

FCC PART 15.247

TEST REPORT

For

Signify (China) Investment Co., Ltd.

Building no.9, Lane 888, Tianlin Road, Minhang District, Shanghai 200233, China

FCC ID: 2AGBW44228007014X

Report Type: Original Report	Product Name: Hue Connect
Report Number: RKS260326012-00A	
Report Date: 2026-05-22	
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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. This report contains data that are not covered by the NVLAP accreditation.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSB260326012-00A	R1V1	2026-05-22	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Signify (China) Investment Co., Ltd.
Tested Model:	44228007015
Series Model:	44228007014
Model difference:	GPIO head and relative components(see the declaration letter for the details)
Product Name:	Hue Connect
Power Supply:	DC 24V
RF Function:	BLE, ZigBee & Thread
Maximum Output Power:	BLE (125 kbps): 5.81 dBm BLE (500 kbps):5.83 dBm BLE (1 Mbps): 5.82dBm BLE (2 Mbps): 5.85 dBm ZigBee & Thread: 5.85 dBm
Operating Band /Frequency:	BLE: 2402-2480 MHz ZigBee & Thread: 2405-2480 MHz
Modulation Type:	BLE: GFSK ZigBee & Thread: O-QPSK
Channel Number:	BLE: 40 ZigBee & Thread: 16
Antenna Type:	BLE/ ZigBee & Thread: PCB Antenna
★Maximum Antenna Gain:	BLE/ ZigBee & Thread: 2.2 dBi

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

All measurement and test data in this report was gathered from production sample serial number: RKSB260326012-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2026-03-26.)

Objective

This report is prepared for *Signify (China) Investment Co., Ltd.* 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 compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024[▲], 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		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emissions	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
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 was tested with channel 0, 19 and 39.

Channel List for ZigBee & Thread mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	19	2445
12	2410	20	2450
13	2415	21	2455
14	2420	22	2460
15	2425	23	2465
16	2430	24	2470
17	2435	25	2475
18	2440	26	2480

EUT was tested with channel 11, 18 and 26.

EUT Exercise Software

The system was configured for testing in an engineering mode, which was provided by manufacturer

BLE:

RF Test Tool: Hue Approbation Tool V1.0.6.0

★Power level: 8

ZigBee & Thread:

RF Test Tool: Hue Approbation Tool V1.0.6.0

★Power level: 8

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

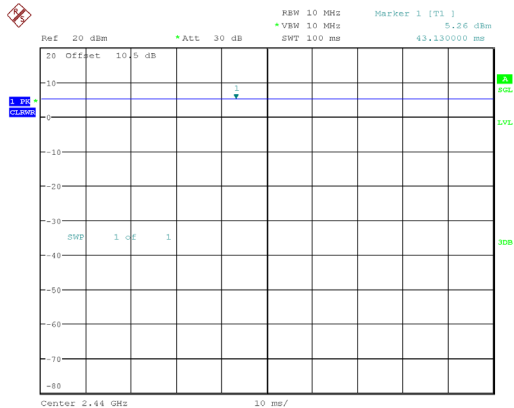
No modification was made to the EUT tested.

Environmental Conditions & Test Information

Test Date:	2026-04-09
Temperature:	20.7°C
Relative Humidity:	65 %
ATM Pressure:	100.5 kPa
Test Engineer:	Neil Zhou

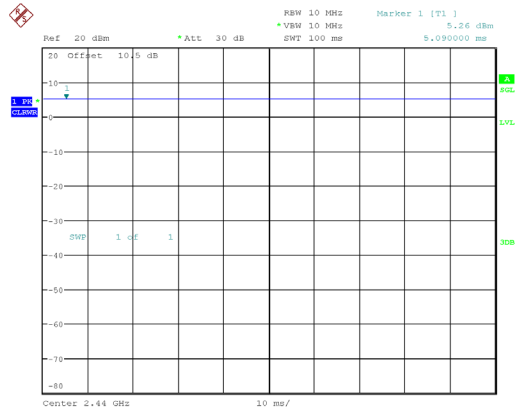
Duty Cycle:

BLE (125 kbps): Middle Channel



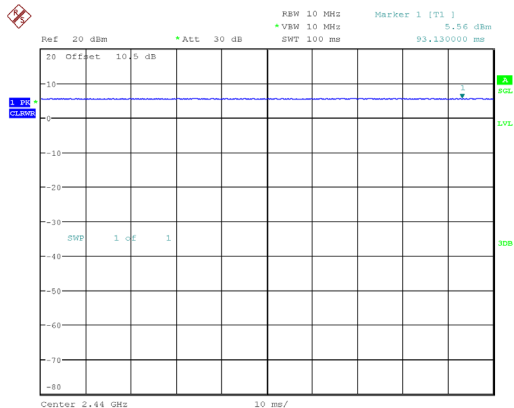
ProjectNo.:RKSB260326012 Tester:Neil Zhou
Date: 9.APR.2026 15:41:56

BLE (500 kbps): Middle Channel



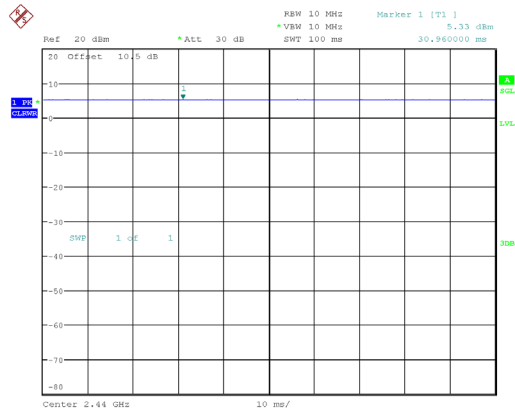
ProjectNo.:RKSB260326012 Tester:Neil Zhou
Date: 9.APR.2026 15:07:51

BLE (1 Mbps): Middle Channel

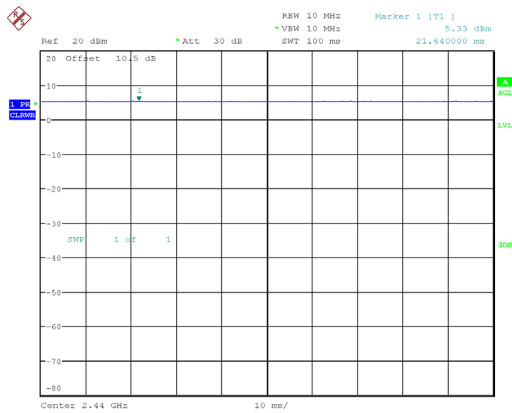


ProjectNo.:RKSB260326012 Tester:Neil Zhou
Date: 9.APR.2026 15:01:20

BLE (2 Mbps): Middle Channel



ProjectNo.:RKSB260326012 Tester:Neil Zhou
Date: 9.APR.2026 15:01:45

ZigBee & Thread: Middle Channel

ProjectNo.:RKSB260326012 Tester:Neil Zhou
Date: 9.APR.2026 14:06:31

Mode	Duty Cycle (%)	T _{on} (ms)	T _{on+off} (ms)	10log(1/x) (dB)
BLE (125 kbps)	100	100	100	/
BLE (500 kbps)	100	100	100	/
BLE (1 Mbps)	100	100	100	/
BLE (2 Mbps)	100	100	100	/
ZigBee & Thread	100	100	100	/

Note:

1. “x” means the Duty Cycle.
2. Offset(10.5dB) = Attenuator(10dB)+Cable loss(0.5dB)

Support Equipment List and Details

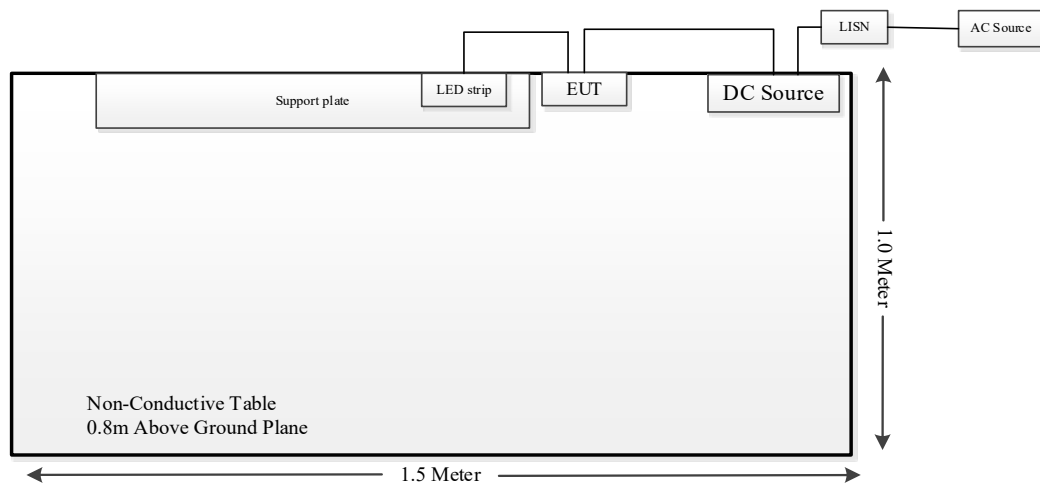
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5
Zhao Xing	DC Source	DP3020	20190901401
Signify	LED strip	/	/
/	Support plate	/	/

External I/O Cable

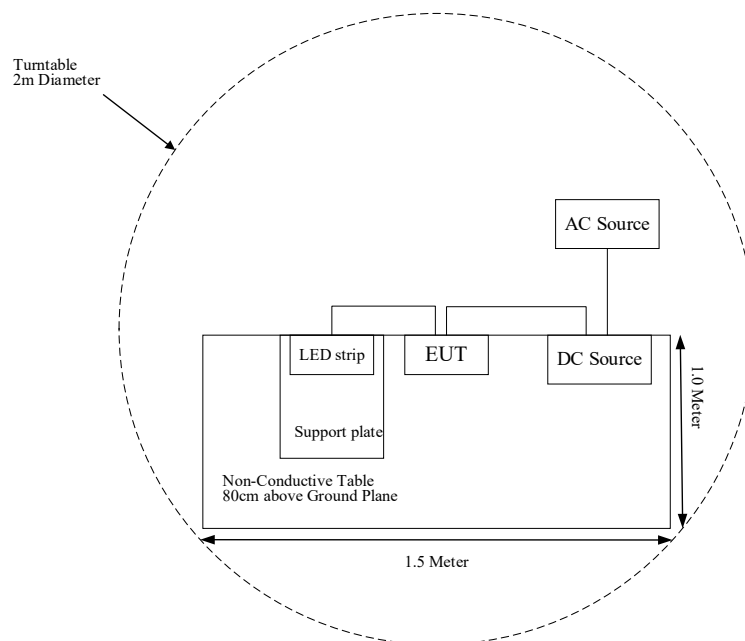
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	AC Source/LISN	DC Source
Power Cable 2	1.0	EUT	DC Source
Power Cable 3	0.1	EUT	LED Strip

Block Diagram of Test Setup

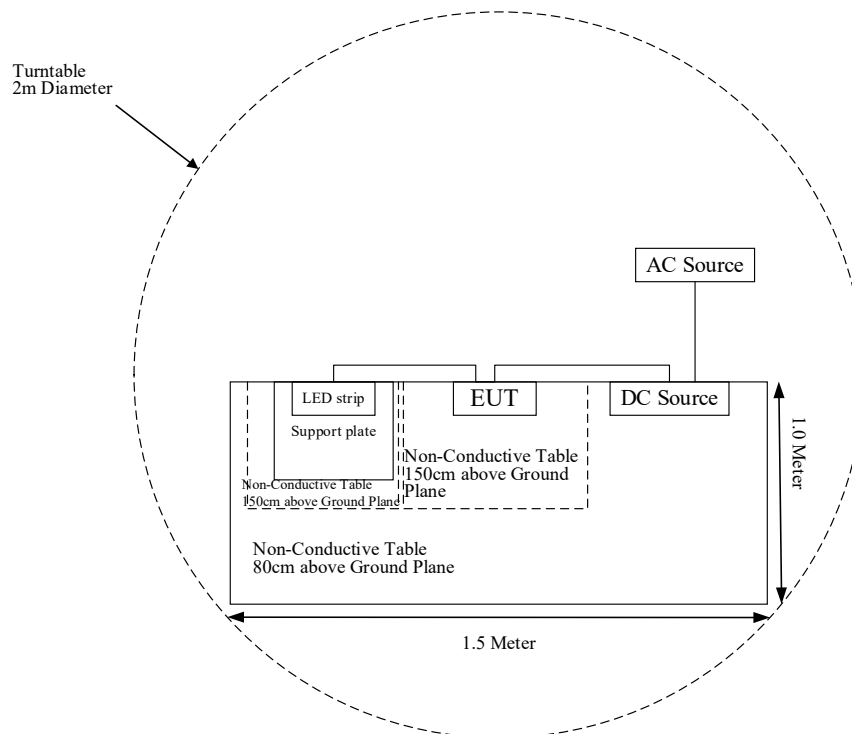
For Conducted Emissions:



For Radiated Emissions(Below 1 GHz):



For Radiated Emissions(Above 1 GHz):



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	2026-03-13	2027-03-12
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
BACL	Active Loop Antenna	1313-1A	4041511	2025-08-10	2028-08-09
Narda	6 dB Attenuator	771-6	10690812-2-1	2024-10-29	2027-10-28
Sonoma Instrument	Pre-amplifier	310N	171205	2026-03-13	2027-03-12
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-9	009	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-10	010	2026-03-13	2027-03-12
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2026-03-16	2027-03-15
EMCO	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	2026-03-16	2027-03-15
MICRO-TRONICS	Band Reject Filter	BRC50718	G034	2025-04-09	2026-04-08
				2026-04-09	2027-04-08
Narda	Attenuator	10dB	010	2026-03-13	2027-03-12
SELECTOR	Amplifier	EM18G40G	60726	2026-03-16	2027-03-15
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-25	025	2026-03-12	2027-03-11
MICRO-COAX	Coaxial Cable	Cable-11	011	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-12	012	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-13	013	2026-03-16	2027-03-15
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2026-03-16	2027-03-15
Narda	Attenuator	10dB	010	2026-03-16	2027-03-15
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2026-03-13	2027-03-12
Rohde & Schwarz	LISN	ENV216	101115	2026-03-12	2027-03-11
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2025-04-08	2026-04-07
				2026-04-08	2027-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2026-03-13	2027-03-12

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);

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	2.2	1.66	6.85	4.84	20	0.0016	1.0
ZigBee & Thread	2405~2480	2.2	1.66	6.85	4.84	20	0.0016	1.0

Note:

1. For the above tune up power were declared by the manufacturer, which is Maximum Test Output Conducted Power+1dB.
2. ZigBee & Thread and BLE cannot transmit simultaneously.

Result: The device meet FCC MPE at 20 cm distance.

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 ZigBee & Thread, and the antenna gain is 2.2 dBi, which permanently attached to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

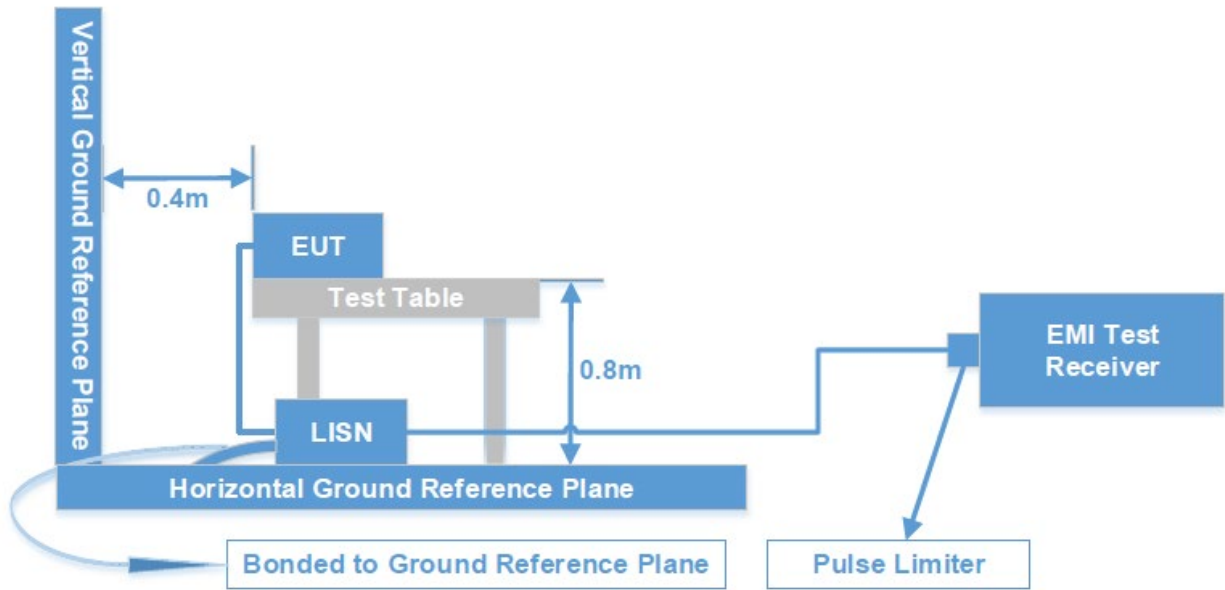
Result: Compliant.

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

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

Frequency Range	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

ANSI C63.10-2020 clause 6.2

During the conducted emission test, the EUT 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)

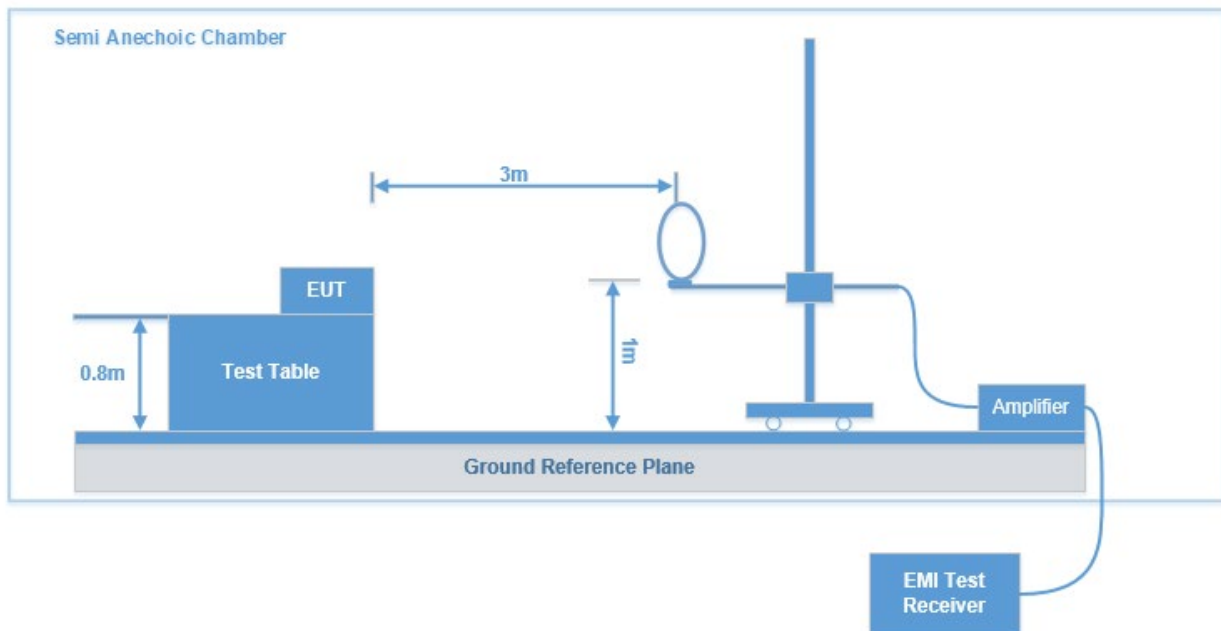
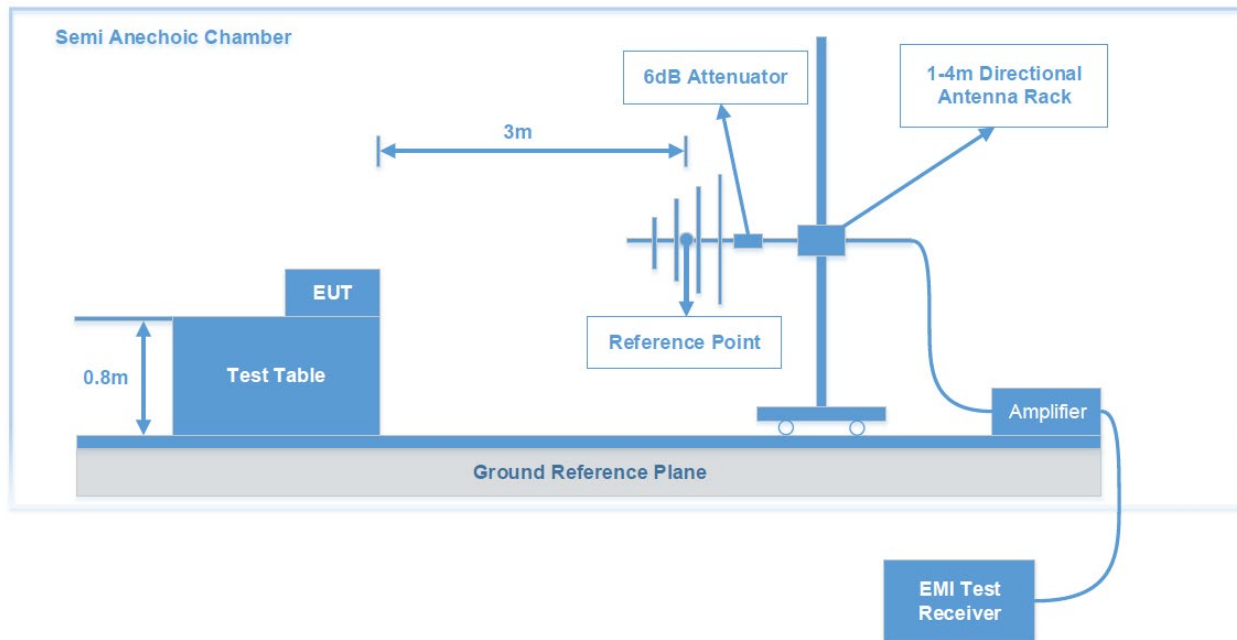
Test Results Summary

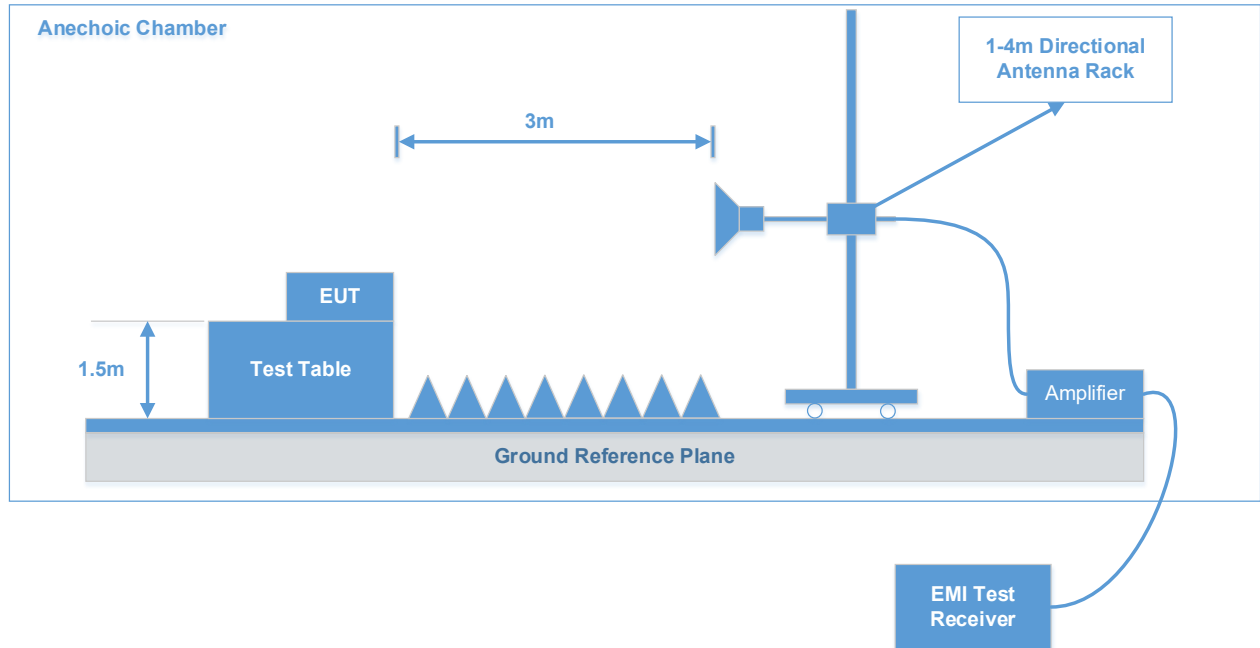
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

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:

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

For 9 kHz-30 MHz 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.

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.

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

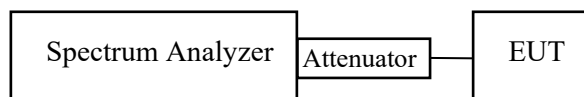
Applicable Standard

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

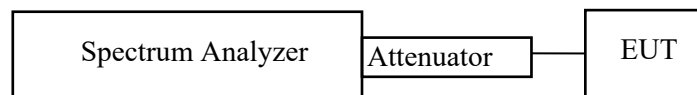
Applicable Standard

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

1. Set the RBW $\geq$ DTS bandwidth.
2. Set VBW $\geq 3 * \text{RBW}$.
3. Set span $\geq 3 * \text{RBW}$
4. Sweep time = auto couple.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. 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

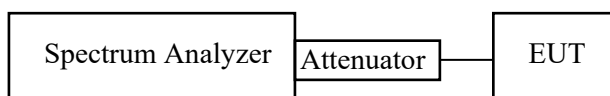
Applicable Standard

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 Section 11.11.

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

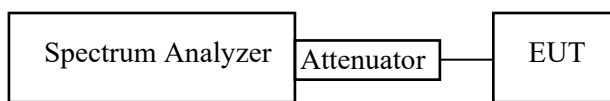
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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



Note: The offset=Attenuator (10dB) + Cable loss (3.0dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

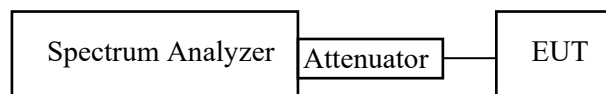
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

APPENDIX - TEST DATA

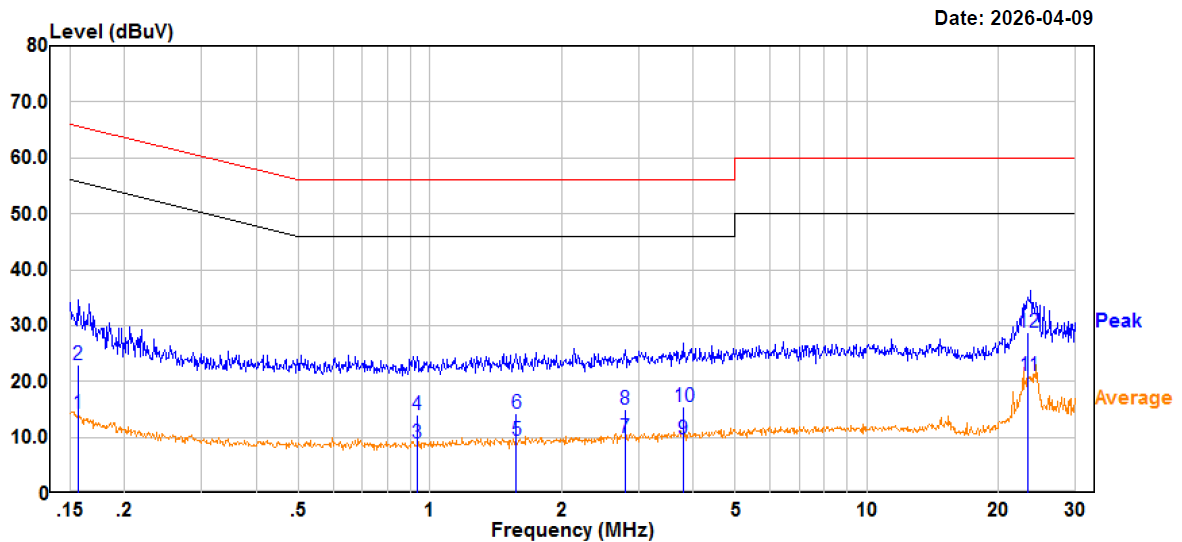
AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

Test Date:	2026-04-09	2026-04-03
Temperature:	20.7°C	20.2°C
Relative Humidity:	65 %	55%
ATM Pressure:	100.5 kPa	101.3 kPa
Test Result:	Pass	Pass
Test Engineer:	Aiden Feng	Aiden Feng

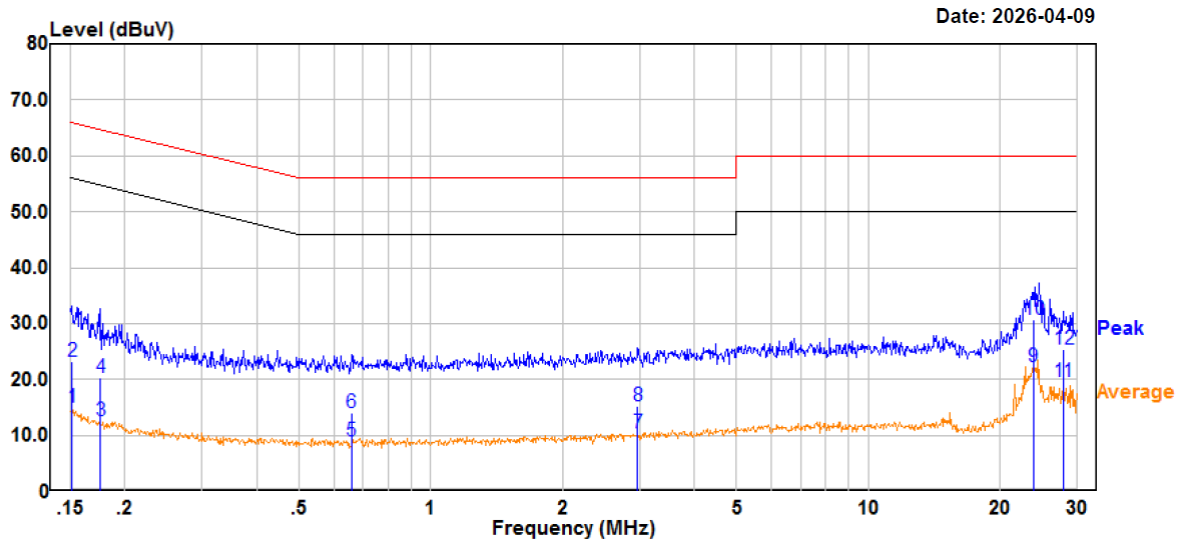
EUT operation mode: Transmitting in BLE (125 kbps) high channel (maximum output power mode)

Line:



Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKSB260326012
 Model : 44228007015
 Phase : L
 Voltage : 120V/60Hz
 Mode : BLE 125K
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
 Temperature : 20.7℃
 Humidity : 65%
 Atmospheric pressure: 100.5kPa
 Test Engineer : Aiden Feng
 Check by : Bard Liu

	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.156	-6.10	20.43	14.33	55.67	-41.34 Average
2	0.156	2.50	20.43	22.93	65.67	-42.74 QP
3	0.934	-11.20	20.21	9.01	46.00	-36.99 Average
4	0.934	-6.10	20.21	14.11	56.00	-41.89 QP
5	1.577	-10.69	20.24	9.55	46.00	-36.45 Average
6	1.577	-5.99	20.24	14.25	56.00	-41.75 QP
7	2.797	-10.21	20.25	10.04	46.00	-35.96 Average
8	2.797	-5.21	20.25	15.04	56.00	-40.96 QP
9	3.791	-10.50	20.19	9.69	46.00	-36.31 Average
10	3.791	-4.80	20.19	15.39	56.00	-40.61 QP
11	23.382	0.49	20.62	21.11	50.00	-28.89 Average
12	23.382	8.19	20.62	28.81	60.00	-31.19 QP

Neutral:

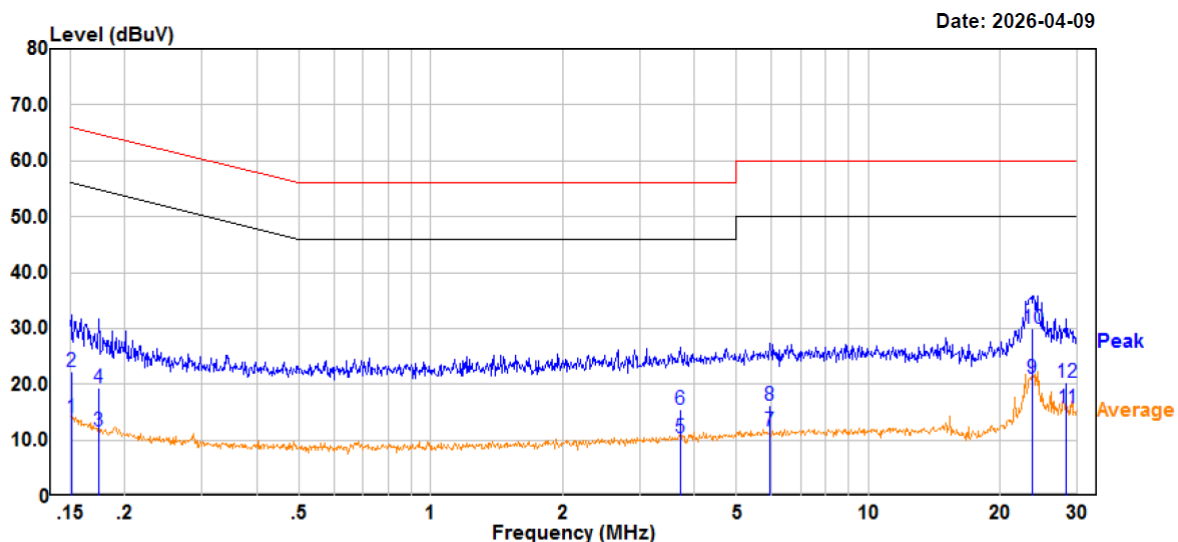
Trace: 1

Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKSB260326012
 Model : 44228007015
 Phase : N
 Voltage : 120V/60Hz
 Mode : BLE 125K
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
 Temperature : 20.7°C
 Humidity : 65%
 Atmospheric pressure: 100.5kPa
 Test Engineer : Aiden Feng
 Check by : Bard Liu

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	-5.50	20.40	14.90	55.92	-41.02	Average
2	0.152	2.70	20.40	23.10	65.92	-42.82	QP
3	0.176	-7.80	20.42	12.62	54.68	-42.06	Average
4	0.176	-0.10	20.42	20.32	64.68	-44.36	QP
5	0.659	-11.30	20.24	8.94	46.00	-37.06	Average
6	0.659	-6.20	20.24	14.04	56.00	-41.96	QP
7	2.970	-9.90	20.23	10.33	46.00	-35.67	Average
8	2.970	-5.10	20.23	15.13	56.00	-40.87	QP
9	23.853	1.50	20.64	22.14	50.00	-27.86	Average
10	23.853	10.10	20.64	30.74	60.00	-29.26	QP
11	27.839	-1.21	20.71	19.50	50.00	-30.50	Average
12	27.839	4.69	20.71	25.40	60.00	-34.60	QP

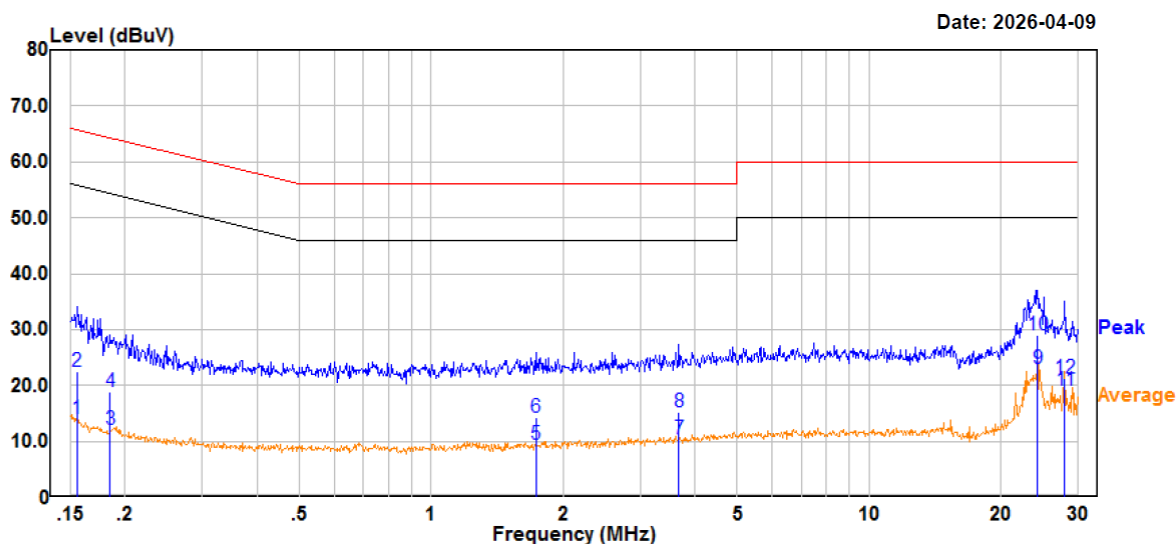
EUT operation mode: Transmitting in BLE (500 kbps) high channel (maximum output power mode)

Line:



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSB260326012
Model : 44228007015
Phase : L
Voltage : 120V/60Hz
Mode : BLE 500K
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 20.7℃
Humidity : 65%
Atmospheric pressure: 100.5kPa
Test Engineer : Aiden Feng
Check by : Bard Liu

	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.151	-6.50	20.42	13.92	55.96	-42.04 Average
2	0.151	1.80	20.42	22.22	65.96	-43.74 QP
3	0.174	-8.90	20.45	11.55	54.76	-43.21 Average
4	0.174	-1.00	20.45	19.45	64.76	-45.31 QP
5	3.716	-9.70	20.19	10.49	46.00	-35.51 Average
6	3.716	-4.80	20.19	15.39	56.00	-40.61 QP
7	5.938	-8.59	20.10	11.51	50.00	-38.49 Average
8	5.938	-3.79	20.10	16.31	60.00	-43.69 QP
9	23.617	0.50	20.62	21.12	50.00	-28.88 Average
10	23.617	9.40	20.62	30.02	60.00	-29.98 QP
11	28.399	-5.00	20.71	15.71	50.00	-34.29 Average
12	28.399	-0.30	20.71	20.41	60.00	-39.59 QP

Neutral:

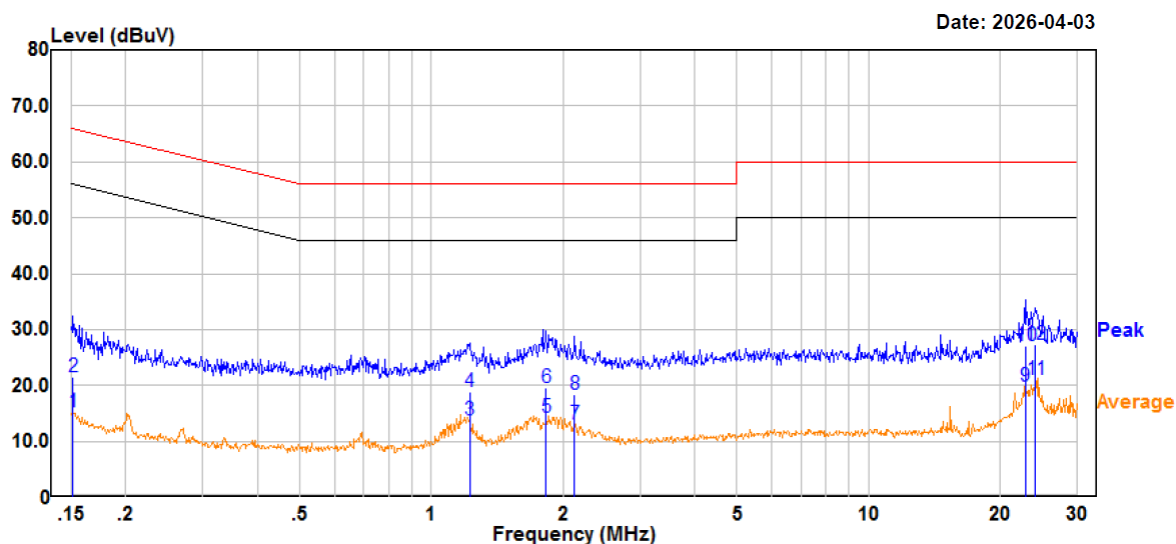
Trace: 1

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSB260326012
Model : 44228007015
Phase : N
Voltage : 120V/60Hz
Mode : BLE 500K
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 20.7°C
Humidity : 65%
Atmospheric pressure: 100.5kPa
Test Engineer : Aiden Feng
Check by : Bard Liu

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.155	-6.30	20.41	14.11	55.71	-41.60	Average
2	0.155	2.00	20.41	22.41	65.71	-43.30	QP
3	0.185	-8.31	20.43	12.12	54.26	-42.14	Average
4	0.185	-1.61	20.43	18.82	64.26	-45.44	QP
5	1.734	-10.90	20.25	9.35	46.00	-36.65	Average
6	1.734	-6.00	20.25	14.25	56.00	-41.75	QP
7	3.680	-9.70	20.20	10.50	46.00	-35.50	Average
8	3.680	-4.90	20.20	15.30	56.00	-40.70	QP
9	24.213	2.39	20.66	23.05	50.00	-26.95	Average
10	24.213	8.39	20.66	29.05	60.00	-30.95	QP
11	27.978	-1.61	20.71	19.10	50.00	-30.90	Average
12	27.978	0.59	20.71	21.30	60.00	-38.70	QP

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

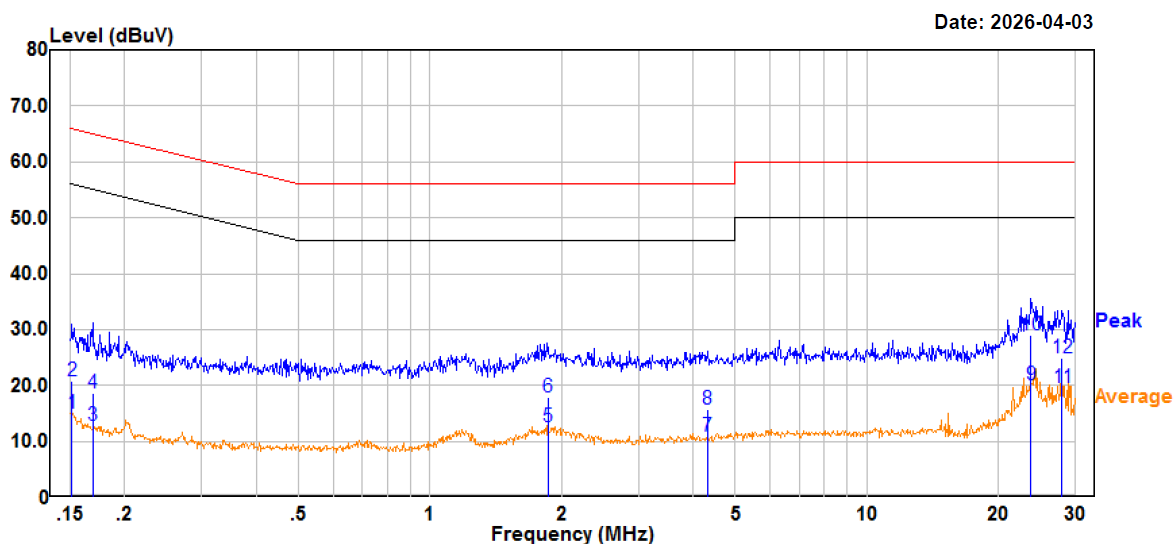
Line:



Trace: 1

Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKS260326012
 Model : 44228007015
 Phase : L
 Voltage : 120V/60Hz
 Mode : BLE 1M
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
 Temperature : 20.2°C
 Humidity : 55%
 Atmospheric pressure: 101.3kPa
 Test Engineer : Aiden Feng
 Check by : Tim Wang

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	-5.20	20.41	15.21	55.92	-40.71	Average
2	0.152	1.00	20.41	21.41	65.92	-44.51	QP
3	1.223	-6.30	20.20	13.90	46.00	-32.10	Average
4	1.223	-1.30	20.20	18.90	56.00	-37.10	QP
5	1.831	-6.10	20.28	14.18	46.00	-31.82	Average
6	1.831	-0.70	20.28	19.58	56.00	-36.42	QP
7	2.127	-7.30	20.29	12.99	46.00	-33.01	Average
8	2.127	-2.00	20.29	18.29	56.00	-37.71	QP
9	22.807	-0.71	20.60	19.89	50.00	-30.11	Average
10	22.807	6.39	20.60	26.99	60.00	-33.01	QP
11	24.092	0.40	20.64	21.04	50.00	-28.96	Average
12	24.092	6.60	20.64	27.24	60.00	-32.76	QP

Neutral:

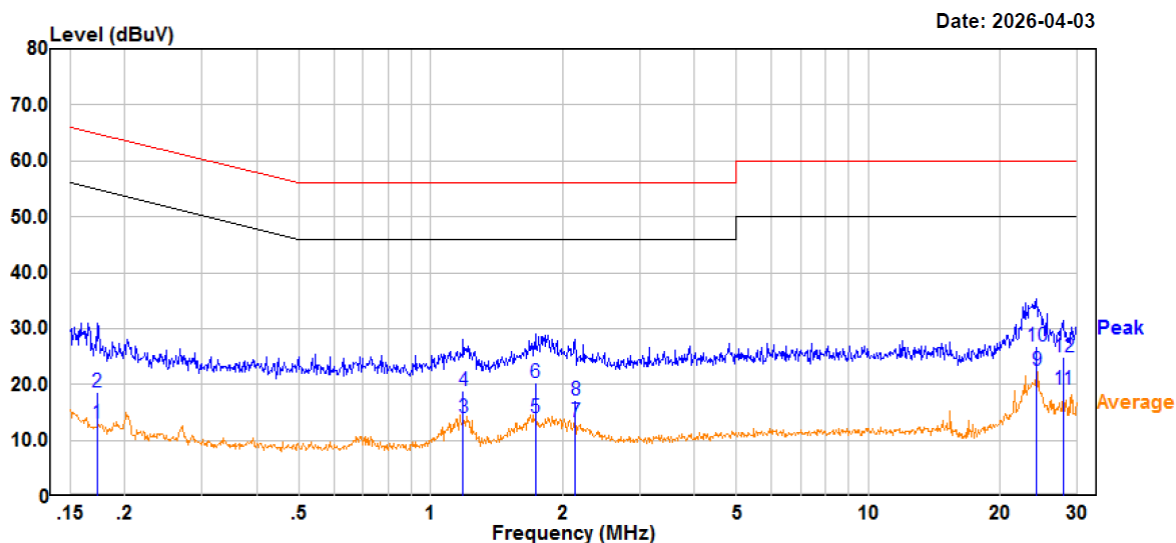
Trace: 1

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSB260326012
Model : 44228007015
Phase : N
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 20.2℃
Humidity : 55%
Atmospheric pressure: 101.3kPa
Test Engineer : Aiden Feng
Check by : Tim Wang

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	-5.50	20.39	14.89	55.92	-41.03	Average
2	0.152	0.50	20.39	20.89	65.92	-45.03	QP
3	0.169	-7.70	20.41	12.71	55.01	-42.30	Average
4	0.169	-1.70	20.41	18.71	65.01	-46.30	QP
5	1.859	-7.80	20.27	12.47	46.00	-33.53	Average
6	1.859	-2.30	20.27	17.97	56.00	-38.03	QP
7	4.316	-9.31	20.19	10.88	46.00	-35.12	Average
8	4.316	-4.41	20.19	15.78	56.00	-40.22	QP
9	23.735	-0.60	20.64	20.04	50.00	-29.96	Average
10	23.735	8.40	20.64	29.04	60.00	-30.96	QP
11	27.978	-1.10	20.69	19.59	50.00	-30.41	Average
12	27.978	4.10	20.69	24.79	60.00	-35.21	QP

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

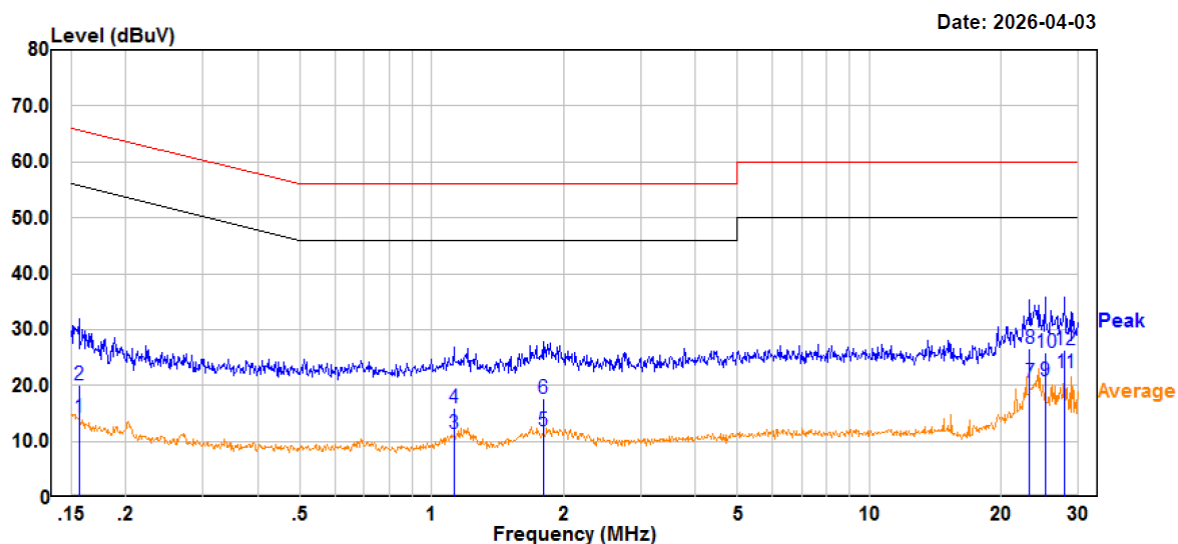
Line:



Trace: 1

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKS260326012
Model : 44228007015
Phase : L
Voltage : 120V/60Hz
Mode : BLE 2M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 20.2℃
Humidity : 55%
Atmospheric pressure: 101.3kPa
Test Engineer : Aiden Feng
Check by : Tim Wang

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.172	-7.30	20.44	13.14	54.84	-41.70	Average
2	0.172	-1.80	20.44	18.64	64.84	-46.20	QP
3	1.187	-6.09	20.19	14.10	46.00	-31.90	Average
4	1.187	-1.29	20.19	18.90	56.00	-37.10	QP
5	1.734	-6.30	20.27	13.97	46.00	-32.03	Average
6	1.734	0.10	20.27	20.37	56.00	-35.63	QP
7	2.137	-6.90	20.29	13.39	46.00	-32.61	Average
8	2.137	-3.00	20.29	17.29	56.00	-38.71	QP
9	24.213	1.80	20.64	22.44	50.00	-27.56	Average
10	24.213	6.10	20.64	26.74	60.00	-33.26	QP
11	27.839	-1.50	20.69	19.19	50.00	-30.81	Average
12	27.839	4.30	20.69	24.99	60.00	-35.01	QP

Neutral:

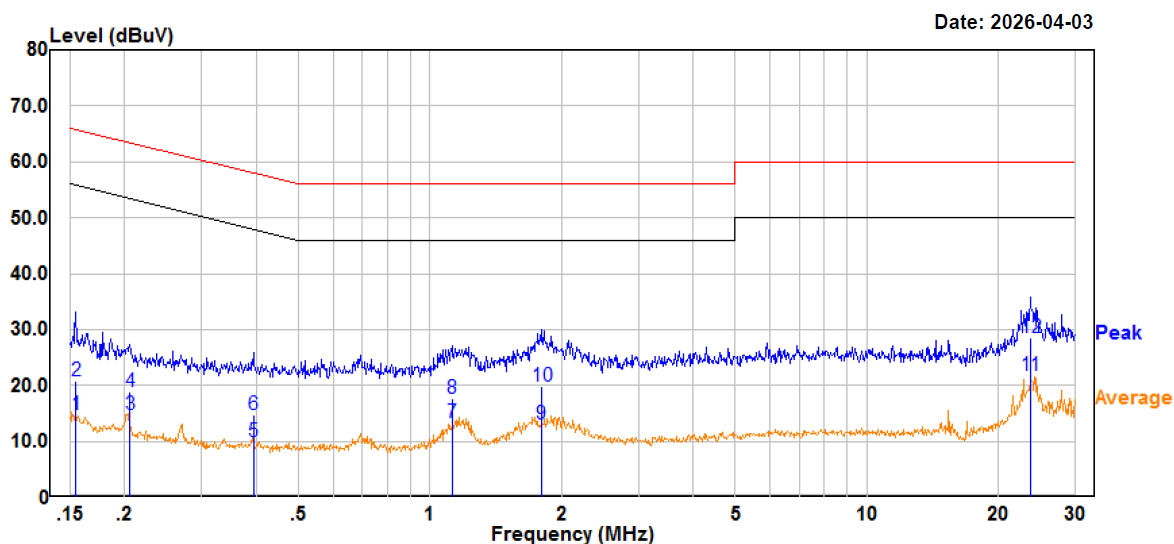
Trace: 1

Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKSB260326012
 Model : 44228007015
 Phase : N
 Voltage : 120V/60Hz
 Mode : BLE 2M
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
 Temperature : 20.2°C
 Humidity : 55%
 Atmospheric pressure: 101.3kPa
 Test Engineer : Aiden Feng
 Check by : Tim Wang

	Freq	Read		Limit	Over	
	MHz	Level	Factor	Level	Line	Limit
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.156	-6.10	20.40	14.30	55.67	-41.37
2	0.156	-0.30	20.40	20.10	65.67	-45.57
3	1.124	-8.90	20.19	11.29	46.00	-34.71
4	1.124	-4.30	20.19	15.89	56.00	-40.11
5	1.795	-8.30	20.26	11.96	46.00	-34.04
6	1.795	-2.60	20.26	17.66	56.00	-38.34
7	23.266	-0.01	20.63	20.62	50.00	-29.38
8	23.266	5.99	20.63	26.62	60.00	-33.38
9	25.198	0.21	20.67	20.88	50.00	-29.12
10	25.198	5.31	20.67	25.98	60.00	-34.02
11	27.978	1.60	20.69	22.29	50.00	-27.71
12	27.978	5.60	20.69	26.29	60.00	-33.71

EUT operation mode: Transmitting in ZigBee & Thread high channel (maximum output power mode)

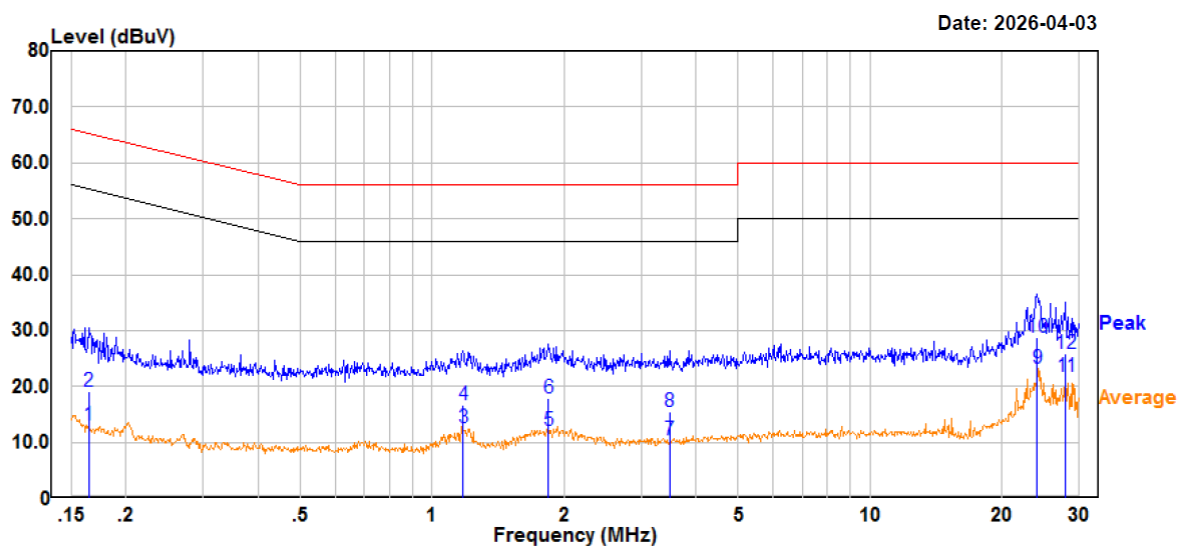
Line:



Trace: 1

Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKSB260326012
 Model : 44228007015
 Phase : L
 Voltage : 120V/60Hz
 Mode : ZigBee & Thread
 Test Equipment : ENV216,ESR3
 Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
 Temperature : 20.2℃
 Humidity : 55%
 Atmospheric pressure: 101.3kPa
 Test Engineer : Aiden Feng
 Check by : Tim Wang

	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.155	-5.60	20.42	14.82	55.75	-40.93 Average
2	0.155	0.40	20.42	20.82	65.75	-44.93 QP
3	0.205	-5.70	20.47	14.77	53.39	-38.62 Average
4	0.205	-1.70	20.47	18.77	63.39	-44.62 QP
5	0.394	-10.39	20.30	9.91	47.97	-38.06 Average
6	0.394	-5.49	20.30	14.81	57.97	-43.16 QP
7	1.124	-6.90	20.19	13.29	46.00	-32.71 Average
8	1.124	-2.50	20.19	17.69	56.00	-38.31 QP
9	1.795	-7.29	20.27	12.98	46.00	-33.02 Average
10	1.795	-0.39	20.27	19.88	56.00	-36.12 QP
11	23.617	1.20	20.62	21.82	50.00	-28.18 Average
12	23.617	7.90	20.62	28.52	60.00	-31.48 QP

Neutral:

Trace: 1

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSB260326012
Model : 44228007015
Phase : N
Voltage : 120V/60Hz
Mode : ZigBee & Thread
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 20.2°C
Humidity : 55%
Atmospheric pressure: 101.3kPa
Test Engineer : Aiden Feng
Check by : Tim Wang

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.164	-7.41	20.41	13.00	55.25	-42.25	Average
2	0.164	-1.21	20.41	19.20	65.25	-46.05	QP
3	1.175	-7.59	20.19	12.60	46.00	-33.40	Average
4	1.175	-3.59	20.19	16.60	56.00	-39.40	QP
5	1.840	-8.21	20.27	12.06	46.00	-33.94	Average
6	1.840	-2.31	20.27	17.96	56.00	-38.04	QP
7	3.483	-9.70	20.22	10.52	46.00	-35.48	Average
8	3.483	-4.80	20.22	15.42	56.00	-40.58	QP
9	24.092	2.50	20.65	23.15	50.00	-26.85	Average
10	24.092	8.10	20.65	28.75	60.00	-31.25	QP
11	27.978	1.10	20.69	21.79	50.00	-28.21	Average
12	27.978	5.30	20.69	25.99	60.00	-34.01	QP

SPURIOUS EMISSIONS**Environmental Conditions & Test Information**

Frequency Range:	9kHz-30MHz	30MHz - 1GHz	1GHz-18GHz	18 GHz - 25 GHz
Test Date:	2026-04-03	2026-04-03	2026-05-08	2026-05-09
Temperature:	19.3℃	19.3℃	22.1 ℃	22.6℃
Relative Humidity:	55%	55%	51 %	53 %
ATM Pressure:	101.3 kPa	101.3 kPa	102.4 kPa	102.2 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

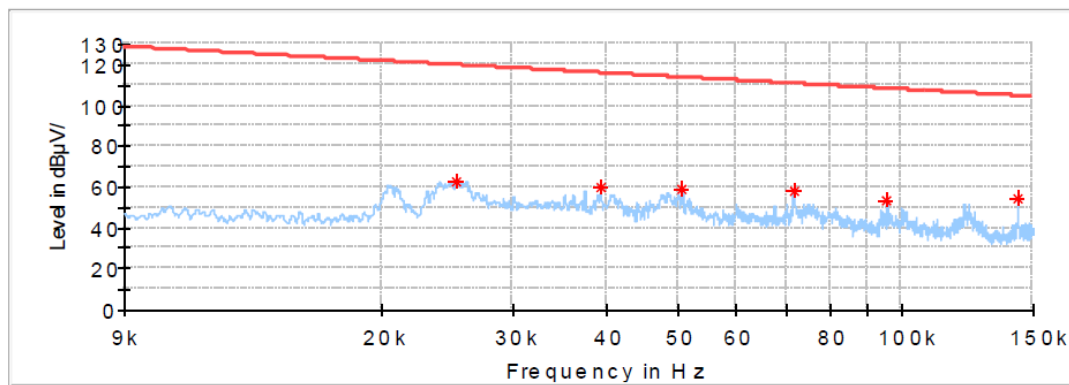
Test Result: Compliant.

EUT operation mode: Transmitting

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

For BLE Mode:**9 kHz-30MHz:** (Transmitting in maximum output power mode BLE (125 kbps) high channel)**Parallel(worst case)****9kHz-150kHz****Common Information**

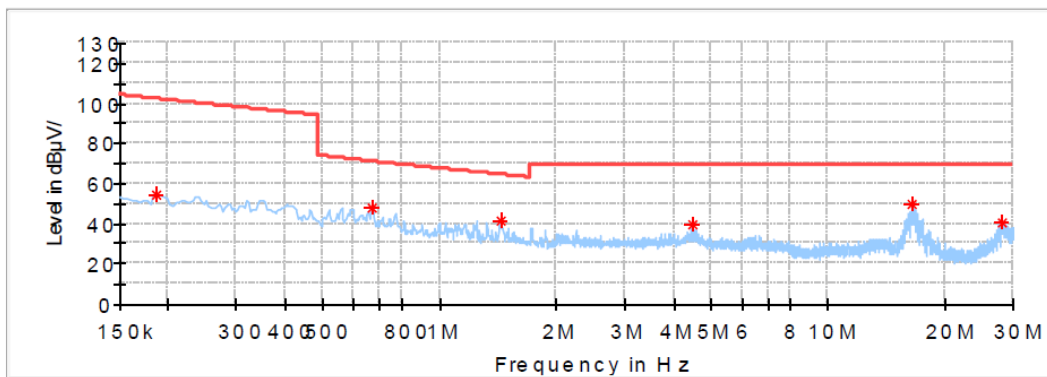
Project No:	RKSB260326012
EUT Model:	44228007015
Test Mode:	Transmitting in BLE 125k mode high channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW:200 Hz, VBW:1 kHz, Sweep Time: Auto
Temperature:	19.3°C
Humidity:	55%
Barometric Pressure:	101.3kPa
Test Engineer:	Scarf Yang
Check by:	Winnie Yang
Test Date:	2026/4/3

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.025162	62.91	119.58	56.67	Parallel	-0.1
0.039368	59.70	115.70	56.00	Parallel	-1.5
0.050683	59.10	113.51	54.41	Parallel	-3.3
0.071604	57.93	110.51	52.58	Parallel	-5.8
0.095486	53.92	108.01	54.09	Parallel	-8.1
0.143232	54.33	104.48	50.14	Parallel	-10.3

150kHz-30MHz**Common Information**

Project No: RKS260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 125k mode high channel
 Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
 Test Equipment: ESCI, 1313-1A, 310N
 Receiver Setting: RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
 Temperature: 19.3°C
 Humidity: 55%
 Barometric Pressure: 101.3 kPa
 Test Engineer: Scarf Yang
 Check by: Winnie Yang
 Test Date: 2026/4/3

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
0.187312	54.35	102.07	47.72	Parallel	-12.2
0.672375	48.36	70.89	22.53	Parallel	-23.9
1.437281	41.68	64.35	22.67	Parallel	-28.6
4.493175	39.21	69.54	30.33	Parallel	-31.3
16.496606	50.16	69.54	19.38	Parallel	-32.6
28.014975	40.73	69.54	28.81	Parallel	-32.9

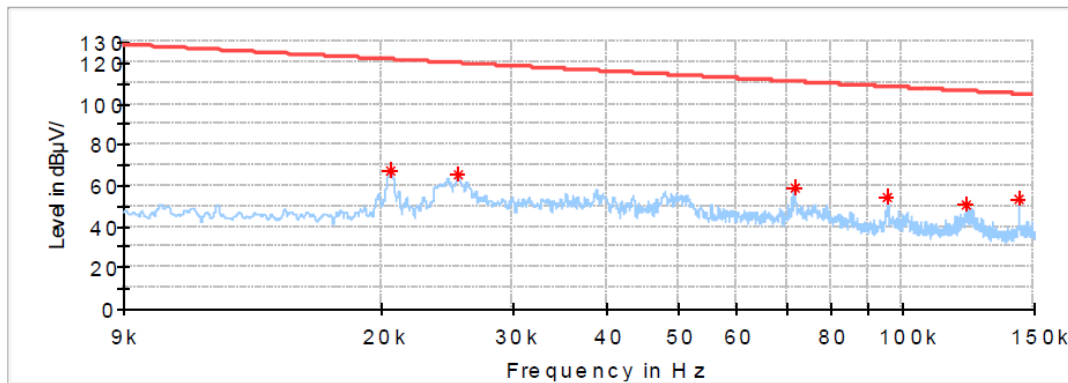
9 kHz-30MHz: (Transmitting in maximum output power mode BLE (500 kbps) high channel)

Parallel(worst case)

9kHz-150kHz

Common Information

Project No:	RKSB260326012
EUT Model:	44228007015
Test Mode:	Transmitting in BLE 500k mode high channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW: 200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature:	19.3°C
Humidity:	55%
Barometric Pressure:	101.3kPa
Test Engineer:	Scarf Yang
Check by:	Winnie Yang
Test Date:	2026/4/3

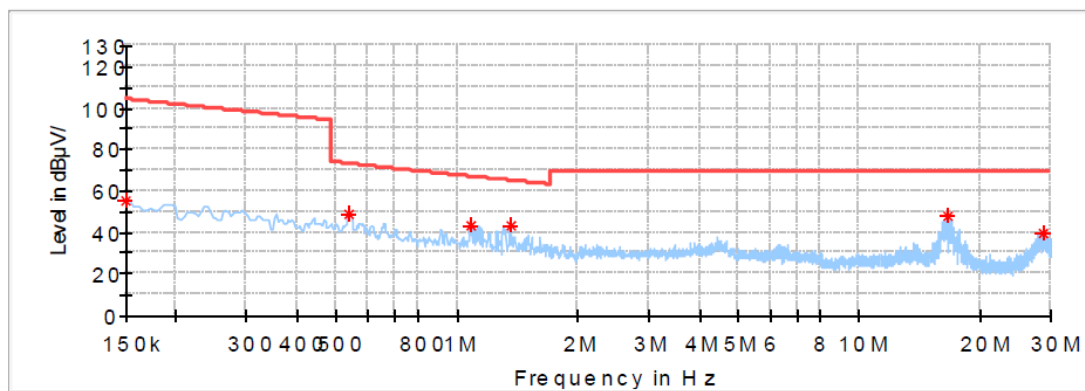


Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.020527	66.98	121.35	54.37	Parallel	-0.1
0.025391	65.23	119.50	54.28	Parallel	-0.1
0.071569	58.91	110.51	51.60	Parallel	-5.8
0.095486	54.05	108.01	53.96	Parallel	-8.1
0.121941	50.32	105.88	55.56	Parallel	-9.4
0.143232	53.54	104.48	50.94	Parallel	-10.3

150kHz-30MHz**Common Information**

Project No:	RKSB260326012
EUT Model:	44228007015
Test Mode:	Transmitting in BLE 500k mode high channel
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature:	19.3°C
Humidity:	55%
Barometric Pressure:	101.3kPa
Test Engineer:	Scarf Yang
Check by:	Winnie Yang
Test Date:	2026/4/3

**Critical_Freqs**

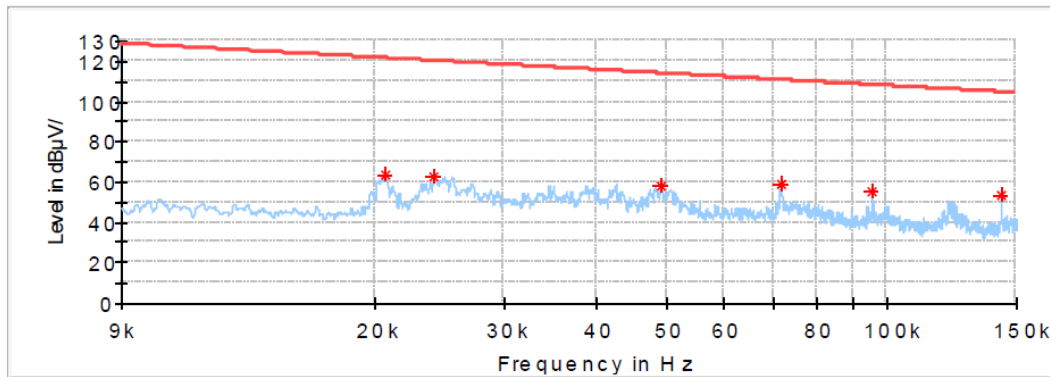
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.150000	55.70	104.08	48.38	Parallel	-10.6
0.538050	49.31	72.93	23.62	Parallel	-22.2
1.086544	43.14	66.69	23.55	Parallel	-27.4
1.358925	43.53	64.81	21.29	Parallel	-28.3
16.675706	47.93	69.54	21.61	Parallel	-32.6
28.742569	39.93	69.54	29.61	Parallel	-33.3

9 kHz-30MHz: (Transmitting in maximum output power mode BLE 1Mbps high channel)
Parallel(worst case)

9kHz-150kHz

Common Information

Project No: RKS260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 1M mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature: 19.3°C
Humidity: 55%
Barometric Pressure: 101.3 kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

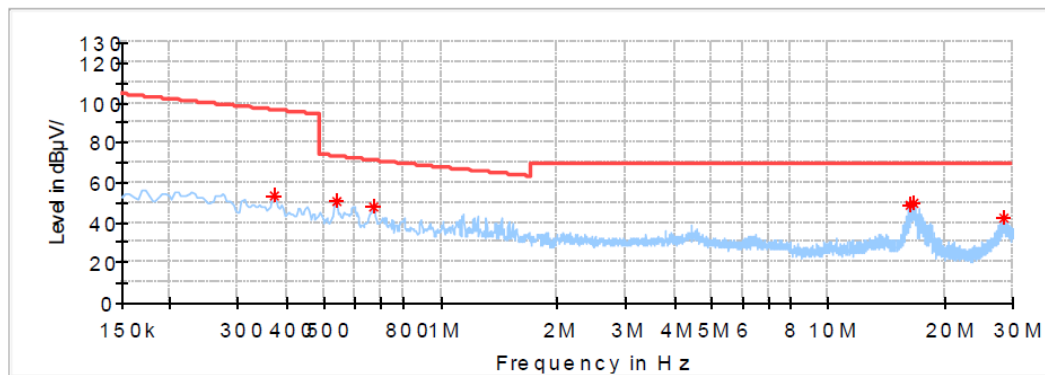


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
0.020703	63.75	121.28	57.53	Parallel	-0.1
0.024087	62.62	119.96	57.34	Parallel	-0.1
0.049150	58.50	113.77	55.27	Parallel	-3.1
0.071586	58.91	110.51	51.60	Parallel	-5.8
0.095433	55.06	108.01	52.95	Parallel	-8.1
0.143197	53.30	104.48	51.18	Parallel	-10.3

150kHz-30MHz**Common Information**

Project No: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 1M mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature: 19.3 °C
Humidity: 55%
Barometric Pressure: 101.3 kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

**Critical_Freqs**

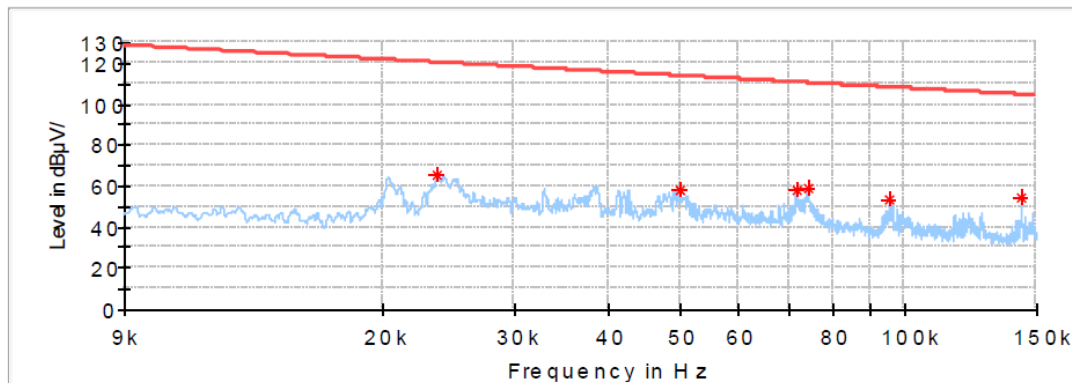
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.370144	53.56	96.14	42.58	Parallel	-18.7
0.538050	50.84	72.93	22.09	Parallel	-22.2
0.672375	47.79	70.89	23.09	Parallel	-23.9
16.224225	49.06	69.54	20.48	Parallel	-32.6
16.563769	49.40	69.54	20.14	Parallel	-32.6
28.444069	42.00	69.54	27.54	Parallel	-33.1

9 kHz-30MHz: (Transmitting in maximum output power mode BLE 2Mbps high channel)
Parallel(worst case)

9kHz-150kHz

Common Information

Project No: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 2M mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature: 19.3°C
Humidity: 55%
Barometric Pressure: 101.3kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

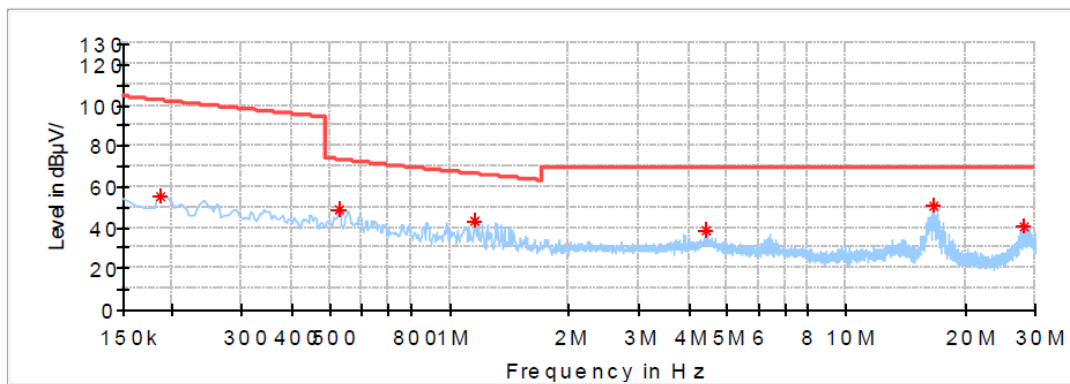


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
0.023664	65.35	120.11	54.76	Parallel	-0.1
0.049943	57.92	113.63	55.72	Parallel	-3.2
0.071569	58.47	110.51	52.04	Parallel	-5.8
0.074124	59.09	110.20	51.11	Parallel	-6.1
0.095362	53.61	108.02	54.41	Parallel	-8.1
0.143214	53.97	104.48	50.51	Parallel	-10.3

150kHz-30MHz**Common Information**

Project No: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 2M mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature: 19.3°C
Humidity: 55%
Barometric Pressure: 101.3 kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

**Critical_Freqs**

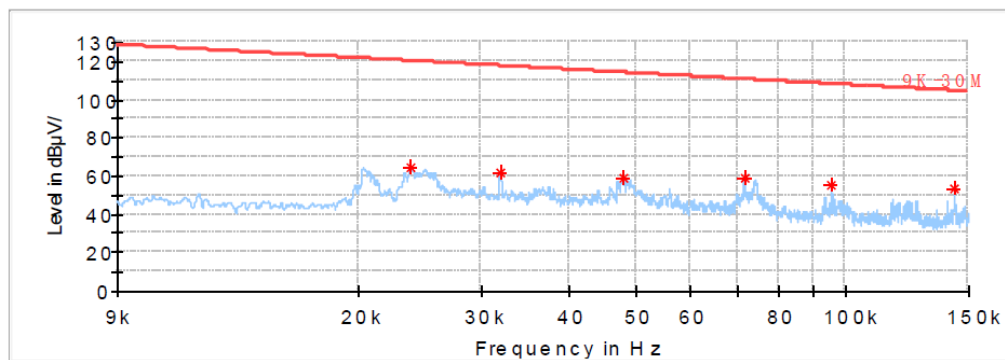
Frequency (MHz)	MaxPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
0.187312	55.54	102.07	46.53	Parallel	-12.2
0.526856	48.70	73.12	24.42	Parallel	-22.1
1.157438	43.45	66.15	22.70	Parallel	-27.6
4.429744	38.97	69.54	30.57	Parallel	-31.3
16.593619	50.76	69.54	18.78	Parallel	-32.6
28.153031	40.39	69.54	29.15	Parallel	-33.0

For ZigBee & Thread Mode:

9 kHz-30MHz: (Transmitting in maximum output power mode ZigBee & Thread high channel)
Parallel(worst case)

9kHz-150kHz**Common Information**

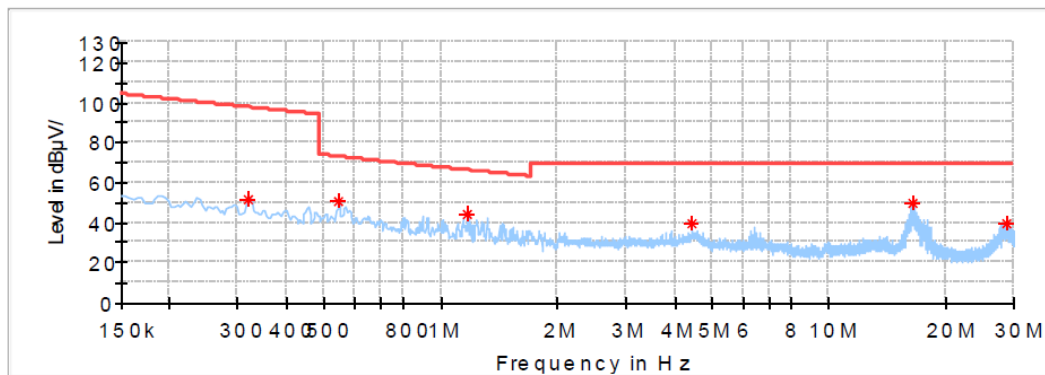
Project No: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in ZigBee & Thread mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW:200 Hz, VBW:1 kHz, Sweep Time: Auto
Temperature: 19.3°C
Humidity: 55%
Barometric Pressure: 101.3kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
0.023699	64.38	120.10	55.72	Parallel	-0.1
0.031930	61.88	117.52	55.64	Parallel	-0.3
0.048039	59.24	113.97	54.73	Parallel	-2.9
0.071569	58.62	110.51	51.90	Parallel	-5.8
0.095380	54.91	108.02	53.10	Parallel	-8.1
0.143091	53.60	104.49	50.89	Parallel	-10.3

150kHz-30MHz**Common Information**

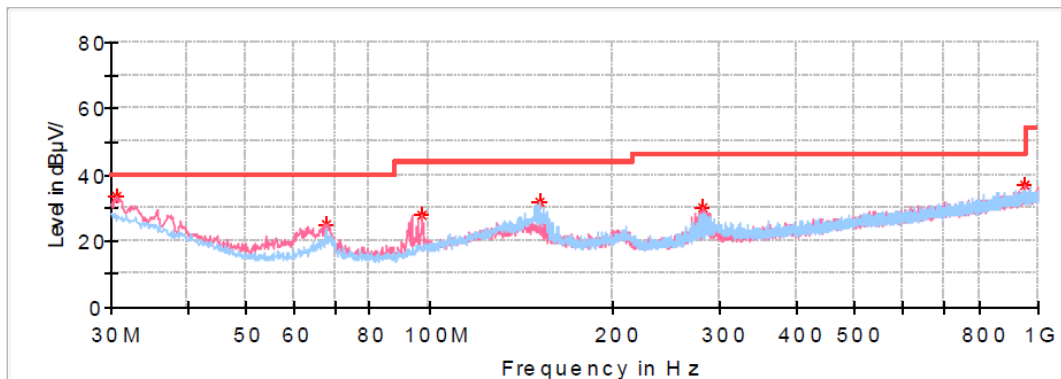
Project No: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in ZigBee & Thread mode high channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, 1313-1A, 310N
Receiver Setting: RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature: 19.3°C
Humidity: 55%
Barometric Pressure: 101.3 kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.317906	52.06	97.43	45.38	Parallel	-17.5
0.545512	50.38	72.80	22.42	Parallel	-22.3
1.172362	44.18	66.04	21.86	Parallel	-27.7
4.437206	39.67	69.54	29.87	Parallel	-31.3
16.470488	49.69	69.54	19.85	Parallel	-32.6
28.638094	39.66	69.54	29.88	Parallel	-33.3

BLE (125 kbps): (Transmitting in maximum output power mode BLE (125 kbps) high channel)**30MHz-1GHz****High Channel: 2480MHz****Common Information**

Project No: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 125k mode high 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: 19.3°C
Humidity: 55%
Barometric Pressure: 101.3kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

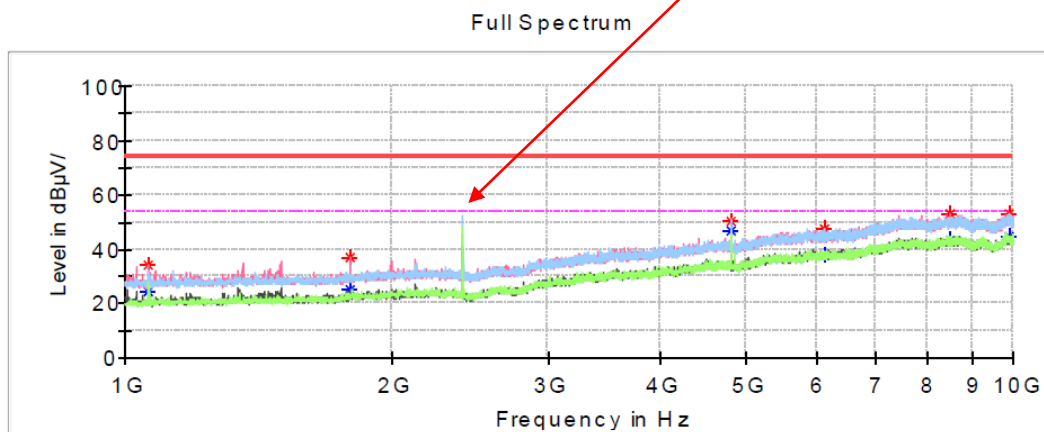
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.606250	33.44	40.00	6.56	V	-5.1
67.587500	25.23	40.00	14.77	V	-16.7
97.172500	28.03	43.50	15.47	V	-15.1
151.856250	31.68	43.50	11.82	H	-11.8
282.200000	29.84	46.00	16.16	V	-10.4
950.045000	36.83	46.00	9.17	V	1.8

1GHz-10GHz (BLE 125 kbps):**Low Channel: 2402 MHz****Common Information**

Project No.: RKS260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 125k 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: 22.1 °C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/8

Fundamental test with
Band Reject Filter

**Critical Freqs**

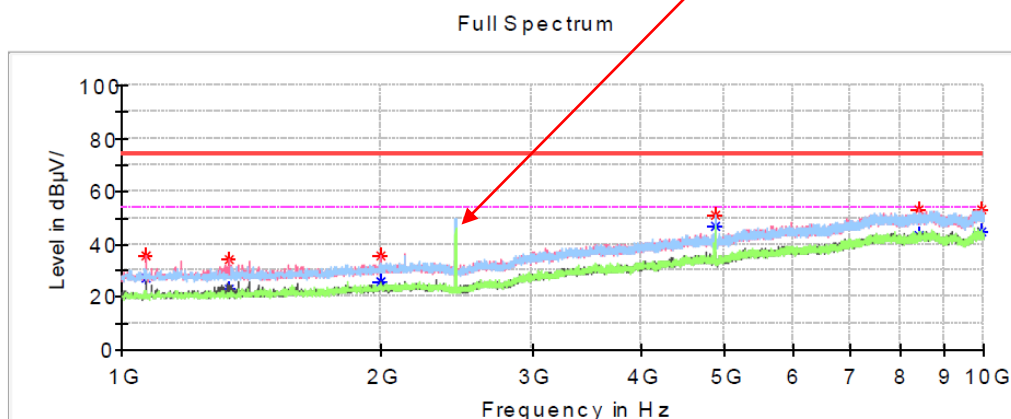
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1062.100000	---	24.14	54.00	29.86	V	-14.8
1062.100000	34.40	---	74.00	39.60	V	-14.8
1791.100000	---	25.05	54.00	28.95	V	-11.7
1791.100000	37.35	---	74.00	36.65	V	-11.7
4804.000000	50.55	---	74.00	23.45	H	-2.4
4804.000000	---	46.66	54.00	7.34	H	-2.4
6142.600000	---	37.55	54.00	16.45	H	0.5
6142.600000	47.90	---	74.00	26.10	H	0.5
8498.800000	53.24	---	74.00	20.76	V	5.7
8498.800000	---	43.37	54.00	10.63	V	5.7
9917.200000	52.98	---	74.00	21.02	V	7.2
9917.200000	---	44.88	54.00	9.12	V	7.2

Middle Channel: 2440 MHz

Common Information

Project No.: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 125k 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: 22.1°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/8

Fundamental test with
Band Reject Filter



Critical_Freqs

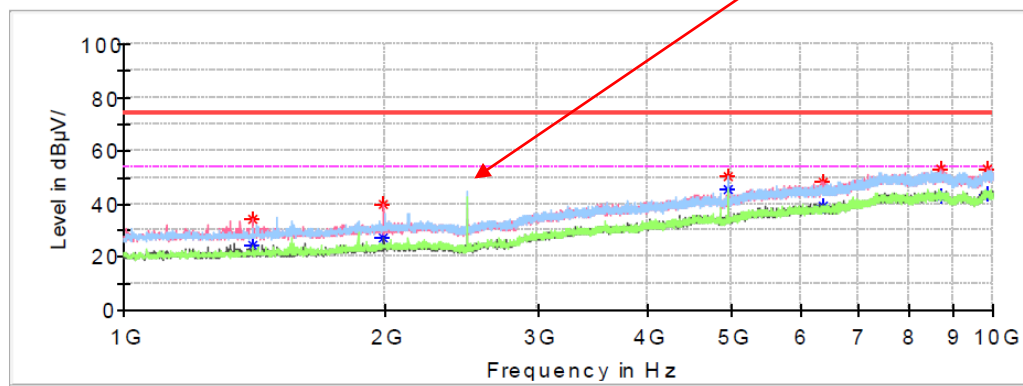
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1065.700000	---	27.38	54.00	26.62	V	-14.8
1065.700000	35.40	---	74.00	38.60	V	-14.8
1332.100000	---	23.41	54.00	30.59	V	-13.8
1332.100000	34.00	---	74.00	40.00	V	-13.8
1995.400000	35.36	---	74.00	38.64	V	-10.7
1995.400000	---	25.81	54.00	28.19	V	-10.7
4880.000000	---	46.59	54.00	7.41	H	-2.1
4880.000000	51.17	---	74.00	22.83	H	-2.1
8402.500000	53.01	---	74.00	20.99	V	5.4
8402.500000	---	43.27	54.00	10.73	V	5.4
9953.200000	---	44.83	54.00	9.17	H	7.3
9953.200000	53.24	---	74.00	20.76	H	7.3

High Channel: 2480 MHz**Common Information**

Project No.: RKSB260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 125k 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: 22.1℃
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/8

Fundamental test with
Band Reject Filter

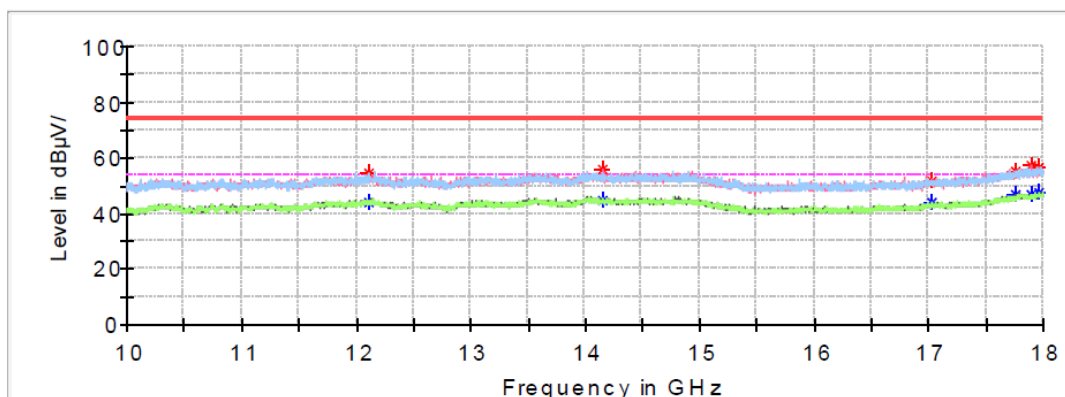
Full Spectrum

**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)
1404.100000	34.41	---	74.00	39.59	V	-13.5
1404.100000	---	24.20	54.00	29.80	V	-13.5
1991.800000	39.88	---	74.00	34.12	V	-10.7
1991.800000	---	27.11	54.00	26.89	V	-10.7
4960.000000	---	45.40	54.00	8.60	H	-1.9
4960.000000	50.12	---	74.00	23.88	H	-1.9
6372.100000	---	39.20	54.00	14.80	V	0.3
6372.100000	48.12	---	74.00	25.88	V	0.3
8708.500000	52.93	---	74.00	21.07	H	5.7
8708.500000	---	42.75	54.00	11.25	H	5.7
9875.800000	53.30	---	74.00	20.70	V	7.0
9875.800000	---	43.57	54.00	10.43	V	7.0

10GHz-18GHz (BLE 125 kbps):**Low Channel: 2402 MHz****Common Information**

Project No.:	RKSB260326012
EUT Model:	44228007015
Test Mode:	Transmitting in BLE 125k 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:	22.1°C
Humidity:	51%
Atmospheric Pressure:	102.4kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/5/8

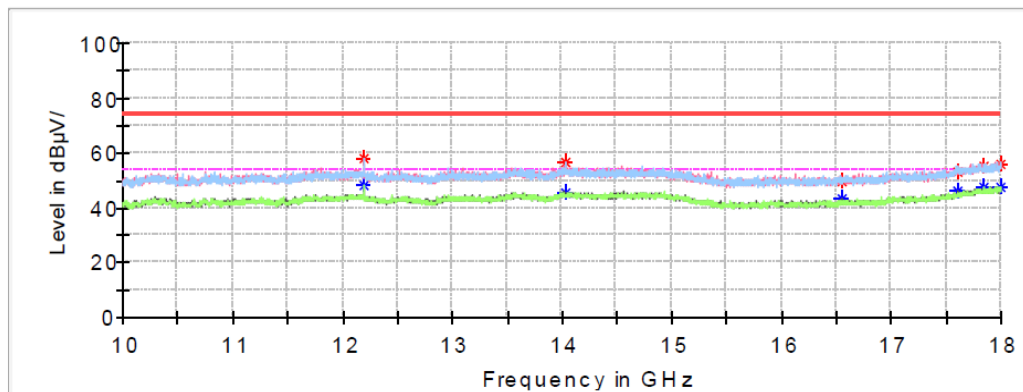
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12102.400000	---	44.10	54.00	9.90	V	9.0
12102.400000	54.69	---	74.00	19.31	V	9.0
14161.600000	55.66	---	74.00	18.34	V	10.8
14161.600000	---	44.66	54.00	9.34	V	10.8
17033.600000	---	43.97	54.00	10.03	V	9.6
17033.600000	51.76	---	74.00	22.24	V	9.6
17756.800000	55.02	---	74.00	18.98	V	12.3
17756.800000	---	47.06	54.00	6.94	V	12.3
17900.800000	57.20	---	74.00	16.80	H	13.2
17900.800000	---	46.75	54.00	7.25	H	13.2
17969.600000	56.57	---	74.00	17.43	V	13.6
17969.600000	---	47.73	54.00	6.27	V	13.6

Middle Channel: 2440 MHz**Common Information**

Project No.: RKSB260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 125k 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: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/8

Full Spectrum

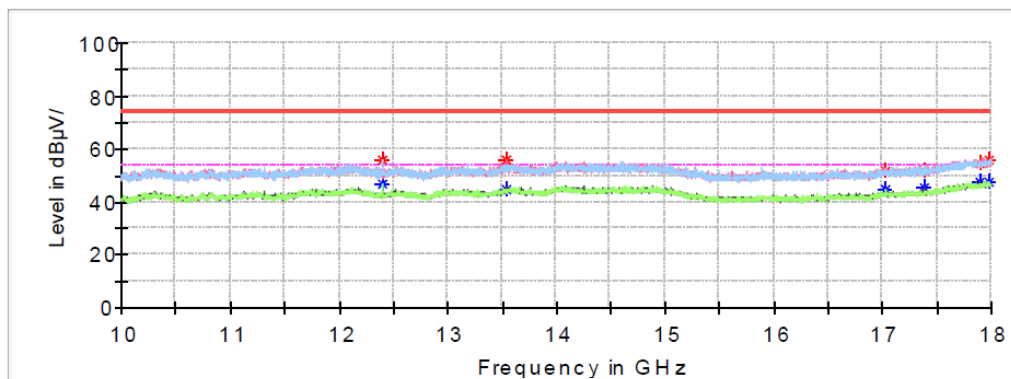
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12200.000000	---	48.13	54.00	5.87	H	8.9
12200.000000	57.96	---	74.00	16.04	H	8.9
14033.600000	56.50	---	74.00	17.50	H	10.7
14033.600000	---	45.39	54.00	8.61	H	10.7
16545.600000	---	43.27	54.00	10.73	V	7.7
16545.600000	49.65	---	74.00	24.35	V	7.7
17604.800000	---	46.25	54.00	7.75	V	11.4
17604.800000	52.97	---	74.00	21.03	V	11.4
17840.000000	55.01	---	74.00	18.99	H	12.9
17840.000000	---	47.22	54.00	6.78	H	12.9
17998.400000	56.05	---	74.00	17.95	H	13.8
17998.400000	---	47.89	54.00	6.11	H	13.8

High Channel: 2480 MHz**Common Information**

Project No.: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 125k 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: 22.1℃
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/8

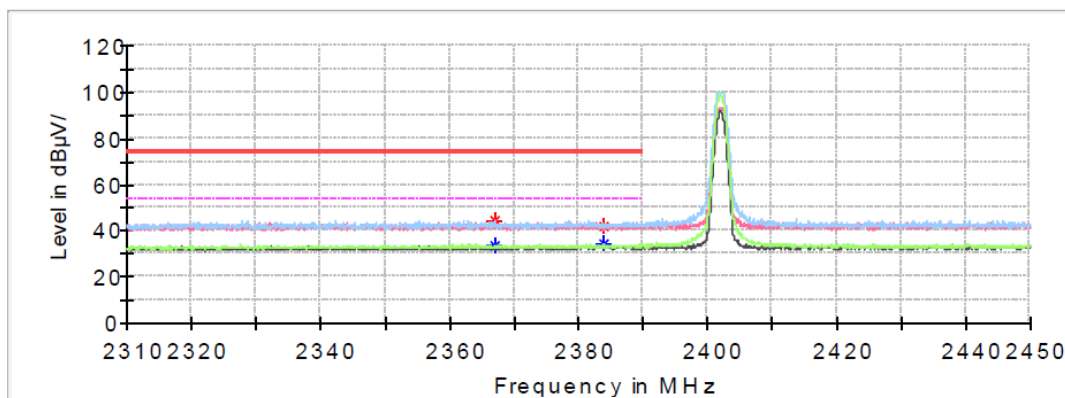
Full Spectrum

**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)
12400.000000	56.26	---	74.00	17.74	H	8.8
12400.000000	---	46.66	54.00	7.34	H	8.8
13547.200000	---	44.80	54.00	9.20	V	9.7
13547.200000	55.90	---	74.00	18.10	V	9.7
17028.800000	51.58	---	74.00	22.42	H	9.6
17028.800000	---	44.93	54.00	9.07	H	9.6
17384.000000	52.02	---	74.00	21.98	V	10.5
17384.000000	---	45.41	54.00	8.59	V	10.5
17889.600000	54.33	---	74.00	19.67	V	13.2
17889.600000	---	47.53	54.00	6.47	V	13.2
17977.600000	---	47.46	54.00	6.54	H	13.7
17977.600000	55.81	---	74.00	18.19	H	13.7

Restricted Bands Emission:**Left Side****Common Information**

Project No.: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 125k 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: 22.1°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/8

Full Spectrum**Critical_Freqs**

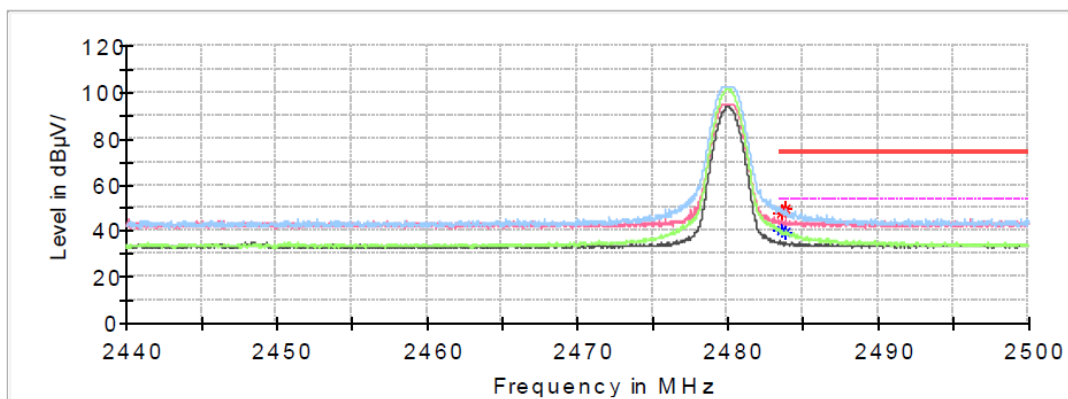
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2366.952000	44.72	---	74.00	29.28	H	-0.6
2366.952000	---	33.54	54.00	20.46	H	-0.6
2383.808000	41.56	---	74.00	32.44	H	-0.6
2383.808000	---	34.46	54.00	19.54	H	-0.6

Right Side

Common Information

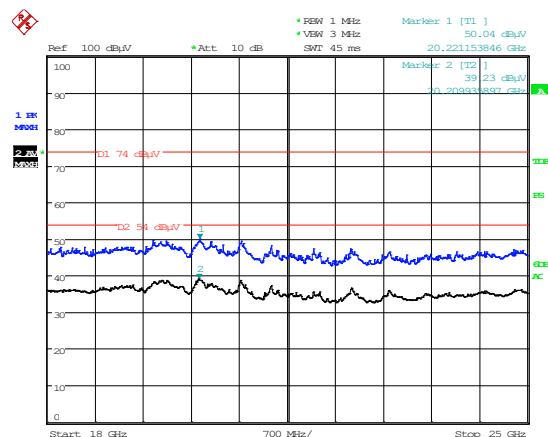
Project No.: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 125k High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1℃
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/8

Full Spectrum



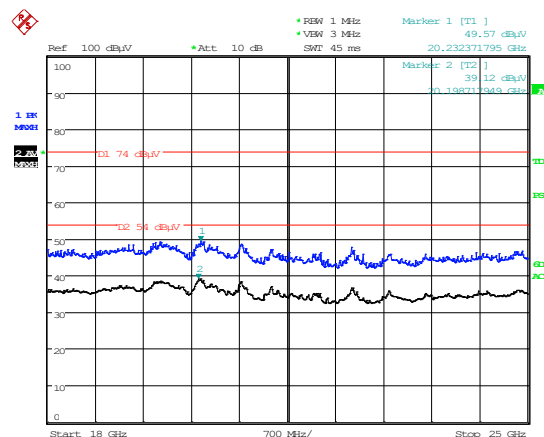
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.584000	---	40.35	54.00	13.65	H	-0.3
2483.584000	48.25	---	74.00	25.75	H	-0.3
2483.800000	---	39.53	54.00	14.47	H	-0.3
2483.800000	49.47	---	74.00	24.53	H	-0.3

18 GHz - 25 GHz (Transmitting in maximum output power mode BLE (125 kbps) high channel):**Horizontal**

Project No :RKS260326012
Date: 9.MAY.2026 11:50:09

Tester :Rugh Wu

Vertical

Project No :RKS260326012
Date: 9.MAY.2026 12:21:49

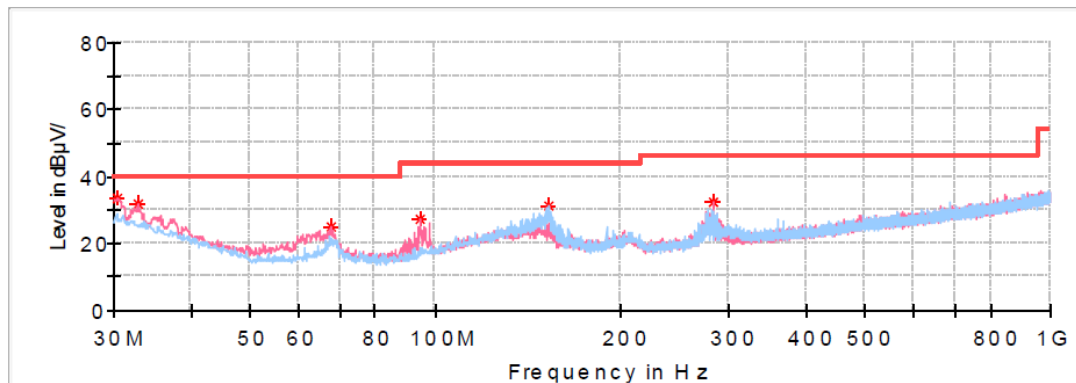
Tester :Rugh Wu

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.20	---	39.12	54	14.88	V	12.46
20.23	49.57	---	74	24.43	V	12.49
20.21	---	39.23	54	14.77	H	12.47
20.22	50.04	---	74	23.96	H	12.48

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

BLE (500 kbps): (Transmitting in maximum output power mode BLE (500 kbps) high channel)**30MHz-1GHz****High Channel: 2480MHz****Common Information**

Project No: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 500k mode high 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: 19.3°C
Humidity: 55%
Barometric Pressure: 101.3kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/4/3

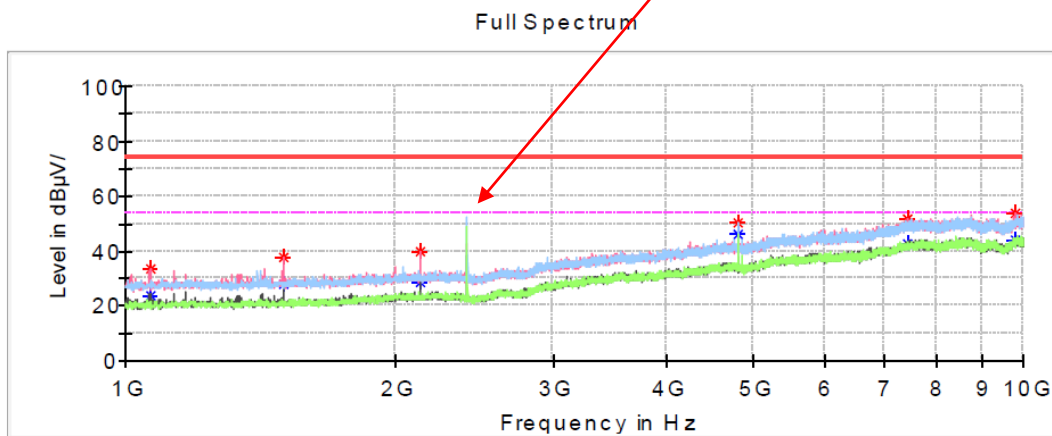
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.485000	33.25	40.00	6.75	V	-5.0
32.788750	31.54	40.00	8.46	V	-6.6
67.587500	24.83	40.00	15.17	V	-16.7
94.626250	27.07	43.50	16.43	V	-15.7
153.068750	31.24	43.50	12.26	H	-11.8
283.776250	32.42	46.00	13.58	V	-10.4

1GHz-10GHz (BLE 500 kbps):**Low Channel: 2402 MHz****Common Information**

Project No.:	RKS260326012
EUT Model:	44228007015
Test Mode:	Transmitting in BLE 500k 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:	22.1℃
Humidity:	51%
Atmospheric Pressure:	102.4kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/5/8

Fundamental test with
Band Reject Filter

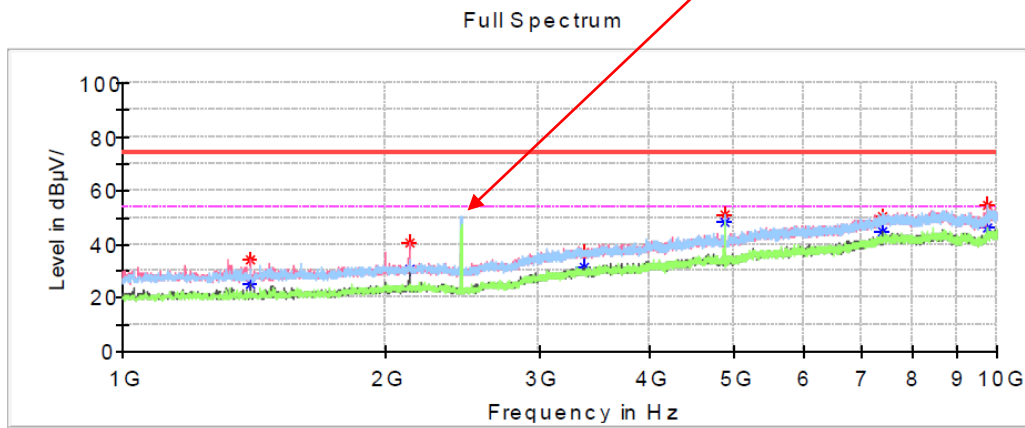
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1063.900000	---	23.45	54.00	30.55	V	-14.8
1063.900000	33.65	---	74.00	40.35	V	-14.8
1497.700000	37.51	---	74.00	36.49	V	-13.1
1497.700000	---	27.93	54.00	26.07	V	-13.1
2131.300000	40.14	---	74.00	33.86	V	-10.3
2131.300000	---	28.95	54.00	25.05	V	-10.3
4804.000000	---	46.01	54.00	7.99	H	-2.4
4804.000000	50.01	---	74.00	23.99	H	-2.4
7439.500000	---	42.60	54.00	11.40	V	4.2
7439.500000	51.64	---	74.00	22.36	V	4.2
9810.100000	---	44.15	54.00	9.85	H	6.8
9810.100000	53.62	---	74.00	20.38	H	6.8

Middle Channel: 2440 MHz**Common Information**

Project No.:	RKS260326012
EUT Model:	44228007015
Test Mode:	Transmitting in BLE 500k 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:	22.1°C
Humidity:	51%
Atmospheric Pressure:	102.4kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/5/8

Fundamental test with
Band Reject Filter

**Critical_Freqs**

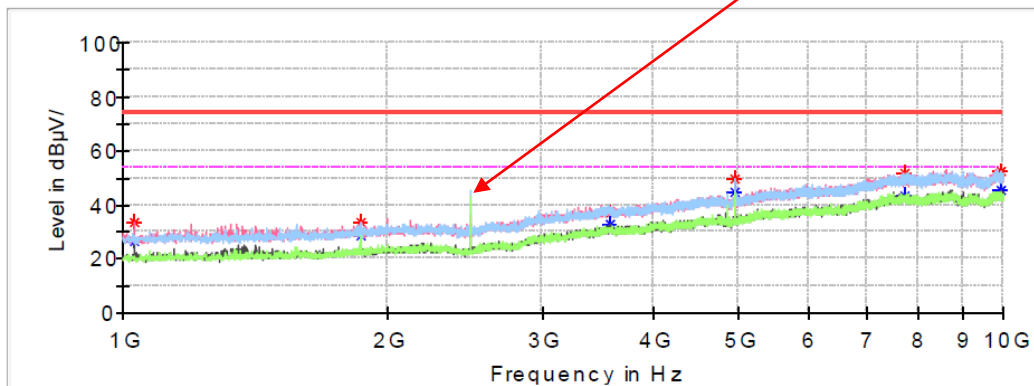
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1400.500000	---	25.39	54.00	28.61	V	-13.5
1400.500000	34.44	---	74.00	39.56	V	-13.5
2127.700000	---	30.43	54.00	23.57	V	-10.3
2127.700000	40.65	---	74.00	33.35	V	-10.3
3375.100000	37.31	---	74.00	36.69	V	-5.8
3375.100000	---	31.64	54.00	22.36	V	-5.8
4880.000000	---	48.17	54.00	5.83	H	-2.1
4880.000000	51.35	---	74.00	22.65	H	-2.1
7406.200000	50.04	---	74.00	23.96	V	4.1
7406.200000	---	44.70	54.00	9.30	V	4.1
9759.700000	---	46.27	54.00	7.73	H	6.7
9759.700000	54.70	---	74.00	19.30	H	6.7

High Channel: 2480 MHz**Common Information**

Project No.: RKSB260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 500k 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: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/8

Fundamental test with
Band Reject Filter

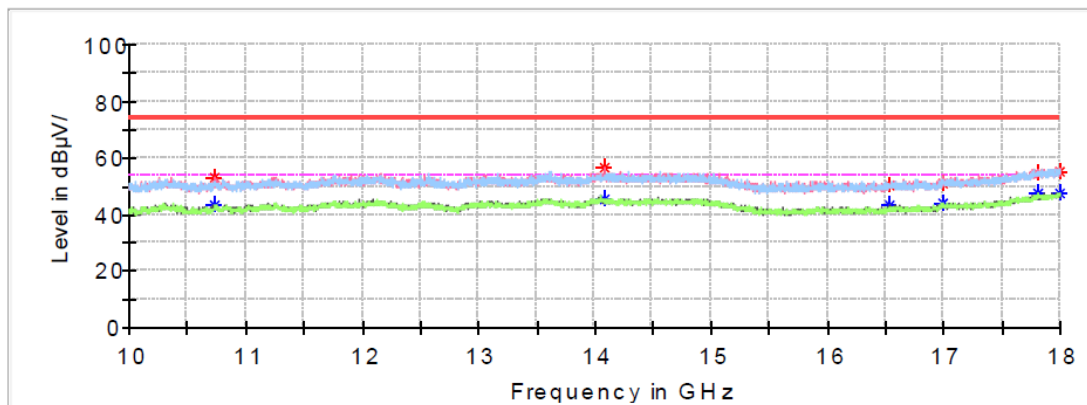
Full Spectrum

**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)
1029.700000	33.77	---	74.00	40.23	V	-15.0
1029.700000	---	26.87	54.00	27.13	V	-15.0
1859.500000	33.74	---	74.00	40.26	H	-11.3
1859.500000	---	28.71	54.00	25.29	H	-11.3
3571.300000	36.91	---	74.00	37.09	V	-5.1
3571.300000	---	32.99	54.00	21.01	V	-5.1
4960.000000	49.86	---	74.00	24.14	H	-1.9
4960.000000	---	44.83	54.00	9.17	H	-1.9
7720.300000	51.44	---	74.00	22.56	H	4.4
7720.300000	---	43.54	54.00	10.46	H	4.4
9933.400000	---	45.60	54.00	8.40	V	7.2
9933.400000	52.17	---	74.00	21.83	V	7.2

10GHz-18GHz (BLE 500 kbps):**Low Channel: 2402 MHz****Common Information**

Project No.:	RKSB260326012
EUT Model:	44228007015
Test Mode:	Transmitting in BLE 500k 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:	22.1°C
Humidity:	51%
Atmospheric Pressure:	102.4kPa
Test Engineer:	Destine Hu
Check by:	Winnie Yang
Test Date:	2026/5/8

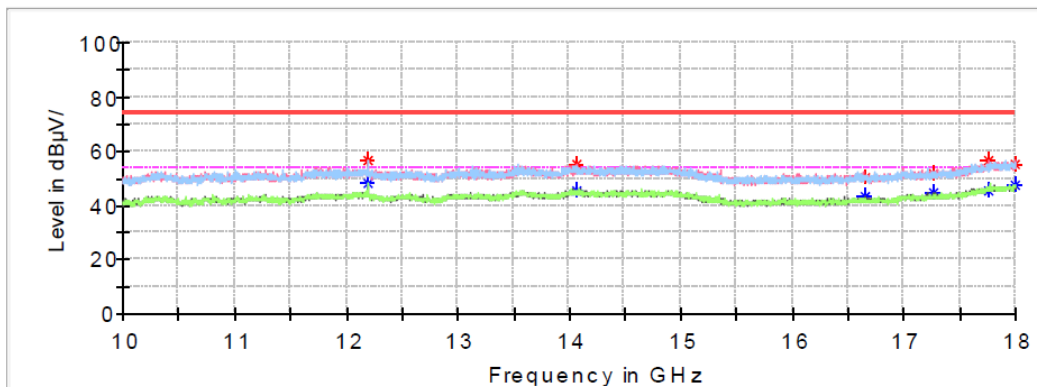
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10731.200000	---	43.54	54.00	10.46	V	6.7
10731.200000	53.29	---	74.00	20.71	V	6.7
14080.000000	---	45.77	54.00	8.23	V	10.7
14080.000000	56.41	---	74.00	17.59	V	10.7
16529.600000	50.46	---	74.00	23.54	V	7.7
16529.600000	---	43.53	54.00	10.47	V	7.7
16996.800000	51.37	---	74.00	22.63	V	9.5
16996.800000	---	44.35	54.00	9.65	V	9.5
17819.200000	54.75	---	74.00	19.25	V	12.7
17819.200000	---	47.65	54.00	6.35	V	12.7
17992.000000	55.49	---	74.00	18.51	H	13.8
17992.000000	---	47.84	54.00	6.16	H	13.8

Middle Channel: 2440 MHz**Common Information**

Project No.: RKSB260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 500k 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: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Winnie Yang
 Test Date: 2026/5/8

Full Spectrum

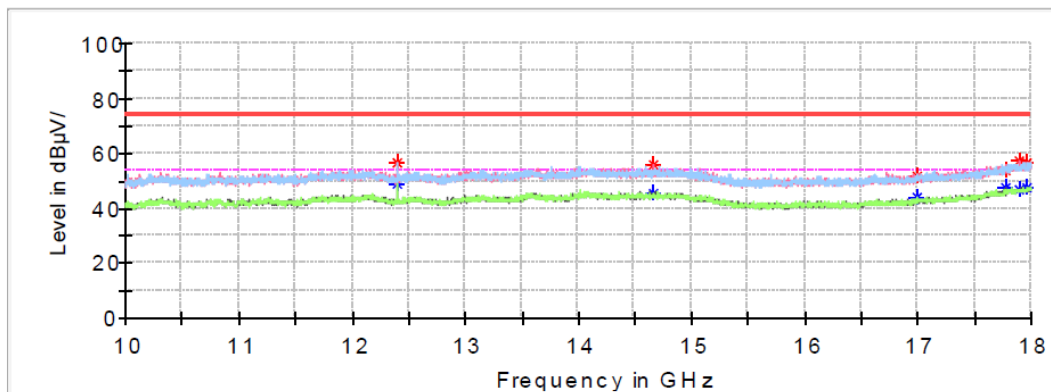
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12200.000000	56.68	---	74.00	17.32	H	8.9
12200.000000	---	48.07	54.00	5.93	H	8.9
14060.800000	---	45.51	54.00	8.49	V	10.7
14060.800000	55.31	---	74.00	18.69	V	10.7
16659.200000	50.02	---	74.00	23.98	H	8.2
16659.200000	---	43.14	54.00	10.86	H	8.2
17260.800000	51.48	---	74.00	22.52	V	10.2
17260.800000	---	44.61	54.00	9.39	V	10.2
17760.000000	56.74	---	74.00	17.26	V	12.4
17760.000000	---	45.73	54.00	8.27	V	12.4
17992.000000	55.59	---	74.00	18.41	H	13.8
17992.000000	---	47.88	54.00	6.12	H	13.8

High Channel: 2480 MHz**Common Information**

Project No.: RKS260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 500k 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: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Winnie Yang
 Test Date: 2026/5/8

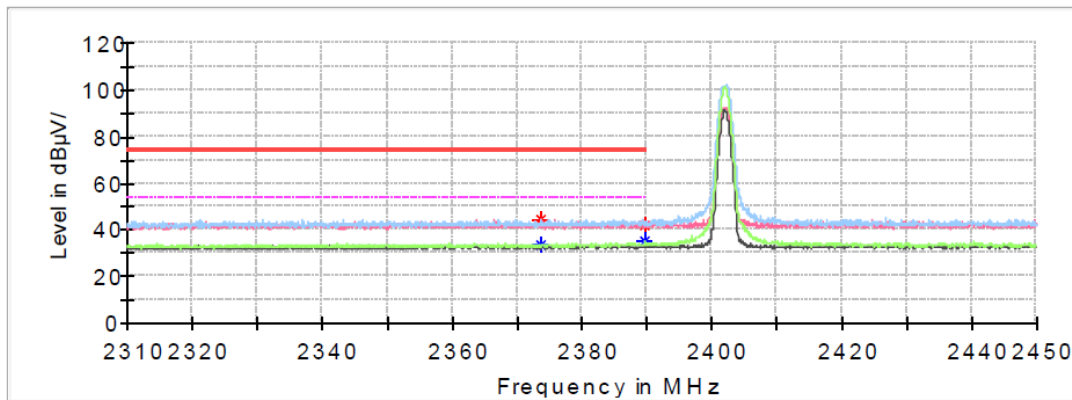
Full Spectrum

**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)
12400.000000	56.78	---	74.00	17.22	H	8.8
12400.000000	---	48.66	54.00	5.34	H	8.8
14670.400000	---	45.30	54.00	8.70	V	10.5
14670.400000	55.96	---	74.00	18.04	V	10.5
17001.600000	51.95	---	74.00	22.05	H	9.5
17001.600000	---	44.38	54.00	9.62	H	9.5
17782.400000	54.01	---	74.00	19.99	V	12.5
17782.400000	---	47.40	54.00	6.60	V	12.5
17905.600000	---	46.76	54.00	7.24	V	13.3
17905.600000	57.20	---	74.00	16.80	V	13.3
17974.400000	---	47.89	54.00	6.11	H	13.7
17974.400000	56.33	---	74.00	17.67	H	13.7

Restricted Bands Emission:**Left Side****Common Information**

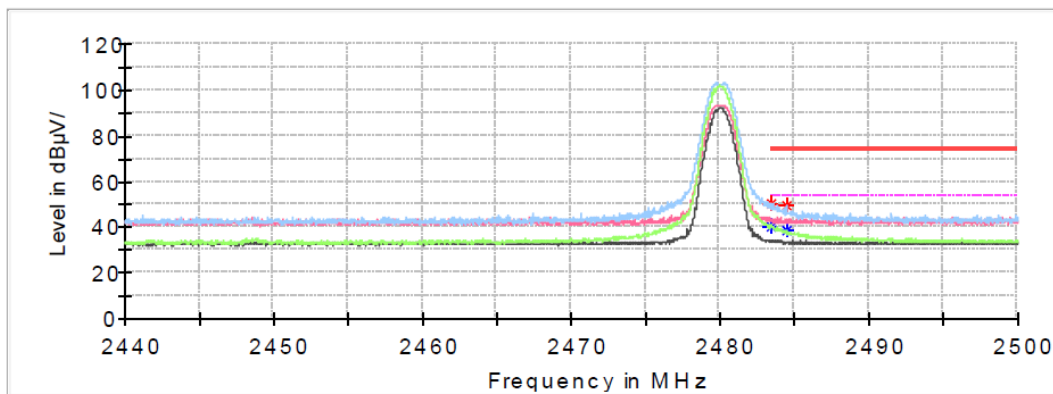
Project No.: RKSB260326012
EUT Model: 44228007015
Test Mode: Transmitting in BLE 500k Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 22.1°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/8

Full Spectrum**Critical_Freqs**

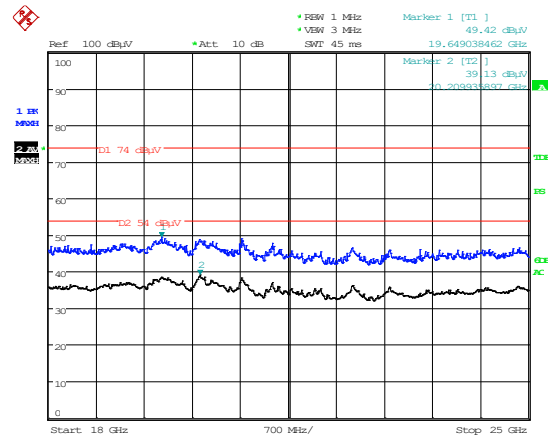
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2373.672000	44.88	---	74.00	29.12	H	-0.6
2373.672000	---	33.18	54.00	20.82	H	-0.6
2389.576000	42.28	---	74.00	31.72	H	-0.6
2389.576000	---	34.88	54.00	19.12	H	-0.6

Right Side**Common Information**

Project No.: RKS260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 500k 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: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/8

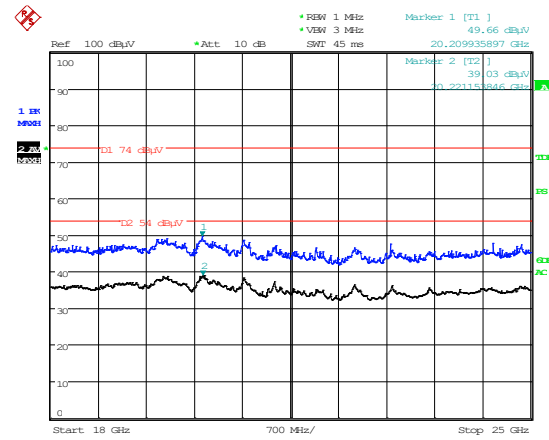
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.512000	---	40.19	54.00	13.81	H	-0.3
2483.512000	50.29	---	74.00	23.71	H	-0.3
2484.448000	---	38.23	54.00	15.77	H	-0.3
2484.448000	49.23	---	74.00	24.77	H	-0.3

18 GHz - 25 GHz (Transmitting in maximum output power mode BLE (500 kbps) high channel):**Horizontal**

Project No :RKS260326012
Date: 9.MAY.2026 12:53:17

Tester :Rugh Wu

Vertical

Project No :RKS260326012
Date: 9.MAY.2026 13:25:57

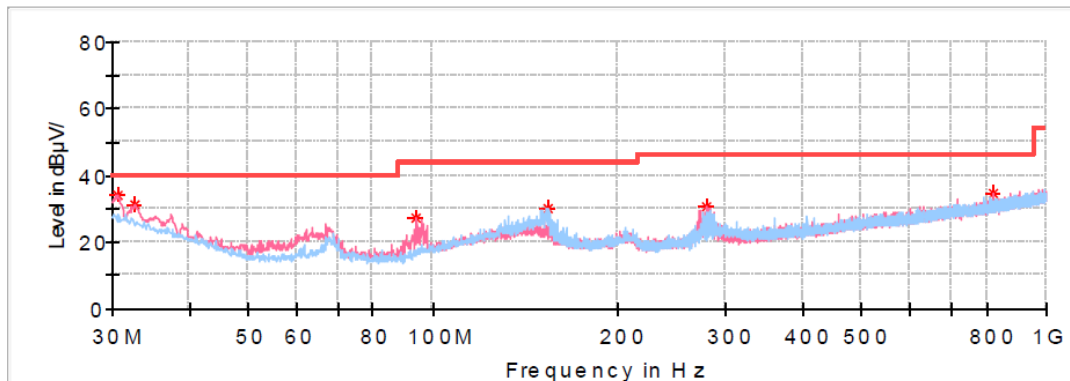
Tester :Rugh Wu

Frequency (GHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.22	---	39.03	54	14.97	V	12.48
20.21	49.66	---	74	24.34	V	12.47
20.21	---	39.13	54	14.87	H	12.47
19.65	49.42	---	74	24.58	H	11.27

Note: The test distance is 3m. The limit is 74dBμV/m(Peak) and 54dBμV/m(Average).

BLE 1Mbps: (Transmitting in maximum output power mode BLE 1Mbps high channel)**30MHz-1GHz:****High Channel: 2480MHz****Common Information**

Project No: RKSB260326012
 EUT Model: 44228007015
 Test Mode: Transmitting in BLE 1M mode high 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: 19.3°C
 Humidity: 55%
 Barometric Pressure: 101.3kPa
 Test Engineer: Scarf Yang
 Check by: Winnie Yang
 Test Date: 2026/4/3

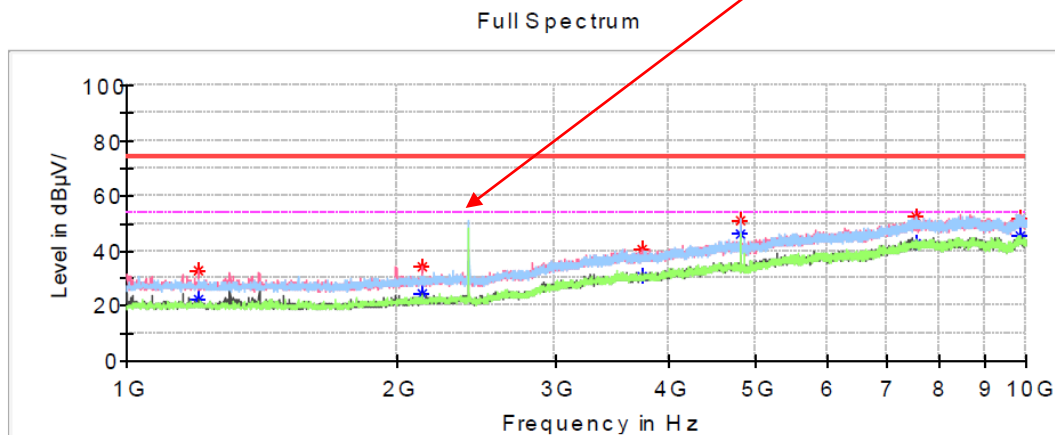
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.606250	33.78	40.00	6.22	V	-5.1
32.667500	31.02	40.00	8.98	V	-6.5
94.141250	27.06	43.50	16.44	V	-15.8
154.645000	29.96	43.50	13.54	H	-11.9
278.562500	30.44	46.00	15.56	V	-10.5
819.701250	34.43	46.00	11.57	V	-0.4

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

Project No.: RKSB260326012
 EUT Model: 44228007015
 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: 22.1°C
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/5/8

Fundamental test with
Band Reject Filter

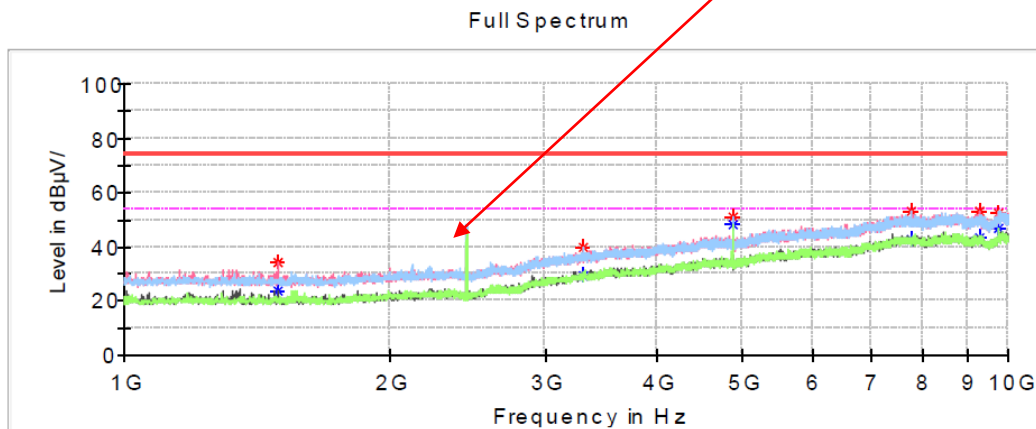
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1200.700000	---	22.29	54.00	31.71	V	-14.3
1200.700000	33.10	---	74.00	40.90	V	-14.3
2127.700000	---	24.29	54.00	29.71	V	-10.3
2127.700000	34.23	---	74.00	39.77	V	-10.3
3749.500000	40.54	---	74.00	33.46	H	-4.6
3749.500000	---	30.75	54.00	23.25	H	-4.6
4804.000000	51.01	---	74.00	22.99	H	-2.4
4804.000000	---	46.27	54.00	7.73	H	-2.4
7563.700000	---	42.45	54.00	11.55	V	4.4
7563.700000	52.30	---	74.00	21.70	V	4.4
9859.600000	51.70	---	74.00	22.30	V	7.0
9859.600000	---	45.17	54.00	8.83	V	7.0

Middle Channel: 2440 MHz**Common Information**

Project No.:	RKS260326012
EUT Model:	44228007015
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:	22.1°C
Humidity:	51%
Atmospheric Pressure:	102.4kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/5/8

Fundamental test with
Band Reject Filter

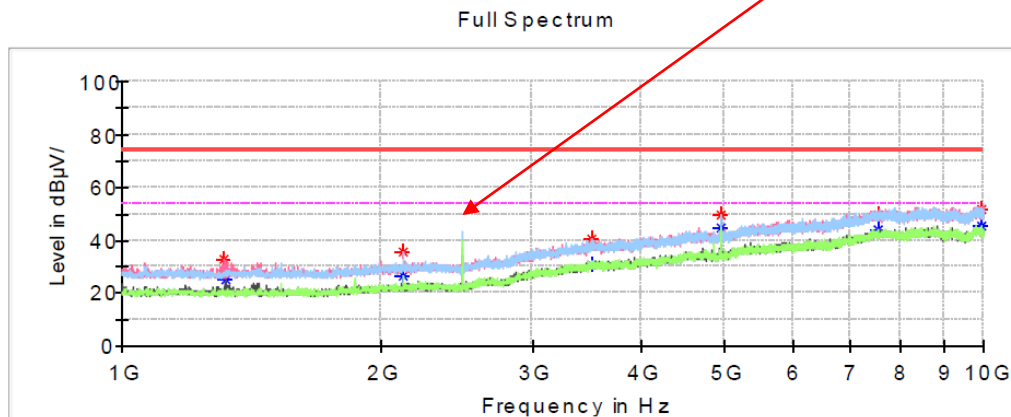
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1493.200000	---	23.97	54.00	30.03	V	-13.2
1493.200000	34.54	---	74.00	39.46	V	-13.2
3306.700000	---	29.58	54.00	24.42	H	-6.1
3306.700000	39.58	---	74.00	34.42	H	-6.1
4880.000000	51.39	---	74.00	22.61	H	-2.1
4880.000000	---	48.59	54.00	5.41	H	-2.1
7757.200000	52.92	---	74.00	21.08	H	4.4
7757.200000	---	42.64	54.00	11.36	H	4.4
9301.600000	---	43.44	54.00	10.56	V	5.8
9301.600000	53.31	---	74.00	20.69	V	5.8
9759.700000	---	46.80	54.00	7.20	H	6.7
9759.700000	52.80	---	74.00	21.20	H	6.7

High Channel: 2480 MHz**Common Information**

Project No.: RKSB260326012
EUT Model: 44228007015
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: 22.1°C
Humidity: 51%
Atmospheric Pressure: 102.4kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/5/8

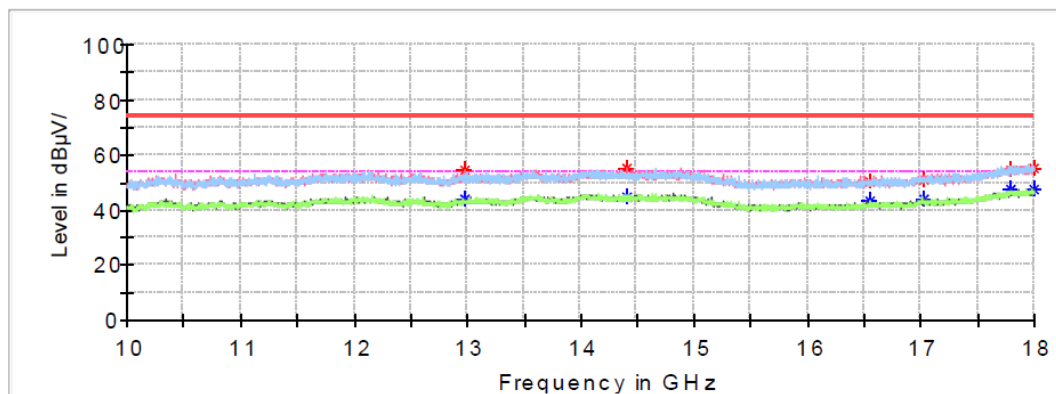
Fundamental test with
Band Reject Filter

**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)
1315.900000	33.00	---	74.00	41.00	V	-13.9
1315.900000	---	25.03	54.00	28.97	V	-13.9
2123.200000	35.57	---	74.00	38.43	H	-10.3
2123.200000	---	26.50	54.00	27.50	H	-10.3
3514.600000	---	30.98	54.00	23.02	V	-5.2
3514.600000	40.83	---	74.00	33.17	V	-5.2
4960.000000	---	44.59	54.00	9.41	H	-1.9
4960.000000	49.94	---	74.00	24.06	H	-1.9
7533.100000	49.56	---	74.00	24.44	H	4.4
7533.100000	---	44.11	54.00	9.89	H	4.4
9928.000000	---	45.63	54.00	8.37	H	7.2
9928.000000	51.71	---	74.00	22.29	H	7.2

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

Project No.: RKS260326012
 EUT Model: 44228007015
 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: 22.1℃
 Humidity: 51%
 Atmospheric Pressure: 102.4kPa
 Test Engineer: Destine Hu
 Check by: Winnie Yang
 Test Date: 2026/5/8

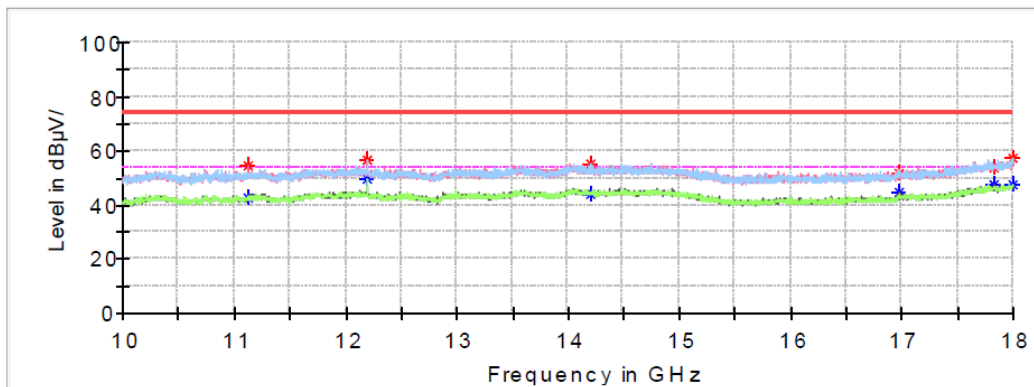
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12971.200000	54.36	---	74.00	19.64	V	8.7
12971.200000	---	44.21	54.00	9.79	V	8.7
14414.400000	55.41	---	74.00	18.59	V	11.0
14414.400000	---	44.85	54.00	9.15	V	11.0
16556.800000	50.55	---	74.00	23.45	H	7.8
16556.800000	---	43.45	54.00	10.55	H	7.8
17022.400000	51.10	---	74.00	22.90	V	9.6
17022.400000	---	44.15	54.00	9.85	V	9.6
17796.800000	---	47.37	54.00	6.63	V	12.6
17796.800000	54.40	---	74.00	19.60	V	12.6
17998.400000	---	47.75	54.00	6.25	H	13.8
17998.400000	55.53	---	74.00	18.47	H	13.8

Middle Channel: 2440 MHz**Common Information**

Project No.:	RKSB260326012
EUT Model:	44228007015
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:	22.1°C
Humidity:	51%
Atmospheric Pressure:	102.4kPa
Test Engineer:	Destine Hu
Check by:	Winnie Yang
Test Date:	2026/5/8

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)
11126.400000	---	42.47	54.00	11.53	V	7.1
11126.400000	54.45	---	74.00	19.55	V	7.1
12200.000000	56.86	---	74.00	17.14	H	8.9
12200.000000	---	49.59	54.00	4.41	H	8.9
14200.000000	---	44.25	54.00	9.75	V	10.8
14200.000000	55.56	---	74.00	18.44	V	10.8
16971.200000	---	44.61	54.00	9.39	V	9.4
16971.200000	51.75	---	74.00	22.25	V	9.4
17824.000000	---	47.47	54.00	6.53	H	12.8
17824.000000	53.74	---	74.00	20.26	H	12.8
17992.000000	---	47.61	54.00	6.39	H	13.8
17992.000000	57.20	---	74.00	16.80	H	13.8