



FCC RF Test Report

APPLICANT : Quectel Wireless Solutions Co., Ltd.
EQUIPMENT : Wi-Fi & Bluetooth Module
BRAND NAME : QUECTEL
MODEL NAME : FGD966X
FCC ID : XMR2026FGD966X
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Apr. 02, 2026 ~ May 15, 2026

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR631906A	Rev. 01	Initial issue of report	Jun. 11, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report only	-
3.2	15.247(b)(3)	Conducted Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	$\leq 30\text{dBc}$	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 7.87 dB at 2483.52 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.06 dB at 0.42 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.

No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.

No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wi-Fi & Bluetooth Module
Brand Name	QUECTEL
Model Name	FGD966X
FCC ID	XMR2026FGD966X
SN Code	Conducted: E1825LT1G000016 Conduction/Radiation: P1C24FG0N000049
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	Bluetooth LE : 2402 MHz ~ 2480 MHz Thread: 2405 MHz ~ 2480 MHz
Number of Channels	40 for BLE, 16 for Thread
Carrier Frequency of Each Channel	Bluetooth LE : 40 Channel(37 hopping + 3 advertising channel) Thread: 2405 MHz, 2410MHz, ..., 2480MHz
Maximum Output Power to Antenna	BLE 1Mbps: 12.65 dBm (0.0184 W) BLE 2Mbps: 12.63 dBm (0.0183 W) BLE 125Kbps: 12.68 dBm (0.0185 W) BLE 500Kbps: 12.62 dBm (0.0183 W) Thread: 12.10 dBm (0.0162 W)
99% Occupied Bandwidth	BLE 2Mbps: 2.046MHz BLE 125Kbps: 1.061MHz Thread: 2.368MHz
Antenna Type / Gain	Dipole Antenna with gain 0.2 dBi
Type of Modulation	Bluetooth LE : GFSK Thread: O-QPSK

Remark:

- For BLE 1Mbps & 125Kbps & 500Kbps & 2Mbps mode, the whole testing has assessed BLE 125kbps & 2Mbps mode by referring to the higher conducted power.
- The device supports IEEE 802.15.4 include Zigbee/Thread, the characteristic is the same. Thus, we evaluate full tests for Thread mode.



1.5 Modification of EUT

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

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ CO02-SZ 03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2020+Cor.1-2023

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

BLE:

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

Thread:

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	11	2405	19	2445
	12	2410	20	2450
	13	2415	21	2455
	14	2420	22	2460
	15	2425	23	2465
	16	2430	24	2470
	17	2435	25	2475
	18	2440	26	2480

2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

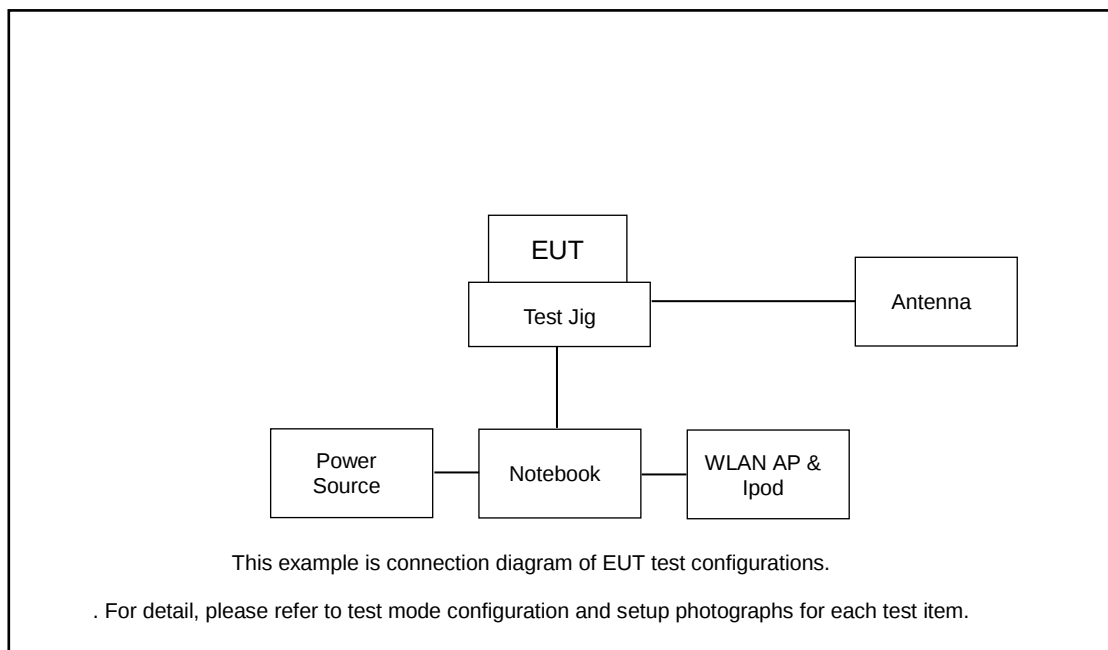
The following summary table is showing all test modes to demonstrate in compliance with the standard.

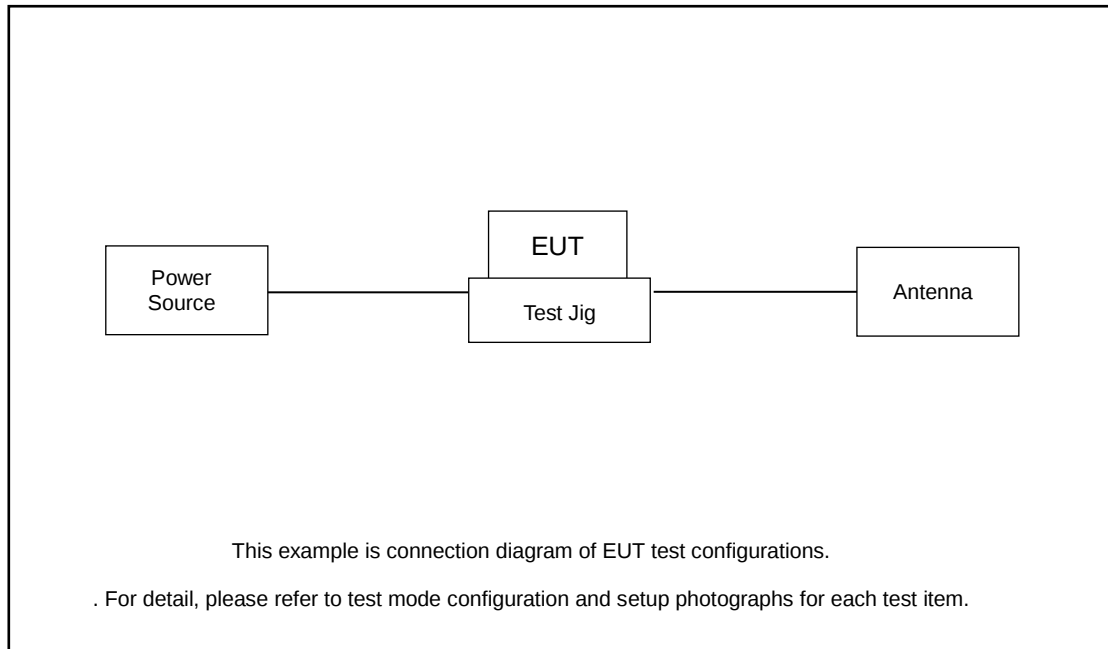
Summary table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth – LE / GFSK; Thread / O-QPSK
Conducted TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 125Kbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 125Kbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 125Kbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_BLE 2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz_BLE 2Mbps
	Mode 7: Bluetooth Tx CH00_2402 MHz_BLE 500Kbps
	Mode 8: Bluetooth Tx CH19_2440 MHz_BLE 500Kbps
	Mode 9: Bluetooth Tx CH39_2480 MHz_BLE 500Kbps
	Mode 10: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps
	Mode 11: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps
	Mode 12: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps
	Mode 13: Thread Tx CH11_2405 MHz_250Kbps
	Mode 14: Thread Tx CH18_2440 MHz_250Kbps
	Mode 15: Thread Tx CH25_2475 MHz_250Kbps
	Mode 16: Thread Tx CH26_2480 MHz_250Kbps
Radiated TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 125Kbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 125Kbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 125Kbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_BLE 2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz_BLE 2Mbps
	Mode 7: Thread Tx CH11_2405 MHz_250Kbps
	Mode 8: Thread Tx CH18_2440 MHz_250Kbps

	Mode 9: Thread Tx CH25_2475 MHz_250Kbps Mode 10: Thread Tx CH26_2480 MHz_250Kbps
AC Conducted Emission	Mode 1: BT TX + Charging from Test Jig Mode 2: Thread TX + Charging from Test Jig
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	

2.3 Connection Diagram of Test System

Conducted Emission:



Radiated Emission:


2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Test Jig	N/A	N/A	N/A	N/A	N/A
2.	iPod	N/A	N/A	N/A	N/A	N/A
3.	WLAN AP	D-LINK	DIR-612B	N/A	N/A	Unshielded,1.8m
4.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded,1.8m
5.	Antenna	N/A	N/A	N/A	N/A	N/A
6.	Adapter	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For BLE/Thread function, the engineering test program was provided and enabled to make EUT continuous transmit.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.10 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 1.10 + 10 = 11.10 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

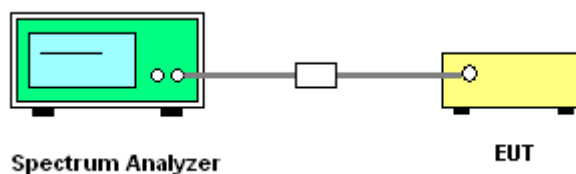
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8.1 for 6dB BW and 6.9.3 for 99% occupied bandwidth measurements
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. Detector = Peak. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



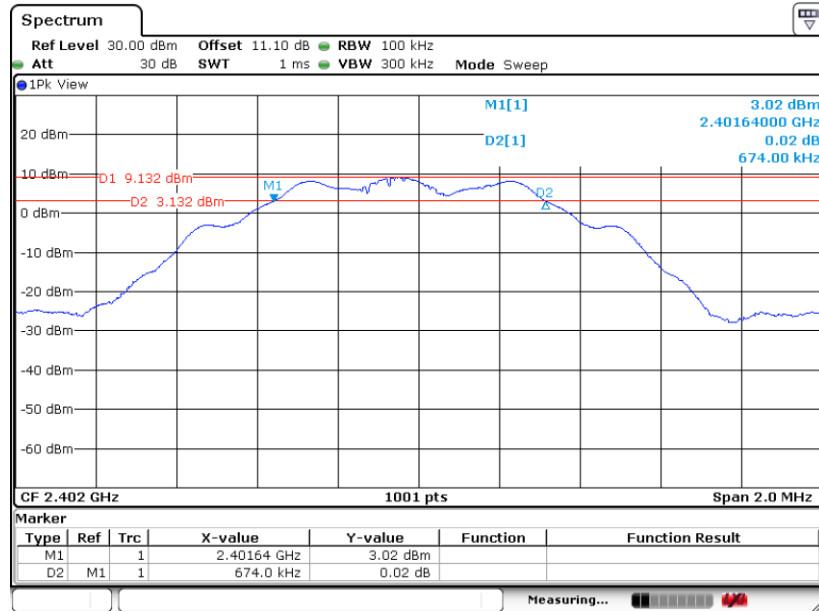


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

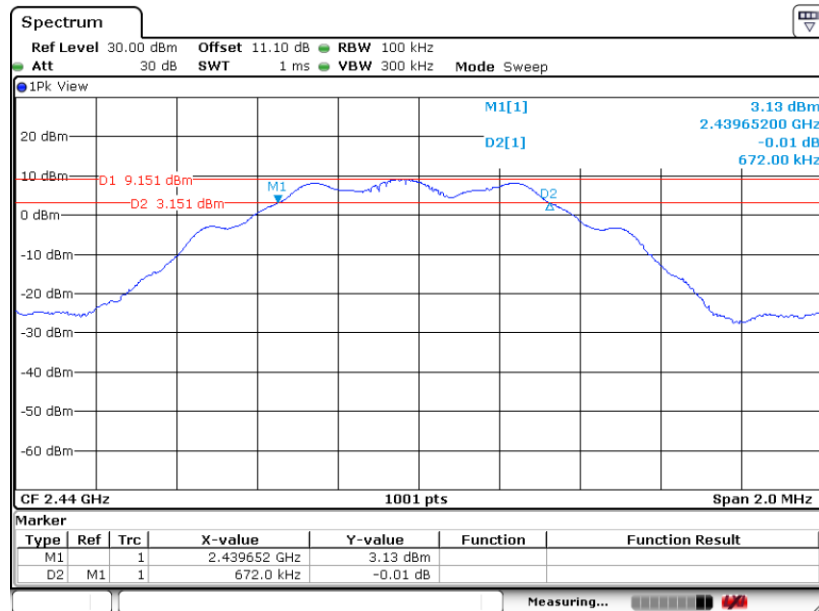
BLE 125Kbps:

6 dB Bandwidth Plot on Channel 00



Date: 2.APR.2026 15:46:01

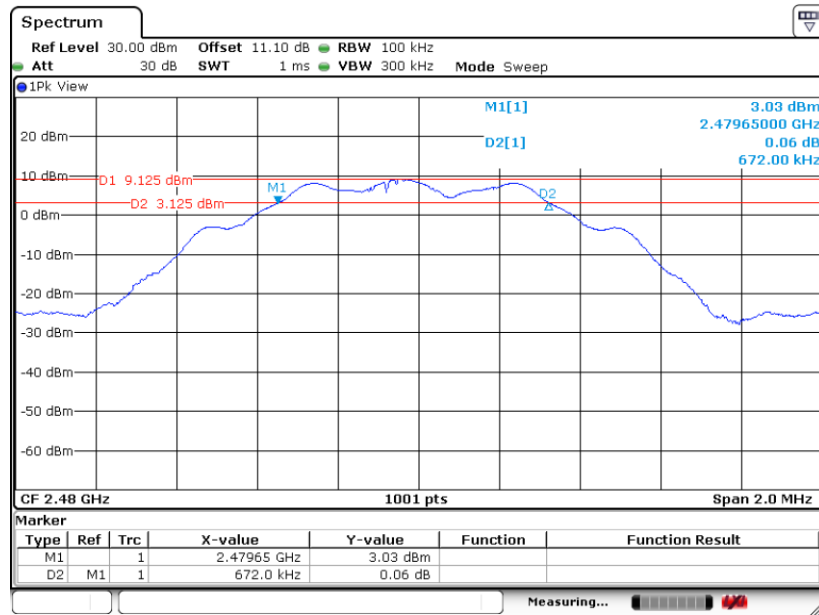
6 dB Bandwidth Plot on Channel 19



Date: 2.APR.2026 15:48:33



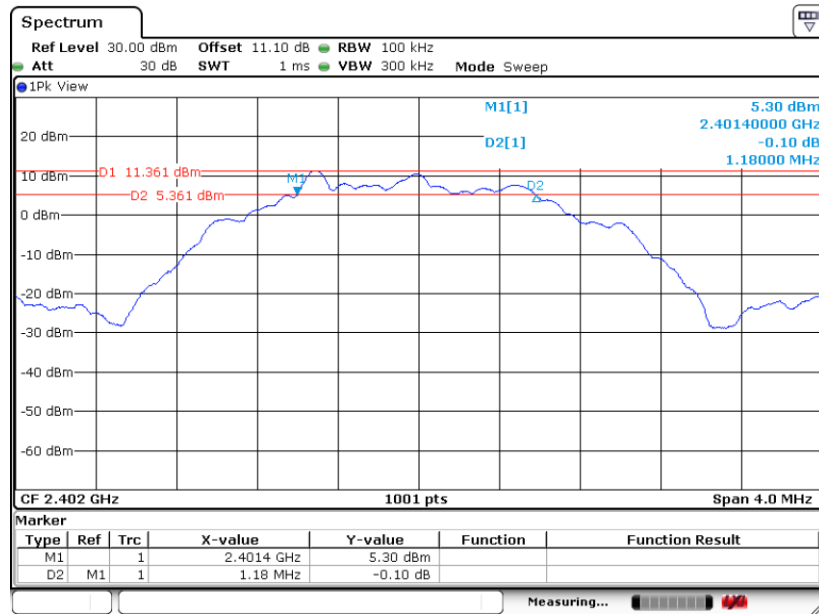
6 dB Bandwidth Plot on Channel 39



Date: 2.APR.2026 15:50:51

BLE 2Mbps:

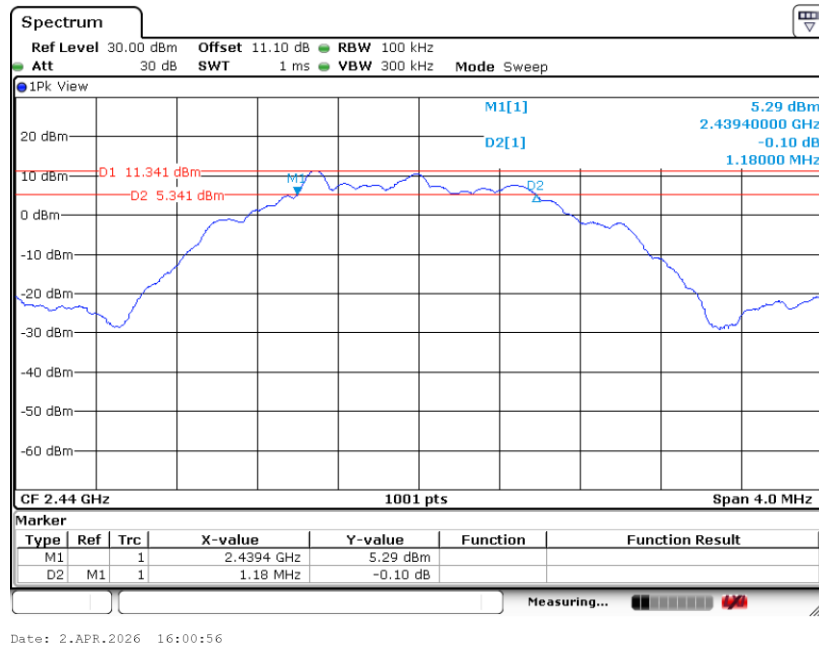
6 dB Bandwidth Plot on Channel 00



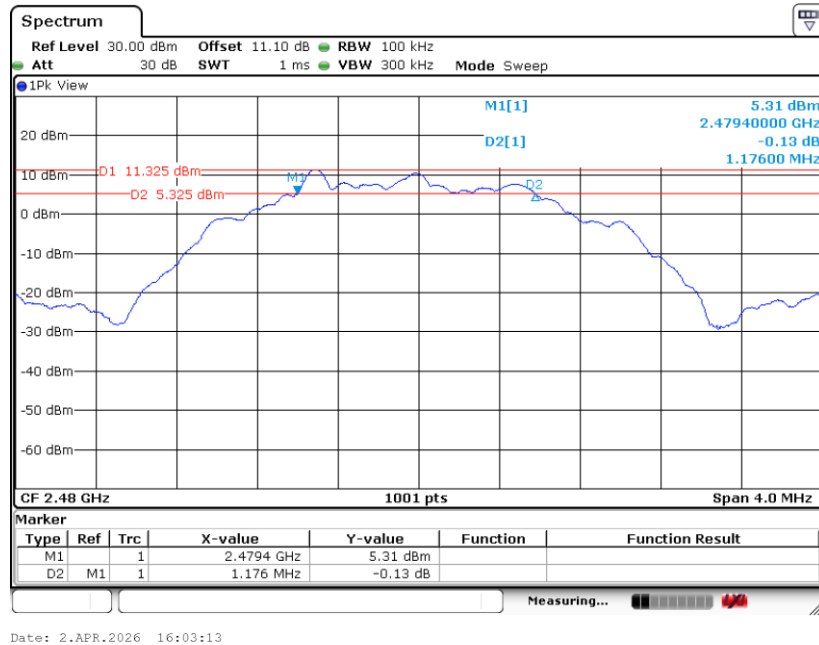
Date: 2.APR.2026 15:56:25



6 dB Bandwidth Plot on Channel 19



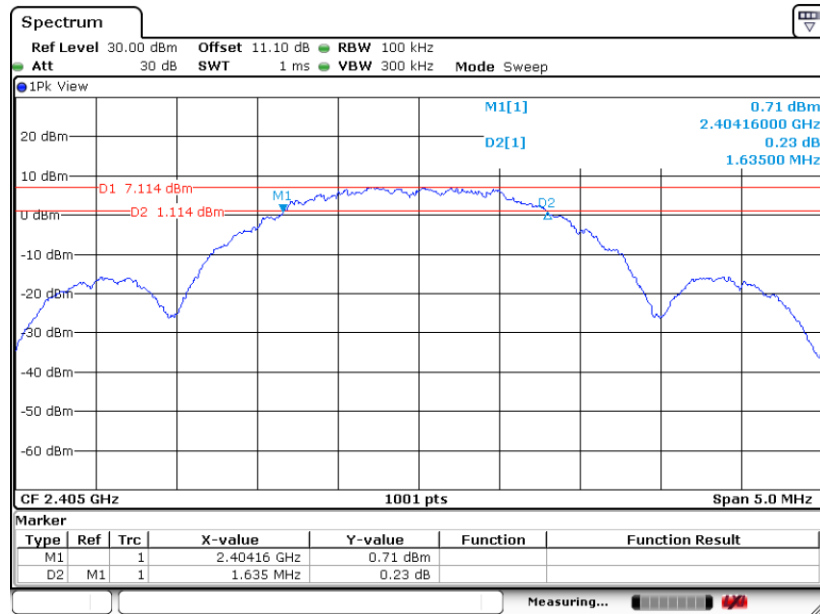
6 dB Bandwidth Plot on Channel 39





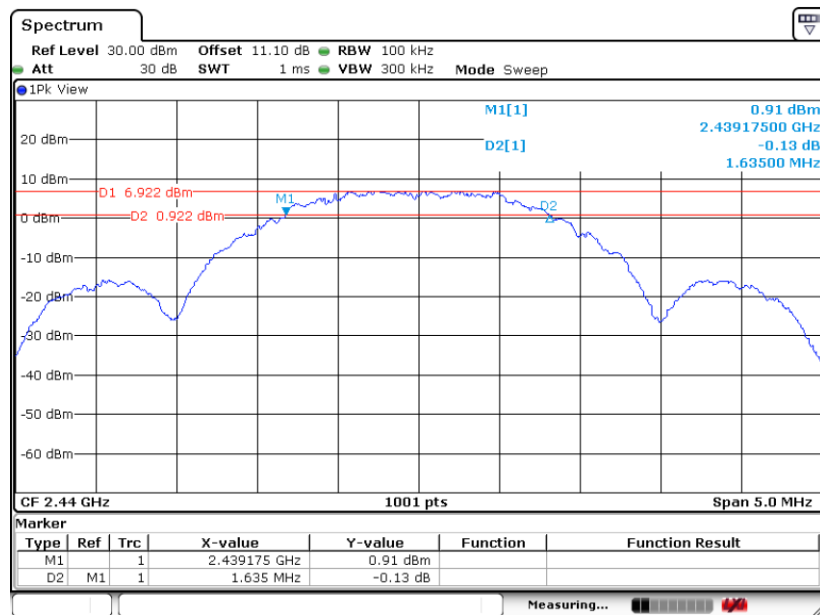
Thread:

6 dB Bandwidth Plot on Channel 11



Date: 9.APR.2026 09:27:40

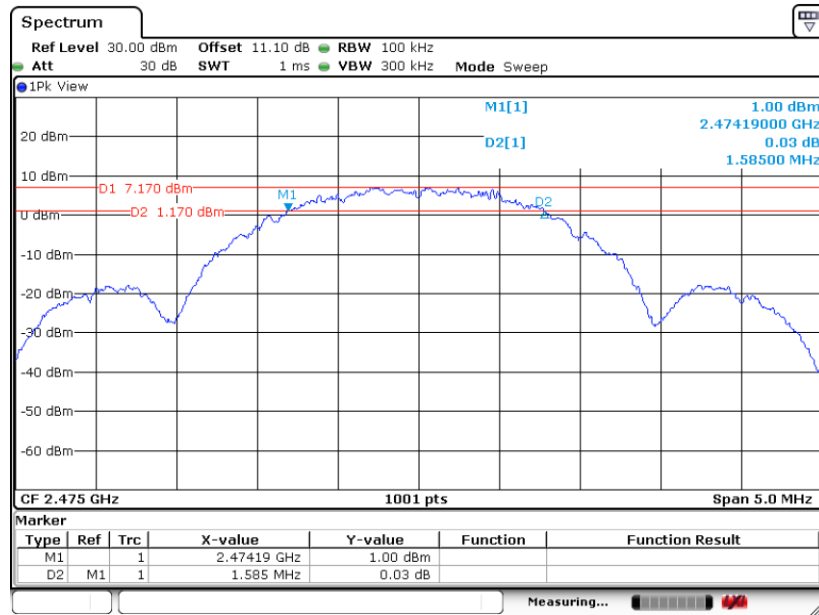
6 dB Bandwidth Plot on Channel 18



Date: 9.APR.2026 09:31:24

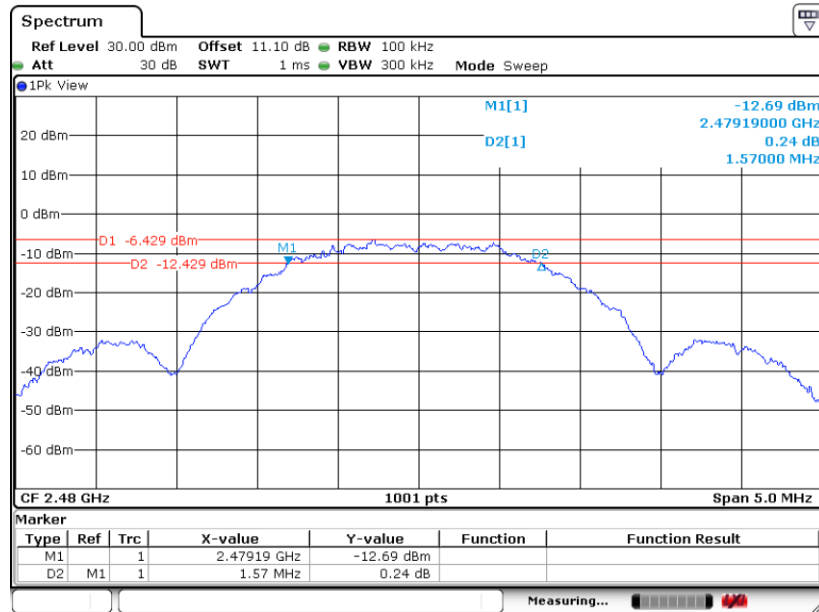


6 dB Bandwidth Plot on Channel 25



Date: 13.APR.2026 09:52:49

6 dB Bandwidth Plot on Channel 26



Date: 13.APR.2026 10:03:02

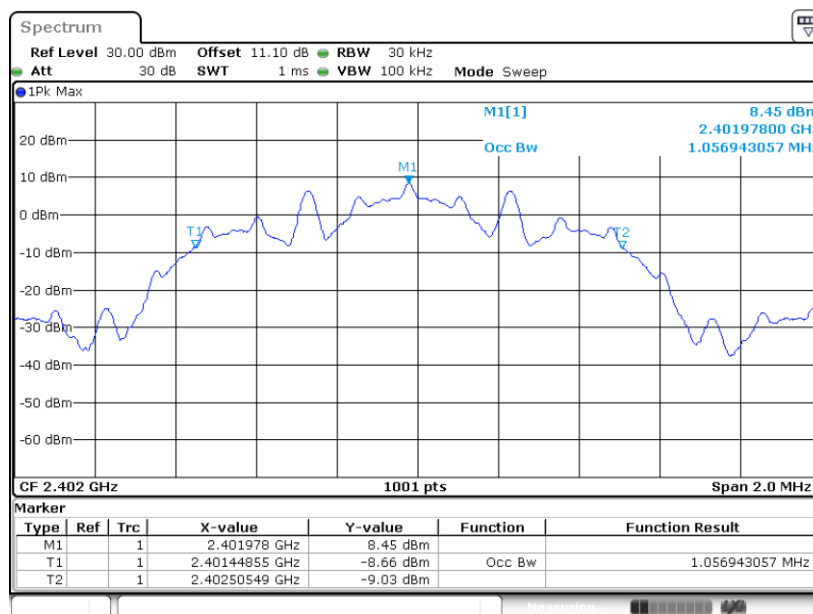


3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

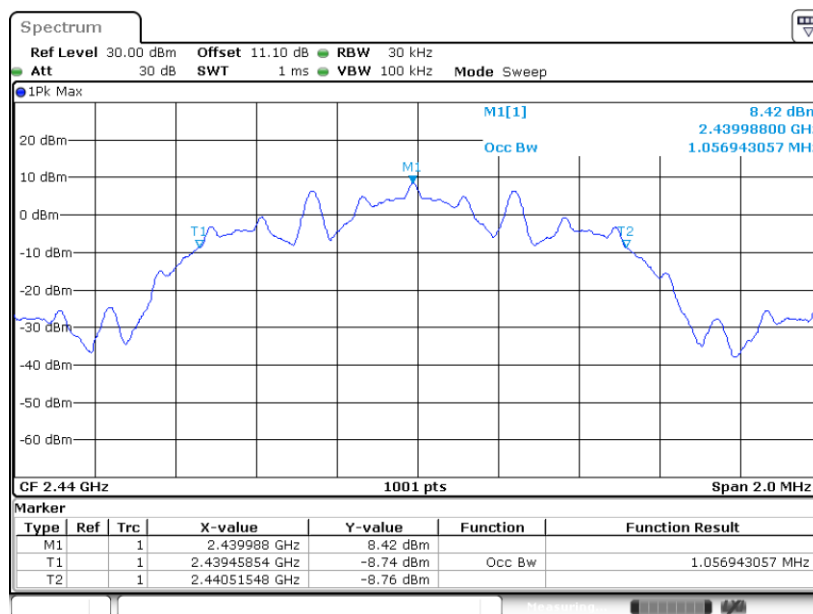
BLE 125Kbps:

99% Occupied Bandwidth Plot on Channel 00



Date: 2.APR.2026 15:45:50

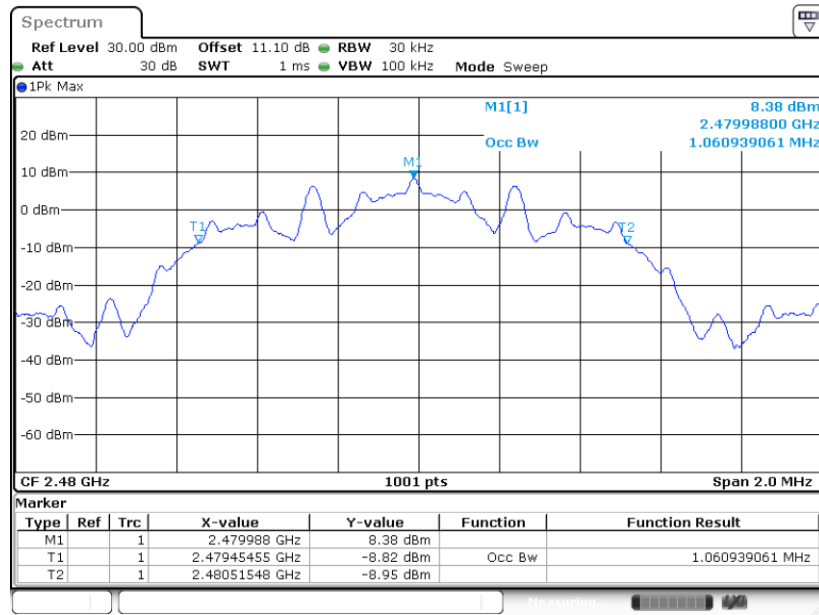
99% Occupied Bandwidth Plot on Channel 19



Date: 2.APR.2026 15:48:12

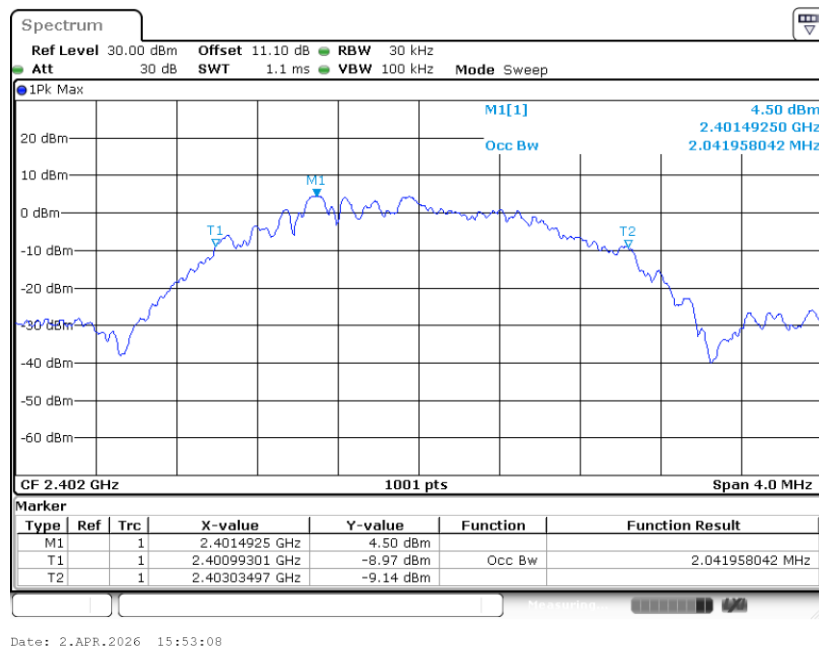


99% Occupied Bandwidth Plot on Channel 39



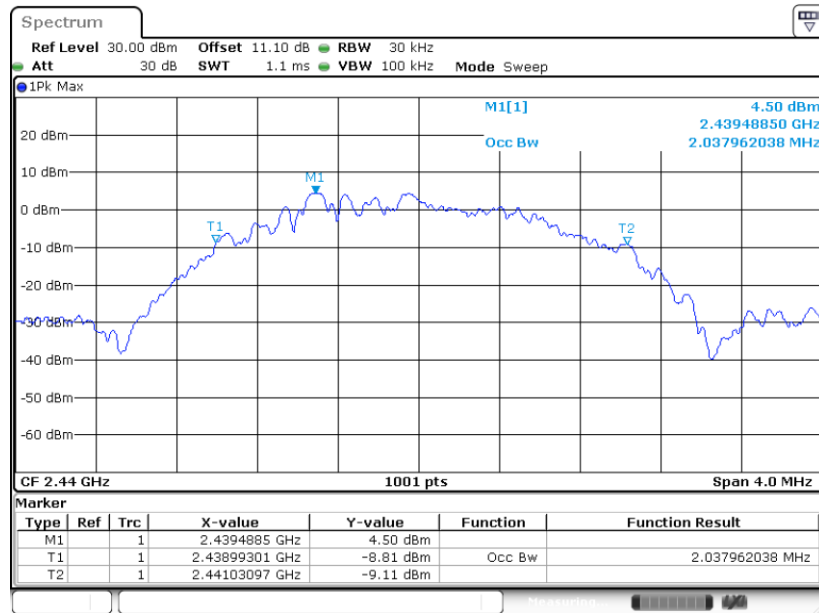
BLE 2Mbps:

99% Occupied Bandwidth Plot on Channel 00

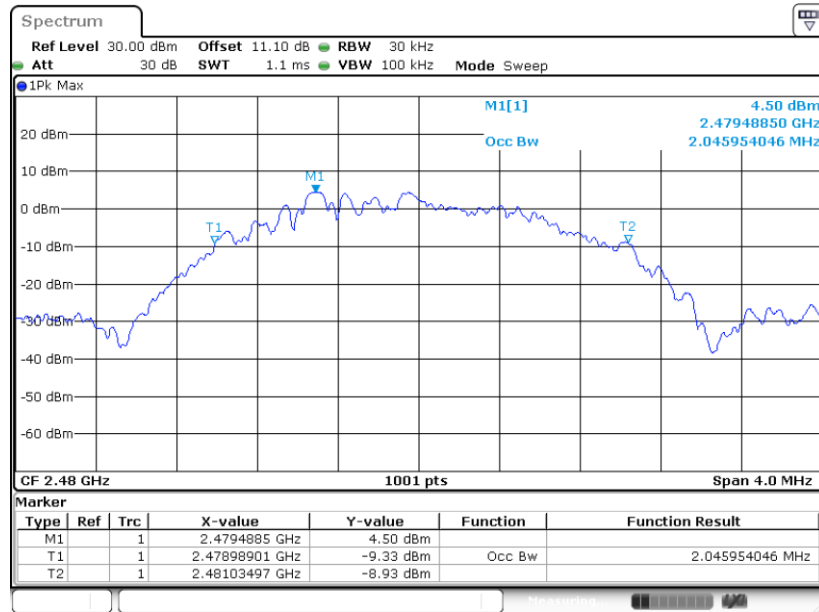




99% Occupied Bandwidth Plot on Channel 19



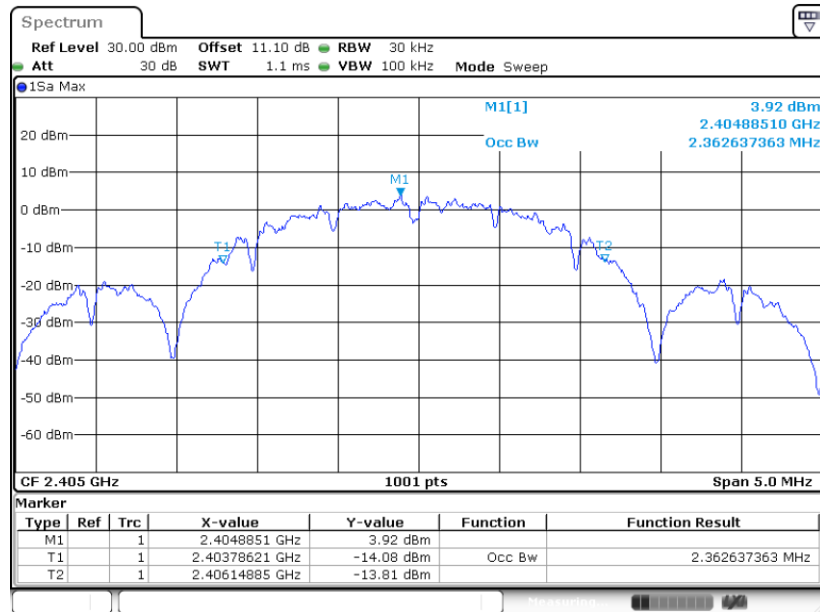
99% Occupied Bandwidth Plot on Channel 39



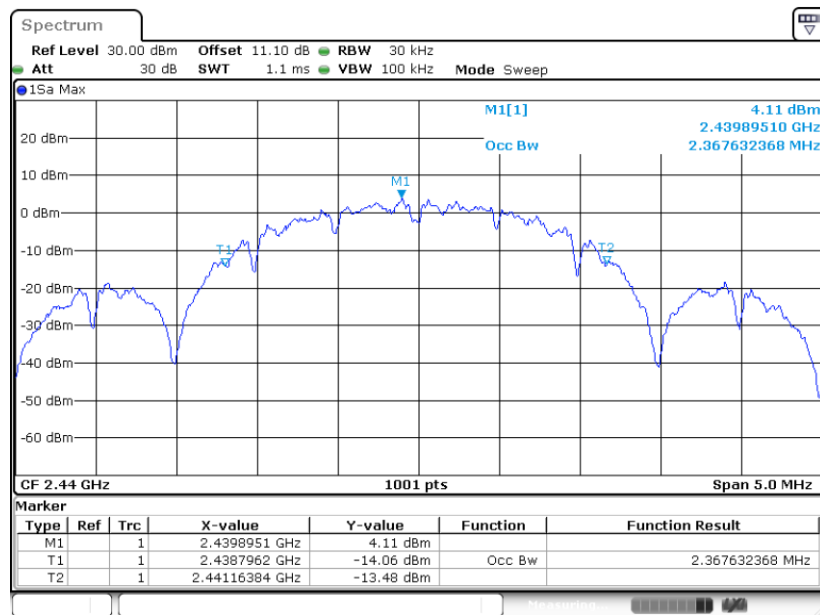


Thread:

99% Occupied Bandwidth Plot on Channel 11

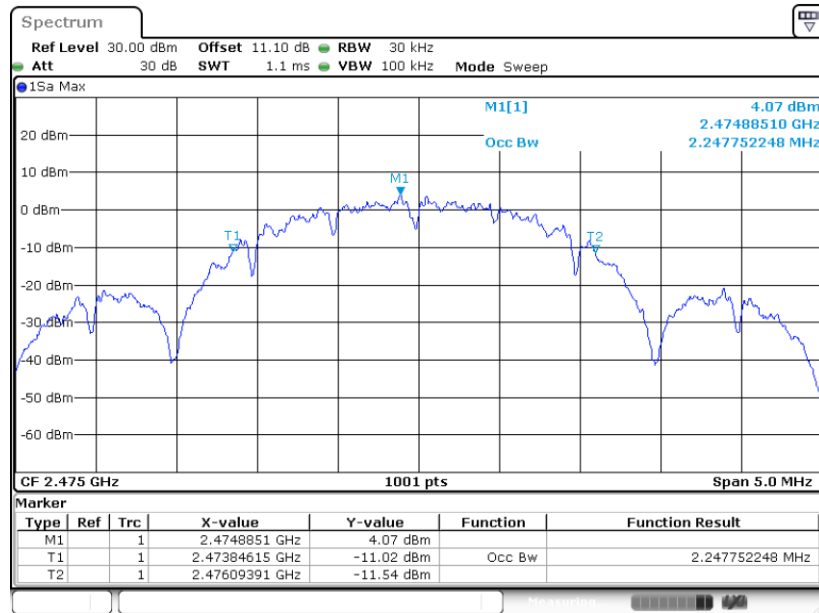


99% Occupied Bandwidth Plot on Channel 18



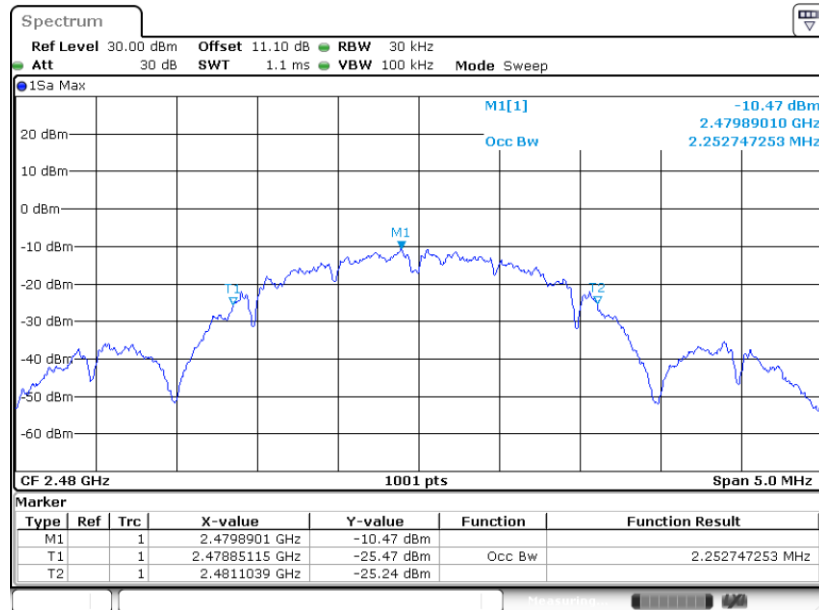


99% Occupied Bandwidth Plot on Channel 25



Date: 13.APR.2026 09:52:28

99% Occupied Bandwidth Plot on Channel 26



Date: 13.APR.2026 10:02:50

Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

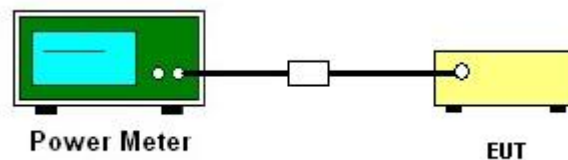
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

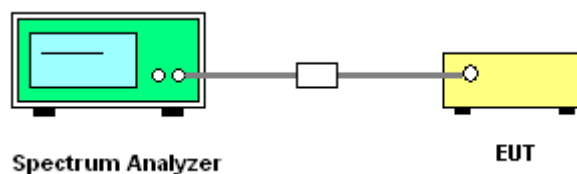
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2020 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

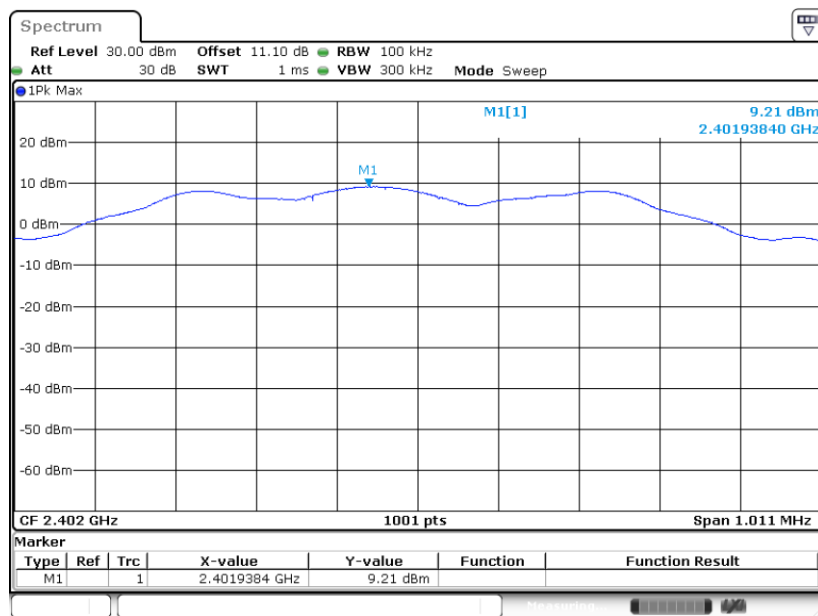
Please refer to Appendix A.



3.3.6 Test Result of Power Spectral Density Plots (100kHz)

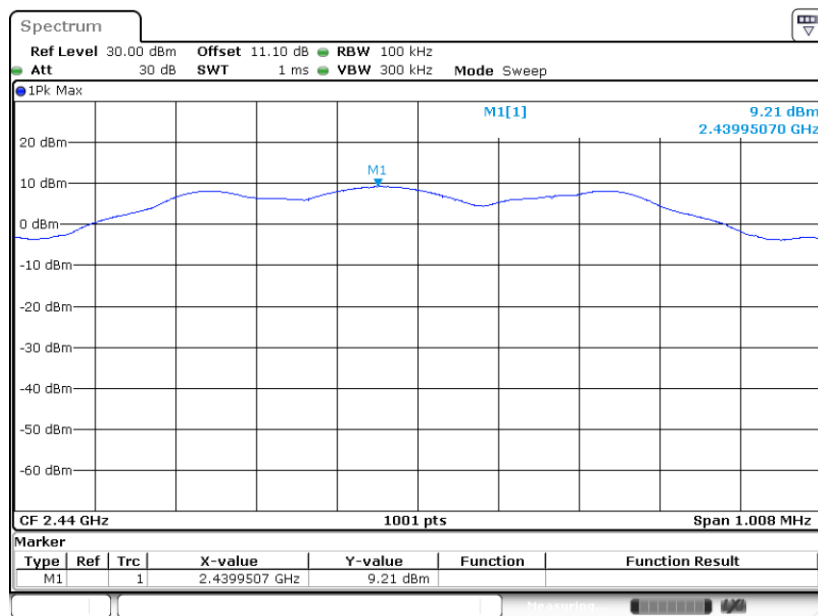
BLE 125Kbps:

PSD 100kHz Plot on Channel 00



Date: 2.APR.2026 15:46:28

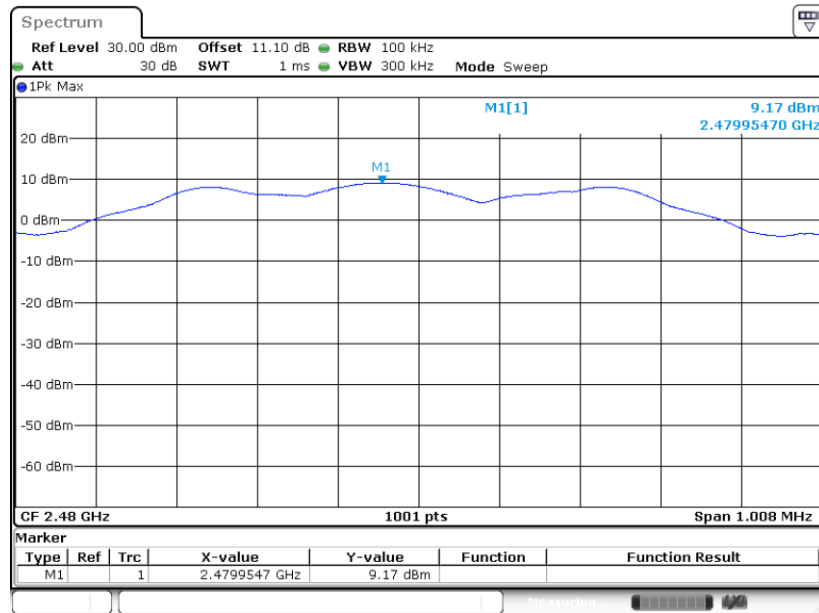
PSD 100kHz Plot on Channel 19



Date: 2.APR.2026 15:49:09



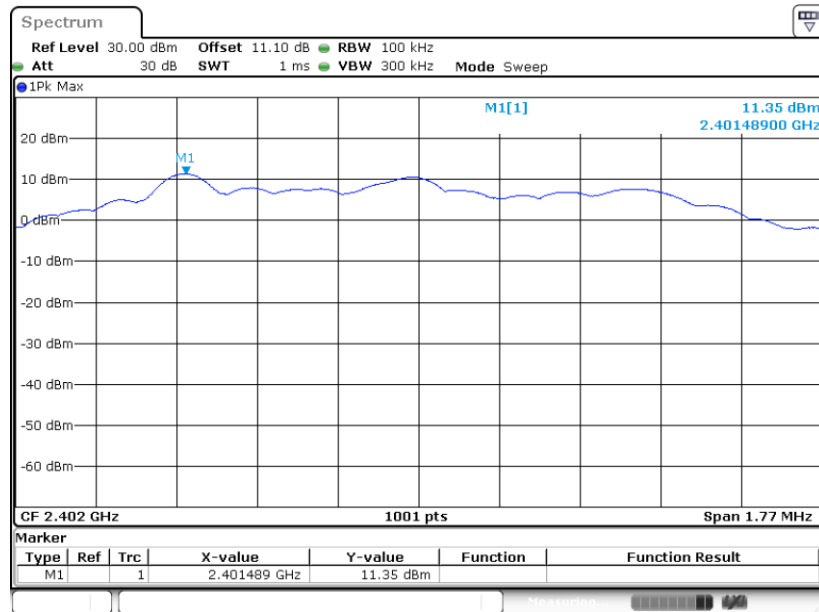
PSD 100kHz Plot on Channel 39



Date: 2.APR.2026 15:51:22

BLE 2Mbps:

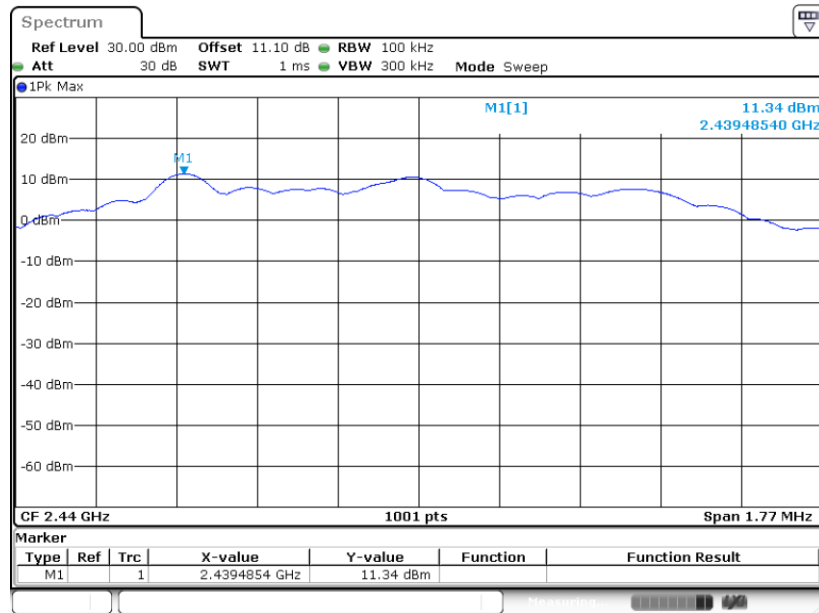
PSD 100kHz Plot on Channel 00



Date: 2.APR.2026 15:56:52

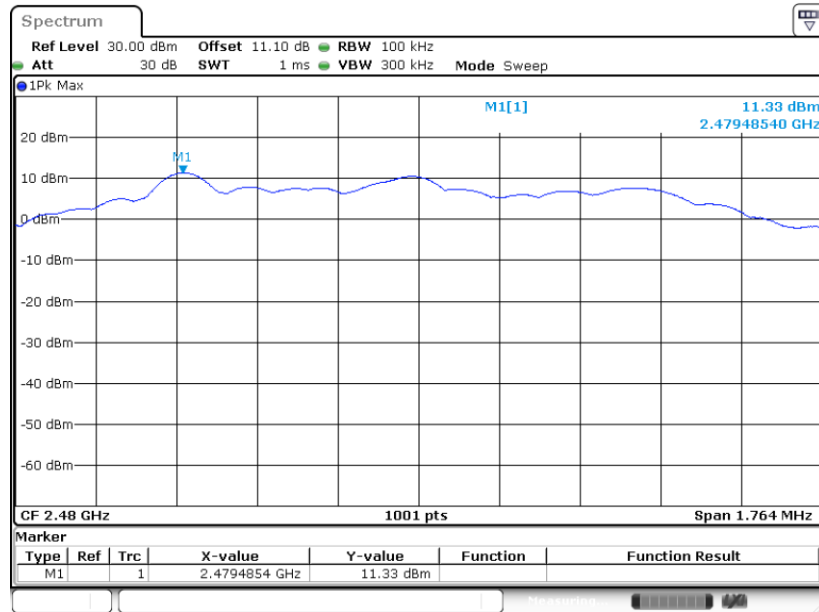


PSD 100kHz Plot on Channel 19



Date: 2.APR.2026 16:01:29

PSD 100kHz Plot on Channel 39

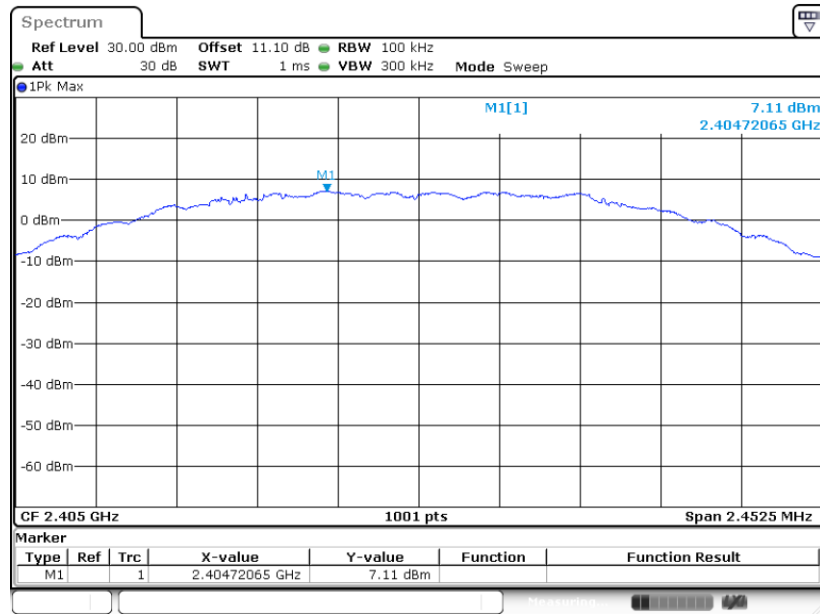


Date: 2.APR.2026 16:03:46



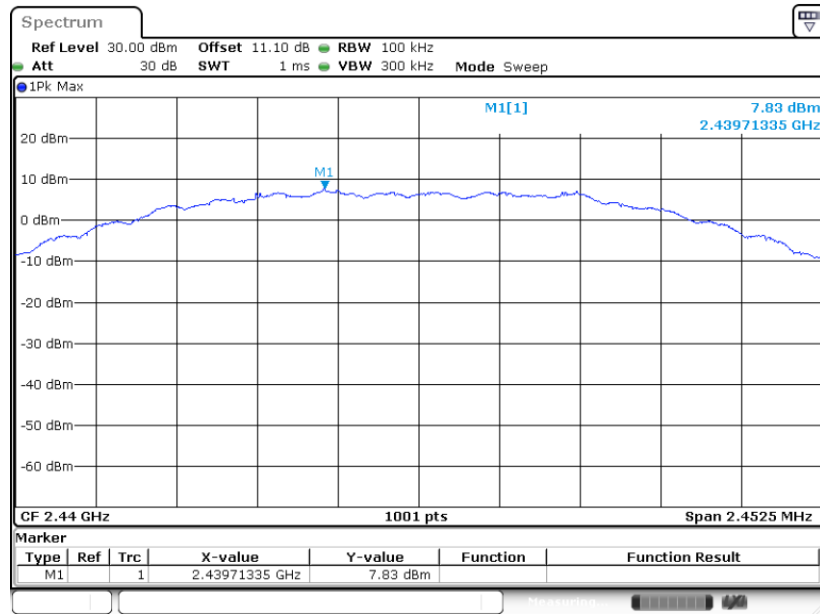
Thread:

PSD 100kHz Plot on Channel 11



Date: 9.APR.2026 09:28:07

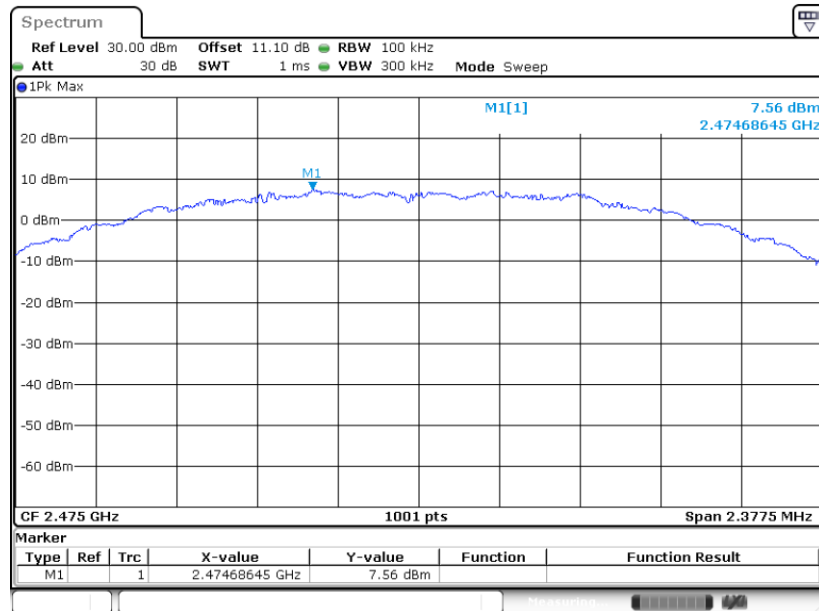
PSD 100kHz Plot on Channel 18



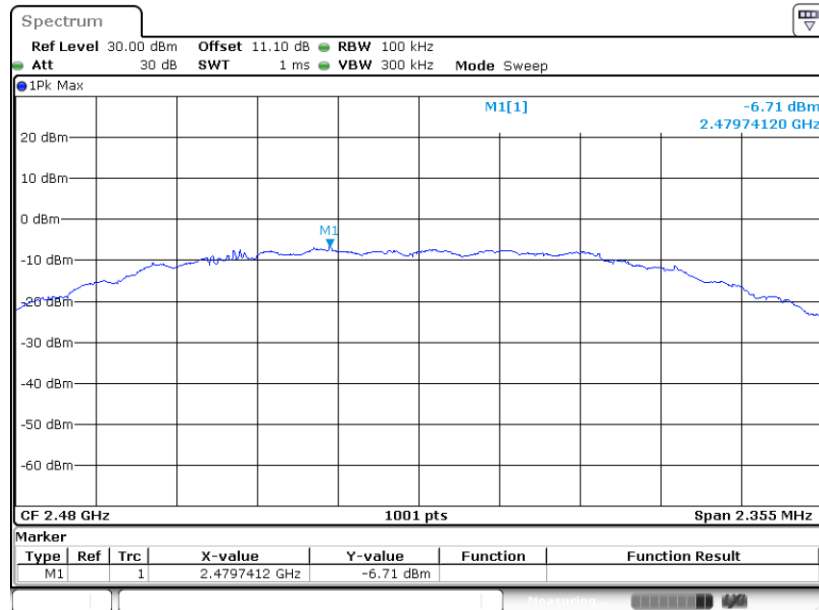
Date: 9.APR.2026 09:31:49



PSD 100kHz Plot on Channel 25



PSD 100kHz Plot on Channel 26

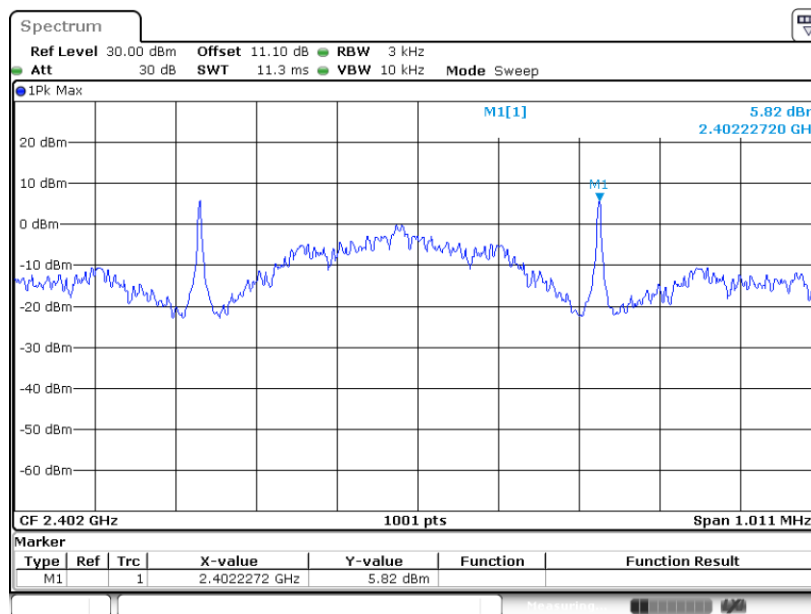




3.3.7 Test Result of Power Spectral Density Plots (3kHz)

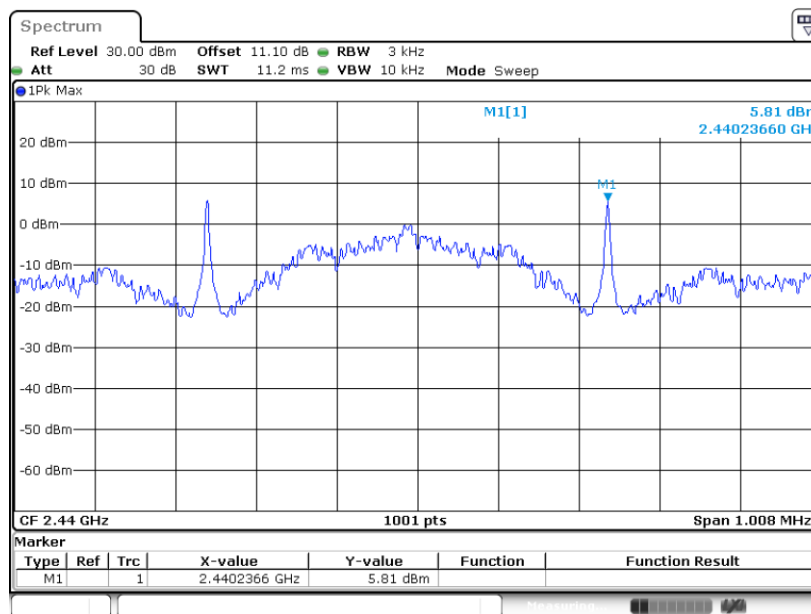
BLE 125Kbps:

PSD 3kHz Plot on Channel 00



Date: 2.APR.2026 15:46:12

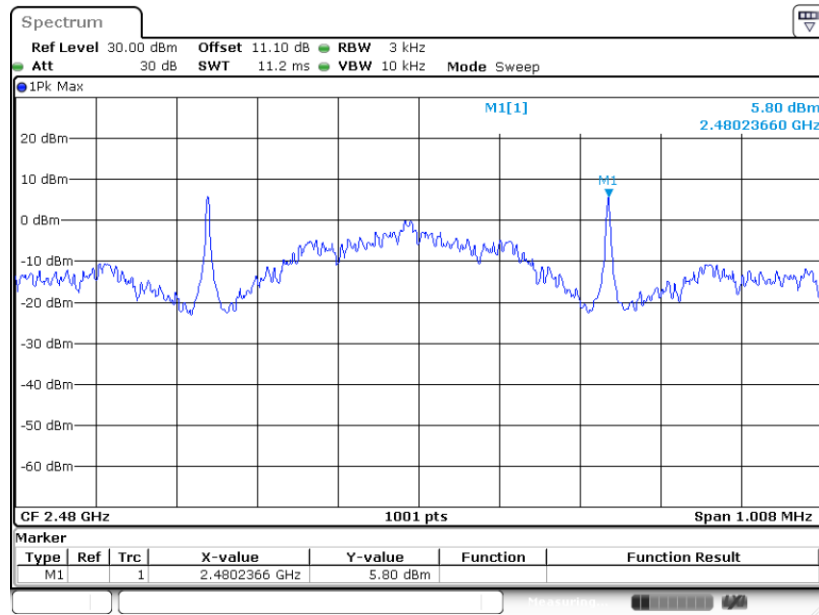
PSD 3kHz Plot on Channel 19



Date: 2.APR.2026 15:48:52

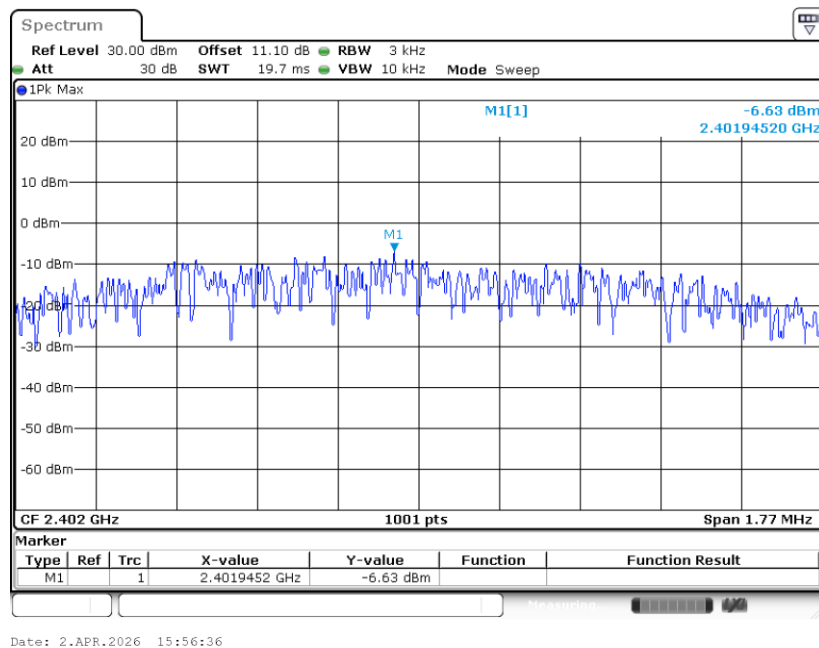


PSD 3kHz Plot on Channel 39



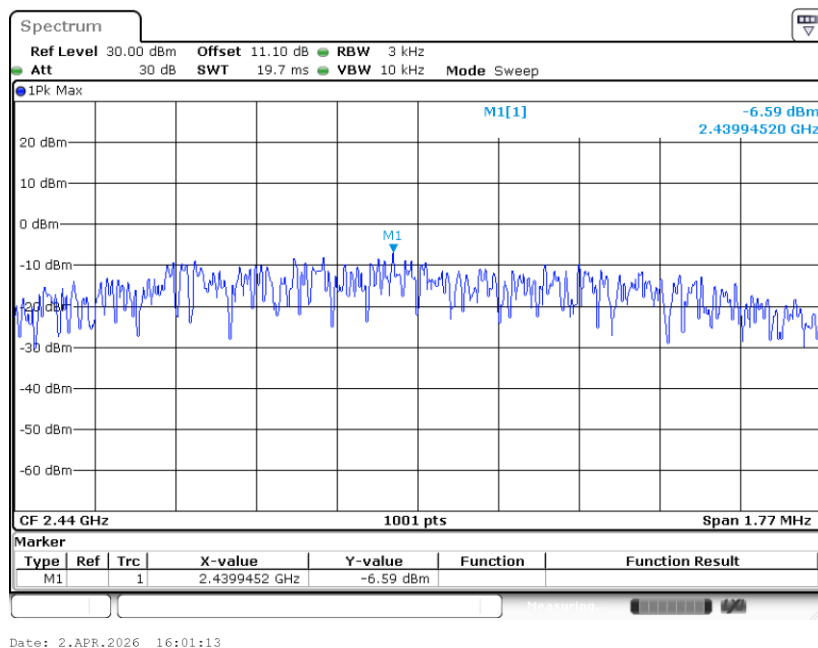
BLE 2Mbps:

PSD 3kHz Plot on Channel 00

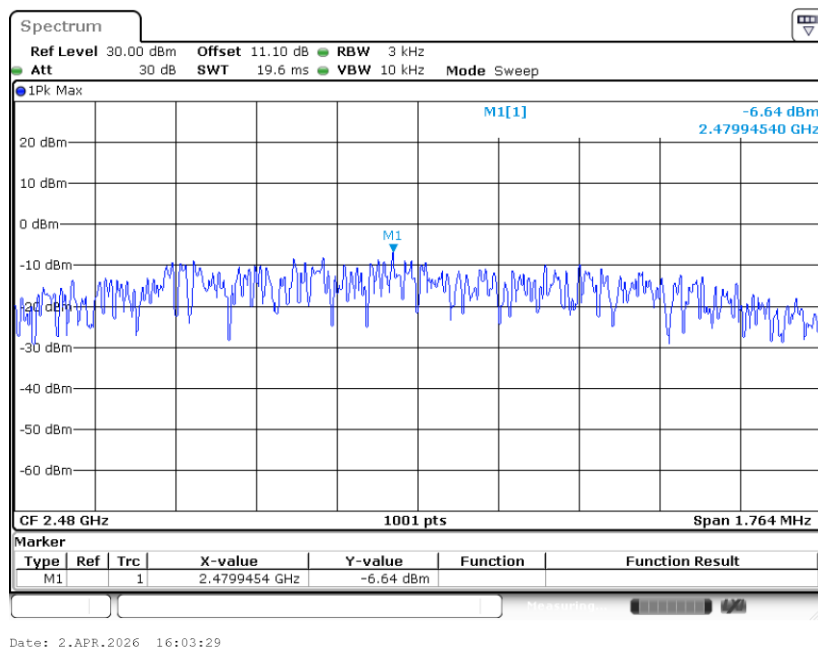




PSD 3kHz Plot on Channel 19



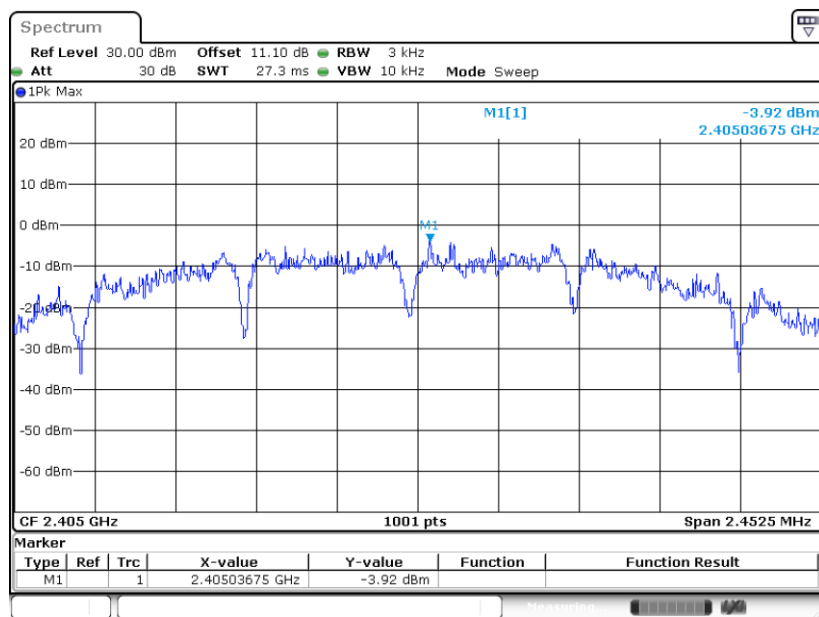
PSD 3kHz Plot on Channel 39





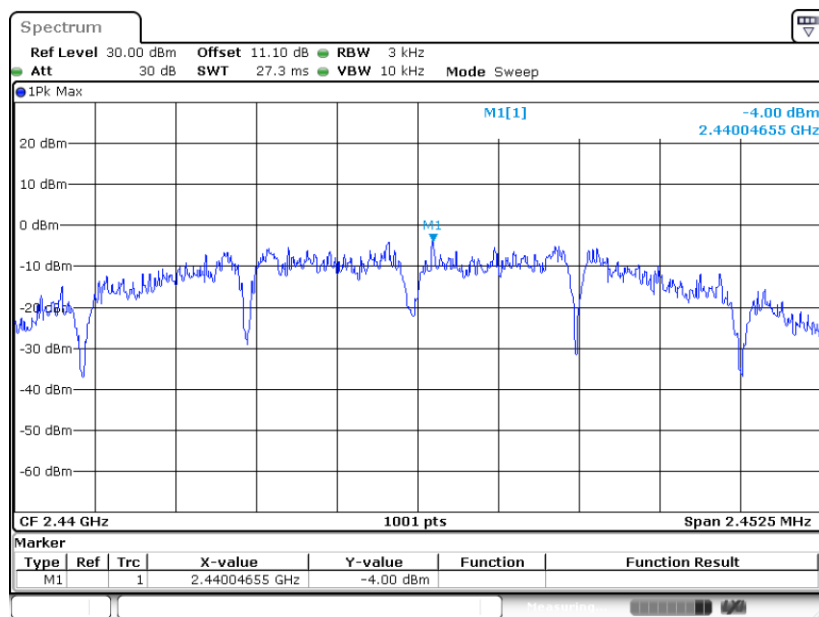
Thread:

PSD 3kHz Plot on Channel 11



Date: 9.APR.2026 09:27:51

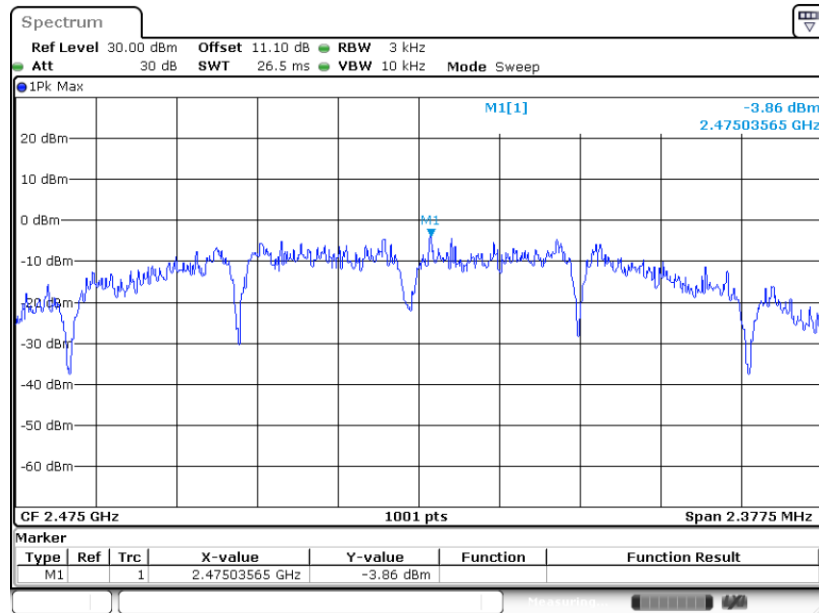
PSD 3kHz Plot on Channel 18



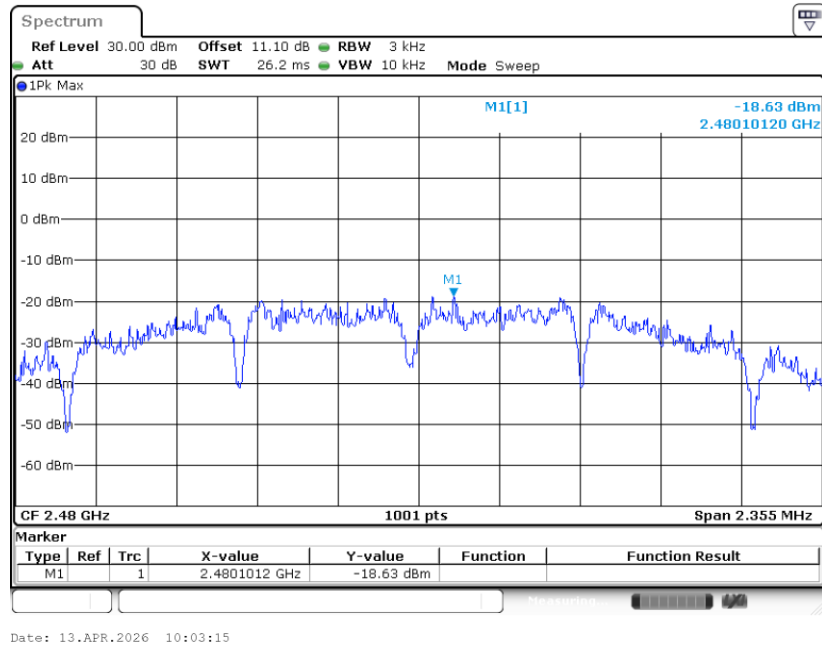
Date: 9.APR.2026 09:31:33



PSD 3kHz Plot on Channel 25



PSD 3kHz Plot on Channel 26



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

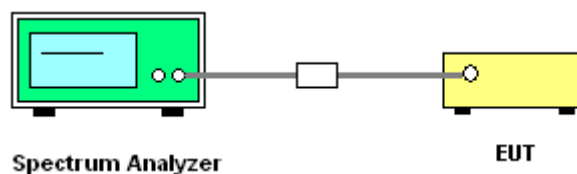
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 11.11.3
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

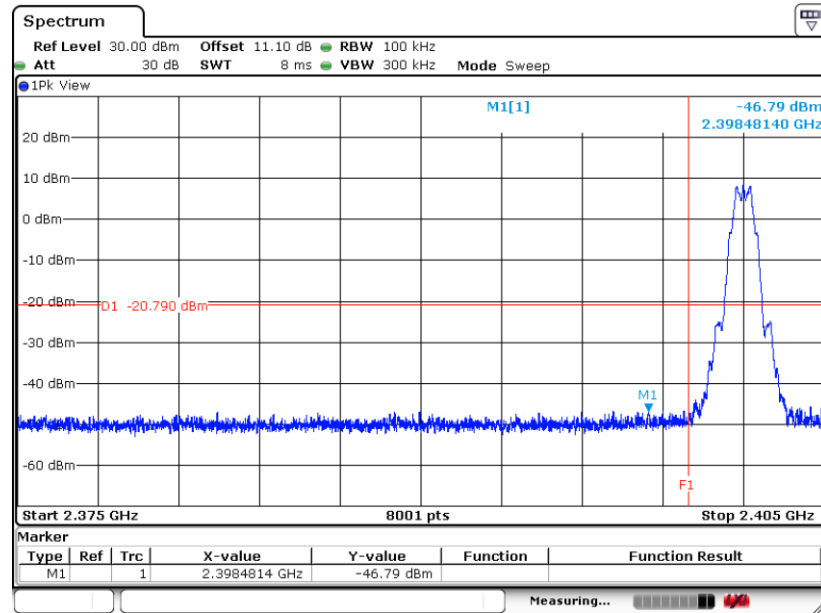




3.4.5 Test Result of Conducted Band Edges Plots

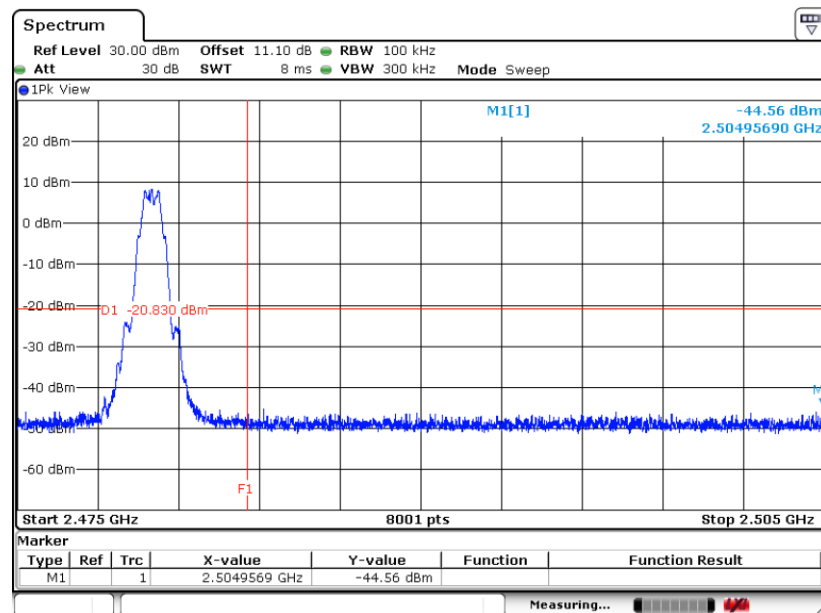
BLE 125Kbps:

Low Band Edge Plot on Channel 00



Date: 2.APR.2026 15:47:16

High Band Edge Plot on Channel 39

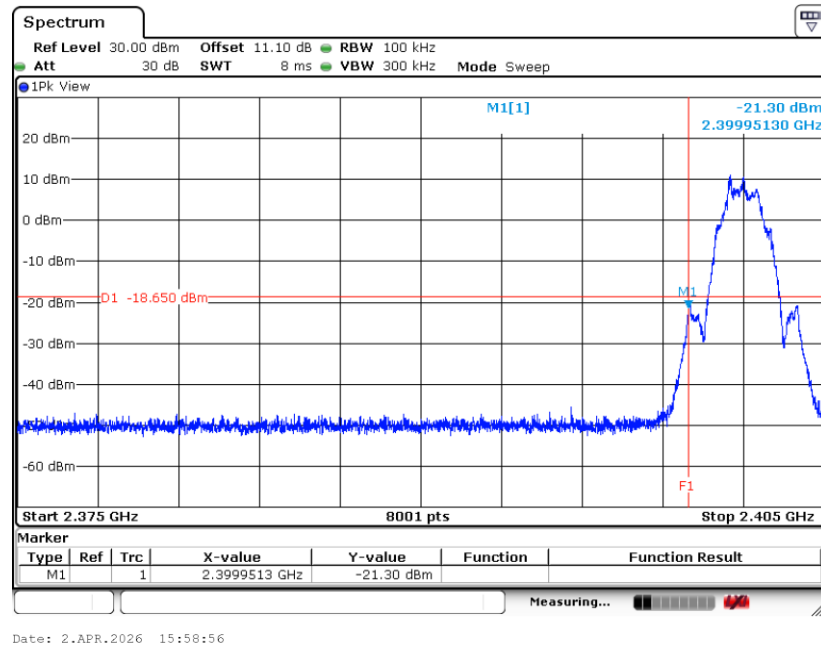


Date: 2.APR.2026 15:52:17

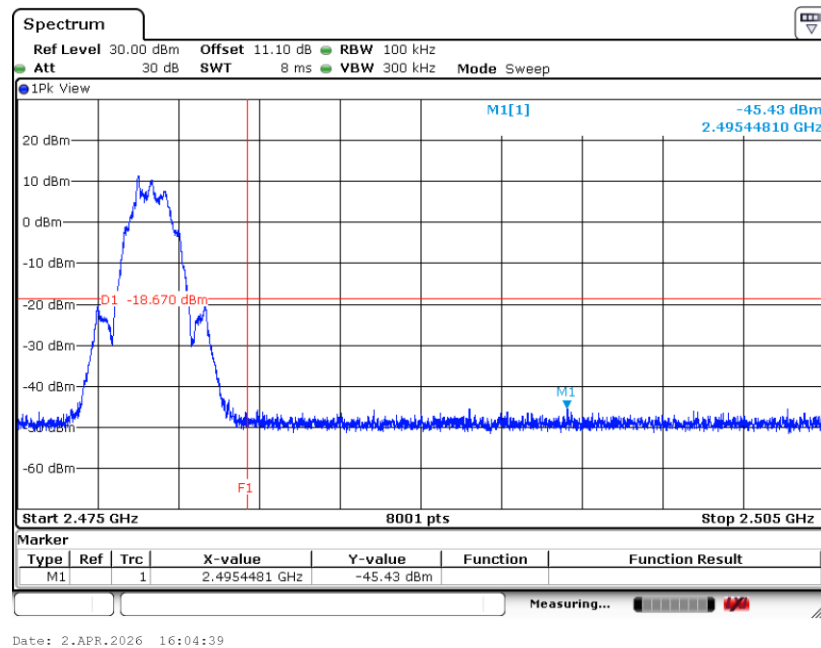


BLE 2Mbps:

Low Band Edge Plot on Channel 00



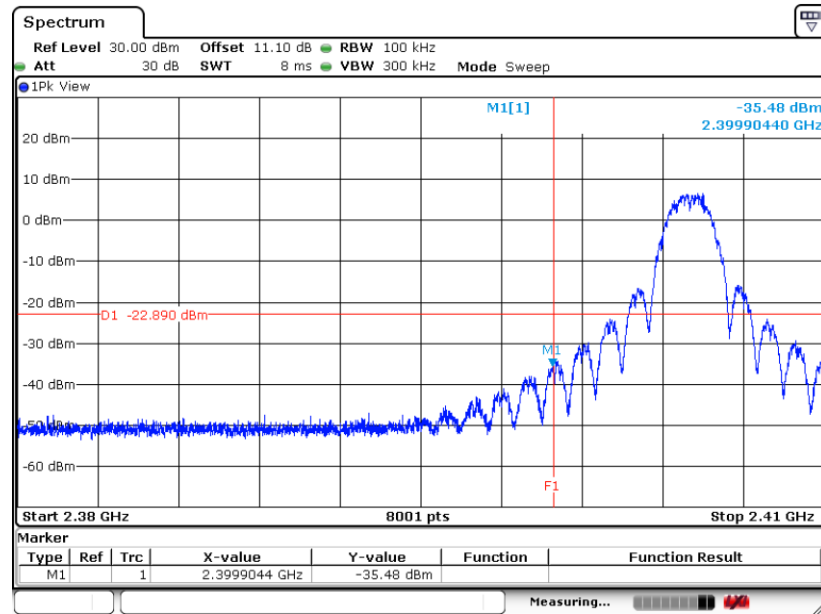
High Band Edge Plot on Channel 39





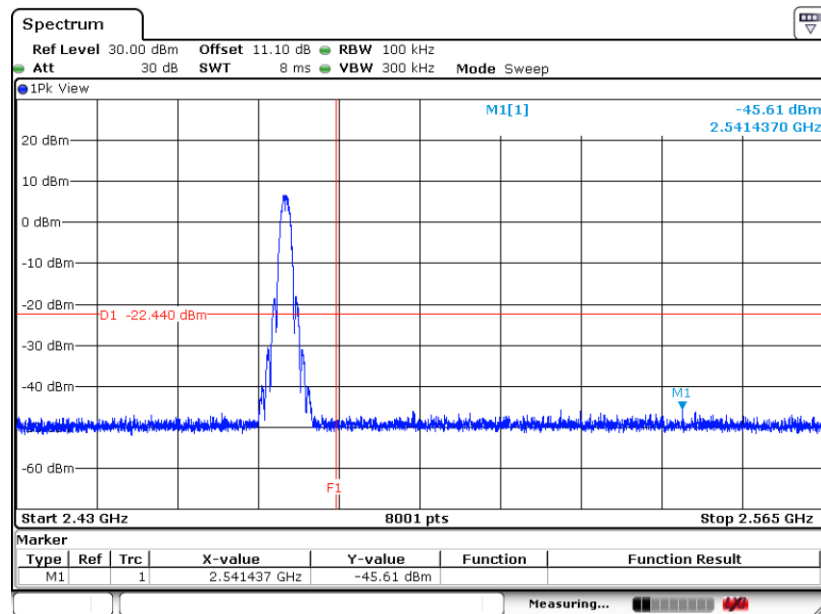
Thread:

Low Band Edge Plot on Channel 11



Date: 9.APR.2026 09:28:57

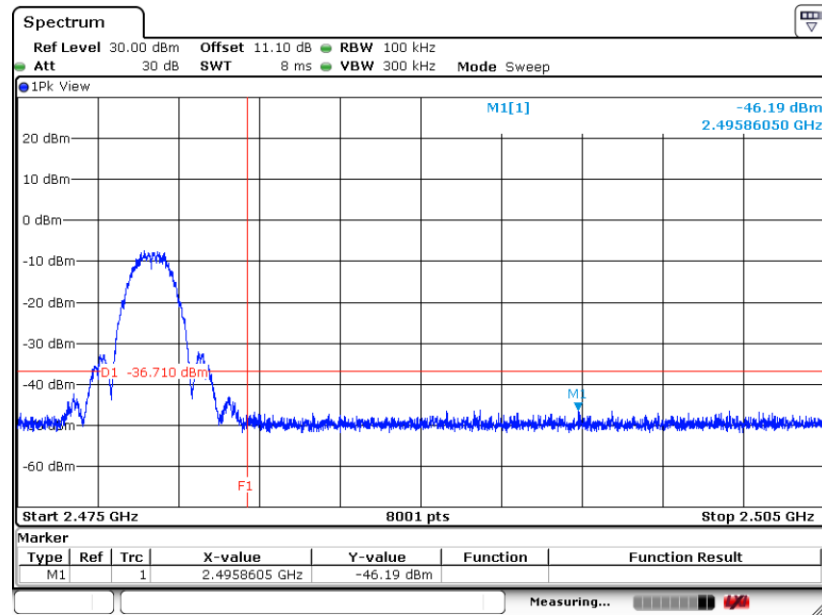
High Band Edge Plot on Channel 25



Date: 13.APR.2026 09:55:06



High Band Edge Plot on Channel 26

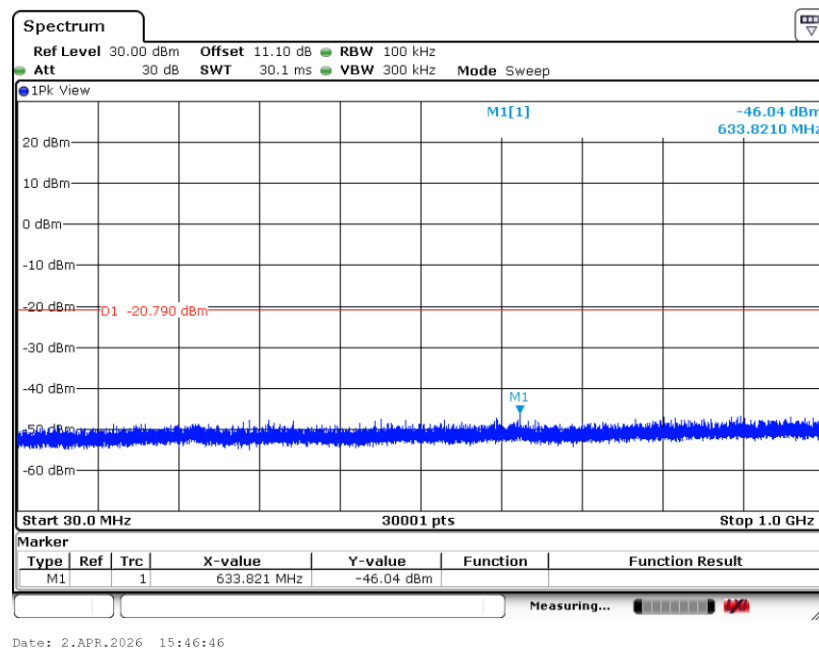


Date: 13.APR.2026 10:06:27

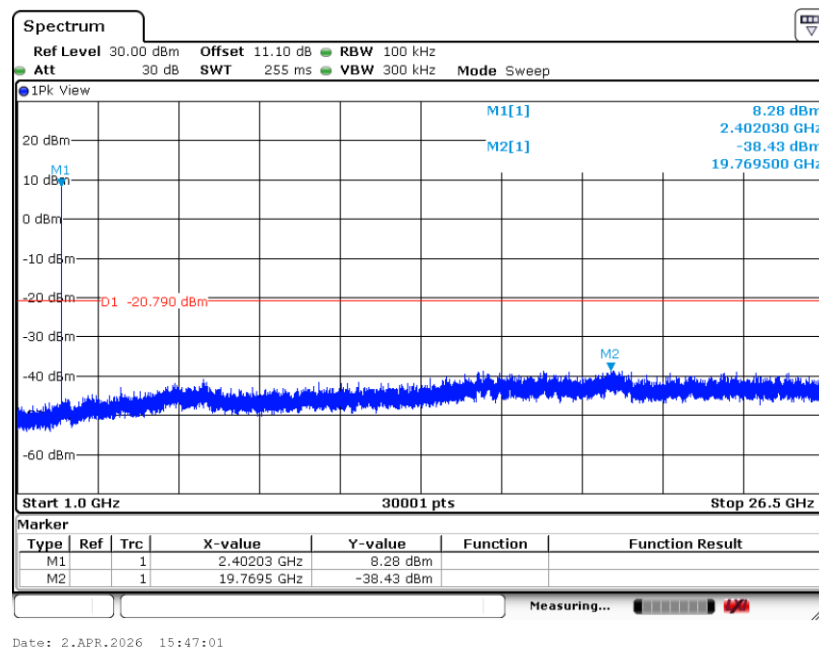


3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 00

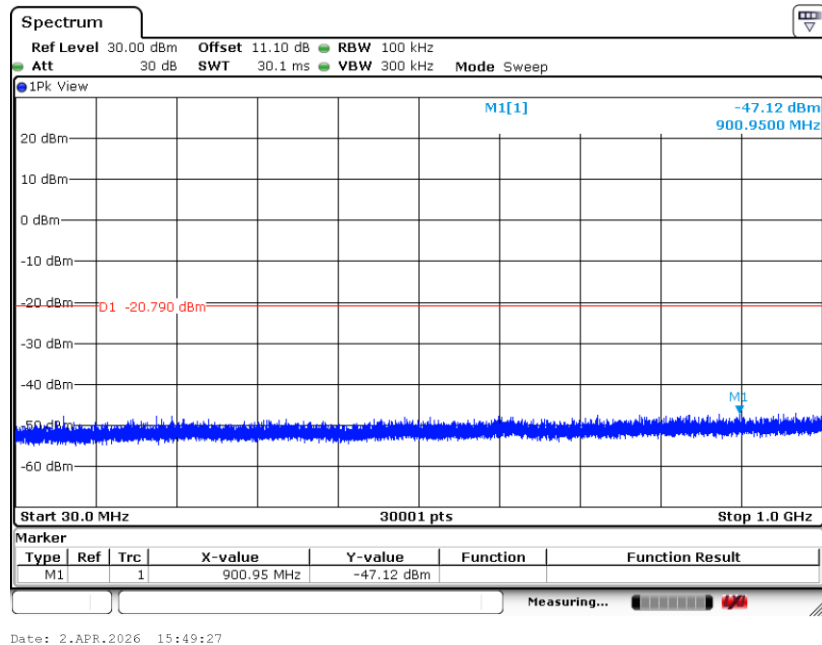


Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 00

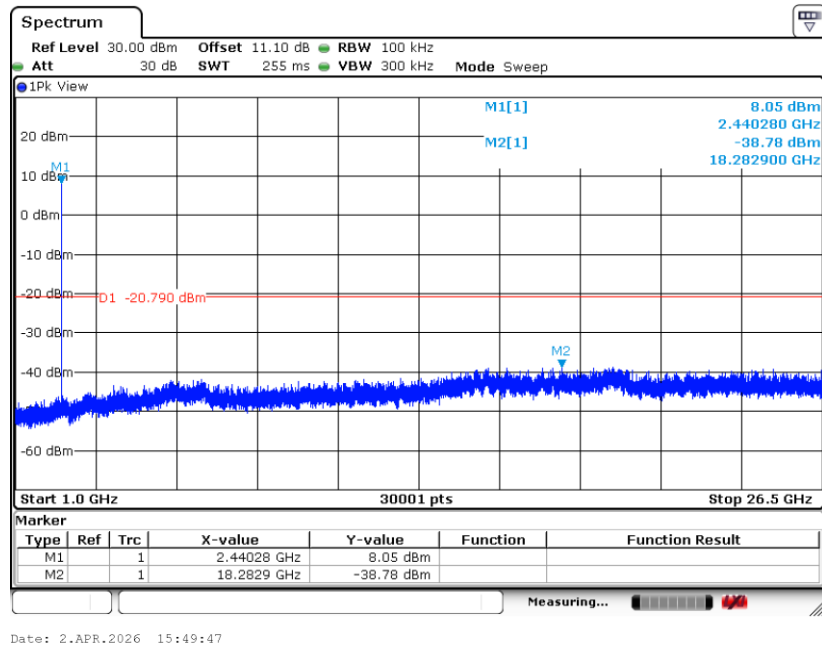




Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 19

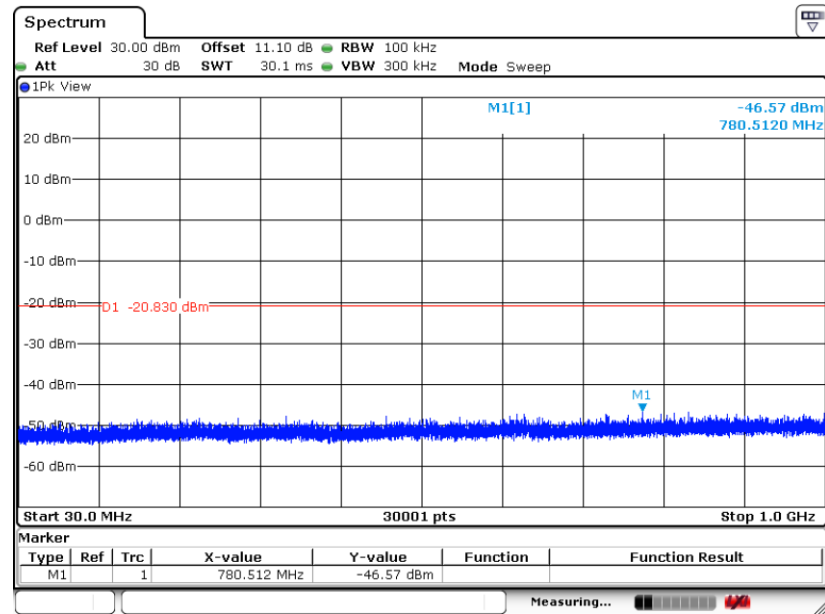


Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 19



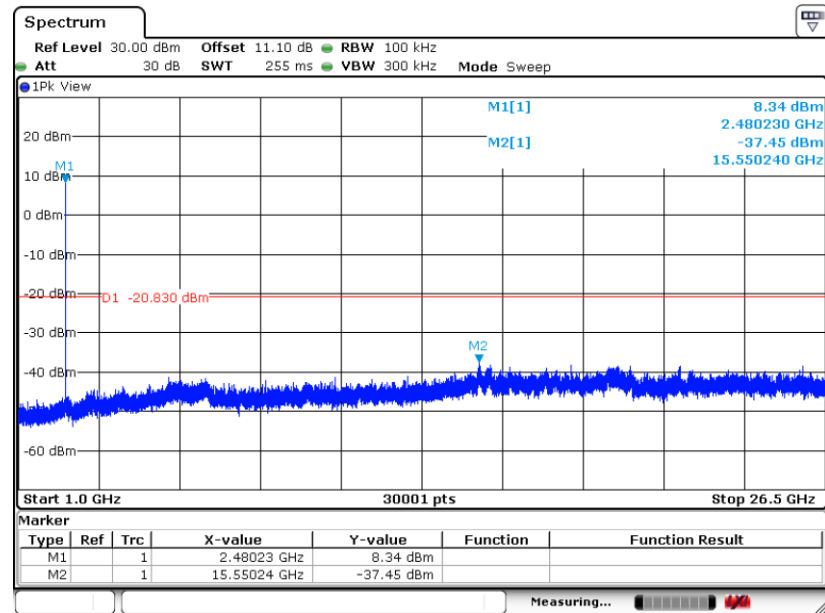


Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 39



Date: 2.APR.2026 15:51:42

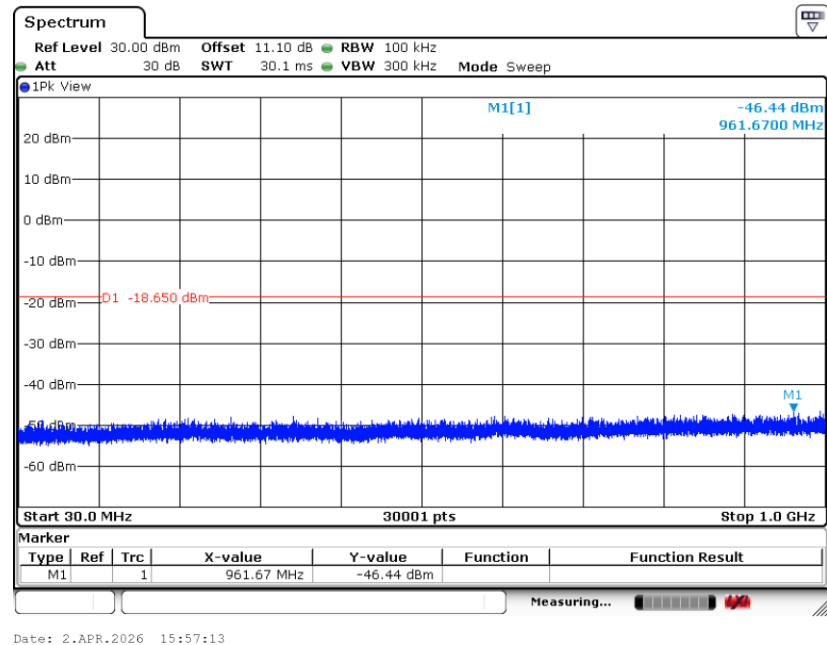
Conducted Spurious Emission Plot on Bluetooth LE 125Kbps GFSK Channel 39



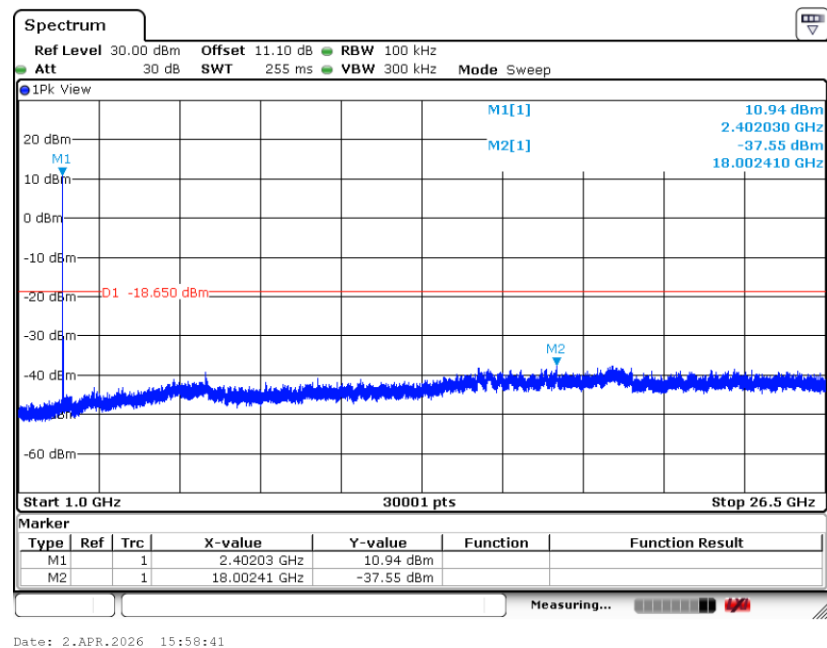
Date: 2.APR.2026 15:51:58



Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 00

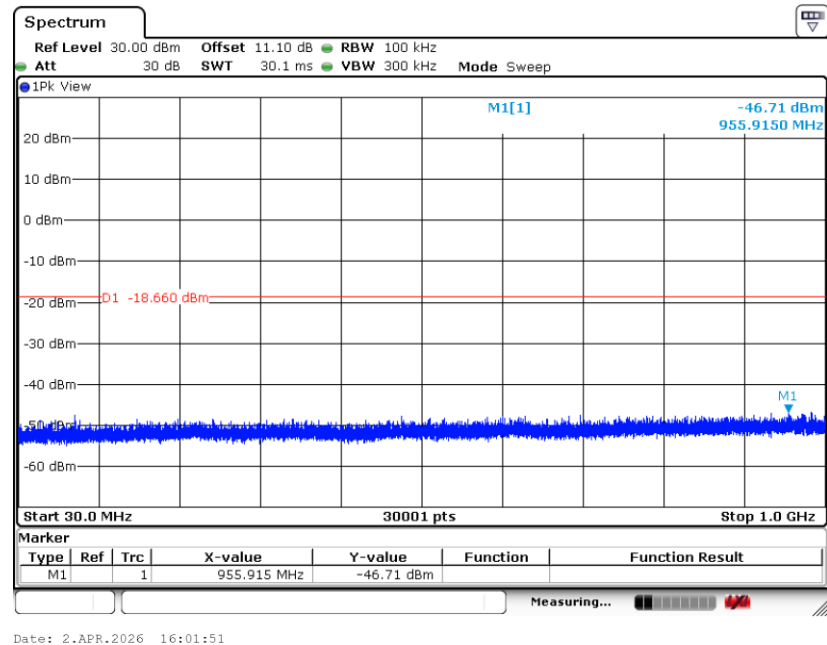


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 00

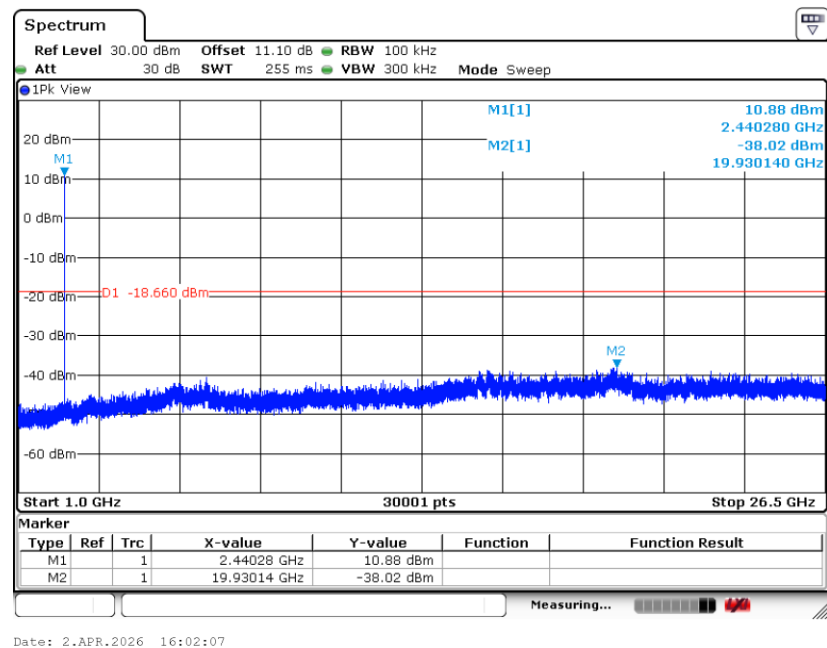




Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19

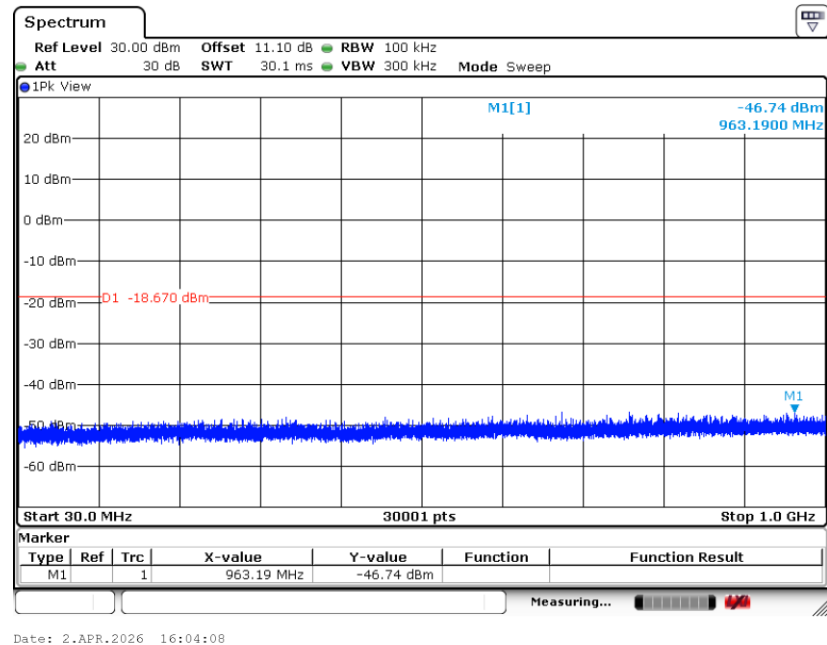


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19

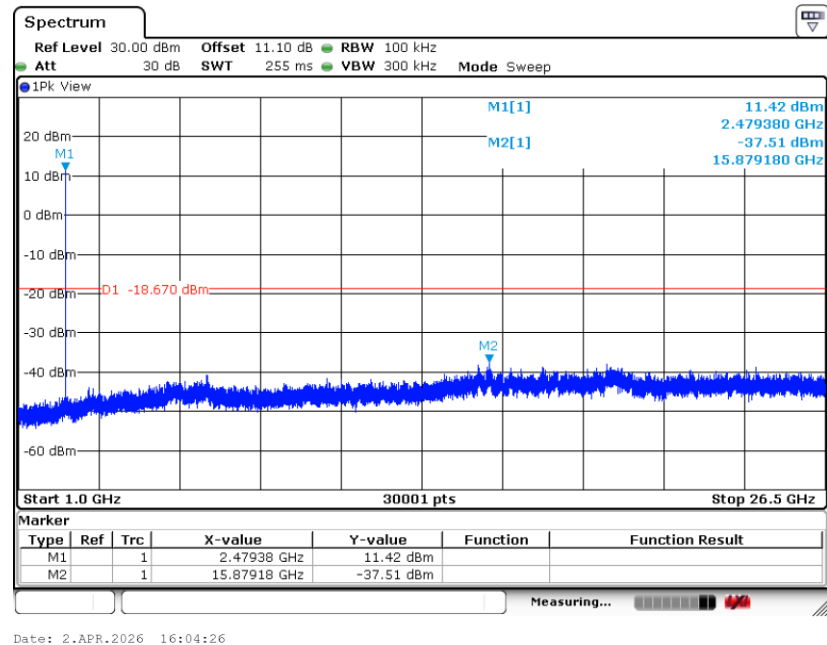




Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39



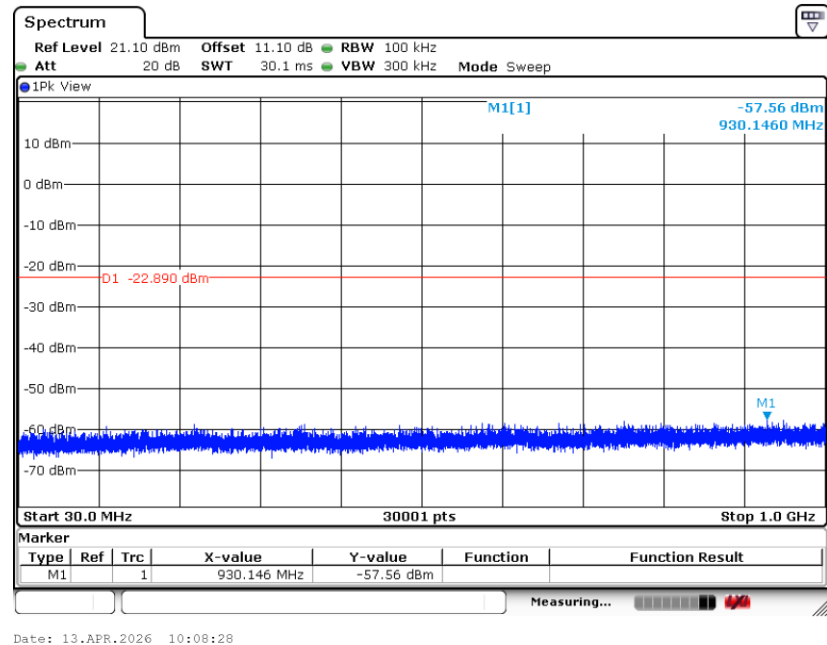
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39





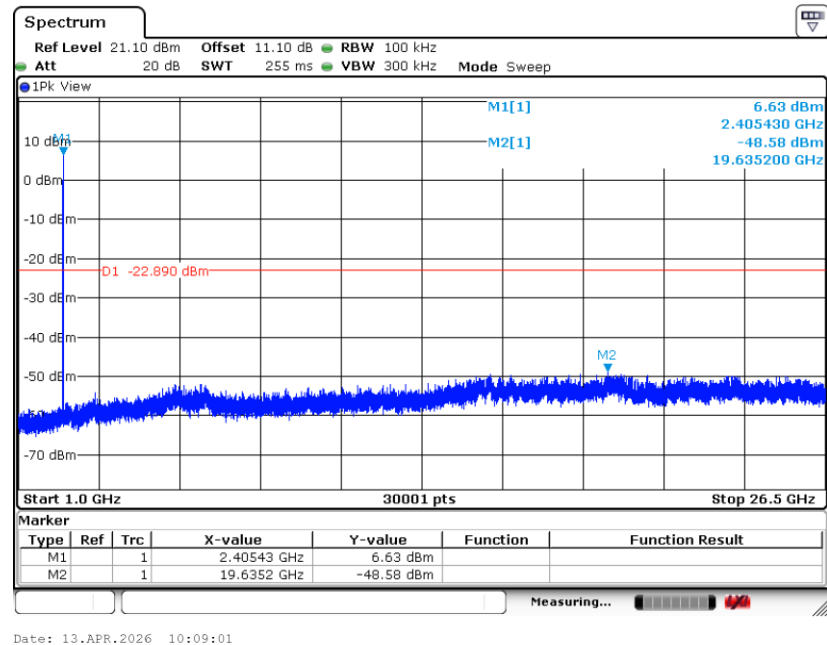
Conducted Spurious Emission Plot on Thread

O-QPSK Channel 11



Conducted Spurious Emission Plot on Thread

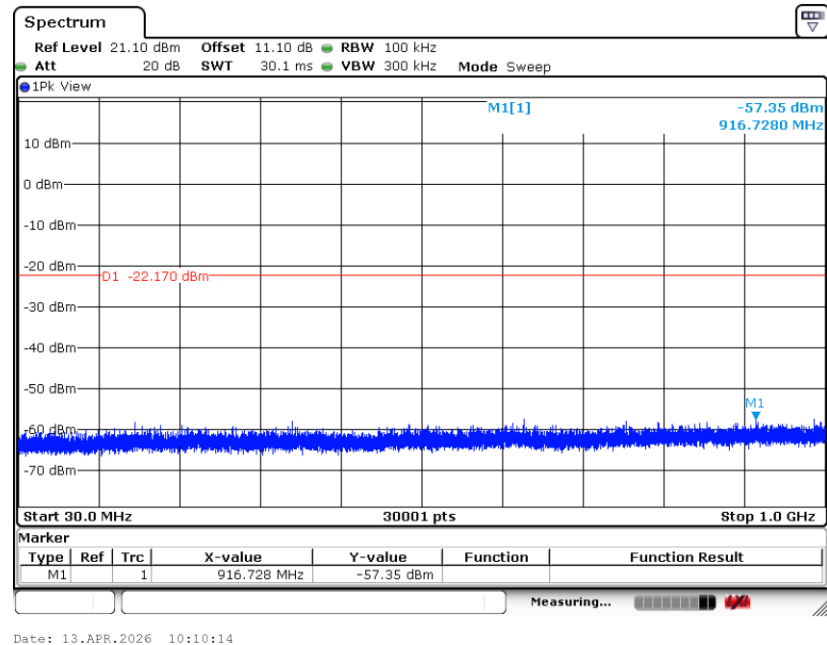
O-QPSK Channel 11





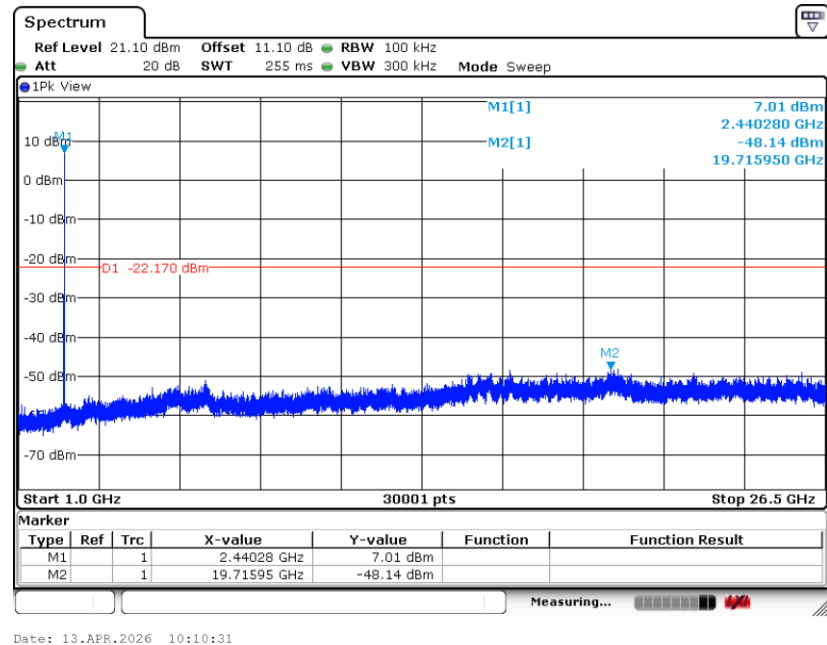
Conducted Spurious Emission Plot on Thread

O-QPSK Channel 18



Conducted Spurious Emission Plot on Thread

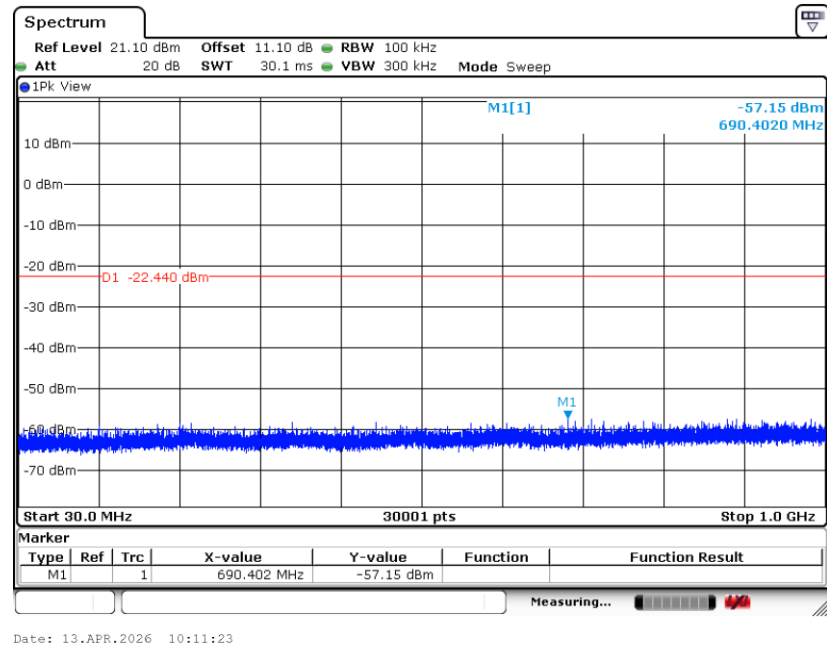
O-QPSK Channel 18





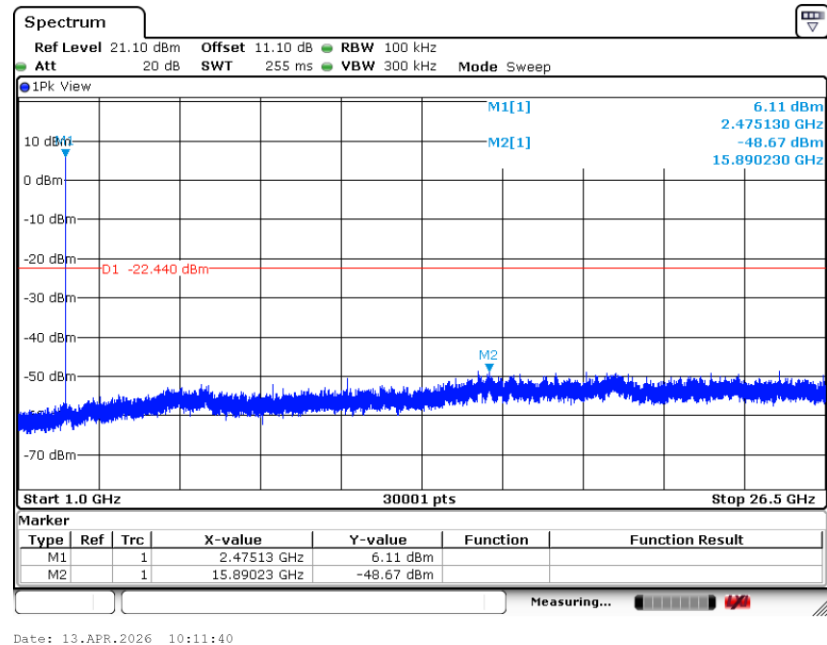
Conducted Spurious Emission Plot on Thread

O-QPSK Channel 25



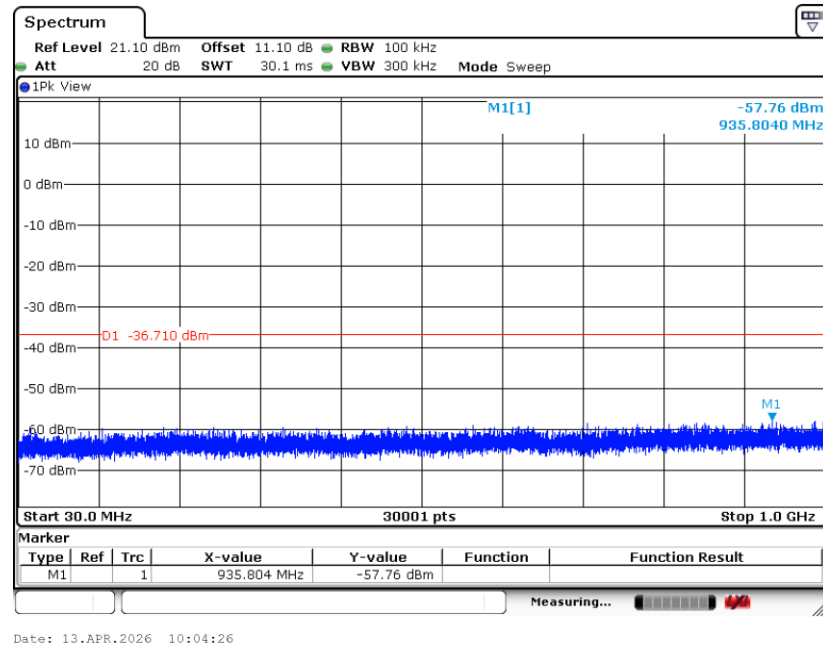
Conducted Spurious Emission Plot on Thread

O-QPSK Channel 25



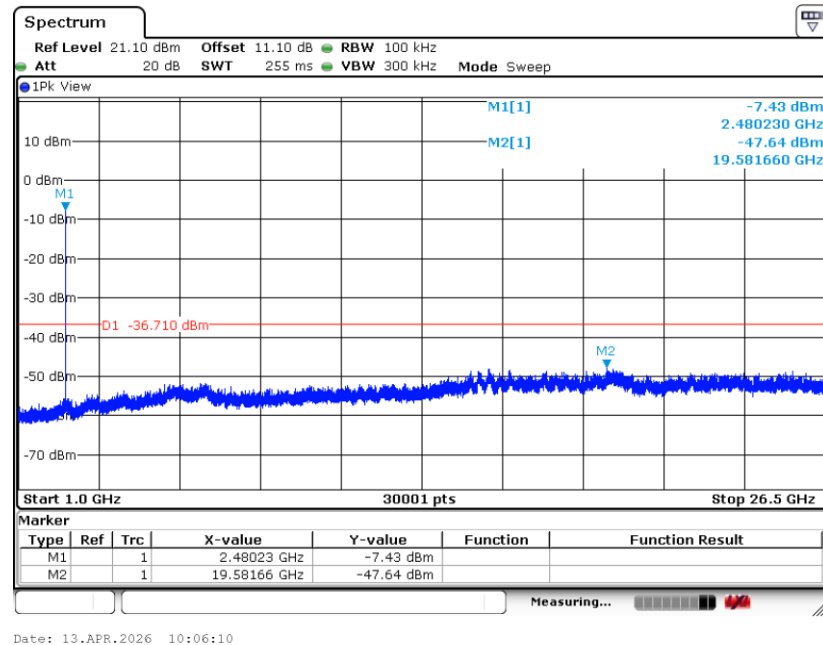
Conducted Spurious Emission Plot on Thread

O-QPSK Channel 26



Conducted Spurious Emission Plot on Thread

O-QPSK Channel 26



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

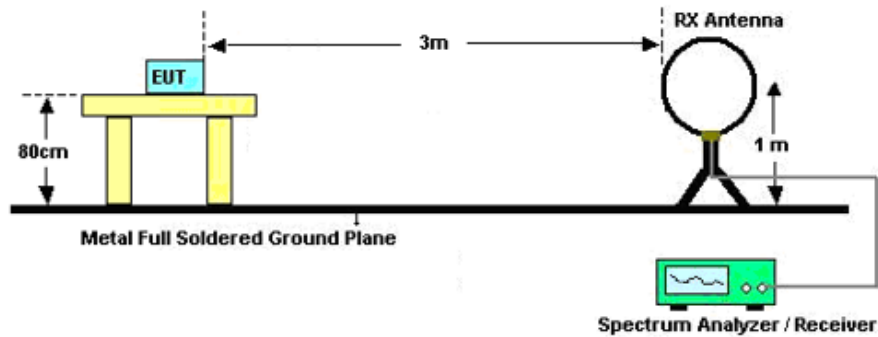
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.5.3 Test Procedures

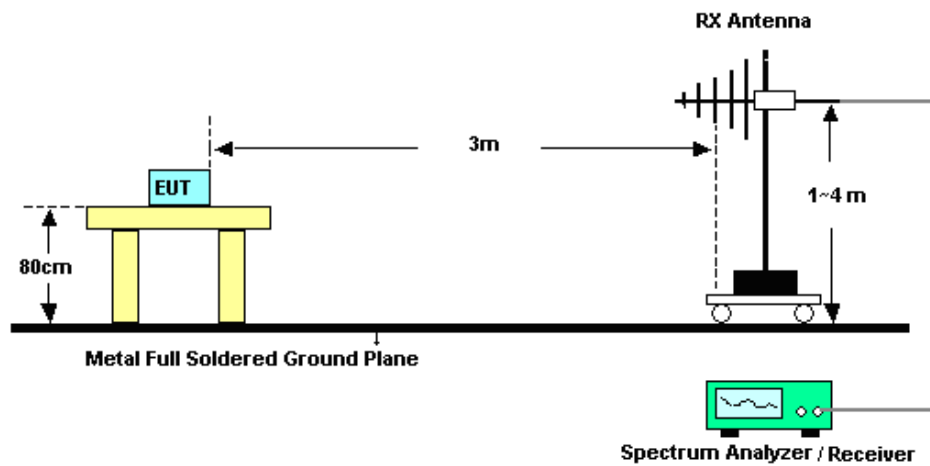
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

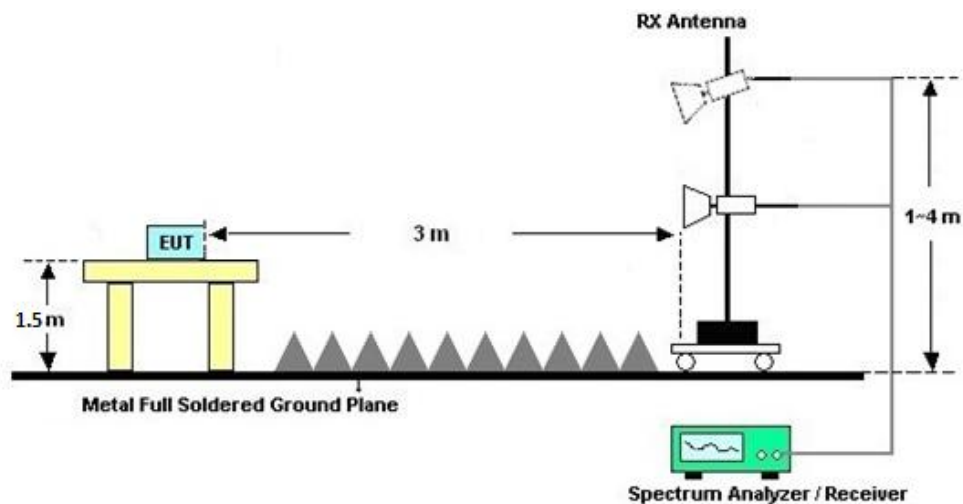
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment 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.

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.

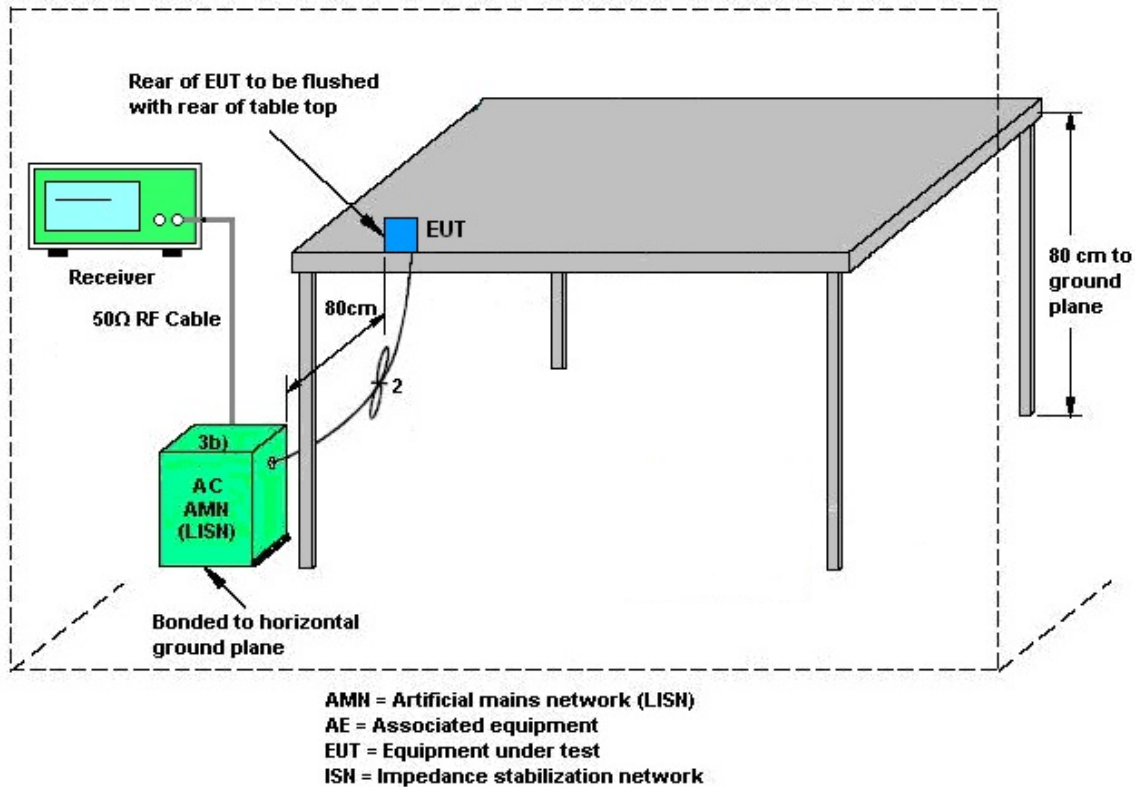
3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 15, 2025	Apr. 08, 2026~ Apr. 15, 2026	Oct. 14, 2026	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Apr. 08, 2026~ Apr. 15, 2026	Jul. 02, 2026	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 25, 2025	Apr. 08, 2026~ Apr. 15, 2026	Dec. 24, 2026	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Apr. 21, 2025	Apr. 08, 2026~ Apr. 15, 2026	Apr. 20, 2026	Radiation (03CH04-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240057	1GHz~18GHz	Jun. 26, 2025	Apr. 08, 2026~ Apr. 15, 2026	Jun. 25, 2026	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2025	Apr. 08, 2026~ Apr. 15, 2026	Jul. 03, 2026	Radiation (03CH04-SZ)
LF Amplifier	EM Electronics	EM330	060773	20MHz~3GHz	Mar. 26, 2026	Apr. 08, 2026~ Apr. 15, 2026	Mar. 25, 2027	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 13, 2025	Apr. 08, 2026~ Apr. 15, 2026	Oct. 12, 2026	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 02, 2025	Apr. 08, 2026~ Apr. 15, 2026	Jul. 01, 2026	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Jul. 03, 2025	Apr. 08, 2026~ Apr. 15, 2026	Jul. 02, 2026	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 14, 2025	Apr. 08, 2026~ Apr. 15, 2026	Oct. 13, 2026	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 08, 2026~ Apr. 15, 2026	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 08, 2026~ Apr. 15, 2026	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 02, 2025	May 15, 2026	Jul. 01, 2026	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2025	May 15, 2026	Jul. 02, 2026	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	6160100024 70	100Vac~250Vac	Dec.14, 2025	May 15, 2026	Dec. 13, 2026	Conduction (CO02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Mar. 26, 2026	Apr. 02, 2026~ Apr. 13, 2026	Mar. 25, 2027	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 24, 2025	Apr. 02, 2026~ Apr. 13, 2026	Dec. 23, 2026	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct.13,2025	Apr. 02, 2026~ Apr. 13, 2026	Oct. 12, 2026	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.4 dB
---	--------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
---	--------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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----- THE END -----



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	He Qingsheng	Temperature:	21~25	°C
Test Date:	2026/4/2~4/13	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Thread	250K	1	11	2405	2.363	1.635	0.50	Pass
Thread	250K	1	18	2440	2.368	1.635	0.50	Pass
Thread	250K	1	25	2475	2.248	1.585	0.50	Pass
Thread	250K	1	26	2480	2.253	1.570	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Power Setting	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Thread	250K	1	11	2405	5.77	12.10	12.00	30.00	0.20	12.30	36.00	Pass
Thread	250K	1	18	2440	5.77	12.00	12.00	30.00	0.20	12.20	36.00	Pass
Thread	250K	1	25	2475	5.77	11.70	12.00	30.00	0.20	11.90	36.00	Pass
Thread	250K	1	26	2480	5.77	-2.80	0	30.00	0.20	-2.60	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
Thread	250K	1	11	2405	7.11	-3.92	0.20	8.00	Pass
Thread	250K	1	18	2440	7.83	-4.00	0.20	8.00	Pass
Thread	250K	1	25	2475	7.56	-3.86	0.20	8.00	Pass
Thread	250K	1	26	2480	-6.71	-18.63	0.20	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	125kbps	1	0	2402	1.057	0.674	0.50	Pass
BLE	125kbps	1	19	2440	1.057	0.672	0.50	Pass
BLE	125kbps	1	39	2480	1.061	0.672	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Power Setting	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	125kbps	1	0	2402	0.83	12.53	12.00	30.00	0.20	12.73	36.00	Pass
BLE	125kbps	1	19	2440	0.83	12.63	12.00	30.00	0.20	12.83	36.00	Pass
BLE	125kbps	1	39	2480	0.83	12.68	12.00	30.00	0.20	12.88	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	125kbps	1	0	2402	9.21	5.82	0.20	8.00	Pass
BLE	125kbps	1	19	2440	9.21	5.81	0.20	8.00	Pass
BLE	125kbps	1	39	2480	9.17	5.80	0.20	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Power Setting	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	500kbps	1	0	2402	3.69	12.50	12.00	30.00	0.20	12.70	36.00	Pass
BLE	500kbps	1	19	2440	3.69	12.60	12.00	30.00	0.20	12.80	36.00	Pass
BLE	500kbps	1	39	2480	3.69	12.62	12.00	30.00	0.20	12.82	36.00	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Power Setting	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	2.08	12.48	12.00	30.00	0.20	12.68	36.00	Pass
BLE	1Mbps	1	19	2440	2.08	12.61	12.00	30.00	0.20	12.81	36.00	Pass
BLE	1Mbps	1	39	2480	2.08	12.65	12.00	30.00	0.20	12.85	36.00	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	0	2402	2.042	1.180	0.50	Pass
BLE	2Mbps	1	19	2440	2.038	1.180	0.50	Pass
BLE	2Mbps	1	39	2480	2.046	1.176	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	Power Setting	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	4.77	12.46	12.00	30.00	0.20	12.66	36.00	Pass
BLE	2Mbps	1	19	2440	4.77	12.60	12.00	30.00	0.20	12.80	36.00	Pass
BLE	2Mbps	1	39	2480	4.77	12.63	12.00	30.00	0.20	12.83	36.00	Pass

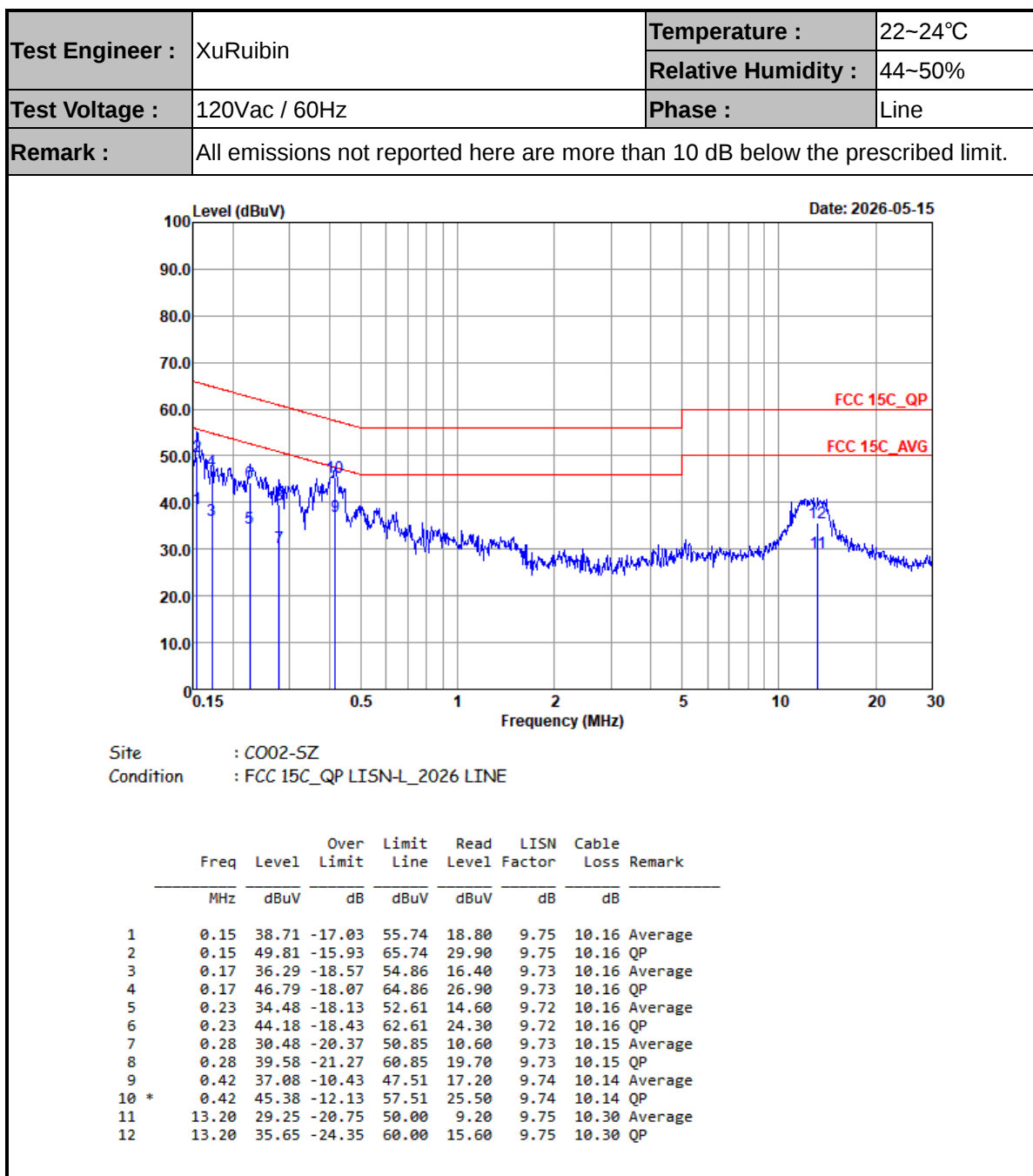
TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	11.35	-6.63	0.20	8.00	Pass
BLE	2Mbps	1	19	2440	11.34	-6.59	0.20	8.00	Pass
BLE	2Mbps	1	39	2480	11.33	-6.64	0.20	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

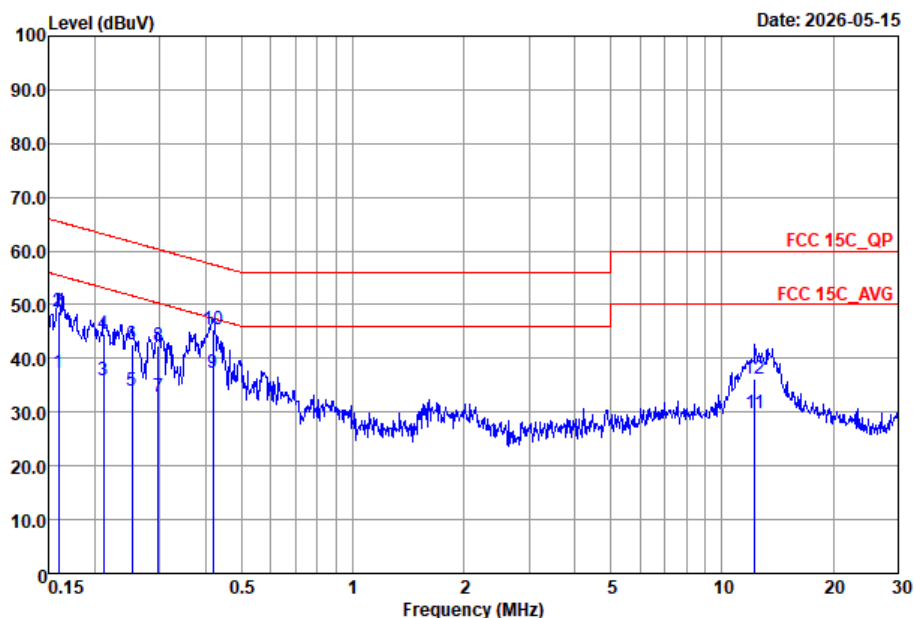


Appendix B. AC Conducted Emission Test Results





Test Engineer :	XuRuibin	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15C_QP LISN-N_2026 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.16	37.44	-18.03	55.47	17.50	9.78	10.16	Average
2	0.16	48.74	-16.73	65.47	28.80	9.78	10.16	QP
3	0.21	35.84	-17.30	53.14	15.90	9.78	10.16	Average
4	0.21	44.44	-18.70	63.14	24.50	9.78	10.16	QP
5	0.25	33.93	-17.76	51.69	14.00	9.78	10.15	Average
6	0.25	42.73	-18.96	61.69	22.80	9.78	10.15	QP
7	0.30	32.83	-17.49	50.32	12.90	9.78	10.15	Average
8	0.30	42.43	-17.89	60.32	22.50	9.78	10.15	QP
9	0.42	37.40	-10.06	47.46	17.50	9.76	10.14	Average
10 *	0.42	45.30	-12.16	57.46	25.40	9.76	10.14	QP
11	12.25	29.78	-20.22	50.00	9.70	9.78	10.30	Average
12	12.25	36.28	-23.72	60.00	16.20	9.78	10.30	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Test Engineer :	ZhangXu	Relative Humidity :	48~49%
		Temperature :	24℃~25℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	1	Bluetooth-LE_GSKF	00	2402	125Kbps	-
Mode 2	2400-2483.5	1	Bluetooth-LE_GSKF	19	2440	125Kbps	-
Mode 3	2400-2483.5	1	Bluetooth-LE_GSKF	39	2480	125Kbps	-
Mode 4	2400-2483.5	1	Bluetooth-LE_GSKF	00	2402	2Mbps	-
Mode 5	2400-2483.5	1	Bluetooth-LE_GSKF	19	2440	2Mbps	-
Mode 6	2400-2483.5	1	Bluetooth-LE_GSKF	39	2480	2Mbps	-
Mode 7	2400-2483.5	1	Bluetooth-LE_GSKF	39	2480	125Kbps	LF
Mode 8	2400-2483.5	1	Thread	11	2402	250 kbps	-
Mode 9	2400-2483.5	1	Thread	18	2440	250 kbps	-
Mode 10	2400-2483.5	1	Thread	26	2480	250 kbps	-
Mode 11	2400-2483.5	1	Thread	26	2480	250 kbps	LF
Mode 12	2400-2483.5	1	Thread	25	2475	250 kbps	-

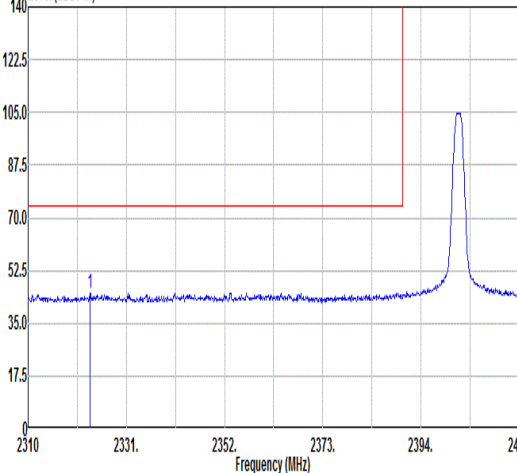
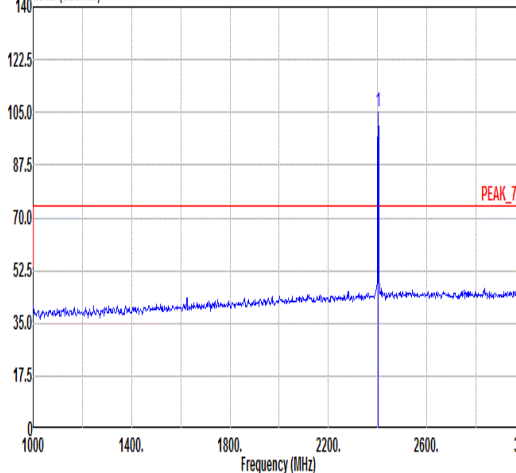
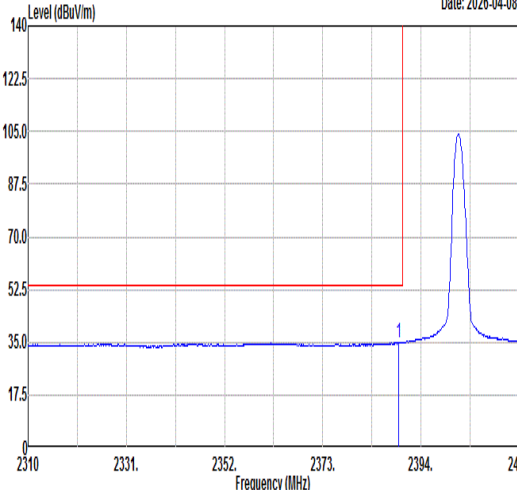
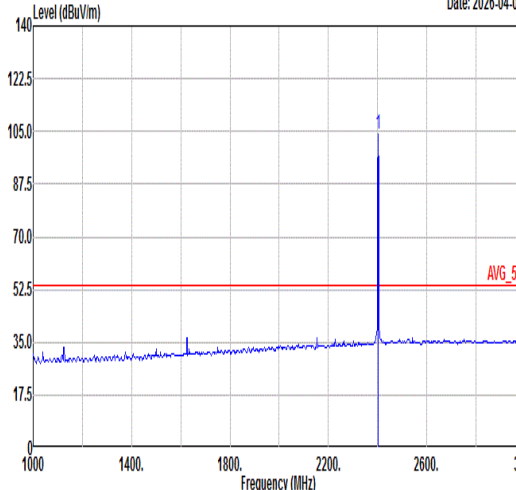
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	PEAK Avg.	Result	Remark
1	Bluetooth-LE_GSKF	00	2389.17	35.00	54.00	-19.00	V	AVERAGE	Pass	Band Edge
1	Bluetooth-LE_GSKF	00	4804.00	44.08	74.00	-29.92	H	Peak	Pass	Harmonic
2	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
2	Bluetooth-LE_GSKF	19	7320.00	46.06	74.00	-27.94	H	Peak	Pass	Harmonic
3	Bluetooth-LE_GSKF	39	2483.52	44.19	54.00	-9.81	V	AVERAGE	Pass	Band Edge
3	Bluetooth-LE_GSKF	39	7440.00	47.13	74.00	-26.87	V	Peak	Pass	Harmonic
4	Bluetooth-LE_GSKF	00	2375.84	43.73	54.00	-10.27	V	AVERAGE	Pass	Band Edge
4	Bluetooth-LE_GSKF	00	4804.00	44.20	74.00	-29.80	V	Peak	Pass	Harmonic
5	Bluetooth-LE_GSKF	19	-	-	-	-	-	-	-	Band Edge
5	Bluetooth-LE_GSKF	19	7320.00	45.87	74.00	-28.13	V	Peak	Pass	Harmonic
6	Bluetooth-LE_GSKF	39	2483.52	42.89	54.00	-11.11	V	AVERAGE	Pass	Band Edge
6	Bluetooth-LE_GSKF	39	7440.00	46.00	74.00	-28.00	V	Peak	Pass	Harmonic
7	Bluetooth-LE_GSKF	39	30	30.73	40	-9.27	V	Peak	Pass	LF
8	Thread	11	2375.94	37.61	54.00	-16.39	H	AVERAGE	Pass	Band Edge
8	Thread	11	4815	44.85	74	-29.15	V	Peak	Pass	Harmonic
9	Thread	18	-	-	-	-	-	-	-	Band Edge
9	Thread	18	7320.00	45.77	74.00	-28.23	V	Peak	Pass	Harmonic
10	Thread	26	2483.52	46.13	54.00	-7.87	H	AVERAGE	Pass	Band Edge
10	Thread	26	7440.00	46.04	74.00	-27.96	H	Peak	Pass	Harmonic
11	Thread	30	29.89	40	-10.11	30	V	Peak	Pass	LF
12	Thread	25	2483.98	36.54	54.00	-17.46	V	AVERAGE	Pass	Band Edge
12	Thread	25	7425.00	45.81	74.00	-28.19	H	Peak	Pass	Harmonic

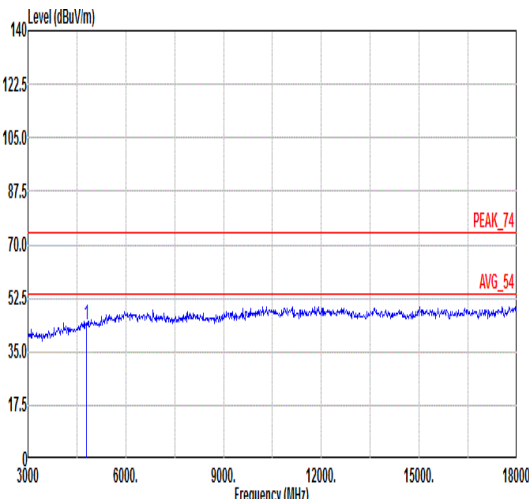
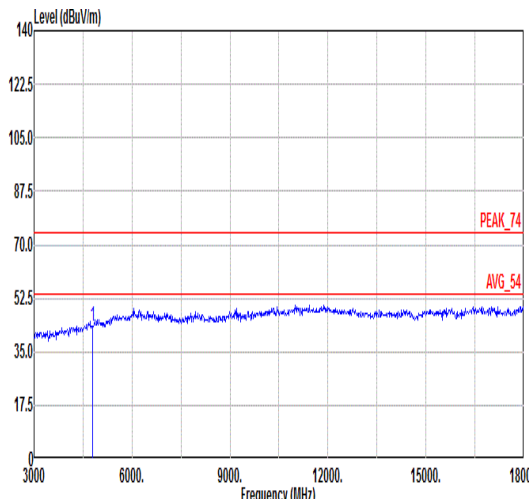


Mode	1																																																		
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	2400-2483.5_Bluetooth-LE_GSKF_CH00_2402MHz																																																		
ANT	1																																																		
Pol.	Horizontal																																																		
Peak	Level (dBuV/m) Date: 2026-04-08 <table><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2359.98</td><td>45.15</td><td>74.00</td><td>-28.85</td><td>41.60</td><td>32.38</td><td>5.33</td><td>34.16</td><td>280</td><td>273</td><td>PEAK</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1	2359.98	45.15	74.00	-28.85	41.60	32.38	5.33	34.16	280	273	PEAK
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																										
	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor																																											
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1	2359.98	45.15	74.00	-28.85	41.60	32.38	5.33	34.16	280	273	PEAK																																								
Fundamental	Level (dBuV/m) Date: 2026-04-08 <table><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>100.61</td><td>-----</td><td>-----</td><td>96.94</td><td>32.44</td><td>5.37</td><td>34.14</td><td>280</td><td>273</td><td>PEAK</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1	2402.00	100.61	-----	-----	96.94	32.44	5.37	34.14	280	273	PEAK
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																										
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1	2402.00	100.61	-----	-----	96.94	32.44	5.37	34.14	280	273	PEAK																																								
Avg	Level (dBuV/m) Date: 2026-04-08 <table><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2362.92</td><td>34.57</td><td>54.00</td><td>-19.43</td><td>31.00</td><td>32.38</td><td>5.34</td><td>34.15</td><td>280</td><td>273</td><td>AVERAGE</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1	2362.92	34.57	54.00	-19.43	31.00	32.38	5.34	34.15	280	273	AVERAGE
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																										
	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor																																											
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg																																										
1	2362.92	34.57	54.00	-19.43	31.00	32.38	5.34	34.15	280	273	AVERAGE																																								
AVG_54	Level (dBuV/m) Date: 2026-04-08 <table><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>99.42</td><td>-----</td><td>-----</td><td>95.75</td><td>32.44</td><td>5.37</td><td>34.14</td><td>280</td><td>273</td><td>AVERAGE</td></tr></table>											Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1	2402.00	99.42	-----	-----	95.75	32.44	5.37	34.14	280	273	AVERAGE
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																										
	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor																																											
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg																																										
1	2402.00	99.42	-----	-----	95.75	32.44	5.37	34.14	280	273	AVERAGE																																								

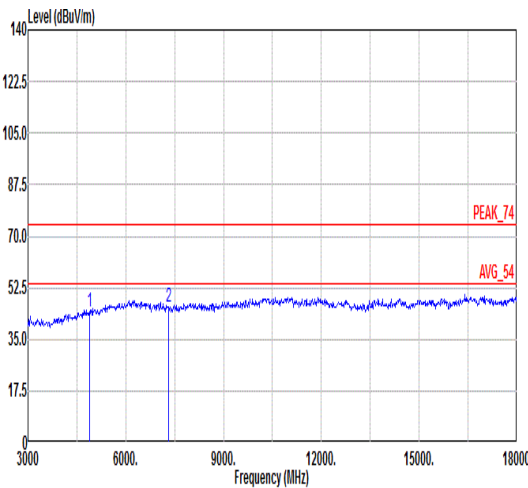
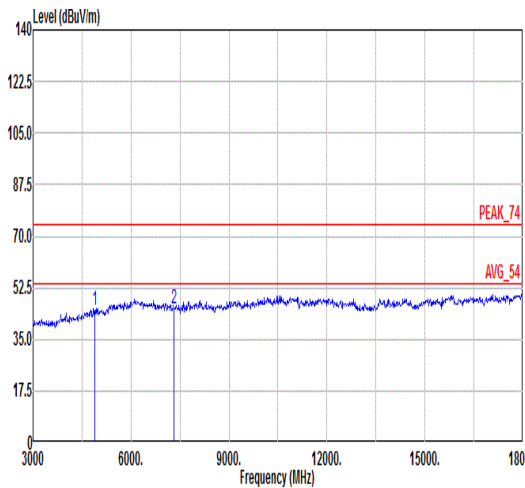


Mode	1																																																																																	
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Peak	Level (dBuV/m) Date: 2026-04-08  <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2323.23</td><td>44.96</td><td>74.00</td><td>-29.04</td><td>41.51</td><td>32.32</td><td>5.30</td><td>34.17</td><td>274 178 PEAK</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2323.23	44.96	74.00	-29.04	41.51	32.32	5.30	34.17	274 178 PEAK	Level (dBuV/m) Date: 2026-04-08  <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>105.22</td><td>-----</td><td>-----</td><td>101.55</td><td>32.44</td><td>5.37</td><td>34.14</td><td>274 178 PEAK</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	105.22	-----	-----	101.55	32.44	5.37	34.14	274 178 PEAK
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