

FCC PART 15.247

TEST REPORT

For

SPACEWALKER PTE. LTD.

60 PAYA LEBAR ROAD SINGAPORE Singapore

FCC ID: 2BK3M-NT5UXU

Report Type: Original Report	Product Name: Electric Scooter
Report Number: <u>RKSA260527001-00B</u>	
Report Date: <u>2026-07-17</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. 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	RKSA260527001-00B	R1 V1	2026-07-17	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	SPACEWALKER PTE. LTD.
Tested Model:	NT5 Ultra X US
Product Name:	Electric Scooter
Power Supply:	DC 46.8V from battery or DC 54.6V from adapter
RF Function:	BLE
Operating Band/Frequency:	BLE (1 Mbps): 2402-2480 MHz BLE (2 Mbps): 2404-2478 MHz
Maximum Output Power:	BLE (1 Mbps): 6.32 dBm BLE (2 Mbps): 6.33 dBm
Channel Number:	BLE (1 Mbps): 40 BLE (2 Mbps): 38
Channel Separation:	2 MHz
Modulation Type	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	1.22 dBi

Adapter Information:

Model: FY1505462450

Input: 100-240V, 50/60Hz, 2.5A

Output: 54.6V, 2.45A

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

RKSA260527001-1 (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2026-05-27.)

Objective

This report is prepared for *SPACEWALKER PTE. 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 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+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		3.19 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

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

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 was tested with channel 0, 19 and 39, EUT BLE 2M was tested with channel 1, 19 and 38.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF Test Tool: RTL8762x_RFTTestTool

★Power level: Default

Note: The power level was declared by the applicant.

Special Accessories

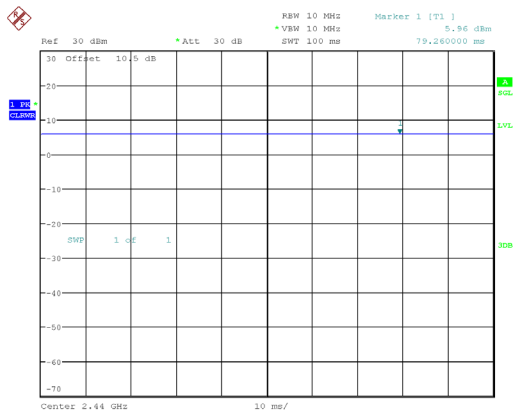
No special accessory.

Environmental Conditions & Test Information

Test Date:	2026-06-09
Temperature:	24.1 °C
Relative Humidity:	42 %
ATM Pressure:	101.3 kPa
Test Engineer:	Neil Zhou

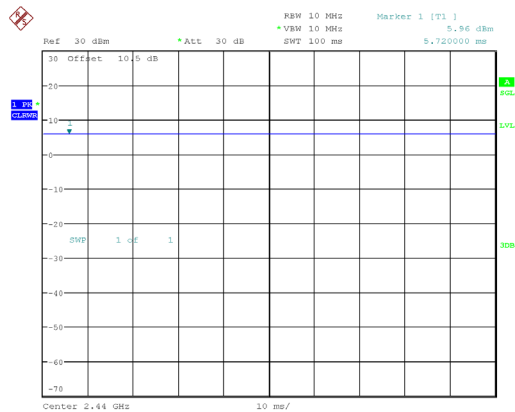
Duty Cycle:

BLE (1 Mbps)



ProjectNo.:RKSA260527001 Tester:Neil Zhou
Date: 9 JUN.2026 14:50:41

BLE (2 Mbps)



ProjectNo.:RKSA260527001 Tester:Neil Zhou
Date: 9 JUN.2026 14:51:19

Mode	Duty Cycle (%)	T _{on} (ms)	T _{on+off} (ms)
BLE (1 Mbps)	100	100	100
BLE (2 Mbps)	100	100	100

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

Support Equipment List and Details

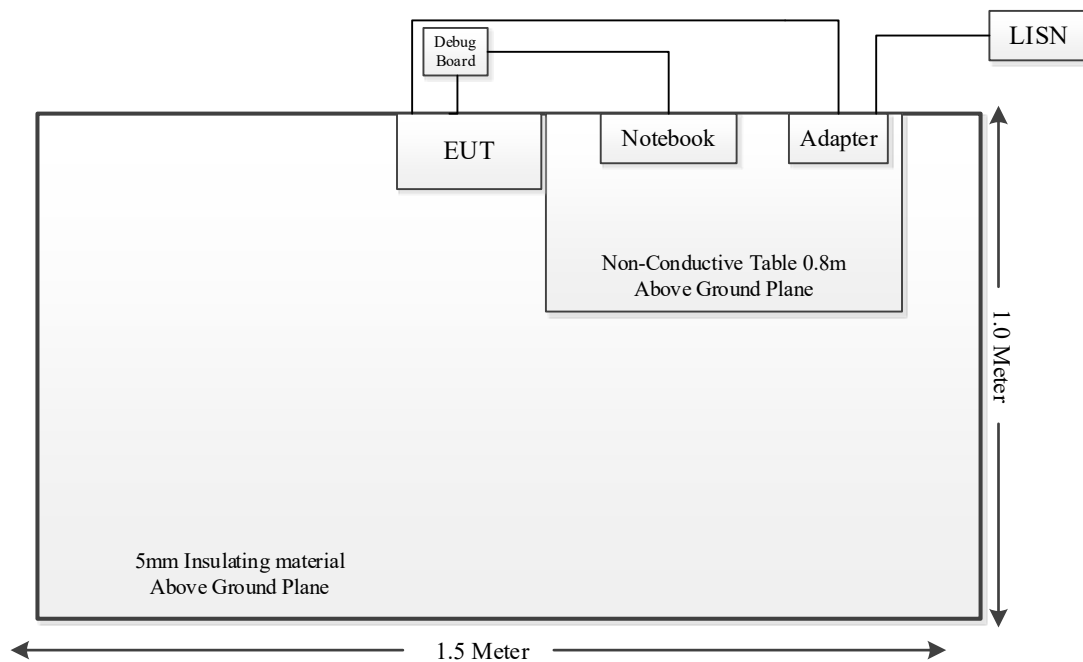
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5
/	Debug board	/	/

External I/O Cable

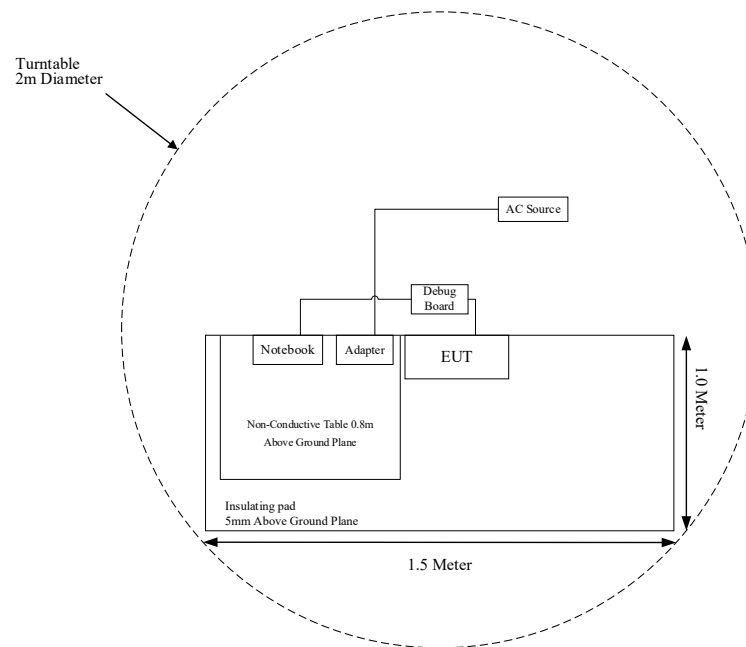
Cable Description	Length (m)	From Port	To Port
USB cable	1.2	Notebook	Debug Board
Data Cable	0.25	Debug Board	EUT
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Adapter	Power Strip /LISN/ AC Source
Power Cable 3	1.0	Power Strip	AC Source

Block Diagram of Test Setup

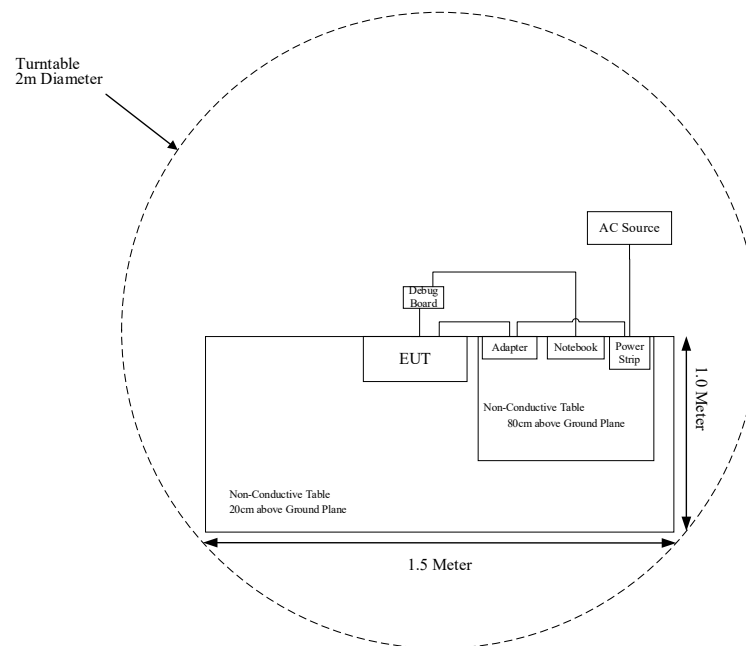
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



Note: The EUT Antenna 1.5m above Ground Plane

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	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
BACL	Active Loop Antenna	1313-1A	4041511	2025-08-10	2028-08-09
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	2024-12-03	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
SELECTOR	Amplifier	EM18G40G	60726	2026-03-16	2027-03-15
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2026-04-08	2027-04-07
Narda	Attenuator	10dB	010	2026-03-13	2027-03-12
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
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
MICRO-COAX	Coaxial Cable	Cable-25	025	2026-03-12	2027-03-11
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2026-03-16	2027-03-15
Narda	Attenuator	10dB	010	2026-03-13	2027-03-12
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	102454	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	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
§1.1307(b) & §2.1093	RF EXPOSURE	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 §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to §2.1093 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

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

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

1. f (GHz) is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

RF Exposure for devices that operate above 6 GHz (1.1310):

2.1093 (d): Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified 47 CFR 1.1310. Measurements and calculations to demonstrate compliance with MPE Field strength or power density limits for device operating above 6 GHz should be made at a minimum distance of 0.5 cm from the radiating source.

Limits for General Population/Uncontrolled Exposure

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

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)	Max Tune-up Conducted Power★		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
BLE 1M	2402-2480	6.5	4.47	5	1.4	3.0	Yes
BLE 2M	2404-2478	6.5	4.47	5	1.4	3.0	Yes

Result: No SAR test is required.

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 1.22 dBi, which is permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

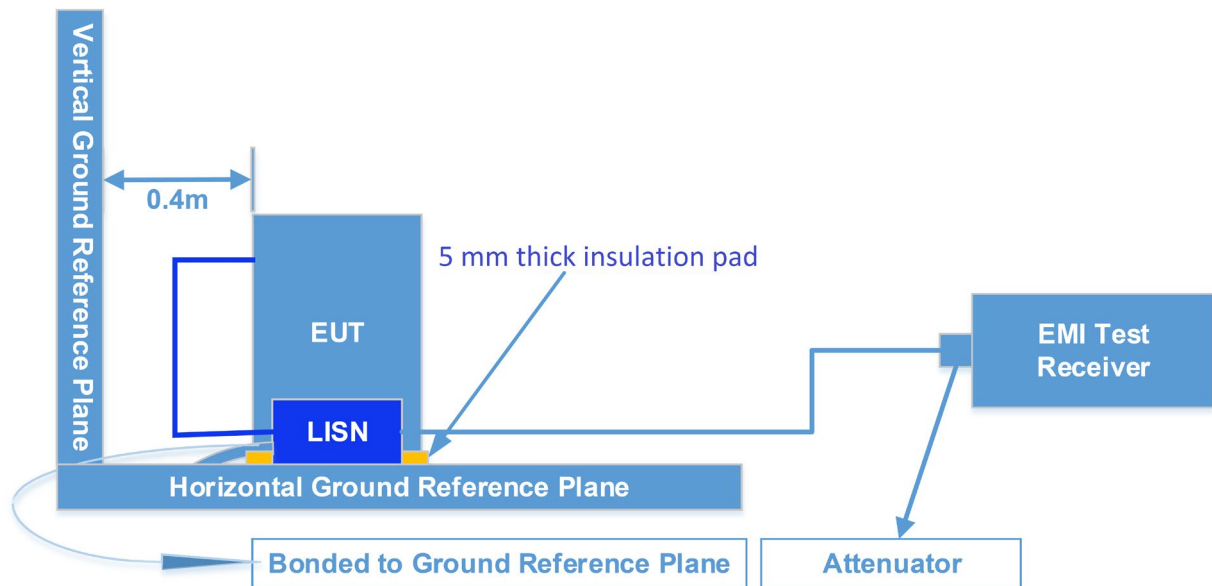
Result: Compliant.

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
150 kHz – 30 MHz	9 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

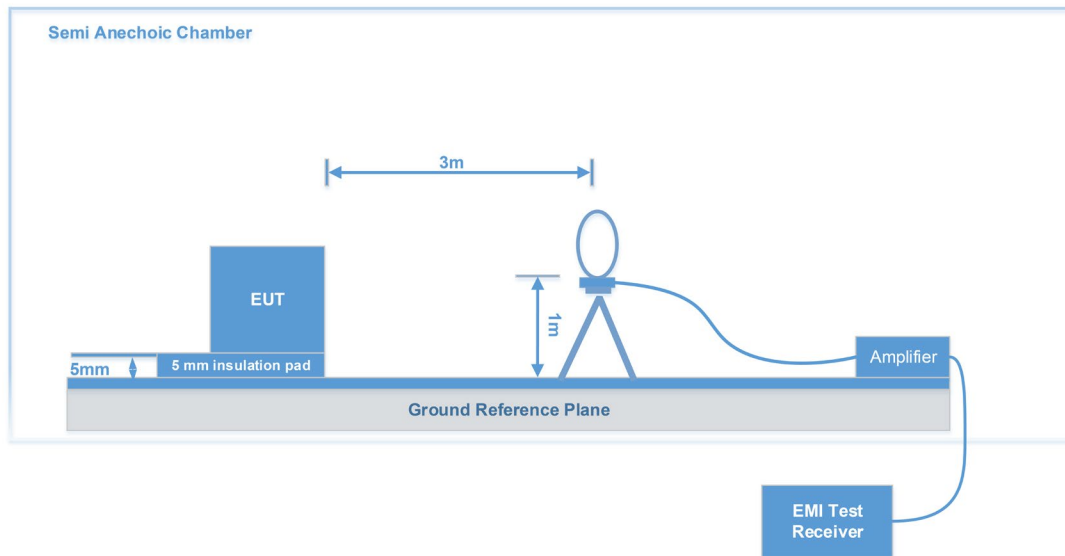
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

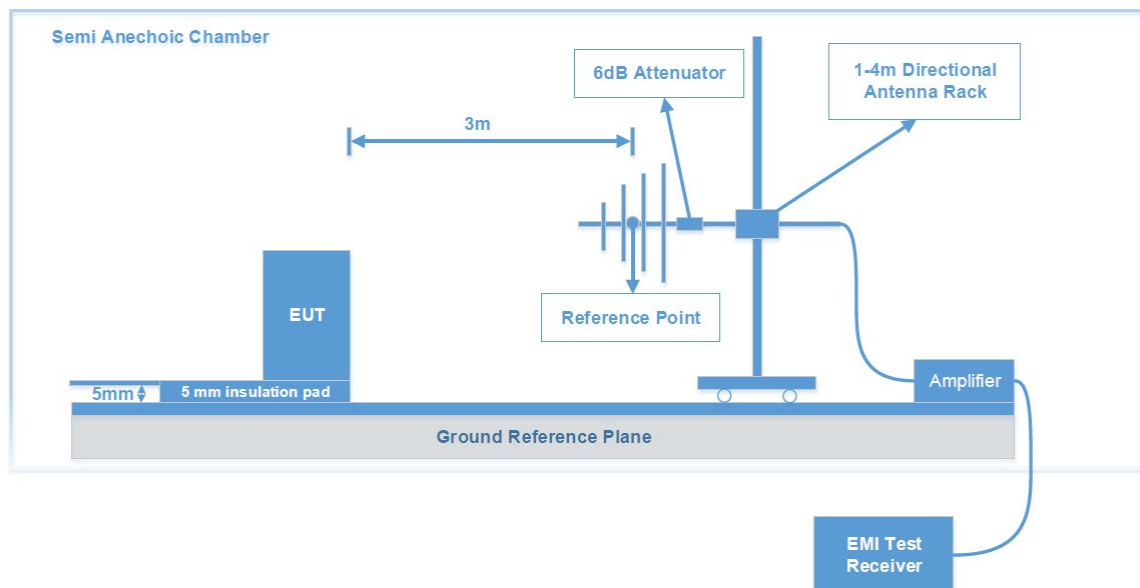
FCC §15.247 (d); §15.209; §15.205;

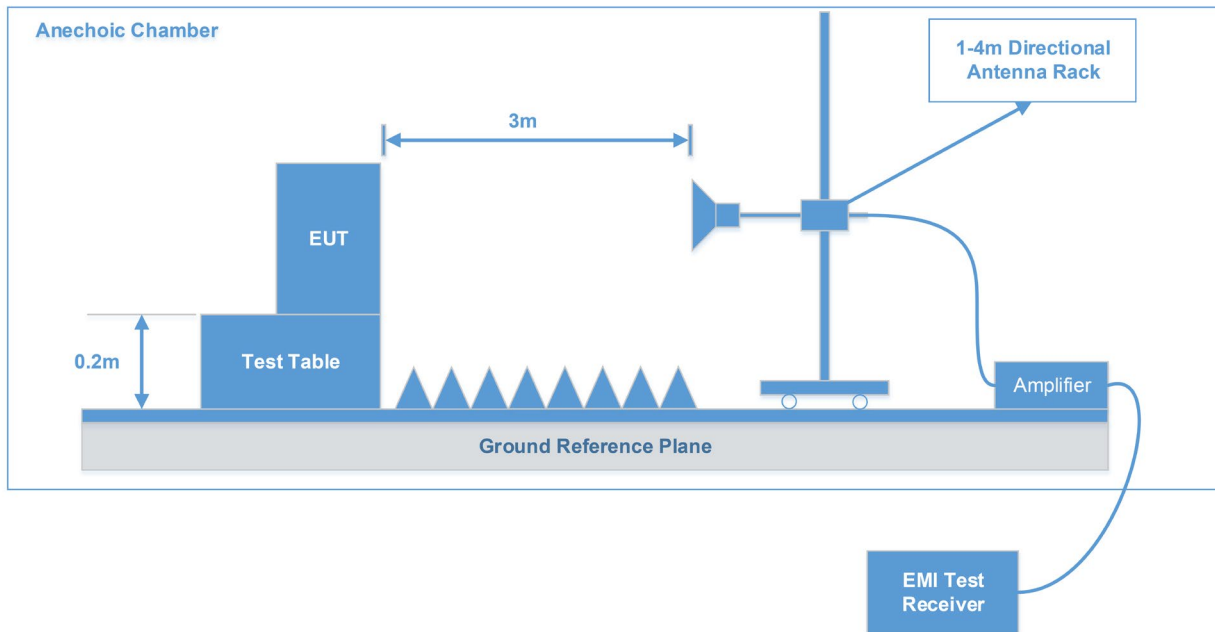
Test System Setup

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	Peak/QP
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP	Peak/QP
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

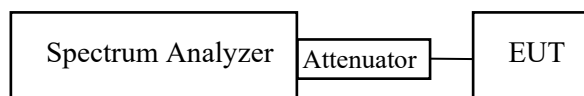
Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

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

1. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = No faster than coupled (auto) time.
6. Allow the trace to stabilize.

Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “– 6 dB down amplitude”. If a marker is below this “– 6 dB down amplitude” value, then it shall be as close as possible to this value.



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

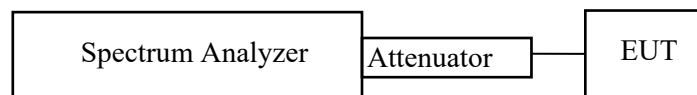
Applicable Standard

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

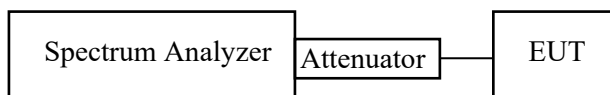
Applicable Standard

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.

Test Data: See Appendix

Conducted Spurious Emission

Applicable Standard

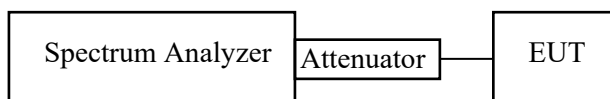
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

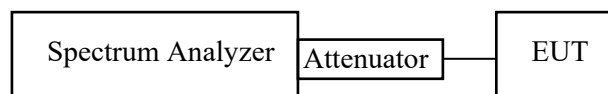
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

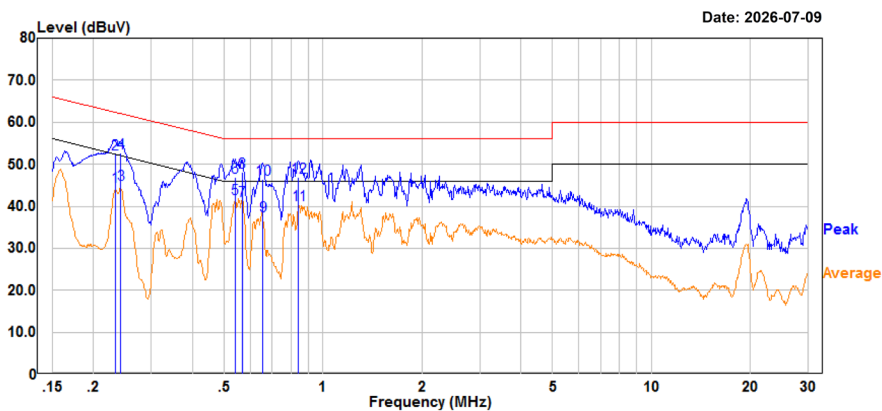
AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

Test Date:	2026-07-09
Temperature:	26.3 °C
Relative Humidity:	67 %
ATM Pressure:	101.0 kPa
Test Result:	Pass
Test Engineer:	Aiden Feng

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

AC 120V/60 Hz, Line

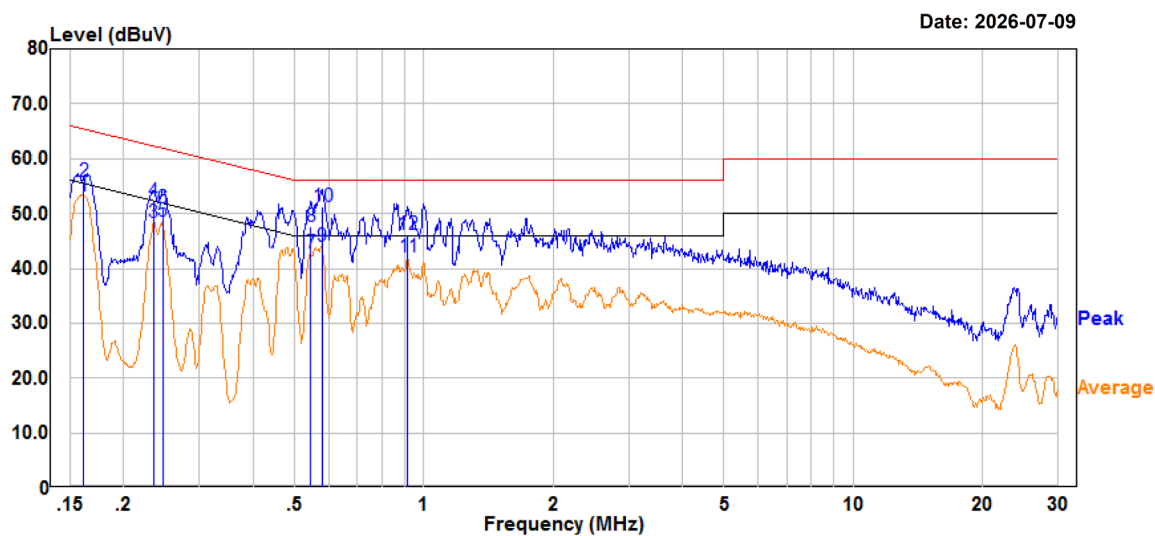


Trace: 1

Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKSA260527001
 Model : NT5 Ultra X US
 Phase : L
 Voltage : 120V/60Hz
 Mode : BLE 1M
 Test Equipment : ENV216, ESR3
 Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
 Temperature : 26.3°C
 Humidity : 67%
 Atmospheric pressure: 101.0kPa
 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	0.233	24.41	20.40	44.81	52.36	-7.55	Average
2	0.233	32.11	20.40	52.51	62.36	-9.85	QP
3	0.242	24.80	20.40	45.20	52.03	-6.83	Average
4	0.242	32.40	20.40	52.80	62.03	-9.23	QP
5	0.540	21.60	20.30	41.90	46.00	-4.10	Average
6	0.540	26.70	20.30	47.00	56.00	-9.00	QP
7	0.568	21.01	20.30	41.31	46.00	-4.69	Average
8	0.568	27.71	20.30	48.01	56.00	-7.99	QP
9	0.656	17.50	20.33	37.83	46.00	-8.17	Average
10	0.656	26.10	20.33	46.43	56.00	-9.57	QP
11	0.842	20.10	20.35	40.45	46.00	-5.55	Average
12	0.842	26.60	20.35	46.95	56.00	-9.05	QP

AC 120V/60 Hz, Neutral

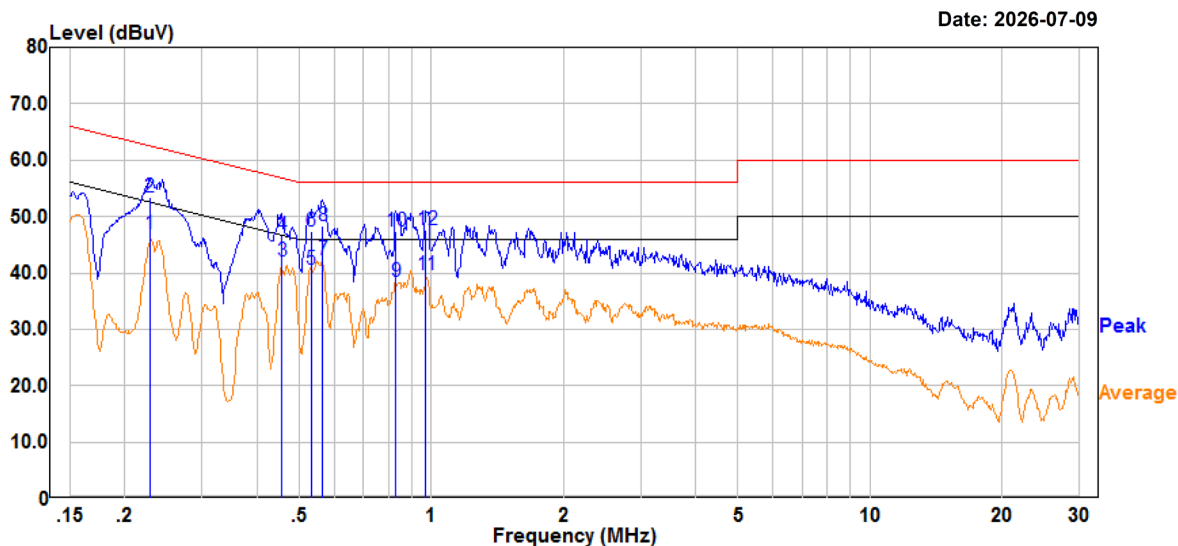


Trace: 1

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA260527001
Model : NT5 Ultra X US
Phase : N
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216, ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 26.3°C
Humidity : 67%
Atmospheric pressure: 101.0kPa
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	0.162	32.80	20.41	53.21	55.38	-2.17 Average
2	0.162	35.50	20.41	55.91	65.38	-9.47 QP
3	0.235	28.00	20.41	48.41	52.27	-3.86 Average
4	0.235	31.70	20.41	52.11	62.27	-10.16 QP
5	0.247	28.10	20.41	48.51	51.86	-3.35 Average
6	0.247	30.70	20.41	51.11	61.86	-10.75 QP
7	0.545	22.59	20.32	42.91	46.00	-3.09 Average
8	0.545	27.19	20.32	47.51	56.00	-8.49 QP
9	0.579	23.59	20.33	43.92	46.00	-2.08 Average
10	0.579	30.89	20.33	51.22	56.00	-4.78 QP
11	0.916	21.70	20.37	42.07	46.00	-3.93 Average
12	0.916	25.70	20.37	46.07	56.00	-9.93 QP

EUT operation mode: Transmitting in maximum output power BLE (2 Mbps) high channel
AC 120V/60 Hz, Line

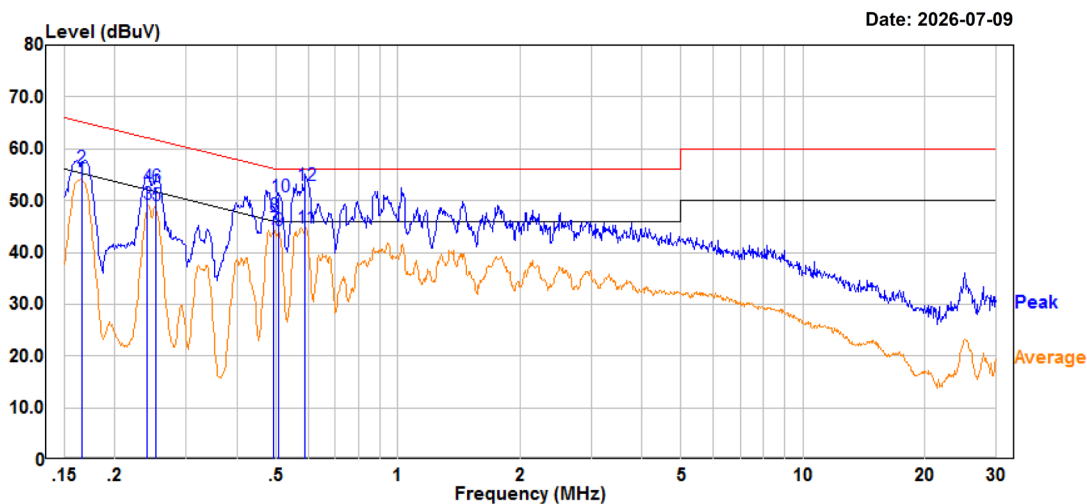


Trace: 1

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA260527001
Model : NT5 Ultra X US
Phase : L
Voltage : 120V/60Hz
Mode : BLE 2M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 26.3°C
Humidity : 67%
Atmospheric pressure: 101.0kPa
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	0.228	26.51	20.40	46.91	52.52	-5.61	Average
2	0.228	32.91	20.40	53.31	62.52	-9.21	QP
3	0.456	21.69	20.40	42.09	46.77	-4.68	Average
4	0.456	26.19	20.40	46.59	56.77	-10.18	QP
5	0.532	20.30	20.30	40.60	46.00	-5.40	Average
6	0.532	27.00	20.30	47.30	56.00	-8.70	QP
7	0.565	22.01	20.30	42.31	46.00	-3.69	Average
8	0.565	28.11	20.30	48.41	56.00	-7.59	QP
9	0.829	18.00	20.34	38.34	46.00	-7.66	Average
10	0.829	27.00	20.34	47.34	56.00	-8.66	QP
11	0.972	19.40	20.35	39.75	46.00	-6.25	Average
12	0.972	27.20	20.35	47.55	56.00	-8.45	QP

AC 120V/60 Hz, Neutral



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA260527001
Model : NT5 Ultra X US
Phase : N
Voltage : 120V/60Hz
Mode : BLE 2M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 26.3℃
Humidity : 67%
Atmospheric pressure: 101.0kPa
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	0.166	33.50	20.41	53.91	55.17	-1.26	Average
2	0.166	35.90	20.41	56.31	65.17	-8.86	QP
3	0.241	29.00	20.41	49.41	52.07	-2.66	Average
4	0.241	32.40	20.41	52.81	62.07	-9.26	QP
5	0.253	28.70	20.41	49.11	51.65	-2.54	Average
6	0.253	32.30	20.41	52.71	61.65	-8.94	QP
7	0.494	24.10	20.32	44.42	46.11	-1.69	Average
8	0.494	26.80	20.32	47.12	56.11	-8.99	QP
9	0.509	24.00	20.30	44.30	46.00	-1.70	Average
10	0.509	30.50	20.30	50.80	56.00	-5.20	QP
11	0.591	24.30	20.33	44.63	46.00	-1.37	Average
12	0.591	32.60	20.33	52.93	56.00	-3.07	QP

SPURIOUS EMISSIONS**Environmental Conditions & Test Information**

Test Item:	SPURIOUS EMISSIONS		
	9kHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2026-07-11	2026-06-09	2026-06-09
Temperature:	24.2 °C	24.1 °C	24.1 °C
Relative Humidity:	55 %	42 %	42 %
ATM Pressure:	100.8 kPa	101.3 kPa	101.3 kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Destine Hu	Hugh Wu

Test Result: Compliant.

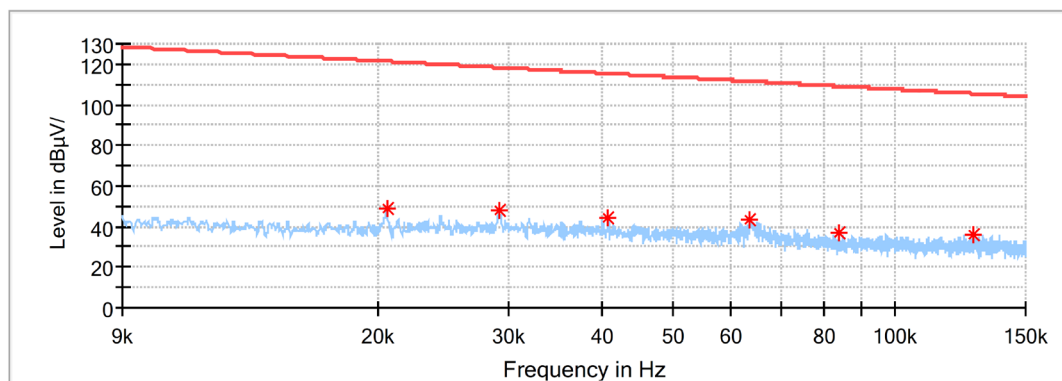
EUT operation mode: Transmitting

**9 kHz-150 kHz: Transmitting in maximum output power BLE (1 Mbps) high channel
Parallel(worst case)**

High Channel: 2480 MHz

Common Information

Project No: RKSA260527001
EUT Model: NT5 Ultra X US
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: 24.2°C
Humidity: 55%
Barometric Pressure: 100.8kPa
Test Engineer: Scarf Yang
Check by: Winnie Yang
Test Date: 2026/7/11



Critical_Freqs

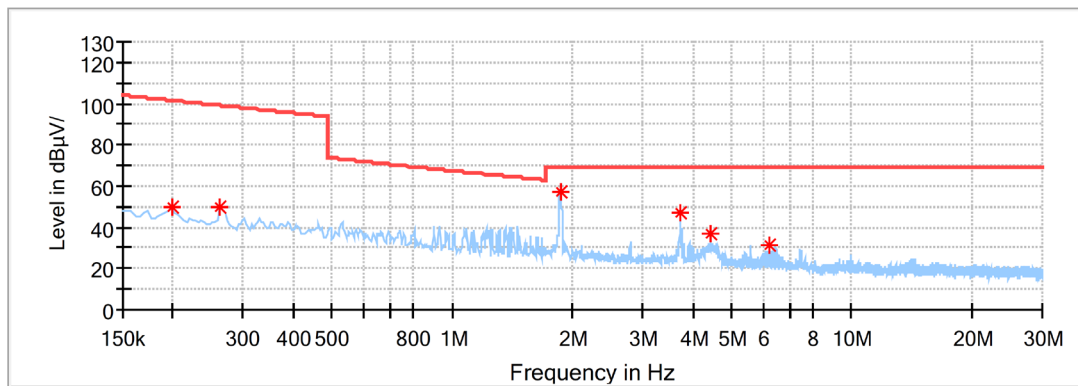
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.020509	49.27	121.36	72.09	Parallel	-0.1
0.029075	47.67	118.34	70.67	Parallel	0.0
0.040901	44.08	115.36	71.28	Parallel	-1.8
0.063585	43.14	111.54	68.39	Parallel	-4.8
0.083853	37.21	109.13	71.92	Parallel	-7.1
0.127528	35.61	105.49	69.88	Parallel	-9.7

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

High Channel: 2480 MHz

Common Information

Project No:	RKSA260527001
EUT Model:	NT5 Ultra X US
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: 9k Hz, VBW: 30 kHz, Sweep Time: Auto
Temperature:	24.2°C
Humidity:	55%
Barometric Pressure:	100.8kPa
Test Engineer:	Scarf Yang
Check by:	Winnie Yang
Test Date:	2026/7/11



Critical_Freqs

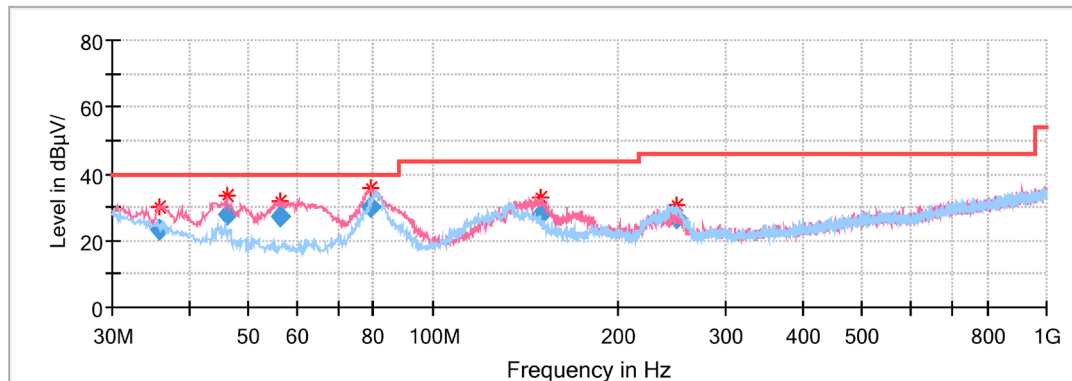
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
0.198506	49.47	101.55	52.08	Parallel	-12.7
0.261938	49.40	99.11	49.71	Parallel	-15.4
1.866375	57.09	69.54	12.45	Parallel	-30.0
3.720806	46.65	69.54	22.89	Parallel	-31.2
4.433475	36.76	69.54	32.78	Parallel	-31.3
6.231938	31.55	69.54	37.99	Parallel	-31.6

**30 MHz - 1 GHz: Transmitting in maximum output power BLE 1M high channel
Parallel(worst case)**

High Channel: 2480 MHz

Common Information

Project No:	RKSA260527001
EUT Model:	NT5 Ultra X US
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:	24.2°C
Humidity:	55%
Barometric Pressure:	100.8 kPa
Test Engineer:	Scarf Yang
Check by:	Winnie Yang
Test Date:	2026/7/11



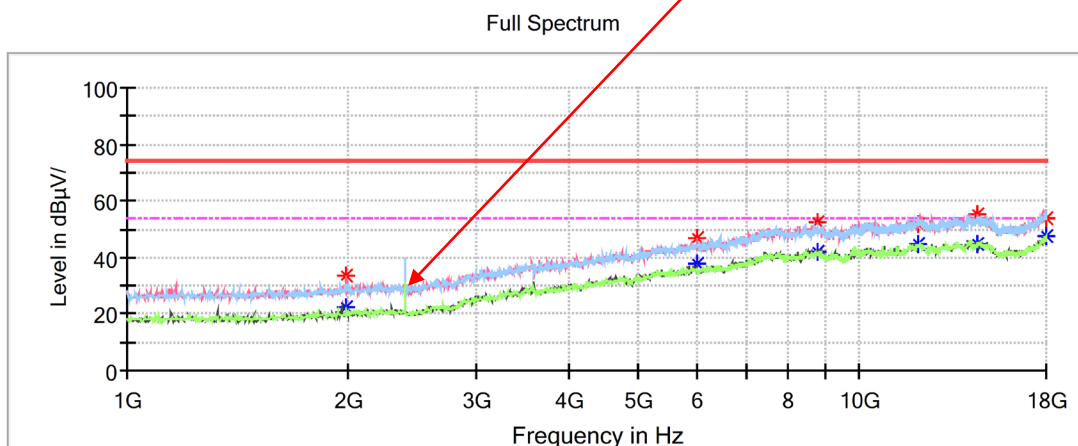
Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
35.698750	23.36	40.00	16.64	V	-8.6
46.247500	27.70	40.00	12.30	V	-14.2
56.311250	27.40	40.00	12.60	V	-16.9
79.348750	29.93	40.00	10.07	V	-17.1
149.431250	27.95	43.50	15.55	V	-11.4
249.341250	26.81	46.00	19.19	H	-11.9

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

Project No.:	RKSA260527001
EUT Model:	NT5 Ultra X US
Test Mode:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Standard:	Transmitting in BLE-1M Low Channel
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	24.1°C
Humidity:	42%
Atmospheric Pressure:	101.3kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/6/9

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)
1989.400000	33.53	---	74.00	40.47	H	-11.7
1989.400000	---	22.18	54.00	31.82	H	-11.7
5998.000000	46.66	---	74.00	27.34	V	-0.7
5998.000000	---	37.77	54.00	16.23	V	-0.7
8769.000000	---	41.92	54.00	12.08	V	4.8
8769.000000	52.61	---	74.00	21.39	V	4.8
11999.000000	---	44.86	54.00	9.14	V	9.0
11999.000000	52.08	---	74.00	21.92	V	9.0
14521.800000	55.08	---	74.00	18.92	H	11.0
14521.800000	---	45.00	54.00	9.00	H	11.0
17966.000000	---	47.84	54.00	6.16	V	13.6
17966.000000	54.03	---	74.00	19.97	V	13.6