



FCC PART 15.247

TEST REPORT

For

Brightway Innovation Intelligent Technology (Suzhou) Co., Ltd.

Building A2, Shangjinwan Headquarters Economic Park, No.2288, Wuzhong Avenue, Wuzhong Economic Development Zone, Suzhou Jiangsu P.R. China

FCC ID: 2A4GZ-S40U350

Report Type:	Report Type: Product Name:		
Original Report		NAVEE Electric Scooter	
Report Number:	RKSA240822002-0	00A	
Report Date:	2024-11-13		
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA240822002-00A	R1V1	2024-11-13	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Brightway Innovation Intelligent Technology (Suzhou) Co., Ltd.
Tested Model:	S40-U
Product Name:	NAVEE Electric Scooter
Power Supply:	DC 36 V
RF Function:	BLE 1Mbps, BLE 2Mbps
Operating Band/Frequency:	2402-2480MHz
Maximum Output Power:	BLE (1 Mbps): 7.52 dBm BLE (2 Mbps): 7.53 dBm
Channel Number:	40
Channel Separation:	2 MHz
Modulation Type	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	0.21 dBi

Adapter Information: Model: LI-0554200130NA Input: 100-240V~50-60Hz, 2.0A MAX Output: 41.0V, 1.3A, 42.0V MAX

Note: The highest operation frequency was provided by the applicant.

All measurement and tested data in this report was gathered from production sample serial number: RKSA240822002-1 (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2024-08-22.)

Objective

This report is prepared for *Brightway Innovation Intelligent Technology (Suzhou) 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 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 C63.10-2013, 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 Line	es Conducted Emissions	3.19 dB
RF conducte	ed test with spectrum	0.9 dB
RF Output Po	wer with Power meter	0.5 dB
	9 kHz~150 kHz	3.8 dB
	150 kHz~30 MHz	3.4 dB
	30MHz~1GHz	6.11 dB
Radiated emissions	1GHz~6GHz	4.45 dB
	6GHz~18GHz	5.23 dB
	18GHz~40GHz	5.65 dB
Occup	ied Bandwidth	0.5 kHz
Τε	emperature	1.0 °C
I	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.

EUT Exercise Software

RF Test Tool: RTL8762x_RFTestTool.exe

★Power level: Default

Note: The power level was declared by the applicant.

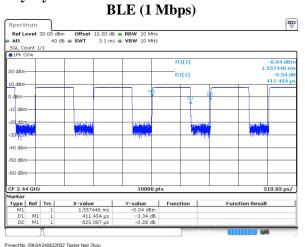
Special Accessories

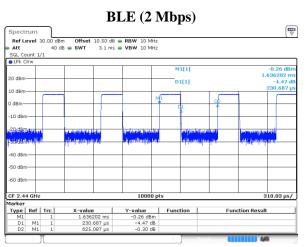
No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Duty Cycle:





ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:46:13

Date: 13.SEP.2024 13:33:45

Mode	Duty Cycle (%)	T _{on} (ms)	T _{on+off} (ms)	10log(1/x)
BLE (1 Mbps)	65.76	0.411	0.625	1.82
BLE (2 Mbps)	36.96	0.231	0.625	4.32

Note: "x" means the Duty Cycle.

Support Equipment List and Details

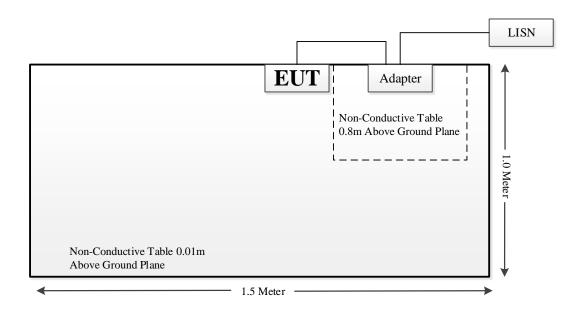
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

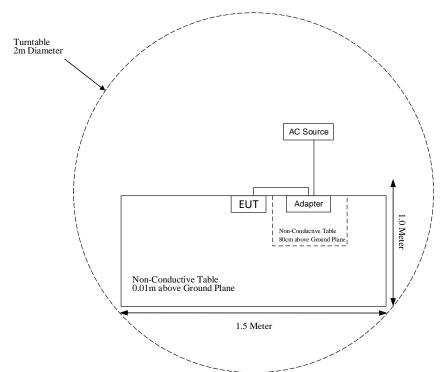
Cable Description	Length (m)	From Port	То
Power Cable 1	1.0	AC Source/LISN	Adapter
Power Cable 2	1.5	Adapter	EUT

Block Diagram of Test Setup

For Conducted Emissions:

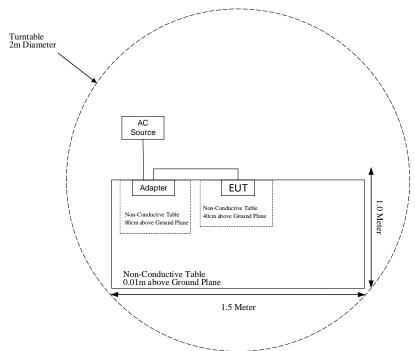


For Radiated Emissions(Below 1GHz):



Note: The antenna and the intentional radiator circuitry of the EUT located at a height of 110cm above the floor

For Radiated Emissions(Above 1GHz):



Note: The antenna and the intentional radiator circuitry of the EUT located at a height of 1.5 m above the floor

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	2024-04-23	2025-04-22	
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2023-11-11	2024-11-10	
ETS-LINDGREN	Loop Antenna	6512	108100	2023-11-09	2024-11-08	
Narda	6 dB Attenuator	773-6	10690812-2-1	2023-11-11	2024-11-10	
Sonoma Instrument	Pre-amplifier	310N	171205	2024-04-23	2025-04-22	
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A	
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22	
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22	
	Radiated	Emission Test (Cha	mber #2)	·		
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24	
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2023-12-02	2024-12-01	
ETS-LINDGREN	Horn Antenna	3116	2516	2023-12-08	2024-12-07	
A.H.Systems,inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24	
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2024-04-23	2025-04-22	
Narda	Attenuator	10dB	010	2024-04-23	2025-04-22	
SELECTOR	Amplifier	EM18G40G	60726	2024-04-25	2025-04-24	
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A	
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	2025-04-24	
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24	
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24	
		RF Conducted Test				
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	103298	2024-04-24	2025-04-23	
Narda	Attenuator	10dB	010	2024-04-23	2025-04-22	
XHFDZ	RG178 Coaxial Cable	SMA-178	XHF-1102	Each time	N/A	
	Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2024-04-23	2025-04-22	
Rohde & Schwarz	LISN	ENV216	101115	2024-04-23	2025-04-22	
Audix	Test Software	e3	V9	N/A	N/A	
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	0357.8810.54	2024-04-23	2025-04-22	
MICRO-COAX	Coaxial Cable	Cable-15	015	2024-04-23	2025-04-22	

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

		- 1
FCC Rules	Description of Test	Result
§1.1307(b)(1)& §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(e)	Power Spectral Density	Compliant

FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to \$15.247(i) and \$1.1310, 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 KDB447498 D01 General RF Exposure Guidance v06:

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

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

Mode	Frequency Range (MHz)	Max Tune-up Conducted Power		Calculated Distance	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
	(191112)	(dBm)	(mW)	(mm)	value	(1 - g 5/ 1K)	Exclusion
BLE	2402-2480	8.0	6.31	5.0	2.0	3.0	Yes

Result: So the standalone SAR evaluation is not necessary.

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

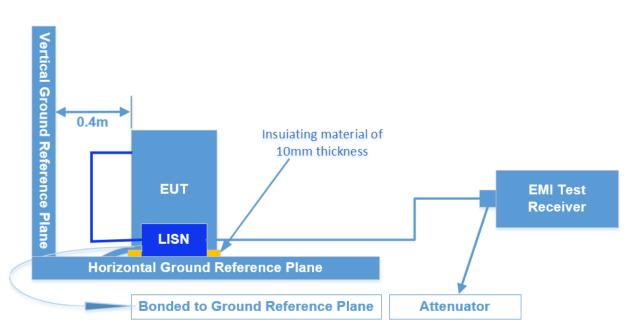
Result: Compliant.

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 C63.10-2013. The related limit was specified in FCC Part 15.207.

EMI Test Receiver Setup

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

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

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

Test Procedure

ANSI C63.10-2013 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 (dB μ V) = Read level (dB μ V) + 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 (dB μ V) - Limit (dB μ V)

Test Results Summary

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

EMI Test Receiver

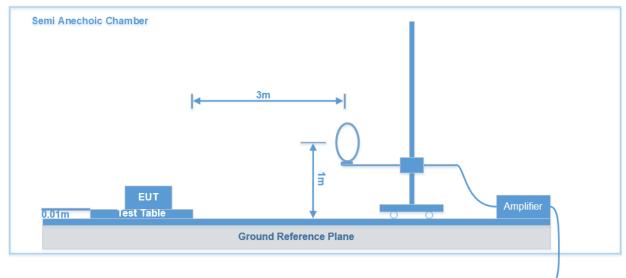
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

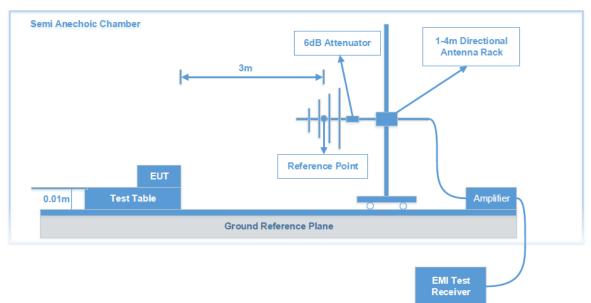
FCC §15.247 (d); §15.209; §15.205;

Test System Setup

9 kHz - 30 MHz:



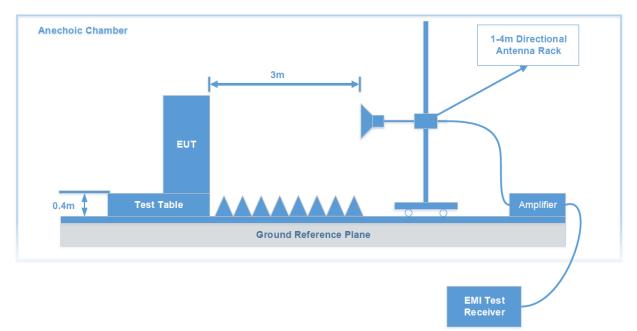
30 MHz - 1 GHz:



Note: The antenna and the intentional radiator circuitry of the EUT located at a height of 110cm above the floor

FCC Part 15.247

Above 1 GHz: (Note: The antenna and the intentional radiator circuitry of the EUT located at a height of 1.5 m above the floor)



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 25 GHz.

/

1MHz

1MHz

Frequency Range	RBW	VBW	IF B/W	Measurement
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
	100 kHz	300 kHz	/	Peak

/

3 MHz

3 MHz

120 kHz

/

/

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

Test Procedure

30 MHz - 1000 MHz

Above 1GHz

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.

OP

Peak

Average

Bay Area Compliance Laboratories Corp. (Kunshan)

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:

Corrected Amplitude $(dB\mu V/m) =$ Meter Reading $(dB\mu V) +$ Antenna Factor (dB/m) + Cable Loss (dB) - 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:

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Note: The QuasiPeak ($dB\mu V/m$), MaxPeak ($dB\mu V/m$), Average ($dB\mu V/m$) 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.

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 C63.10-2013 sub-clause 11.8.1

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 * RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



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

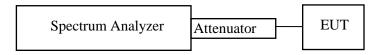
Applicable Standard

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 C63.10-2013 sub-clause 11.9.1.1

- 1. Set the RBW \geq DTS bandwidth.
- 2. Set VBW \geq 3 * RBW.
- 3. Set span \geq 3 * 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.



FCC §15.247(d) – BAND EDGE

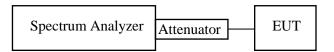
Applicable Standard

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

Test Procedure

According to ANSI C63.10-2013 sub-clause 6.10.

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



FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

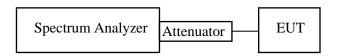
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of 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 C63.10-2013 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:

- 1. Set the RBW to: $3kHz \le RBW \le 100 kHz$.
- 2. Set the VBW \geq 3*RBW.
- 3. Set the span to 1.5 times the DTS bandwidth.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



EUT PHOTOGRAPHS

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

TEST SETUP PHOTOGRAPHS

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

APPENDIX - TEST DATA

Environmental Conditions & Test Information

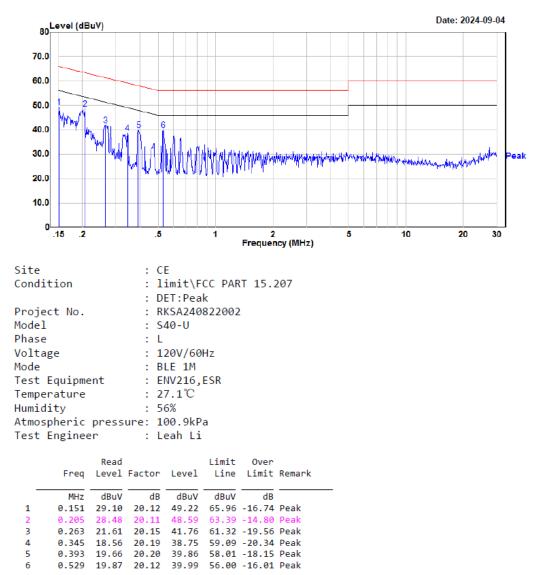
To a Maria	AC LINE		DUTY			
Test Item:	Test Item: CONDUCTED EMISSIONS		9kHz - 1GHz		18 GHz - 25 GHz	CYCLE
Test Date:	2024-09-04	2024-09-07	2024-09-08	2024-09-08	2024-09-24	2024-09-13
Temperature:	27.1 °C	25.4 °C	25 °C	25 °C	25.8 °C	24 °C
Relative Humidity:	56 %	44 %	40 %	40 %	50 %	52 %
ATM Pressure:	100.9 kPa	101.2 kPa	100.5 kPa	100.5 kPa	100.3 kPa	101.0 kPa
Test Result:	Pass	Pass	Pass	Pass	Pass	/
Test Engineer:	Leah Li	Grace Luo	Grace Luo	Klein Zhu	Hugh Wu	Neil Zhou

Test Item:	6 DB EMISSION BANDWIDTH	MAXIMUM CONDUCTED OUTPUT POWER	BAND EDGE	POWER SPECTRAL DENSITY
Test Date:	2024-09-13	2024-09-13	2024-09-13	2024-09-13
Temperature:	25.6 °C	25.6 °C	25.6 °C	25.6 °C
Relative Humidity:	49 %	49 %	49 %	49 %
ATM Pressure:	100.6 kPa	100.6 kPa	100.6 kPa	100.6 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou	Neil Zhou	Neil Zhou

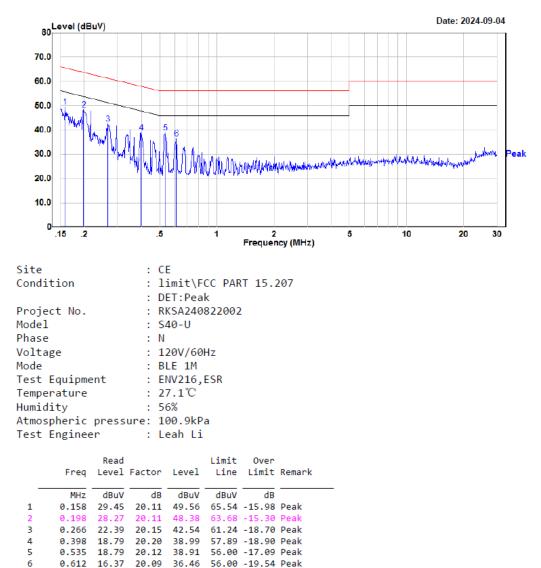
AC LINE CONDUCTED EMISSIONS

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

AC 120V/60 Hz, Line

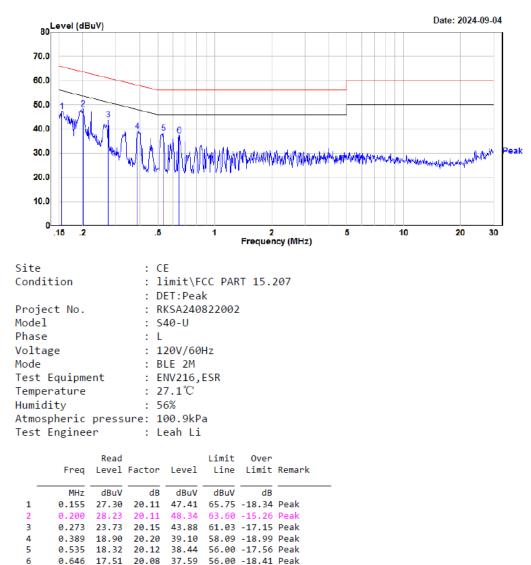


AC 120V/60 Hz, Neutral



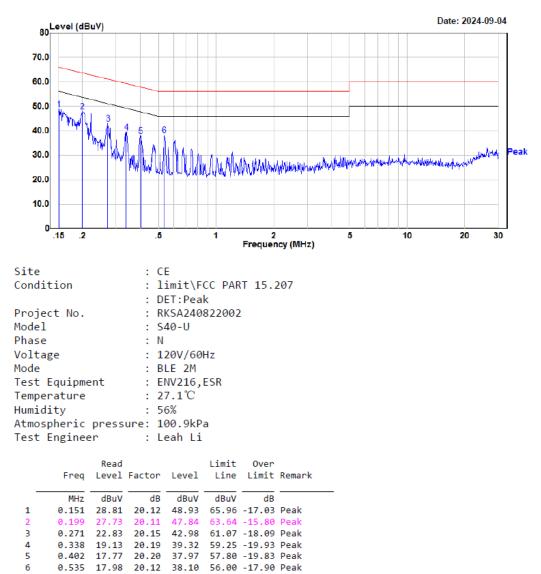
EUT operation mode: Transmitting in BLE (2 Mbps) high channel (maximum output power)

AC 120V/60 Hz, Line



6

AC 120V/60 Hz, Neutral

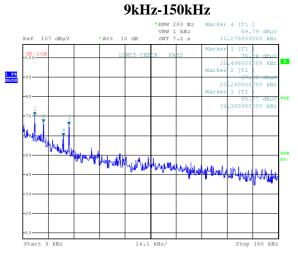


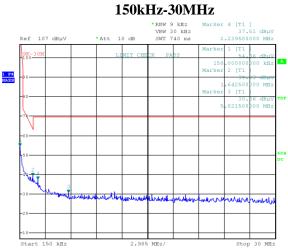
SPURIOUS EMISSIONS

Test Result: Compliant.

EUT operation mode: Transmitting

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





Project No.RKSA240822002 Date: 8.SEP.2024 01:42:12 Tester:Grace Luo

Project No.RKSA240822002 Date: 8.SEP.2024 01:32:20 Tester:Grace Luo

<u>9 kHz-150 kHz</u>

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) 300m	Limit (dBµV/m) @3m	Margin (dB)
0.02	70.66	PK	52.87	43.81	123.81	53.15
0.02	67.02	PK	49.92	41.46	121.46	54.44
0.03	65.77	PK	46.06	36.88	116.88	51.11
0.03	59.79	РК	46.87	37.70	117.70	57.91

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) 30m	Limit (dBµV/m) @3m	Margin (dB)
0.15	54.66	PK	50.90	64.08	104.08	49.42
1.64	39.33	PK	9.75	23.29	63.29	23.96
5.82	30.86	PK	7.40	29.54	69.54	38.68
2.24	37.51	РК	13.39	29.54	69.54	32.03

FCC Part 15.247

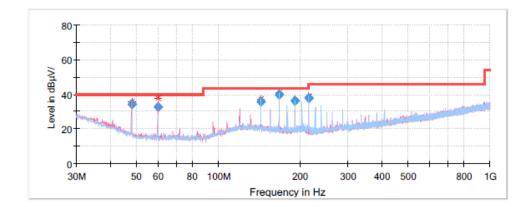
BLE (1 Mbps) 30 MHz - 1 GHz:

Low Channel: 2402 MHz

Common Information

Project No:
EUT Model:
Test Mode:
Standard:
Test Equipment:
Temperature:
Humidity:
Barometric Pressure:
Test Engineer:
Test Date:

RKSA240822002 S40-U Transmitting in BLE-1M mode low channel FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247 ESCI, JB3, 310N 25.4°C 44% 101.2kPa Grace Luo 2024/9/7



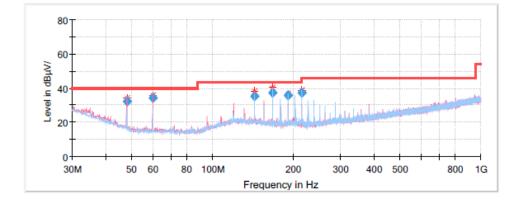
Final Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
48.000200	34.28	40.00	5.72	V	-15.7
60.008750	32.58	40.00	7.42	V	-17.6
143.582700	35.83	43.50	7.67	Н	-11.5
167.433250	39.92	43.50	3.58	Η	-12.5
191.456900	36.16	43.50	7.34	Н	-12.6
215.365400	37.95	43.50	5.55	Н	-13.2

Middle Channel: 2440 MHz

Common Information Projec EUT N

Project No:	RKSA240822002
EUT Model:	S40-U
Test Mode:	Transmitting in BLE-1M mode middle channel
Standard:	FCC Part 15.205 & FCC Part 15.209& FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Temperature:	25.4℃
Humidity:	44%
Barometric Pressure:	101.2kPa
Test Engineer:	Grace Luo
Test Date:	2024/9/7



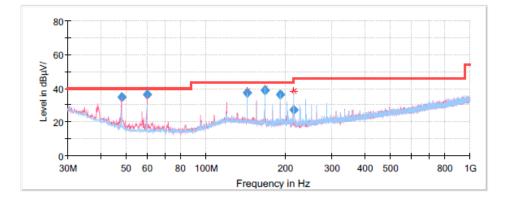
Final Result

Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
48.003200	32.40	40.00	31.32	V	-15.7
60.009950	34.20	40.00	32.32	V	-17.6
143.505650	35.40	43.50	33.17	V	-11.5
167.754900	37.20	43.50	13.36	Н	-12.5
191.462600	35.56	43.50	7.94	Н	-12.6
215.404450	37.41	43.50	6.09	Н	-13.2

High Channel:2480 MHz

Common Information

Project No:	RKSA240822002
EUT Model:	S40-U
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
Temperature:	25.4℃
Humidity:	44%
Barometric Pressure:	101.2kPa
Test Engineer:	Grace Luo
Test Date:	2024/9/7



Final_Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
48.009800	34.54	40.00	5.46	V	-15.7
60.001550	36.41	40.00	3.59	V	-17.6
143.421000	37.30	43.50	6.20	V	-11.5
167.573900	38.89	43.50	4.61	Н	-12.5
191.375900	36.01	43.50	7.49	Н	-12.6
215.021500	27.16	43.50	16.34	Н	-13.2

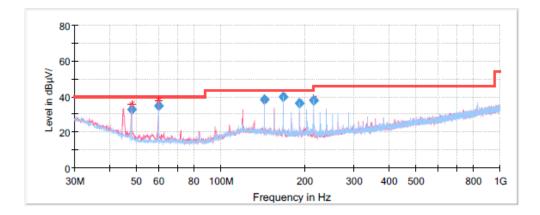
BLE (2 Mbps) 30 MHz - 1 GHz:

Low Channel: 2402 MHz

Common Information

Project No:
EUT Model:
Test Mode:
Standard:
Test Equipment:
Temperature:
Humidity:
Barometric Pressure:
Test Engineer:
Test Date:

RKSA240822002 S40-U Transmitting in BLE-2M mode low channel FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247 ESCI, JB3, 310N 25.4°C 44% 101.2kPa Grace Luo 2024/9/7



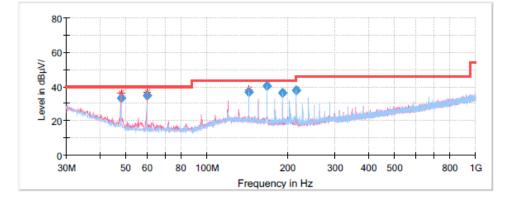
Final_Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
47.979800	32.71	40.00	7.29	V	-15.7
60.000950	34.85	40.00	5.15	V	-17.6
143.538050	38.03	43.50	5.47	V	-11.5
167.449800	39.85	43.50	3.65	H	-12.5
191.392750	36.26	43.50	7.24	Н	-12.6
215.382850	37.87	43.50	5.63	Н	-13.2

Middle Channel: 2440 MHz

Common Information

Project No:	RKSA240822002
EUT Model:	S40-U
Test Mode:	Transmitting in BLE-2M mode middle channel
Standard:	FCC Part 15.205 & FCC Part 15.209& FCC Part 15.247
Test Equipment:	ESCI, JB3, 310N
Temperature:	25.4℃
Humidity:	44%
Barometric Pressure:	101.2kPa
Test Engineer:	Grace Luo
Test Date:	2024/9/7



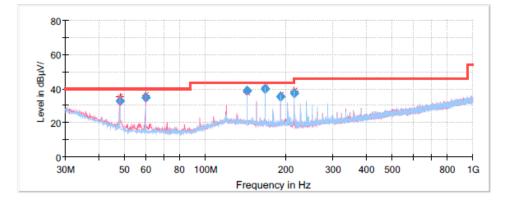
Final_Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
47.993900	33.17	40.00	6.83	V	-15.7
60.006350	34.90	40.00	5.10	V	-17.6
143.673000	36.50	43.50	7.00	V	-11.6
167.439300	40.05	43.50	3.45	Н	-12.5
191.355300	36.07	43.50	7.43	Н	-12.6
215.331200	37.93	43.50	5.57	Н	-13.2

High Channel:2480 MHz

Common Information

Project No:	RKSA240822002
EUT Model:	S40-U
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, JB3, 310N
Temperature:	25.4°C
Humidity:	44%
Barometric Pressure:	101.2kPa
Test Engineer:	Grace Luo
Test Date:	2024/9/7

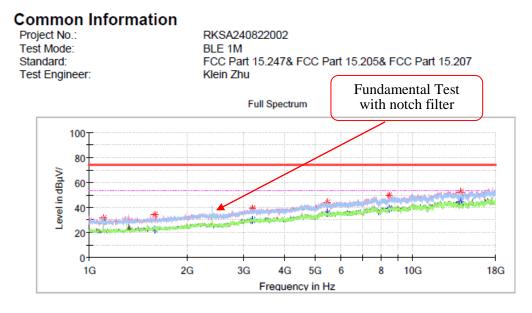


Final_Result

Frequency (MHz)	QuasiPeak (dBμ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
48.004100	32.95	40.00	7.05	V	-15.7
60.008450	34.96	40.00	5.04	V	-17.6
143.531100	38.82	43.50	4.68	V	-11.5
167.503500	40.00	43.50	3.50	H	-12.5
191.299150	35.01	43.50	8.49	Н	-12.6
215.312000	37.30	43.50	6.20	Н	-13.2

BLE (1 Mbps) 1 GHz-18 GHz:

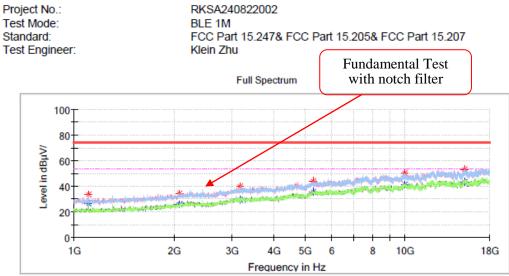
Low Channel: 2402 MHz



Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB µ V/m)	(dB µ V/m)	(dB µ V/m)	(dB)		(dB/m)
1103.700000		29.00	54.00	25.00	Н	-15.3
1103.700000	31.80		74.00	42.20	Н	-15.3
1595.000000	34.21		74.00	39.79	V	-14.2
1595.000000		22.65	54.00	31.35	V	-14.2
3184.500000	39.36		74.00	34.64	Н	-7.7
3184.500000		30.27	54.00	23.73	Н	-7.7
5443.800000	44.30		74.00	29.70	Н	-0.6
5443.800000		35.71	54.00	18.29	Н	-0.6
8432.400000	49.41		74.00	24.59	V	5.2
8432.400000		39.08	54.00	14.92	V	5.2
14008.400000		44.54	54.00	9.46	V	9.8
14008.400000	52.42		74.00	21.58	V	9.8

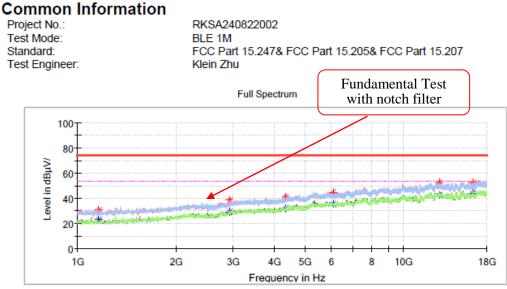
Middle Channel: 2440 MHz

Common Information



Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1103.700000	33.36	(ub # v/m)	74.00	40.64	н	-15.3
	33.30					
1103.700000		26.67	54.00	27.33	н	-15.3
2076.100000	34.44		74.00	39.56	V	-11.5
2076.100000		25.92	54.00	28.08	V	-11.5
3170.900000	40.14		74.00	33.86	Н	-7.7
3170.900000		29.18	54.00	24.82	Н	-7.7
5265.300000	44.22		74.00	29.78	V	-1.3
5265.300000		35.46	54.00	18.54	V	-1.3
10011.700000		41.25	54.00	12.75	Η	7.2
10011.700000	50.53		74.00	23.47	Н	7.2
15132.100000		43.67	54.00	10.33	Н	9.5
15132.100000	53.08		74.00	20.92	Н	9.5

High Channel: 2480 MHz



Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1158.100000		22.93	54.00	31.07	V	-15.2
1158.100000	31.04		74.00	42.96	V	-15.2
2932.900000		29.10	54.00	24.90	Н	-8.7
2932.900000	38.57		74.00	35.43	H	-8.7
4350.700000		31.86	54.00	22.14	V	-4.8
4350.700000	40.96		74.00	33.04	V	-4.8
6086.400000		35.38	54.00	18.62	V	0.1
6086.400000	44.81		74.00	29.19	V	0.1
12879.600000		42.82	54.00	11.18	Н	9.7
12879.600000	52.33		74.00	21.67	Н	9.7
16311.900000		44.30	54.00	9.70	Н	10.3
16311.900000	52.61		74.00	21.39	Н	10.3

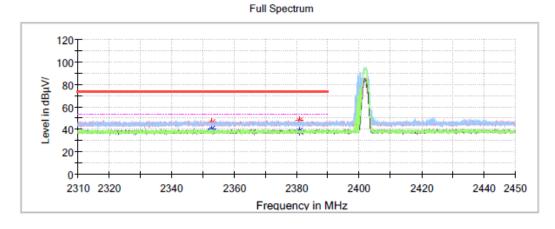
RESTRICTED BANDS EMISSION:

Left Side

Common Information

Project No.:	
Test Mode:	
Standard:	
Test Engineer:	

RKSA240822002 BLE 1M FCC Part 15.247& FCC Part 15.205& FCC Part 15.207 Klein Zhu

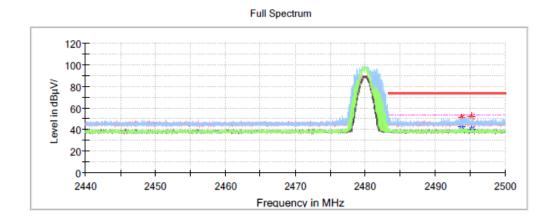


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2352.980000		40.31	54.00	13.69	V	-0.7
2352.980000	46.43		74.00	27.57	V	-0.7
2380.840000		38.93	54.00	15.07	H	-0.6
2380.840000	48.04		74.00	25.96	H	-0.6

Right Side

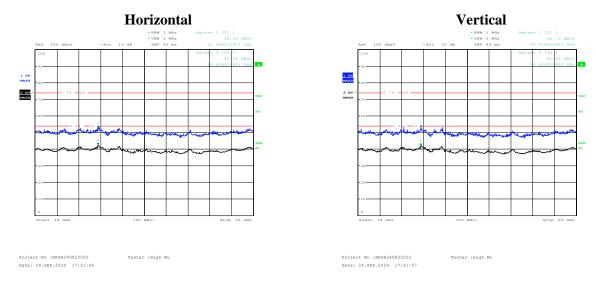
Common Information

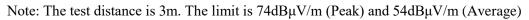
Project No.: Test Mode: Standard: Test Engineer: RKSA240822002 BLE 1M FCC Part 15.247& FCC Part 15.205& FCC Part 15.207 Klein Zhu



Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2493.808000		42.93	54.00	11.07	Η	-0.2
2493.808000	51.18		74.00	22.82	Η	-0.2
2495.260000		39.98	54.00	14.02	Η	-0.2
2495.260000	52.29		74.00	21.71	Н	-0.2







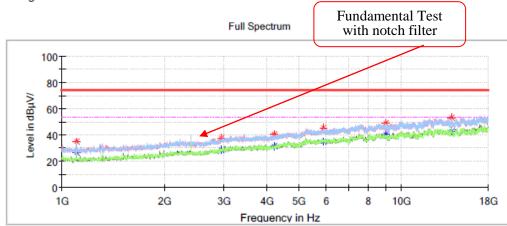
BLE (2 Mbps) 1GHz-18GHz:

Low Channel: 2402 MHz

Common Information

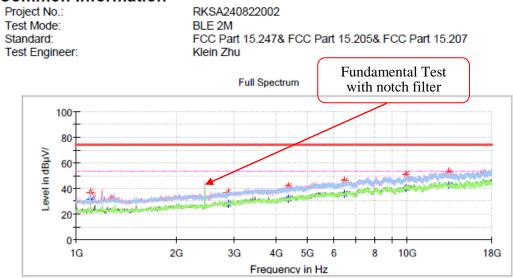
Project No.:
Test Mode:
Standard:
Test Engineer:

RKSA240822002 BLE 2M FCC Part 15.247& FCC Part 15.205& FCC Part 15.207 Klein Zhu



Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB µ V/m)	(dB µ V/m)	(dB µ V/m)	(dB)		(dB/m)
1102.000000	34.65		74.00	39.35	н	-15.3
1102.000000		26.85	54.00	27.15	Н	-15.3
2934.600000		28.39	54.00	25.61	٧	-8.7
2934.600000	37.99		74.00	36.01	V	-8.7
4226.600000		31.53	54.00	22.47	Н	-5.2
4226.600000	40.53		74.00	33.47	Н	-5.2
5907.900000		35.15	54.00	18.85	Н	-0.1
5907.900000	45.25		74.00	28.75	Н	-0.1
9000.200000		40.24	54.00	13.76	V	5.4
9000.200000	48.61	-	74.00	25.39	V	5.4
14040.700000		42.90	54.00	11.10	V	9.8
14040.700000	53.31		74.00	20.69	V	9.8

Middle Channel: 2440 MHz



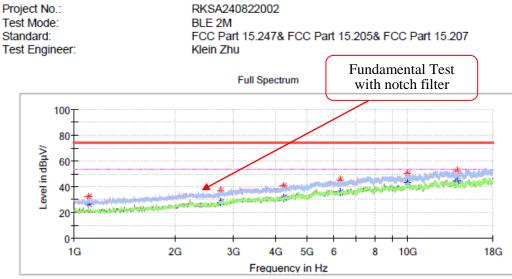
Critical_Freqs

Frequency	MaxPeak	Average (dD ::) (m)	Limit	Margin (dD)	Pol	Corr.
(MHz)	(dB µ V/m)	(dB µ V/m)	(dB µ V/m)	(dB)		(dB/m)
1102.000000		31.32	54.00	22.68	Н	-15.3
1102.000000	36.81		74.00	37.19	H	-15.3
2876.800000		27.82	54.00	26.18	V	-8.9
2876.800000	37.23		74.00	36.77	V	-8.9
4371.100000		31.87	54.00	22.13	Н	-4.7
4371.100000	41.97		74.00	32.03	Н	-4.7
6475.700000		35.63	54.00	18.37	V	0.5
6475.700000	46.17		74.00	27.83	V	0.5
9935.200000		40.69	54.00	13.31	Н	6.9
9935.200000	50.78		74.00	23.22	Н	6.9
13381.100000		42.44	54.00	11.56	V	9.6
13381.100000	52.88		74.00	21.12	V	9.6

Common Information

High Channel: 2480 MHz

Common Information



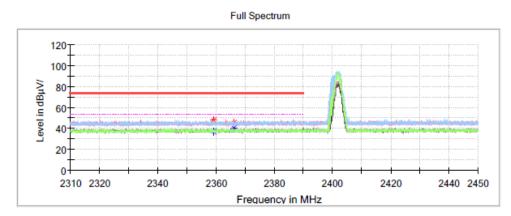
						_
Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB µ V/m)	(dB µ V/m)	(dB µ V/m)	(dB)		(dB/m)
1102.000000		26.59	54.00	27.41	V	-15.3
1102.000000	31.89		74.00	42.11	V	-15.3
2749.300000		27.68	54.00	26.32	H	-9.3
2749.300000	36.79		74.00	37.21	H	-9.3
4253.800000		31.43	54.00	22.57	V	-5.1
4253.800000	40.57		74.00	33.43	V	-5.1
6268.300000		35.46	54.00	18.54	V	0.3
6268.300000	45.21		74.00	28.79	V	0.3
10004.900000		43.37	54.00	10.63	Н	7.2
10004.900000	50.36		74.00	23.64	Н	7.2
14005.000000		44.48	54.00	9.52	Н	9.8
14005.000000	52.74		74.00	21.26	Н	9.8

RESTRICTED BANDS EMISSION:

Left Side

Common Information

Project No.:	RKSA240822002
Test Mode:	BLE 2M
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.207
Test Engineer:	Klein Zhu



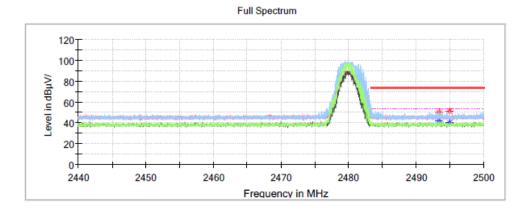
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2359.238000	47.77		74.00	26.23	Н	-0.7
2359.238000		37.27	54.00	16.73	Н	-0.7
2366.182000	45.56		74.00	28.44	V	-0.7
2366.182000		40.37	54.00	13.63	V	-0.7

Right Side

Common Information

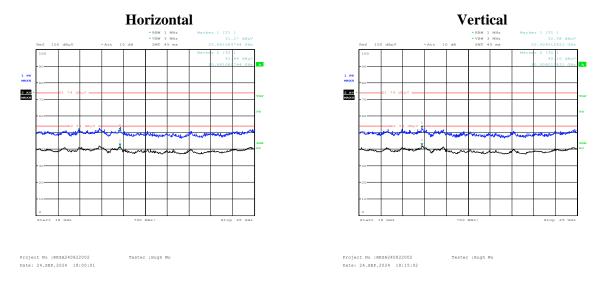
Project No.: Test Mode: Standard: Test Engineer:

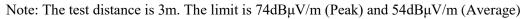
RKSA240822002 BLE 2M FCC Part 15.247& FCC Part 15.205& FCC Part 15.207 Klein Zhu



Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2493.430000		42.15	54.00	11.85	Η	-0.2
2493.430000	50.28		74.00	23.72	Н	-0.2
2494.924000		40.37	54.00	13.63	Н	-0.2
2494.924000	51.25		74.00	22.75	Н	-0.2

18 GHz - 25 G (High channel was worst):

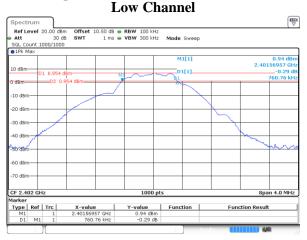




6 dB EMISSION BANDWIDTH

Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE (1 Mbps)	Low	2402	0.761	≥0.5
	Middle	2440	0.845	≥0.5
	High	2480	1.009	≥0.5
BLE (2 Mbps)	Low	2402	1.129	≥0.5
	Middle	2440	0.973	≥0.5
	High	2480	1.257	≥0.5

BLE (1 Mbps)



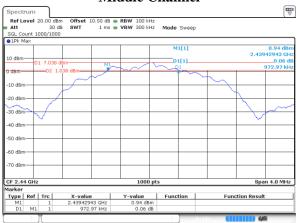
ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:28:13

High Channel Spectrum RefLevel 20.00 dBm Att 30 dB Offset 10.50 dB
 RBW 100 kHz
 SWT 1 ms
 VBW 300 kHz
 Mode Sweep SGL Count 1000/1000 M1[1] 0.50 dBr 2.47932132 GH 10 dBri D1[1] 0.50 d 1.00901 M dBr dB -10 dBm -20 dBr -30 dBr 40 dBr 50 dBm -60 dBm--70 dBr CF 2.48 G Marker Type Ref Trc M1 1 V-value Function X-value 2.47932132 GHz 1.00901 MHz Function Result 0.50 dB D1 M1

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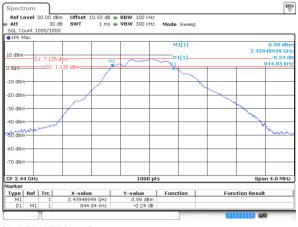
Date: 13.SEP.2024 13:36:55

Middle Channel



ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:44:53

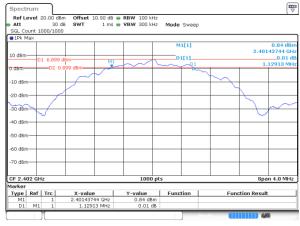
Middle Channel



ProjectNo.: RKSA240822002 Tester: Neil Zhou Date: 13.SEP.2024 13:32:12

BLE (2 Mbps)

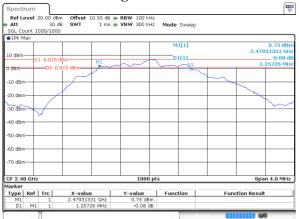
Low Channel



ProjectNo.: RKSA240822002 Tester: Neil Zhou

Date: 13.SEP.2024 13:42:24

High Channel



ProjectNo.: RKSA240822002 Tester: Neil Zhou Date: 13.SEP.2024 13:47:38

MAXIMUM CONDUCTED OUTPUT POWER

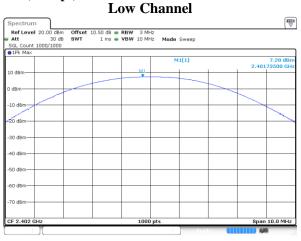
Test Result: Compliant.

EUT operation mode: Transmitting

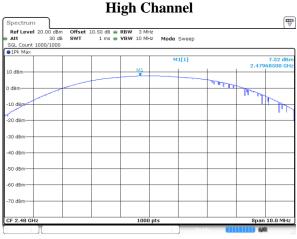
Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (1 Mbps)	Low	2402	7.28	30	Pass
	Middle	2440	7.52	30	Pass
	High	2480	7.52	30	Pass
BLE (2 Mbps)	Low	2402	7.29	30	Pass
	Middle	2440	7.52	30	Pass
	High	2480	7.53	30	Pass

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BLE (1 Mbps)

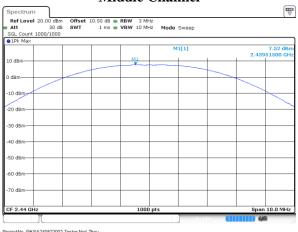


ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:30:52



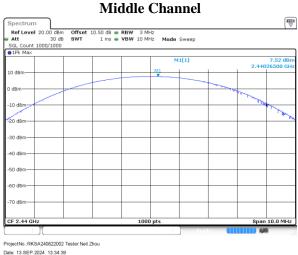
ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:41:10

Middle Channel



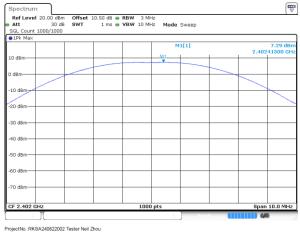
ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:46:25

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Date: 13.SEP.2024 13:34:39 BLE (2 Mbps)

Low Channel



Date: 13.SEP.2024 13:43:53

Date: 13.SEP.2024 13:43:53

High Channel



ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:49:18

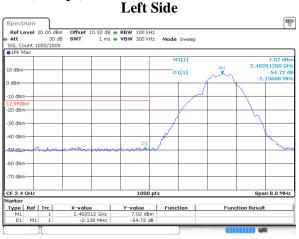
BAND EDGE

Test Result: Compliant.

EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
BLE (1 Mbps)	Low	2402	54.72	20
	High	2480	54.81	20
BLE (2 Mbps)	Low	2402	31.88	20
	High	2480	54.41	20

BLE (1 Mbps)



ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:28:02

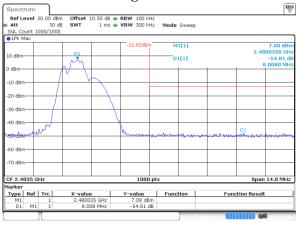
BLE (2 Mbps)



ProjectNo.:RKSA240822002 Tester:Neil Zhou

Date: 13.SEP.2024 13:42:12

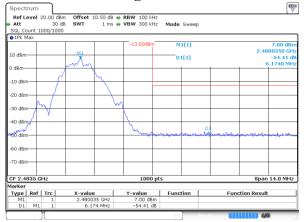
Right Side



ProjectNo.:RKSA240822002 Tester:Neil Zhou

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Right Side



ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:47:25

POWER SPECTRAL DENSITY

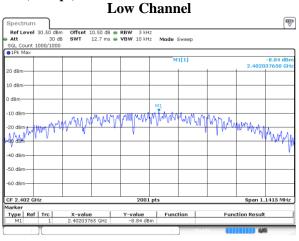
Test Result: Compliant.

EUT operation mode: Transmitting

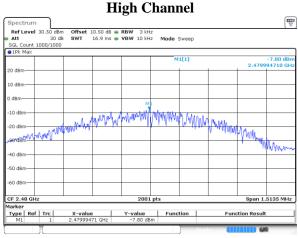
Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE (1 Mbps)	Low	2402	-8.84	≤ 8
	Middle	2440	-8.20	≤8
	High	2480	-7.80	≤8
BLE (2 Mbps)	Low	2402	-10.86	≤8
	Middle	2440	-9.89	≤8
	High	2480	-11.02	≤8

Report No.: RKSA240822002-00A

BLE (1 Mbps)



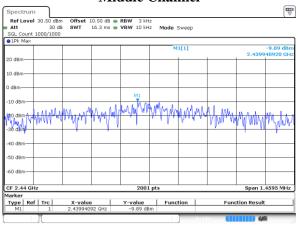
ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:31:17



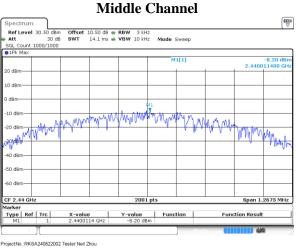
ProjectNo.:RKSA240822002 Tester:Neil Zhou

Date: 13.SEP.2024 13:41:41

Middle Channel



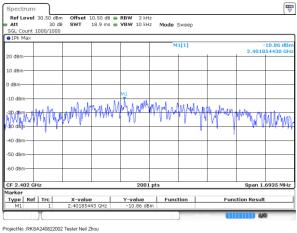
ProjectNo.: RKSA240822002 Tester: Neil Zhou Date: 13.SEP.2024 13:46:55



Date: 13.SEP.2024 13:35:06

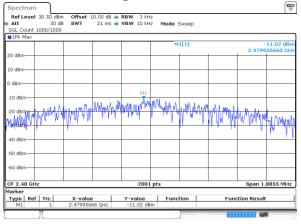
BLE (2 Mbps)

Low Channel



Date: 13.SEP.2024 13:44:25

High Channel



ProjectNo.:RKSA240822002 Tester:Neil Zhou Date: 13.SEP.2024 13:49:54

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with " \star ".

2. The test data was only valid for the test sample(s).

3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95.45% confidence interval.

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

FCC Part 15.247