

TEST REPORT

Applicant Name : Shenzhen wanbo Technology Co., Ltd.
Address : 4th Floor, Building 1, Chuangjian Phase 2 Industrial Park, Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen, China
Report Number: 2504S29007E-RF-00A-M1
FCC ID: 2A7PI-WH-8210

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Remote Control
Model No.: WH-8210_BLE
Trade Mark: N/A
Date Received: 2025-04-09
Date of Test: 2025-04-20 to 2025-04-23
Report Date: 2025-05-12

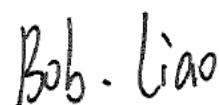
Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:



Matt Liang
EMC Engineer

Approved By:



Bob Liao
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked “#” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked.
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504S29007E-RF-00A	Original Report	2025-04-28
Rev.01	2504S29007E-RF-00A-M1	Corrected description of report template.	2025-05-12

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Remote Control
Tested Model	WH-8210_BLE
Frequency Range	BLE 1M: 2402-2480MHz
Maximum Conducted Peak Output Power	-0.02dBm
Modulation Technique	GFSK
Antenna Specification [#]	PCB Antenna:1.92dBi (It is provided by the applicant.)
Voltage Range [#]	DC 3V from 2*AAA battery
Sample Serial Number	3150-1(RE), 3150-2 (RF Conducted Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition
Note: The device is battery powered.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, 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.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01.

Measurement Uncertainty

Parameter	Uncertainty	
Occupied Channel Bandwidth	5%	
RF Frequency	0.064×10^{-7}	
RF output power, conducted	0.3 dB	
Unwanted Emission, conducted	1.2 dB	
Emissions, Radiated	9kHz - 30MHz	2.1 dB
	30MHz - 1GHz	4.3 dB
	1GHz - 18GHz	4.9 dB
	18GHz - 26.5GHz	5.2 dB
Temperature	1°C	
Humidity	7%	
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

Description of Test Configuration

For BLE, 40 channels are provided to testing:

Channel	Freq. (MHz)						
1	2402	11	2422	21	2442	31	2462
2	2404	12	2424	22	2444	32	2464
...
...
9	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

EUT was tested with Channel 0, 19 and 39.

EUT Exercise Software and Power Level[#]

Exercise Software:	No software, test in manual button set frequency which switch channel by button.
Power Level:	Default

Note: The information in the above table is provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

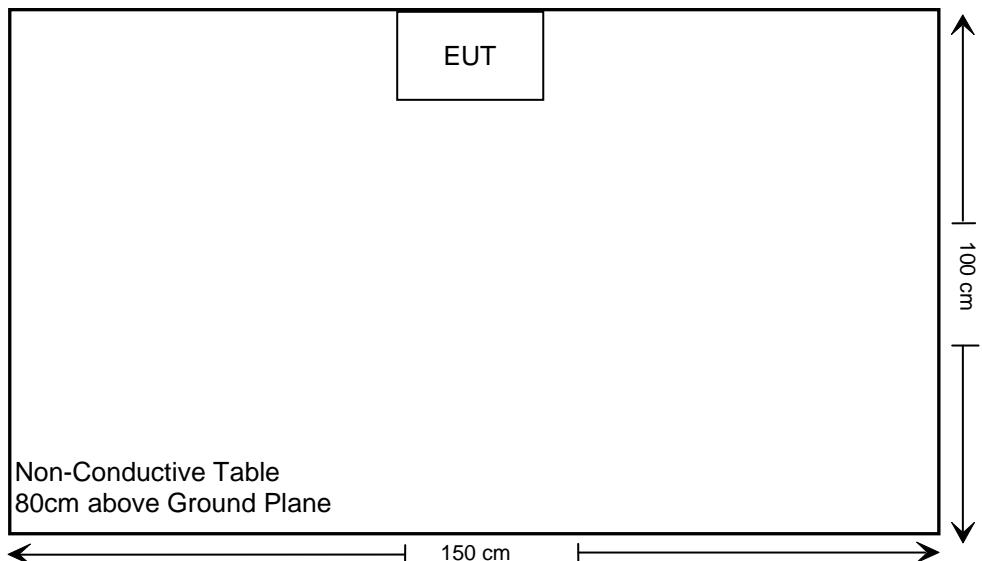
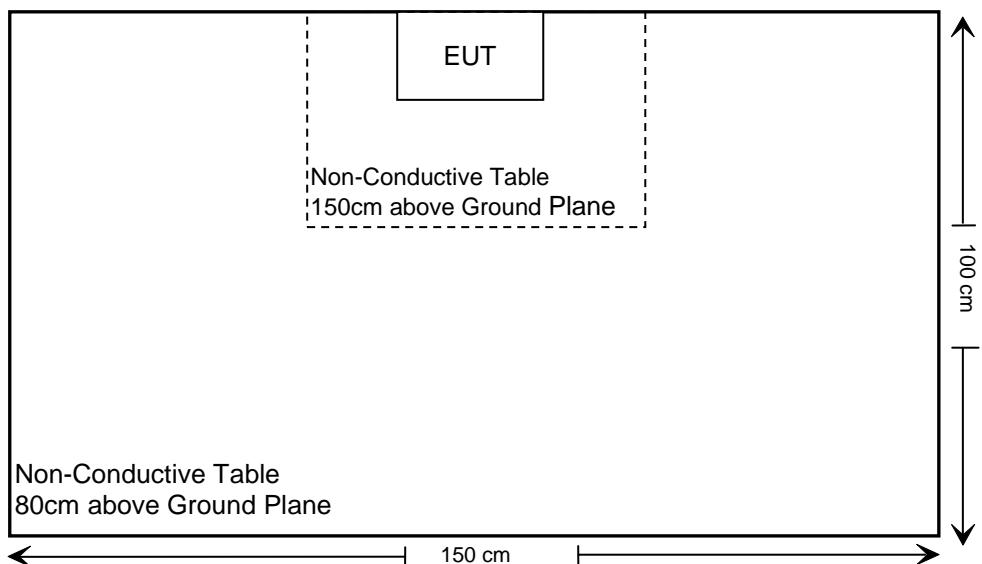
No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Guangzhou Tiger Head Battery Group Co., Ltd.	zinc-manganese series of batteries*2	R03 SIZE AAA 1.5V	No.1764C

External I/O Cable

Cable Description	Shielding Type	Length (m)	From Port	To
/	/	/	/	/

Block Diagram of Test Setup**For Radiated Emission Below 1GHz:****For Radiated Emission Above 1GHz:**

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliance
§15.247(a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

Note 1: Not Applicable- The device is battery powered.

Note 2: For Radiated Spurious Emissions 9kHz~1GHz, the maximum output power mode and channel was tested.

Note 3: For Radiated Spurious Emissions, after pre-scan in the X, Y and Z axes of orientation, the worst case as setup photos was recorded.

Note 4: The cable loss is 0.5dB, which was added into the all RF test results.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Spurious Emission Test(Below 1GHz)					
Rohde & Schwarz	Test Receiver	ESR	102725	2024/11/08	2025/11/07
SONOMA INSTRUMENT	Amplifier	310N	186131	2024/05/24	2025/05/23
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.13	N300	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.14	N800	2024/10/08	2025/10/07
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Above 1GHz)					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2024/10/08	2025/10/07
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2024/10/08	2025/10/07
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2024/10/08	2025/10/07
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2024/05/24	2025/05/23
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.11	N1000	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.19	N500	2024/10/08	2025/10/07
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2023/12/12	2026/12/11
BACL	Amplifier	BACL-1313-A1840	4012521	2024/07/05	2025/07/04
Unknown	RF Coaxial Cable	No.15	N600	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.16	N650	2024/10/08	2025/10/07
Test Software: e3 191218 (V9)					
RF Conducted test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101948	2024/10/08	2025/10/07
WEINSCHEL	10dB Attenuator	5324	AU 3842	2024/10/08	2025/10/07
Test Software: JDAutoTestSystem V1.0.0					

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

RF EXPOSURE

Applicable Standard

According to FCC §2.1093, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Test result

For worst case:

Frequency (MHz)	Tune-Up Conducted Output Power [#] (dBm)	Tune-Up Conducted Output Power [#] (mW)	Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
2480	0.5	1.12	5.0	0.4	3.0	Yes

Note: The tune-up conducted power is declared by the applicant.

Result: No SAR test is required.

FCC §15.203-ANTENNA REQUIREMENT

Applicable Standard

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

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

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

Antenna Connector Construction

The EUT has one internal antenna arrangement, which were permanently attached to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

Frequency Range	Antenna gain
2402-2480MHz	1.92dBi

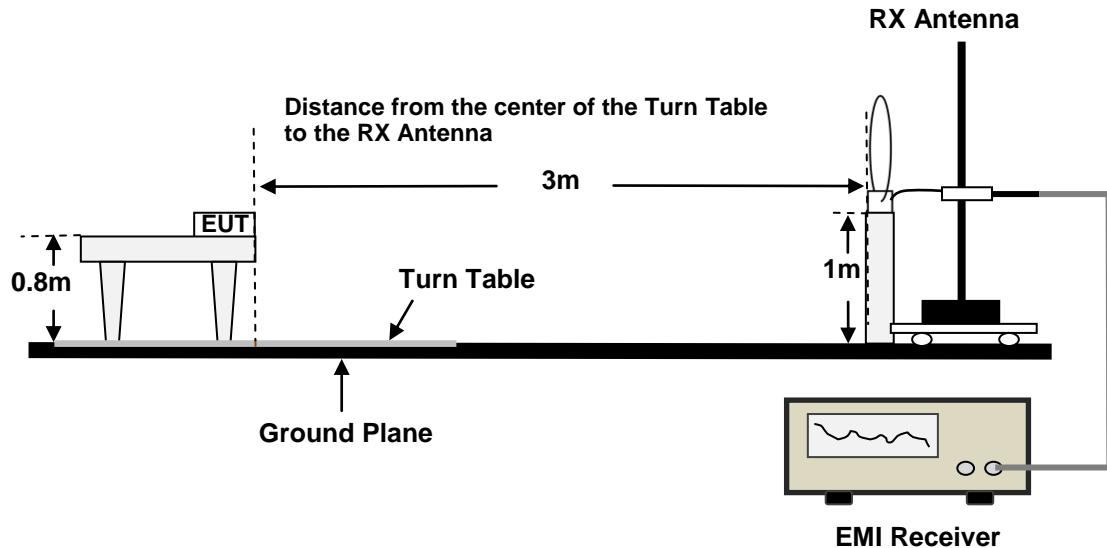
Result: Compliance.

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

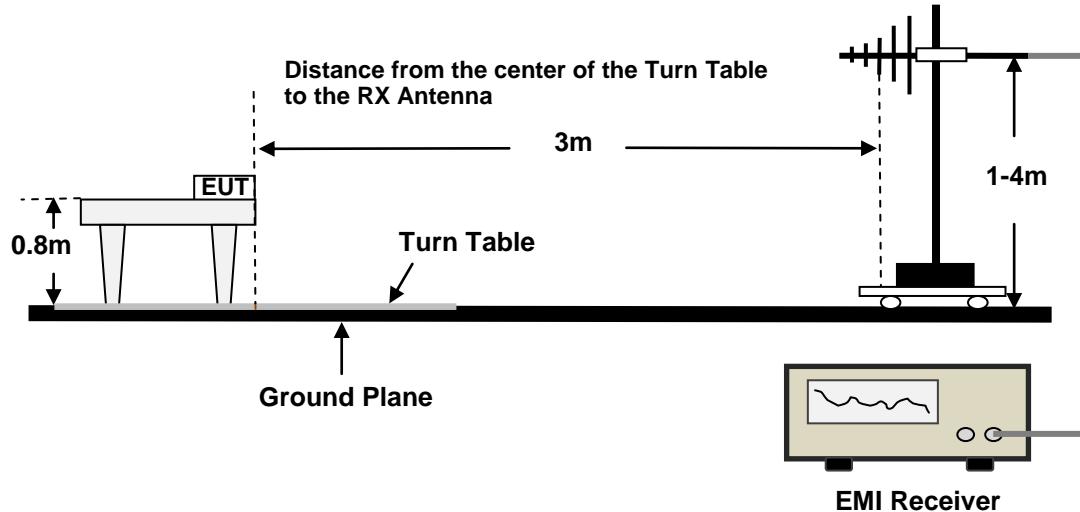
FCC §15.205; §15.209; §15.247(d)

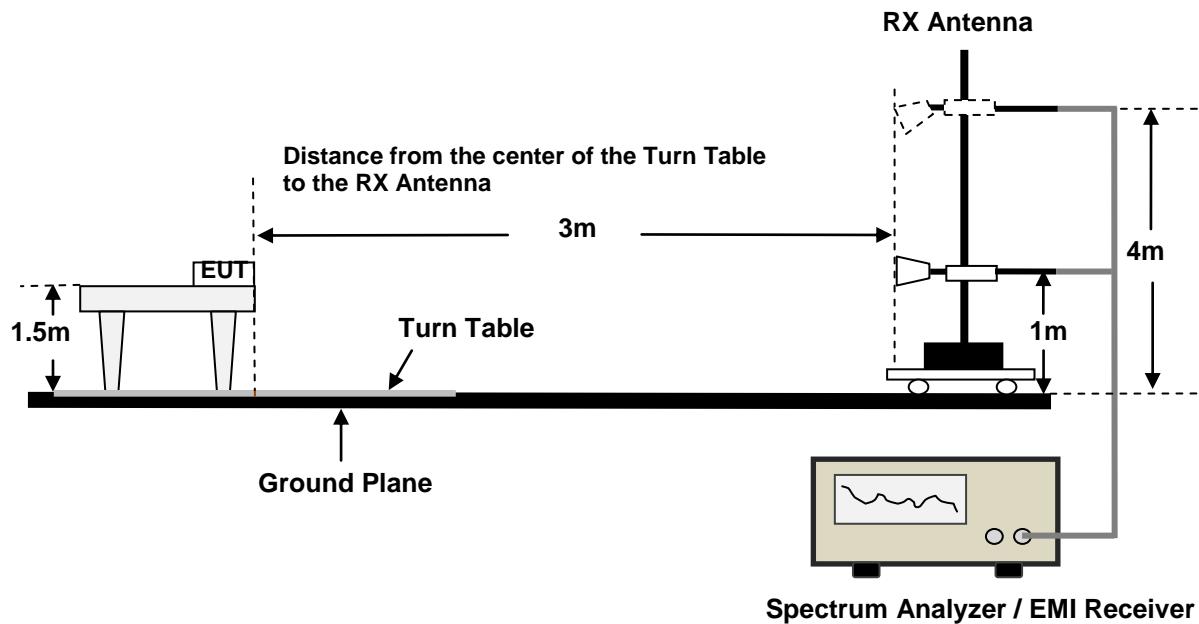
EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:

Boundary of the EUT, local AE and associated cabling and measurement distance for radiated emissions measurements:

The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See as below Figure C.1 and C.2.

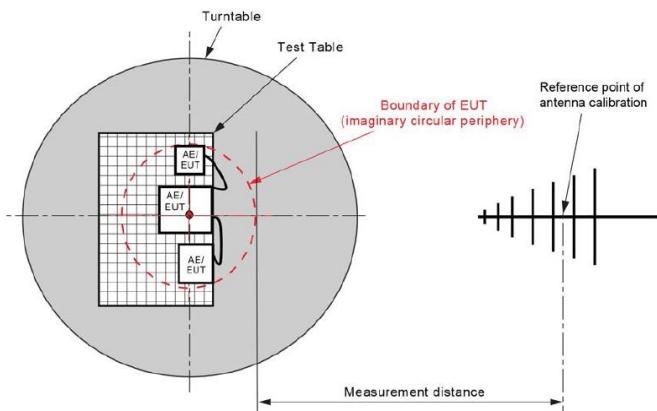


Figure C.1 – Measurement distance

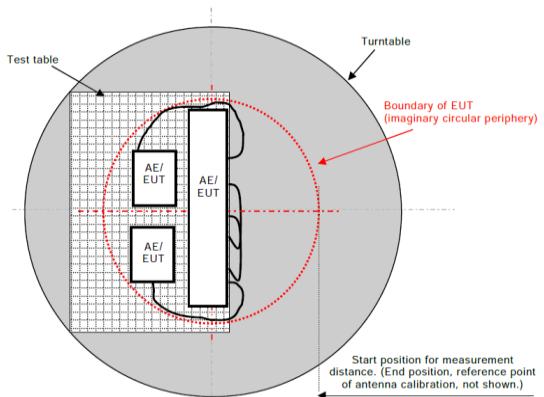


Figure C.2 – Boundary of EUT, Local AE and associated cabling

The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 25GHz.

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

9kHz - 1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9kHz - 150kHz	PK	0.3kHz	1kHz	/	PK
	QP/AV	/	/	200Hz	QP/AV
150kHz - 30MHz	PK	10kHz	30kHz	/	PK
	QP/AV	/	/	9kHz	QP/AV
30MHz - 1000MHz	PK	100kHz	300kHz	/	PK
	QP	/	/	120kHz	QP

1GHz - 25GHz:

Pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
Ave.	Peak	>98%	1MHz	3kHz
		<98%	1MHz	≥1/T, no less than 5 kHz

Final measurement for emission identified during the pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
Ave.	Peak	>98%	1MHz	3kHz

Note 1: T is minimum transmission duration

Note 2: Fundamental test with Filter Switch Unit.

Test Procedure

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

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to ANSI C63.10-2020, 9.2: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance).

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{D_{\text{Meas}}}{D_{\text{SpecLimit}}} \right)$$

where

- $E_{\text{SpecLimit}}$ is the field strength of the emission at the distance specified by the limit, in dBuV/m
- E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m
- D_{Meas} is the measurement distance, in m
- $D_{\text{SpecLimit}}$ is the distance specified by the limit, in m

Note 1: If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Note 2: For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

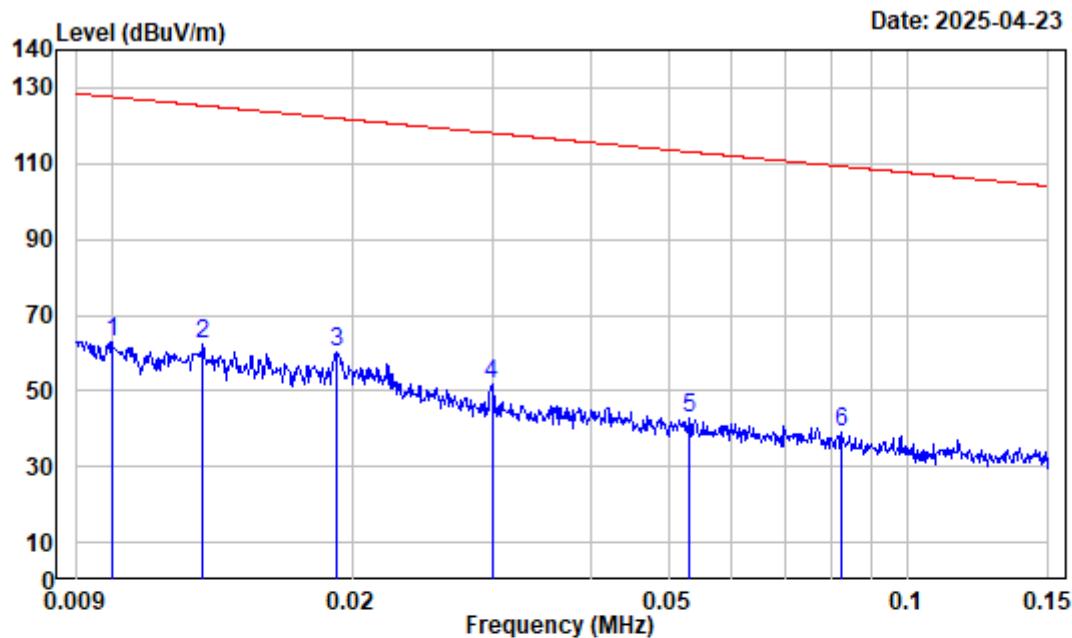
9kHz-1GHz

Environmental Conditions

Temperature:	23 °C
Relative Humidity:	55 %
ATM Pressure:	101.3 kPa
Test Engineer:	Roger Ling
Test Date:	2025-04-23
EUT Operation Mode:	BLE Transmitting

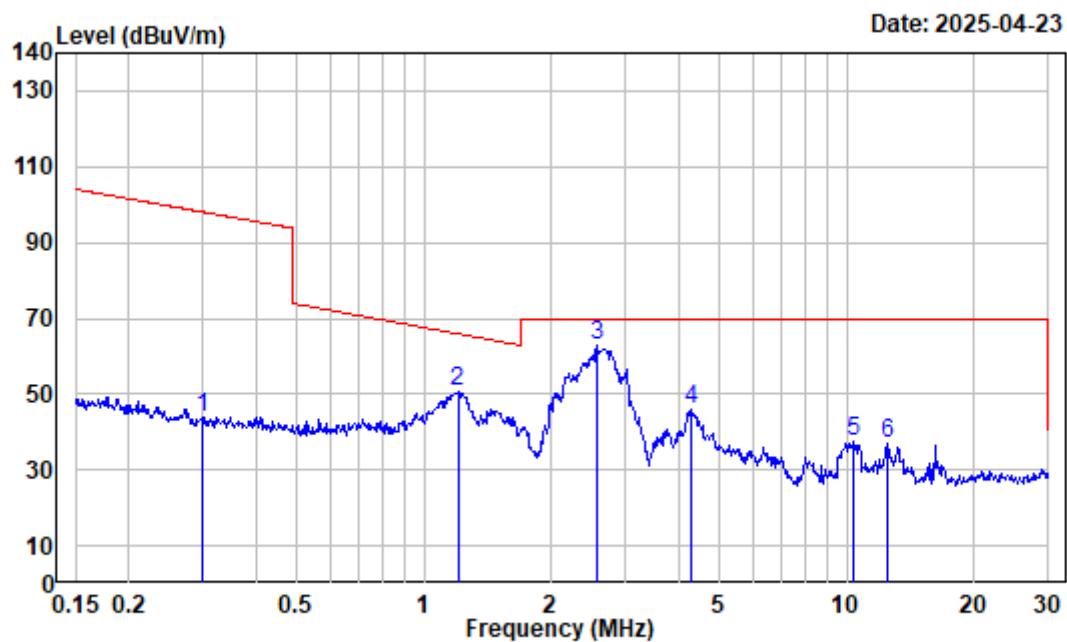
Test Result: Compliance, please refer to the below data.

Note: The maximum output power mode and channel: BLE 1M Low Channel was tested.

9kHz~30MHz:

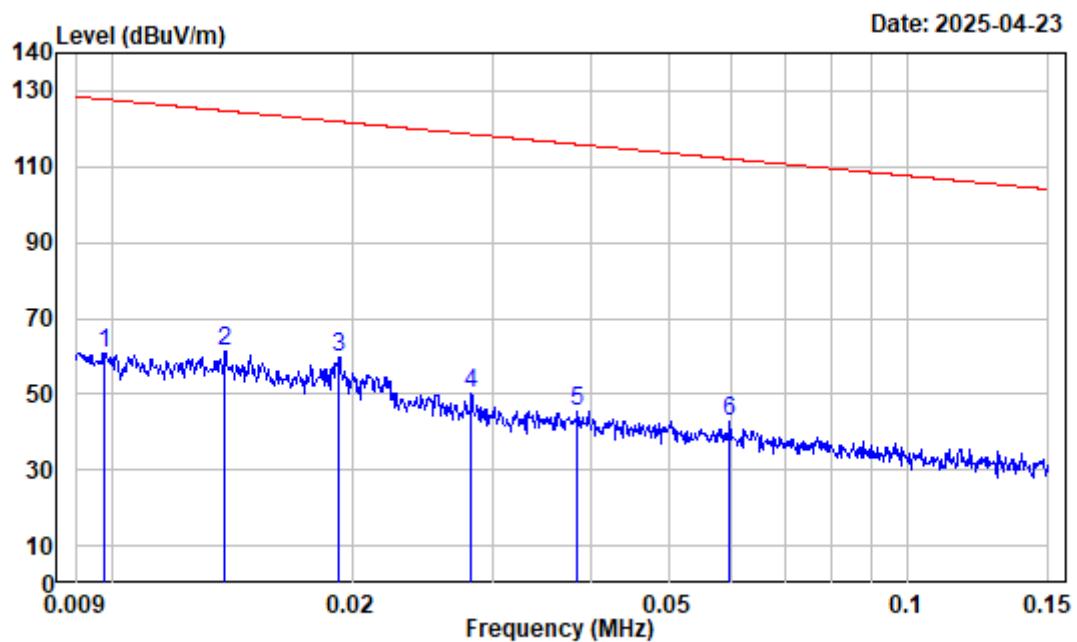
Site : Chamber
Condition : 3m
Project No. : 2504S29007E-RF Tester:Roger Ling
Polarization : Parallel
Test Mode : BLE Transmitting
Receiver Setting: RBW:300Hz VBW:1kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	
1	0.010	35.84	27.12	62.96	127.62	-64.66	Peak
2	0.013	34.49	27.68	62.17	125.32	-63.15	Peak
3	0.019	31.77	28.20	59.97	121.97	-62.00	Peak
4	0.030	26.94	25.02	51.96	118.06	-66.10	Peak
5	0.053	22.38	20.61	42.99	113.12	-70.13	Peak
6	0.082	18.28	20.97	39.25	109.29	-70.04	Peak



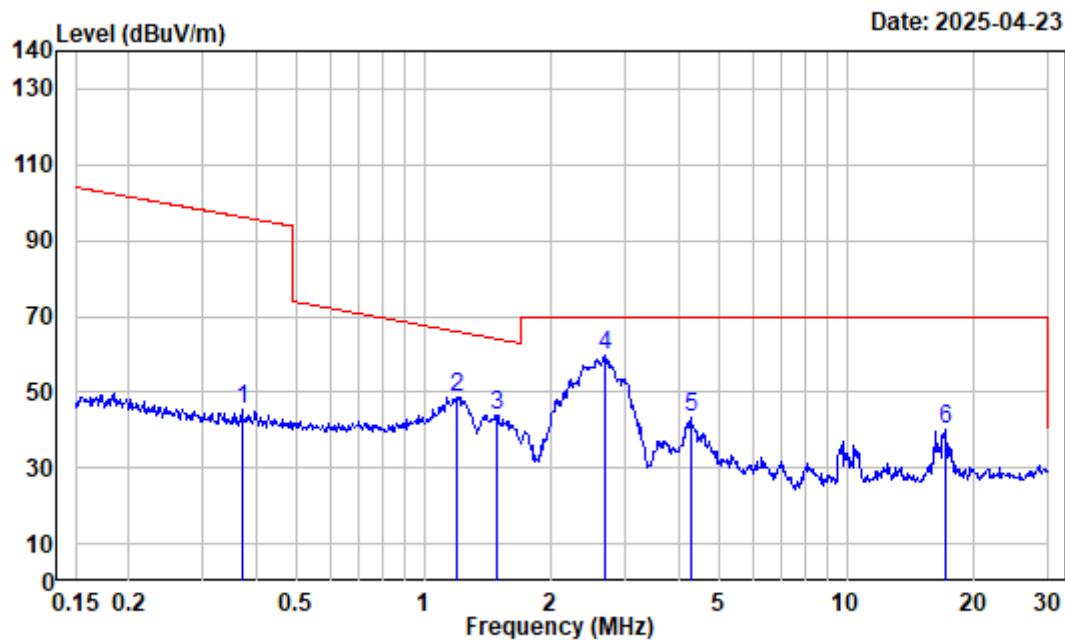
Site : Chamber
Condition : 3m
Project No. : 2504S29007E-RF Tester:Roger Ling
Polarization : Parallel
Test Mode : BLE Transmitting
Receiver Setting: RBW:10KHz VBW:30kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	0.299	7.32	36.75	44.07	98.10	-54.03	Peak
2	1.203	-2.57	53.08	50.51	65.83	-15.32	Peak
3	2.567	-5.64	68.74	63.10	69.54	-6.44	Peak
4	4.292	-6.30	52.11	45.81	69.54	-23.73	Peak
5	10.397	-5.26	42.55	37.29	69.54	-32.25	Peak
6	12.516	-4.73	41.60	36.87	69.54	-32.67	Peak



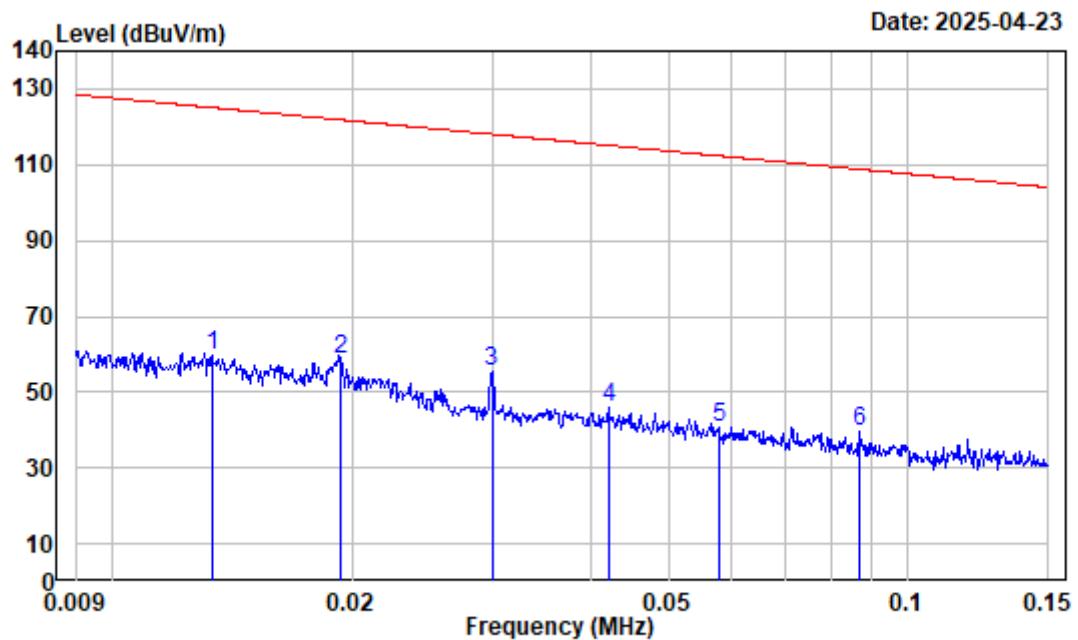
Site : Chamber
Condition : 3m
Project No. : 2504S29007E-RF Tester:Roger Ling
Polarization : Perpendicular
Test Mode : BLE Transmitting
Receiver Setting: RBW:300Hz VBW:1kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.010	36.02	24.88	60.90	127.81	-66.91	Peak
2	0.014	34.10	27.00	61.10	124.76	-63.66	Peak
3	0.019	31.70	27.97	59.67	121.90	-62.23	Peak
4	0.028	27.70	22.70	50.40	118.57	-68.17	Peak
5	0.038	25.20	20.41	45.61	115.91	-70.30	Peak
6	0.060	21.44	21.23	42.67	112.10	-69.43	Peak



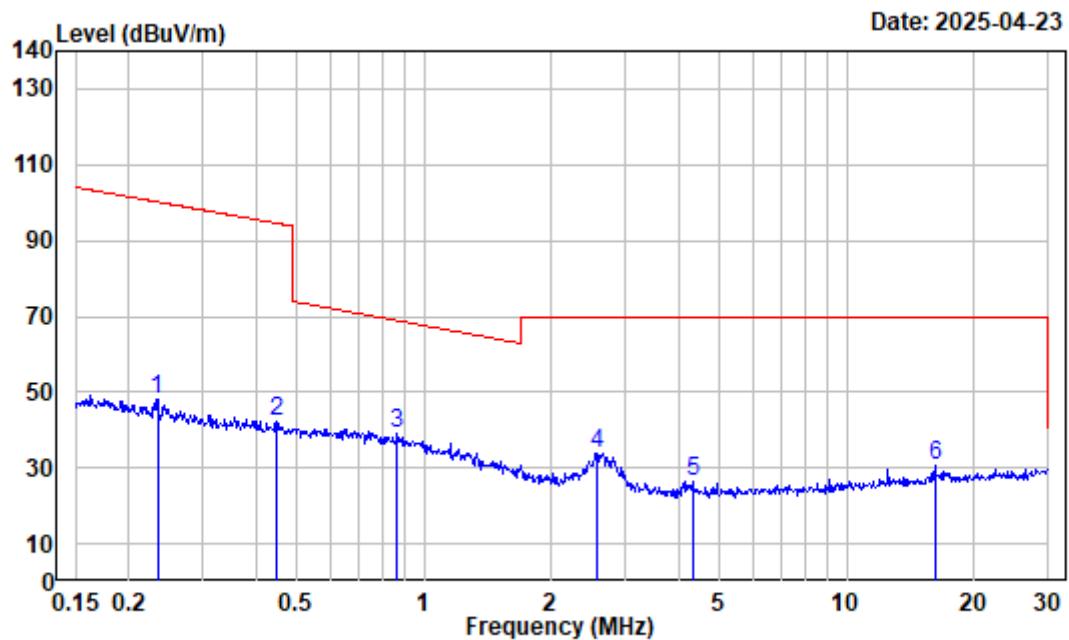
Site : Chamber
Condition : 3m
Project No. : 2504S29007E-RF Tester:Roger Ling
Polarization : Perpendicular
Test Mode : BLE Transmitting
Receiver Setting: RBW:10KHz VBW:30kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	0.371	5.85	39.58	45.43	96.21	-50.78	Peak
2	1.191	-2.53	51.25	48.72	65.92	-17.20	Peak
3	1.495	-3.60	47.67	44.07	63.90	-19.83	Peak
4	2.678	-5.69	65.22	59.53	69.54	-10.01	Peak
5	4.269	-6.30	49.62	43.32	69.54	-26.22	Peak
6	17.109	-3.85	43.90	40.05	69.54	-29.49	Peak



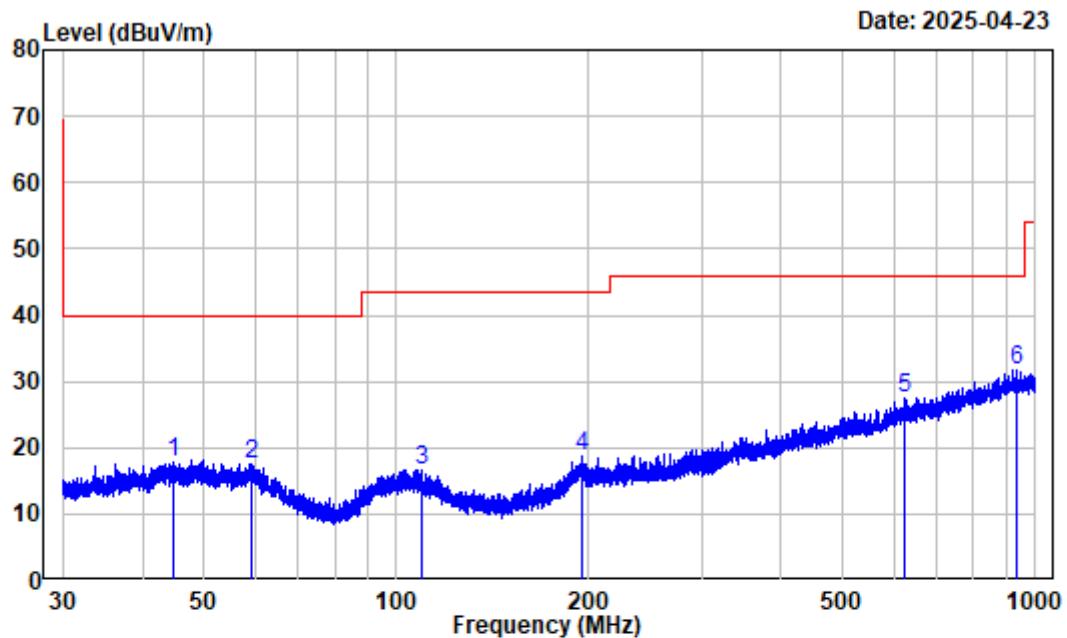
Site : Chamber
Condition : 3m
Project No. : 2504S29007E-RF Tester:Roger Ling
Polarization : Ground-parallel
Test Mode : BLE Transmitting
Receiver Setting: RBW:300Hz VBW:1kHz

Freq Factor	Read		Limit		Over	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.013	34.34	25.18	59.52	125.10	-65.58 Peak
2	0.019	31.65	27.19	58.84	121.85	-63.01 Peak
3	0.030	26.94	28.63	55.57	118.06	-62.49 Peak
4	0.042	24.45	21.66	46.11	115.13	-69.02 Peak
5	0.058	21.69	19.23	40.92	112.37	-71.45 Peak
6	0.087	17.83	21.60	39.43	108.85	-69.42 Peak



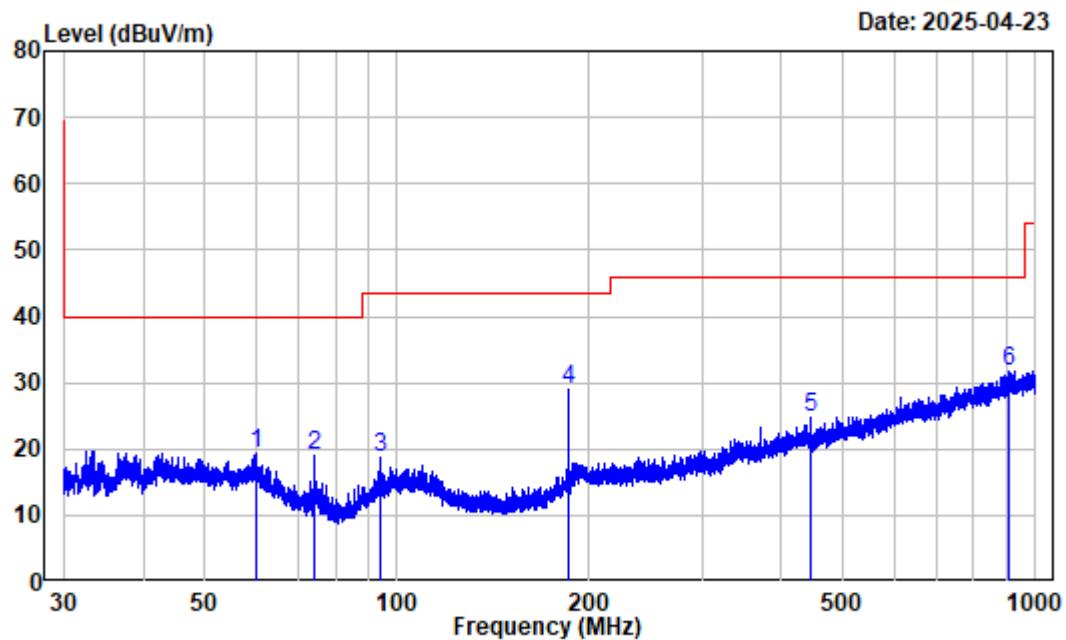
Site : Chamber
Condition : 3m
Project No. : 2504S29007E-RF Tester:Roger Ling
Polarization : Ground-parallel
Test Mode : BLE Transmitting
Receiver Setting: RBW:10KHz VBW:30kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	0.234	10.28	37.80	48.08	100.22	-52.14	Peak
2	0.449	4.31	37.79	42.10	94.56	-52.46	Peak
3	0.866	-0.79	39.70	38.91	68.74	-29.83	Peak
4	2.581	-5.65	39.52	33.87	69.54	-35.67	Peak
5	4.315	-6.30	32.66	26.36	69.54	-43.18	Peak
6	16.226	-3.87	34.51	30.64	69.54	-38.90	Peak

30MHz~1GHz:

Site : Chamber
Condition : 3m HORIZONTAL
Project No. : 2504S29007E-RF Tester:Roger Ling
Test Mode : BLE Transmitting
Receiver Setting: RBW:100KHz VBW:300kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	
1	44.587	-10.16	27.91	17.75	40.00	-22.25	Peak
2	59.103	-10.43	28.02	17.59	40.00	-22.41	Peak
3	109.460	-11.72	28.33	16.61	43.50	-26.89	Peak
4	195.137	-10.06	28.87	18.81	43.50	-24.69	Peak
5	624.804	-1.82	29.42	27.60	46.00	-18.40	Peak
6	933.089	1.94	29.90	31.84	46.00	-14.16	Peak



Site : Chamber
Condition : 3m VERTICAL
Project No. : 2504S29007E-RF Tester:Roger Ling
Test Mode : BLE Transmitting
Receiver Setting: RBW:100KHz VBW:300kHz

Freq Factor	Read Level		Limit Level		Over Line Limit		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	60.175	-10.80	30.18	19.38	40.00	-20.62	Peak
2	74.265	-16.03	35.04	19.01	40.00	-20.99	Peak
3	94.387	-12.64	31.40	18.76	43.50	-24.74	Peak
4	185.625	-11.68	40.70	29.02	43.50	-14.48	Peak
5	445.828	-5.11	29.94	24.83	46.00	-21.17	Peak
6	908.471	1.88	29.86	31.74	46.00	-14.26	Peak

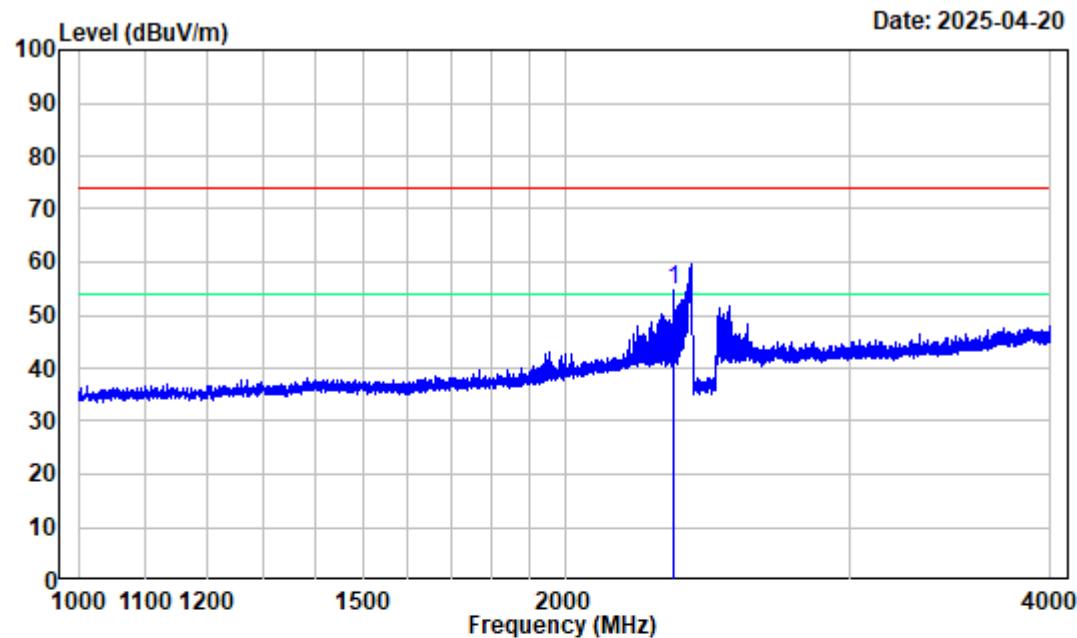
1GHz-25GHz**Environmental Conditions**

Temperature:	21.9 to 22.6 °C
Relative Humidity:	53 to 58 %
ATM Pressure:	101.3 kPa
Test Engineer:	Jimi.zheng
Test Date:	2025-04-20 to 2025-04-21
EUT Operation Mode:	Transmitting

Test Result: Compliance, please refer to the below data.

The maximum value of fundamental on the X-axis	97.01 dBuV/m
The maximum value of fundamental on the Y-axis	89.42 dBuV/m
The maximum value of fundamental on the Z-axis	84.49 dBuV/m
After pre-scan in the X, Y and Z axes of orientation, the worst case was recorded.	

Note: BLE 1M Middle channel and High channel 1GHz-4GHz Horizontal test without filter, and other used.

1GHz~4GHz:

Site : chamber

Condition : 3m HORIZONTAL

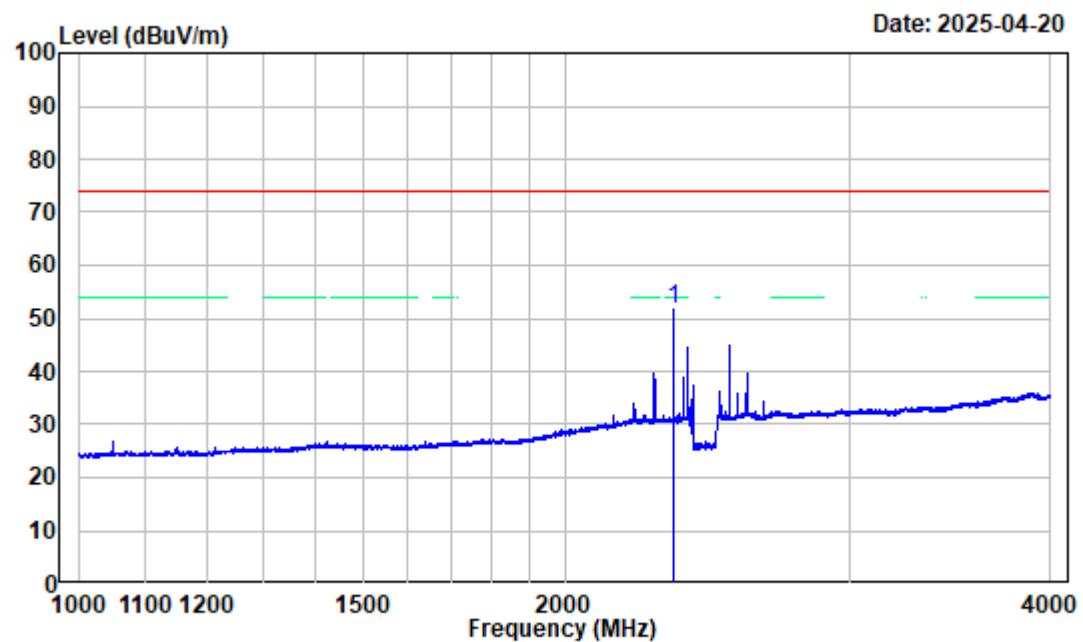
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M Low channel 2402MHz

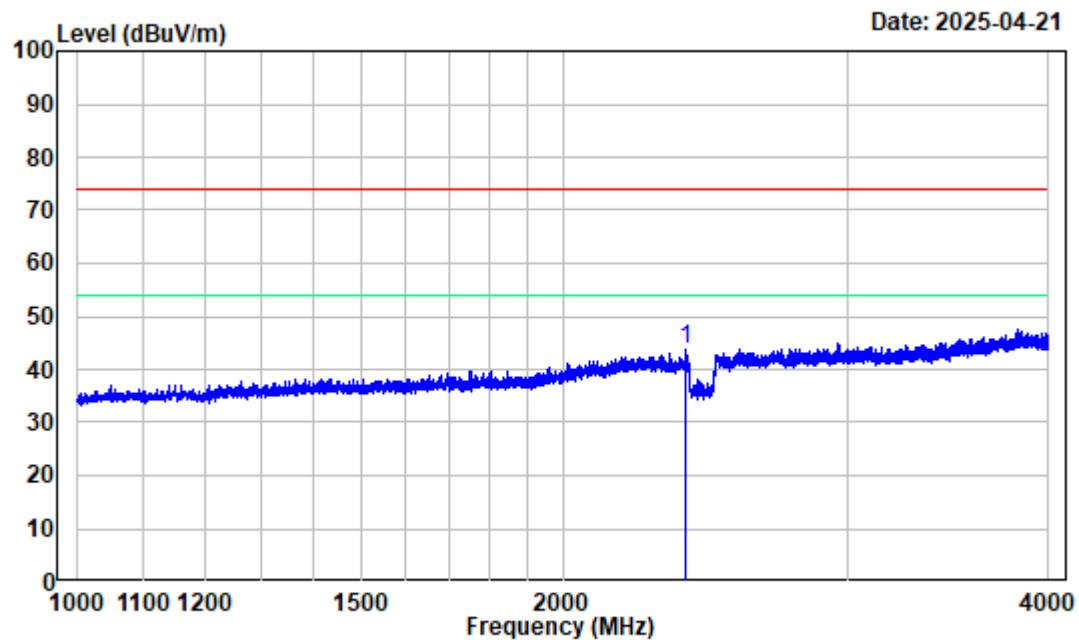
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m		
1	2338.000	-10.18	64.97	54.79	74.00	-19.21	Peak



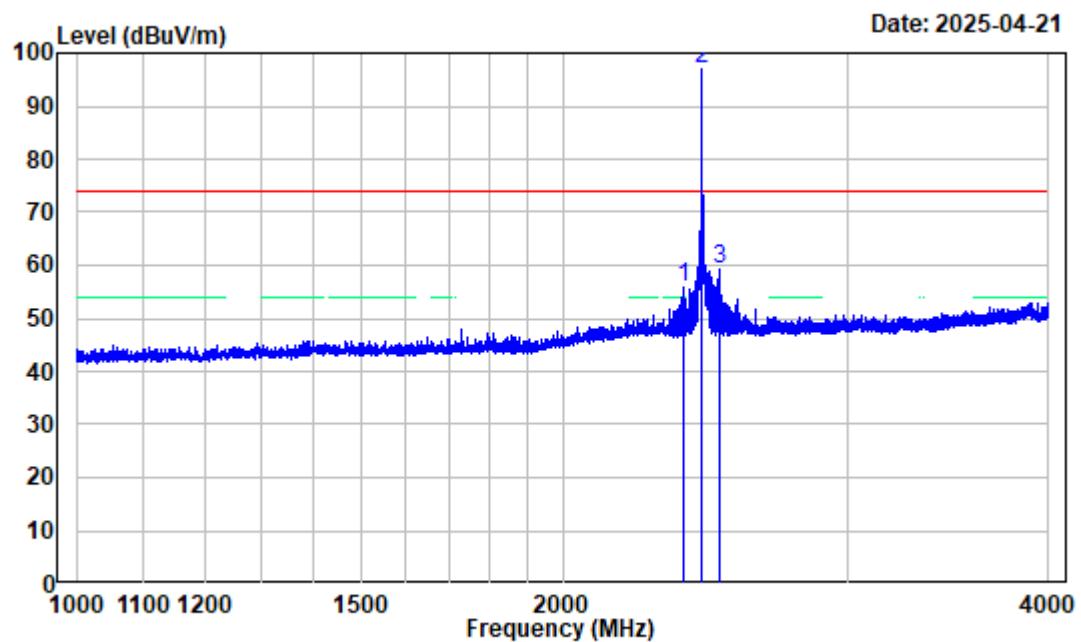
Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M Low channel 2402MHz
SA setting : Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	2338.000	-10.18	61.92	51.74	54.00	-2.26	Average



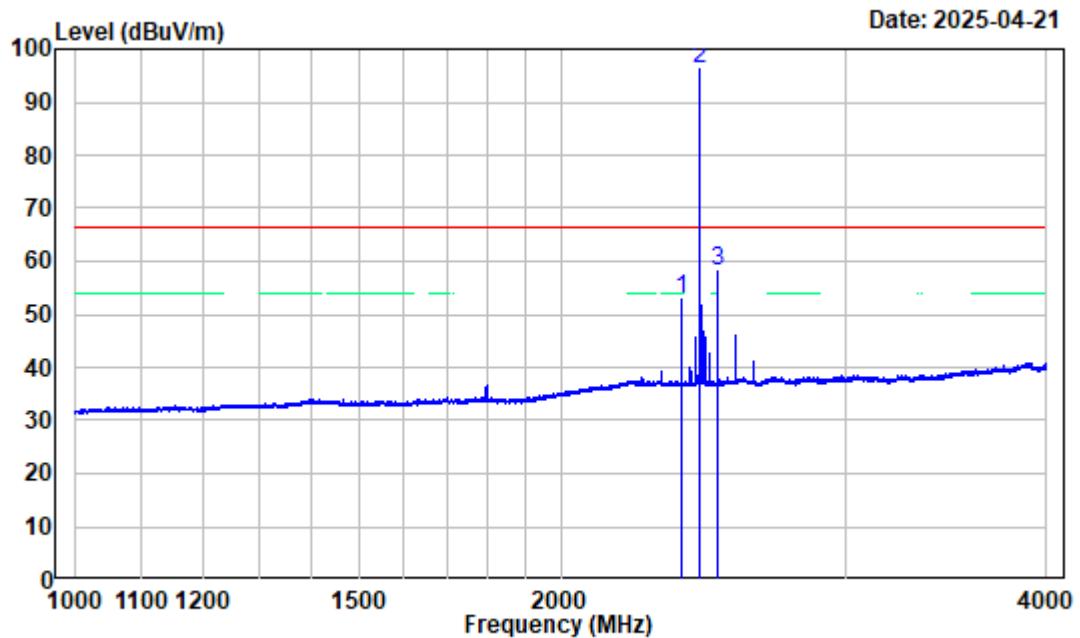
Site : chamber
Condition : 3m VERTICAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M Low channel 2402MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
		MHz	dB/m	dBuV	dBuV/m	dB	
1		2386.750	-10.26	54.10	43.84	74.00	-30.16 Peak



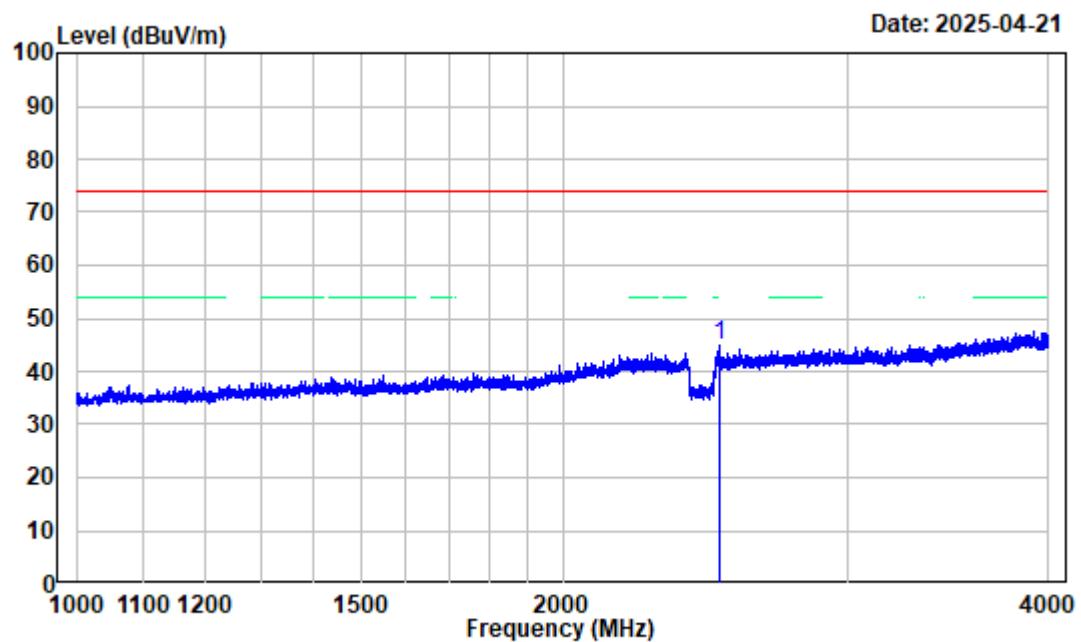
Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M Middle channel 2440MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	Level	dB _{uV}	Line	dB _{uV/m}
1	2375.875	-10.26	66.21	55.95	74.00	-18.05	Peak
2	2440.000	-10.21	107.22	97.01	116.20	-19.19	Peak
3	2504.500	-10.23	69.65	59.42	74.00	-14.58	Peak



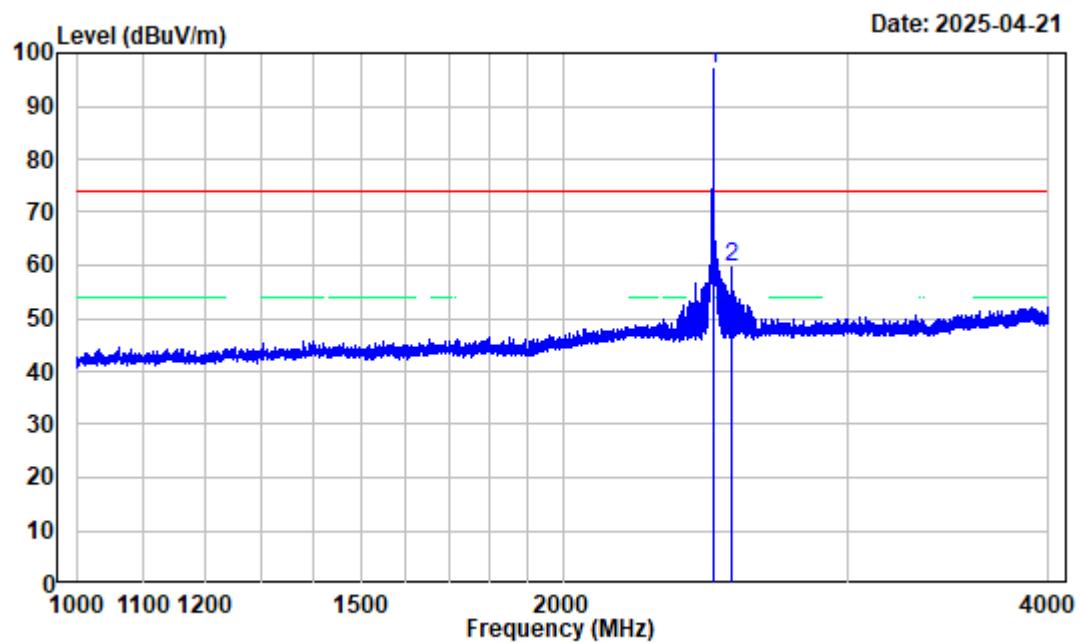
Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M Middle channel 2440MHz
SA setting : Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	
1	2375.875	-10.26	63.20	52.94	54.00	-1.06	Average
2	2440.000	-10.21	106.59	96.38	116.20	-19.82	Average
3	2504.125	-10.23	68.23	58.00	66.38	-8.38	Average



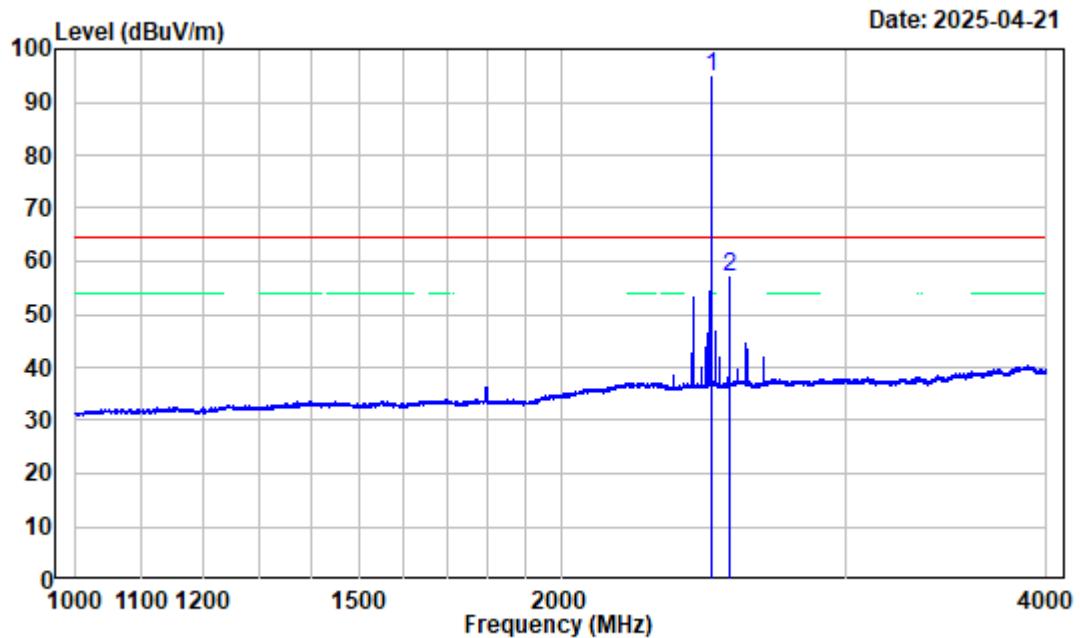
Site : chamber
Condition : 3m VERTICAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M Middle channel 2440MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
		MHz	dB/m	dBuV	dBuV/m	dB	
1		2503.750	-10.23	55.00	44.77	74.00	-29.23 Peak



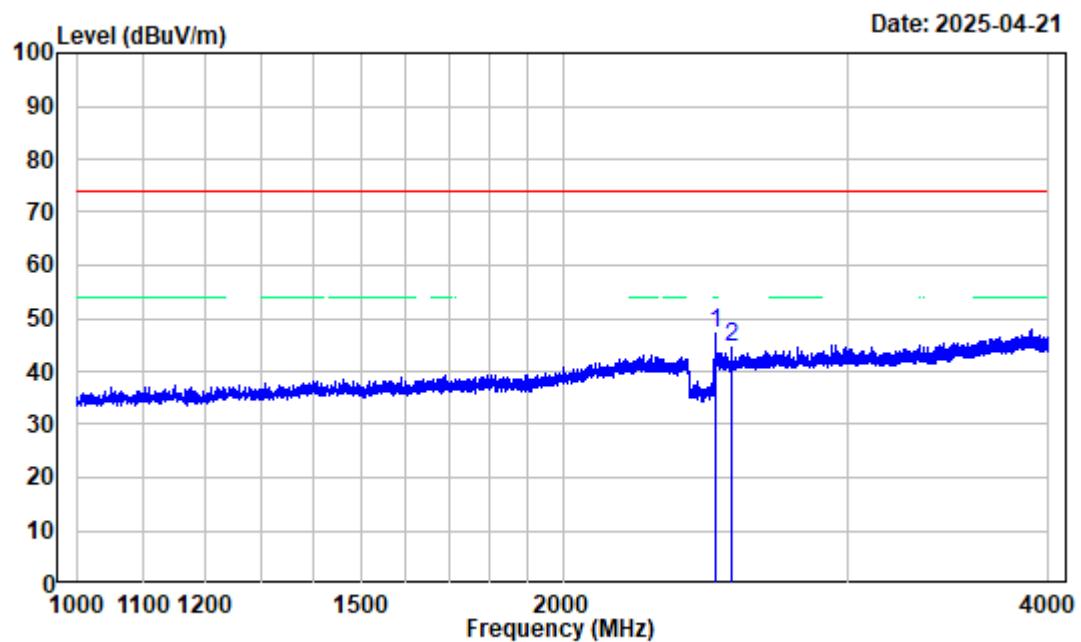
Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M High channel 2480MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	2480.125	-10.22	107.14	96.92	116.20	-19.28	Peak
2	2544.625	-10.15	69.82	59.67	74.00	-14.33	Peak



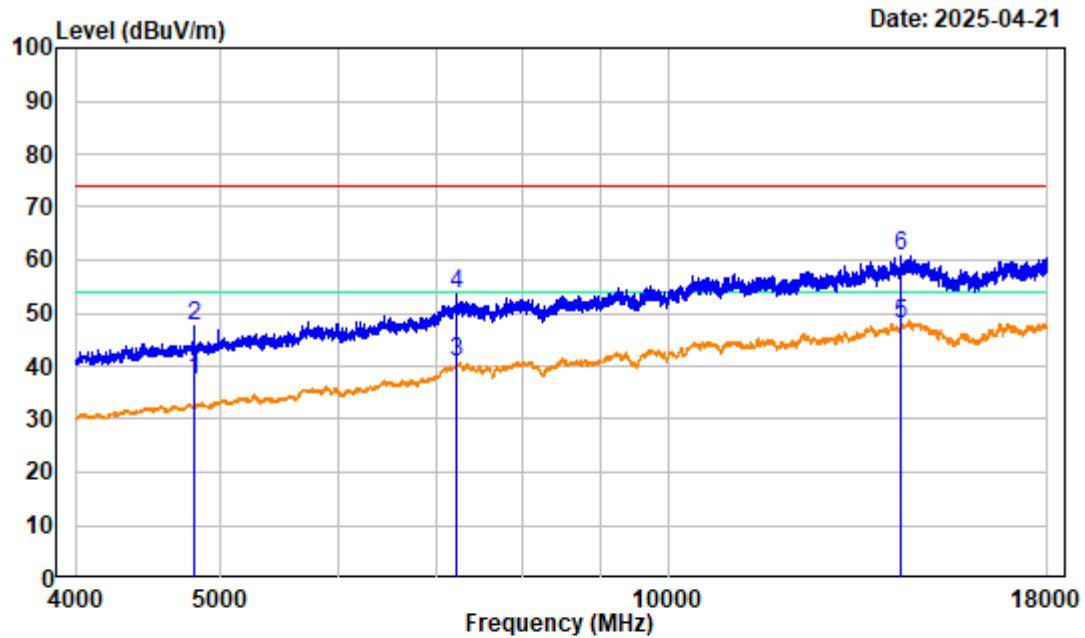
Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M High channel 2480MHz
SA setting : Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	2480.125	-10.22	104.83	94.61	116.20	-21.59	Average
2	2543.875	-10.15	67.17	57.02	64.61	-7.59	Average



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M High channel 2480MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over Line	Over Limit	Remark
		MHz	dB/m	dBuV	dBuV/m			
1	2486.125	-10.23	57.28	47.05	74.00	-26.95	Peak	
2	2544.250	-10.15	54.86	44.71	74.00	-29.29	Peak	

4GHz~18GHz:

Site : chamber

Condition : 3m HORIZONTAL

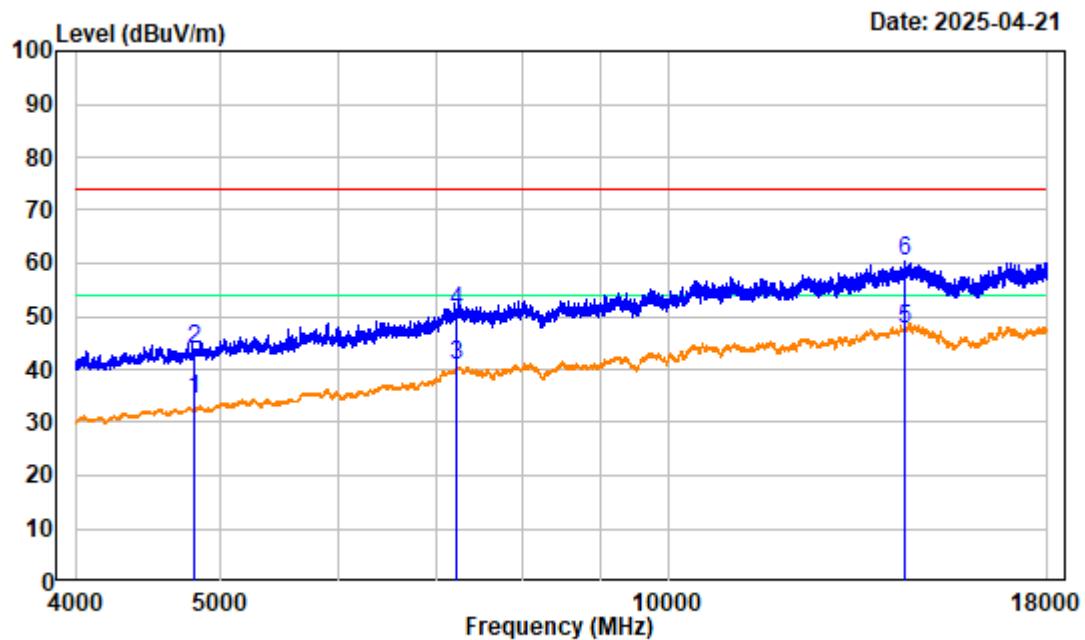
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M Low channel 2402MHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	Limit
1	4803.250	-6.59	44.12	37.53	54.00	-16.47	Average
2	4803.250	-6.59	54.22	47.63	74.00	-26.37	Peak
3	7206.000	-1.33	42.09	40.76	54.00	-13.24	Average
4	7206.000	-1.33	54.79	53.46	74.00	-20.54	peak
5	14354.750	8.77	39.05	47.82	54.00	-6.18	Average
6	14354.750	8.77	51.95	60.72	74.00	-13.28	Peak



Site : chamber

Condition : 3m VERTICAL

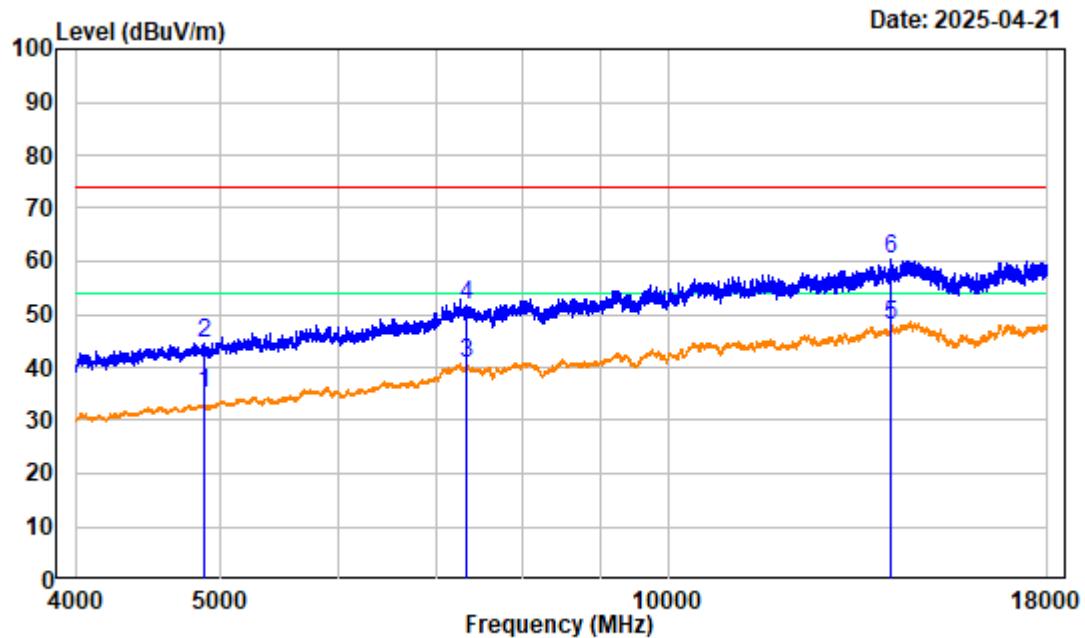
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M Low channel 2402MHz

SA setting : Peak:RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	4804.000	-6.59	40.84	34.25	54.00	-19.75	Average
2	4804.000	-6.59	50.54	43.95	74.00	-30.05	peak
3	7206.000	-1.33	42.02	40.69	54.00	-13.31	Average
4	7206.000	-1.33	52.28	50.95	74.00	-23.05	peak
5	14440.500	8.47	39.23	47.70	54.00	-6.30	Average
6	14440.500	8.47	52.03	60.50	74.00	-13.50	Peak



Site : chamber

Condition : 3m VERTICAL

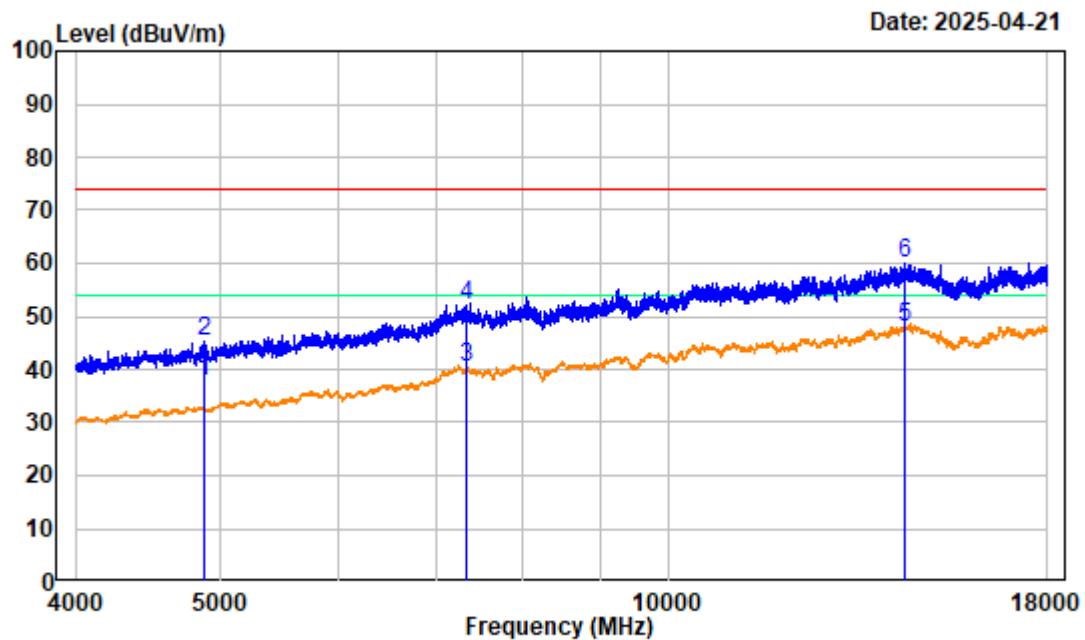
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M Middle channel 2440MHz

SA setting : Peak:RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	4880.000	-6.63	41.81	35.18	54.00	-18.82	Average
2	4880.000	-6.63	51.21	44.58	74.00	-29.42	peak
3	7320.000	-1.22	41.82	40.60	54.00	-13.40	Average
4	7320.000	-1.22	53.02	51.80	74.00	-22.20	peak
5	14136.000	7.94	39.80	47.74	54.00	-6.26	Average
6	14136.000	7.94	52.30	60.24	74.00	-13.76	Peak



Site : chamber

Condition : 3m HORIZONTAL

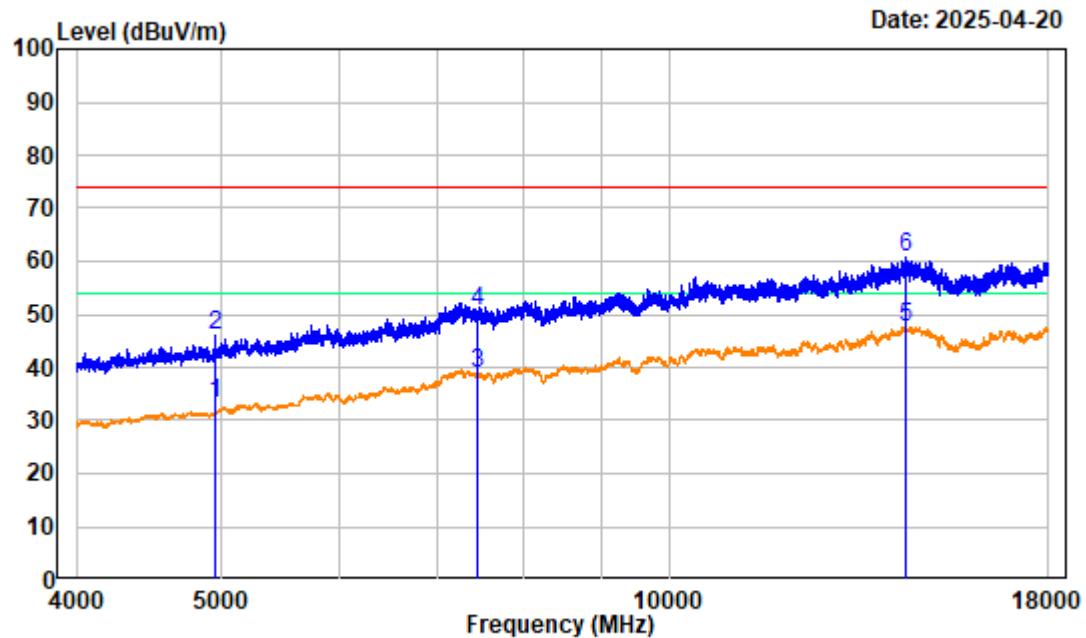
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M Middle channel 2440MHz

SA setting : Peak:RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	4880.000	-6.63	44.26	37.63	54.00	-16.37	Average
2	4880.000	-6.63	51.76	45.13	74.00	-28.87	peak
3	7320.000	-1.22	41.72	40.50	54.00	-13.50	Average
4	7320.000	-1.22	53.42	52.20	74.00	-21.80	peak
5	14451.000	8.47	39.31	47.78	54.00	-6.22	Average
6	14451.000	8.47	51.71	60.18	74.00	-13.82	Peak



Site : chamber

Condition : 3m VERTICAL

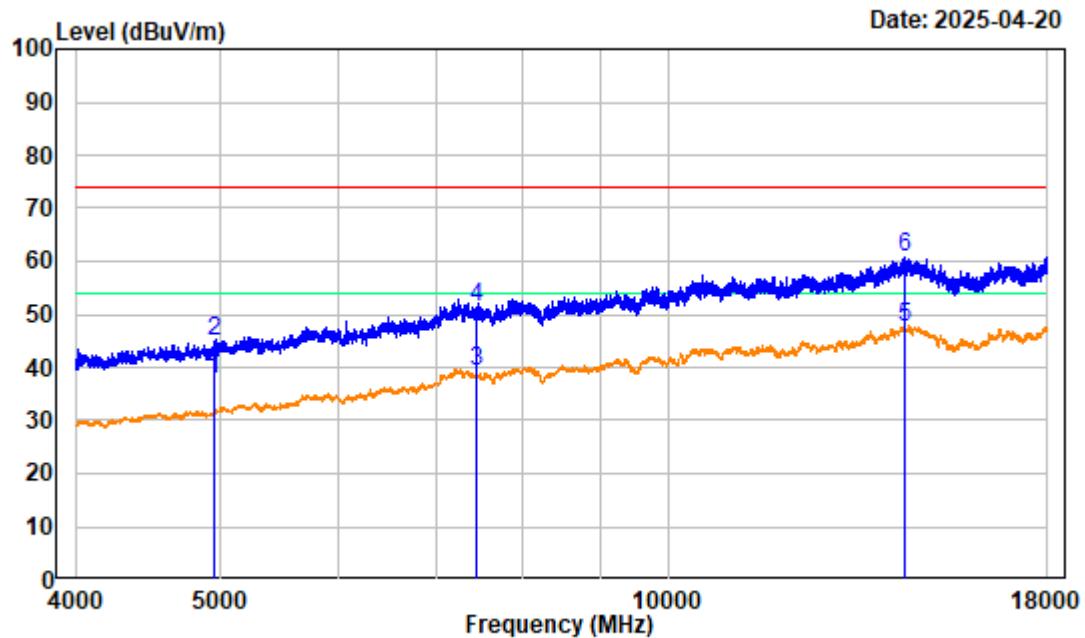
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M High channel 2480MHz

SA setting : Peak:RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	4960.000	-6.44	39.55	33.11	54.00	-20.89	Average
2	4960.000	-6.44	52.39	45.95	74.00	-28.05	peak
3	7440.000	-1.07	39.95	38.88	54.00	-15.12	Average
4	7440.000	-1.07	51.75	50.68	74.00	-23.32	peak
5	14416.000	8.46	39.13	47.59	54.00	-6.41	Average
6	14416.000	8.46	52.35	60.81	74.00	-13.19	Peak



Site : chamber

Condition : 3m HORIZONTAL

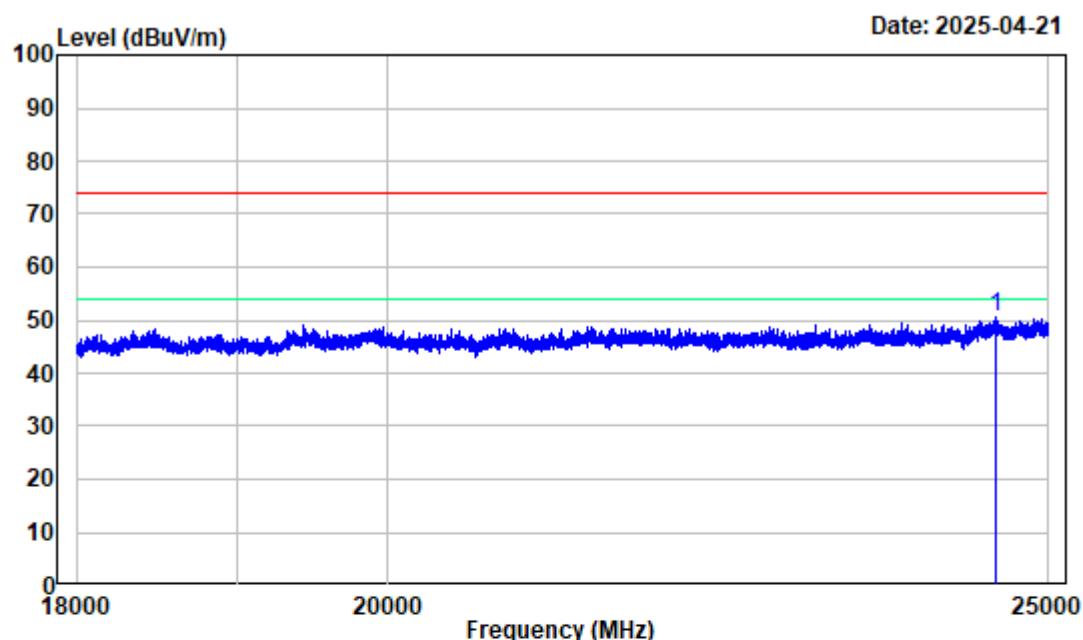
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M High channel 2480MHz

SA setting : Peak:RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		Level	Level	Line	Line		
1	4960.000	-6.44	44.00	37.56	54.00	-16.44	Average
2	4960.000	-6.44	51.31	44.87	74.00	-29.13	peak
3	7440.000	-1.07	40.29	39.22	54.00	-14.78	Average
4	7440.000	-1.07	52.29	51.22	74.00	-22.78	peak
5	14445.750	8.48	39.15	47.63	54.00	-6.37	Average
6	14445.750	8.48	52.24	60.72	74.00	-13.28	Peak

18GHz~25GHz:

Site : chamber

Condition : 3m HORIZONTAL

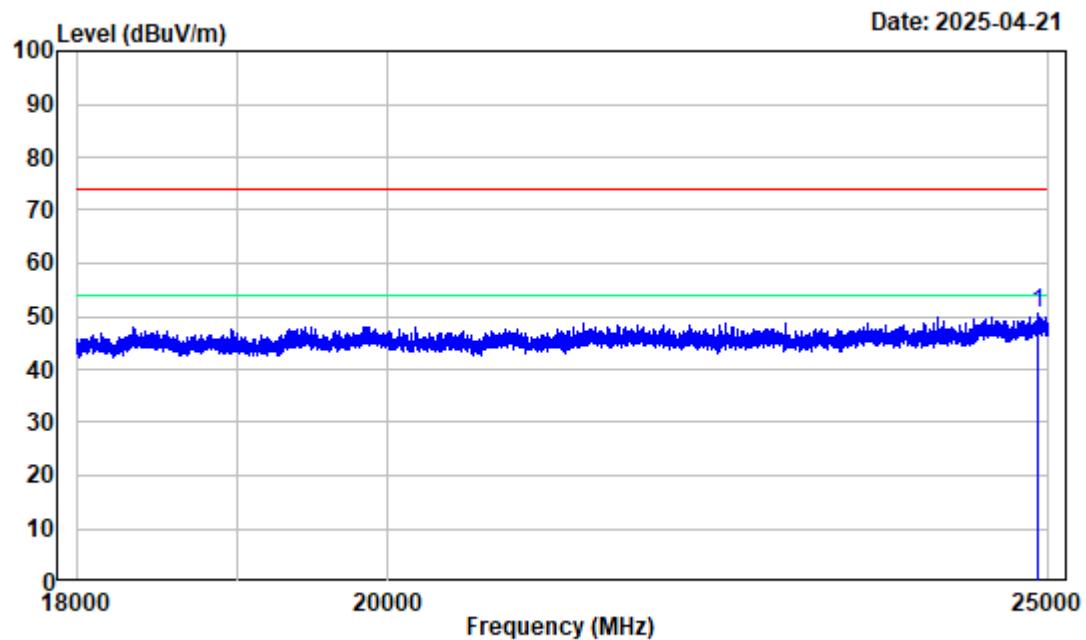
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester:Kevin Lv

Note : BLE 1M Low Channel 2402MHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

	Read	Limit	Over			
Freq	Factor	Level	Level	Line	Limit	Remark
1	24559.880	-0.40	50.81	50.41	74.00	-23.59 Peak



Site : chamber

Condition : 3m VERTICAL

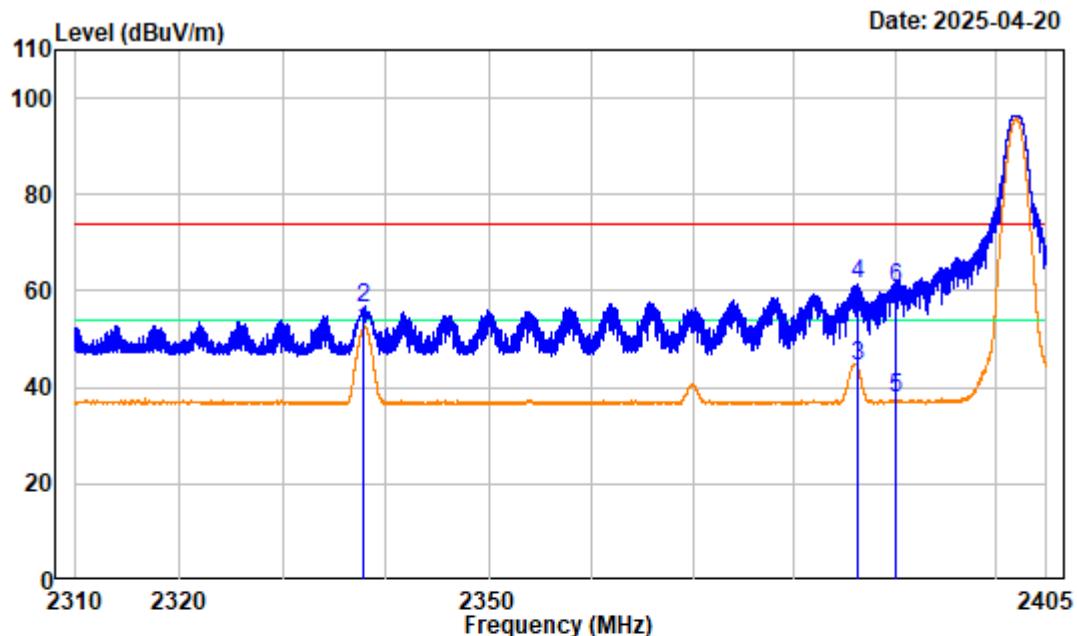
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Kevin Lv

Note : BLE 1M Low Channel 2402MHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1 24909.000		0.42	50.04	50.46	74.00 -23.54 Peak

Band Edge:

Site : chamber

Condition : 3m HORIZONTAL

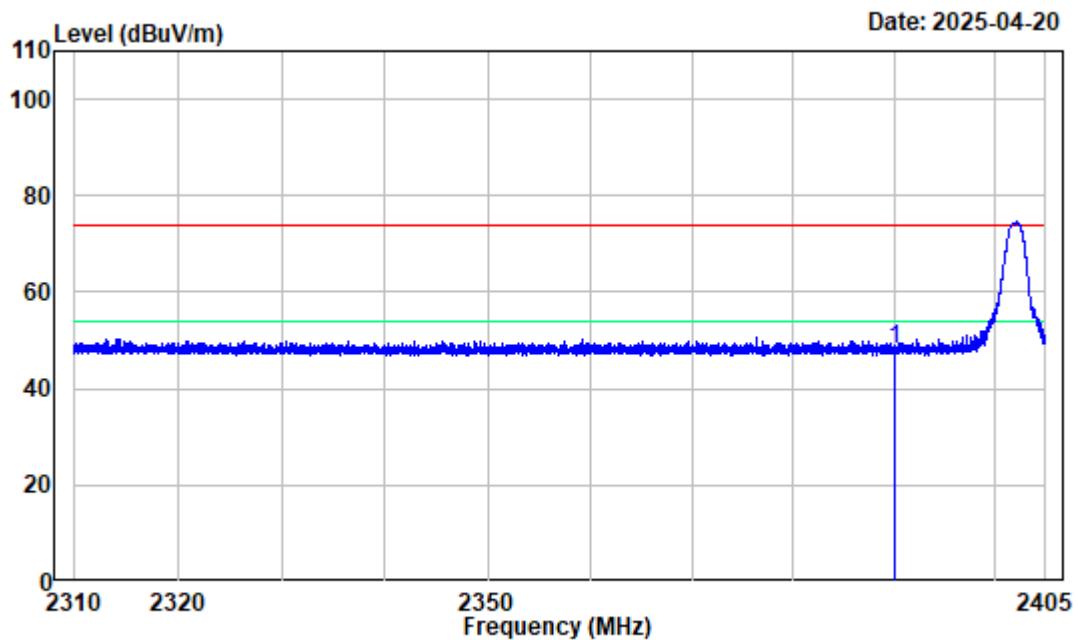
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M Low channel 2402MHz

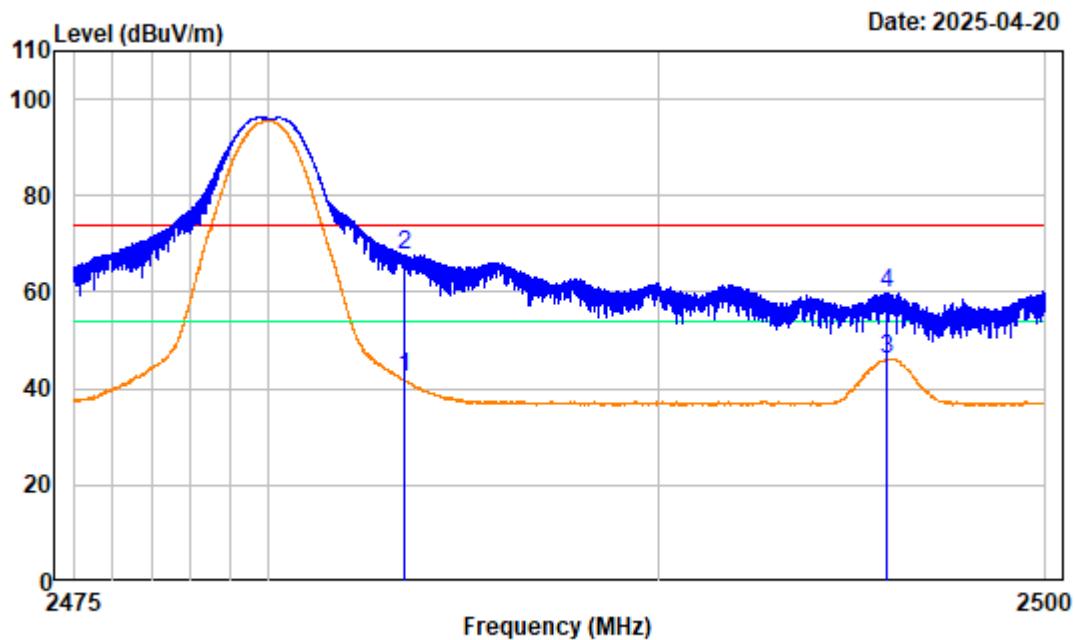
SA setting : Peak:RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	
1	2337.894	-10.18	62.11	51.93	54.00	-2.07	Average
2	2337.894	-10.18	66.81	56.63	74.00	-17.37	Peak
3	2386.226	-10.26	54.87	44.61	54.00	-9.39	Average
4	2386.226	-10.26	71.53	61.27	74.00	-12.73	Peak
5	2390.000	-10.24	48.20	37.96	54.00	-16.04	Average
6	2390.000	-10.24	70.91	60.67	74.00	-13.33	Peak



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M Low channel 2402MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	Level	dB _{uV}	Line	dB _{uV/m}
1	2390.000	-10.24	58.54	48.30	74.00	-25.70	Peak



Site : chamber

Condition : 3m HORIZONTAL

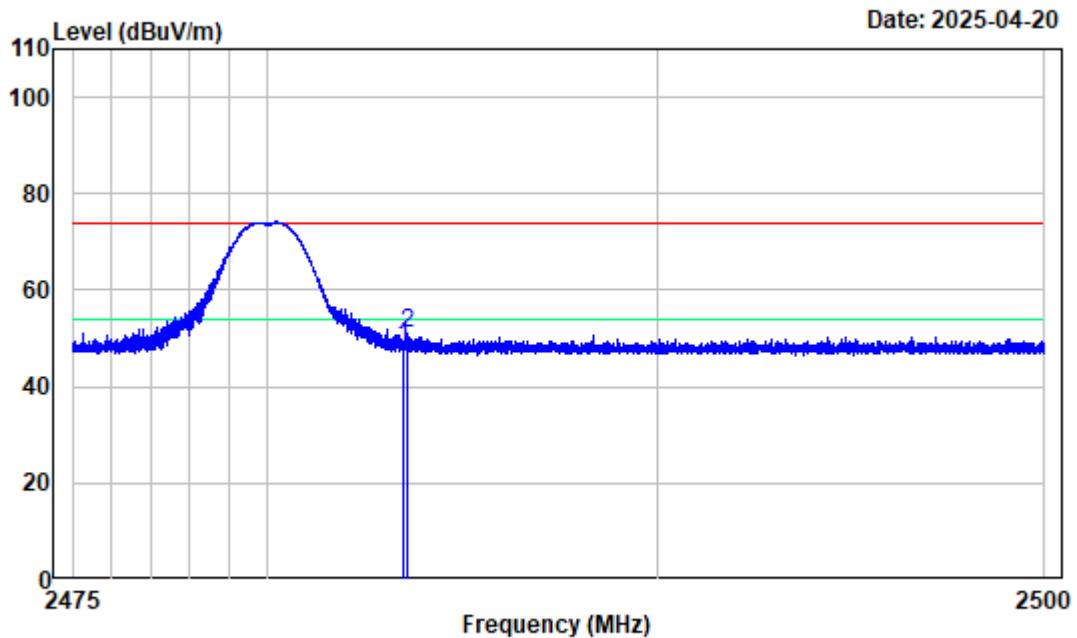
Project No.: 2504S29007E-RF

Test Mode : Transmitting Tester: Jimi Zheng

Test Mode : BLE 1M High channel 2480MHz

SA setting : Peak:RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:3kHz

Freq	Factor	Read	Limit	Over	dB	Remark
		Level	Level	Line		
1	2483.500	-10.22	52.46	42.24	54.00	-11.76 average
2	2483.500	-10.22	77.86	67.64	74.00	-6.36 peak
3	2495.881	-10.24	56.36	46.12	54.00	-7.88 Average
4	2495.881	-10.24	69.95	59.71	74.00	-14.29 Peak



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504S29007E-RF
Test Mode : Transmitting Tester: Jimi Zheng
Test Mode : BLE 1M High channel 2480MHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	Level	dBuV	Line	dBuV/m
1	2483.500	-10.22	58.48	48.26	74.00	-25.74	Peak
2	2483.575	-10.22	61.20	50.98	74.00	-23.02	Peak

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

Applicable Standard

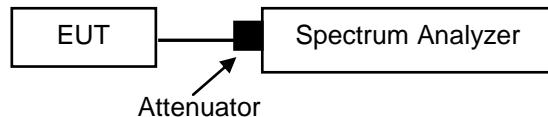
Systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

Test Procedure

According to ANSI C63.10-2020, section 11.8 and section 6.9

The steps for the first option are as follows:

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



Test Data

Please refer to the Appendix.

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.

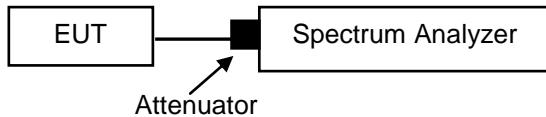
Test Procedure

According to ANSI C63.10-2020, section 11.9.1.1

● Measurement using a spectrum analyzer (SA)

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than 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

Please refer to the Appendix.

FCC §15.247(d)-100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

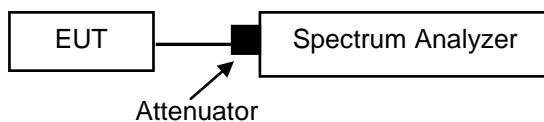
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

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

Please refer to the Appendix.

FCC §15.247(e)-POWER SPECTRAL DENSITY

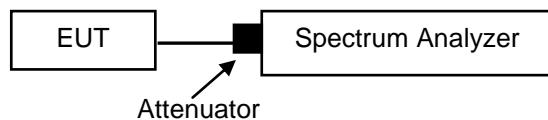
Applicable Standard

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

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

Please refer to the Appendix.

APPENDIX (RF TEST RESULTS)

6dB Emission Bandwidth

Test Information:

Sample No.:	3150-1	Test Date:	2025/04/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

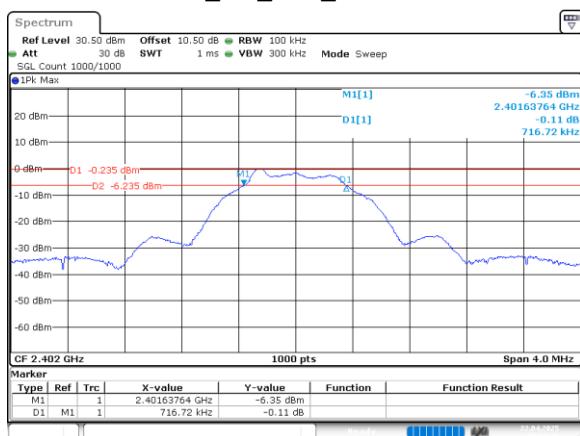
Temperature: (°C)	23.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.3
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Test Data:**BLE 1M**

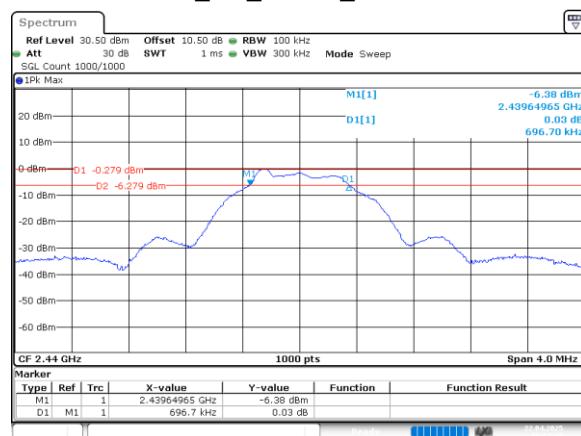
Channel	Result (MHz)	Limit (MHz)	Verdict
Low	0.717	≥0.5	Pass
Middle	0.697	≥0.5	Pass
High	0.693	≥0.5	Pass

BLE 1M

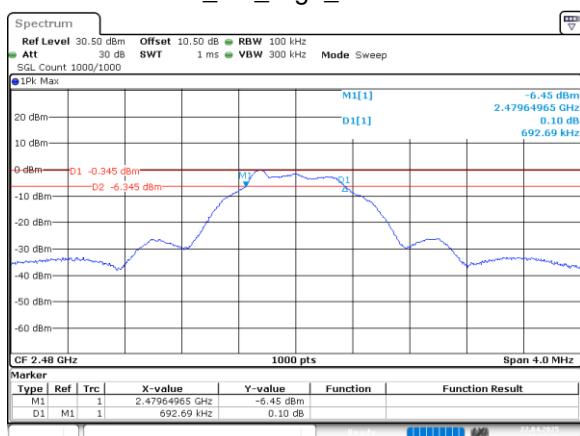
BLE_1M_Low_Channel



BLE_1M_Middle_Channel



BLE_1M_High_Channel



99% Occupied Bandwidth**Test Information:**

Sample No.:	3150-1	Test Date:	2025/04/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	/

Environmental Conditions:

Temperature: (°C)	23.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.3
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Test Data:**BLE 1M**

Channel	99% OBW (MHz)
Low	1.120
Middle	1.108
High	1.104

BLE 1M

BLE_1M_Low_Channel



BLE_1M_Middle_Channel



BLE_1M_High_Channel



Maximum Conducted Output Power

Test Information:

Sample No.:	3150-1	Test Date:	2025/04/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

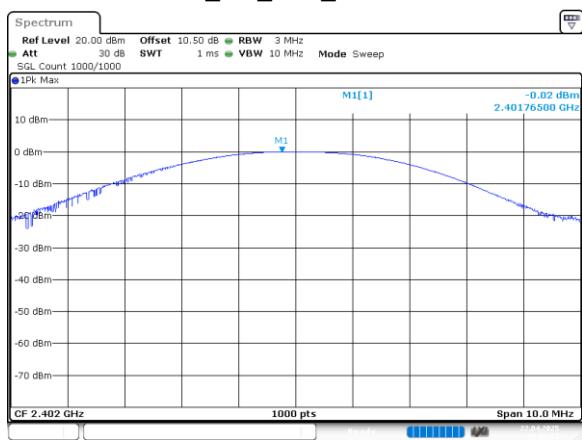
Temperature: (°C)	23.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.3
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Test Data:**BLE 1M**

Channel	Peak Output Power (dBm)	Limit (dBm)	Verdict
Low	-0.02	30.00	Pass
Middle	-0.09	30.00	Pass
High	-0.17	30.00	Pass

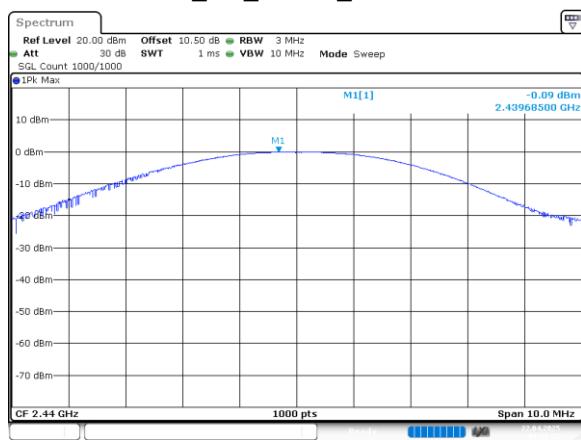
BLE 1M

BLE_1M_Low_Channel



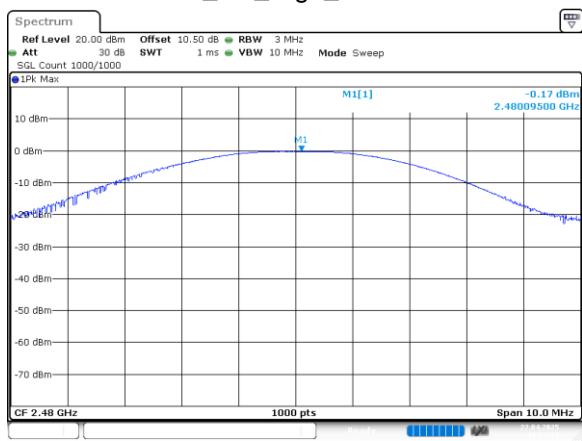
ProjectNo.:2504S29007E-RF Tester:Cayde Hou
Date: 22.APR.2025 09:55:53

BLE_1M_Middle_Channel



ProjectNo.:2504S29007E-RF Tester:Cayde Hou
Date: 22.APR.2025 09:58:32

BLE_1M_High_Channel



ProjectNo.:2504S29007E-RF Tester:Cayde Hou
Date: 22.APR.2025 10:01:55

Power Spectral Density

Test Information:

Sample No.:	3150-1	Test Date:	2025/04/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

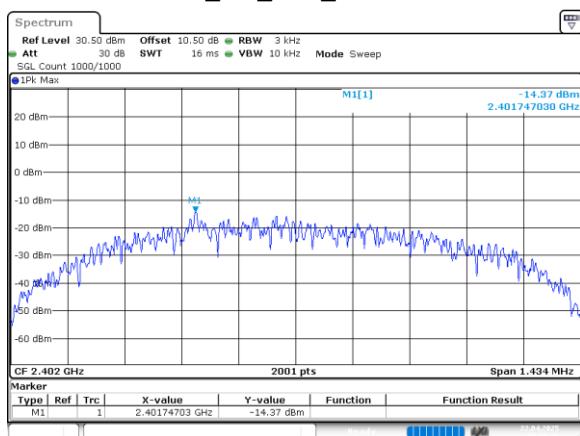
Temperature: (°C)	23.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.3
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Test Data:**BLE 1M**

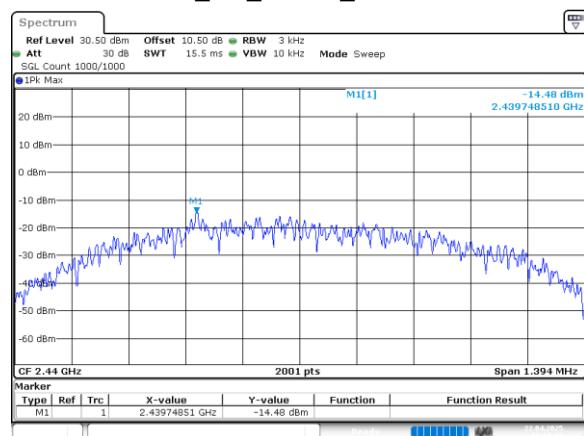
Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-14.37	8	Pass
Middle	-14.48	8	Pass
High	-14.57	8	Pass

BLE 1M

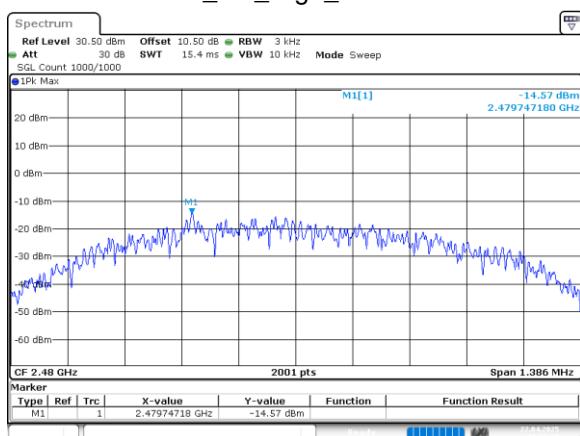
BLE_1M_Low_Channel



BLE_1M_Middle_Channel



BLE_1M_High_Channel



100 kHz Bandwidth of Frequency Band Edge

Test Information:

Sample No.:	3150-1	Test Date:	2025/04/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

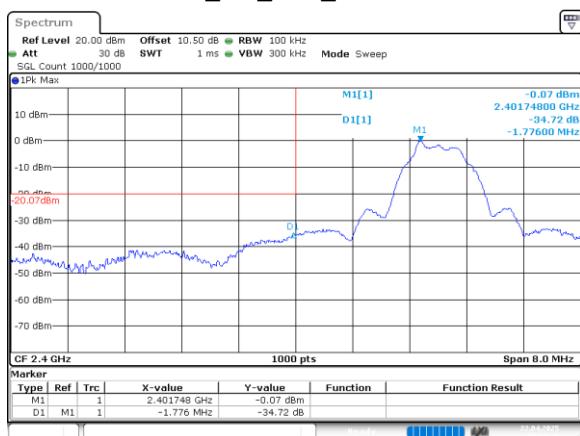
Temperature: (°C)	23.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.3
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Test Data:**BLE 1M**

Channel	Result (dB)	Limit (dB)	Verdict
Low	34.72	20	Pass
High	40.27	20	Pass

BLE 1M

BLE_1M_Low_Channel



BLE_1M_High_Channel



Duty Cycle

Test Information:

Sample No.:	3150-1	Test Date:	2025/04/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

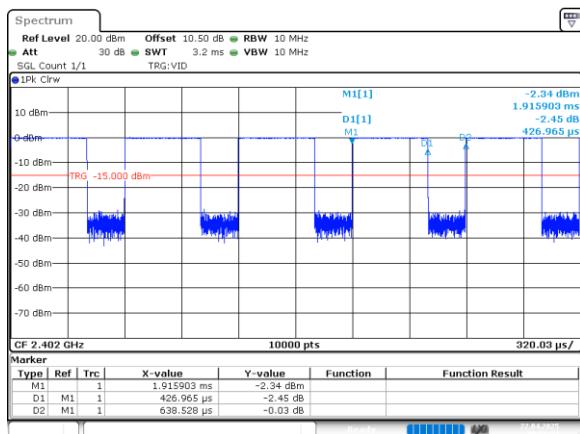
Temperature: (°C)	23.8	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.3
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Test Data:**BLE 1M**

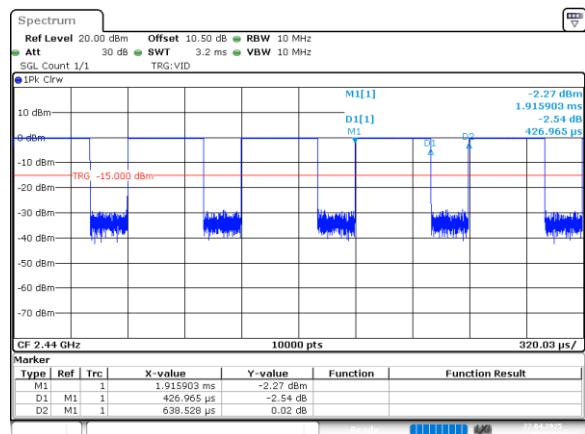
Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Low	0.427	0.639	66.82	1.75	2342	3
Middle	0.427	0.639	66.82	1.75	2342	3
High	0.427	0.639	66.82	1.75	2342	3

BLE 1M

BLE_1M_Low_Channel



BLE_1M_Middle_Channel



BLE_1M_High_Channel

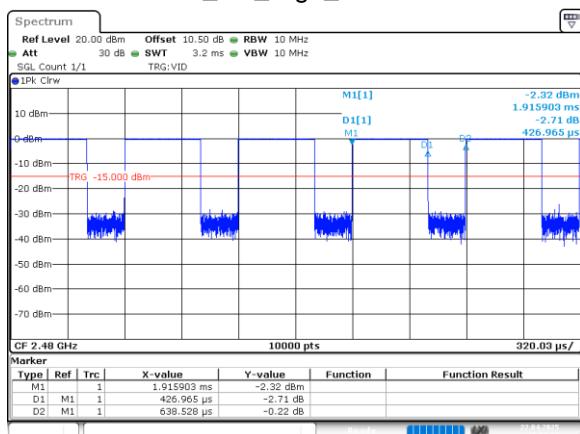


EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Annex: 2504S29007E-RF EUT EXTERNAL PHOTOGRAPHS and 2504S29007E-RF EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment: 2504S29007E-RF-00A TEST SETUP PHOTOGRAPHS.

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