

CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2 (DTS)

TEST REPORT

For

Firmware Upgrade Tool Kit

MODEL NUMBER: FSBOX-V4

Frademark: FS

REPORT NUMBER: E04A23060277F00601

ISSUE DATE: Jul 18, 2023

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Prepared for

FS.COM Inc.

380 Centerpoint Blvd, New Castle, DE 19720, United States

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	Jul 18, 2023	Initial Issue	Win

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Summary of Test Results				
Test Item	Clause	Limit/Requirement	Result	
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass	
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass	
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass	
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass	
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass	
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	Pass	
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass	
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass	

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C

ISED RSS-247 ISSUE 2 (DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: FS.COM Inc.

Address: 380 Centerpoint Blvd, New Castle, DE 19720, United States

Manufacturer Information

Company Name: FS.COM INC

Address: 380 Centerpoint Blvd, New Castle, DE 19720, United States

EUT Information

EUT Name: Firmware Upgrade Tool Kit

Model: FSBOX-V4
Sample Received Date: Jun 28, 2023
Sample Status: Normal

Sample ID: A23060277 003

Date of Tested: Jun 28, 2023 to Jul 18, 2023

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	Dana		
ISED RSS-247 ISSUE 2 (DTS)	Pass		

Prepared By:

Checked By:

San 2 Ge

Win Huang

Project Engineer

General Manager

Alan He

Manager

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2 (DTS), SS

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 6947.01)
	Guangdong Global Testing Technology Co., Ltd.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1343)
	Guangdong Global Testing Technology Co., Ltd.
	has been recognized to perform compliance testing on equipment
Accreditation Certificate	subject to Supplier's Declaration of Conformity (SDoC) and
	Certification rules
	ISED (Company No.: 30714)
	Guangdong Global Testing Technology Co., Ltd.
	has been registered and fully described in a report filed with ISED.
	The Company Number is 30714 and the test lab Conformity
	Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	К	U(dB)
AC Power Line Conducted	0.009 MHz ~ 0.15 MHz	2	4.00
Emission	0.15 MHz ~ 30 MHz	2	3.62
	9kHz ~ 30MHz	2	2.20
Radiated Band edge and	30 MHz ~ 1 GHz	2	3.16
Spurious Emission	1 GHz ~ 18 GHz	2	5.64
	18 GHz ~ 26.5 GHz	2	5.54
Conducted Output Power	1	2	0.73
6dB Bandwidth and 99% Occupied Bandwidth	1	2	9.2ppm
Power Spectral Density	1	2	1.84
	9kHz ~ 30MHz	2	0.95
Conducted Band edge and	30 MHz ~ 1 GHz	2	1.49
spurious emission	1 GHz ~ 18 GHz	2	1.75
	18 GHz ~ 26.5 GHz	2	2.06

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Firmware Upgrade Tool Kit
Model		FSBOX-V4
Hardware Version		4.0
Software Version		4.0.0.1
Ratings		DC 5V 1A
Power Supply	DC	5V
	Battery	DC 3.7V, 3200mAh

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth 5.1
Bluetooth Mode:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Maximum Peak Power:	1.55dBm
Antenna Type:	PCB Antenna
Antenna Gain:	2.42dBi
Normal Test Voltage:	5Vdc
EUT Test software:	Modem Test.exe

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478
6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	1	1
8	2418	19	2440	30	2462	1	1
9	2420	20	2442	31	2464	1	1
10	2422	21	2444	32	2468	1	1

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5.3. MAXIMUM AVERAGE EIRP

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)	Maximum EIRP (dBm)
LE 1M	2402 ~ 2480	0-39[40]	1.55	3.97

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
LE 1M	CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel)	2402 MHz, 2440 MHz, 2480 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The	The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band					
Test Software Version Modem Test.exe						
Modulation	Transmit	Test Software setting value				
Туре	Antenna Number	CH 0	CH 19	CH 39		
GFSK(1Mbps)	1	default	default	default		

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PCB	2.42

Test Mode	Transmit and Receive Mode	Description
LE 1M	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
Note:		

5.7. SUPPORT UNITS FOR SYSTEM TEST

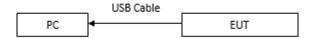
The EUT has been tested as an independent unit

Equipment	Manufacturer	Model No.
Firmware Upgrade Tool Kit	FS.COM Inc.	FSBOX-V4
PC	Lenovo	T14

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5.8. SETUP DIAGRAM

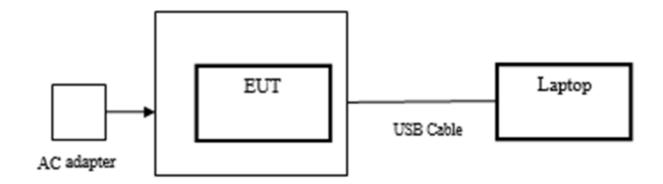
Radiated emissions:



Conducted:



AC Power Line Conducted Emission:



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6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2023/09/18	2024/09/17
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2023/09/18	2024/09/17
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2023/03/16	2024/03/15
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2023/09/18	2024/09/17
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2023/03/16	2024/03/15
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2023/09/18	2024/09/17
temperature humidity chamber	Espec	SH-241	SH-241-2014	2023/09/18	2024/09/17
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A
	Test Equipm	ent of Radiated	emissions below 10	GHz	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2023/09/18	2024/09/17
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/09/18	2024/09/17
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A
	Test Equipm	ent of Radiated	emissions above 1	GHz	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2023/09/18	2024/09/17
Pre-Amplifier	A-INFO	HPA-1G1850	HYPA21003	2023/09/18	2024/09/17
Horn antenna	A-INFO	3117	246069	2023/09/18	2024/09/17
Pre-Amplifier	ZKJC	HPA-184057	HYPA21004	2023/09/18	2024/09/17
Horn antenna	ZKJC	3116C	246265	2023/09/18	2024/09/17
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A
Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date

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Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2023/09/18	2024/09/17
LISN/AMN	Rohde & Schwarz	ENV216	102843	2023/09/18	2024/09/17
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/03/30	2024/03/29
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

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7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the Spectrum Analyzer (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST ENVIRONMENT

Temperature	24℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

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7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2				
Section	Test Item	Limit	Frequency Range (MHz)	
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5	
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
IRRW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
IV/R\//	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and 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.

TEST ENVIRONMENT

Temperature	24℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

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TEST RESULTS

Please refer to section "Test Data" - Appendix B

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7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST ENVIRONMENT

Temperature	24 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

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7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2		
Section Test Item Limit		
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

1209U	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST ENVIRONMENT

Temperature	24 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

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TEST RESULTS

Please refer to section "Test Data" - Appendix B

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7.5. DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST ENVIRONMENT

Temperature	24 ℃	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range	Field Strength Limit	Field Stren	gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
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	

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

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ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
8.215 - 6.218	608 - 614	23.6 - 24.0
8.28775 - 6.26825	960 - 1427	31.2 - 31.8
8.31175 - 8.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1648.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		
	ds listed in table 7 and in bands above 38.6	

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6c

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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

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2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

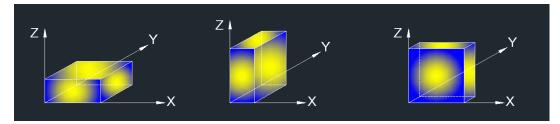
Above 1G
The setting of the spectrum analyser

RBW	1 MHz
1VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

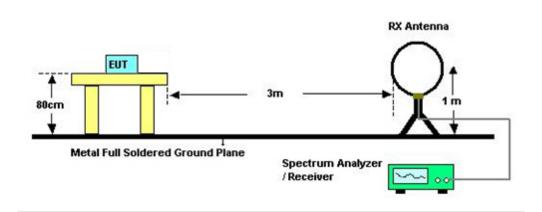
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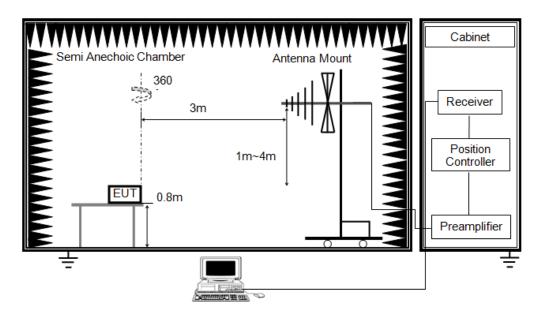
X axis, Y axis, Z axis positions:



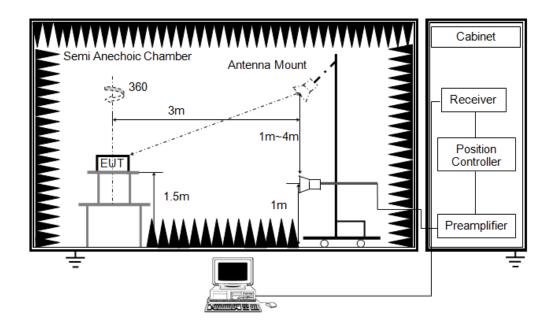
Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP





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TEST ENVIRONMENT

Temperature	24.3℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

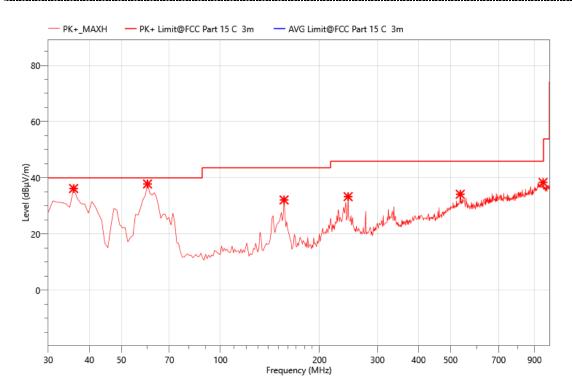
TEST RESULTS

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Radiated Spurious Emission : The data of the mode (2402MHz) are recorded in the following pages.

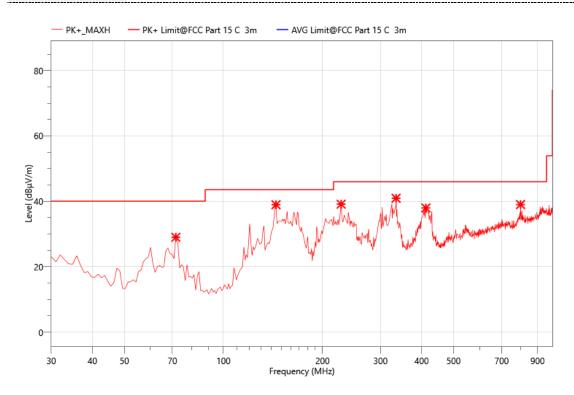
The worst result as bellow:

Mode:	BLE 2402
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3℃/53%/101Kpa



No.	Freq.	Reading	Meas.	Limit	Margin	Det.	Height	Pol.	Azimuth	Corr.
NO.	(MHz)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Det.	(cm)	roi.	(deg)	(dB)
1	35.820	44.03	36.18	40.00	3.82	PK+	100	>	0	-7.85
2	60.070	52.11	37.81	40.00	2.19	PK+	100	V	0	-14.3
3	156.100	42.08	32.12	43.50	11.38	PK+	100	V	0	-9.96
4	244.370	40.72	33.29	46.00	12.71	PK+	100	V	0	-7.43
5	535.370	31.76	34.15	46.00	11.85	PK+	100	V	0	2.39
6	955.380	28.56	38.34	46.00	7.66	PK+	100	V	0	9.78

Mode:	BLE 2402
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°C/53%/101Kpa



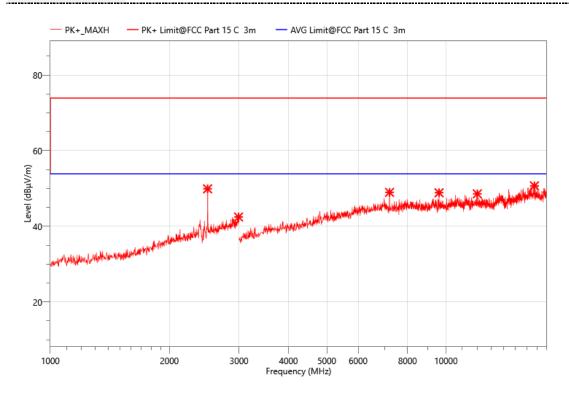
No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	71.710	43.86	29.01	40.00	10.99	PK+	100.0	Ι	-0.0	-14.85
2	144.460	51.19	38.96	43.50	4.54	PK+	100.0	Η	-0.0	-12.23
3	227.880	47.55	39.13	46.00	6.87	PK+	100.0	Н	-0.0	-8.42
4	334.580	45.96	40.94	46.00	5.06	PK+	100.0	Н	-0.0	-5.02
5	412.180	39.26	37.98	46.00	8.02	PK+	100.0	Н	-0.0	-1.28
6	799.210	32.63	39.02	46.00	6.98	PK+	100.0	Н	-0.0	6.39

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor

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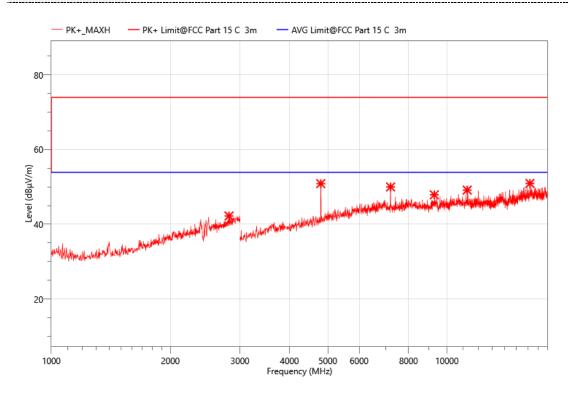
Above 1000MHz~10th Harmonics:

Mode:	BLE 2402
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3℃/53%/101Kpa



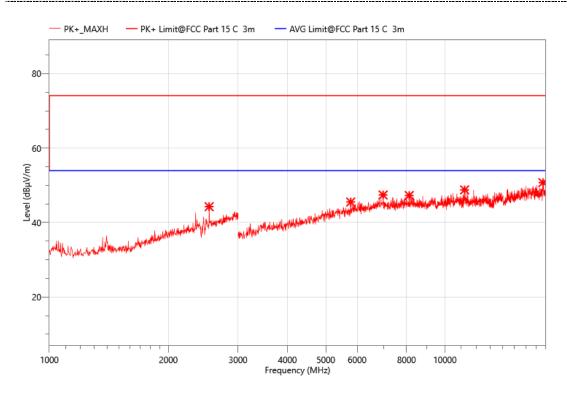
No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2498.000	61.06	49.93	74.00	24.07	PK+	150.0	Ι	-0.0	-11.13
2	2992.000	51.79	42.47	74.00	31.53	PK+	150.0	Ι	-0.0	-9.32
3	7205.000	52.32	48.98	74.00	25.02	PK+	150.0	Н	-0.0	-3.34
4	9610.000	50.18	48.88	74.00	25.12	PK+	150.0	Н	-0.0	-1.3
5	12010.000	48.29	48.60	74.00	25.40	PK+	150.0	Н	-0.0	0.31
6	16740.000	46.34	50.71	74.00	23.29	PK+	150.0	Н	-0.0	4.37

Mode:	BLE 2402
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°C/53%/101Kpa



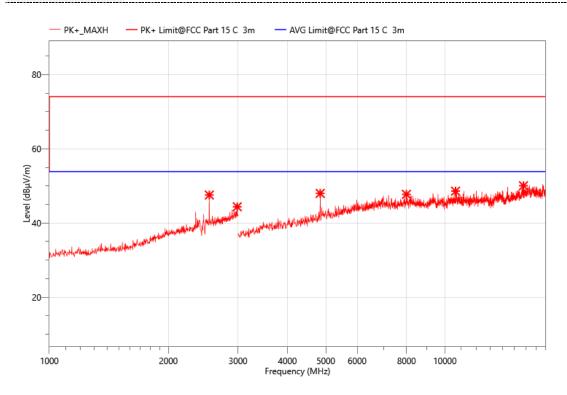
No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2814.000	52.88	42.22	74.00	31.78	PK+	150.0	V	-0.0	-
2	4800.000	60.60	50.88	74.00	23.12	PK+	150.0	٧	-0.0	-9.72
3	7205.000	53.33	49.99	74.00	24.01	PK+	150.0	V	-0.0	-3.34
4	9295.000	48.66	47.88	74.00	26.12	PK+	150.0	٧	-0.0	-0.78
5	11255.000	48.60	49.14	74.00	24.86	PK+	150.0	٧	-0.0	0.54
6	16215.000	46.64	50.92	74.00	23.08	PK+	150.0	V	-0.0	4.28

Mode:	BLE 2440
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3℃/53%/101Kpa



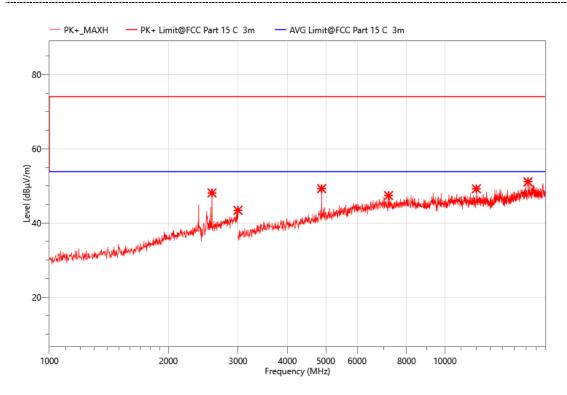
No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2536.000	56.70	44.26	74.00	29.74	PK+	150.0	V	-0.0	-12.44
2	5780.000	51.92	45.51	74.00	28.49	PK+	150.0	٧	-0.0	-6.41
3	6980.000	50.49	47.40	74.00	26.60	PK+	150.0	V	-0.0	-3.09
4	8125.000	49.37	47.26	74.00	26.74	PK+	150.0	٧	-0.0	-2.11
5	11215.000	48.50	48.77	74.00	25.23	PK+	150.0	>	-0.0	0.27
6	17695.000	45.88	50.71	74.00	23.29	PK+	150.0	٧	-0.0	4.83

Mode:	BLE 2440
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°C/53%/101Kpa



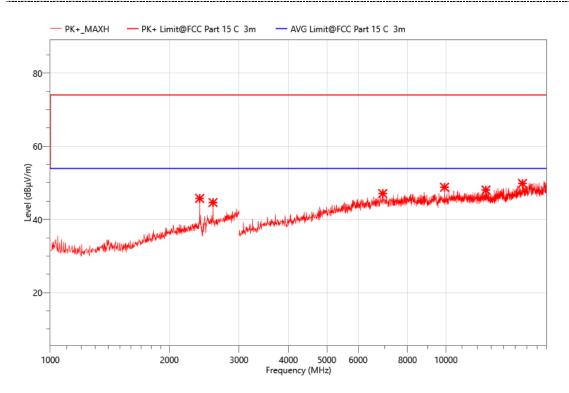
No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2538.000	59.94	47.55	74.00	26.45	PK+	150.0	Н	-0.0	-12.39
2	2986.000	53.71	44.38	74.00	29.62	PK+	150.0	Τ	-0.0	-9.33
3	4840.000	57.22	47.98	74.00	26.02	PK+	150.0	Н	-0.0	-9.24
4	7995.000	49.88	47.72	74.00	26.28	PK+	150.0	Τ	-0.0	-2.16
5	10640.000	48.91	48.59	74.00	25.41	PK+	150.0	Η	-0.0	-0.32
6	15800.000	47.11	50.05	74.00	23.95	PK+	150.0	Η	-0.0	2.94

Mode:	BLE 2480
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°C/53%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2578.000	59.43	48.11	74.00	25.89	PK+	150.0	Н	-0.0	-11.32
2	2998.000	52.76	43.42	74.00	30.58	PK+	150.0	Ι	-0.0	-9.34
3	4880.000	58.24	49.26	74.00	24.74	PK+	150.0	Η	-0.0	-8.98
4	7205.000	50.74	47.40	74.00	26.60	PK+	150.0	Ι	-0.0	-3.34
5	12010.000	48.91	49.22	74.00	24.78	PK+	150.0	Ι	-0.0	0.31
6	16220.000	46.84	51.10	74.00	22.90	PK+	150.0	Ι	-0.0	4.26

Mode:	BLE 2480
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°C/53%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2386.000	57.41	45.76	74.00	28.24	PK+	150.0	V	-0.0	-11.65
2	2578.000	55.95	44.63	74.00	29.37	PK+	150.0	٧	-0.0	-11.32
3	6925.000	50.73	47.09	74.00	26.91	PK+	150.0	٧	-0.0	-3.64
4	9920.000	50.21	48.80	74.00	25.20	PK+	150.0	٧	-0.0	-1.41
5	12625.000	47.55	48.04	74.00	25.96	PK+	150.0	>	-0.0	0.49
6	15615.000	47.38	49.85	74.00	24.15	PK+	150.0	>	-0.0	2.47

Other harmonics emissions are lower than 20dB below the allowable limit.

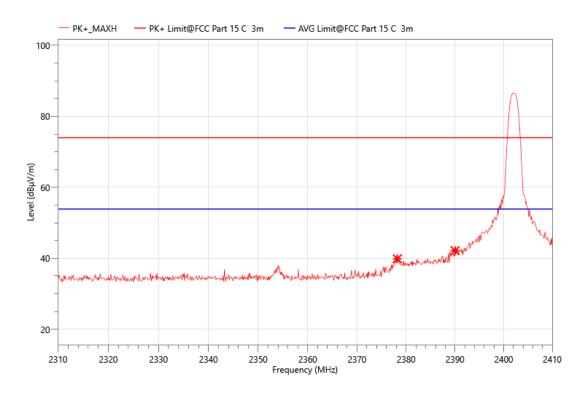
Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level+ Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) Measuring frequencies from 1GHz to 25GHz.

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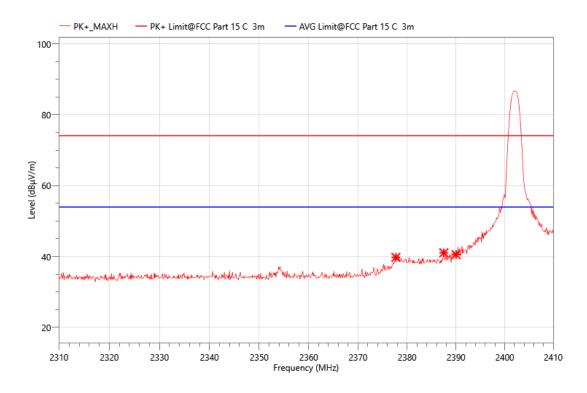
Band edge:

Mode:	BLE 2402
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3℃/53%/101Kpa



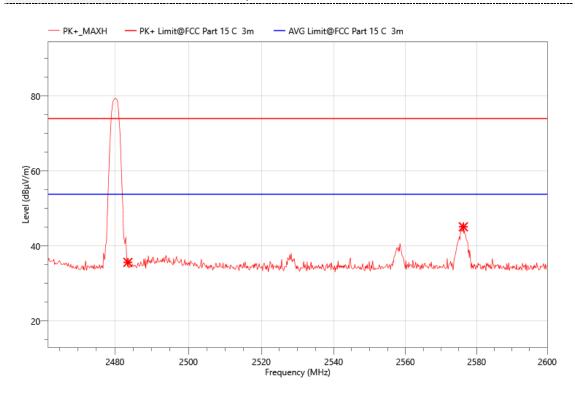
No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2378.200	61.01	39.89	74.00	34.11	PK+	150.0	V	-0.0	-21.12
2	2390.000	63.21	42.17	74.00	31.83	PK+	150.0	V	-0.0	-21.04

Mode:	BLE 2402
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°C/53%/101Kpa



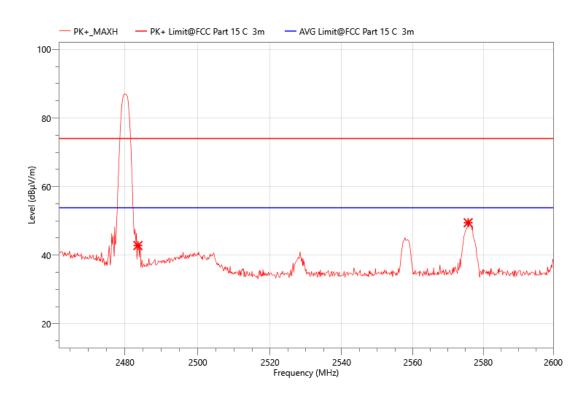
No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2377.700	60.88	39.76	74.00	34.24	PK+	150.0	Τ	-0.0	-21.12
2	2387.500	62.11	41.04	74.00	32.96	PK+	150.0	Ι	-0.0	-21.07
3	2390.000	61.58	40.54	74.00	33.46	PK+	150.0	Н	-0.0	-21.04

Mode:	BLE 2480
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°C/53%/101Kpa



I	No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
	1	2483.528	56.31	35.64	74.00	38.36	PK+	150.0	٧	-0.0	-20.67
	2	2576.264	65.26	45.13	74.00	28.87	PK+	150.0	V	-0.0	-20.13

Mode:	BLE 2480
Power:	DC5V
TE:	BIG
Date	2023/7/5
T/A/P	24.3°ℂ/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1	2483.528	63.48	42.81	74.00	31.19	PK+	150.0	Ι	-0.0	-20.67
2	2575.712	69.60	49.47	74.00	24.53	PK+	150.0	Ι	-0.0	-20.13

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9. ANTENNA REQUIREMENT

REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247 and RSS-Gen issue 5 6.8.

FCC part 15C section 15.247 and RSS 247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

DESCRIPTION

Pass

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10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

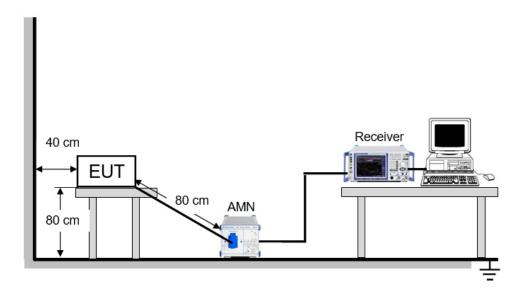
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



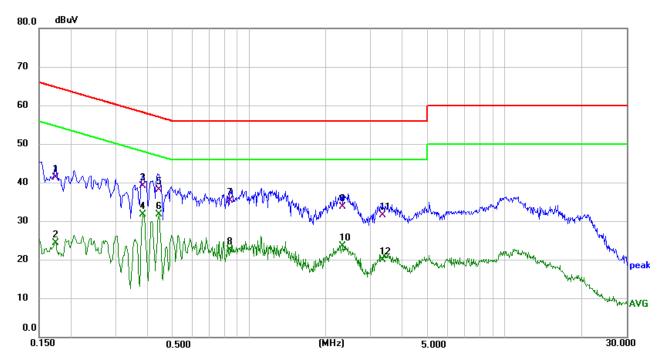
TEST ENVIRONMENT

Temperature	26℃	Relative Humidity	54.3%
Atmosphere Pressure	101kPa		

TEST RESULTS

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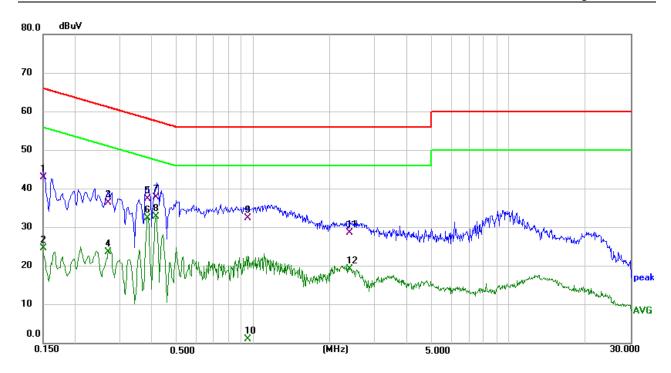


Site: Phase:L1 **Temperature(C):26(C)** Limit: FCC Part 15 B Conduction(QP) **Humidity(%):54.3% EUT:** Firmware Upgrade Tool Kit **Test Time:** 2023/6/25 20:18:24 M/N.: FS-BOX-V4 **Power Rating:** AC 120V/60Hz Mode: BLE 2402MHz **Test Engineer:** Vincent Note:

No.	Frequency	Reading	Factor	Measure-	Limit	Margin	Detector	Comment
	(MHz)	Level(dBuV)	(dB)	ment(dBuV)	(dBuV)	(dB)		
1	0.1740	30.79	10.66	41.45	64.77	-23.32	QP	
2	0.1740	13.73	10.66	24.39	54.77	-30.38	AVG	
3	0.3820	28.05	11.11	39.16	58.24	-19.08	QP	
4	0.3820	20.66	11.11	31.77	48.24	-16.47	AVG	
5	0.4420	26.89	11.24	38.13	57.02	-18.89	QP	
6 *	0.4420	20.59	11.24	31.83	47.02	-15.19	AVG	
7	0.8420	25.03	10.37	35.40	56.00	-20.60	QP	
8	0.8420	12.27	10.37	22.64	46.00	-23.36	AVG	
9	2.3260	23.36	10.42	33.78	56.00	-22.22	QP	
10	2.3260	13.19	10.42	23.61	46.00	-22.39	AVG	
11	3.3180	21.17	10.44	31.61	56.00	-24.39	QP	
12	3.3180	9.66	10.44	20.10	46.00	-25.90	AVG	

^{*:}Maximum data x:Over limit !:over margin

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Phase:N Site: **Temperature(C):26(C)** Humidity(%):54.3% Limit: FCC Part 15 B Conduction(QP) Firmware Upgrade Tool Kit 2023/6/25 20:20:42 EUT: **Test Time:** M/N.: FS-BOX-V4 **Power Rating:** AC 120V/60Hz BLE 2402MHz Mode: **Test Engineer:** Vincent Note:

No.	Frequency	Reading	Factor	Measure-	Limit	Margin	Detector	Comment
	(MHz)	Level(dBuV)	(dB)	ment(dBuV)	(dBuV)	(dB)		
1	0.1500	32.45	10.55	43.00	66.00	-23.00	QP	
2	0.1500	14.04	10.55	24.59	56.00	-31.41	AVG	
3	0.2700	25.54	10.80	36.34	61.12	-24.78	QP	
4	0.2700	12.81	10.80	23.61	51.12	-27.51	AVG	
5	0.3850	26.32	11.05	37.37	58.17	-20.80	QP	
6	0.3850	21.44	11.05	32.49	48.17	-15.68	AVG	
7	0.4140	26.76	11.09	37.85	57.57	-19.72	QP	
8 *	0.4140	21.69	11.09	32.78	47.57	-14.79	AVG	
9	0.9580	22.14	10.32	32.46	56.00	-23.54	QP	
10	0.9580	-9.32	10.32	1.00	46.00	-45.00	AVG	
11	2.3820	18.35	10.35	28.70	56.00	-27.30	QP	
12	2.3820	8.92	10.35	19.27	46.00	-26.73	AVG	

^{*:}Maximum data x:Over limit !:over margin

Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.
- 5. All the modes have been tested, only the worst data was recorded in the report.

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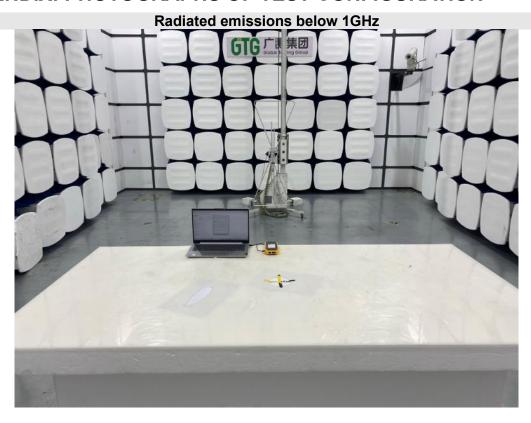
11. TEST DATA

Please refer to section "Test Data" - Appendix B

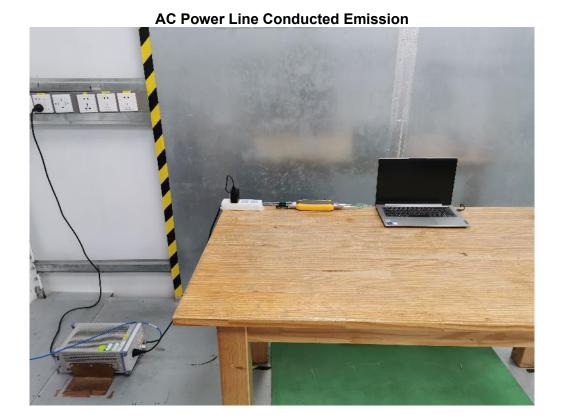
TRF No.: 04-E001-1A

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APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION







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APPENDIX: PHOTOGRAPHS OF THE EUT























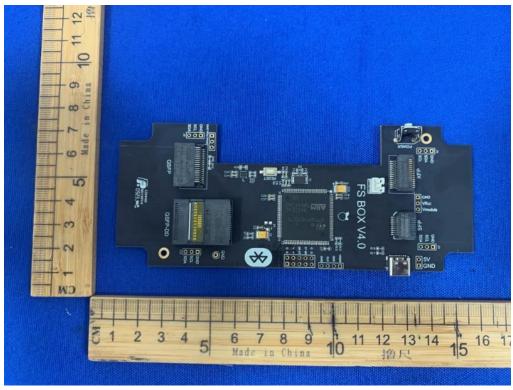




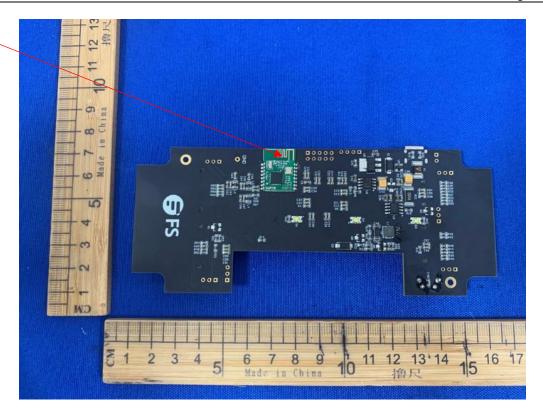


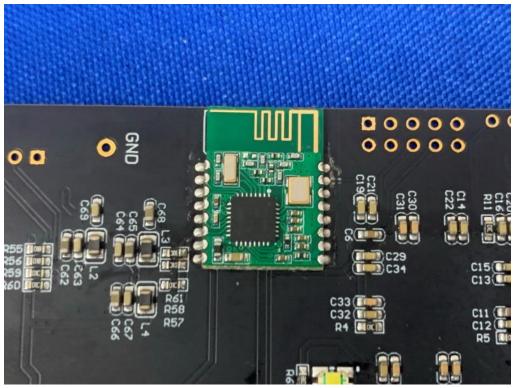






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END OF REPORT