FCC PART 15.247
RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT2
RSS-247 ISSUE 3, AUGUST 2023

TEST REPORT

For

FCC: FitShow (Xiamen) Information Technology Co., Ltd

Unit 1302, No.1 Chengyi North Street, Software Park Phase III, Torch High tech Zone, Xiamen, China

IC: FitShow (Xiamen) Information Technology Co., Ltd.

Unit 1302, No.1 Chengyi North Street, Software Park Phase III, Torch High tech Zone, Xiamen 361000 China

FCC ID: 2AUIE-FSBTF5
IC: 34271-FSBTF5

Report Type:	**Product Name:**
Original Report	Bluetooth module

Report Number:	2507U02776E-RF-01
Report Date:	2025-07-16
Reviewed By:	Ash Lin
Approved By:	Miles Chen
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen Tel: +86-592-3200111 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507U02776E-RF-01	R1V1	2025-07-16	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	FCC: FitShow (Xiamen) Information Technology Co., Ltd IC: FitShow (Xiamen) Information Technology Co., Ltd.
Product Name:	Bluetooth module
Tested Model:	FS-BT-F5
HVIN:	FS-BT-F5
Multiple Model(s):	N/A
Trade Mark:	FitShow
Power Supply:	DC 3~5V
Maximum Peak Conducted Output Power:	-8.91 dBm
Frequency Range:	2402~2480MHz
Modulation Technique:	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	2.83 dBi
EUT Received Status:	Good
Note: *1. The Maximum Antenna Gain was declared by manufacturer.* *2. All measurement and test data in this report was gathered from production sample serial number: 34S8-1 (RF Conducted), 34S8-2(Conducted Emission and Radiated Emission) Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2025-06-16)*	

Objective

This test report is prepared for *FitShow (Xiamen) Information Technology Co., Ltd & FitShow (Xiamen) Information Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions's rules and RSS-247 Issue 3, August 2023 and RSS-Gen, Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

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 tests and measurements indicated in this document were performed in accordance with RSS-247 Issue 3, August 2023 of the Innovation, Science and Economic Development Canada & RSS-Gen, Issue 5, February 2021 Amendment 2: General Requirements for Compliance of Radio Apparatus & ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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.

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 IC accredited lab under the KDB 974614 D01, the IC Designation No. : CN0176.

Measurement Uncertainty

Item		U_{lab}
Conducted Emission	150kHz-30MHz	2.45 dB
Radiated 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~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		0.61 dB
Duty Cycle		1 %
Temperature		1 ℃
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 3.3V
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_assist_1.0.2.2

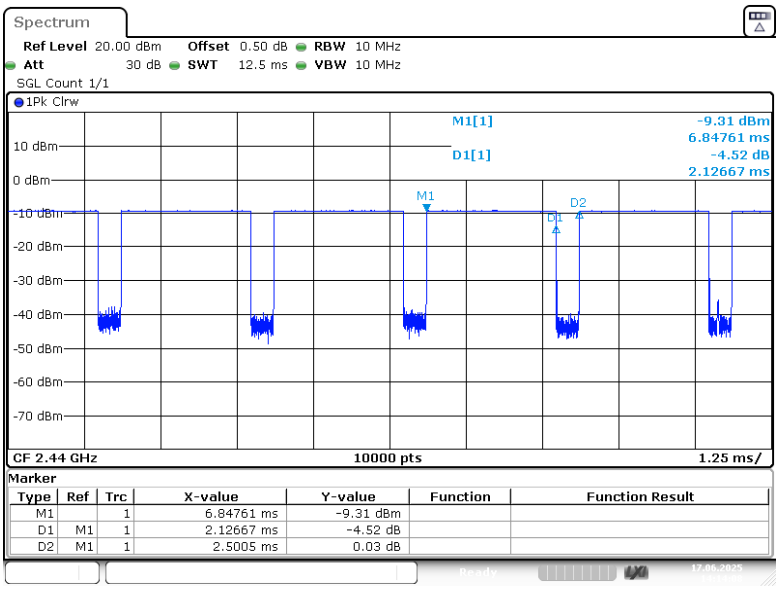
Mode	Power level		
	Low channel	Middle channel	High channel
BLE 1Mbps	default	default	default
BLE 2Mbps	default	default	default

Duty Cycle

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-06-17	Test Voltage:	DC 3.3V
Test Result:	Compliance	Environment:	Temp.: 23.6℃ Humi.: 56% Atm :100.2kPa

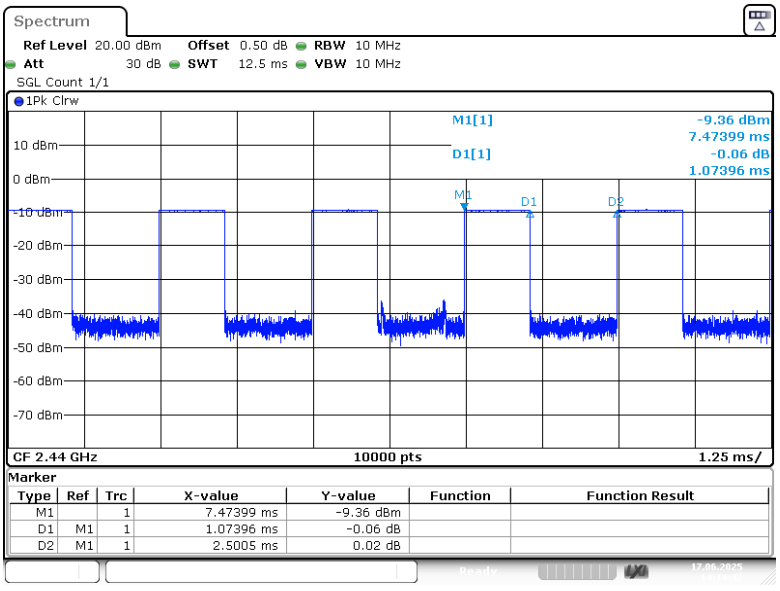
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
BLE 1Mbps	2440	2.127	2.501	85.05	470	0.50
BLE 2Mbps	2440	1.074	2.501	42.94	931	1.00

BLE 1Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma
Date: 17.JUN.2025 14:14:09

BLE 2Mbps Middle Channel



Support Equipment List and Details

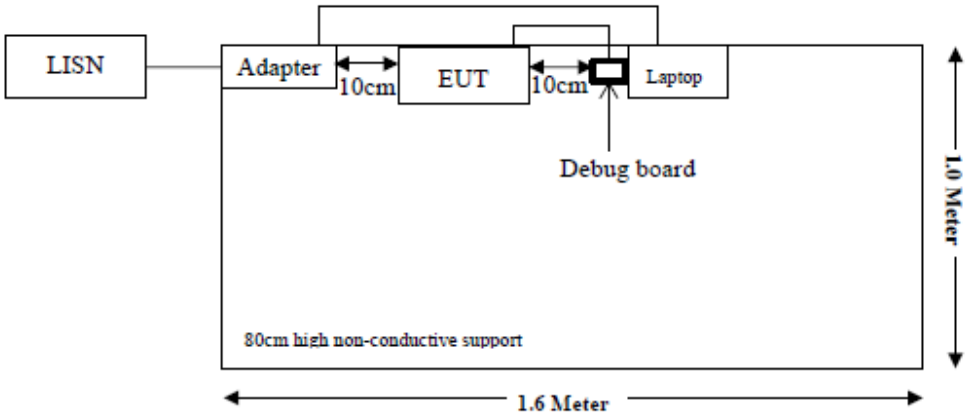
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F
Unknown	Debug board	Unknown	Unknown
Lenovo	Adapter	ADLX45YDC3D	SA10R16864

External I/O Cable

Cable Description	Length (m)	From Port	To
Cable	0.1	Debug board	EUT
Power Cable	2	Adapter	Laptop
USB Cable	10	Debug board	Laptop

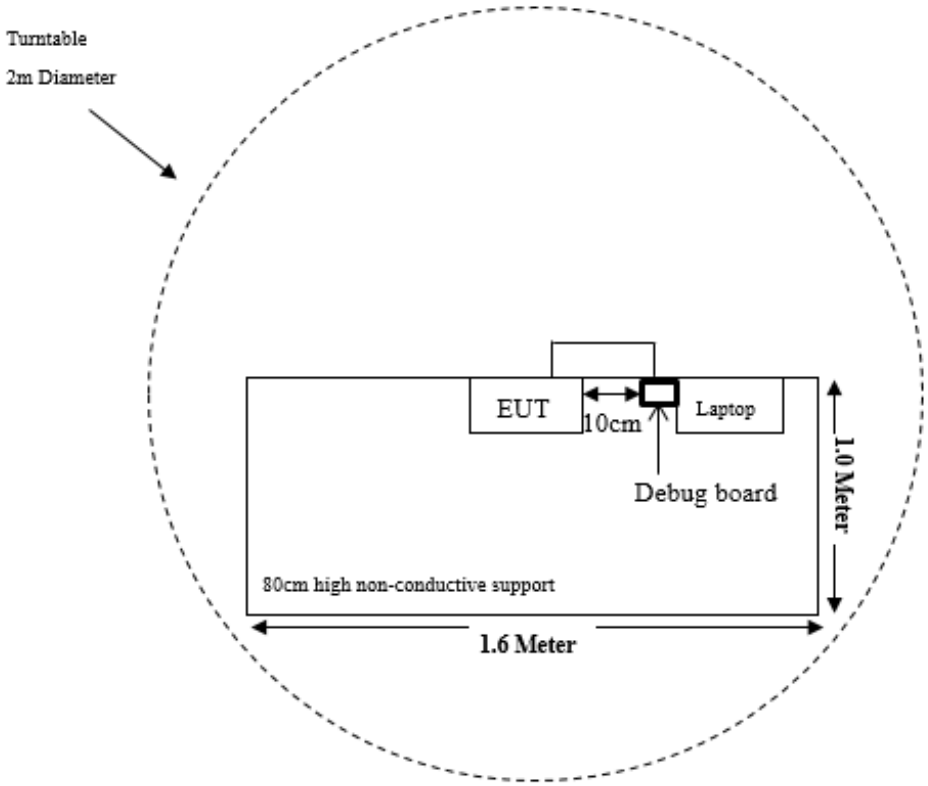
Block Diagram of Test Setup

Conducted Emission:

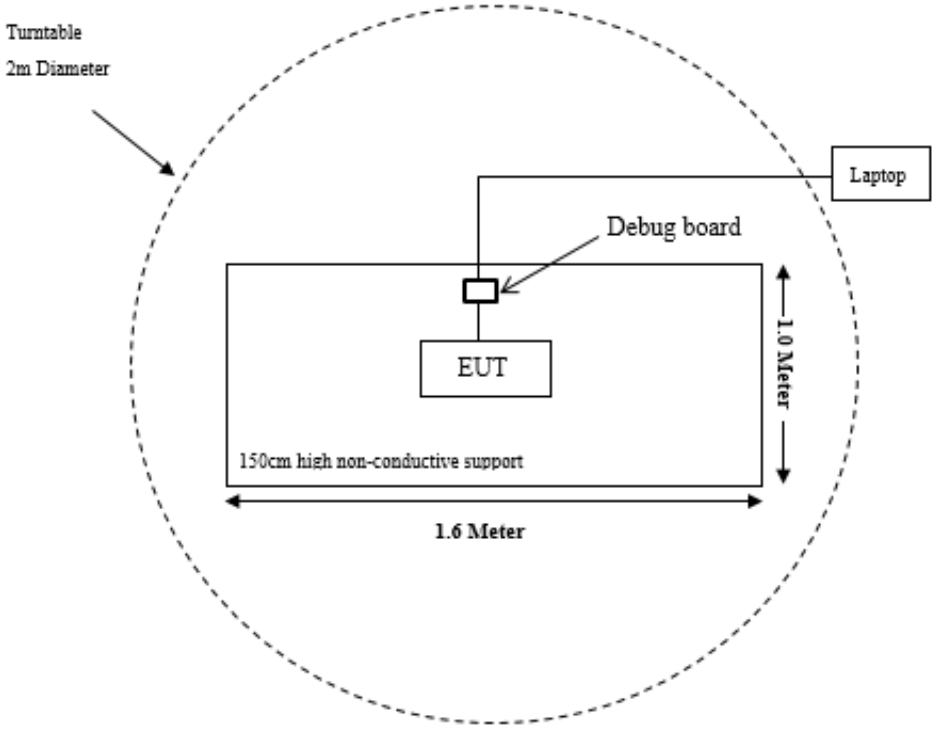


Radiated Emission:

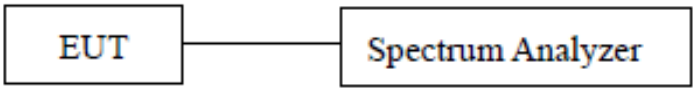
Below 1GHz:



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)/Rule(s)	Description of Test	Result
FCC §15.203 RSS-Gen Issue 5Clause 6.8	Antenna Requirement	Compliance
FCC §15.207 (a) RSS-Gen Issue 5Clause 8.8	AC Line Conducted Emissions	Compliance
FCC §15.205, §15.209, §15.247(d) RSS-247 Issue 3 Clause 5.5 RSS-Gen Issue 5Clause 8.10	Spurious Emissions	Compliance
FCC §15.247 (a)(2) RSS-247 Clause 5.2 a)	6 dB Emission Bandwidth	Compliance
RSS-Gen Issue 5Clause 6.7	99% Occupied Bandwidth	Compliance
FCC §15.247(b)(3) RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Compliance
FCC §15.247(d) RSS-247 Clause 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliance
FCC §15.247(e) RSS-247 Clause 5.2 b)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
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
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/2/20	2026/2/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/7/27	2026/7/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/7/27	2026/7/26
Amplifier	Sonoma	310B	120903	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/2/20	2026/2/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/2/20	2026/2/19
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2025/2/21	2026/2/20
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2025/2/21	2026/2/20
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2025/1/16	2026/1/15
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2025/2/20	2026/2/19
Horn Antenna	EMCO	3116	9407-2232	2023/7/31	2026/7/30
Preamplifier	A.H.Systems	PAM-1840	200	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2025/2/20	2026/2/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2025/2/20	2026/2/19
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/2/20	2026/2/19
Coaxial Cable	Lianxun	RF113	N/A	Each time	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 & RSS-Gen Clause 6.8 - 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.

According to RSS-Gen Clause 6.8 The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent is otropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one PCB antenna arrangement for BLE, which was permanently attached and the antenna gain is 2.83 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

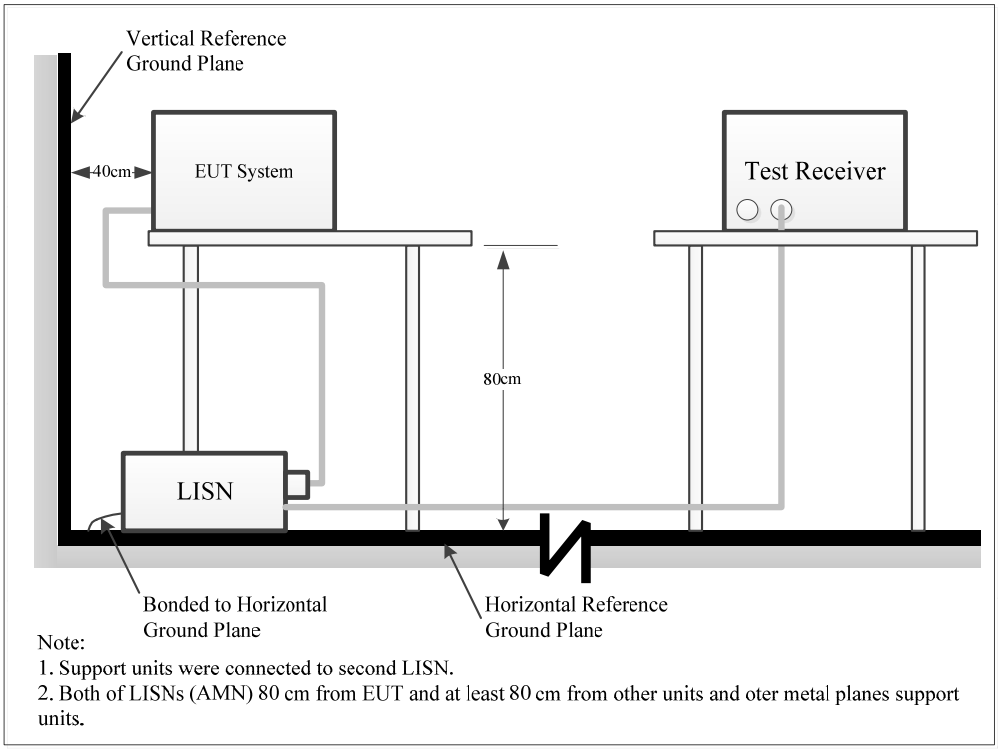
Result: Compliance

FCC §15.207 (a) & RSS-Gen Clause 8.8 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207, RSS-Gen Clause 8.8

EUT Setup



Note:
1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at least 80 cm from other units and oter metal planes support units.

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

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
Result (dBµV) = Reading (dBµV) + Factor (dB)

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:

Margin (dB) = Limit (dBµV) –Result (dBµV)

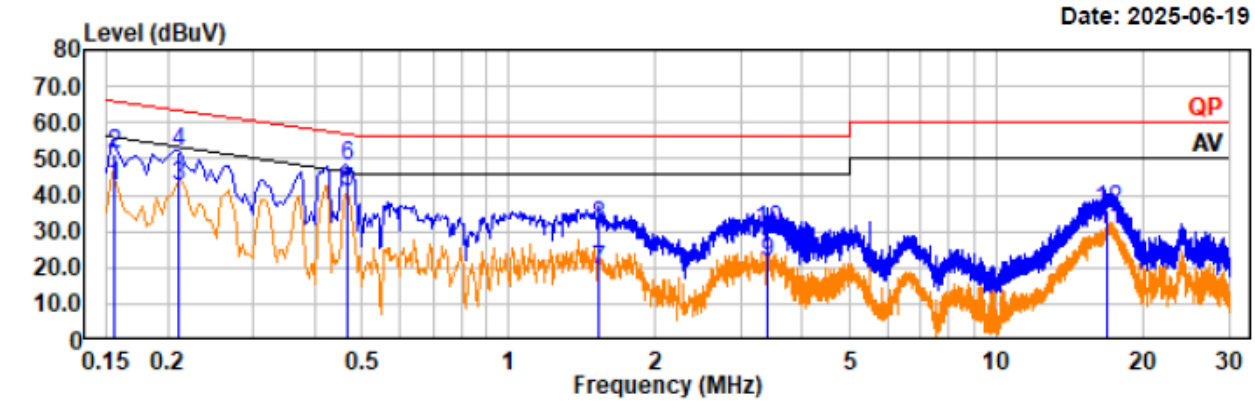
Test Data

Temperature:	24.6 ℃
Relative Humidity:	58 %
ATM Pressure:	99.8 kPa
Test Date:	2025-06-19
Test Engineer:	Wlif Wu

Note: The maximum output power mode: BLE 2Mbps high channel was tested.

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHZ
EUT Model: FS-BT-F5

Temp/Humi/ATM: 24.6℃/58%/99.8kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

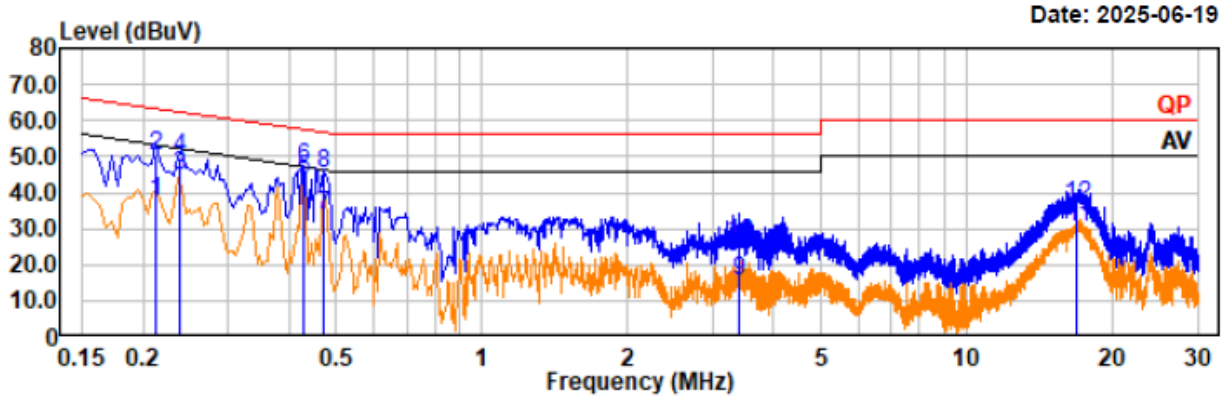


Trace: 1
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	22.42	20.00	42.42	55.68	13.26	Line	Average
0.16	31.40	20.00	51.40	65.68	14.28	Line	QP
0.21	22.00	20.50	42.50	53.21	10.71	Line	Average
0.21	31.12	20.50	51.62	63.21	11.59	Line	QP
0.47	19.90	21.05	40.95	46.55	5.60	Line	Average
0.47	26.81	21.05	47.86	56.55	8.69	Line	QP
1.54	-0.99	20.29	19.30	46.00	26.70	Line	Average
1.54	11.33	20.29	31.62	56.00	24.38	Line	QP
3.40	0.51	21.03	21.54	46.00	24.46	Line	Average
3.40	9.46	21.03	30.49	56.00	25.51	Line	QP
16.88	9.48	20.64	30.12	50.00	19.88	Line	Average
16.88	15.18	20.64	35.82	60.00	24.18	Line	QP

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHZ
EUT Model: FS-BT-F5

Temp/Humi/ATM: 24.6℃/58%/99.8kPa
Tested by: Wlif Wu
Power Source: DC 3.3V



Trace: 1
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.21	16.58	20.76	37.34	53.13	15.79	Neutral	Average
0.21	29.42	20.76	50.18	63.13	12.95	Neutral	QP
0.24	23.87	20.73	44.60	52.17	7.57	Neutral	Average
0.24	28.75	20.73	49.48	62.17	12.69	Neutral	QP
0.43	23.09	20.62	43.71	47.25	3.54	Neutral	Average
0.43	26.47	20.62	47.09	57.25	10.16	Neutral	QP
0.47	13.25	20.60	33.85	46.50	12.65	Neutral	Average
0.47	24.77	20.60	45.37	56.50	11.13	Neutral	QP
3.39	-4.14	19.69	15.55	46.00	30.45	Neutral	Average
3.39	6.22	19.69	25.91	56.00	30.09	Neutral	QP
16.88	9.86	20.60	30.46	50.00	19.54	Neutral	Average
16.88	15.63	20.60	36.23	60.00	23.77	Neutral	QP

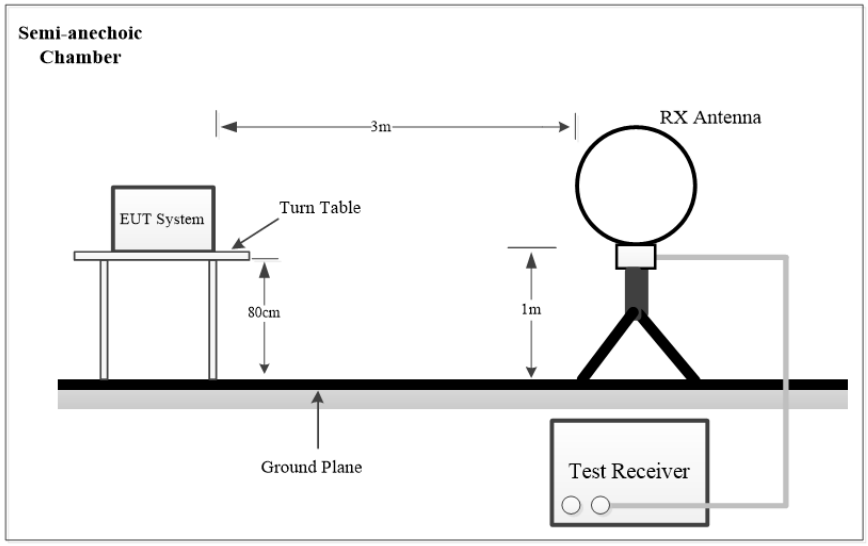
FCC §15.209, §15.205 & §15.247(d) & RSS-247 ISSUE 3 Clause 5.5, RSS-GEN ISSUE5 CLAUSE 8.10 - SPURIOUS EMISSIONS

Applicable Standard

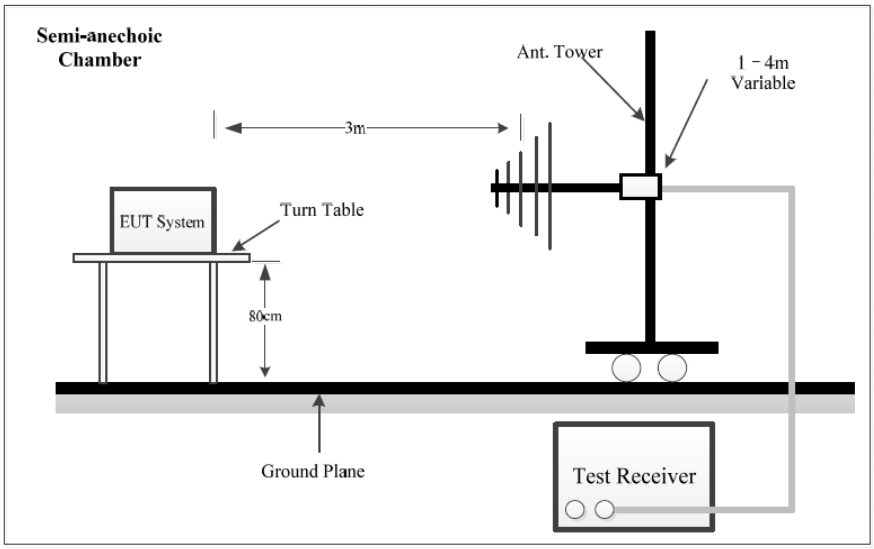
FCC §15.247 (d); §15.209; §15.205; RSS-247 Issue 3 Clause 5.5; RSS-Gen Issue5 Clause 8.10

EUT Setup

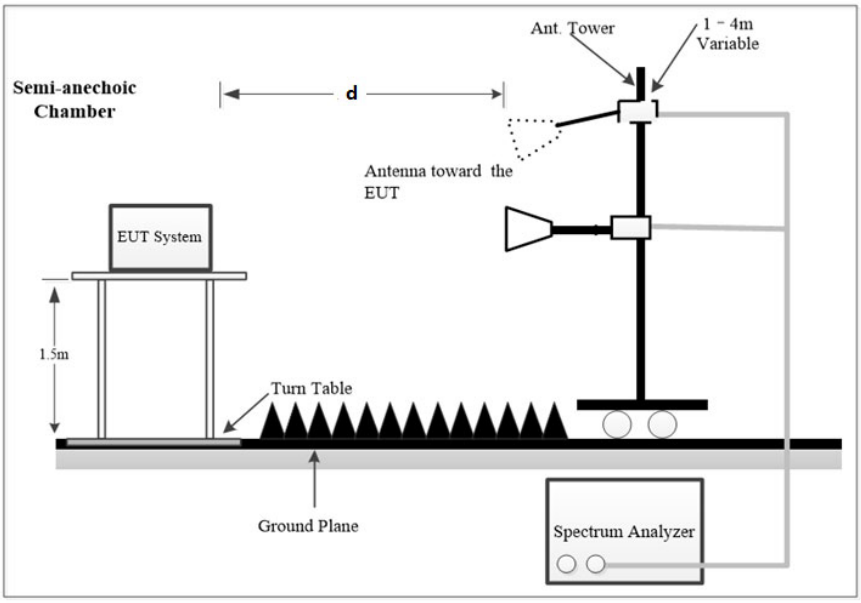
9 kHz-30MHz:



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, RSS-247, RSS-Gen 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 (specific distance [3m]/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 and Bandedge emissions test

Factor (dB/m) =Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

For 18GHz to 25GHz Radiated emission test
Factor (dB/m) =Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB) - Extrapolation factor (dB)

Extrapolation factor=6 dB (distance=1.5m)

Result (dBμV/m) = Reading (dBμV) + 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:

Margin (dB) = Limit (dBµV/m) –Result (dBµV/m)

The spurious emission from 9 kHz-30MHz of IC RSS-Gen standard, the unit of final result on the test plots are dBµV/m, so the limit should be added by 51.5dB from dBµA/m to dBµV/m.

Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	23.0°C	23.0°C
Relative Humidity:	56%	56%
ATM Pressure:	100.1kPa	100.1kPa
Test Date:	2025-06-24	2025-06-24
Test Engineer:	Wlif Wu	Wlif Wu

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

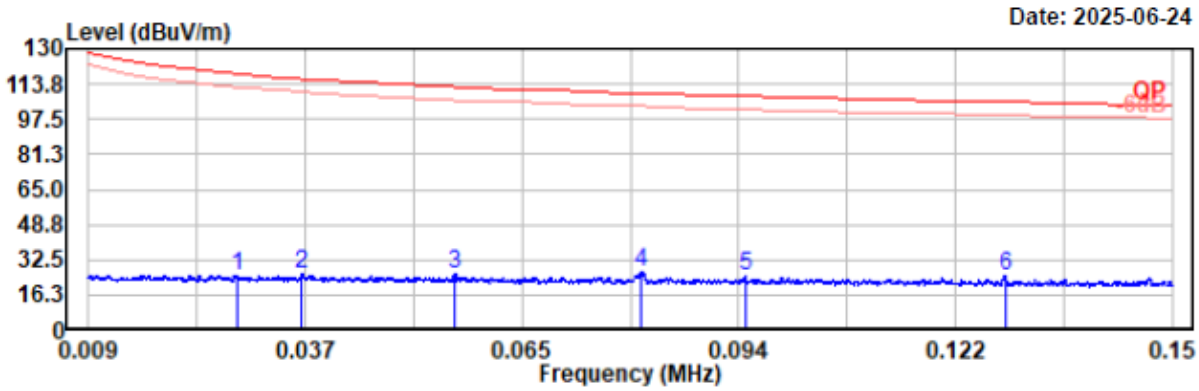
1) 9 kHz~30MHz

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

Note: The maximum output power mode: BLE 2Mbps high channel was tested.

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

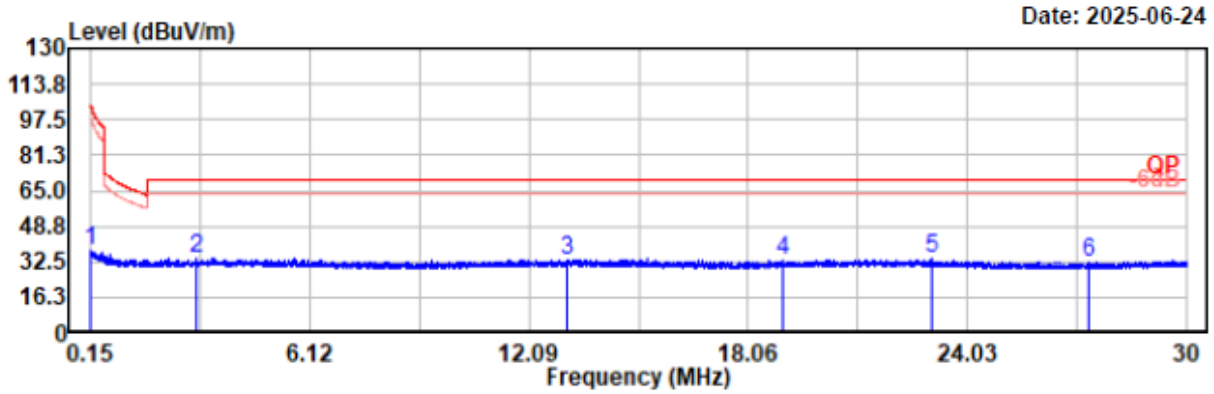


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
0.028	5.57	19.89	25.46	118.57	93.11	Peak
0.037	6.06	19.91	25.97	116.30	90.33	Peak
0.057	6.44	19.91	26.35	112.54	86.19	Peak
0.081	7.37	19.72	27.09	109.45	82.36	Peak
0.094	5.23	19.78	25.01	108.10	83.09	Peak
0.128	5.12	19.73	24.85	105.44	80.59	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V



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

Freq	Reading	Factor	Result	Limit	Margin	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
0.150	17.51	19.72	37.23	104.08	66.85	Peak
3.036	14.18	19.85	34.03	69.54	35.51	Peak
13.144	13.83	19.74	33.57	69.54	35.97	Peak
19.021	13.15	20.02	33.17	69.54	36.37	Peak
23.039	13.76	20.17	33.93	69.54	35.61	Peak
27.361	12.06	20.10	32.16	69.54	37.38	Peak

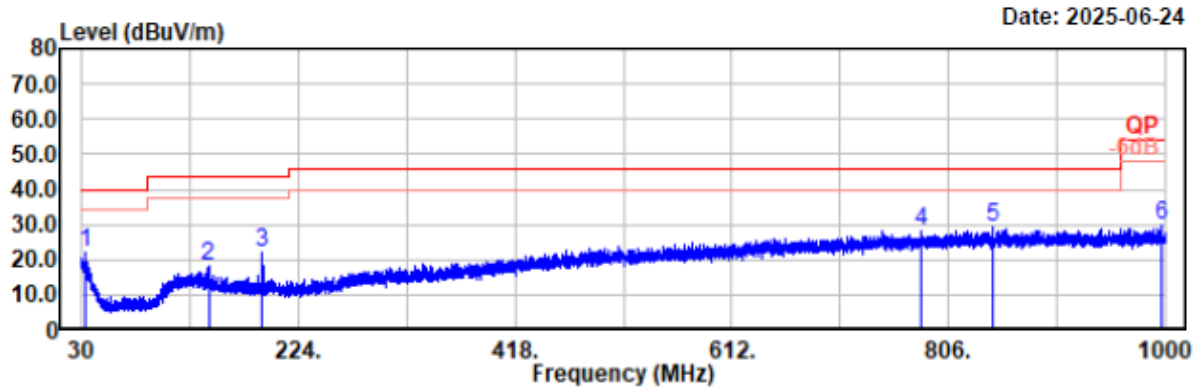
Note: dBuV/m=dBuA/m+51.5dB

2) 30MHz -1GHz

Note: The maximum output power mode: BLE 2Mbps high channel was tested.

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

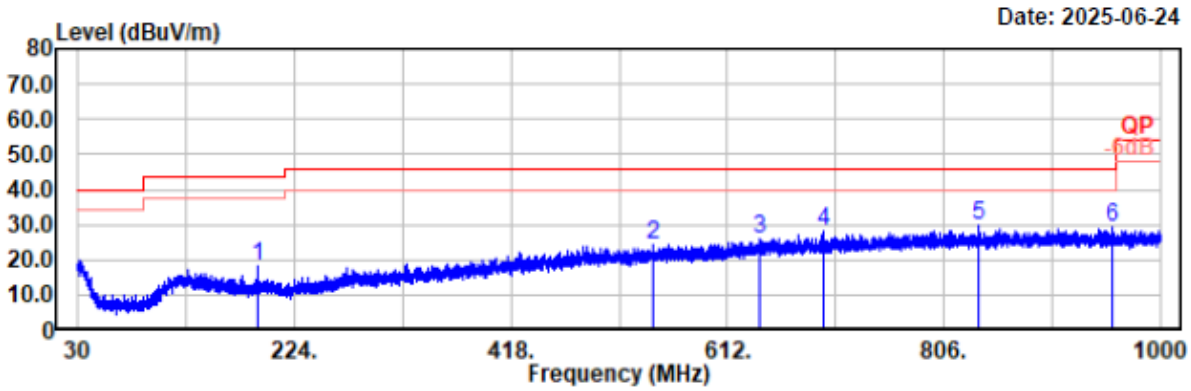


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
32.43	28.44	-6.63	21.81	40.00	18.19	Horizontal	Peak
143.49	28.94	-10.93	18.01	43.50	25.49	Horizontal	Peak
191.99	34.14	-12.17	21.97	43.50	21.53	Horizontal	Peak
781.75	27.14	1.08	28.22	46.00	17.78	Horizontal	Peak
846.35	27.22	1.86	29.08	46.00	16.92	Horizontal	Peak
996.80	25.87	4.06	29.93	54.00	24.07	Horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V



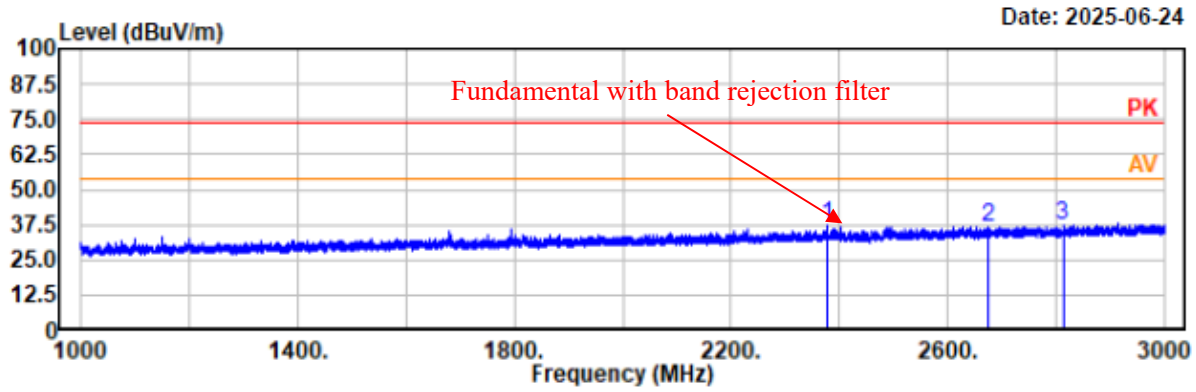
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
191.51	30.11	-12.17	17.94	43.50	25.56	Vertical	Peak
546.14	27.45	-2.92	24.53	46.00	21.47	Vertical	Peak
641.59	26.78	-1.11	25.67	46.00	20.33	Vertical	Peak
698.23	28.32	-0.43	27.89	46.00	18.11	Vertical	Peak
836.85	27.95	1.79	29.74	46.00	16.26	Vertical	Peak
956.35	25.85	3.29	29.14	46.00	16.86	Vertical	Peak

3) 1GHz~3GHz

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

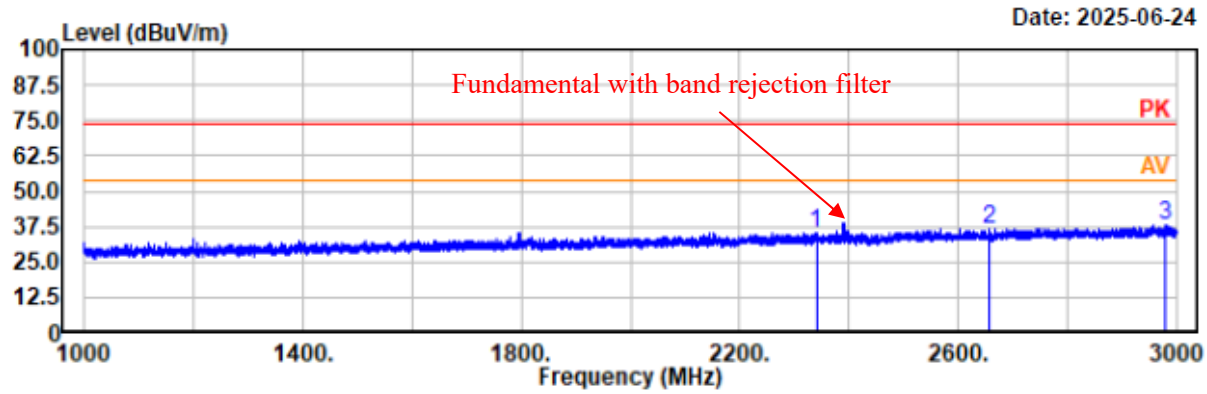


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2378.60	48.33	-11.21	37.12	74.00	36.88	horizontal	Peak
2673.40	46.99	-10.11	36.88	74.00	37.12	horizontal	Peak
2812.80	47.22	-9.75	37.47	74.00	36.53	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

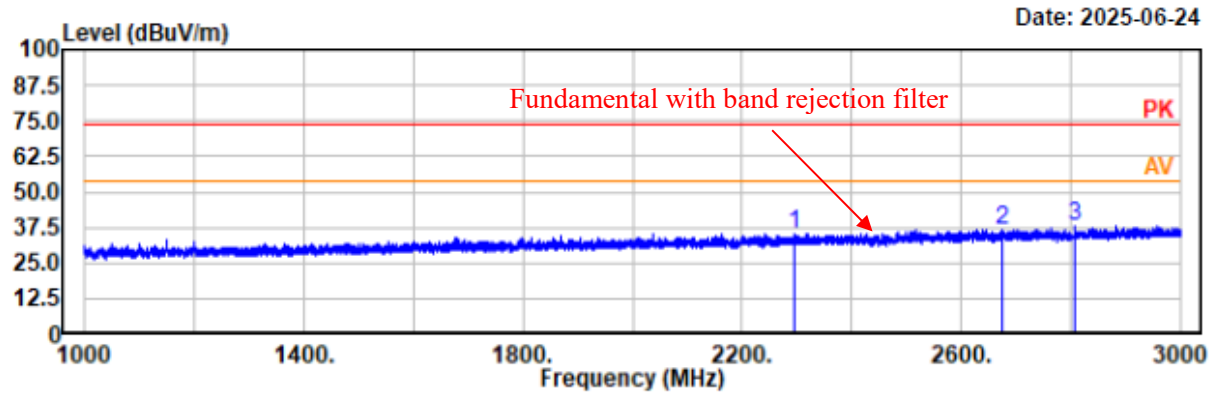


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2340.20	46.66	-11.34	35.32	74.00	38.68	vertical	Peak
2656.00	46.93	-10.18	36.75	74.00	37.25	vertical	Peak
2979.40	46.84	-9.05	37.79	74.00	36.21	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

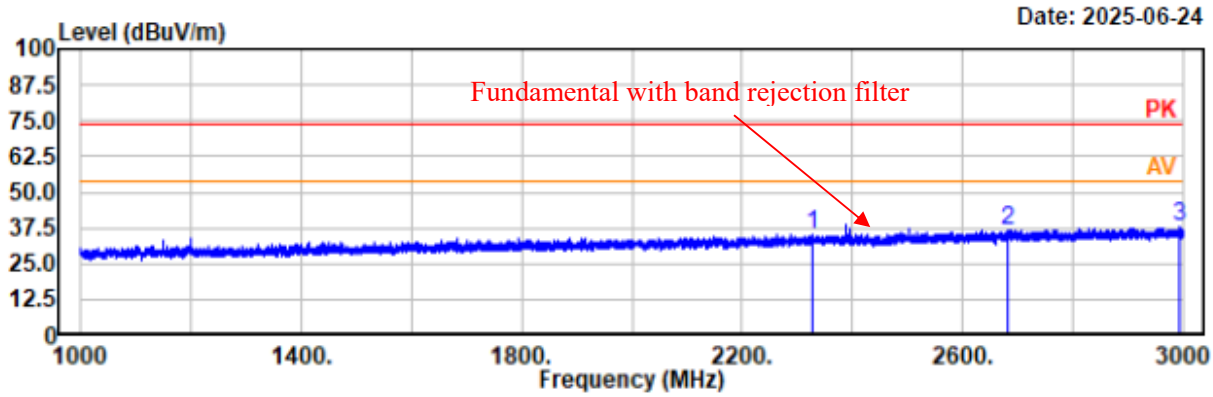


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2296.40	46.72	-11.44	35.28	74.00	38.72	horizontal	Peak
2675.00	46.92	-10.11	36.81	74.00	37.19	horizontal	Peak
2808.40	47.87	-9.77	38.10	74.00	35.90	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

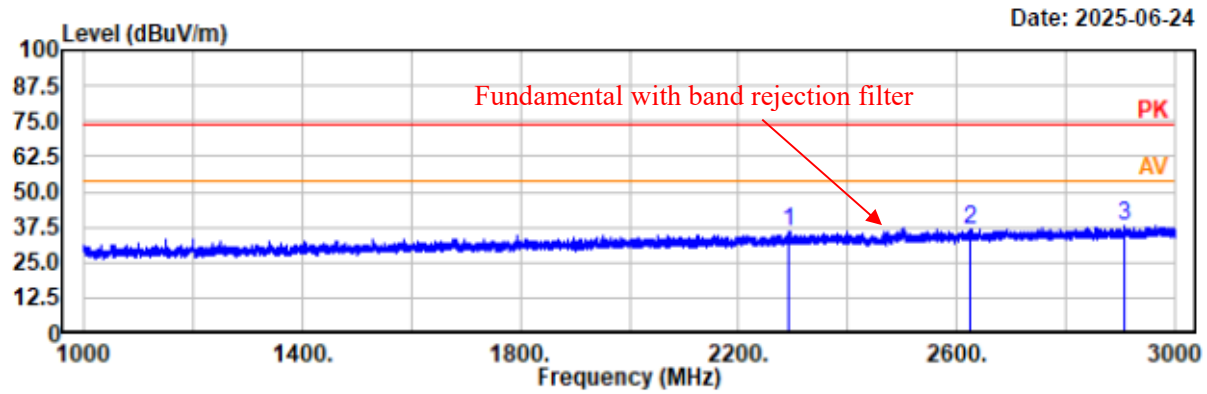


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2328.20	46.57	-11.36	35.21	74.00	38.79	vertical	Peak
2683.40	46.96	-10.07	36.89	74.00	37.11	vertical	Peak
2994.80	46.65	-8.97	37.68	74.00	36.32	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

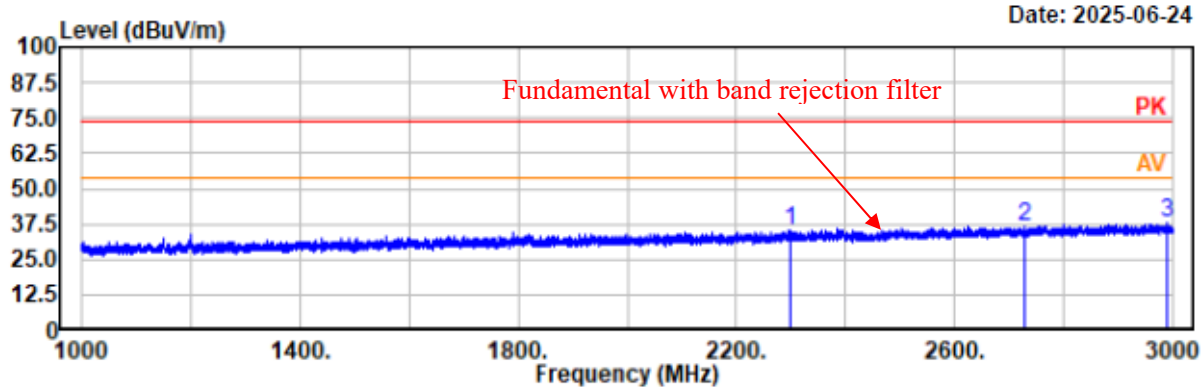


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2290.60	47.53	-11.50	36.03	74.00	37.97	horizontal	Peak
2626.00	47.01	-10.30	36.71	74.00	37.29	horizontal	Peak
2909.20	47.46	-9.48	37.98	74.00	36.02	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

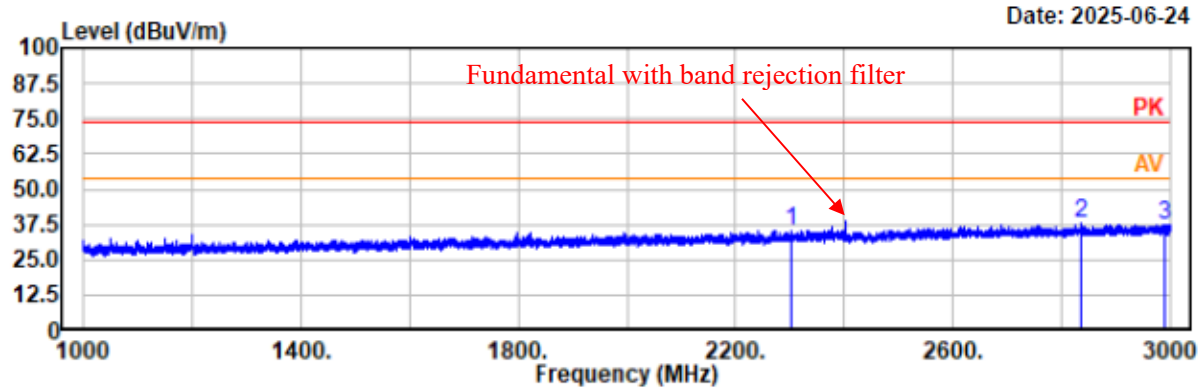


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2299.60	46.71	-11.42	35.29	74.00	38.71	vertical	Peak
2729.60	46.77	-9.97	36.80	74.00	37.20	vertical	Peak
2988.80	46.66	-9.00	37.66	74.00	36.34	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

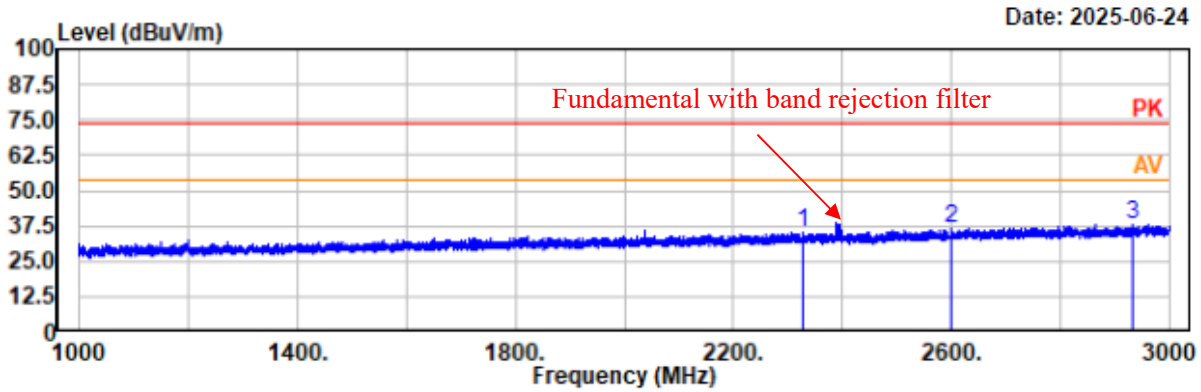


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2302.40	46.79	-11.42	35.37	74.00	38.63	horizontal	Peak
2836.80	47.51	-9.66	37.85	74.00	36.15	horizontal	Peak
2989.20	46.27	-9.00	37.27	74.00	36.73	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

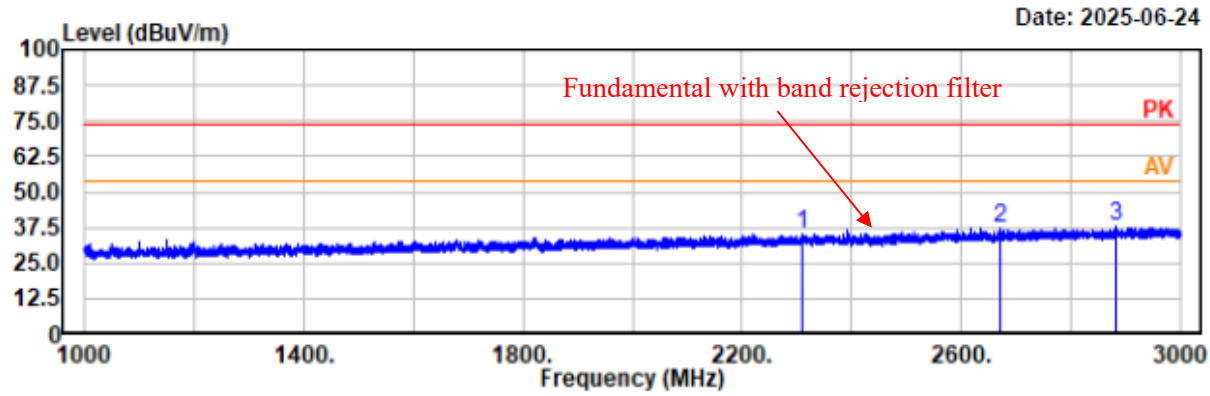


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2329.20	46.80	-11.36	35.44	74.00	38.56	vertical	Peak
2600.00	47.14	-10.40	36.74	74.00	37.26	vertical	Peak
2932.00	47.03	-9.33	37.70	74.00	36.30	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

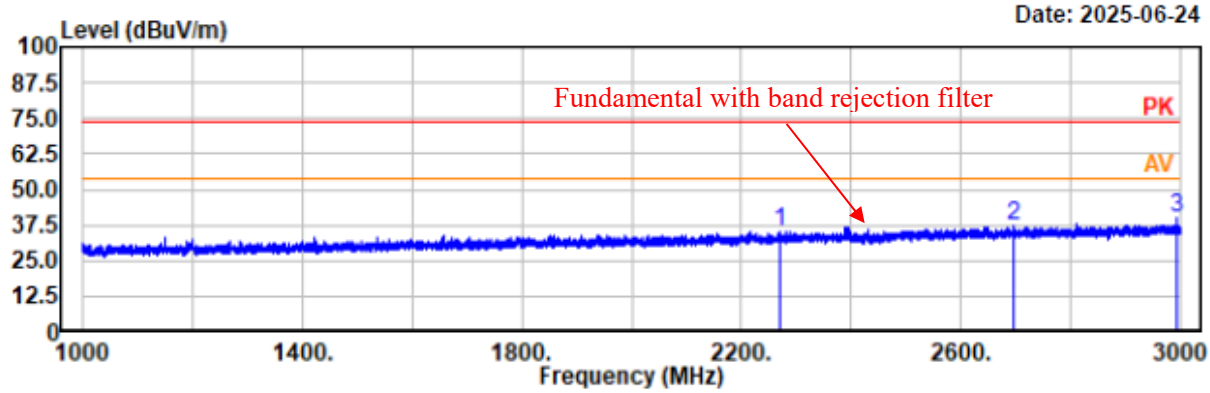


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2308.20	46.62	-11.40	35.22	74.00	38.78	horizontal	Peak
2672.60	47.19	-10.11	37.08	74.00	36.92	horizontal	Peak
2881.60	47.20	-9.59	37.61	74.00	36.39	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

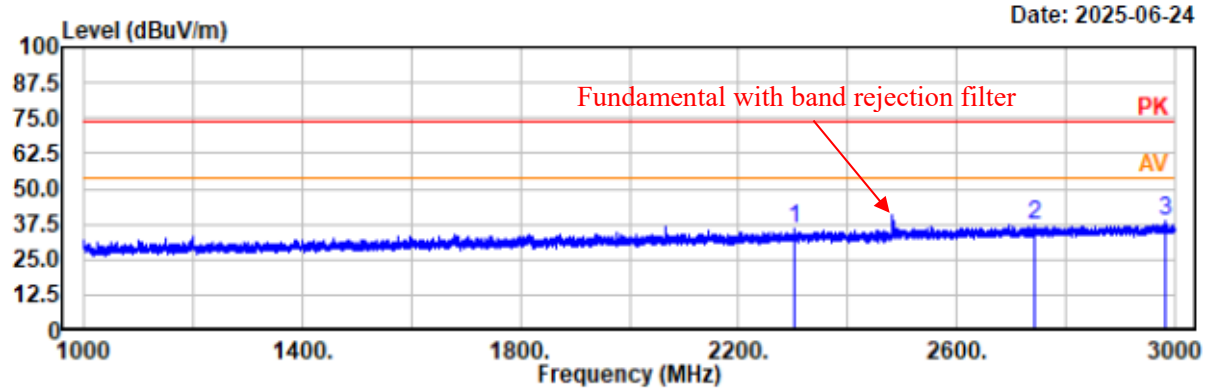


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2270.60	47.05	-11.64	35.41	74.00	38.59	vertical	Peak
2697.40	47.49	-10.01	37.48	74.00	36.52	vertical	Peak
2994.00	48.97	-8.98	39.99	74.00	34.01	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

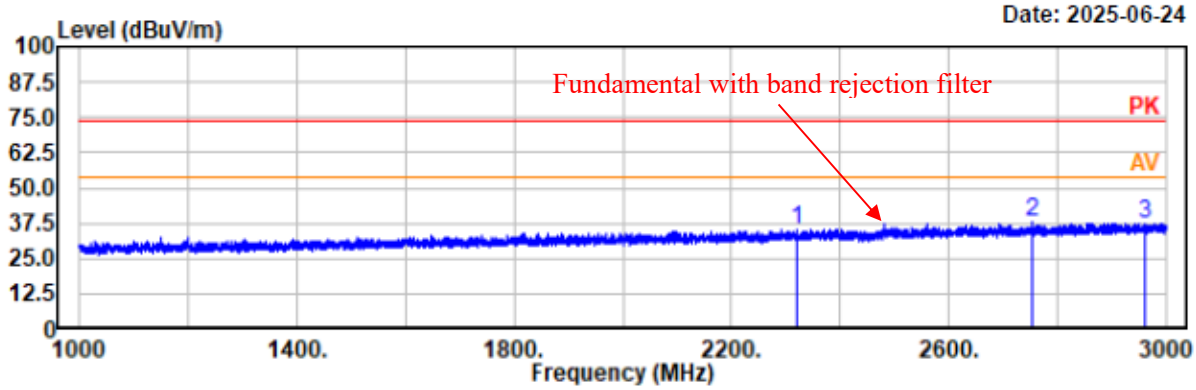


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2302.20	47.15	-11.42	35.73	74.00	38.27	horizontal	Peak
2743.60	47.38	-9.95	37.43	74.00	36.57	horizontal	Peak
2984.00	47.31	-9.02	38.29	74.00	35.71	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V



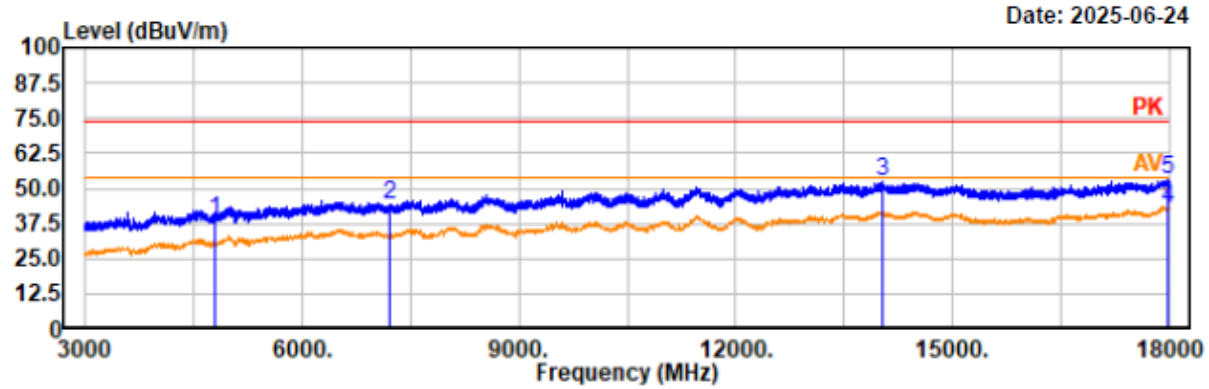
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2319.80	46.84	-11.38	35.46	74.00	38.54	vertical	Peak
2753.60	47.60	-9.93	37.67	74.00	36.33	vertical	Peak
2960.00	46.53	-9.16	37.37	74.00	36.63	vertical	Peak

4) 3GHz~18GHz

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

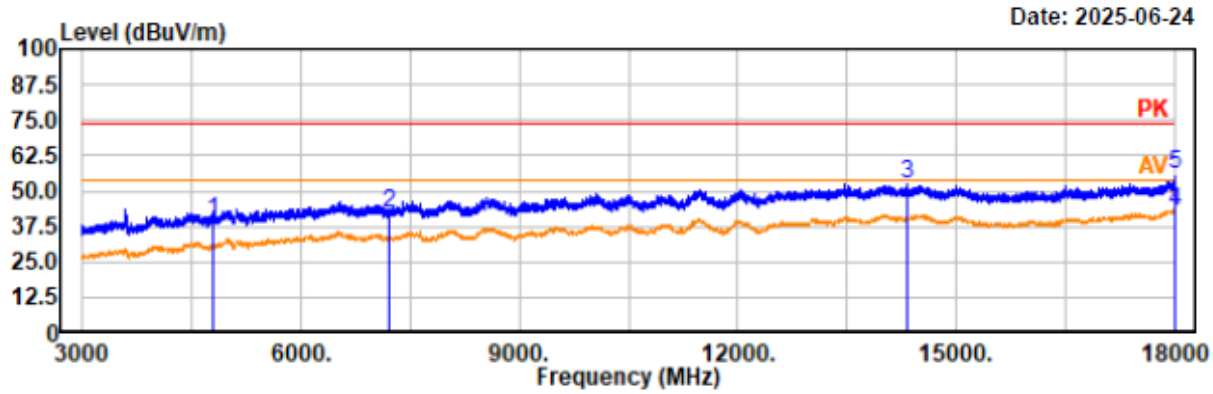


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
4804.00	43.93	-5.24	38.69	74.00	35.31	horizontal	Peak
7206.00	46.36	-2.55	43.81	74.00	30.19	horizontal	Peak
14026.50	46.84	5.23	52.07	74.00	21.93	horizontal	Peak
17988.00	36.11	6.89	43.00	54.00	11.00	horizontal	Average
17988.00	46.42	6.89	53.31	74.00	20.69	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

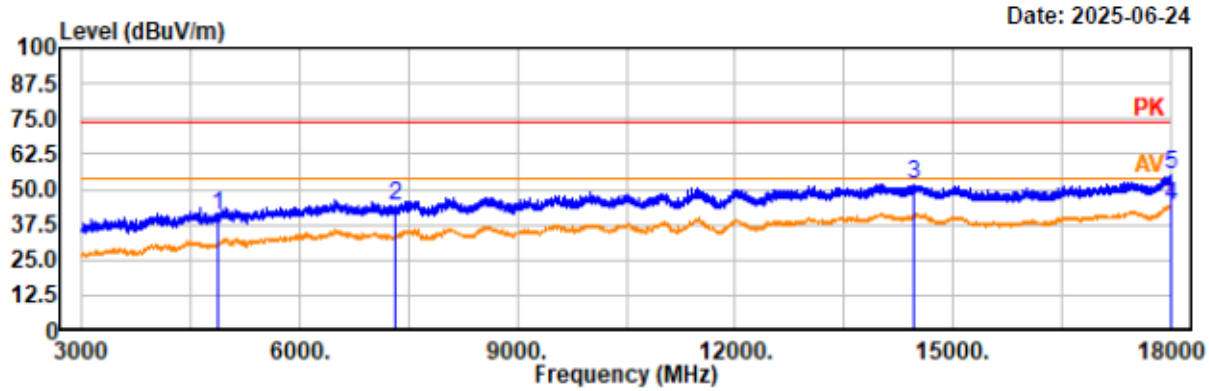


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.47	-5.24	39.23	74.00	34.77	vertical	Peak
7206.00	44.77	-2.55	42.22	74.00	31.78	vertical	Peak
14335.50	46.92	5.28	52.20	74.00	21.80	vertical	Peak
17999.99	36.14	6.91	43.05	54.00	10.95	vertical	Average
17999.99	48.61	6.91	55.52	74.00	18.48	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

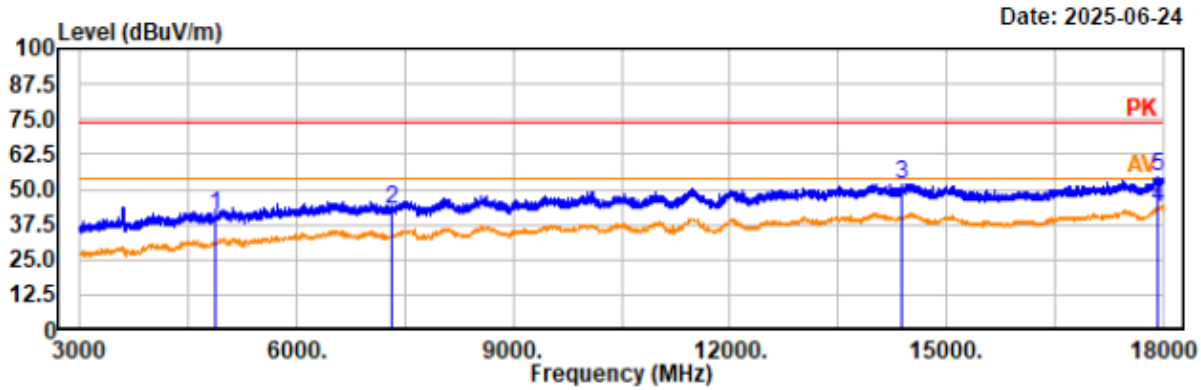


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
4880.00	45.71	-5.30	40.41	74.00	33.59	horizontal	Peak
7320.00	46.34	-2.25	44.09	74.00	29.91	horizontal	Peak
14463.00	46.64	5.13	51.77	74.00	22.23	horizontal	Peak
17992.50	36.89	6.90	43.79	54.00	10.21	horizontal	Average
17992.50	48.07	6.90	54.97	74.00	19.03	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

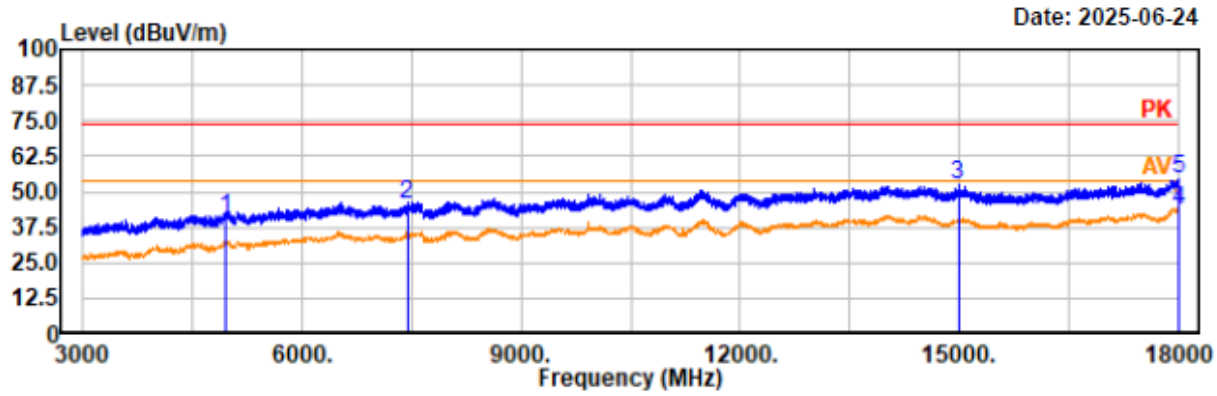


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
4880.00	46.16	-5.30	40.86	74.00	33.14	vertical	Peak
7320.00	45.29	-2.25	43.04	74.00	30.96	vertical	Peak
14382.00	46.66	5.25	51.91	74.00	22.09	vertical	Peak
17937.00	36.46	6.84	43.30	54.00	10.70	vertical	Average
17937.00	47.92	6.84	54.76	74.00	19.24	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

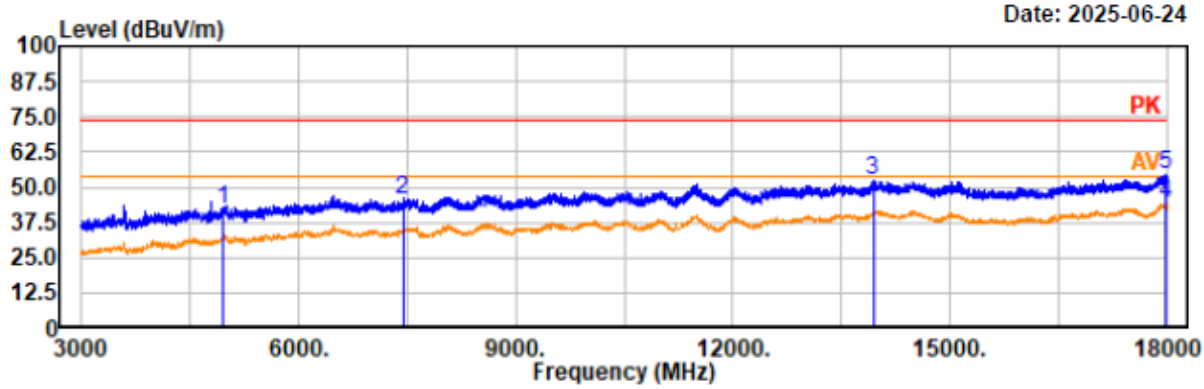


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	45.92	-5.11	40.81	74.00	33.19	horizontal	Peak
7440.00	47.66	-2.03	45.63	74.00	28.37	horizontal	Peak
14985.00	47.93	4.48	52.41	74.00	21.59	horizontal	Peak
17995.50	36.82	6.91	43.73	54.00	10.27	horizontal	Average
17995.50	47.24	6.91	54.15	74.00	19.85	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

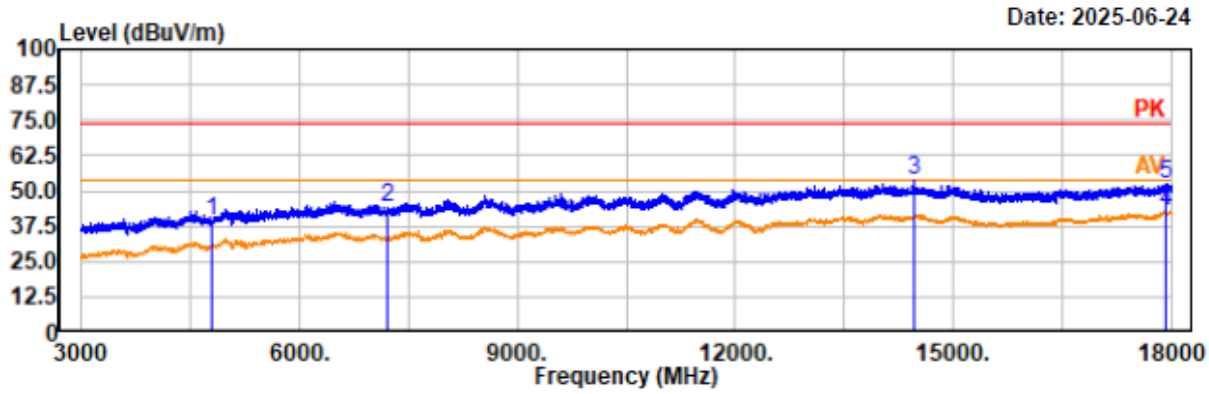


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	47.15	-5.11	42.04	74.00	31.96	vertical	Peak
7440.00	47.81	-2.03	45.78	74.00	28.22	vertical	Peak
13938.00	47.30	5.19	52.49	74.00	21.51	vertical	Peak
17988.00	37.26	6.89	44.15	54.00	9.85	vertical	Average
17988.00	47.81	6.89	54.70	74.00	19.30	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

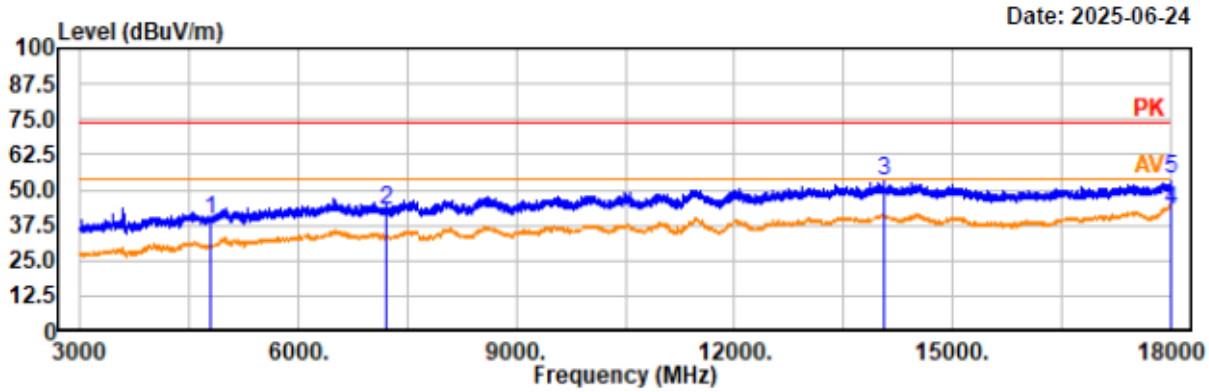


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
4804.00	44.57	-5.24	39.33	74.00	34.67	horizontal	Peak
7206.00	46.60	-2.55	44.05	74.00	29.95	horizontal	Peak
14461.50	48.44	5.14	53.58	74.00	20.42	horizontal	Peak
17925.00	35.78	6.84	42.62	54.00	11.38	horizontal	Average
17925.00	45.65	6.84	52.49	74.00	21.51	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

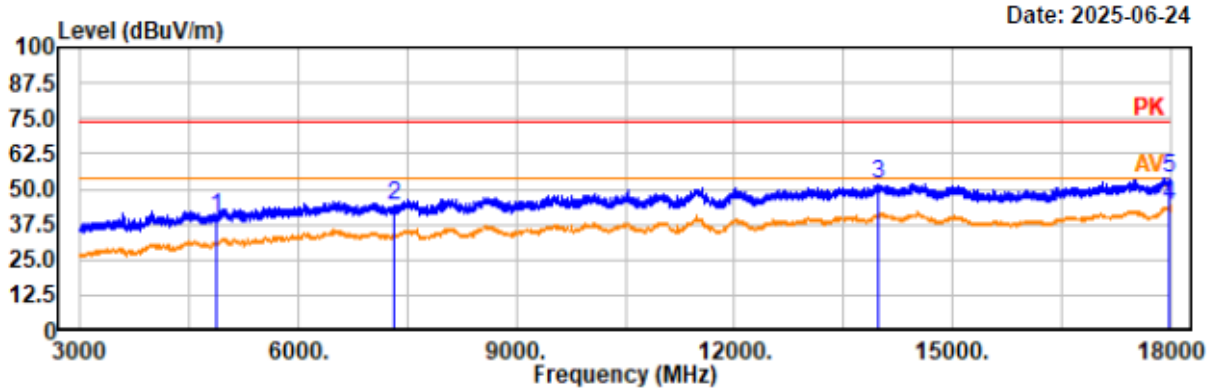


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
4804.00	44.69	-5.24	39.45	74.00	34.55	vertical	Peak
7206.00	45.33	-2.55	42.78	74.00	31.22	vertical	Peak
14047.50	48.01	5.27	53.28	74.00	20.72	vertical	Peak
17999.99	35.55	6.91	42.46	54.00	11.54	vertical	Average
17999.99	46.79	6.91	53.70	74.00	20.30	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

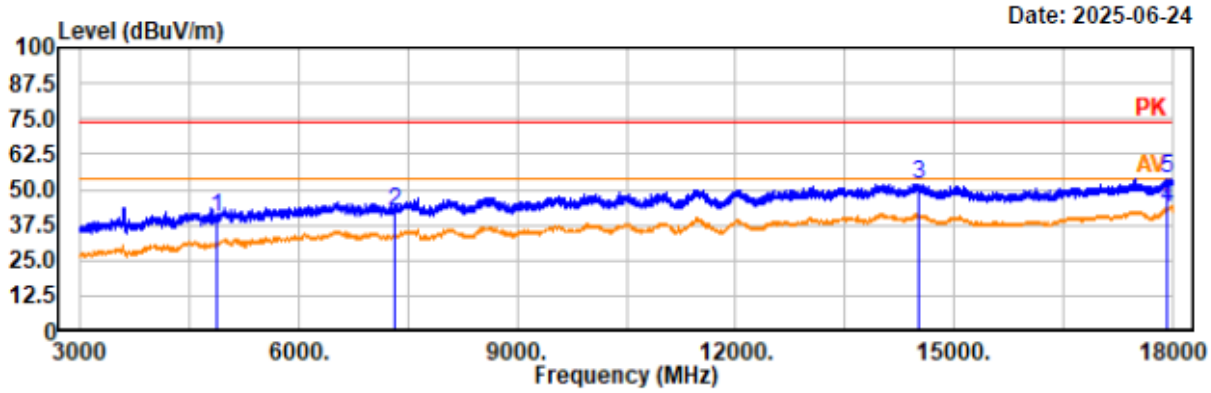


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	45.25	-5.30	39.95	74.00	34.05	horizontal	Peak
7320.00	46.68	-2.25	44.43	74.00	29.57	horizontal	Peak
13986.00	46.63	5.20	51.83	74.00	22.17	horizontal	Peak
17976.00	36.92	6.89	43.81	54.00	10.19	horizontal	Average
17976.00	47.23	6.89	54.12	74.00	19.88	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

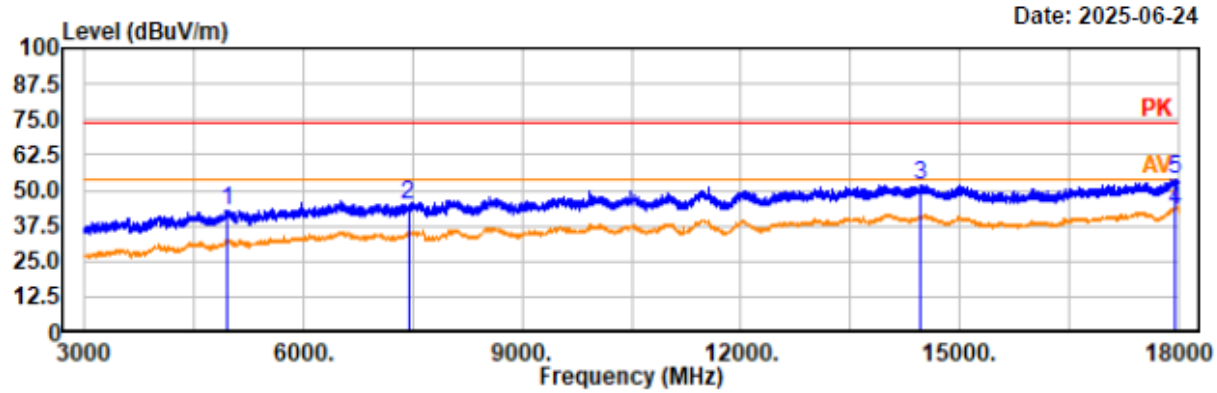


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	45.22	-5.30	39.92	74.00	34.08	vertical	Peak
7320.00	44.37	-2.25	42.12	74.00	31.88	vertical	Peak
14518.50	46.96	5.06	52.02	74.00	21.98	vertical	Peak
17923.50	36.58	6.83	43.41	54.00	10.59	vertical	Average
17923.50	47.28	6.83	54.11	74.00	19.89	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

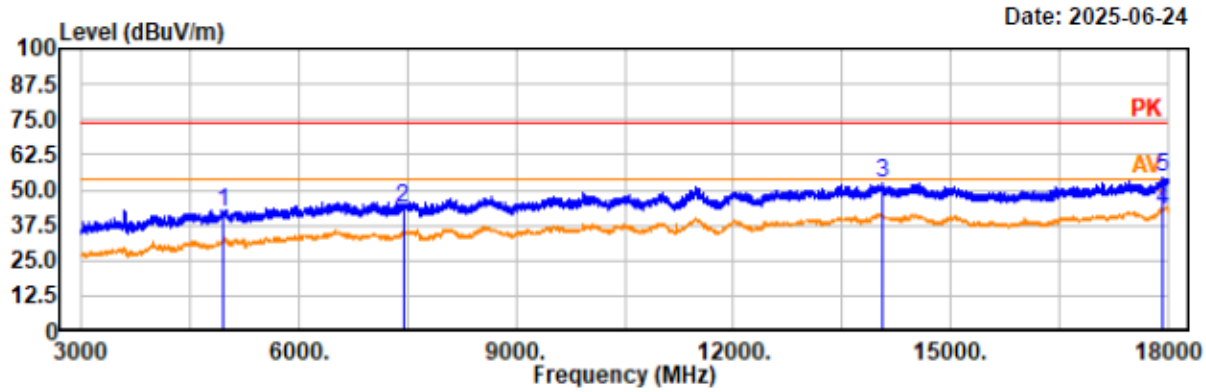


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
4960.00	48.14	-5.11	43.03	74.00	30.97	horizontal	Peak
7440.00	47.01	-2.03	44.98	74.00	29.02	horizontal	Peak
14458.50	46.84	5.14	51.98	74.00	22.02	horizontal	Peak
17959.50	36.23	6.86	43.09	54.00	10.91	horizontal	Average
17959.50	47.03	6.86	53.89	74.00	20.11	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V



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

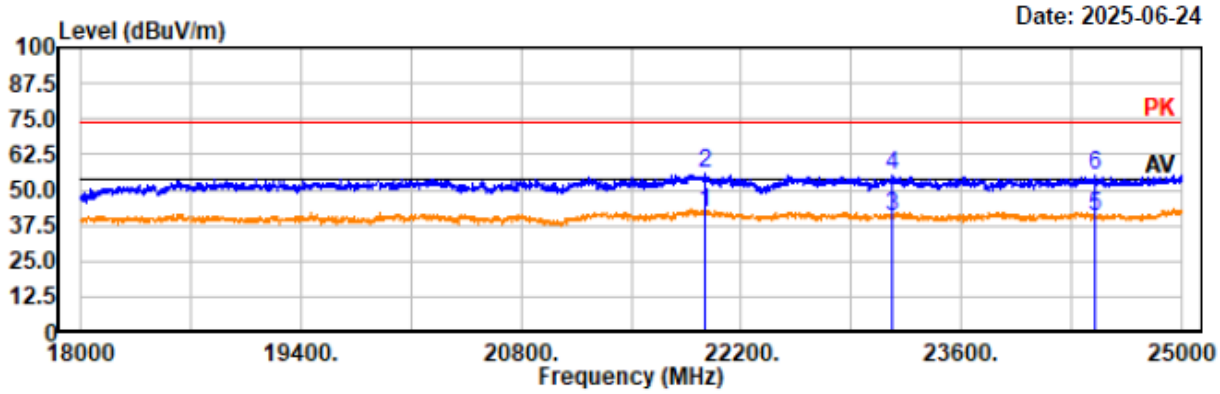
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	47.20	-5.11	42.09	74.00	31.91	vertical	Peak
7440.00	45.35	-2.03	43.32	74.00	30.68	vertical	Peak
14047.50	46.92	5.27	52.19	74.00	21.81	vertical	Peak
17929.50	36.25	6.84	43.09	54.00	10.91	vertical	Average
17929.50	47.34	6.84	54.18	74.00	19.82	vertical	Peak

5) Above 18GHz

Note: The maximum output power mode: BLE 2Mbps high channel was tested.

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 1.5m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

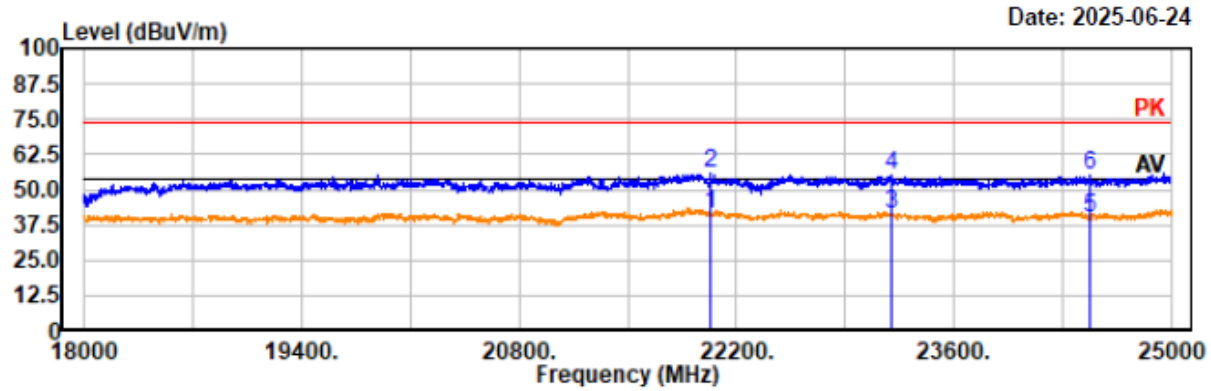


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
21971.00	36.84	5.22	42.06	54.00	11.94	horizontal	Average
21971.00	50.40	5.22	55.62	74.00	18.38	horizontal	Peak
23156.80	35.96	4.92	40.88	54.00	13.12	horizontal	Average
23156.80	49.98	4.92	54.90	74.00	19.10	horizontal	Peak
24457.00	34.43	6.16	40.59	54.00	13.41	horizontal	Average
24457.00	48.74	6.16	54.90	74.00	19.10	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 1.5m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V



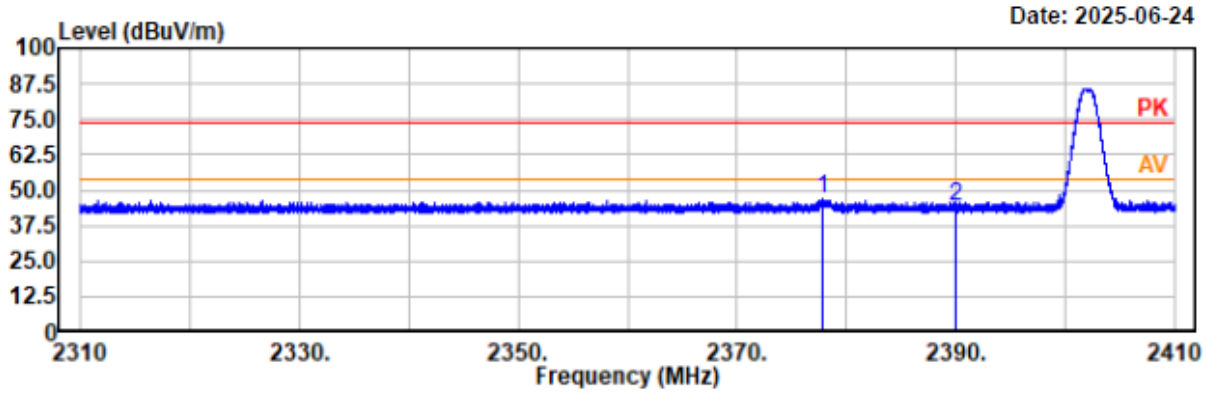
Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
22030.40	36.51	5.17	41.68	54.00	12.32	vertical	Average
22030.40	50.36	5.17	55.53	74.00	18.47	vertical	Peak
23196.40	36.57	4.91	41.48	54.00	12.52	vertical	Average
23196.40	50.38	4.91	55.29	74.00	18.71	vertical	Peak
24470.20	34.10	6.17	40.27	54.00	13.73	vertical	Average
24470.20	48.75	6.17	54.92	74.00	19.08	vertical	Peak

Restricted Bands Emissions:

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

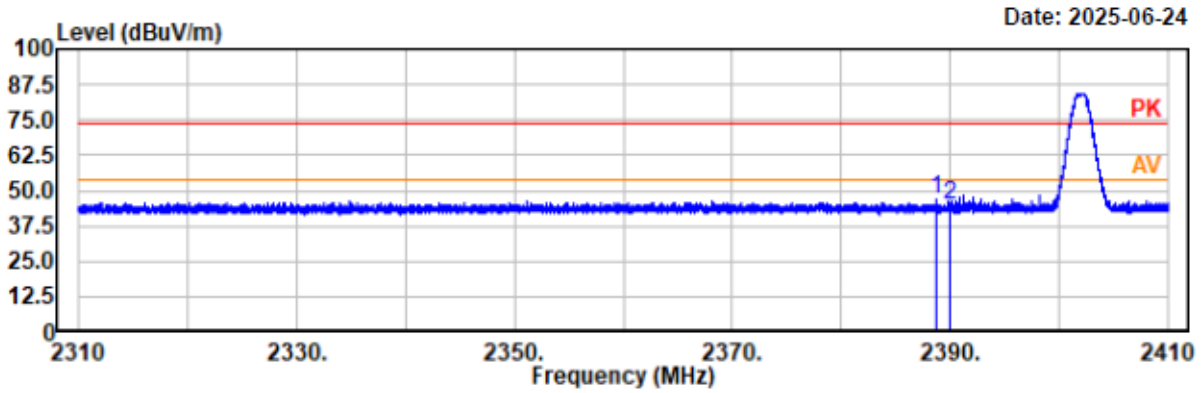


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2377.81	48.12	-1.21	46.91	74.00	27.09	horizontal	Peak
2390.00	45.47	-1.15	44.32	74.00	29.68	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

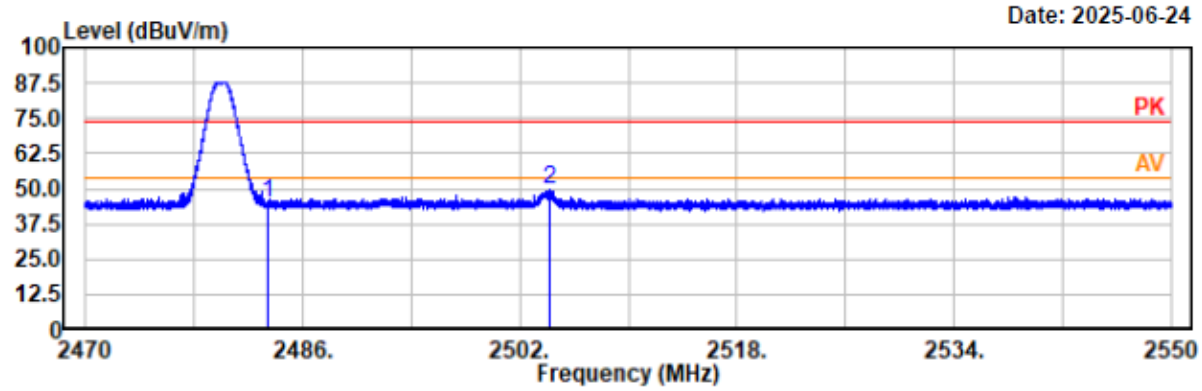


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2388.73	48.01	-1.16	46.85	74.00	27.15	vertical	Peak
2390.00	45.67	-1.15	44.52	74.00	29.48	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

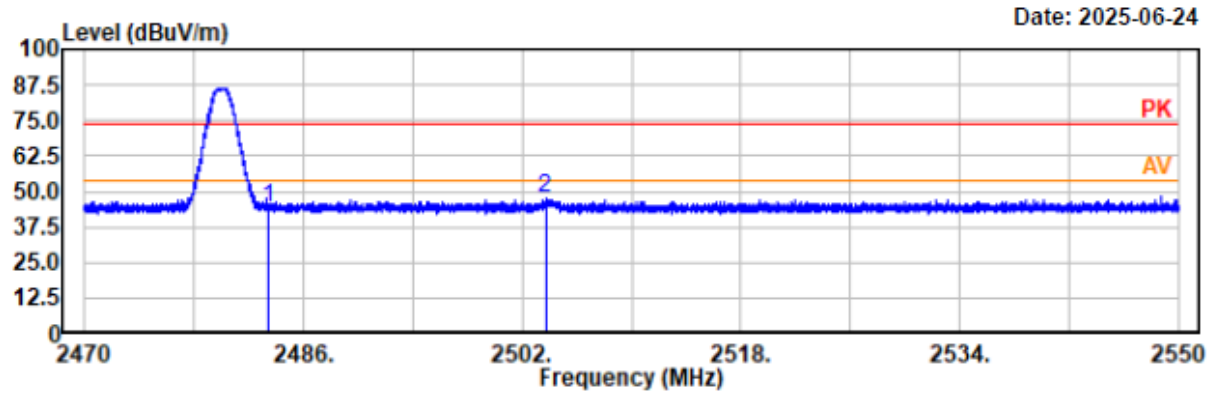


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2483.50	45.53	-0.77	44.76	74.00	29.24	horizontal	Peak
2504.22	50.04	-0.69	49.35	74.00	24.65	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

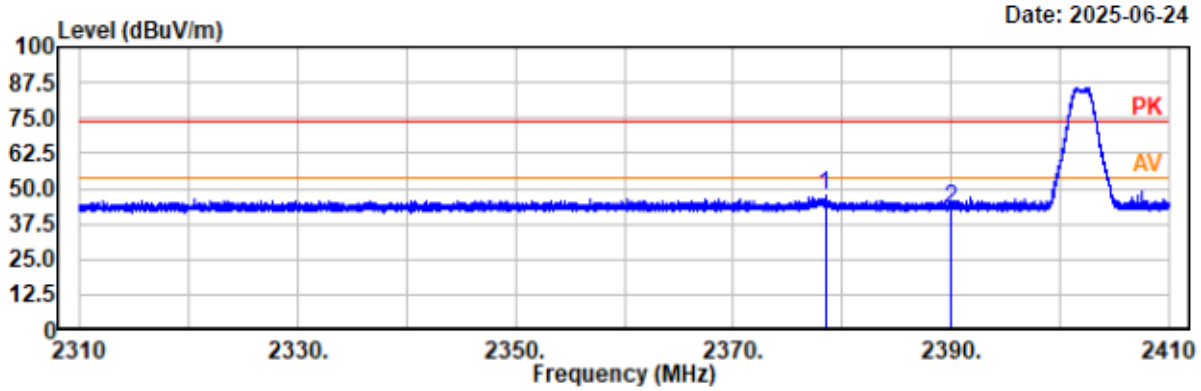


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2483.50	44.60	-0.77	43.83	74.00	30.17	vertical	Peak
2503.70	48.41	-0.69	47.72	74.00	26.28	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

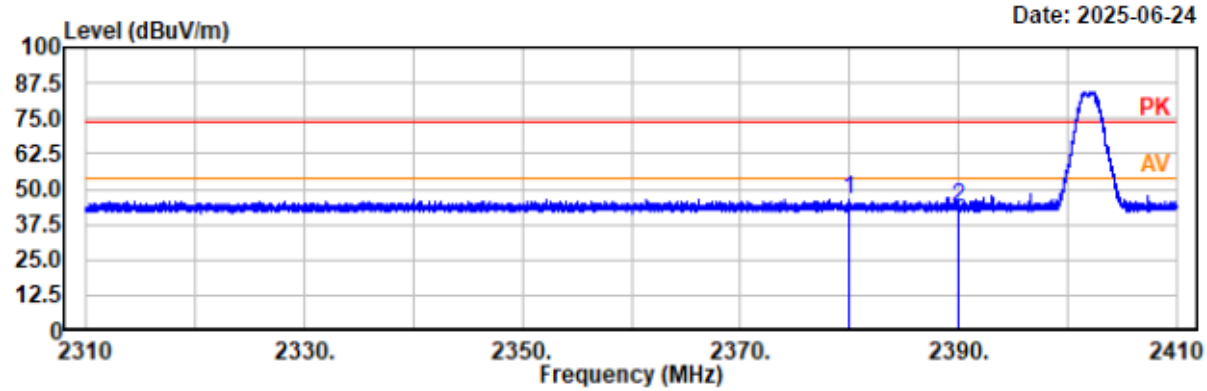


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2378.44	48.52	-1.21	47.31	74.00	26.69	horizontal	Peak
2390.00	43.77	-1.15	42.62	74.00	31.38	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

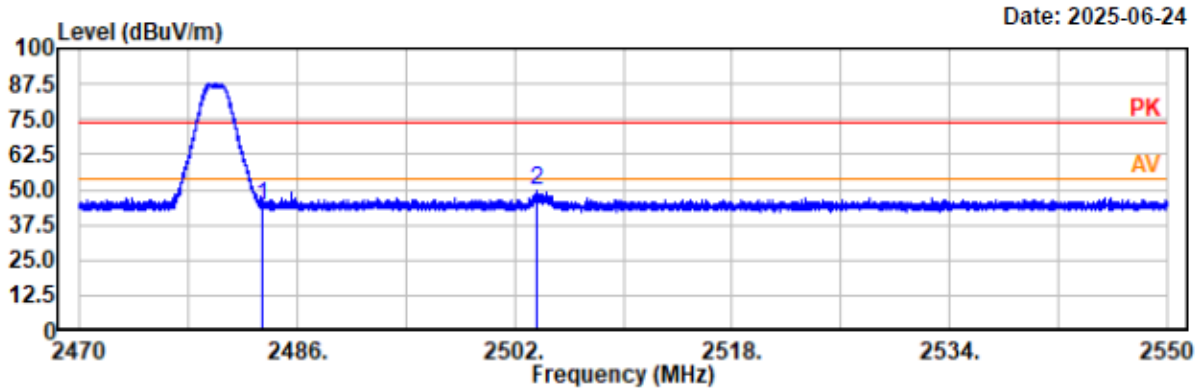


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2380.03	47.52	-1.20	46.32	74.00	27.68	vertical	Peak
2390.00	44.29	-1.15	43.14	74.00	30.86	vertical	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V

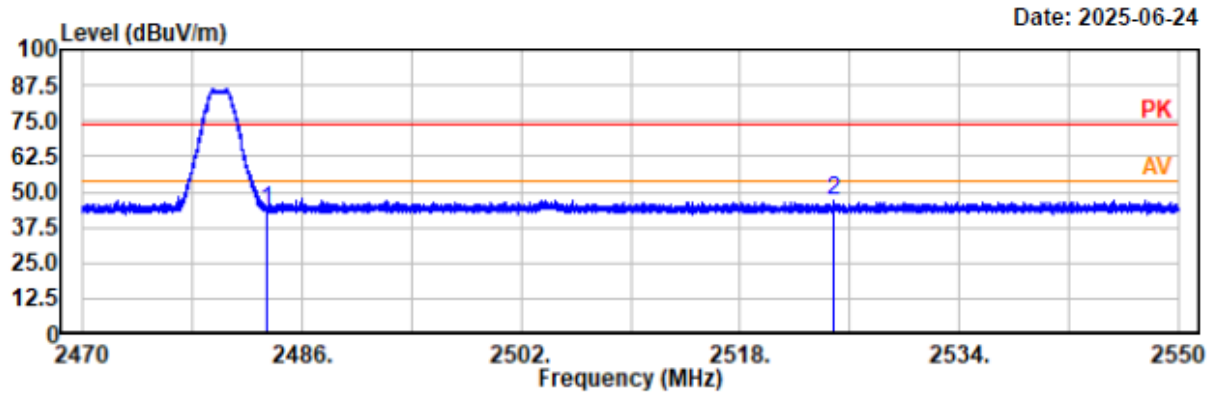


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2483.50	44.67	-0.77	43.90	74.00	30.10	horizontal	Peak
2503.67	50.26	-0.69	49.57	74.00	24.43	horizontal	Peak

Project No.: 2507U02776E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FS-BT-F5
Test distance: 3m

Temp/Humi/ATM: 23.0℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.3V



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

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2483.50	44.46	-0.77	43.69	74.00	30.31	vertical	Peak
2524.76	47.83	-0.65	47.18	74.00	26.82	vertical	Peak

FCC §15.247(a) (2) & RSS-247 ISSUE 3 Clause 5.2 a) - 6 dB EMISSION BANDWIDTH

Applicable Standard

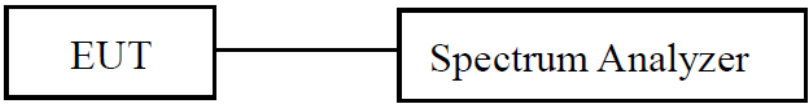
FCC§15.247 (a)(2)

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.

RSS-247 ISSUE 3 Clause 5.2 a)

The minimum 6 dB bandwidth shall be 500 kHz.

EUT Setup



Test Procedure

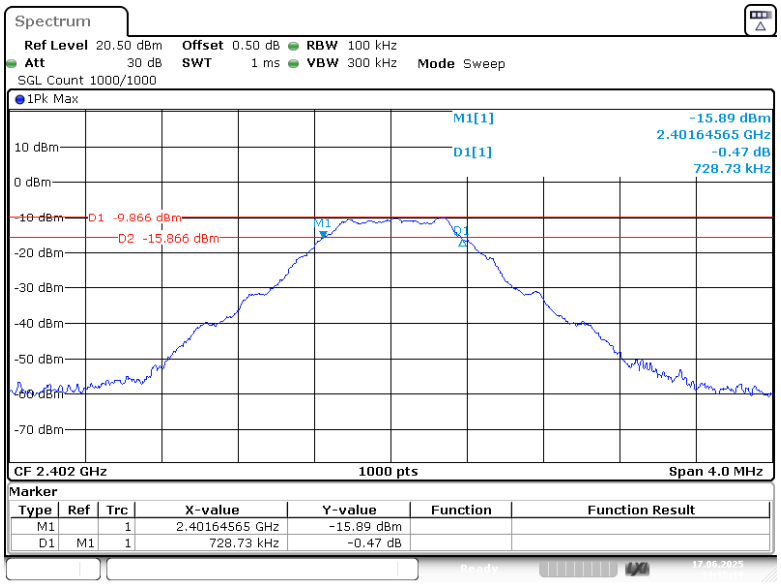
According to ANSI C63.10-2020 Section 11.8

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 ≥ [3 × 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

Test Mode:	Transmitting	**Test Engineer:**	Braylon Ma
Test Date:	2025-06-17	**Test Voltage:**	DC 3.3V
Test Result:	Compliance	**Environment:**	Temp.: 23.6℃ Humi.: 56% Atm :100.2kPa
Test Modes	**Test Frequency (MHz)**	**6 dB Bandwidth (MHz)**	**Limit (MHz)**
BLE 1Mbps	2402	0.729	≥0.5
	2440	0.725	≥0.5
	2480	0.741	≥0.5
BLE 2Mbps	2402	1.195	≥0.5
	2440	1.195	≥0.5
	2480	1.165	≥0.5

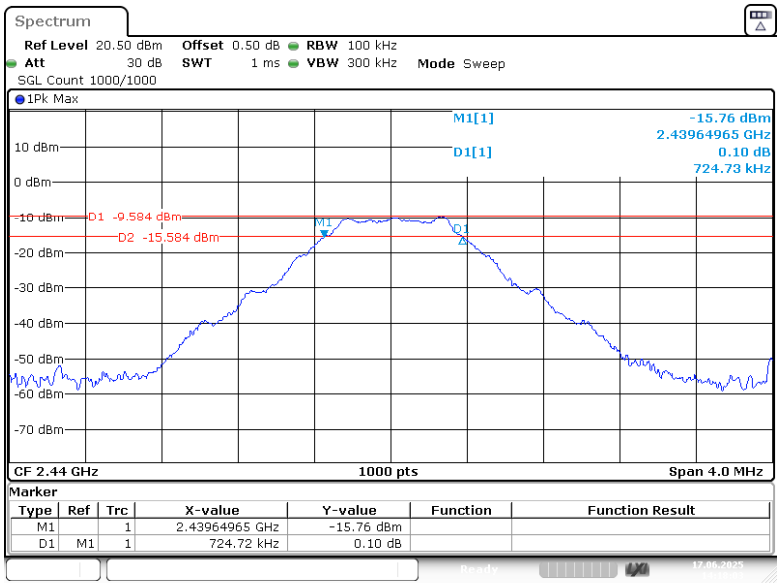
BLE 1Mbps Low Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:15:19

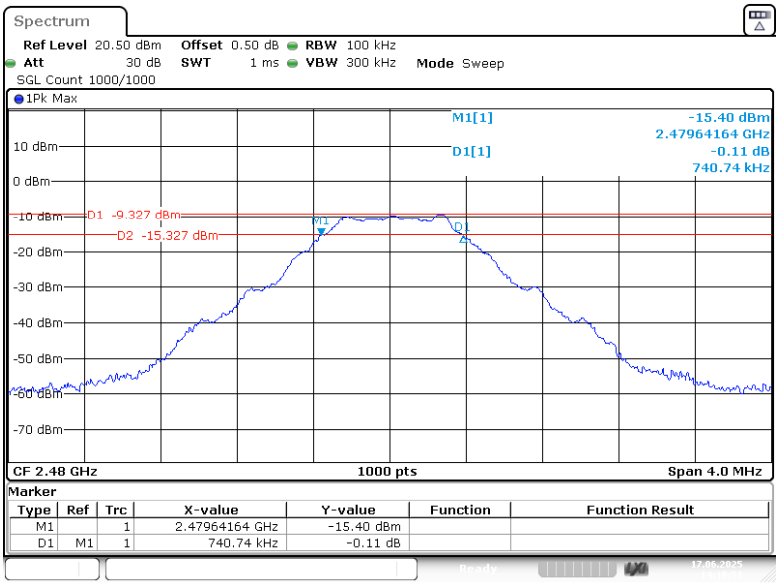
BLE 1Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:18:02

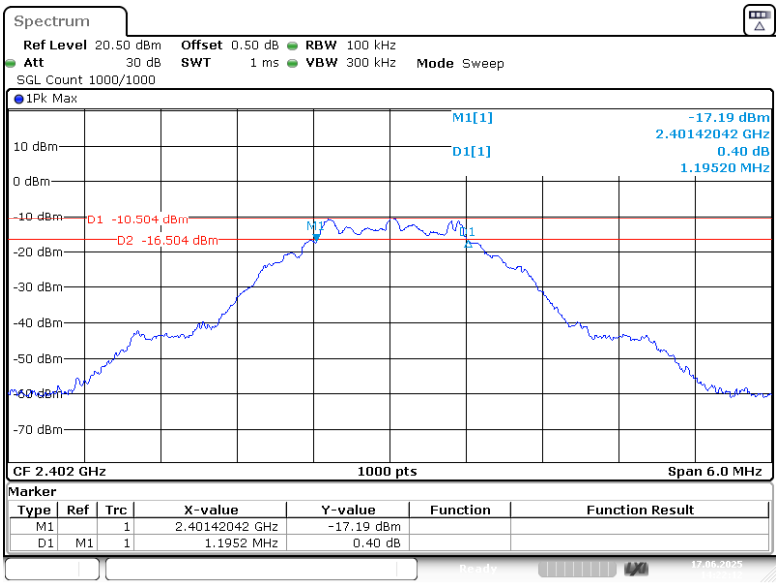
BLE 1Mbps High Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:19:51

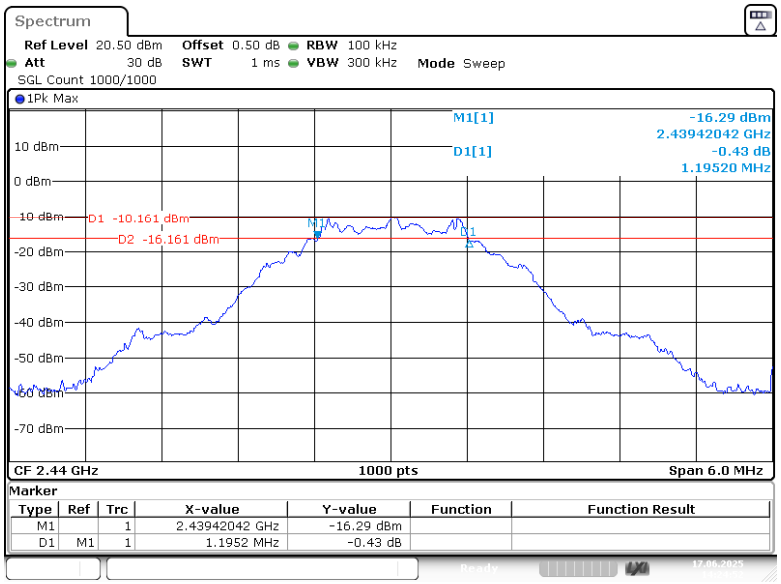
BLE 2Mbps Low Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:22:12

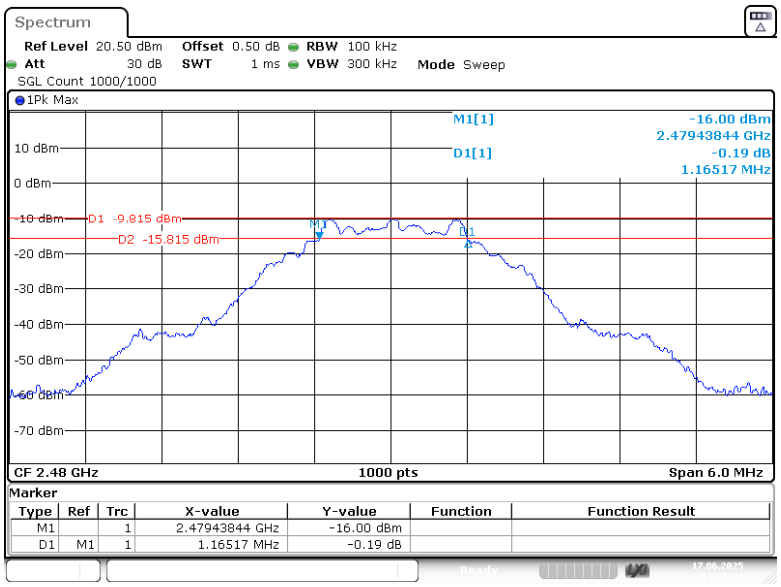
BLE 2Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:24:53

BLE 2Mbps High Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:26:54

RSS-Gen ISSUE 5 Clause 6.7 – 99% OCCUPIED BANDWIDTH

Applicable Standard

According to RSS-Gen Issue 5 Clause 6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

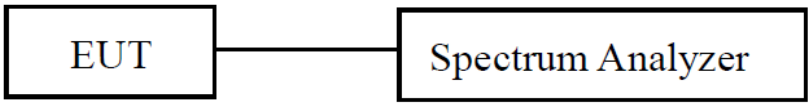
The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

EUT Setup



Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.
The following procedure shall be used for measuring 99% power bandwidth:

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

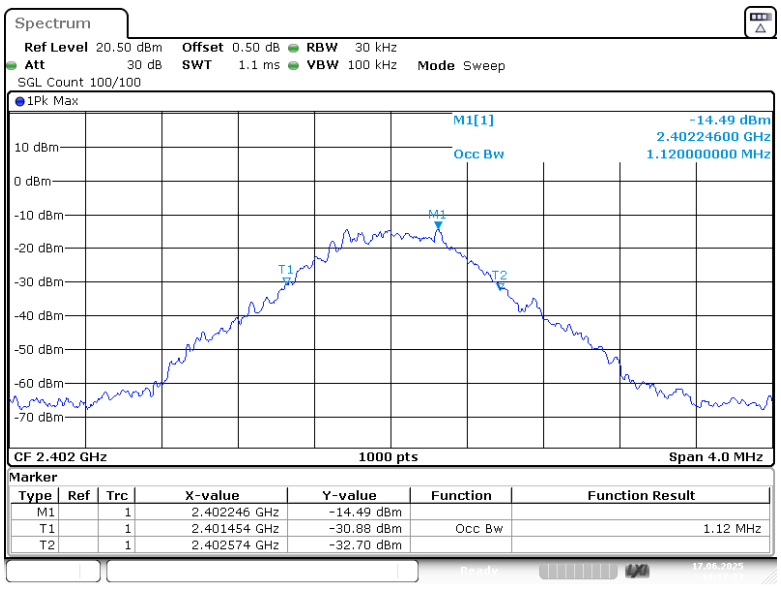
h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test Data

Test Mode:	Transmitting	**Test Engineer:**	Braylon Ma
Test Date:	2025-06-17	**Test Voltage:**	DC 3.3V
Test Result:	Compliance	**Environment:**	Temp.: 23.6℃ Humi.: 56% Atm :100.2kPa

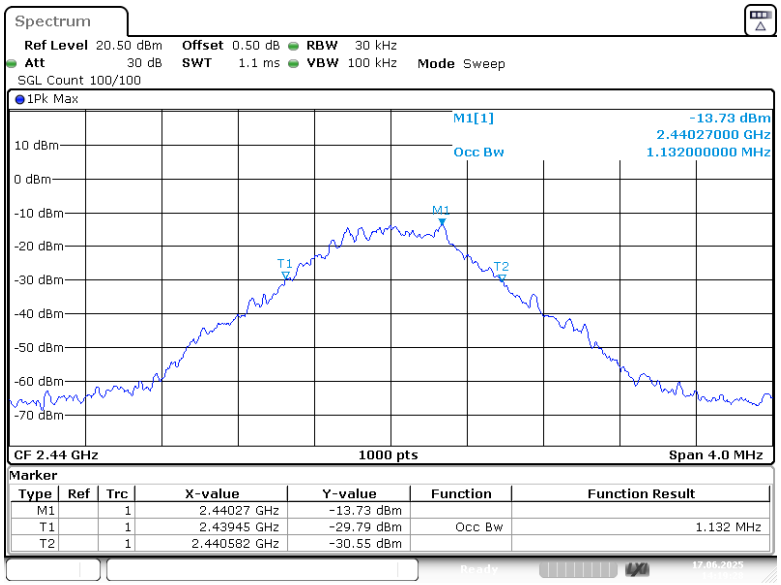
Test Modes	**Test Channel**	**Test Frequency (MHz)**	**99% Occupied Bandwidth (MHz)**
BLE 1Mbps	Lowest	2402	1.12
	Middle	2440	1.132
	Highest	2480	1.132
BLE 2Mbps	Lowest	2402	2.076
	Middle	2440	2.058
	Highest	2480	2.094

BLE 1Mbps Low Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma
Date: 17.JUN.2025 14:17:23

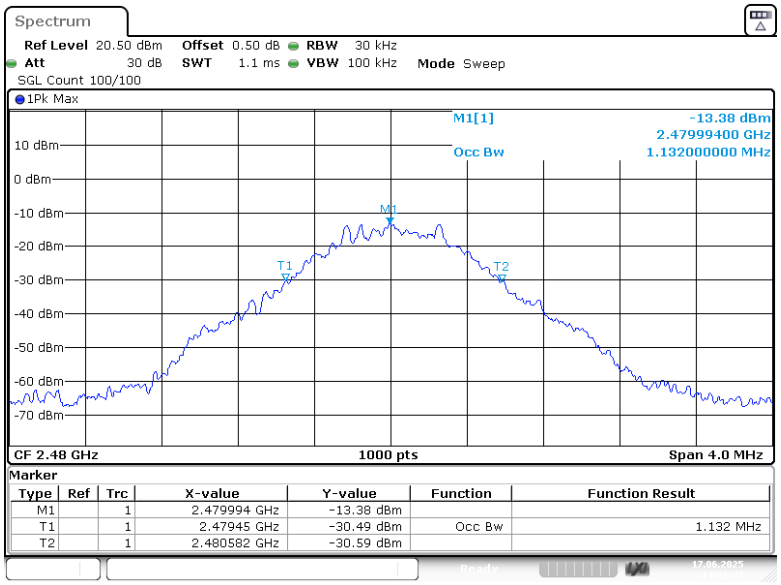
BLE 1Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:19:28

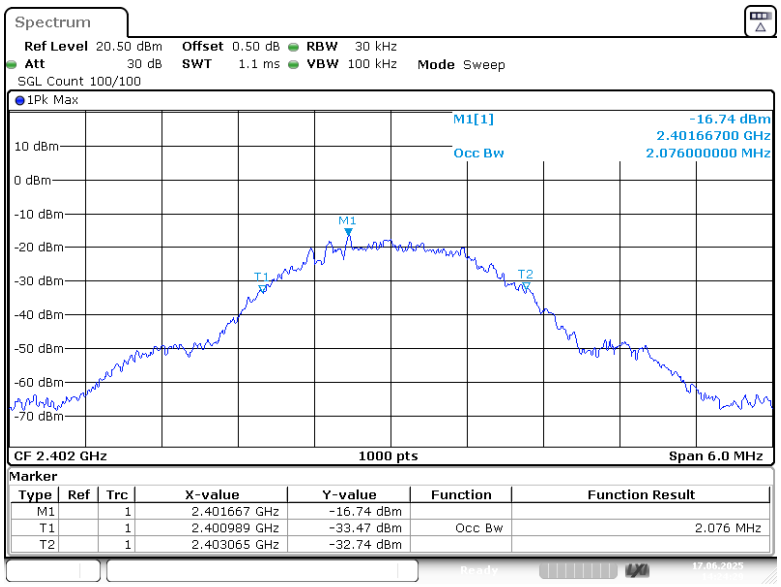
BLE 1Mbps High Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:21:46

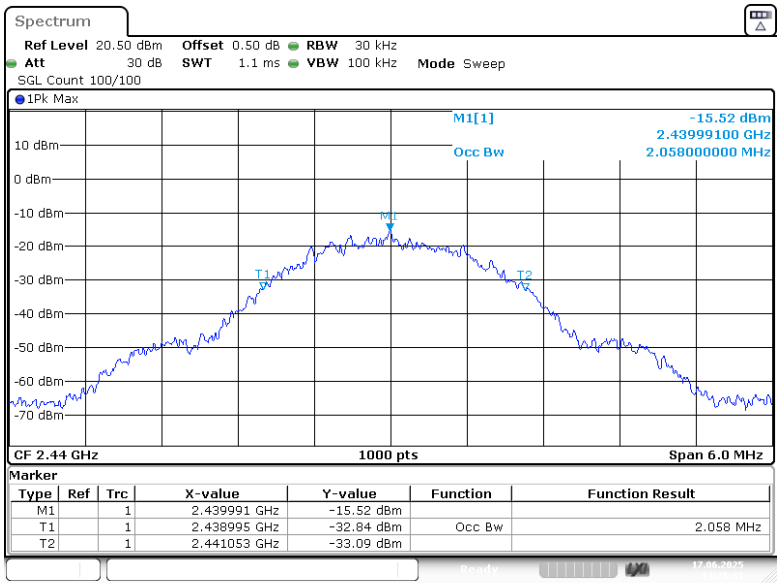
BLE 2Mbps Low Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:24:29

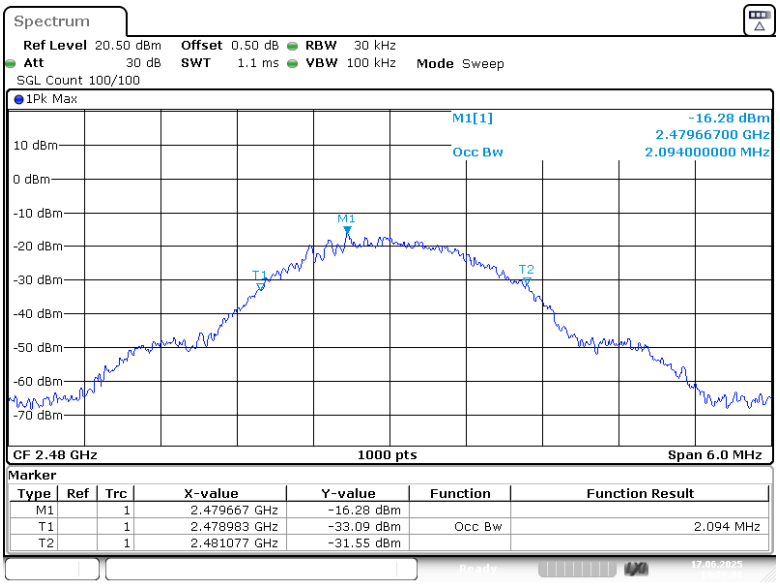
BLE 2Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:26:31

BLE 2Mbps High Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:29:06

FCC §15.247(b) (3) & RSS-247 ISSUE 3 Clause 5.4 d) – MAXIMUM CONDUCTED OUTPUT POWER

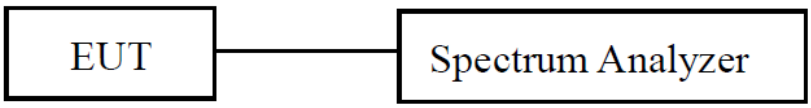
Applicable Standard

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.

According to RSS-247 Clause 5.4 d, for DTSs employing digital modulation techniques operating in the bands 902-928 MHz and2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna lements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

EUT Setup



Test Procedure

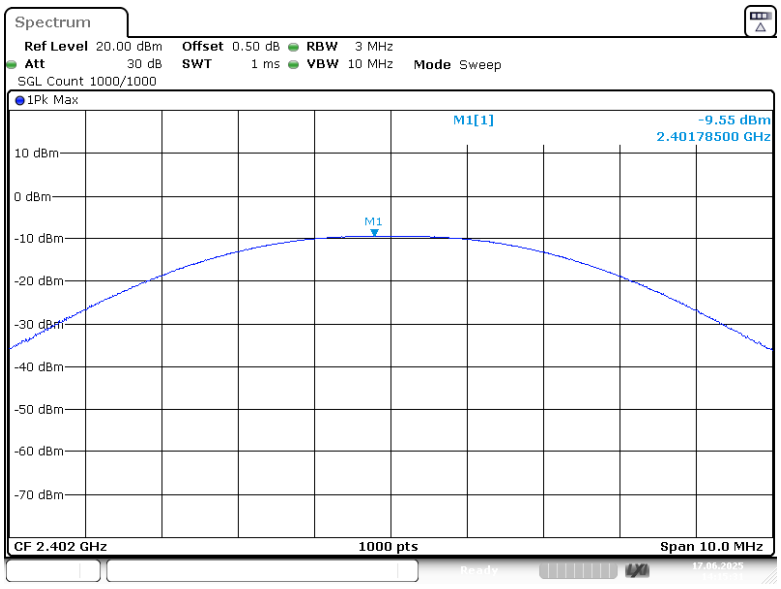
According to ANSI C63.10-2020 Section 11.9.1.1
the DTS bandwidth is available to perform the measurement:
a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = No faster than coupled (auto) time.
e) Detector = peak.
f) Trace mode = max-hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.

Test Data

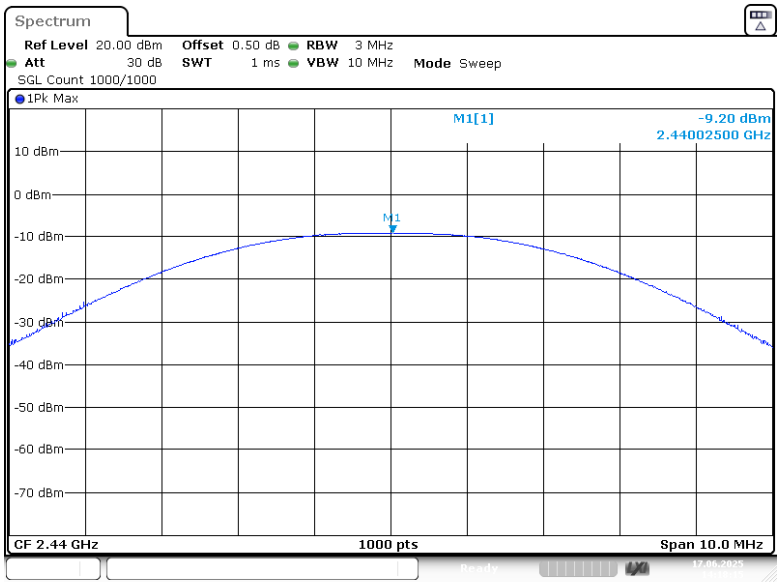
Test Mode:	Transmitting	**Test Engineer:**	Braylon Ma
Test Date:	2025-06-17	**Test Voltage:**	DC 3.3V
Test Result:	Compliance	**Environment:**	Temp.: 23.6℃ Humi.: 56% Atm :100.2kPa
Test Modes	**Test Frequency (MHz)**	**Maximum Peak Conducted Output Power(dBm)**	**Limit (dBm)**
BLE 1Mbps	2402	-9.55	≤30
	2440	-9.2	≤30
	2480	-8.96	≤30
BLE 2Mbps	2402	-9.55	≤30
	2440	-9.22	≤30
	2480	-8.91	≤30
Antenna gain(dBi):	2.83	Max.EIRP(dBm):	-6.08
EIRP Limit for RSS-247:36 dBm			

Please refer to the below plots:

BLE 1Mbps Lowest Channel



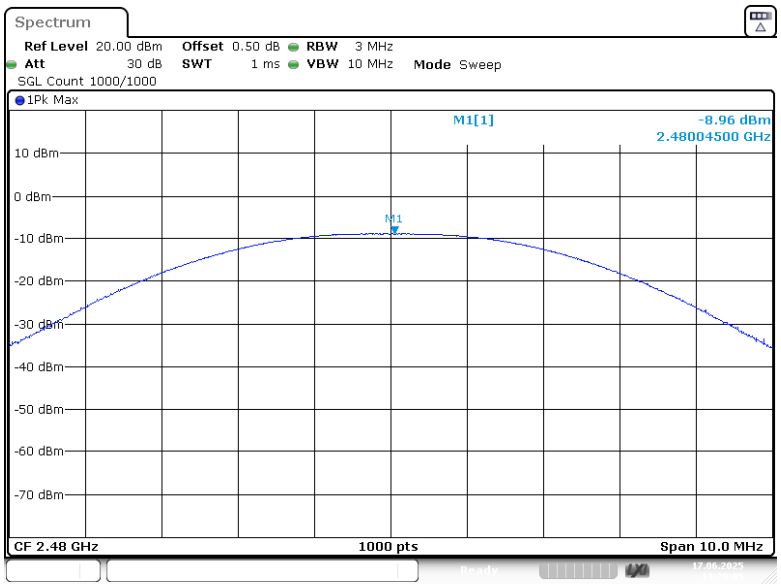
BLE 1Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:18:15

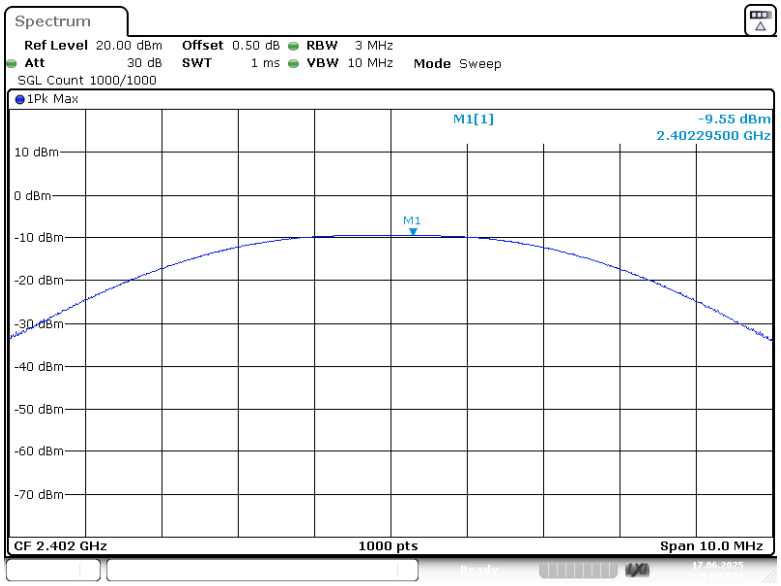
BLE 1Mbps Highest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

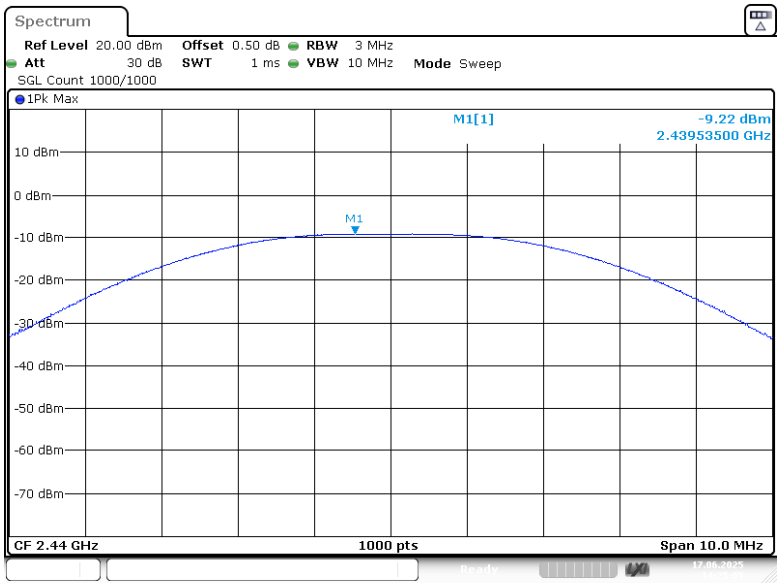
Date: 17.JUN.2025 14:20:05

BLE 2Mbps Lowest Channel



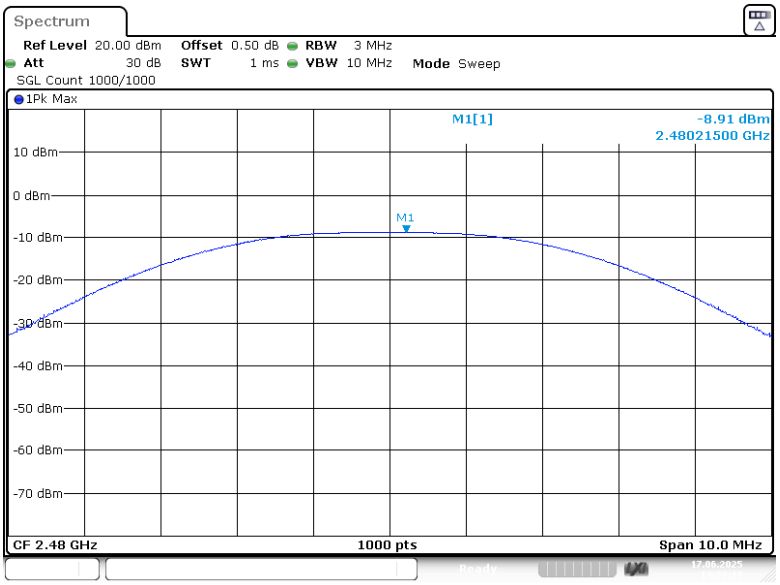
ProjectNo.:2507U02776E-RF Tester:Braylon Ma
Date: 17.JUN.2025 14:22:24

BLE 2Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma
Date: 17.JUN.2025 14:25:05

BLE 2Mbps Highest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:27:12

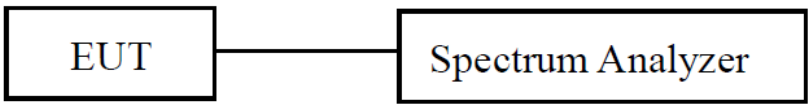
FCC §15.247(d) & RSS-247 ISSUE 3 Clause 5.5– 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

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)).

RSS-247 Issue 3 Clause 5.5
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

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 ≥ [3 × 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.

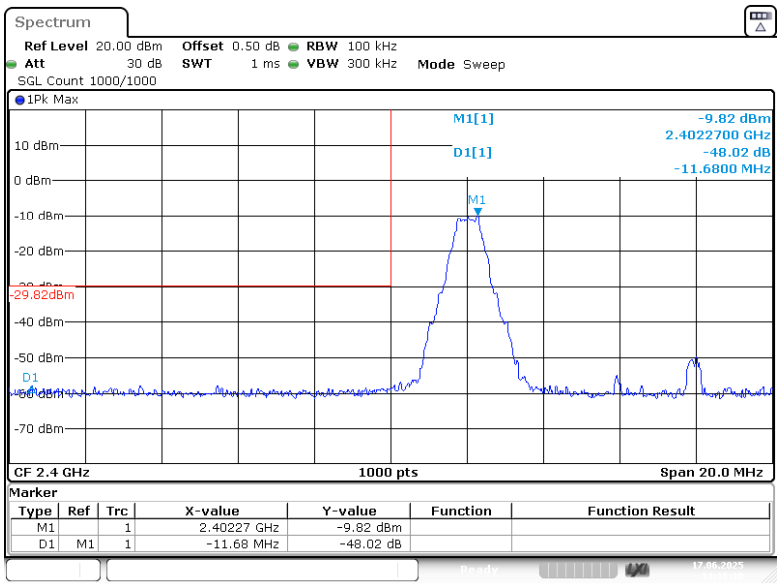
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-06-17	Test Voltage:	DC 3.3V
Test Result:	Compliance	Environment:	Temp.: 23.6℃ Humi.: 56% Atm :100.2kPa

Please refer to the below plots:

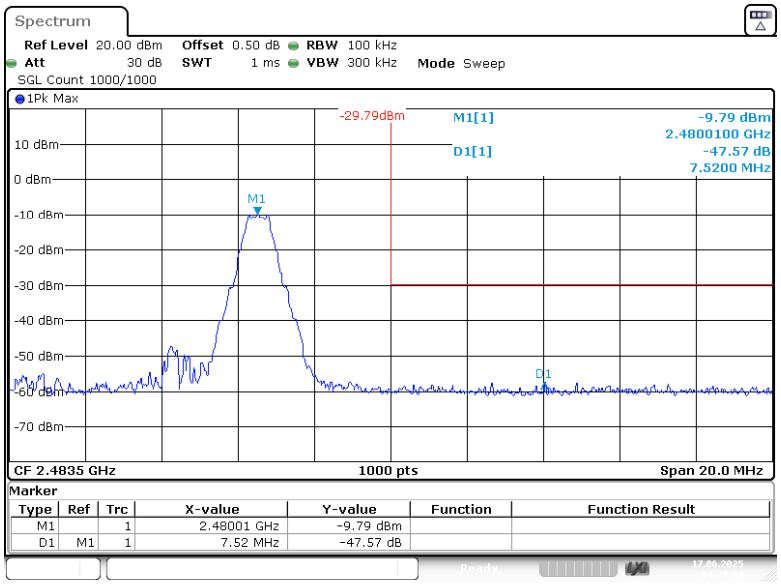
BLE 1Mbps Lowest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:16:10

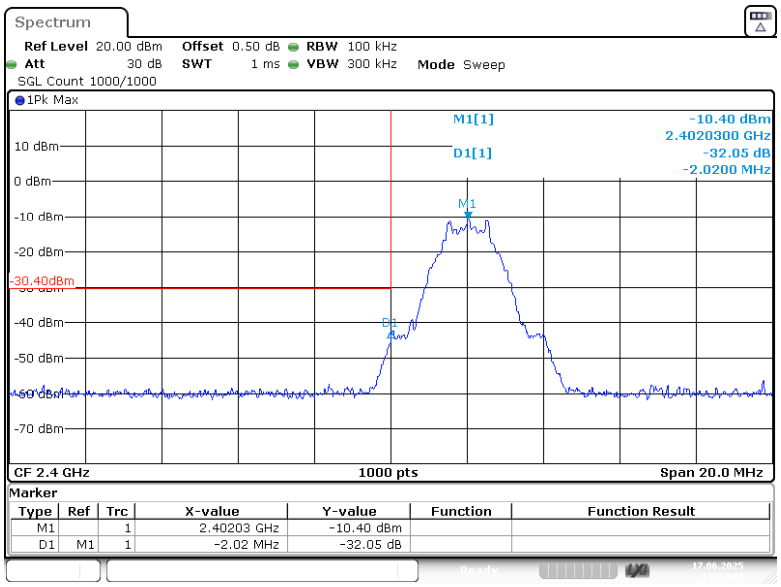
BLE 1Mbps Highest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:20:34

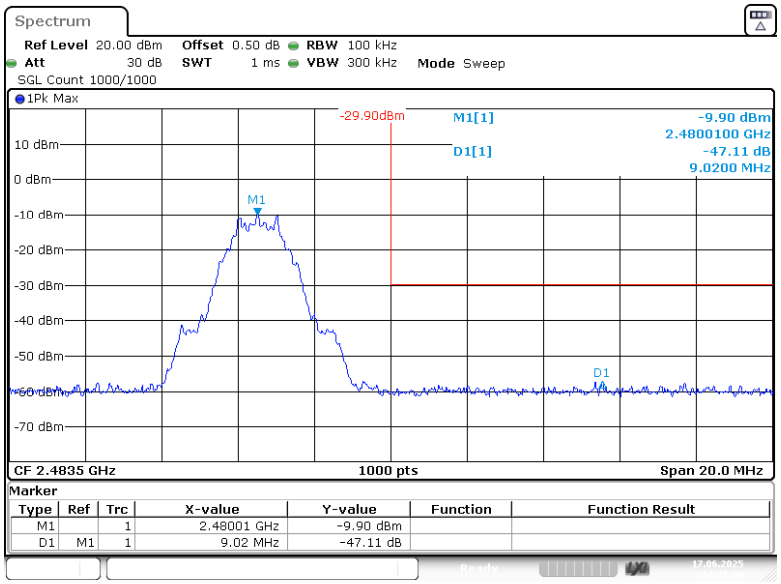
BLE 2Mbps Lowest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:23:03

BLE 2Mbps Highest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:27:39

FCC §15.247(e) & RSS-247 ISSUE 3 CLAUSE5.2 b) - POWER SPECTRAL DENSITY

Applicable Standard

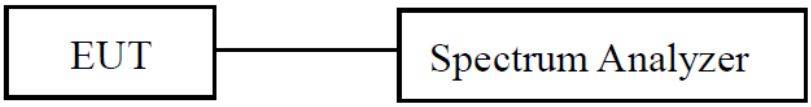
FCC §15.247 (e)

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.

RSS-247 Clause5.2 b

The transmitter power spectral density conducted from the transmitter 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 section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

EUT Setup



Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

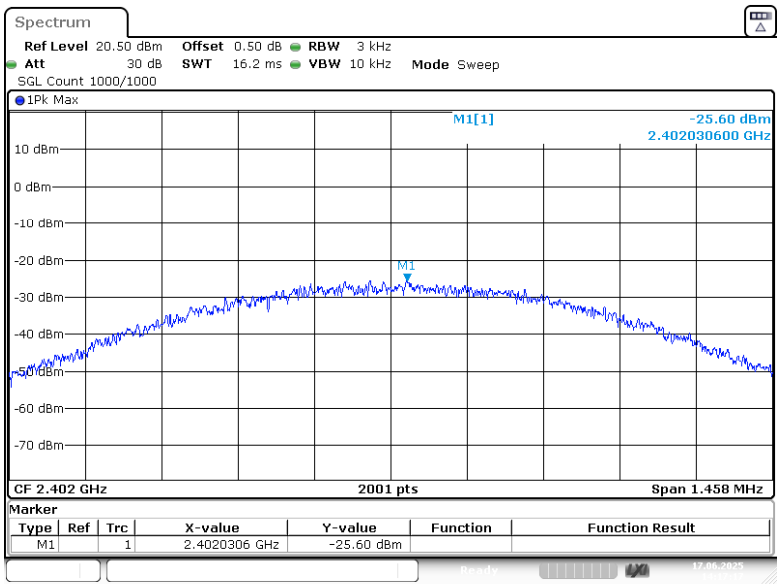
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span >1.5 times the DTS bandwidth.
c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ [3 × RBW].
e) Detector = peak.
f) Sweep time = No faster than coupled (auto) time.
g) Trace mode = max-hold.
h) Allow trace to fully 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:	2025-06-17	Test Voltage:	DC 3.3V
Test Result:	Compliance	Environment:	Temp.: 23.6℃ Humi.: 56% Atm :100.2kPa

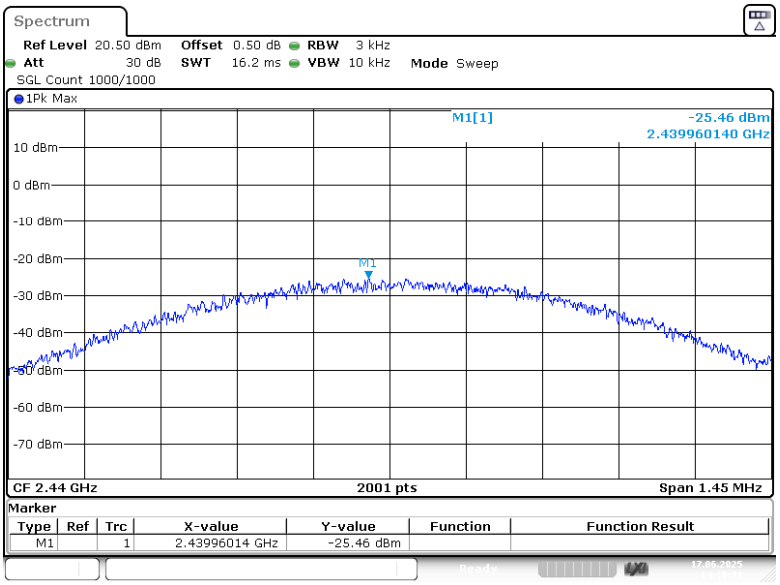
Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	2402	-25.6	≤8.00
	2440	-25.46	≤8.00
	2480	-24.99	≤8.00
BLE 2Mbps	2402	-28.66	≤8.00
	2440	-28.24	≤8.00
	2480	-28.08	≤8.00

BLE 1Mbps Lowest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma
Date: 17.JUN.2025 14:17:16

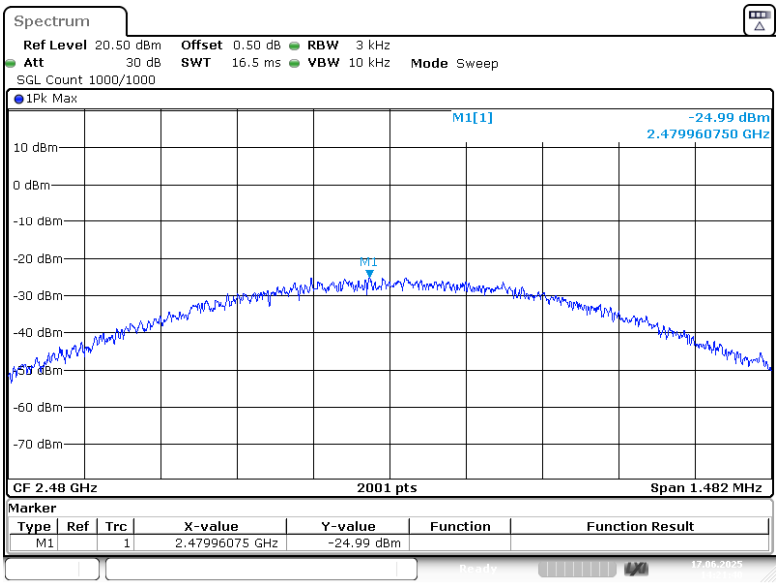
BLE 1Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:19:21

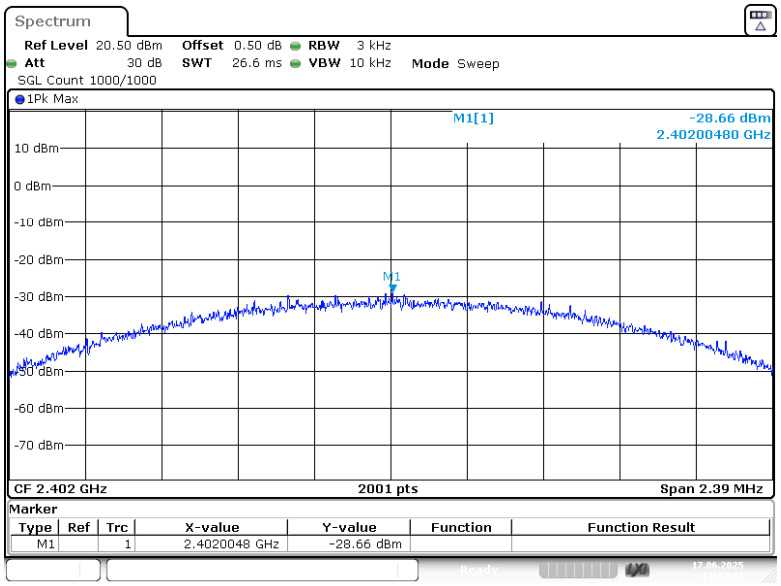
BLE 1Mbps Highest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:21:40

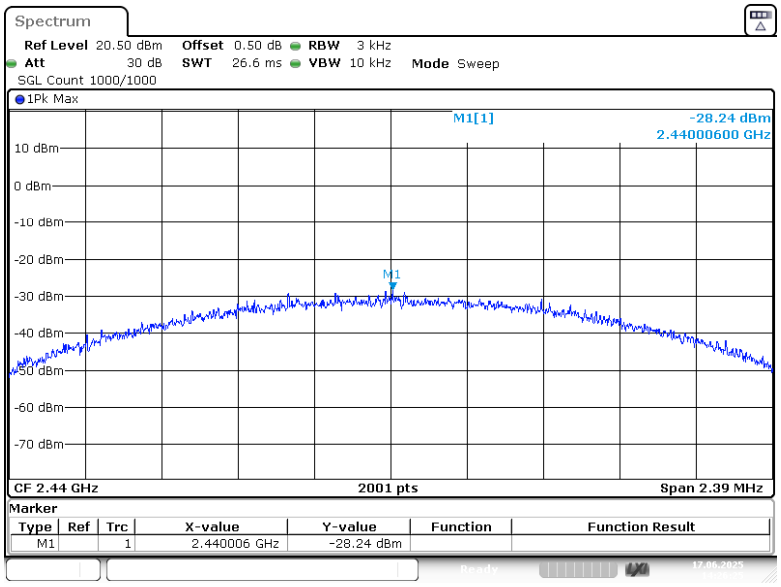
BLE 2Mbps Lowest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:24:23

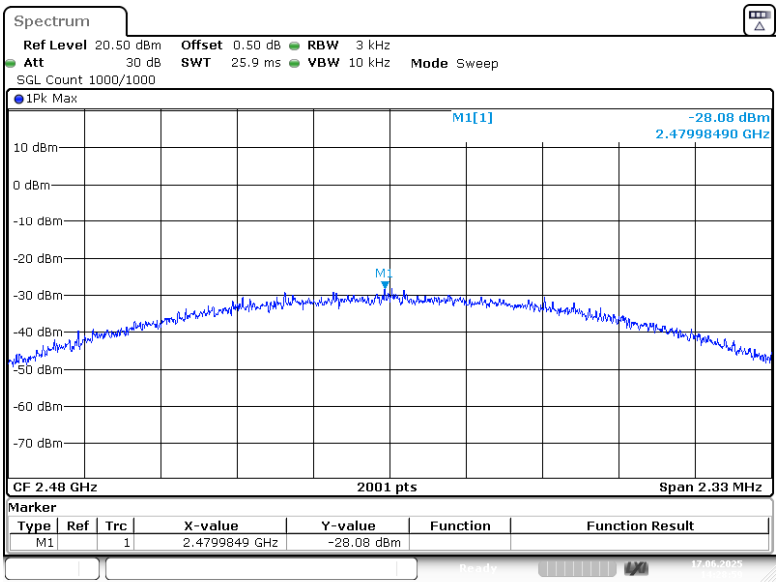
BLE 2Mbps Middle Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:26:25

BLE 2Mbps Highest Channel



ProjectNo.:2507U02776E-RF Tester:Braylon Ma

Date: 17.JUN.2025 14:28:59

EUT PHOTOGRAPHS

Please refer to the attachment 2507U02776E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507U02776E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507U02776E-RF-TSP 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 *******