



FCC PART 15.247

TEST REPORT

For

Strength Master Fitness Tech Co. Ltd

No. 398, Sec. 1, Yaofeng Rd. Puxin Township, Changhua County, 51344 Taiwan

FCC ID: 2AB90-C3G

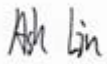
Report Type: Original Report	Product Name: Ampera Office Bike
Report Number:	2507S37254E-RF-01
Report Date:	2025-09-30
Reviewed By:	Ash Lin 
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507S37254E-RF-01	R1V1	2025-09-30	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Strength Master Fitness Tech Co. Ltd
Product Name:	Ampera Office Bike
Tested Model:	C3G
Multiple Model(s):	N/A
Power Supply:	Motion power generation or DC 3.6V from battery(for Bluetooth module only)
Maximum Peak Conducted Output Power:	-1.53 dBm
Frequency Range:	2402~2480MHz
Modulation Technique:	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	3.26 dBi
EUT Received Status:	Good
<i>Note:</i> 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: 31ZP-4(RF conducted)/ 31ZP-2(Radiated Spurious Emission) Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2025-04-25.	

Objective

This report is prepared on behalf of *Strength Master Fitness Tech Co. Ltd* 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, 15.209 and 15.247 rules.

Test Methodology

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

Test Facility

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

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

Measurement Uncertainty

Item		U_{lab}
Conducted Emission	150kHz-30MHz	2.45 dB
Radiated Spurious Emission	9kHz-150 kHz	2.82dB
	150 kHz -30MHz	2.74dB
	30MHz~200MHz	3.47dB
	200MHz~1GHz	4.86dB
	1GHz~6GHz	4.88 dB
	6GHz-18GHz	4.95 dB
	18GHz~40GHz	4.45 dB
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:	Test mode 1: Transmitting
Test voltage:	AC 120V/60Hz or DC 3.6V from battery
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.

Note: This product uses motion power generation, with a generator output of AC 0V-220V. To meet testing requirements, an additional power supply of AC 120V/60Hz used for testing, with USB-C at maximum output.

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: EspRFTestTool_v4.6

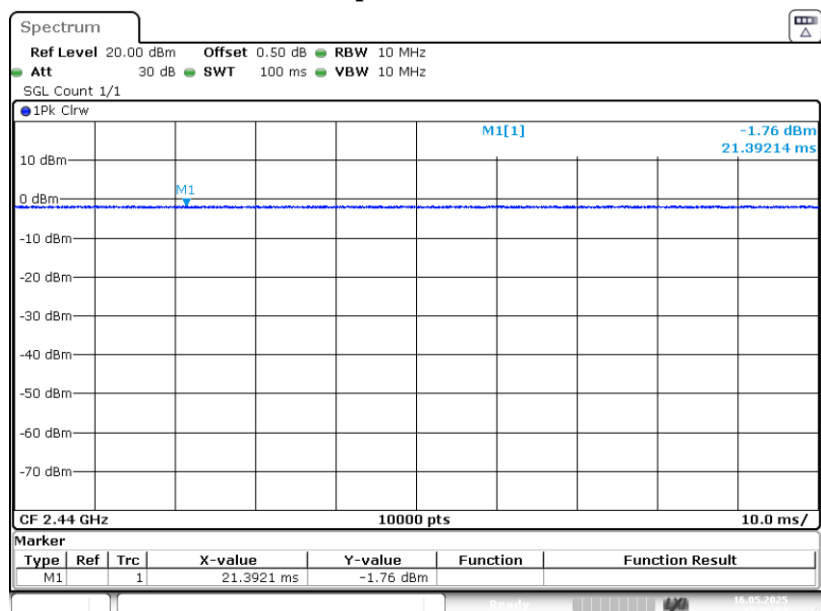
Mode	Power level		
	Low channel	Middle channel	High channel
BLE 1Mbps	8	8	8
BLE 2Mbps	8	8	8

Duty Cycle

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-05-16	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C Humi.: 56% Atm :100.3kPa

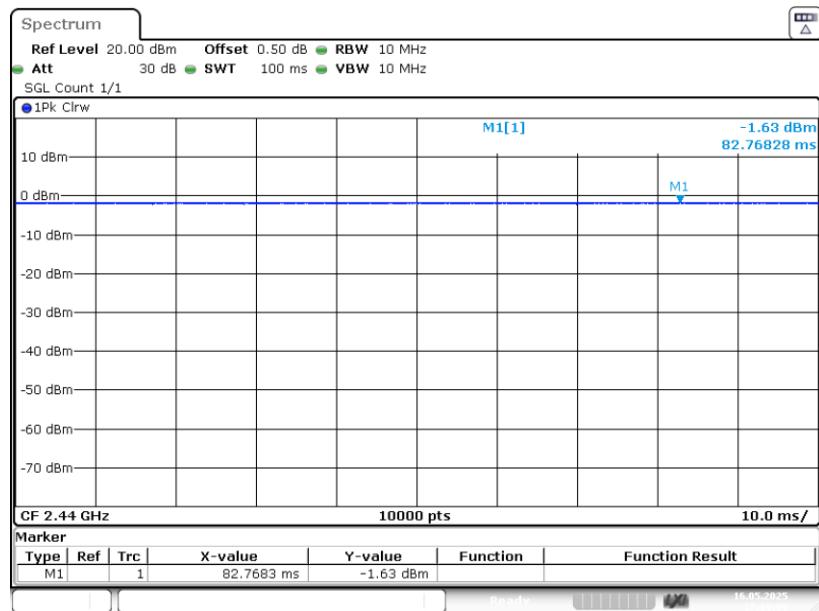
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
BLE 1Mbps	2440	100	100	100.00	/	0.01
BLE 2Mbps	2440	100	100	100.00	/	0.01

BLE 1Mbps_Middle Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
Date: 16.MAY.2025 17:05:54

BLE 2Mbps_Middle Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma

Date: 16.MAY.2025 17:19:09

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Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Debug board	Unknown	Unknown
Lenovo	Laptop	T480	PF1P5K4F
Apple	Phone	MLDU3CH/A	KY4D4MP4YC

External I/O Cable

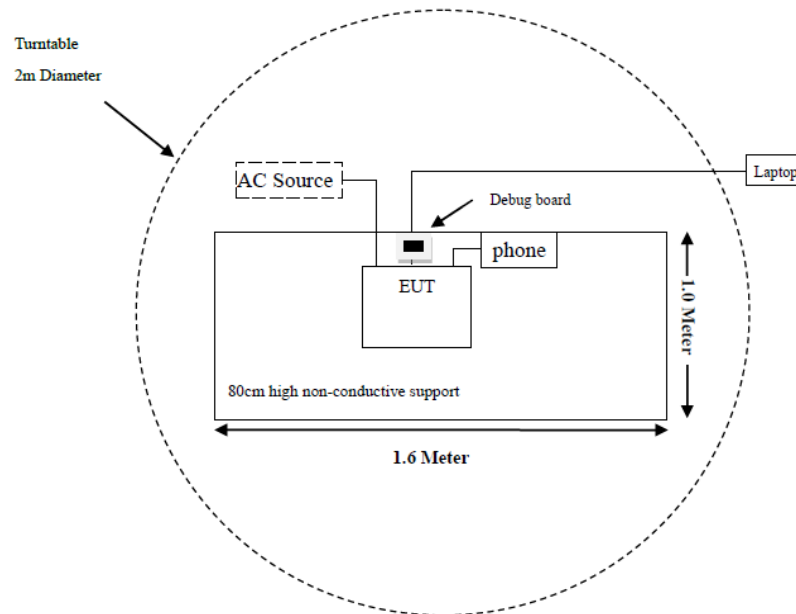
Cable Description	Length (m)	From Port	To
Dupont cable	0.2	EUT	Debug board
USB Cable	1	EUT	Phone
USB Cable	10	Debug board	Laptop
RF Cable	0.1	EUT antenna port	Spectrum Analyzer

Block Diagram of Test Setup

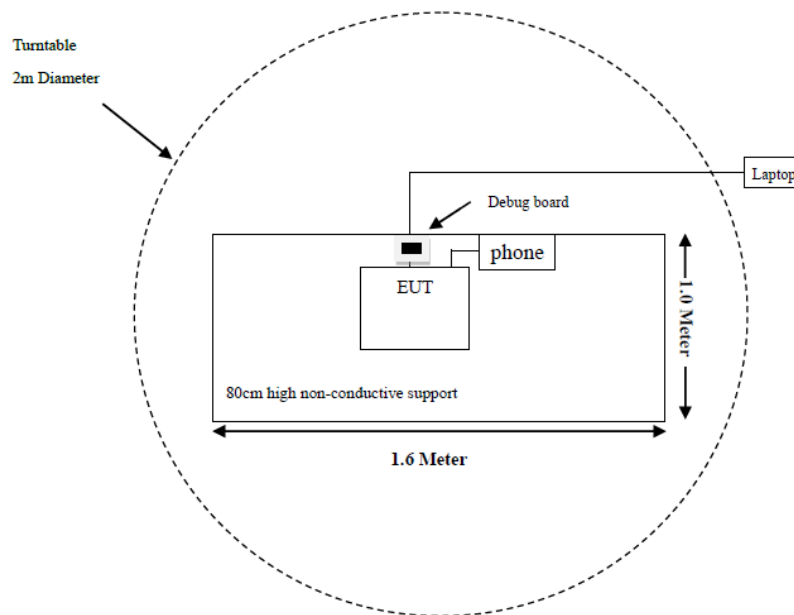
Radiated Emission:

Below 1GHz

Powered by AC Source

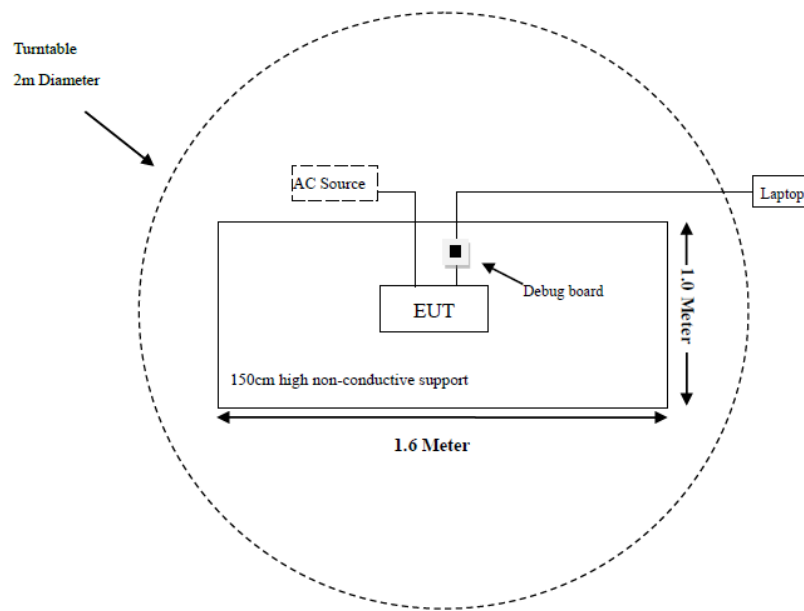


Powered by Battery



Note: Antenna is 0.8m above ground.

Above 1GHz:



Note: Antenna is 1.5m above ground.

SUMMARY OF TEST RESULTS

Standard(s)/Rule(s)	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliance
FCC §15.207 (a)	AC Line Conducted Emissions	Not Applicable (Note 1)
FCC §15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
FCC §15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
FCC §15.247(b)(3)	Maximum Conducted Output Power	Compliance
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
FCC §15.247(e)	Power Spectral Density	Compliance

Note:

1. The EUT is Motion power generation or DC 3.6V from battery.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
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	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
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
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 FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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

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

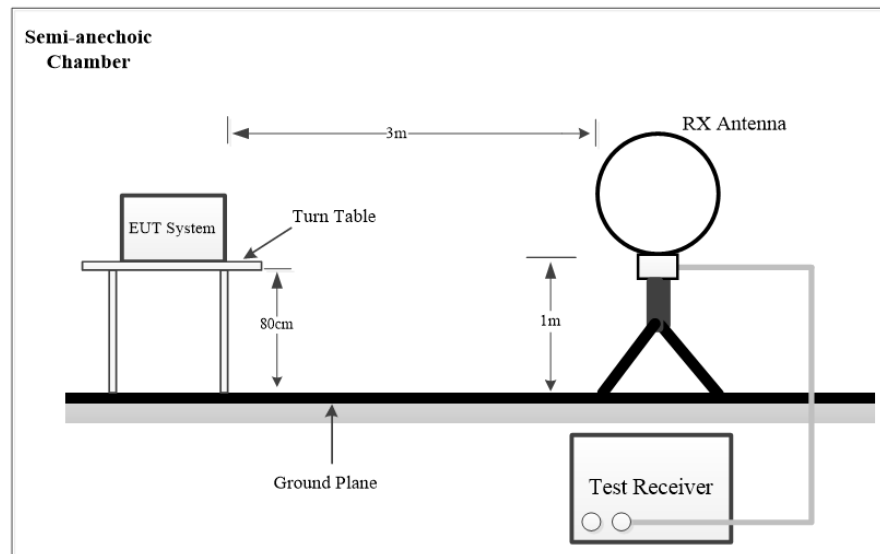
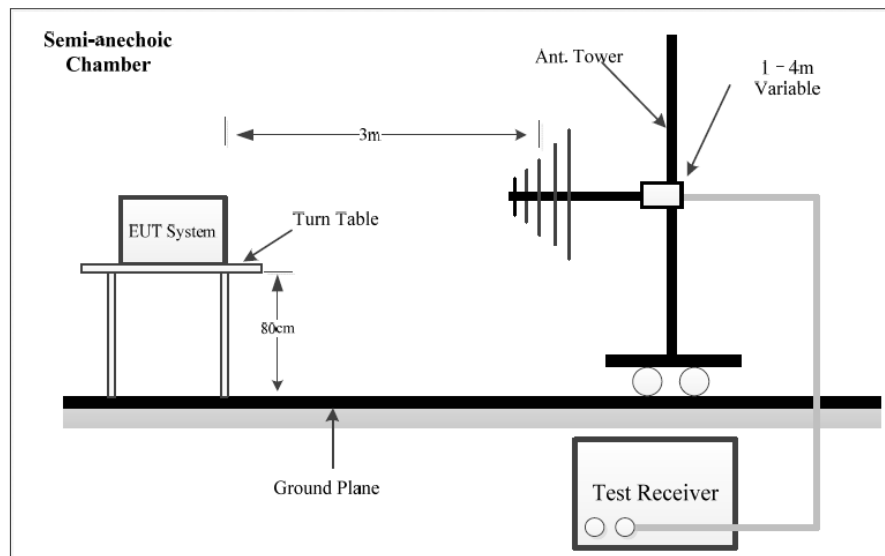
Antenna Connector Construction

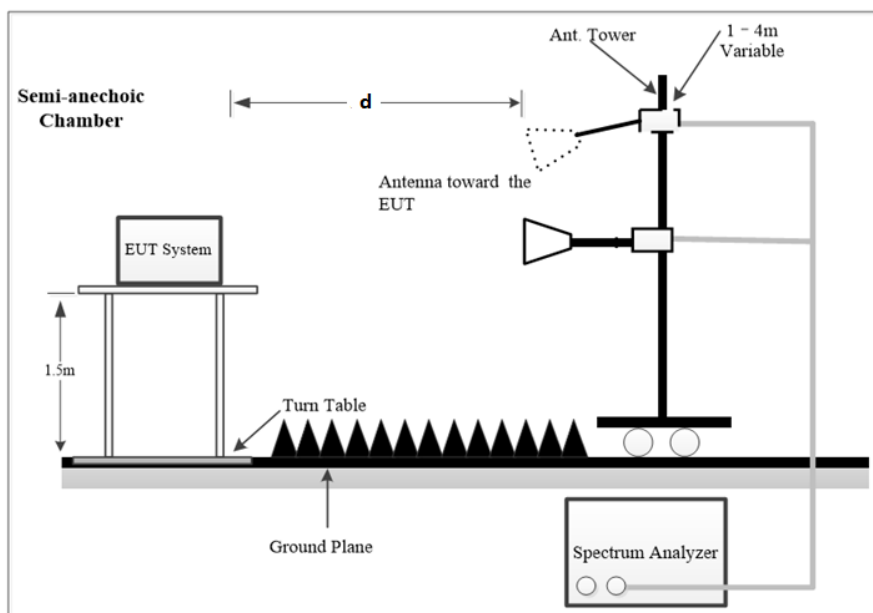
The EUT has one PCB antenna arrangement for BLE, which was attached permanently and the antenna gain is 3.26 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance

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

FCC §15.247 (d); §15.209; §15.205;

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

Above 1GHz:

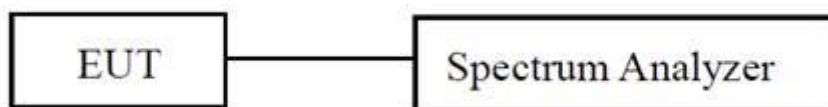
The radiated emission tests using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 limits.

NOTE: d is testing distance;

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

For Radiated Emission test (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 dB

Antenna-port conducted emission:

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

TDF = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

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 emission 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 (dB μ V/m) = Reading (dB μ V) + 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 (dB μ V/m) –Result (dB μ V/m)

Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	22.2-22.5°C	22.5°C
Relative Humidity:	55%	55%
ATM Pressure:	99.9-100.1kPa	100.1kPa
Test Date:	2025-09-01~2025-09-24	2025-09-01
Test Engineer:	Wlif Wu	Wlif Wu

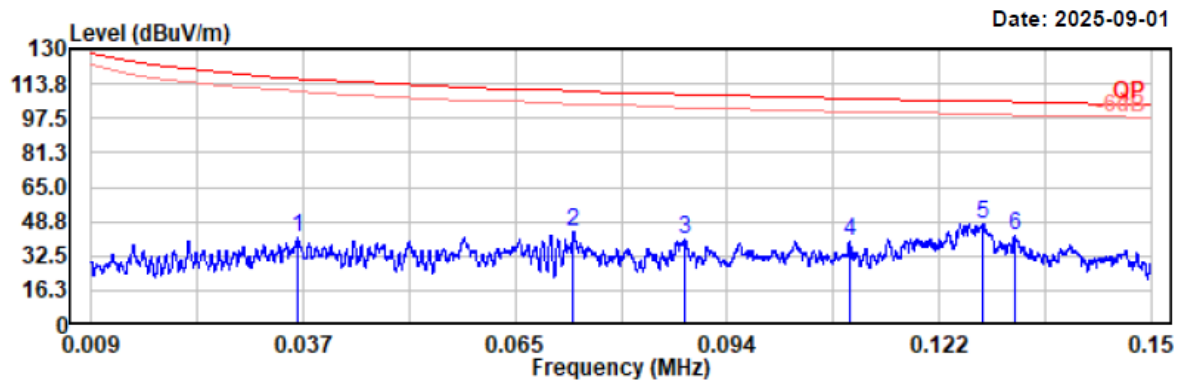
1) 9 kHz~30MHz

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

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

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

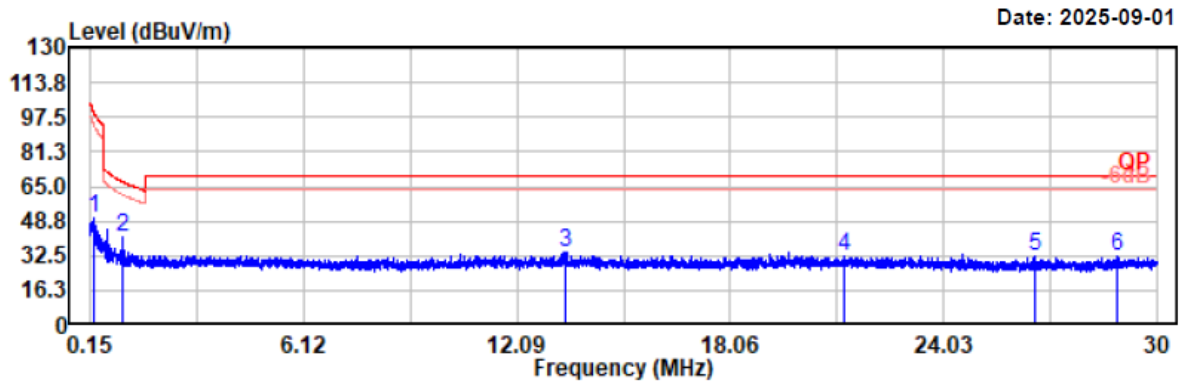


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.036	20.91	19.91	40.82	116.39	75.57	Peak
0.073	24.17	19.78	43.95	110.32	66.37	Peak
0.088	20.38	19.79	40.17	108.72	68.55	Peak
0.110	19.28	19.73	39.01	106.79	67.78	Peak
0.128	27.86	19.73	47.59	105.49	57.90	Peak
0.132	22.03	19.73	41.76	105.21	63.45	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

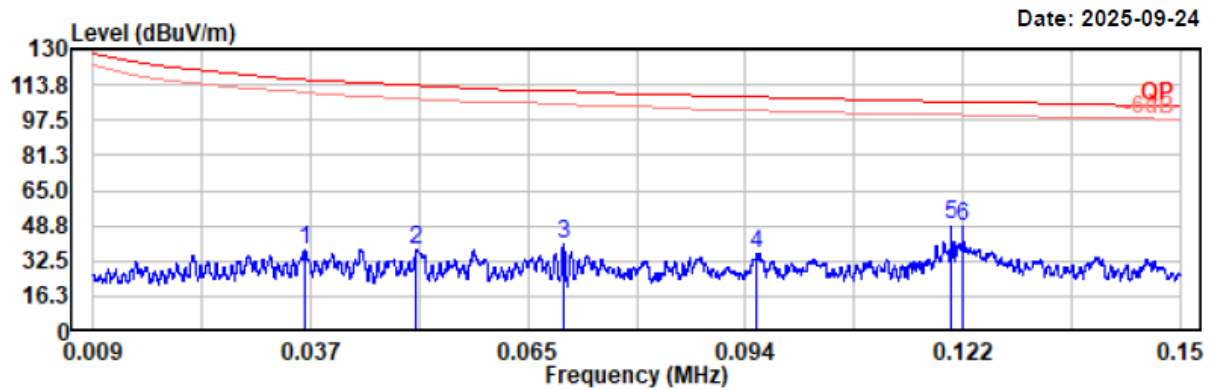


Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.243	30.65	19.72	50.37	99.91	49.54	Peak
1.066	21.73	19.73	41.46	67.05	25.59	Peak
13.421	14.75	19.74	34.49	69.54	35.05	Peak
21.251	11.98	20.13	32.11	69.54	37.43	Peak
26.609	12.29	20.14	32.43	69.54	37.11	Peak
28.896	11.89	20.02	31.91	69.54	37.63	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.2°C /55%/99.9kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

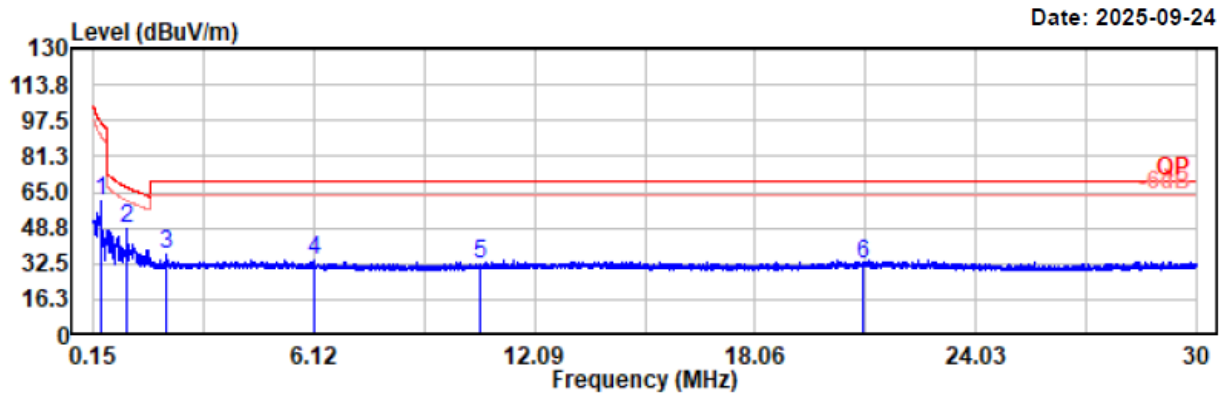


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.036	17.47	19.91	37.38	116.40	79.02	Peak
0.051	17.80	19.91	37.71	113.47	75.76	Peak
0.070	20.22	19.81	40.03	110.71	70.68	Peak
0.095	15.99	19.77	35.76	108.04	72.28	Peak
0.120	29.30	19.73	49.03	106.00	56.97	Peak
0.122	28.63	19.73	48.36	105.89	57.53	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.2°C /55%/99.9kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



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

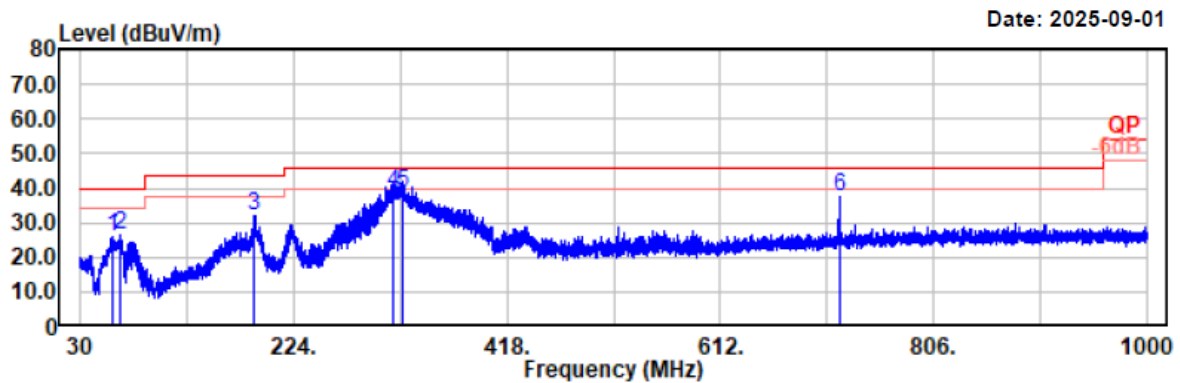
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.362	41.52	19.74	61.26	96.43	35.17	Peak
1.066	28.41	19.73	48.14	67.05	18.91	Peak
2.138	16.89	19.60	36.49	69.54	33.05	Peak
6.141	13.92	19.80	33.72	69.54	35.82	Peak
10.639	12.98	19.71	32.69	69.54	36.85	Peak
20.985	12.33	20.12	32.45	69.54	37.09	Peak

2) 30MHz -1GHz

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

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

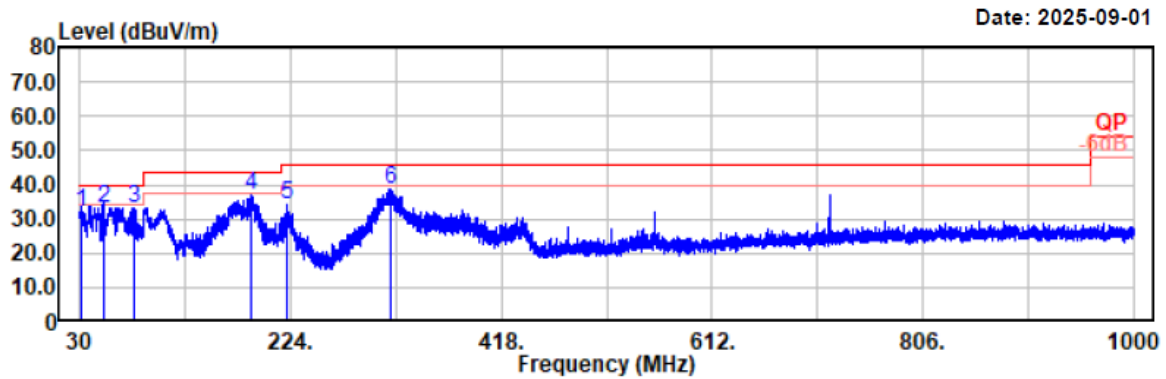


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
59.88	43.57	-17.48	26.09	40.00	13.91	Horizontal	Peak
66.28	43.82	-17.27	26.55	40.00	13.45	Horizontal	Peak
188.40	44.33	-12.41	31.92	43.50	11.58	Horizontal	Peak
313.92	47.39	-8.92	38.47	46.00	7.53	Horizontal	QP
323.23	47.55	-8.69	38.86	46.00	7.14	Horizontal	QP
720.06	37.56	0.05	37.61	46.00	8.39	Horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

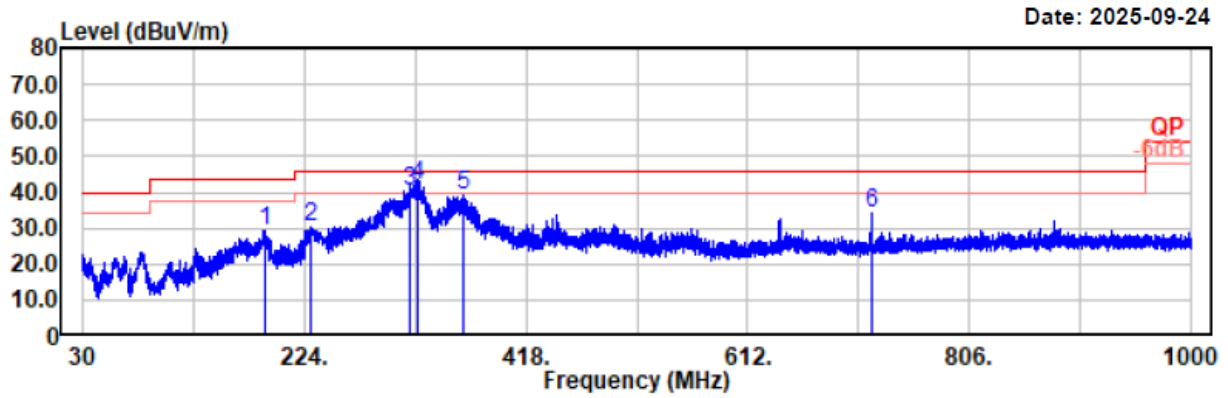


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
31.36	37.92	-6.04	31.88	40.00	8.12	Vertical	QP
52.41	50.62	-17.72	32.90	40.00	7.10	Vertical	QP
79.28	50.31	-17.02	33.29	40.00	6.71	Vertical	Peak
186.95	49.07	-12.34	36.73	43.50	6.77	Vertical	Peak
219.93	46.97	-12.65	34.32	46.00	11.68	Vertical	Peak
317.02	47.65	-8.84	38.81	46.00	7.19	Vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.2°C/55%/99.9kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

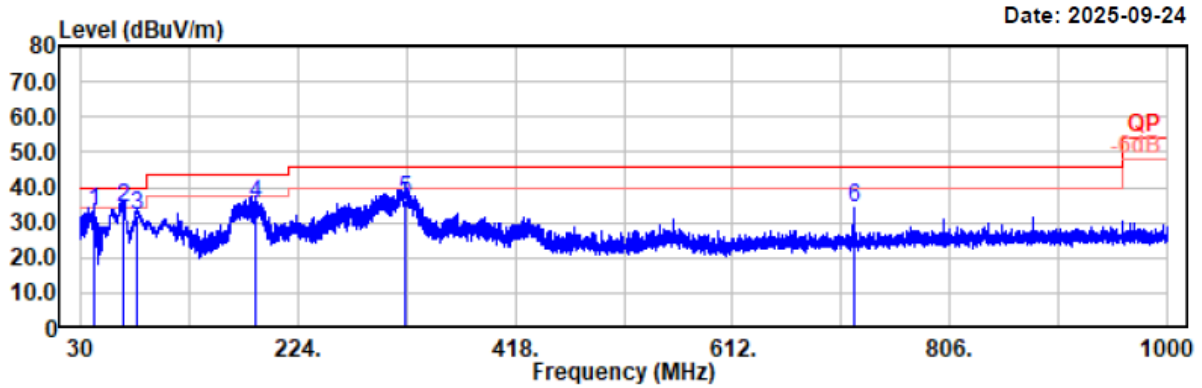


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
188.79	41.89	-12.40	29.49	43.50	14.01	Horizontal	Peak
229.53	42.72	-12.21	30.51	46.00	15.49	Horizontal	Peak
316.34	49.23	-8.86	40.37	46.00	5.63	Horizontal	QP
323.91	50.35	-8.67	41.68	46.00	4.32	Horizontal	QP
363.39	46.60	-7.58	39.02	46.00	6.98	Horizontal	Peak
720.06	34.11	0.05	34.16	46.00	11.84	Horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.2°C/55%/99.9kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



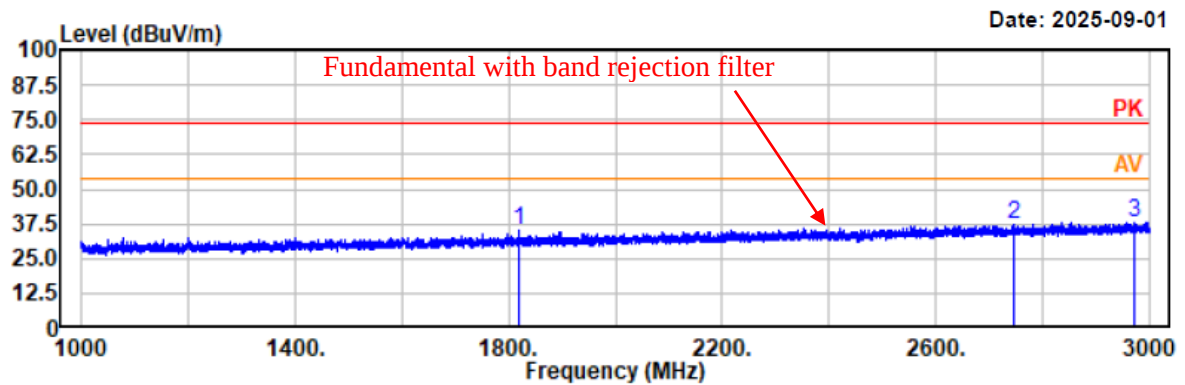
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.93	46.40	-13.05	33.35	40.00	6.65	Vertical	QP
67.25	51.32	-17.11	34.21	40.00	5.79	Vertical	QP
80.63	48.84	-17.06	31.78	40.00	8.22	Vertical	QP
186.75	47.82	-12.38	35.44	43.50	8.06	Vertical	QP
319.93	45.10	-8.77	36.33	46.00	9.67	Vertical	QP
720.06	34.28	0.05	34.33	46.00	11.67	Vertical	Peak

3) 1GHz~3GHz

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

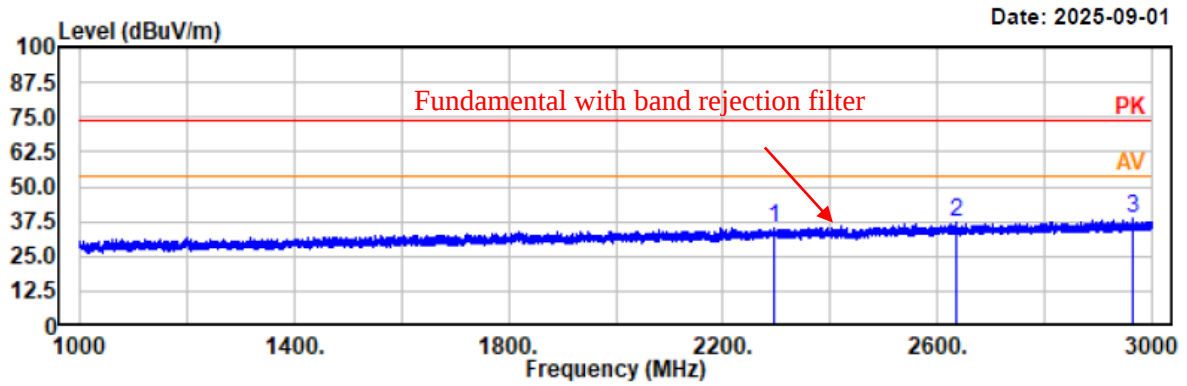


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1819.00	48.15	-13.17	34.98	74.00	39.02	horizontal	Peak
2745.60	47.00	-9.96	37.04	74.00	36.96	horizontal	Peak
2972.40	46.94	-9.08	37.86	74.00	36.14	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

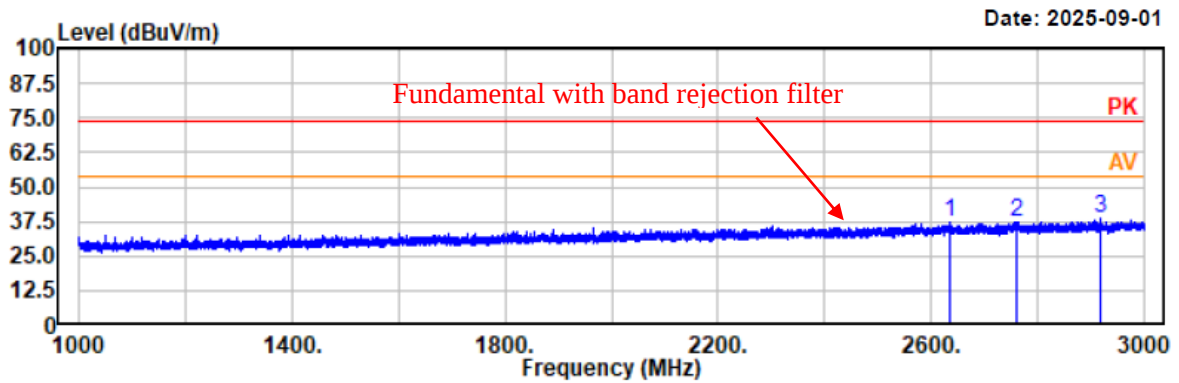


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2295.20	46.93	-11.45	35.48	74.00	38.52	vertical	Peak
2637.00	47.31	-10.25	37.06	74.00	36.94	vertical	Peak
2966.20	47.46	-9.12	38.34	74.00	35.66	vertical	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 1M 2440MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

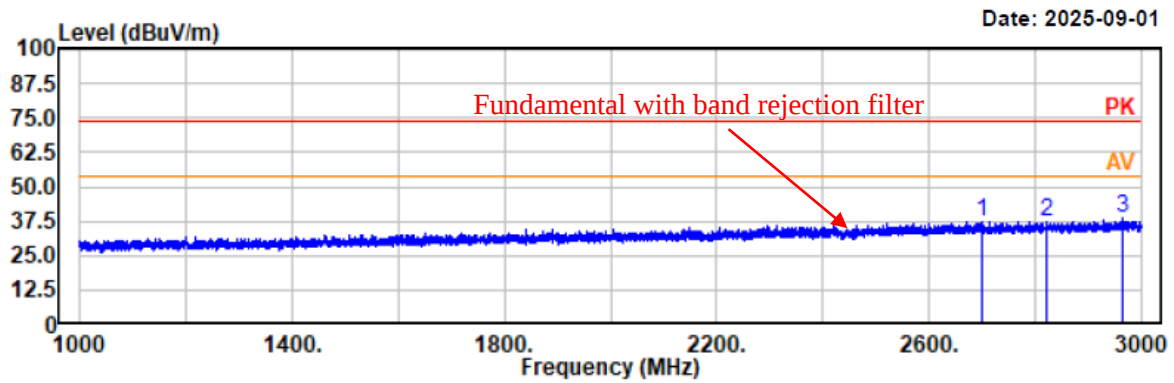


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2637.20	47.19	-10.25	36.94	74.00	37.06	horizontal	Peak
2762.20	47.42	-9.90	37.52	74.00	36.48	horizontal	Peak
2916.80	47.77	-9.43	38.34	74.00	35.66	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

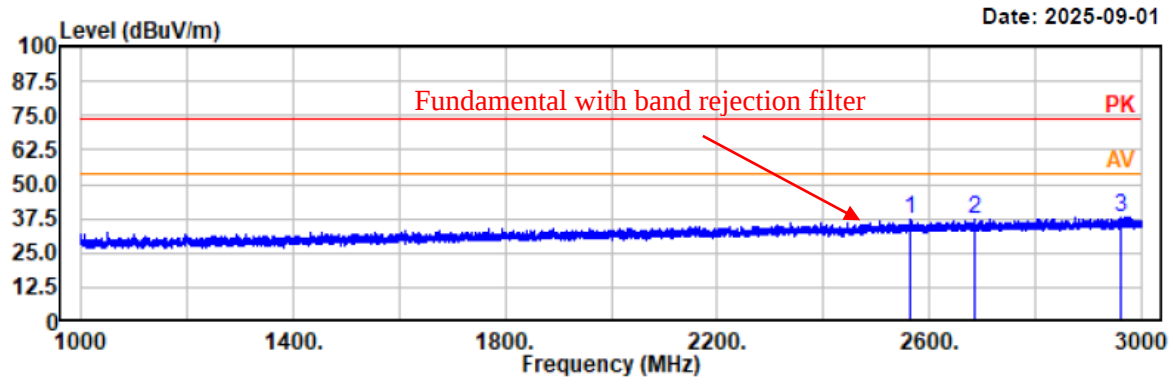


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2698.60	47.32	-10.01	37.31	74.00	36.69	vertical	Peak
2821.00	47.01	-9.73	37.28	74.00	36.72	vertical	Peak
2963.40	47.84	-9.14	38.70	74.00	35.30	vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

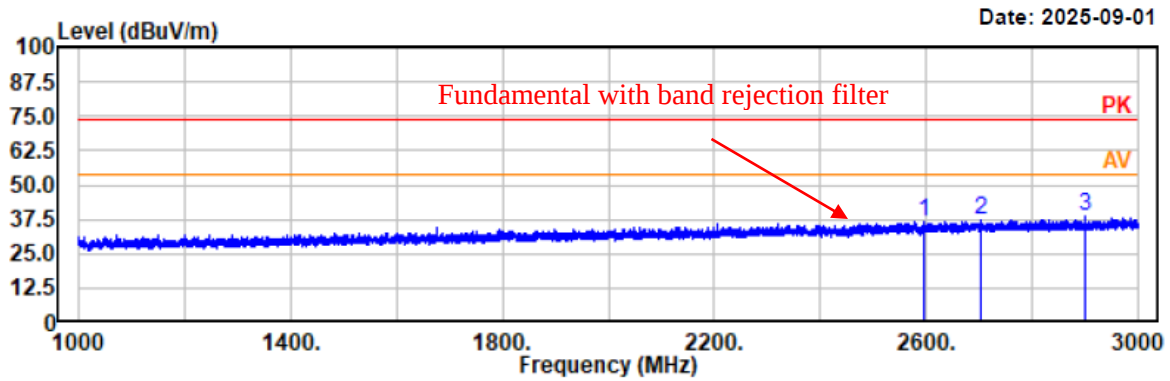


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
2563.60	47.92	-10.55	37.37	74.00	36.63	horizontal	Peak
2684.20	47.57	-10.06	37.51	74.00	36.49	horizontal	Peak
2962.20	47.13	-9.14	37.99	74.00	36.01	horizontal	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 1M 2480MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

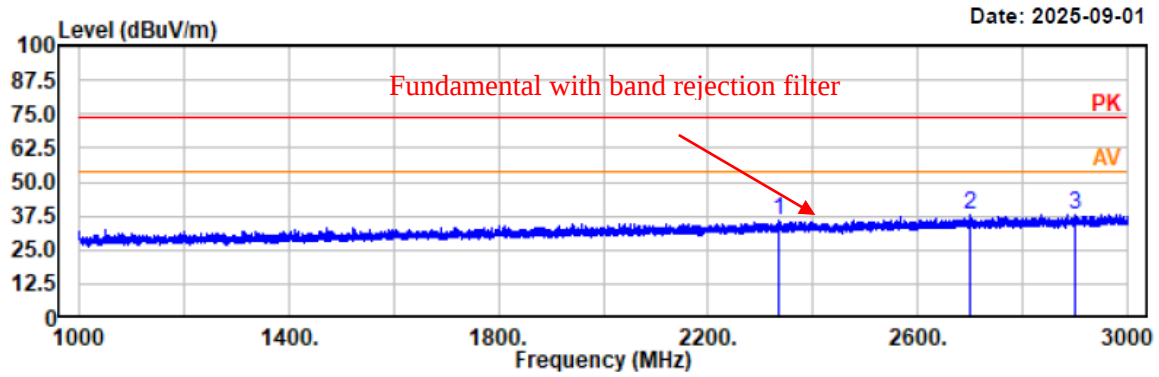


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2596.00	47.11	-10.42	36.69	74.00	37.31	vertical	Peak
2702.40	46.96	-10.00	36.96	74.00	37.04	vertical	Peak
2898.80	48.14	-9.55	38.59	74.00	35.41	vertical	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 2M 2402MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

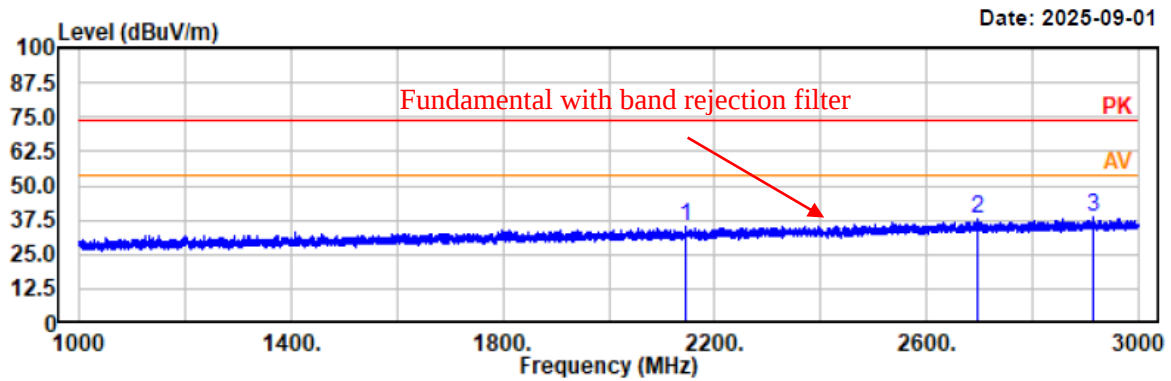


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2334.60	47.05	-11.35	35.70	74.00	38.30	horizontal	Peak
2700.20	47.91	-10.00	37.91	74.00	36.09	horizontal	Peak
2900.20	47.49	-9.55	37.94	74.00	36.06	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

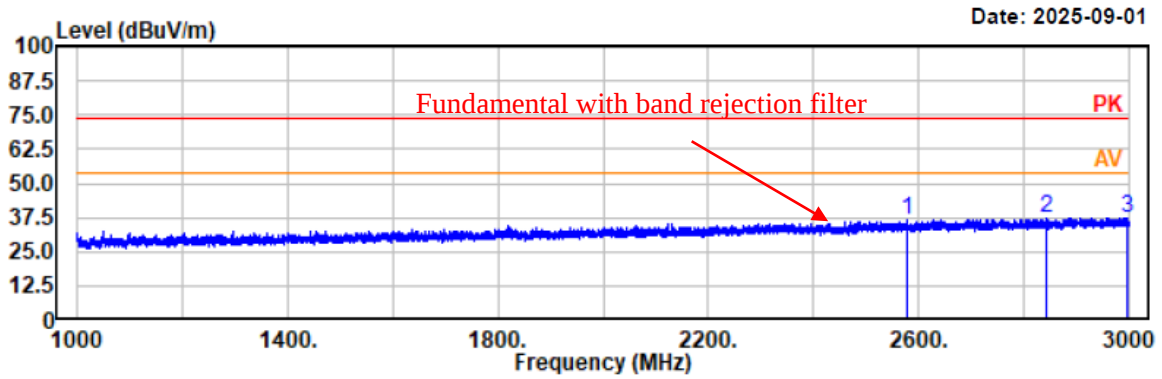


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2144.80	47.15	-12.15	35.00	74.00	39.00	vertical	Peak
2697.00	47.77	-10.01	37.76	74.00	36.24	vertical	Peak
2914.40	47.89	-9.45	38.44	74.00	35.56	vertical	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 2M 2440MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

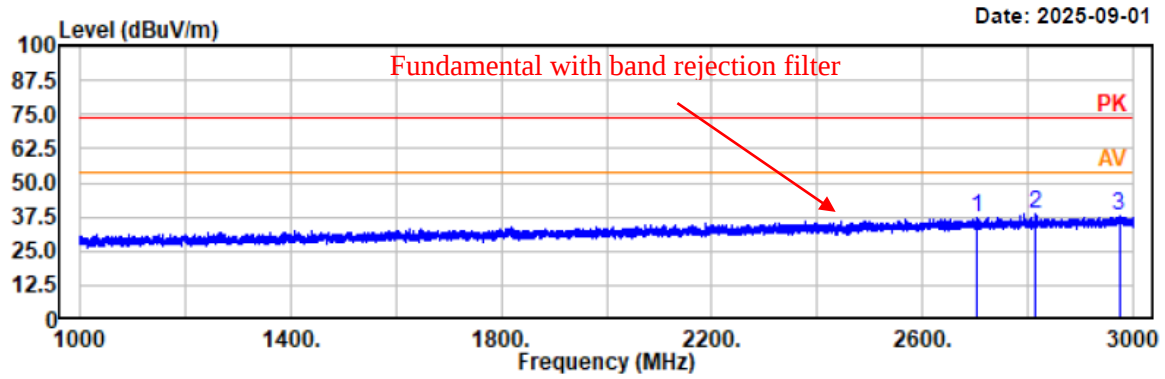


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2577.40	47.29	-10.49	36.80	74.00	37.20	horizontal	Peak
2844.20	46.54	-9.64	36.90	74.00	37.10	horizontal	Peak
2995.80	46.46	-8.97	37.49	74.00	36.51	horizontal	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 2M 2440MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

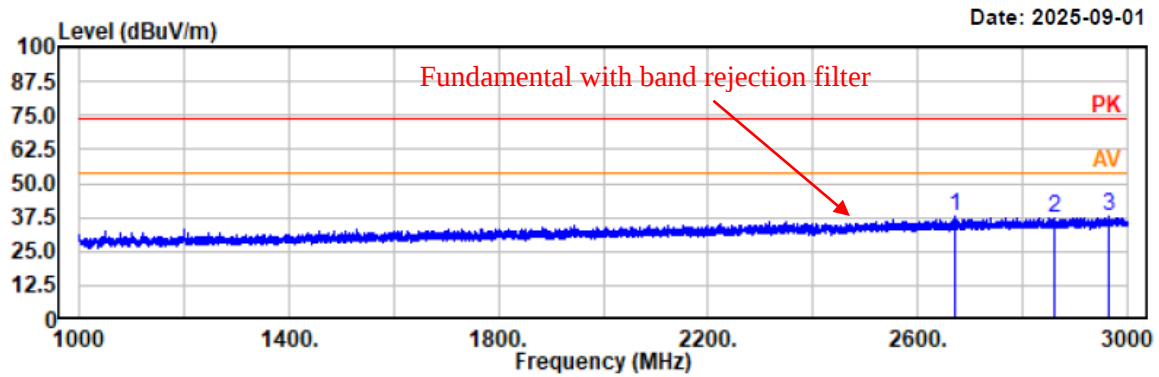


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2702.00	47.14	-10.00	37.14	74.00	36.86	vertical	Peak
2814.60	48.28	-9.74	38.54	74.00	35.46	vertical	Peak
2973.80	46.77	-9.07	37.70	74.00	36.30	vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

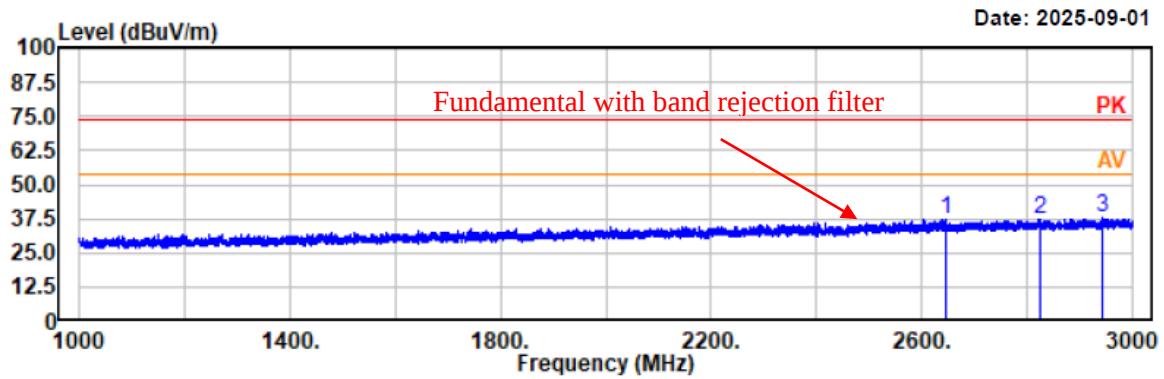


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2669.80	47.85	-10.12	37.73	74.00	36.27	horizontal	Peak
2862.60	47.02	-9.60	37.42	74.00	36.58	horizontal	Peak
2964.20	47.25	-9.13	38.12	74.00	35.88	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



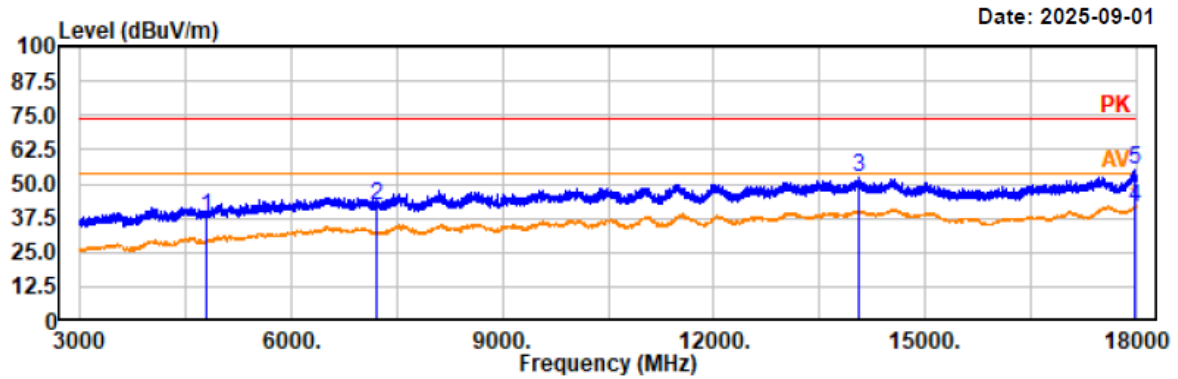
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2644.60	47.44	-10.22	37.22	74.00	36.78	vertical	Peak
2823.60	46.93	-9.71	37.22	74.00	36.78	vertical	Peak
2942.00	47.02	-9.26	37.76	74.00	36.24	vertical	Peak

4) 3GHz~18GHz

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

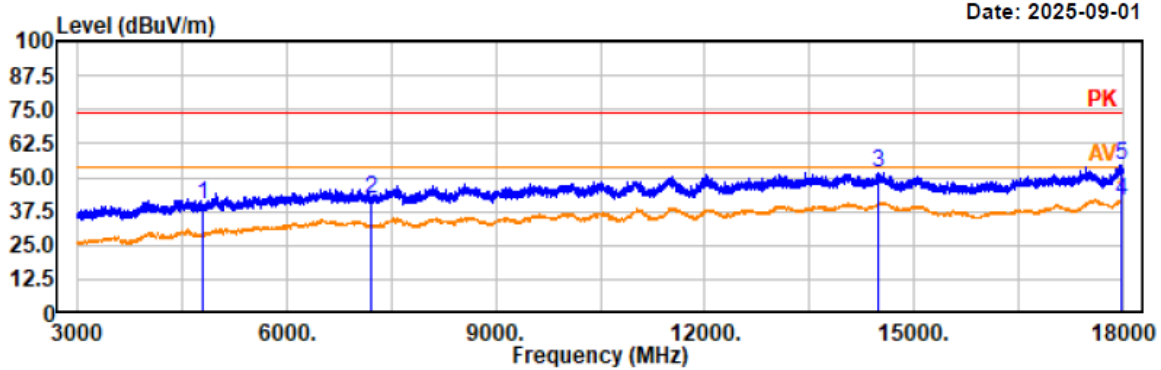
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	43.21	-5.24	37.97	74.00	36.03	horizontal	Peak
7206.00	44.38	-2.55	41.83	74.00	32.17	horizontal	Peak
14050.50	47.35	5.27	52.62	74.00	21.38	horizontal	Peak
17983.50	34.32	6.89	41.21	54.00	12.79	horizontal	Average
17983.50	48.05	6.89	54.94	74.00	19.06	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



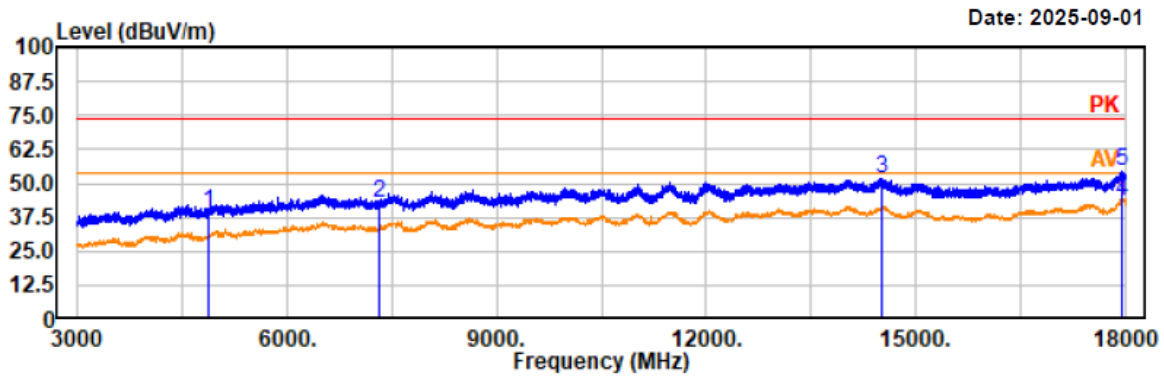
Trace: 1

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.93	-5.24	39.69	74.00	34.31	vertical	Peak
7206.00	44.95	-2.55	42.40	74.00	31.60	vertical	Peak
14493.00	46.95	5.08	52.03	74.00	21.97	vertical	Peak
17989.50	34.49	6.90	41.39	54.00	12.61	vertical	Average
17989.50	47.67	6.90	54.57	74.00	19.43	vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

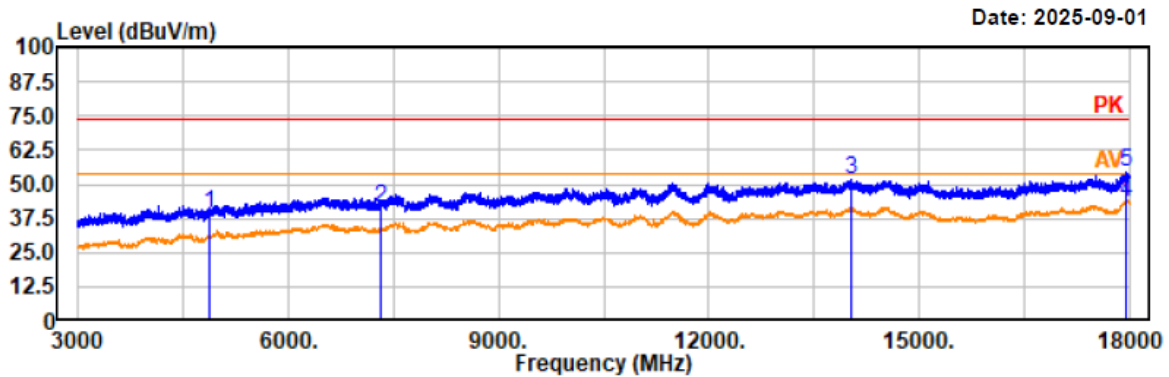
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	44.84	-5.30	39.54	74.00	34.46	horizontal	Peak
7320.00	44.91	-2.25	42.66	74.00	31.34	horizontal	Peak
14517.00	46.76	5.06	51.82	74.00	22.18	horizontal	Peak
17943.00	36.40	6.84	43.24	54.00	10.76	horizontal	Average
17943.00	47.76	6.84	54.60	74.00	19.40	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



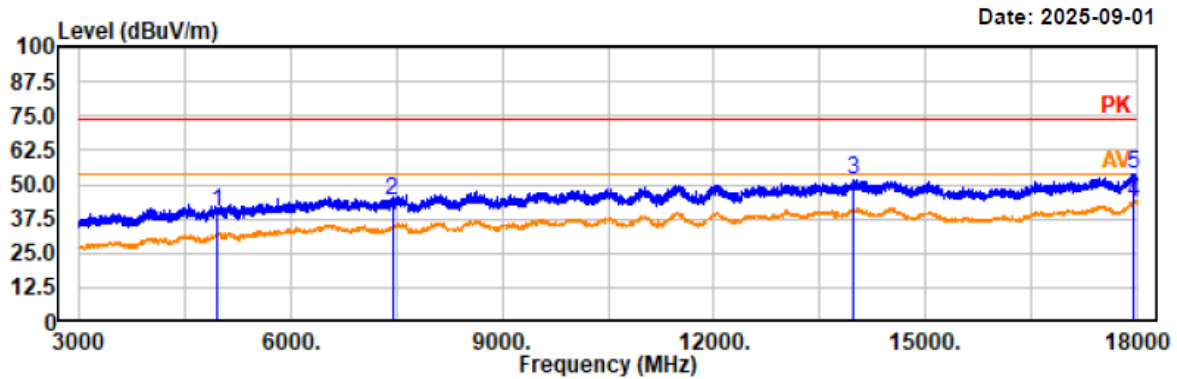
Trace: 1

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	44.42	-5.30	39.12	74.00	34.88	vertical	Peak
7320.00	43.53	-2.25	41.28	74.00	32.72	vertical	Peak
14032.50	46.18	5.24	51.42	74.00	22.58	vertical	Peak
17946.00	36.66	6.86	43.52	54.00	10.48	vertical	Average
17946.00	47.96	6.86	54.82	74.00	19.18	vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

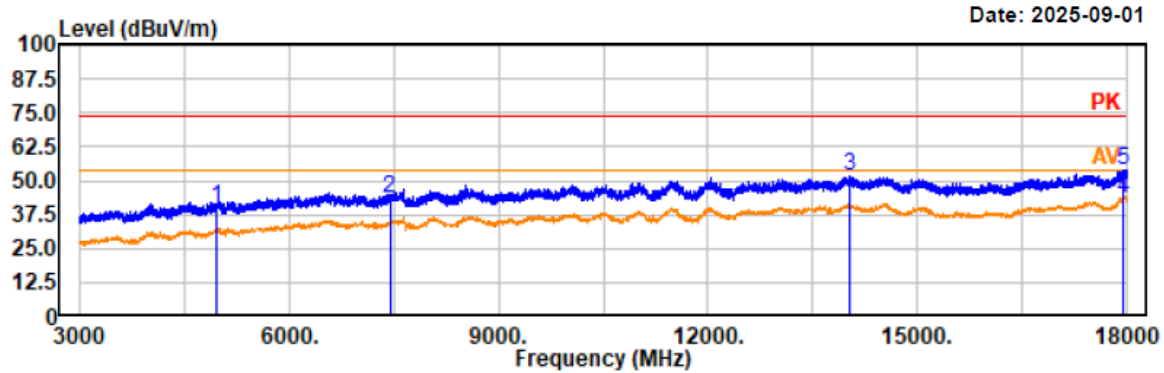
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	45.22	-5.11	40.11	74.00	33.89	horizontal	Peak
7440.00	45.96	-2.03	43.93	74.00	30.07	horizontal	Peak
13965.00	46.42	5.19	51.61	74.00	22.39	horizontal	Peak
17947.50	36.34	6.86	43.20	54.00	10.80	horizontal	Average
17947.50	47.11	6.86	53.97	74.00	20.03	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

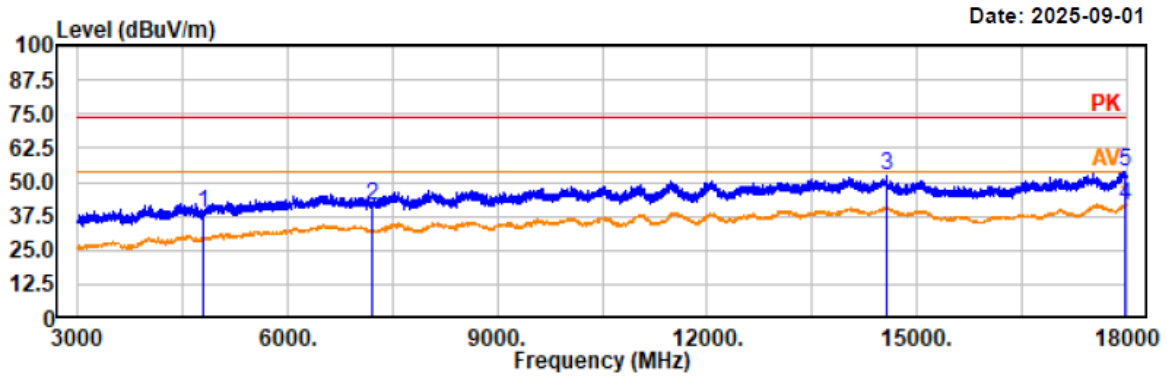
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	44.80	-5.11	39.69	74.00	34.31	vertical	Peak
7440.00	45.69	-2.03	43.66	74.00	30.34	vertical	Peak
14034.00	46.26	5.25	51.51	74.00	22.49	vertical	Peak
17953.50	36.83	6.86	43.69	54.00	10.31	vertical	Average
17953.50	47.04	6.86	53.90	74.00	20.10	vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

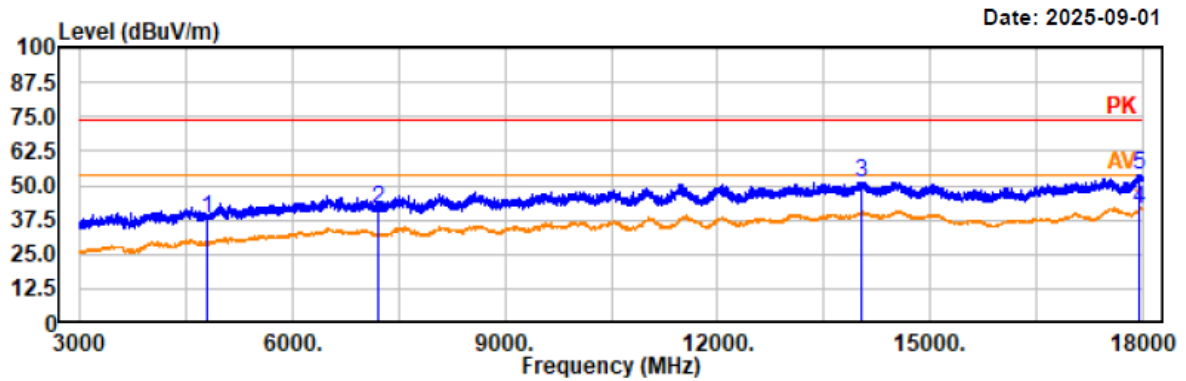
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	43.67	-5.24	38.43	74.00	35.57	horizontal	Peak
7206.00	44.14	-2.55	41.59	74.00	32.41	horizontal	Peak
14569.50	47.16	5.03	52.19	74.00	21.81	horizontal	Peak
17976.00	34.67	6.89	41.56	54.00	12.44	horizontal	Average
17976.00	47.01	6.89	53.90	74.00	20.10	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

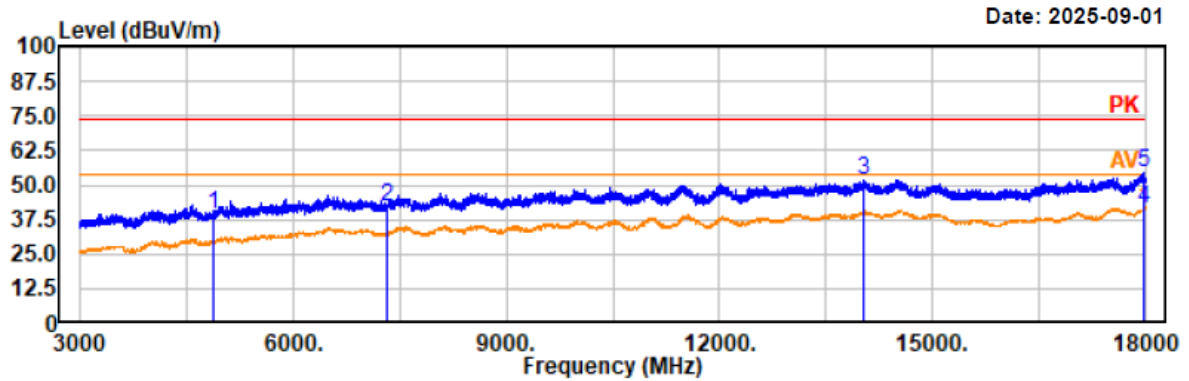
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
4804.00	43.41	-5.24	38.17	74.00	35.83	vertical	Peak
7206.00	44.12	-2.55	41.57	74.00	32.43	vertical	Peak
14028.00	46.01	5.24	51.25	74.00	22.75	vertical	Peak
17940.00	34.24	6.84	41.08	54.00	12.92	vertical	Average
17940.00	47.29	6.84	54.13	74.00	19.87	vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



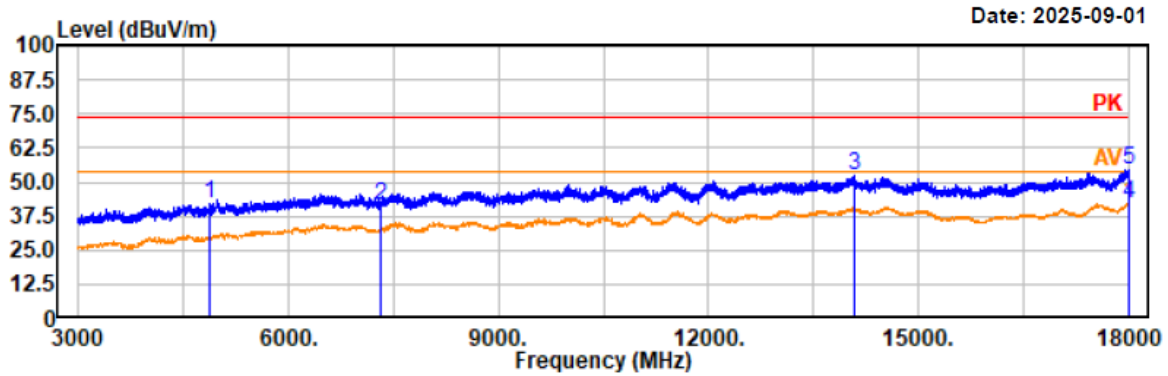
Trace: 1

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	44.47	-5.30	39.17	74.00	34.83	horizontal	Peak
7320.00	44.20	-2.25	41.95	74.00	32.05	horizontal	Peak
14029.50	46.74	5.24	51.98	74.00	22.02	horizontal	Peak
17985.00	34.68	6.89	41.57	54.00	12.43	horizontal	Average
17985.00	47.73	6.89	54.62	74.00	19.38	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

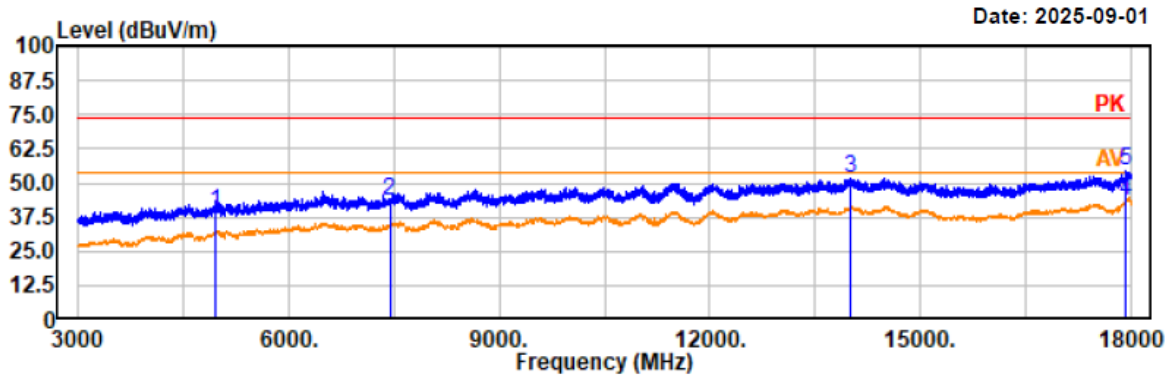
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	47.44	-5.30	42.14	74.00	31.86	vertical	Peak
7320.00	43.89	-2.25	41.64	74.00	32.36	vertical	Peak
14083.50	46.84	5.32	52.16	74.00	21.84	vertical	Peak
17997.00	34.91	6.91	41.82	54.00	12.18	vertical	Average
17997.00	47.35	6.91	54.26	74.00	19.74	vertical	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

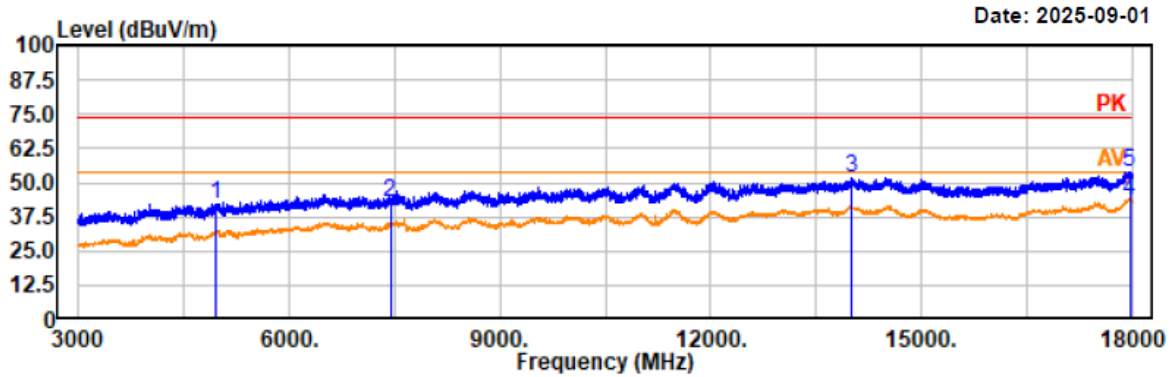
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	44.73	-5.11	39.62	74.00	34.38	horizontal	Peak
7440.00	45.71	-2.03	43.68	74.00	30.32	horizontal	Peak
14001.00	46.32	5.20	51.52	74.00	22.48	horizontal	Peak
17929.50	36.77	6.84	43.61	54.00	10.39	horizontal	Average
17929.50	47.38	6.84	54.22	74.00	19.78	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

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

AV RBW:1MHz VBW:5kHz SWT:auto

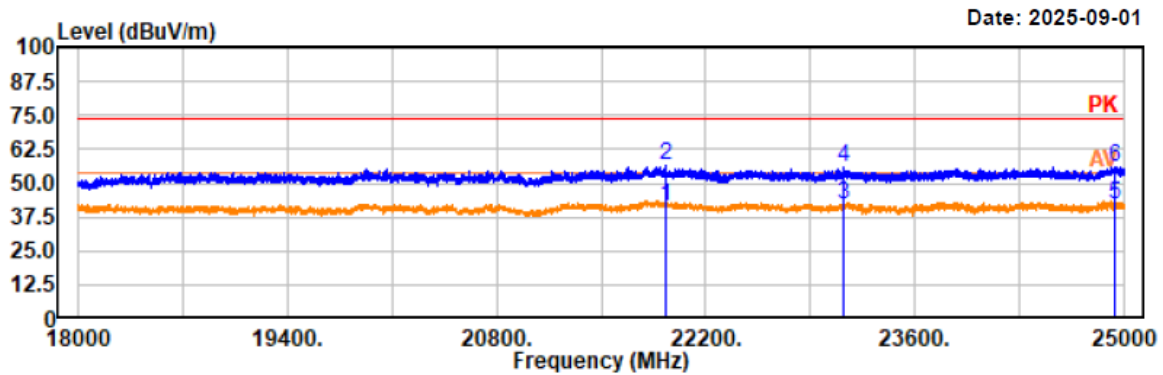
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	47.03	-5.11	41.92	74.00	32.08	vertical	Peak
7440.00	44.49	-2.03	42.46	74.00	31.54	vertical	Peak
14013.00	46.58	5.22	51.80	74.00	22.20	vertical	Peak
17965.50	36.84	6.87	43.71	54.00	10.29	vertical	Average
17965.50	47.02	6.87	53.89	74.00	20.11	vertical	Peak

5) 18GHz~25GHz

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

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 1.5m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

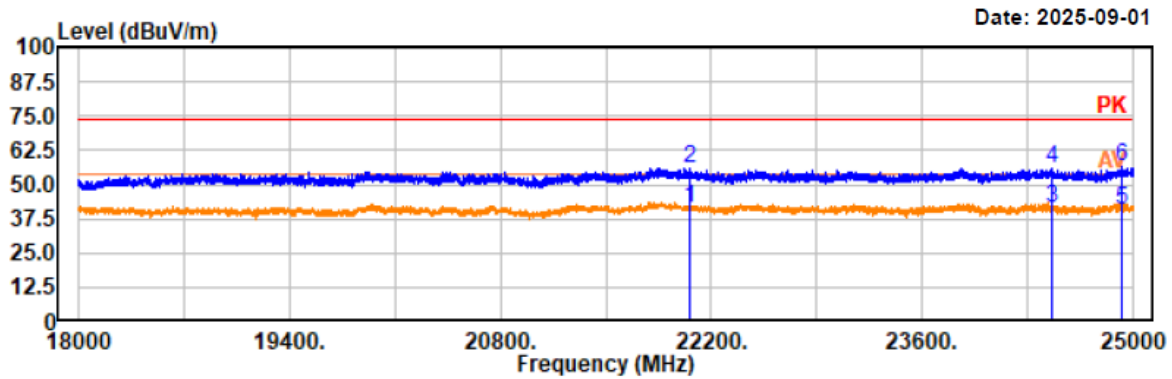
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21927.85	36.09	5.19	41.28	54.00	12.72	horizontal	Average
21927.85	51.24	5.19	56.43	74.00	17.57	horizontal	Peak
23119.55	36.79	4.94	41.73	54.00	12.27	horizontal	Average
23119.55	50.80	4.94	55.74	74.00	18.26	horizontal	Peak
24938.55	35.75	6.32	42.07	54.00	11.93	horizontal	Average
24938.55	49.62	6.32	55.94	74.00	18.06	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 1.5m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

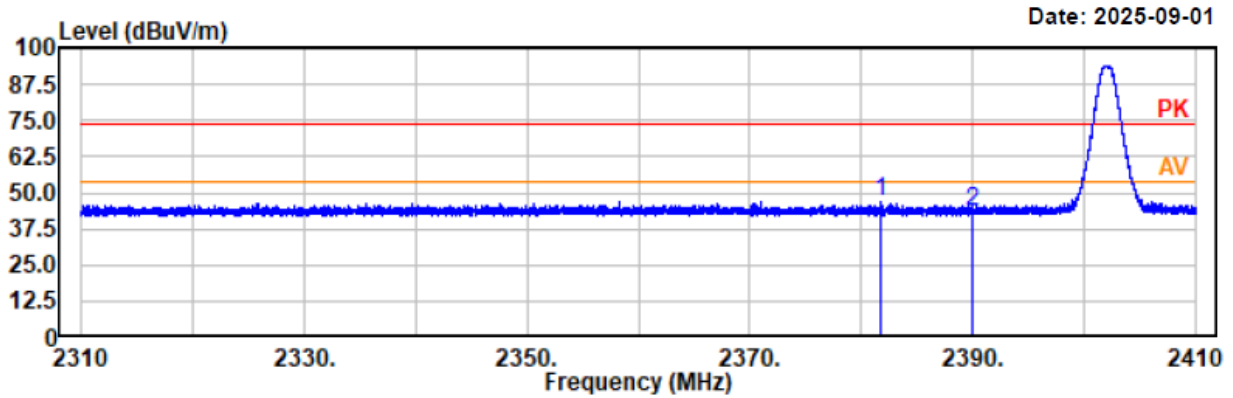
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
22051.95	36.47	5.12	41.59	54.00	12.41	vertical	Average
22051.95	51.05	5.12	56.17	74.00	17.83	vertical	Peak
24458.30	34.95	6.16	41.11	54.00	12.89	vertical	Average
24458.30	50.00	6.16	56.16	74.00	17.84	vertical	Peak
24928.35	34.25	6.32	40.57	54.00	13.43	vertical	Average
24928.35	50.06	6.32	56.38	74.00	17.62	vertical	Peak

Restricted Bands Emissions:

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

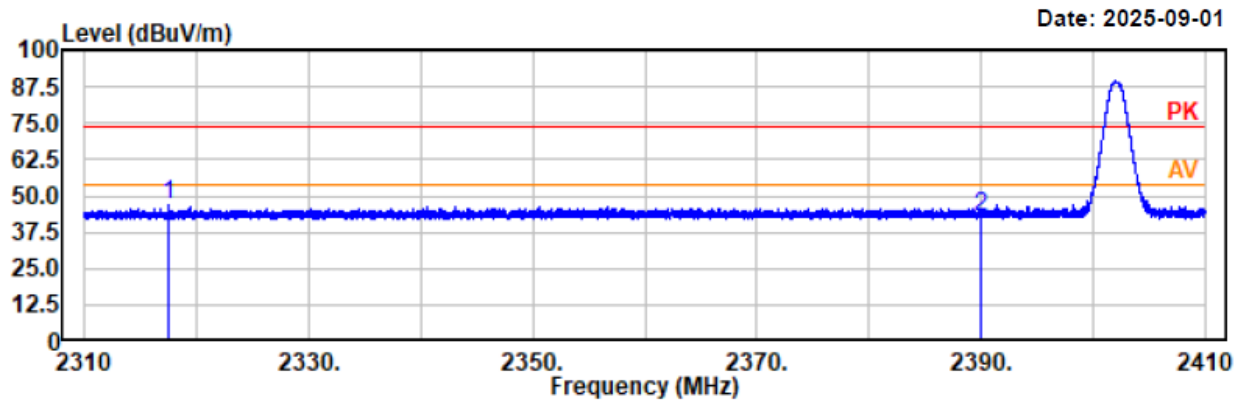


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2381.72	48.32	-1.19	47.13	74.00	26.87	horizontal	Peak
2390.00	44.93	-1.15	43.78	74.00	30.22	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

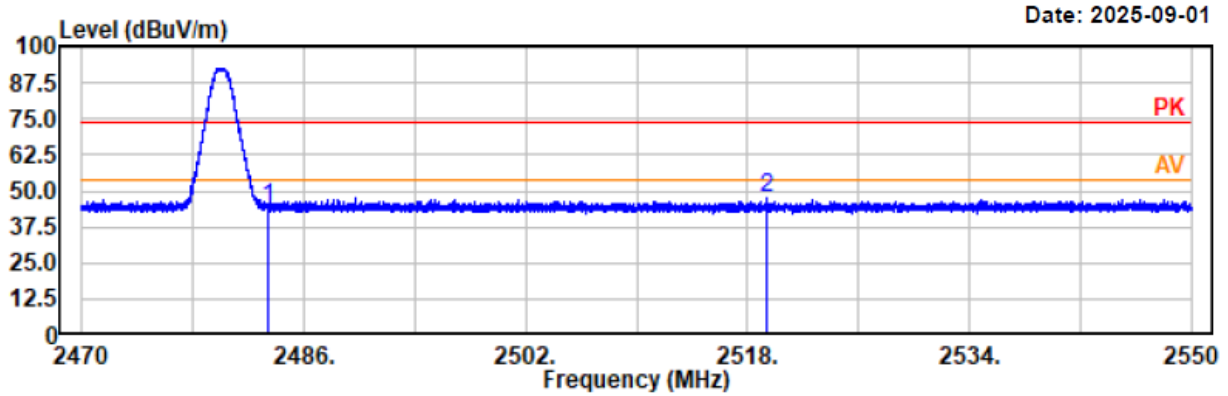


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
2317.54	48.01	-1.38	46.63	74.00	27.37	vertical	Peak
2390.00	44.03	-1.15	42.88	74.00	31.12	vertical	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 1M 2480MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

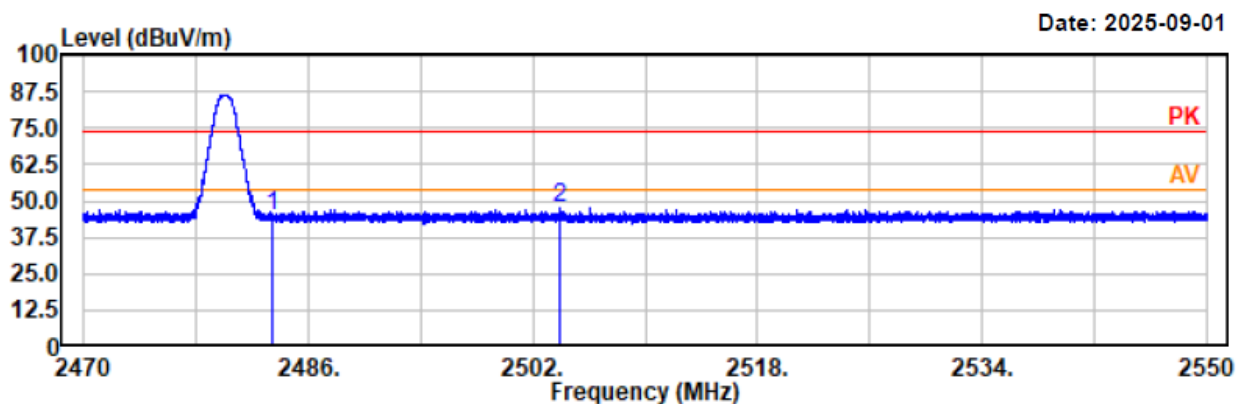


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.73	-0.77	43.96	74.00	30.04	horizontal	Peak
2519.35	47.91	-0.66	47.25	74.00	26.75	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

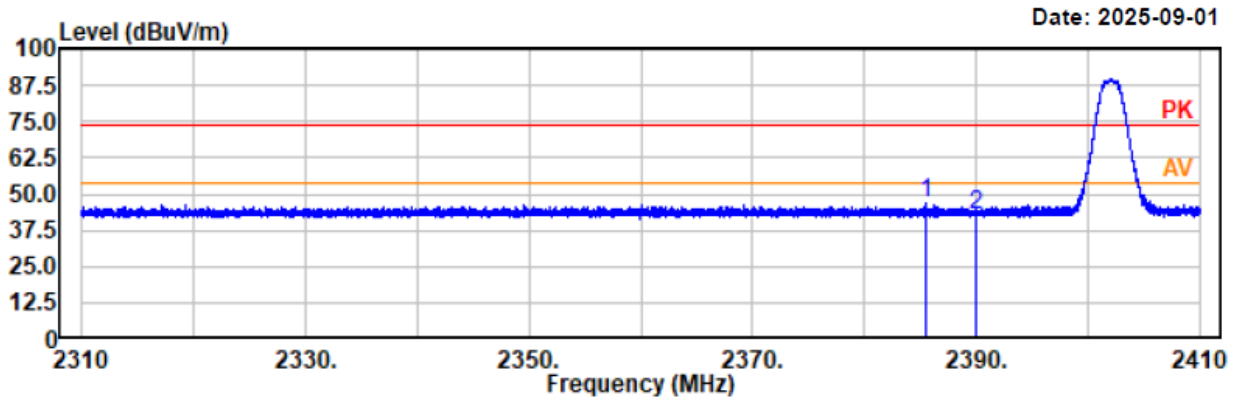


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.85	-0.77	45.08	74.00	28.92	vertical	Peak
2503.91	48.32	-0.69	47.63	74.00	26.37	vertical	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 2M 2402MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

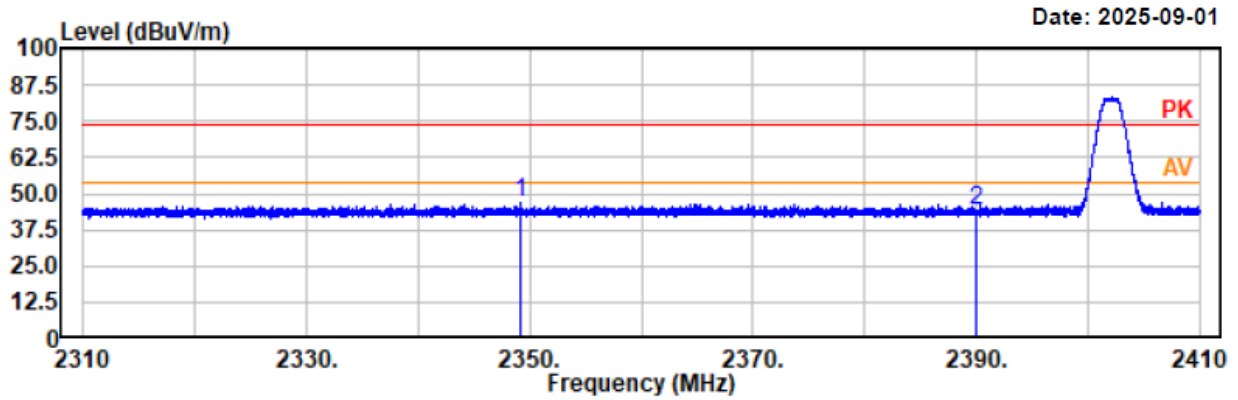


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2385.58	47.75	-1.17	46.58	74.00	27.42	horizontal	Peak
2390.00	44.14	-1.15	42.99	74.00	31.01	horizontal	Peak

Project No.: 2507S37254E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: C3G
Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

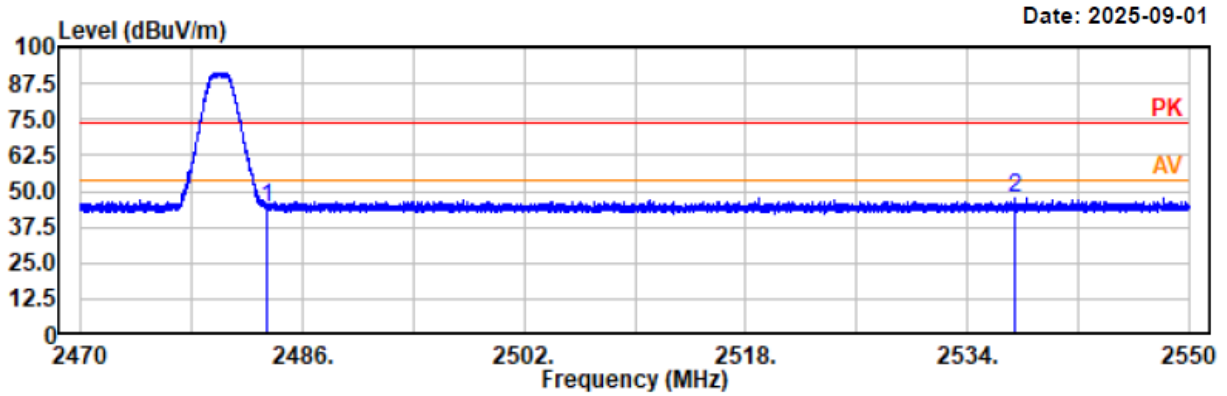


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2349.18	47.99	-1.31	46.68	74.00	27.32	vertical	Peak
2390.00	45.06	-1.15	43.91	74.00	30.09	vertical	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 2M 2480MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz

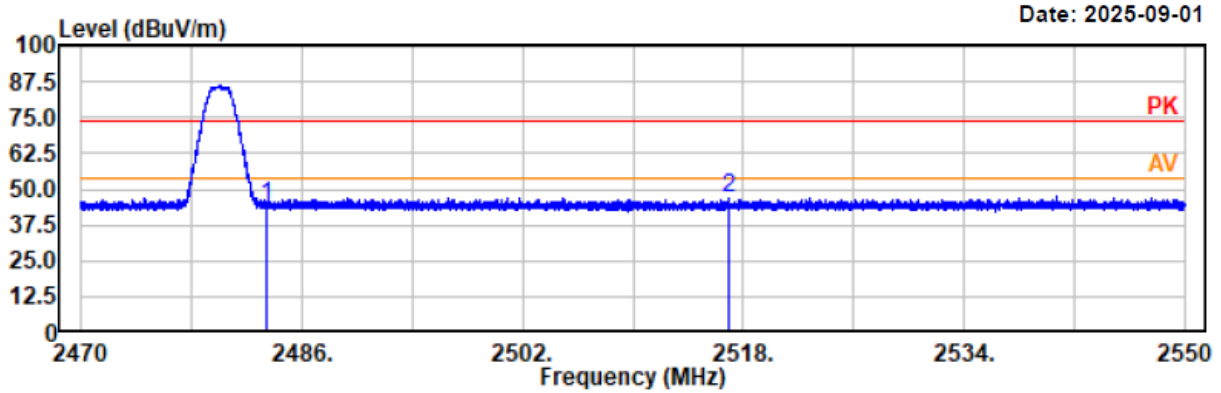


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.22	-0.77	44.45	74.00	29.55	horizontal	Peak
2537.49	48.30	-0.62	47.68	74.00	26.32	horizontal	Peak

Project No.: 2507S37254E-RF
 Test Mode: BLE 2M 2480MHz
 EUT Model: C3G
 Test distance: 3m

Temp/Humi/ATM: 22.5°C/55%/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	45.23	-0.77	44.46	74.00	29.54	vertical	Peak
2516.90	47.50	-0.67	46.83	74.00	27.17	vertical	Peak

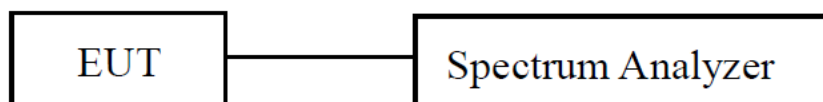
FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH

Applicable Standard

FCC§15.247 (a)(2)

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

EUT Setup



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

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

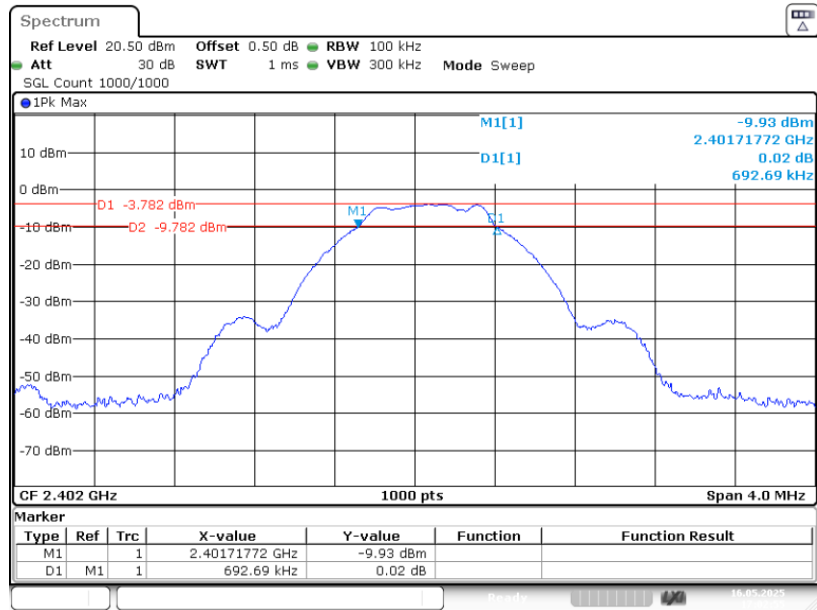
According to ANSI C63.10-2020 Section 11.8

- 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

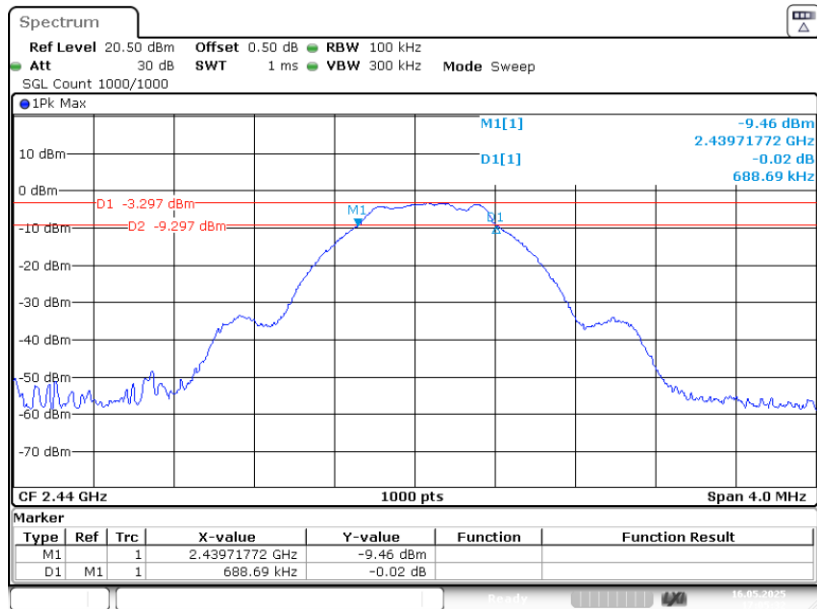
Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-05-16	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C Humi.: 56% Atm :100.3kPa
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE 1Mbps	2402	0.693	≥ 0.5
	2440	0.689	≥ 0.5
	2480	0.693	≥ 0.5
BLE 2Mbps	2402	1.363	≥ 0.5
	2440	1.369	≥ 0.5
	2480	1.369	≥ 0.5

BLE 1Mbps_Low Channel



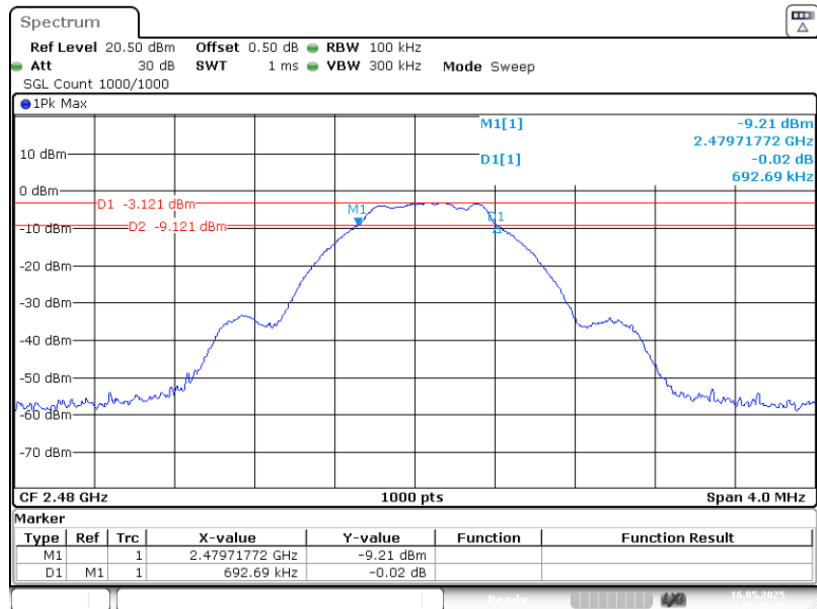
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:02:55

Middle Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:05:31

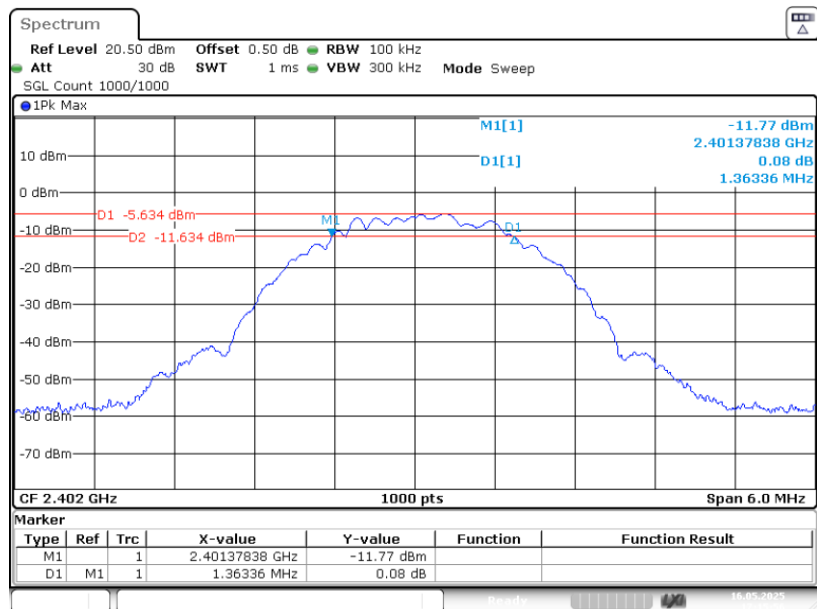
High Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma

Date: 16.MAY.2025 17:08:12

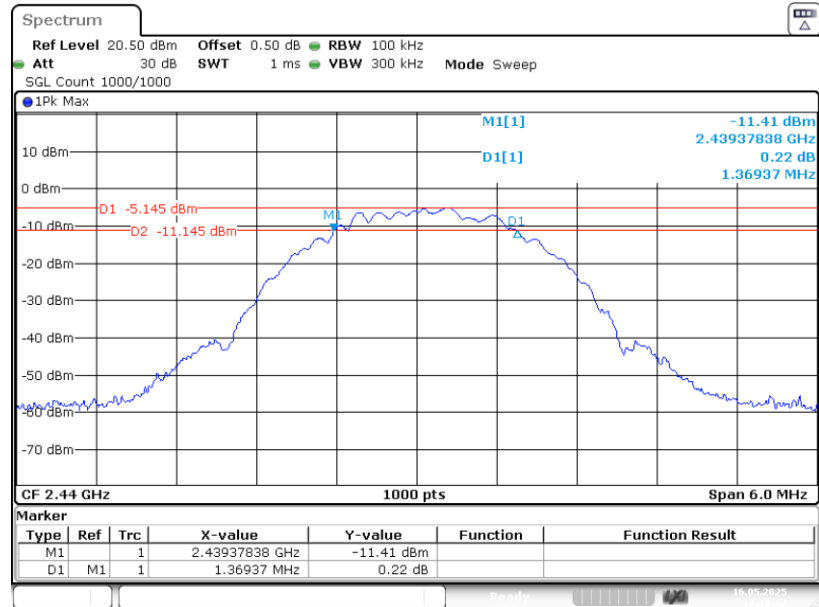
BLE 2Mbps_Low Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma

Date: 16.MAY.2025 17:15:56

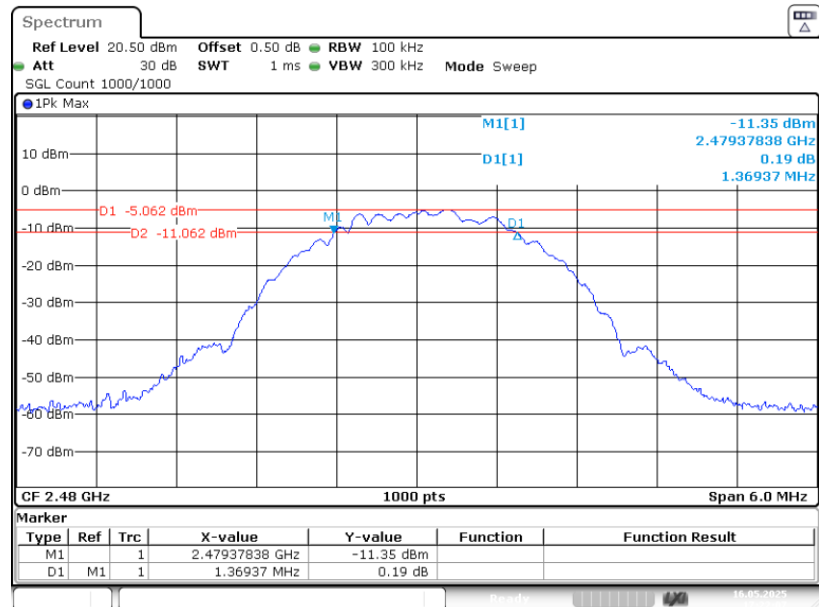
BLE 2Mbps_Middle Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma

Date: 16.MAY.2025 17:18:47

BLE 2Mbps_High Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma

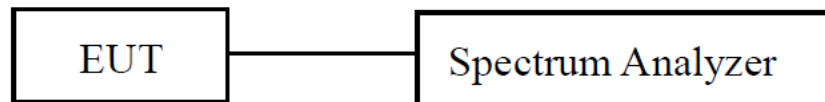
Date: 16.MAY.2025 17:22:07

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



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

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

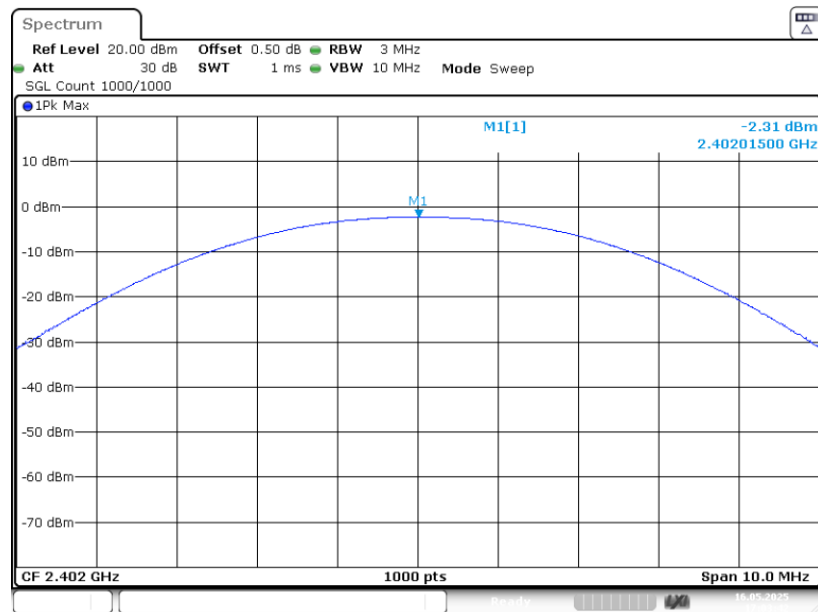
According to ANSI C63.10-2020 Section 11.9.1.1 the DTS bandwidth is available to perform the measurement:

- 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

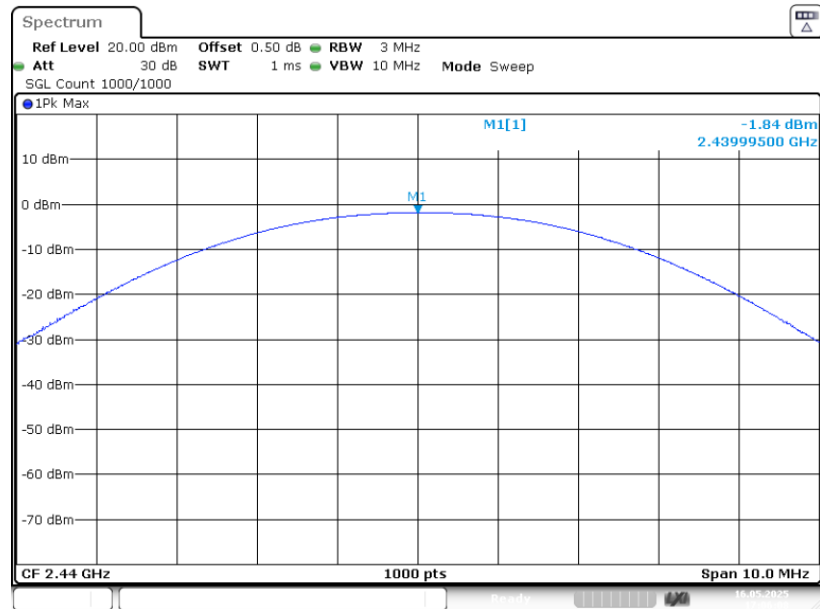
Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-05-16	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C Humi.: 56% Atm :100.3kPa
Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
BLE 1Mbps	2402	-2.31	≤30
	2440	-1.84	≤30
	2480	-1.53	≤30
BLE 2Mbps	2402	-2.22	≤30
	2440	-1.86	≤30
	2480	-1.81	≤30
Antenna gain (dBi):	3.26		

Please refer to the below plots:

BLE 1Mbps_Lowest Channel

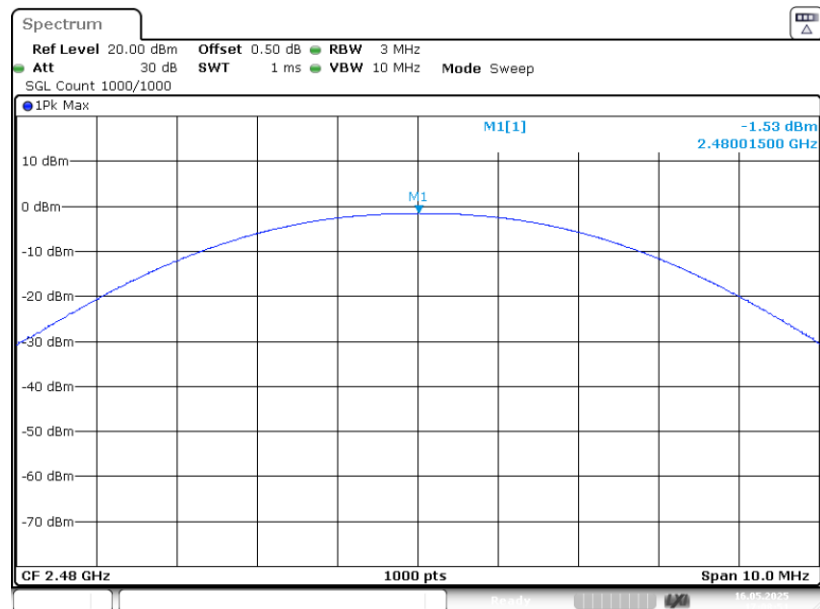
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
Date: 16.MAY.2025 17:03:41

BLE 1Mbps_Middle Channel



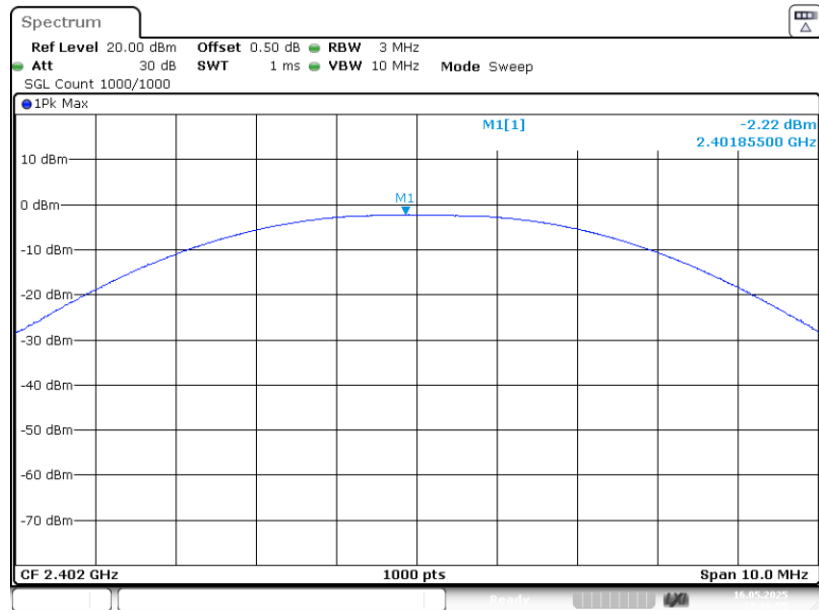
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
Date: 16.MAY.2025 17:06:08

BLE 1Mbps_Highest Channel



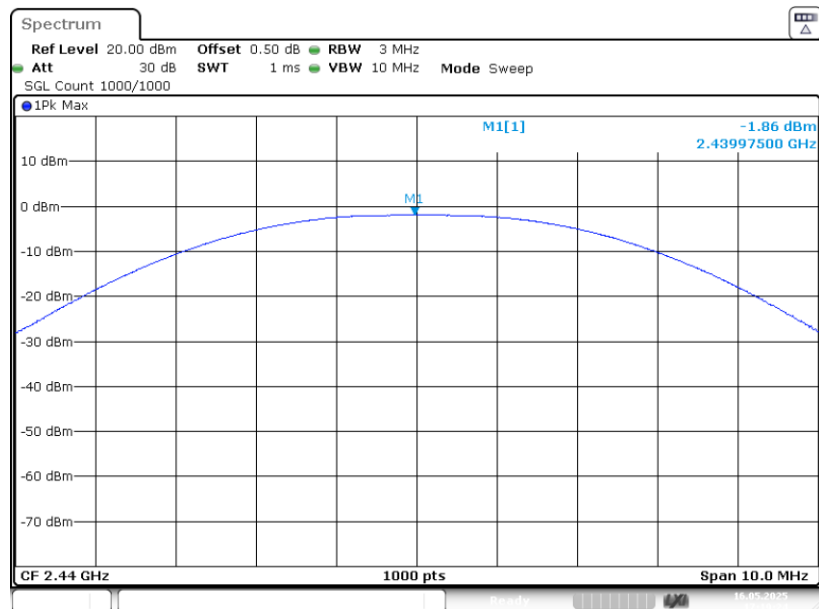
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
Date: 16.MAY.2025 17:08:52

BLE 2Mbps_Low Channel



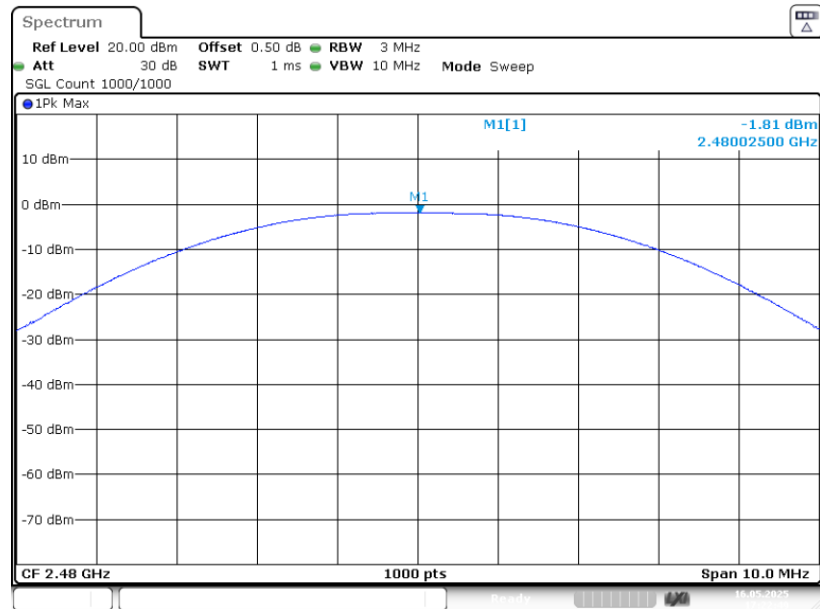
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
Date: 16.MAY.2025 17:16:55

BLE 2Mbps_Middle Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
Date: 16.MAY.2025 17:19:24

BLE 2Mbps_Highest Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:22:50

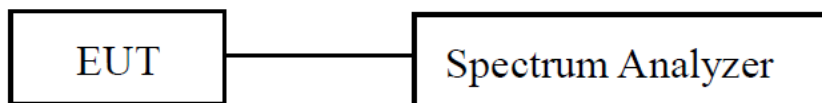
FCC §15.247(d)– 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

FCC §15.247 (d)

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

EUT Setup



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

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.11

a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

b) Set the RBW = 100 kHz.

c) Set the VBW $\geq [3 \times \text{RBW}]$.

d) Detector = peak.

e) Sweep time = No faster than coupled (auto) time.

f) Trace mode = max-hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

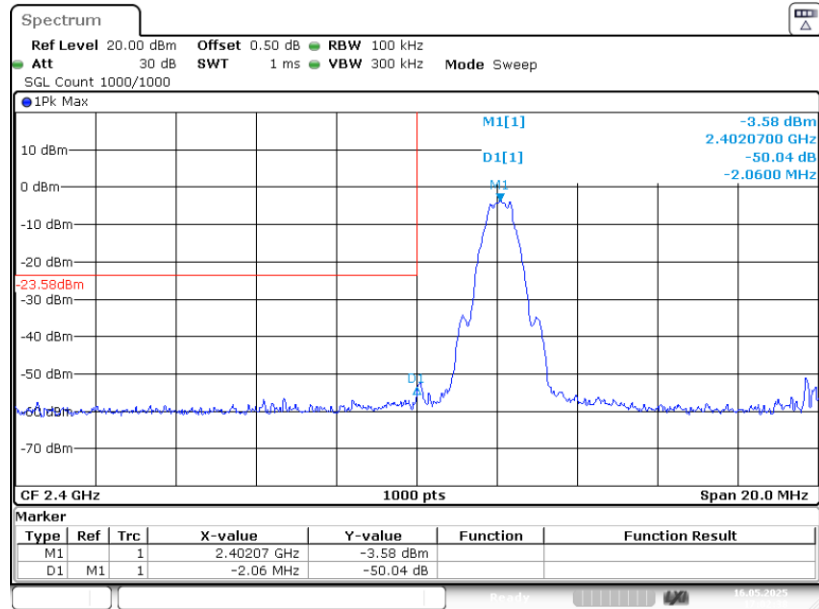
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-05-16	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C Humi.: 56% Atm :100.3kPa

Please refer to the below plots:

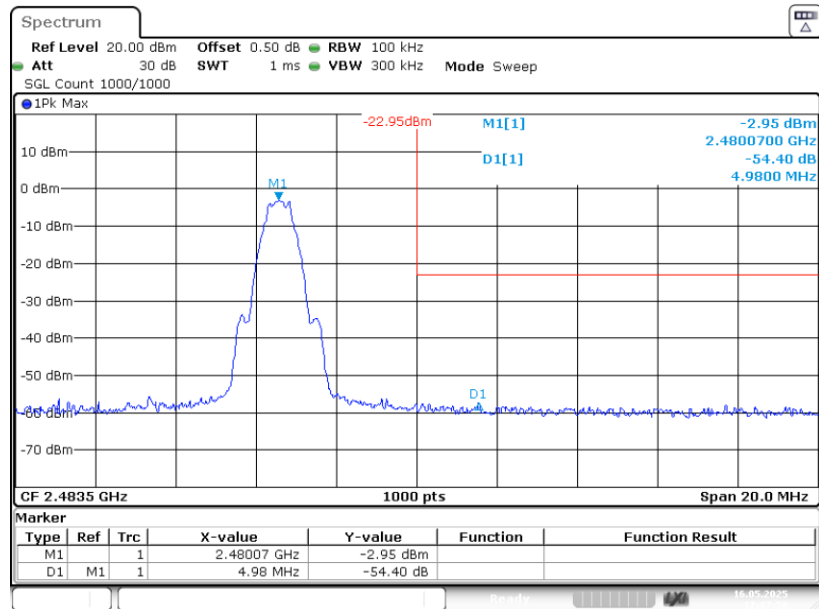
BLE 1Mbps_Lowest Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma

Date: 16.MAY.2025 17:02:37

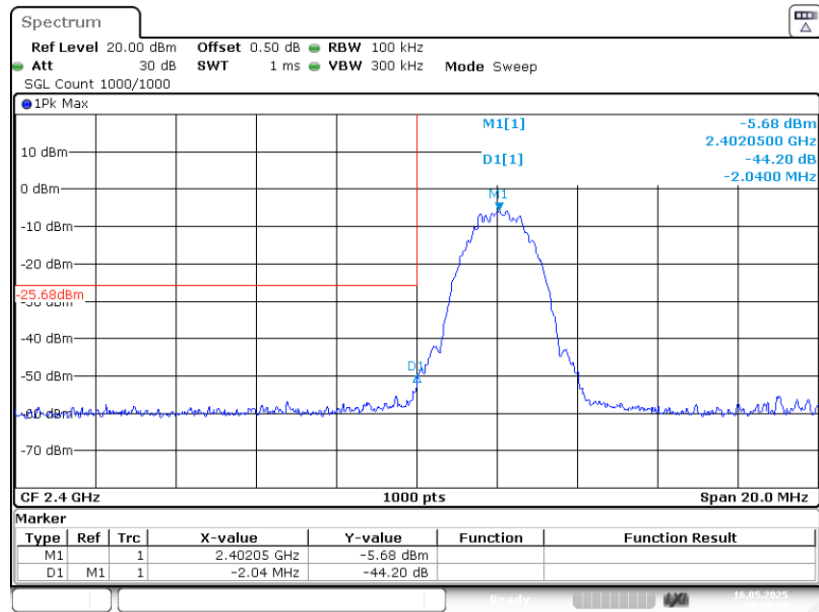
BLE 1Mbps_Highest Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma

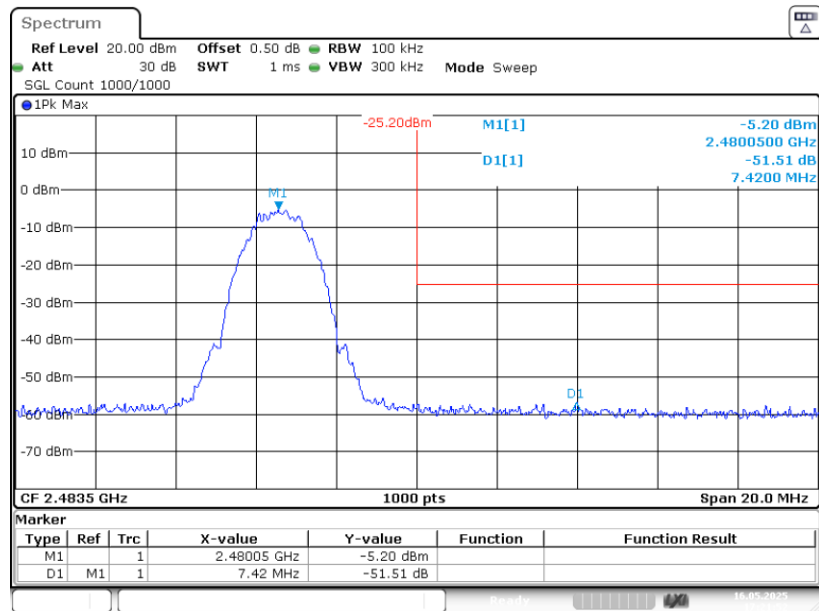
Date: 16.MAY.2025 17:07:57

BLE 2Mbps_Lowest Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:15:39

BLE 2Mbps_Highest Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:21:52

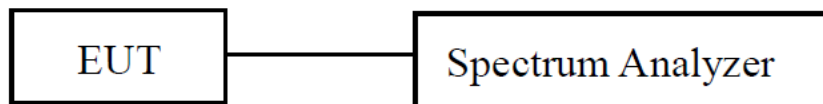
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

FCC §15.247 (e)

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

EUT Setup



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

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

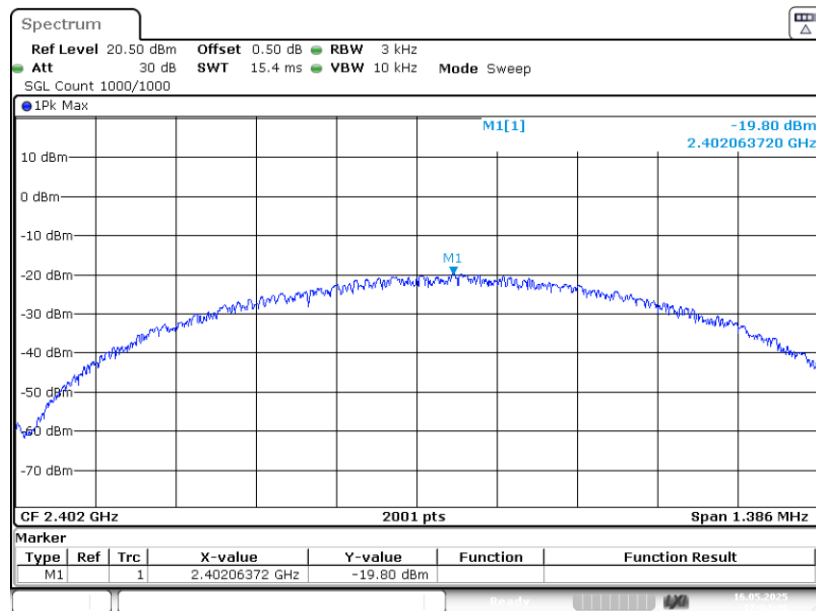
According to ANSI C63.10-2020 Section 11.10.2

- 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

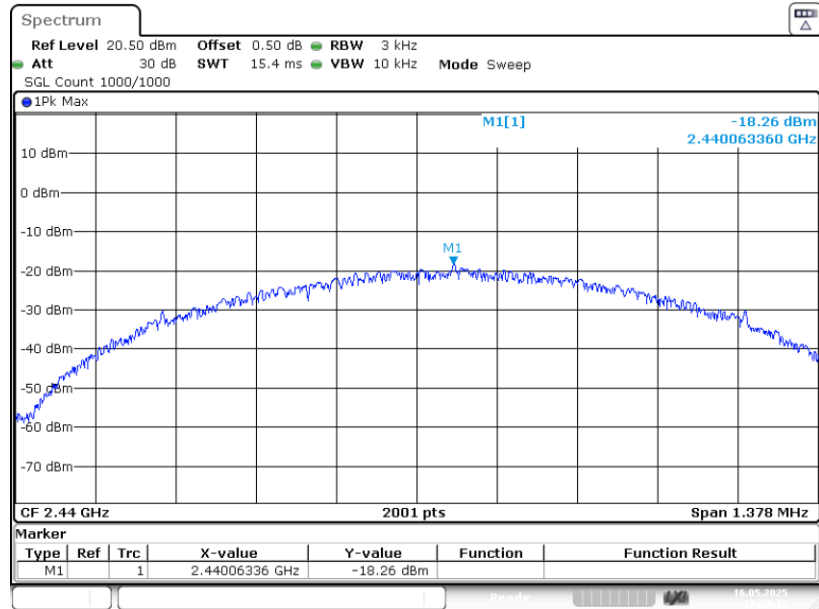
Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-05-16	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C Humi.: 56% Atm :100.3kPa
Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	2402	-19.8	≤8.00
	2440	-18.26	≤8.00
	2480	-18.03	≤8.00
BLE 2Mbps	2402	-24.56	≤8.00
	2440	-23.13	≤8.00
	2480	-23.2	≤8.00

BLE 1Mbps_Lowest Channel



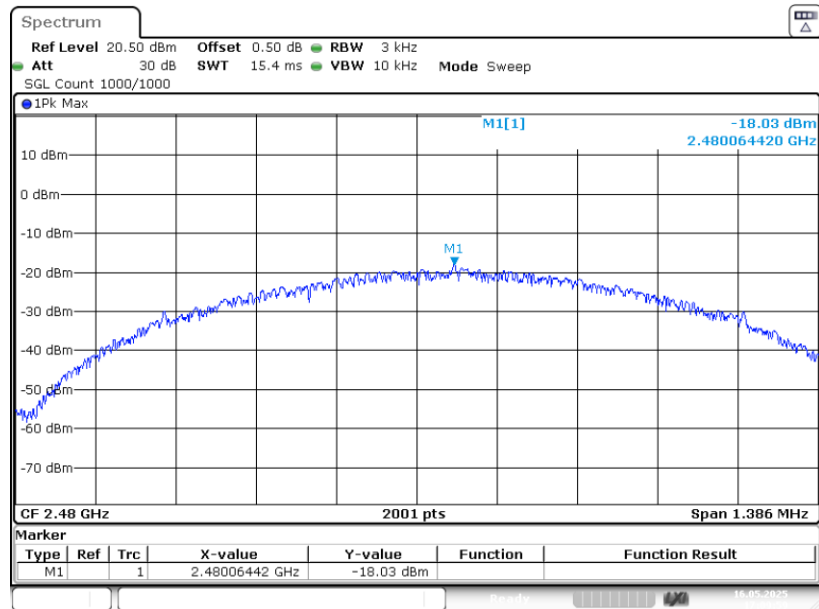
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
Date: 16.MAY.2025 17:04:49

BLE 1Mbps_Middle Channel



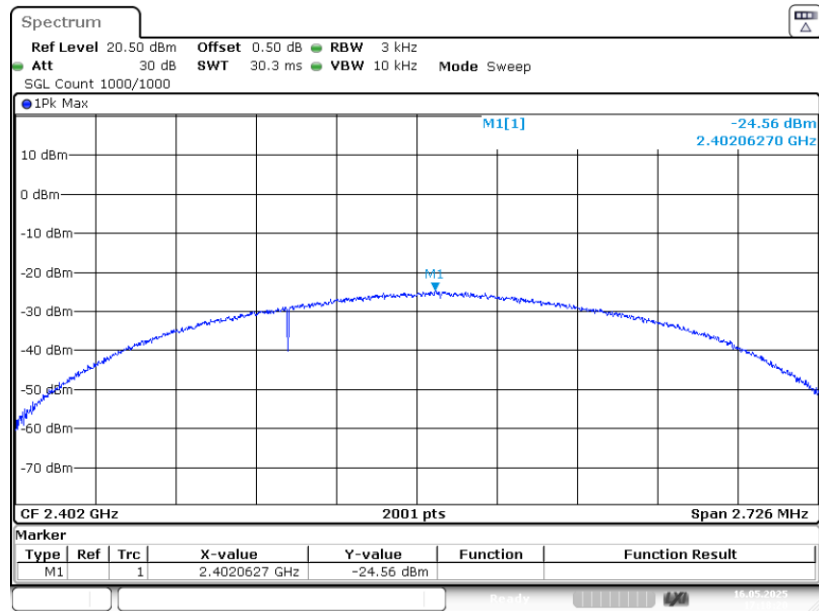
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:07:15

BLE 1Mbps_Highest Channel



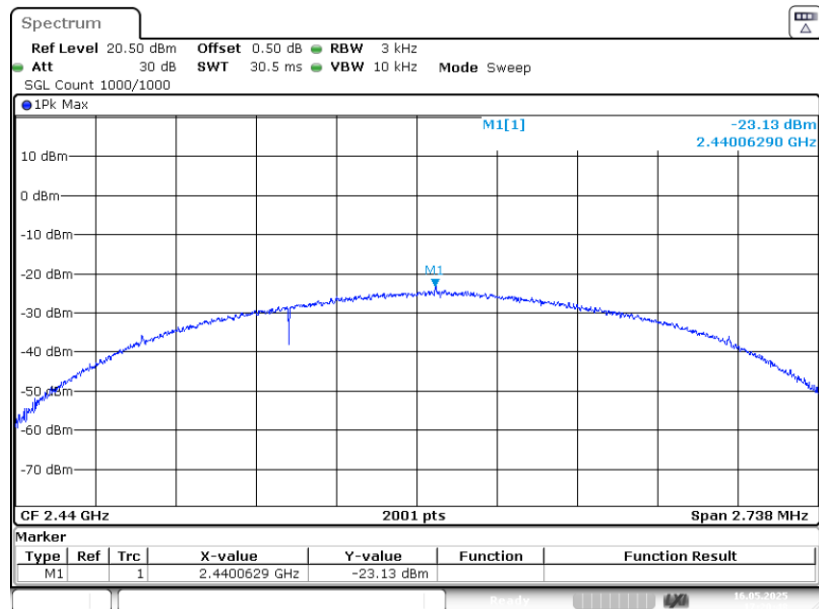
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:09:58

BLE 2Mbps_Lowest Channel



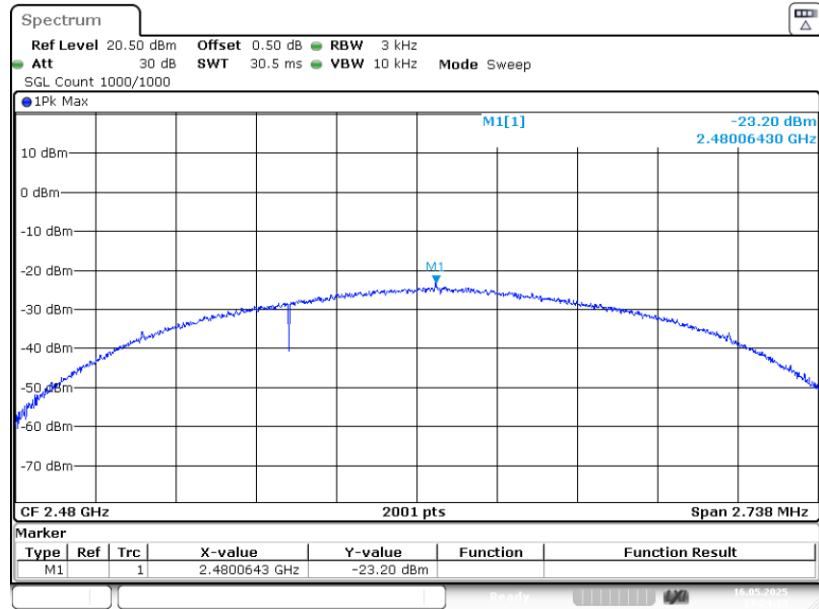
ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:18:20

BLE 2Mbps_Middle Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:20:48

BLE 2Mbps_Highest Channel



ProjectNo.:2507S37254E-RF Tester:Braylon Ma
 Date: 16.MAY.2025 17:24:14

EUT PHOTOGRAPHS

Please refer to the attachment 2507S37254E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507S37254E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507S37254E-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 *******