



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : moto tag
BRAND NAME : Motorola
MODEL NAME : XT2561-1
FCC ID : IHDT6AB8
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DSS) Spread Spectrum Transmitter
TEST DATE(S) : Sep. 19, 2025 ~ Oct. 21, 2025

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.

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
FR580714B	Rev. 01	Initial issue of report	Nov. 07, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(1)	Number of Channels	$\geq 15\text{Chs}$	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	$\geq 2/3$ of 20dB BW	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	$\leq 0.4\text{sec}$	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	-	Pass	-
3.4	-	99% Bandwidth	-	Pass	-
3.5	15.247(b)(1)	Conducted Output Power	$\leq 125\text{ mW}$	Pass	-
3.6	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	$\leq 20\text{dBc}$	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.99 dB at 12390.00 MHz
-	15.207	AC Conducted Emission	15.207(a)	Not Applicable	1
3.9	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-
Remark1: Powered by a button battery only.					

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/manufacture 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

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	moto tag
Brand Name	Motorola
Model Name	XT2561-1
FCC ID	IHDT6AB8
SN Code	Conducted: N/A Radiation: HMFA6FFS, HMFA6GAQ, HMFA66PP
HW Version	DVT2
SW Version	1.12.0
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT, the differences could be referred to the XT2561-1_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, we choose sample 1 to full test.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2404 MHz ~ 2478 MHz
Number of Channels	72
Maximum Output Power to Antenna	BLE CS ASK 1Mbps : 8.45 dBm(0.0070 W)
99% Occupied Bandwidth	BLE CS ASK 1Mbps : 0.078 MHz
Antenna Type / Gain	Monopole Antenna type with gain -0.7 dBi
Type of Modulation	ASK

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 03CH04-SZ	CN1256	421272

1.7 Test Software

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

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

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.

1.9 Specification of Accessory

Accessories Information				
Battery	Brand Name	Henlimax	Model Name	CR2032



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
BLE CS	2	2404	29	2431	53	2455
	3	2405	30	2432	54	2456
	4	2406	31	2433	55	2457
	5	2407	32	2434	56	2458
	6	2408	33	2435	57	2459
	7	2409	34	2436	58	2460
	8	2410	35	2437	59	2461
	9	2411	36	2438	60	2462
	10	2412	37	2439	61	2463
	11	2413	38	2440	62	2464
	12	2414	39	2441	63	2465
	13	2415	40	2442	64	2466
	14	2416	41	2443	65	2467
	15	2417	42	2444	66	2468
	16	2418	43	2445	67	2469
	17	2419	44	2446	68	2470
	18	2420	45	2447	69	2471
	19	2421	46	2448	70	2472
	20	2422	47	2449	71	2473
	21	2423	48	2450	72	2474
	22	2424	49	2451	73	2475
	26	2428	50	2452	74	2476
	27	2429	51	2453	75	2477
	28	2430	52	2454	76	2478

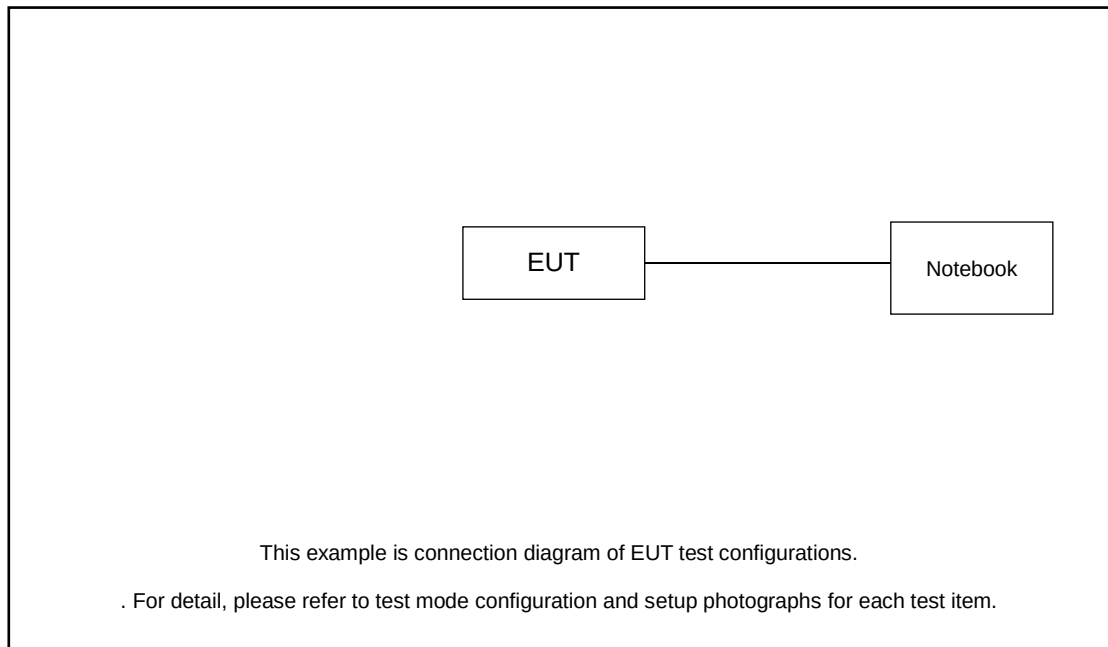
2.2 Test Mode

- 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: 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.

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 / ASK
Conducted TCs	Mode 1: Bluetooth Tx CH02_2404 MHz_ BLE CS ASK(1Mbps)
	Mode 2: Bluetooth Tx CH38_2440 MHz_ BLE CS ASK(1Mbps)
	Mode 3: Bluetooth Tx CH76_2478 MHz_ BLE CS ASK(1Mbps)
Radiated TCs	Mode 1: Bluetooth Tx CH02_2404 MHz_ BLE CS ASK(1Mbps)
	Mode 2: Bluetooth Tx CH38_2440 MHz_ BLE CS ASK(1Mbps)
	Mode 3: Bluetooth Tx CH76_2478 MHz_ BLE CS ASK(1Mbps)

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Thinkpad	Thinkpad E14	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For BLE 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 1.3 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 1.3 + 10 = 11.3 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

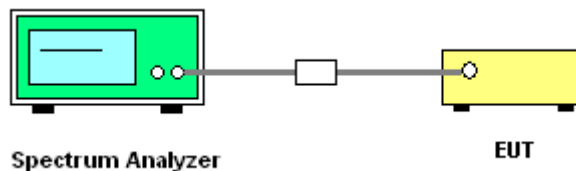
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 7.8.3.
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. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation;
RBW = 300kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup



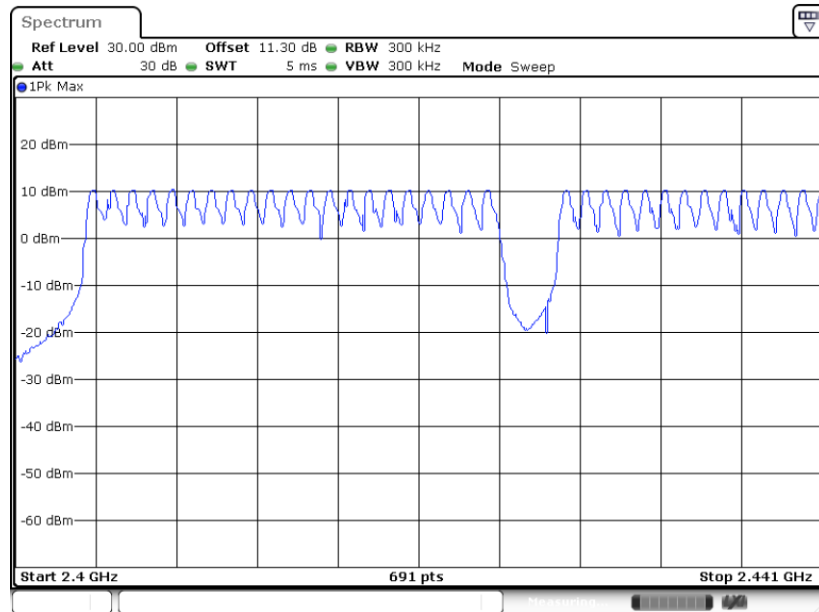
3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

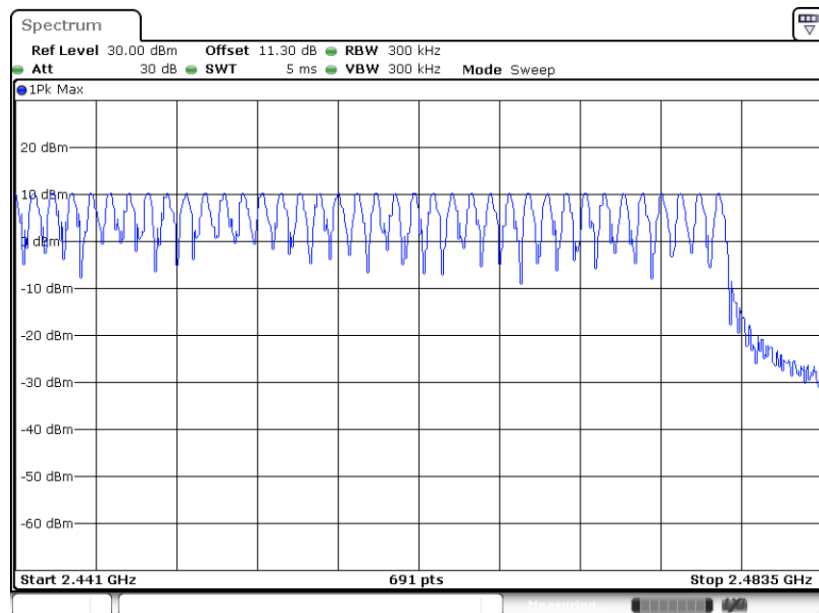


<BLE Channel Sounding ASK (1Mbps)>

Number of Hopping Channel Plot on Channel 02 - 76



Date: 23.SEP.2025 10:37:20



Date: 23.SEP.2025 10:44:07

3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

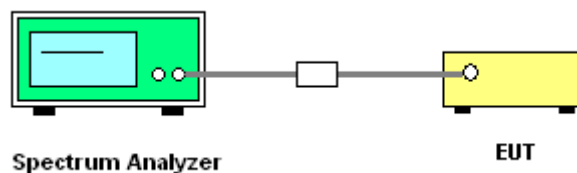
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.2.
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. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels;
RBW = 300kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.2.4 Test Setup



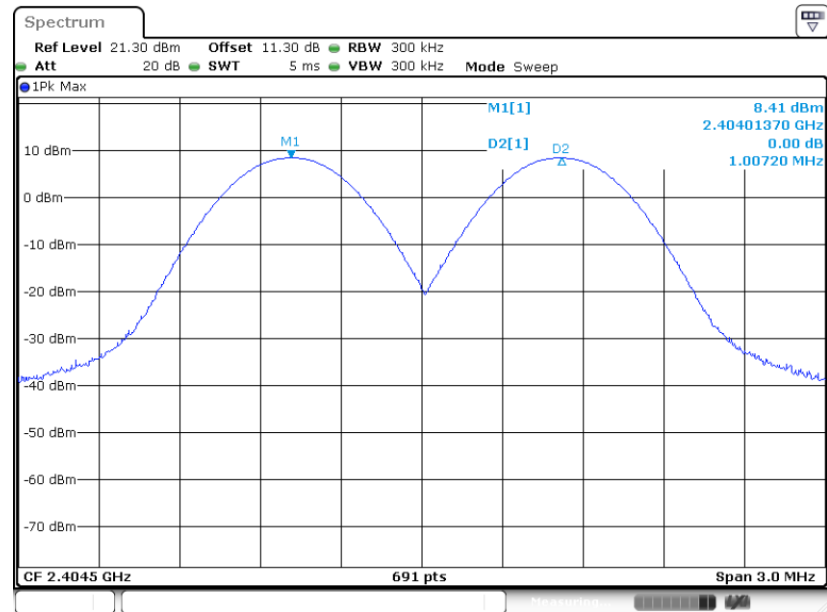
3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.



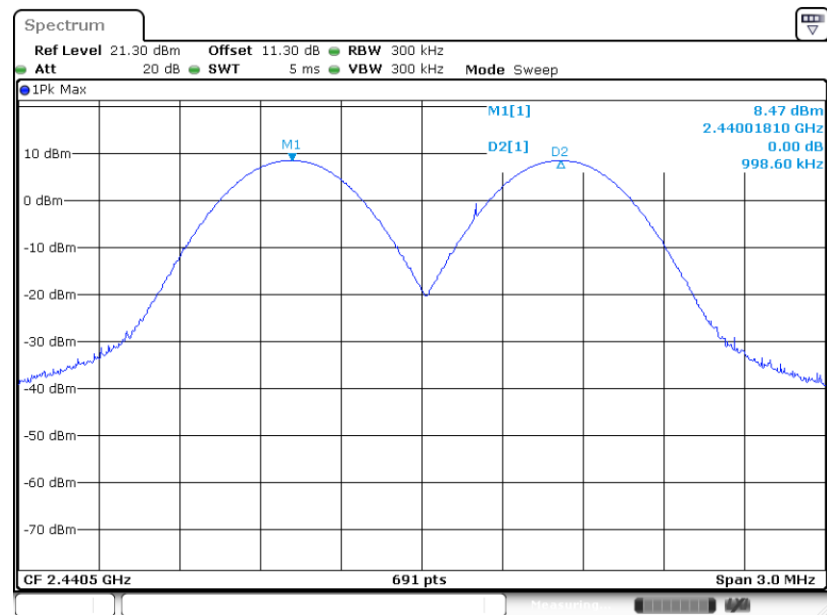
<BLE Channel Sounding ASK (1Mbps)>

Channel Separation Plot on Channel 02



Date: 19.SEP.2025 22:02:31

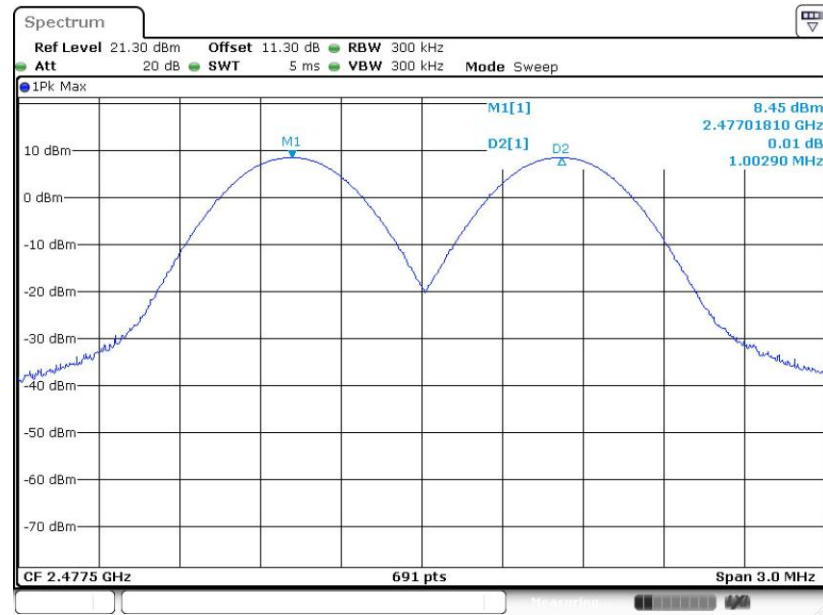
Channel Separation Plot on Channel 38



Date: 19.SEP.2025 22:13:13



Channel Separation Plot on Channel 76



3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

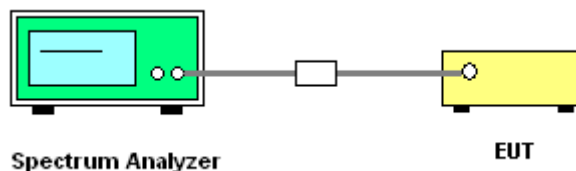
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.4.
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. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 100 kHz; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

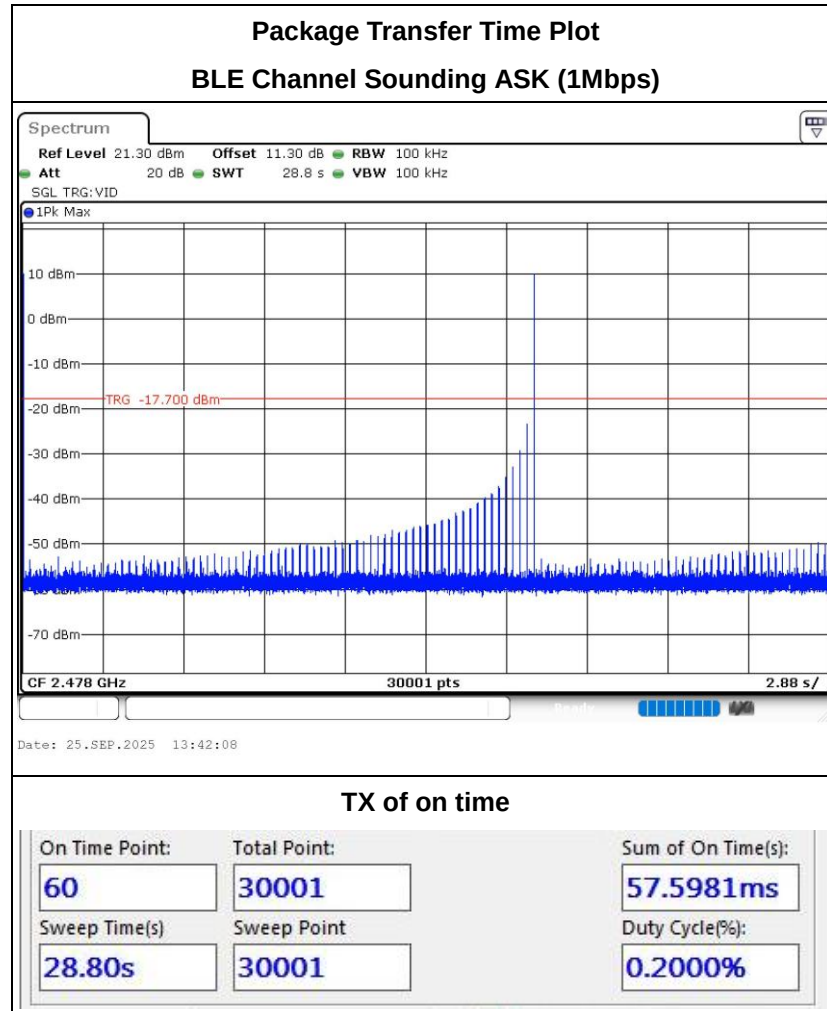
3.3.4 Test Setup





3.3.5 Test Result of Dwell Time

Please refer to Appendix A.



Remark:

1. Dwell Time(s) = 57.5981 ms = 0.058 sec
2. The observation Occupancy time is hopping channel 72 channels
x 400ms = 28.8 sec.

3.4 20dB and 99% Bandwidth Measurement

3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

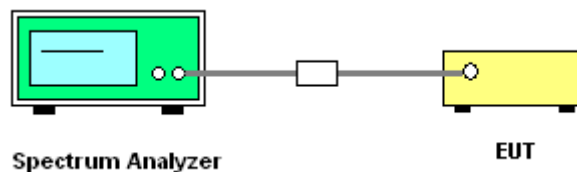
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 6.9.2 and 6.9.3.
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. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;
Sweep = auto; Detector function = peak;
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;
Sweep = auto; Detector function = peak;
Trace = max hold.
6. Measure and record the results in the test report.

3.4.4 Test Setup



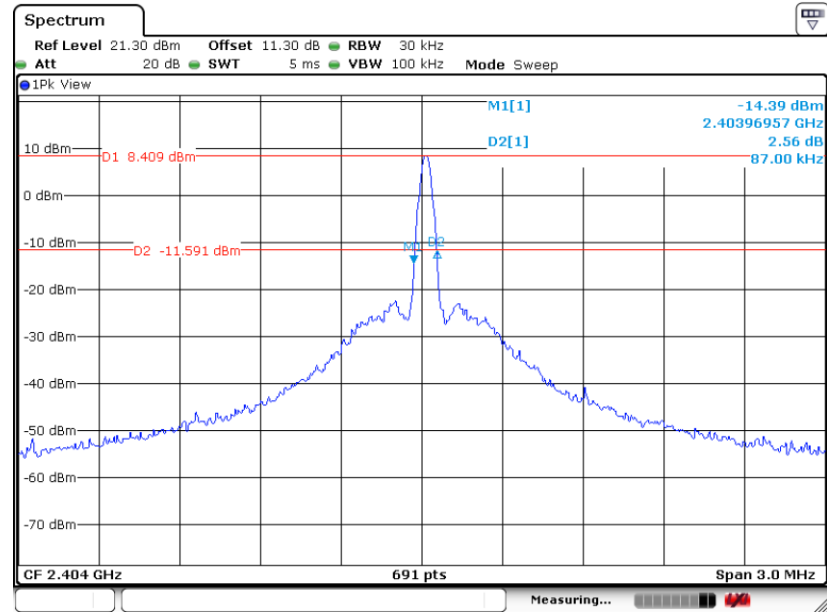
3.4.5 Test Result of 20dB Bandwidth

Please refer to Appendix A.



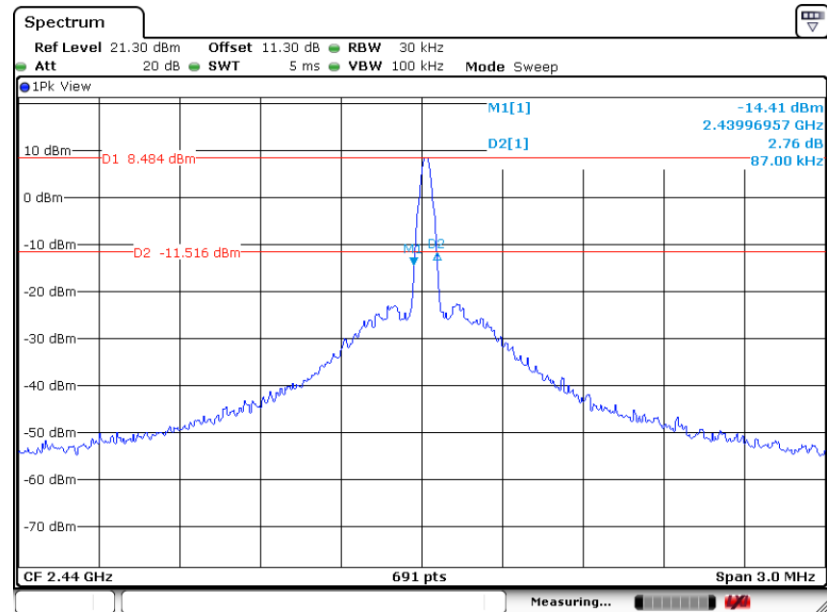
<BLE Channel Sounding ASK (1Mbps)>

20 dB Bandwidth Plot on Channel 02



Date: 19.SEP.2025 21:47:54

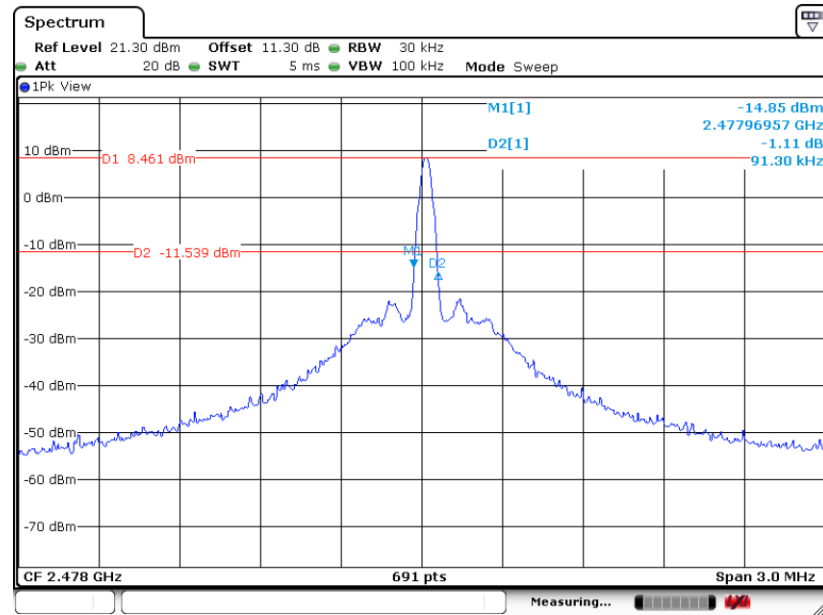
20 dB Bandwidth Plot on Channel 38



Date: 19.SEP.2025 22:10:11



20 dB Bandwidth Plot on Channel 76



Date: 19.SEP.2025 22:15:18

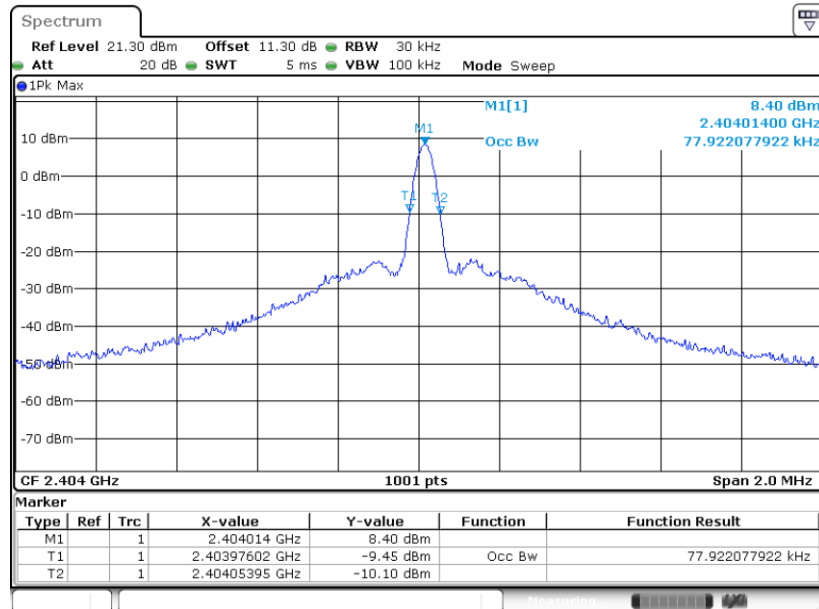


3.4.6 Test Result of 99% Occupied Bandwidth

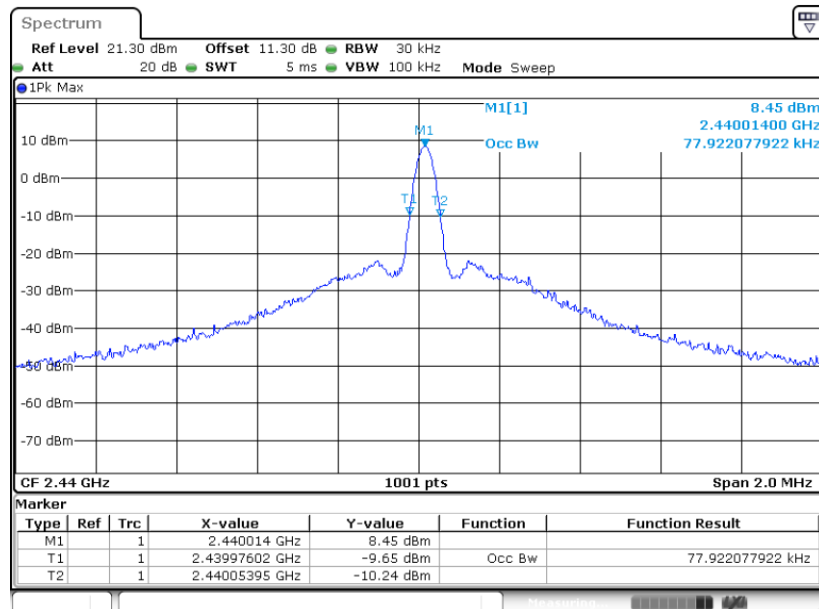
Please refer to Appendix A.

<BLE Channel Sounding ASK (1Mbps)>

99% Occupied Bandwidth Plot on Channel 02

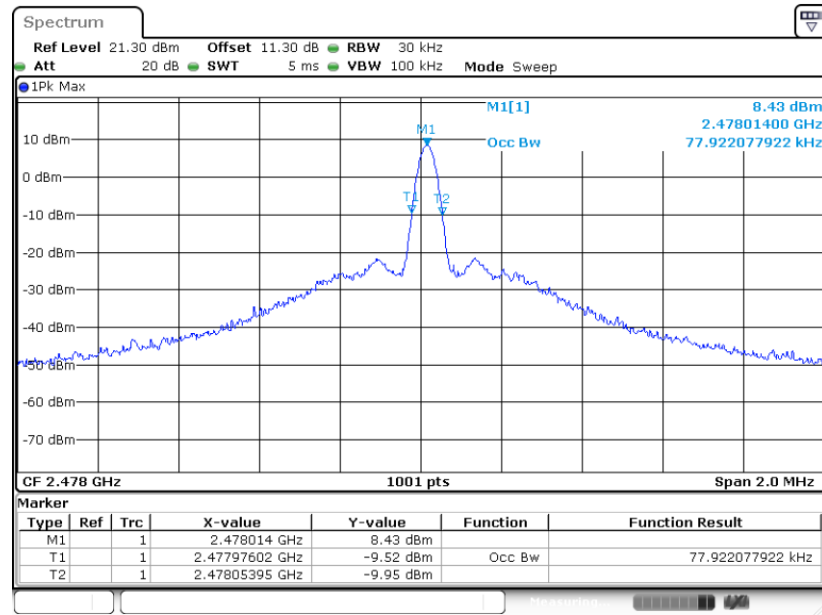


99% Occupied Bandwidth Plot on Channel 38





99% Occupied Bandwidth Plot on Channel 76



Date: 19.SEP.2025 22:15:05

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

3.5 Output Power Measurement

3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. The power limit for 1Mbps, 2Mbps, 3Mbps and AFH modes are 0.125 watts.

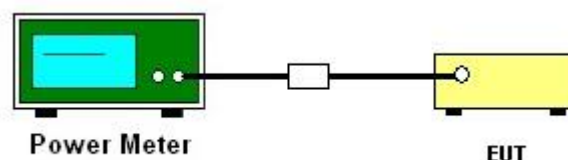
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.5.
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 with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

3.5.4 Test Setup



3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.5.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

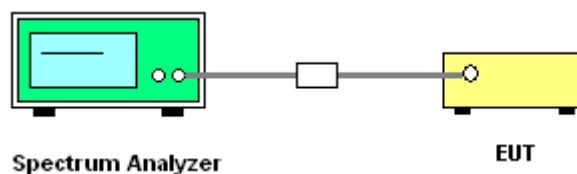
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.7.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100kHz, VBW = 300kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2. and 3.
5. Measure and record the results in the test report.

3.6.4 Test Setup

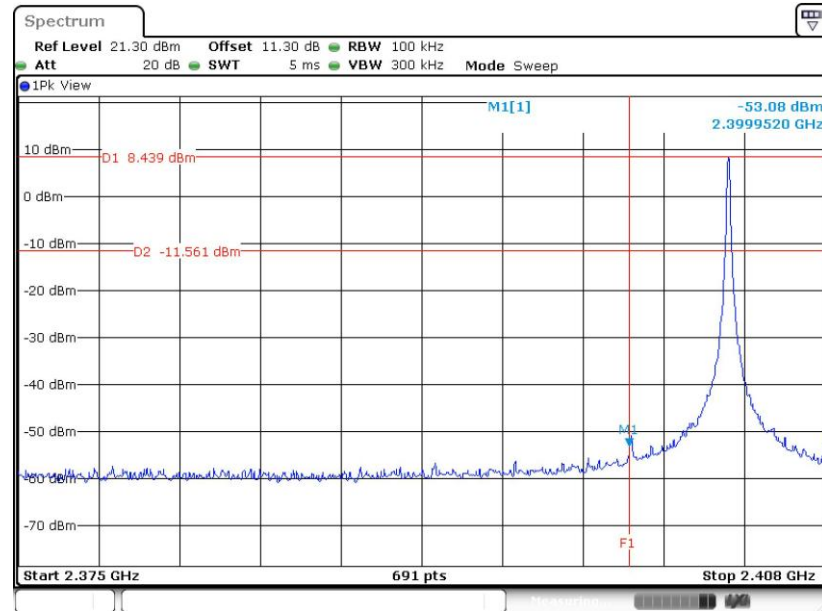




3.6.5 Test Result of Conducted Band Edges

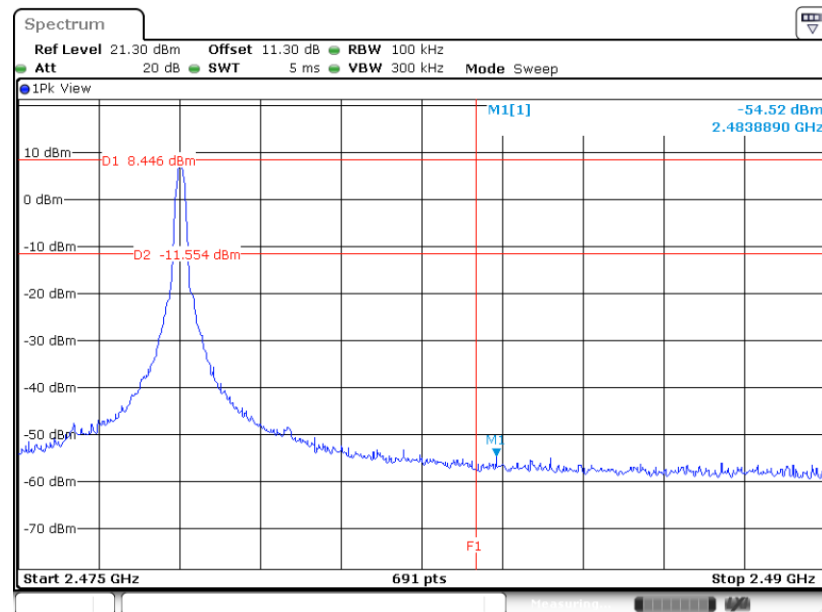
<BLE Channel Sounding ASK (1Mbps)>

Low Band Edge Plot on Channel 02



Date: 19 SEP. 2025 22:07:27

High Band Edge Plot on Channel 76



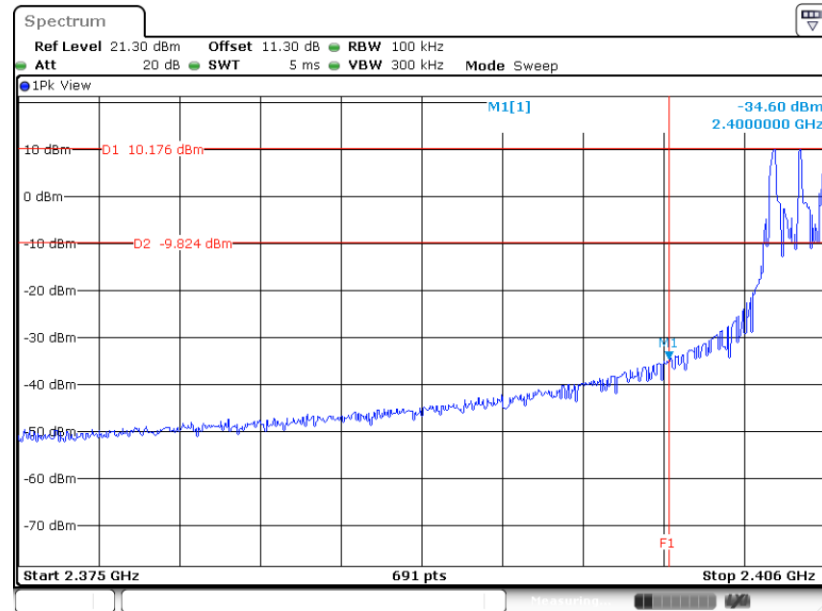
Date: 19 SEP. 2025 22:25:25



3.6.6 Test Result of Conducted Hopping Mode Band Edges

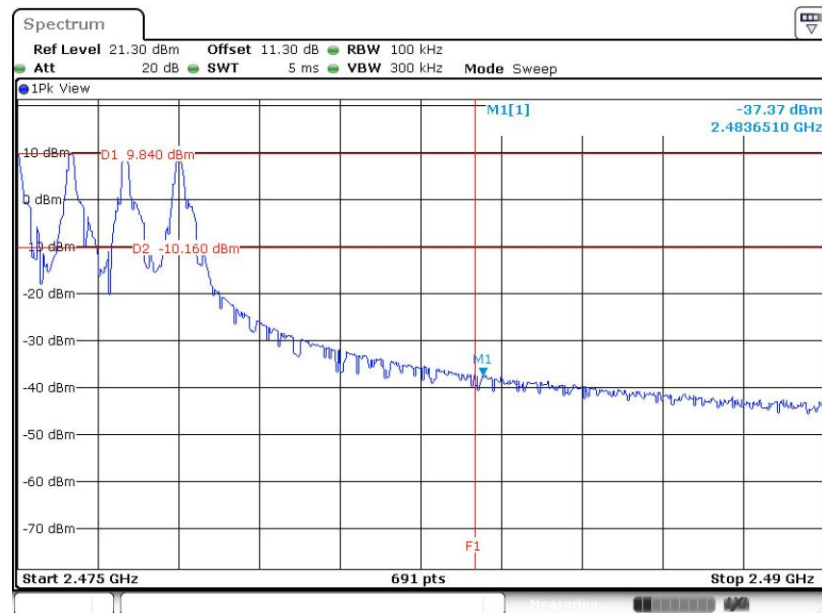
<BLE Channel Sounding ASK (1Mbps)>

Hopping Mode Low Band Edge Plot



Date: 25.SEP.2025 10:09:41

Hopping Mode High Band Edge Plot



Date: 25.SEP.2025 10:25:27

3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

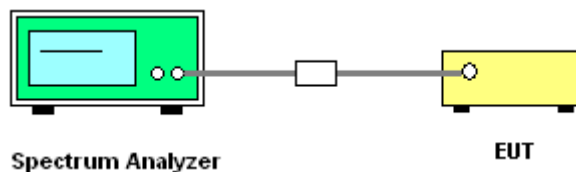
3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 7.8.7.
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 = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
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.

3.7.4 Test Setup

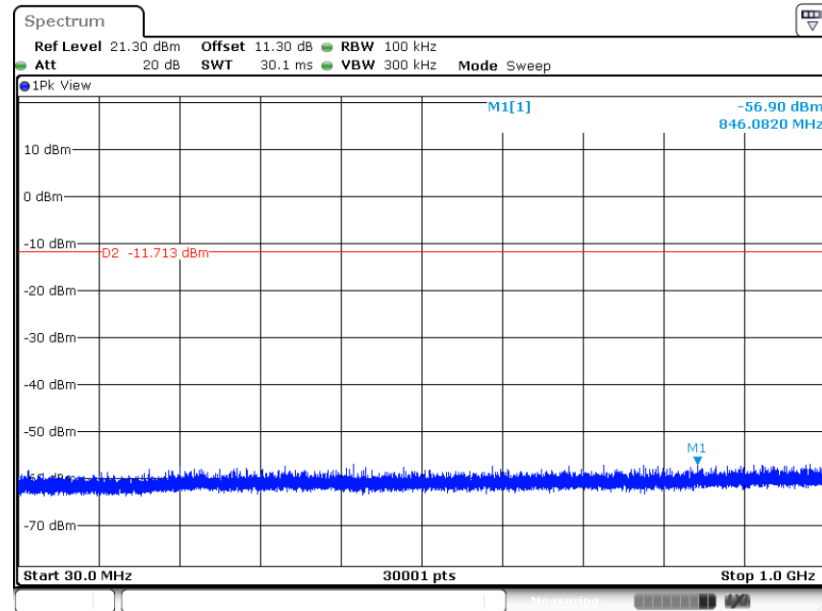




3.7.5 Test Result of Conducted Spurious Emission

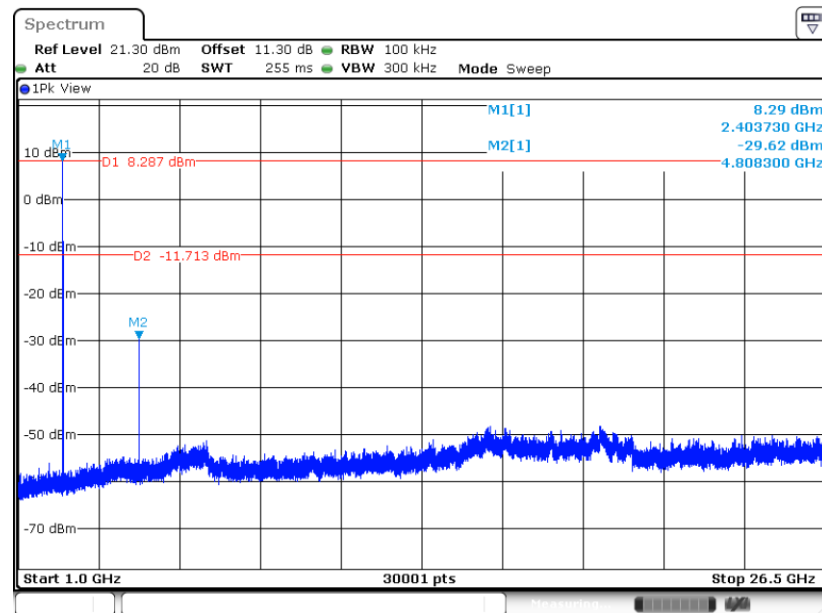
<BLE Channel Sounding ASK (1Mbps)>

CSE Plot on Ch 02



Date: 19 SEP. 2025 21:56:19

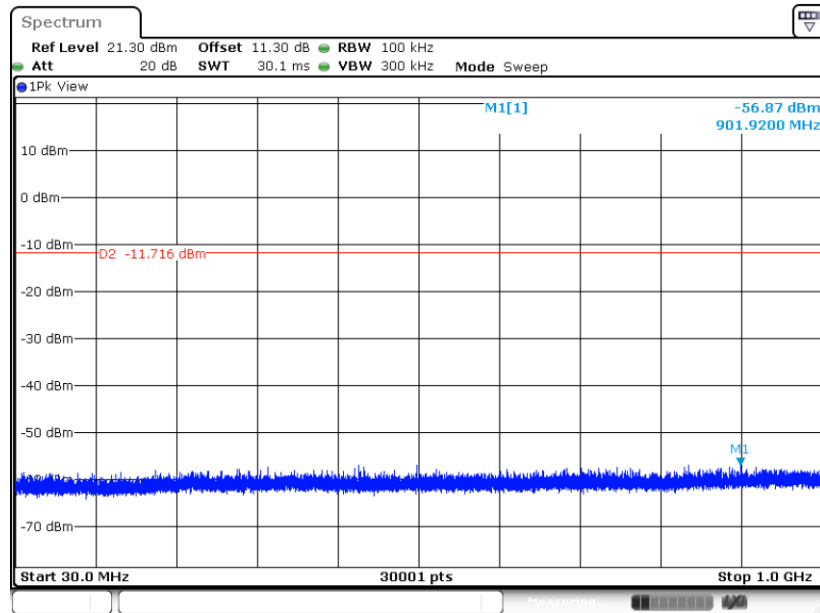
CSE Plot on Ch 02



Date: 19 SEP. 2025 21:49:04

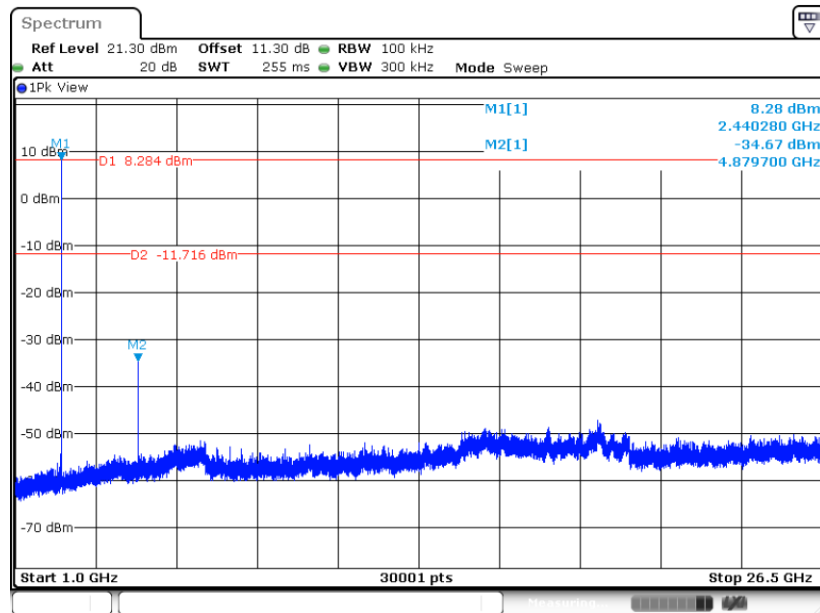


CSE Plot on Ch 38



Date: 19.SEP.2025 22:11:17

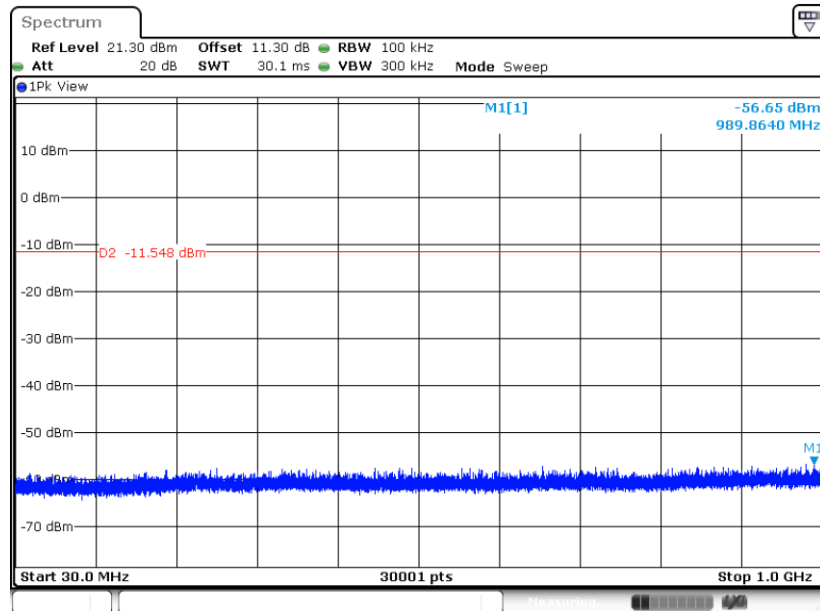
CSE Plot on Ch 38



Date: 19.SEP.2025 22:10:52

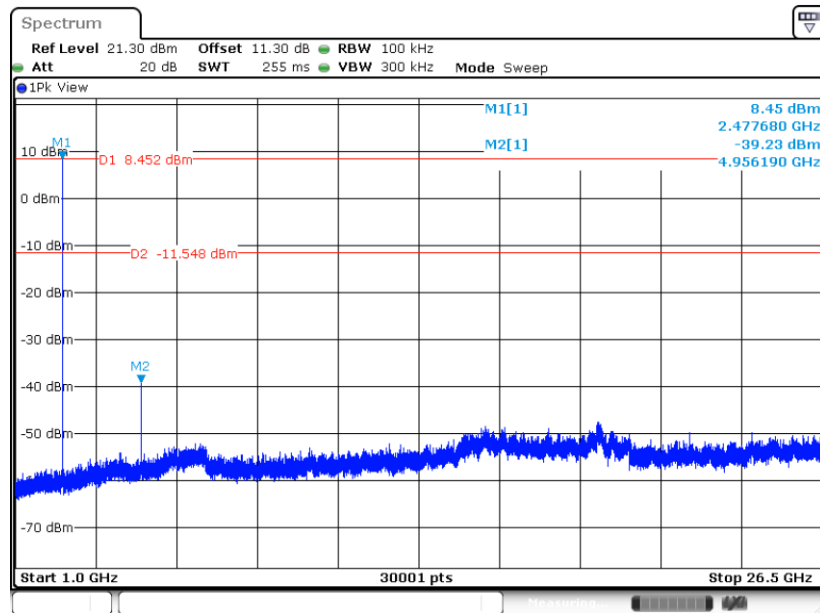


CSE Plot on Ch 76



Date: 19.SEP.2025 22:16:08

CSE Plot on Ch 76



Date: 19.SEP.2025 22:15:44

3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 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. 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

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



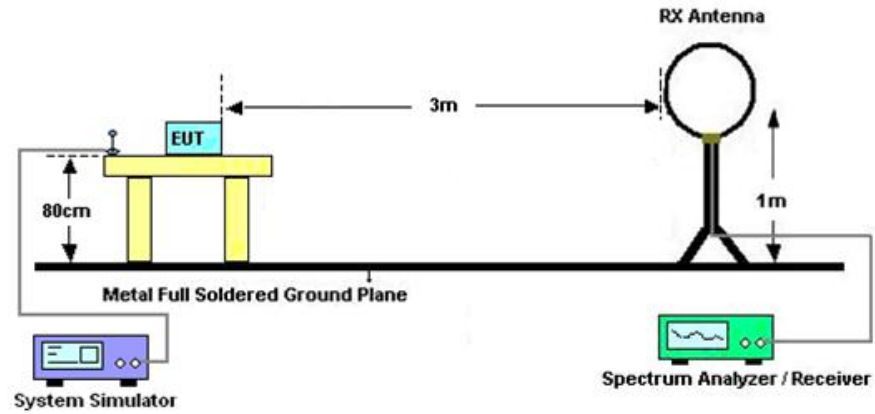
3.8.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. 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.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1 \text{ GHz}$, RBW=1MHz for $f > 1\text{GHz}$; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
7. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
8. 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.
9. 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.

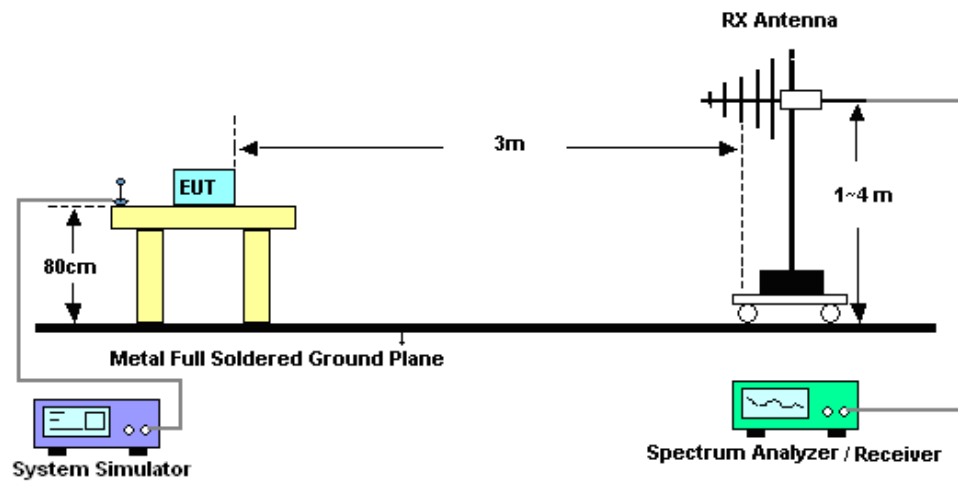
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-25.26dB) derived from $20\log(\text{dwell time}/100\text{ms})$. This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

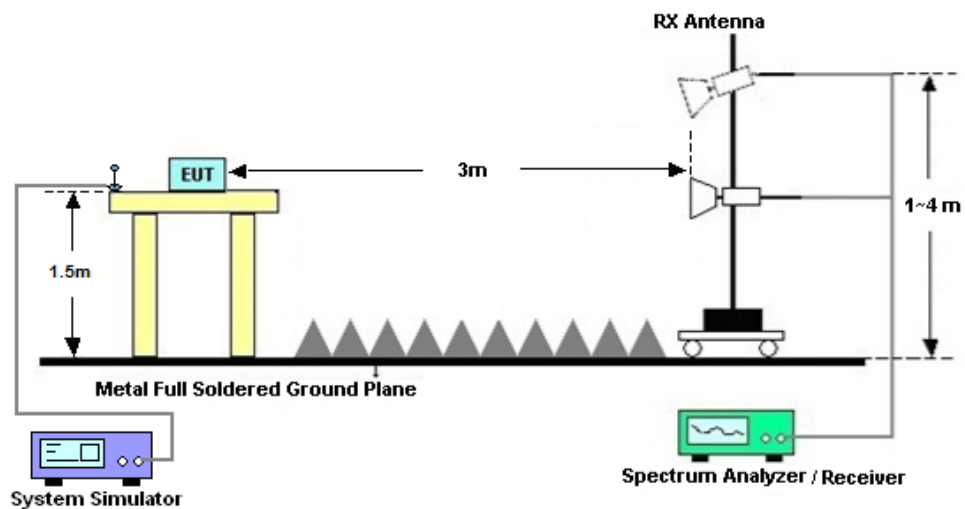
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.8.5 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.

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

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

Please refer to Appendix B.

3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix C.



3.9 Antenna Requirements

3.9.1 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.

3.9.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.9.3 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
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Sep. 19, 2025~ Sep. 25, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Sep. 19, 2025~ Sep. 25, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14, 2024	Sep. 19, 2025~ Sep. 25, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 14, 2024	Sep. 25, 2025~ Oct. 21, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 13, 2025		Oct. 12, 2026	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Sep. 25, 2025~ Oct. 21, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Sep. 25, 2025~ Oct. 21, 2025	Dec. 27, 2025	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May. 09, 2025	Sep. 25, 2025~ Oct. 21, 2025	May. 08, 2026	Radiation (03CH04-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240057	1GHz~18GHz	Jul. 03, 2025	Sep. 25, 2025~ Oct. 21, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2025	Sep. 25, 2025~ Oct. 21, 2025	Jul. 03, 2026	Radiation (03CH04-SZ)
LF Amplifier	EM Electronics	EM330	060773	20MHz~3GHz	Apr. 02, 2025	Sep. 25, 2025~ Oct. 21, 2025	Apr. 01, 2026	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Sep. 25, 2025~ Oct. 21, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 13, 2025		Oct. 12, 2026	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Sep. 25, 2025~ Oct. 21, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Jul. 03, 2025	Sep. 25, 2025~ Oct. 21, 2025	Jul. 02, 2026	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 14, 2024	Sep. 25, 2025~ Oct. 21, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 13, 2025		Oct. 12, 2026	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 25, 2025~ Oct. 21, 2025	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 25, 2025~ Oct. 21, 2025	NCR	Radiation (03CH04-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 Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 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:	Sam Zheng	Temperature:	21~25	°C
Test Date:	2025/9/19~2025/9/25	Relative Humidity:	51~54	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
ASK	1Mbps	1	02	2404	0.087	0.078	1.007	0.0580	Pass
ASK	1Mbps	1	38	2440	0.087	0.078	0.999	0.0580	Pass
ASK	1Mbps	1	76	2478	0.091	0.078	1.003	0.0609	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time (hops)	Sum of on time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	72	60	57.60	0.058	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	Setting
ASK	02	1	8.45	20.97	Pass	8dBm
	38	1	8.32	20.97	Pass	
	76	1	8.06	20.97	Pass	

TEST RESULTS DATA**Average Power Table**
(Reporting Only)

DH	CH.	NTX	Average Power (dBm)	Duty Factor (dB)	Setting
ASK	02	1	8.00	12.81	8dBm
	38	1	7.80	12.81	
	76	1	7.60	12.81	

TEST RESULTS DATA**Number of Hopping Frequency**

Number of Hopping (Channel)	Limits (Channel)	Pass/Fail
72	> 15	Pass



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Wenbo Xiao	Relative Humidity :	48~49%
		Temperature :	24~25°C

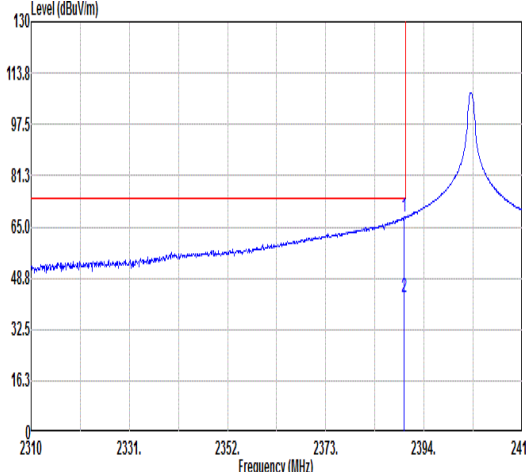
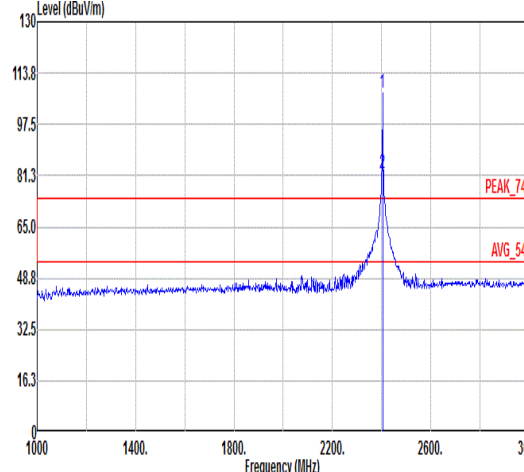
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	BLE CS ASK	02	2404	1M	-	-
Mode 2	2400-2483.5	1	BLE CS ASK	38	2440	1M	-	-
Mode 3	2400-2483.5	1	BLE CS ASK	76	2478	1M	-	-

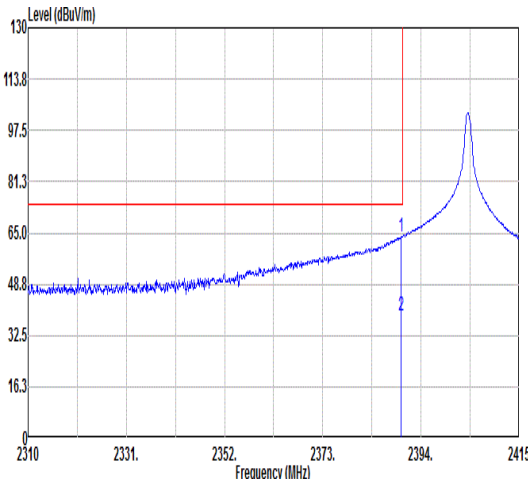
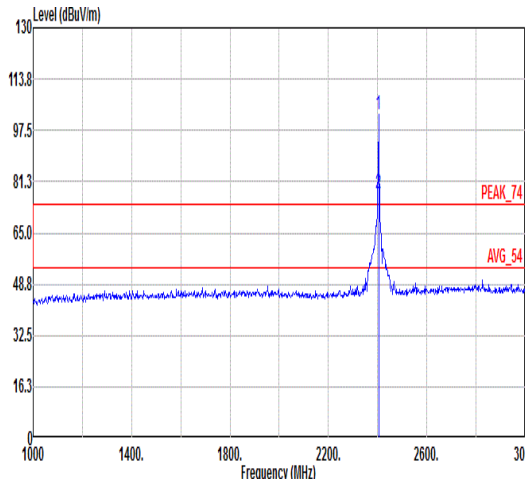
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	BLE CS ASK	02	2389.80	68.02	74.00	-5.98	H	Peak	Pass	Band Edge
	BLE CS ASK	02	12020.00	66.11	74.00	-7.89	V	Peak	Pass	Harmonic
2	BLE CS ASK	38	-	-	-	-	-	-	-	Band Edge
	BLE CS ASK	38	12200.00	69.36	74.00	-4.64	H	Peak	Pass	Harmonic
3	BLE CS ASK	76	2483.52	69.80	74.00	-4.20	H	Peak	Pass	Band Edge
	BLE CS ASK	76	12390.00	70.01	74.00	-3.99	H	Peak	Pass	Harmonic

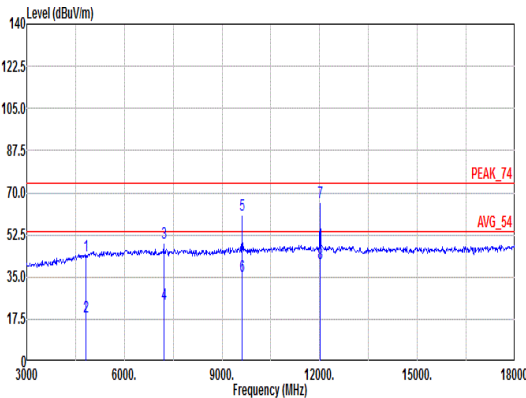
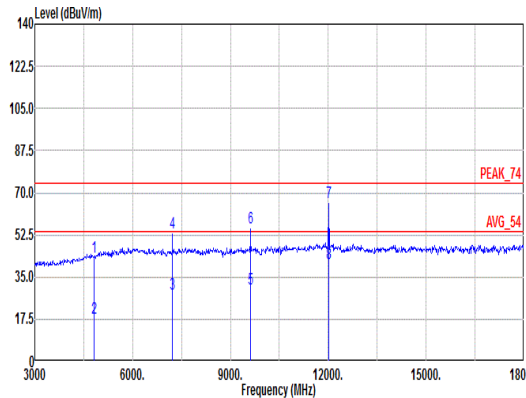


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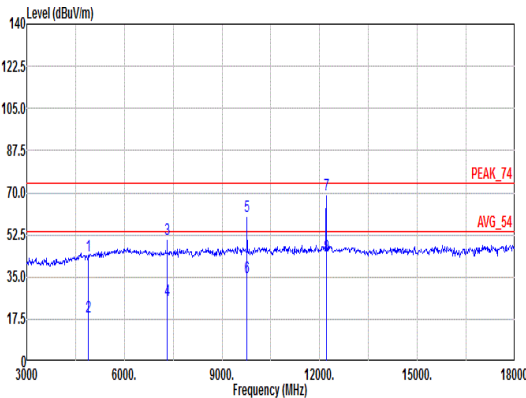
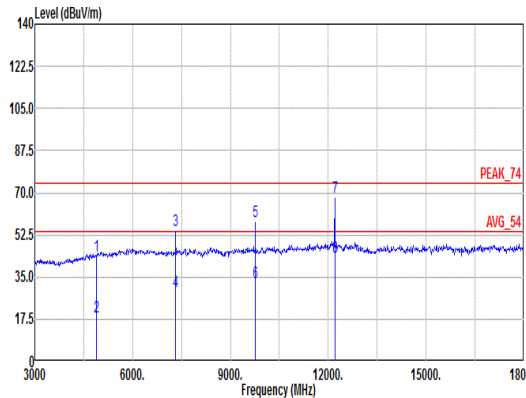


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1	2389.80	63.78	74.00	-10.22	59.14	30.41	6.87	32.64	166	257	Peak																																																																																																										
2	2389.80	38.52	74.00	-35.48	33.88	30.41	6.87	32.64	166	257	Average																																																																																																										
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																											
1	2404.00	102.72	-----	-----	98.06	30.42	6.88	32.64	166	257	Peak																																																																																																										
2	2404.00	77.46	-----	-----	72.80	30.42	6.88	32.64	166	257	Average																																																																																																										

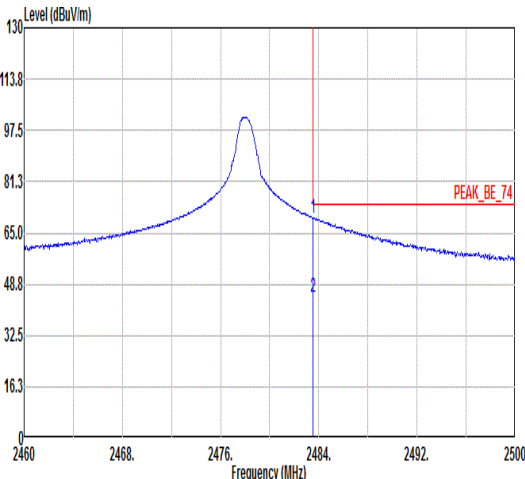
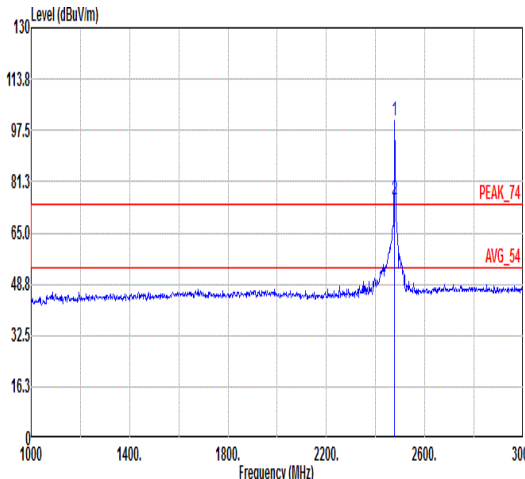


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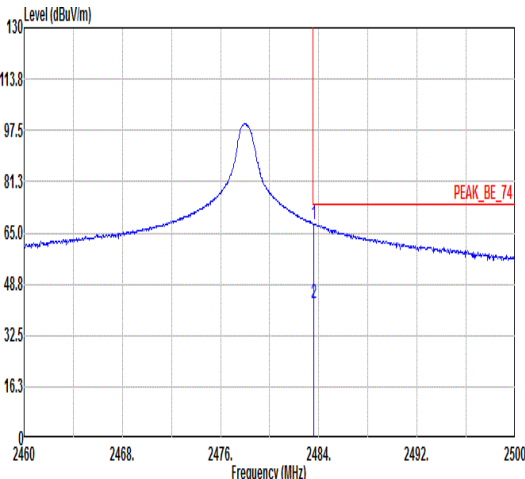
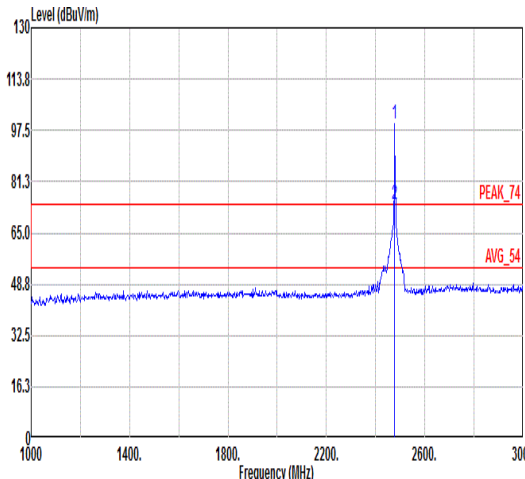


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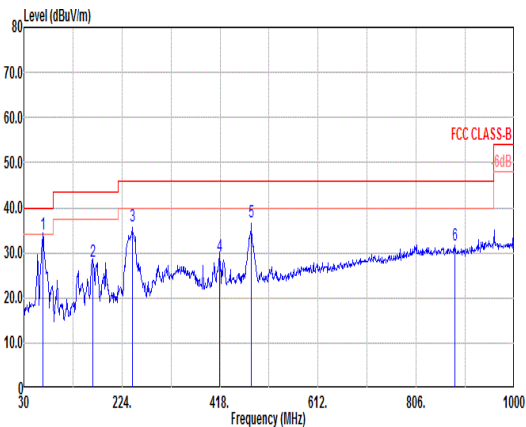
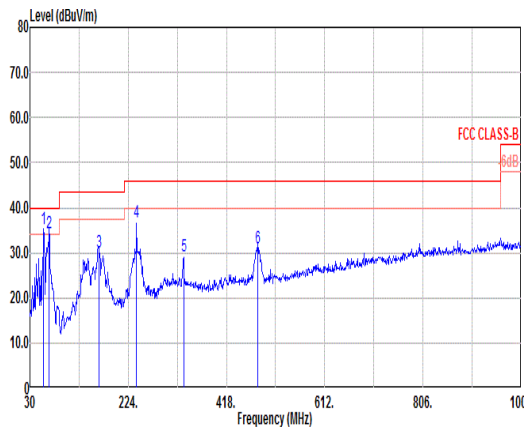


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Preamp		APos		TPos		Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Loss	Factor	cm	deg	cm	deg	1	4956.00	47.73	74.00	-26.27	54.37	35.70	10.33	52.67	100	178	Peak	148	127	Peak	2	4956.00	22.47	54.00	-31.53	29.11	35.70	10.33	52.67	100	178	Average	148	127	Average	3	7434.00	51.79	74.00	-22.21	55.44	36.62	12.00	52.27	114	124	Peak	149	149	Peak	4	7434.00	26.53	54.00	-27.47	30.18	36.62	12.00	52.27	114	124	Average	149	149	Average	5	9912.00	58.14	74.00	-15.86	57.87	37.86	13.86	51.45	252	188	Peak	126	299	Peak	6	9912.00	32.88	54.00	-21.12	32.61	37.86	13.86	51.45	252	188	Average	126	299	Average	7	12390.00	70.01	74.00	-3.99	66.30	38.76	15.63	50.68	100	290	Peak	100	230	Peak	8	12390.00	44.75	54.00	-9.25	41.04	38.76	15.63	50.68	100	290	Average	100	230	Average	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th colspan="2">Ant</th><th colspan="2">Cable Preamp</th><th colspan="2">APos</th><th colspan="2">TPos</th><th 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Preamp		APos		TPos		Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Loss	Factor	cm	deg	cm	deg	1	4956.00	49.04	74.00	-24.96	55.68	35.70	10.33	52.67	148	127	Peak	148	127	Peak	2	4956.00	23.78	54.00	-30.22	30.42	35.70	10.33	52.67	148	127	Average	148	127	Average	3	7434.00	54.40	74.00	-19.60	58.05	36.62	12.00	52.27	100	149	Peak	149	149	Peak	4	7434.00	29.14	54.00	-24.86	32.79	36.62	12.00	52.27	100	149	Average	149	149	Average	5	9912.00	57.03	74.00	-16.97	56.76	37.86	13.86	51.45	126	299	Peak	126	299	Peak	6	9912.00	31.77	54.00	-22.23	31.50	37.86	13.86	51.45	126	299	Average	126	299	Average	7	12390.00	68.35	74.00	-5.65	64.64	38.76	15.63	50.68	100	230	Peak	100	230	Peak	8	12390.00	43.09	54.00	-10.91	39.38	38.76	15.63	50.68	100	230	Average	100	230
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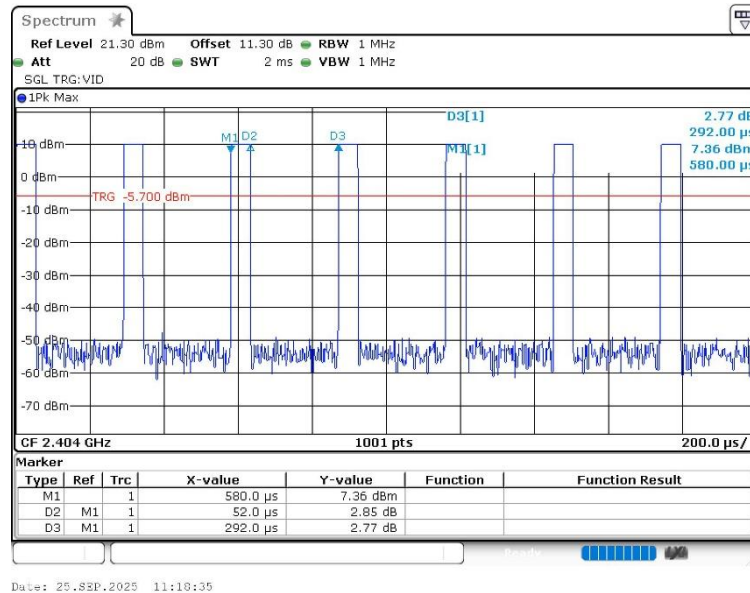
Mode	4	
	Above 18GHz (Worst case mode)	
	2400-2483.5_Bluetooth-LE	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	Horizontal Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a noisy signal with a peak level of 74 dBuV/m and an average level of 54 dBuV/m. The frequency range is from 18000 to 26000 MHz.	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a noisy signal with a peak level of 74 dBuV/m and an average level of 54 dBuV/m. The frequency range is from 18000 to 26000 MHz.



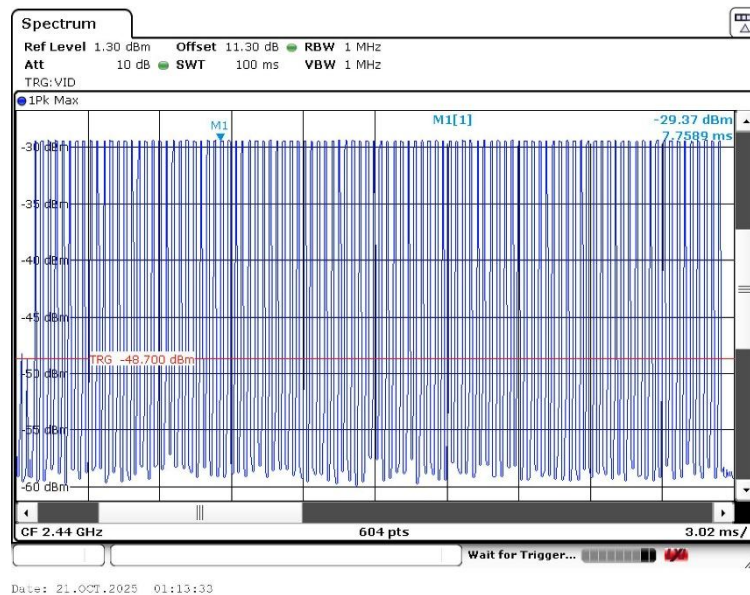
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1	57.16	35.19	40.00	-4.81	46.25	19.88	0.76	31.70	---	Peak																																																																																																																																																																																				
2	67.83	34.39	40.00	-5.61	47.02	18.15	0.82	31.60	---	Peak																																																																																																																																																																																				
3	165.80	30.23	43.50	-13.27	41.22	19.27	1.31	31.57	---	Peak																																																																																																																																																																																				
4	240.49	36.69	46.00	-9.31	48.53	18.05	1.61	31.50	---	Peak																																																																																																																																																																																				
5	333.61	29.29	46.00	-16.71	38.25	20.65	1.92	31.53	---	Peak																																																																																																																																																																																				
6	480.08	31.06	46.00	-14.94	36.54	23.54	2.28	31.30	---	Peak																																																																																																																																																																																				

Appendix C. Duty Cycle Plots

BLE CS ASK on time (One Pulse) Plot



BLE CS ASK on time (Count Pulses) Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $105 * 0.052 / 100 = 5.46 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -25.26 \text{ dB}$