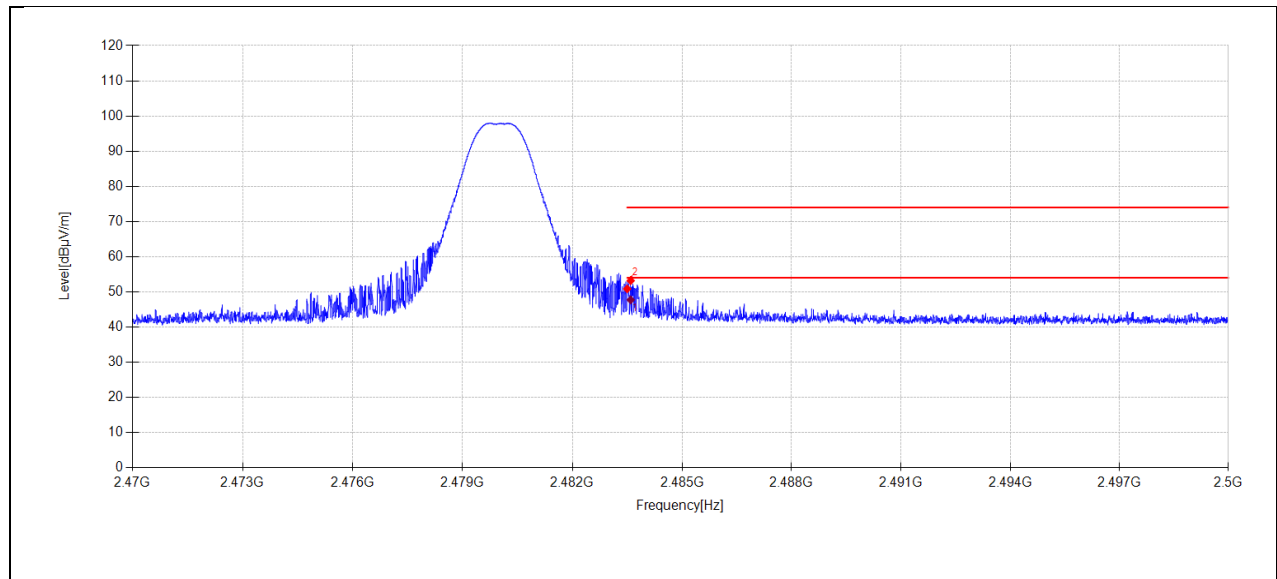
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2362.370	13.58	27.63	3.74	0.00	44.95	74.00	29.05	PK
2	2390.000	10.55	27.46	3.78	0.00	41.79	74.00	32.21	PK

Test Mode:	BLE 1M	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	Battery



NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2374.640	12.78	27.55	3.76	0.00	44.09	74.00	29.91	PK
2	2390.000	11.54	27.46	3.78	0.00	42.78	74.00	31.22	PK

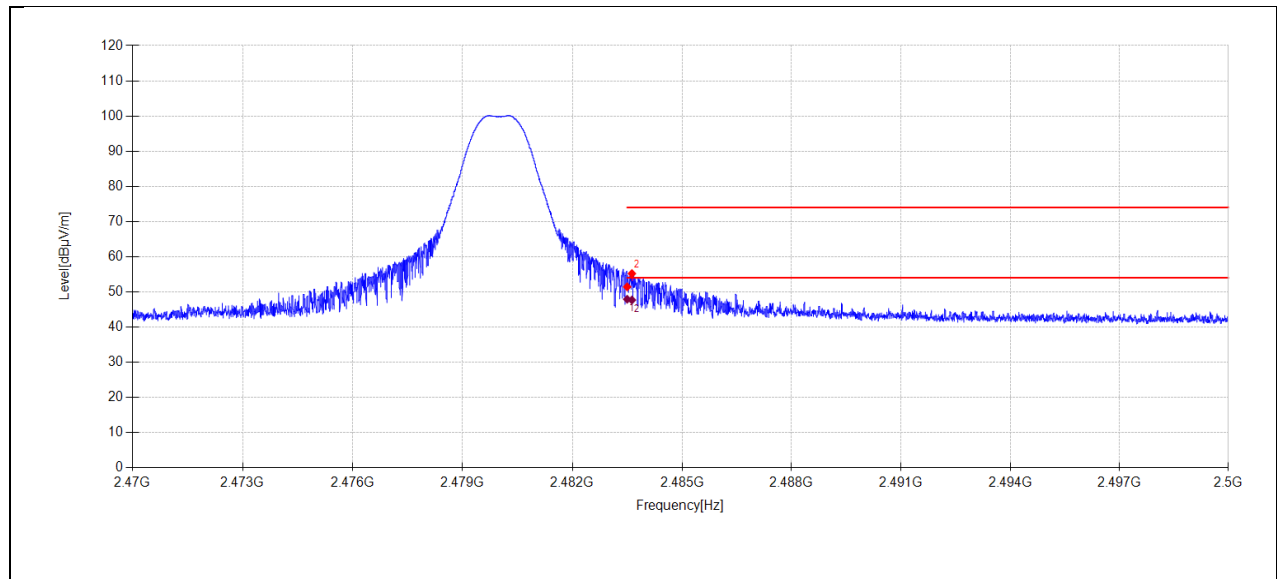
Test Mode:	BLE 1M	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	Battery



NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2483.500	19.45	27.54	3.88	0.00	50.87	74.00	23.13	PK
2	2483.596	21.76	27.54	3.88	0.00	53.18	74.00	20.82	PK

NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2483.596	16.31	27.54	3.88	47.73	54.00	6.27	AV

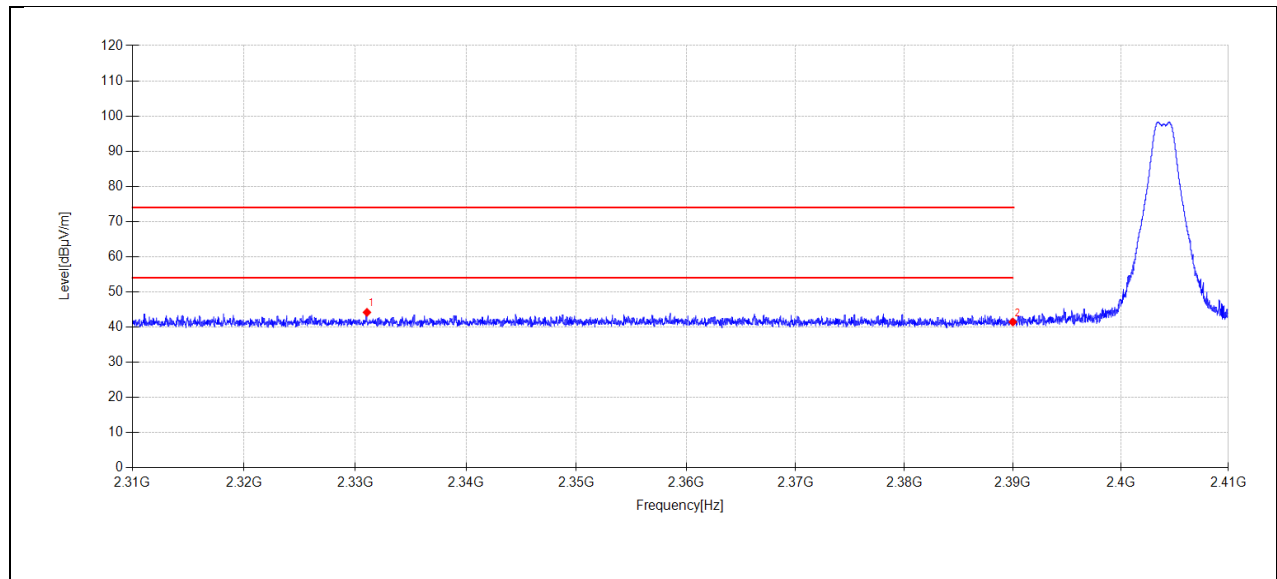
Test Mode:	BLE 1M	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	Battery



NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2483.500	20.01	27.54	3.88	0.00	51.43	74.00	22.57	PK
2	2483.629	23.79	27.54	3.88	0.00	55.21	74.00	18.79	PK

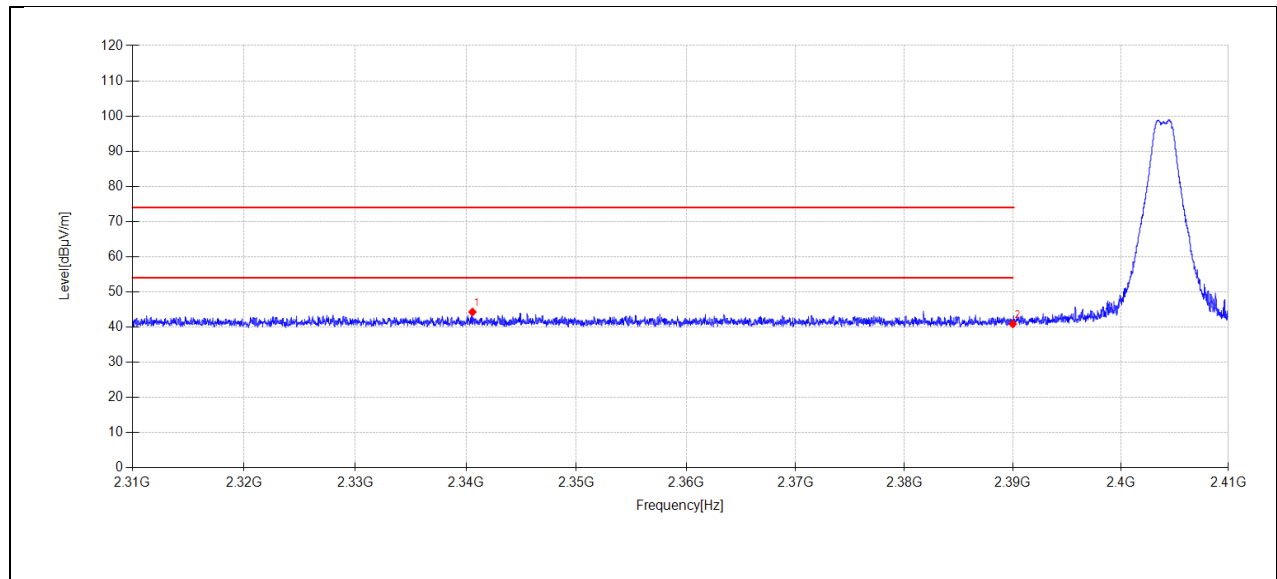
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2483.500	16.50	27.54	3.88	47.92	54.00	6.08	AV
2	2483.629	16.27	27.54	3.88	47.69	54.00	6.31	AV

Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	Battery



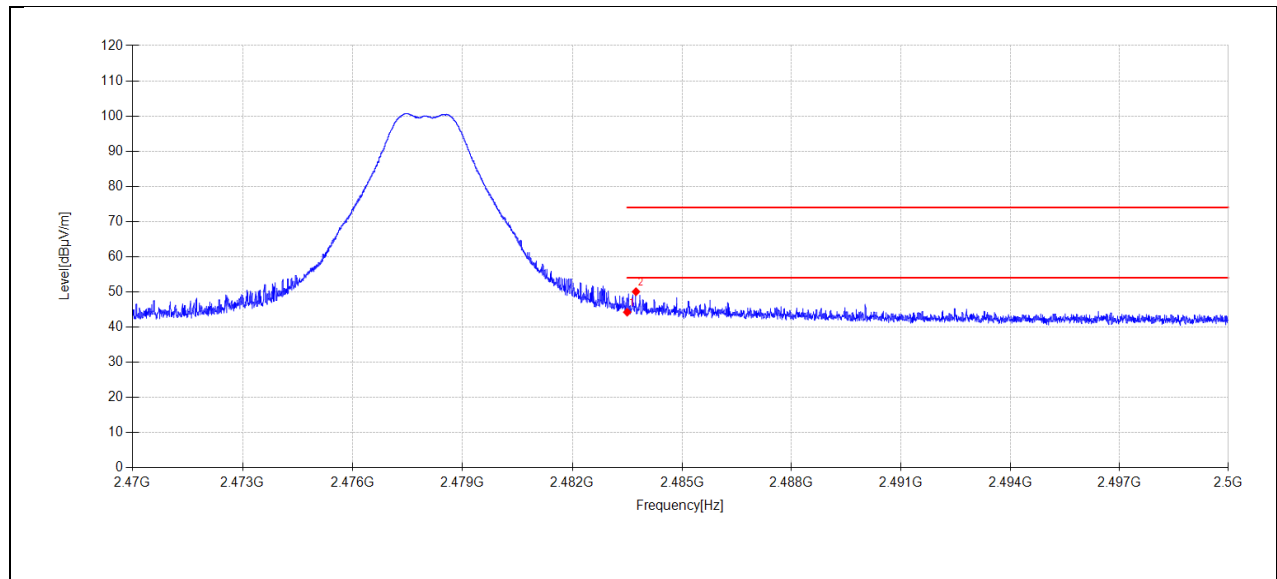
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2331.050	12.86	27.62	3.71	0.00	44.19	74.00	29.81	PK
2	2390.000	10.21	27.46	3.78	0.00	41.45	74.00	32.55	PK

Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Vertical	Test Voltage:	Battery



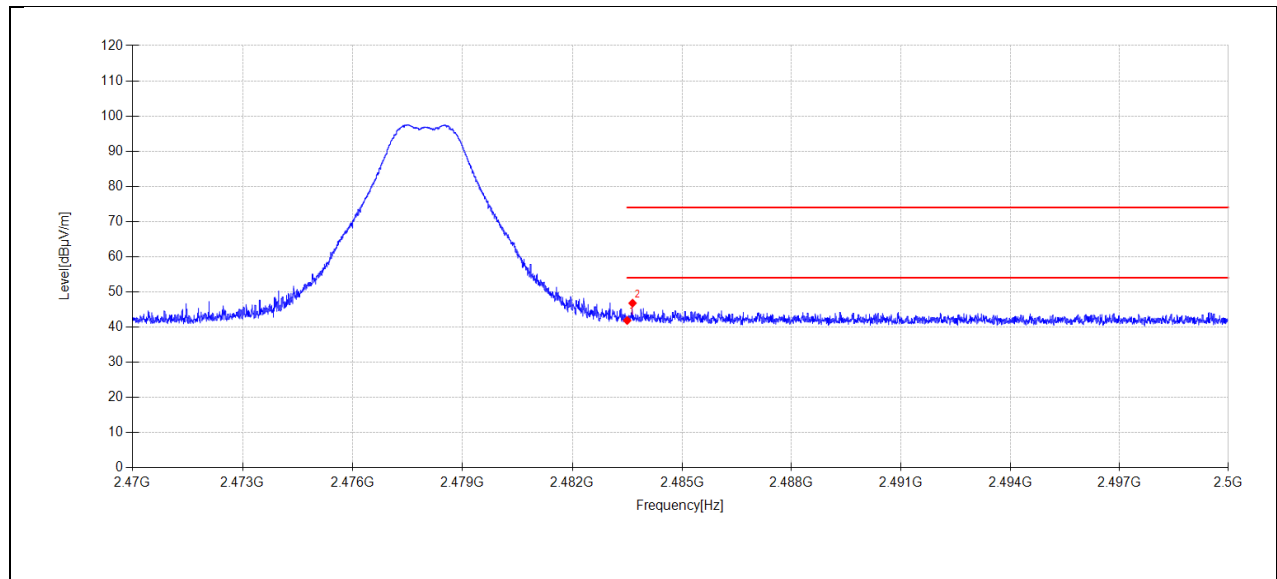
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2340.580	12.91	27.66	3.72	0.00	44.29	74.00	29.71	PK
2	2390.000	9.65	27.46	3.78	0.00	40.89	74.00	33.11	PK

Test Mode:	BLE 2M	Frequency(MHz):	2478
Polarity:	Vertical	Test Voltage:	Battery



NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2483.500	12.81	27.54	3.88	0.00	44.23	74.00	29.77	PK
2	2483.740	18.64	27.54	3.88	0.00	50.06	74.00	23.94	PK

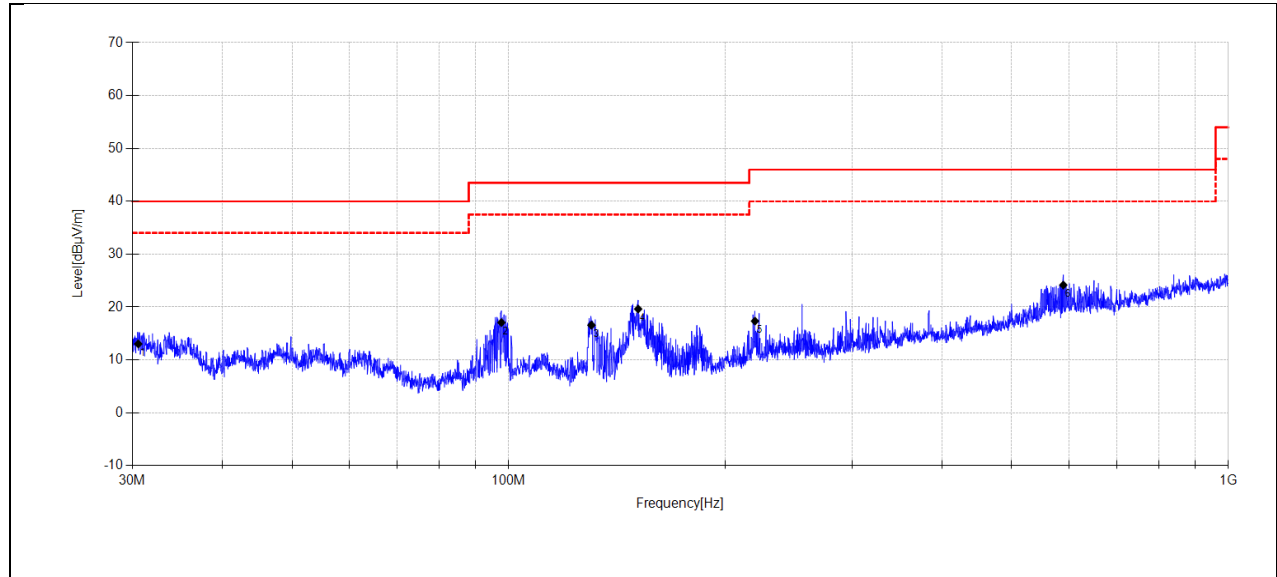
Test Mode:	BLE 2M	Frequency(MHz):	2478
Polarity:	Horizontal	Test Voltage:	Battery



NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2483.500	10.45	27.54	3.88	0.00	41.87	74.00	32.13	PK
2	2483.647	15.38	27.54	3.88	0.00	46.80	74.00	27.20	PK

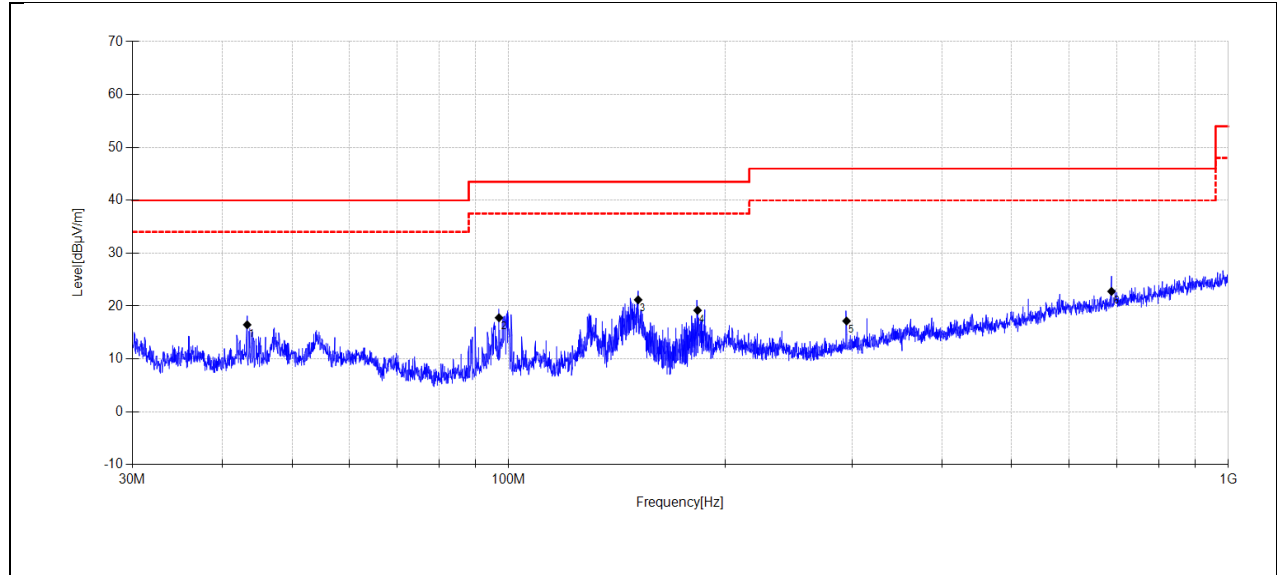
8.2. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)-ANT BT0

Test Mode:	BLE 1M	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700G		



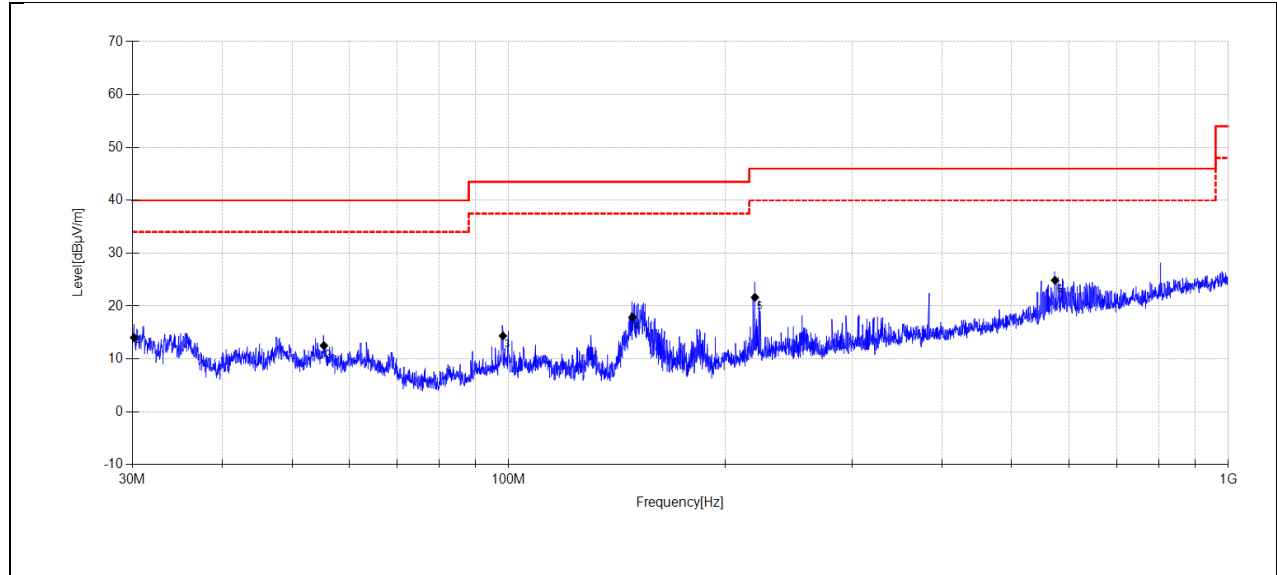
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	30.573	31.14	10.39	3.79	13.02	40.00	26.98	QP
2	97.707	34.09	10.98	4.29	17.06	43.50	26.44	QP
3	130.341	35.39	9.03	4.48	16.57	43.50	26.93	QP
4	151.336	38.74	8.63	4.60	19.62	43.50	23.88	QP
5	219.911	33.58	11.20	4.96	17.34	46.00	28.66	QP
6	589.794	31.54	19.08	6.36	24.16	46.00	21.84	QP

Test Mode:	BLE 1M	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700G		



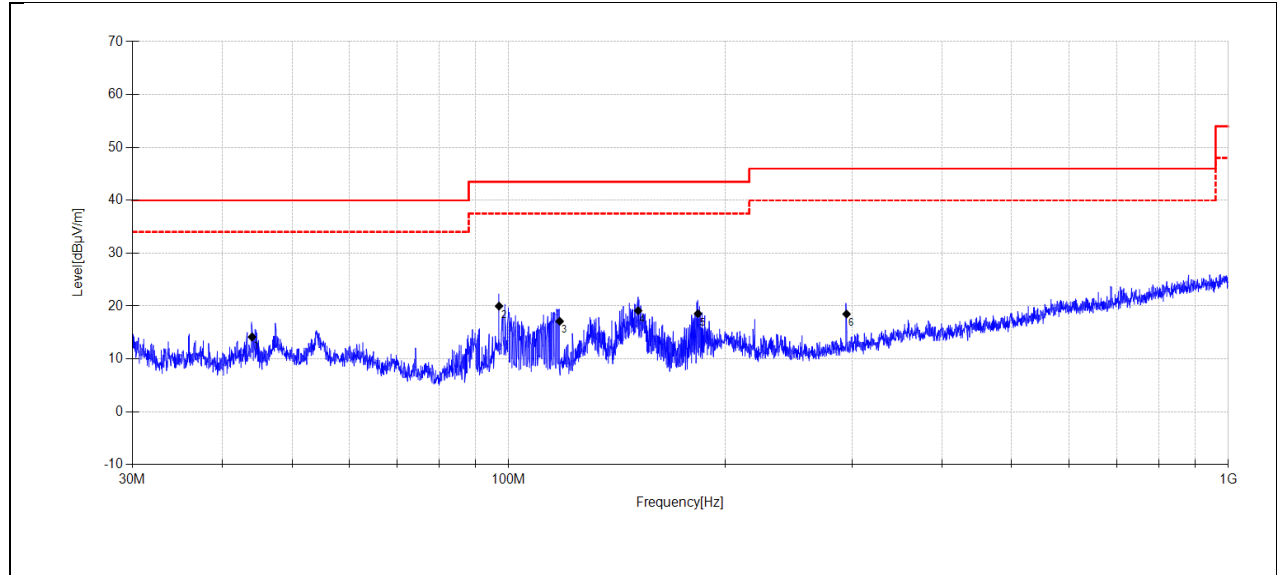
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	43.320	31.21	13.60	3.94	16.45	40.00	23.55	QP
2	96.956	35.56	10.24	4.28	17.78	43.50	25.72	QP
3	151.336	40.29	8.63	4.60	21.17	43.50	22.33	QP
4	183.006	37.08	9.70	4.78	19.18	43.50	24.32	QP
5	294.805	31.01	13.29	5.26	17.16	46.00	28.84	QP
6	688.167	29.6	19.63	6.60	22.76	46.00	23.24	QP

Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700G		



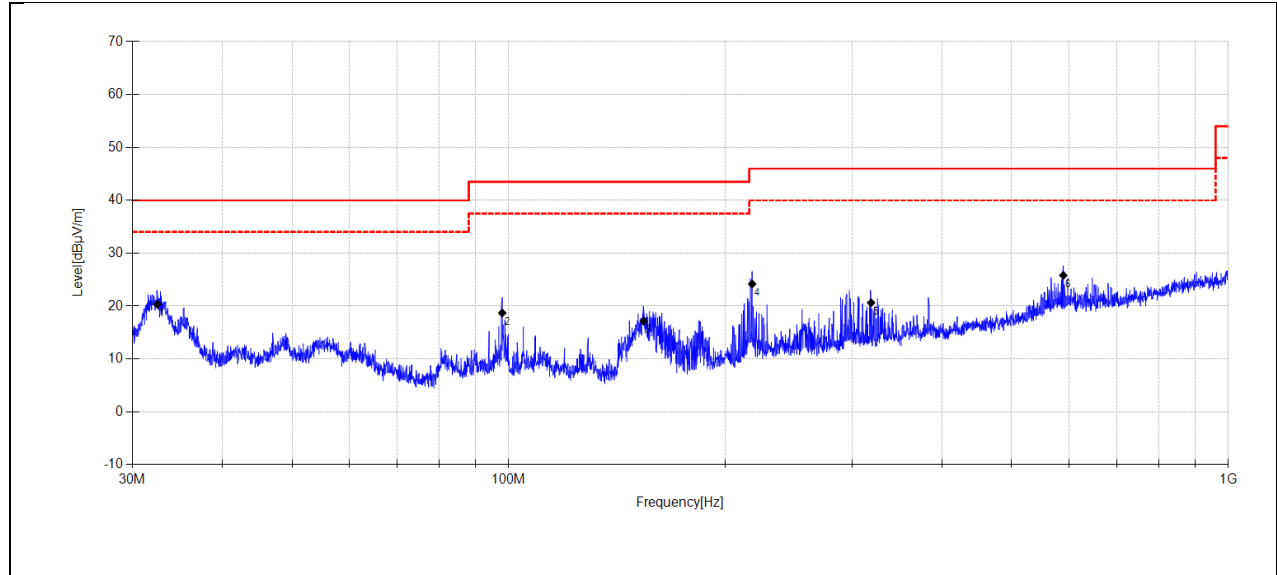
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	30.169	32.08	10.47	3.78	14.03	40.00	25.97	QP
2	55.369	27.99	12.81	4.02	12.52	40.00	27.48	QP
3	98.187	31.04	11.32	4.29	14.35	43.50	29.15	QP
4	148.602	37.18	8.48	4.58	17.89	43.50	25.61	QP
5	219.911	37.87	11.20	4.96	21.63	46.00	24.37	QP
6	574.287	32.73	18.61	6.31	24.86	46.00	21.14	QP

Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Vertical	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700G		



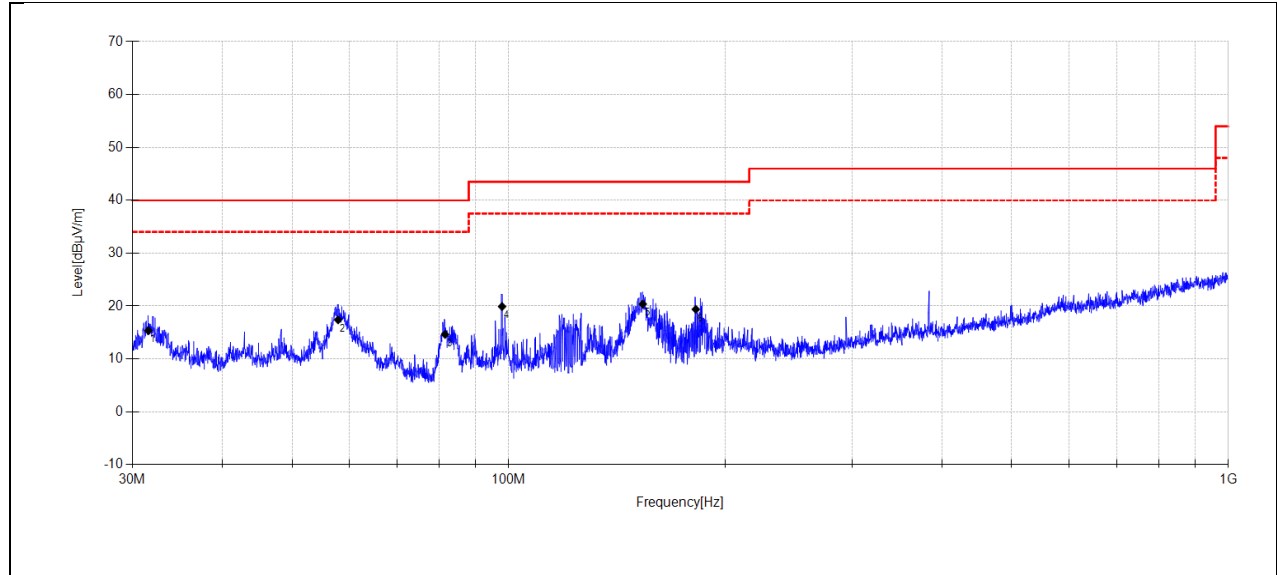
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	43.993	29.09	13.40	3.94	14.13	40.00	25.87	QP
2	96.956	37.76	10.24	4.28	19.98	43.50	23.52	QP
3	117.740	35.3	9.73	4.40	17.11	43.50	26.39	QP
4	151.336	38.23	8.63	4.60	19.11	43.50	24.39	QP
5	183.263	36.49	9.67	4.78	18.56	43.50	24.94	QP
6	294.805	32.33	13.29	5.26	18.48	46.00	27.52	QP

Test Mode:	BLE 1M	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700GP		



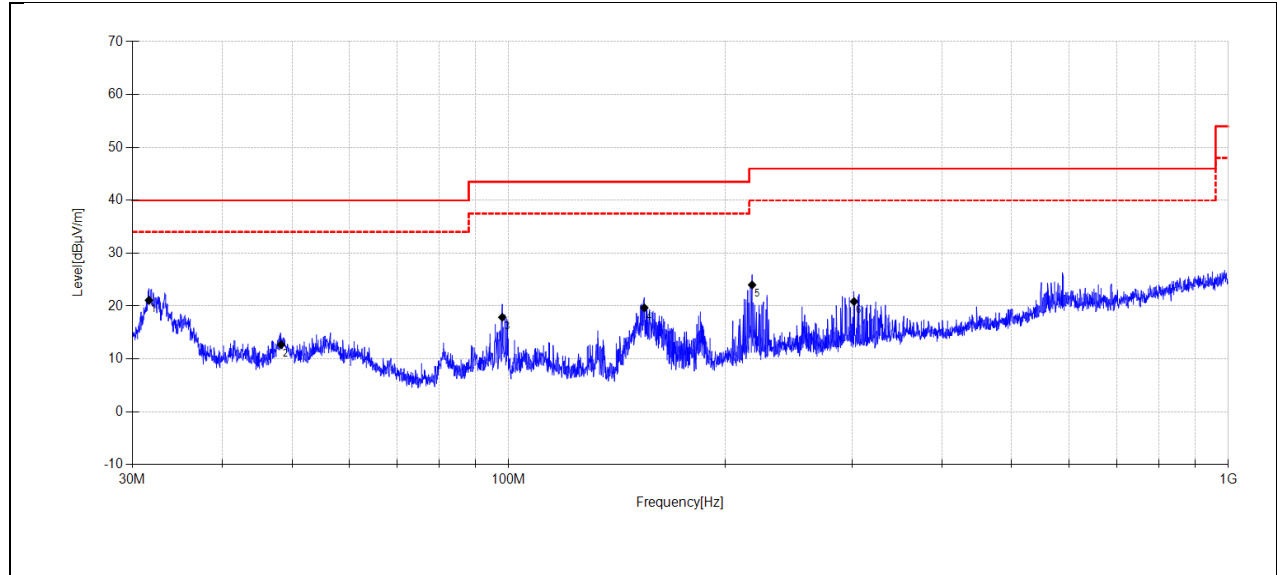
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	32.519	37.91	10.90	3.82	20.33	40.00	19.67	QP
2	97.981	35.42	11.28	4.29	18.69	43.50	24.81	QP
3	154.012	35.6	9.29	4.61	17.15	43.50	26.35	QP
4	217.916	40.39	11.24	4.95	24.18	46.00	21.82	QP
5	318.890	33.58	14.11	5.36	20.63	46.00	25.37	QP
6	589.794	33.17	19.08	6.36	25.79	46.00	20.21	QP

Test Mode:	BLE 1M	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700GP		



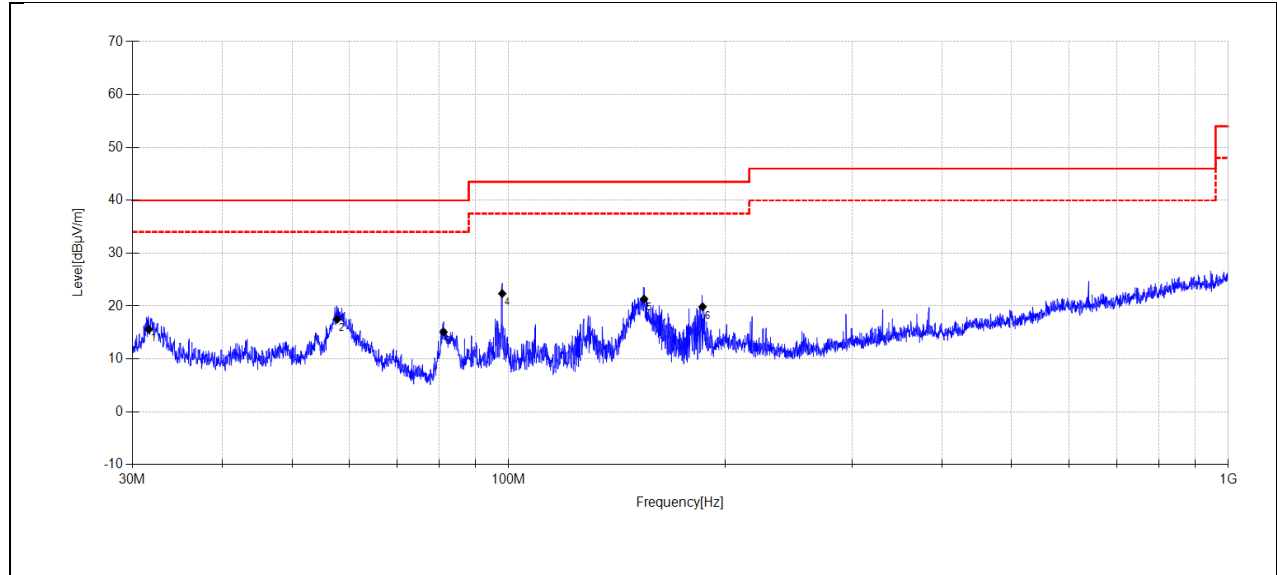
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	31.576	33.21	10.65	3.80	15.36	40.00	24.64	QP
2	57.951	32.66	12.99	4.04	17.39	40.00	22.61	QP
3	81.595	33.78	8.94	4.20	14.62	40.00	25.38	QP
4	97.912	36.72	11.20	4.29	19.91	43.50	23.59	QP
5	153.581	39.19	8.92	4.61	20.37	43.50	23.13	QP
6	181.982	38.06	8.91	4.78	19.37	43.50	24.13	QP

Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700GP		



NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	31.642	38.89	10.69	3.80	21.08	40.00	18.92	QP
2	48.293	27.69	13.32	3.97	12.68	40.00	27.32	QP
3	97.981	34.6	11.28	4.29	17.87	43.50	25.63	QP
4	154.336	38.33	9.06	4.62	19.66	43.50	23.84	QP
5	217.916	40.2	11.24	4.95	23.99	46.00	22.01	QP
6	301.918	34.24	13.72	5.29	20.85	46.00	25.15	QP

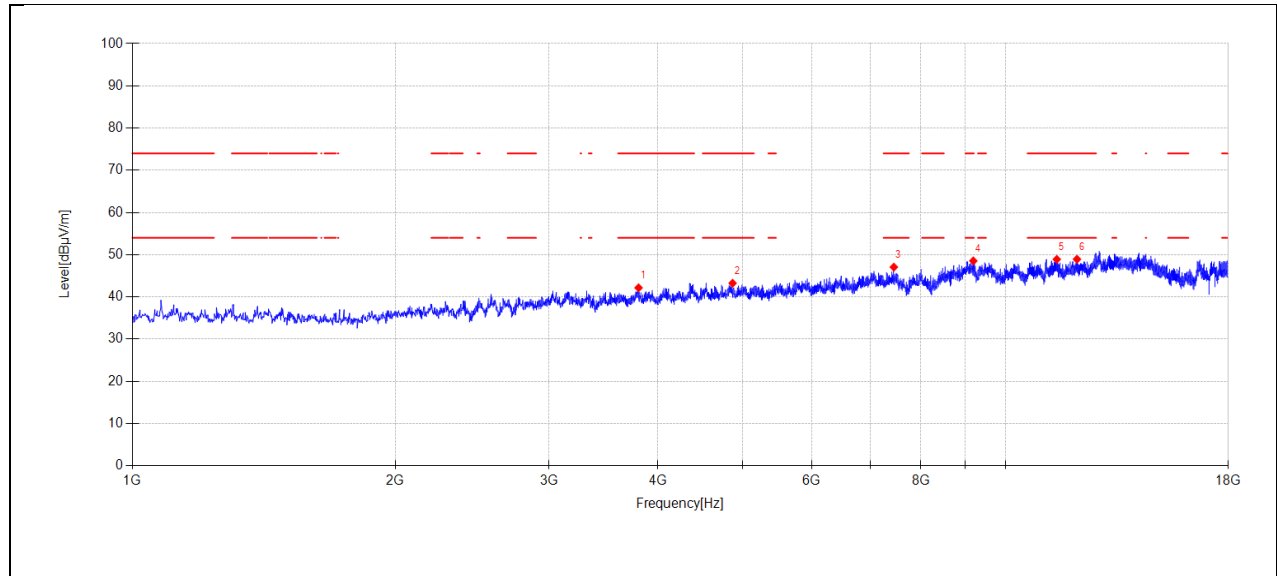
Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Vertical	Test Voltage:	Battery
Note	Rechargeable Li-ion Battery Pack: FG4CELL21700GP		



NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	31.620	33.4	10.67	3.80	15.57	40.00	24.43	QP
2	57.789	32.83	12.94	4.04	17.51	40.00	22.49	QP
3	81.196	34.2	8.98	4.20	15.08	40.00	24.92	QP
4	97.981	39.08	11.28	4.29	22.35	43.50	21.15	QP
5	154.228	39.94	9.14	4.61	21.34	43.50	22.16	QP
6	185.981	37.45	10.00	4.80	19.86	43.50	23.64	QP

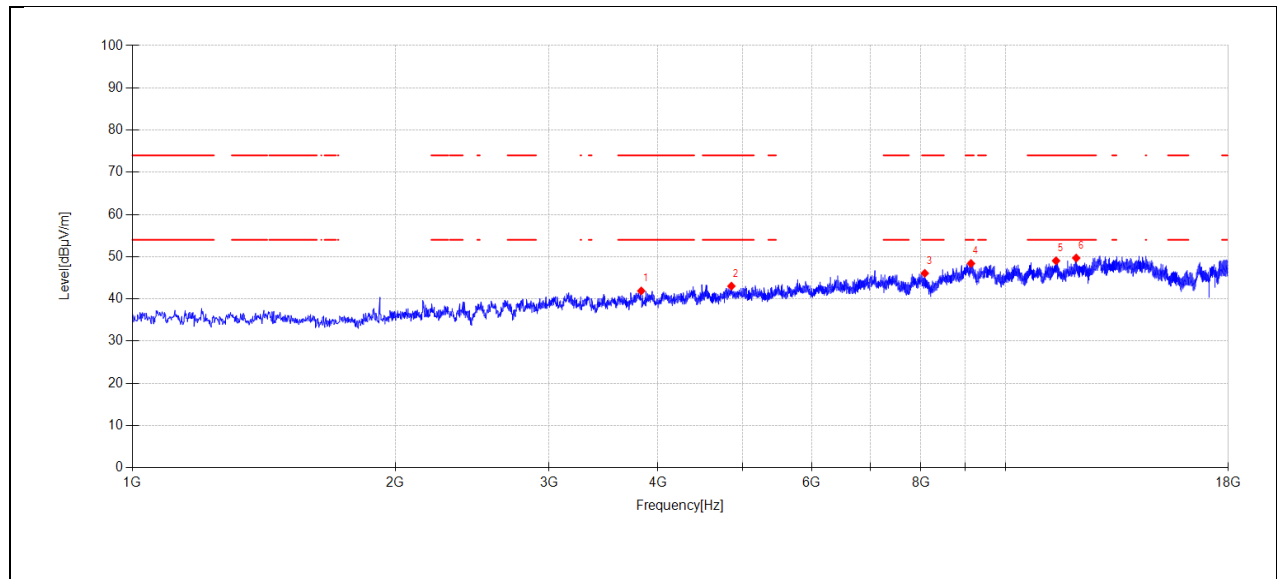
8.3. SPURIOUS EMISSIONS(1 GHZ~18 GHZ)-ANT BT0

Test Mode:	BLE 1M	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	Battery



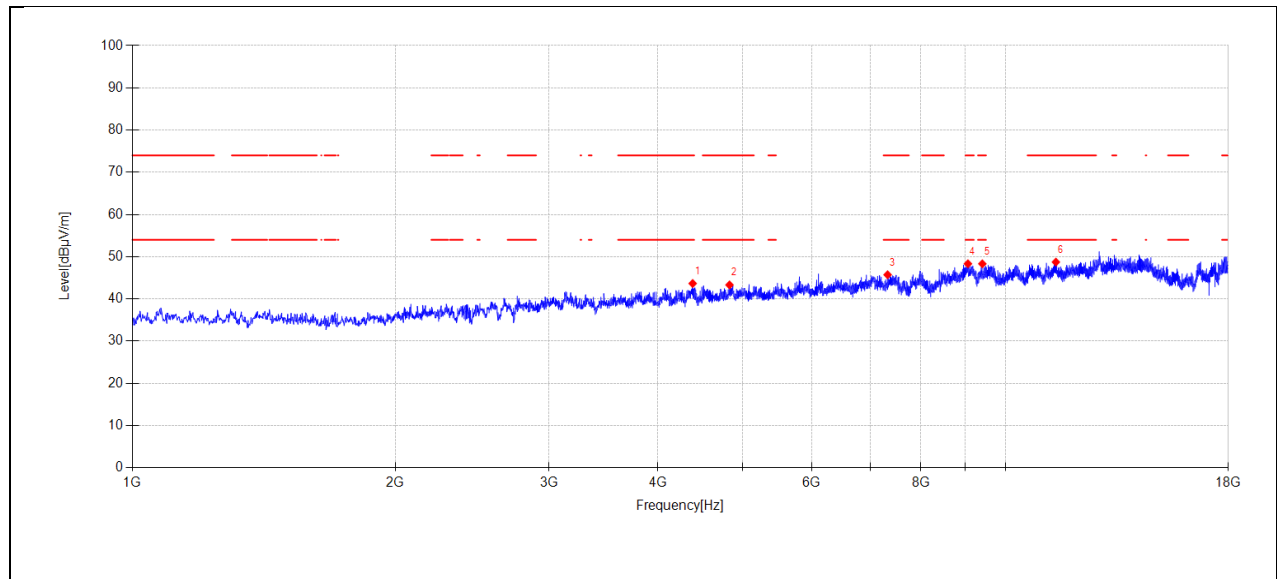
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	3799.900	46.34	30.90	4.54	-39.62	42.16	74.00	31.84	PK
2	4869.200	44.90	32.98	5.16	-39.79	43.25	74.00	30.75	PK
3	7449.800	44.54	36.60	5.78	-39.86	47.06	74.00	26.94	PK
4	9187.200	42.02	38.55	6.78	-38.81	48.54	74.00	25.46	PK
5	11449.900	41.62	39.30	7.59	-39.60	48.91	74.00	25.09	PK
6	12075.500	41.29	39.38	7.81	-39.54	48.94	74.00	25.06	PK

Test Mode:	BLE 1M	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	Battery



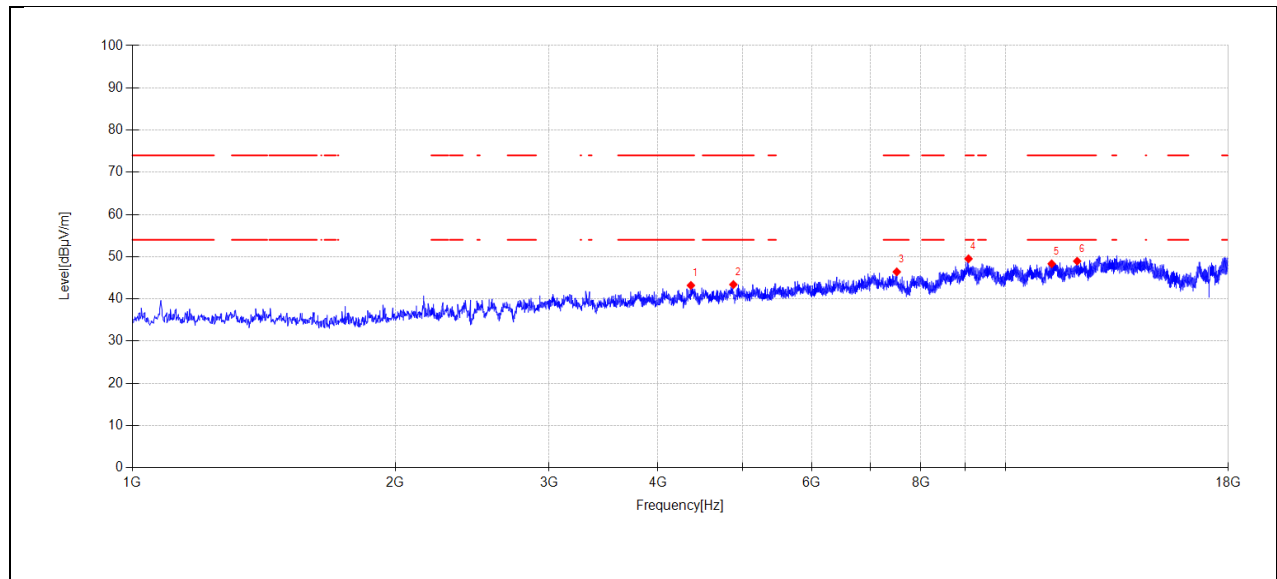
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	3827.100	46.41	30.57	4.55	-39.63	41.90	74.00	32.10	PK
2	4853.900	44.75	32.92	5.15	-39.79	43.03	74.00	30.97	PK
3	8083.900	42.49	37.24	6.04	-39.70	46.07	74.00	27.93	PK
4	9131.100	41.74	38.62	6.78	-38.74	48.40	74.00	25.60	PK
5	11426.100	41.52	39.54	7.58	-39.60	49.04	74.00	24.96	PK
6	12051.700	42.18	39.26	7.81	-39.56	49.69	74.00	24.31	PK

Test Mode:	BLE 1M	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	Battery



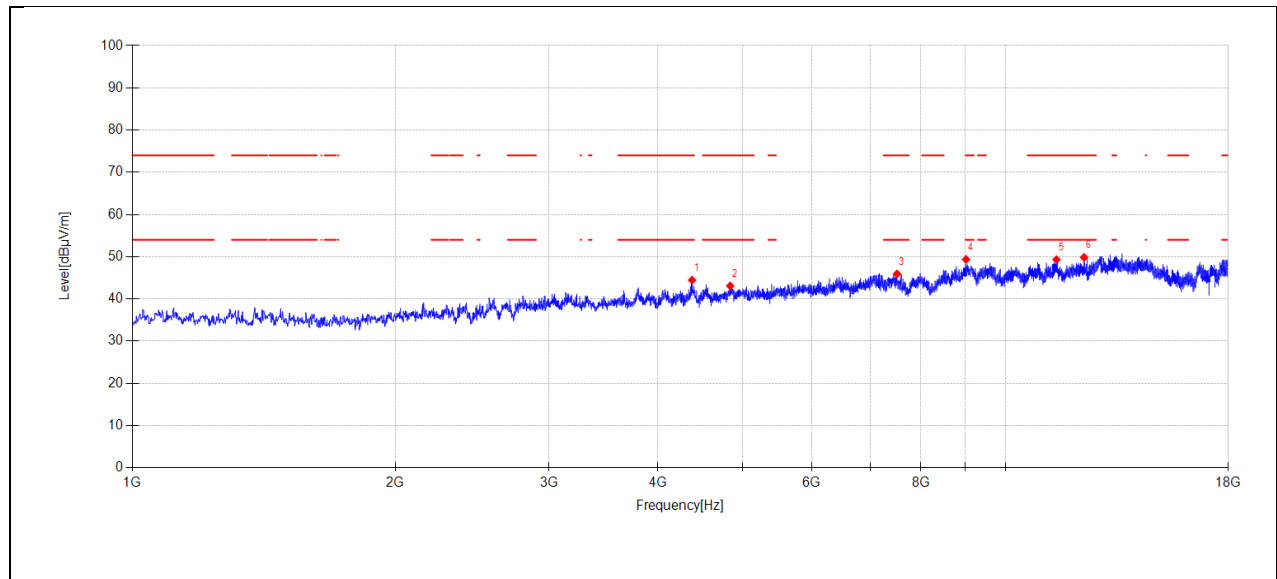
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4383.000	46.87	31.70	4.83	-39.74	43.66	74.00	30.34	PK
2	4830.100	45.39	32.58	5.13	-39.78	43.32	74.00	30.68	PK
3	7329.100	42.86	37.00	5.74	-39.87	45.73	74.00	28.27	PK
4	9058.000	41.44	38.76	6.79	-38.66	48.33	74.00	25.67	PK
5	9408.200	42.00	38.62	6.75	-39.05	48.32	74.00	25.68	PK
6	11422.700	41.18	39.57	7.58	-39.60	48.73	74.00	25.27	PK

Test Mode:	BLE 1M	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	Battery



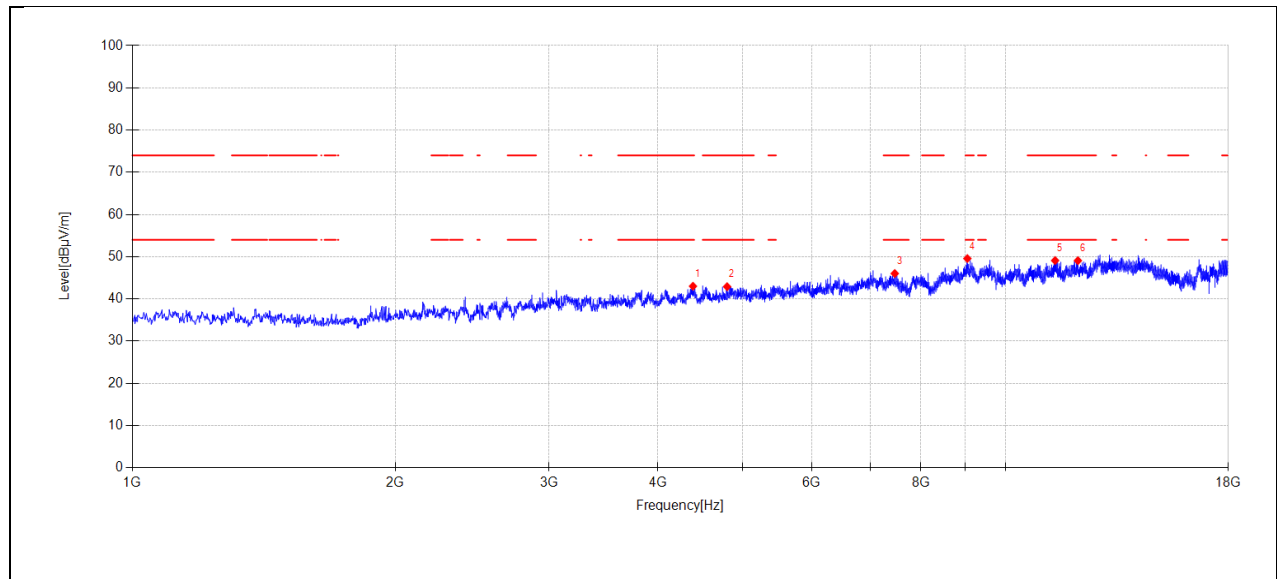
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4362.600	46.68	31.45	4.82	-39.74	43.21	74.00	30.79	PK
2	4879.400	45.01	33.02	5.17	-39.79	43.41	74.00	30.59	PK
3	7507.600	43.67	36.79	5.80	-39.85	46.41	74.00	27.59	PK
4	9071.600	42.89	38.51	6.79	-38.68	49.51	74.00	24.49	PK
5	11296.900	41.78	38.61	7.53	-39.60	48.32	74.00	25.68	PK
6	12082.300	41.26	39.41	7.81	-39.53	48.95	74.00	25.05	PK

Test Mode:	BLE 1M	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	Battery



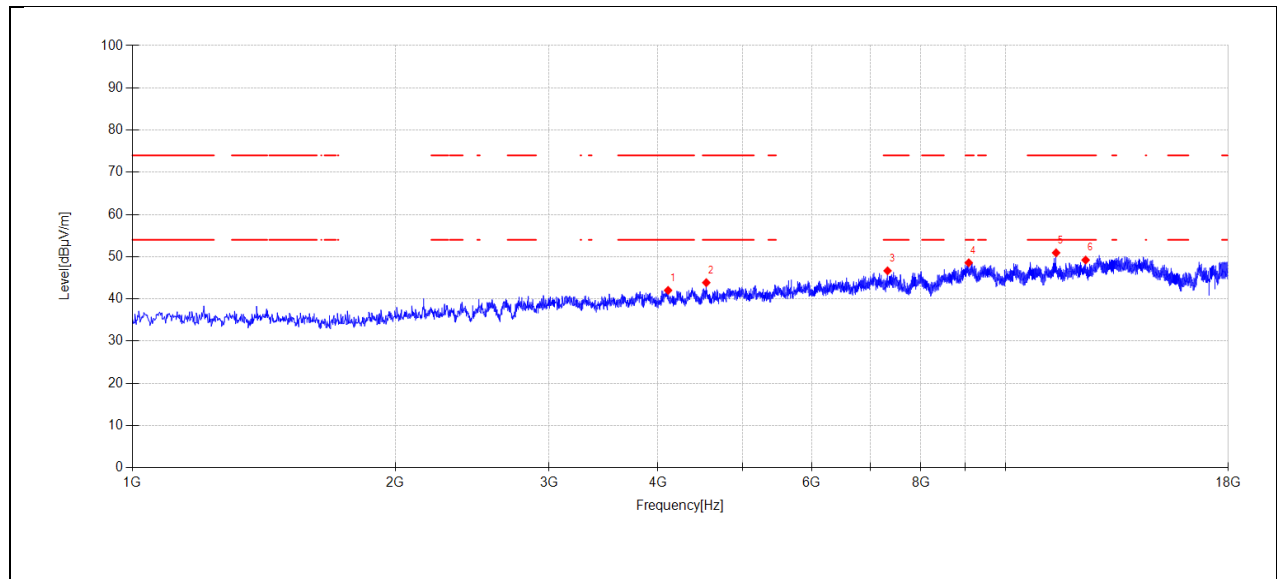
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4376.200	47.75	31.61	4.83	-39.74	44.45	74.00	29.55	PK
2	4838.600	45.01	32.72	5.14	-39.78	43.09	74.00	30.91	PK
3	7512.700	43.25	36.72	5.80	-39.85	45.92	74.00	28.08	PK
4	9012.100	42.56	38.60	6.80	-38.61	49.35	74.00	24.65	PK
5	11441.400	41.94	39.39	7.59	-39.60	49.32	74.00	24.68	PK
6	12303.300	42.01	39.39	7.81	-39.36	49.85	74.00	24.15	PK

Test Mode:	BLE 1M	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	Battery



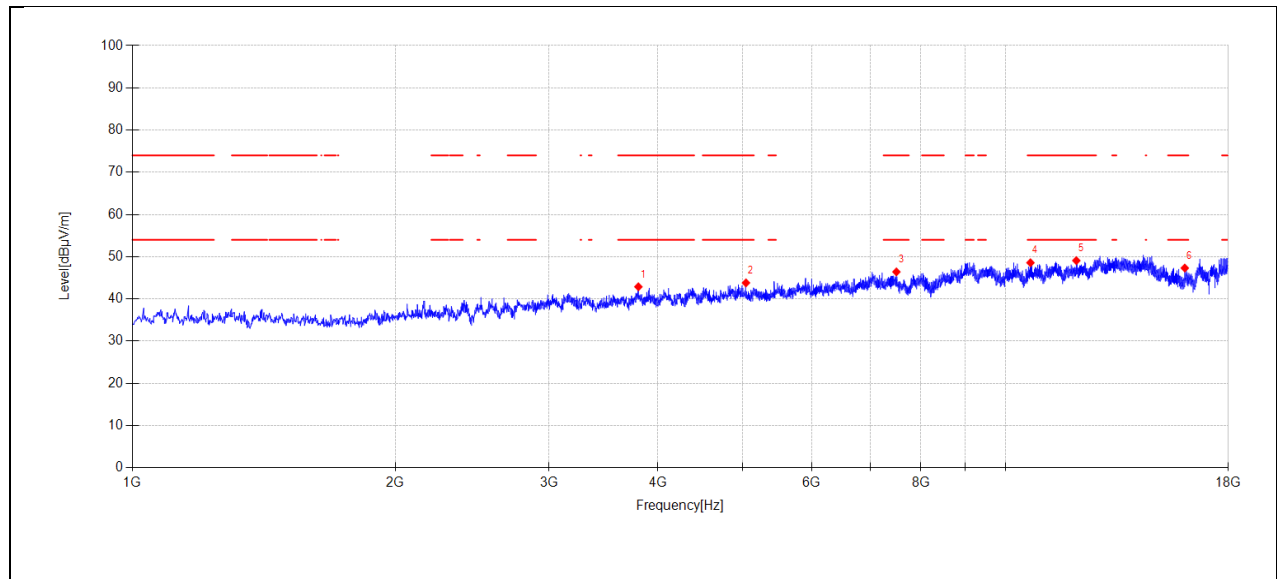
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4386.400	46.18	31.74	4.83	-39.74	43.01	74.00	30.99	PK
2	4799.500	45.48	32.10	5.11	-39.78	42.91	74.00	31.09	PK
3	7468.500	43.38	36.71	5.78	-39.85	46.02	74.00	27.98	PK
4	9044.400	42.57	38.86	6.79	-38.65	49.57	74.00	24.43	PK
5	11398.900	41.34	39.79	7.57	-39.60	49.10	74.00	24.90	PK
6	12106.100	41.30	39.48	7.81	-39.52	49.07	74.00	24.93	PK

Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	Battery



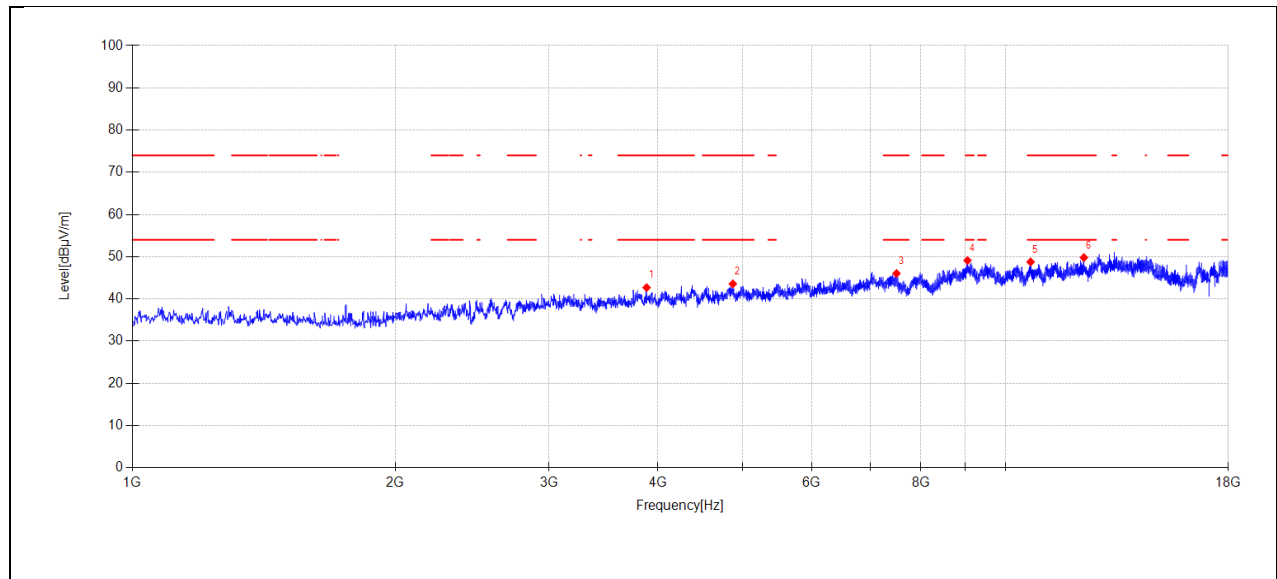
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4107.600	45.93	31.16	4.64	-39.71	42.02	74.00	31.98	PK
2	4542.800	46.69	31.98	4.94	-39.75	43.86	74.00	30.14	PK
3	7327.400	43.81	37.00	5.73	-39.87	46.67	74.00	27.33	PK
4	9076.700	42.03	38.42	6.79	-38.68	48.56	74.00	25.44	PK
5	11429.500	43.44	39.51	7.58	-39.60	50.93	74.00	23.07	PK
6	12354.300	41.49	39.24	7.81	-39.32	49.22	74.00	24.78	PK

Test Mode:	BLE 2M	Frequency(MHz):	2404
Polarity:	Vertical	Test Voltage:	Battery



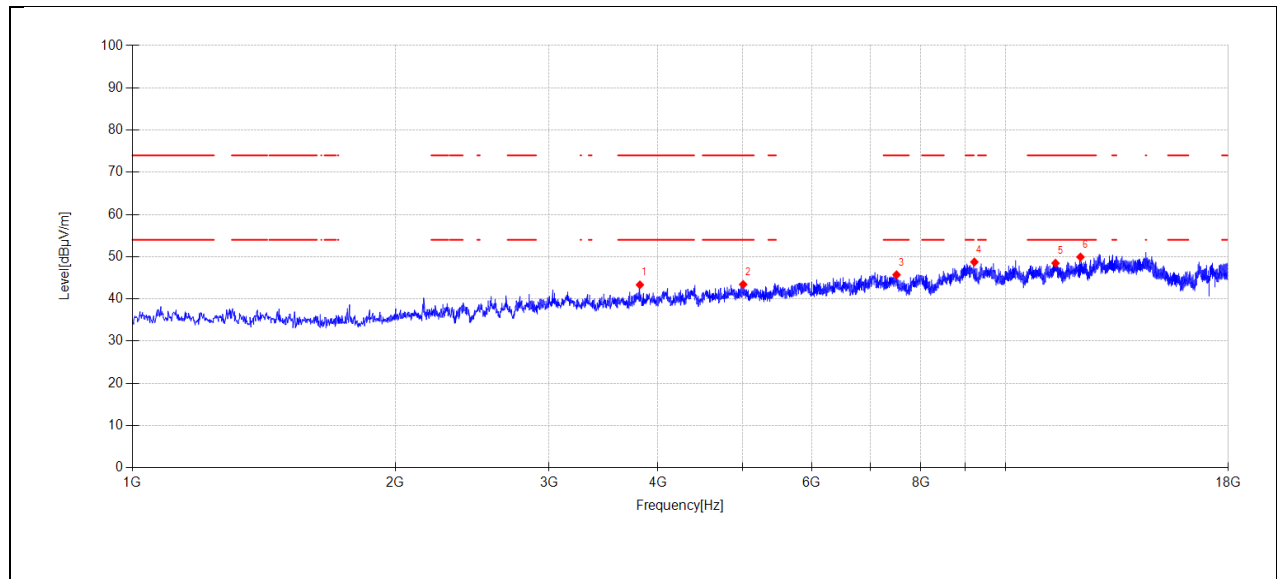
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	3798.200	47.10	30.86	4.54	-39.62	42.88	74.00	31.12	PK
2	5044.300	45.24	33.09	5.27	-39.79	43.81	74.00	30.19	PK
3	7500.800	43.57	36.89	5.80	-39.85	46.41	74.00	27.59	PK
4	10681.500	41.60	39.44	7.17	-39.63	48.58	74.00	25.42	PK
5	12055.100	41.55	39.28	7.81	-39.56	49.08	74.00	24.92	PK
6	16046.700	40.18	38.05	8.65	-39.56	47.32	74.00	26.68	PK

Test Mode:	BLE 2M	Frequency(MHz):	2440
Polarity:	Horizontal	Test Voltage:	Battery



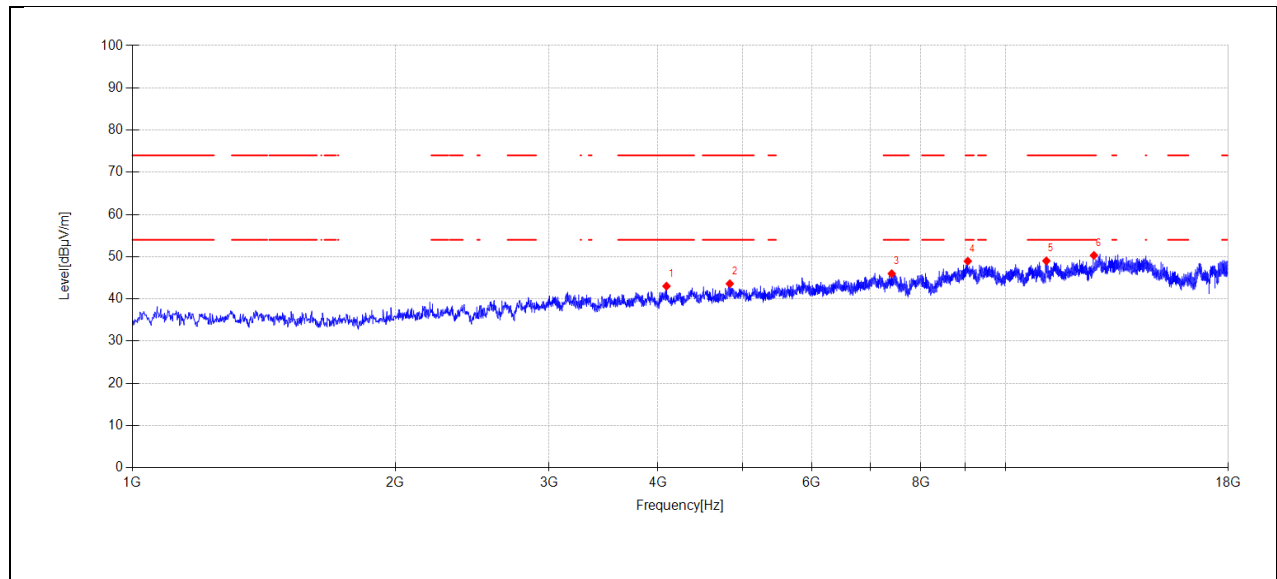
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	3881.500	47.11	30.68	4.55	-39.65	42.69	74.00	31.31	PK
2	4872.600	45.21	32.99	5.16	-39.79	43.57	74.00	30.43	PK
3	7502.500	43.21	36.87	5.80	-39.85	46.03	74.00	27.97	PK
4	9047.800	42.08	38.88	6.79	-38.65	49.10	74.00	24.90	PK
5	10684.900	41.76	39.45	7.18	-39.63	48.76	74.00	25.24	PK
6	12298.200	41.94	39.40	7.81	-39.36	49.79	74.00	24.21	PK

Test Mode:	BLE 2M	Frequency(MHz):	2440
Polarity:	Vertical	Test Voltage:	Battery



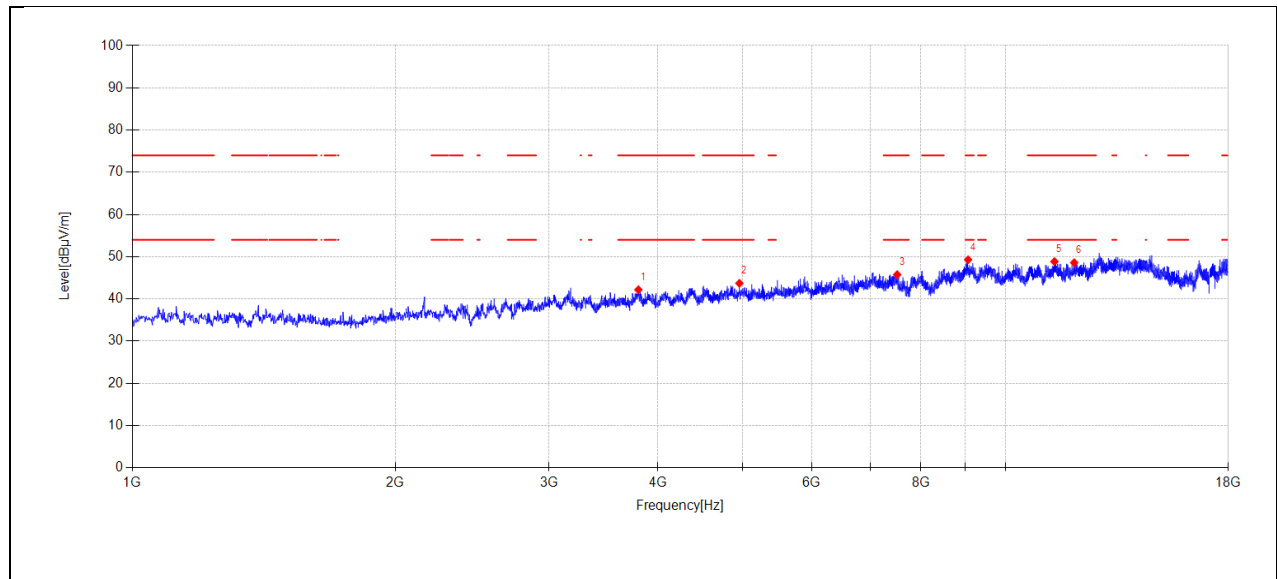
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	3813.500	47.69	30.74	4.55	-39.63	43.35	74.00	30.65	PK
2	5006.900	44.97	33.01	5.25	-39.80	43.43	74.00	30.57	PK
3	7504.200	42.94	36.84	5.80	-39.85	45.73	74.00	28.27	PK
4	9212.700	42.41	38.40	6.77	-38.83	48.75	-	-	PK
5	11410.800	40.81	39.69	7.57	-39.60	48.47	74.00	25.53	PK
6	12187.700	42.33	39.24	7.81	-39.45	49.93	74.00	24.07	PK

Test Mode:	BLE 2M	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	Battery



NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4090.600	46.99	31.12	4.63	-39.71	43.03	74.00	30.97	PK
2	4833.500	45.60	32.64	5.14	-39.78	43.60	74.00	30.40	PK
3	7409.000	43.41	36.68	5.76	-39.86	45.99	74.00	28.01	PK
4	9054.600	41.99	38.82	6.79	-38.66	48.94	74.00	25.06	PK
5	11138.800	42.29	38.86	7.47	-39.60	49.02	74.00	24.98	PK
6	12628.000	42.45	39.16	7.80	-39.10	50.31	74.00	23.69	PK

Test Mode:	BLE 2M	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	Battery



NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	3798.200	46.40	30.86	4.54	-39.62	42.18	74.00	31.82	PK
2	4957.600	45.21	33.08	5.22	-39.80	43.71	74.00	30.29	PK
3	7516.100	43.13	36.67	5.80	-39.85	45.75	74.00	28.25	PK
4	9061.400	42.48	38.69	6.79	-38.67	49.29	74.00	24.71	PK
5	11378.500	41.35	39.54	7.56	-39.60	48.85	74.00	25.15	PK
6	11987.100	41.46	38.94	7.80	-39.60	48.60	74.00	25.40	PK

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to FCC 47 CFR §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

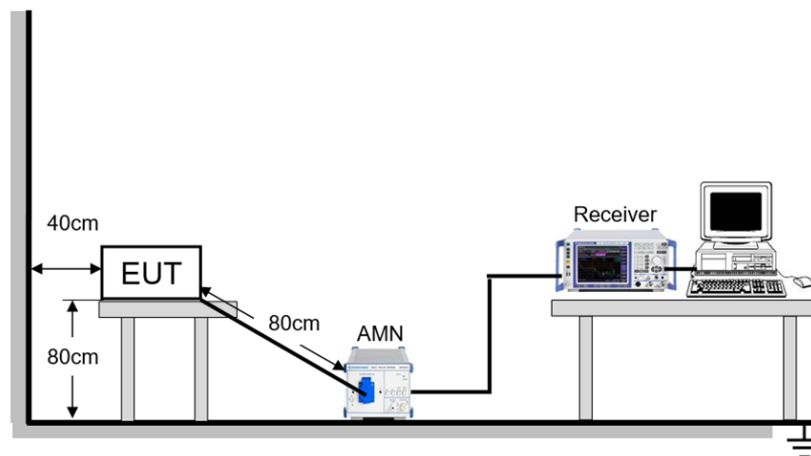
*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

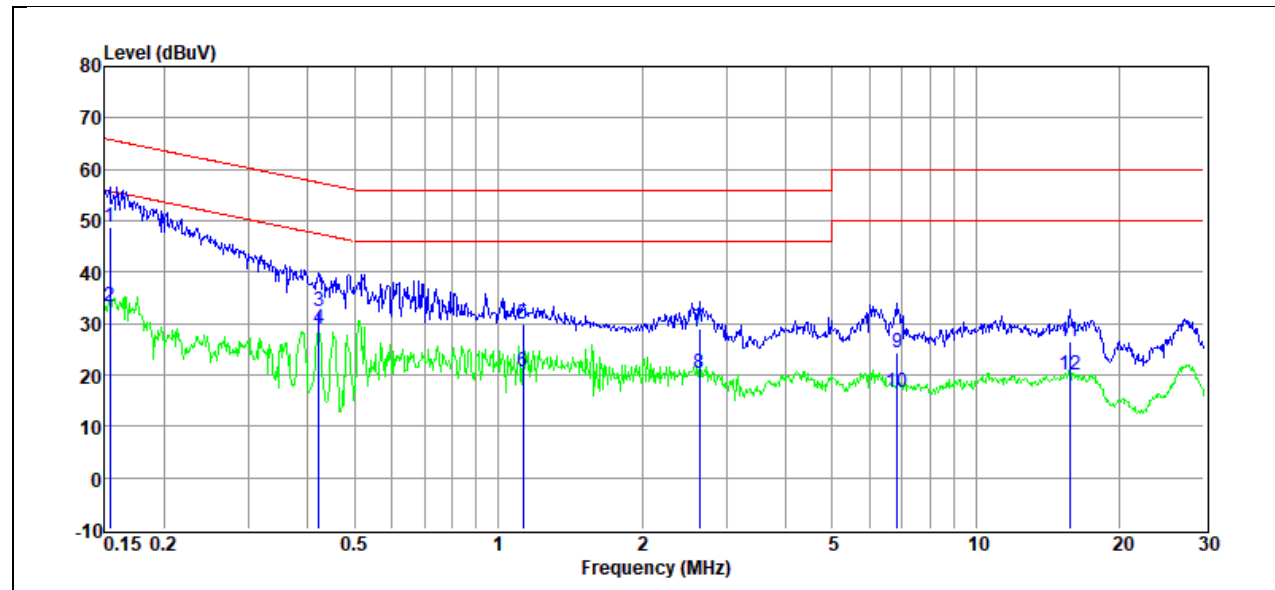
Temperature	24.1°C	Relative Humidity	56.5%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	Mar. 02, 2026	Test By	Deacon Tan
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TEST RESULTS

Test Mode:	BLE 1M	Frequency(MHz):	2402
Line:	NEUTRAL		



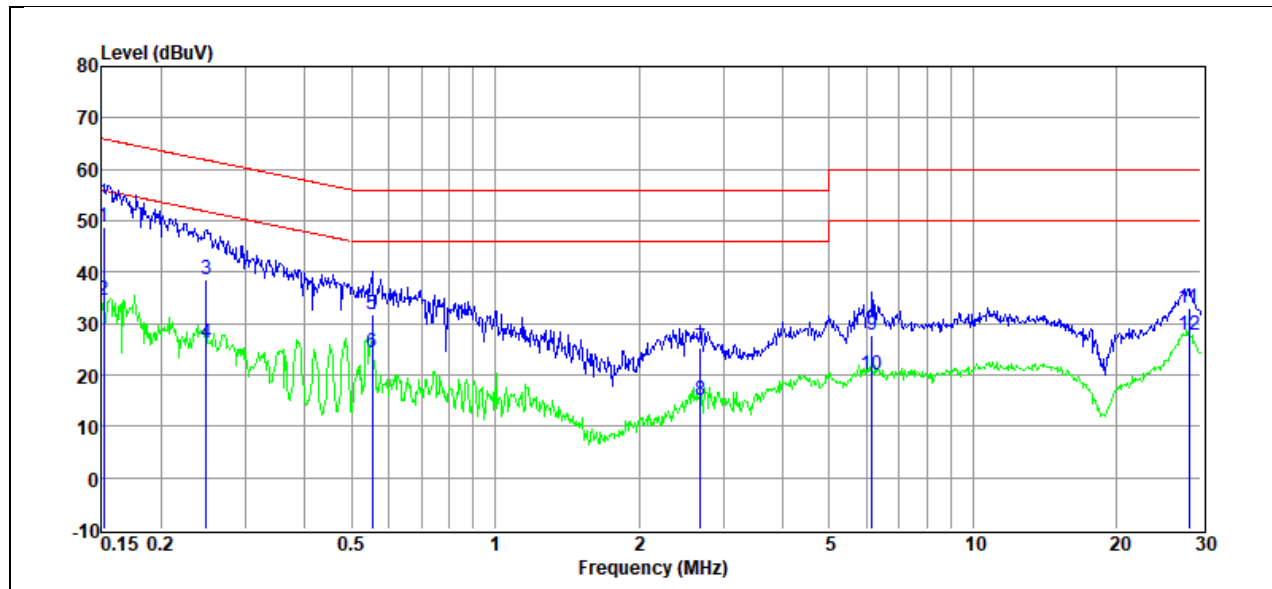
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Margin (dB)	Detector	Phase
1	0.15	29.08	9.75	0.05	9.89	48.77	65.78	17.01	QP	NEUTRAL
2	0.15	13.48	9.75	0.05	9.89	33.17	55.78	22.61	Average	NEUTRAL
3	0.42	12.70	9.83	0.08	9.89	32.50	57.42	24.92	QP	NEUTRAL
4	0.42	9.24	9.83	0.08	9.89	29.04	47.42	18.38	Average	NEUTRAL
5	1.13	9.87	9.91	0.15	9.90	29.83	56.00	26.17	QP	NEUTRAL
6	1.13	0.62	9.91	0.15	9.90	20.58	46.00	25.42	Average	NEUTRAL
7	2.64	9.03	9.80	0.17	9.88	28.88	56.00	27.12	QP	NEUTRAL
8	2.64	0.61	9.80	0.17	9.88	20.46	46.00	25.54	Average	NEUTRAL
9	6.84	4.35	9.86	0.22	9.85	24.28	60.00	35.72	QP	NEUTRAL
10	6.84	-3.27	9.86	0.22	9.85	16.66	50.00	33.34	Average	NEUTRAL
11	15.72	5.70	10.39	0.36	9.91	26.36	60.00	33.64	QP	NEUTRAL
12	15.72	-0.73	10.39	0.36	9.91	19.93	50.00	30.07	Average	NEUTRAL

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	BLE 1M	Frequency(MHz):	2402
Line:	LINE		



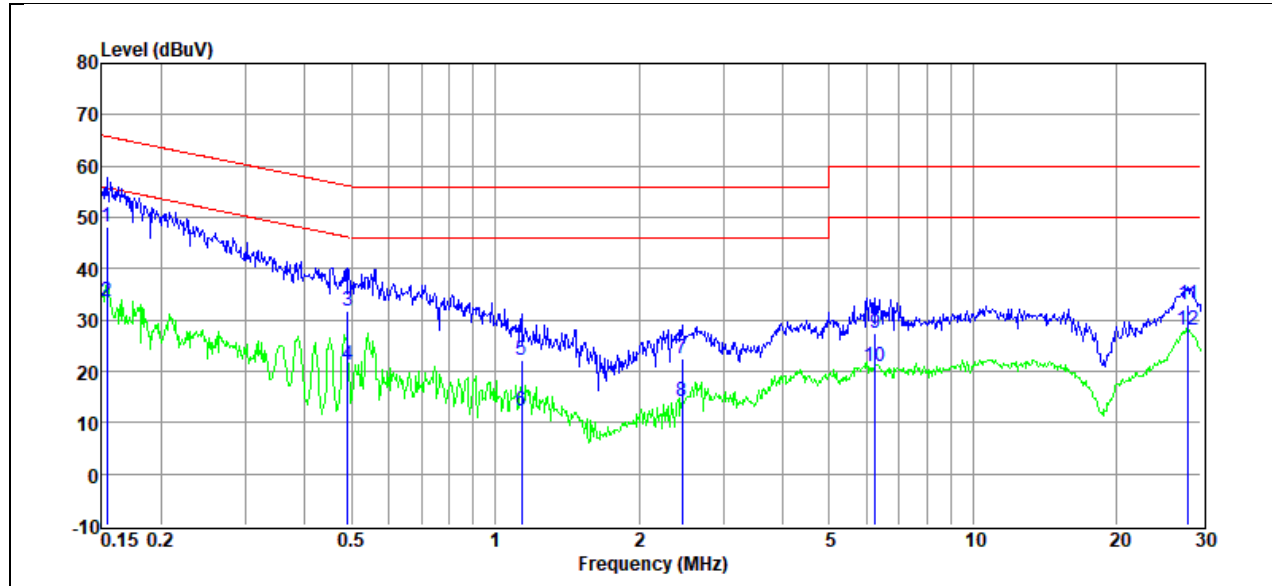
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBuV)	Limit Line (dBuV)	Margin (dB)	Detector	Phase
1	0.15	28.88	9.85	0.05	9.89	48.67	65.91	17.24	QP	LINE
2	0.15	14.87	9.85	0.05	9.89	34.66	55.91	21.25	Average	LINE
3	0.25	18.73	9.82	0.06	9.89	38.50	61.82	23.32	QP	LINE
4	0.25	6.35	9.82	0.06	9.89	26.12	51.82	25.70	Average	LINE
5	0.55	11.93	9.86	0.10	9.89	31.78	56.00	24.22	QP	LINE
6	0.55	4.49	9.86	0.10	9.89	24.34	46.00	21.66	Average	LINE
7	2.69	5.37	9.88	0.17	9.88	25.30	56.00	30.70	QP	LINE
8	2.69	-5.01	9.88	0.17	9.88	14.92	46.00	31.08	Average	LINE
9	6.15	7.81	9.94	0.21	9.85	27.81	60.00	32.19	QP	LINE
10	6.15	0.11	9.94	0.21	9.85	20.11	50.00	29.89	Average	LINE
11	28.30	12.18	10.43	0.43	9.98	33.02	60.00	26.98	QP	LINE
12	28.30	6.98	10.43	0.43	9.98	27.82	50.00	22.18	Average	LINE

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	BLE 2M	Frequency(MHz):	2404
Line:	LINE		



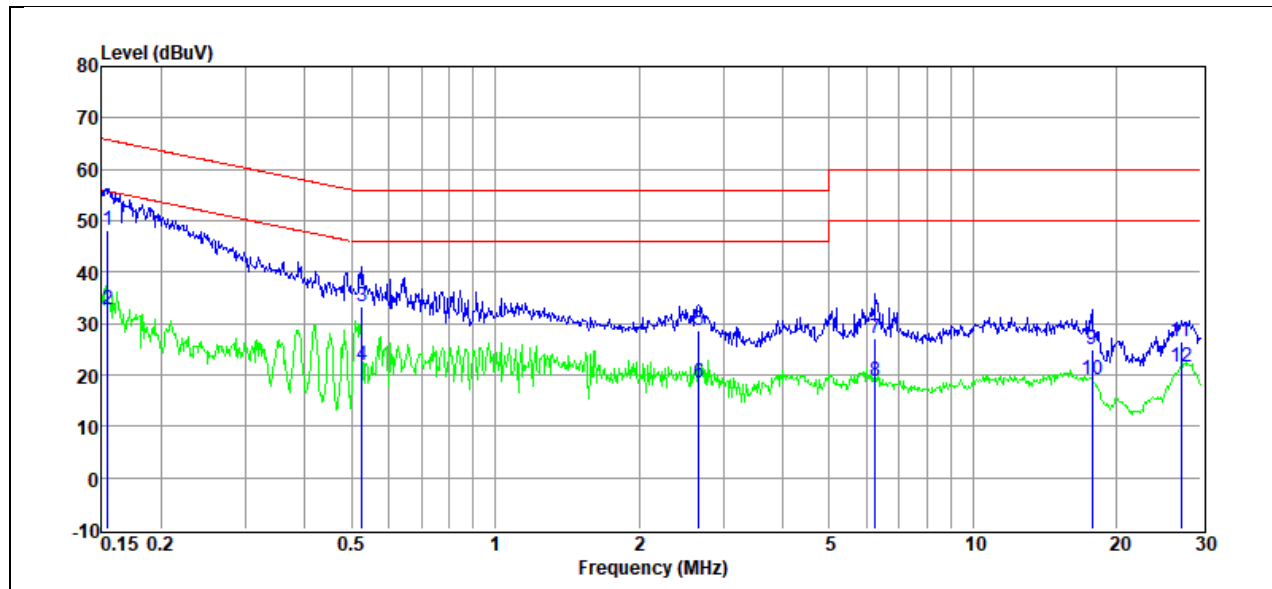
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Margin (dB)	Detector	Phase
1	0.15	28.35	9.85	0.05	9.89	48.14	65.78	17.64	QP	LINE
2	0.15	13.68	9.85	0.05	9.89	33.47	55.78	22.31	Average	LINE
3	0.49	12.13	9.76	0.09	9.89	31.87	56.14	24.27	QP	LINE
4	0.49	1.58	9.76	0.09	9.89	21.32	46.14	24.82	Average	LINE
5	1.14	2.27	9.94	0.15	9.90	22.26	56.00	33.74	QP	LINE
6	1.14	-7.85	9.94	0.15	9.90	12.14	46.00	33.86	Average	LINE
7	2.46	2.72	9.85	0.17	9.88	22.62	56.00	33.38	QP	LINE
8	2.46	-5.64	9.85	0.17	9.88	14.26	46.00	31.74	Average	LINE
9	6.25	7.54	9.94	0.21	9.85	27.54	60.00	32.46	QP	LINE
10	6.25	0.95	9.94	0.21	9.85	20.95	50.00	29.05	Average	LINE
11	28.15	12.24	10.43	0.43	9.98	33.08	60.00	26.92	QP	LINE
12	28.15	7.11	10.43	0.43	9.98	27.95	50.00	22.05	Average	LINE

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	BLE 2M	Frequency(MHz):	2404
Line:	NEUTRAL		



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBuV)	Limit Line (dBuV)	Margin (dB)	Detector	Phase
1	0.15	28.48	9.75	0.05	9.89	48.17	65.74	17.57	QP	NEUTRAL
2	0.15	13.09	9.75	0.05	9.89	32.78	55.74	22.96	Average	NEUTRAL
3	0.53	13.51	9.90	0.09	9.89	33.39	56.00	22.61	QP	NEUTRAL
4	0.53	2.01	9.90	0.09	9.89	21.89	46.00	24.11	Average	NEUTRAL
5	2.66	8.85	9.81	0.17	9.88	28.71	56.00	27.29	QP	NEUTRAL
6	2.66	-1.45	9.81	0.17	9.88	18.41	46.00	27.59	Average	NEUTRAL
7	6.25	7.19	9.86	0.21	9.85	27.11	60.00	32.89	QP	NEUTRAL
8	6.25	-1.13	9.86	0.21	9.85	18.79	50.00	31.21	Average	NEUTRAL
9	17.76	4.09	10.44	0.38	9.93	24.84	60.00	35.16	QP	NEUTRAL
10	17.76	-1.54	10.44	0.38	9.93	19.21	50.00	30.79	Average	NEUTRAL
11	27.27	5.36	10.76	0.43	9.98	26.53	60.00	33.47	QP	NEUTRAL
12	27.27	0.27	10.76	0.43	9.98	21.44	50.00	28.56	Average	NEUTRAL

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA

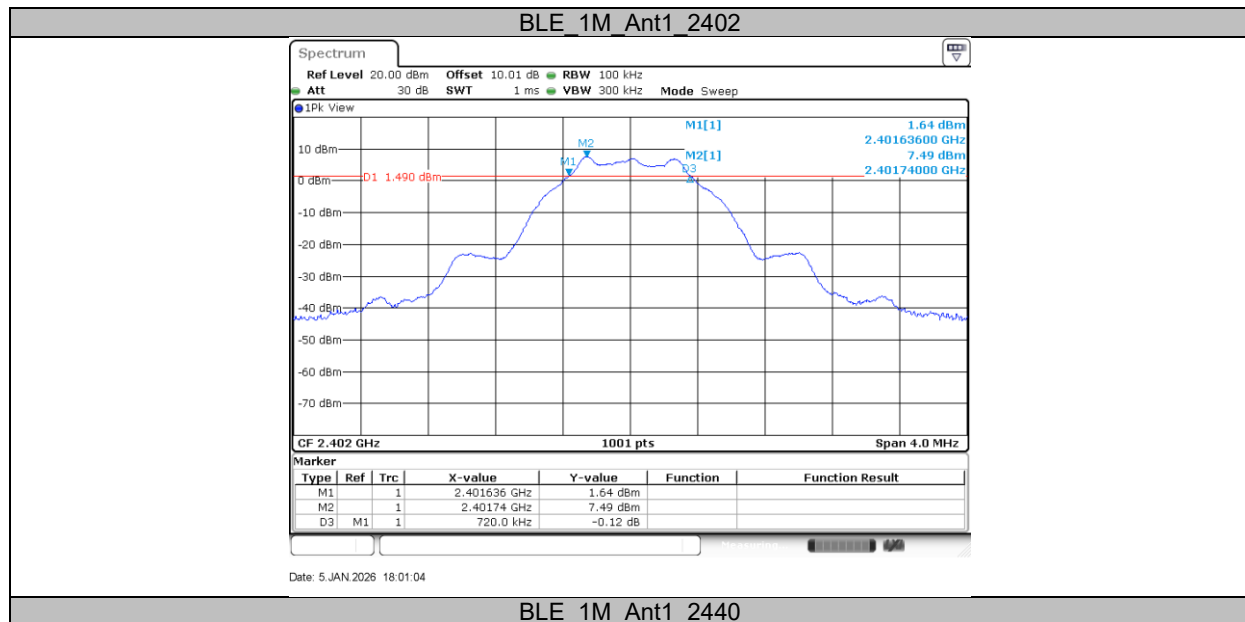
11.1. APPENDIX A: DTS BANDWIDTH

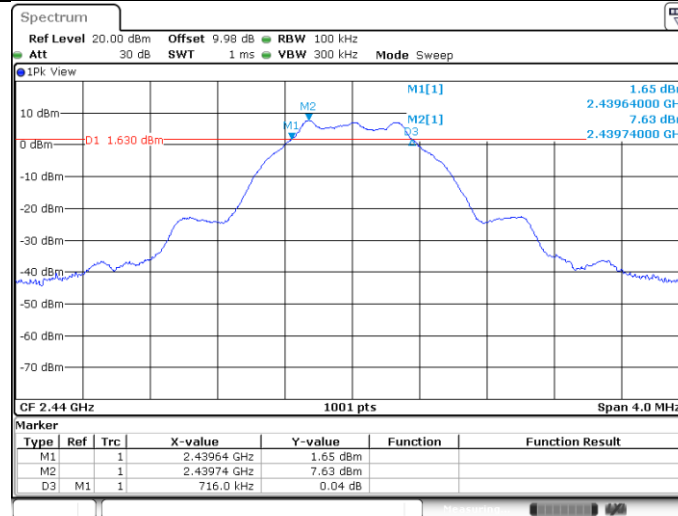
11.1.1. Test Result-Ant BT1

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.72	2401.64	2402.36	0.5	PASS
		2440	0.72	2439.64	2440.36	0.5	PASS
		2480	0.71	2479.64	2480.36	0.5	PASS
BLE_2M	Ant1	2404	1.28	2403.33	2404.61	0.5	PASS
		2440	1.28	2439.33	2440.61	0.5	PASS
		2478	1.28	2477.33	2478.61	0.5	PASS

Note: All the antennas had been tested, but only the worst data were recorded in the report.

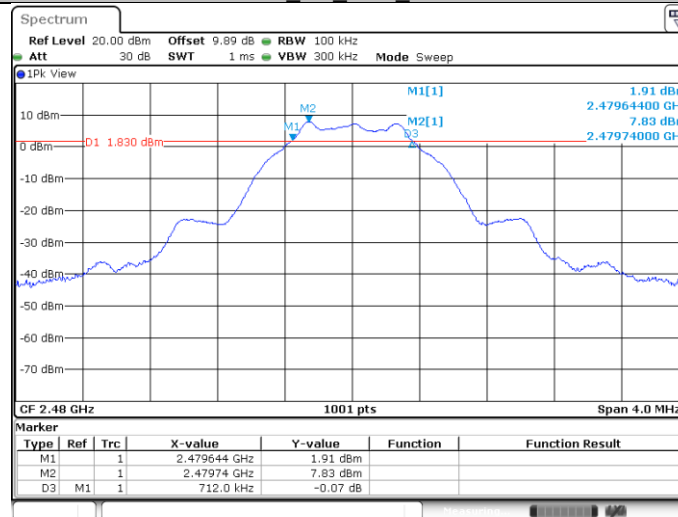
11.1.2. Test Graphs-Ant BT1





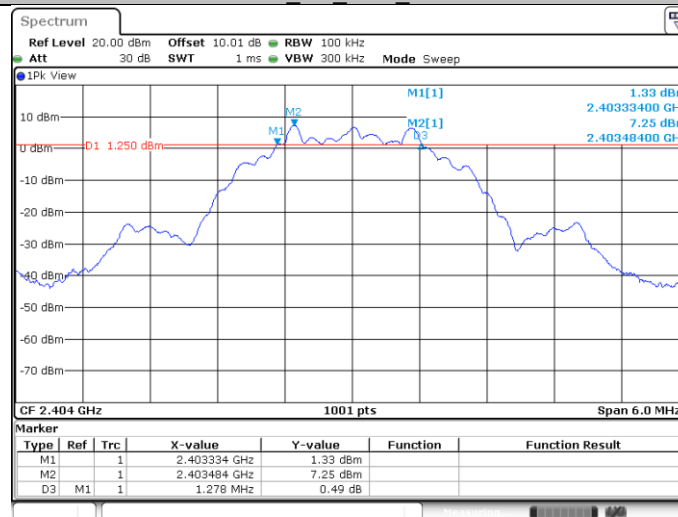
Date: 5 JAN 2026 18:03:15

BLE 1M Ant1_2480

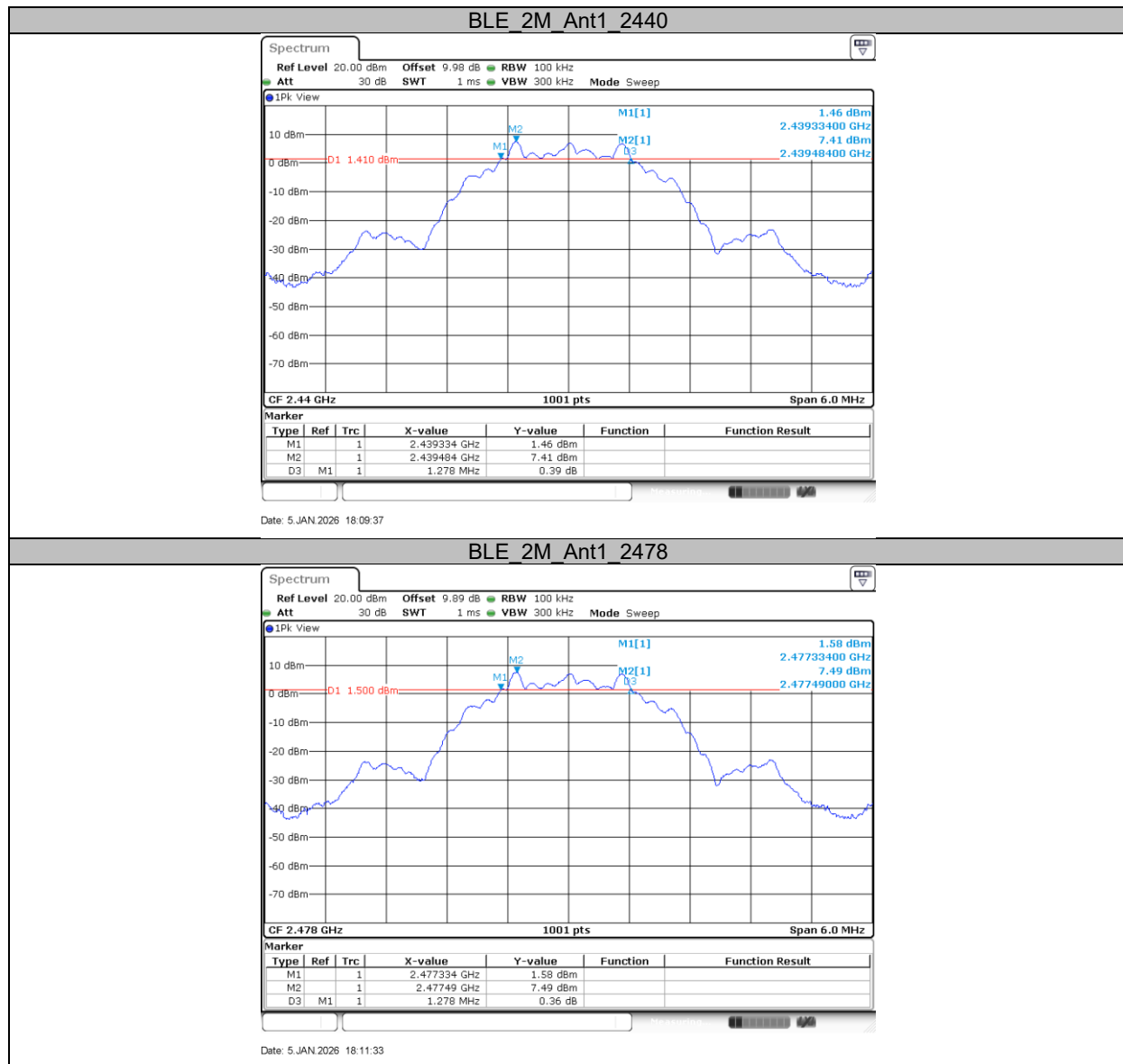


Date: 5 JAN 2026 18:05:13

BLE 2M Ant1_2404



Date: 5 JAN 2026 18:07:27



Note: To reduce report size, only one test plot for each bandwidth is recorded in the report as a reference for test settings.

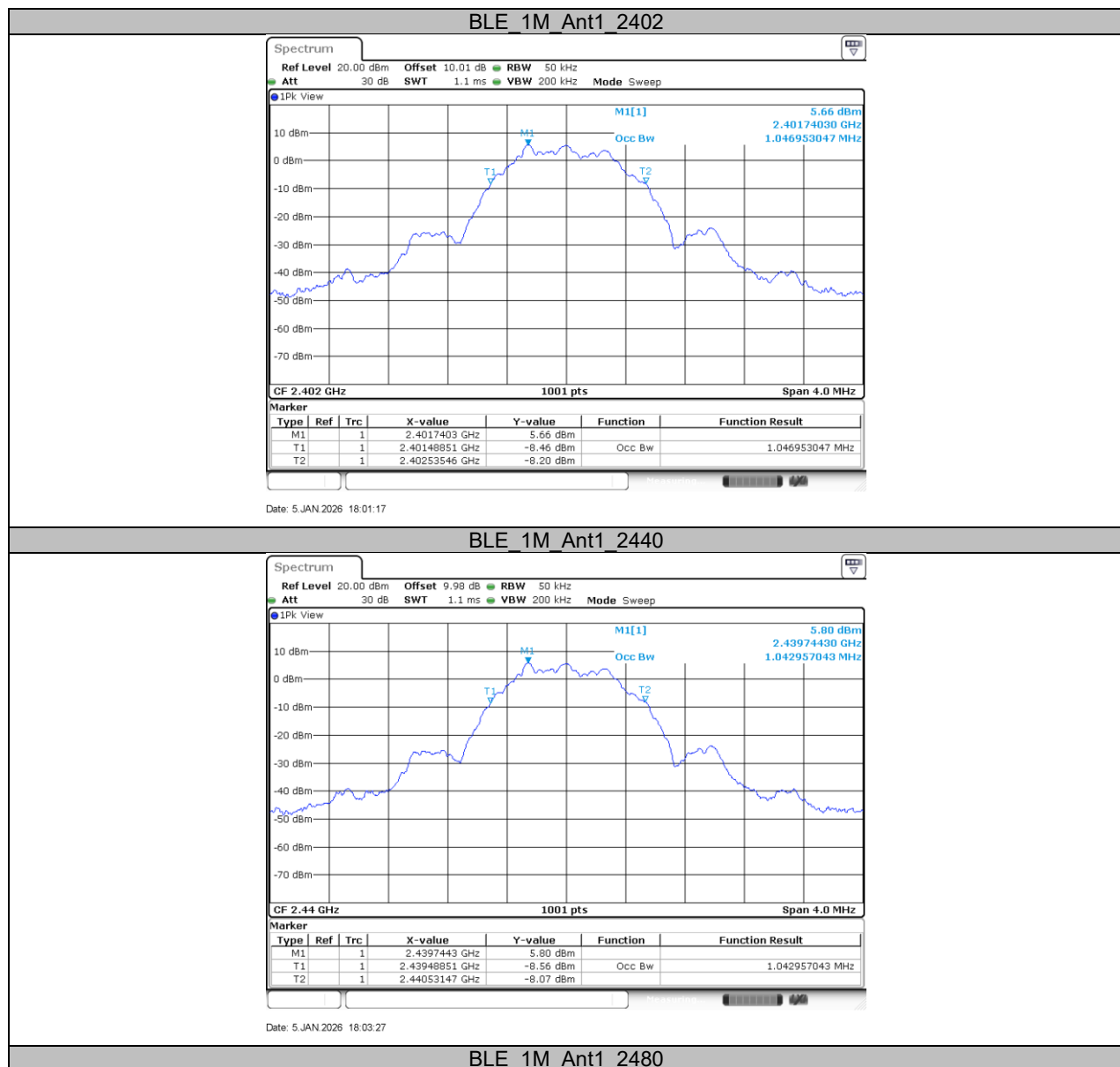
11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

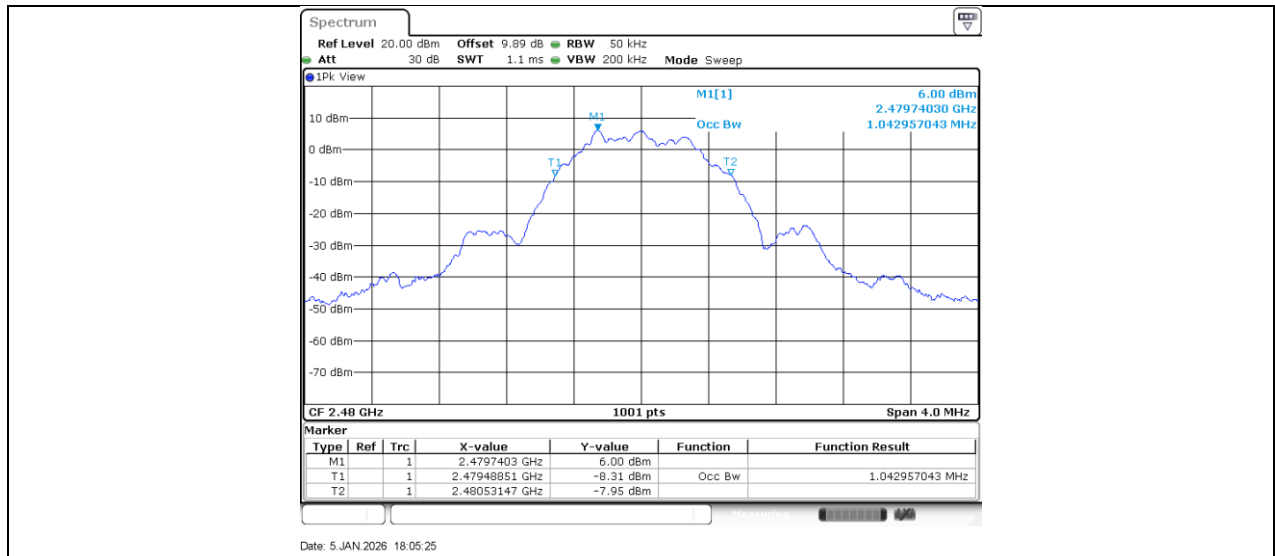
11.2.1. Test Result-Ant BT1

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0470	2401.4885	2402.5355	---	---
		2440	1.0430	2439.4885	2440.5315	---	---
		2480	1.0430	2479.4885	2480.5315	---	---
BLE_2M	Ant1	2404	2.0559	2402.9870	2405.0430	---	---
		2440	2.0559	2438.9870	2441.0430	---	---
		2478	2.0559	2476.9870	2479.0430	---	---

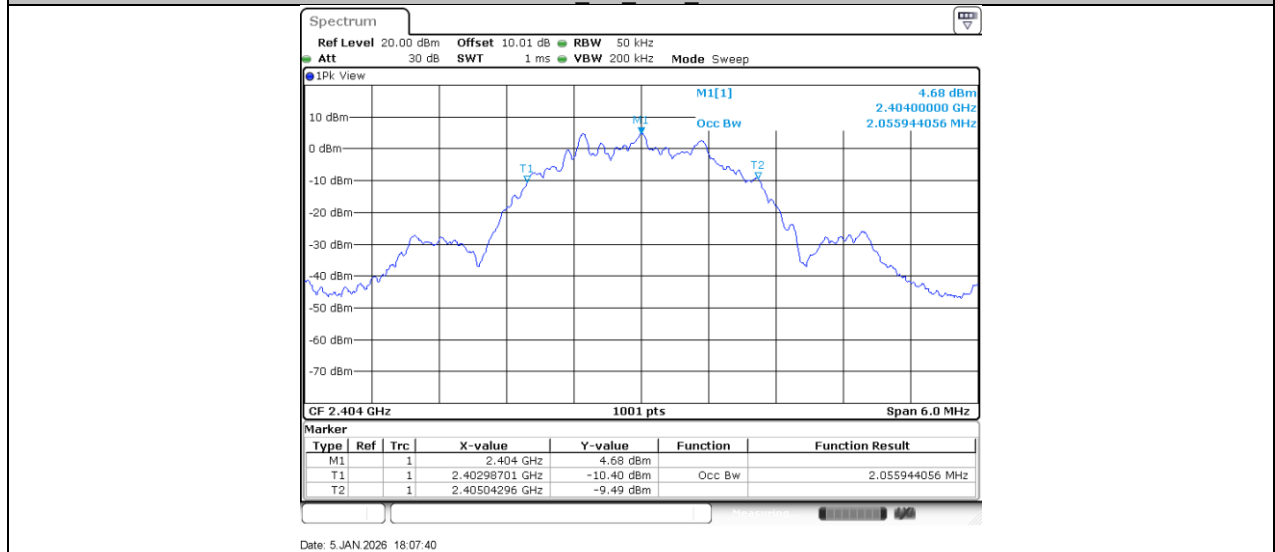
Note: All the antennas had been tested, but only the worst data were recorded in the report.

11.2.2. Test Graphs-Ant BT1

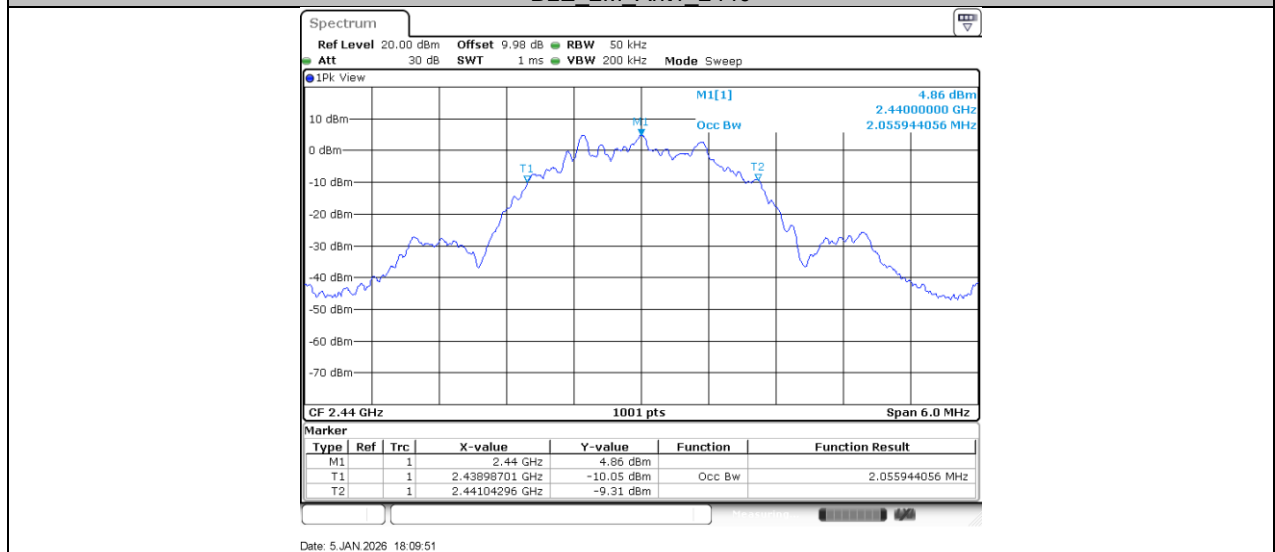


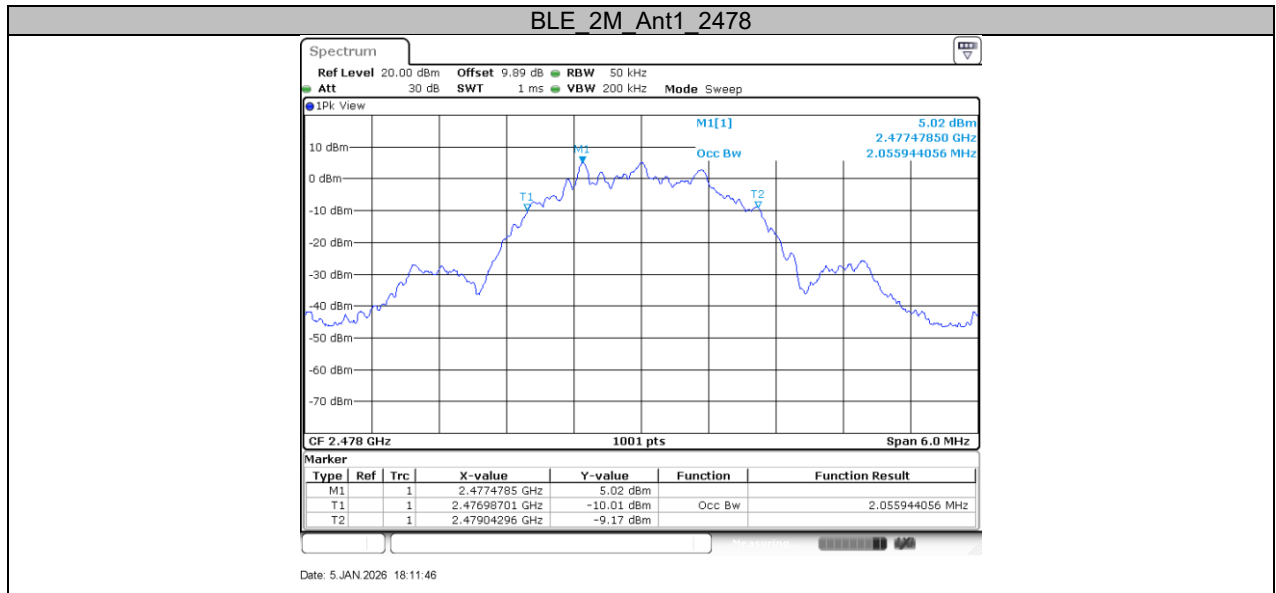


BLE_2M_Ant1_2404



BLE_2M_Ant1_2440





11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

11.3.1. Test Result-Ant BT0

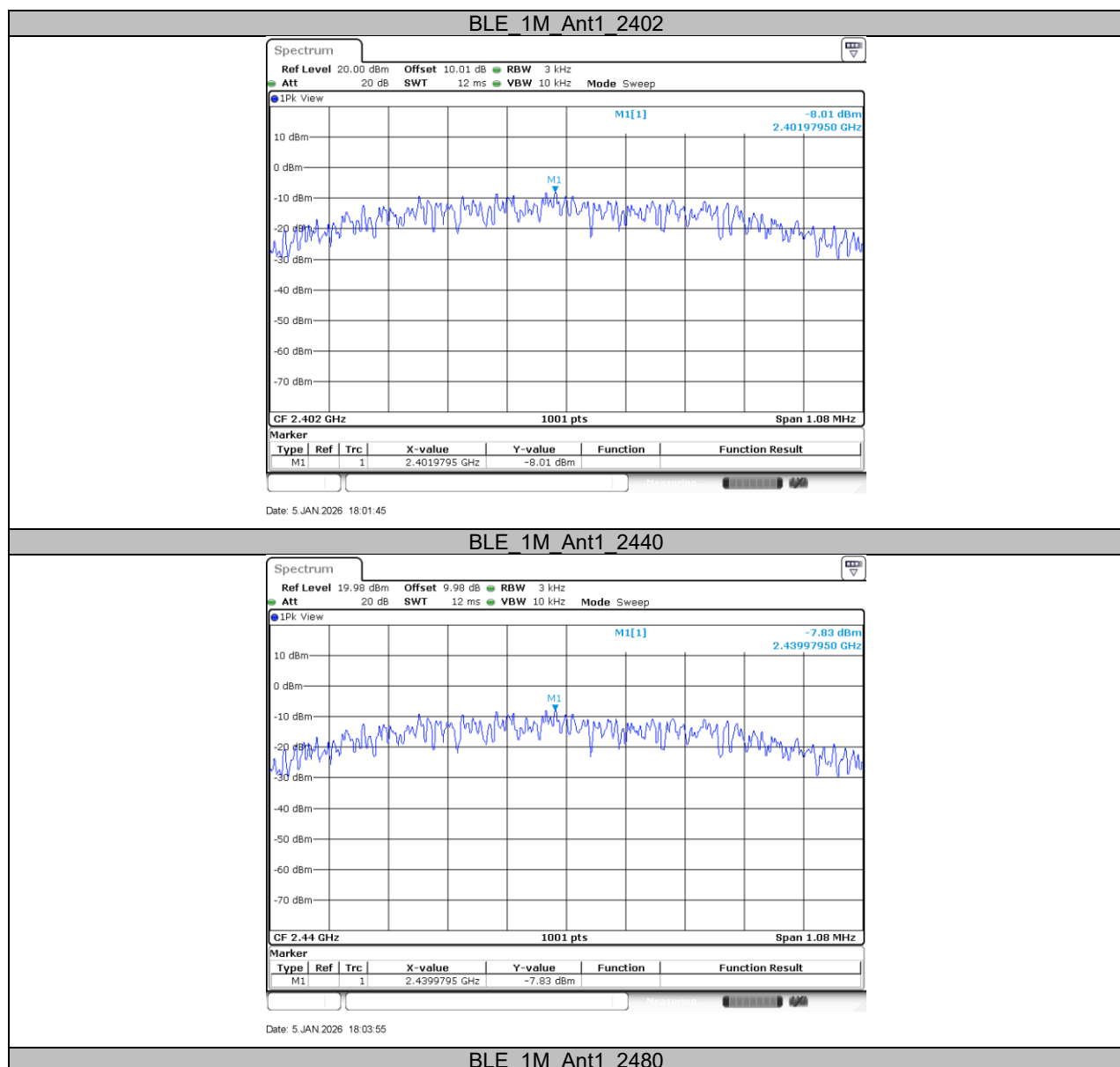
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.65	≤30	9.69	≤36	PASS
		2440	8.79	≤30	10.83	≤36	PASS
		2480	8.49	≤30	10.53	≤36	PASS
BLE_2M	Ant1	2404	7.44	≤30	9.48	≤36	PASS
		2440	8.79	≤30	10.83	≤36	PASS
		2478	8.39	≤30	10.43	≤36	PASS

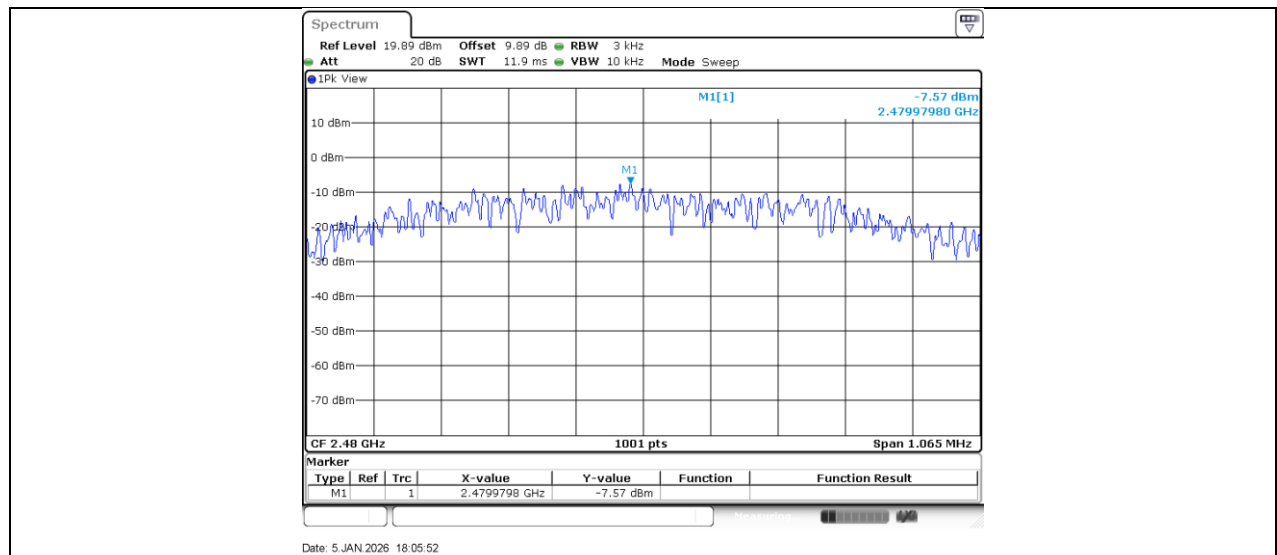
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

11.4.1. Test Result-Ant BT1

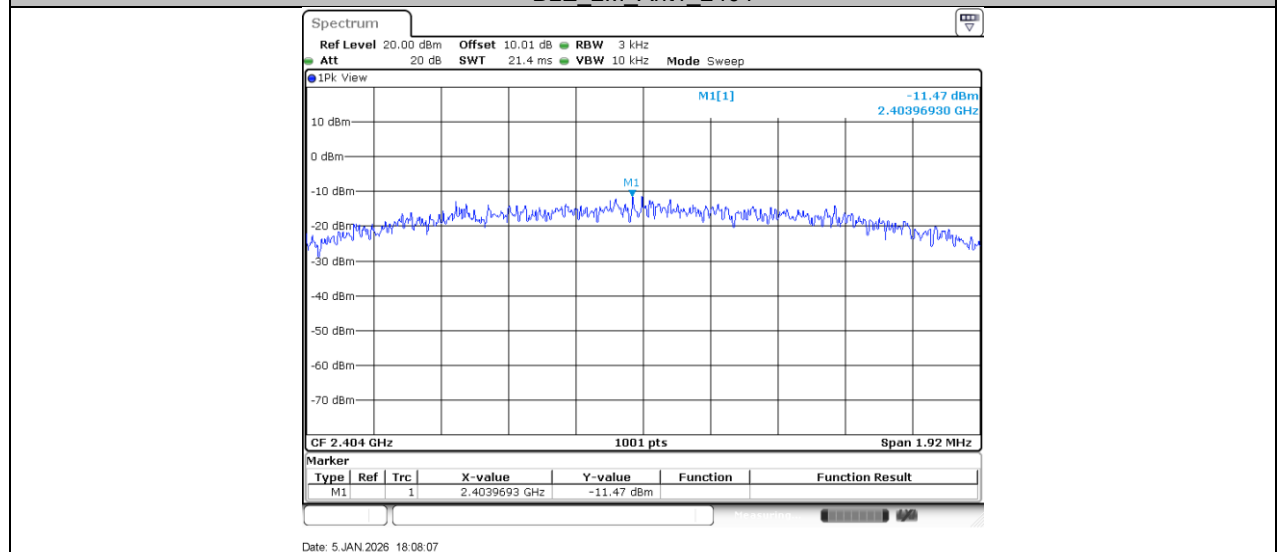
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.01	≤8.00	PASS
		2440	-7.83	≤8.00	PASS
		2480	-7.57	≤8.00	PASS
BLE_2M	Ant1	2404	-11.47	≤8.00	PASS
		2440	-11.19	≤8.00	PASS
		2478	-11.11	≤8.00	PASS

11.4.2. Test Graphs-Ant BT1

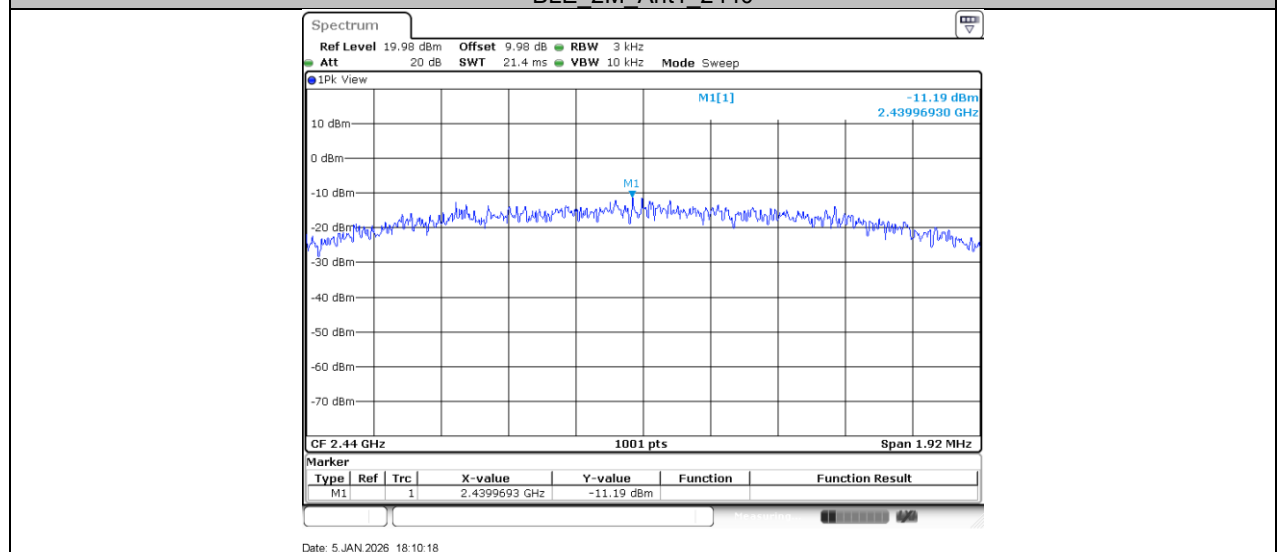


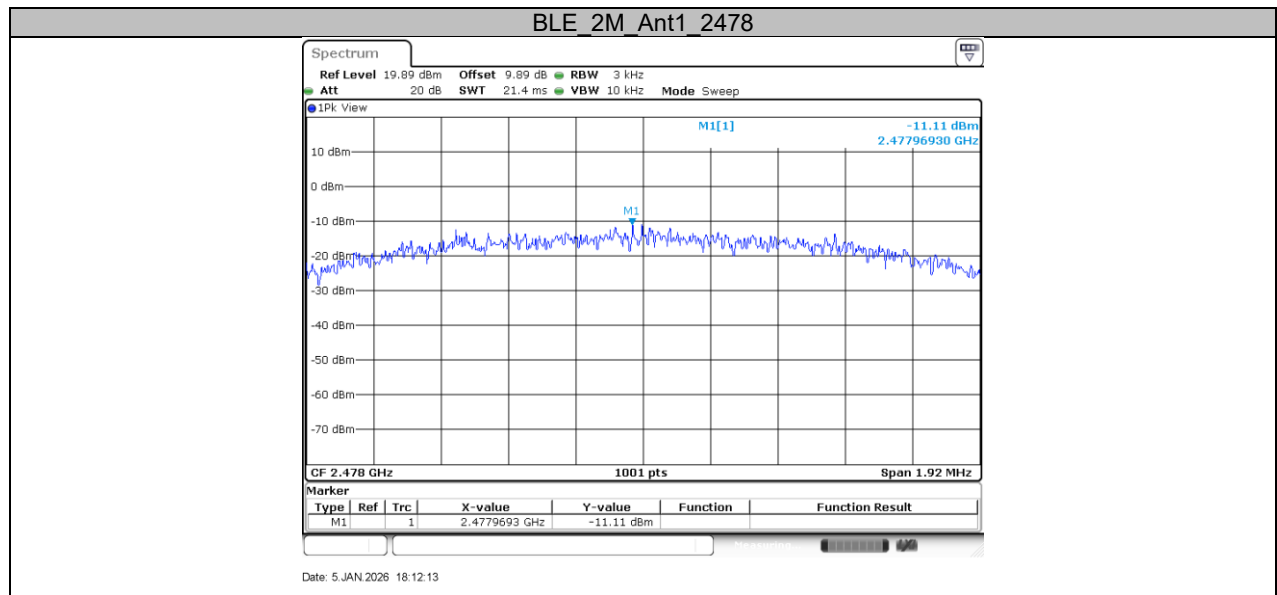


BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



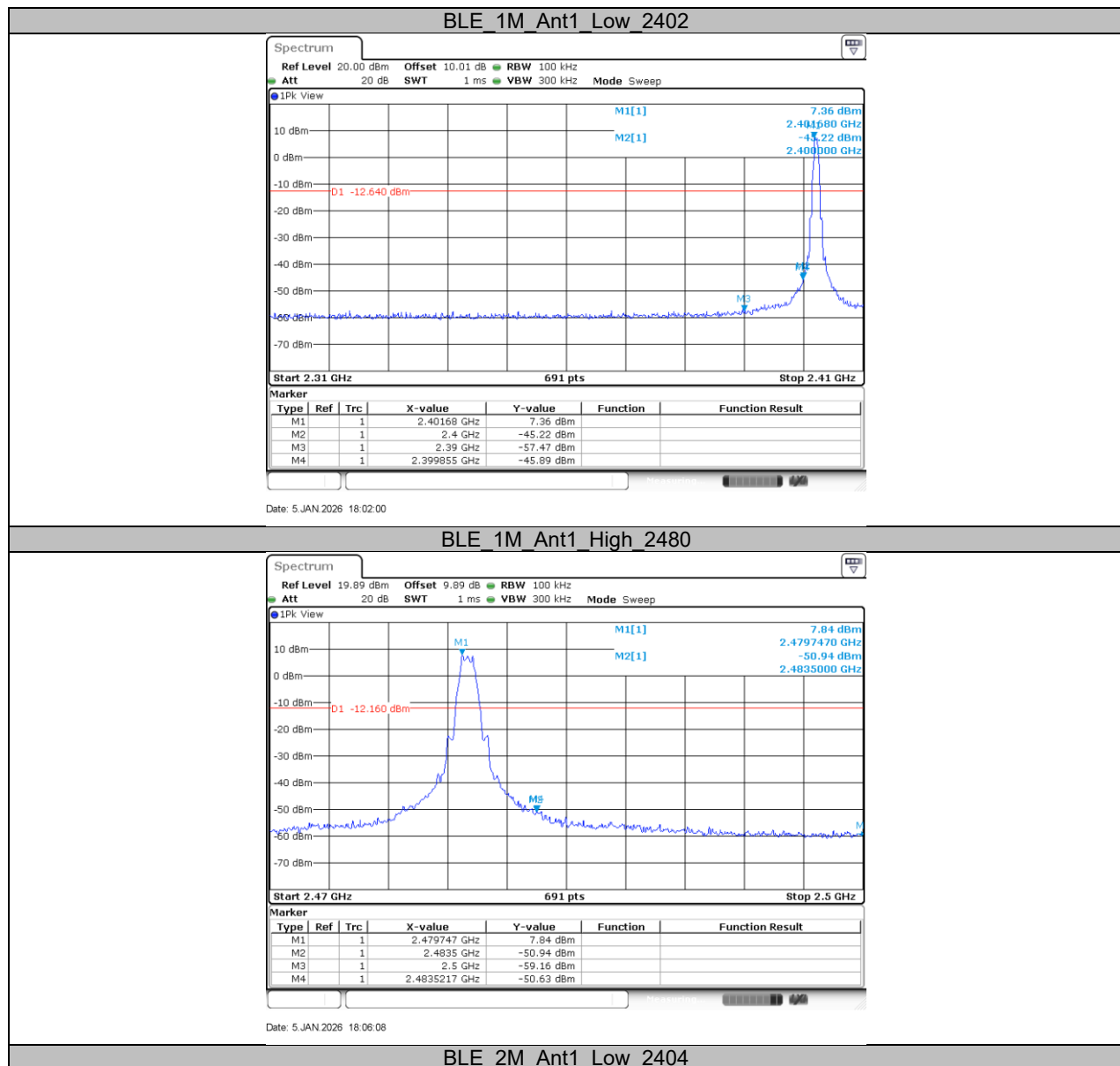


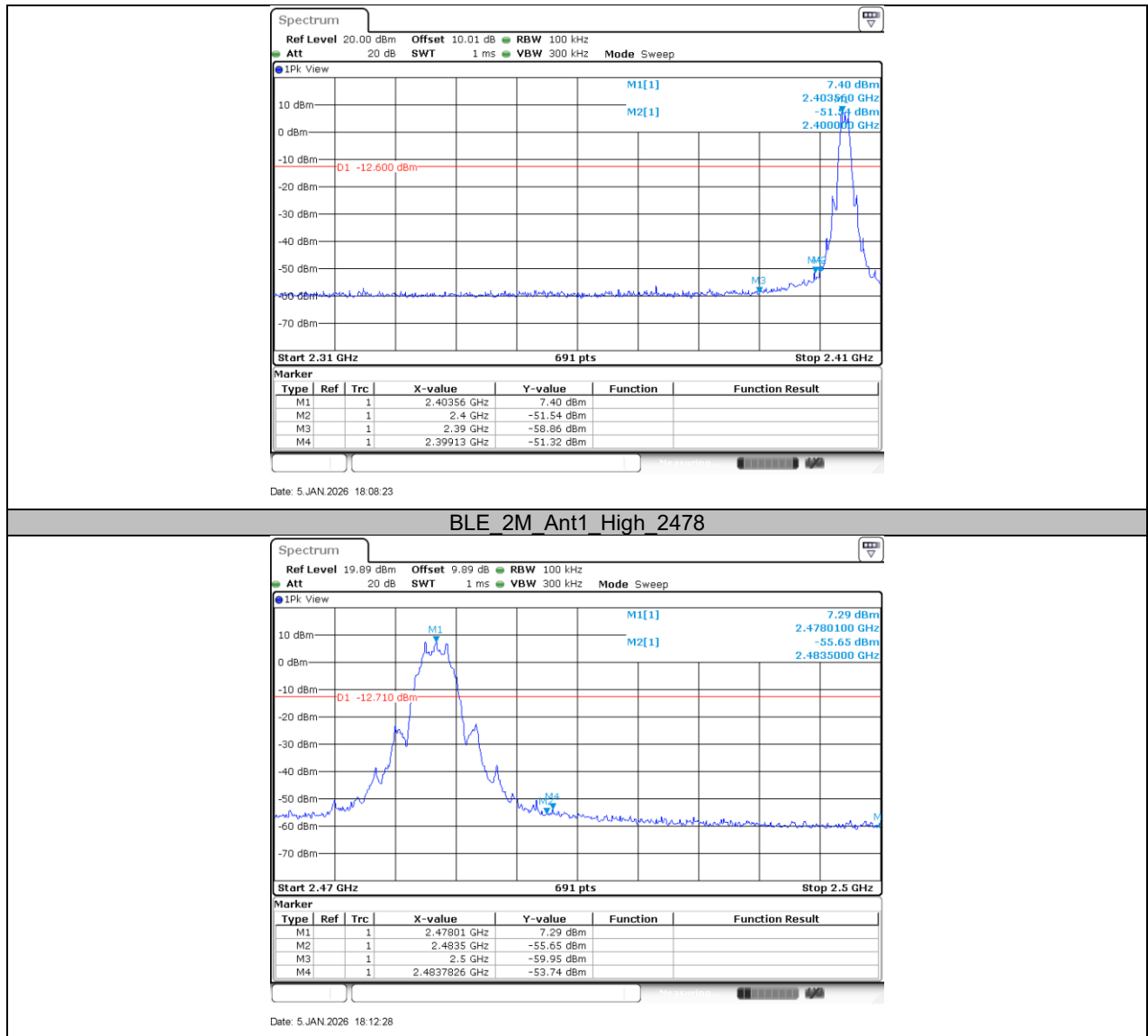
11.5. APPENDIX E: BAND EDGE MEASUREMENTS

11.5.1. Test Result-Ant BT1

Mode	Frequency [MHz]	Measured Range	Verdict
GFSK 1M	2402	2.310 GHz - 2.410 GHz	Pass
	2480	2.470 GHz - 2.500 GHz	Pass
GFSK 2M	2404	2.310 GHz - 2.410 GHz	Pass
	2478	2.470 GHz - 2.500 GHz	Pass

11.5.2. Test Graphs-Ant BT1



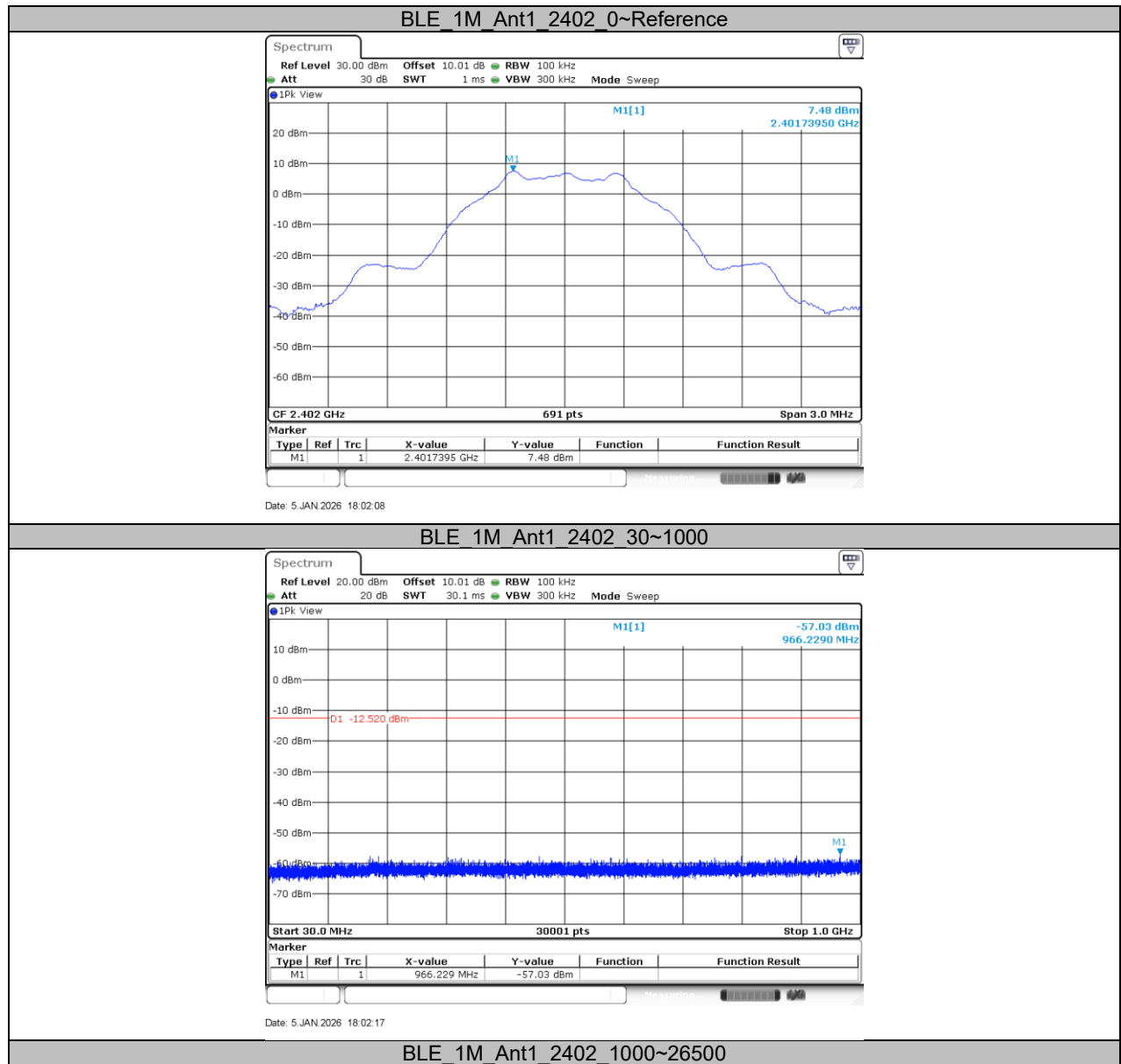


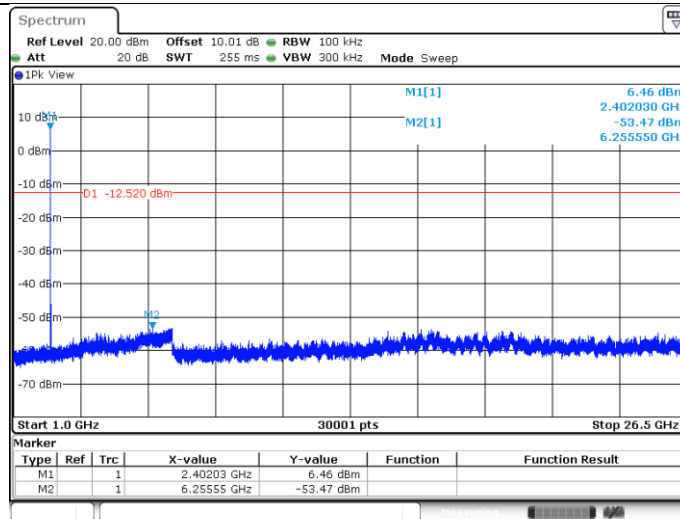
Note: To reduce report size, only one low and high channel test plots are recorded in the report as reference for test settings.

11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION**11.6.1. Test Result-Ant BT1**

Mode	Frequency [MHz]	Verdict
GFSK 1M	2402	Pass
	2440	Pass
	2480	Pass
GFSK 2M	2404	Pass
	2440	Pass
	2478	Pass

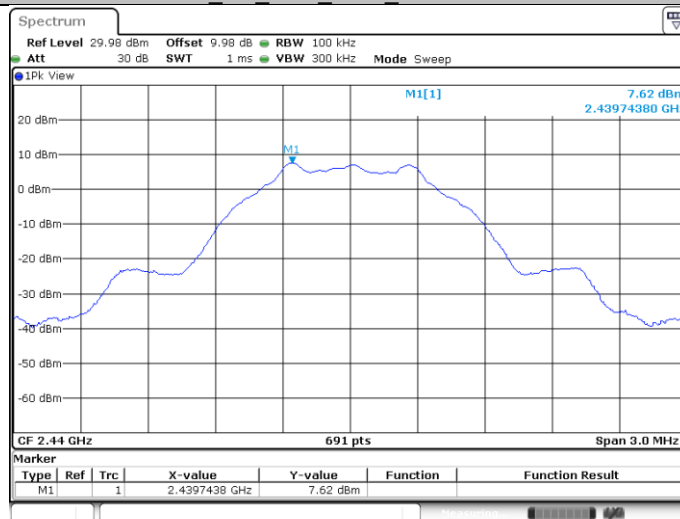
11.6.2. Test Graphs-Ant BT1





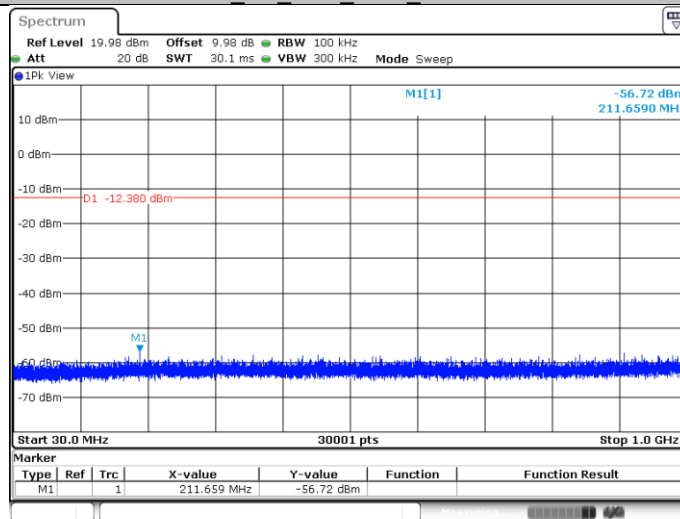
Date: 5 JAN 2026 18:02:39

BLE 1M Ant1 2440_0~Reference

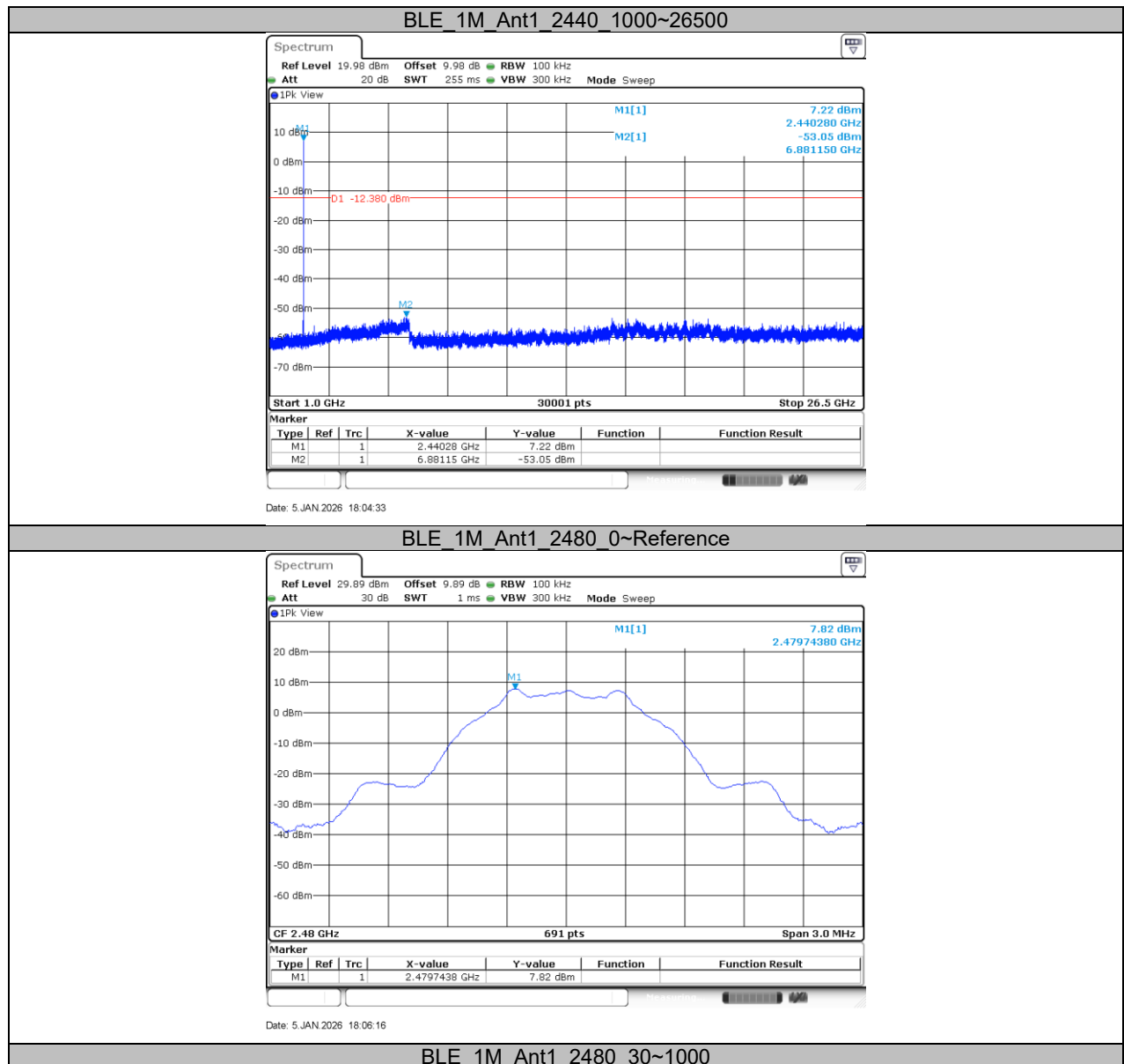


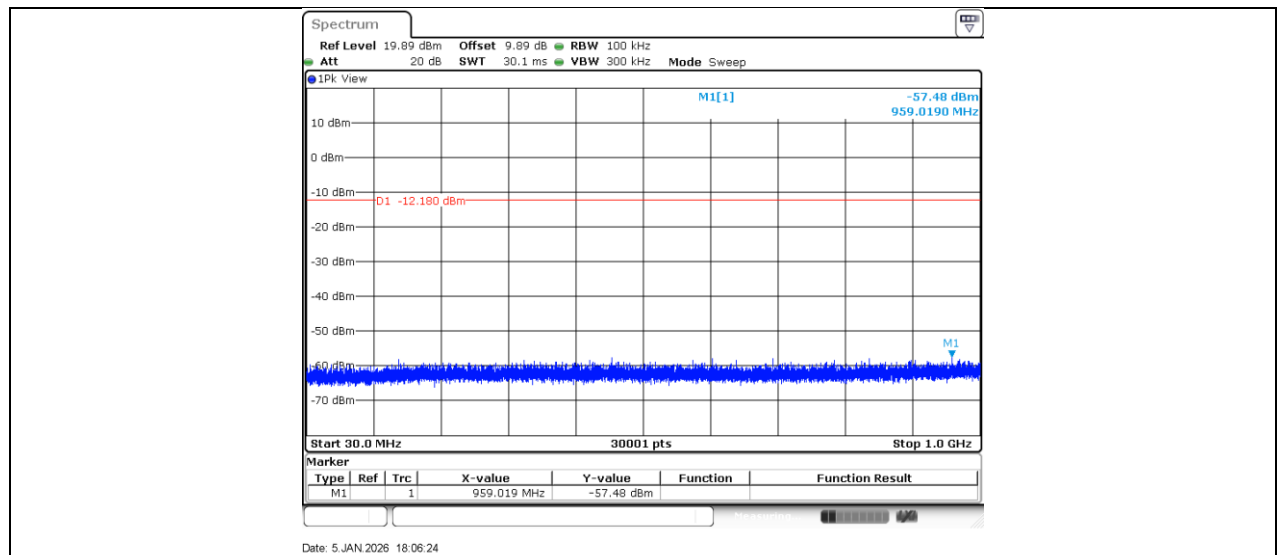
Date: 5 JAN 2026 18:04:02

BLE 1M Ant1 2440_30~1000

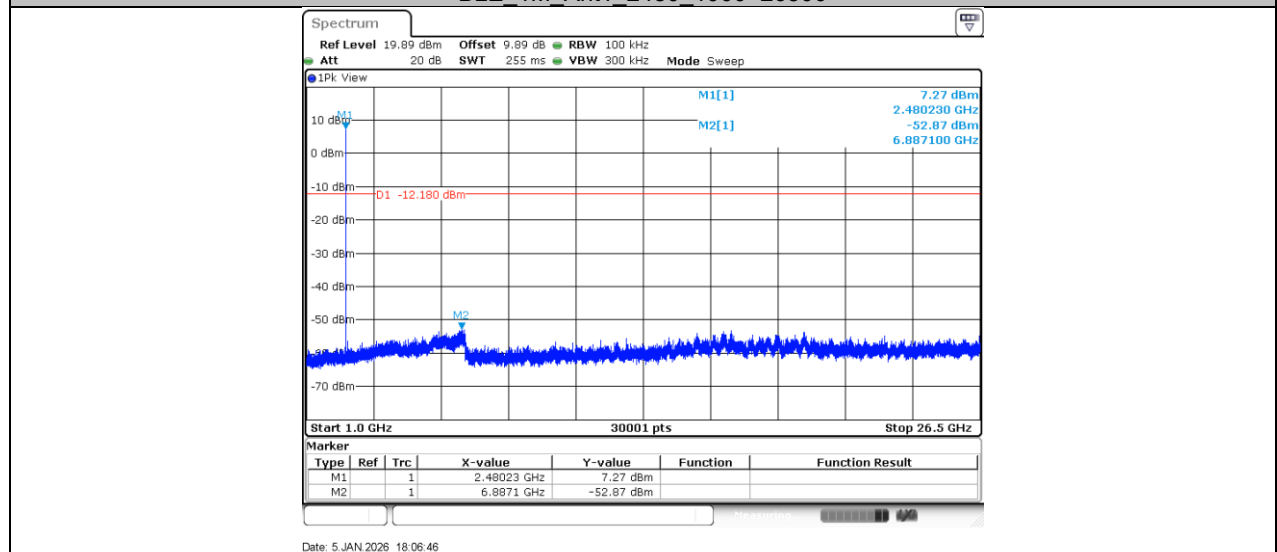


Date: 5 JAN 2026 18:04:11

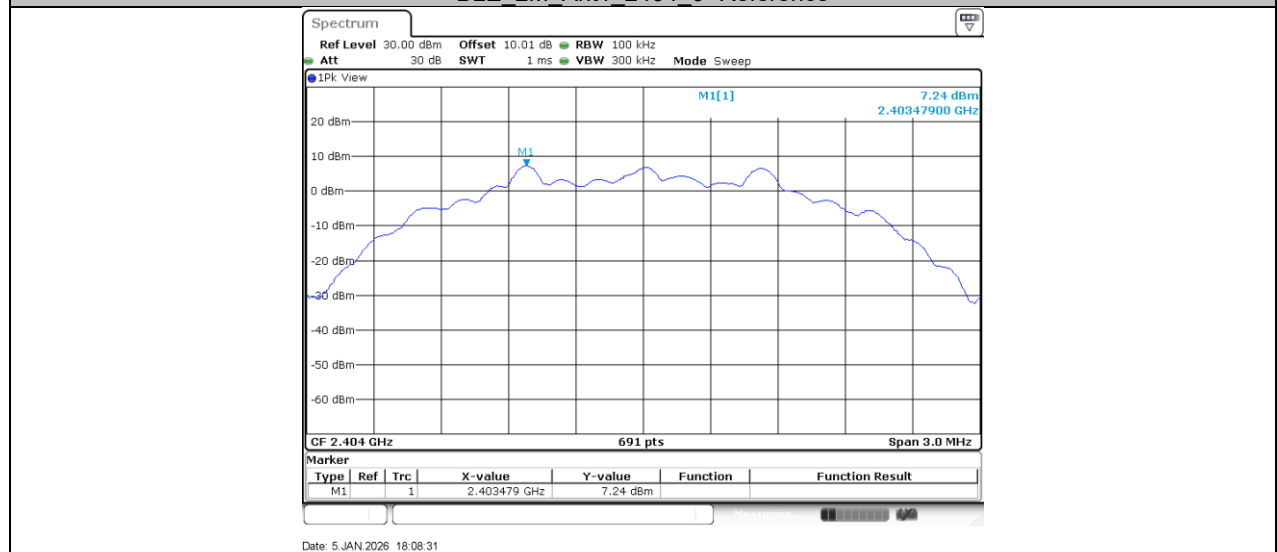


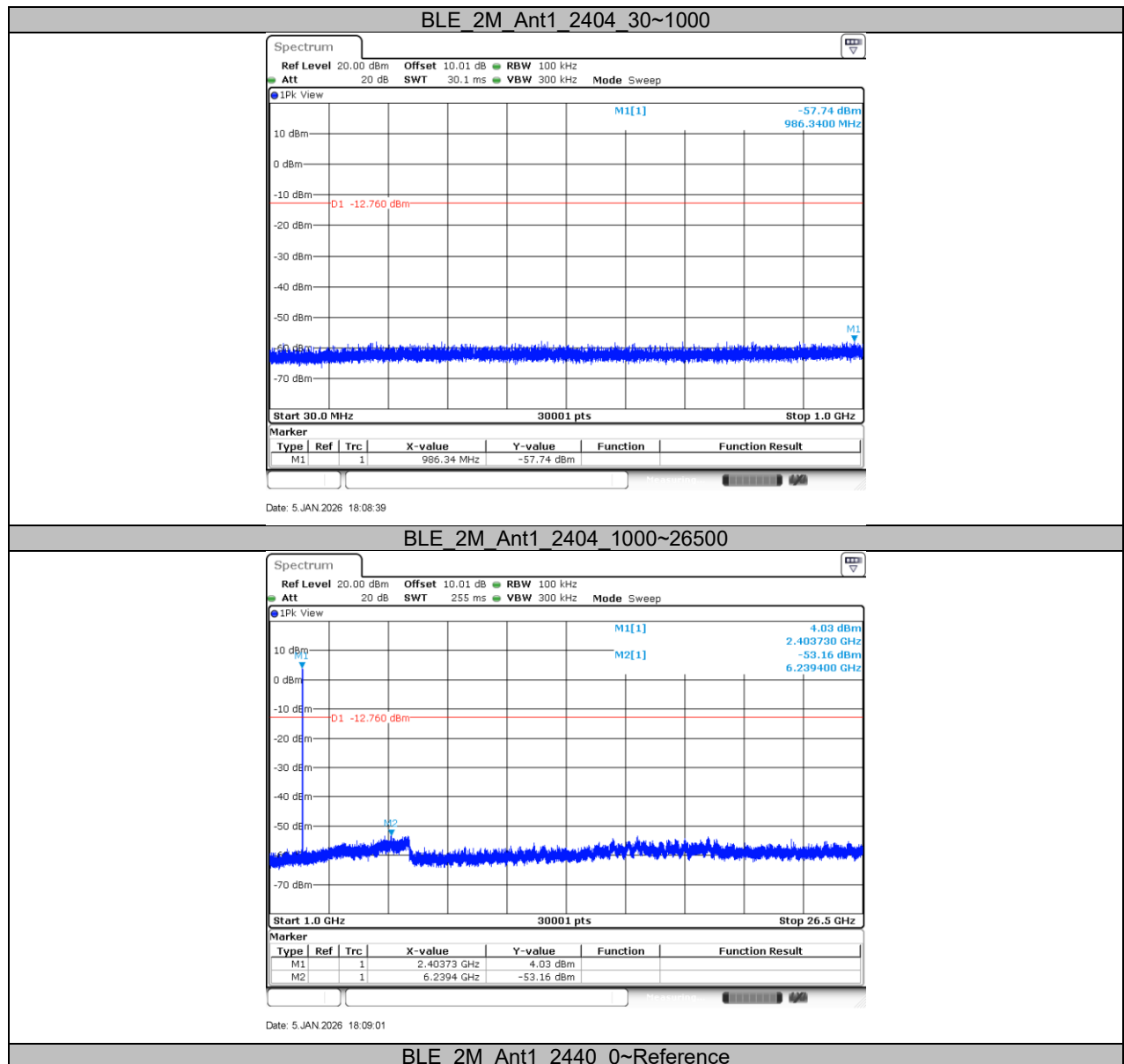


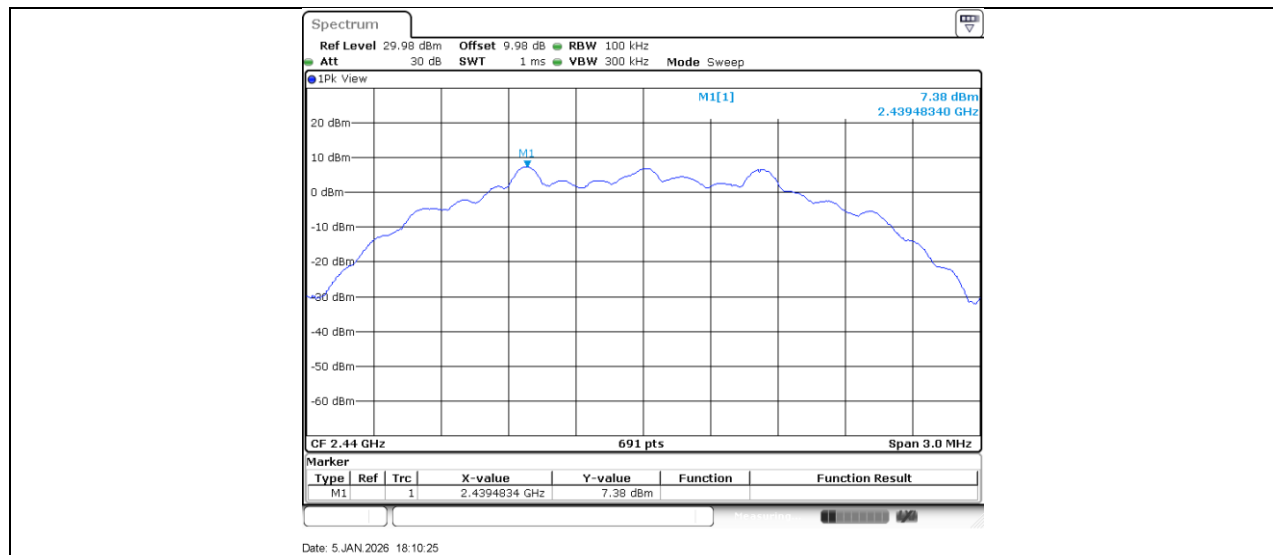
BLE 1M Ant1 2480 1000~26500



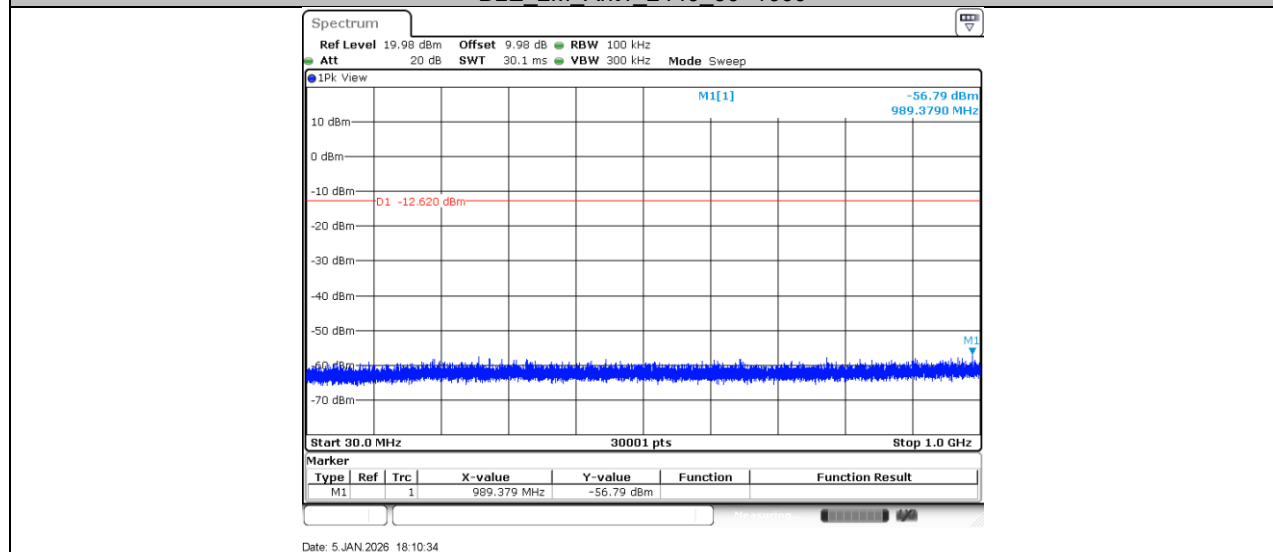
BLE 2M Ant1 2404 0~Reference



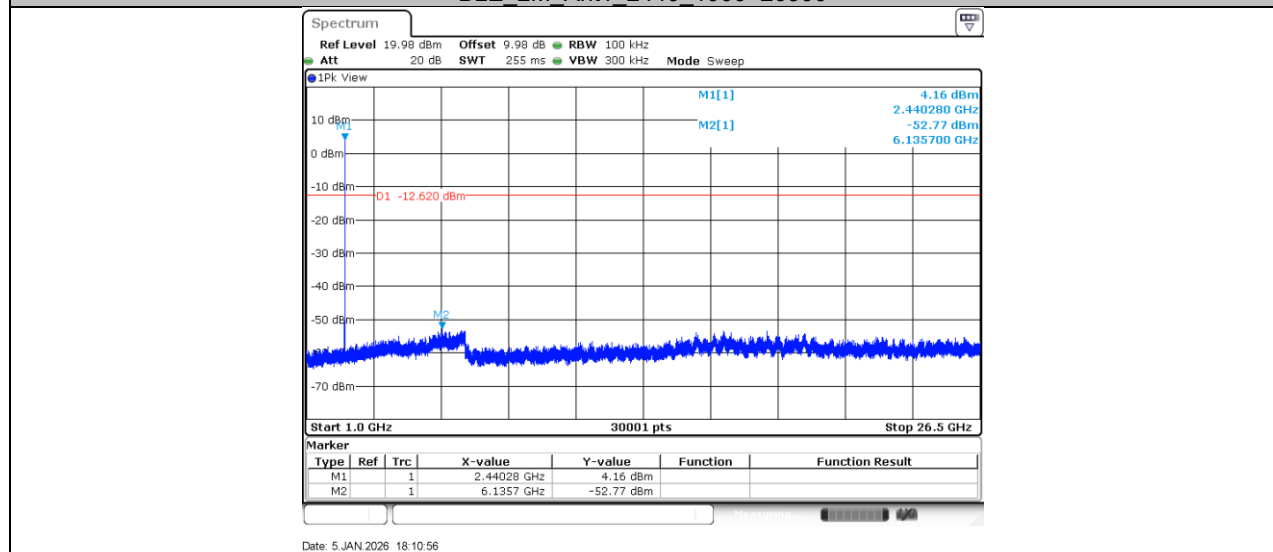


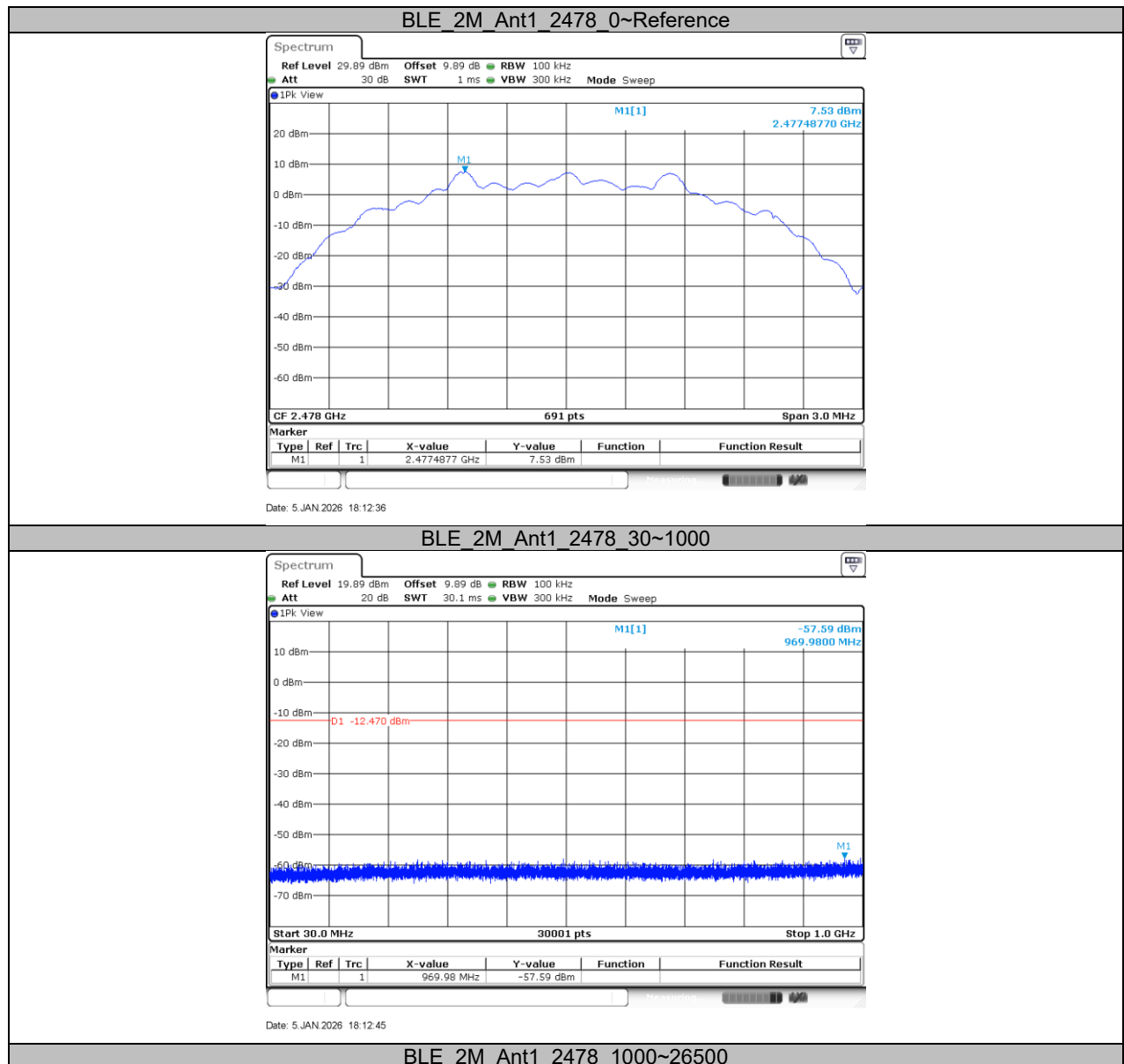


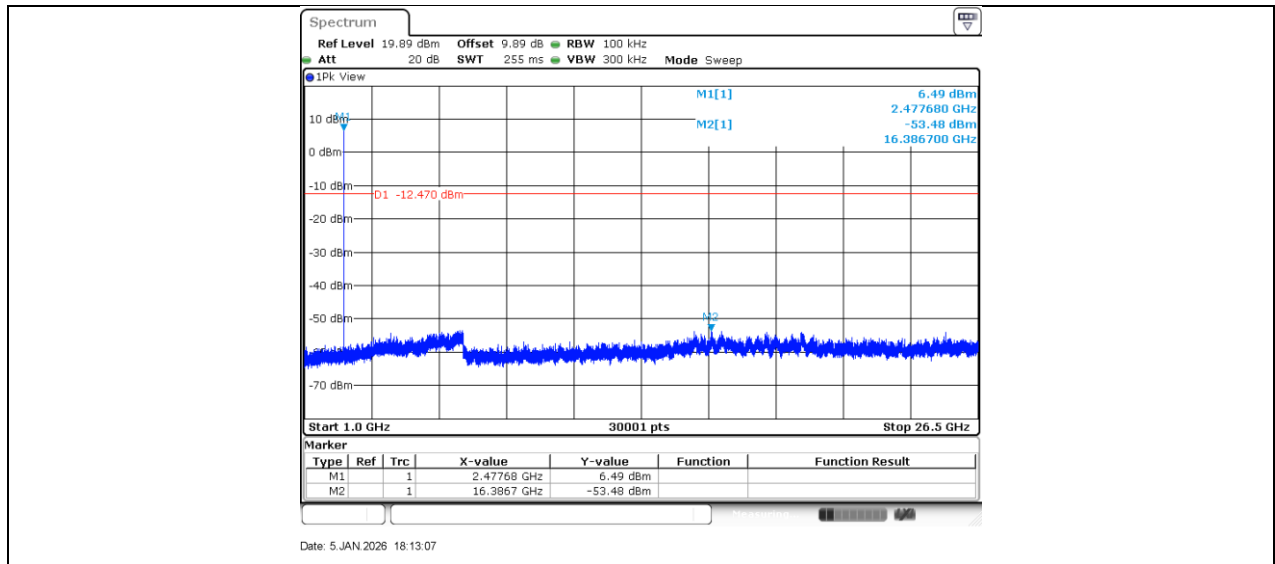
BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500







11.7. APPENDIX G: DUTY CYCLE

11.7.1. Test Result-Ant BT1

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
		2440	0.40	0.63	63.49	1.97
		2480	0.39	0.62	62.90	2.01
BLE_2M	Ant1	2404	1.08	1.88	57.45	2.41
		2440	1.08	1.88	57.45	2.41
		2478	1.08	1.88	57.45	2.41

Note:

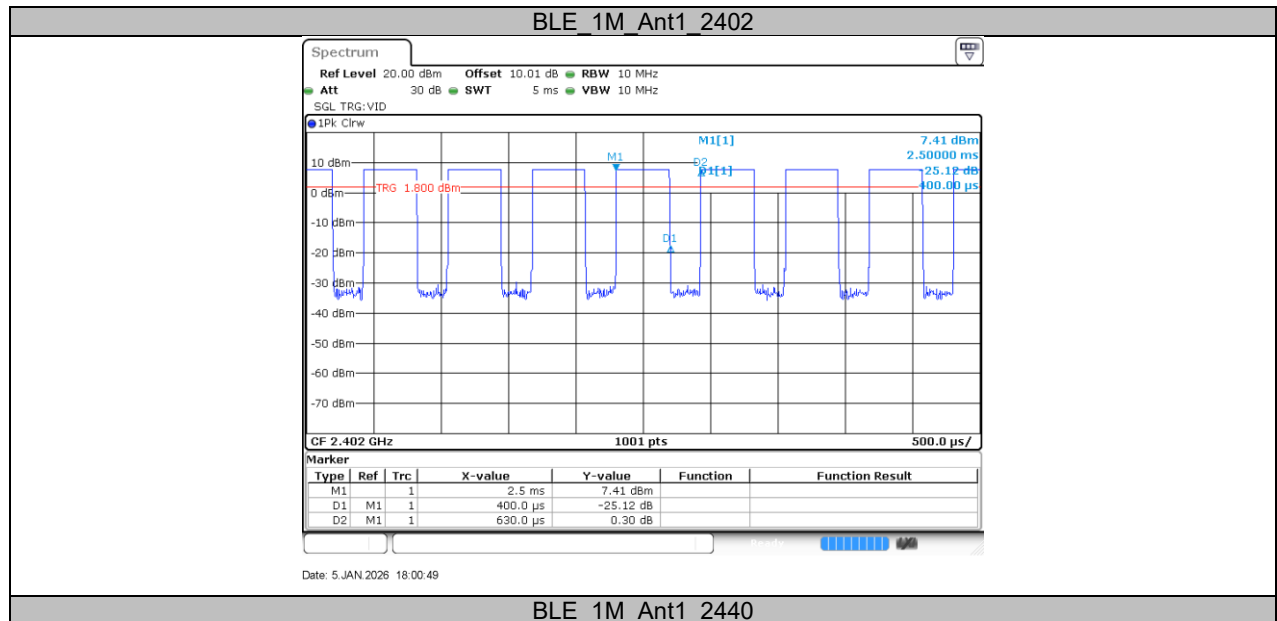
Duty Cycle Correction Factor=10log (1/x).

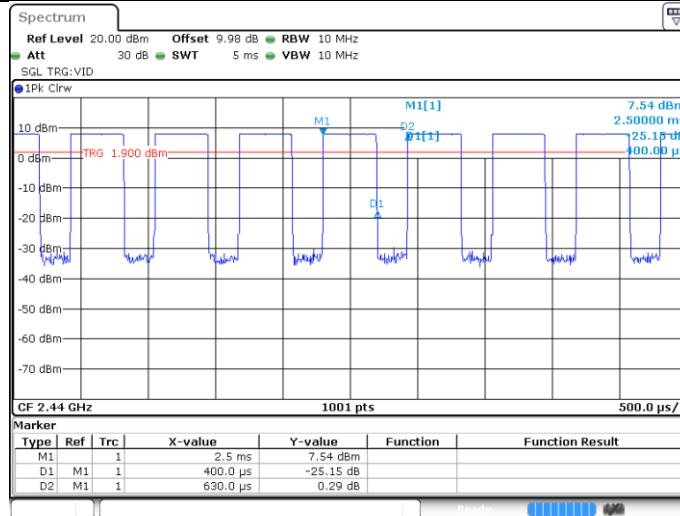
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

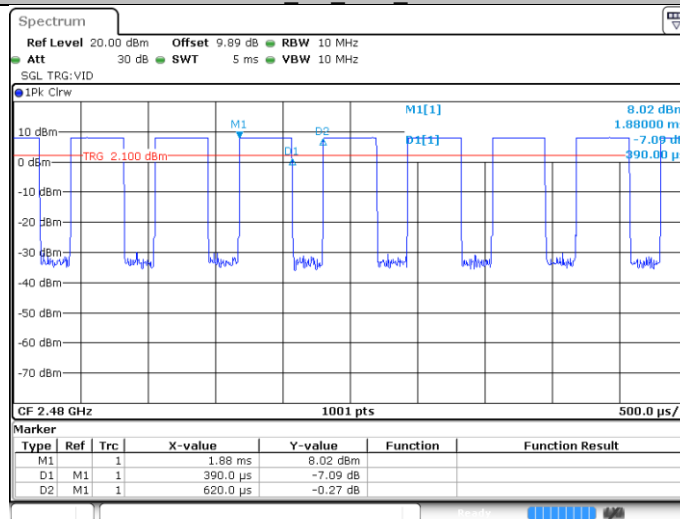
11.7.2. Test Graphs-Ant BT1





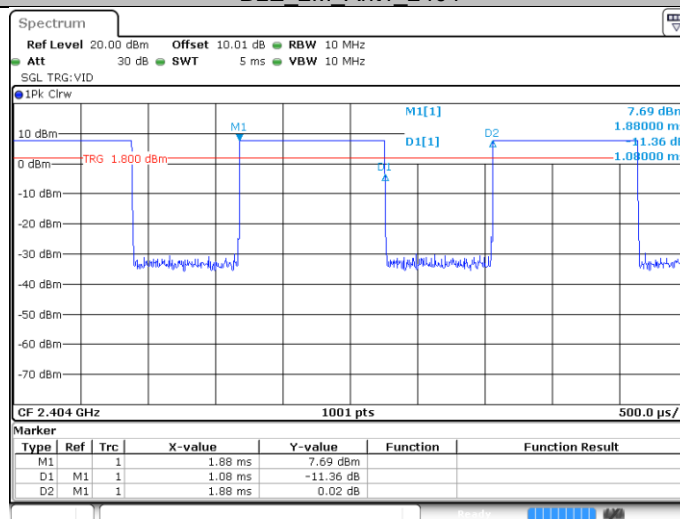
Date: 5 JAN 2026 18:03:00

BLE_1M_Ant1_2480

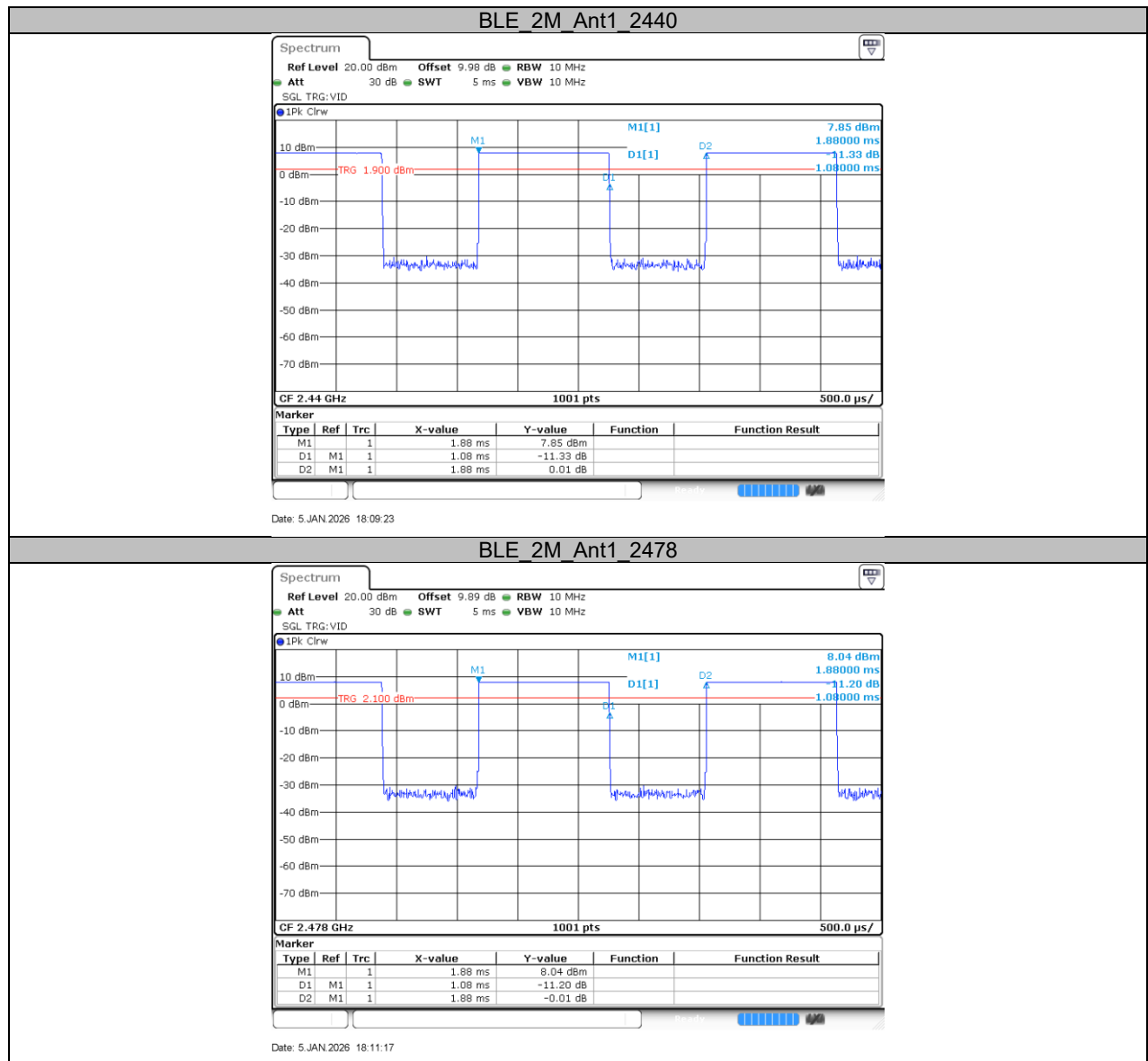


Date: 5 JAN 2026 18:04:58

BLE_2M_Ant1_2404



Date: 5 JAN 2026 18:07:13



END OF REPORT