

Japan Test Report

Report No: WD-RJ-R-250266-B0

Product Name : Audio Device
Model Name : ACVC
Applicant : inMusic Brands, Inc.
Received Date : Jun. 03, 2025
Tested Date : Jun. 20, 2025 ~ Sep. 15, 2025
Applicable Standard : MIC notice 88 Appendix 43 Article 2 Paragraph 1 of Item 19



Wendell Industrial Co., Ltd
Wendell EMC & RF Laboratory

Caution:

This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of Wendell Industrial Co., Ltd..

Test Report

Issued Date: September 15, 2025

Project No.: 25Q043004

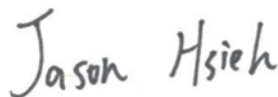
Product Name	Audio Device
Trade Name	AKAI PROFESSIONAL
Model Name	ACVC
Applicant	inMusic Brands, Inc.
Manufacturer	inMusic Brands, Inc.
EUT Rated Voltage	AC 100 ~ 240V / 50 or 60Hz
EUT Test Voltage	AC 100V / 50Hz
EUT Supports Radios Application	WLAN 802.11a/b/g WLAN 802.11n (HT20/HT40) WLAN 802.11ac(VHT20/40/80) and ax(HE20/40/80) Bluetooth BR/EDR/LE
Applicable Standard	MIC notice 88 Appendix 43 Article 2 Paragraph 1 of Item 19
Test Result	Complied

Documented :



(Specialist / Emma Lu)

Technical Engineer :



(Section Manager / Jason Hsieh)

Approved :



(Project Manager / Gary Wu)

Table of Contents

Document Revision History	5
Summary of Test Result	6
1 Generation Information	7
1.1 Applicant	7
1.2 Manufacturer	7
1.3 Description of Equipment under Test	7
1.4 Antenna List	8
1.5 Channel List	8
1.6 Use Cable Loss	8
1.7 Test Software and Test Mode	9
1.8 RF and IF section must be tamper requirement	10
1.9 Voltage Change	11
1.10 Test Facility	12
1.11 Measurement Uncertainty	12
1.12 List of Test Equipment	13
1.13 EMI Reduction Method During Compliance Testing	13
2 Test Result	14
2.1 Antenna Power & Antenna Power Tolerance	14
2.1.1 Limit	14
2.1.2 Test Setup	14
2.1.3 Test Procedure	14
2.1.4 Test Result	15
2.2 Frequency Tolerance	17
2.2.1 Limit	17
2.2.2 Test setup	17
2.2.3 Test Procedure	17
2.2.4 Test Result	18
2.3 Occupied Bandwidth	22
2.3.1 Limit	22
2.3.2 Test Setup	22
2.3.3 Test Procedure	22
2.3.4 Test Result	23
2.4 Unwanted Emission Strength	27
2.4.1 Limit	27
2.4.2 Test Setup	27
2.4.3 Test Procedure	27
2.4.4 Test Result	28
2.5 Secondary Radiated Emission Strength	42
2.5.1 Limit	42
2.5.2 Test Setup	42
2.5.3 Test Procedure	42
2.5.4 Test Result	43
2.6 Interference Prevention Function	49
2.6.1 Limit	49
2.6.2 Test Setup	49
2.6.3 Test Procedure	49
2.6.4 Test Result	50

Attachment 1: Photographs of the Test Configuration	51
Attachment 2: Photographs of EUT Detailed	

Document Revision History

Report No.	Issue date	Description
WD-RJ-R-250266-B0	September 15, 2025	Initial report

Summary of Test Result

Test Items	Result
Antenna Power	Pass
Antenna Power Tolerance	Pass
Antenna Absolute Gain	Pass
EIRP	Pass
Frequency Tolerance	Pass
Unwanted Emission Strength	Pass
Occupied Bandwidth	Pass
Spreading Bandwidth	Pass
Secondary Radiated Emission Strength	Pass
Interference Prevention Function	Pass

1 Generation Information

1.1 Applicant

inMusic Brands, Inc.
200 Scenic View Drive, Cumberland, RI 02864, U.S.A.

1.2 Manufacturer

inMusic Brands, Inc.
200 Scenic View Drive, Cumberland, RI 02864, U.S.A.

1.3 Description of Equipment under Test

Product Name	Audio Device
Model No.	ACVC
HW Version	ACVC
FW Version	V.2
MAC Address	9C:B8:B4:5F:1F:83
Frequency Range	2402 ~ 2480MHz
Number of Channels	40
Data Rate	1Mbps 、 2Mbps 、 500 kbps(S=2) 、 125kbps(S=8)
Type of Modulation	GFSK
Antenna Information	Refer to the table “Antenna List”
Declared Antenna Power	BLE: 4.00 mW

The EUT uses following adapter.

Trade Name	SUNNY ELECTRONICS CORP.
Model No.	SYS1548-6519-T3
Input Power	AC 100-240V~,1.5A MAX, 50-60Hz
Output Power	DC 19V / 3.42 A
Power Line	Non-shielded, Non-Core, 1.5m

1.4 Antenna List

No.	Manufacturer	Model No.	Antenna Type	Peak Gain
1	Brito Technology	OTDB1EM60-I0350	PCB Antenna	2 dBi for 2.4GHz

1.5 Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	*2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	*2480

Note: Frequency remarked * are selected to perform test.

1.6 Use Cable Loss

Frequency (MHz)	Cable Loss (dBm)
30 ~ 1000	0.38
1000 ~ 2400	0.57
2400 ~ 2500	0.58
2500 ~ 12500	2.28
12500 ~ 26000	8.91

Note : Cable Loss = Signal Generation Output Value - Power Meter Reading Value.

1.7 Test Software and Test Mode

(1) Parameters of test software setting

The RF Antenna power selection is for the setting of RF Antenna power expected by the customer and is going to be fixed on the firmware of the final end product.

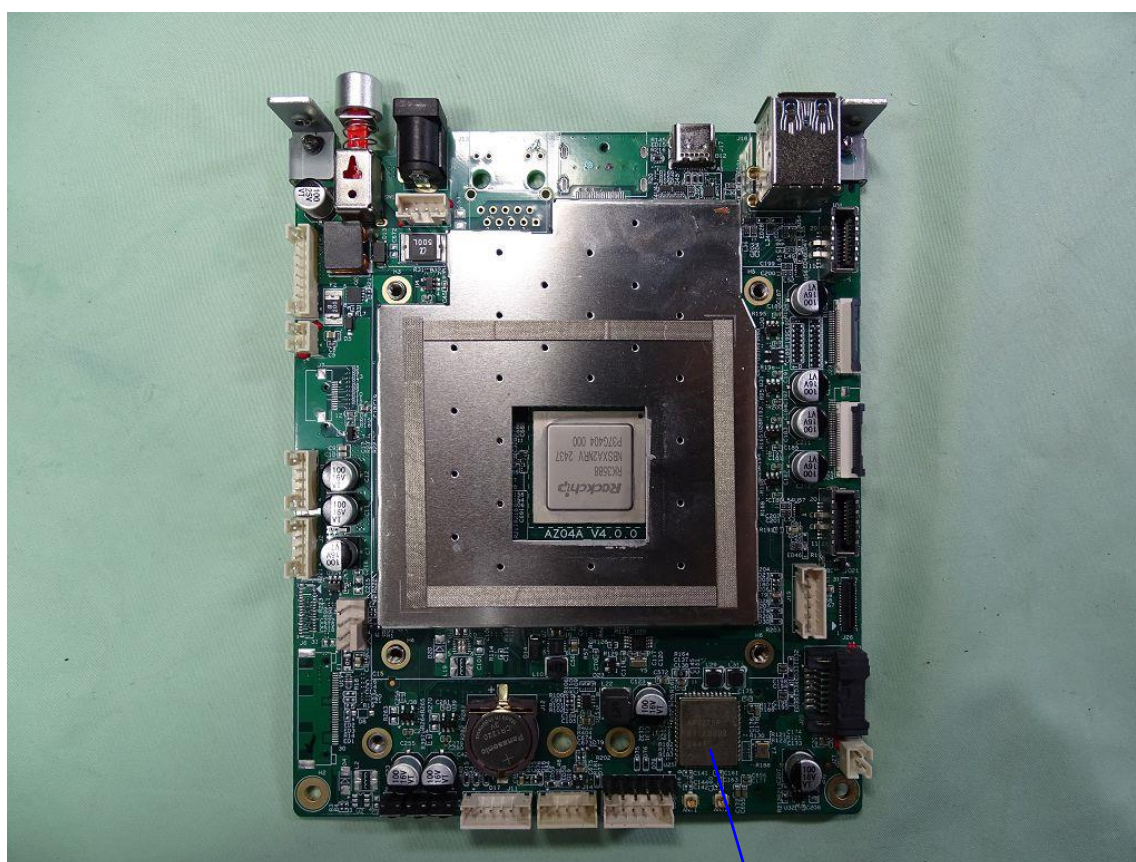
Test Software	PuTTY Release 0.60		
Type of Modulation	Channel	Frequency (MHz)	Set Value
GFSK(1Mbps)	00	2402	DEF
	39	2480	DEF
GFSK(2Mbps)	00	2402	DEF
	39	2480	DEF

(2) Test Mode

Mode 1 : Transmit BLE(1Mbps)
Mode 2 : Transmit BLE(2Mbps)
Mode 3 : Receiver BLE(1Mbps)
Mode 4 : Receiver BLE(2Mbps)

1.8 RF and IF section must be tamper requirement

Requirement	Comments	Result
RF, IF and Modulation section must be tamper	☒ Use Shielding case ☐ Use Unique screw ☐ Use By ultrasonic ☐ Use Adhesive ☐ Use Ball Grid Array (BGA)	Complied
	☐ RF module/Chip pin >20, Chip pins distance <1.5mm	--

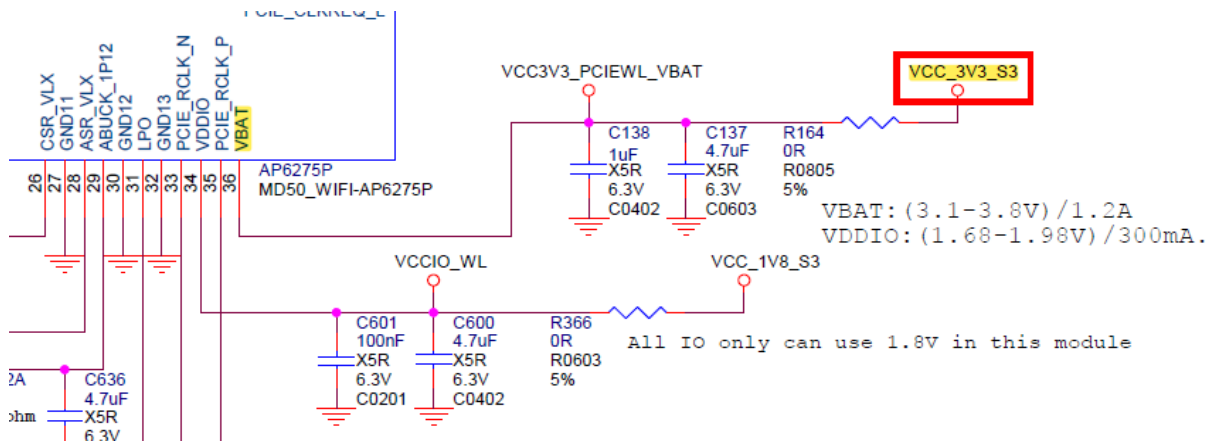


RF Module

1.9 Voltage Change

Input Voltage (V)		Measured Result (V)	Difference (%)	Limit (%)	Result
Low	90.0	3.297	0.06	$\leq \pm 1$	Complied
Normal	100.0	3.299	--	--	--
High	110.0	3.299	0.00	$\leq \pm 1$	Complied

Note : When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cases were done under the normal supply voltage.



1.10 Test Facility

Items	Required (JIS Z8703)	Actual
Temperature (°C)	20 、 23 、 25	25
Humidity (% RH)	50 、 65	65
Barometric pressure (mbar)	860 ~ 1060	950 ~ 1010

Description: Accredited by TAF

Accredited Number: 2965

Issued by: Wendell Industrial Co., Ltd

Company Address: 6F/6F-1, No.188, Baoqiao Rd., Xindian Dist.,
New Taipei City 23145, Taiwan R.O.C

Test Lab: Wendell EMC & RF Laboratory

Lab Address: 5F-1, No.188, Baoqiao Rd., Xindian Dist.,
New Taipei City 23145, Taiwan R.O.C

Test Location: No. 119, Wugong 3rd Rd., Wugu Dist.,
New Taipei City 248, Taiwan (R.O.C.)

1.11 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence (level based on a coverage factor K=2)

Measurement Project	Expanded Uncertainty
Unwanted Emission Strength Measurement	± 1.4 dB
RF Power, Conducted	± 1.3 dB
Occupied Bandwidth	± 2.4 %
Power Density	± 1.2 dB
Duty Cycle	± 0.9 %
Frequency Stability	± 0.068 ppm
DC Power Supply	± 2.1 %
Temperature	± 0.58 °C
Humidity	± 3.3 %

Note: Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

1.12 List of Test Equipment

For Conducted measurements / RF Conducted Measurement Room

Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Calibration Body	Calibration Method
Spectrum analyzer	Keysight	N9010A	SG50420005	2025/08/14	2026/08/13	ETC	(c)
Power Divider	MVE	MVE8546	170826003	2024/08/10	2026/08/09	ETC	(c)
Power Splitter	MVE	MVE8547	170302047	2024/08/08	2026/08/07	ETC	(c)
DC Power Supply	GW INSTEK	GPC-3060D	GER817636	2025/08/05	2026/08/04	ETC	(c)
Multimeter	UNI-T	UT61E+	C242358437	2024/09/23	2026/09/22	TAI YI	(c)
Wideband Peak Power Meter	Anritsu	ML2495A	1733007	2024/09/05	2025/09/04	ITRI	(c)
Pulse Power Sensor + Precision Adaptor	Anritsu	MA2411B	1726022	2024/09/05	2025/09/04	ITRI	(c)

Remark:

1. All equipments are calibrated every one year.
2. (a) Calibration conducted by the National Institute of Information and Communications Technology(NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
 - (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
 - (c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated agency under Article 102-18 paragraph (1).
 - (d) Calibration conducted by using other equipment that listed above from a) to c).

1.13 EMI Reduction Method During Compliance Testing

No modification was made during testing.

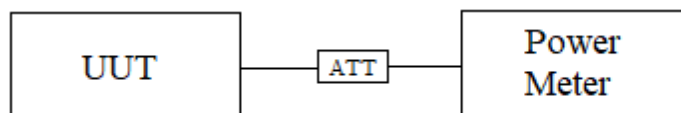
2 Test Result

2.1 Antenna Power & Antenna Power Tolerance

2.1.1 Limit

Item	Limit
Antenna Power	$\leq 3\text{mW/MHz}$; FHSS (Compound method with DSSS or OFDM) $\leq 10\text{mW/MHz}$; DSSS, OFDM ($\text{OBW} \leq 26 \text{ MHz}$) $\leq 5\text{mW/MHz}$; OFDM ($\text{OBW} = 26 - 40 \text{ MHz}$) $\leq 10\text{mW}$; Other Digital methods
Antenna Power Tolerance	+ 20%
EIRP	$\leq 6.91 - 16.91 \text{ dBm/MHz}$; FHSS (Compound method with DSSS or OFDM) $\leq 12.14 - 22.14 \text{ dBm/MHz}$; DSSS, OFDM ($\text{OBW} \leq 26 \text{ MHz}$) $\leq 9.13 - 19.13 \text{ dBm/MHz}$; OFDM ($\text{OBW} = 26 - 40 \text{ MHz}$) $\leq 12.14 - 22.14 \text{ dBm}$; Other Digital methods
Antenna Absolute Gain	$\leq 12.14 \text{ dBi}$ (When an E.I.R.P. is less than a limit, the shortage shall be compensated for by the gain of the transmitting antenna.)
Note: OBW = Occupied Bandwidth.	

2.1.2 Test Setup



2.1.3 Test Procedure

Test method: According to Notification No. 88 of MIC, 2004, Annex 43(Antenna Power Tolerance)

Antenna Power (mW) = Total Output Power (mW)

Connect a high-frequency power meter to the output of the dummy load (attenuator) and measure the total power.

2.1.4 Test Result

Product : Audio Device
Test Item : Antenna Power & EIRP
Test Mode : Mode 1 : Transmit BLE(1Mbps)
Test Voltage : 100V

Frequency (MHz)	Antenna Power			Limit		Result
	dBm	mW	%	mW	%	
2402	5.869	3.86	-3.43	≤ 10	+20	Pass
2480	4.232	2.65	-33.76	≤ 10	+20	Pass

Note :

- (1) Antenna Power = Reading value + cable loss
(2) Total % = (Antenna power – Declared Antenna Power) / Declared Antenna Power * 100%

Frequency (MHz)	Total Antenna Power		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
	mW	dBm				
2402	3.86	5.87	2.00	7.87	≤ 12.14	Pass
2480	2.65	4.23	2.00	6.23	≤ 12.14	Pass

Note :

- (1) Antenna Gain = Max Antenna Gain
(2) EIRP = Total Antenna Power + Antenna Gain

Product : Audio Device
Test Item : Antenna Power & EIRP
Test Mode : Mode 2 : Transmit BLE(2Mbps)
Test Voltage : 100V

Frequency (MHz)	Antenna Power			Limit		Result
	dBm	mW	%	mW	%	
2402	6.285	4.25	6.28	≤ 10	+20	Pass
2480	4.204	2.63	-34.18	≤ 10	+20	Pass

Note :

- (1) Antenna Power = Reading value + cable loss
(2) Total % = (Antenna power – Declared Antenna Power) / Declared Antenna Power * 100%

Frequency (MHz)	Total Antenna Power		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
	mW	dBm				
2402	4.25	6.29	2.00	8.29	≤ 12.14	Pass
2480	2.63	4.20	2.00	6.20	≤ 12.14	Pass

Note :

- (1) Antenna Gain = Max Antenna Gain
(2) EIRP = Total Antenna Power + Antenna Gain

2.2 Frequency Tolerance

2.2.1 Limit

Frequency tolerance shall be ± 50 ppm.

2.2.2 Test setup



2.2.3 Test Procedure

Test method: According to Notification No. 88 of MIC, 2004, Annex 43(Frequency Tolerance)

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

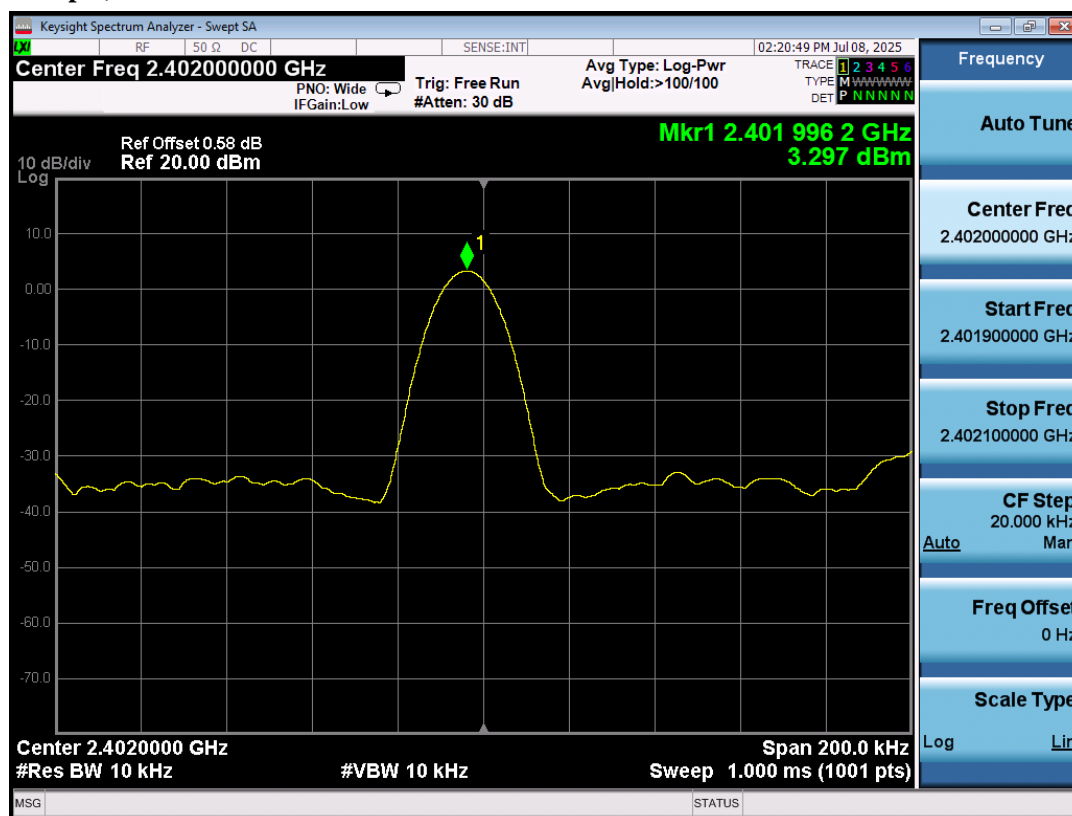
2.2.4 Test Result

Product : Audio Device
Test Item : Frequency Tolerance
Test Mode : Mode 1 : Transmit BLE(1Mbps)
Test Voltage : 100V

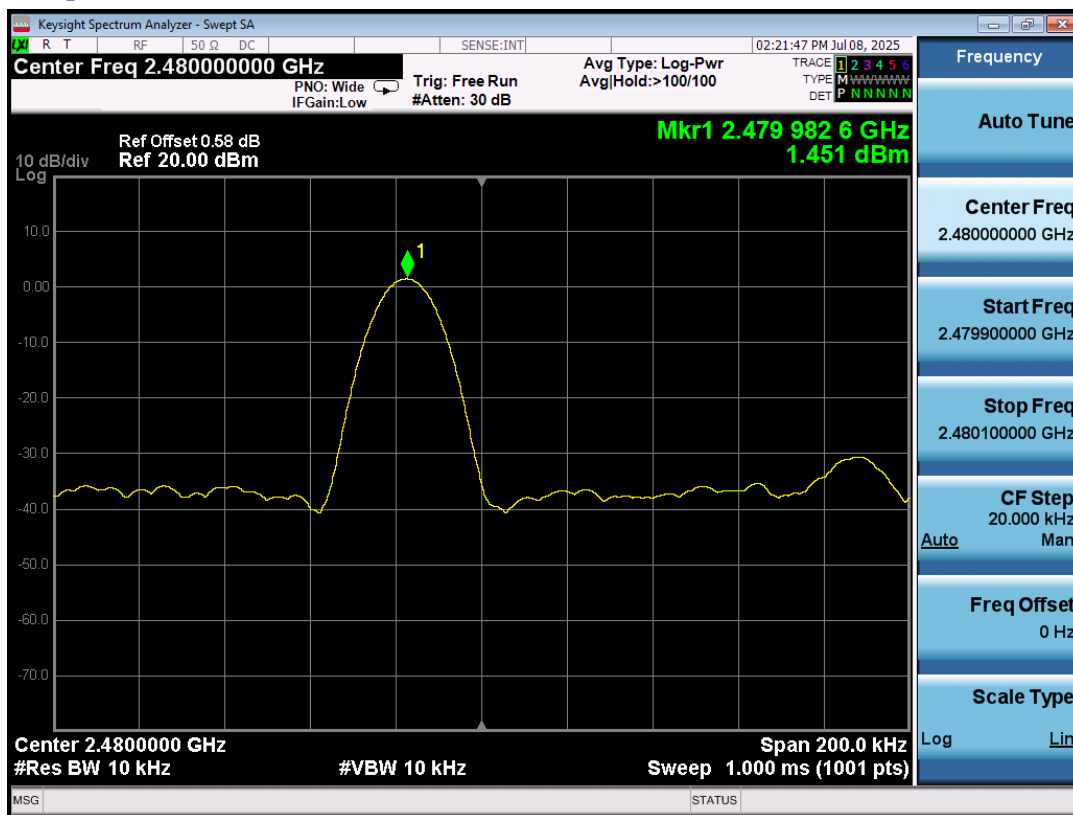
Frequency (MHz)	Reading Value (MHz)	Tolerance (ppm)	Limit (ppm)	Result
2402	2401.99620	-1.58	$\leq \pm 50$	Pass
2480	2479.98260	-7.02	$\leq \pm 50$	Pass

Note: The spectrum plots are attached to the following.

BLE 1Mbps ; 2402MHz



BLE 1Mbps ; 2480MHz

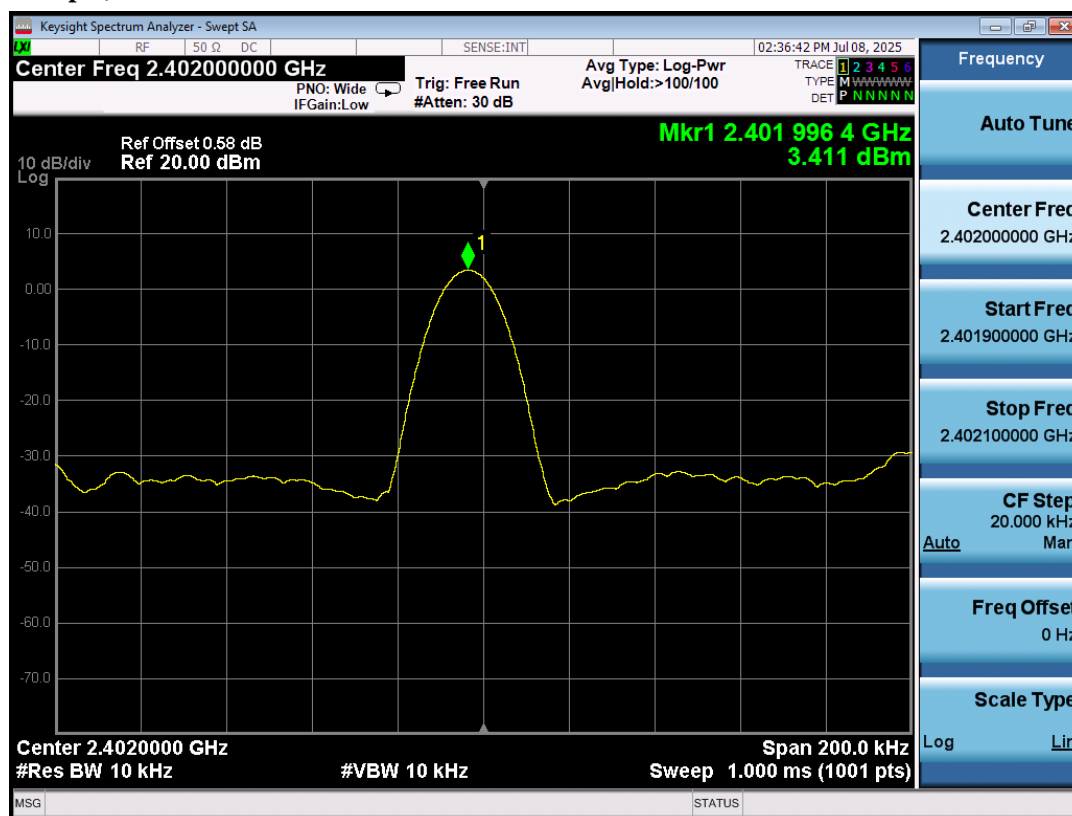


Product : Audio Device
Test Item : Frequency Tolerance
Test Mode : Mode 2 : Transmit BLE(2Mbps)
Test Voltage : 100V

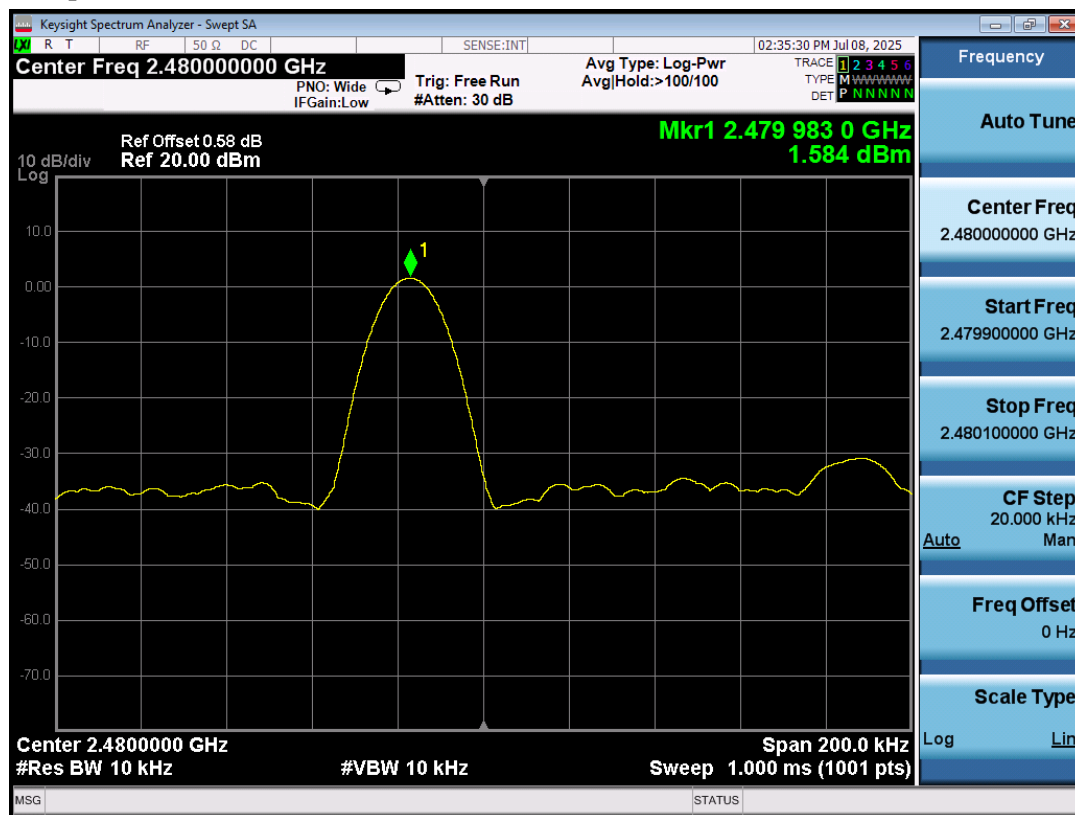
Frequency (MHz)	Reading Value (MHz)	Tolerance (ppm)	Limit (ppm)	Result
2402	2401.99640	-1.50	$\leq \pm 50$	Pass
2480	2479.98300	-6.85	$\leq \pm 50$	Pass

Note: The spectrum plots are attached to the following.

BLE 2Mbps ; 2402MHz



BLE 2Mbps ; 2480MHz



2.3 Occupied Bandwidth

2.3.1 Limit

Mode	Limit
FHSS(Compound method with DSSS or OFDM)	≤ 83.5 MHz
DSSS、OFDM *1	≤ 26 MHz
OFDM*2	26 - 40 MHz
Other Digital methods	≤ 26 MHz

*1 Antenna Power ≤ 10 mW/MHz

*2 Antenna Power ≤ 5 mW/MHz

2.3.2 Test Setup



2.3.3 Test Procedure

Test method: According to Notification No. 88 of MIC, 2004, Annex 43(Occupied Bandwidth & Spreading Bandwidth)

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- A positive peak detector function must be used.
- A measurement instrument with an integrated 99% power bandwidth function may be used to automate the test process.
- The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

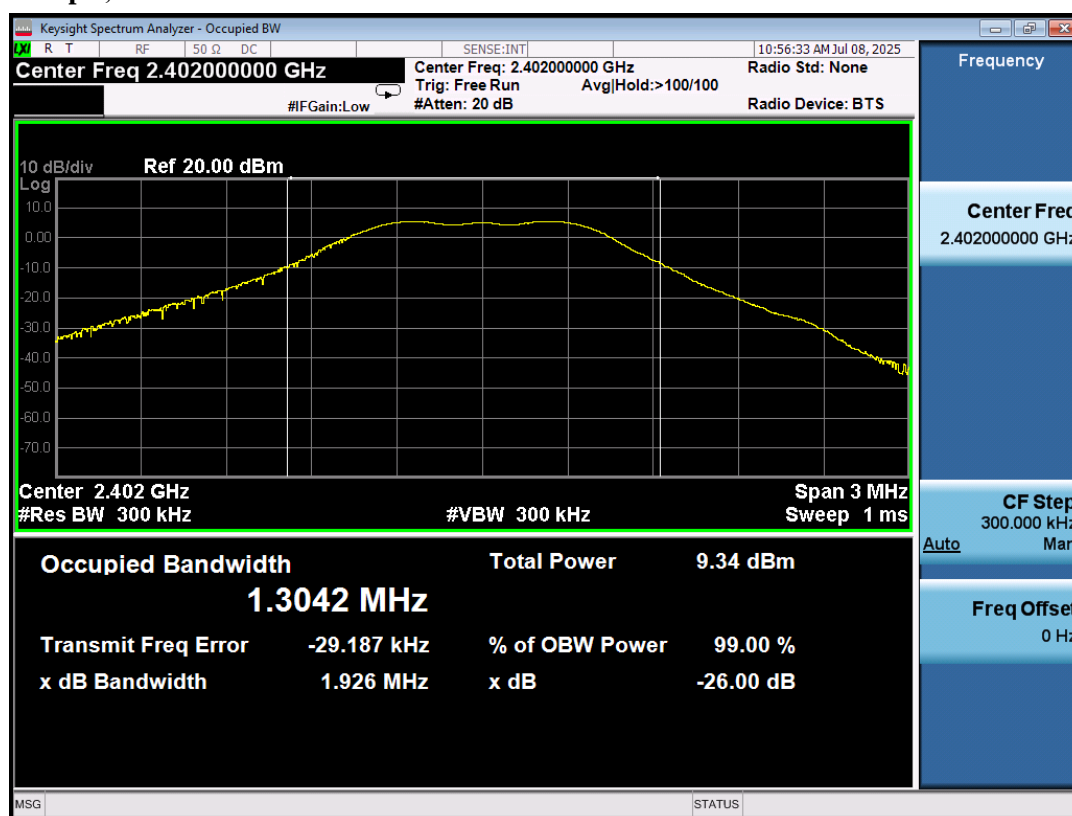
2.3.4 Test Result

Product : Audio Device
Test Item : Occupied Bandwidth
Test Mode : Mode 1 : Transmit BLE(1Mbps)
Test Voltage : 100V

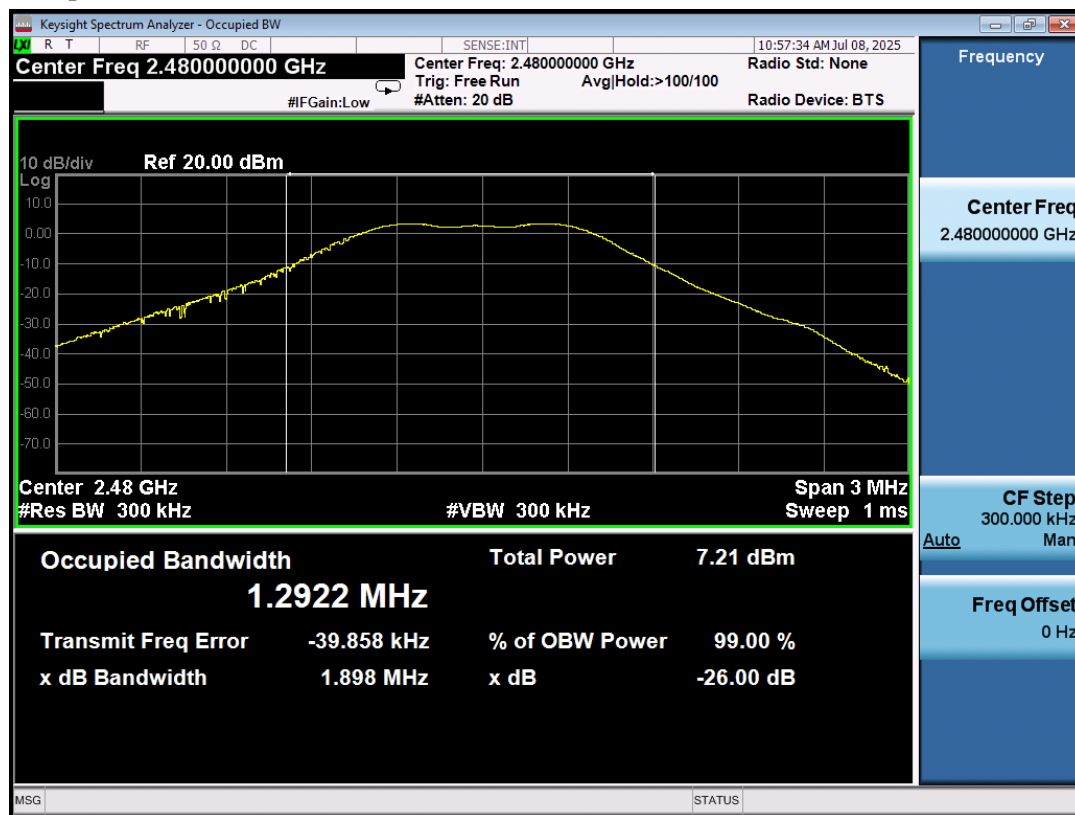
Frequency (MHz)	Measured Value (MHz)	Limit (MHz)	Result
2402	1.3042	≤ 26	Pass
2480	1.2922	≤ 26	Pass

Note: The spectrum plots are attached to the following.

BLE 1Mbps ; 2402MHz



BLE 1Mbps ; 2480MHz

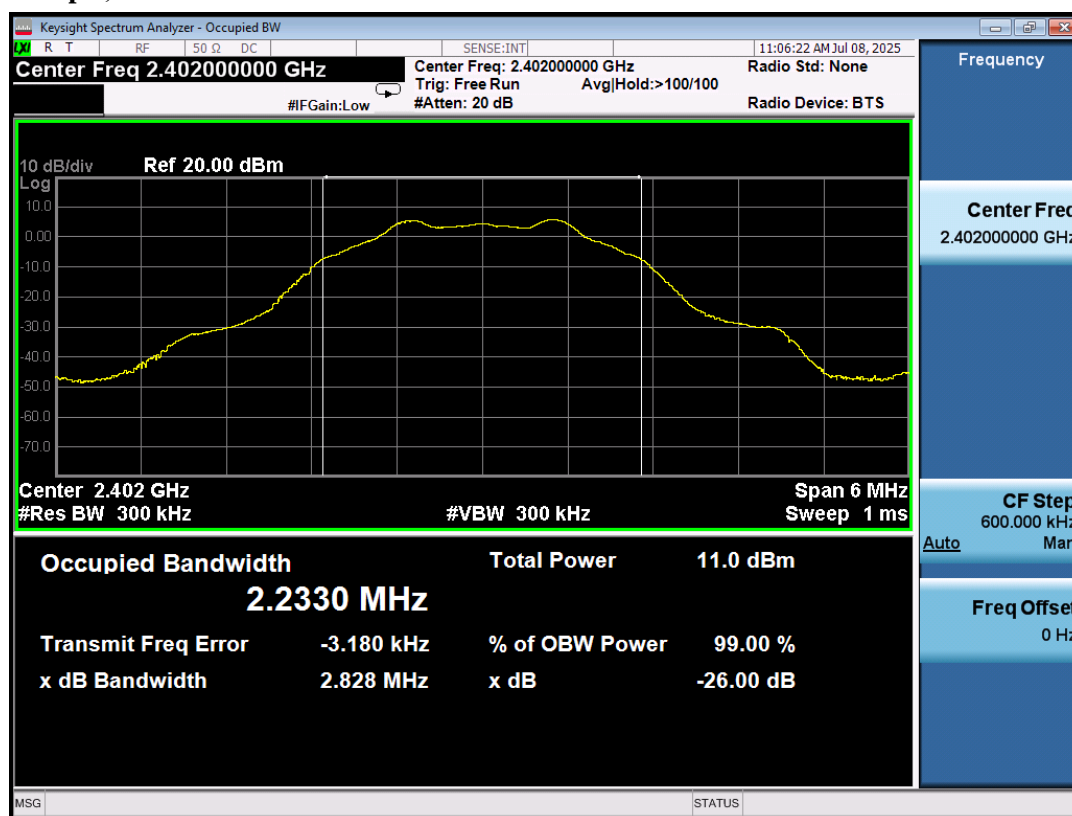


Product : Audio Device
Test Item : Occupied Bandwidth
Test Mode : Mode 2 : Transmit BLE(2Mbps)
Test Voltage : 100V

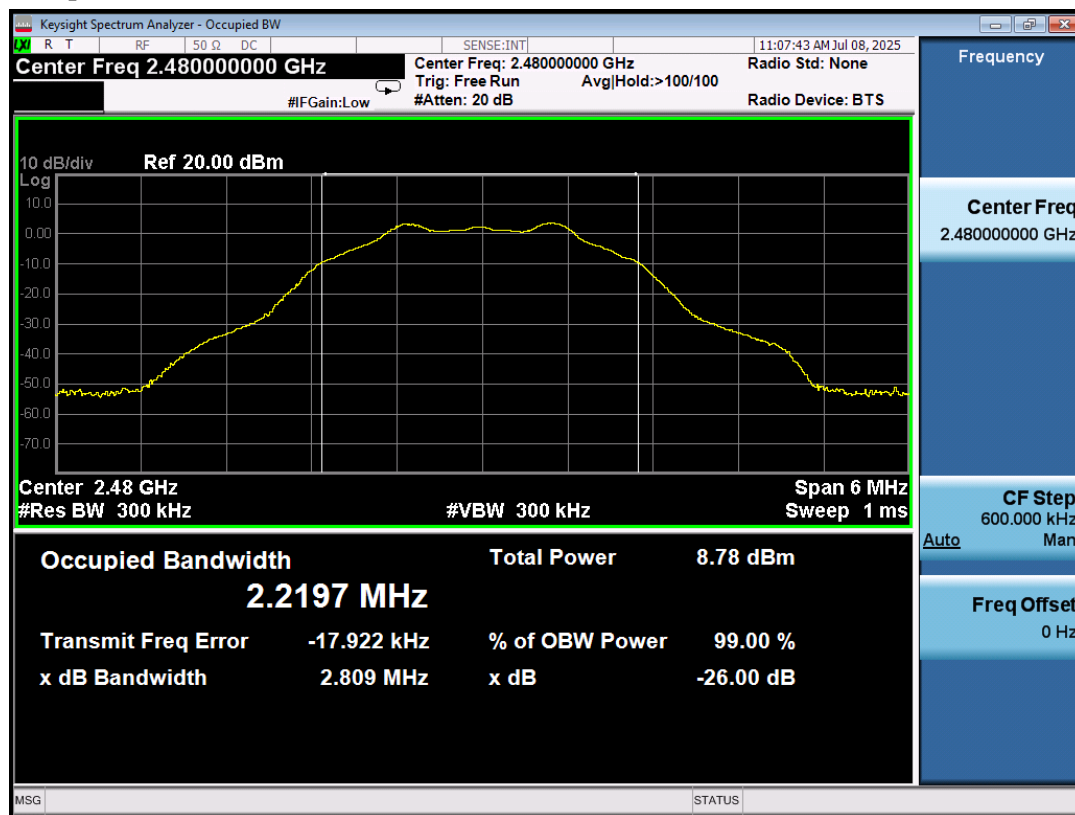
Frequency (MHz)	Measured Value (MHz)	Limit (MHz)	Result
2402	2.2330	≤ 26	Pass
2480	2.2197	≤ 26	Pass

Note: The spectrum plots are attached to the following.

BLE 2Mbps ; 2402MHz



BLE 2Mbps ; 2480MHz



2.4 Unwanted Emission Strength

2.4.1 Limit

Frequency	Limit
30 ~ 2387 MHz	$\leq 2.5\mu\text{W/MHz}$
2387 ~ 2400 MHz	$\leq 25\mu\text{W/MHz}$
2483.5 ~ 2496.5 MHz	$\leq 25\mu\text{W/MHz}$
2496.5 ~ 12500 MHz	$\leq 2.5\mu\text{W/MHz}$

2.4.2 Test Setup



2.4.3 Test Procedure

Test method: According to Notification No. 88 of MIC, 2004, Annex 43(Intensity of spurious emission or unwanted emission)

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

2.4.4 Test Result

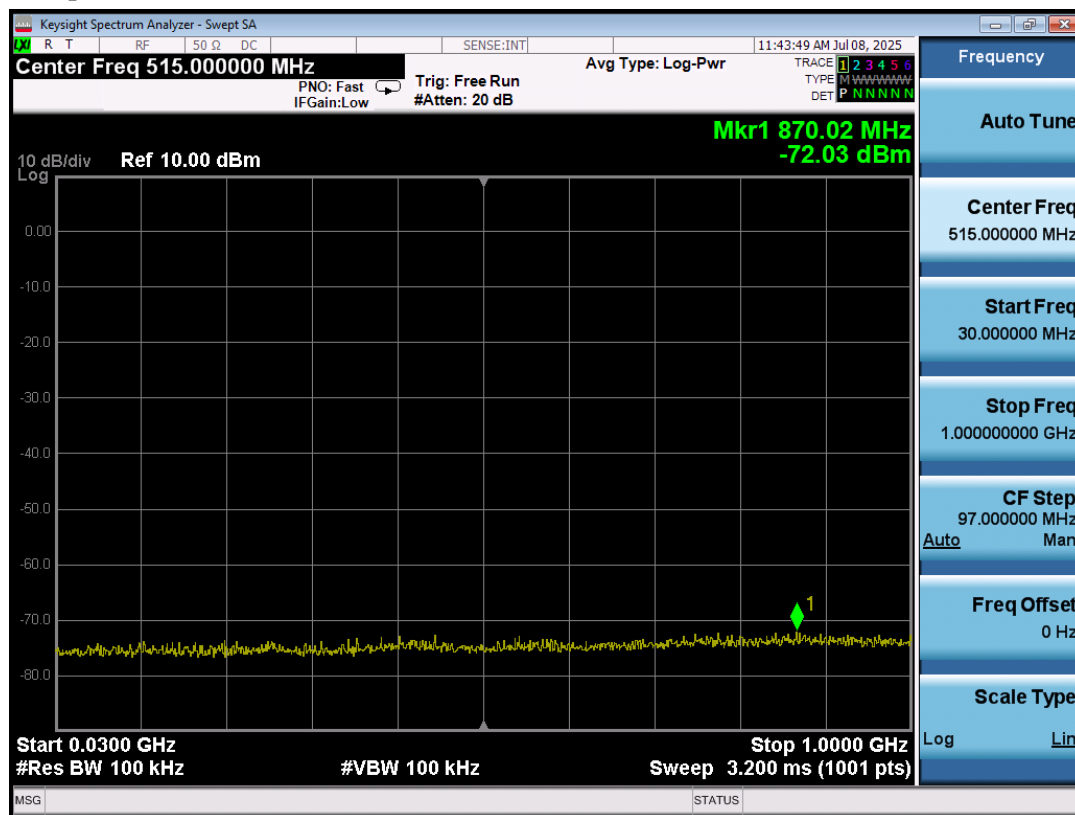
Product : Audio Device
Test Item : Transmitter Spurious Emissions
Test Mode : Mode 1 : Transmit BLE(1Mbps)
Test Voltage : 100V

Frequency (MHz)	Test Freq. (MHz)	Measured Value		Limit (μ W/MHz)	Result
		dBm/MHz	μ W/MHz		
2402	30 ~ 1000	-61.650	0.00068	≤ 2.5	Pass
	1000 ~ 2387	-58.290	0.00148	≤ 2.5	Pass
	2387 ~ 2400	-24.210	3.79315	≤ 25	Pass
	2483.5 ~ 2496.5	-59.220	0.00120	≤ 25	Pass
	2496.5 ~ 12500	-44.240	0.03767	≤ 2.5	Pass
2480	30 ~ 1000	-61.230	0.00075	≤ 2.5	Pass
	1000 ~ 2387	-58.410	0.00144	≤ 2.5	Pass
	2387 ~ 2400	-59.130	0.00122	≤ 25	Pass
	2483.5 ~ 2496.5	-53.880	0.00409	≤ 25	Pass
	2496.5 ~ 12500	-49.720	0.01067	≤ 2.5	Pass

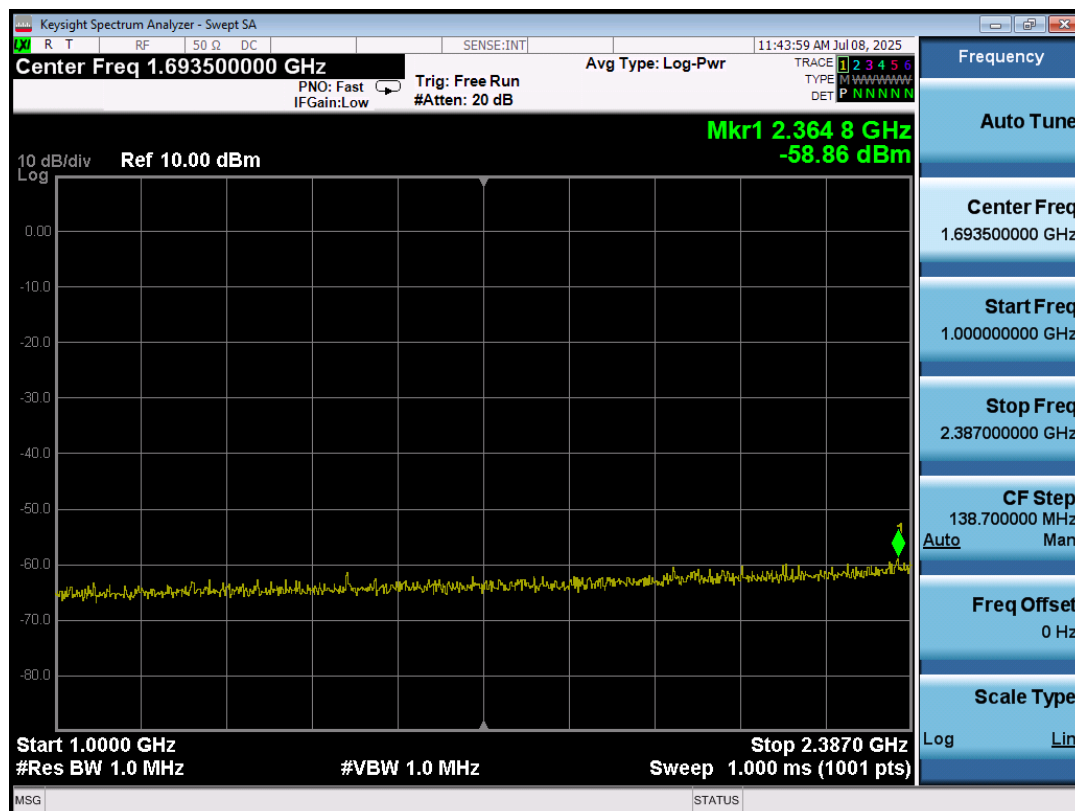
Note:

- (1) The frequency(30~1000MHz) test unit is μ W/100kHz : μ W/MHz = Measured Value(μ W/100kHz) * 10
- (2) Measured Value = Spectrum Reading Value + Cable Loss
- (3) The spectrum plots are attached on the following pages.

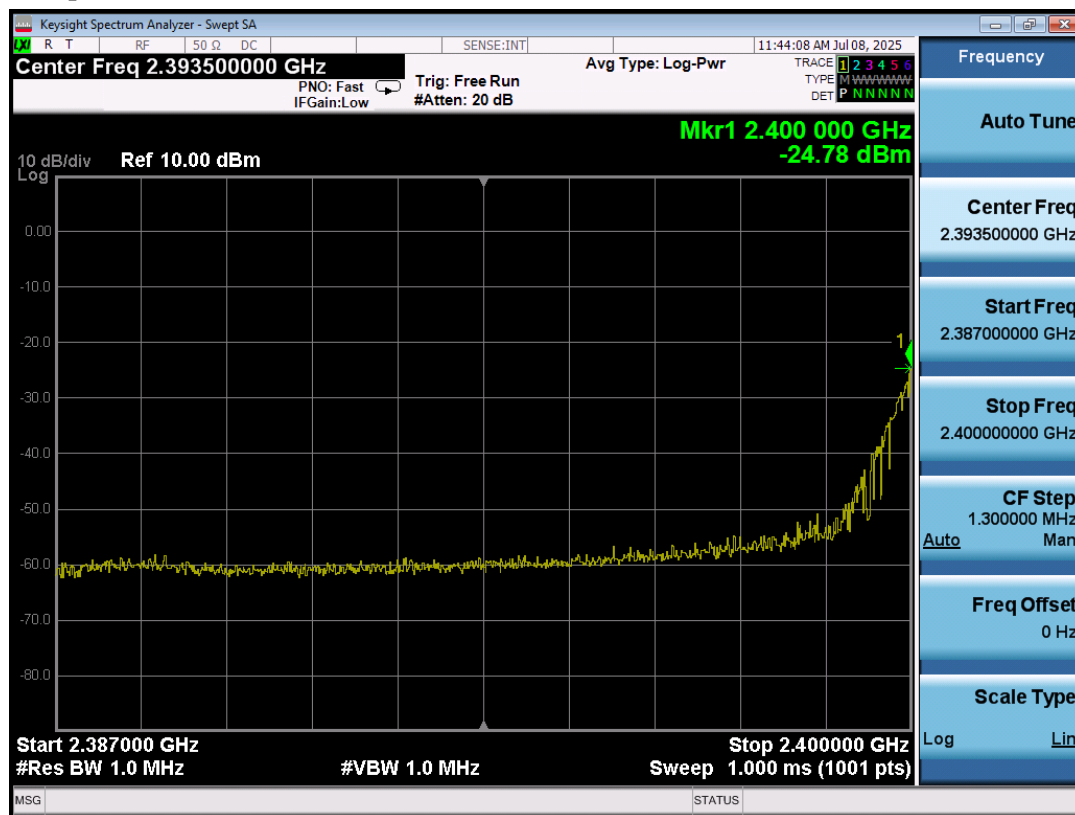
BLE 1Mbps 2402MHz ; 30 ~ 1000 MHz



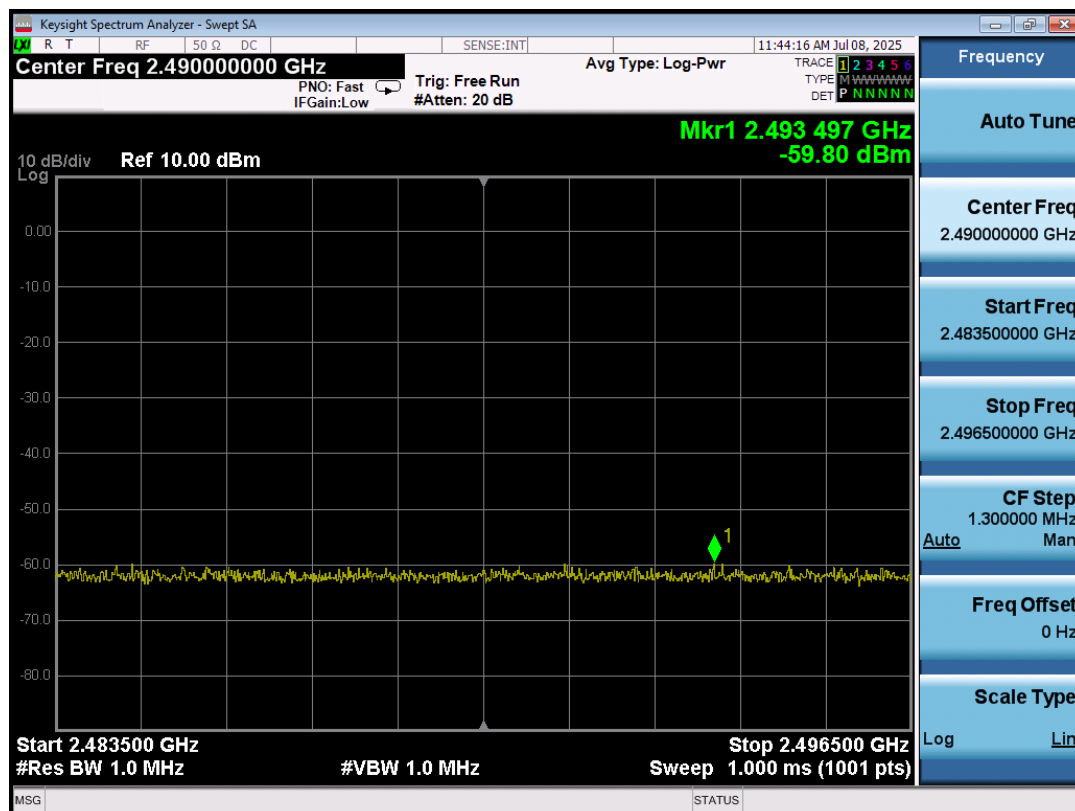
BLE 1Mbps 2402MHz ; 1000 ~ 2387 MHz



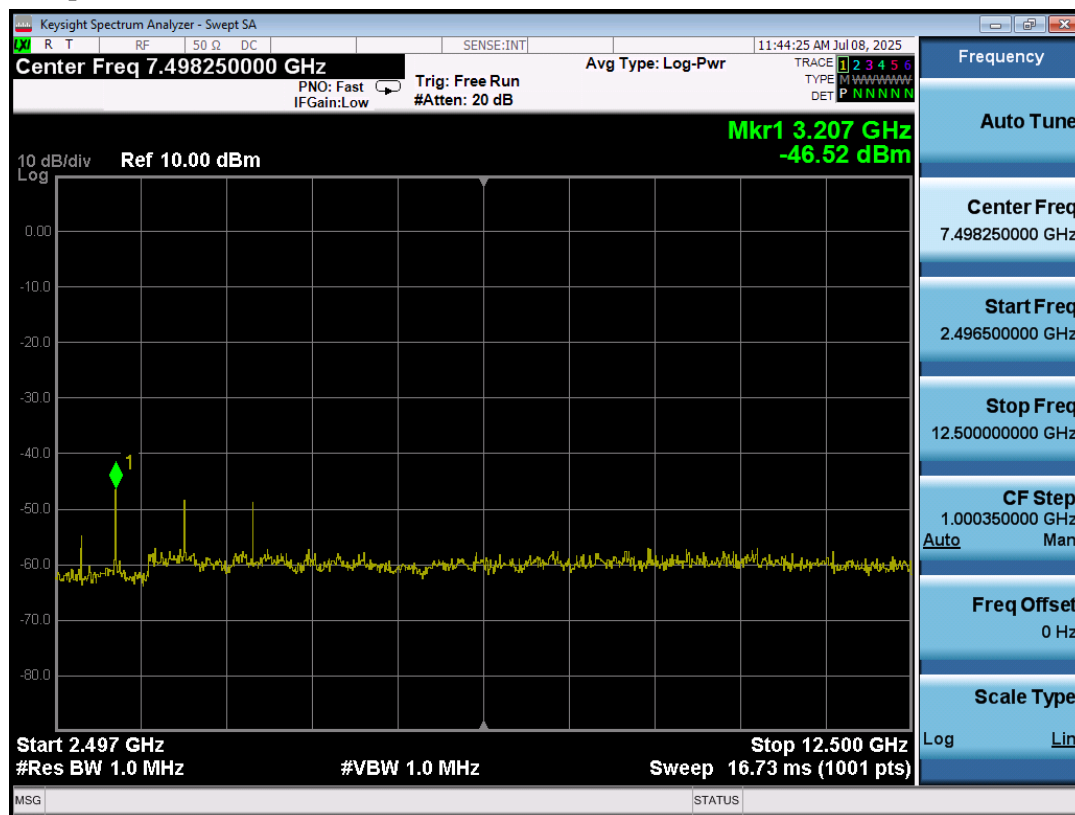
BLE 1Mbps 2402MHz; 2387 ~ 2400 MHz



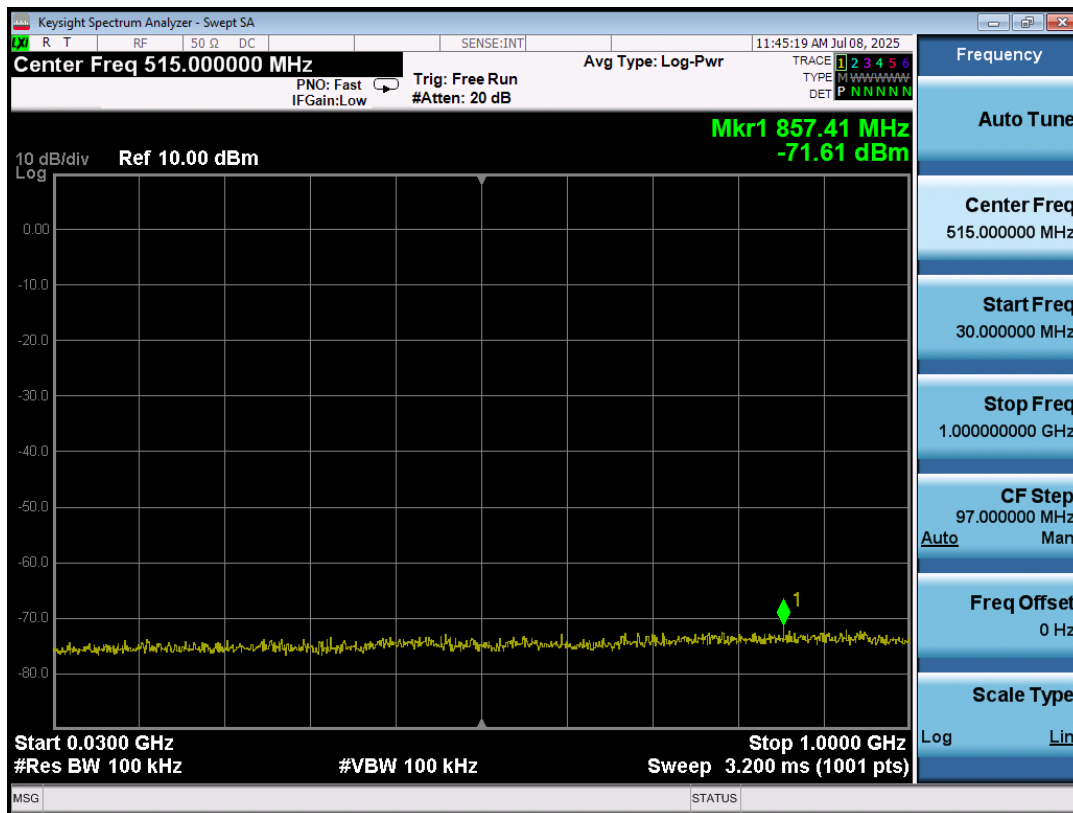
BLE 1Mbps 2402MHz; 2483.5 ~ 2496.5 MHz



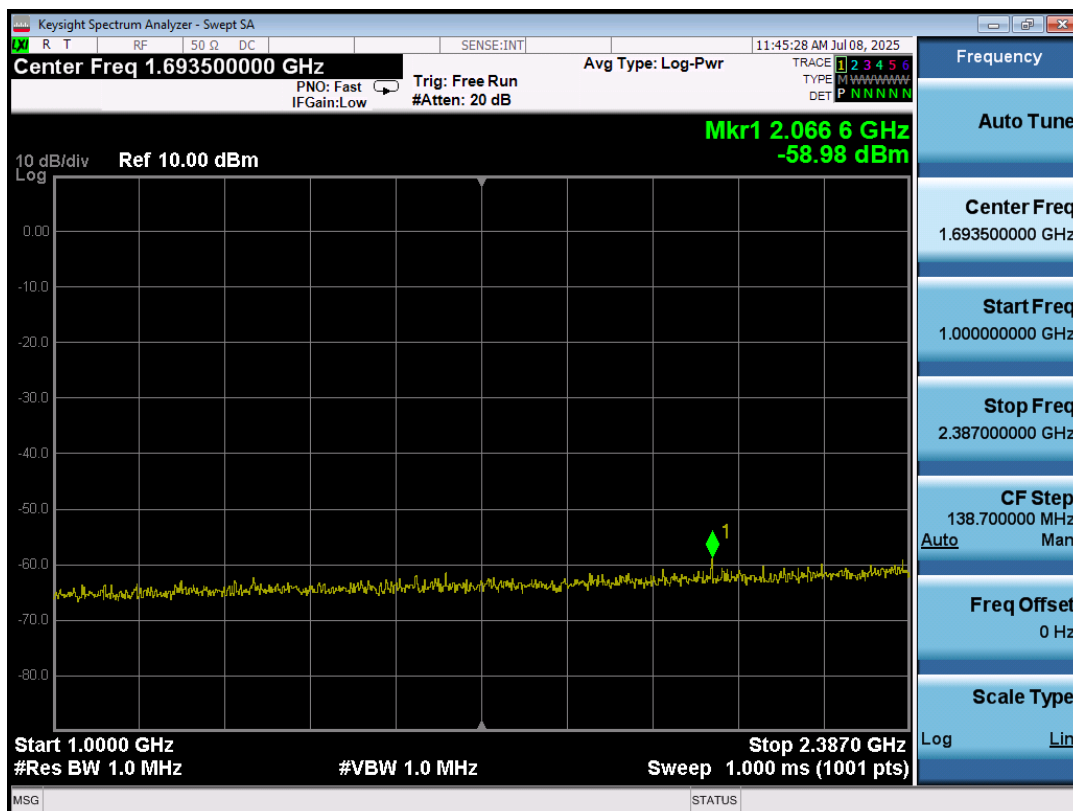
BLE 1Mbps 2402MHz; 2496.5 ~ 12500 MHz



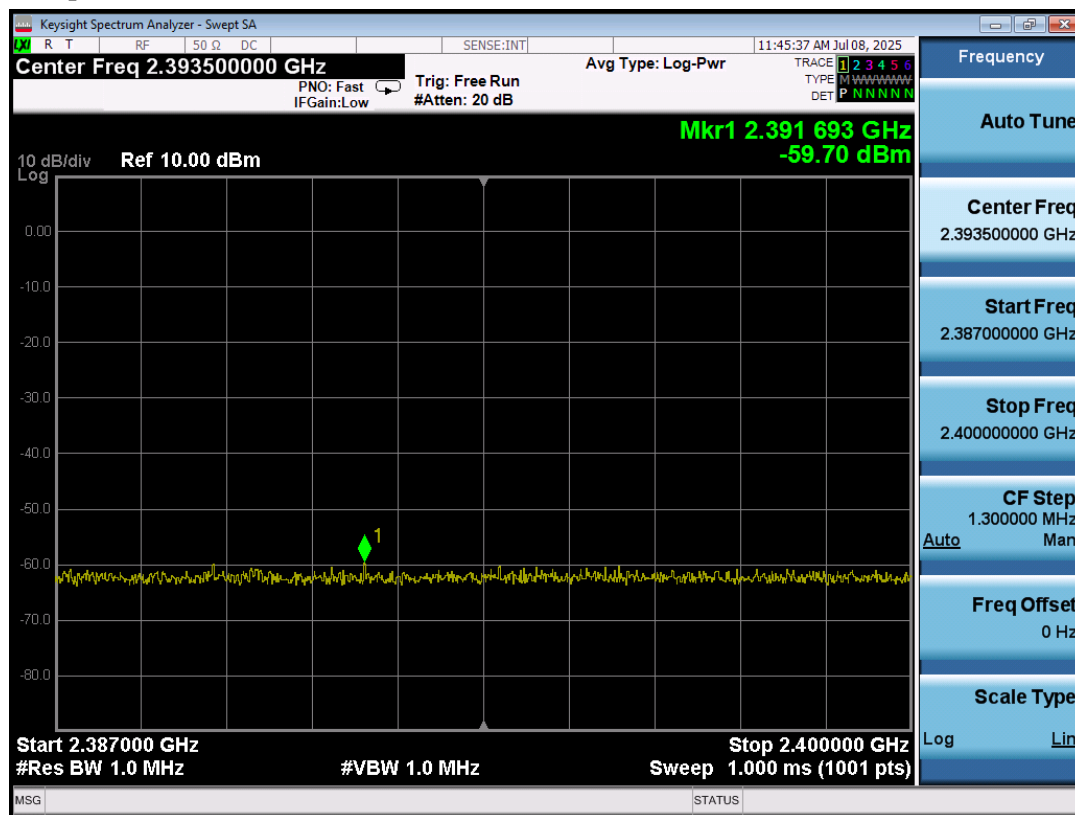
BLE 1Mbps 2480MHz ; 30 ~ 1000 MHz



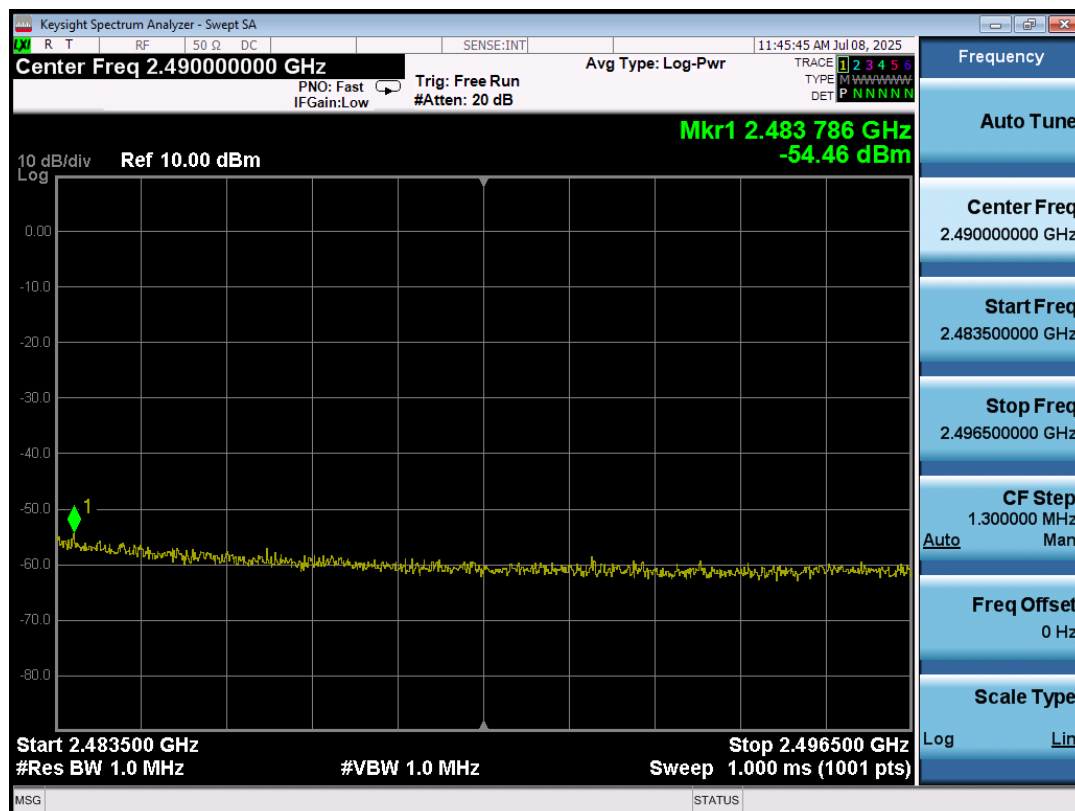
BLE 1Mbps 2480MHz ; 1000 ~ 2387 MHz



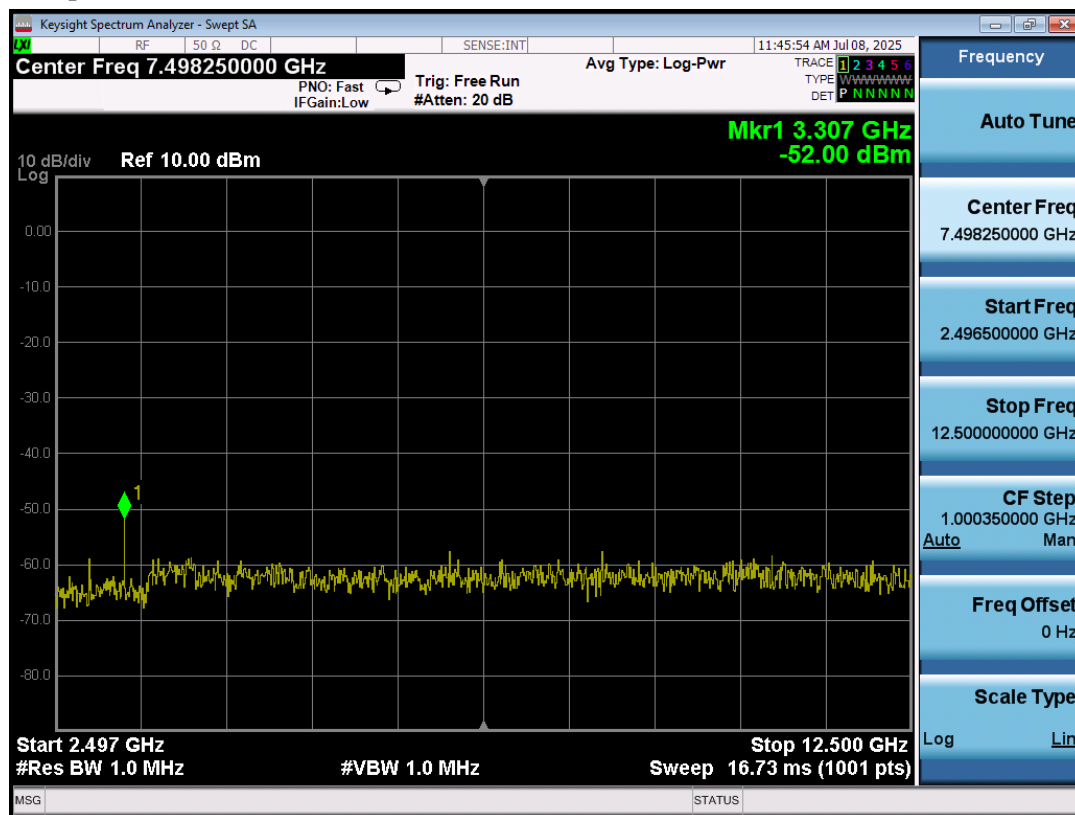
BLE 1Mbps 2480MHz ; 2387 ~ 2400 MHz



BLE 1Mbps 2480MHz ; 2483.5 ~ 2496.5 MHz



BLE 1Mbps 2480MHz ; 2496.5 ~ 12500 MHz



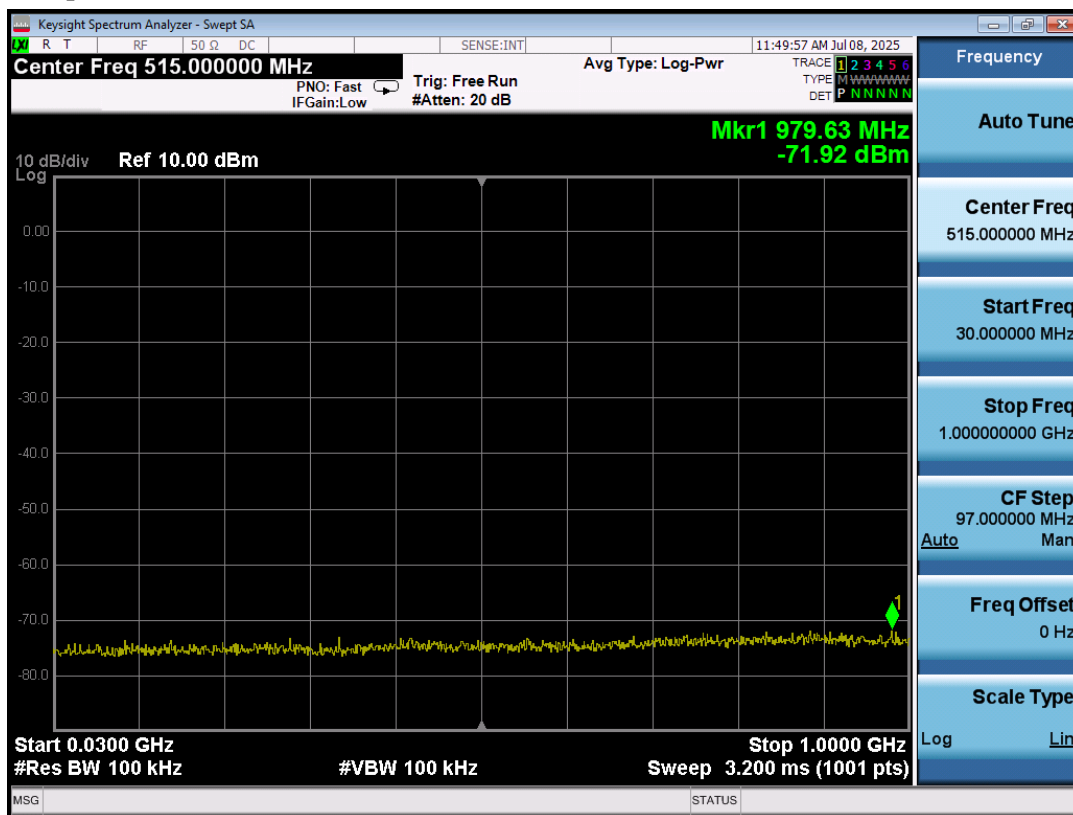
Product : Audio Device
Test Item : Transmitter Spurious Emissions
Test Mode : Mode 2 : Transmit BLE(2Mbps)
Test Voltage : 100V

Frequency (MHz)	Test Freq. (MHz)	Measured Value		Limit (μ W/MHz)	Result
		dBm/MHz	μ W/MHz		
2402	30 ~ 1000	-61.540	0.00070	≤ 2.5	Pass
	1000 ~ 2387	-58.230	0.00150	≤ 2.5	Pass
	2387 ~ 2400	-17.160	19.23092	≤ 25	Pass
	2483.5 ~ 2496.5	-58.700	0.00135	≤ 25	Pass
	2496.5 ~ 12500	-44.100	0.03890	≤ 2.5	Pass
2480	30 ~ 1000	-57.370	0.00183	≤ 2.5	Pass
	1000 ~ 2387	-58.030	0.00157	≤ 2.5	Pass
	2387 ~ 2400	-59.250	0.00119	≤ 25	Pass
	2483.5 ~ 2496.5	-49.920	0.01019	≤ 25	Pass
	2496.5 ~ 12500	-48.500	0.01413	≤ 2.5	Pass

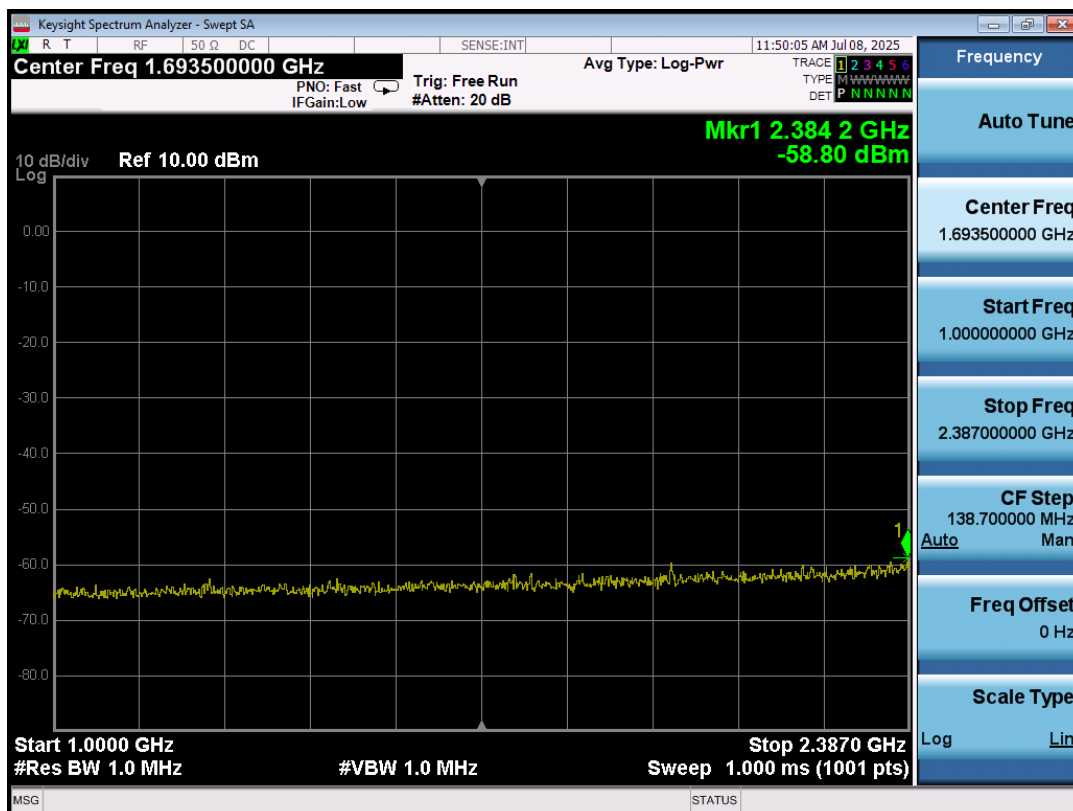
Note:

- (1) The frequency(30~1000MHz) test unit is μ W/100kHz : μ W/MHz = Measured Value(μ W/100kHz) * 10
- (2) Measured Value = Spectrum Reading Value + Cable Loss
- (3) The spectrum plots are attached on the following pages.

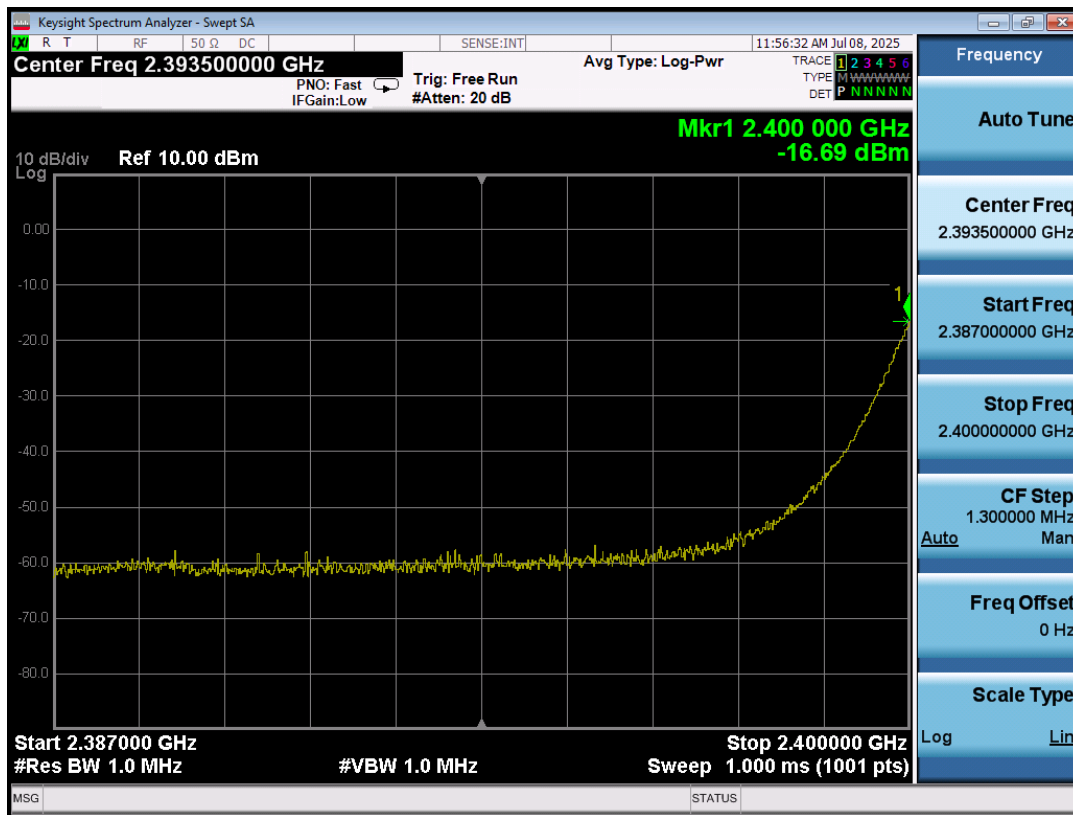
BLE 2Mbps 2402MHz ; 30 ~ 1000 MHz



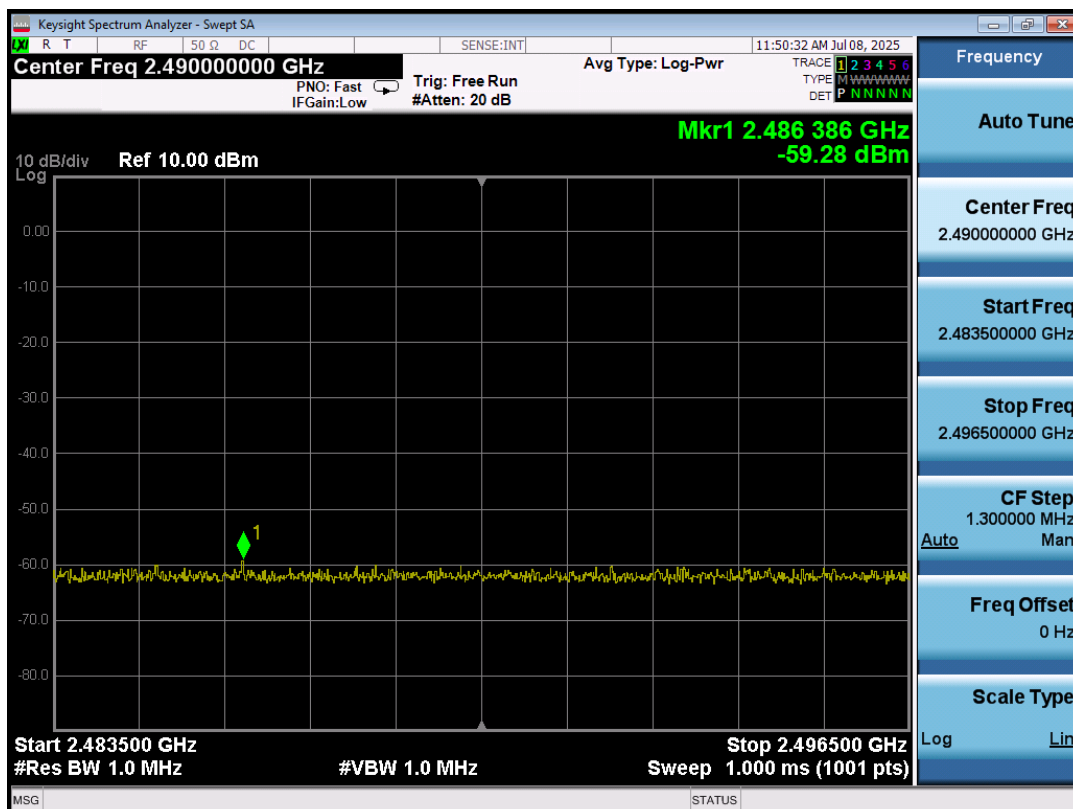
BLE 2Mbps 2402MHz ; 1000 ~ 2387 MHz



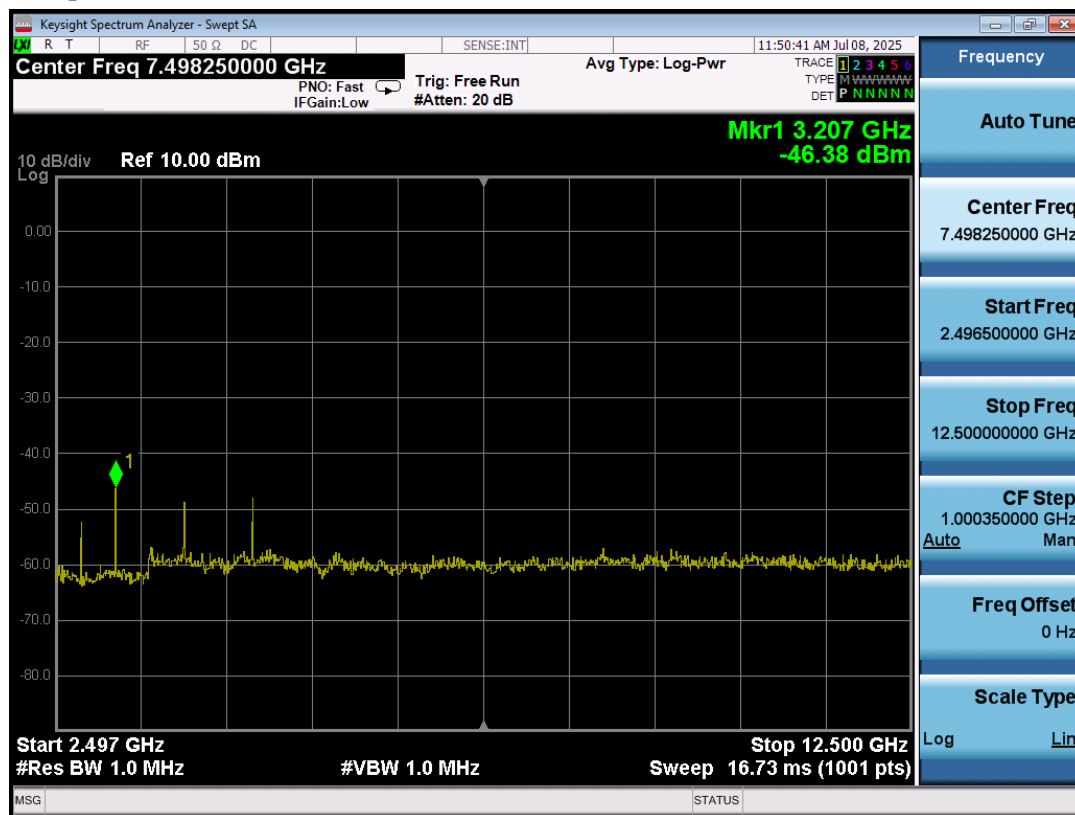
BLE 2Mbps 2402MHz; 2387 ~ 2400 MHz



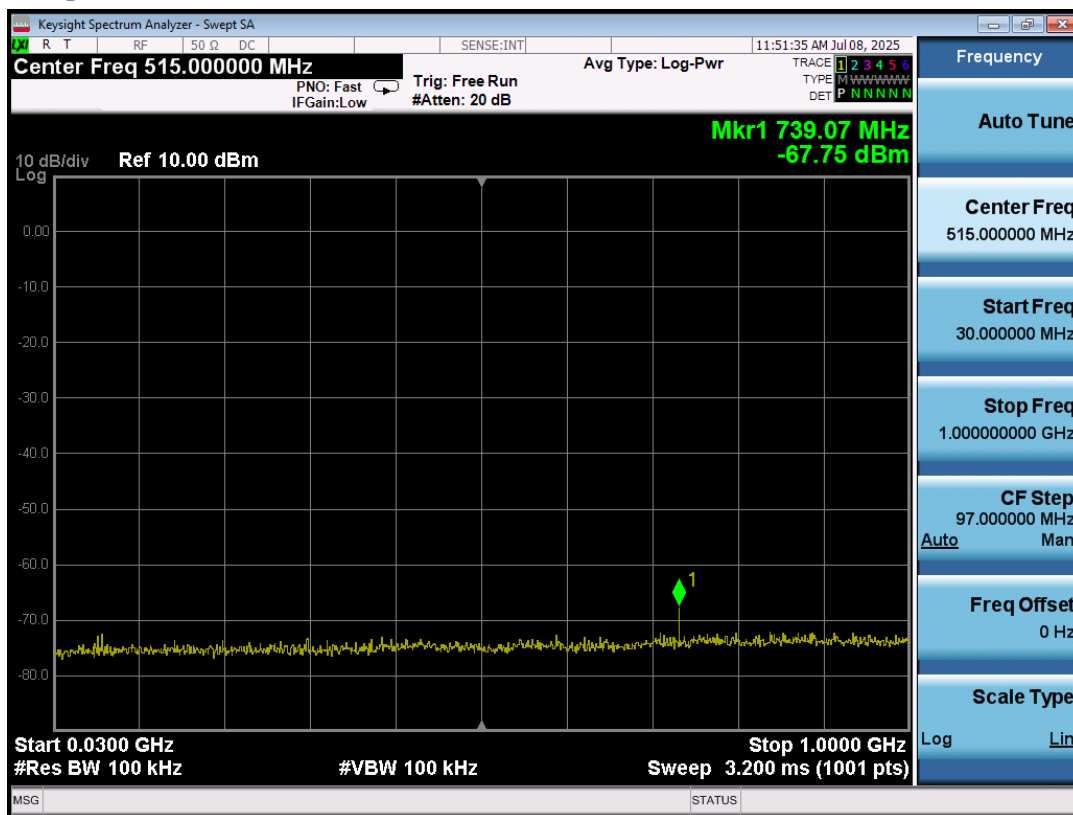
BLE 2Mbps 2402MHz; 2483.5 ~ 2496.5 MHz



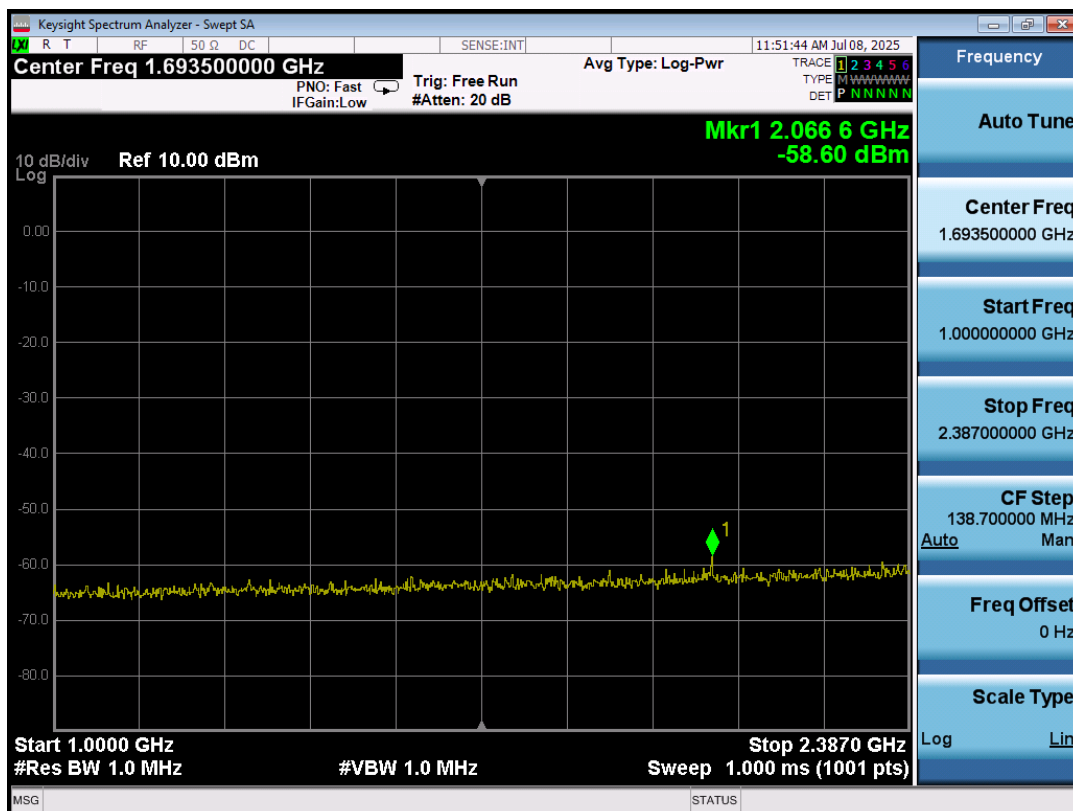
BLE 2Mbps 2402MHz; 2496.5 ~ 12500 MHz



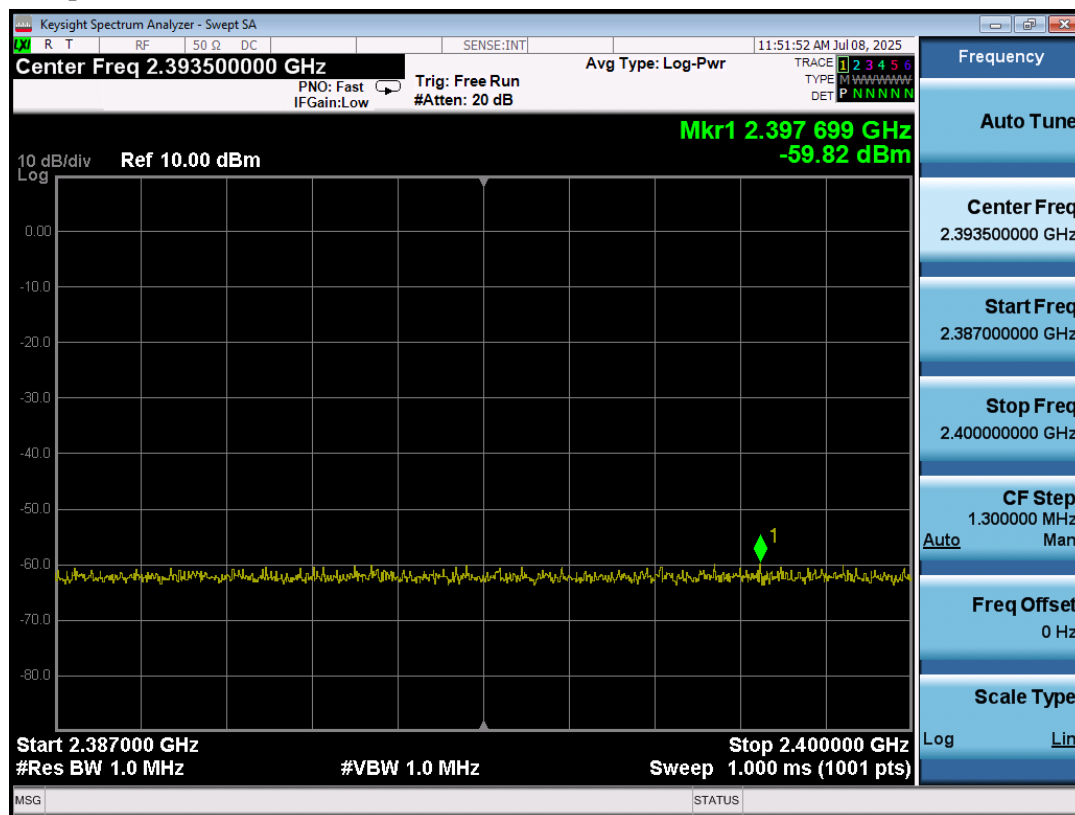
BLE 2Mbps 2480MHz ; 30 ~ 1000 MHz



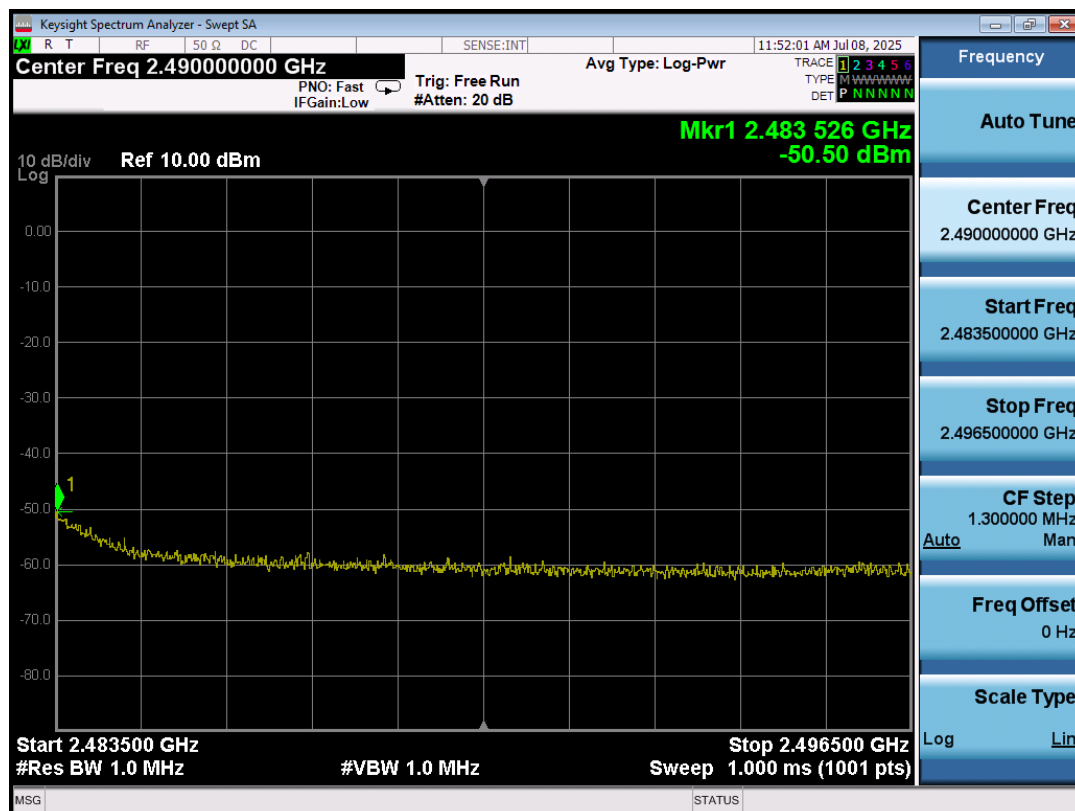
BLE 2Mbps 2480MHz ; 1000 ~ 2387 MHz



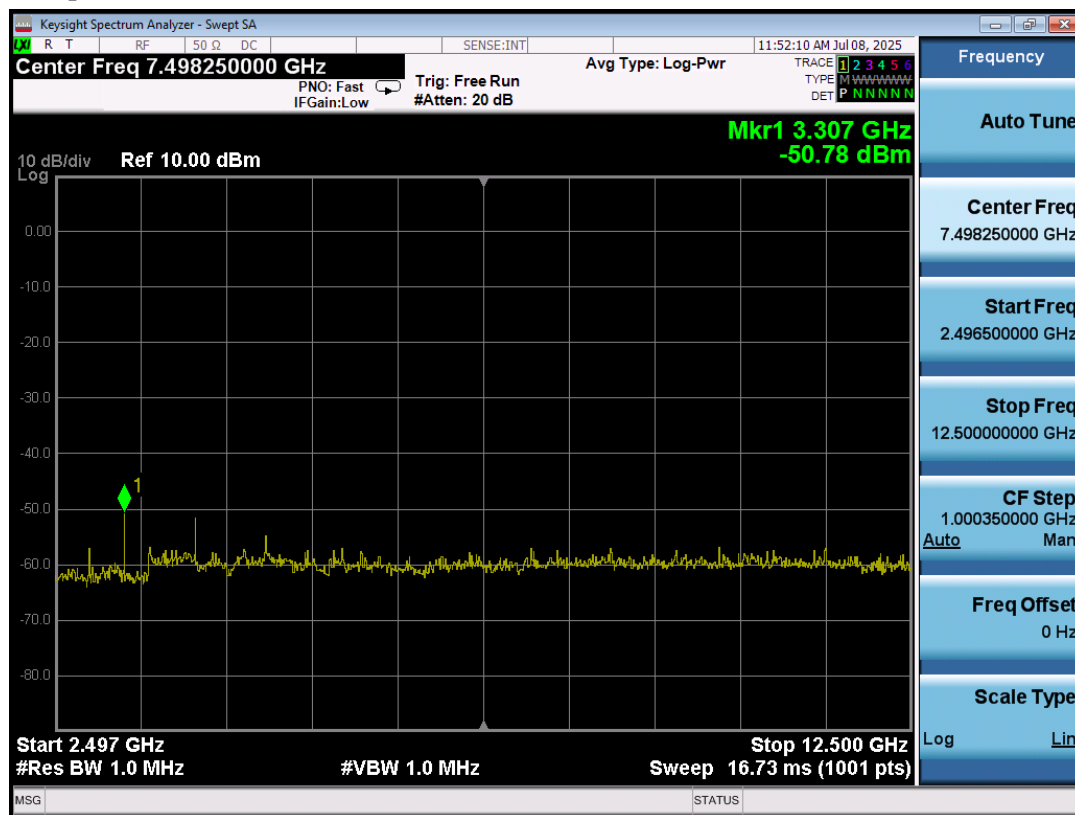
BLE 2Mbps 2480MHz ; 2387 ~ 2400 MHz



BLE 2Mbps 2480MHz ; 2483.5 ~ 2496.5 MHz



BLE 2Mbps 2480MHz ; 2496.5 ~ 12500 MHz



2.5 Secondary Radiated Emission Strength

2.5.1 Limit

Frequency	Limit
30 – 1000 MHz	$\leq 4\text{nW}$
1 – 12.5 GHz	$\leq 20\text{nW}$

2.5.2 Test Setup



2.5.3 Test Procedure

Test method: According to Notification No. 88 of MIC, 2004, Annex 43(Limitation of secondarily emitted radio waves, etc.)

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

2.5.4 Test Result

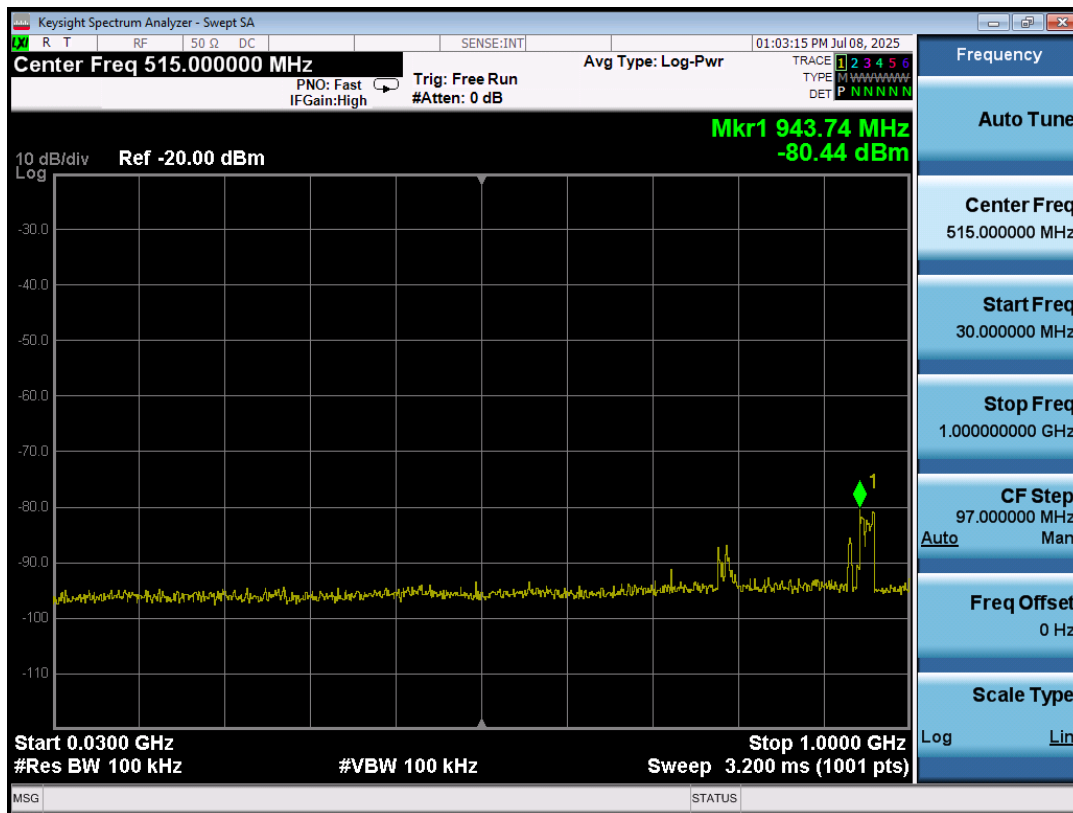
Product : Audio Device
Test Item : Receiver Spurious Emission
Test Mode : Mode 3 : Receiver BLE(1Mbps)
Test Voltage : 100V

Frequency (MHz)	Test Freq. (MHz)	Measured Value		Limit (nW)	Result
		dBm	nW		
2402	30 ~ 1000	-80.060	0.0099	≤ 4	Pass
	1000 ~ 12500	-70.420	0.0908	≤ 20	Pass
2480	30 ~ 1000	-65.110	0.3083	≤ 4	Pass
	1000 ~ 12500	-70.480	0.0895	≤ 20	Pass

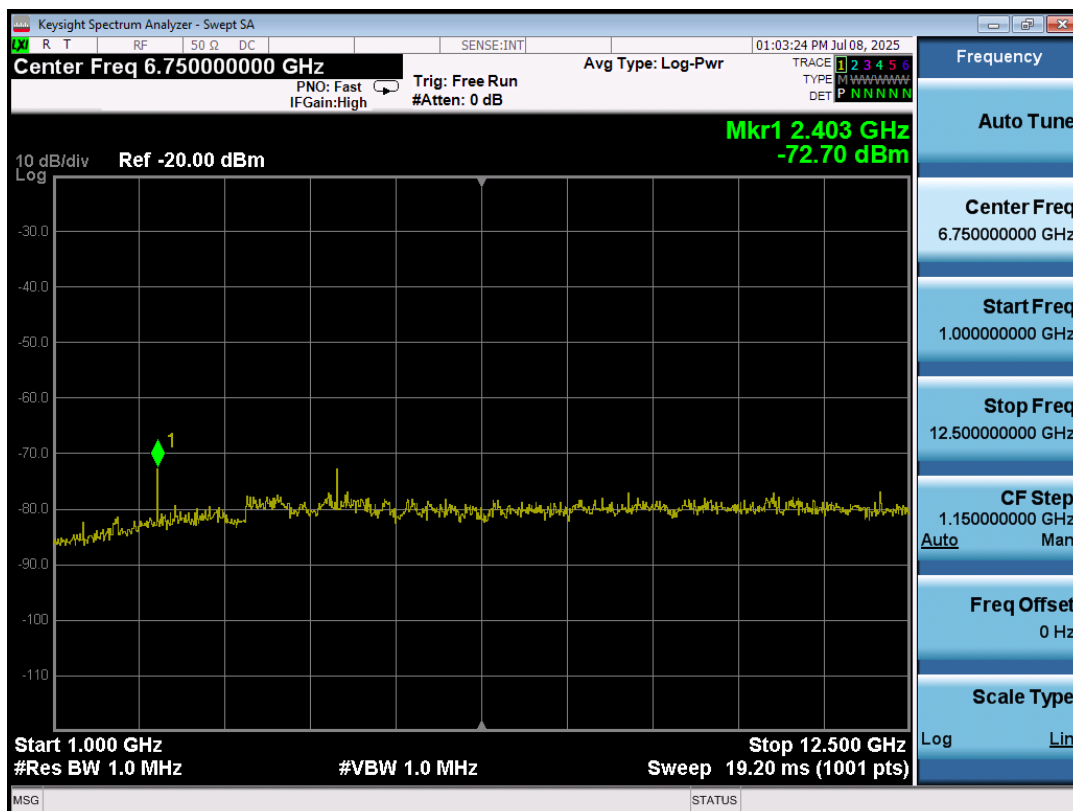
Note:

- (1) Measured Value = Spectrum Reading Value + Cable Loss
- (2) The spectrum plots are attached on the following pages.

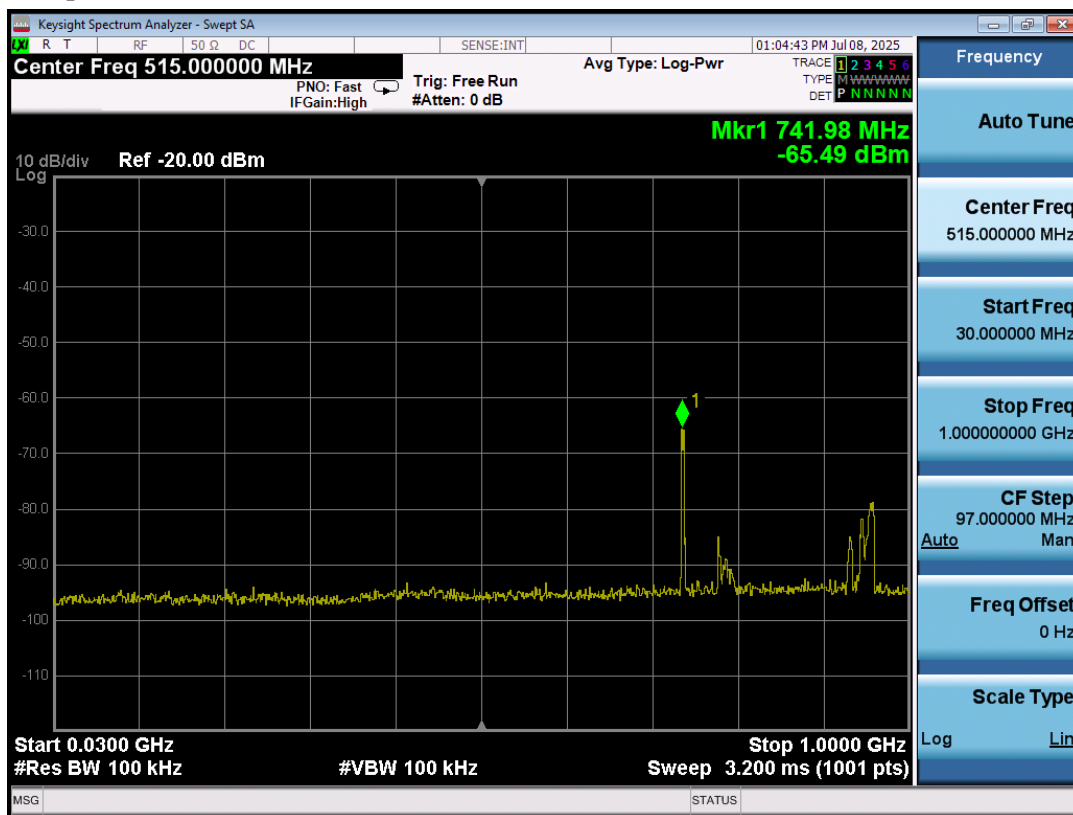
BLE 1Mbps 2402MHz ; 30 ~ 1000 MHz



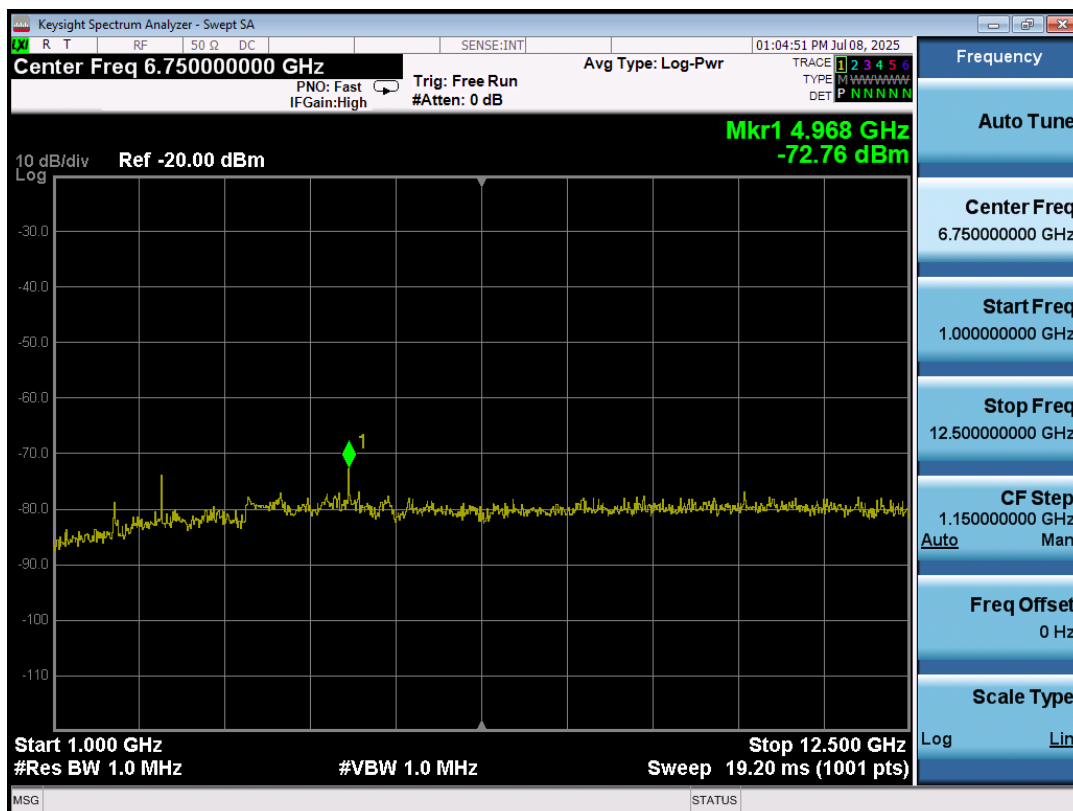
BLE 1Mbps 2402MHz ; 1000 ~ 12500 MHz



BLE 1Mbps 2480MHz ; 30 ~ 1000 MHz



BLE 1Mbps 2480MHz ; 1000 ~ 12500 MHz



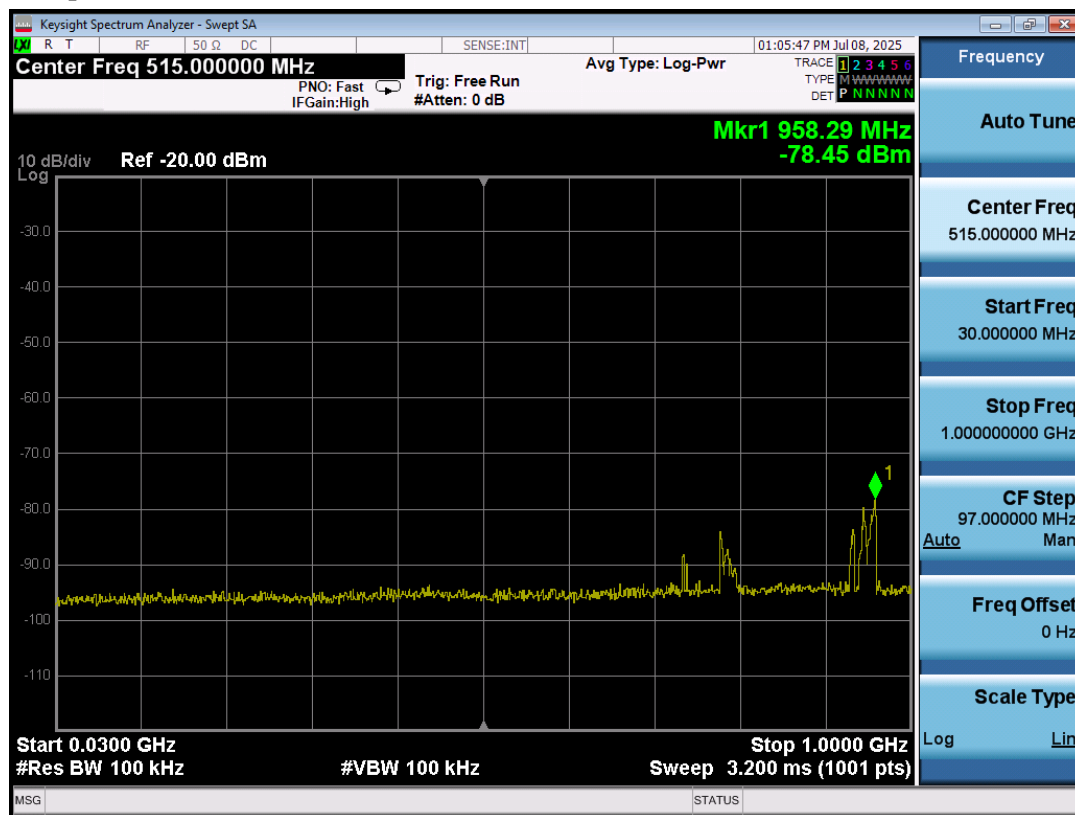
Product : Audio Device
Test Item : Receiver Spurious Emission
Test Mode : Mode 4 : Receiver BLE(2Mbps)
Test Voltage : 100V

Frequency (MHz)	Test Freq. (MHz)	Measured Value		Limit (nW)	Result
		dBm	nW		
2402	30 ~ 1000	-78.070	0.0156	≤ 4	Pass
	1000 ~ 12500	-70.830	0.0826	≤ 20	Pass
2480	30 ~ 1000	-78.960	0.0127	≤ 4	Pass
	1000 ~ 12500	-70.330	0.0927	≤ 20	Pass

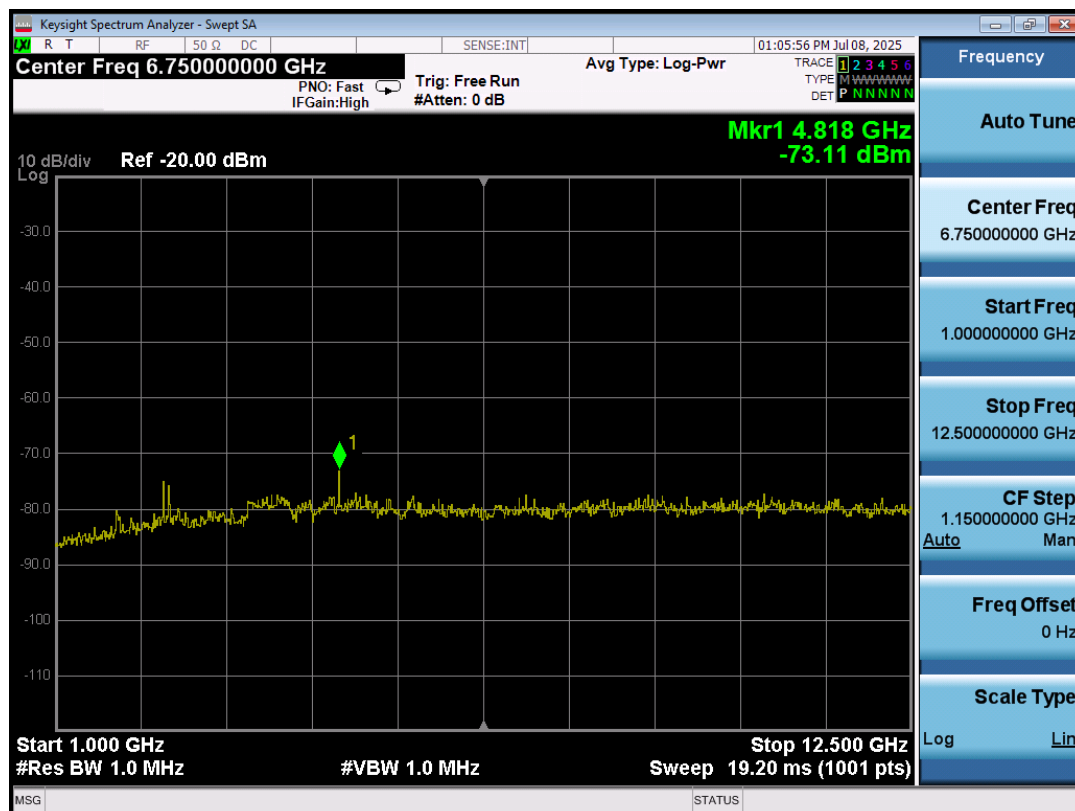
Note:

- (1) Measured Value = Spectrum Reading Value + Cable Loss
- (2) The spectrum plots are attached on the following pages.

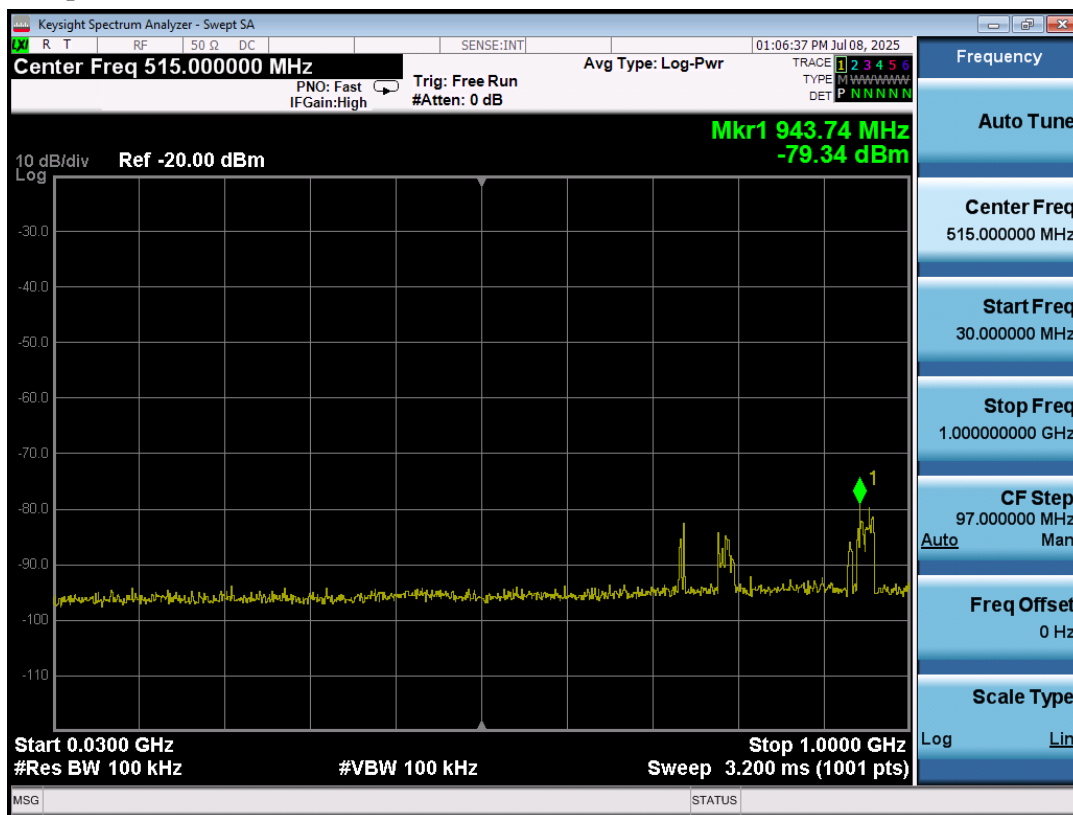
BLE 2Mbps 2402MHz ; 30 ~ 1000 MHz



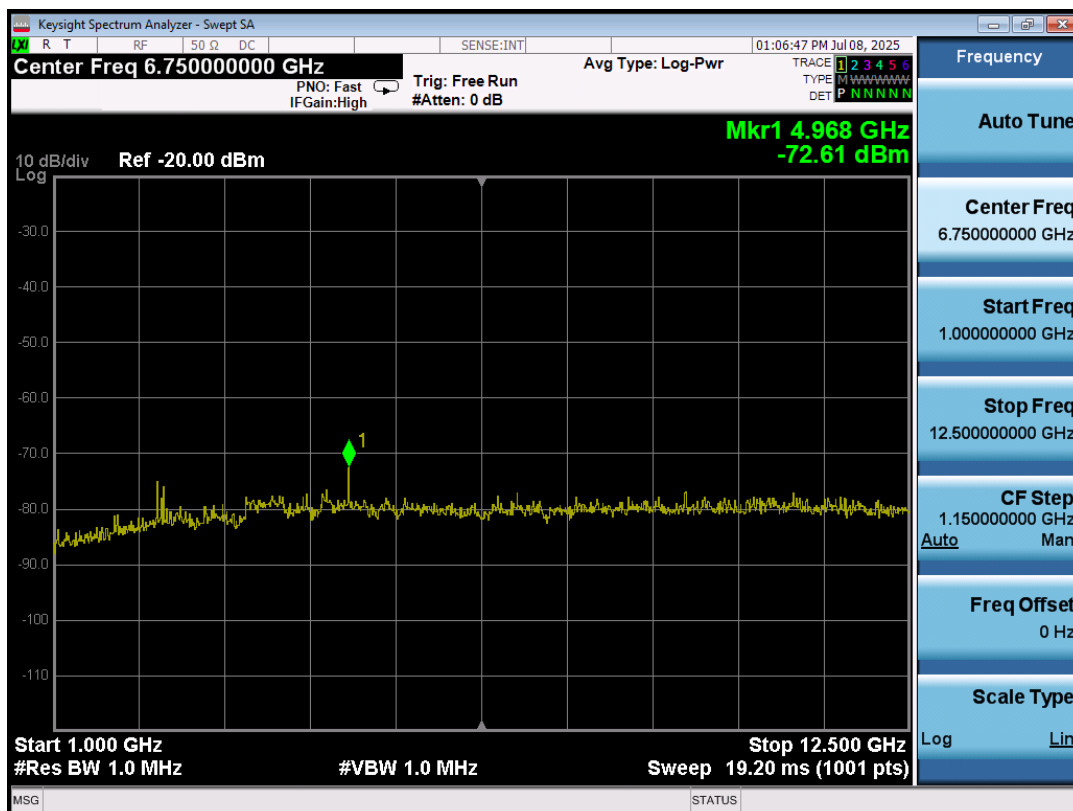
BLE 2Mbps 2402MHz ; 1000 ~ 12500 MHz



BLE 2Mbps 2480MHz ; 30 ~ 1000 MHz



BLE 2Mbps 2480MHz ; 1000 ~ 12500 MHz



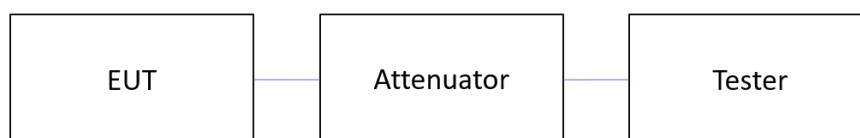
2.6 Interference Prevention Function

2.6.1 Limit

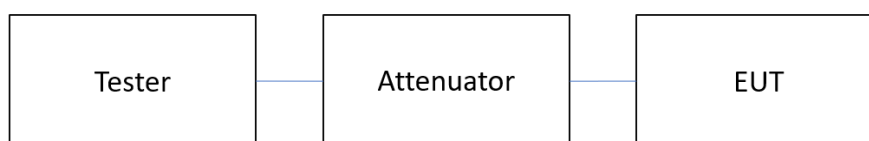
Item	Limit
Identification code	≥ 48 bits

2.6.2 Test Setup

- (1) When sending an identification code



- (2) When receiving an identification code



2.6.3 Test Procedure

Test method: According to Notification No. 88 of MIC, 2004, Annex 43(Interference Prevention Function)

1. When EUT has a function to automatically transmit an identification code
 - (a) Transmit the identification code specified in the Equipment Regulations from the test equipment.
 - (b) Check the identification code sent by the demodulator.

2. When the test equipment has a function to automatically receive the identification code
 - (a) Transmit the identification code specified in the Equipment Regulations from the counterpart device.
 - (b) Confirm that communication is performed with the EUT using the dedicated jig.
 - (c) Transmit a code different from the identification code specified in the Equipment Regulations from the counterpart device.
 - (d) Confirm that EUT stops transmission or displays that the identification code is different.

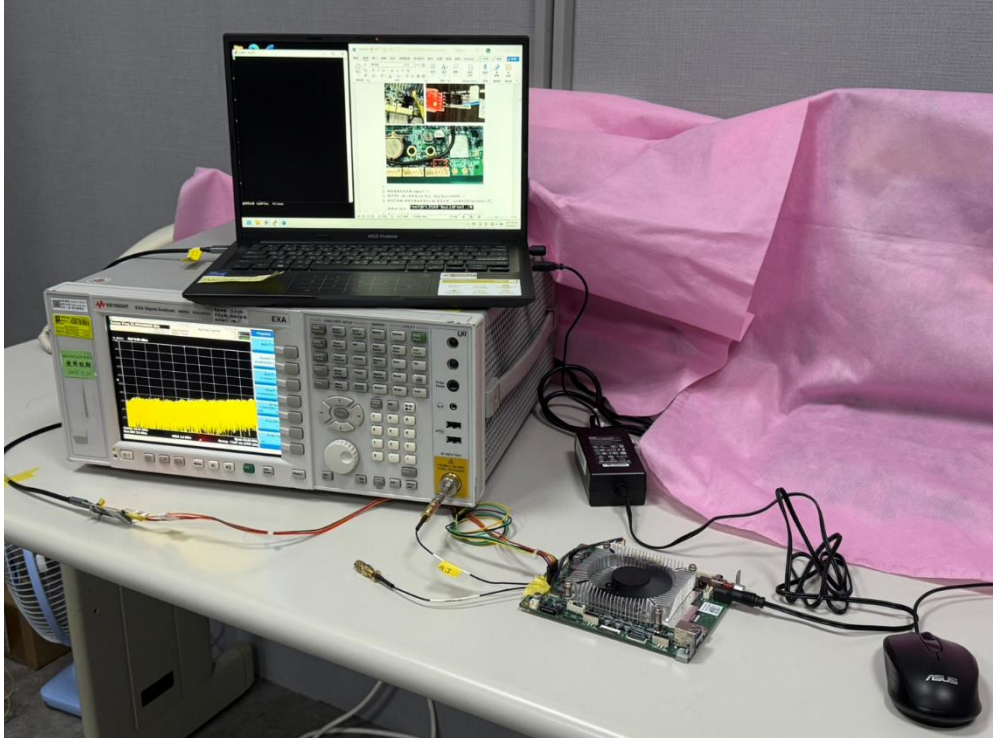
2.6.4 Test Result

The Mac Address is 9C:B8:B4:5F:1F:83

```
hci0: Type: Primary Bus: UART
      BD Address: 9C:B8:B4:5F:1F:83 ACL MTU: 1021:8 SCO MTU: 64:1
      UP RUNNING
      RX bytes:934 acl:0 sco:0 events:69 errors:0
      TX bytes:3317 acl:0 sco:0 commands:69 errors:0
```

Attachment 1: Photographs of the Test Configuration

Spectrum Measurement



--- END ---