

FCC PART 15.247

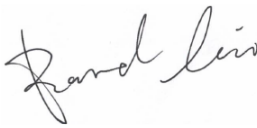
TEST REPORT

For

Lotwork Inc.

2009 Oxbow Ave. Ottawa ON K1H 5P1 Canada

FCC ID: 2BOZY-R102

Report Type: Original Report	Product Name: Base Station
Report Number: <u> RSHA250529007-00B </u>	
Report Date: <u> 2025-12-13 </u>	
Reviewed By: <u> Bard Liu </u>	
Approved By: <u> Kyle Xu </u>	
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA250529007-00B	R1V1	2025-12-13	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Lotwork Inc.
Tested Model:	R102
Product Name:	Base Station
Power Supply:	DC 5.9V from adapter
RF Function:	BLE
Operating Band/Frequency:	BLE (1 Mbps): 2402-2480 MHz BLE (2 Mbps): 2402-2480 MHz
Maximum Output Power:	BLE (1 Mbps): -11.28 dBm BLE (2 Mbps): -11.70 dBm
Channel Number:	40
Channel Separation:	2 MHz
Modulation Type	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	-2.15 dBi

Adapter Information:

Model: SK03T1-0590380U

Input: 100-240V 50/60Hz 0.6A

Output: 5.9V, 3.8A

Note: The maximum antenna gain was provided by the applicant.

All measurement and tested data in this report was gathered from production sample serial number:

RSHA250529007-1 (for conducted emissions and radiated emissions test), RSHA250529007-2 (for RF conducted test)

(Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2025-05-29.)

Objective

This report is prepared for *Lotwork Inc.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communications Commission rules.

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

Test Methodology

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

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9 dB
RF Output Power with Power meter		0.5 dB
Radiated emissions	9 kHz~150 kHz	3.8 dB
	150 kHz~30 MHz	3.4 dB
	30MHz~1GHz	6.11 dB
	1GHz~6GHz	4.45 dB
	6GHz~18GHz	5.23 dB
	18GHz~40GHz	5.65 dB
Occupied Bandwidth		0.5 kHz
Temperature		1.0 °C
Humidity		6 %

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel List for BLE mode:

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

EUT BLE 1M/2M was tested with channel 0, 19 and 39.

The EUT was powered by the adapter for all test items, whereas it was powered via PoE for the “SPURIOUS EMISSIONS under 1GHz” and “AC LINE CONDUCTED EMISSIONS” tests only.

EUT Exercise Software

RF Test Tool: EMI_TEST_v1.7

★Power level: -1.8

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

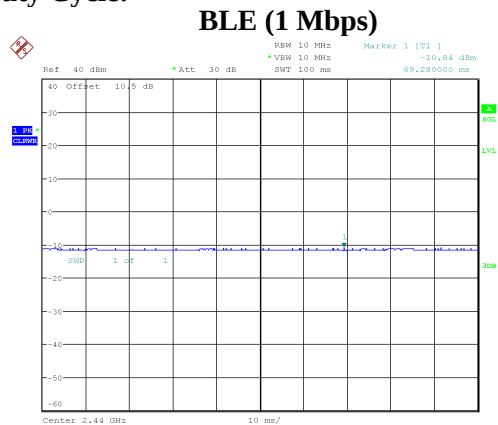
Equipment Modifications

No modification was made to the EUT tested.

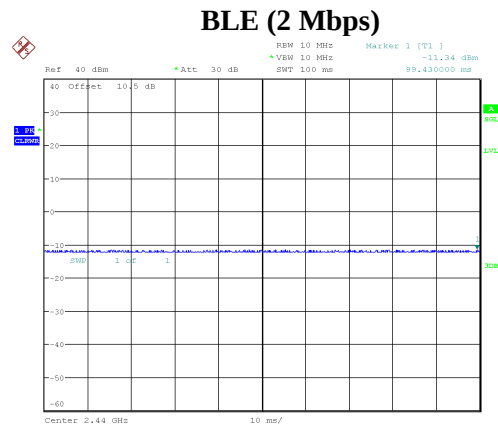
Environmental Conditions & Test Information

Test Date:	2025-08-14
Temperature:	27 °C
Relative Humidity:	60 %
ATM Pressure:	101.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Duty Cycle:



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:10:37



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:42:17

Mode	Duty Cycle (%)	T _{on} (ms)	T _{on+off} (ms)	10log(1/x) (dB)
BLE (1 Mbps)	100	100	100	0
BLE (2 Mbps)	100	100	100	0

Note: Offset(10.5dB) = Attenuator(10dB)+Cable loss(0.5dB)

Support Equipment List and Details

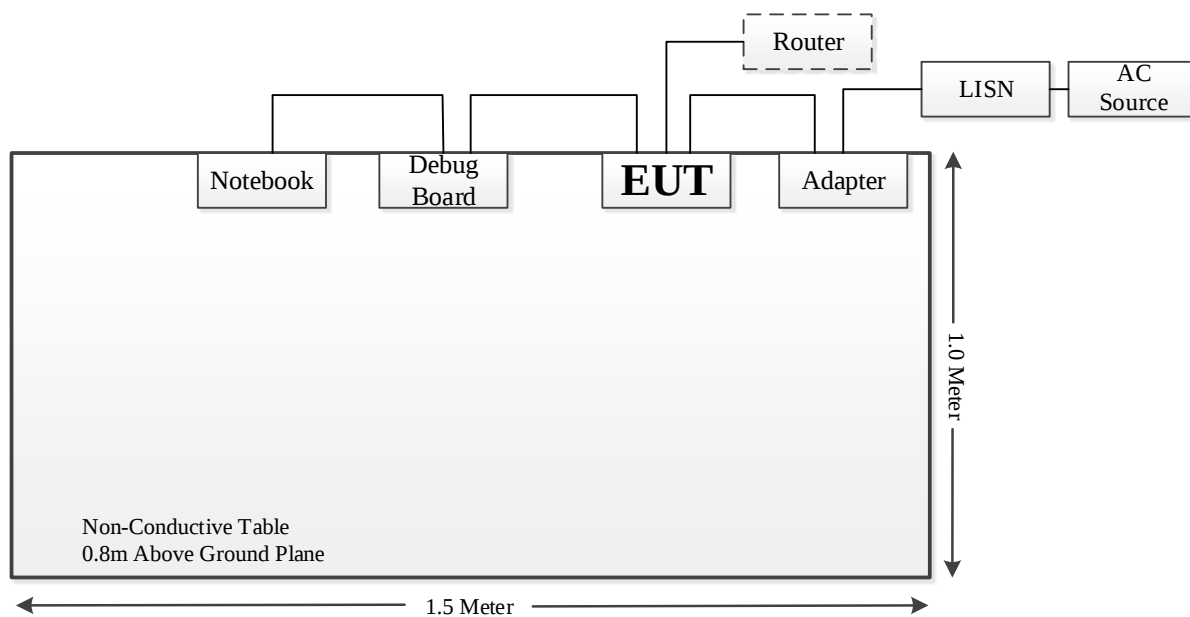
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Thinkpad T470S	83ECA1B-E1AF-4053-95DE-2E51B8D188D7
Unknown	Debug Board	Unknown	Unknown
Unknown	Router	Unknown	Unknown
Small ears	PoE power adapter	STD-POE4805-P	Unknown

External I/O Cable

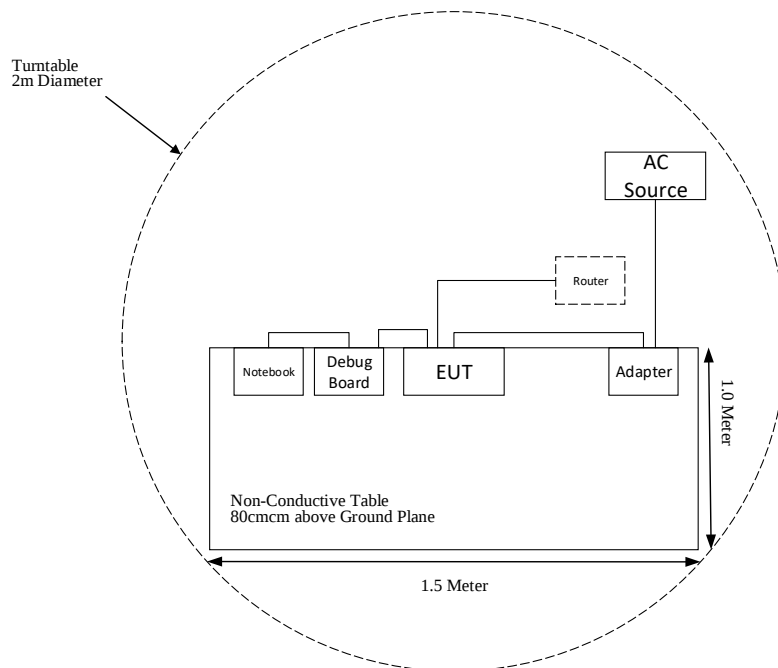
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	LISN/AC Source	Adapter/Power Strip
Power Cable 2	1.5	Adapter	EUT
Power Cable 3	1.0	Power Strip	PoE
Data Cable 1	0.2	EUT	Debug Board
Data Cable 2	1.0	Debug Board	Notebook
RJ45 Cable 1	3.0	EUT	Router
RJ45 Cable 2	2.0	EUT	POE
RJ45 Cable 3	3.0	PoE	Router

Block Diagram of Test Setup

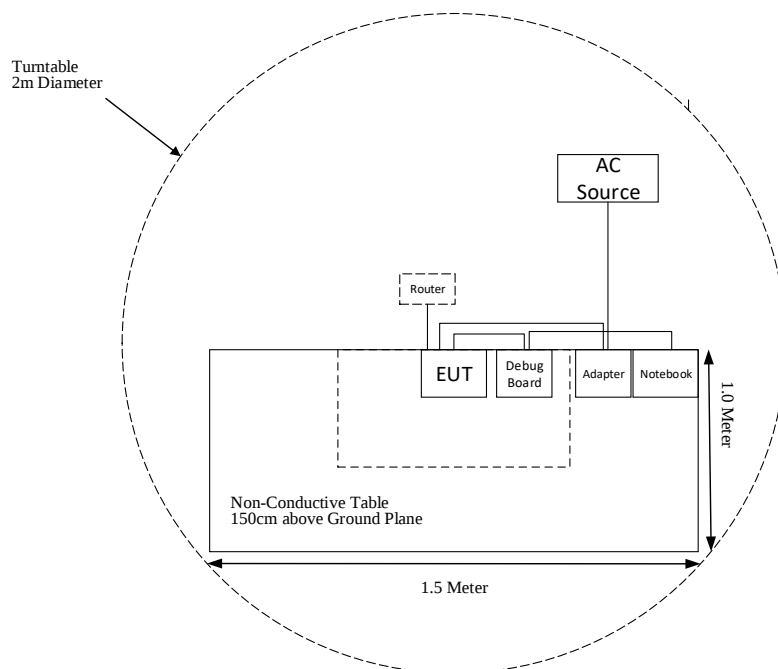
By adapter
For Conducted Emissions:



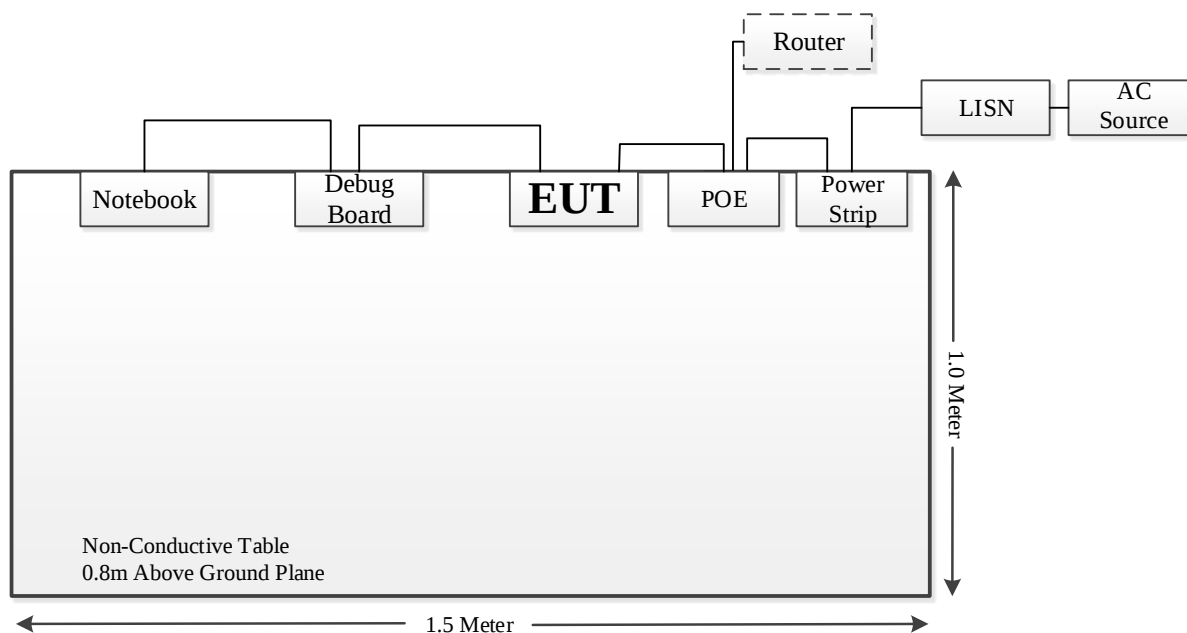
For Radiated Emissions(Below 1GHz):



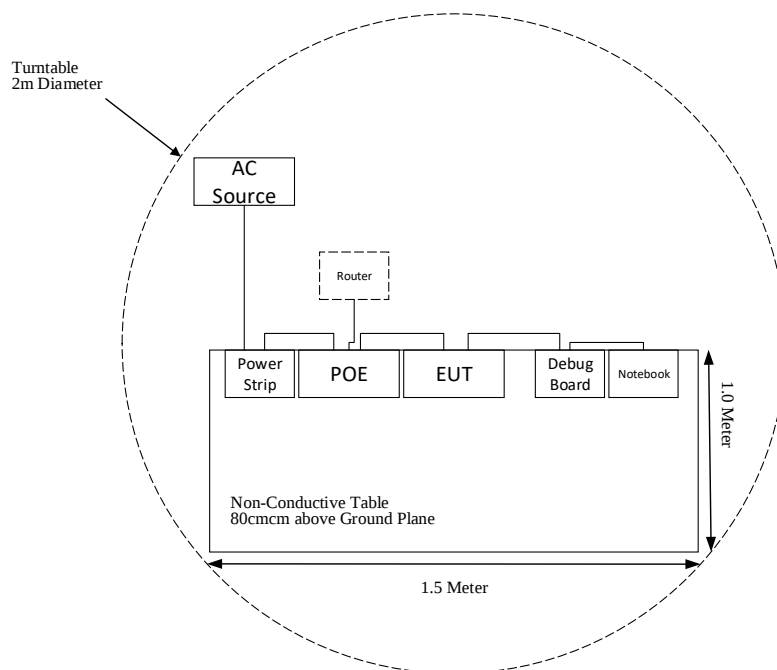
For Radiated Emissions(Above 1GHz):



By PoE
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Narda	6 dB Attenuator	771-6	10690812-2-1	2024-10-29	2027-10-28
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems,inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2025-04-08	2026-04-07
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
SELECTOR	Amplifier	EM18G40G	60726	2025-04-09	2026-04-08
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102454	2025-04-09	2026-04-08
Rohde & Schwarz	LISN	ENV216	101115	2025-04-08	2026-04-07
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2025-04-08	2026-04-07

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

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	Band Edge	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant

FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	-2.15	0.61	-11.0	0.08	20	0.00001	1.0
SRD	2405-2480	4.1	2.57	4.0	2.51	20	0.0013	1.0

BLE and SRD can Simultaneous Transmit

For simultaneously transmit, the worst condition is below:

$$\sum_i \frac{S_i}{S_{Limit,i}} = 0.00001/1.0 + 0.0013/1.0 = 0.00131 < 1.0$$

Result: The device meets MPE at distance 20cm.

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 use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has a PCB Antenna for BLE, and the antenna gain is -2.15 dBi, which is permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

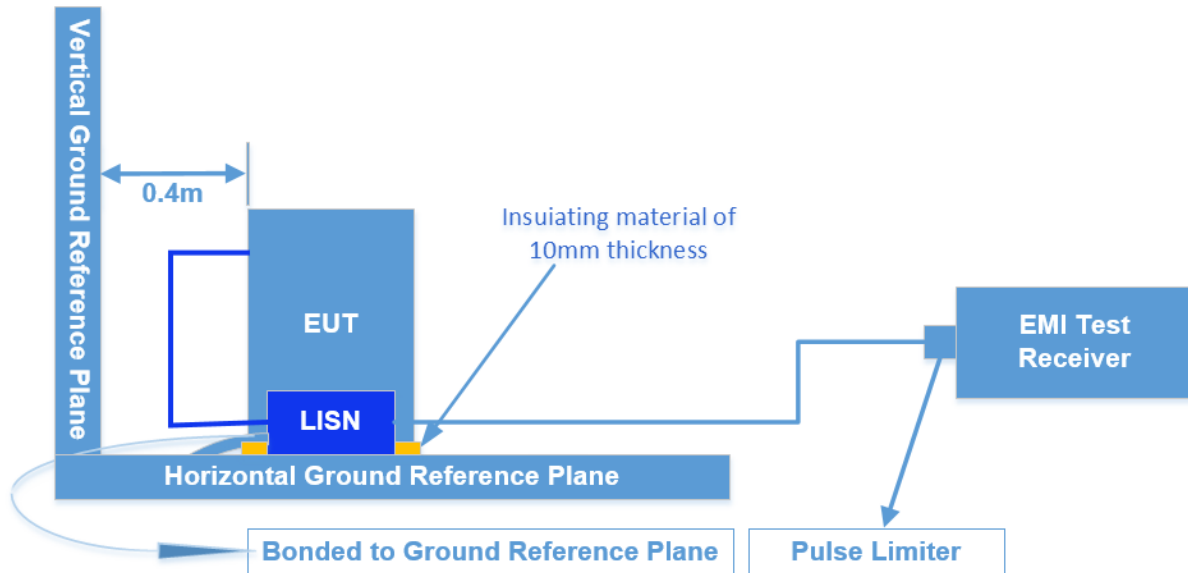
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10:2020. The related limit was specified in FCC Part 15.207.

EMI Test Receiver Setup

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

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

Frequency Range	RBW	VBW
150 kHz – 30 MHz	9 kHz	30 kHz

Test Procedure

ANSI C63.10:2020 clause 6.2

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

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

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

Level & Over Limit Calculation

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

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

Level (dBμV) = Read level (dBμV) + Factor (dB)

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

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

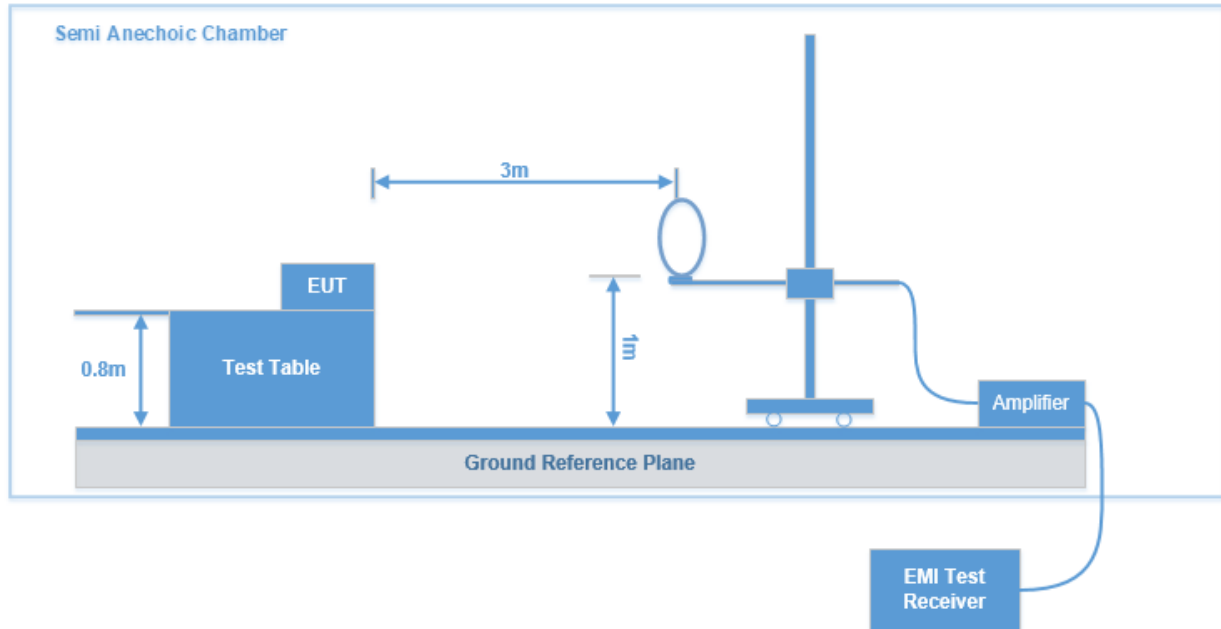
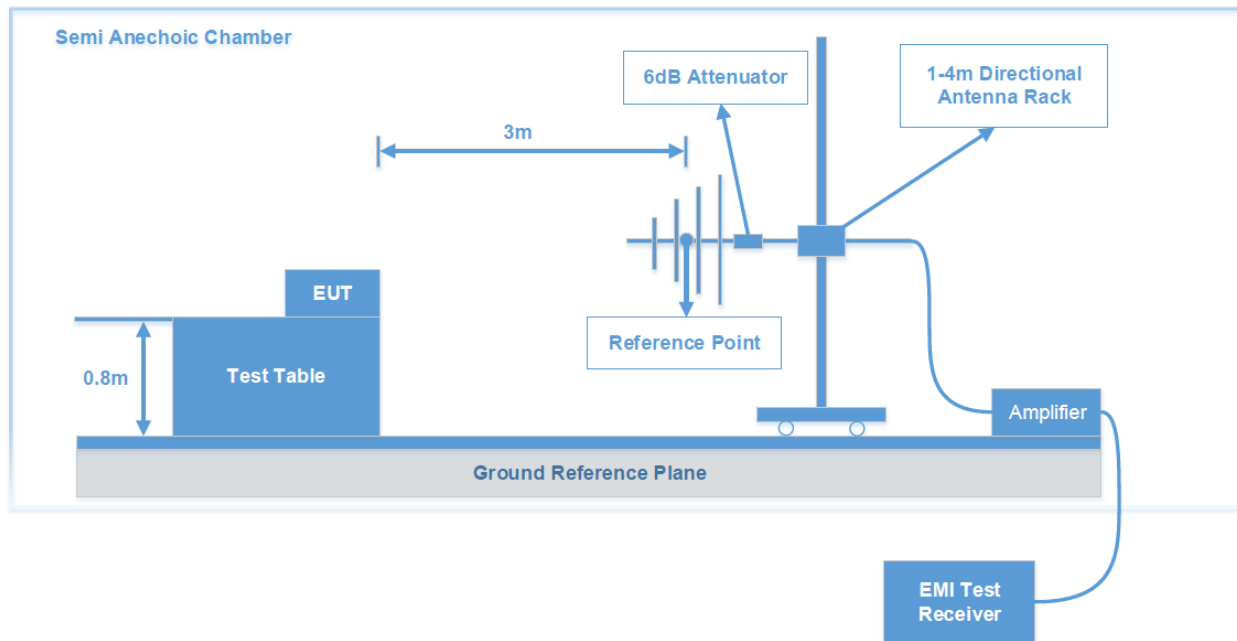
Test Results Summary

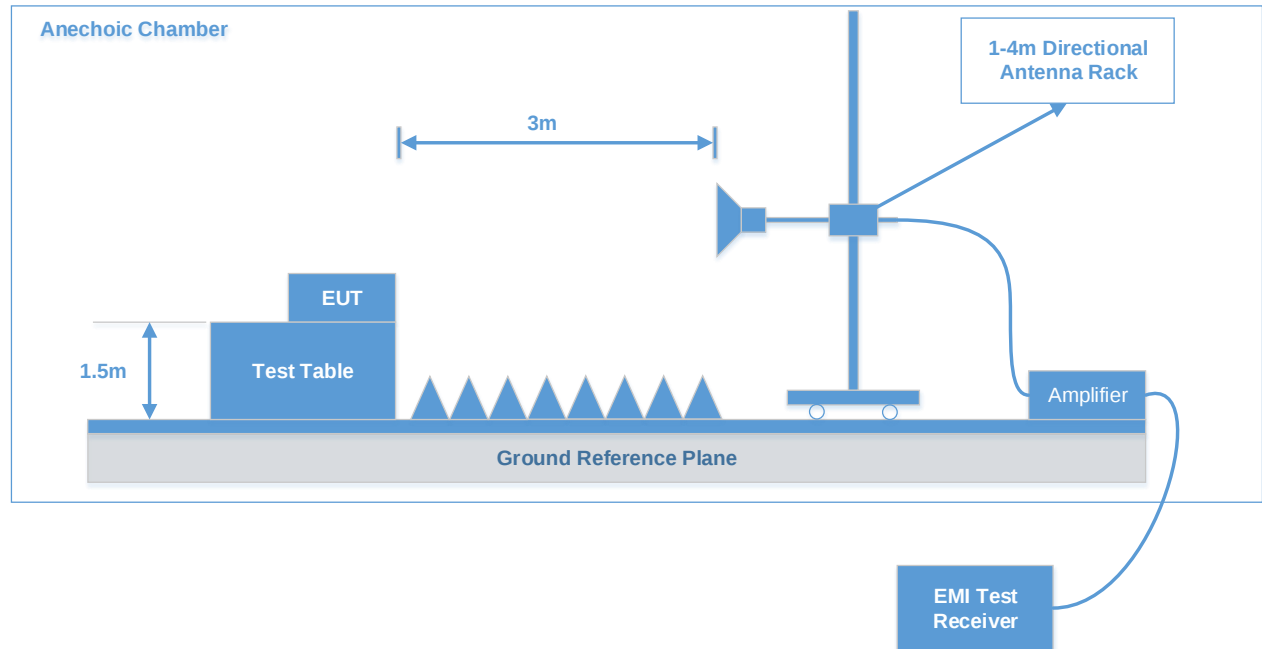
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

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

FCC §15.247 (d); §15.209; §15.205;

Test System Setup**9 kHz - 30 MHz:****30 MHz - 1 GHz:**

Above 1 GHz:

Note: The EUT Antenna 1.5m above Ground Plane

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10:2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver Setup

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

Frequency Range	RBW	VBW	IF B/W	Measurement	Detector
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	Peak/QP/Average	Peak/QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP/Average	Peak/QP/Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak	Peak
	/	/	120 kHz	QP	QP
Above 1GHz	1MHz	3 MHz	/	Peak	Peak
	1MHz	3 MHz	/	Average	Average

Test Procedure

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

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.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude 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:

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

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

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

Note: The QuasiPeak (dB μ V/m), MaxPeak (dB μ V/m), Average (dB μ V/m) which shown in the data table are all Corrected Amplitude.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

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

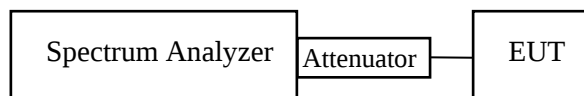
Applicable Standard

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

Test Procedure

According to ANSI C63.10:2020 sub-clause 11.8.1

- 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.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

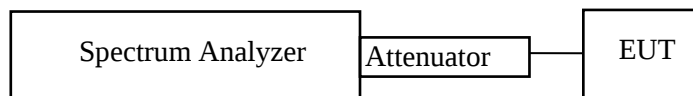
Applicable Standard

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 sub-clause 11.9.1.1

- 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.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(d) – BAND EDGE & CONDUCTED SPURIOUS EMISSION

Band Edges

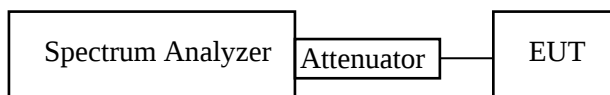
Applicable Standard

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 sub-clause 6.10.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Conducted Spurious Emission

Applicable Standard

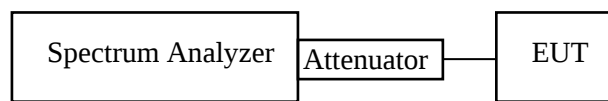
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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
- 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: See Appendix

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

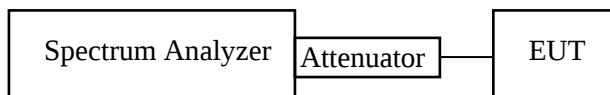
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of 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 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- 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.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A-EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B-EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C-TEST SETUP PHOTOGRAPHS.

APPENDIX - TEST DATA

AC LINE CONDUCTED EMISSIONS

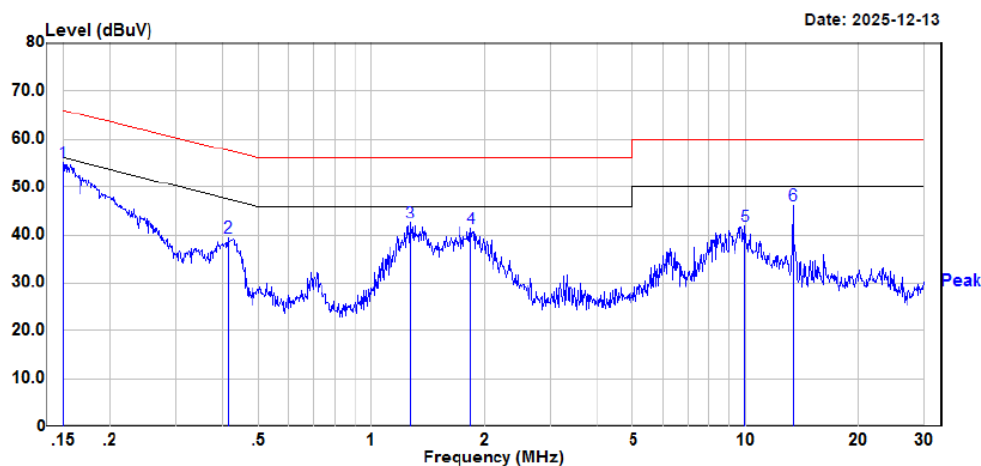
Environmental Conditions & Test Information

Test Date:	2025-11-18 & 2025-12-13
Temperature:	20.3 °C & 19.9 °C
Relative Humidity:	30 % & 36%
ATM Pressure:	103.3 kPa 102.9 kPa
Test Result:	Pass
Test Engineer:	Jack He

EUT operation mode: Transmitting in BLE (1 Mbps) middle channel (maximum output power)

For Adapter:

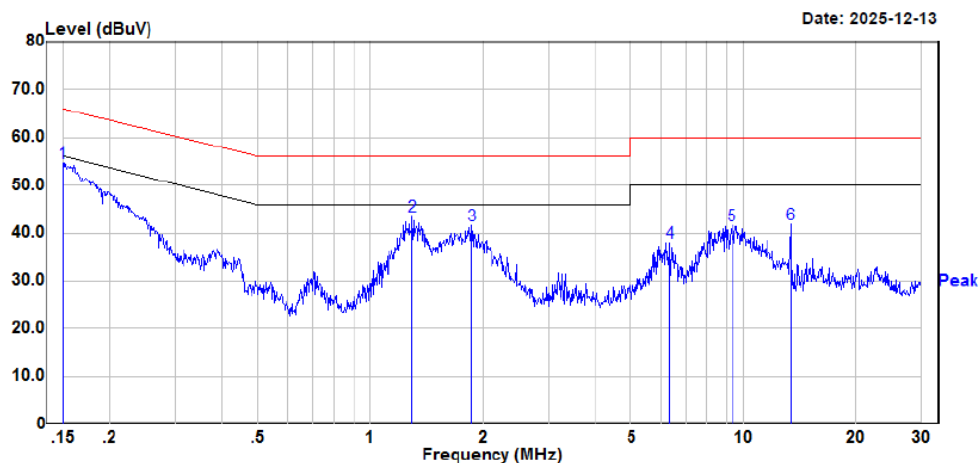
AC 120V/60 Hz, Line



Site : CE
 Condition : limit\FCC 15.207
 : DET:Peak
 Project No. : RSHA250529007
 Model : R102
 Phase : L
 Voltage : 120V/60Hz
 Mode : BLE 1M
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
 Temperature : 19.9°C
 Humidity : 36%
 Atmospheric pressure: 102.9kPa
 Test Engineer : Jack He

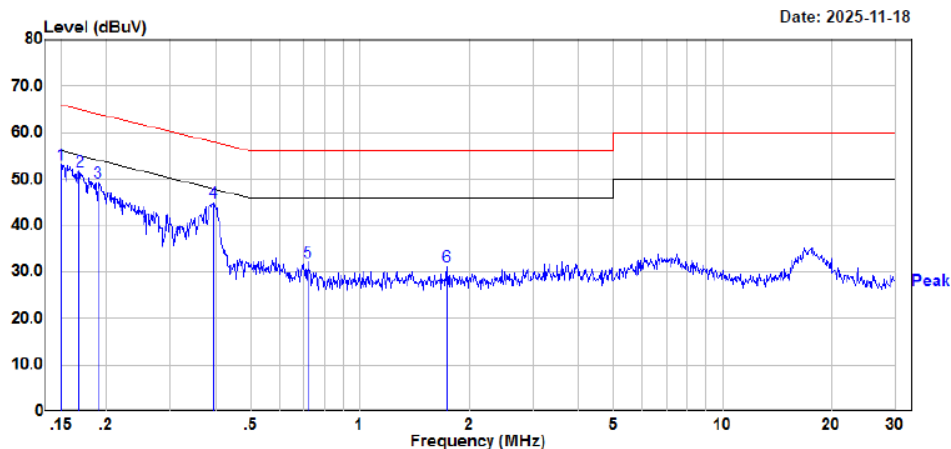
	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.150	34.60	20.41	55.01	66.00	-10.99 Peak
2	0.415	19.16	20.29	39.45	57.55	-18.10 Peak
3	1.266	22.28	20.21	42.49	56.00	-13.51 Peak
4	1.840	21.12	20.28	41.40	56.00	-14.60 Peak
5	9.971	21.74	20.17	41.91	60.00	-18.09 Peak
6	13.380	25.84	20.24	46.08	60.00	-13.92 Peak

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC 15.207
: DET:Peak
Project No. : RSHA250529007
Model : R102
Phase : N
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 19.9°C
Humidity : 36%
Atmospheric pressure: 102.9kPa
Test Engineer : Jack He

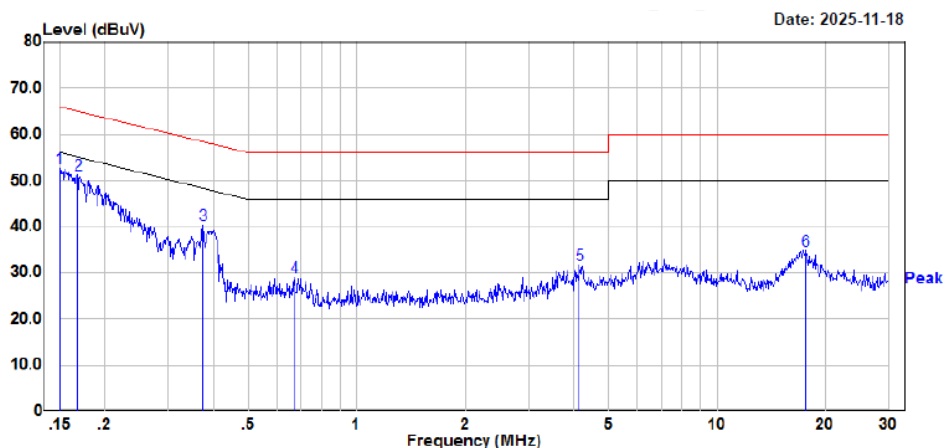
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	34.20	20.39	54.59	66.00	-11.41	Peak
2	1.292	23.30	20.21	43.51	56.00	-12.49	Peak
3	1.868	21.41	20.27	41.68	56.00	-14.32	Peak
4	6.367	17.91	20.15	38.06	60.00	-21.94	Peak
5	9.299	21.39	20.18	41.57	60.00	-18.43	Peak
6	13.380	21.65	20.25	41.90	60.00	-18.10	Peak

For PoE:**AC 120V/60 Hz, Line**

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RSHA250529007
Model : R102
Phase : L
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 20.3℃
Humidity : 30%
Atmospheric pressure: 103.3kPa
Test Engineer : Jack He

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV		dBuV	dBuV	dB	
1	0.150	32.66	20.41	53.07	66.00	-12.93	Peak
2	0.168	31.29	20.44	51.73	65.05	-13.32	Peak
3	0.190	28.77	20.47	49.24	64.05	-14.81	Peak
4	0.394	24.59	20.30	44.89	57.97	-13.08	Peak
5	0.717	11.86	20.25	32.11	56.00	-23.89	Peak
6	1.734	10.94	20.27	31.21	56.00	-24.79	Peak

AC 120V/60 Hz, Neutral



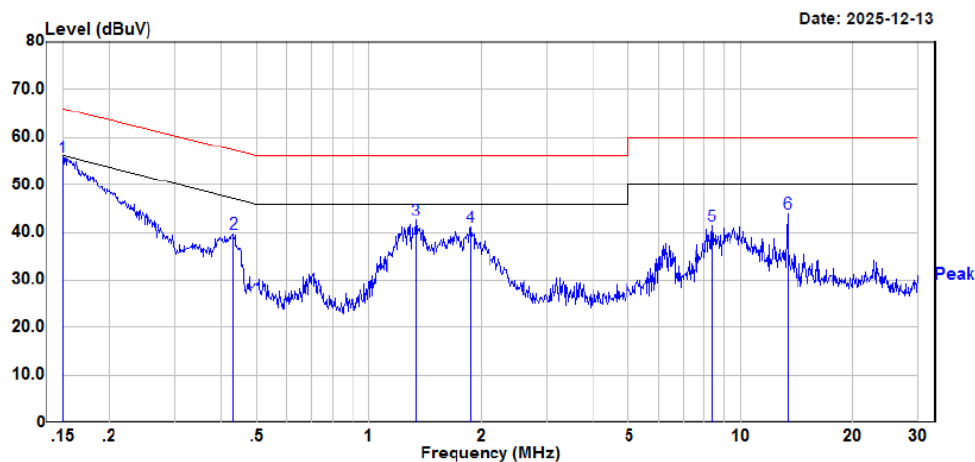
Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RSHA250529007
Model : R102
Phase : N
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 20.3°C
Humidity : 30%
Atmospheric pressure: 103.3kPa
Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	32.28	20.39	52.67	66.00	-13.33	Peak
2	0.168	30.93	20.41	51.34	65.05	-13.71	Peak
3	0.373	20.02	20.33	40.35	58.42	-18.07	Peak
4	0.672	8.77	20.23	29.00	56.00	-27.00	Peak
5	4.147	11.40	20.19	31.59	56.00	-24.41	Peak
6	17.600	14.53	20.40	34.93	60.00	-25.07	Peak

EUT operation mode: Transmitting in BLE (2 Mbps) middle channel (maximum output power)

For Adapter:

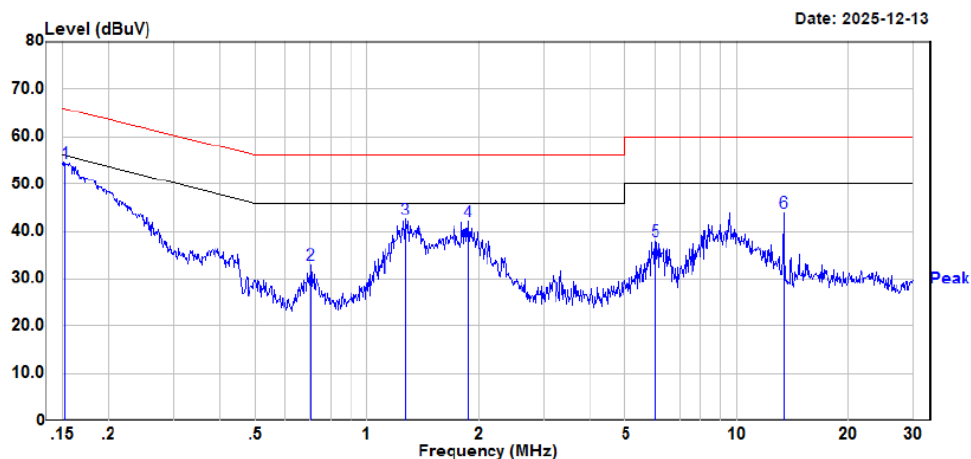
AC 120V/60 Hz, Line



Site : CE
Condition : limit\FCC 15.207
: DET:Peak
Project No. : RSHA250529007
Model : R102
Phase : L
Voltage : 120V/60Hz
Mode : BLE 2M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 19.9°C
Humidity : 36%
Atmospheric pressure: 102.9kPa
Test Engineer : Jack He

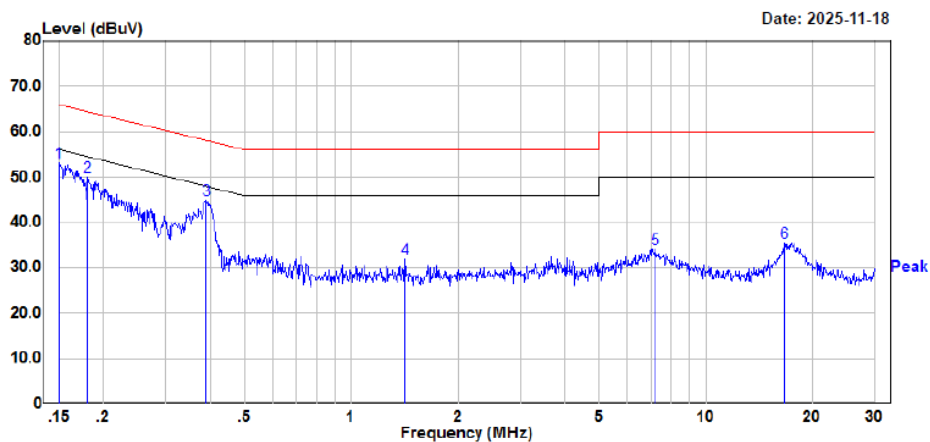
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	35.34	20.41	55.75	66.00	-10.25	Peak
2	0.432	19.31	20.29	39.60	57.22	-17.62	Peak
3	1.331	22.43	20.22	42.65	56.00	-13.35	Peak
4	1.877	20.72	20.29	41.01	56.00	-14.99	Peak
5	8.375	21.22	20.14	41.36	60.00	-18.64	Peak
6	13.380	23.71	20.24	43.95	60.00	-16.05	Peak

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC 15.207
: DET:Peak
Project No. : RSHA250529007
Model : R102
Phase : N
Voltage : 120V/60Hz
Mode : BLE 2M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 19.9℃
Humidity : 36%
Atmospheric pressure: 102.9kPa
Test Engineer : Jack He

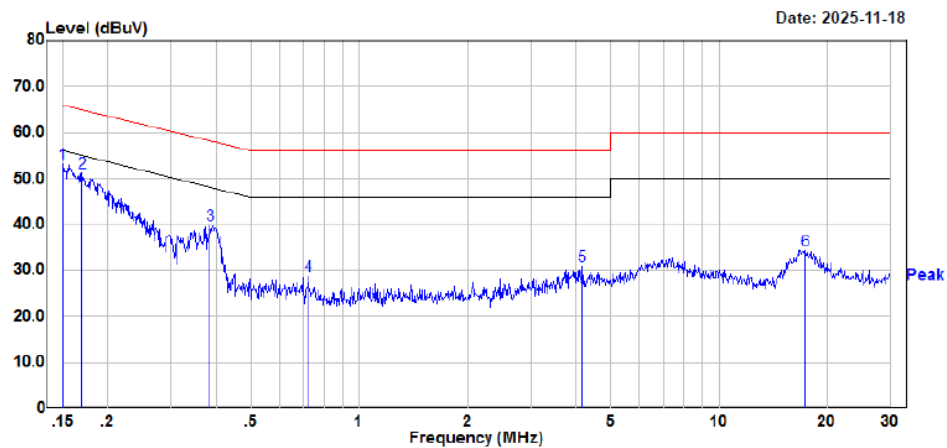
		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	34.01	20.39	54.40	65.88	-11.48	Peak
2	0.703	12.52	20.24	32.76	56.00	-23.24	Peak
3	1.266	22.32	20.21	42.53	56.00	-13.47	Peak
4	1.877	21.80	20.27	42.07	56.00	-13.93	Peak
5	5.997	17.79	20.15	37.94	60.00	-22.06	Peak
6	13.380	23.69	20.25	43.94	60.00	-16.06	Peak

For PoE:**AC 120V/60 Hz, Line**

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RSHA250529007
Model : R102
Phase : L
Voltage : 120V/60Hz
Mode : BLE 2M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 20.3℃
Humidity : 30%
Atmospheric pressure: 103.3kPa
Test Engineer : Jack He

	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.150	32.78	20.41	53.19	66.00	-12.81 Peak
2	0.180	29.69	20.45	50.14	64.47	-14.33 Peak
3	0.391	24.72	20.31	45.03	58.05	-13.02 Peak
4	1.413	11.72	20.22	31.94	56.00	-24.06 Peak
5	7.176	14.04	20.11	34.15	60.00	-25.85 Peak
6	16.661	15.28	20.35	35.63	60.00	-24.37 Peak

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RSHA250529007
Model : R102
Phase : N
Voltage : 120V/60Hz
Mode : BLE 2M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 20.3°C
Humidity : 30%
Atmospheric pressure: 103.3kPa
Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	32.86	20.39	53.25	66.00	-12.75	Peak
2	0.170	30.77	20.41	51.18	64.97	-13.79	Peak
3	0.385	19.55	20.32	39.87	58.18	-18.31	Peak
4	0.721	8.45	20.24	28.69	56.00	-27.31	Peak
5	4.168	10.65	20.19	30.84	56.00	-25.16	Peak
6	17.338	14.06	20.39	34.45	60.00	-25.55	Peak

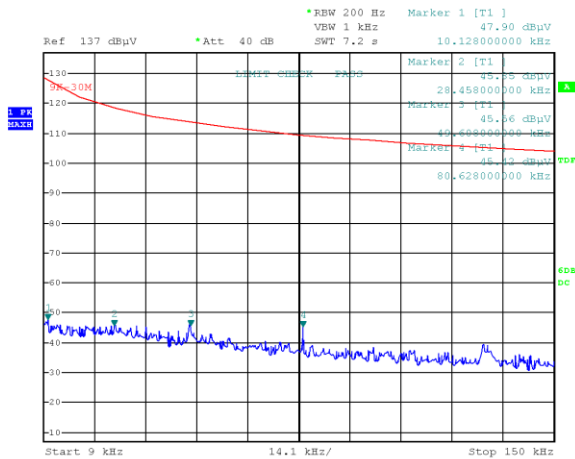
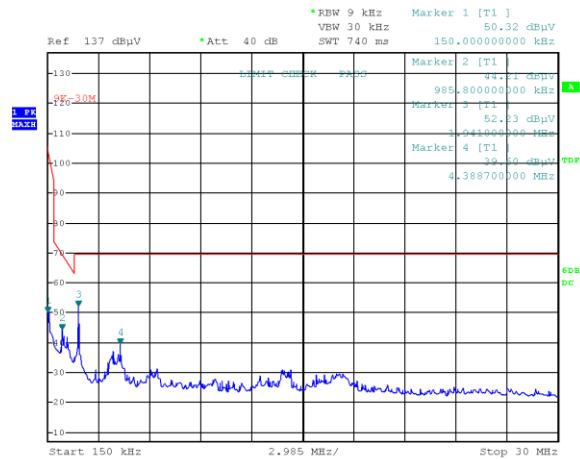
SPURIOUS EMISSIONS**Environmental Conditions & Test Information**

Frequency Range:	9kHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2025-08-05 & 2025-11-19	2025-08-07 & 2025-09-12	2025-08-27
Temperature:	24.8 °C & 19.6 °C	26.6 °C & 27.9 °C	25.5 °C
Relative Humidity:	53 % & 46%	50 % & 69 %	63 %
ATM Pressure:	100.6 kPa & 103.2 kPa	100.8 kPa & 101.2 kPa	101.1 kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Link Xia & Scarf Yang	Destine Hu	Hugh Wu

Test Result: Compliant.

EUT operation mode: Transmitting

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

9 kHz-30MHz: Transmitting in maximum output power mode BLE (1 Mbps) middle channel**For Adapter:****Parallel(worst case)****9kHz-150kHz****150kHz-30MHz**

Project No.RSHA250529007
 Date: 5.AUG.2025 13:23:22

Tester:Link Xia

Project No.RSHA250529007
 Date: 5.AUG.2025 13:27:53

Tester:Link Xia

9 kHz-150 kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.010128	47.90	PK	-0.51	127.49	79.59
0.028458	45.85	PK	-0.60	118.52	72.67
0.049608	45.56	PK	-3.75	113.69	68.13
0.080628	45.42	PK	-7.37	109.48	64.06

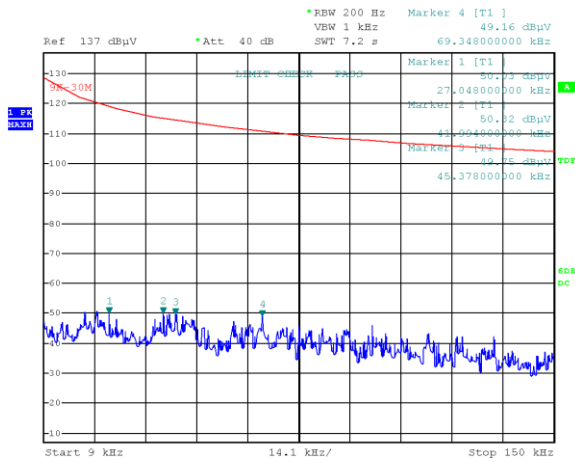
150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	50.32	PK	-11.34	104.08	53.76
0.985800	44.21	PK	-27.51	67.73	23.52
1.941000	52.23	PK	-30.72	69.54	17.31
4.388700	39.60	PK	-31.97	69.54	29.94

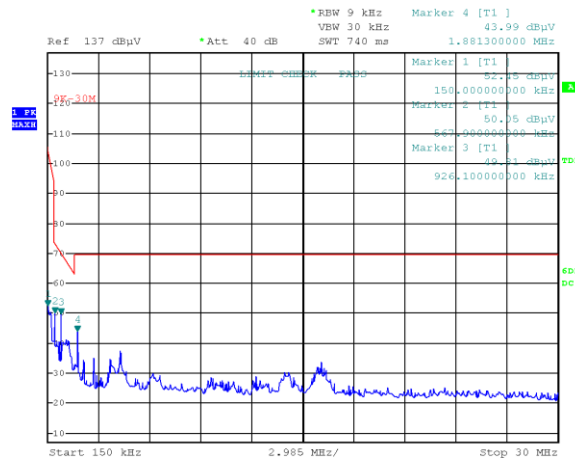
For PoE:

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No. RSHA250529007
Date: 19.NOV.2025 19:28:10

Tester: Scarf Yang

Project No. RSHA250529007
Date: 19.NOV.2025 19:33:40

Tester: Scarf Yang

9 kHz-150 kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.027048	50.03	PK	-0.60	118.96	68.93
0.041994	50.32	PK	-2.53	115.14	64.82
0.045378	49.75	PK	-3.07	114.47	64.72
0.069348	49.16	PK	-6.07	110.78	61.62

150 kHz-30 MHz

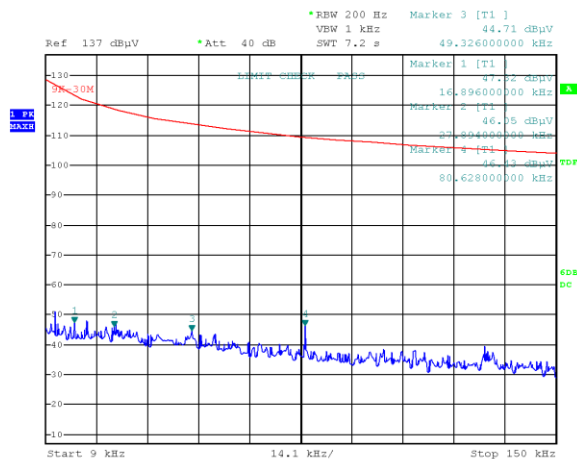
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	52.45	PK	-11.34	104.08	51.63
0.567900	50.05	PK	-23.27	92.52	42.47
0.926100	49.81	PK	-27.09	88.27	38.46
1.881300	43.99	PK	-30.52	69.54	25.55

9 kHz-30MHz: Transmitting in maximum output power mode BLE (2 Mbps) middle channel

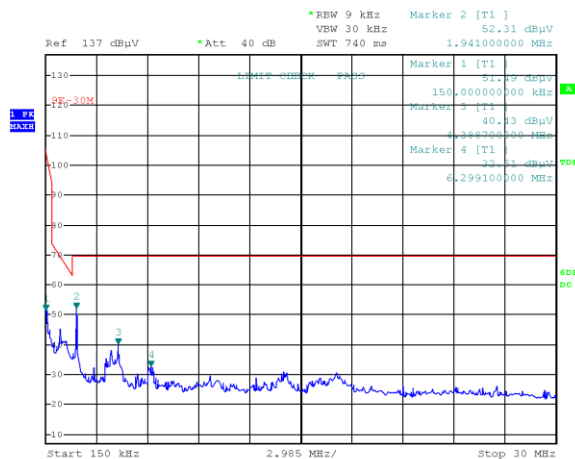
For Adapter:

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RSHA250529007
Date: 5.AUG.2025 13:16:08

Tester:Link Xia

Project No.RSHA250529007
Date: 5.AUG.2025 13:19:54

Tester:Link Xia

9 kHz-150 kHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.016896	47.32	PK	-0.54	123.05	75.73
0.027894	46.05	PK	-0.60	118.69	72.64
0.049326	44.71	PK	-3.70	113.74	69.03
0.080628	46.43	PK	-7.37	109.48	63.05

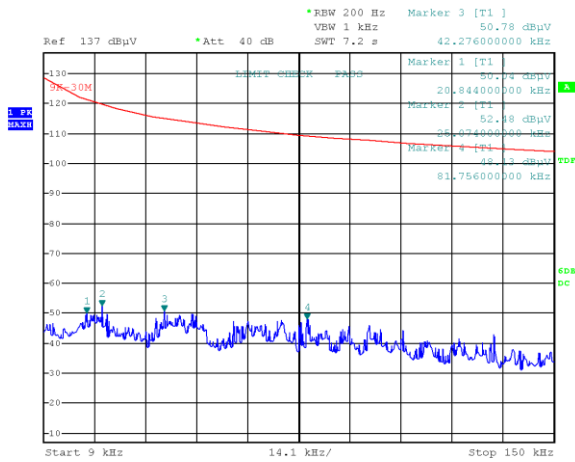
150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	51.49	PK	-11.34	104.08	52.59
1.941000	52.31	PK	-30.72	69.54	17.23
4.388700	40.43	PK	-31.97	69.54	29.11
6.299100	32.61	PK	-32.26	69.54	36.93

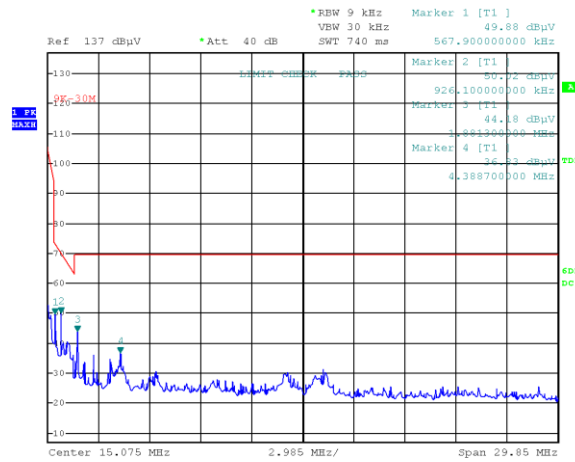
For PoE:

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RSHA250529007
 Date: 19.NOV.2025 19:43:37

Tester:Scarf Yang

Project No.RSHA250529007
 Date: 19.NOV.2025 19:50:55

Tester:Scarf Yang

9 kHz-150 kHz

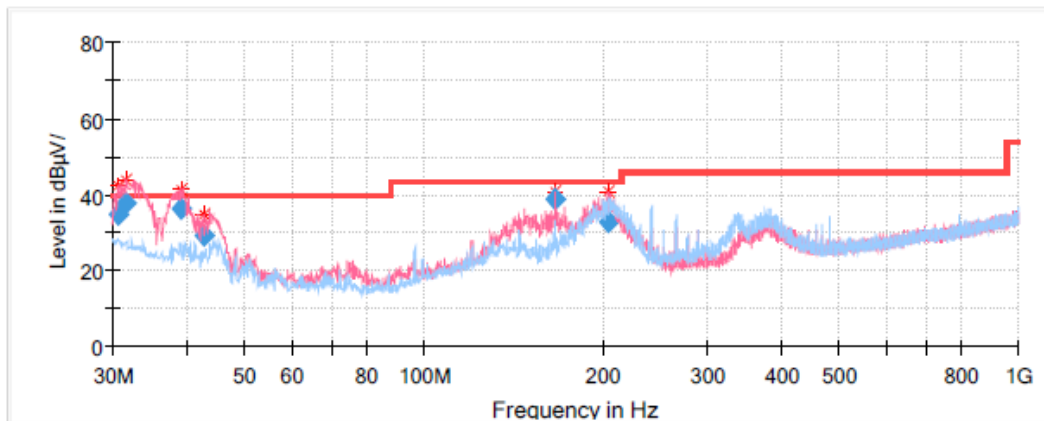
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.020844	50.04	PK	-0.56	121.23	71.19
0.025074	52.48	PK	-0.59	119.62	67.14
0.042276	50.78	PK	-2.58	115.08	64.30
0.081756	48.13	PK	-7.48	109.35	61.22

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.567900	49.88	PK	-23.27	92.52	42.64
0.926100	50.02	PK	-27.09	88.27	38.25
1.881300	44.18	PK	-30.52	69.54	25.36
4.388700	36.83	PK	-31.97	69.54	32.71

30 MHz - 1 GHz:**Transmitting in maximum output power BLE 1M middle channel****For Adapter:****Middle Channel: 2440 MHz****Common Information**

Project No:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M mode middle channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	24.8 °C
Humidity:	53%
Barometric Pressure:	100.6 kPa
Test Engineer:	Link Xia
Test Date:	2025/8/5

**Final Result**

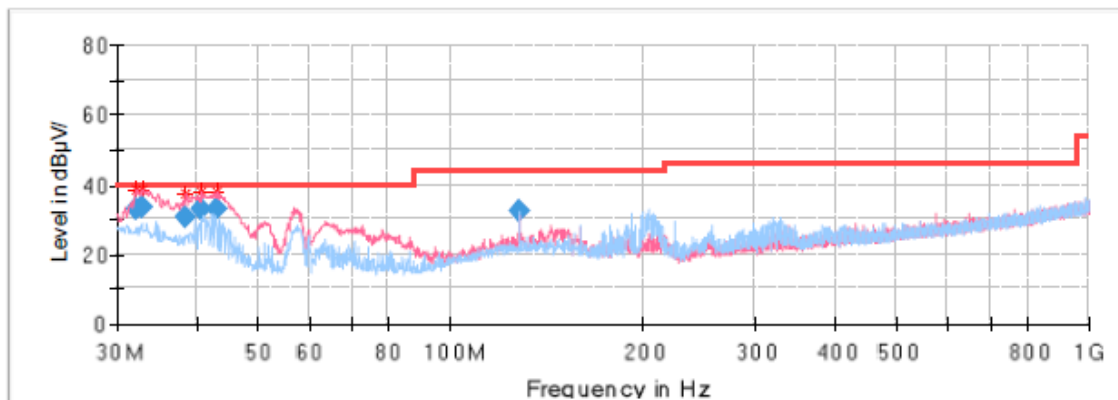
Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.606250	34.55	40.00	5.45	V	-5.5
31.697500	37.56	40.00	2.44	V	-6.3
39.093750	36.18	40.00	3.82	V	-10.7
42.731250	29.10	40.00	10.90	V	-12.8
165.921250	38.91	43.50	4.59	V	-12.4
203.993750	32.67	43.50	10.83	V	-12.3

For PoE:

Middle Channel: 2440 MHz

Common Information

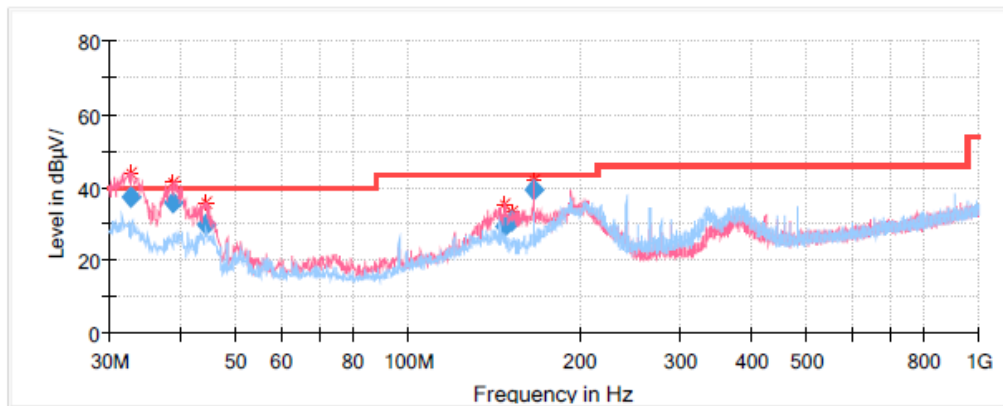
Project No: RSHA250529007
 EUT Model: R102
 Test Mode: Transmitting in BLE-1M mode middle channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
 Test Equipment: ESCI, JB3, 310N
 Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
 Temperature: 19.6°C
 Humidity: 46%
 Barometric Pressure: 103.2kPa
 Test Engineer: Scarf Yang
 Test Date: 2025/11/19

**Final Result**

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
32.303750	33.00	40.00	7.00	V	-6.7
32.788750	33.31	40.00	6.69	V	-7.3
38.487500	30.53	40.00	9.47	V	-10.9
40.791250	32.89	40.00	7.11	V	-12.4
43.095000	32.82	40.00	7.18	V	-12.9
127.970000	32.54	43.50	10.96	H	-11.0

30 MHz - 1 GHz:**Transmitting in maximum output power BLE 2M middle channel****For Adapter:****Middle Channel: 2440 MHz****Common Information**

Project No:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-2M mode middle channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	24.8°C
Humidity:	53%
Barometric Pressure:	100.6kPa
Test Engineer:	Link Xia
Test Date:	2025/8/5

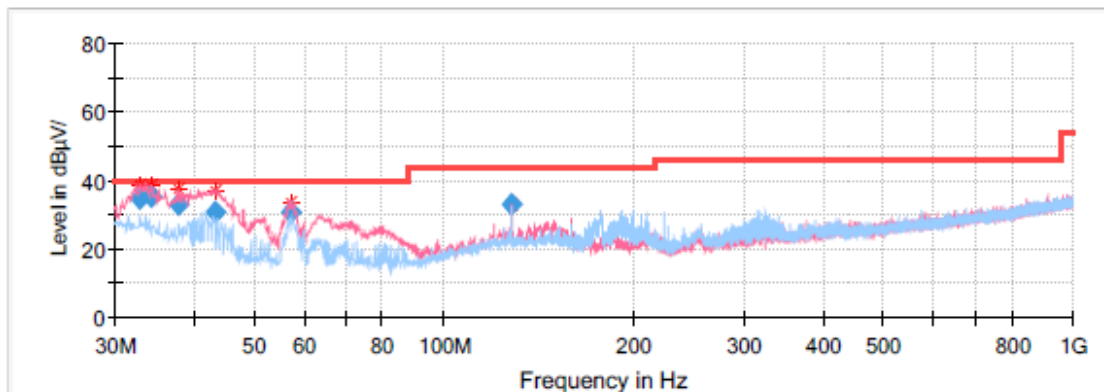
**Final Result**

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
32.788750	37.38	40.00	2.62	V	-5.9
38.972500	35.54	40.00	4.46	V	-10.7
44.428750	29.51	40.00	10.49	V	-13.9
147.612500	29.03	43.50	14.47	V	-11.6
151.977500	30.60	43.50	12.90	V	-11.8
166.042500	39.18	43.50	4.32	V	-12.4

For PoE:**Middle Channel: 2440 MHz**

Common Information

Project No:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-2M mode middle channel
Standard:	FCC Part 15.205 & FCC Part 15.209&FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	19.6°C
Humidity:	46%
Barometric Pressure:	103.2kPa
Test Engineer:	Scarf Yang
Test Date:	2025/11/19



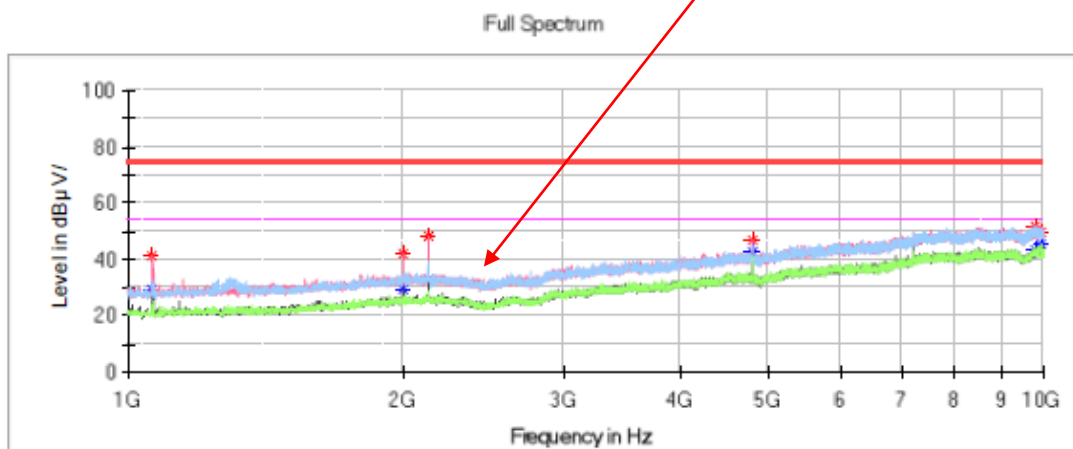
Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	PoI	Corr. (dB/m)
32.910000	34.76	40.00	5.24	V	-11.0
34.365000	35.15	40.00	4.85	V	-17.1
38.002500	32.79	40.00	7.21	V	-13.3
43.216250	30.39	40.00	9.61	V	-10.0
57.281250	30.44	40.00	9.56	V	-6.9
127.970000	33.13	43.50	10.37	V	-6.7

1 GHz-10 GHz:**BLE (1 Mbps)****Low Channel: 2402 MHz**

Common Information

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6°C
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Fundamental Test with
Band Reject Filter

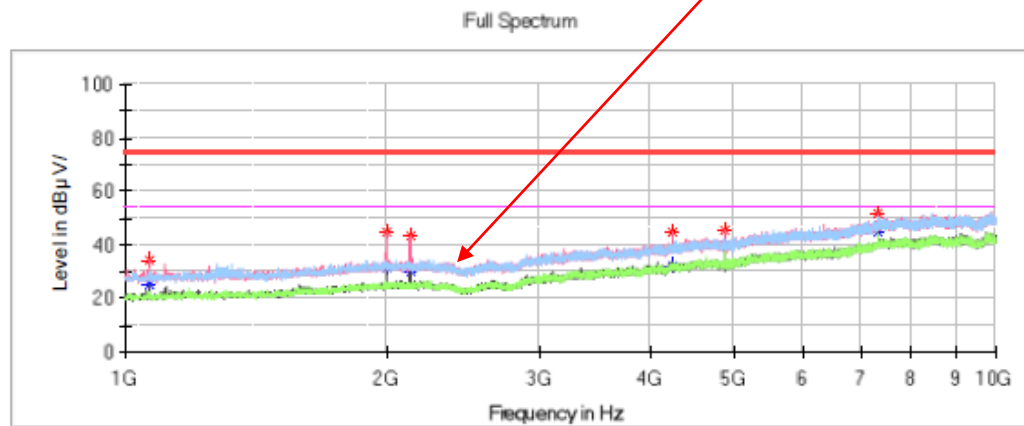
Critical Freqs

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1063.000000	---	29.33	54.00	24.67	V	-15.0
1063.000000	41.05	---	74.00	32.95	V	-15.0
1998.100000	---	29.43	54.00	24.57	V	-10.0
1998.100000	42.12	---	74.00	31.88	V	-10.0
2132.200000	---	32.66	54.00	21.34	V	-9.9
2132.200000	48.42	---	74.00	25.58	V	-9.9
4804.300000	---	42.47	54.00	11.53	V	-3.4
4804.300000	47.13	---	74.00	26.87	V	-3.4
9827.200000	51.78	---	74.00	22.22	V	5.8
9827.200000	---	43.31	54.00	10.69	V	5.8
9928.000000	49.92	---	74.00	24.08	H	6.1
9928.000000	---	45.12	54.00	8.88	H	6.1

Middle Channel: 2440 MHz**Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M Middle Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6°C
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Fundamental Test with
Band Reject Filter

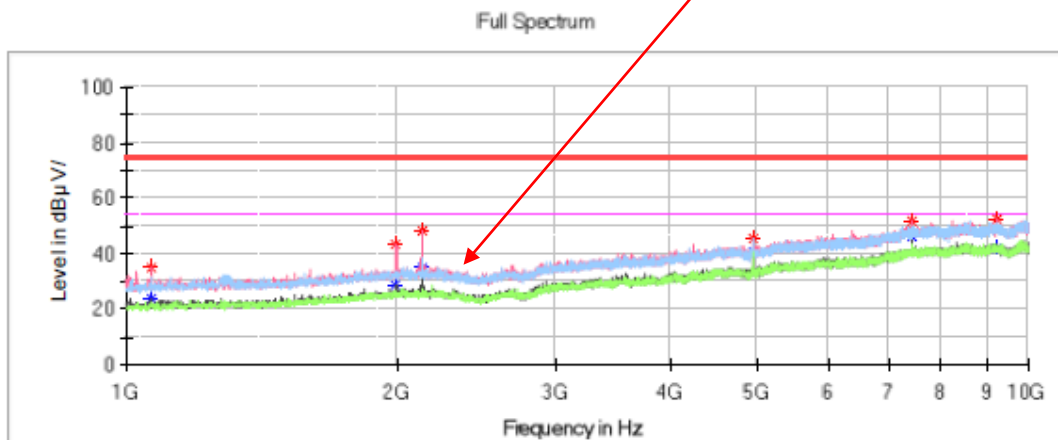
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.800000	---	24.94	54.00	29.06	V	-15.0
1064.800000	34.54	---	74.00	39.46	V	-15.0
1996.300000	---	31.12	54.00	22.88	V	-10.0
1996.300000	44.63	---	74.00	29.37	V	-10.0
2126.800000	---	29.81	54.00	24.19	V	-9.9
2126.800000	43.62	---	74.00	30.38	V	-9.9
4249.900000	---	32.20	54.00	21.80	H	-4.6
4249.900000	44.41	---	74.00	29.59	H	-4.6
4879.900000	---	39.65	54.00	14.35	V	-3.2
4880.800000	45.27	---	74.00	28.73	V	-3.2
7320.700000	51.70	---	74.00	22.30	V	2.4
7320.700000	---	44.94	54.00	9.06	V	2.4

High Channel: 2480 MHz**Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M High Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6℃
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Fundamental Test with
Band Reject Filter

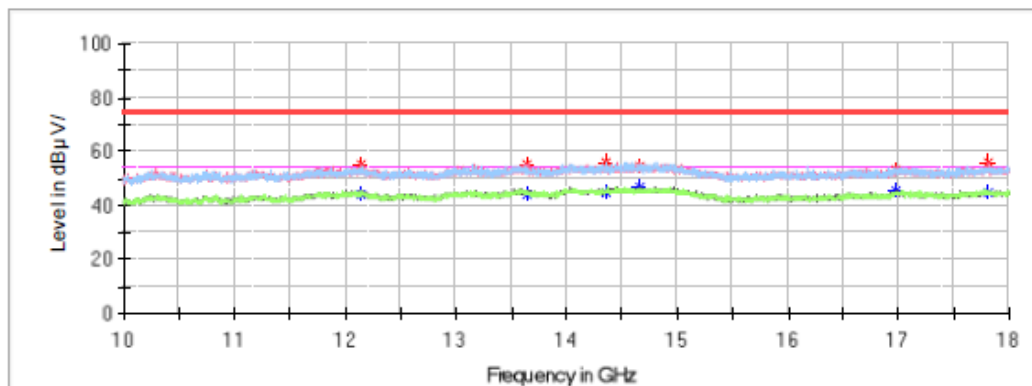
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.800000	---	23.86	54.00	30.14	V	-15.0
1064.800000	34.94	---	74.00	39.06	V	-15.0
1990.900000	43.48	---	74.00	30.52	V	-10.1
1990.900000	---	28.92	54.00	25.08	V	-10.1
2126.800000	48.36	---	74.00	25.64	V	-9.9
2126.800000	---	34.90	54.00	19.10	V	-9.9
4960.000000	---	40.52	54.00	13.48	H	-3.0
4960.000000	45.21	---	74.00	28.79	H	-3.0
7439.500000	---	46.28	54.00	7.72	V	2.8
7439.500000	52.08	---	74.00	21.92	V	2.8
9235.900000	---	42.27	54.00	11.73	V	4.7
9235.900000	52.17	---	74.00	21.83	V	4.7

10 GHz-18 GHz:**BLE (1 Mbps)****Low Channel: 2402 MHz****Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6°C
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Full Spectrum

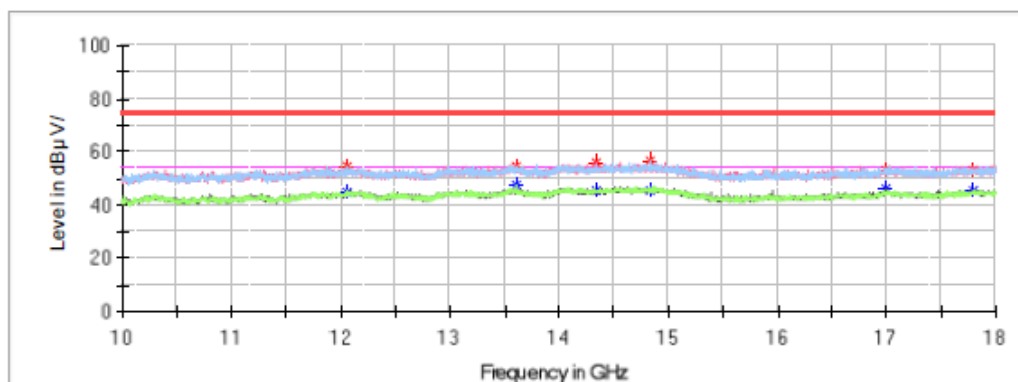
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12148.800000	---	44.34	54.00	9.66	V	9.0
12148.800000	54.96	---	74.00	19.04	V	9.0
13638.400000	55.51	---	74.00	18.49	V	10.3
13638.400000	---	44.37	54.00	9.63	V	10.3
14363.200000	56.09	---	74.00	17.91	H	11.7
14363.200000	---	45.06	54.00	8.94	H	11.7
14664.000000	54.34	---	74.00	19.66	H	11.4
14664.000000	---	46.74	54.00	7.26	H	11.4
16976.000000	52.91	---	74.00	21.09	V	10.9
16976.000000	---	45.26	54.00	8.74	V	10.9
17814.400000	---	44.81	54.00	9.19	V	11.3
17814.400000	55.81	---	74.00	18.19	V	11.3

Middle Channel: 2440 MHz**Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M Middle Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6℃
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Full Spectrum

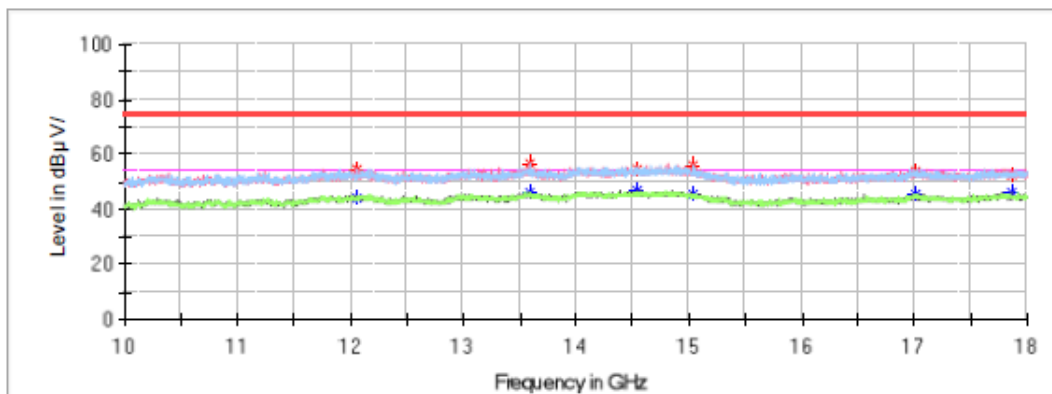
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
12064.000000	---	44.79	54.00	9.21	H	9.0
12064.000000	54.59	---	74.00	19.41	H	9.0
13614.400000	---	47.35	54.00	6.65	H	10.2
13614.400000	54.41	---	74.00	19.59	H	10.2
14332.800000	---	45.18	54.00	8.82	H	11.7
14332.800000	55.60	---	74.00	18.40	H	11.7
14833.600000	---	45.80	54.00	8.20	V	10.8
14833.600000	56.56	---	74.00	17.44	V	10.8
17000.000000	---	45.89	54.00	8.11	V	11.0
17000.000000	53.13	---	74.00	20.87	V	11.0
17795.200000	---	45.73	54.00	8.27	V	11.2
17795.200000	52.88	---	74.00	21.12	V	11.2

High Channel: 2480 MHz**Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M High Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6℃
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Full Spectrum

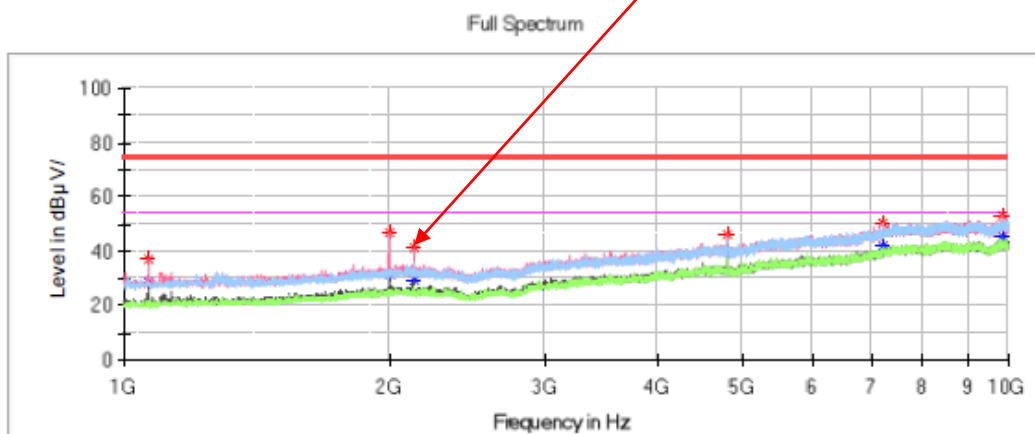
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12062.400000	---	44.05	54.00	9.95	H	9.0
12062.400000	54.80	---	74.00	19.20	H	9.0
13596.800000	56.35	---	74.00	17.65	H	10.2
13596.800000	---	45.88	54.00	8.12	H	10.2
14544.000000	54.56	---	74.00	19.44	H	11.8
14544.000000	---	46.95	54.00	7.05	H	11.8
15046.400000	---	45.41	54.00	8.59	V	10.1
15046.400000	56.08	---	74.00	17.92	V	10.1
17014.400000	53.54	---	74.00	20.46	H	10.9
17014.400000	---	45.71	54.00	8.29	H	10.9
17864.000000	---	46.01	54.00	7.99	V	11.4
17864.000000	52.73	---	74.00	21.27	V	11.4

1 GHz-10 GHz:**BLE (2 Mbps)****Low Channel: 2402 MHz****Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-2M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6°C
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Fundamental Test with
Band Reject Filter

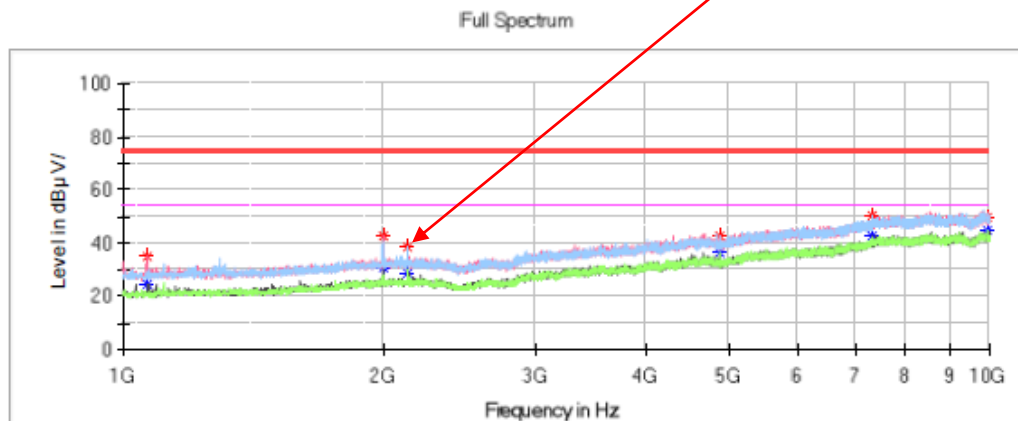
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.800000	---	28.59	54.00	25.41	V	-15.0
1064.800000	36.99	---	74.00	37.01	V	-15.0
1997.200000	---	31.34	54.00	22.66	V	-10.0
1997.200000	46.50	---	74.00	27.50	V	-10.0
2126.800000	---	29.18	54.00	24.82	V	-9.9
2126.800000	40.94	---	74.00	33.06	V	-9.9
4803.400000	---	39.84	54.00	14.16	V	-3.4
4804.300000	45.85	---	74.00	28.15	V	-3.4
7207.300000	50.10	---	74.00	23.90	H	2.1
7207.300000	---	41.68	54.00	12.32	H	2.1
9836.200000	53.48	---	74.00	20.52	V	5.8
9836.200000	---	45.22	54.00	8.78	V	5.8

Middle Channel: 2440 MHz**Common Information**

Project No.: RSHA250529007
EUT Model: R102
Test Mode: Transmitting in BLE-2M Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Fundamental Test with
Band Reject Filter

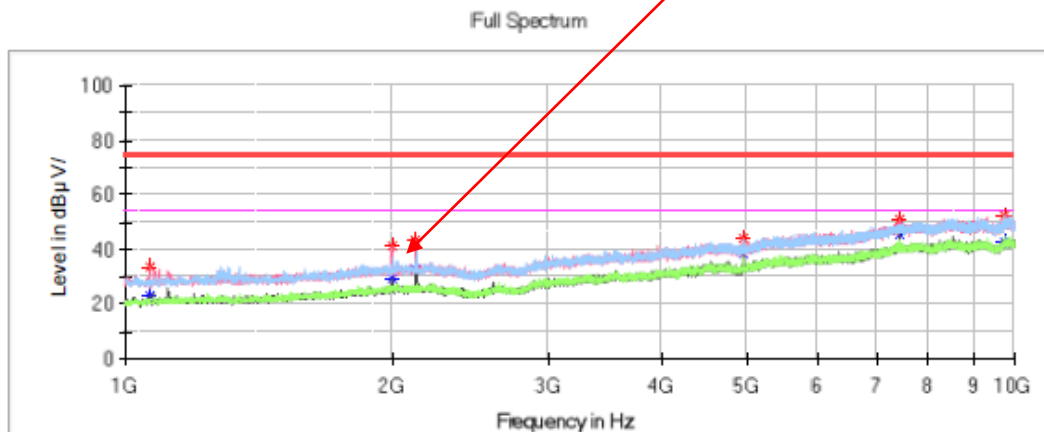
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.800000	---	24.52	54.00	29.48	V	-15.0
1064.800000	34.81	---	74.00	39.19	V	-15.0
1995.400000	42.58	---	74.00	31.42	V	-10.0
1995.400000	---	30.44	54.00	23.56	V	-10.0
2126.800000	38.31	---	74.00	35.69	V	-9.9
2126.800000	---	28.60	54.00	25.40	V	-9.9
4880.800000	---	36.35	54.00	17.65	H	-3.2
4880.800000	42.64	---	74.00	31.36	H	-3.2
7318.900000	---	42.63	54.00	11.37	V	2.4
7318.900000	50.63	---	74.00	23.37	V	2.4
9933.400000	---	44.57	54.00	9.43	H	6.2
9933.400000	49.48	---	74.00	24.52	H	6.2

High Channel: 2480 MHz**Common Information**

Project No.: RSHA250529007
EUT Model: R102
Test Mode: Transmitting in BLE-2M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 26.6°C
Humidity: 49%
Atmospheric Pressure: 101.2kPa
Test Engineer: Destine Hu
Test Date: 2025/9/12

Fundamental Test with
Band Reject Filter

**Critical Freqs**

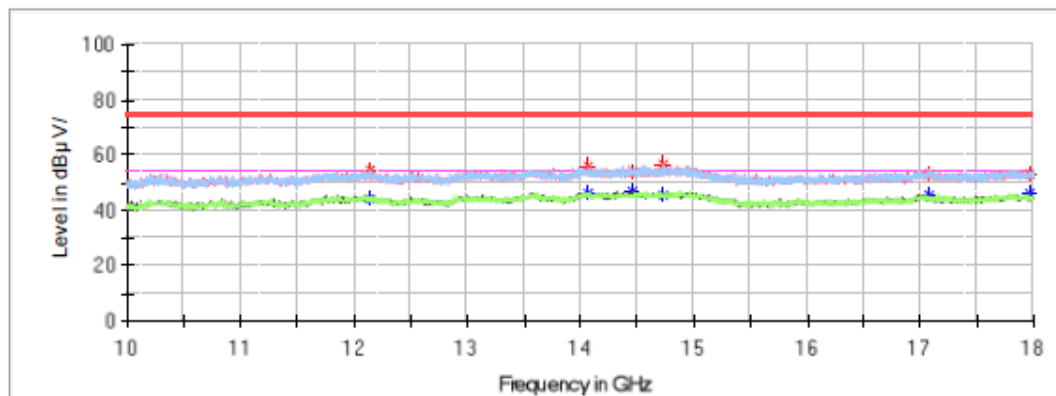
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.800000	---	23.21	54.00	30.79	V	-15.0
1064.800000	33.85	---	74.00	40.15	V	-15.0
1992.700000	---	29.08	54.00	24.92	V	-10.1
1992.700000	41.48	---	74.00	32.52	V	-10.1
2124.100000	---	32.72	54.00	21.28	V	-9.9
2124.100000	43.35	---	74.00	30.65	V	-9.9
4959.100000	---	38.12	54.00	15.88	V	-3.0
4960.000000	43.79	---	74.00	30.21	V	-3.0
7438.600000	---	45.36	54.00	8.64	V	2.8
7441.300000	50.76	---	74.00	23.24	V	2.8
9753.400000	---	42.60	54.00	11.40	H	5.6
9753.400000	52.53	---	74.00	21.47	H	5.6

10 GHz-18 GHz:**BLE (2 Mbps)****Low Channel: 2402 MHz**

Common Information

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-2M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6℃
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Full Spectrum



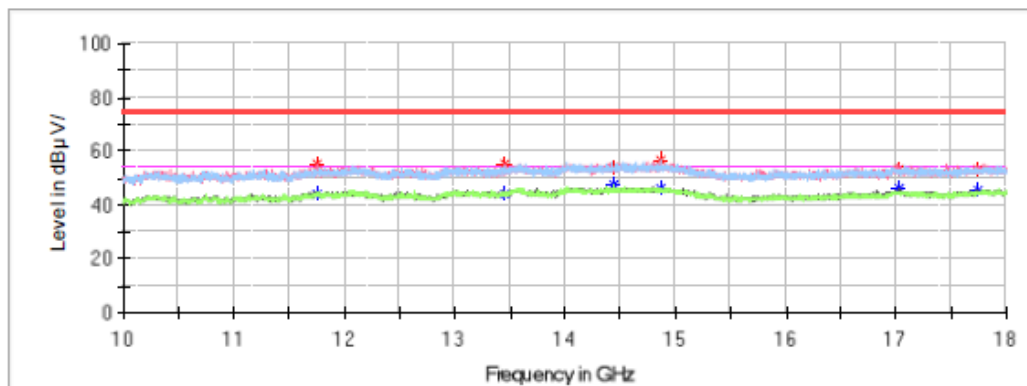
Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12137.600000	54.72	---	74.00	19.28	H	9.0
12137.600000	---	44.28	54.00	9.72	H	9.0
14067.200000	---	46.12	54.00	7.88	V	11.2
14067.200000	56.03	---	74.00	17.97	V	11.2
14451.200000	53.75	---	74.00	20.25	V	11.9
14451.200000	---	46.68	54.00	7.32	V	11.9
14728.000000	56.37	---	74.00	17.63	H	11.2
14728.000000	---	45.38	54.00	8.62	H	11.2
17075.200000	52.81	---	74.00	21.19	V	10.9
17075.200000	---	45.64	54.00	8.36	V	10.9
17971.200000	53.09	---	74.00	20.91	H	11.7
17971.200000	---	46.21	54.00	7.79	H	11.7

Middle Channel: 2440 MHz**Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-2M Middle Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	26.6°C
Humidity:	49%
Atmospheric Pressure:	101.2kPa
Test Engineer:	Destine Hu
Test Date:	2025/9/12

Full Spectrum

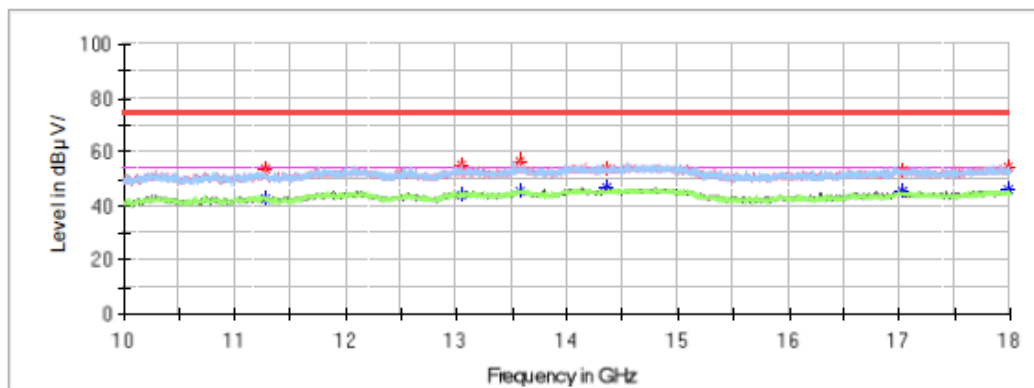
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
11761.600000	54.91	---	74.00	19.09	V	8.6
11761.600000	---	44.38	54.00	9.62	V	8.6
13459.200000	55.10	---	74.00	18.90	V	9.9
13459.200000	---	43.91	54.00	10.09	V	9.9
14441.600000	---	47.25	54.00	6.75	H	11.9
14441.600000	53.63	---	74.00	20.37	H	11.9
14867.200000	---	45.90	54.00	8.10	H	10.7
14867.200000	56.77	---	74.00	17.23	H	10.7
17024.000000	53.11	---	74.00	20.89	H	10.9
17024.000000	---	45.94	54.00	8.06	H	10.9
17748.800000	---	45.76	54.00	8.24	V	11.1
17748.800000	52.82	---	74.00	21.18	V	11.1

High Channel: 2480 MHz**Common Information**

Project No.: RSHA250529007
 EUT Model: R102
 Test Mode: Transmitting in BLE-2M High Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 26.6℃
 Humidity: 49%
 Atmospheric Pressure: 101.2kPa
 Test Engineer: Destine Hu
 Test Date: 2025/9/12

Full Spectrum

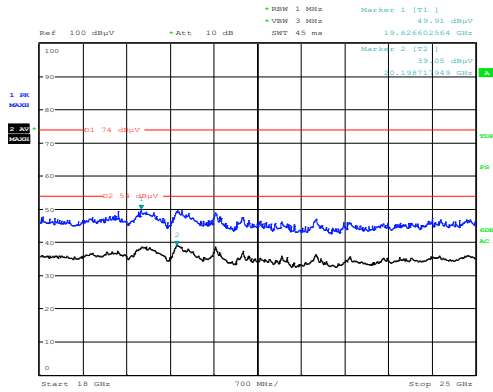
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Average (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
11283.200000	53.66	---	74.00	20.34	V	7.5
11283.200000	---	42.97	54.00	11.03	V	7.5
13041.600000	---	44.33	54.00	9.67	H	9.3
13041.600000	55.44	---	74.00	18.56	H	9.3
13574.400000	56.45	---	74.00	17.55	V	10.1
13574.400000	---	45.40	54.00	8.60	V	10.1
14363.200000	53.94	---	74.00	20.06	V	11.7
14363.200000	---	47.11	54.00	6.89	V	11.7
17028.800000	---	45.69	54.00	8.31	V	10.9
17028.800000	53.46	---	74.00	20.54	V	10.9
17988.800000	---	46.20	54.00	7.80	V	11.7
17988.800000	54.34	---	74.00	19.66	V	11.7

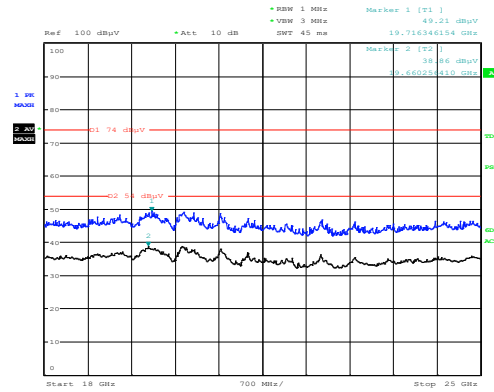
18 GHz - 25 GHz :

Transmitting in maximum output power BLE (1 Mbps) middle channel:

Horizontal



Vertical



Project No :RSHA250529007 Tester :Rugh Wu
Date: 27.AUG.2025 20:17:34

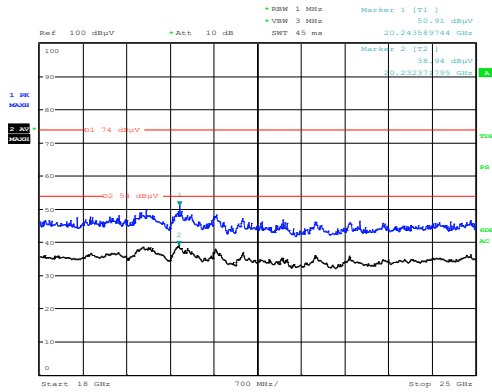
Project No :RSHA250529007 Tester :Rugh Wu
Date: 27.AUG.2025 20:48:31

Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.20	---	39.05	54	14.95	H	12.46
19.63	49.91	---	74	24.09	H	11.21
19.66	---	38.86	54	15.14	V	11.3
19.72	49.21	---	74	24.79	V	11.47

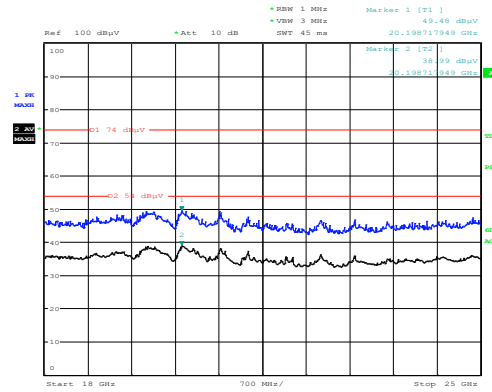
18 GHz - 25 GHz :

Transmitting in maximum output power BLE (2 Mbps) middle channel:

Horizontal



Vertical



Project No :RSHA250529007 Tester :Rugh Wu
Date: 27.AUG.2025 21:20:48

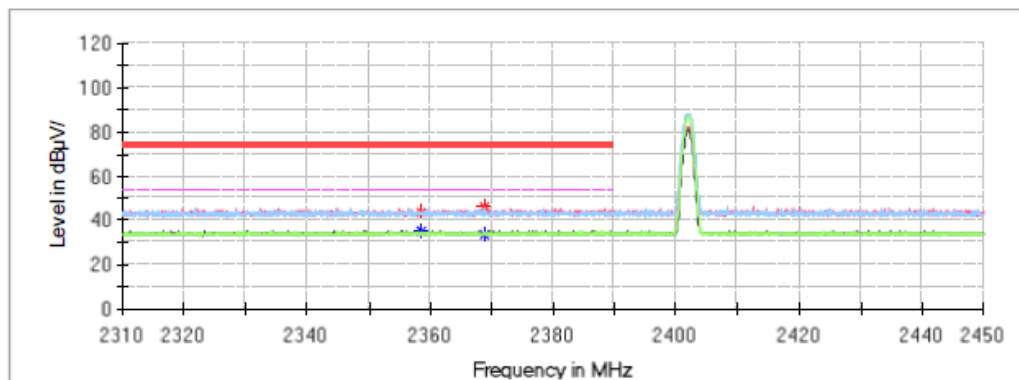
Project No :RSHA250529007 Tester :Rugh Wu
Date: 27.AUG.2025 21:53:24

Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.23	---	38.94	54	15.06	H	12.49
20.24	50.91	---	74	23.09	H	12.5
20.20	---	38.99	54	15.01	V	12.46
20.20	49.48	---	74	24.52	V	12.46

RESTRICTED BANDS EMISSION:**BLE (1 Mbps)****Left Side****Common Information**

Project No.:	RSHA250529007
EUT Model:	R102
Test Mode:	Transmitting in BLE-1M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	27.9℃
Humidity:	50%
Atmospheric Pressure:	100.8kPa
Test Engineer:	Destine Hu
Test Date:	2025/8/7

Full Spectrum

**Critical Freqs**

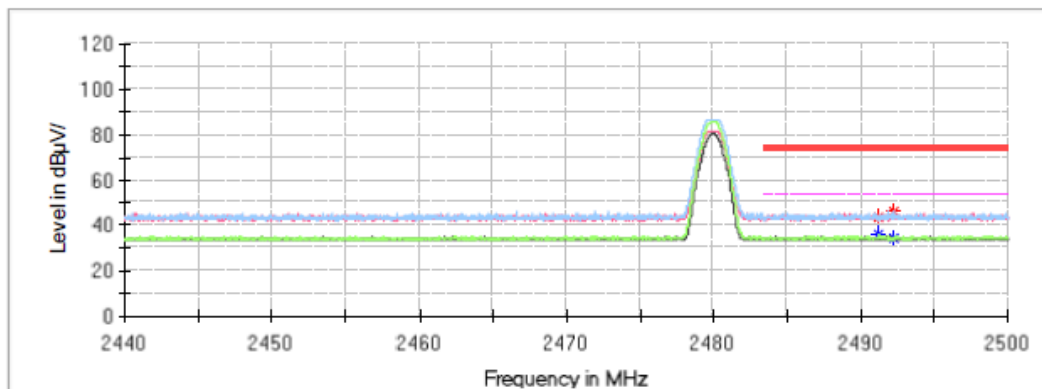
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Poi	Corr. (dB/m)
2358.552000	---	35.29	54.00	18.71	V	0.3
2358.552000	43.28	---	74.00	30.72	V	0.3
2368.856000	---	33.95	54.00	20.05	V	0.4
2368.856000	45.96	---	74.00	28.04	V	0.4

Right Side

Common Information

Project No.: RSHA250529007
EUT Model: R102
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 27.9°C
Humidity: 50%
Atmospheric Pressure: 100.8kPa
Test Engineer: Destine Hu
Test Date: 2025/8/7

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2491.264000	---	35.94	54.00	18.06	V	0.5
2491.264000	43.31	---	74.00	30.69	V	0.5
2492.272000	---	34.25	54.00	19.75	H	0.5
2492.272000	46.49	---	74.00	27.51	H	0.5

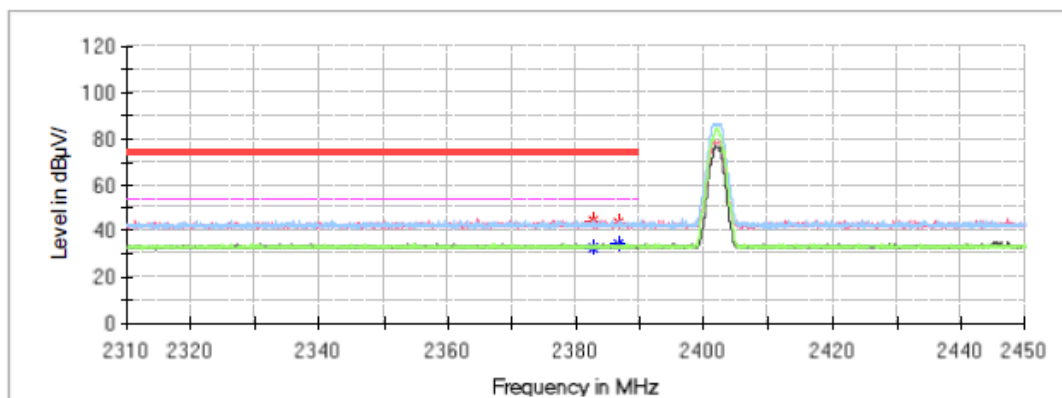
BLE (2 Mbps)

Left Side

Common Information

Project No.: RSHA250529007
EUT Model: R102
Test Mode: Transmitting in BLE-2M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 27.9℃
Humidity: 50%
Atmospheric Pressure: 100.8kPa
Test Engineer: Destine Hu
Test Date: 2025/8/7

Full Spectrum



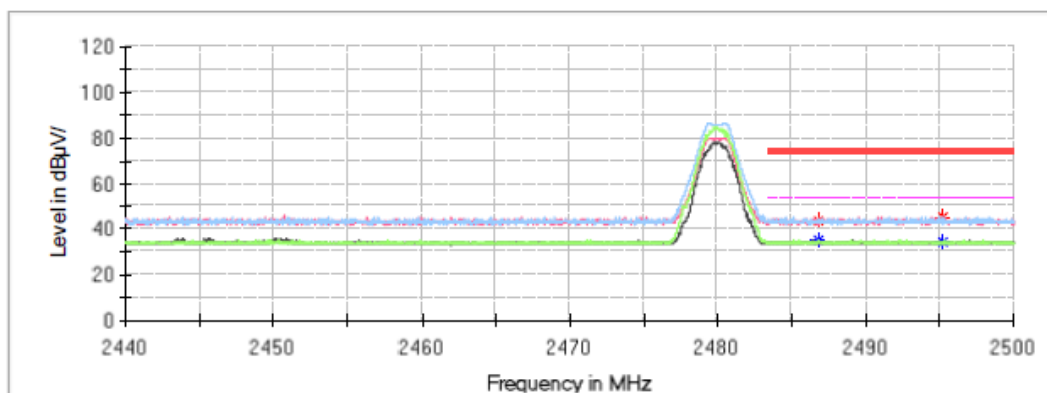
Critical Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2382.800000	44.83	---	74.00	29.17	H	0.4
2382.800000	---	33.11	54.00	20.89	H	0.4
2386.608000	43.37	---	74.00	30.63	V	0.4
2386.608000	---	34.60	54.00	19.40	V	0.4

Right Side**Common Information**

Project No.: RSHA250529007
EUT Model: R102
Test Mode: Transmitting in BLE-2M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 27.9°C
Humidity: 50%
Atmospheric Pressure: 100.8kPa
Test Engineer: Destine Hu
Test Date: 2025/8/7

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2486.800000	---	35.23	54.00	18.77	V	0.5
2486.800000	43.69	---	74.00	30.31	V	0.5
2495.200000	---	34.60	54.00	19.40	H	0.5
2495.200000	45.72	---	74.00	28.28	H	0.5

6 dB EMISSION BANDWIDTH**Environmental Conditions & Test Information**

Test Date:	2025-08-14
Temperature:	27 °C
Relative Humidity:	60 %
ATM Pressure:	101.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

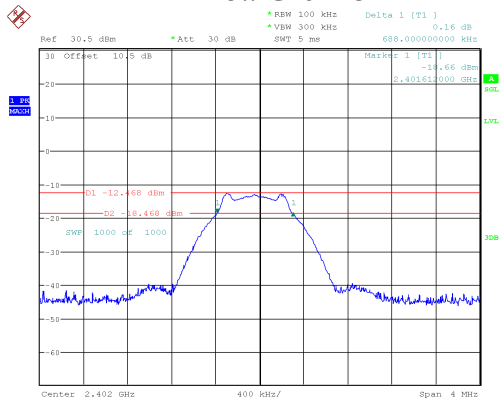
Test Result: Compliant.

EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE (1 Mbps)	Low	2402	0.688	≥ 0.5
	Middle	2440	0.676	≥ 0.5
	High	2480	0.684	≥ 0.5
BLE (2 Mbps)	Low	2402	1.368	≥ 0.5
	Middle	2440	1.338	≥ 0.5
	High	2480	1.374	≥ 0.5

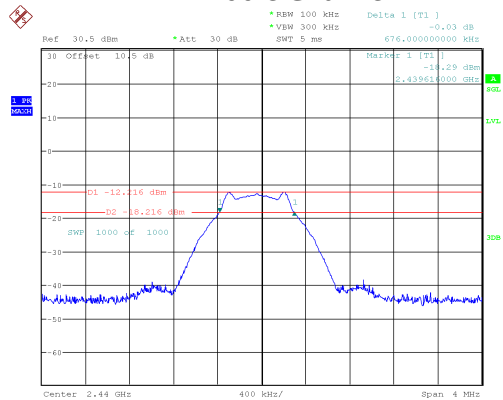
BLE (1 Mbps)

Low Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 14:57:31

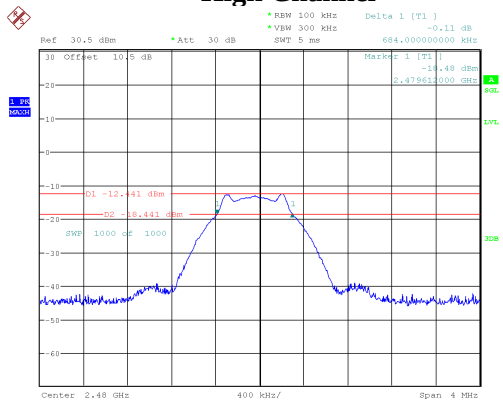
Middle Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:11:12

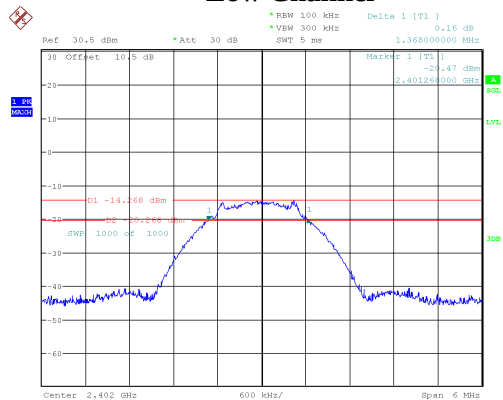
BLE (2 Mbps)

High Channel



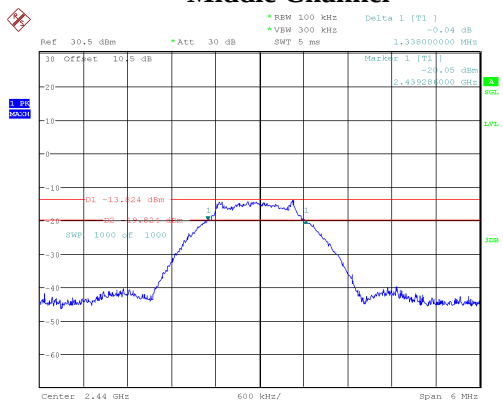
ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:19:05

Low Channel



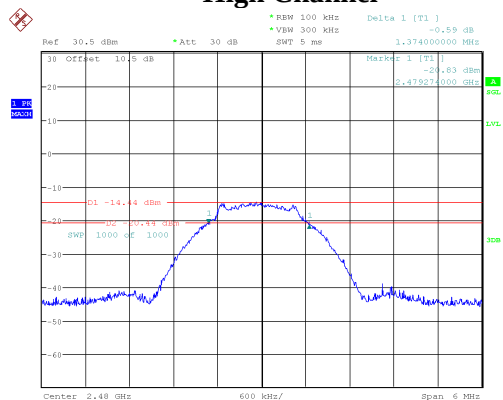
ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:33:18

Middle Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:42:52

High Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:50:46

MAXIMUM CONDUCTED OUTPUT POWER**Environmental Conditions & Test Information**

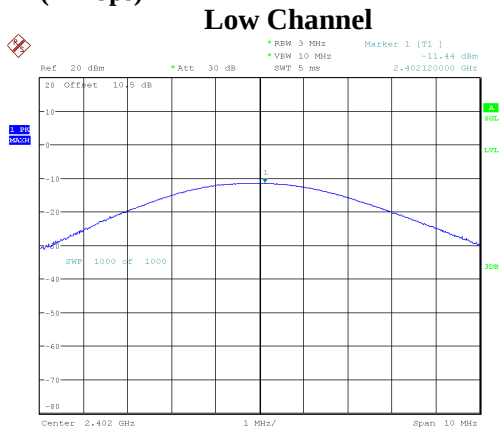
Test Date:	2025-08-14
Temperature:	27 °C
Relative Humidity:	60 %
ATM Pressure:	101.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

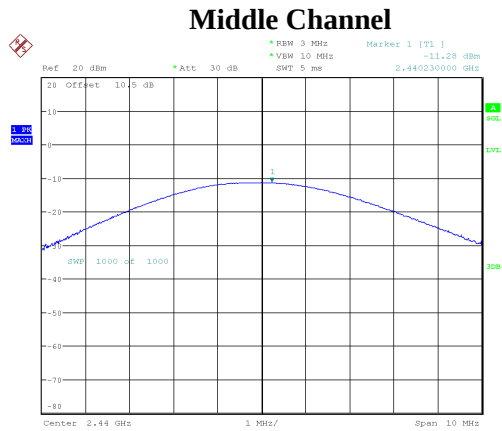
EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (1 Mbps)	Low	2402	-11.44	30	Pass
	Middle	2440	-11.28	30	Pass
	High	2480	-11.47	30	Pass
BLE (2 Mbps)	Low	2402	-11.89	30	Pass
	Middle	2440	-11.70	30	Pass
	High	2480	-12.00	30	Pass

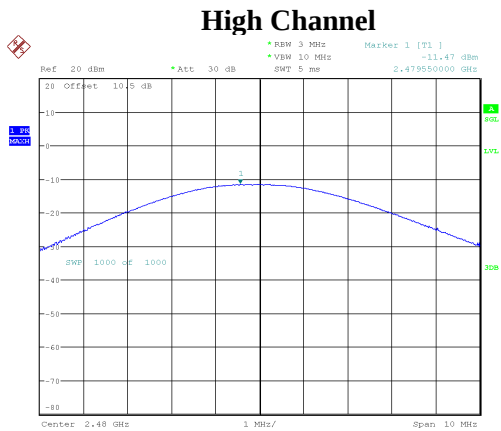
BLE (1 Mbps)



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:02:38

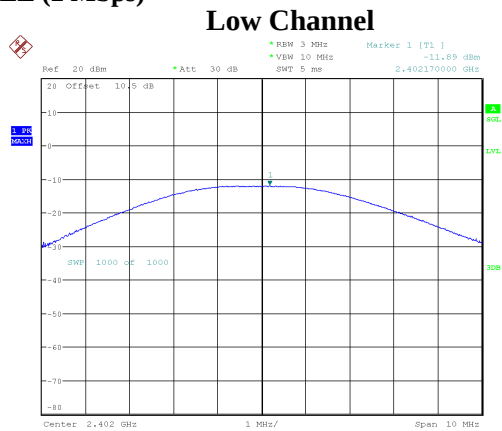


ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:12:02

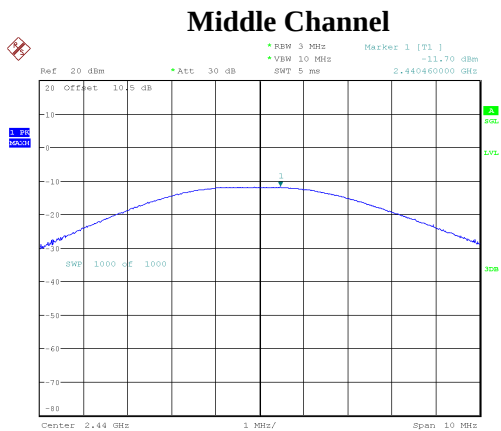


ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:29:15

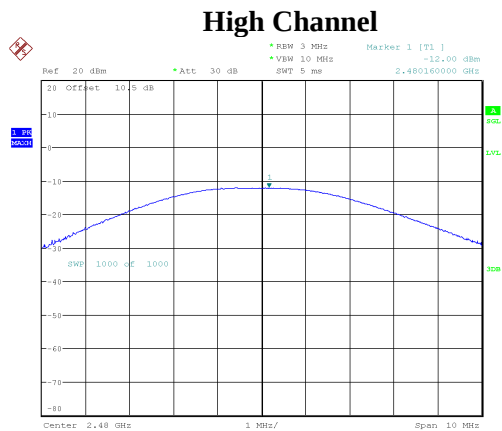
BLE (2 Mbps)



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:34:55



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:43:27



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:51:21

BAND EDGE**Environmental Conditions & Test Information**

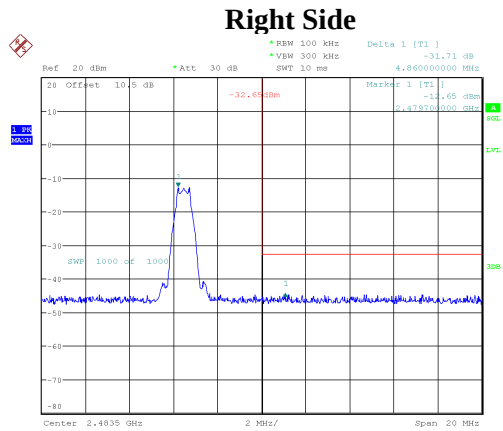
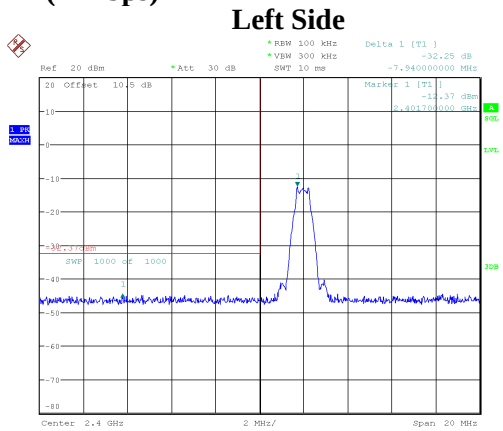
Test Date:	2025-08-14
Temperature:	27 °C
Relative Humidity:	60 %
ATM Pressure:	101.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
BLE (1 Mbps)	Low	2402	32.25	20
	High	2480	31.71	
BLE (2 Mbps)	Low	2402	28.24	
	High	2480	29.64	

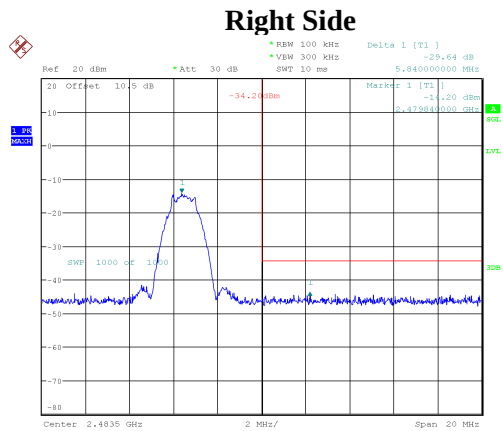
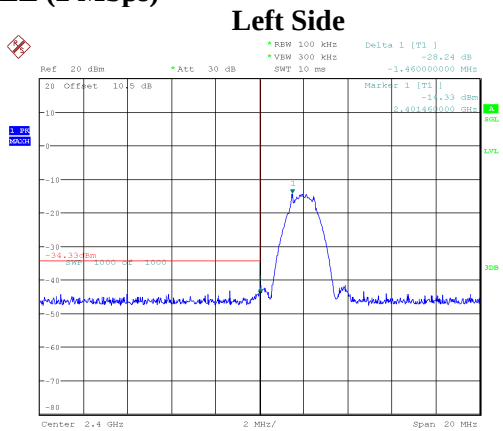
BLE (1 Mbps)



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:03:37

ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:26:14

BLE (2 Mbps)



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:39:54

ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:52:21

POWER SPECTRAL DENSITY**Environmental Conditions & Test Information**

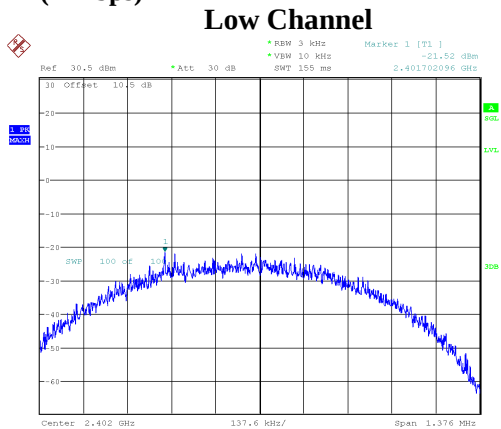
Test Date:	2025-08-14
Temperature:	27 °C
Relative Humidity:	60 %
ATM Pressure:	101.2 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

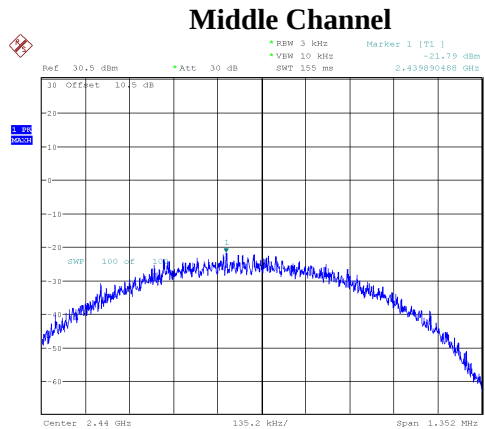
EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE (1 Mbps)	Low	2402	-21.52	≤8
	Middle	2440	-21.79	≤8
	High	2480	-21.77	≤8
BLE (2 Mbps)	Low	2402	-25.84	≤8
	Middle	2440	-26.59	≤8
	High	2480	-25.17	≤8

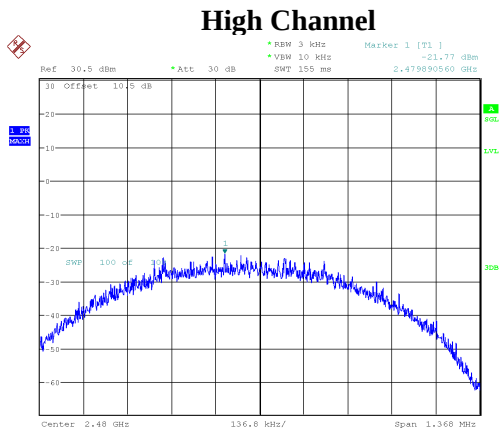
BLE (1 Mbps)



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:04:00

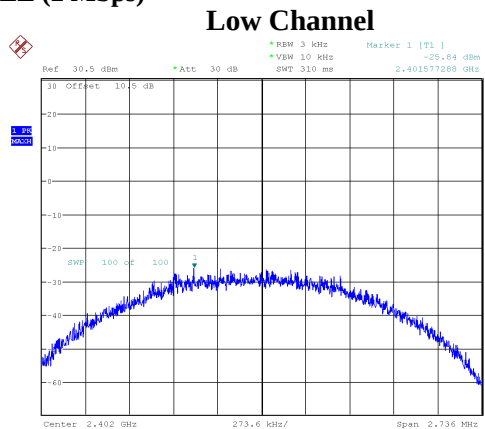


ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:12:26

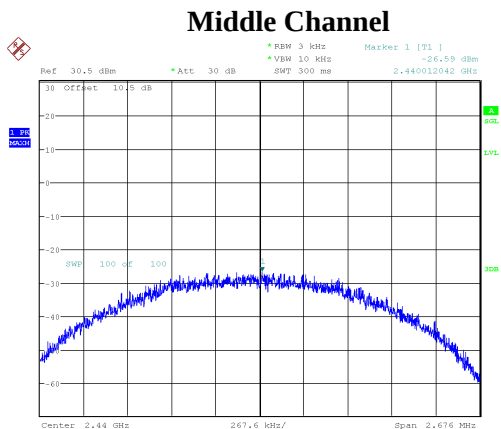


ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:26:38

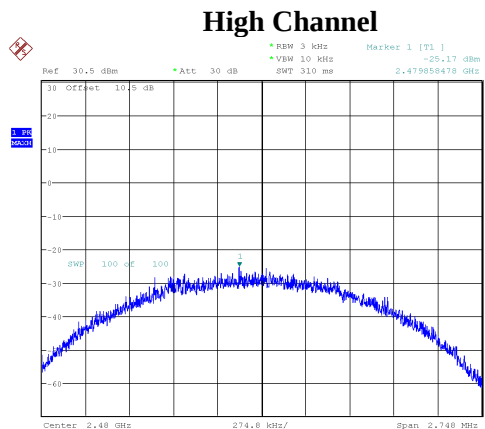
BLE (2 Mbps)



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:36:16



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:44:06



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 14.AUG.2025 15:53:02

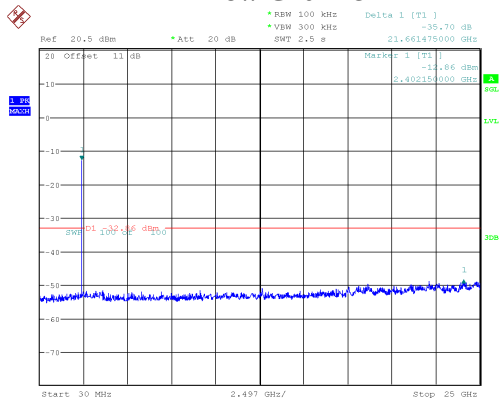
CONDUCTED SPURIOUS EMISSION**Environmental Conditions & Test Information**

Test Date:	2025-12-02
Temperature:	22 °C
Relative Humidity:	46 %
ATM Pressure:	102.3 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
BLE (1 Mbps)	Low	2402	35.70	20	Pass
	Middle	2440	34.67	20	Pass
	High	2480	35.99	20	Pass
BLE (2 Mbps)	Low	2402	34.27	20	Pass
	Middle	2440	35.23	20	Pass
	High	2480	34.87	20	Pass

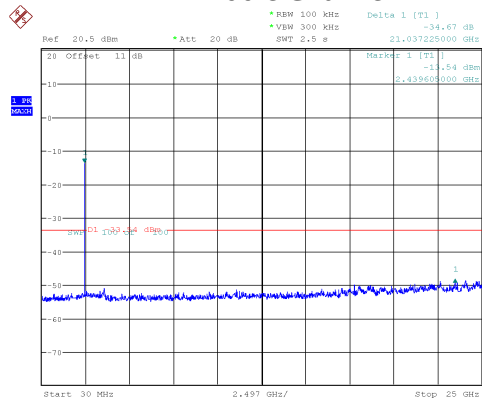
BLE (1 Mbps)

Low Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 2.DEC.2025 17:54:51

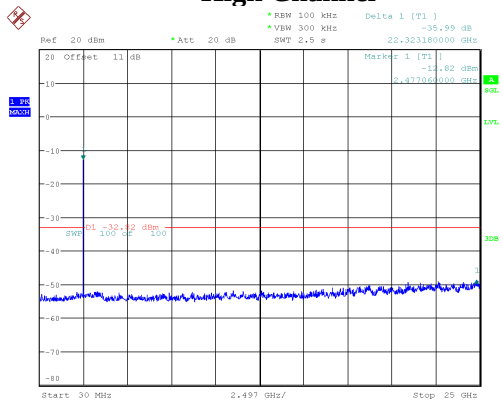
Middle Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 2.DEC.2025 18:01:50

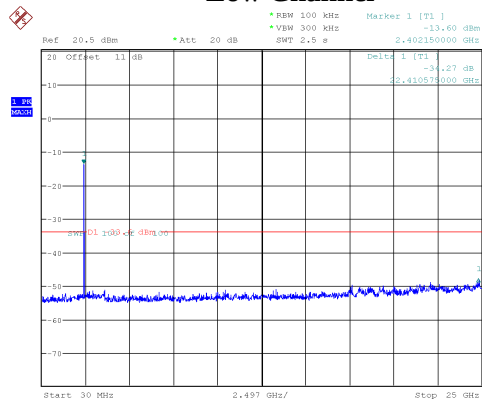
BLE (2 Mbps)

High Channel



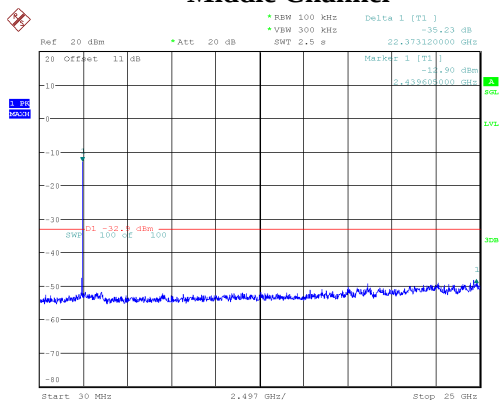
ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 2.DEC.2025 18:43:40

Low Channel



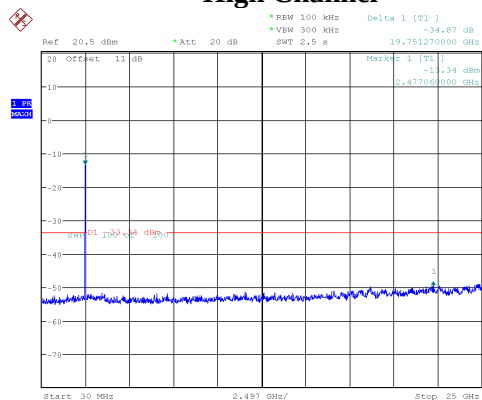
ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 2.DEC.2025 18:49:19

Middle Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 2.DEC.2025 19:23:14

High Channel



ProjectNo.:RSHA250529007 Tester:Neil Zhou
Date: 2.DEC.2025 19:30:18

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. 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.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

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