



FCC PART 15.247

TEST REPORT

For

PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED

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FCC ID: 2AJGM-UV7B

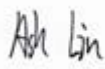
Report Type: Original Report	Product Name: Amateur Radio
Report Number:	2507V24134E-RF-02
Report Date:	2025-12-12
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507V24134E-RF-02	R1V1	2025-12-12	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Applicant:		PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED
Product Name:		Amateur Radio
Tested Model:		UV-7B
Multiple Model(s):		UV17 BT
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 5.0V, 1.0A
Maximum Conducted Output Peak Power:		-2.84dBm
Frequency Range:		2402-2480MHz
Modulation Technique:		GFSK
Antenna Type:		PCB antenna
★Maximum Antenna Gain:		0dBi
EUT Received Status:		Good
<i>Note:</i> 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. 3. All measurement and test data in this report was gathered from production sample serial number: 379N-5(RF conducted), 379N-6(Conducted Emission and Radiated Spurious Emission) (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2025-07-23)		

Objective

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

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

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Xiamen).

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_{lab}
Conducted Emission	150kHz-30MHz	2.45 dB
Radiated Spurious Emission	9kHz-150kHz	2.82dB
	150kHz-30MHz	2.74dB
	30MHz~200MHz	3.47dB
	200MHz~1GHz	4.86dB
	1GHz~6GHz	4.88dB
	6GHz~18GHz	4.95dB
	18GHz~40GHz	4.45dB
Occupied Channel Bandwidth		2%
Transmitter Conducted Power(Conducted RF power)		± 1.49 dB
Conducted Spurious Emission		± 2.92 dB
Power Spectral Density		± 0.61 dB
Duty Cycle		1%
Temperature		$\pm 1^{\circ}\text{C}$
Humidity		$\pm 5\%$
Supply voltages		$\pm 0.4\%$

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:	Transmitting
Test voltage:	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: RFTTest 0720 boxed

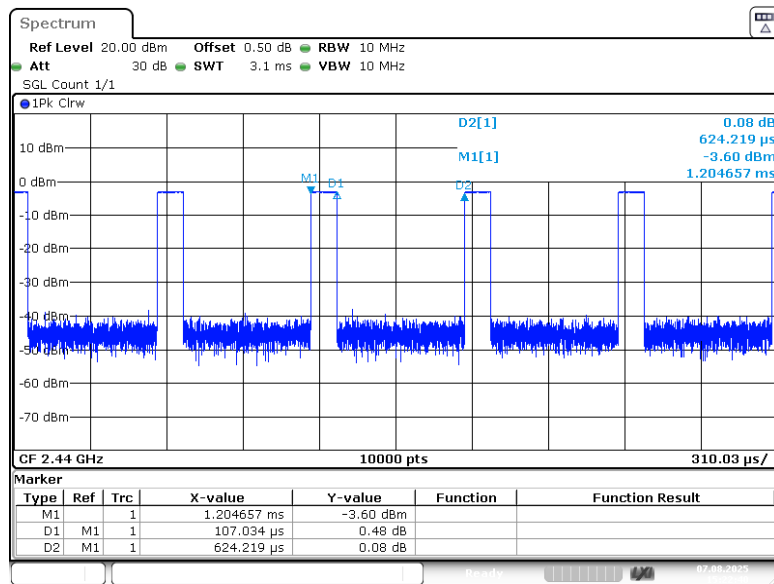
Mode	Power level		
	Low channel	Middle channel	High channel
BLE 1Mbps	0x0B	0x0B	0x0B

Note: the applicant declared the power level.

Duty cycle

Test Mode:		Transmitting		Test Engineer:		Braylon Ma
Test Date:		2025-08-07		Environment:		Temp.: 25.1°C Humi.: 63% Atm :100.3 kPa
Test Modes	Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
BLE 1Mbps	2440	0.107	0.624	17.15	9346	10.00

BLE 1Mbps: Middle Channel



Support Equipment List and Details

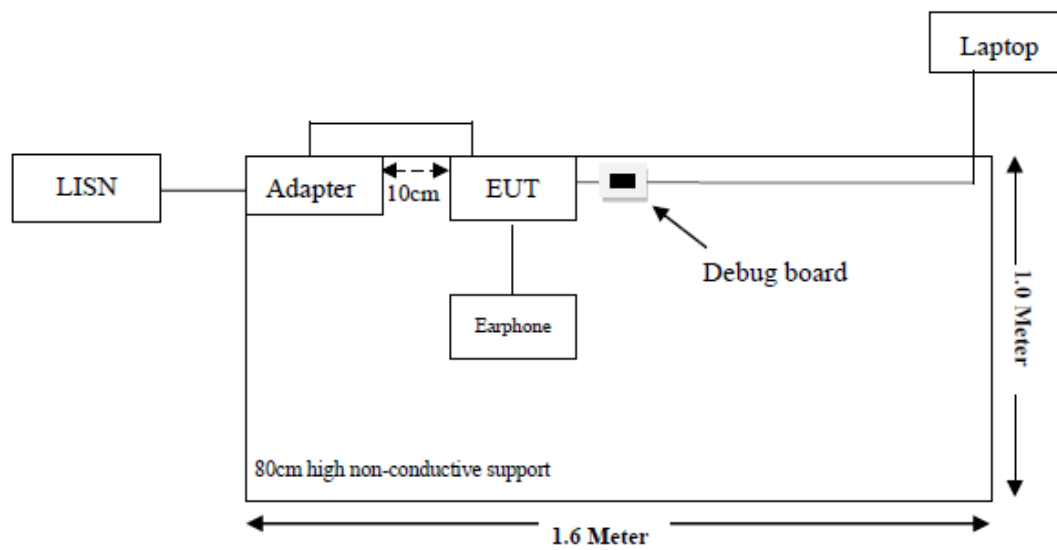
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F
Unknown	Earphone	Unknown	Unknown
Unknown	Debug board	Unknown	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
USB Cable	10	Debug board	Laptop
Jumper Wire	0.2	EUT	Debug board

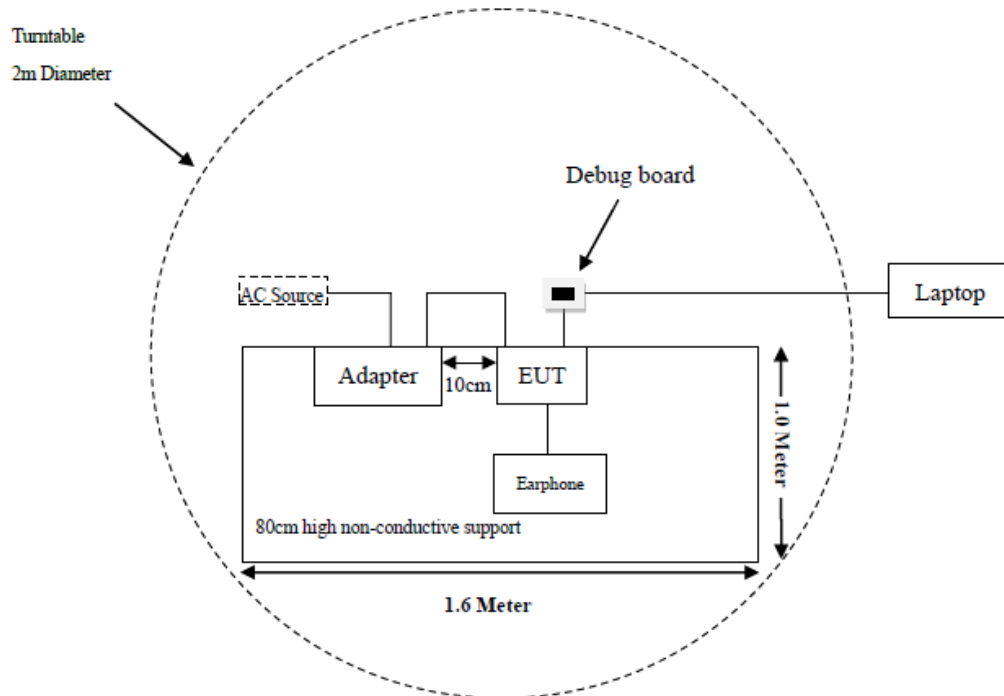
Block Diagram of Test Setup

Conducted Emission:

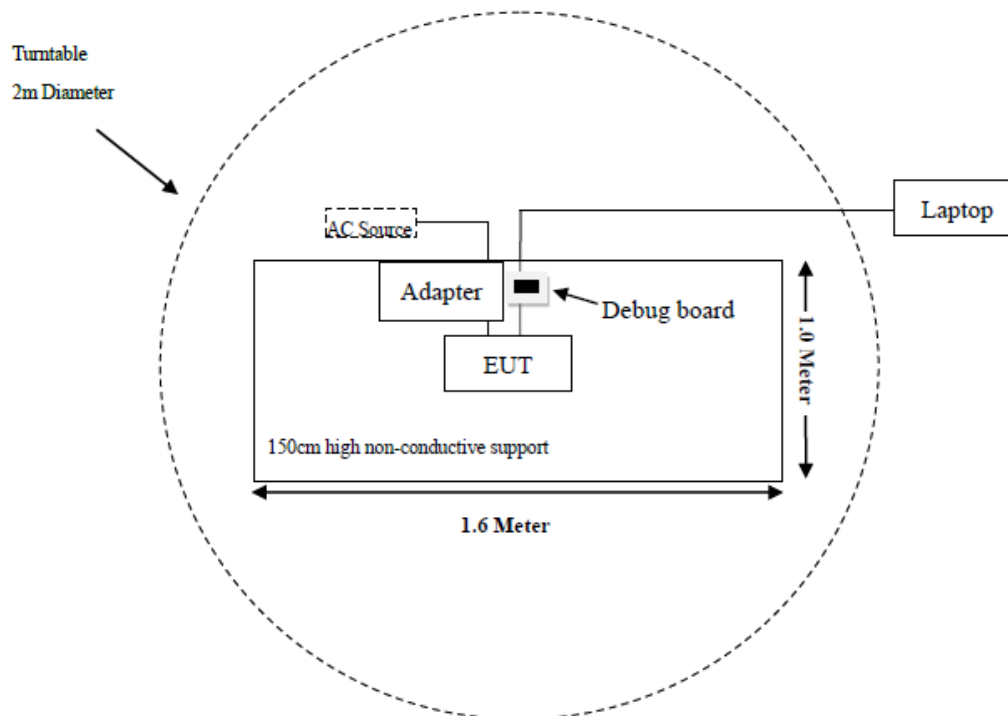


Radiated Emission

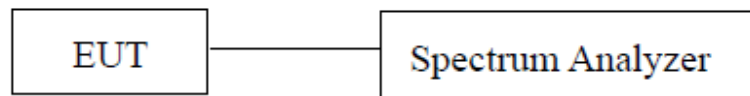
Below 1GHz:



Above 1GHz:



RF Conduction:



Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was Offset/TDF into the setting of test equipment:

Offset/TDF = Insert loss of RF cable

★The Insert loss was declared by manufacturer.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Radiated Emissions & Restricted Bands Emissions & Antenna-port conducted emission	Compliant
§15.247(a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2025/02/20	2026/02/19
LISN	Rohde & Schwarz	ENV216	100129	2025/02/20	2026/02/19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2025/02/20	2026/02/19
EMI Test software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
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
Radiated Emissions Above 1 GHz					
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
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/02/20	2026/02/19
Test Software	JD	JDAutoTestSystem	1.0.0.3813	N/A	N/A

* **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 § 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 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

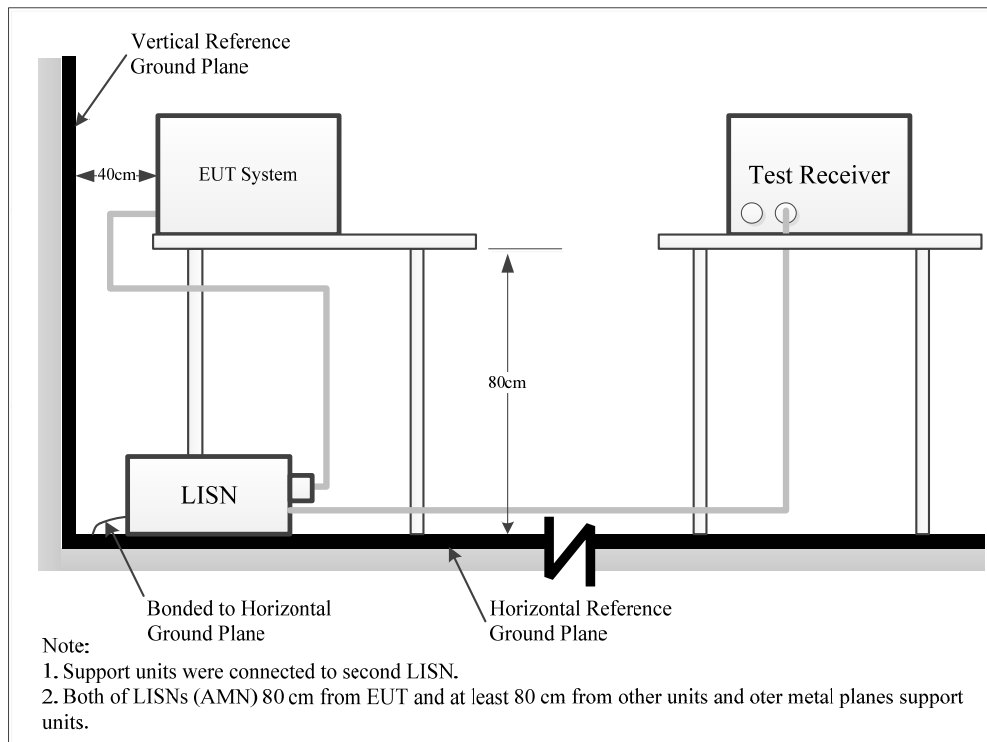
Result: Compliant

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.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

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:

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

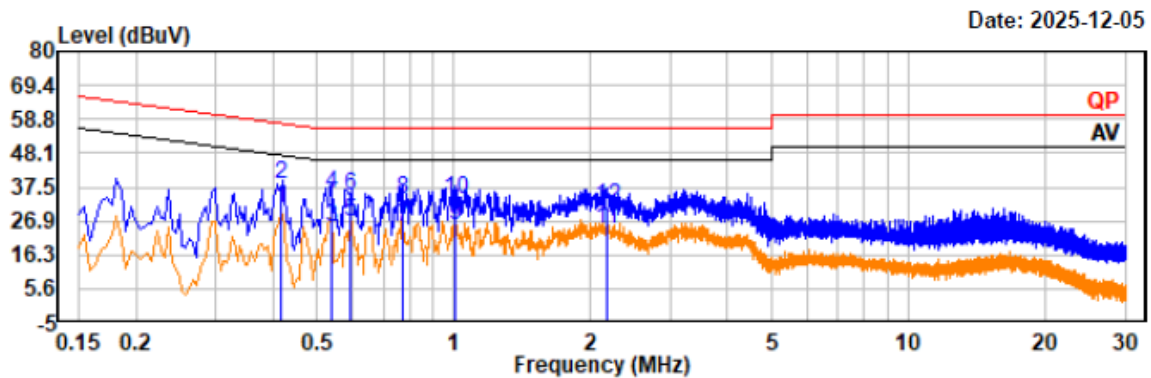
Test Data

Frequency Range:	150kHz~30MHz
Temperature:	22.6°C
Relative Humidity:	54%
ATM Pressure:	100.1kPa
Test Date:	2025-12-05
Test Engineer:	Zane Zhang

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

Project No.: 2507V24134E-RF
 Test Mode: BLE 1M 2480MHz
 EUT Model: UV-7B

Temp/Humi/ATM: 22.6°C/54%/100.1kPa
 Tested by: Zane Zhang
 Power Source: AC 120V/60Hz



Trace: 1

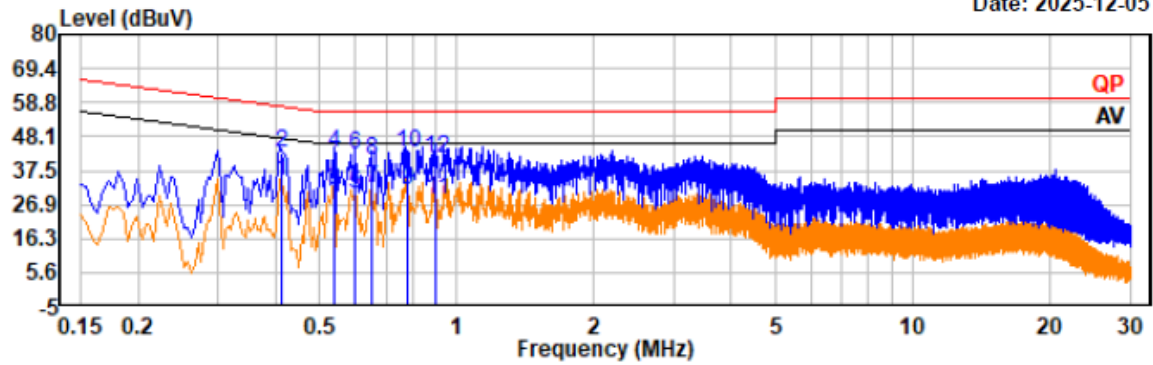
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.416	9.78	20.88	30.66	47.53	16.87	Line	Average
0.416	17.37	20.88	38.25	57.53	19.28	Line	QP
0.538	4.46	20.52	24.98	46.00	21.02	Line	Average
0.538	14.78	20.52	35.30	56.00	20.70	Line	QP
0.593	6.95	19.91	26.86	46.00	19.14	Line	Average
0.593	15.11	19.91	35.02	56.00	20.98	Line	QP
0.775	5.60	19.07	24.67	46.00	21.33	Line	Average
0.775	14.51	19.07	33.58	56.00	22.42	Line	QP
1.007	5.67	19.57	25.24	46.00	20.76	Line	Average
1.007	13.94	19.57	33.51	56.00	22.49	Line	QP
2.165	3.90	20.53	24.43	46.00	21.57	Line	Average
2.165	11.00	20.53	31.53	56.00	24.47	Line	QP

Project No.: 2507V24134E-RF
 Test Mode: BLE 1M 2480MHz
 EUT Model: UV-7B

Temp/Humi/ATM: 22.6°C/54%/100.1kPa
 Tested by: Zane Zhang
 Power Source: AC 120V/60Hz

Date: 2025-12-05



Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.412	13.79	20.54	34.33	47.60	13.27	Neutral	Average
0.412	22.50	20.54	43.04	57.60	14.56	Neutral	QP
0.539	10.61	20.48	31.09	46.00	14.91	Neutral	Average
0.539	22.61	20.48	43.09	56.00	12.91	Neutral	QP
0.600	9.72	20.48	30.20	46.00	15.80	Neutral	Average
0.600	21.77	20.48	42.25	56.00	13.75	Neutral	QP
0.650	11.23	20.47	31.70	46.00	14.30	Neutral	Average
0.650	20.21	20.47	40.68	56.00	15.32	Neutral	QP
0.777	10.81	20.53	31.34	46.00	14.66	Neutral	Average
0.777	22.55	20.53	43.08	56.00	12.92	Neutral	QP
0.901	7.87	20.60	28.47	46.00	17.53	Neutral	Average
0.901	20.45	20.60	41.05	56.00	14.95	Neutral	QP

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

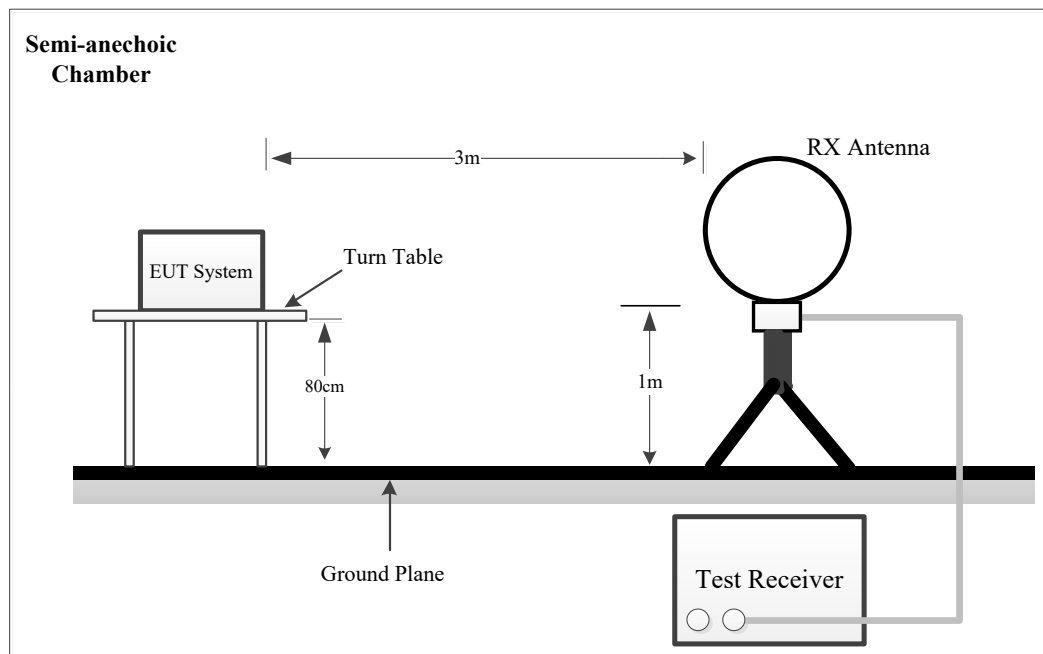
Applicable Standard

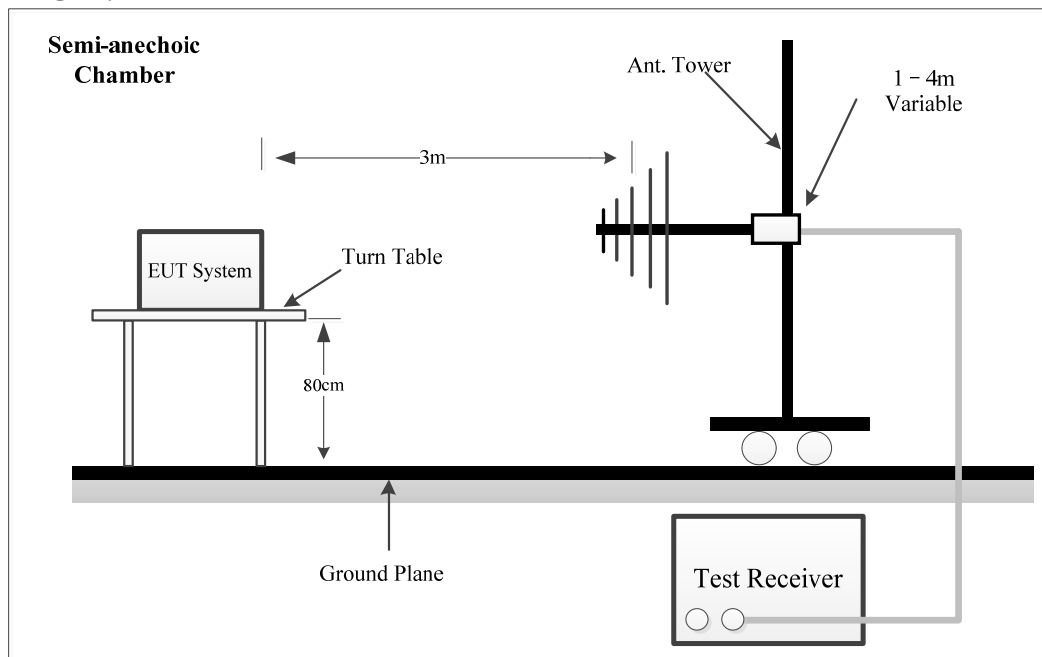
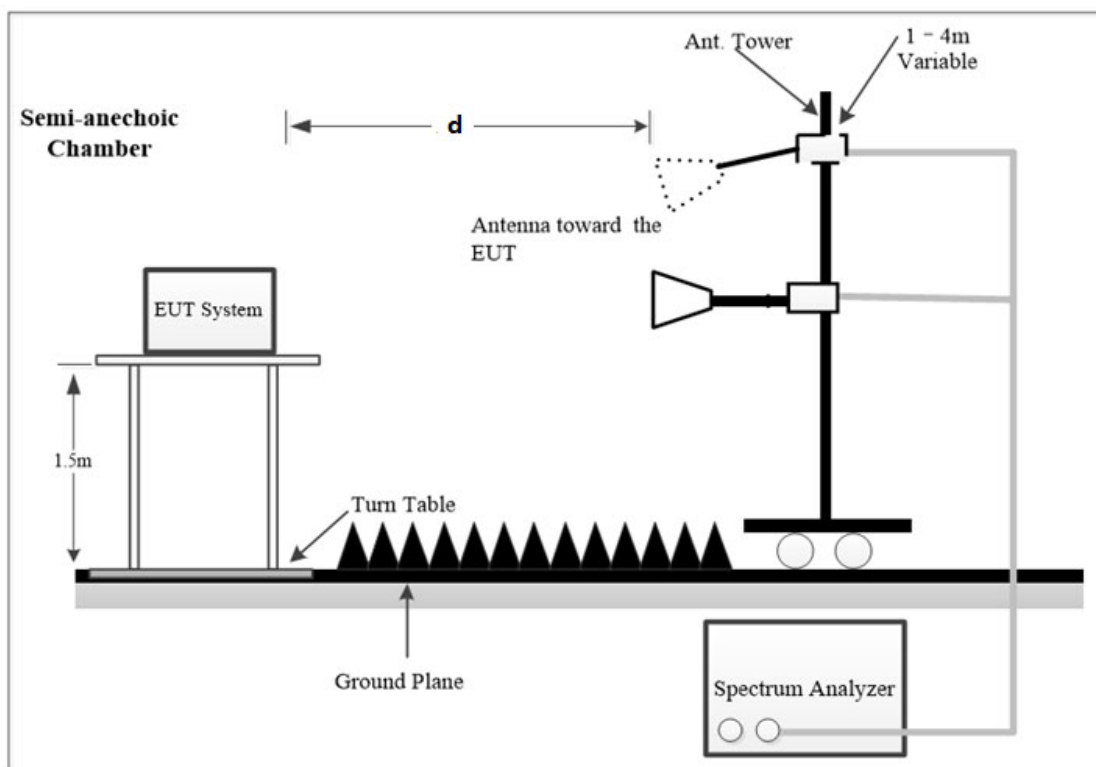
FCC §15.247 (d); §15.209; §15.205;

(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

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, and 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 (18GHz-25GHz), 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 = 6.0 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:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3MHz	PK
Ave.	>98%	1MHz	5kHz	PK
	<98%	1MHz	1/T, not less than 5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3MHz	PK
Ave.	>98%	1MHz	10Hz	PK
	<98%	1MHz	1/T	PK

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP limit more than 6dB, then it is unnecessary to perform an QP measurement.

If the maximized peak measured value complies with under the Average limit, then it is unnecessary to perform an Average measurement.

Test Procedure

Radiated Emissions:

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.

Antenna-port conducted emission:

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.

The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided. When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

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 and Bandedge emissions 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

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

$$\text{Extrapolation factor} = 6\text{dB (distance} = 1.5\text{m)}$$

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

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:	23.4°C	23.4°C	25.1°C
Relative Humidity:	51 %	51 %	63%
ATM Pressure:	100.1kPa	100.1kPa	100.3kPa
Test Date:	2025-12-05	2025-12-05	2025-08-07
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.

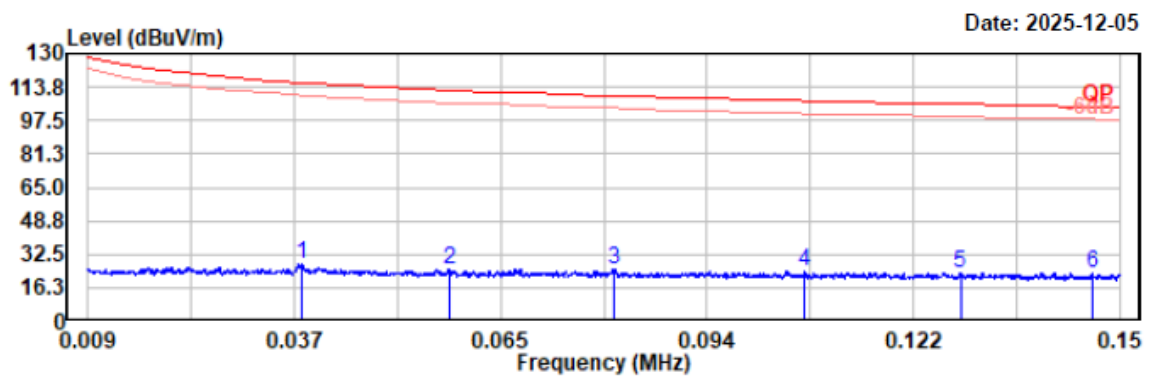
1) 9 kHz~30MHz

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.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

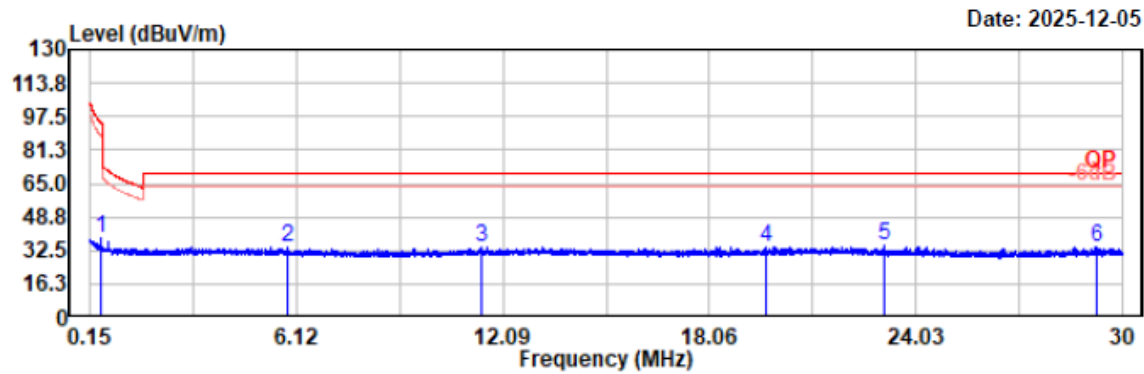


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.038	8.01	19.91	27.92	115.95	88.03	Peak
0.058	5.49	19.91	25.40	112.29	86.89	Peak
0.081	5.67	19.72	25.39	109.45	84.06	Peak
0.107	4.83	19.73	24.56	107.03	82.47	Peak
0.128	4.02	19.73	23.75	105.45	81.70	Peak
0.146	3.49	19.73	23.22	104.31	81.09	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



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

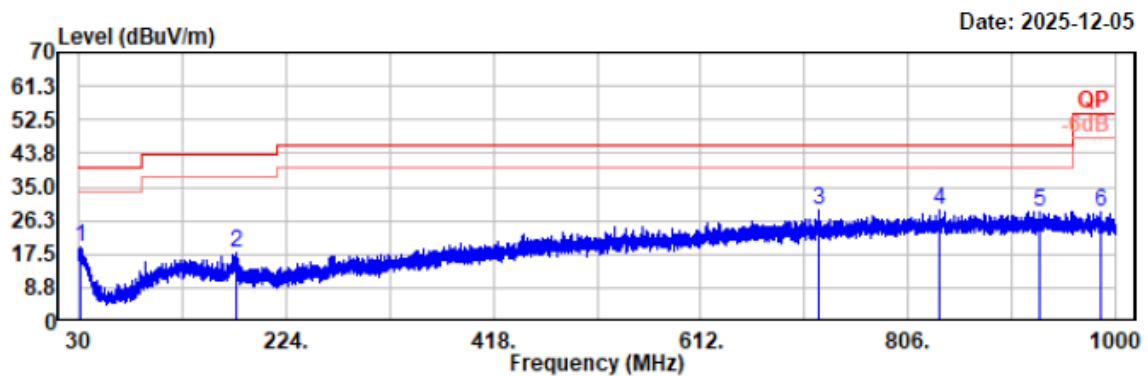
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.451	18.49	19.79	38.28	94.51	56.23	Peak
5.845	14.56	19.78	34.34	69.54	35.20	Peak
11.469	14.04	19.72	33.76	69.54	35.78	Peak
19.711	14.09	20.07	34.16	69.54	35.38	Peak
23.129	14.45	20.17	34.62	69.54	34.92	Peak
29.239	14.29	20.00	34.29	69.54	35.25	Peak

2) 30MHz-1GHz

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

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

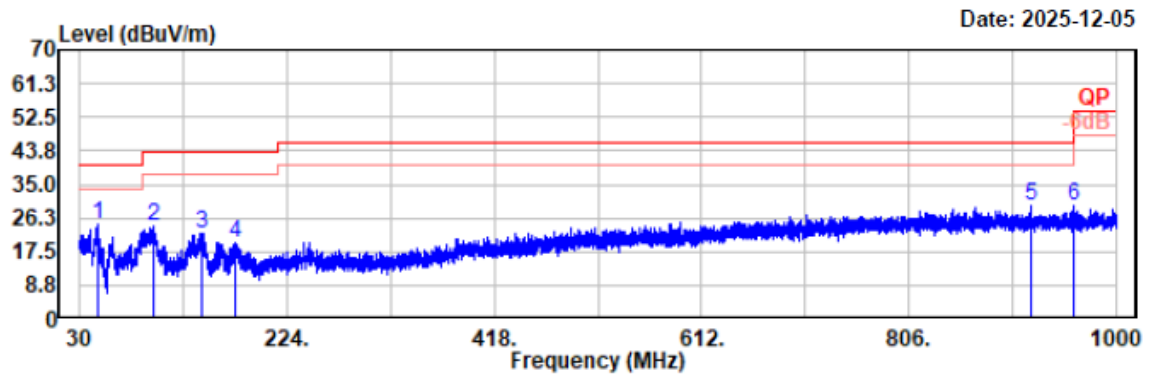


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
32.13	25.70	-6.48	19.22	40.00	20.78	Horizontal	Peak
178.12	30.15	-12.19	17.96	43.50	25.54	Horizontal	Peak
722.48	29.01	0.05	29.06	46.00	16.94	Horizontal	Peak
836.07	27.23	1.79	29.02	46.00	16.98	Horizontal	Peak
929.38	25.77	2.86	28.63	46.00	17.37	Horizontal	Peak
985.94	24.91	3.80	28.71	54.00	25.29	Horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/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
46.49	40.62	-16.06	24.56	40.00	15.44	Vertical	Peak
98.39	39.47	-15.42	24.05	43.50	19.45	Vertical	Peak
145.14	33.30	-10.97	22.33	43.50	21.17	Vertical	Peak
174.82	32.05	-12.13	19.92	43.50	23.58	Vertical	Peak
920.75	26.51	2.74	29.25	46.00	16.75	Vertical	Peak
959.65	26.27	3.36	29.63	46.00	16.37	Vertical	Peak

3) 1GHz~3GHz

Project No.: 2507V24134E-RF

Test Mode: BLE 1M 2402MHz

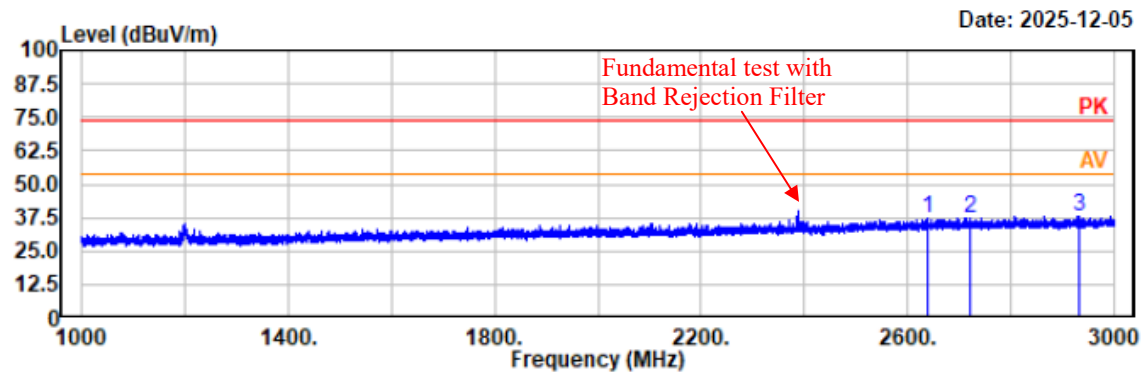
EUT Model: UV-7B

Test distance: 3m

Temp/Humi/ATM: 23.4℃/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

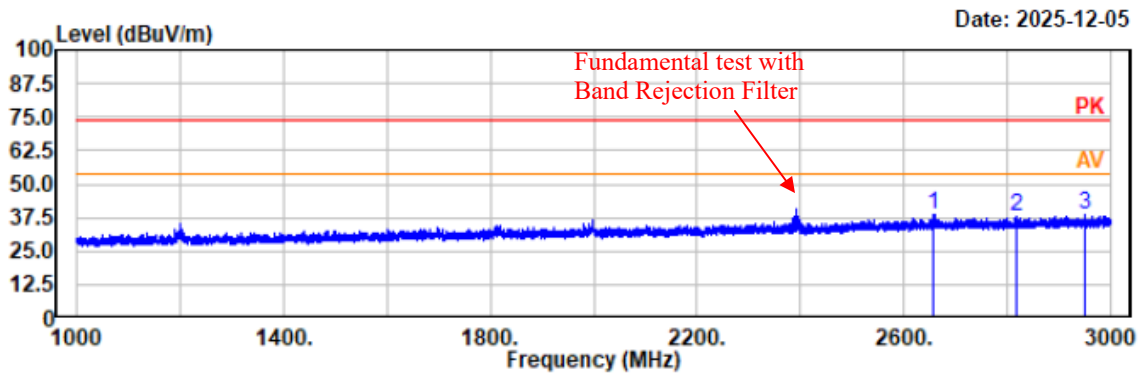


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2639.40	47.20	-10.24	36.96	74.00	37.04	horizontal	Peak
2723.00	47.27	-9.97	37.30	74.00	36.70	horizontal	Peak
2933.20	47.59	-9.32	38.27	74.00	35.73	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

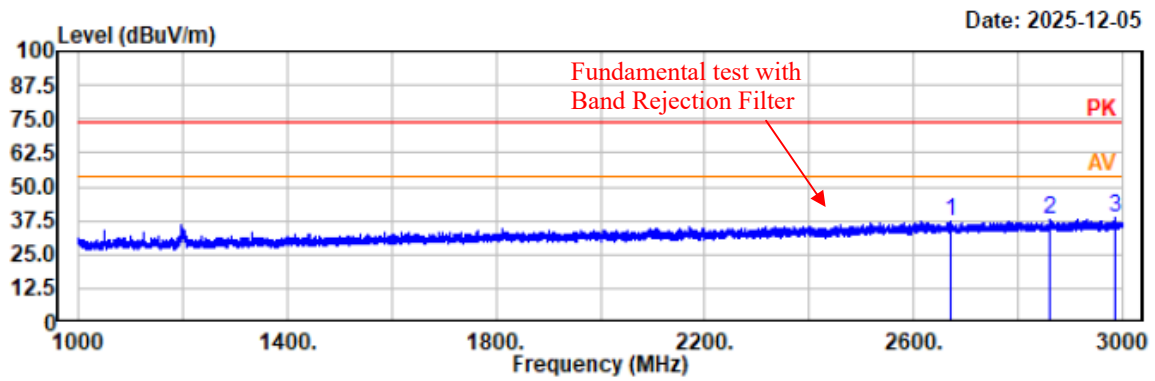


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2658.40	48.54	-10.17	38.37	74.00	35.63	vertical	Peak
2818.00	47.52	-9.73	37.79	74.00	36.21	vertical	Peak
2951.80	47.93	-9.19	38.74	74.00	35.26	vertical	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

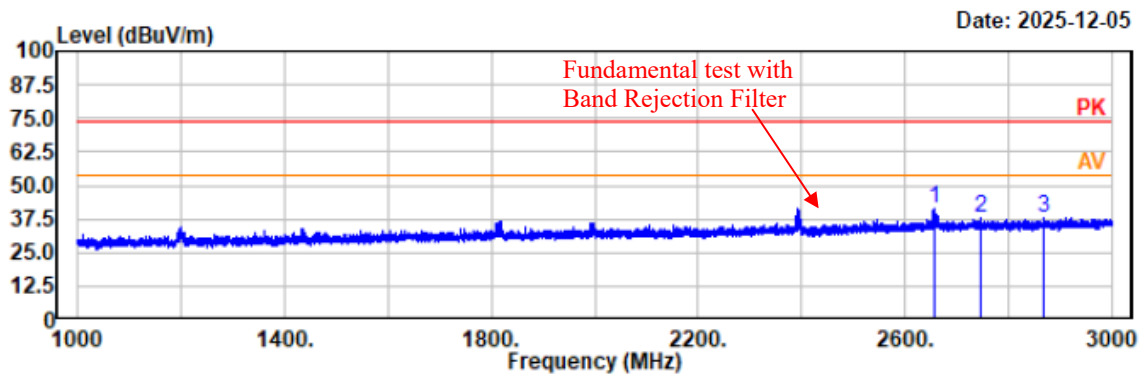


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2670.80	47.50	-10.12	37.38	74.00	36.62	horizontal	Peak
2859.80	47.27	-9.61	37.66	74.00	36.34	horizontal	Peak
2985.80	47.42	-9.02	38.40	74.00	35.60	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

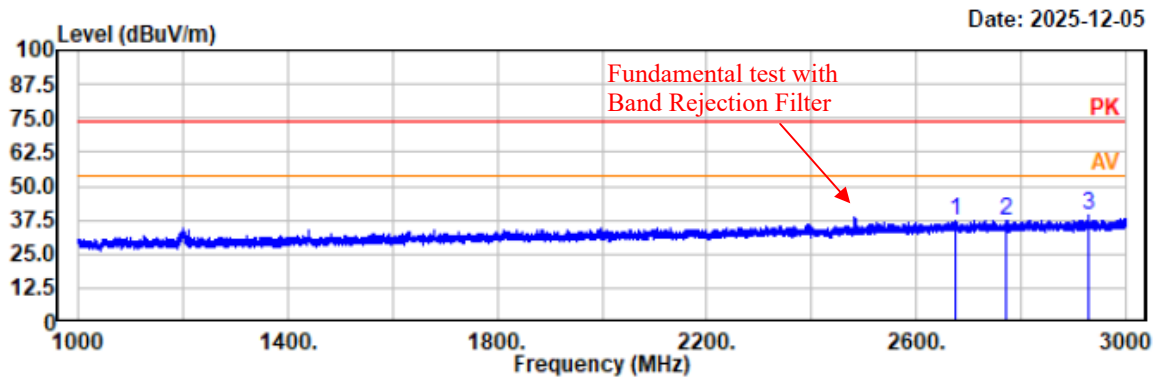


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2657.20	51.88	-10.17	41.71	74.00	32.29	vertical	Peak
2747.20	47.85	-9.96	37.89	74.00	36.11	vertical	Peak
2869.60	47.68	-9.60	38.08	74.00	35.92	vertical	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

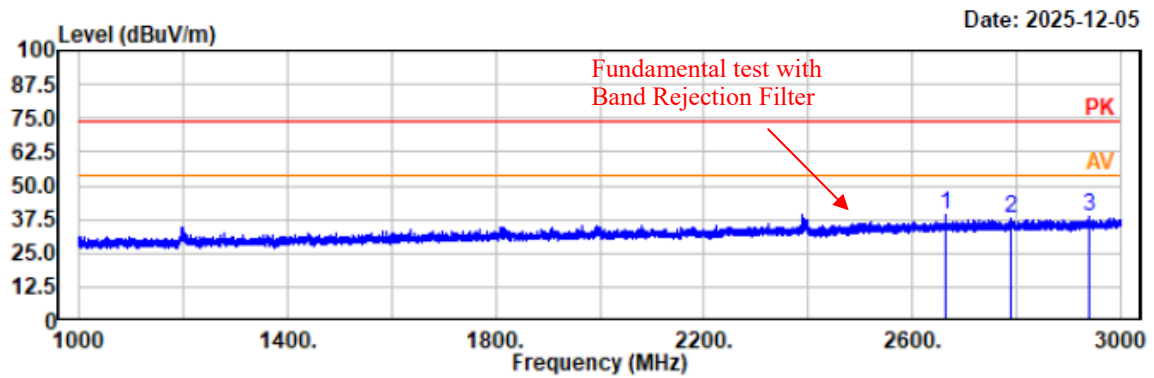


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2674.40	47.46	-10.10	37.36	74.00	36.64	horizontal	Peak
2772.20	47.31	-9.87	37.44	74.00	36.56	horizontal	Peak
2927.40	48.47	-9.37	39.10	74.00	34.90	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/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
2663.20	49.71	-10.15	39.56	74.00	34.44	vertical	Peak
2788.20	47.66	-9.83	37.83	74.00	36.17	vertical	Peak
2941.20	47.71	-9.26	38.45	74.00	35.55	vertical	Peak

4) 3 GHz ~18 GHz

Project No.: 2507V24134E-RF

Test Mode: BLE 1M 2402MHz

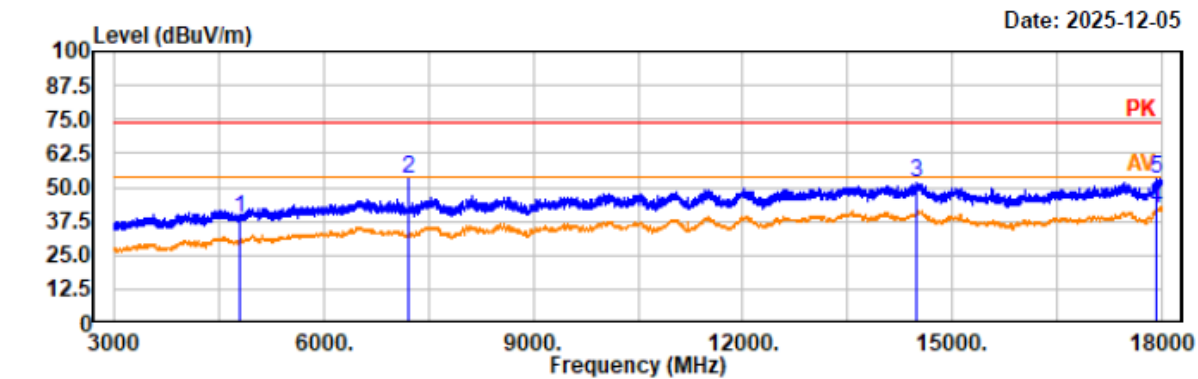
EUT Model: UV-7B

Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



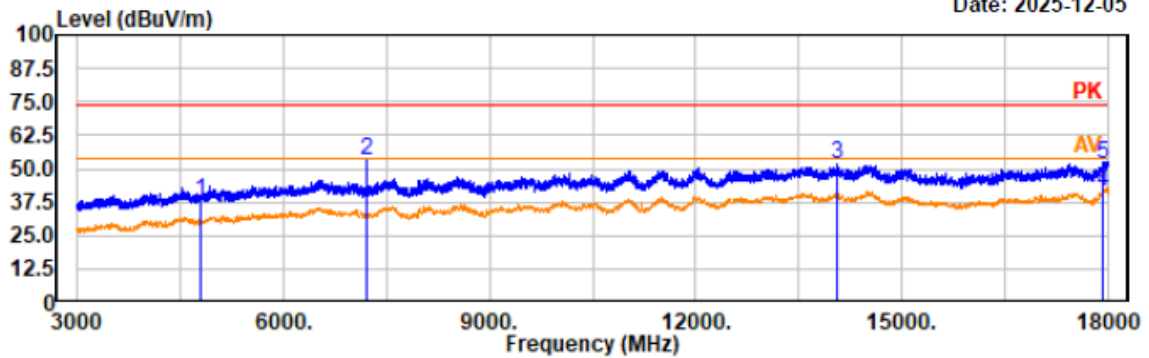
Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	43.91	-5.24	38.67	74.00	35.33	horizontal	Peak
7206.00	55.48	-2.55	52.93	74.00	21.07	horizontal	Peak
14499.00	46.59	5.07	51.66	74.00	22.34	horizontal	Peak
17932.50	35.56	6.83	42.39	54.00	11.61	horizontal	Average
17932.50	46.18	6.83	53.01	74.00	20.99	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-12-05



Trace: 1

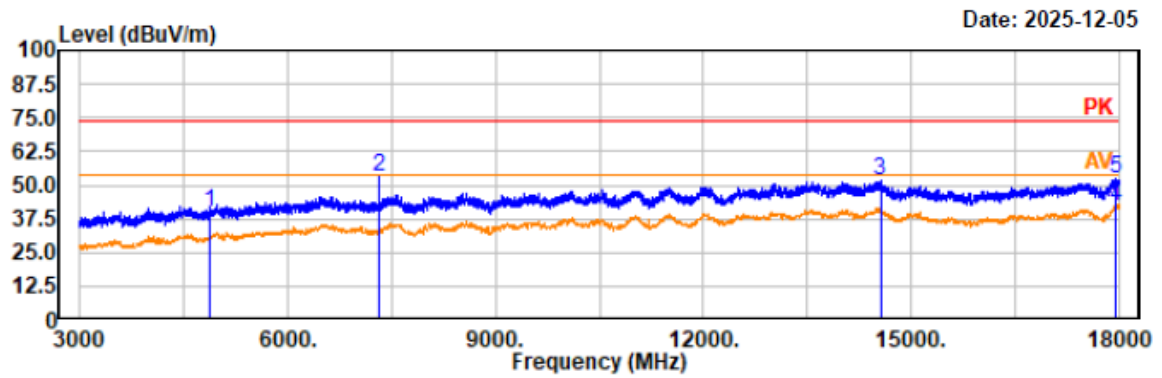
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	43.04	-5.24	37.80	74.00	36.20	vertical	Peak
7206.00	55.54	-2.55	52.99	74.00	21.01	vertical	Peak
14064.00	46.17	5.28	51.45	74.00	22.55	vertical	Peak
17920.50	34.59	6.83	41.42	54.00	12.58	vertical	Average
17920.50	44.79	6.83	51.62	74.00	22.38	vertical	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

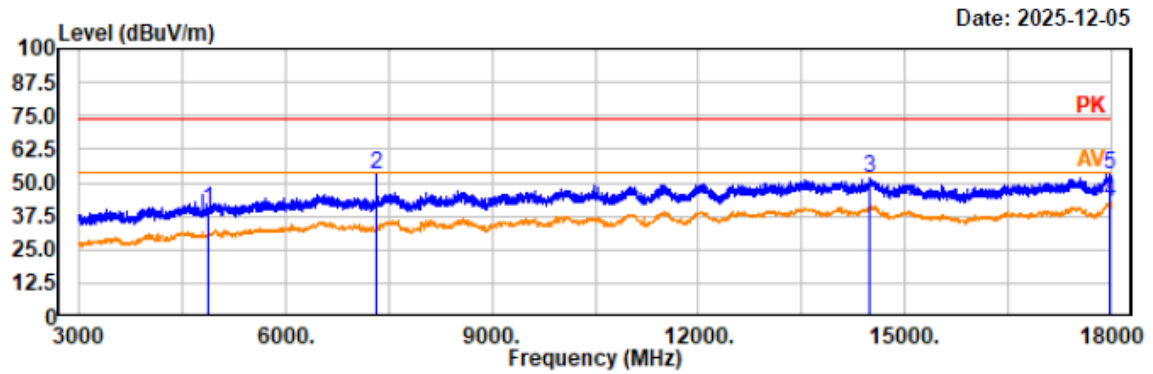
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	45.34	-5.30	40.04	74.00	33.96	horizontal	Peak
7320.00	55.31	-2.25	53.06	74.00	20.94	horizontal	Peak
14554.50	46.47	5.04	51.51	74.00	22.49	horizontal	Peak
17952.00	34.91	6.86	41.77	54.00	12.23	horizontal	Average
17952.00	45.25	6.86	52.11	74.00	21.89	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

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

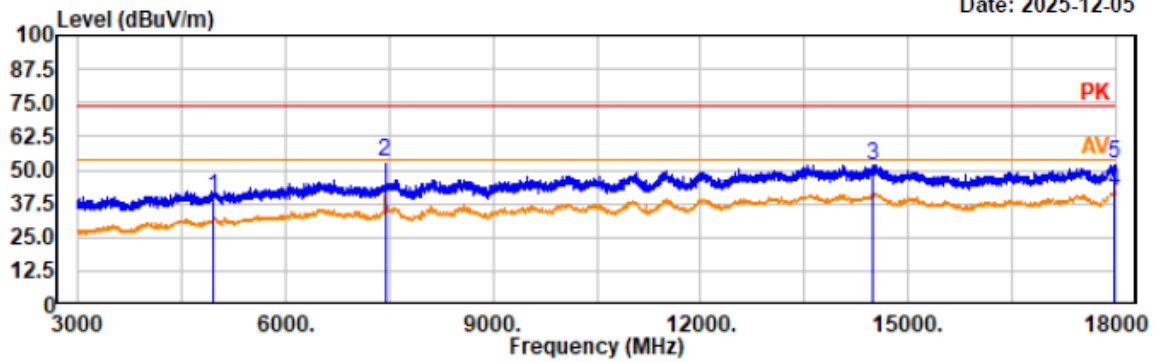
AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4879.50	45.33	-5.30	40.03	74.00	33.97	vertical	Peak
7320.00	55.42	-2.25	53.17	74.00	20.83	vertical	Peak
14500.50	46.35	5.07	51.42	74.00	22.58	vertical	Peak
17985.00	35.95	6.89	42.84	54.00	11.16	vertical	Average
17985.00	46.45	6.89	53.34	74.00	20.66	vertical	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-12-05



Trace: 1

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

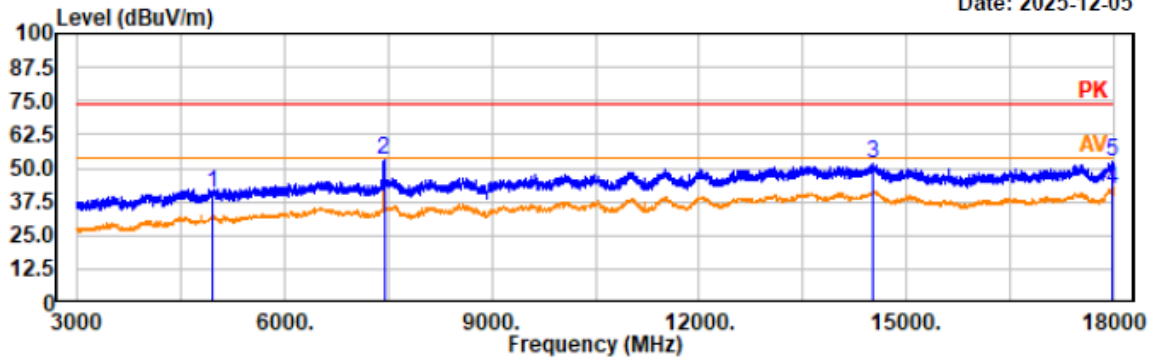
AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	44.94	-5.11	39.83	74.00	34.17	horizontal	Peak
7440.00	55.18	-2.03	53.15	74.00	20.85	horizontal	Peak
14493.00	46.86	5.08	51.94	74.00	22.06	horizontal	Peak
17983.50	34.92	6.89	41.81	54.00	12.19	horizontal	Average
17983.50	45.18	6.89	52.07	74.00	21.93	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-12-05



Trace: 1

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

AV RBW:1MHz VBW:10kHz SWT:auto

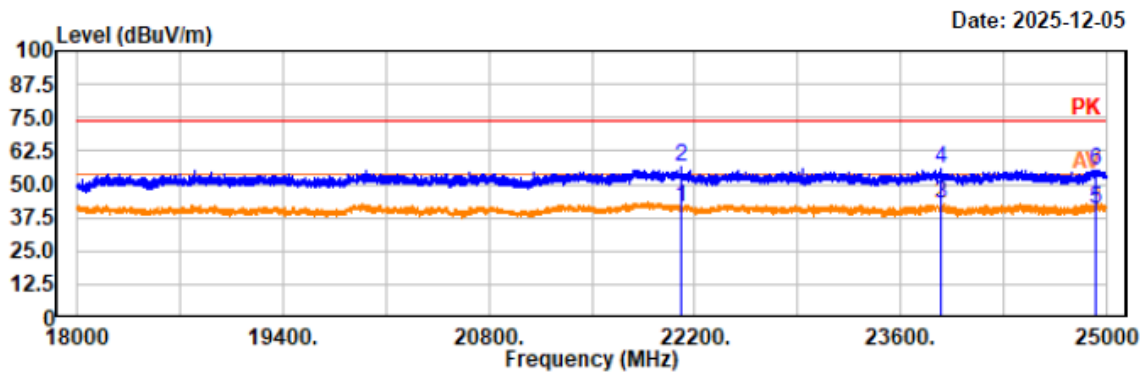
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	45.88	-5.11	40.77	74.00	33.23	Vertical	Peak
7440.00	55.02	-2.03	52.99	74.00	21.01	Vertical	Peak
14512.50	46.64	5.07	51.71	74.00	22.29	Vertical	Peak
17986.50	35.10	6.89	41.99	54.00	12.01	vertical	Average
17986.50	45.63	6.89	52.52	74.00	21.48	Vertical	Peak

5) 18 GHz ~25 GHz

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

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 1.5m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

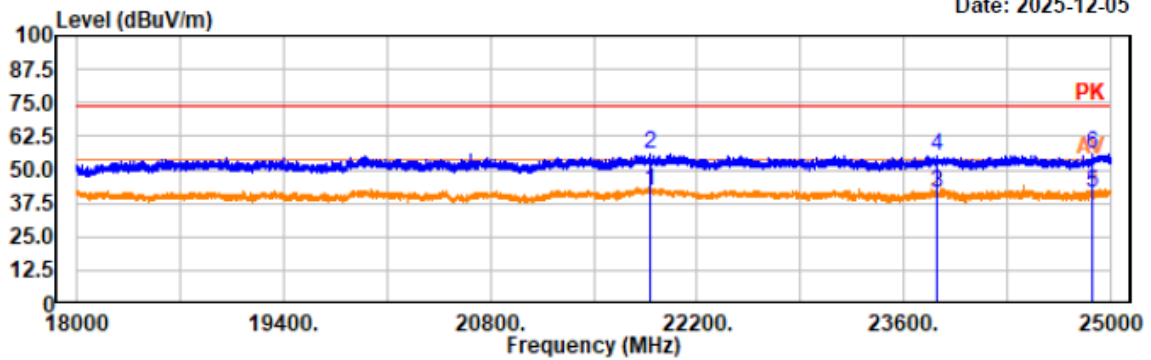
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
22107.60	36.31	4.98	41.29	54.00	12.71	horizontal	Average
22107.60	51.23	4.98	56.21	74.00	17.79	horizontal	Peak
23877.20	37.11	5.34	42.45	54.00	11.55	horizontal	Average
23877.20	50.34	5.34	55.68	74.00	18.32	horizontal	Peak
24929.30	34.24	6.32	40.56	54.00	13.44	horizontal	Average
24929.30	49.07	6.32	55.39	74.00	18.61	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 1.5m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-12-05



Trace: 1

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

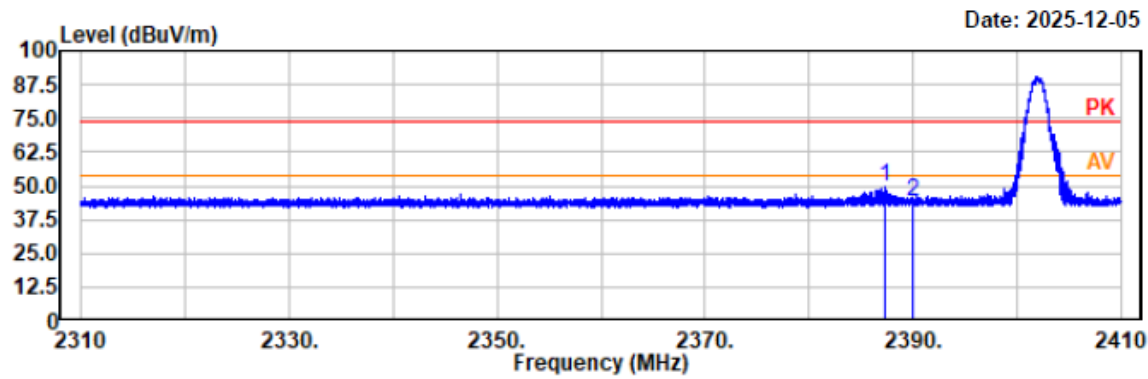
AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21880.10	36.57	5.23	41.80	54.00	12.20	vertical	Average
21880.10	50.36	5.23	55.59	74.00	18.41	vertical	Peak
23828.20	36.01	5.27	41.28	54.00	12.72	vertical	Average
23828.20	49.78	5.27	55.05	74.00	18.95	vertical	Peak
24875.40	35.00	6.30	41.30	54.00	12.70	vertical	Average
24875.40	49.83	6.30	56.13	74.00	17.87	vertical	Peak

Restricted Bands Emissions:

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

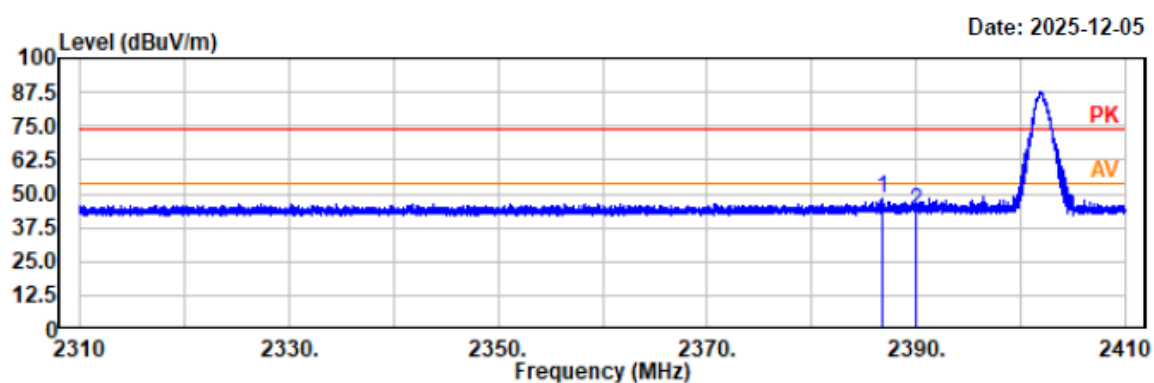


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2387.37	50.56	-1.16	49.40	74.00	24.60	horizontal	Peak
2390.00	45.27	-1.15	44.12	74.00	29.88	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

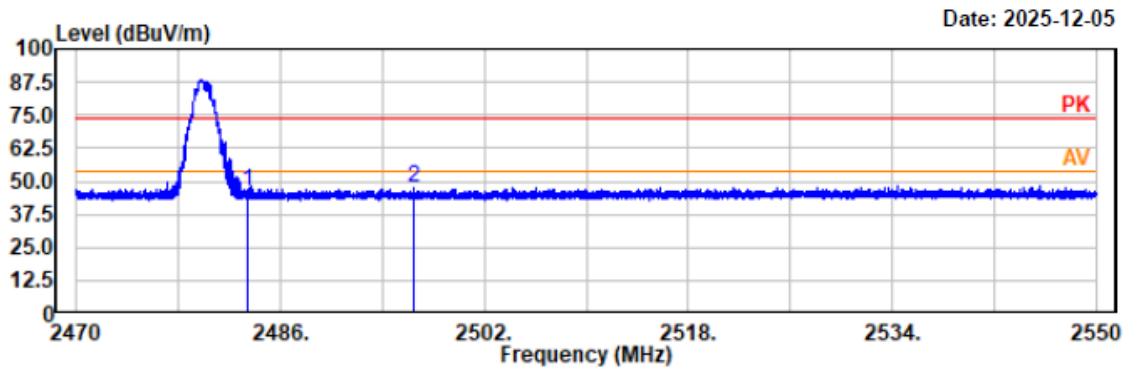


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2386.69	49.38	-1.16	48.22	74.00	25.78	vertical	Peak
2390.00	44.89	-1.15	43.74	74.00	30.26	vertical	Peak

Project No.: 2507V24134E-RF
 Test Mode: BLE 1M 2480MHz
 EUT Model: UV-7B
 Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

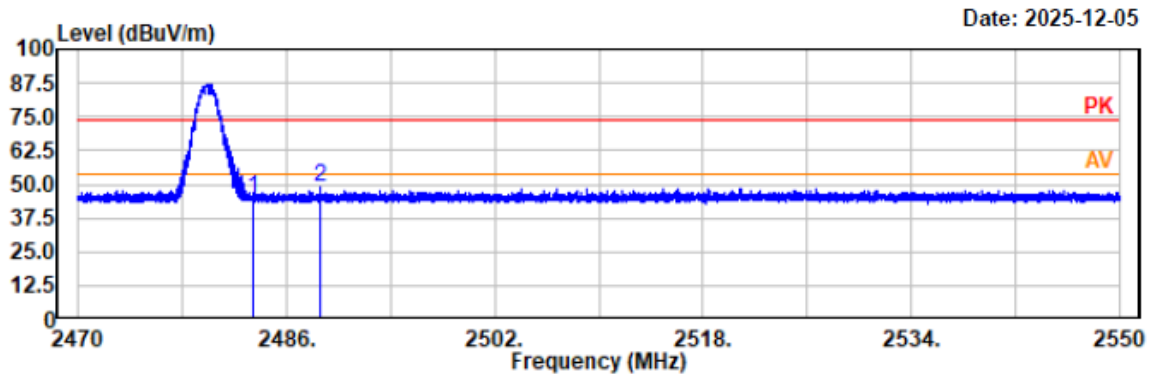


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	47.29	-0.77	46.52	74.00	27.48	horizontal	Peak
2496.41	48.39	-0.71	47.68	74.00	26.32	horizontal	Peak

Project No.: 2507V24134E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: UV-7B
Test distance: 3m

Temp/Humi/ATM: 23.4°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

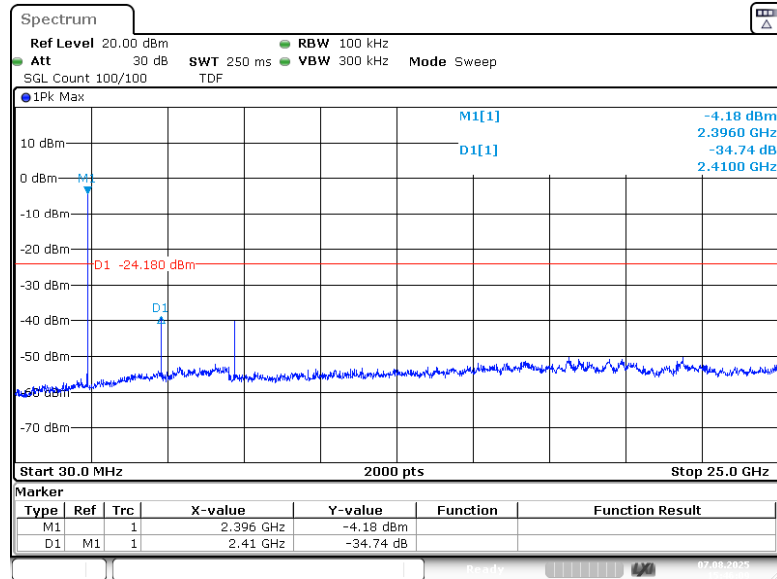


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.93	-0.77	45.16	74.00	28.84	vertical	Peak
2488.66	49.97	-0.76	49.21	74.00	24.79	vertical	Peak

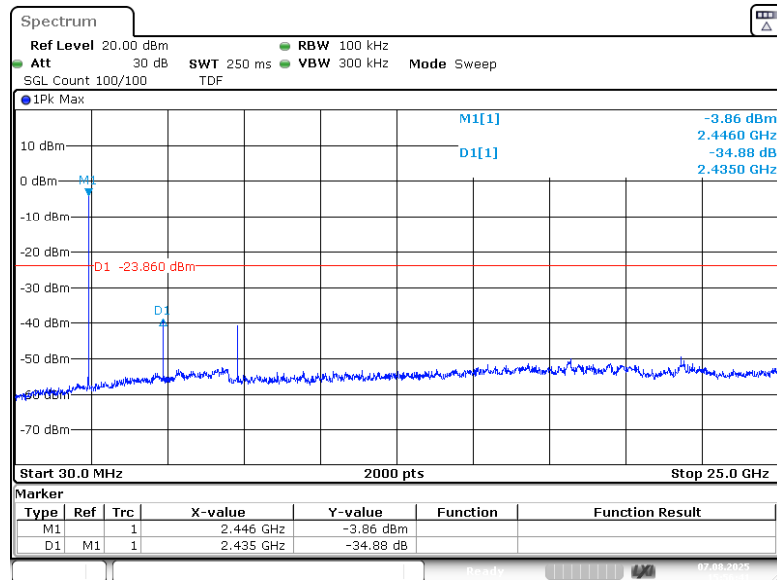
Antenna-port conducted emission

BLE_1M_Low_Channel



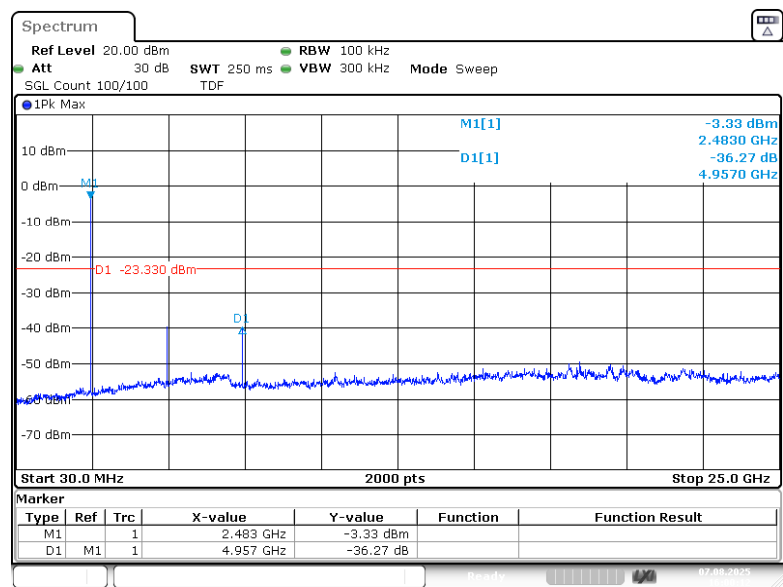
ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 15:46:09

BLE_1M_Middle_Channel



ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 15:56:42

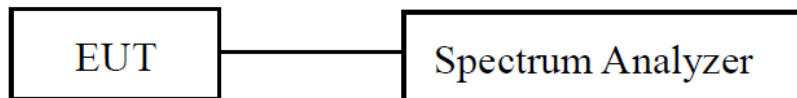
BLE_1M_High_Channel



ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 16:00:13

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH**Applicable Standard**

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

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- 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.

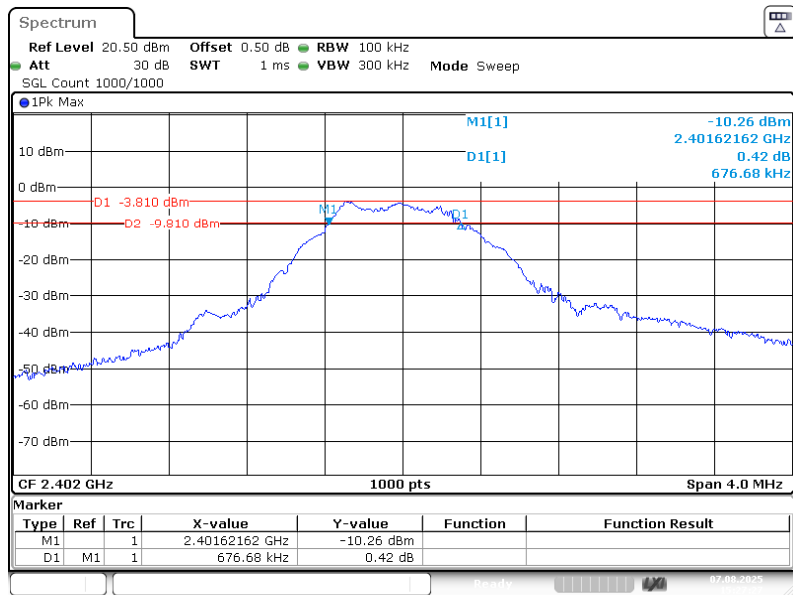
Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-08-07	Environment:	Temp.: 25.1°C Humi.: 63% Atm :100.3 kPa

Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE 1Mbps	Lowest	2402	0.677	≥ 0.5
	Middle	2440	0.673	≥ 0.5
	Highest	2480	0.689	≥ 0.5

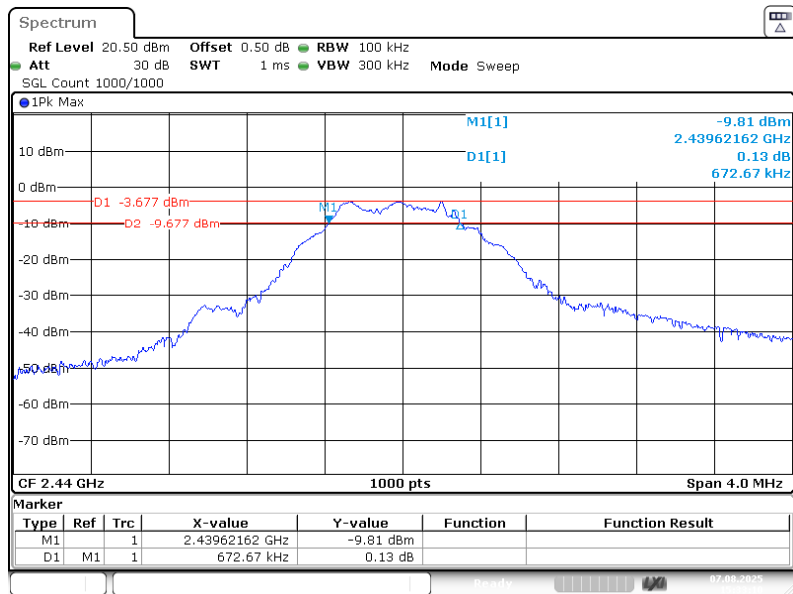
1Mbps_Lowest



ProjectNo.:2507V24134E-RF Tester:Braylon Ma

Date: 7.AUG.2025 15:27:27

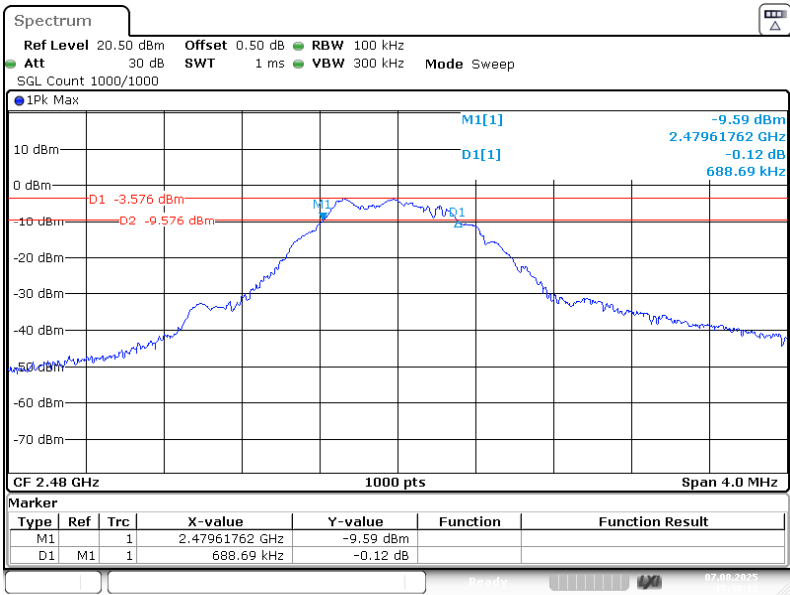
1Mbps_Middle



ProjectNo.:2507V24134E-RF Tester:Braylon Ma

Date: 7.AUG.2025 15:33:10

1Mbps_Highest

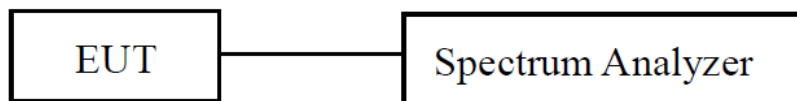


ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 15:38:13

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 $\geq [3 \times \text{RBW}]$.
- c) Set span $\geq [3 \times \text{RBW}]$.
- 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.

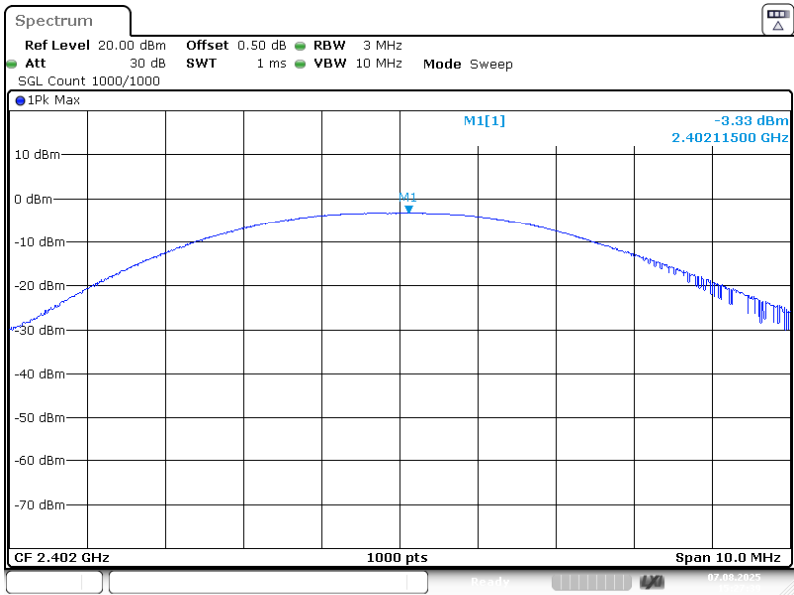
Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-08-07	Environment:	Temp.: 25.1°C Humi.: 63% Atm :100.3 kPa

Test Result: Compliant

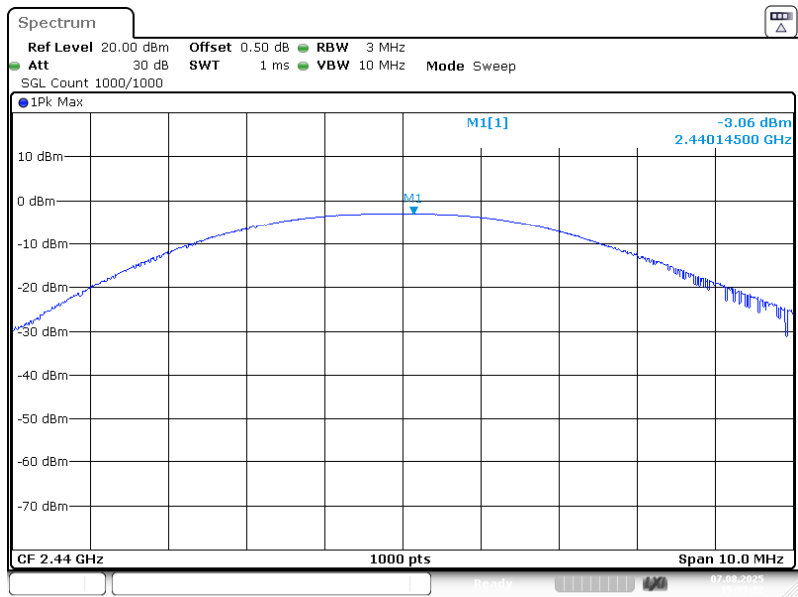
Test Modes	Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power(dBm)	Limit (dBm)
BLE 1Mbps	Lowest	2402	-3.33	≤30
	Middle	2440	-3.06	≤30
	Highest	2480	-2.84	≤30

1Mbps_Lowest



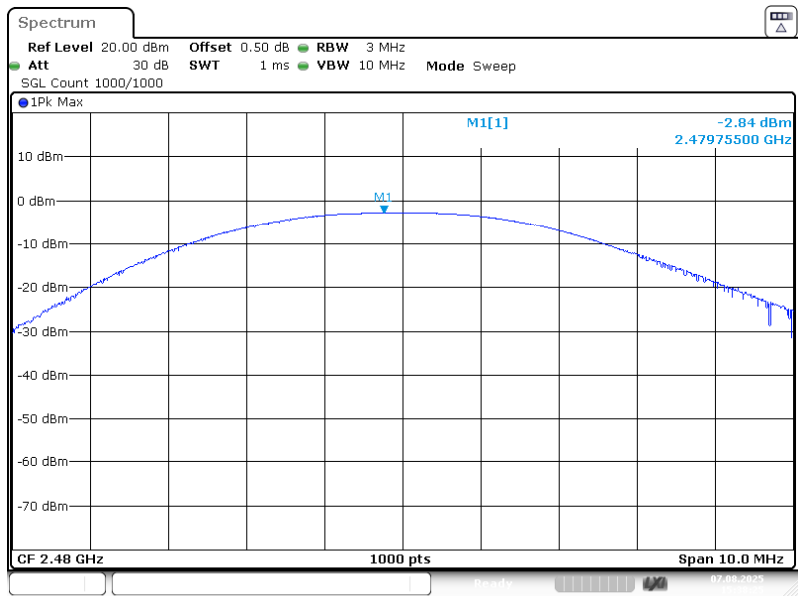
ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 15:27:39

1Mbps_Middle



ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 15:33:22

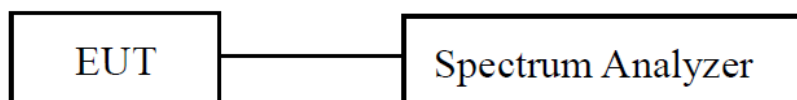
1Mbps_Highest



ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 15:38:25

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

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

- 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
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

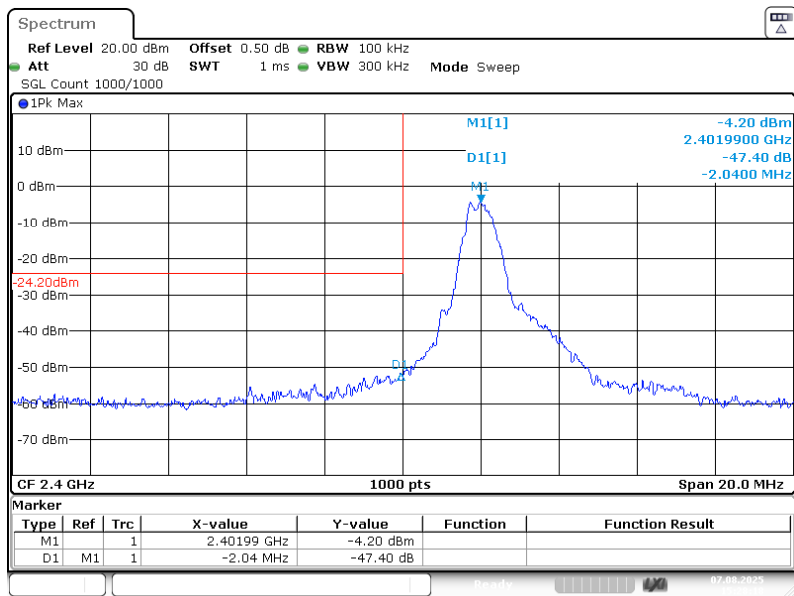
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-08-07	Environment:	Temp.: 25.1°C Humi.: 63% Atm :100.3 kPa

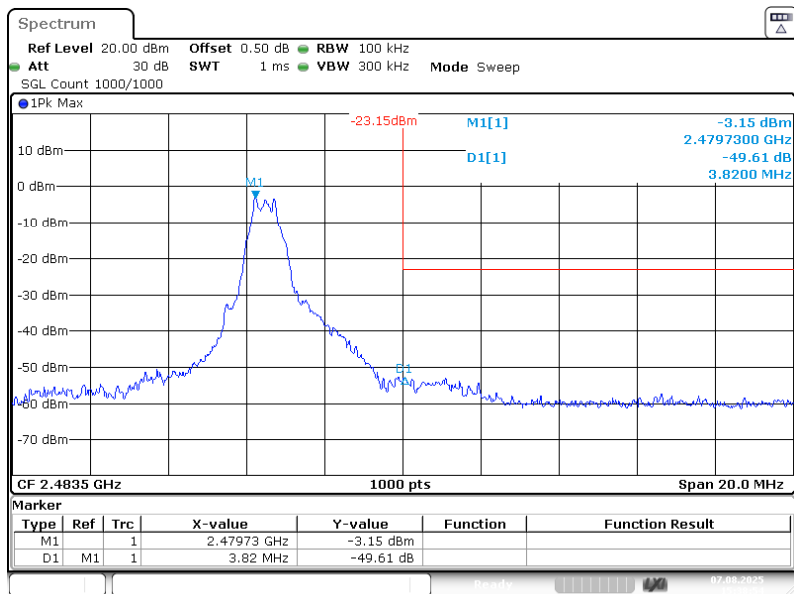
Test Result: Compliant

BLE 1Mbps_Lowest



ProjectNo.:2507V24134E-RF Tester:Braylon Ma
 Date: 7.AUG.2025 15:28:18

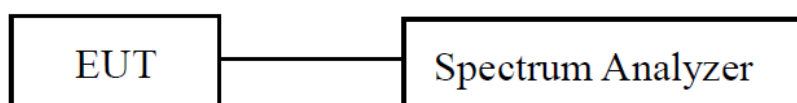
BLE 1Mbps_Highest



ProjectNo.:2507V24134E-RF Tester:Braylon Ma
 Date: 7.AUG.2025 15:38:54

FCC §15.247(e) - POWER SPECTRAL DENSITY**Applicable Standard**

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.

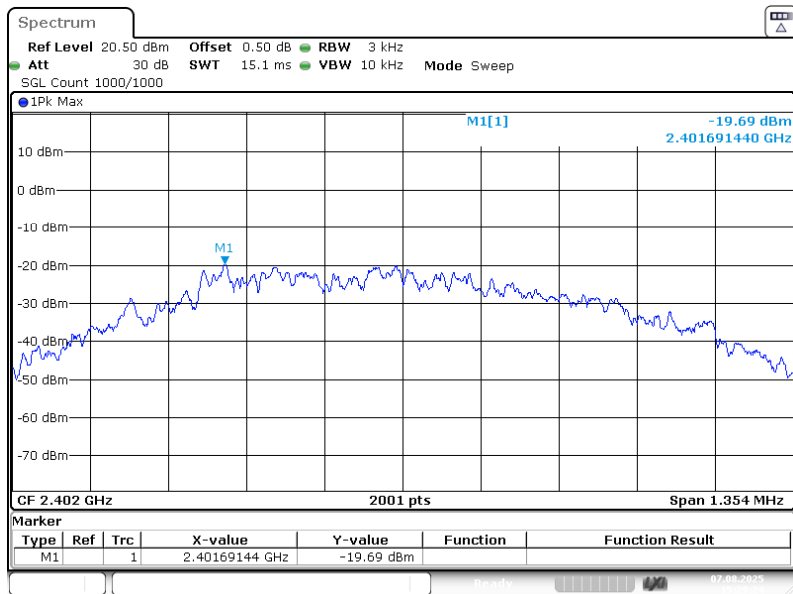
Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-08-07	Environment:	Temp.: 25.1°C Humi.: 63% Atm :100.3 kPa

Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	Lowest	2402	-19.69	≤ 8.00
	Middle	2440	-19.37	≤ 8.00
	Highest	2480	-19.15	≤ 8.00

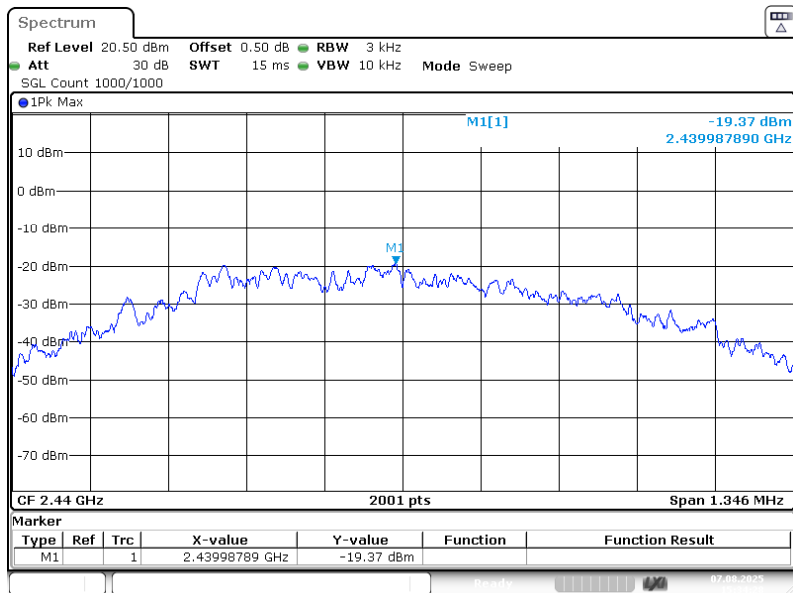
BLE 1Mbps_Lowest



ProjectNo.:2507V24134E-RF Tester:Braylon Ma

Date: 7.AUG.2025 15:29:24

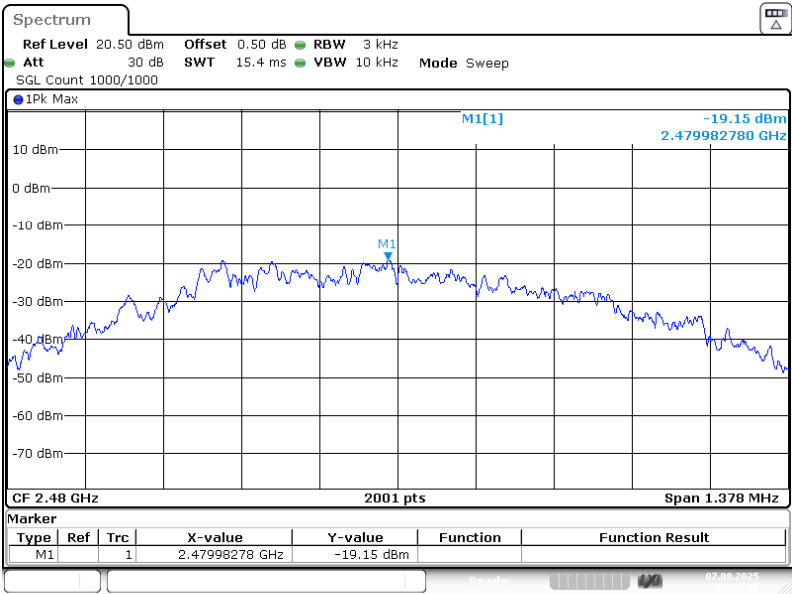
BLE 1Mbps_Middle



ProjectNo.:2507V24134E-RF Tester:Braylon Ma

Date: 7.AUG.2025 15:34:28

BLE 1Mbps_Highest



ProjectNo.:2507V24134E-RF Tester:Braylon Ma
Date: 7.AUG.2025 15:40:00

EUT PHOTOGRAPHS

Please refer to the attachment 2507V24134E-EM-EXP EUT EXTERNAL PHOTOGRAPHS and 2507V24134E-EM-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507V24134E-RF-TSP-02 TEST SETUP PHOTOGRAPHS.

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 *******