

TEST REPORT

Product Name : Westgate Resorts Owner Tablet
Brand Mark : Westgate Resorts
Model No. : T803
Report Number : BLA-EMC-202108-A11901
FCC ID : 2AXKI-T803
Date of Sample Receipt : 2021/8/30
Date of Test : 2021/9/3 to 2021/9/7
Date of Issue : 2021/9/8
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Prepared for:

ShenZhen WeiHejia Electronics Technology CO.,LTD
11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao
community, Gongming agency, Guangming new district, Shenzhen

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China

TEL: +86-755-23059481

Compiled by:

Jozu
BlueZhong

Approved by:

Review by:

Date:

2021/9/8



REPORT REVISE RECORD

Version No.	Date	Description
00	2021/9/8	Original

BlueAsia

TABLE OF CONTENTS

1	TEST SUMMARY.....	5
2	GENERAL INFORMATION.....	6
3	GENERAL DESCRIPTION OF E.U.T.....	6
4	TEST ENVIRONMENT.....	7
5	TEST MODE.....	7
6	MEASUREMENT UNCERTAINTY.....	7
7	DESCRIPTION OF SUPPORT UNIT.....	8
8	LABORATORY LOCATION.....	8
9	TEST INSTRUMENTS LIST.....	9
10	CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	12
10.1	LIMITS.....	12
10.2	BLOCK DIAGRAM OF TEST SETUP.....	12
10.3	PROCEDURE.....	12
10.4	TEST DATA.....	14
11	CONDUCTED BAND EDGES MEASUREMENT.....	16
11.1	LIMITS.....	16
11.2	BLOCK DIAGRAM OF TEST SETUP.....	16
11.3	TEST DATA.....	17
12	RADIATED SPURIOUS EMISSIONS.....	18
12.1	LIMITS.....	18
12.2	BLOCK DIAGRAM OF TEST SETUP.....	19
12.3	PROCEDURE.....	19
12.4	TEST DATA.....	21
13	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	29
13.1	LIMITS.....	29
13.2	BLOCK DIAGRAM OF TEST SETUP.....	30
13.3	PROCEDURE.....	30
13.4	TEST DATA.....	32
14	CONDUCTED SPURIOUS EMISSIONS.....	36
14.1	LIMITS.....	36

14.2	BLOCK DIAGRAM OF TEST SETUP.....	36
14.3	TEST DATA.....	37
15	POWER SPECTRUM DENSITY.....	38
15.1	LIMITS.....	38
15.2	BLOCK DIAGRAM OF TEST SETUP.....	38
15.3	TEST DATA.....	38
16	CONDUCTED PEAK OUTPUT POWER.....	39
16.1	LIMITS.....	39
16.2	BLOCK DIAGRAM OF TEST SETUP.....	39
16.3	TEST DATA.....	40
17	MINIMUM 6DB BANDWIDTH.....	41
17.1	LIMITS.....	41
17.2	BLOCK DIAGRAM OF TEST SETUP.....	41
17.3	TEST DATA.....	41
18	ANTENNA REQUIREMENT.....	42
18.1	CONCLUSION.....	42
19	APPENDIX.....	43
19.1	MAXIMUM CONDUCTED OUTPUT POWER.....	43
19.2	-6DB BANDWIDTH.....	45
19.3	OCCUPIED CHANNEL BANDWIDTH.....	47
19.4	MAXIMUM POWER SPECTRAL DENSITY LEVEL.....	49
19.5	BAND EDGE.....	51
19.6	CONDUCTED RF SPURIOUS EMISSION.....	54
APPENDIX A: PHOTOGRAPHS OF TEST SETUP.....		58
APPENDIX B: PHOTOGRAPHS OF EUT.....		60

1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

2 GENERAL INFORMATION

Applicant	ShenZhen WeiHejia Electronics Technology CO.,LTD
Address	11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao community, Gongming agency, Guangming new district, Shenzhen
Manufacturer	ShenZhen WeiHejia Electronics Technology CO.,LTD
Address	11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao community, Gongming agency, Guangming new district, Shenzhen
Factory	ShenZhen WeiHejia Electronics Technology CO.,LTD
Address	11st floor, Taijiale technology Industrial park, Tongguan Road, Tianliao community, Gongming agency, Guangming new district, Shenzhen
Product Name	Westgate Resorts Owner Tablet
Test Model No.	T803

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	863A-MB-5.0
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Integral Antenna
Antenna Gain:	1.5dBi

4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC3.7V

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation.

Remark: Full battery is used during all test except ac conducted emission

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

Parameter	Expanded Uncertainty (Confidence of 95%)
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %
Radiated Emission (30MHz ~ 1000MHz)	±4.35 dB
Radiated Emission (1GHz ~ 18GHz)	±4.44 dB

7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
--	--	--	--	--

Note:

-- means no any support device during testing.

8 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

BlueAsia

9 TEST INSTRUMENTS LIST

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2020/10/12	2021/10/11
LISN	R&S	ENV216	3560.6550.15	2020/10/12	2021/10/11
LISN	AT	AT166-2	AKK1806000003	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

Test Equipment Of Conducted Band Edges Measurement					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25

Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Conducted Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11

Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Power Spectrum Density

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Conducted Peak Output Power

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Minimum 6dB Bandwidth

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

10 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

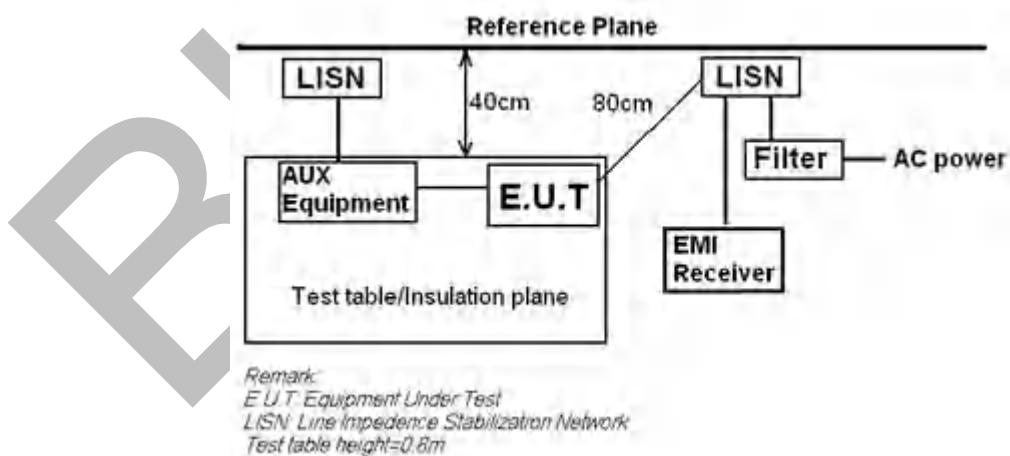
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	Transmitting mode
Test Mode (Final Test)	Transmitting mode
Tester	Jozu
Temperature	25°C
Humidity	60%

10.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

10.2 BLOCK DIAGRAM OF TEST SETUP



10.3 PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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.

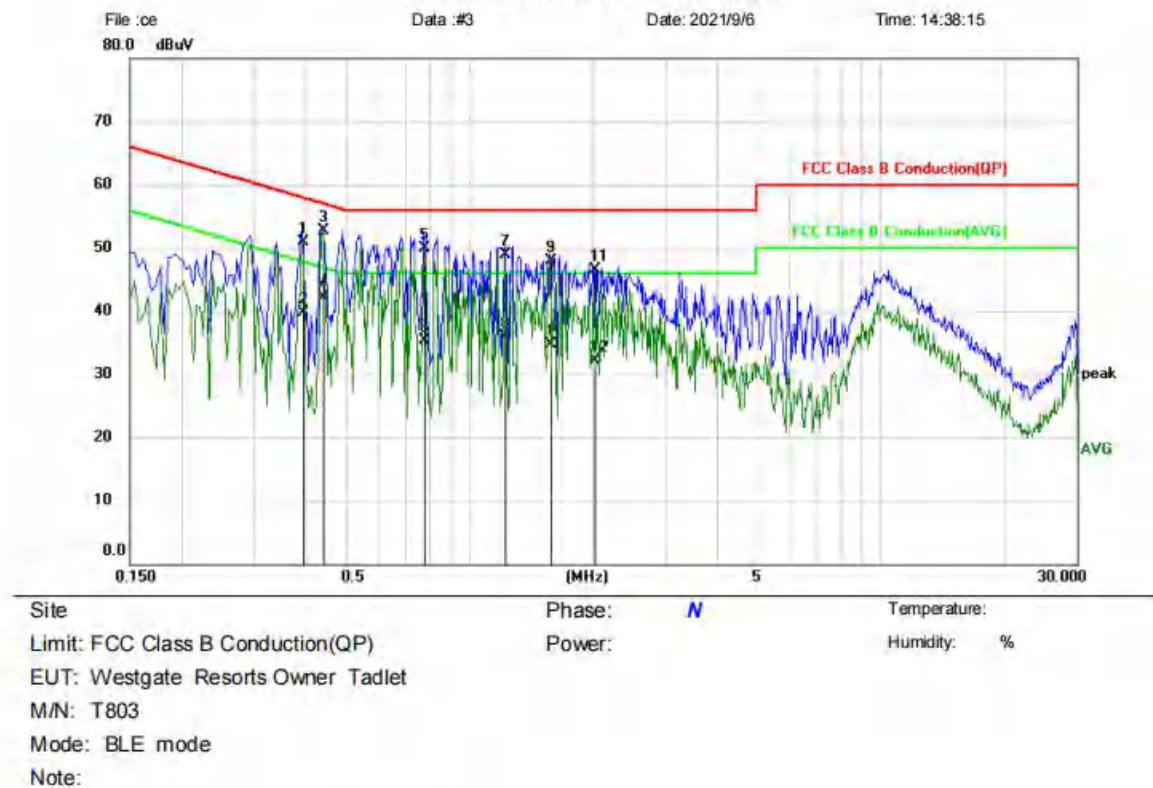
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

BlueAsia

10.4 TEST DATA

[TestMode: Transmitting mode]; [Line: Nutral]; [Power:AC120V/60Hz]

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3940	41.04	9.78	50.82	57.98	-7.16	QP	
2		0.3940	29.84	9.78	39.62	47.98	-8.36	AVG	
3	*	0.4420	42.98	9.78	52.76	57.02	-4.26	QP	
4		0.4420	32.24	9.78	42.02	47.02	-5.00	AVG	
5		0.7780	40.13	9.82	49.95	56.00	-6.05	QP	
6		0.7780	25.48	9.82	35.30	46.00	-10.70	AVG	
7		1.2260	38.98	9.84	48.82	56.00	-7.18	QP	
8		1.2260	26.13	9.84	35.97	46.00	-10.03	AVG	
9		1.5700	37.98	9.85	47.83	56.00	-8.17	QP	
10		1.5700	24.78	9.85	34.63	46.00	-11.37	AVG	
11		2.0140	36.65	9.86	46.51	56.00	-9.49	QP	
12		2.0140	22.28	9.86	32.14	46.00	-13.86	AVG	

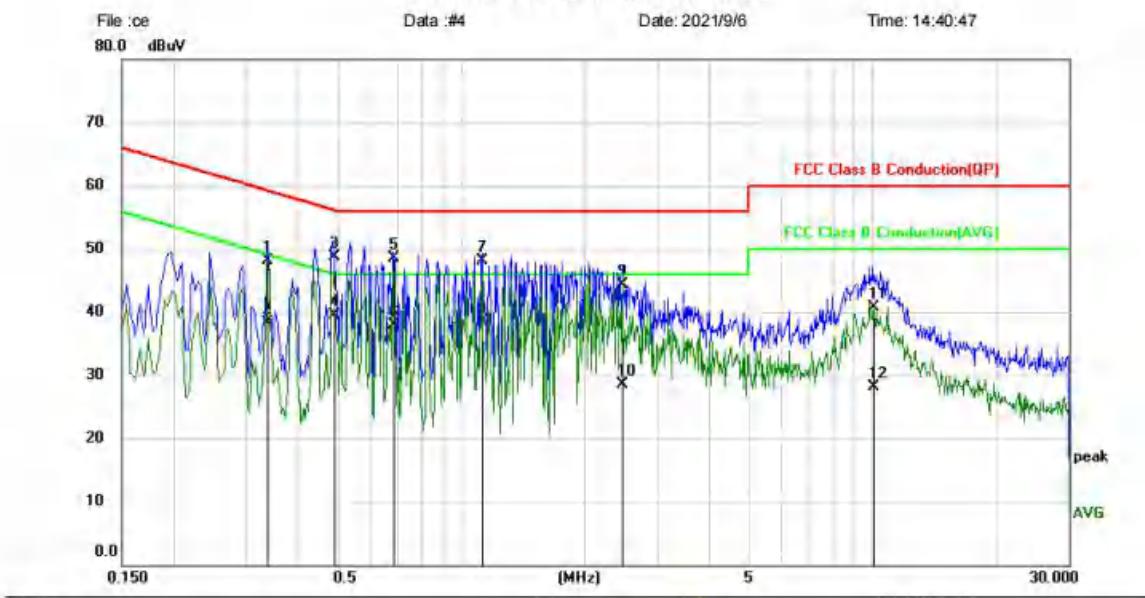
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMethod: Transmitting mode]; [Line: Line] ; [Power: AC120V/60Hz]

Conducted Emission Measurement



Site: **L1** Temperature:
 Limit: FCC Class B Conduction(QP)
 Power: **L1** Humidity: %
 EUT: Westgate Resorts Owner Tadlet
 M/N: T803
 Mode: BLE mode
 Note:

No.	Mk.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		Freq.	Level	Factor				
		MHz	dBuV	dB	dBuV	dB		
1	0.3379	38.28	9.85	48.13	59.25	-11.12	QP	
2	0.3379	28.54	9.85	38.39	49.25	-10.86	AVG	
3	0.4900	38.78	9.87	48.65	56.17	-7.52	QP	
4 *	0.4900	29.62	9.87	39.49	46.17	-6.68	AVG	
5	0.6860	38.67	9.89	48.56	56.00	-7.44	QP	
6	0.6860	28.07	9.89	37.96	46.00	-8.04	AVG	
7	1.1260	38.21	9.92	48.13	56.00	-7.87	QP	
8	1.1260	28.68	9.92	38.60	46.00	-7.40	AVG	
9	2.4620	34.36	9.95	44.31	56.00	-11.69	QP	
10	2.4620	18.63	9.95	28.58	46.00	-17.42	AVG	
11	10.0300	30.54	10.22	40.76	60.00	-19.24	QP	
12	10.0300	17.86	10.22	28.08	50.00	-21.92	AVG	

*:Maximum data x:Over limit !:over margin

⟨Reference Only⟩

Test Result: Pass

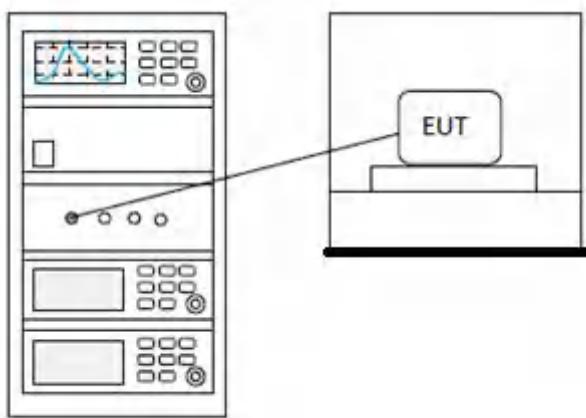
11 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

11.1 LIMITS

Limit:	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)).
---------------	--

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

12 RADIATED SPURIOUS EMISSIONS

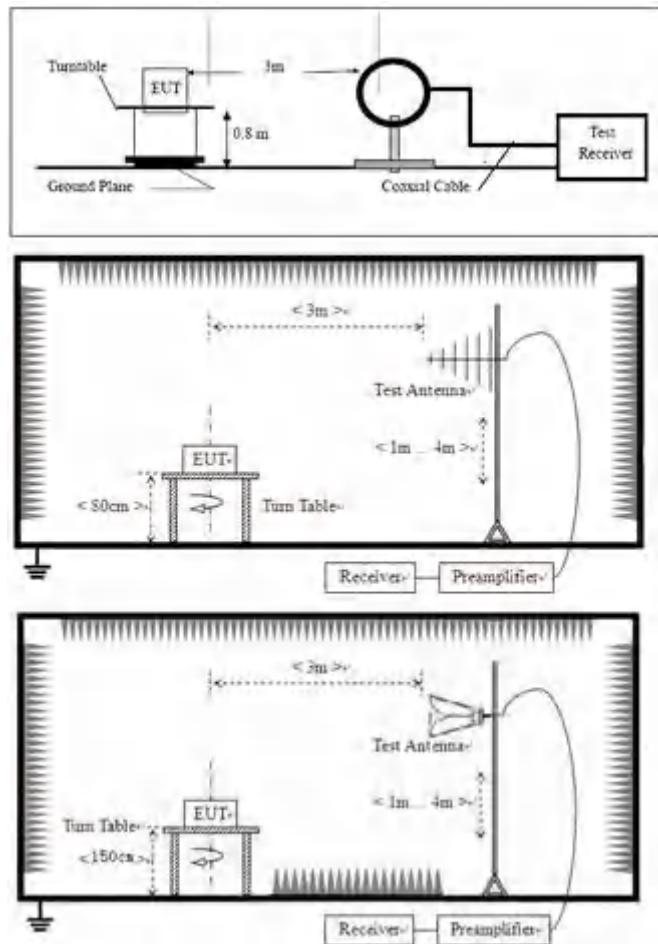
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

12.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

12.2 BLOCK DIAGRAM OF TEST SETUP



12.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

12.4 TEST DATA

[TestMode: TX mid channel]; [Polarity: Horizontal]

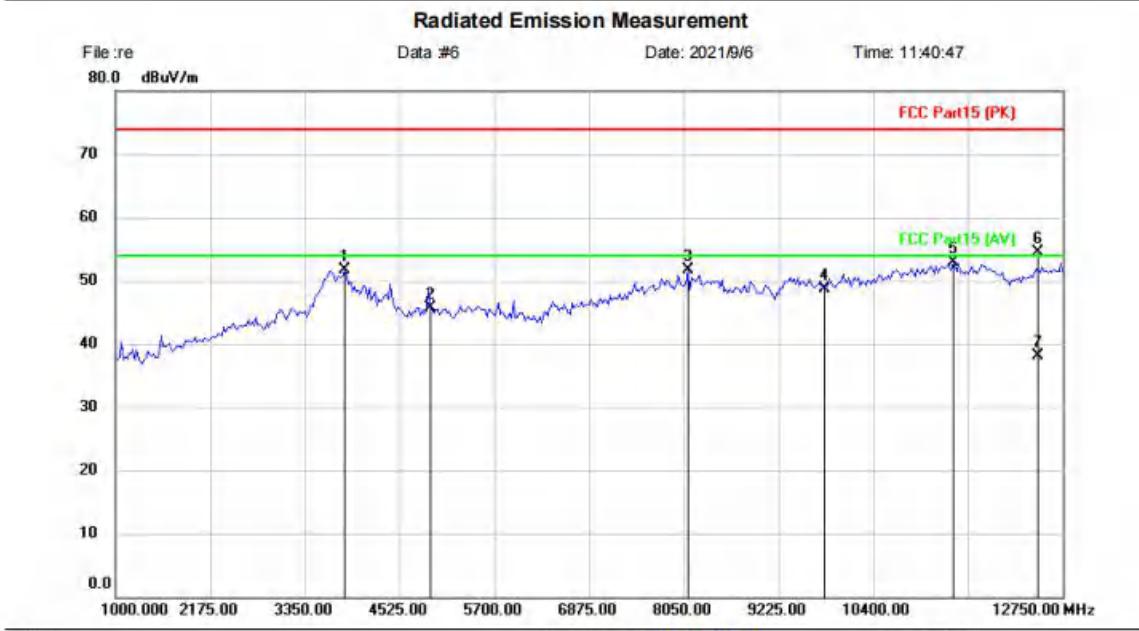


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX mid channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature:

Limit: FCC Part15 (PK) Power: Humidity: %

EUT: Westgate Resorts Owner Tablet Distance:

M/N: T803

Mode: TX-M

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		3843.500	44.67	7.12	51.79	74.00	-22.21	peak			
2		4884.000	42.28	3.34	45.62	74.00	-28.38	peak			
3		8097.000	43.54	8.07	51.61	74.00	-22.39	peak			
4		9768.000	39.00	9.63	48.63	74.00	-25.37	peak			
5		11387.000	41.18	11.78	52.96	74.00	-21.04	peak			
6		12444.500	42.63	11.80	54.43	74.00	-19.57	peak			
7	*	12444.500	26.32	11.80	38.12	54.00	-15.88	AVG			

*:Maximum data x:Over limit !:over margin

⟨Reference Only⟩

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Horizontal]

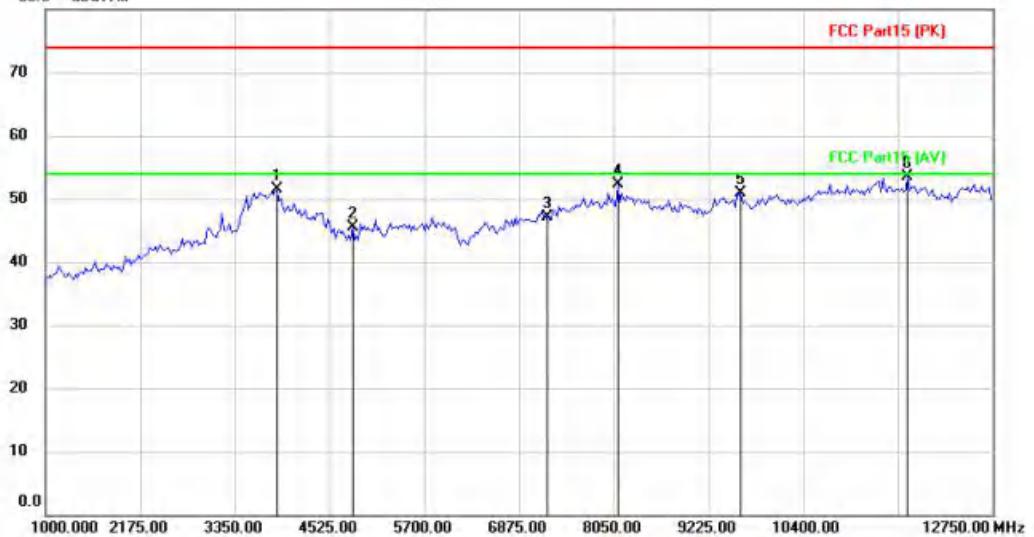
Radiated Emission Measurement

File: re
80.0 dBuV/m

Data #7

Date: 2021/9/6

Time: 11:56:51



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: Westgate Resorts Owner Tablet

Distance:

M/N: T803

Mode: TX-L

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		3867.000	44.60	6.82	51.42	74.00	-22.58	peak			
2		4804.000	41.89	3.71	45.60	74.00	-28.40	peak			
3		7206.000	41.15	5.96	47.11	74.00	-26.89	peak			
4		8097.000	44.23	8.07	52.30	74.00	-21.70	peak			
5		9608.000	41.56	9.29	50.85	74.00	-23.15	peak			
6	*	11692.500	41.60	11.82	53.42	74.00	-20.58	peak			

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Vertical]

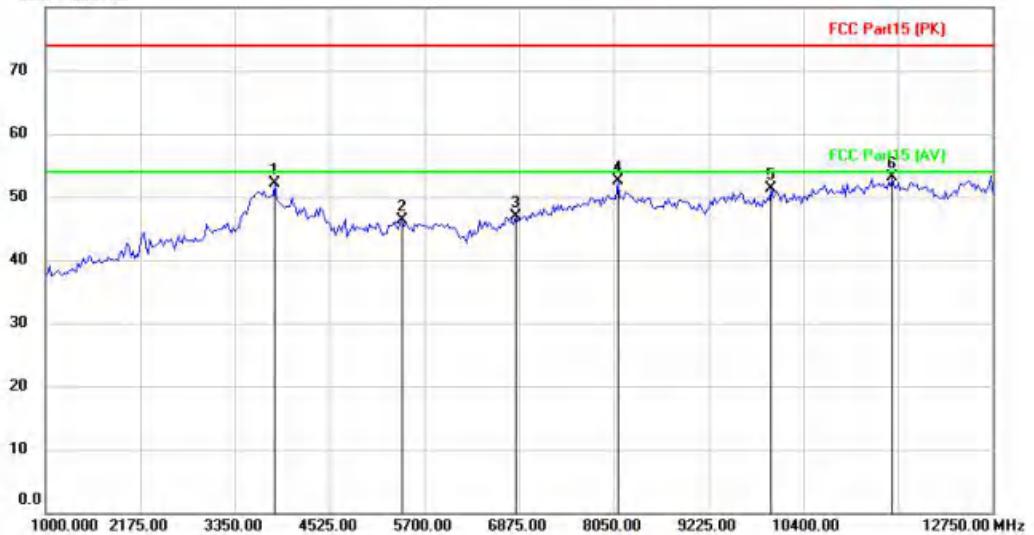
Radiated Emission Measurement

File: re
80.0 dBuV/m

Data #8

Date: 2021/9/6

Time: 11:59:34



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: Westgate Resorts Owner Tablet

Distance:

M/N: T803

Mode: TX-L

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB Detector	Antenna Height cm	Table Degree degree	Comment
1		3843.500	44.90	7.12	52.02	74.00	-21.98	peak		
2		5418.000	42.28	4.07	46.35	74.00	-27.65	peak		
3		6828.000	41.86	5.04	46.90	74.00	-27.10	peak		
4		8097.000	44.46	8.07	52.53	74.00	-21.47	peak		
5		10000.500	40.89	10.46	51.35	74.00	-22.65	peak		
6	*	11504.500	41.20	11.92	53.12	74.00	-20.88	peak		

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Horizontal]

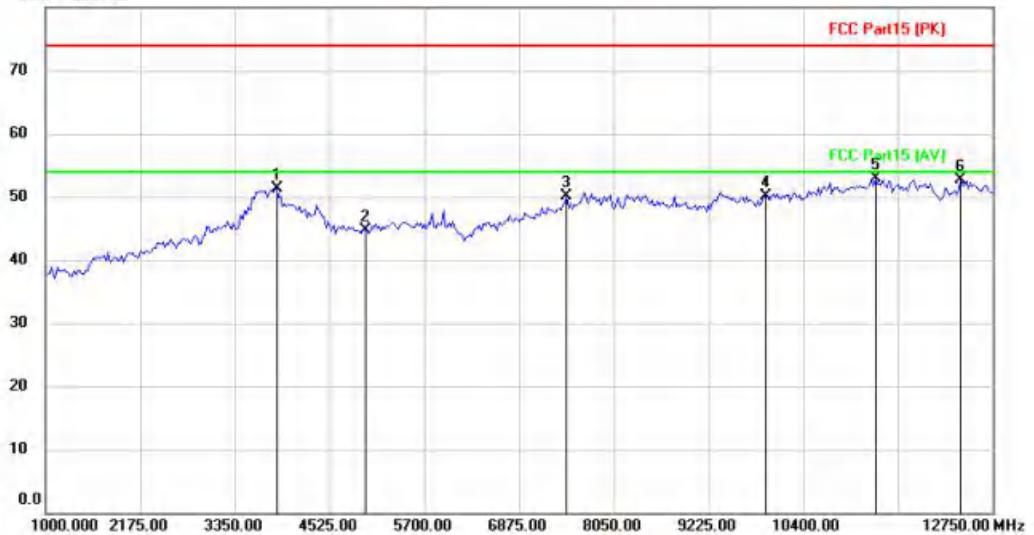
Radiated Emission Measurement

File: re
80.0 dBuV/m

Data #9

Date: 2021/9/6

Time: 12:04:52



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: Westgate Resorts Owner Tablet

Distance:

M/N: T803

Mode: TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector	Antenna Height cm	Table Degree degree	Comment
1		3867.000	44.57	6.82	51.39	74.00	-22.61	peak			
2		4960.000	40.99	3.75	44.74	74.00	-29.26	peak			
3		7440.000	43.23	6.86	50.09	74.00	-23.91	peak			
4		9920.000	39.93	10.16	50.09	74.00	-23.91	peak			
5	*	11293.000	40.96	11.91	52.87	74.00	-21.13	peak			
6		12350.500	41.05	11.67	52.72	74.00	-21.28	peak			

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Vertical]

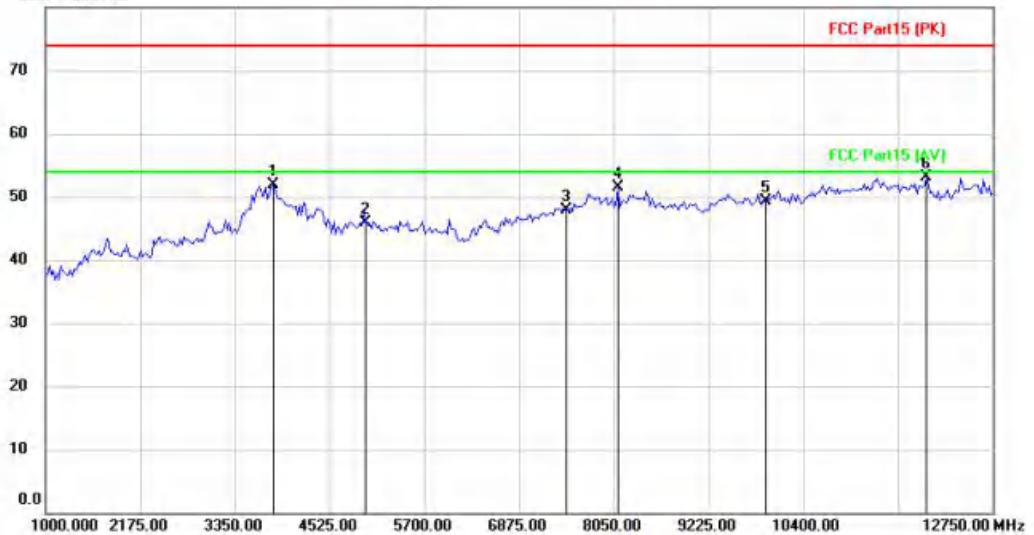
Radiated Emission Measurement

File: re
80.0 dBuV/m

Data #10

Date: 2021/9/6

Time: 12:07:11



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: Westgate Resorts Owner Tablet

Distance:

M/N: T803

Mode: TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		3820.000	44.54	7.41	51.95	74.00	-22.05	peak			
2		4960.000	42.17	3.75	45.92	74.00	-28.08	peak			
3		7440.000	41.06	6.86	47.92	74.00	-26.08	peak			
4		8097.000	43.48	8.07	51.55	74.00	-22.45	peak			
5		9920.000	39.13	10.16	49.29	74.00	-24.71	peak			
6	*	11927.500	41.69	11.39	53.08	74.00	-20.92	peak			

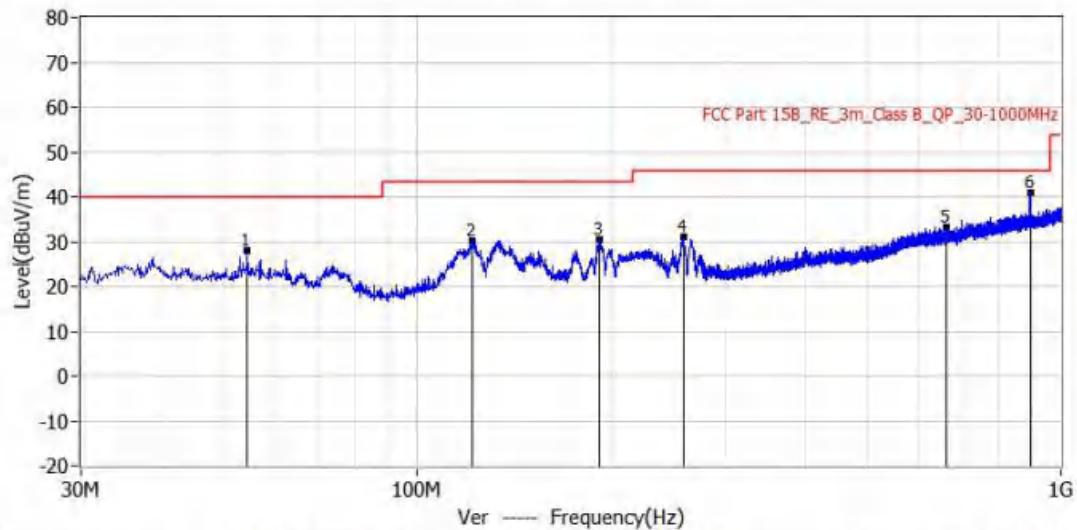
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX below 1G]; [Polarity: Vertical]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202108-A119
EUT: Weatgate Reaorts Owner Tablet	Test Engineer: York
M/N: T803	Temperature:
S/N:	Humidity:
Test Mode: BLE mode	Test Voltage:
Note:	Test Data: 2021-09-07 10:58:02

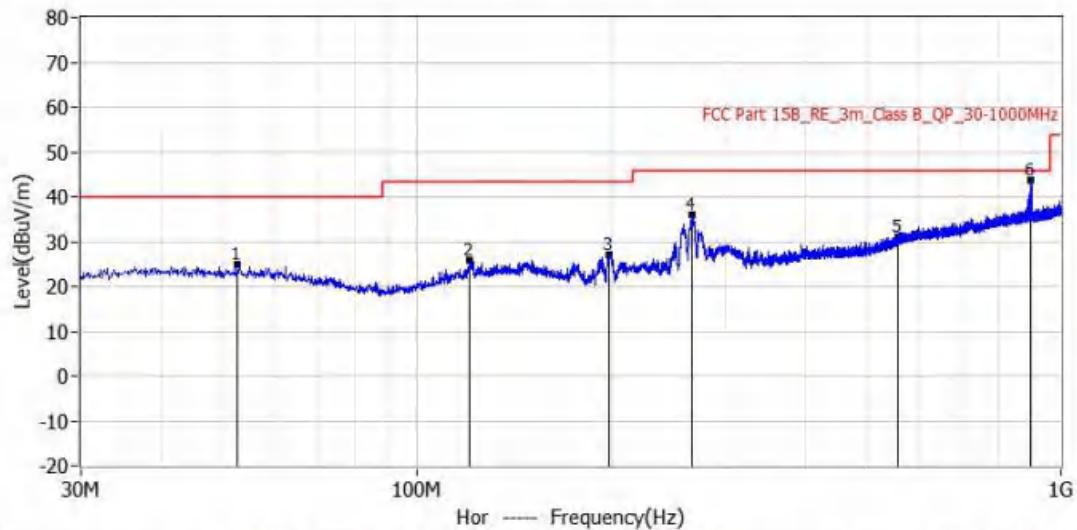


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	54.371MHz	40.0	28.0	-12.0	4.3	23.7	QP	Ver	100.0	170.0
2*	121.908MHz	43.5	30.3	-13.2	7.5	22.8	QP	Ver	100.0	150.0
3*	191.748MHz	43.5	30.4	-13.1	9.4	21.0	QP	Ver	100.0	29.0
4*	258.678MHz	46.0	31.1	-14.9	8.5	22.6	QP	Ver	100.0	170.0
5*	664.623MHz	46.0	33.3	-12.7	1.6	31.7	QP	Ver	100.0	70.0
6*	898.393MHz	46.0	41.0	-5.0	6.1	34.9	QP	Ver	100.0	214.0

Test Result: Pass

[TestMode: TX below 1G]; [Polarity: Horizontal]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202108-A119
EUT: Weatgate Reaorts Owner Tablet	Test Engineer: York
M/N: T803	Temperature:
S/N:	Humidity:
Test Mode: BLE mode	Test Voltage:
Note:	Test Data: 2021-09-07 11:10:06



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	52.553MHz	40.0	24.8	-15.2	1.1	23.7	QP	Hor	100.0	0.0
2*	120.574MHz	43.5	25.7	-17.8	2.9	22.8	QP	Hor	100.0	140.0
3*	198.901MHz	43.5	27.2	-16.3	6.6	20.6	QP	Hor	100.0	265.0
4*	267.165MHz	46.0	35.9	-10.1	12.9	23.0	QP	Hor	100.0	277.0
5*	558.408MHz	46.0	31.2	-14.8	1.1	30.1	QP	Hor	100.0	0.0
6*	898.150MHz	46.0	43.6	-2.4	8.7	34.9	QP	Hor	100.0	0.0

Test Result: Pass

13 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

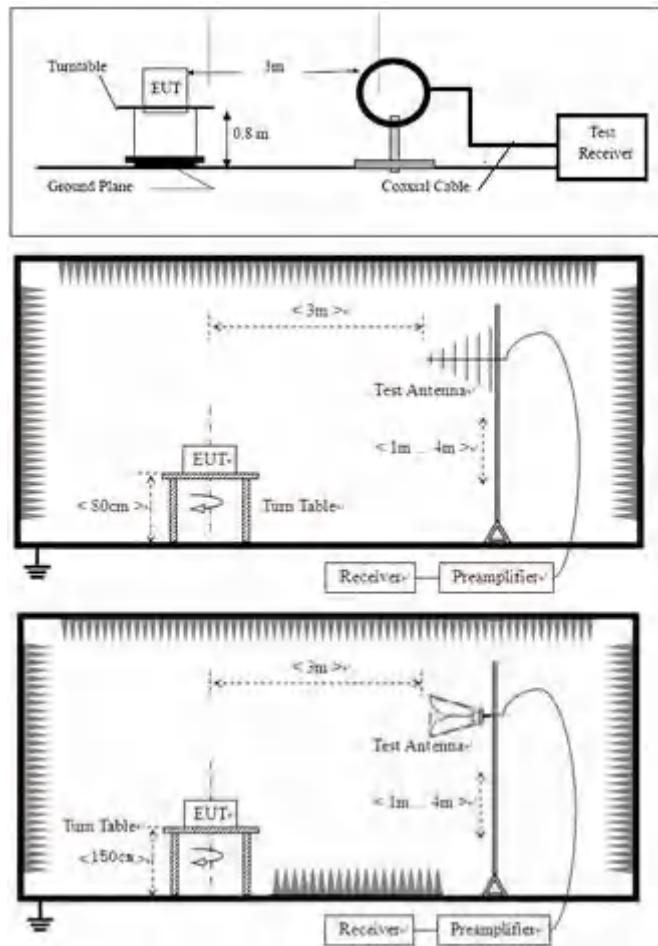
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

13.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

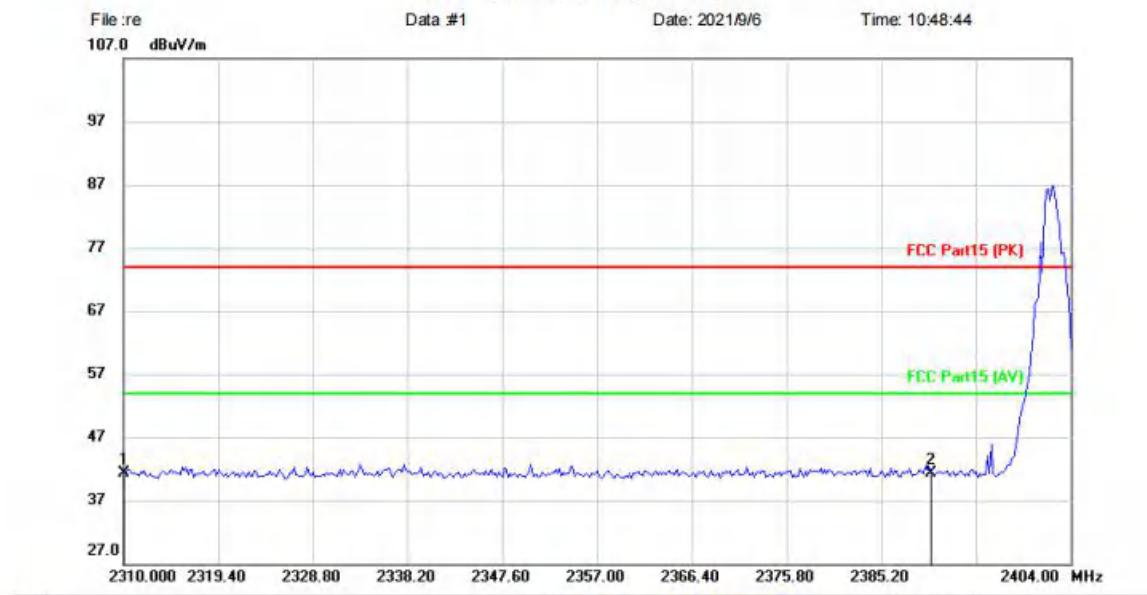
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BlueAsia

13.4 TEST DATA

[TestMode: TX low channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
 Limit: FCC Part15 (PK) Power: Humidity: %
 EUT: Westgate Resorts Owner Tablet Distance:
 M/N: T803
 Mode: TX-L
 Note:

No.	Mk.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
		Freq.	Level	Factor						
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	45.94	-4.61	41.33	74.00	-32.67	peak		
2	*	2390.000	45.64	-4.27	41.37	74.00	-32.63	peak		

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Vertical]

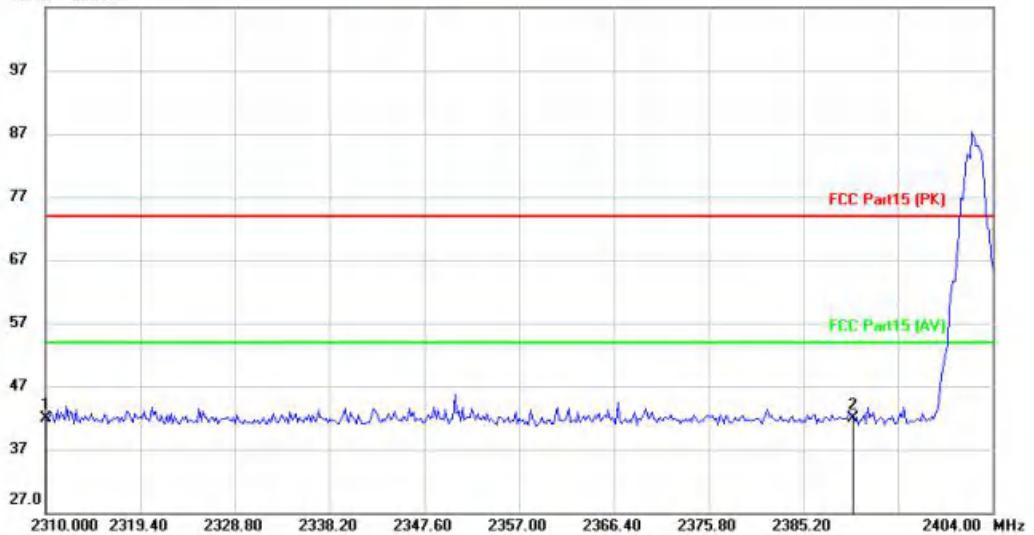
Radiated Emission Measurement

File: re
107.0 dBuV/m

Data #2

Date: 2021/9/6

Time: 10:52:09



Site: Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %
EUT: Westgate Resorts Owner Tablet Distance:
M/N: T803
Mode: TX-L
Note:

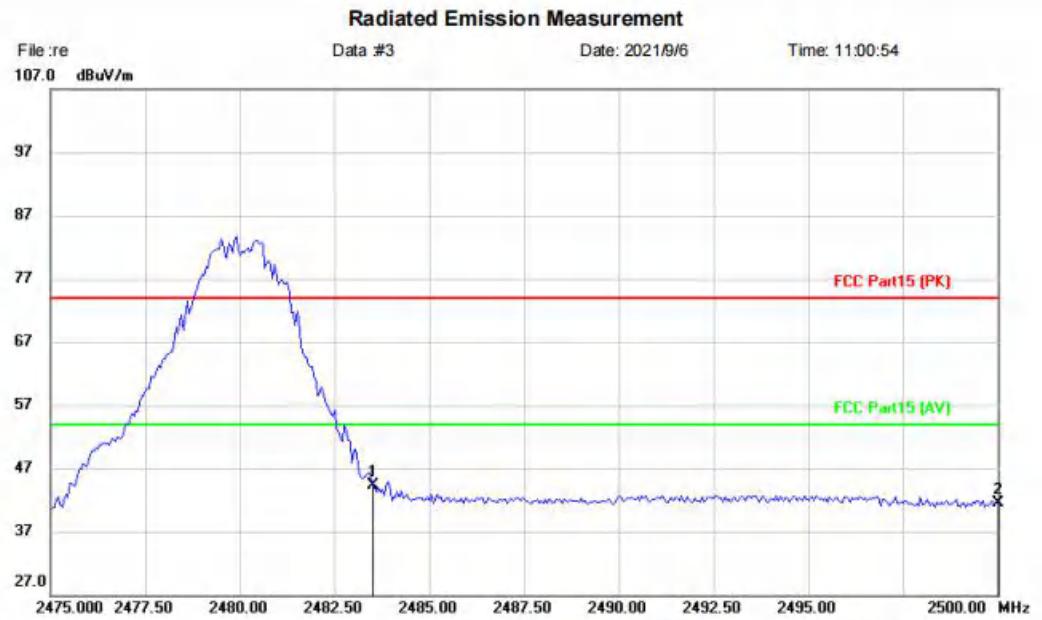
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	46.42	-4.61	41.81	74.00	-32.19	peak			
2	*	2390.000	46.19	-4.27	41.92	74.00	-32.08	peak			

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature:

Limit: FCC Part15 (PK) Power: Humidity: %

EUT: Westgate Resorts Owner Tablet Distance:

M/N: T803

Mode: TX-H

Note:

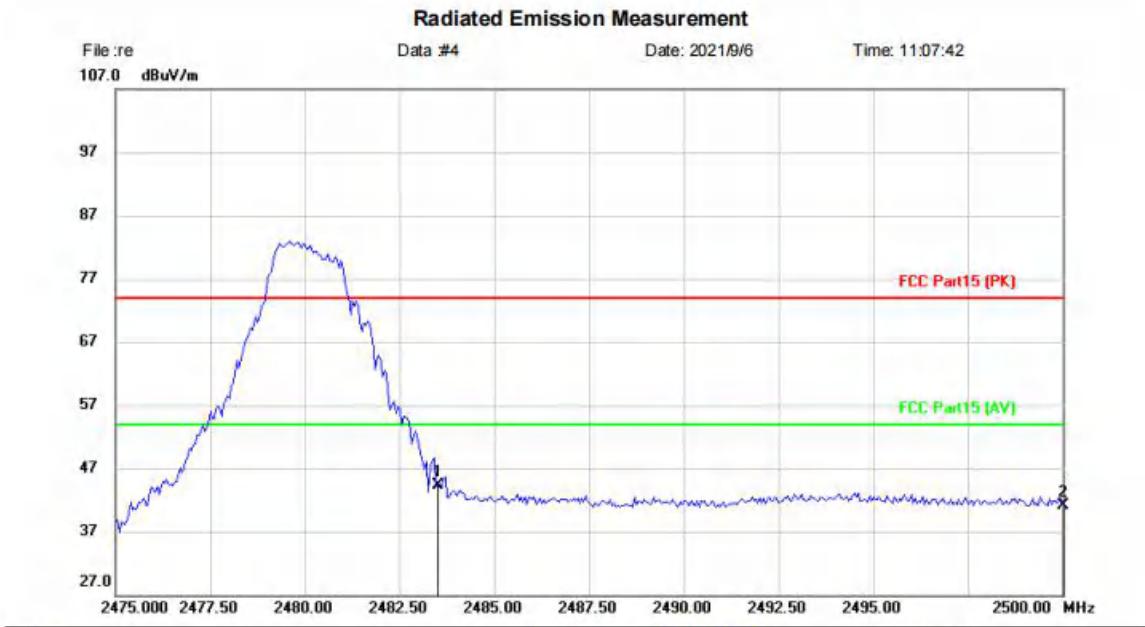
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	48.06	-3.84	44.22	74.00	-29.78	peak		
2		2500.000	45.19	-3.78	41.41	74.00	-32.59	peak		

*:Maximum data x:Over limit !:over margin

⟨Reference Only⟩

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Westgate Resorts Owner Tablet	Distance:	
M/N: T803		
Mode: TX-H		
Note:		

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	48.22	-3.84	44.38	74.00	-29.62	peak			
2		2500.000	44.79	-3.78	41.01	74.00	-32.99	peak			

*:Maximum data x:Over limit !:over margin

⟨ Reference Only

Test Result: Pass

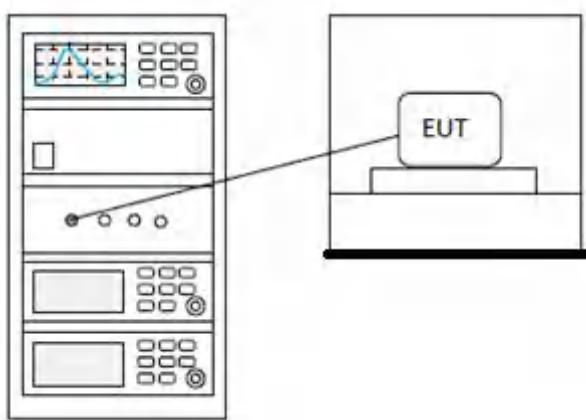
14 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

14.1 LIMITS

Limit:	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)).
---------------	--

14.2 BLOCK DIAGRAM OF TEST SETUP



14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

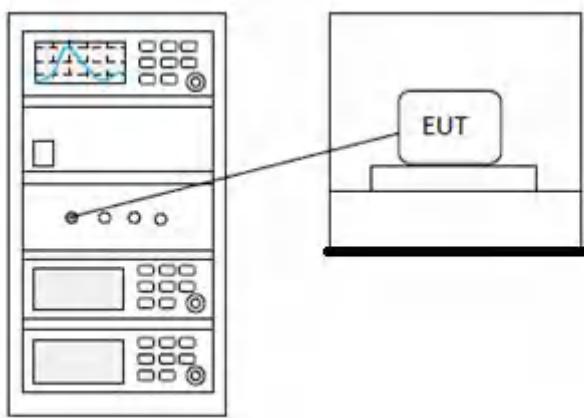
15 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

15.1 LIMITS

Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

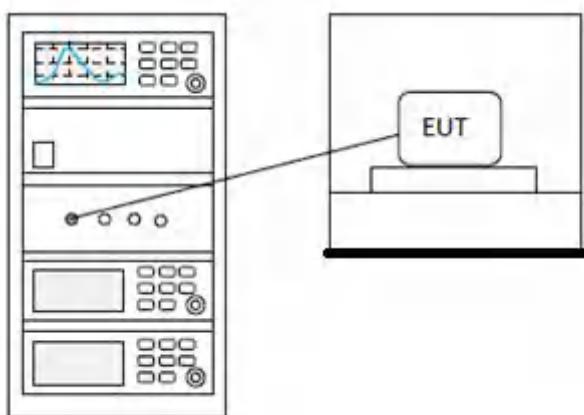
16 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

16.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

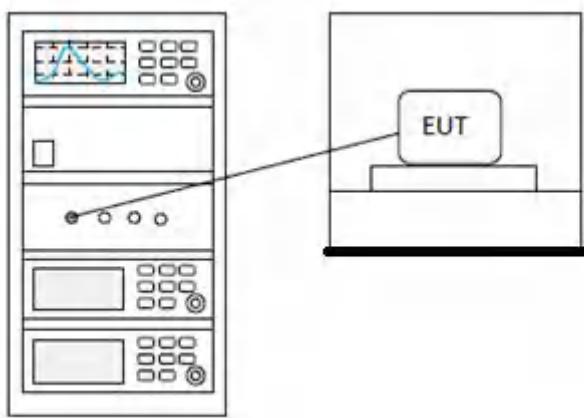
17 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

17.1 LIMITS

Limit: ≥ 500 kHz

17.2 BLOCK DIAGRAM OF TEST SETUP



17.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

18 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

18.1 CONCLUSION

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.

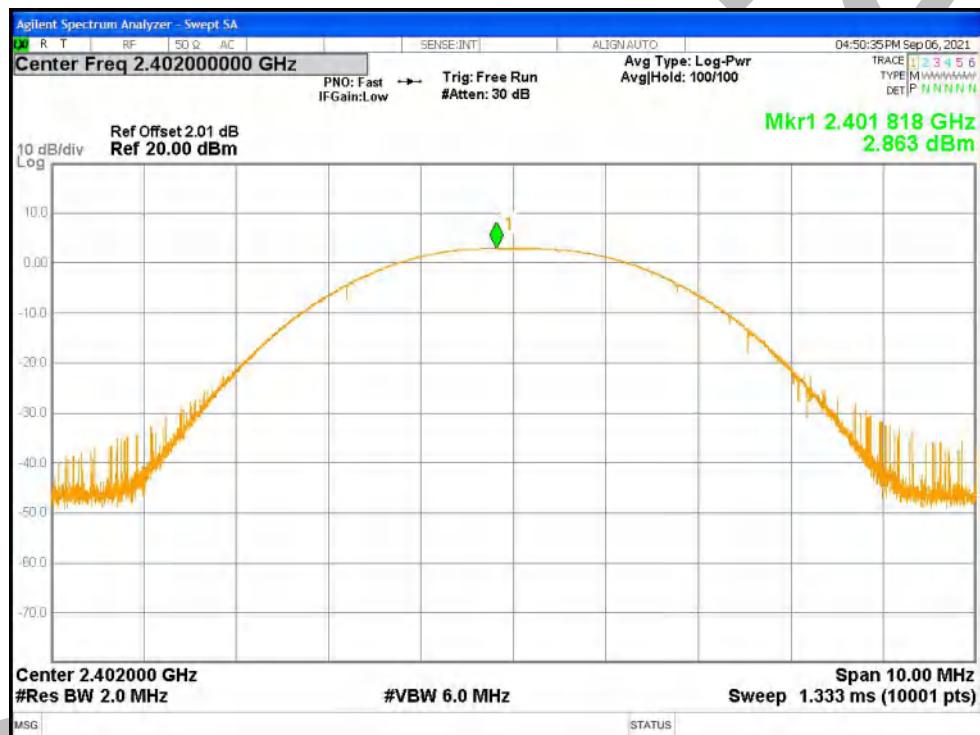


19 APPENDIX

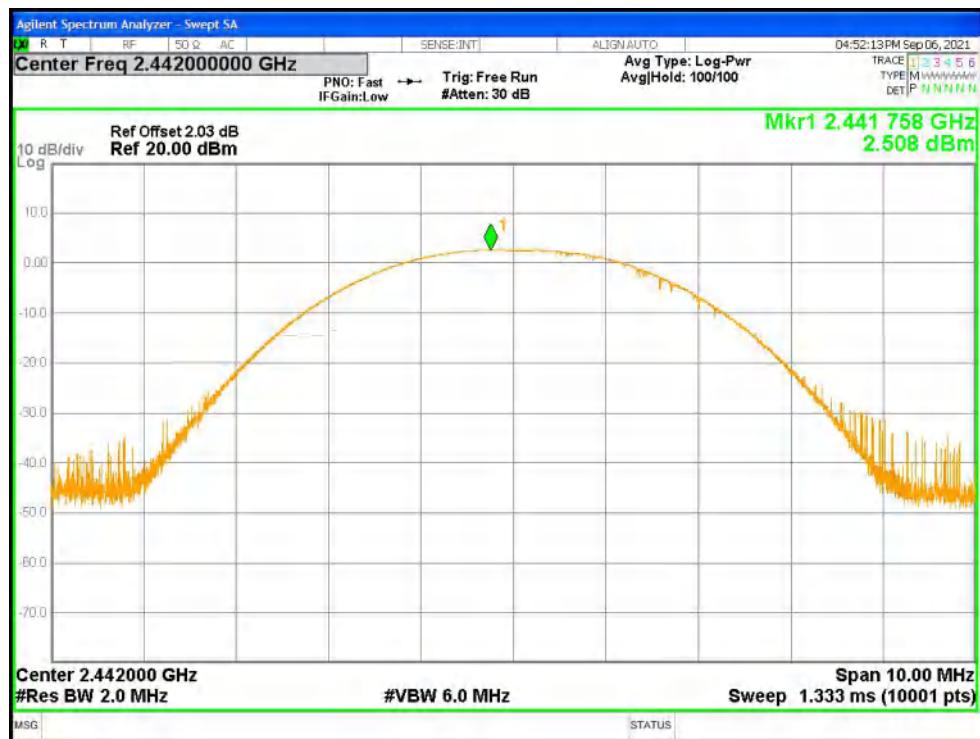
19.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	2.863	30	Pass
NVNT	BLE	2442	Ant1	2.508	30	Pass
NVNT	BLE	2480	Ant1	1.676	30	Pass

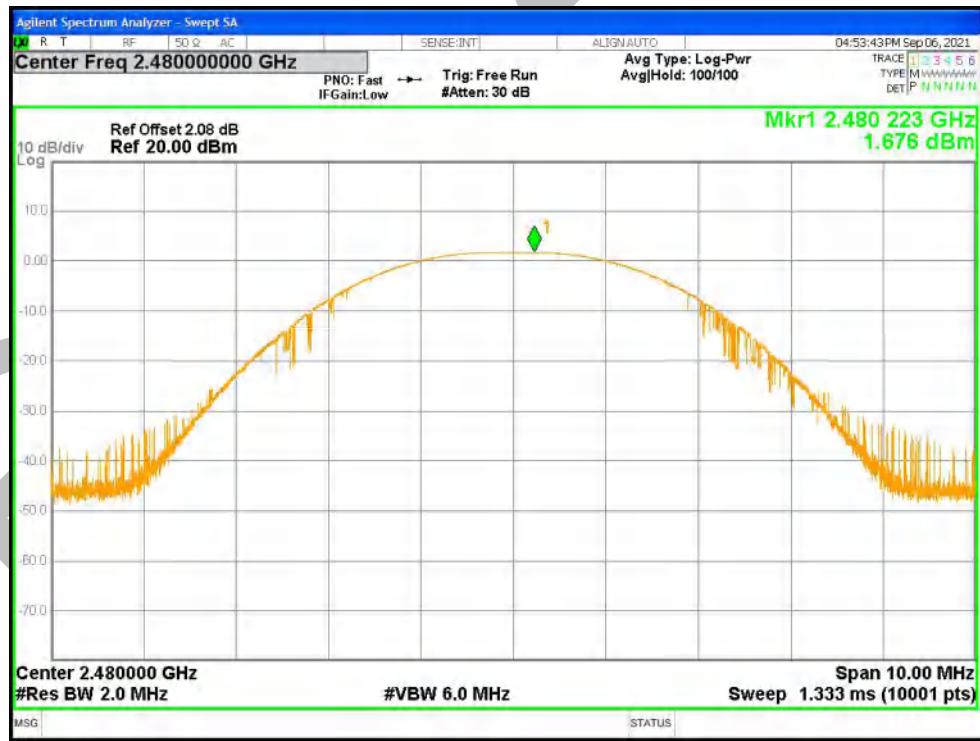
Power NVNT BLE 2402MHz Ant1



Power NVNT BLE 2442MHz Ant1



Power NVNT BLE 2480MHz Ant1



19.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant1	0.675	0.5	Pass
NVNT	BLE	2442	Ant1	0.675	0.5	Pass
NVNT	BLE	2480	Ant1	0.666	0.5	Pass

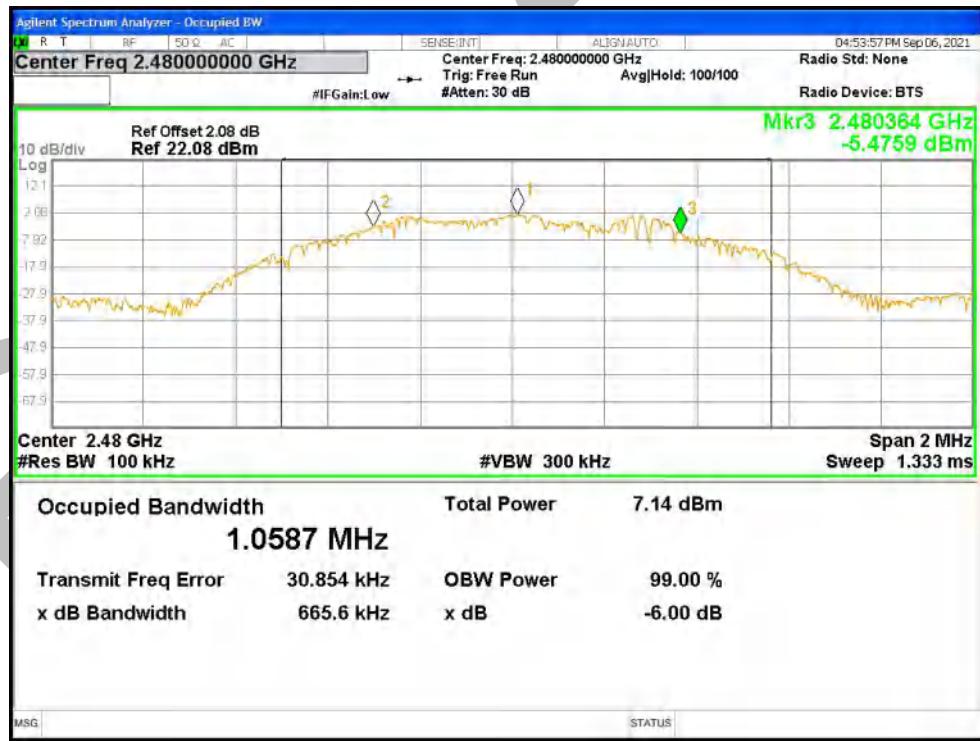
-6dB Bandwidth NVNT BLE 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2442MHz Ant1



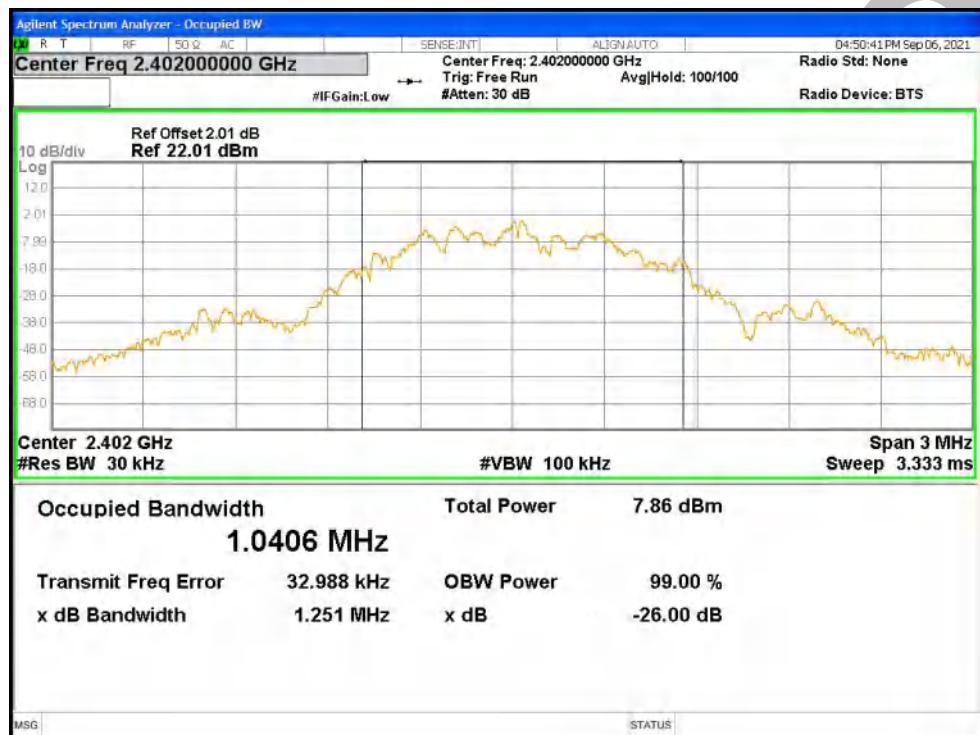
-6dB Bandwidth NVNT BLE 2480MHz Ant1



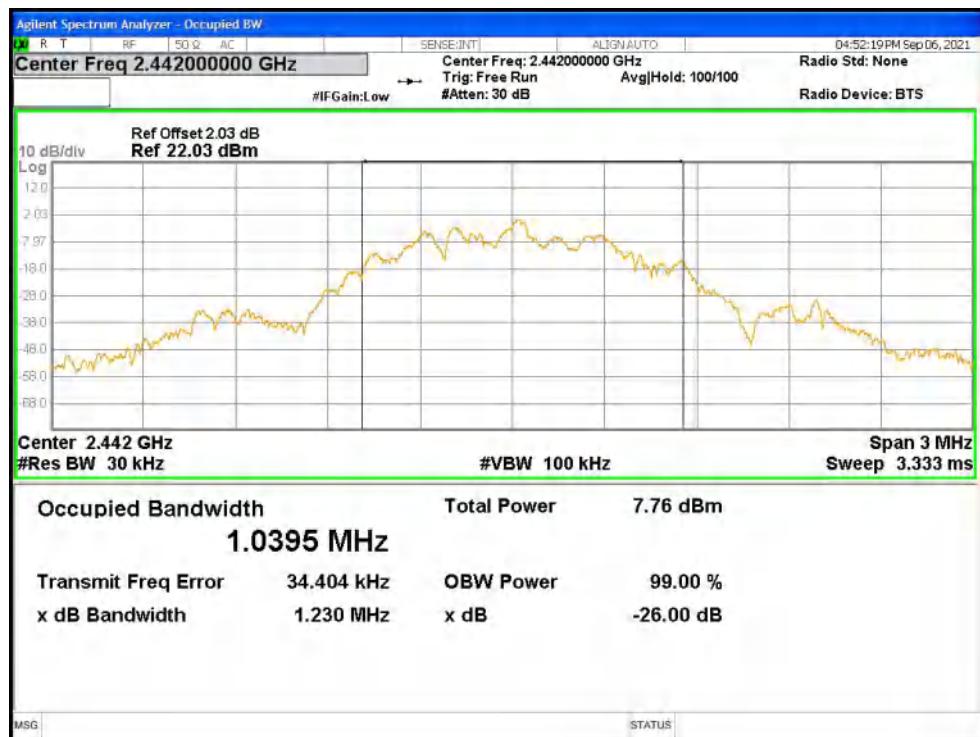
19.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.040576405
NVNT	BLE	2442	Ant1	1.039470172
NVNT	BLE	2480	Ant1	1.04015392

OBW NVNT BLE 2402MHz Ant1



OBW NVNT BLE 2442MHz Ant1



OBW NVNT BLE 2480MHz Ant1



19.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-6.703	8	Pass
NVNT	BLE	2442	Ant1	-7.151	8	Pass
NVNT	BLE	2480	Ant1	-7.914	8	Pass

PSD NVNT BLE 2402MHz Ant1



PSD NVNT BLE 2442MHz Ant1



PSD NVNT BLE 2480MHz Ant1



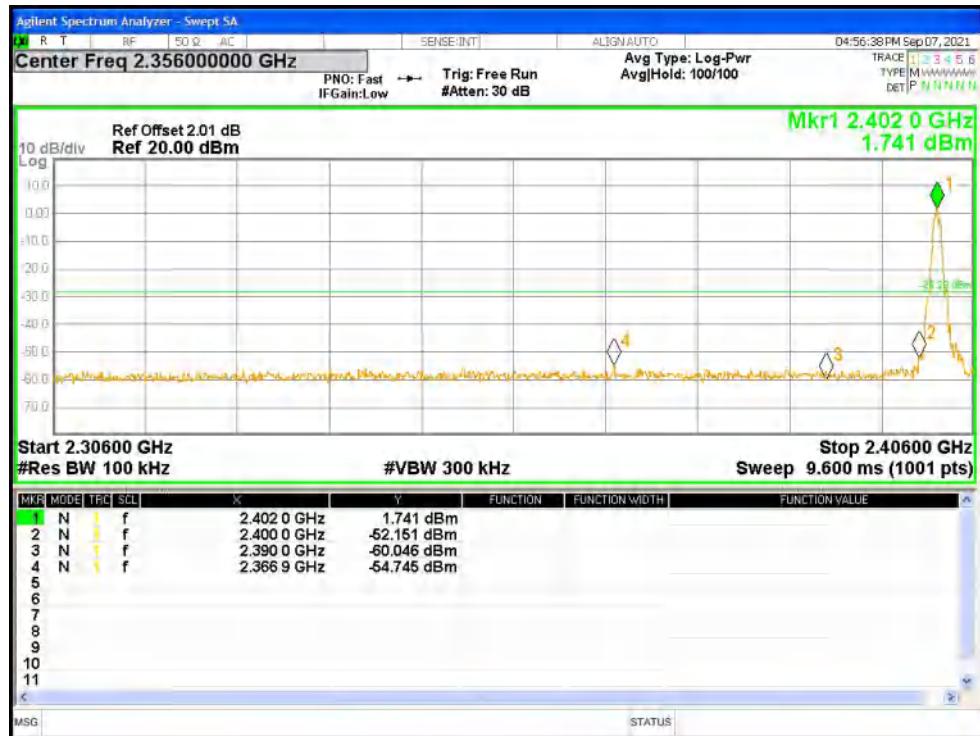
19.5 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-58.52	-30	Pass
NVNT	BLE	2480	Ant1	-57.17	-30	Pass

Band Edge NVNT BLE 2402MHz Ant1 Ref



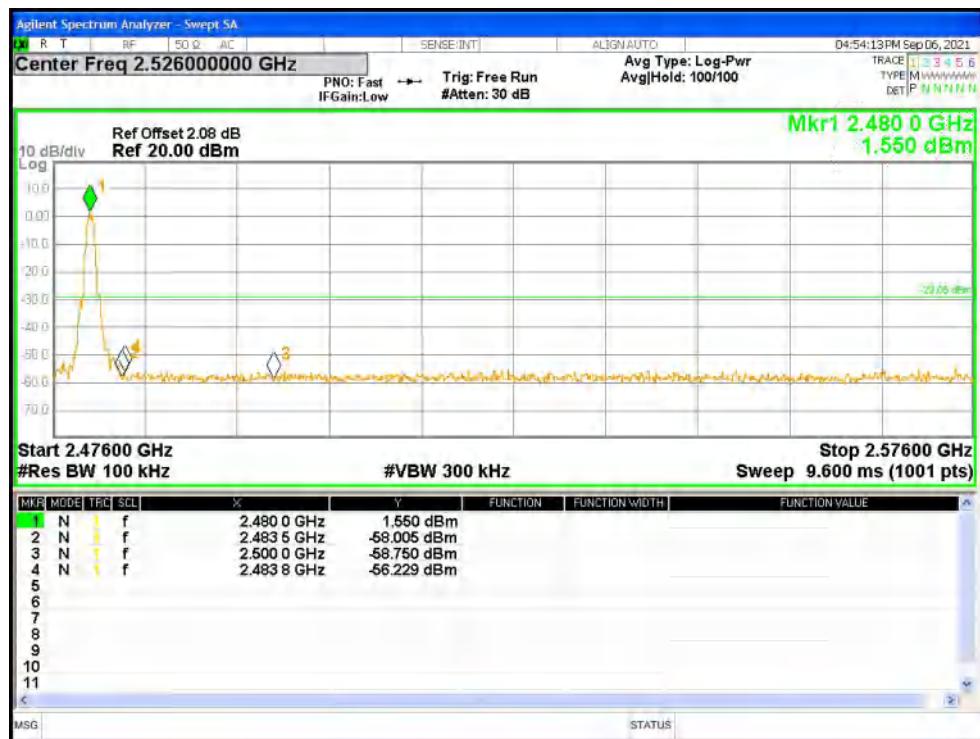
Band Edge NVNT BLE 2402MHz Ant1 Emission



Band Edge NVNT BLE 2480MHz Ant1 Ref



Band Edge NVNT BLE 2480MHz Ant1 Emission



19.6 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-48.28	-30	Pass
NVNT	BLE	2442	Ant1	-47.43	-30	Pass
NVNT	BLE	2480	Ant1	-46.85	-30	Pass

Tx. Spurious NVNT BLE 2402MHz Ant1 Ref



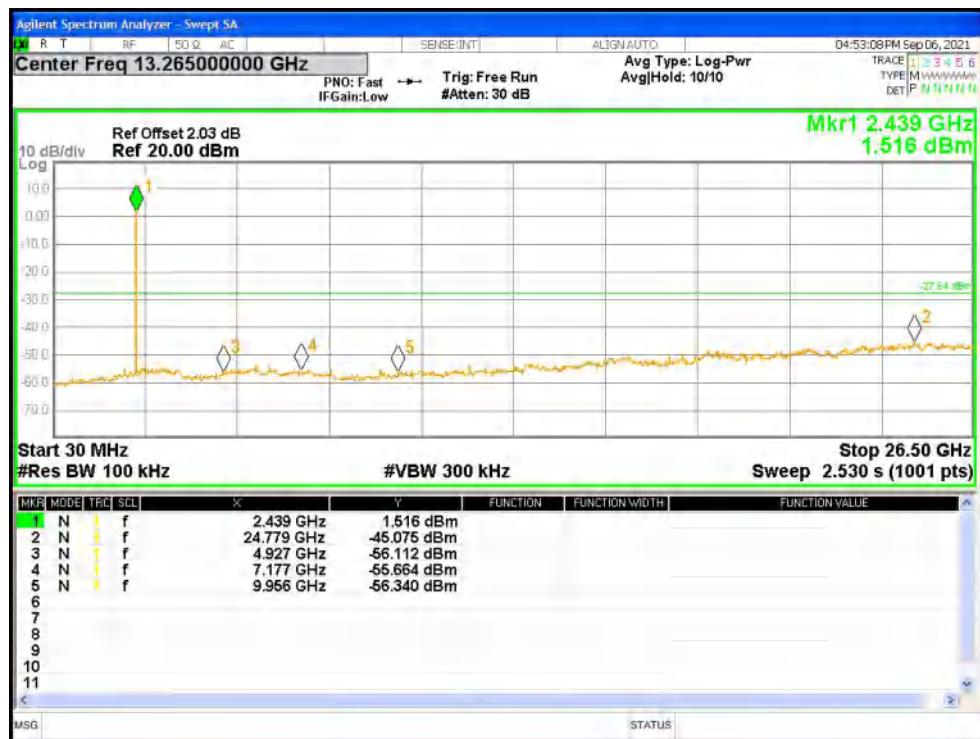
Tx. Spurious NVNT BLE 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 2442MHz Ant1 Ref



Tx. Spurious NVNT BLE 2442MHz Ant1 Emission



Tx. Spurious NVNT BLE 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2480MHz Ant1 Emission



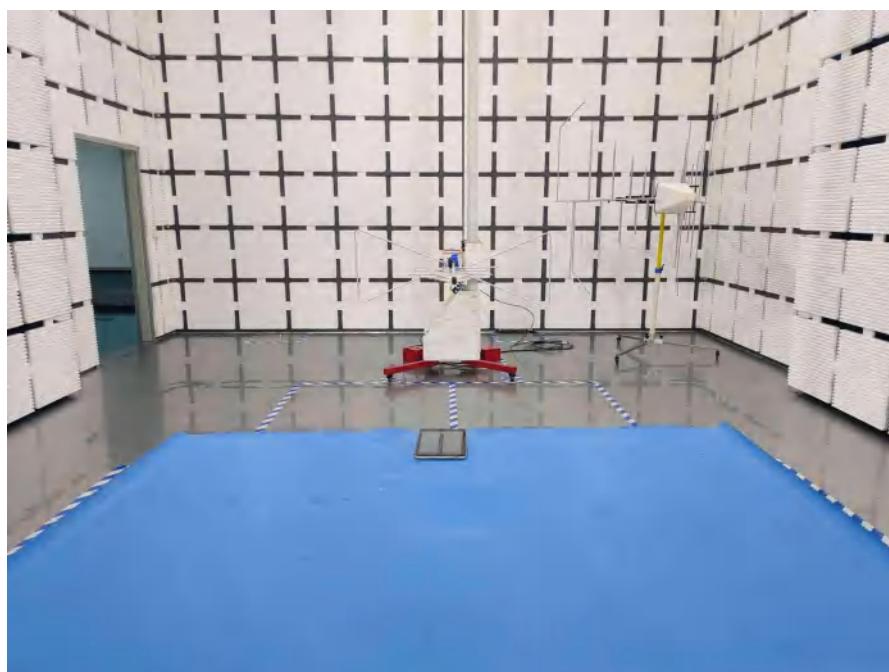
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Conducted Emissions at AC Power Line (150kHz-30MHz)



Radiated Spurious Emissions

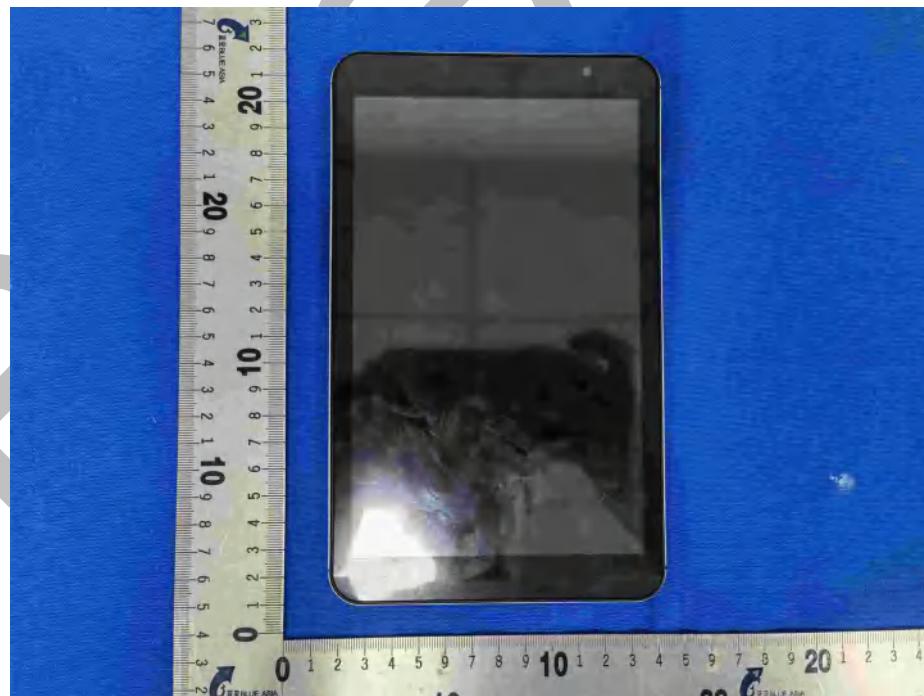


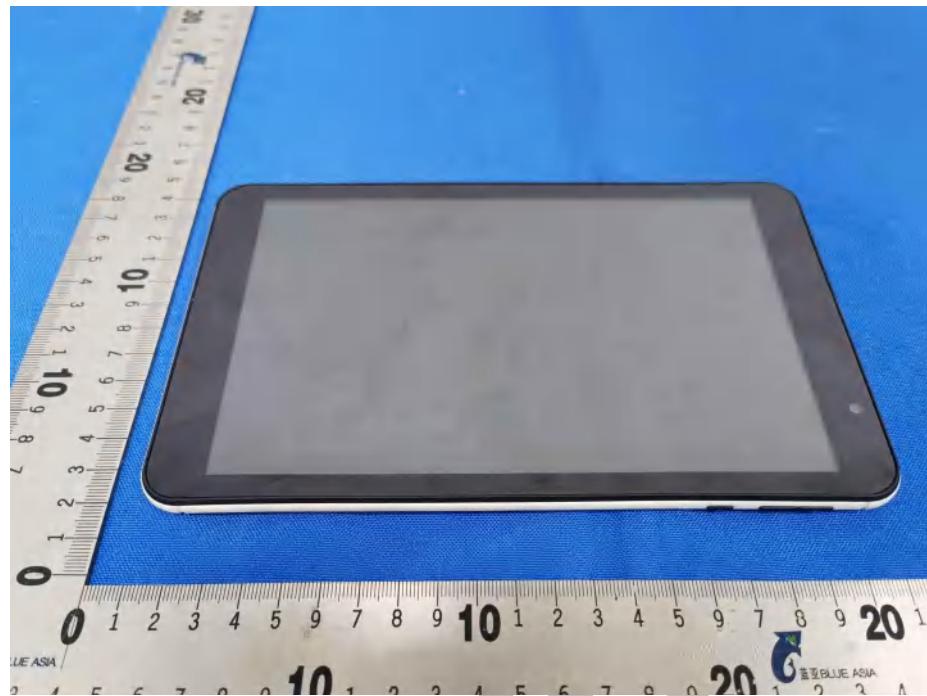


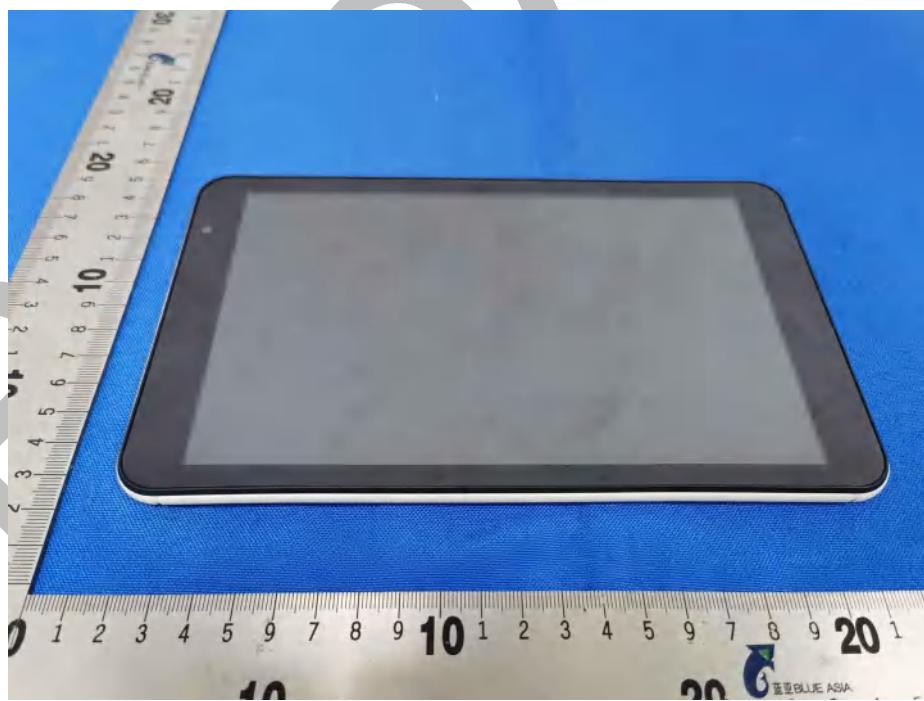
Radiated Emissions which fall in the restricted bands



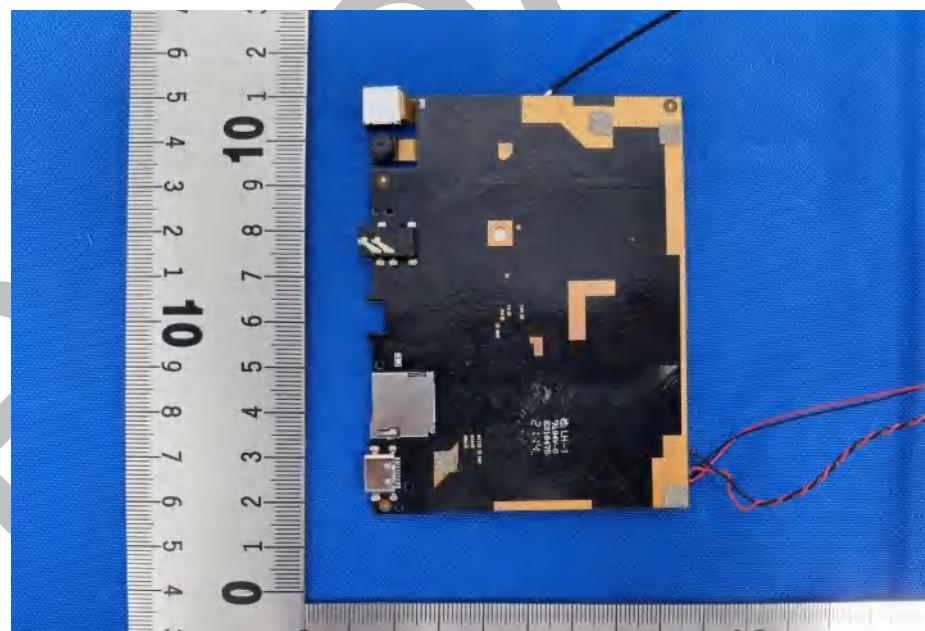
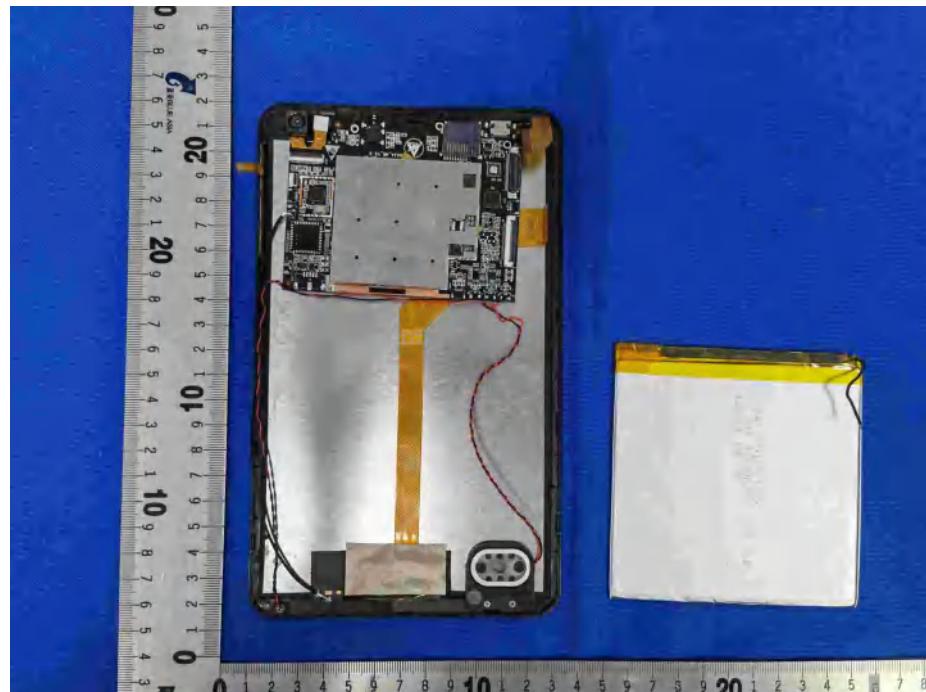
APPENDIX B: PHOTOGRAPHS OF EUT

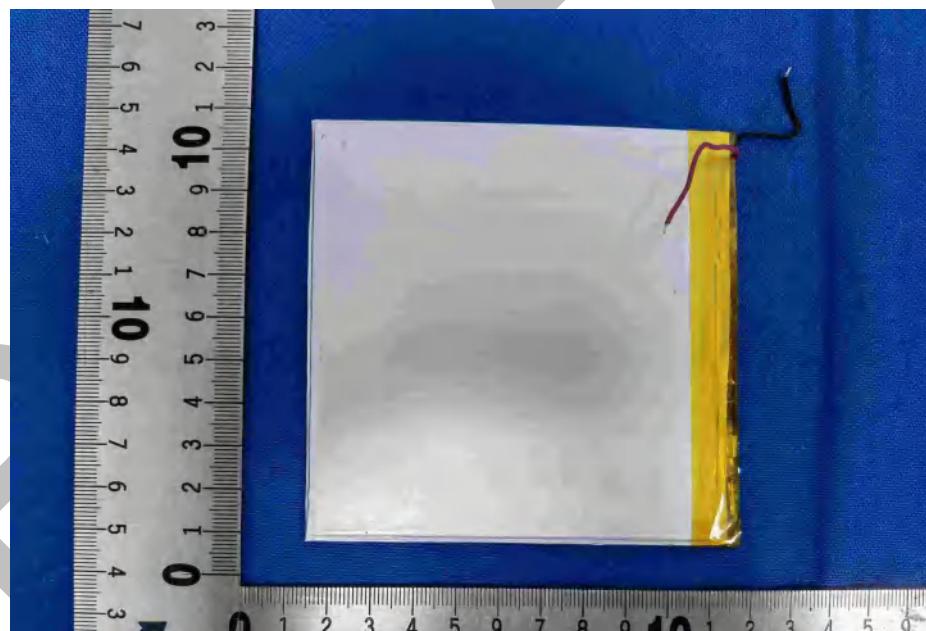
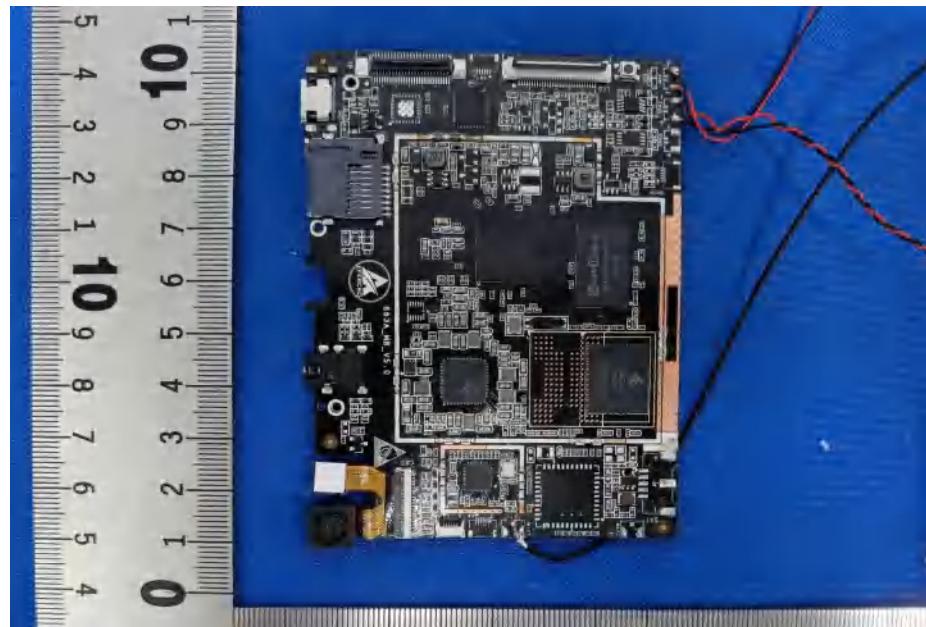


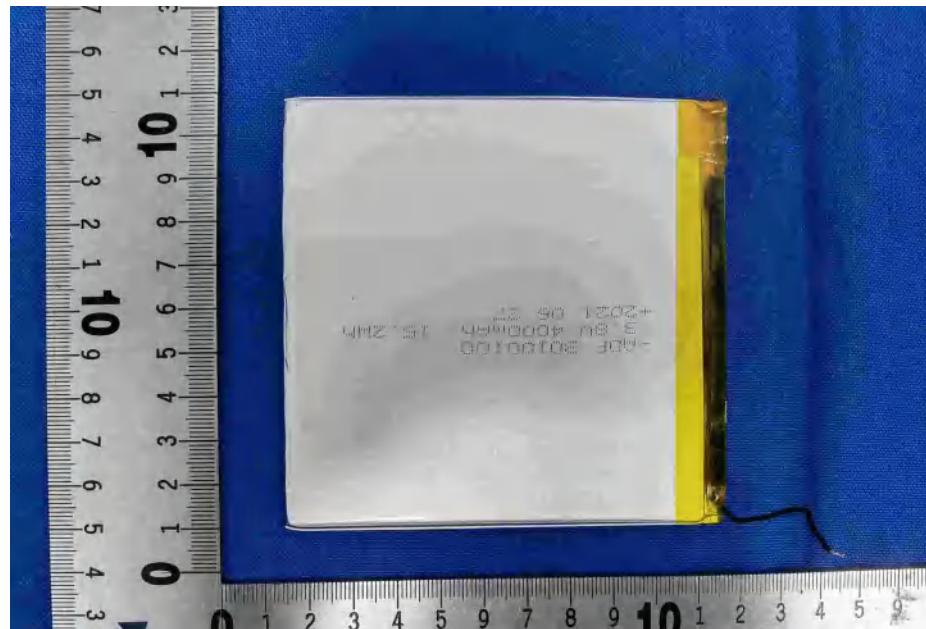












----END OF REPORT----

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.