



## FCC PART 15.247

### TEST REPORT

For

### PO FUNG ELECTRONIC (HK) INTERNATONAL GROUP COMPANY LIMITED

Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road, Kowloon, Hong Kong

**FCC ID: 2AJGM-5RMINI**

<b>Report Type:</b> Original Report	<b>Product Name:</b> Amateur Radio
<b>Report Number:</b> 2507U08566E-RF-02	
<b>Report Date:</b> 2025-08-11	
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**REPORT REVISION HISTORY**

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507U08566E-RF-02	R1V1	2025-08-11	Initial Release

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Applicant:	PO FUNG ELECTRONIC (HK) INTERNATONAL GROUP COMPANY LIMITED	
Product Name:	Amateur Radio	
Tested Model:	UV-5R Mini	
Multiple Model(s):	5R Mini, NA-5R Mini, BF-5R Mini, AR-5R Mini, GT-5R Mini, TH5R Mini, 5R Mini-B, BF-5R Mini-B, NA-5R Mini V2	
Trade Mark:	BAOFENG, pofung, ALERVITES	
Power Supply:	DC 7.4V from battery or DC 5V from adapter	
Adapter information:	Model:	A318-050100W-US2
	Input:	AC 100-240V, 50-60Hz, 0.2A
	Output:	DC 5V, 1A
Maximum Peak Conducted Output Power:	-4.52 dBm	
Frequency Range:	2402~2480MHz	
Modulation Technique:	GFSK	
Antenna Type:	PCB Antenna	
★Maximum Antenna Gain:	0 dBi	
EUT Received Status:	Good	

*Note:*

1. The Maximum Antenna Gain was declared by manufacturer.
2. The test model is identify with the series model except for the model name, please refer to declaration letter for more detail.
2. All measurement and test data in this report was gathered from production sample serial number: 35B6-10 (RF Conducted), 35B6-11 (Conducted Emission and Radiated Emission) Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2025-07-09)

### Objective

This test report is prepared for *PO FUNG ELECTRONIC (HK) INTERNATONAL GROUP COMPANY LIMITED* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions's rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, section 15.203, 15.207, 15.205, 15.209 and 15.247 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and KDB 558074 D01 15.247 Meas Guidance v05r02.

## Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

## Measurement Uncertainty

Item	$U_{\text{lab}}$
Conducted Emission	150kHz-30MHz 2.45 dB
	9kHz-150kHz 2.82dB
	150kHz-30MHz 2.74dB
	30MHz~200MHz 3.47dB
Radiated Emission	200MHz~1GHz 4.86dB
	1GHz~6GHz 4.88dB
	6GHz~18GHz 4.95dB
	18GHz~26.5GHz 4.45dB
Occupied Channel Bandwidth	2%
Transmitter Conducted Power(Conducted RF power)	1.49 dB
Conducted Spurious Emission	2.92 dB
Power Spectral Density	2.52 dB
Duty Cycle	1 %
Temperature	1 °C
Humidity	5 %
Supply voltages	0.4 %

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## SYSTEM TEST CONFIGURATION

### Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).

Test mode:	Test mode 1: Transmitting
Test voltage:	Test mode 1: DC 5V from adapter(AC 120V/60Hz)
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

### Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

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

EUT was tested with Channel 0, 19 and 39.

### Equipment Modifications

No modification was made to the EUT tested.

## ★EUT Exercise Software

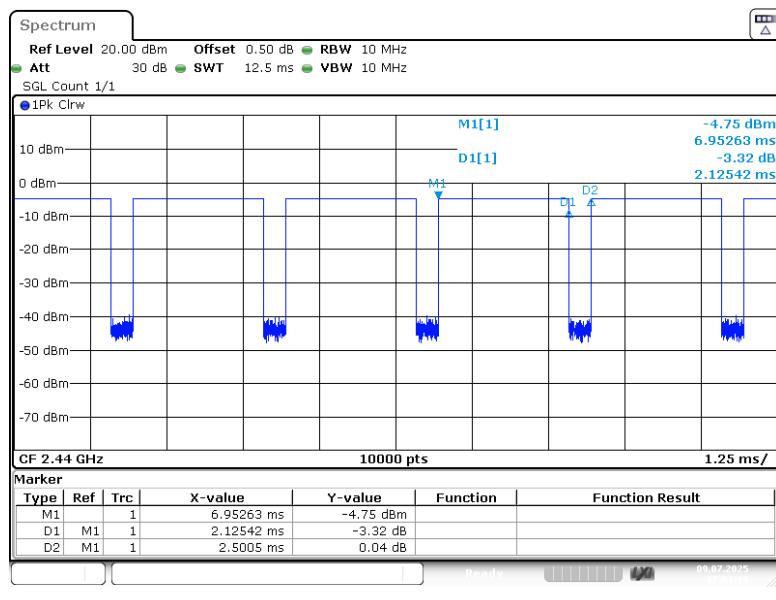
RF Test Tool: FCC\_assist1.0.4

Mode	Power level		
	Low channel	Middle channel	High channel
BLE 1Mbps	default	default	default

## Duty Cycle

Test Mode:	Transmitting	Test Engineer:	Braylon Ma			
Test Date:	2025-07-09	Test Voltage:	DC 5V from adapter (AC 120V/60Hz)			
Test Result:	Compliance	Environment:	Temp.: 24.2°C Humi.: 56% Atm :99.8kPa			
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
BLE 1Mbps	2440	2.125	2.501	84.97	471	0.50

## BLE 1Mbps Middle Channel



## Support Equipment List and Details

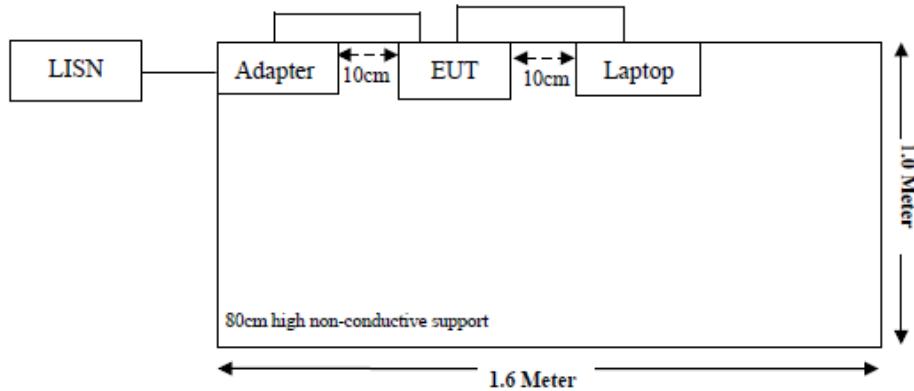
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F

## External I/O Cable

Cable Description	Length (m)	From Port	To
Audio-USB Cable	0.5	EUT	Laptop

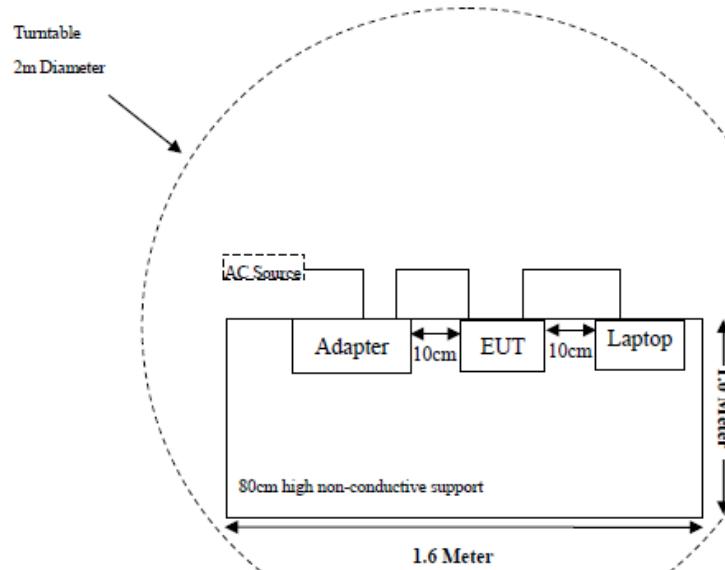
## Block Diagram of Test Setup

Conducted Emission:

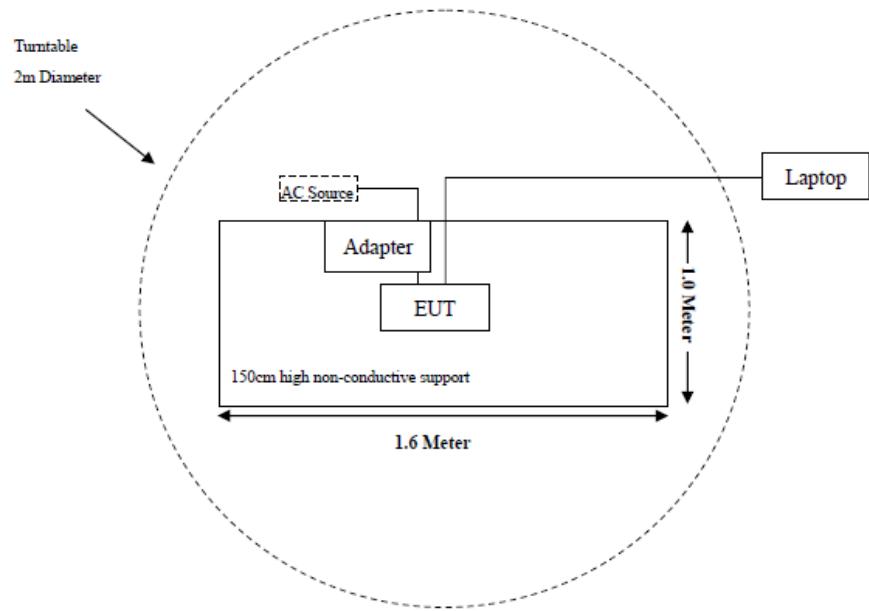


Radiated Emission:

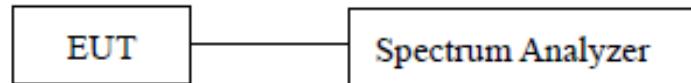
Below 1GHz:



Above 1GHz:



RF Conduction:



Note: The cable assembly insertion loss of 0.5dB was entered as an offset in the spectrum analyzer.(Actual cable loss was unavailable at the time of testing, therefore loss of 0.5dB was assumed as worst case. ) This was later verified to be true by laboratory.

**SUMMARY OF TEST RESULTS**

Standard(s)	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliance
FCC §15.207 (a)	AC Line Conducted Emissions	Compliance
FCC §15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
FCC §15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
FCC §15.247(b)(3)	Maximum Conducted Output Power	Compliance
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
FCC §15.247(e)	Power Spectral Density	Compliance

## TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
<b>AC Conducted Emission</b>					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2025/2/20	2026/2/19
LISN	Rohde & Schwarz	ENV216	100129	2025/2/20	2026/2/19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2025/2/20	2026/2/19
EMI Test software	Audix	E3	18621a	N/A	N/A
<b>Radiated Emissions Below 1GHz</b>					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
<b>Radiated Emissions Above 1 GHz</b>					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/02/20	2026/02/19
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2025/02/21	2026/02/20
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2025/02/21	2026/02/20
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2025/01/16	2026/01/15
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2025/02/20	2026/02/19
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-1840	200	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
<b>RF Conducted Test</b>					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/02/20	2026/02/19
Coaxial Cable	Lianxun	RF113	N/A	Each time	Each time

**\* Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## **FCC §15.203 - ANTENNA REQUIREMENT**

### **Applicable Standard**

According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Antenna Connector Construction**

The EUT has one PCB antenna arrangement for BLE, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

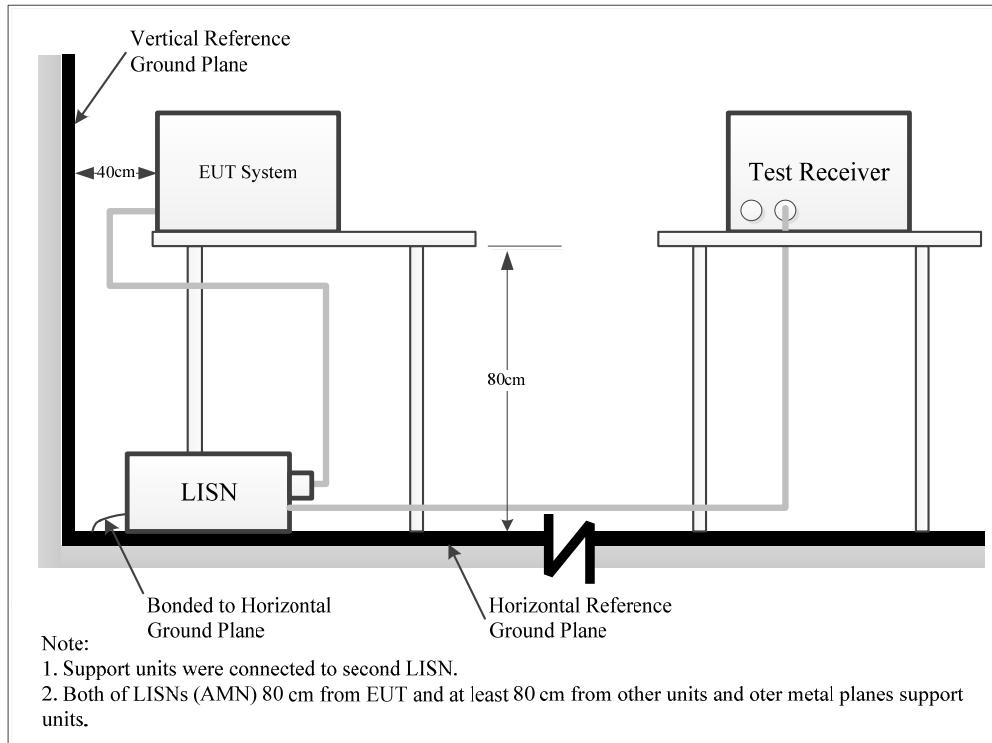
### **Result: Compliance**

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207

### EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Result & Margin Calculation

The result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Result (dB}\mu\text{V)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

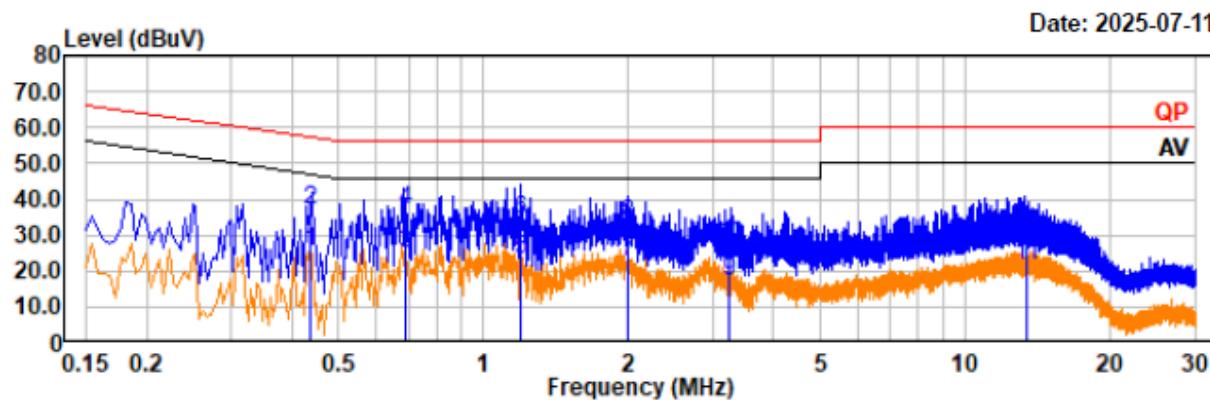
## Test Data

<b>Temperature:</b>	23.8°C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	99.8kPa
<b>Test Date:</b>	2025-07-11
<b>Test Engineer:</b>	Wlif Wu

*Note: The maximum output power mode: BLE 1Mbps high channel was tested.*

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini

Temp/Humi/ATM: 23.8°C/56%/99.8kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



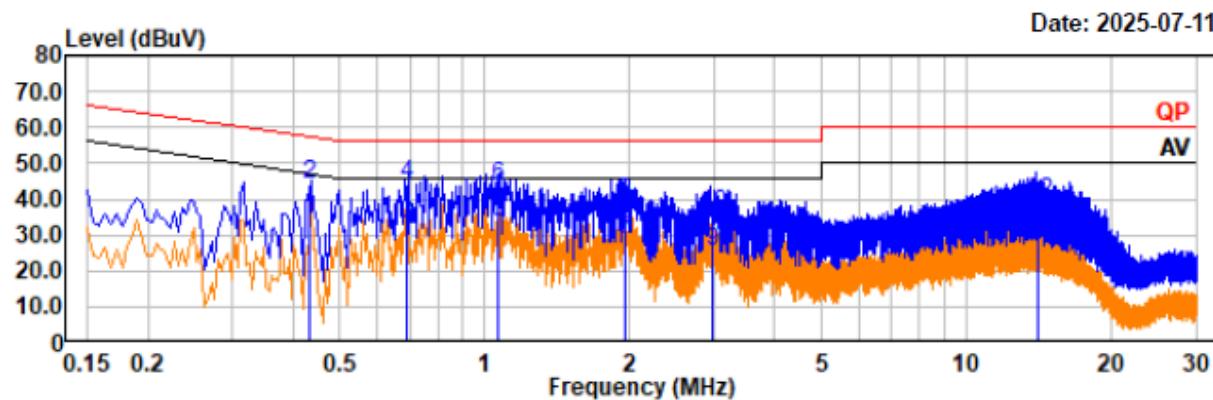
Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.439	4.84	20.33	25.17	47.09	21.92	Line	Average
0.439	16.57	20.33	36.90	57.09	20.19	Line	QP
0.692	4.23	20.49	24.72	46.00	21.28	Line	Average
0.692	16.48	20.49	36.97	56.00	19.03	Line	QP
1.197	2.40	20.97	23.37	46.00	22.63	Line	Average
1.197	13.17	20.97	34.14	56.00	21.86	Line	QP
1.992	1.39	21.13	22.52	46.00	23.48	Line	Average
1.992	12.18	21.13	33.31	56.00	22.69	Line	QP
3.239	-3.81	20.80	16.99	46.00	29.01	Line	Average
3.239	6.32	20.80	27.12	56.00	28.88	Line	QP
13.359	0.96	20.77	21.73	50.00	28.27	Line	Average
13.359	9.33	20.77	30.10	60.00	29.90	Line	QP

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini

Temp/Humi/ATM: 23.8°C/56%/99.8kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



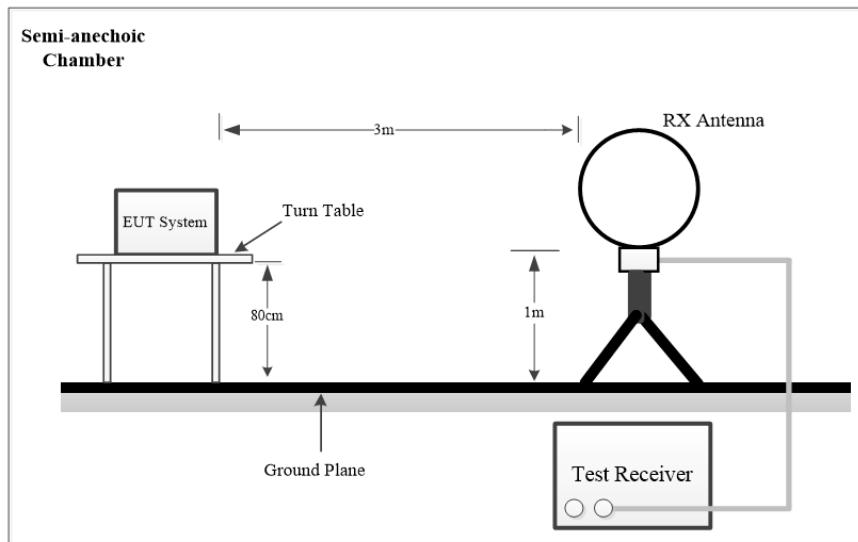
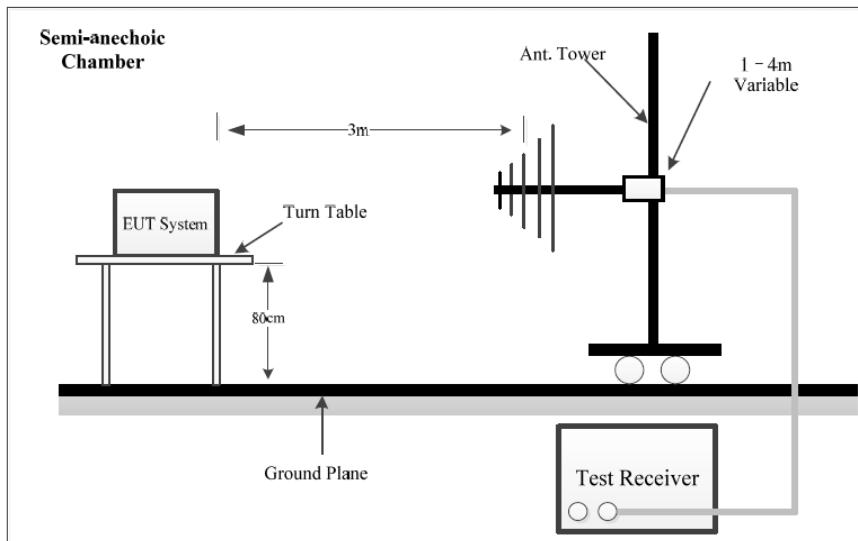
Trace: 1

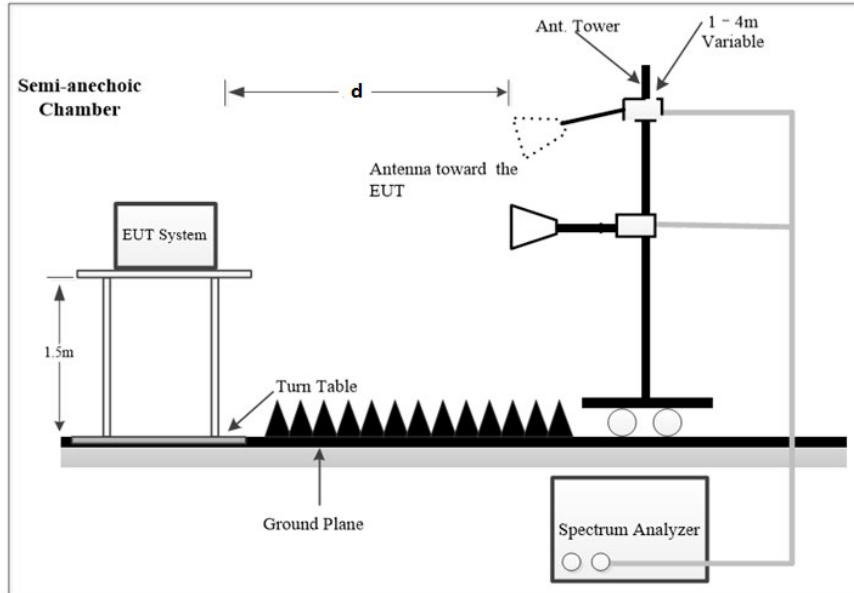
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.435	13.59	20.44	34.03	47.16	13.13	Neutral	Average
0.435	23.49	20.44	43.93	57.16	13.23	Neutral	QP
0.691	12.98	20.30	33.28	46.00	12.72	Neutral	Average
0.691	23.65	20.30	43.95	56.00	12.05	Neutral	QP
1.071	12.46	20.93	33.39	46.00	12.61	Neutral	Average
1.071	22.81	20.93	43.74	56.00	12.26	Neutral	QP
1.965	7.41	21.03	28.44	46.00	17.56	Neutral	Average
1.965	17.89	21.03	38.92	56.00	17.08	Neutral	QP
2.971	4.64	20.88	25.52	46.00	20.48	Neutral	Average
2.971	15.10	20.88	35.98	56.00	20.02	Neutral	QP
14.048	7.20	21.02	28.22	50.00	21.78	Neutral	Average
14.048	17.90	21.02	38.92	60.00	21.08	Neutral	QP

**FCC §15.209, §15.205 - SPURIOUS EMISSIONS****Applicable Standard**

FCC §15.247 (d); §15.209; §15.205

**EUT Setup****9 kHz-30MHz:****30MHz -1 GHz:**

**Above 1GHz:**

The radiated emission tests using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 limits.

NOTE: d is testing distance;

For Radiated Emission test (1GHz-18GHz) and Bandedge Emission test, which was performed at 3 m distance.

For Radiated Emission test (Above 18GHz), which was performed at 1.5 m distance, according to ANSI C63.10-2020 the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m.

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$  dB = 6 dB

**EMI Test Receiver & Spectrum Analyzer Setup**

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

**Below 1GHz:**

Frequency Range	RBW	VBW	Measurement
9 kHz – 150 kHz	300Hz	1 kHz	PK
	200Hz	/	QP
150 kHz – 30 MHz	10 kHz	30 kHz	PK
	9kHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	PK
	120kHz	/	QP

Above 1GHz:

Pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	5kHz	AV	PK
<98%	1MHz	1/T, not less than 5kHz	AV	PK

Final measurement for emission identified during the pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	10Hz	AV	PK
<98%	1MHz	1/T	AV	PK

Note: T is minimum transmission duration

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: "all emissions were greater than 20 dB below the limit."

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

## Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

For 9 kHz to 18GHz Radiated emission test

$$\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

For 18GHz to 25GHz Radiated emission test and Bandedge emissions test

$$\text{Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} - \text{Extrapolation factor (dB)}$$

Extrapolation factor=6 dB (distance=1.5m)

$$\text{Result (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB/m)}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Result (dB}\mu\text{V/m)}$$

## Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz	Antenna-port conducted emission
Temperature:	22.4°C	22.4°C	24.2°C
Relative Humidity:	58%	58%	56%
ATM Pressure:	100.1kPa	100.1kPa	99.8kPa
Test Date:	2025-08-05	2025-08-05	2025-07-09
Test Engineer:	Wlif Wu	Wlif Wu	Braylon Ma

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.

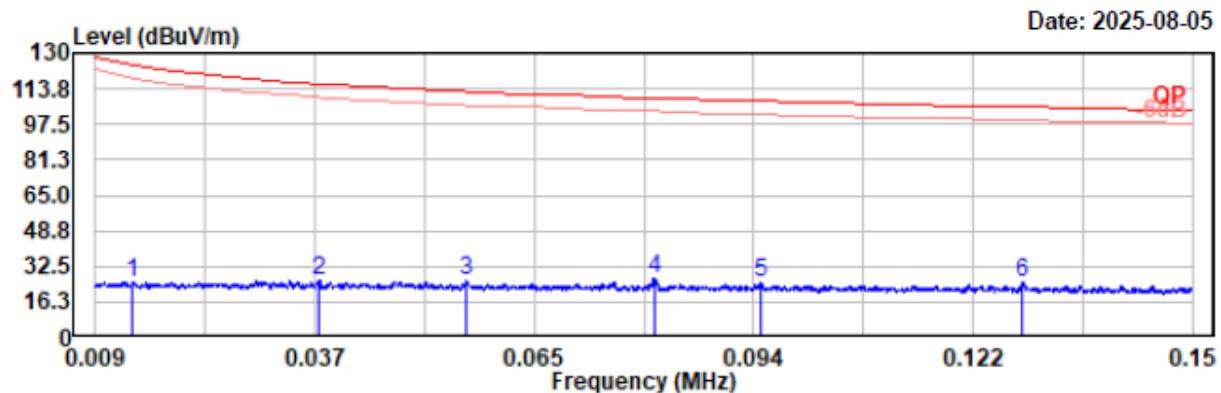
**1) 9 kHz~30MHz**

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case.

Note: The maximum output power mode: BLE 1Mbps high channel was tested.

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

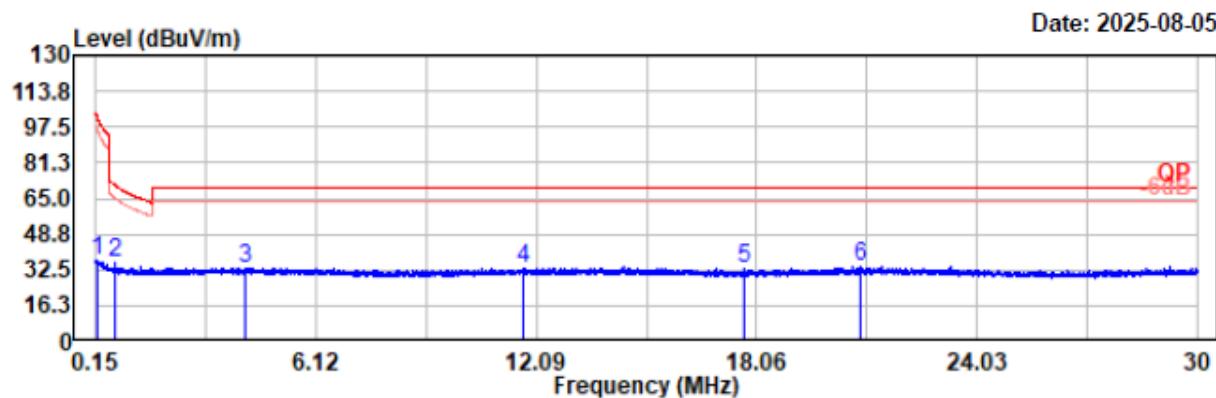


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.014	5.75	19.64	25.39	124.79	99.40	Peak
0.038	6.39	19.91	26.30	116.07	89.77	Peak
0.057	5.95	19.91	25.86	112.54	86.68	Peak
0.081	7.27	19.72	26.99	109.46	82.47	Peak
0.095	4.91	19.77	24.68	108.09	83.41	Peak
0.128	5.55	19.73	25.28	105.45	80.17	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
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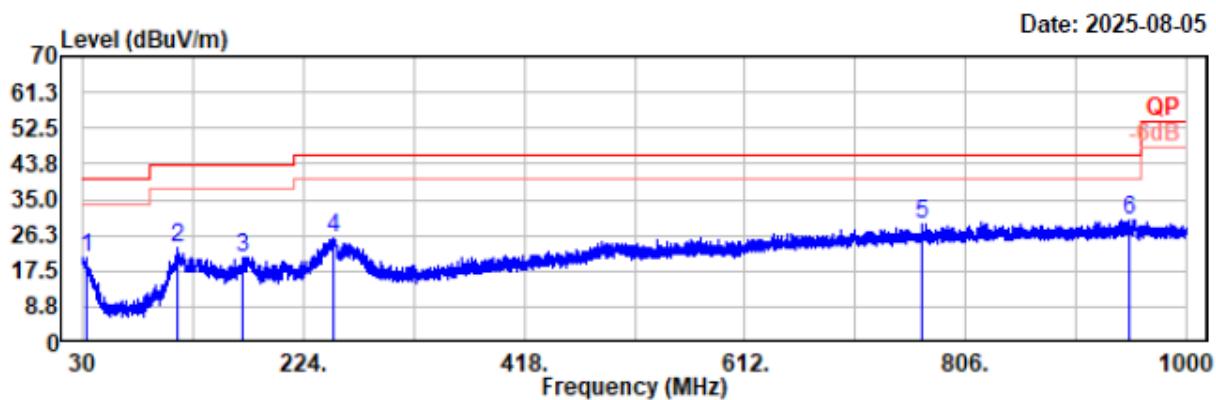
0.174	17.39	19.72	37.11	102.80	65.69	Peak
0.687	16.10	19.85	35.95	70.86	34.91	Peak
4.198	13.72	19.74	33.46	69.54	36.08	Peak
11.729	13.61	19.72	33.33	69.54	36.21	Peak
17.714	13.19	19.94	33.13	69.54	36.41	Peak
20.869	13.91	20.12	34.03	69.54	35.51	Peak

## 2) 30MHz -1GHz

Note: The maximum output power mode: BLE 1Mbps high channel was tested.

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



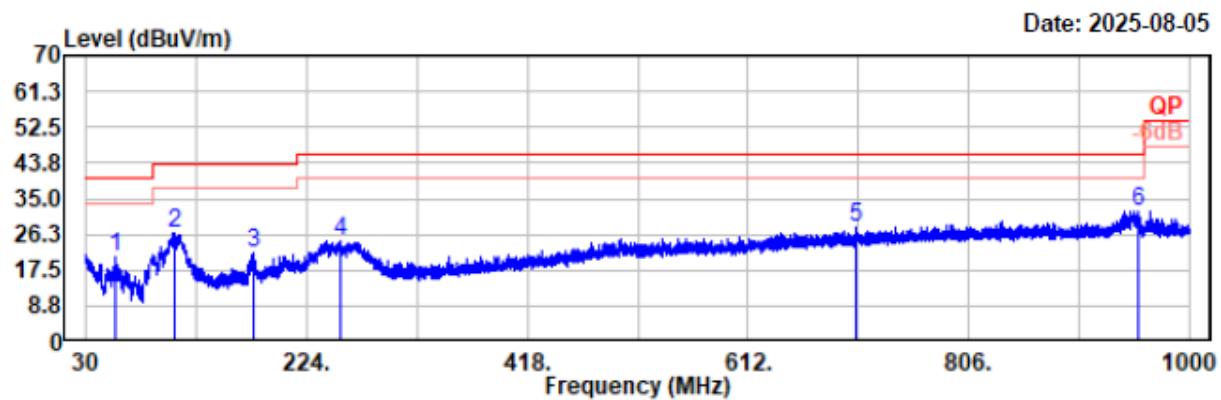
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
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33.49	28.18	-7.22	20.96	40.00	19.04	Horizontal	Peak
112.84	34.44	-11.36	23.08	43.50	20.42	Horizontal	Peak
170.17	32.87	-11.87	21.00	43.50	22.50	Horizontal	Peak
249.90	37.10	-11.41	25.69	46.00	20.31	Horizontal	Peak
767.59	28.11	0.77	28.88	46.00	17.12	Horizontal	Peak
949.37	26.97	3.14	30.11	46.00	15.89	Horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



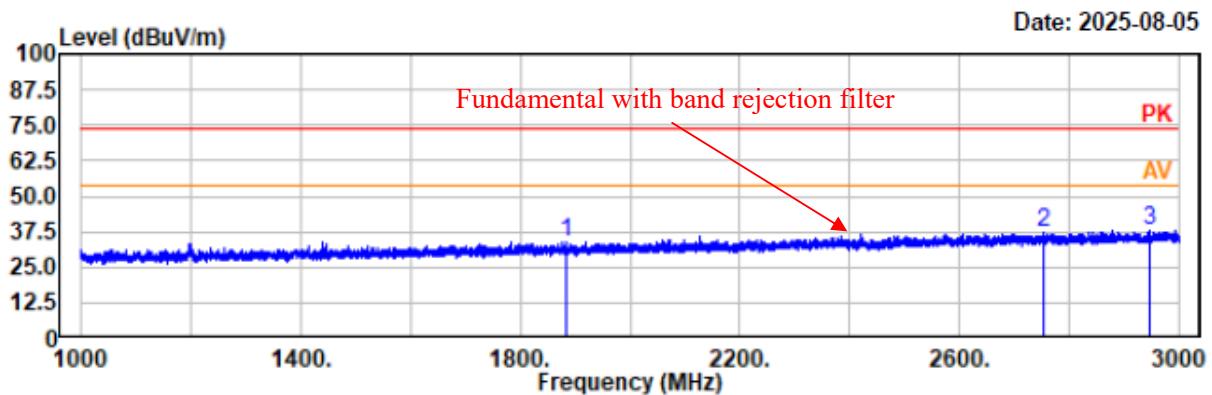
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
55.71	38.69	-17.79	20.90	40.00	19.10	Vertical	Peak
107.12	39.15	-12.70	26.45	43.50	17.05	Vertical	Peak
176.66	33.66	-12.17	21.49	43.50	22.01	Vertical	Peak
253.29	36.11	-11.39	24.72	46.00	21.28	Vertical	Peak
707.64	28.29	-0.14	28.15	46.00	17.85	Vertical	Peak
954.51	28.49	3.25	31.74	46.00	14.26	Vertical	Peak

### 3) 1GHz~3GHz

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2402MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C /58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

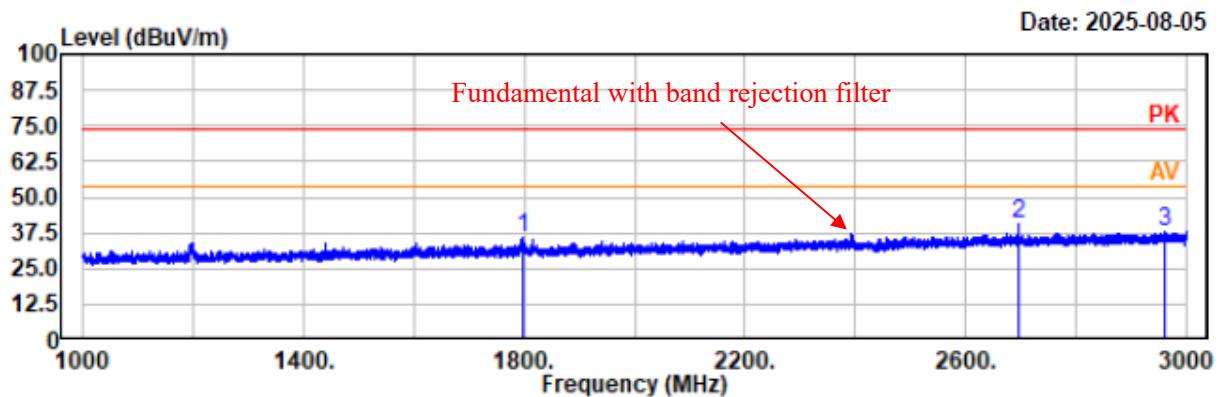


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1882.60	46.97	-13.00	33.97	74.00	40.03	horizontal	Peak
2752.00	46.95	-9.93	37.02	74.00	36.98	horizontal	Peak
2946.40	47.04	-9.23	37.81	74.00	36.19	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2402MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

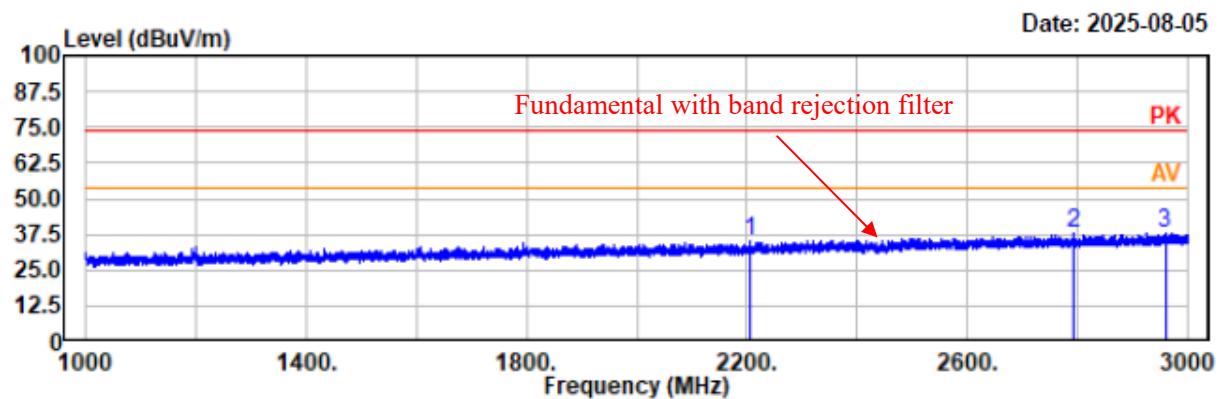


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1797.20	49.39	-13.24	36.15	74.00	37.85	vertical	Peak
2697.40	50.39	-10.01	40.38	74.00	33.62	vertical	Peak
2962.40	47.30	-9.14	38.16	74.00	35.84	vertical	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2440MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

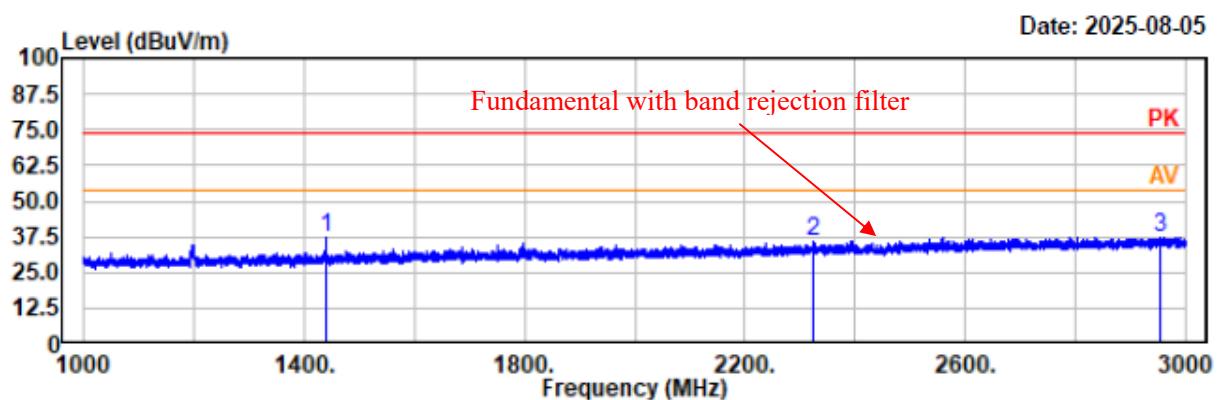


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2205.80	47.15	-11.93	35.22	74.00	38.78	horizontal	Peak
2793.00	47.50	-9.81	37.69	74.00	36.31	horizontal	Peak
2959.60	47.01	-9.16	37.85	74.00	36.15	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2440MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C / 58% / 100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

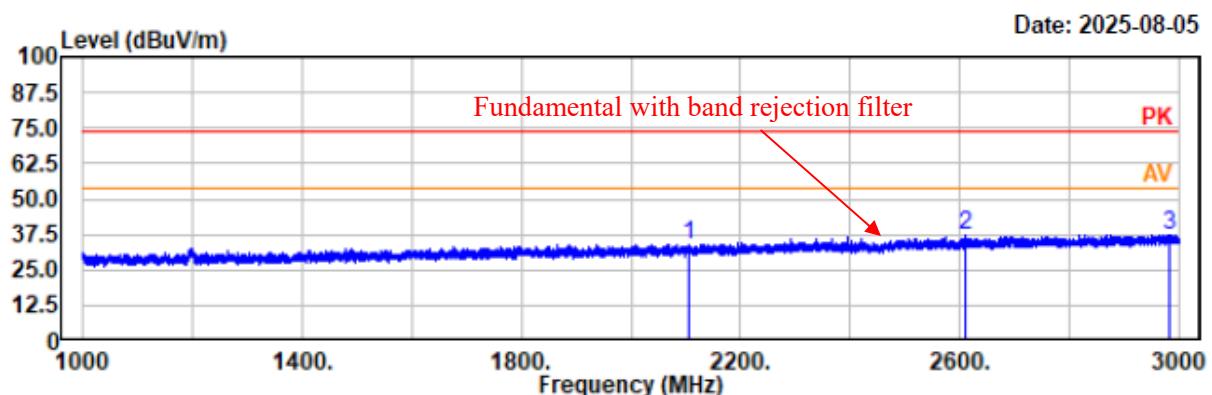


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1440.80	51.65	-14.56	37.09	74.00	36.91	vertical	Peak
2325.40	46.94	-11.37	35.57	74.00	38.43	vertical	Peak
2952.60	46.74	-9.19	37.55	74.00	36.45	vertical	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

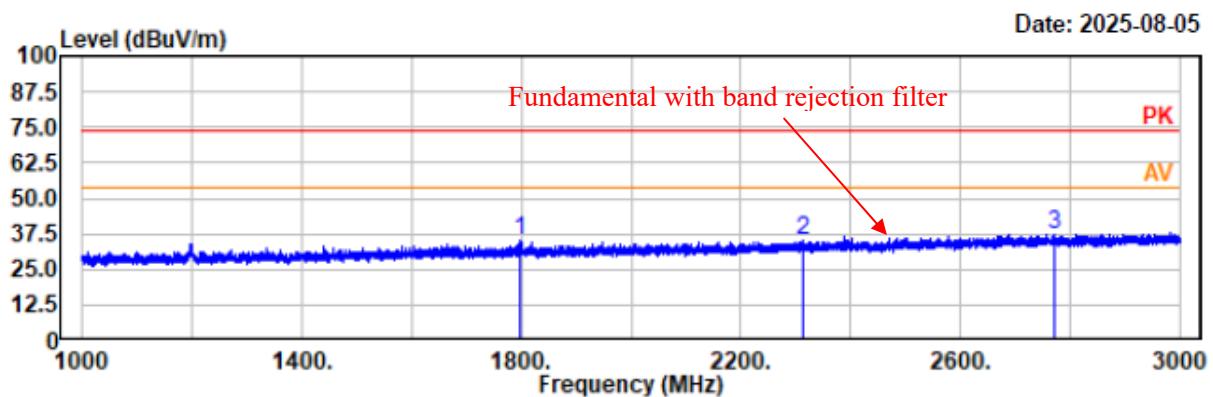


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2107.20	46.20	-12.22	33.98	74.00	40.02	horizontal	Peak
2611.20	47.70	-10.35	37.35	74.00	36.65	horizontal	Peak
2983.80	46.31	-9.02	37.29	74.00	36.71	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



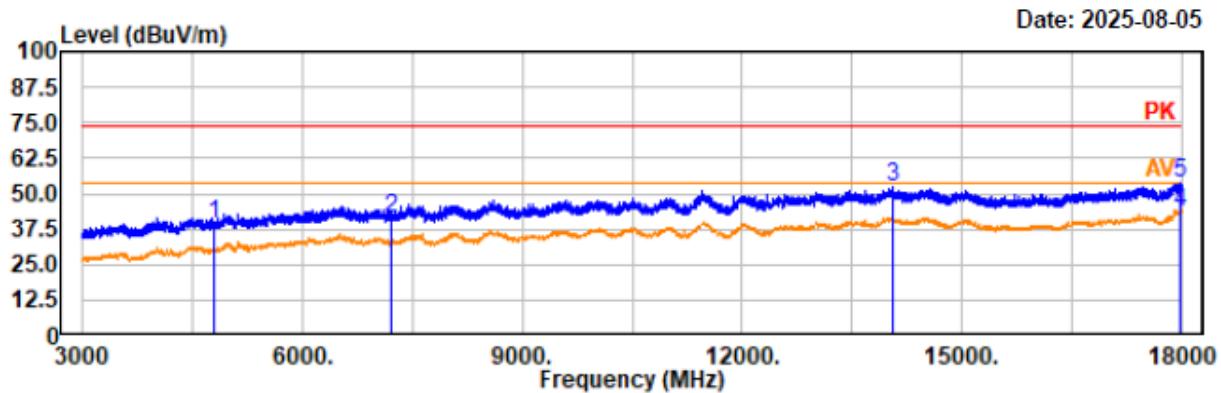
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1797.40	48.67	-13.24	35.43	74.00	38.57	vertical	Peak
2313.60	46.24	-11.39	34.85	74.00	39.15	vertical	Peak
2770.00	47.43	-9.88	37.55	74.00	36.45	vertical	Peak

## 4) 3GHz~18GHz

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2402MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

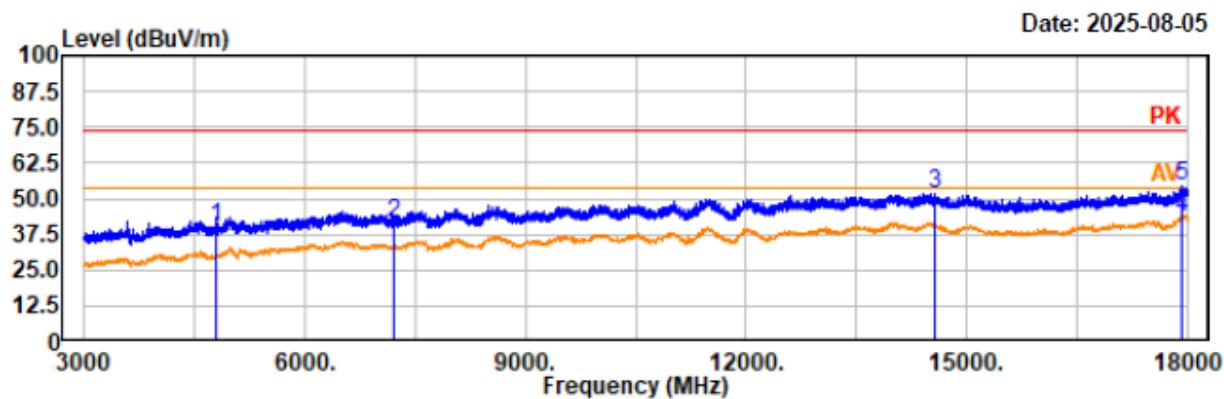
Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.21	-5.24	38.97	74.00	35.03	horizontal	Peak
7206.00	43.88	-2.55	41.33	74.00	32.67	horizontal	Peak
14047.50	47.12	5.27	52.39	74.00	21.61	horizontal	Peak
17989.50	36.72	6.90	43.62	54.00	10.38	horizontal	Average
17989.50	46.65	6.90	53.55	74.00	20.45	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2402MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

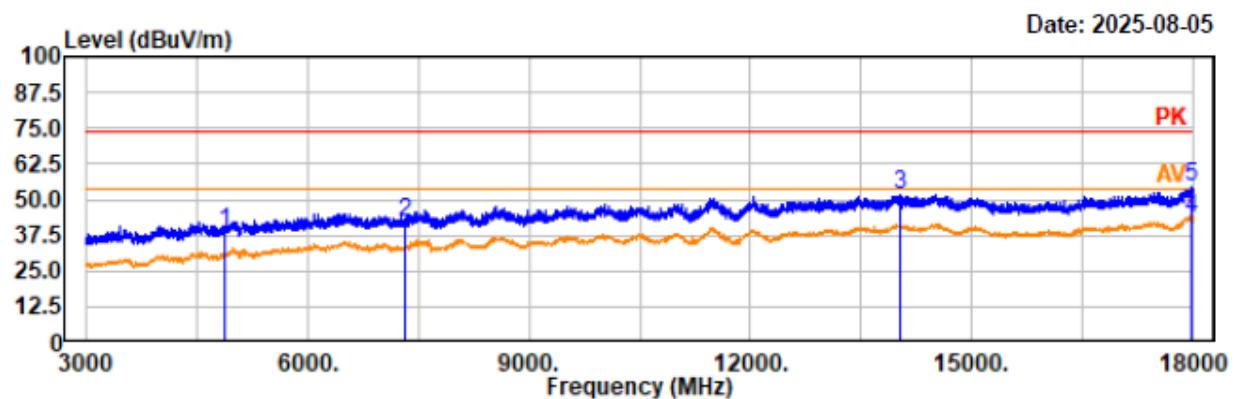
Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	45.08	-5.24	39.84	74.00	34.16	vertical	Peak
7206.00	44.21	-2.55	41.66	74.00	32.34	vertical	Peak
14578.50	46.73	5.02	51.75	74.00	22.25	vertical	Peak
17934.00	36.40	6.83	43.23	54.00	10.77	vertical	Average
17934.00	47.35	6.83	54.18	74.00	19.82	vertical	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2440MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



Trace: 1

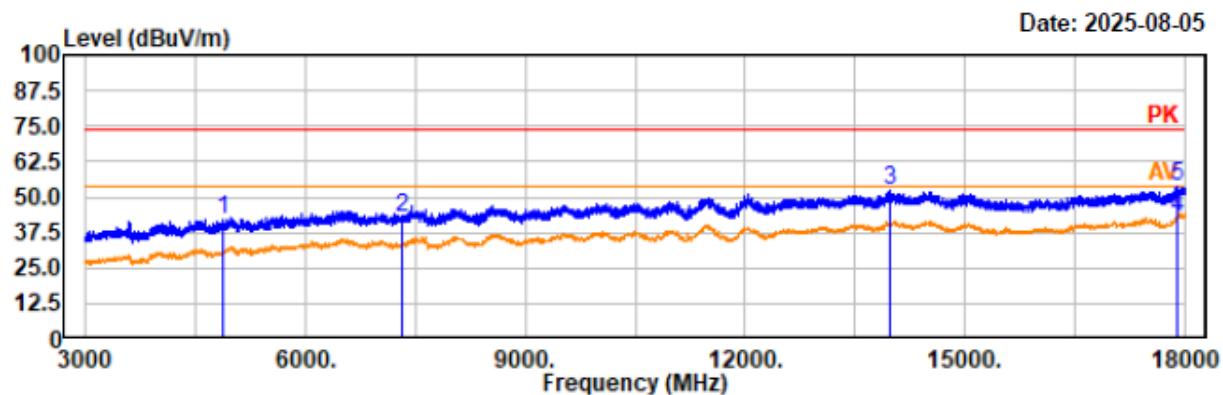
Condition: PK RBW:1MHz VBW:3MHz SWT:auto  
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
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4880.00	43.98	-5.30	38.68	74.00	35.32	horizontal	Peak
7320.00	44.11	-2.25	41.86	74.00	32.14	horizontal	Peak
14026.50	46.46	5.23	51.69	74.00	22.31	horizontal	Peak
17983.50	36.46	6.89	43.35	54.00	10.65	horizontal	Average
17983.50	47.28	6.89	54.17	74.00	19.83	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2440MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



Trace: 1

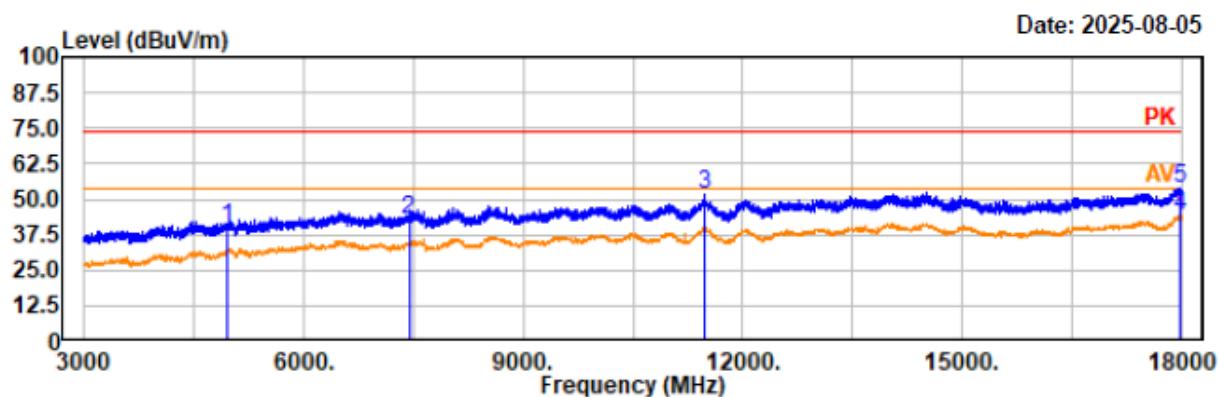
Condition: PK RBW:1MHz VBW:3MHz SWT:auto  
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
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4880.00	47.26	-5.30	41.96	74.00	32.04	vertical	Peak
7320.00	45.02	-2.25	42.77	74.00	31.23	vertical	Peak
13968.00	47.17	5.19	52.36	74.00	21.64	vertical	Peak
17899.50	36.04	6.81	42.85	54.00	11.15	vertical	Average
17899.50	47.05	6.81	53.86	74.00	20.14	vertical	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



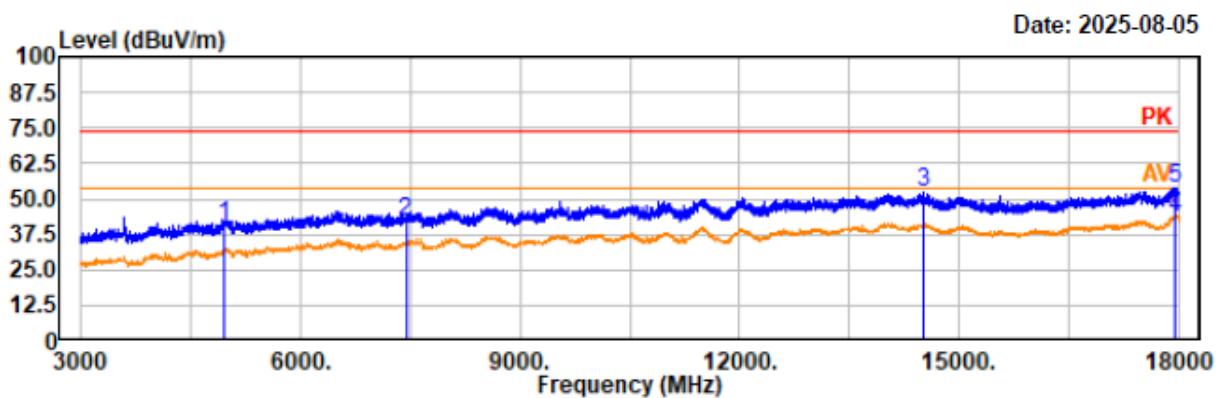
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto  
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	44.84	-5.11	39.73	74.00	34.27	horizontal	Peak
7440.00	45.04	-2.03	43.01	74.00	30.99	horizontal	Peak
11482.50	48.40	3.11	51.51	74.00	22.49	horizontal	Peak
17986.50	37.12	6.89	44.01	54.00	9.99	horizontal	Average
17986.50	46.96	6.89	53.85	74.00	20.15	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto  
AV RBW:1MHz VBW:5kHz SWT:auto

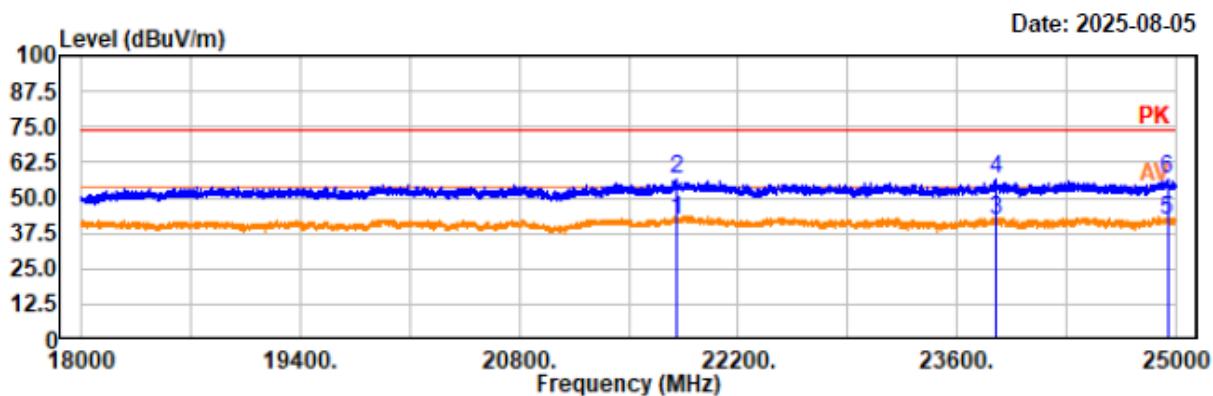
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	46.09	-5.11	40.98	74.00	33.02	vertical	Peak
7440.00	44.35	-2.03	42.32	74.00	31.68	vertical	Peak
14514.00	47.59	5.07	52.66	74.00	21.34	vertical	Peak
17940.00	36.61	6.84	43.45	54.00	10.55	vertical	Average
17940.00	47.21	6.84	54.05	74.00	19.95	vertical	Peak

## 5) Above 18GHz

Note: The maximum output power mode: BLE 1Mbps high channel was tested.

Project No.: 2507U08566E-RF  
 Test Mode: BLE 1M 2480MHz  
 EUT Model: UV-5R Mini  
 Test distance: 1.5m

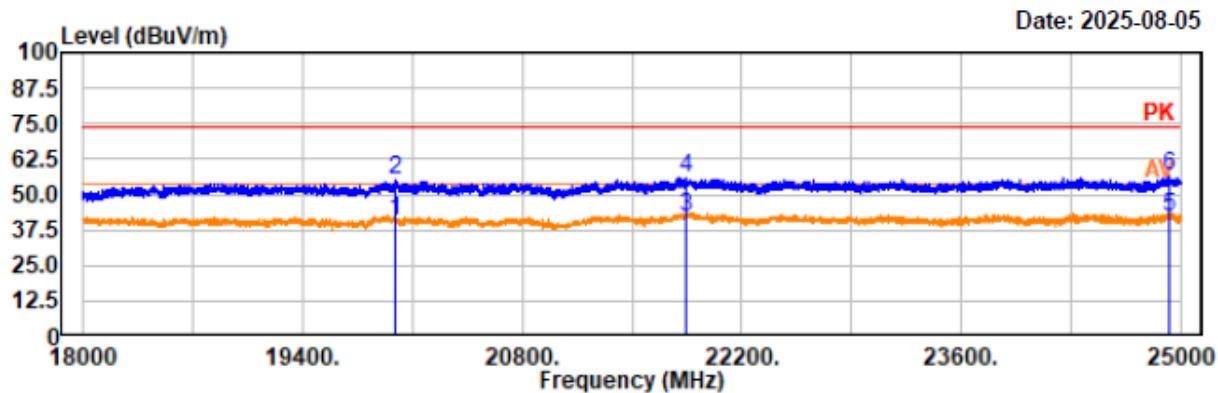
Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
 Tested by: Wlif Wu  
 Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21806.30	36.91	5.02	41.93	54.00	12.07	horizontal	Average
21806.30	51.20	5.02	56.22	74.00	17.78	horizontal	Peak
23844.60	36.71	5.30	42.01	54.00	11.99	horizontal	Average
23844.60	50.92	5.30	56.22	74.00	17.78	horizontal	Peak
24946.20	35.72	6.32	42.04	54.00	11.96	horizontal	Average
24946.20	49.93	6.32	56.25	74.00	17.75	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 1.5m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



Trace: 1

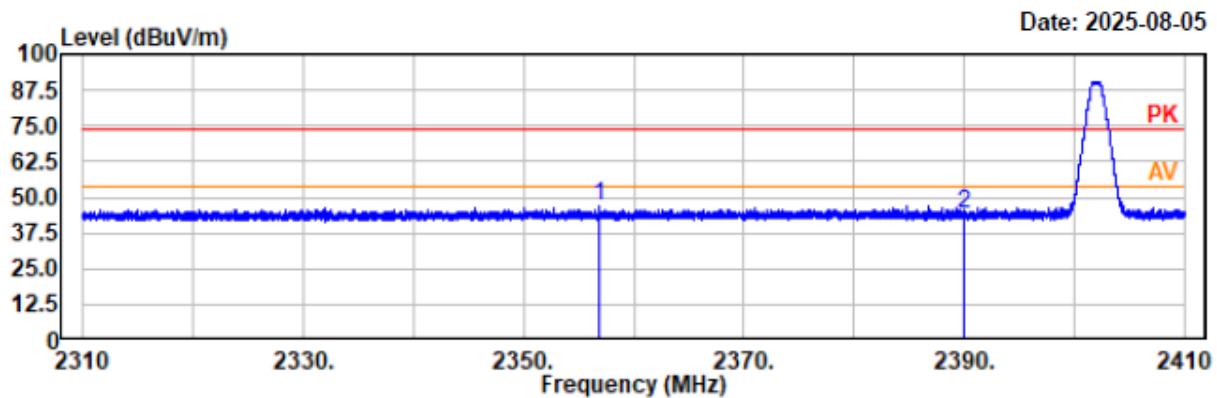
Condition: PK RBW:1MHz VBW:3MHz SWT:auto  
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
19995.80	37.47	3.53	41.00	54.00	13.00	vertical	Average
19995.80	51.51	3.53	55.04	74.00	18.96	vertical	Peak
21848.80	37.22	5.01	42.23	54.00	11.77	vertical	Average
21848.80	50.81	5.01	55.82	74.00	18.18	vertical	Peak
24925.80	35.51	6.31	41.82	54.00	12.18	vertical	Average
24925.80	49.96	6.31	56.27	74.00	17.73	vertical	Peak

**Restricted Bands Emissions:**

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2402MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

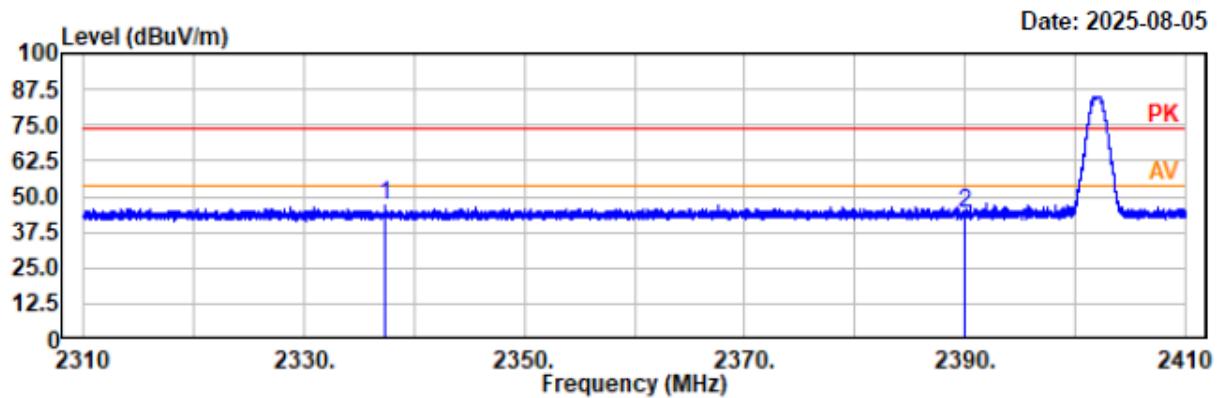


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2356.90	47.85	-1.29	46.56	74.00	27.44	horizontal	Peak
2390.00	45.40	-1.15	44.25	74.00	29.75	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2402MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4 °C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

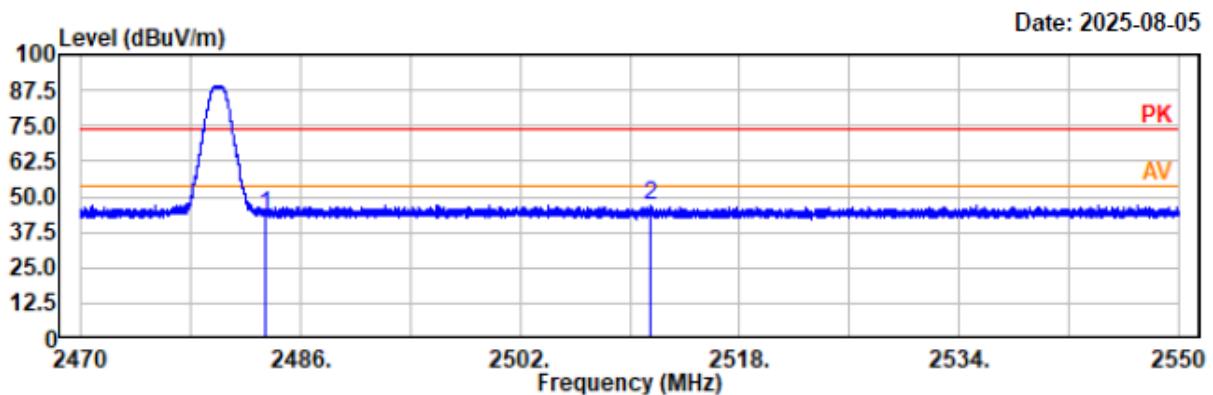


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2337.37	48.19	-1.35	46.84	74.00	27.16	vertical	Peak
2390.00	45.17	-1.15	44.02	74.00	29.98	vertical	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz

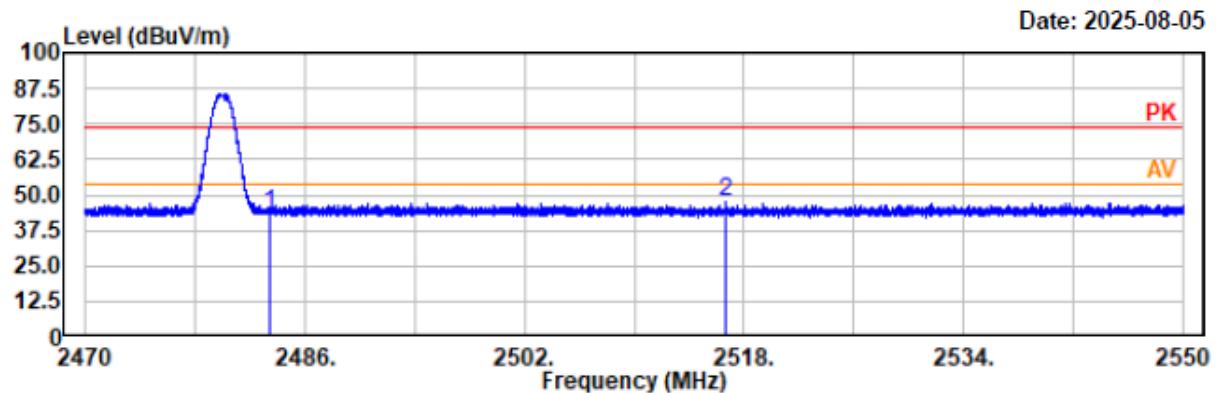


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.27	-0.77	43.50	74.00	30.50	horizontal	Peak
2511.54	47.43	-0.68	46.75	74.00	27.25	horizontal	Peak

Project No.: 2507U08566E-RF  
Test Mode: BLE 1M 2480MHz  
EUT Model: UV-5R Mini  
Test distance: 3m

Temp/Humi/ATM: 22.4°C/58%/100.1kPa  
Tested by: Wlif Wu  
Power Source: AC 120V/60Hz



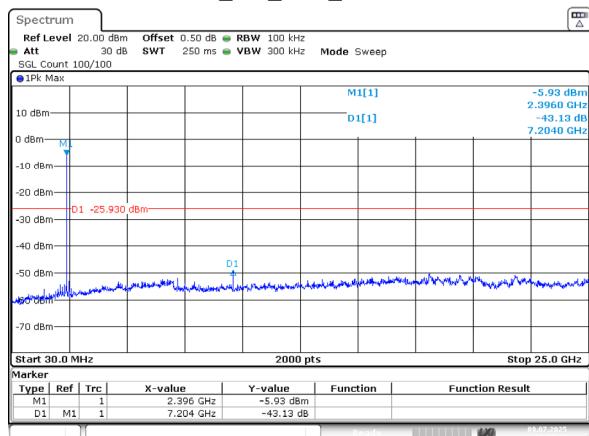
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.50	-0.77	43.73	74.00	30.27	vertical	Peak
2516.66	48.05	-0.67	47.38	74.00	26.62	vertical	Peak

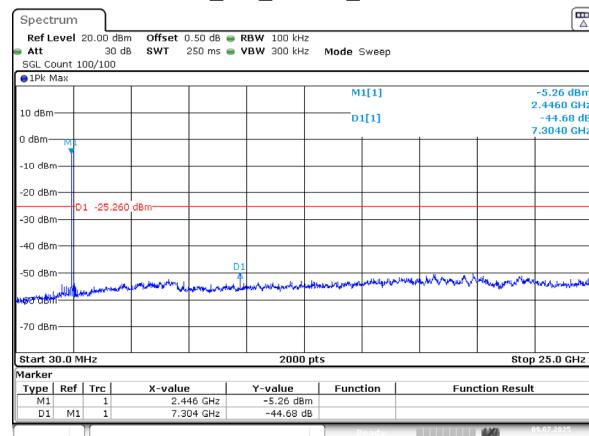
## Antenna-port conducted emission:

### BLE 1M

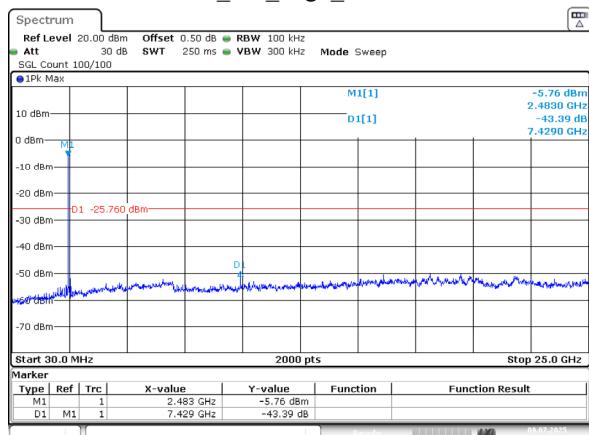
#### BLE\_1M\_Low\_Channel



#### BLE\_1M\_Middle\_Channel



#### BLE\_1M\_High\_Channel



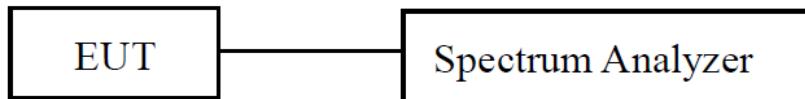
## FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH

### Applicable Standard

FCC§15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### EUT Setup



### Test Procedure

According to ANSI C63.10-2020 Section 11.8

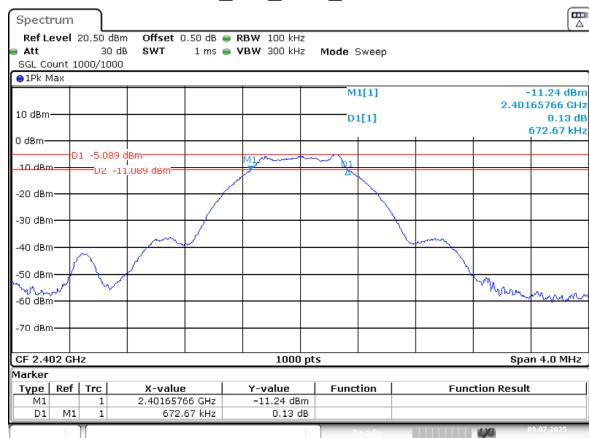
- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

### Test Data

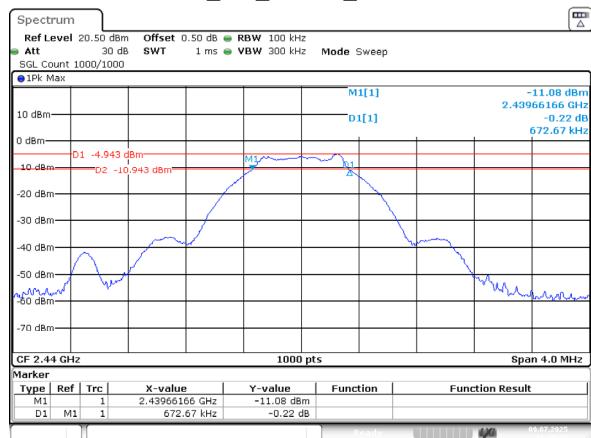
<b>Test Mode:</b>	Transmitting	<b>Test Engineer:</b>	Braylon Ma
<b>Test Date:</b>	2025-07-09	<b>Test Voltage:</b>	DC 5V from Adapter (AC 120V/60Hz)
<b>Test Result:</b>	Compliance	<b>Environment:</b>	Temp.: 24.2°C Humi.: 56% Atm : 99.8kPa
<b>Test Modes</b>	<b>Test Frequency (MHz)</b>	<b>6 dB Bandwidth (MHz)</b>	<b>Limit (MHz)</b>
BLE 1Mbps	2402	0.673	$\geq 0.5$
	2440	0.673	$\geq 0.5$
	2480	0.677	$\geq 0.5$

## BLE 1M

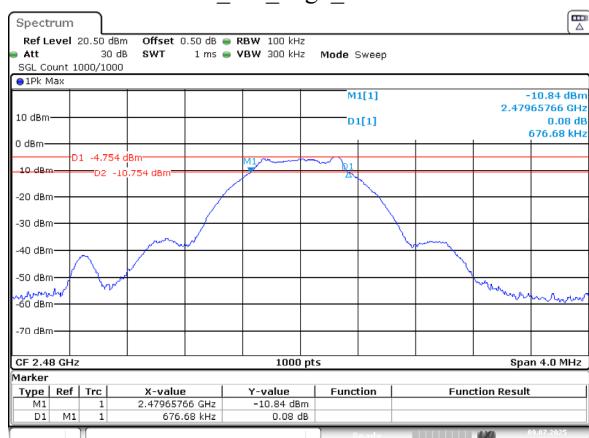
## BLE\_1M\_Low\_Channel



## BLE\_1M\_Middle\_Channel

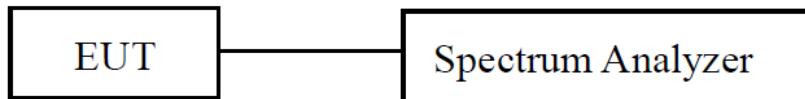


## BLE\_1M\_High\_Channel



**FCC §15.247(b) (3) – MAXIMUM CONDUCTED OUTPUT POWER****Applicable Standard**

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

**EUT Setup****Test Procedure**

According to ANSI C63.10-2020 Section 11.9.1.1  
the DTS bandwidth is available to perform the measurement:

- a) Set the  $RBW \geq DTS$  bandwidth.
- b) Set  $VBW \geq [3 \times RBW]$ .
- c) Set span  $\geq [3 \times RBW]$ .
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

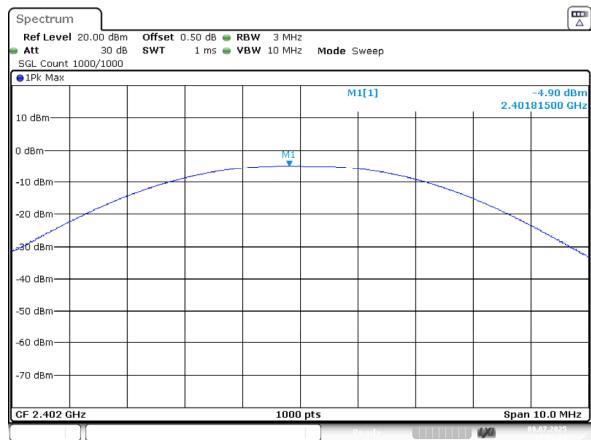
## Test Data

<b>Test Mode:</b>	Transmitting	<b>Test Engineer:</b>	Braylon Ma
<b>Test Date:</b>	2025-07-09	<b>Test Voltage:</b>	DC 5V from Adapter (AC 120V/60Hz)
<b>Test Result:</b>	Compliance	<b>Environment:</b>	Temp.: 24.2°C Humi.: 56% Atm : 99.8kPa
<b>Test Modes</b>	<b>Test Frequency (MHz)</b>	<b>Maximum Peak Conducted Output Power(dBm)</b>	<b>Limit (dBm)</b>
BLE 1Mbps	2402	-4.9	≤30
	2440	-4.74	≤30
	2480	-4.52	≤30
<b>Antenna gain(dBi):</b>	0	<b>Max.EIRP(dBm):</b>	-4.52

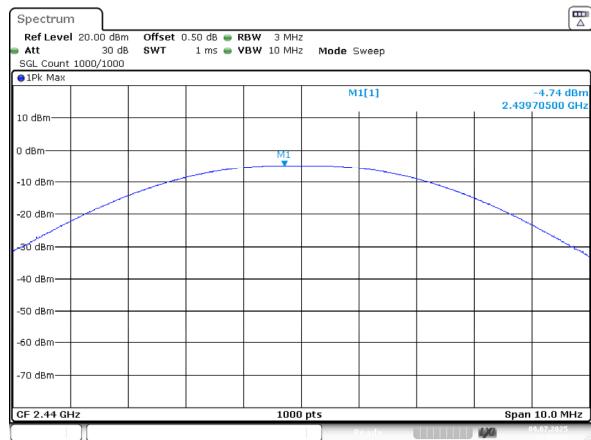
Please refer to the below plots:

### BLE 1M

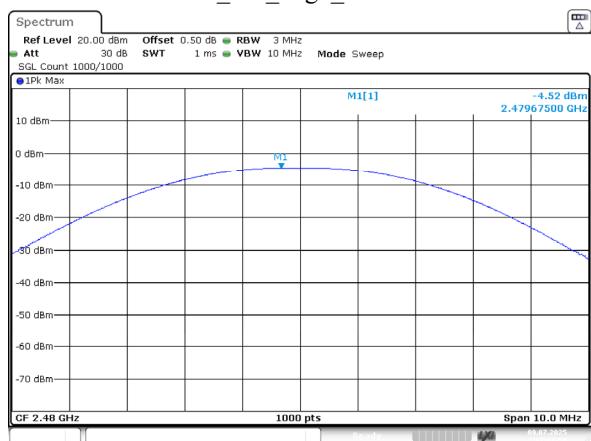
BLE\_1M\_Low\_Channel



BLE\_1M\_Middle\_Channel



BLE\_1M\_High\_Channel



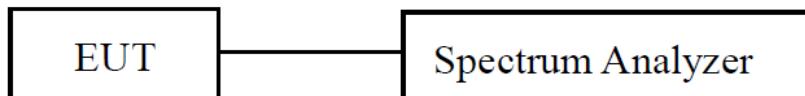
## FCC §15.247(d) 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

### Applicable Standard

#### FCC §15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### EUT Setup



### Test Procedure

According to ANSI C63.10-2020 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.  
NOTE—the number of points can also be increased for large spans to retain frequency resolution
- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

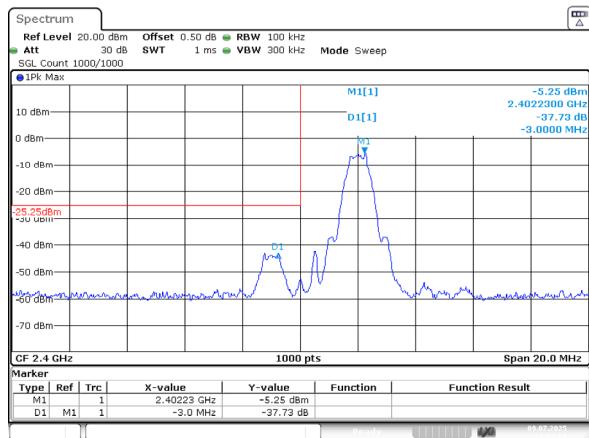
## Test Data

<b>Test Mode:</b>	Transmitting	<b>Test Engineer:</b>	Braylon Ma
<b>Test Date:</b>	2025-07-09	<b>Test Voltage:</b>	DC 5V from Adapter (AC 120V/60Hz)
<b>Test Result:</b>	Compliance	<b>Environment:</b>	Temp.: 24.2°C Humi.: 56% Atm : 99.8kPa

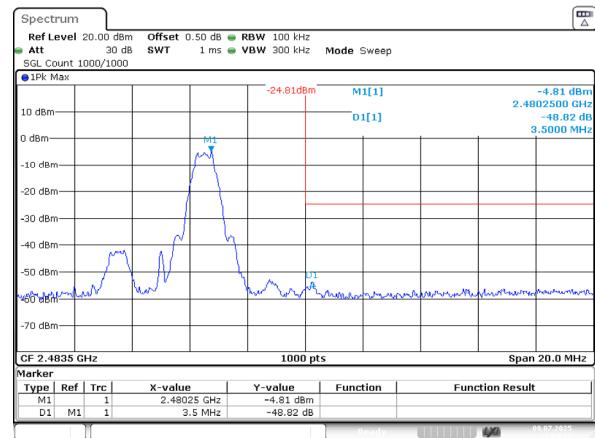
Please refer to the below plots:

### BLE 1M

#### BLE\_1M\_Low\_Channel



#### BLE\_1M\_High\_Channel



ProjectNo.:2507U08566E-RF Tester:Braylon Ma  
Date: 9.JUL.2025 17:02:59

ProjectNo.:2507U08566E-RF Tester:Braylon Ma  
Date: 9.JUL.2025 17:09:19

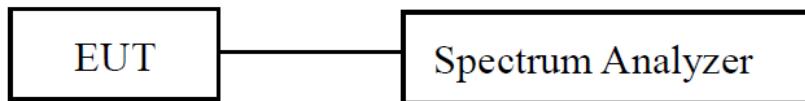
## FCC §15.247(e) - POWER SPECTRAL DENSITY

### Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### EUT Setup



### Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

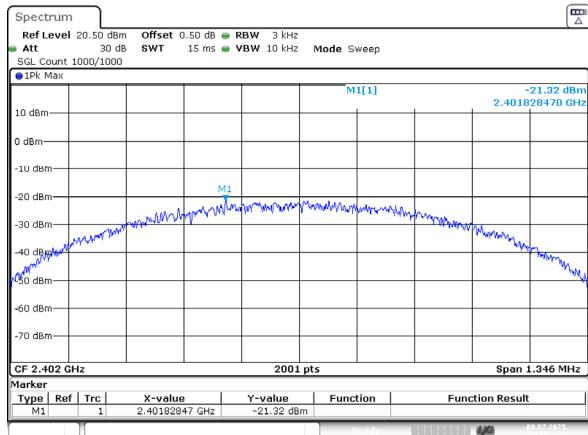
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

## Test Data

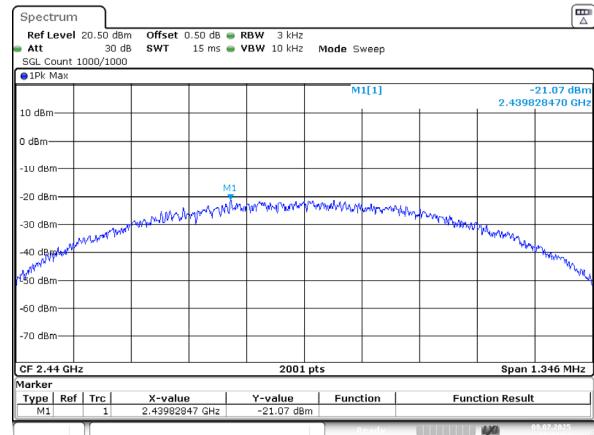
<b>Test Mode:</b>	Transmitting	<b>Test Engineer:</b>	Braylon Ma
<b>Test Date:</b>	2025-07-09	<b>Test Voltage:</b>	DC 5V from Adapter (AC 120V/60Hz)
<b>Test Result:</b>	Compliance	<b>Environment:</b>	Temp.: 24.2°C Humi.: 56% Atm : 99.8kPa
<b>Test Modes</b>	<b>Test Frequency (MHz)</b>	<b>Power Spectral Density (dBm/3kHz)</b>	<b>Limit (dBm/3kHz)</b>
BLE 1Mbps	2402	-21.32	≤8.00
	2440	-21.07	≤8.00
	2480	-20.91	≤8.00

## BLE 1M

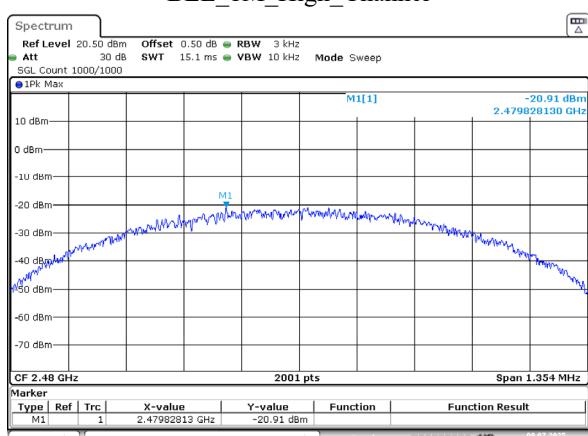
### BLE\_1M\_Low\_Channel



### BLE\_1M\_Middle\_Channel



### BLE\_1M\_High\_Channel



## **EUT PHOTOGRAPHS**

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Please refer to the attachment 2507U08566E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507U08566E-RF-INP EUT INTERNAL PHOTOGRAPHS.

## TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507U08566E-RF-TSP-02 TEST SETUP PHOTOGRAPHS\_PART 15.247

## Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $k=2$  with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

\*\*\*\*\* **END OF REPORT** \*\*\*\*\*