

FCC Test Report

Report No.: RWAZ202300129B

Applicant: Shenzhen Youmi Intelligent Technology Co., Ltd.

Address: 406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan

District, Shenzhen City, China

Product Name: Smart phone

Product Model: PG2311GBA

Multiple Models: N/A

Trade Mark: UMIDIGI

FCC ID: 2ATZ4-G6

Standards: FCC CFR Title 47 Part 15C (§15.247)

Test Date: 2023/12/22~2024/01/26

Test Result: Complied

Report Date: 2024/02/27

Reviewed by:

Approved by:

Abel Chen

Project Engineer

Jacob Kong

Jacob Gong

Manager

Prepared by:

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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Revision History

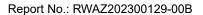
Version No.	Issued Date	Description
00	27, Feb,2024	Original

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1 General Information

1.1 Client Information

Applicant:	Shenzhen Youmi Intelligent Technology Co., Ltd.
Address:	406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, China
Manufacturer:	Shenzhen Youmi Intelligent Technology Co., Ltd.
Address:	406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, China

1.2 Product Description of EUT

The EUT is Smart phone that contains classic Bluetooth (BDR/EDR), BLE, 2.4G/5G WLAN, NFC and GSM/GPRS/EGPRS/WCDMA/LTE radios, this report covers the full testing of the BLE radio.

	vir vere radios, this report covers the rail testing of the BEE radio.
Sample Serial Number	2X-5 for CE&RE test, 2X-1 for RF test conducted test
	(assigned by WATC)
Sample Received Date	2023-12-05
Sample Status	Good Condition
Frequency Range	2402MHz - 2480MHz(BLE 1M)
	2404MHz - 2478MHz(BLE 2M)
Maximum Conducted	-4.25dBm
Peak Output Power	-4.25dDIII
Modulation Technology	GFSK
Spatial Streams	1TX, 1RX
Antenna Gain [#]	1.1dBi
Power Supply	DC 3.87V from battery or DC 5V from USB Port
Adapter Information	Adapter 1
	Model: HF-0502000U
	Input: AC100-240V, 50/60Hz, 0.3A
	Output: DC 5.0V, 2A
	Adapter 2
	Model: HJ-0502000W2-US
	Input: AC100-240V, 50/60Hz, 0.3A
	Output: DC 5V, 2A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement:

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, 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.

Device Antenna information:

The BLE antenna is an internal antenna which cannot replace by end-user, please see product internal photos for details.

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1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DSS, FCC ID: 2ATZ4-G6

FCC Part 15, Subpart C, Equipment Class: DXX, FCC ID: 2ATZ4-G6

FCC Part 15, Subpart E, Equipment Class: NII, FCC ID: 2ATZ4-G6

FCC Part 22, Subpart H/Part 24, Subpart E/Part 27, Equipment Class: PCE, FCC ID: 2ATZ4-G6

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conduc	ted Emissions	±3.14dB
	Below 30MHz	±2.78dB
Emissions, Radiated	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

1.6 Laboratory Location

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2020

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2 Description of Measurement

2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	19	2440	38	2478
1	2404	20	2442	39	2480
				/	/
18	2438			1	1

For BLE 2M, channel 0 and channel 39 was disabled.

According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402(for BLE 1M)	19	2440	39	2480(for BLE 1M)
1	2404(for BLE 2M)	19	2440	38	2478(for BLE 2M)

Test Mode:						
Transmitting mode:	Keep the EUT in	Keep the EUT in continuous transmitting with modulation				
Exercise software [#] :	Engineering mod	del				
		Powel Level Setting [#]				
Mode	Data rate	Low Channel	Middle Channel	High Channel		
BLE 1M	1Mbps	9	9	9		
BLE 2M	2Mbps	9	9	9		
The exercise software and the maximum power setting that provided by manufacturer.						

Worst-Case Configuration:

For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report

For the adapter 1 and adapter 2, the adapter 1 was the worse one of radiated spurious emission below 1GHz in the DSS report. So only adapter 1 was chosen for the full test in this report.

For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

2.2 Test Auxiliary Equipment

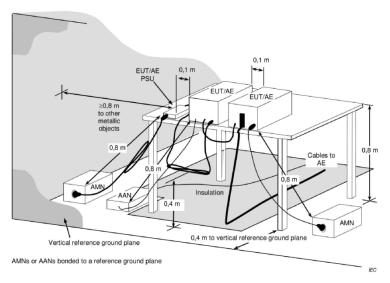
Manufacturer	Description	Model	Serial Number
/	/	/	/

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2.3 Test Setup

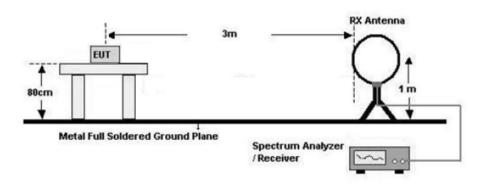
1) Conducted emission measurement:

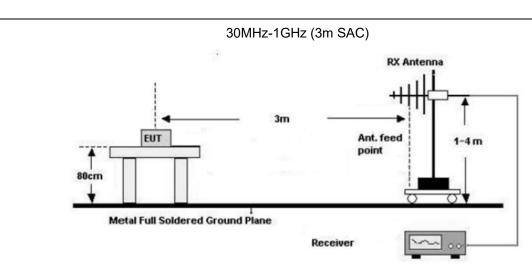


Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

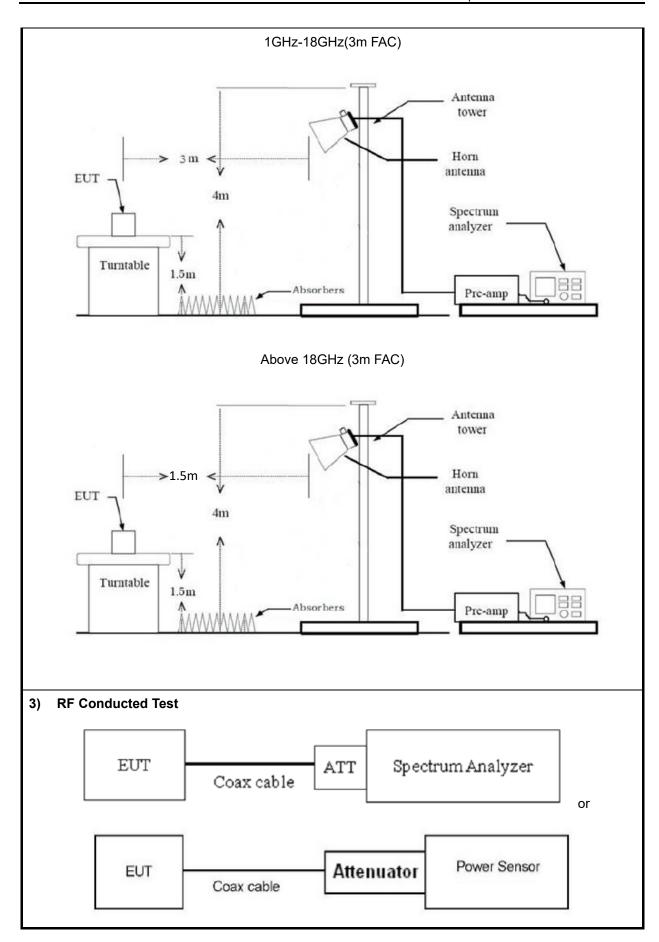
2) Radiated emission measurement:

Below 30MHz (3m SAC)













2.4 Test Procedure

Conducted emission:

- 1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
- Both sides of A.C. line are checked for maximum conducted interference. In order to find the
 maximum emission, the relative positions of equipment and all of the interface cables must be
 changed according to ANSI C63.10 on conducted measurement.
- 3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

- 1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).
- 2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)

b) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

c) For above 1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5m (above 18GHz).
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
- 4. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or

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Spectrum analyzer) through Attenuator and RF cable.

- 2. The cable assembly insertion loss of 11dB (including 10 dB Attenuator and 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
- 3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.5 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2020 Section 11.9.1.1
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12.1
Duty Cycle	ANSI C63.10-2020 Section 11.6

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2.6 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2023/7/3	2024/7/2
R&S	LISN	ENV216	101748	2023/8/1	2024/7/30
N/A	Coaxial Cable	NO.12	N/A	2023/7/3	2024/7/2
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
	T	Radiated Emissio	n Test		<u> </u>
R&S	EMI test receiver	ESR3	102758	2023/7/3	2024/7/2
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2023/7/3	2024/7/2
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2023/7/12	2024/7/11
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20
COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
ETS	Passive Loop Antenna	6512	29604	2023/7/7	2024/7/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2024/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2024/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2024/7/9
Ducommun technologies	Horn Antenna	ARH-2823-02	1007726-03	2023/7/10	2024/7/9
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2023/9/15	2024/9/14
N/A	Coaxial Cable	N/A	NO.9	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.10	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.11	2023/8/8	2024/8/7
Audix	Test Software	E3	191218 V9	/	/
		RF Conducted	Test		
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
MARCONI	10dB Attenuator	1692595	2942	2023/10/25	2024/10/24
ANRITSU	USB Power Sensor	MA24418A	12620	2023/7/12	2024/7/11

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.



3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	§15.247 (a)(2) 6 dB Emission Bandwidth	
-	99% Occupied Bandwidth	Compliance
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	§15.205, §15.209, §15.247(d) Radiated emission	
-	Duty Cycle	Compliance





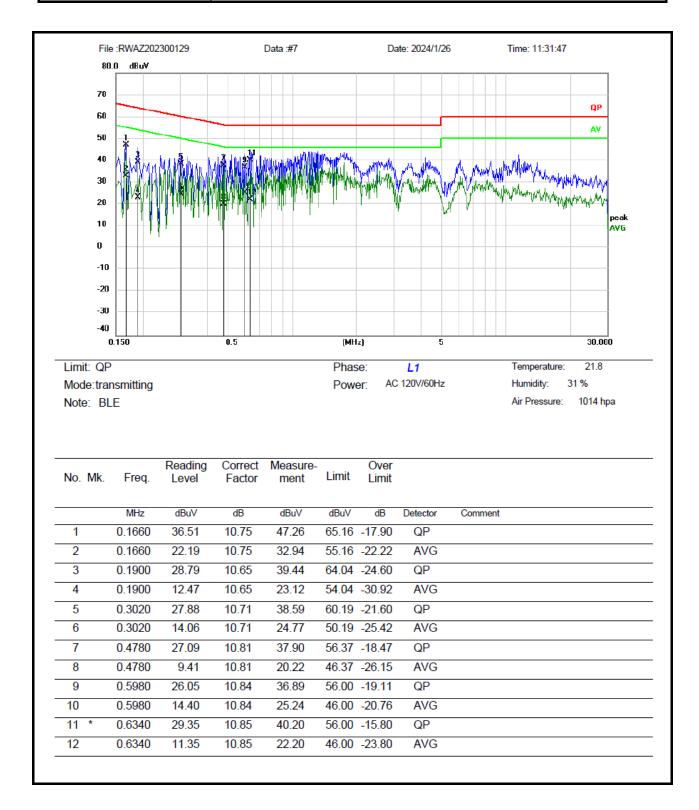
3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	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.
	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
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	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)).

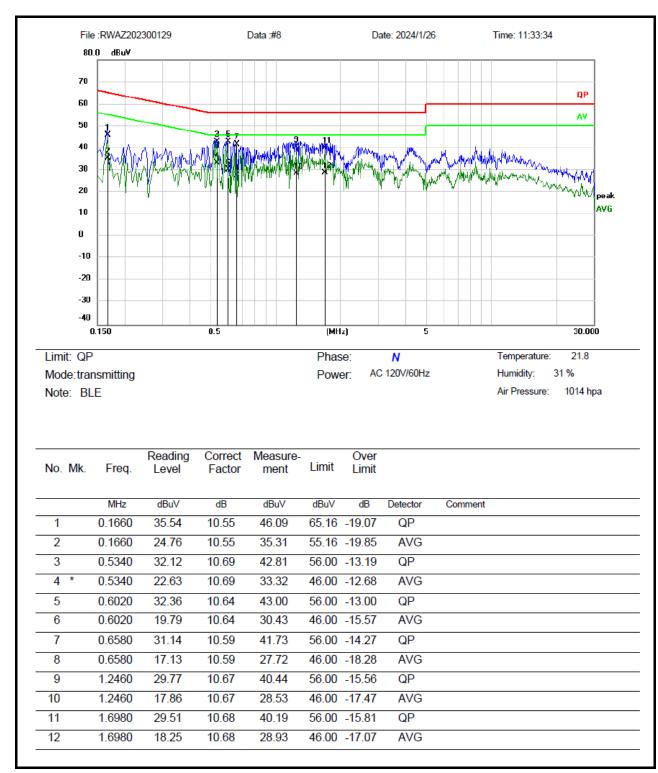


3.3 AC Line Conducted Emissions Test Data

Test Date:	2024-01-26	Test By:	Lirou Li
Environment condition:	Temperature: 21.8°C; Relative	Humidity:31%; ATM Pr	essure: 101.4kPa







Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over = Measurement - Limit





3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2024-01-25	Test By:	Bard Huang
Environment condition:	Temperature: 22.1℃; Relative	Humidity:27%; ATM Pro	essure: 102.3kPa

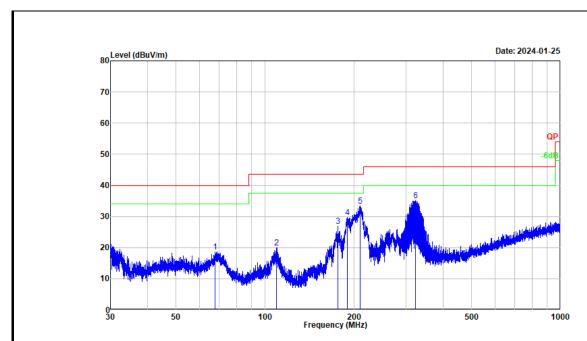
For radiated emissions below 30MHz, there were no emissions found within 20dB of limit.

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30MHz-1GHz:

Test Date:	2024-01-25	Test By:	Bard Huang
Environment condition:	Temperature: 22.1℃; Relative	Humidity:27%; ATM Pr	essure: 102.3kPa



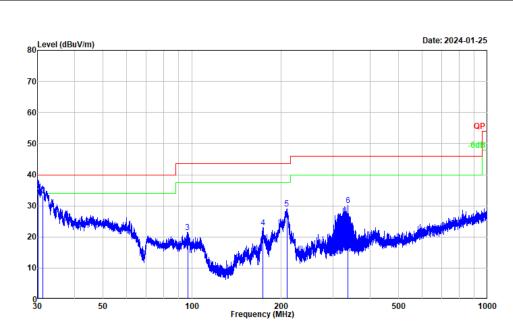
Project No. : RWAZ202300129 Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment : 22.1℃/27%R.H./102.3kPa Tested by : Bard Huang Polarization : horizontal Remark : BLE

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	67.645	33.98	-15.28	18.70	40.00	-21.30	Peak
2	109.604	34.14	-14.19	19.95	43.50	-23.55	Peak
3	176.346	42.84	-16.00	26.84	43.50	-16.66	Peak
4	189.822	44.26	-14.66	29.60	43.50	-13.90	Peak
5	209.497	47.25	-13.91	33.34	43.50	-10.16	Peak
6	323.462	45.89	-10.69	35.20	46.00	-10.80	Peak
_							

Remarks: Factor = Antenna factor + Cable loss - Preamp gain





Project No. : RWAZ202300129 Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.1℃/27%R.H./102.3kPa
Tested by : Bard Huang
Polarization : vertical

Remark : BLE

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	30.092	50.30	-15.03	35.27	40.00	-4.73	QP	
2	31.234	48.60	-15.32	33.28	40.00	-6.72	QP	
3	96.648	36.07	-14.63	21.44	43.50	-22.06	Peak	
4	173.814	39.18	-16.15	23.03	43.50	-20.47	Peak	
5	209.313	42.90	-13.91	28.99	43.50	-14.51	Peak	
6	337.068	40.23	-10.16	30.07	46.00	-15.93	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Remark:

Result= Reading + Factor

Factor = Antenna factor + Cable loss – Amplifier gain

Over Limit = Result - Limit



Above 1GHz:

Test Date:	2024-01-24	Test By:	Luke Li
Environment condition:	Temperature: 22.4°C; Relative	Humidity:28%; ATM Pro	essure: 102.0kPa

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark			
BLE 1M										
Low Channel										
2390	51.47	Horizontal	8.25	59.72	74	-14.28	Peak			
2390	41.84	Horizontal	8.25	50.09	54	-3.91	Average			
2390	49.16	Vertical	8.25	57.41	74	-16.59	Peak			
2390	42.13	Vertical	8.25	50.38	54	-3.62	Average			
4804	51.65	Horizontal	0.21	51.86	74	-22.14	Peak			
4804	44.46	Horizontal	0.21	44.67	54	-9.33	Average			
4804	49.02	Vertical	0.21	49.23	74	-24.77	Peak			
4804	42.11	Vertical	0.21	42.32	54	-11.68	Average			
7206	48.97	Horizontal	3.4	52.37	74	-21.63	Peak			
7206	36.63	Horizontal	3.4	40.03	54	-13.97	Average			
7206	48.56	Vertical	3.4	51.96	74	-22.04	Peak			
7206	37.29	Vertical	3.4	40.69	54	-13.31	Average			
			Middle C	hannel						
4880	47.82	Horizontal	0.44	48.26	74	-25.74	Peak			
4880	40.82	Horizontal	0.44	41.26	54	-12.74	Average			
4880	47.95	Vertical	0.44	48.39	74	-25.61	Peak			
4880	39.64	Vertical	0.44	40.08	54	-13.92	Average			
7320	48.93	Horizontal	3.04	51.97	74	-22.03	Peak			
7320	35.52	Horizontal	3.04	38.56	54	-15.44	Average			
7320	49.89	Vertical	3.04	52.93	74	-21.07	Peak			
7320	35.83	Vertical	3.04	38.87	54	-15.13	Average			
			High Ch	annel						
2483.5	54.01	Horizontal	8.25	62.26	74	-11.74	Peak			
2483.5	42.63	Horizontal	8.25	50.88	54	-3.12	Average			
2483.5	53.49	Vertical	8.25	61.74	74	-12.26	Peak			
2483.5	42.00	Vertical	8.25	50.25	54	-3.75	Average			
4960	46.62	Horizontal	0.93	47.55	74	-26.45	Peak			
4960	40.42	Horizontal	0.93	41.35	54	-12.65	Average			
4960	47.51	Vertical	0.93	48.44	74	-25.56	Peak			



4960 39.54 Vertical 0.93 39.47 54 -14.53 Average 7440 48.73 Horizontal 3.11 51.84 74 -22.16 Peak 7440 49.04 Vertical 3.11 52.15 74 -21.85 Peak TVA40 49.04 Vertical 3.11 38.93 54 -15.07 Average BLE 2M Low Channel 2390 54.1 Horizontal 8.25 62.35 74 -11.65 Peak 2390 42.31 Horizontal 8.25 50.56 54 -3.44 Average 2390 41.77 Vertical 8.25 50.02 54 -3.44 Average 4808 50.92 Horizontal 0.21 51.13 74 -22.87 Peak 4808 46.38 Vertical 0.21 42.65 54 -11.35 Average 7212 47.46 Horizonta			1					1 _
7440 36.58 Horizontal 3.11 39.69 54 -14.31 Average 7440 49.04 Vertical 3.11 52.15 74 -21.85 Peak 7440 35.82 Vertical 3.11 38.93 54 -15.07 Average BLE 2M Low Channel 2390 54.1 Horizontal 8.25 62.35 74 -11.65 Peak 2390 54.21 Horizontal 8.25 50.56 54 -3.44 Average 2390 52.82 Vertical 8.25 50.02 54 -3.98 Average 4808 50.92 Horizontal 0.21 51.13 74 -22.87 Peak 4808 42.44 Horizontal 0.21 42.65 54 -11.35 Average 4808 46.38 Vertical 0.21 46.59 74 -27.41 Peak 4808 38.18 Vertical 3.4 <td>4960</td> <td>38.54</td> <td>Vertical</td> <td>0.93</td> <td>39.47</td> <td>54</td> <td>-14.53</td> <td>Average</td>	4960	38.54	Vertical	0.93	39.47	54	-14.53	Average
7440 49.04 Vertical 3.11 52.15 74 -21.85 Peak 7440 35.82 Vertical 3.11 38.93 54 -15.07 Average BLE 2M Low Channel 2390 54.1 Horizontal 8.25 62.35 74 -11.65 Peak 2390 42.31 Horizontal 8.25 50.56 54 -3.44 Average 2390 52.82 Vertical 8.25 50.02 54 -3.98 Average 4808 50.92 Horizontal 0.21 51.13 74 -22.87 Peak 4808 42.44 Horizontal 0.21 42.65 54 -11.36 Average 4808 38.18 Vertical 0.21 46.59 74 -27.41 Peak 4808 38.18 Vertical 0.21 38.39 54 -15.61 Average 7212 47.46 Horizontal 3.4 <td>7440</td> <td>48.73</td> <td>Horizontal</td> <td>3.11</td> <td>51.84</td> <td>74</td> <td>-22.16</td> <td>Peak</td>	7440	48.73	Horizontal	3.11	51.84	74	-22.16	Peak
New York State	7440	36.58	Horizontal	3.11	39.69	54	-14.31	Average
BILE 2M	7440	49.04	Vertical	3.11	52.15	74	-21.85	Peak
Low Channel	7440	35.82	Vertical	3.11	38.93	54	-15.07	Average
2390 54.1 Horizontal 8.25 62.35 74 -11.65 Peak 2390 42.31 Horizontal 8.25 50.56 54 -3.44 Average 2390 52.82 Vertical 8.25 61.07 74 -12.93 Peak 2390 41.77 Vertical 8.25 50.02 54 -3.98 Average 4808 50.92 Horizontal 0.21 51.13 74 -22.87 Peak 4808 42.44 Horizontal 0.21 42.65 54 -11.35 Average 4808 46.38 Vertical 0.21 46.59 74 -27.41 Peak 4808 38.18 Vertical 0.21 38.39 54 -15.61 Average 7212 47.46 Horizontal 3.4 50.86 74 -23.14 Peak 7212 35.55 Horizontal 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 52.26 74 -21.74 Peak 7212 35.38 Vertical 3.4 38.78 54 -15.22 Average Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 49.57 74 -24.43 Peak 4880 49.13 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 37.68 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 38.04 54 -15.96 Average 7320 49.18 Vertical 3.04 38.04 54 -15.96 Average 7320 49.18 Vertical 3.04 38.04 54 -15.96 Average 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average 7320 49.18 Vertical 3.04 38.04 54 -15.96 Average 7320 49.18 Vertical 3.04 38.04 54 -15.96 Average 7320 49.18 Vertical 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 35.02 74 -21.78 Peak 7320 35.00 Vertical 3.04 35.02 74 -21.78 Peak 7320 36.08 Horizontal 8.25 60.28 74 -13.72 Peak 7320 36.08 Horizontal 8.25 60.28 74 -13.72 Peak 7320 49.18 Vertical 3.04 30.04 51.53 74 -26.77 Peak 74.96 74.96 74.96 74.96				BLE 2	2M			
2390 42.31 Horizontal 8.25 50.56 54 -3.44 Average 2390 52.82 Vertical 8.25 61.07 74 -12.93 Peak 2390 41.77 Vertical 8.25 50.02 54 -3.98 Average 4808 50.92 Horizontal 0.21 51.13 74 -22.87 Peak 4808 42.44 Horizontal 0.21 42.65 54 -11.35 Average 4808 46.38 Vertical 0.21 46.59 74 -27.41 Peak 4808 38.18 Vertical 0.21 38.39 54 -15.61 Average 7212 47.46 Horizontal 3.4 50.86 74 -23.14 Peak 7212 48.86 Vertical 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 38.78 54 -15.22 Average		T		Low Ch	annel	·		
2390 52.82 Vertical 8.25 61.07 74 -12.93 Peak 2390 41.77 Vertical 8.25 50.02 54 -3.98 Average 4808 50.92 Horizontal 0.21 51.13 74 -22.87 Peak 4808 42.44 Horizontal 0.21 42.65 54 -11.35 Average 4808 46.38 Vertical 0.21 46.59 74 -27.41 Peak 4808 38.18 Vertical 0.21 38.39 54 -15.61 Average 7212 47.46 Horizontal 3.4 50.86 74 -23.14 Peak 7212 48.86 Vertical 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 38.78 54 -15.22 Average 7212 48.86 Vertical 3.4 48.26 74 -25.74 Peak <	2390	54.1	Horizontal	8.25	62.35	74	-11.65	Peak
2390	2390	42.31	Horizontal	8.25	50.56	54	-3.44	Average
Horizontal 0.21 51.13 74 -22.87 Peak	2390	52.82	Vertical	8.25	61.07	74	-12.93	Peak
4808 42.44 Horizontal 0.21 42.65 54 -11.35 Average 4808 46.38 Vertical 0.21 46.59 74 -27.41 Peak 4808 38.18 Vertical 0.21 38.39 54 -15.61 Average 7212 47.46 Horizontal 3.4 50.86 74 -23.14 Peak 7212 35.55 Horizontal 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 52.26 74 -21.74 Peak 7212 35.38 Vertical 3.4 38.78 54 -15.22 Average Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 36.12 Vertical 0.44 36.56 54	2390	41.77	Vertical	8.25	50.02	54	-3.98	Average
4808 46.38 Vertical 0.21 46.59 74 -27.41 Peak 4808 38.18 Vertical 0.21 38.39 54 -15.61 Average 7212 47.46 Horizontal 3.4 50.86 74 -23.14 Peak 7212 35.55 Horizontal 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 52.26 74 -21.74 Peak Middle Channel Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 48.26 74 -25.74 Peak 4880 36.12 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3	4808	50.92	Horizontal	0.21	51.13	74	-22.87	Peak
4808 38.18 Vertical 0.21 38.39 54 -15.61 Average 7212 47.46 Horizontal 3.4 50.86 74 -23.14 Peak 7212 35.55 Horizontal 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 52.26 74 -21.74 Peak 7212 35.38 Vertical 3.4 38.78 54 -15.22 Average Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 36.12 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 3.04 51.53 74 -22.47 Peak 7320 48.49 Horizontal 3.04 39.22 54 <td>4808</td> <td>42.44</td> <td>Horizontal</td> <td>0.21</td> <td>42.65</td> <td>54</td> <td>-11.35</td> <td>Average</td>	4808	42.44	Horizontal	0.21	42.65	54	-11.35	Average
7212 47.46 Horizontal 3.4 50.86 74 -23.14 Peak 7212 35.55 Horizontal 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 52.26 74 -21.74 Peak Middle Channel Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 36.12 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical <td< td=""><td>4808</td><td>46.38</td><td>Vertical</td><td>0.21</td><td>46.59</td><td>74</td><td>-27.41</td><td>Peak</td></td<>	4808	46.38	Vertical	0.21	46.59	74	-27.41	Peak
7212 35.55 Horizontal 3.4 38.95 54 -15.05 Average 7212 48.86 Vertical 3.4 52.26 74 -21.74 Peak 7212 35.38 Vertical 3.4 38.78 54 -15.22 Average Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 36.12 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 35.00 Vertical 3.04 38.04 54	4808	38.18	Vertical	0.21	38.39	54	-15.61	Average
7212 48.86 Vertical 3.4 52.26 74 -21.74 Peak 7212 35.38 Vertical 3.4 38.78 54 -15.22 Average Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 49.13 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 39.22 54 -14.78 Average 7320 36.18 Horizontal 3.04 32.22 74 -21.78 Peak 7320 49.18 Vertical 3.04 38.04 54 -15.96 Average 7320 35.00 Vertical 8.25 62.42 74	7212	47.46	Horizontal	3.4	50.86	74	-23.14	Peak
7212 35.38 Vertical 3.4 38.78 54 -15.22 Average Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 49.18 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak	7212	35.55	Horizontal	3.4	38.95	54	-15.05	Average
Middle Channel 4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 49.13 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal	7212	48.86	Vertical	3.4	52.26	74	-21.74	Peak
4880 47.82 Horizontal 0.44 48.26 74 -25.74 Peak 4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 49.13 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54	7212	35.38	Vertical	3.4	38.78	54	-15.22	Average
4880 37.24 Horizontal 0.44 37.68 54 -16.32 Average 4880 49.13 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 52.03 Vertical 8.25 50.33 54 -3.67 Average 2483.5 42.68 Vertical 8.25 50.93 54				Middle C	hannel			
4880 49.13 Vertical 0.44 49.57 74 -24.43 Peak 4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 52.03 Vertical 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 50.93 54 -3.07 Average 2483.5 42.68 Vertical 8.25 50.93 54	4880	47.82	Horizontal	0.44	48.26	74	-25.74	Peak
4880 36.12 Vertical 0.44 36.56 54 -17.44 Average 7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 37.16 54	4880	37.24	Horizontal	0.44	37.68	54	-16.32	Average
7320 48.49 Horizontal 3.04 51.53 74 -22.47 Peak 7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 49.09 Vertical 0.93 50.02 74	4880	49.13	Vertical	0.44	49.57	74	-24.43	Peak
7320 36.18 Horizontal 3.04 39.22 54 -14.78 Average 7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74	4880	36.12	Vertical	0.44	36.56	54	-17.44	Average
7320 49.18 Vertical 3.04 52.22 74 -21.78 Peak 7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54	7320	48.49	Horizontal	3.04	51.53	74	-22.47	Peak
7320 35.00 Vertical 3.04 38.04 54 -15.96 Average High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	7320	36.18	Horizontal	3.04	39.22	54	-14.78	Average
High Channel 2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	7320	49.18	Vertical	3.04	52.22	74	-21.78	Peak
2483.5 54.17 Horizontal 8.25 62.42 74 -11.58 Peak 2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	7320	35.00	Vertical	3.04	38.04	54	-15.96	Average
2483.5 42.08 Horizontal 8.25 50.33 54 -3.67 Average 2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average			<u> </u>	High Ch	annel			
2483.5 52.03 Vertical 8.25 60.28 74 -13.72 Peak 2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	2483.5	54.17	Horizontal	8.25	62.42	74	-11.58	Peak
2483.5 42.68 Vertical 8.25 50.93 54 -3.07 Average 4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	2483.5	42.08	Horizontal	8.25	50.33	54	-3.67	Average
4956 46.3 Horizontal 0.93 47.23 74 -26.77 Peak 4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	2483.5	52.03	Vertical	8.25	60.28	74	-13.72	Peak
4956 36.23 Horizontal 0.93 37.16 54 -16.84 Average 4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	2483.5	42.68	Vertical	8.25	50.93	54	-3.07	Average
4956 49.09 Vertical 0.93 50.02 74 -23.98 Peak 4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	4956	46.3	Horizontal	0.93	47.23	74	-26.77	Peak
4956 36.31 Vertical 0.93 37.24 54 -16.76 Average	4956	36.23	Horizontal	0.93	37.16	54	-16.84	Average
	4956	49.09	Vertical	0.93	50.02	74	-23.98	Peak
7434 48.14 Horizontal 3.11 51.25 74 -22.75 Peak	4956	36.31	Vertical	0.93	37.24	54	-16.76	Average
	7434	48.14	Horizontal	3.11	51.25	74	-22.75	Peak



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7434	36.25	Horizontal	3.11	39.36	54	-14.64	Average
7434	48.13	Vertical	3.11	51.24	74	-22.76	Peak
7434	36.26	Vertical	3.11	39.37	54	-14.63	Average

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

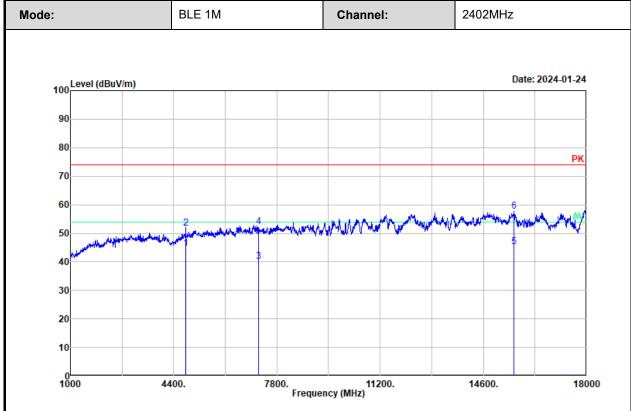
The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

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Test plot for example as below:



Project No. : RWAZ202300129 Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment : $22.4^{\circ}C/28\%R.H./102.0kPa$

Tested by : Luke Li Polarization : horizontal

Remark : BLE 1M Low channal

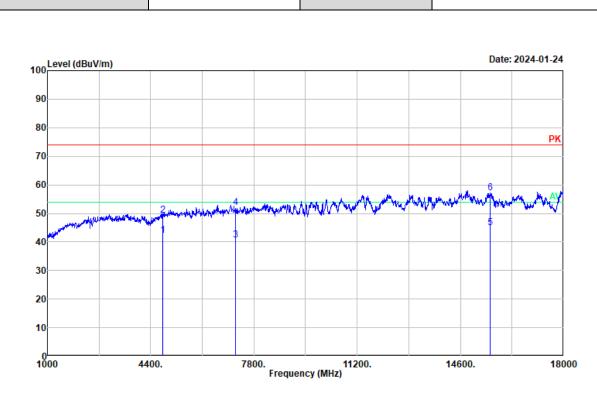
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
								_
1	4804.000	44.46	0.21	44.67	54.00	-9.33	Average	
2	4804.000	51.65	0.21	51.86	74.00	-22.14	Peak	
3	7206.000	36.63	3.40	40.03	54.00	-13.97	Average	
4	7206.000	48.97	3.40	52.37	74.00	-21.63	Peak	
5	15601.800	37.10	8.09	45.19	54.00	-8.81	Average	
6	15601.800	49.61	8.09	57.70	74.00	-16.30	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

2402MHz



Mode:



Channel:

Project No. : RWAZ202300129
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz

Environment : $22.4\,^{\circ}\text{C}/28\%\text{R.H.}/102.0\text{kPa}$

BLE 1M

Tested by : Luke Li Polarization : vertical

Remark : BLE 1M Low channal

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	4804.000	42.11	0.21	42.32	54.00	-11.68	Average
2	4804.000	49.02	0.21	49.23	74.00	-24.77	Peak
3	7206.000	37.29	3.40	40.69	54.00	-13.31	Average
4	7206.000	48.56	3.40	51.96	74.00	-22.04	Peak
5	15584.790	36.78	8.10	44.88	54.00	-9.12	Average
6	15584.790	48.97	8.10	57.07	74.00	-16.93	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain



3.5 RF Conducted Test Data

Test Date:	2023-12-22	Test By:	Ryan Zhang	
Environment condition:	Temperature: 24°C; Relative Humidity:34%; ATM Pressure:101.54kPa			

3.5.1 6 dB Emission Bandwidth and 99% Occupied Bandwidth

Test Mode	Channel	99% OBW[MHz]	6dB BW [MHz]	6dB BW Limit[MHz]	Verdict
	2402	1.037	0.672	0.5	Pass
BLE 1M	2440	1.037	0.669	0.5	Pass
	2480	1.040	0.672	0.5	Pass
	2404	2.086	1.170	0.5	Pass
BLE 2M	2440	2.080	1.176	0.5	Pass
	2478	2.080	1.176	0.5	Pass

3.5.2 Maximum Conducted Peak Output Power

Test Mode	Channel [MHz]	Conducted output power [dBm]	Limit [dBm]	Verdict
BLE 1M	2402	-6.74	30	Pass
	2440	-4.63	30	Pass
	2480	-4.41	30	Pass
BLE 2M	2404	-6.66	30	Pass
	2440	-4.71	30	Pass
	2478	-4.25	30	Pass

3.5.3 Power Spectral Density

Test Mode	Channel [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE 1M	2402	-23.86	8	Pass
	2440	-21.86	8	Pass
	2480	-21.42	8	Pass
BLE 2M	2404	-26.27	8	Pass
	2440	-23.89	8	Pass
	2478	-23.44	8	Pass

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3.5.4 100 kHz Bandwidth of Frequency Band Edge

Test Mode	Channel	Result	Limit	Verdict
BLE 1M	2402	Refer test plot	Refer test plot	Pass
	2480	Refer test plot	Refer test plot	Pass
BLE 2M	2404	Refer test plot	Refer test plot	Pass
	2478	Refer test plot	Refer test plot	Pass

3.5.5 Duty Cycle

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]	VBW Setting*
BLE 1M	2440	2.125	2.505	84.83	470.59	500
BLE 2M	2440	1.070	1.880	56.91	934.58	1000

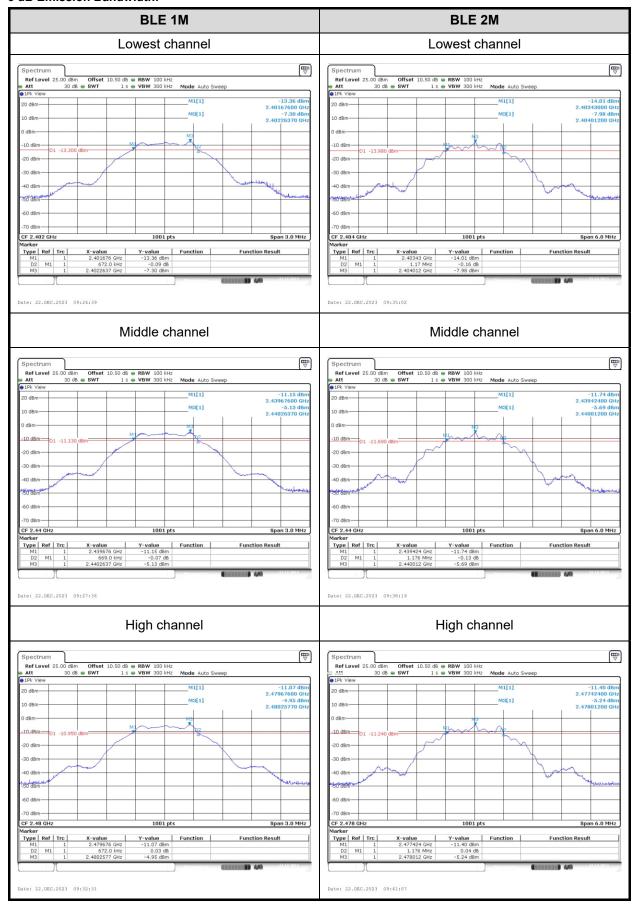
Note*: Radiated emission test with average value, the Spectrum analyzer VBW setting information.

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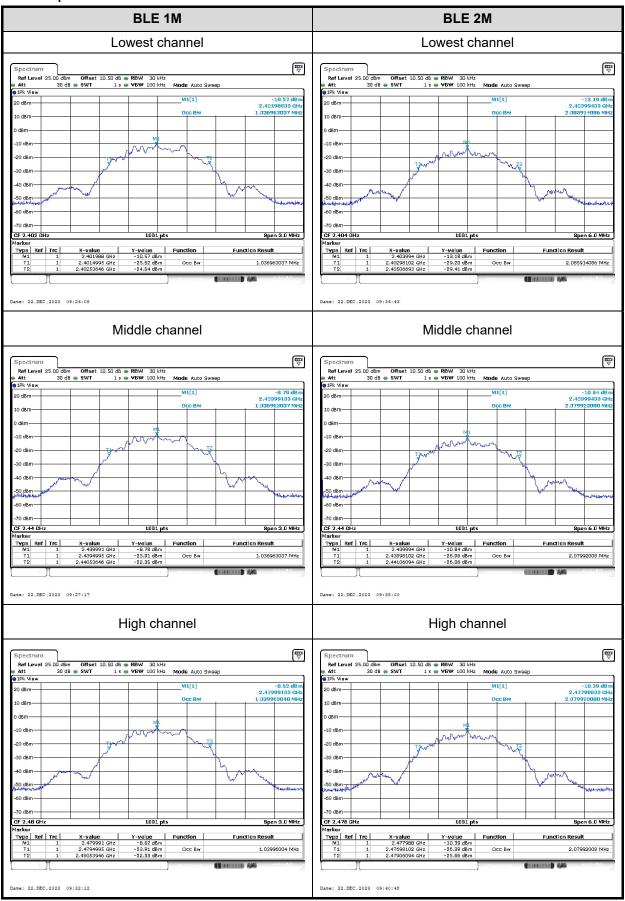
Test Plots:

6 dB Emission Bandwidth:



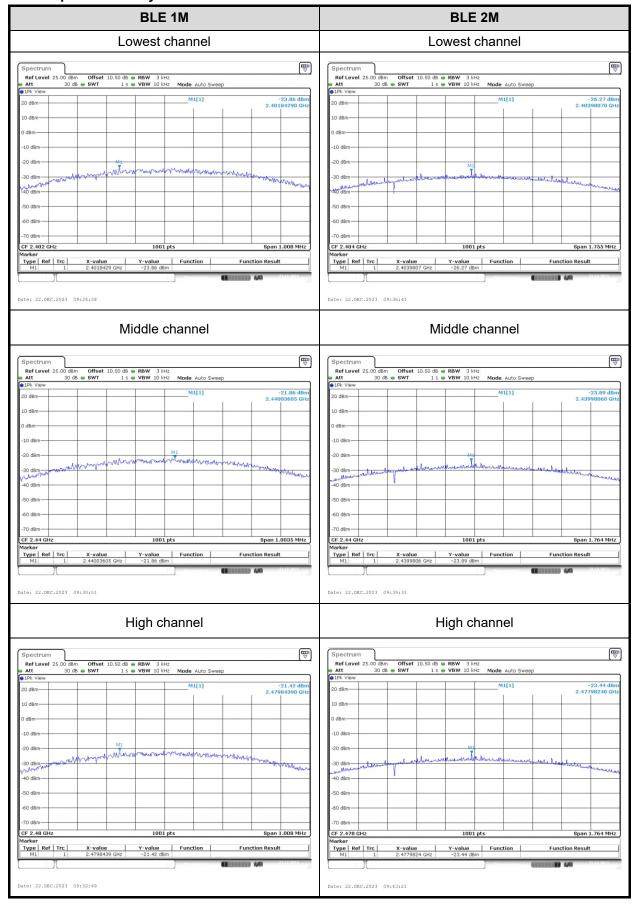


99% Occupied Bandwidth:



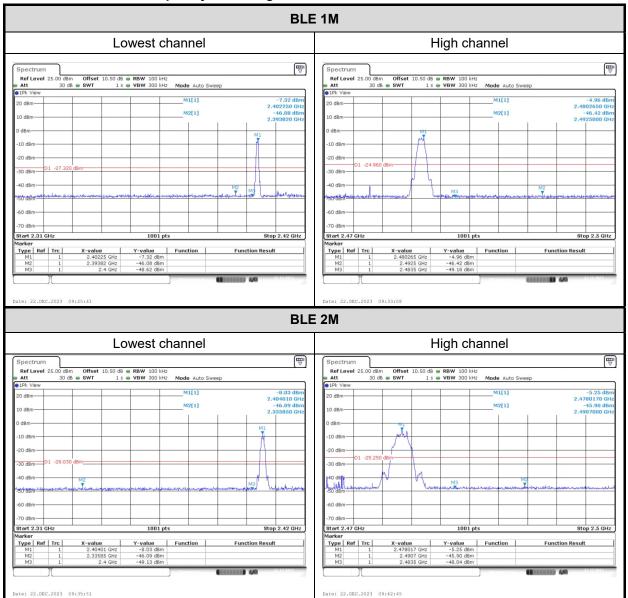


Power Spectral Density:



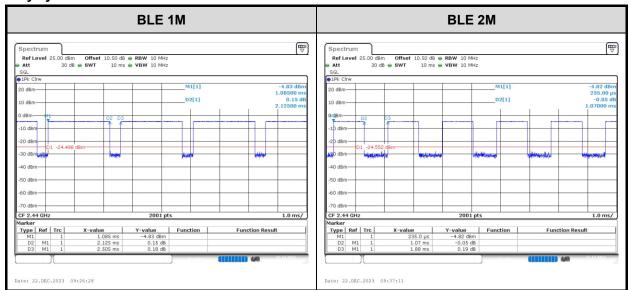


100kHz Bandwidth of Frequency Band Edge:





Duty cycle:





4 Test Setup Photo

Please refer to the attachment RWAZ202300129 Test Setup photo.



5 E.U.T Photo

Please refer to the attachment RWAZ202300129 External photo and RWAZ202300129 Internal photo.

---End of Report---