

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Funai Electric R & D (Shenzhen) Co., Ltd.

WiFi module

U9W42 Y

FCC ID: 2AU3BU9W42

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Report Number : ACS-F20001-1
Date of Test : Nov.28~Dec.03,2020
Date of Report : Jan.15,2021

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	5
1.1. Description of Standards and Results	5
2. GENERAL INFORMATION.....	6
2.1. Description of Equipment Under Test	6
2.2. Feature of Equipment Under Test	7
2.3. Tested Supporting System Details	8
2.4. Block Diagram of connection between EUT and simulators	8
2.5. Test information	8
2.6. Test Facility	9
2.7. Measurement Uncertainty (95% confidence levels, k=2)	9
3. POWER LINE CONDUCTED EMISSION TEST	10
3.1. Test Equipments	10
3.2. Block Diagram of Test Setup	10
3.3. Power Line Conducted Emission Test Limits	10
3.4. Configuration of EUT on Test	10
3.5. Operating Condition of EUT	11
3.6. Test Procedure	11
3.7. Power Line Conducted Emission Test Results	11
4. RADIATED EMISSION MEASUREMENT	14
4.1. Test Equipment	14
4.2. Block Diagram of Test Setup	15
4.3. Radiated Emission Limit Standard:	16
4.4. EUT Configuration on Test	16
4.5. Operating Condition of EUT	16
4.6. Test Procedure	16
4.7. Radiated Emission Test Results	17
5. MAXIMUM PEAK OUTPUT POWER TEST	56
5.1. Test Equipment	56
5.2. Limit	56
5.3. Test Procedure	56
5.4. Test Results	56
6. BAND EDGE COMPLIANCE TEST.....	57
6.1. Test Equipment	57
6.2. Limit	57
6.3. Test Produce	57
6.4. Test Results	57
7. ANTENNA REQUIREMENT	66
7.1. Standard Applicable	66
7.2. Antenna Connected Construction	66
8. DEVIATION TO TEST SPECIFICATIONS	67

Appendix A. Photograph of Test

Appendix B. Photo of the EUT

TEST REPORT CERTIFICATION

Applicant : Funai Electric R & D (Shenzhen) Co., Ltd.
Manufacturer : Funai Electric R & D (Shenzhen) Co., Ltd.
Product : WiFi module
FCC ID : 2AU3BU9W42
(A) Model No. : U9W42 Y
(B) Test Voltage : DC 3.3V

Tested for comply with:
FCC CFR47 Part 15 Subpart C

Test procedure used:
ANSI C63.10: 2013

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1074. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Nov.28~Dec.03,2020 Report of date: Jan.15,2021

Prepared by : Brave Zhang Reviewed by : Sunny Lu
Brave Zhang / Assistant Sunny Lu / Deputy Manager

Approved & Authorized Signer :



REPORT REVISION HISTORY

Edition No.	Revision	Issue Data	Report No.
Original	Initial issue of report	Mar.31,2020	ACS-F20001
Rev.01	1. Change internal SMT antenna(Bluetooth Antenna) to external antenna; 2. Change the model no. from U9W42 to U9W42 Y.	Jan.15,2021	ACS-F20001-1

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 2013	PASS
Radiated Emission Test	FCC Part 15 15.209 FCC Part 15 15.205 FCC Part 15 15.247(d) ANSI C63.10 2013	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(d) ANSI C63.10 2013	N/A
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 2013	N/A
20dB & 99% Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 2013	N/A
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 2013	N/A
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 2013	N/A
Maximum Peak Output Power Test	FCC Part 15 15.247(b)(1) ANSI C63.10 2013	PASS
Band Edge Compliance Test	FCC Part 15 15.247(d) ANSI C63.10 2013	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

Note: N/A means that the change of the Bluetooth antenna has no effect on the test item and does not need to be retested.

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	Funai Electric R & D (Shenzhen) Co., Ltd.
Applicant Address	B303 Technology Building II, 1057 Nanhai Road, Nanshan District, Shenzhen, China 518067
Manufacturer	Funai Electric R & D (Shenzhen) Co., Ltd.
Manufacturer Address	B303 Technology Building II, 1057 Nanhai Road, Nanshan District, Shenzhen, China 518067
Factory	Funai (Thailand) Company Limited
Factory Address	835 Moo18, Pakchong-Lumsompung Road, Tambon, Chantuek, Amphur Pakchong, Nakhon Ratchasima 30130, Thailand
Product	WiFi module
Model No.	U9W42 Y
FCC ID	2AU3BU9W42
Sample Type	Prototype production
Date of Receipt	Nov.18,2019
Date of Test	Nov.28~Dec.03,2020
Remark: This report only for Bluetooth V3.0+EDR.	

2.2. Feature of Equipment Under Test

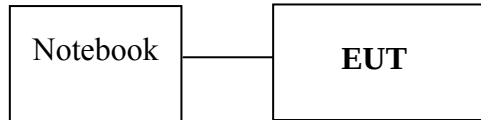
Product Feature & Specification		
Product	WiFi module	
Model No.	U9W42 Y	
Radio	IEEE802.11 a/b/g/n/ac; Bluetooth V3.0+EDR; Bluetooth V5.0	
Power Source	☐ Commercial Power	AC 100 ~ 240V
	☒ External Power Source	DC 3.3V
	☐ Lithium battery	DC V, mAh
	☐ UM battery	DC V
Bluetooth		
Bluetooth Version	V5.0 dual mode	
Frequency Range	2402-2480MHz	
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK	
Data Rate	1Mbps, 2Mbps, 3Mbps	
Quantity of Channels	79/40	
Channel Separation	1MHz/2MHz	
2.4GHz Wi-Fi		
Support Modes	802.11b/g/n20/n40	
Frequency Range	2412-2462MHz	
Type of Modulation	802.11b(DSSS): CCK, QPSK, BPSK; 802.11g/n(OFDM): 64QAM,16QAM, QPSK, BPSK	
Data Rate	802.11b: 1/2/5.5/11 Mbps; 802.11g: 6/9/12/18/24/36/48/54 Mbps; 802.11n: up to 300Mbps	
Channel Separation	5MHz	
5GHz Wi-Fi		
Support Modes	802.11a/n20/n40/ac20/ac40/ac80	
Frequency Range	5180-5240MHz, 5745-5825MHz	
Type of Modulation	802.11a/n (OFDM): QPSK, BPSK, 16QAM, 64QAM 802.11ac (OFDM): QPSK, BPSK, 16QAM, 64QAM,256QAM	
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps; 802.11n: up to 300Mbps; 802.11ac: up to 867Mbps	
Channel Separation	5MHz	

Antenna System	
Type of Antenna	Bluetooth: Multilayer Ceramic Antenna WIFI: PCB Antenna
Antenna Peak Gain	Bluetooth Peak Gain: -0.42dBi DTS Band (2400-2483.5MHz) Peak Gain: ANT A: -2.3dBi; ANT B: -1dBi. U-NII-1 Band(5150-5250MHz) Peak Gain: ANT A: 2.9dBi; ANT B: -3.8dBi. U-NII-3 Band (5725-5850MHz) Peak Gain: ANT A: -1.9dBi; ANT B: -4.5dBi.

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	acer	ZOW	NVX7C
	USB Cable: Shielded, Detachable, 1.0m				

2.4. Block Diagram of connection between EUT and simulators



(EUT: WiFi module)

2.5. Test information

A special software (WCN Combo Tool) was used to control EUT work in continuous TX mode

Tested mode, Packet Type, peak output power information			
Mode	Packet Type	Output power(dBm) P max	Output Power(dBm) P low
GFSK	DH1	8.281	7.286
	DH3		
	DH5		
$\pi/4$ DQPSK	2-DH1	7.125	6.974
	2-DH3		
	2-DH5		
8DPSK	3-DH1	11.394	10.581
	3-DH3		
	3-DH5		

$\pi/4$ DQPSK mode has been verified to have the lowest power, so the final test were performed with GFSK and 8DPSK mode, the worse-case packet type were:

GFSK Mode: DH5

8DPSK Mode: 3DH5

Item		Modulation	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge	GFSK	1Mbps	00/78
		8-DPSK	3Mbps	00/78
	Radiated Spurious Emission	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78
Conducted Test Case	20dB Bandwidth	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78
	Carrier Frequency Separation	GFSK	1Mbps	39
		8-DPSK	3Mbps	39
	Time of Occupancy	GFSK	1Mbps	39
		8-DPSK	3Mbps	39
	Number of Hopping Channels	GFSK	1Mbps	39
		8-DPSK	3Mbps	39
	Maximum Peak Output Power	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78
	Band Edges	GFSK	1Mbps	00/78
		8-DPSK	3Mbps	00/78
	Spurious Emission	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78

2.6. Test Facility

Site Description

Name of Firm	: Audix Technology (Shenzhen) Co., Ltd. No. 6, Kefeng Road, Science & Technology Park, Nanshan District , Shenzhen, Guangdong, China
EMC Lab.	: Accredited by Industry Canada Registration Number: IC 5183A-1 Valid Date: Mar.31, 2021 Accredited by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.07, 2021 Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2021 Certificated by FCC USA. Designation No.: CN5022 Valid Date: Mar.31, 2021

2.7. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.6dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6dB(30~200MHz, Polarization: H)
	4.0dB(30~200MHz, Polarization: V)
	3.6dB(200M~1GHz, Polarization: H)
	3.8dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	4.6dB(1~6GHz, Distance: 3m)
	4.6dB(6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.7dB(30MHz~1000MHz)
	3.3dB(1~26.5GHz)
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	1.9%
Uncertainty for test site temperature and humidity	0.6℃
	3%

Note: EMI uncertainty is evaluated by CISPR16-4-2.

The value of measurement uncertainty of EMI is less than U_{CISPR} .

The value is not calculated in the test results.

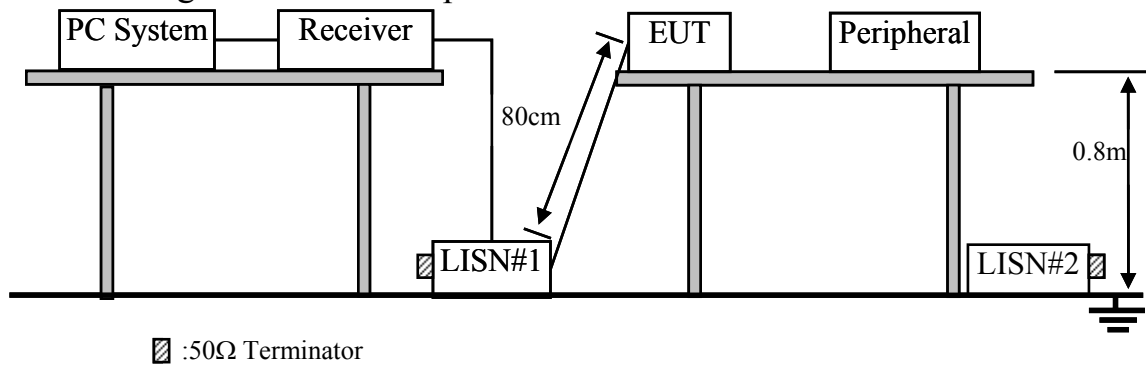
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	May.17,18	3 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.12,20	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Oct.11,20	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	Apr.12,20	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.12,20	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.12,20	1 Year
7.	RF Cable	EMCI	EMCCFD30 0-BM-NM-2 000	190422	Apr.12,20	1 Year
8.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. WiFi module (EUT)

Model No. : U9W42 Y

Serial No. : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown as Section 3.2.
- 3.5.2. Turn on the power of EUT.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

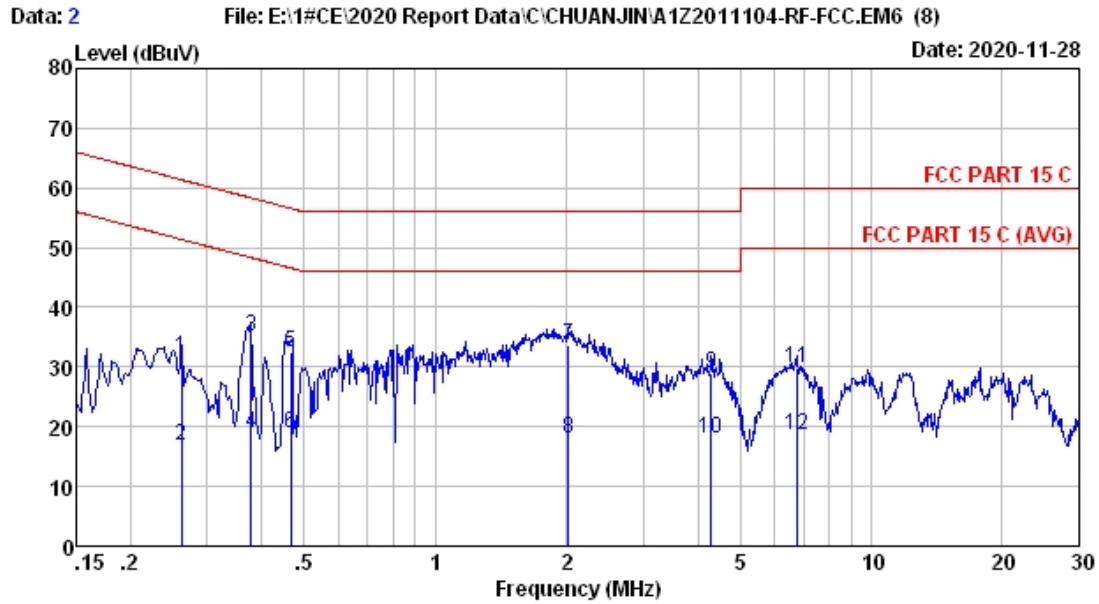
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via AC unit connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

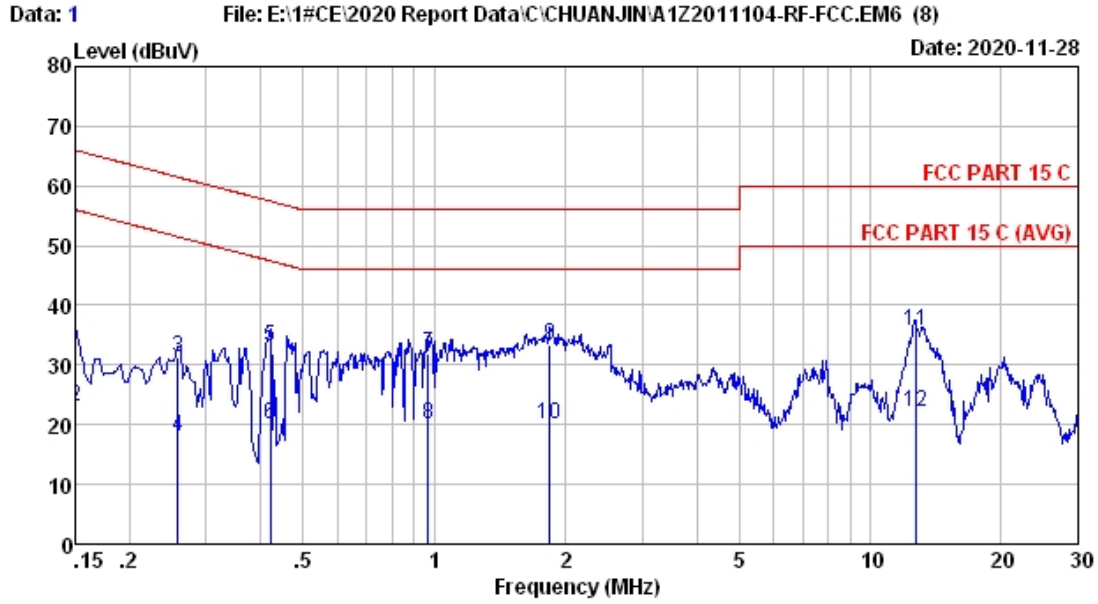
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1# Conduction Data No :2
 Dis./Lisn :2020 ENV216-L LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23.9°C Humi:46% Engineer :Evan
 EUT :
 Power Rating :DC 5V From Notebook Input AC 120V/60Hz
 Test Mode :BT3.0 Mode

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.262	9.70	0.01	21.95	31.66	61.38	29.72	QP
2	0.262	9.70	0.01	7.26	16.97	51.38	34.41	Average
3	0.377	9.70	0.01	25.45	35.16	58.34	23.18	QP
4	0.377	9.70	0.01	9.26	18.97	48.34	29.37	Average
5	0.466	9.70	0.01	22.74	32.45	56.58	24.13	QP
6	0.466	9.70	0.01	9.26	18.97	46.58	27.61	Average
7	2.023	9.70	0.03	23.87	33.60	56.00	22.40	QP
8	2.023	9.70	0.03	8.27	18.00	46.00	28.00	Average
9	4.292	9.70	0.04	19.20	28.94	56.00	27.06	QP
10	4.292	9.70	0.04	8.27	18.01	46.00	27.99	Average
11	6.733	9.70	0.05	20.15	29.90	60.00	30.10	QP
12	6.733	9.70	0.05	8.90	18.65	50.00	31.35	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1# Conduction Data No :1
 Dis./Lisn :2020 ENV216-N LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :Temp:23.9°C Humi:46% Engineer :Evan
 EUT :
 Power Rating :DC 5V From Notebook Input AC 120V/60Hz
 Test Mode :BT3.0 Mode

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.70	0.01	24.70	34.41	66.00	31.59	QP
2	0.150	9.70	0.01	13.26	22.97	56.00	33.03	Average
3	0.258	9.70	0.01	21.44	31.15	61.51	30.36	QP
4	0.258	9.70	0.01	8.27	17.98	51.51	33.53	Average
5	0.421	9.70	0.01	23.22	32.93	57.42	24.49	QP
6	0.421	9.70	0.01	10.27	19.98	47.42	27.44	Average
7	0.968	9.70	0.02	22.17	31.89	56.00	24.11	QP
8	0.968	9.70	0.02	10.30	20.02	46.00	25.98	Average
9	1.839	9.70	0.03	23.49	33.22	56.00	22.78	QP
10	1.839	9.70	0.03	10.26	19.99	46.00	26.01	Average
11	12.716	9.80	0.07	25.76	35.63	60.00	24.37	QP
12	12.716	9.80	0.07	12.26	22.13	50.00	27.87	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(NSA)	AUDIX	N/A	N/A	May.03,20	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.11,20	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.12,20	1 Year
5.	Amplifier	HP	8447D	2648A04738	Apr.11,20	1 Year
6.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	710	Oct.19,20	1 Year
7.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.11,20	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.11,20	1 Year
9.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

Note: N/A means Not applicable.

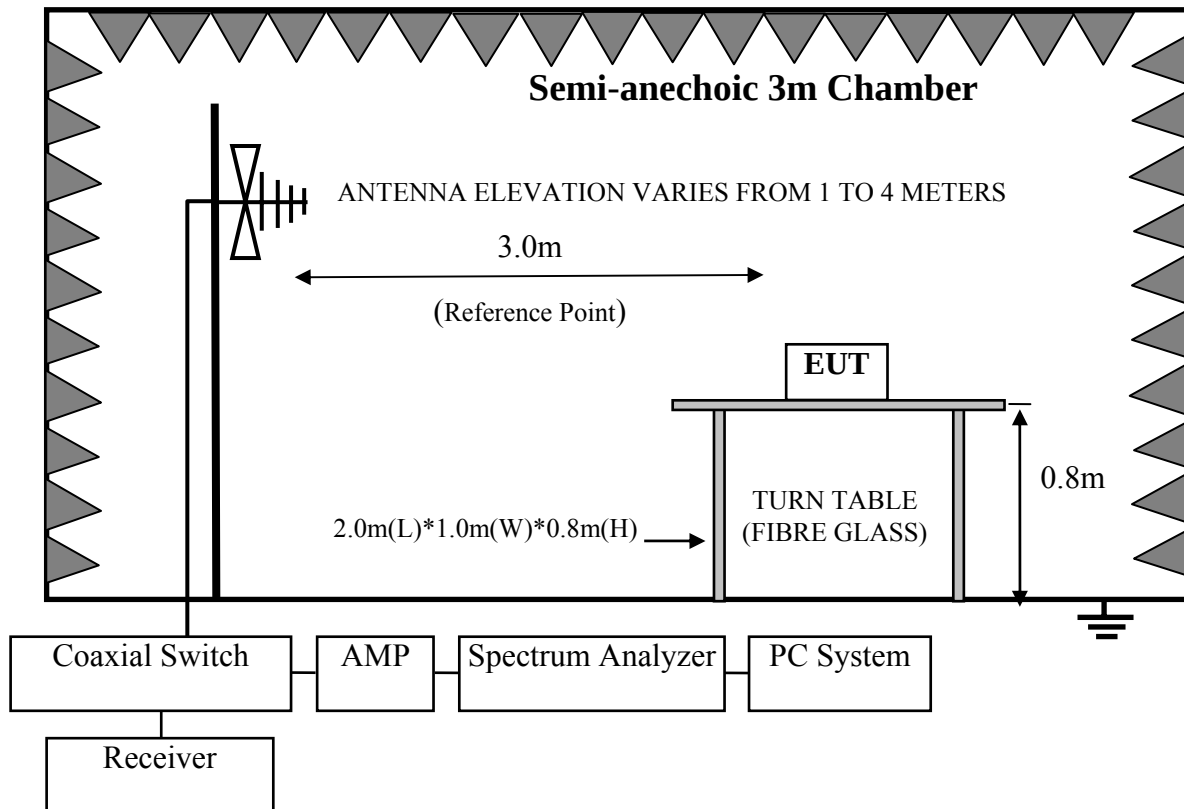
Frequency range: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(Svswr)	AUDIX	N/A	N/A	Apr.15,20	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.11,20	1 Year
4.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.30,20	1 Year
5.	Horn Antenna	ETS	3116	00062639	Aug.06,20	1 Year
6.	Amplifier	Agilent	83017A	MY53270084	Oct.11,20	1 Year
7.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.11,20	1 Year
8.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

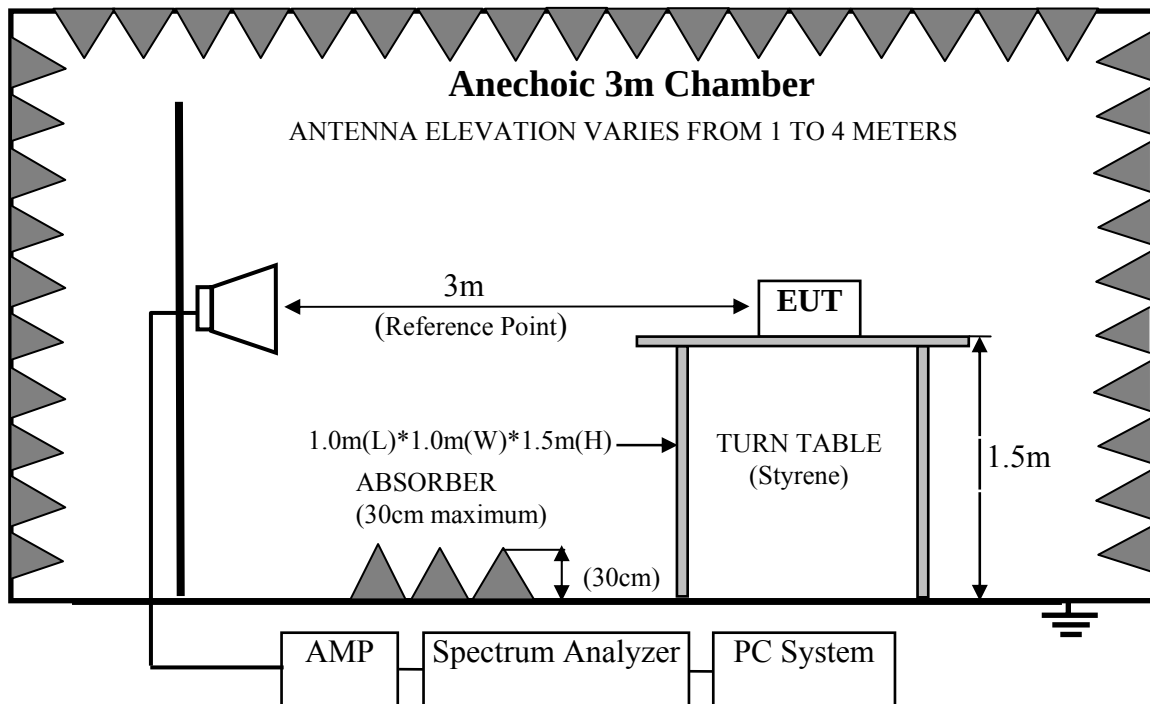
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range above 1GHz



4.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table 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.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. WiFi module (EUT)

Model Number : U9W42 Y
Serial Number : N/A

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3. Let EUT work in Tx mode.

4.6. Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7.Radiated Emission Test Results

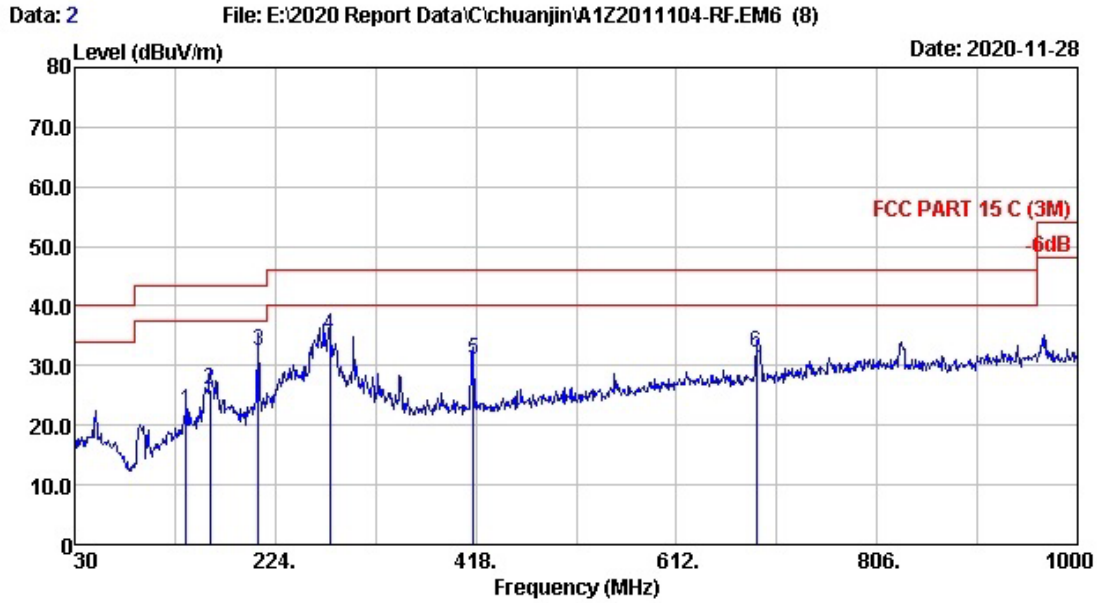
PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note 1: The duty cycle factor for calculate average level is -24.495dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Note 2: The emissions (9kHz~30MHz) not reported for there is no emission be found.

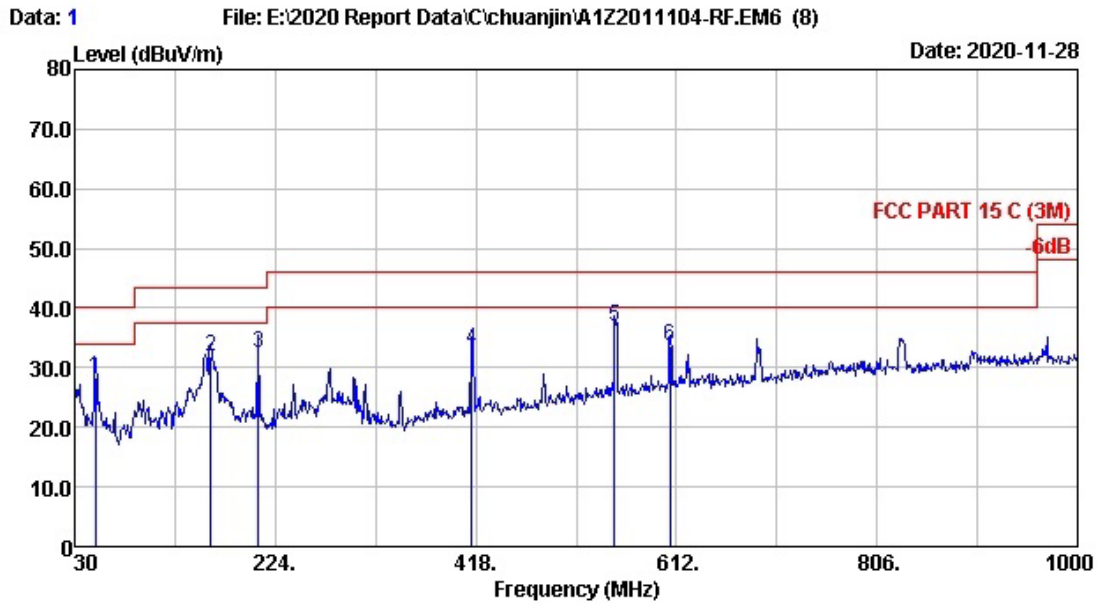
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2020 VULB9168-710 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.8°C/57% Engineer : The Shine
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	137.670	18.60	1.18	2.76	22.54	43.50	20.96	QP
2	160.950	19.10	1.29	5.73	26.12	43.50	17.38	QP
3	207.510	15.50	1.50	15.54	32.54	43.50	10.96	QP
4	276.380	18.44	1.66	15.06	35.16	46.00	10.84	QP
5	416.060	21.54	2.08	7.49	31.11	46.00	14.89	QP
6	689.600	26.40	2.78	3.09	32.27	46.00	13.73	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

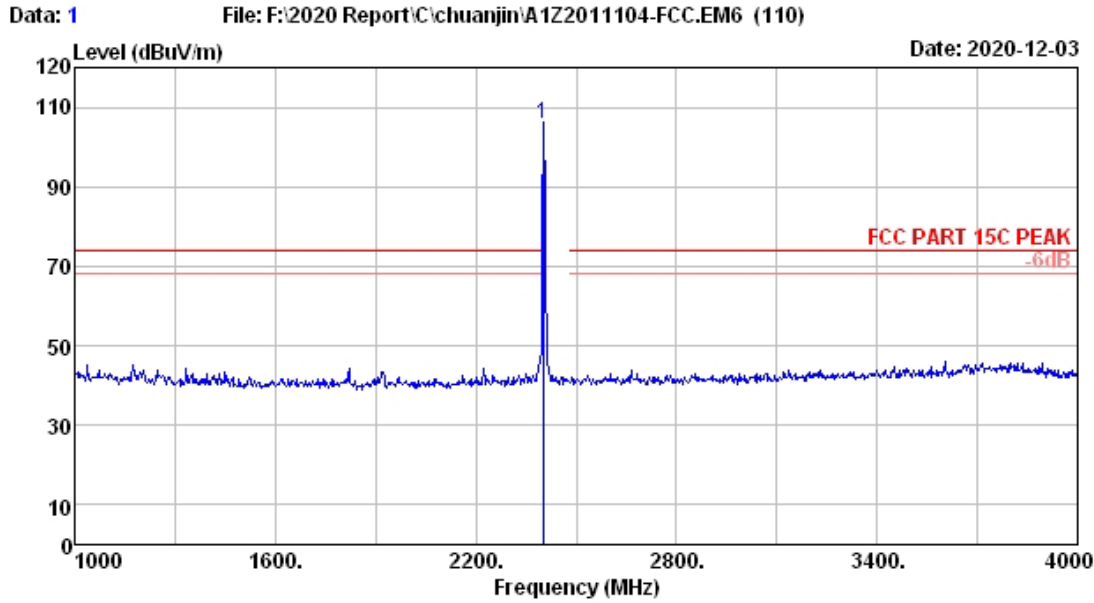


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2020 VULB9168-710 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.8°C/57% Engineer : The Shine
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	50.370	19.60	0.75	8.10	28.45	40.00	11.55	QP
2	161.920	19.10	1.29	11.47	31.86	43.50	11.64	QP
3	207.510	15.50	1.50	15.36	32.36	43.50	11.14	QP
4	414.120	21.48	2.07	9.47	33.02	46.00	12.98	QP
5	551.860	24.14	2.46	10.19	36.79	46.00	9.21	QP
6	606.180	25.36	2.58	5.59	33.53	46.00	12.47	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

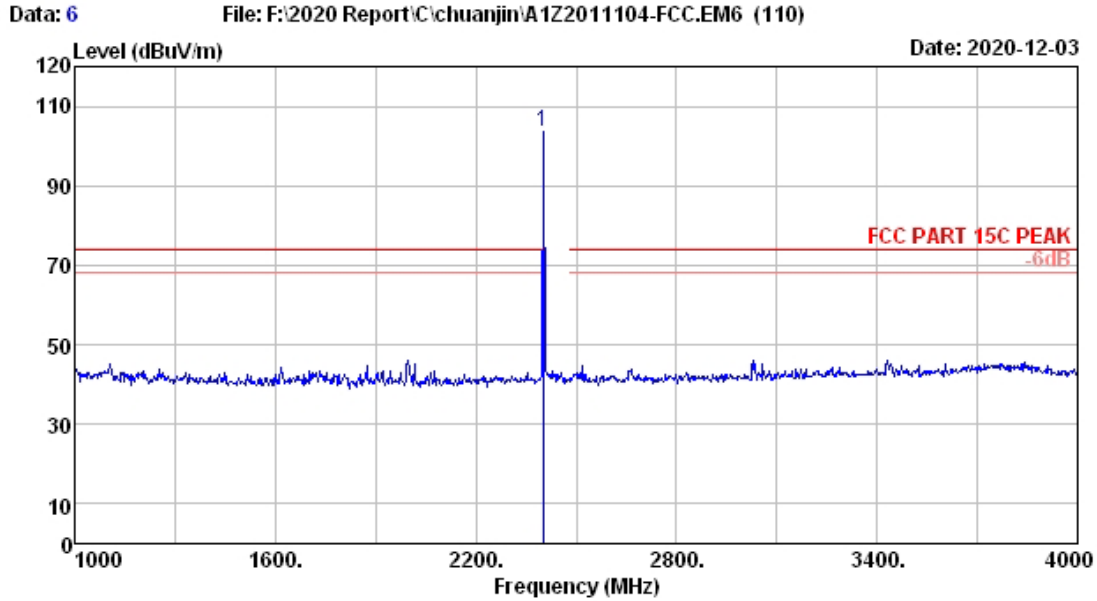
Frequency: 1GHz~18GHz



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2402MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.01	0.92	110.22	33.48	105.67	-----	-----	Peak

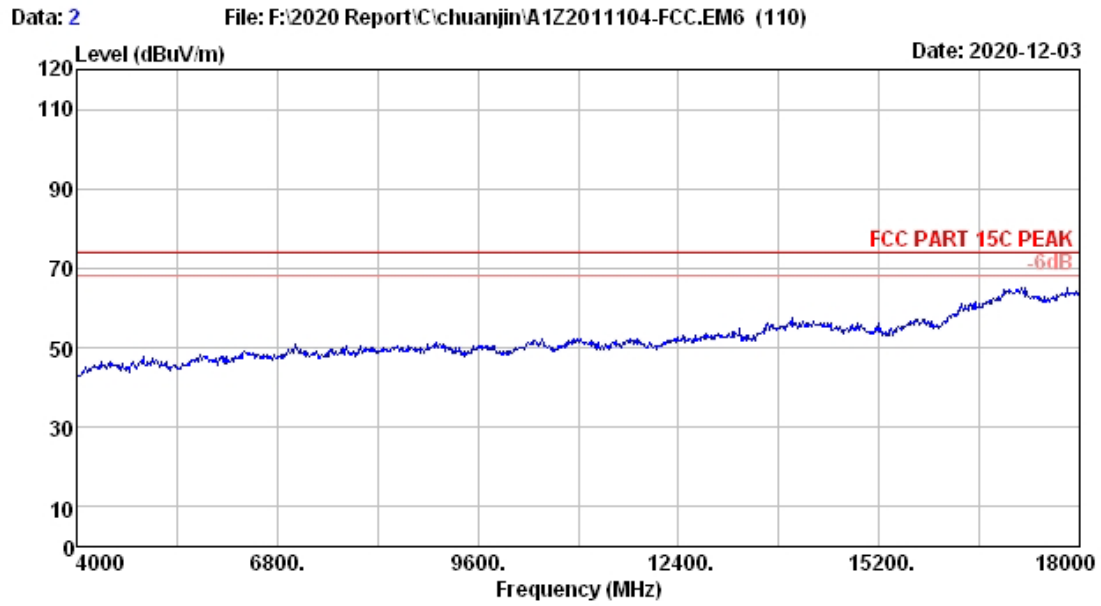
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



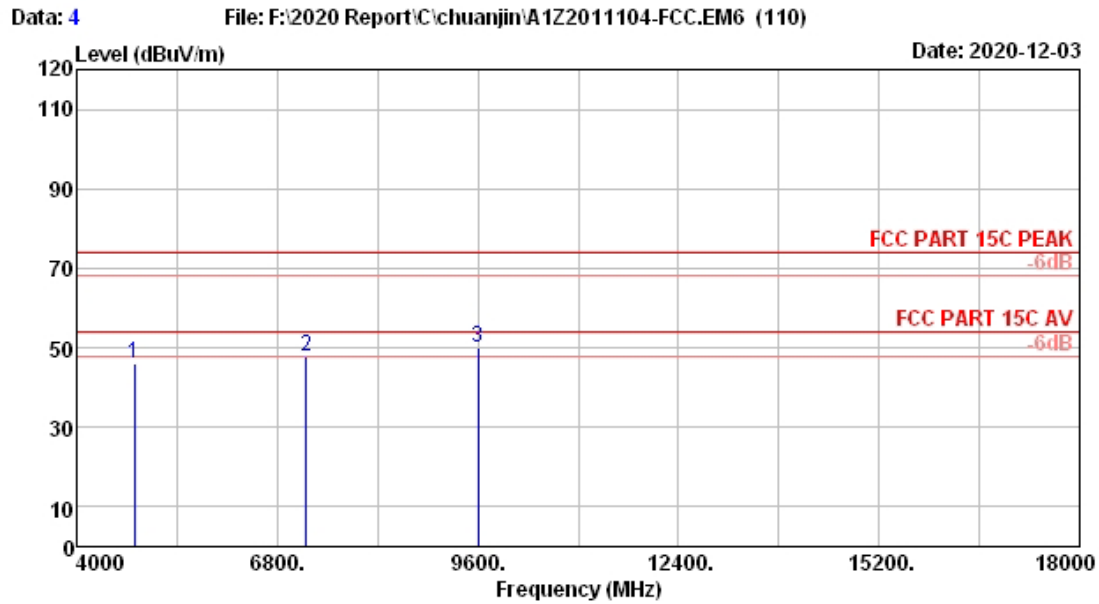
Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2402MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.01	0.92	108.38	33.48	103.83	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



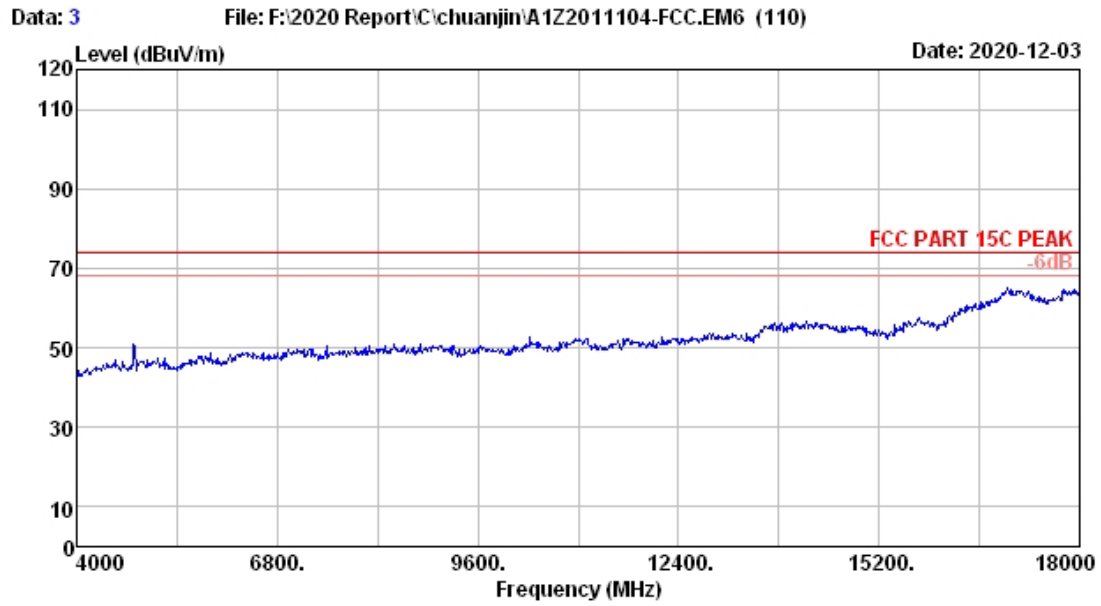
Site no.	: 3m Chamber	Data no.	: 2
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 GFSK 2402MHz TX Mode		
M/N	:		



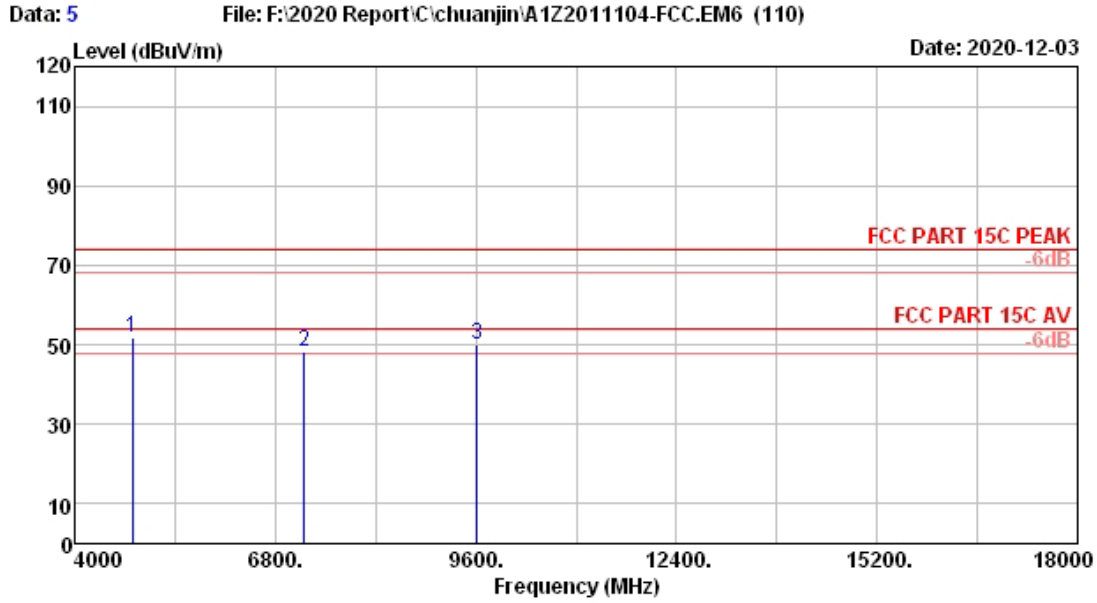
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2402MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.61	1.38	45.32	33.18	46.13	74.00	27.87	Peak
2	7206.00	36.50	1.92	42.54	33.02	47.94	74.00	26.06	Peak
3	9608.00	37.64	2.16	43.67	33.52	49.95	74.00	24.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



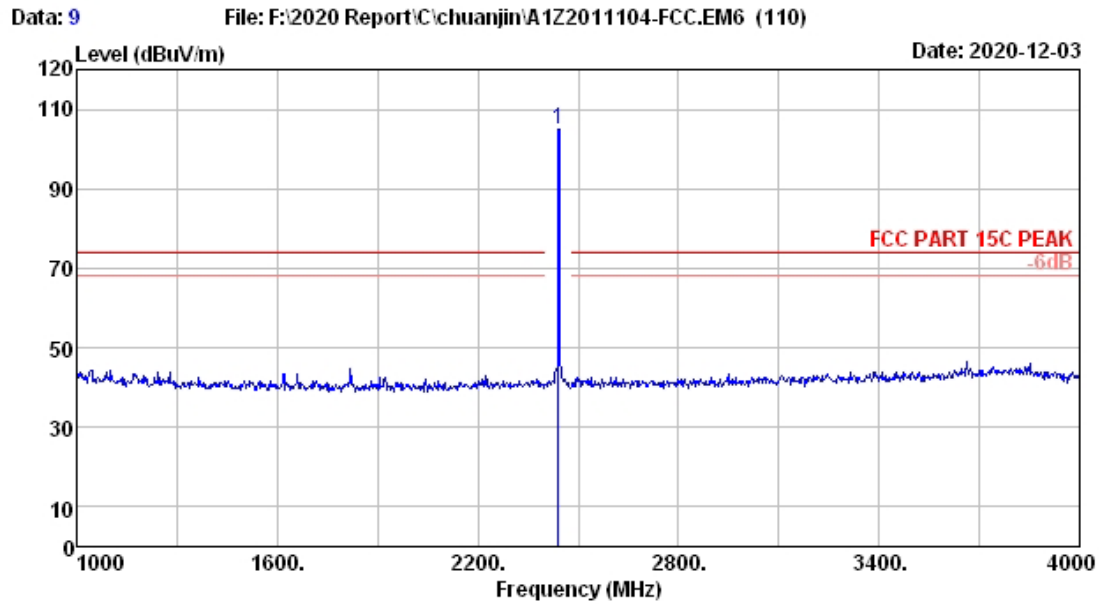
Site no.	: 3m Chamber	Data no.	: 3
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 GFSK 2402MHz TX Mode		
M/N	:		



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2402MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.61	1.38	50.99	33.18	51.80	74.00	22.20	Peak
2	7206.00	36.50	1.92	43.02	33.02	48.42	74.00	25.58	Peak
3	9614.00	37.65	2.16	43.84	33.52	50.13	74.00	23.87	Peak

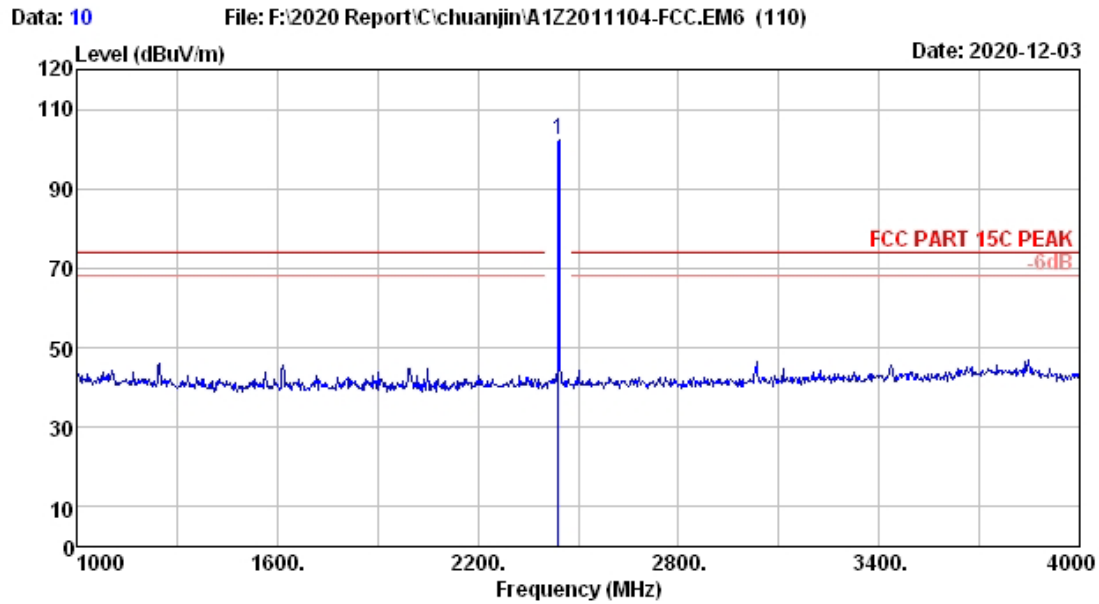
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2441MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.11	0.93	109.58	33.47	105.15	-----	-----	Peak

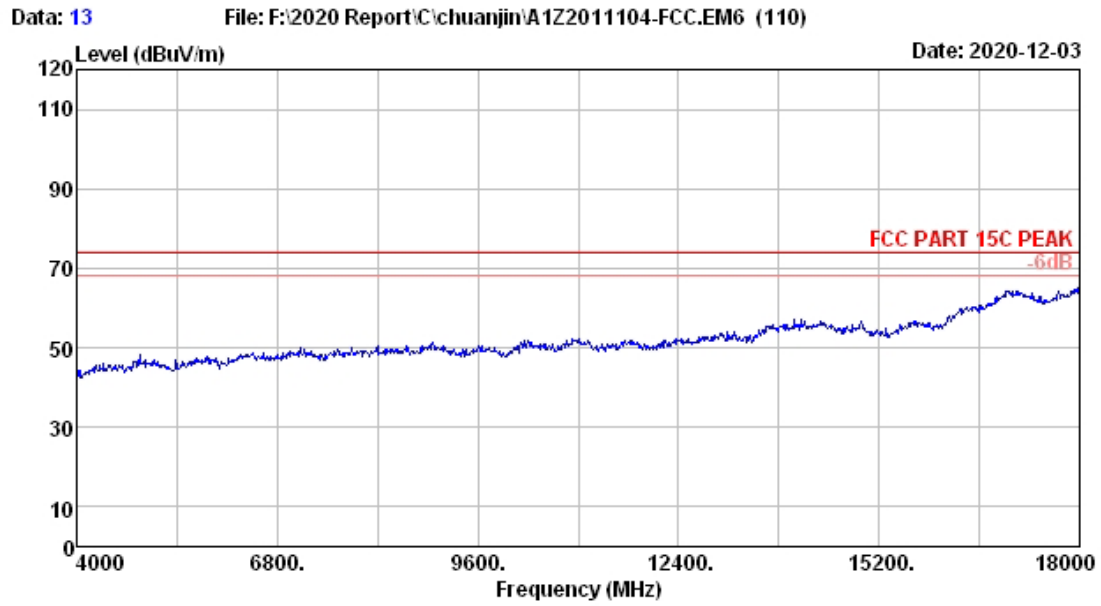
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



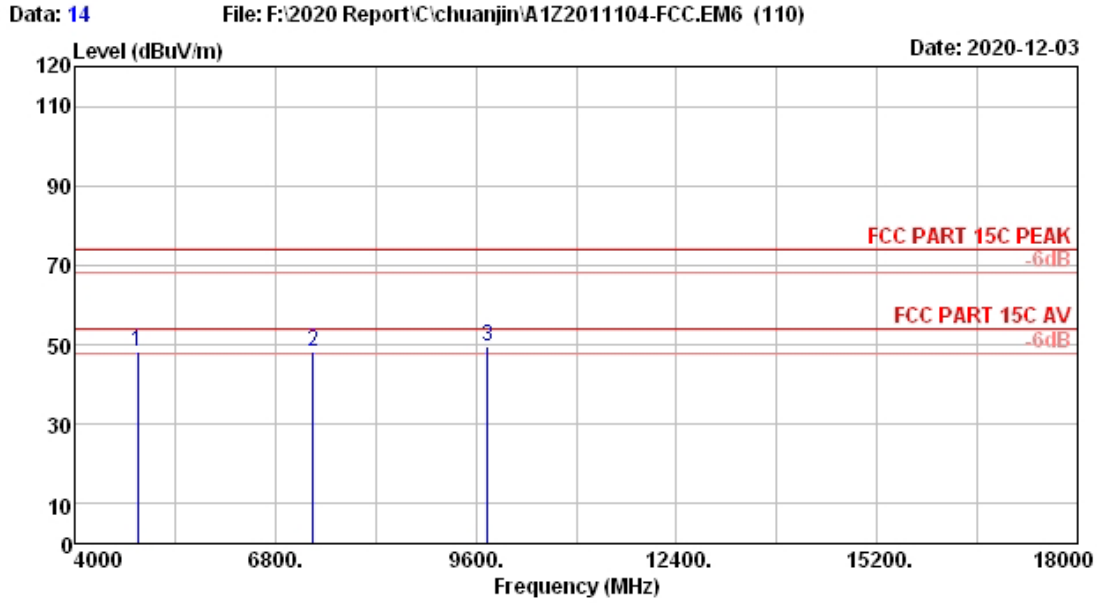
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2441MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.11	0.93	106.59	33.47	102.16	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



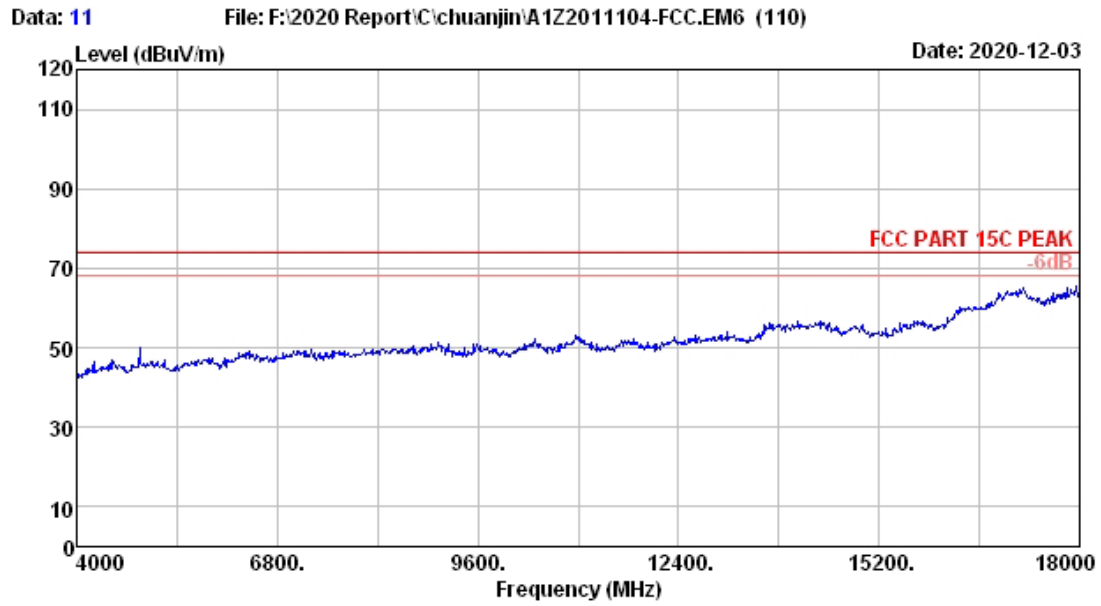
Site no.	: 3m Chamber	Data no.	: 13
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 GFSK 2441MHz TX Mode		
M/N	:		



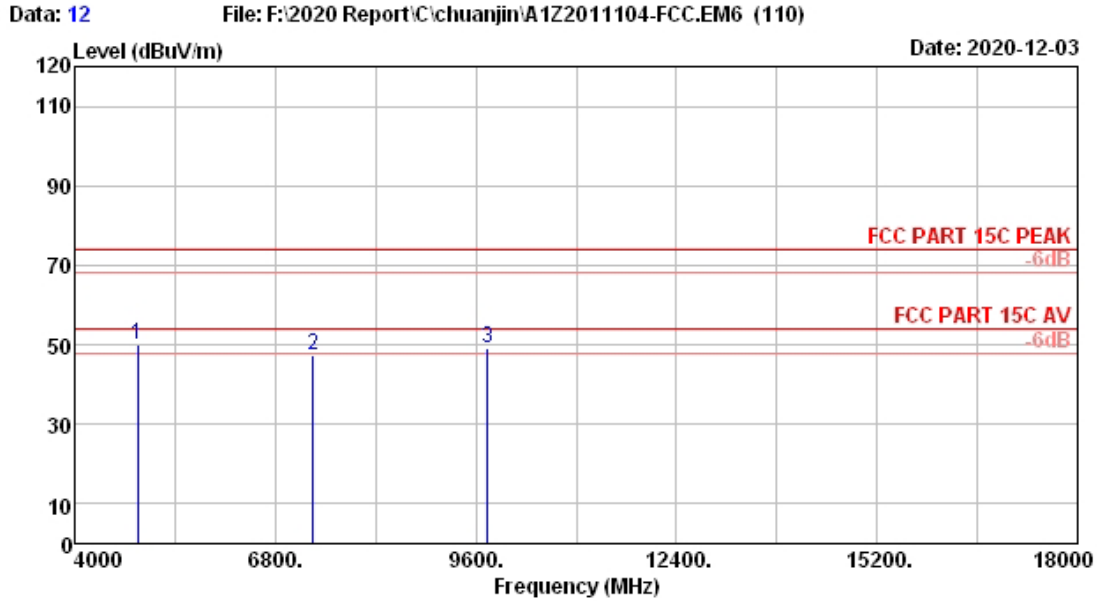
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2441MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.68	1.39	47.46	33.19	48.34	74.00	25.66	Peak
2	7323.00	36.50	1.93	42.90	33.03	48.30	74.00	25.70	Peak
3	9764.00	37.71	2.18	43.40	33.56	49.73	74.00	24.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



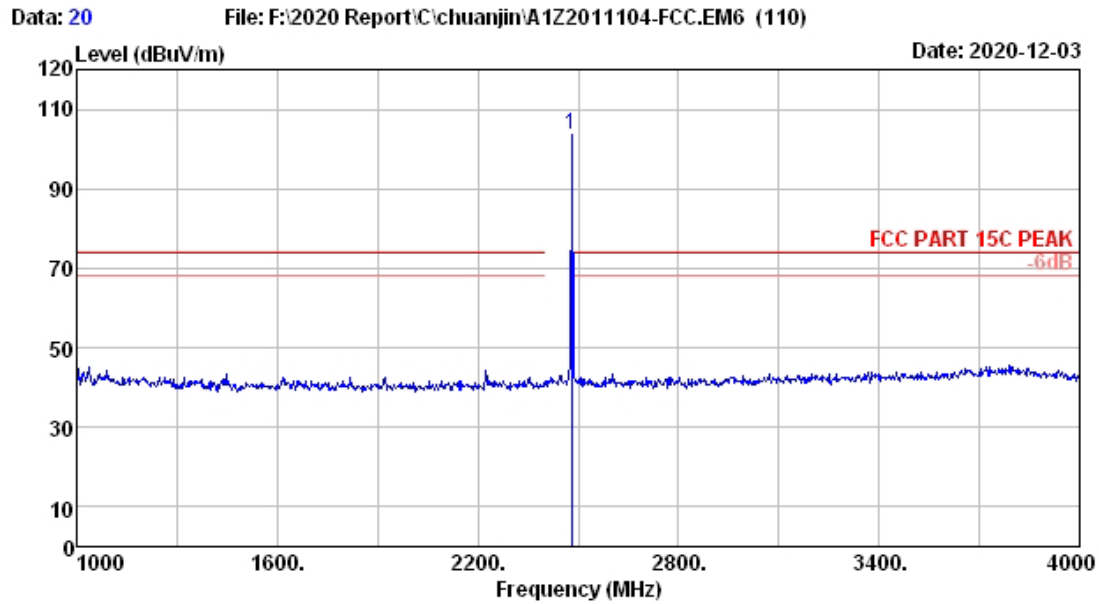
Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 GFSK 2441MHz TX Mode		
M/N	:		



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2441MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.68	1.39	49.26	33.19	50.14	74.00	23.86	Peak
2	7323.00	36.50	1.93	42.00	33.03	47.40	74.00	26.60	Peak
3	9764.00	37.71	2.18	42.93	33.56	49.26	74.00	24.74	Peak

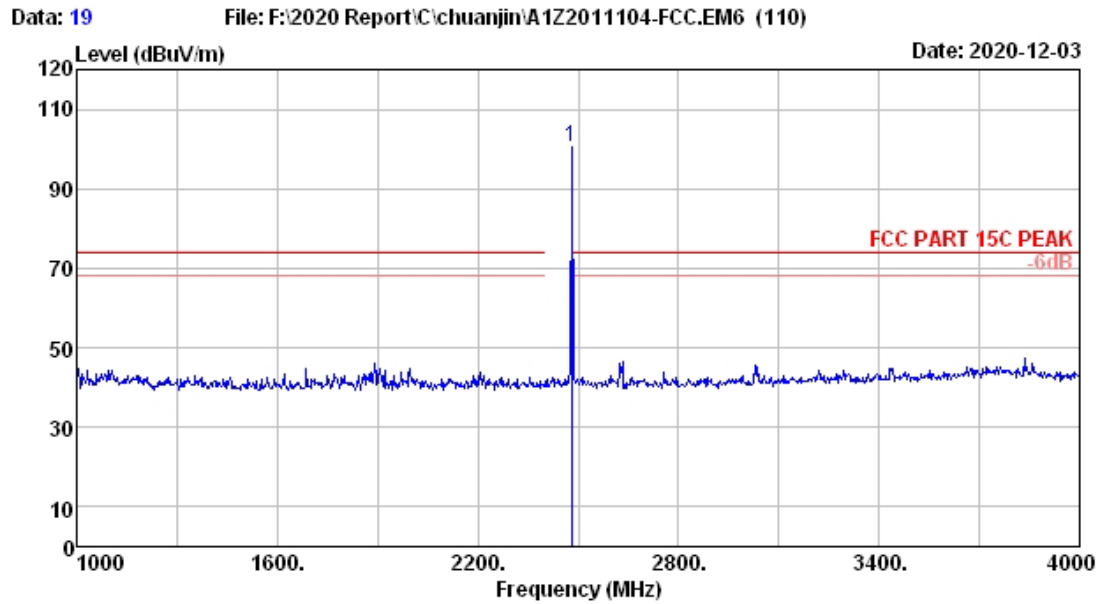
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2480MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	0.94	108.13	33.46	103.78	-----	-----	Peak

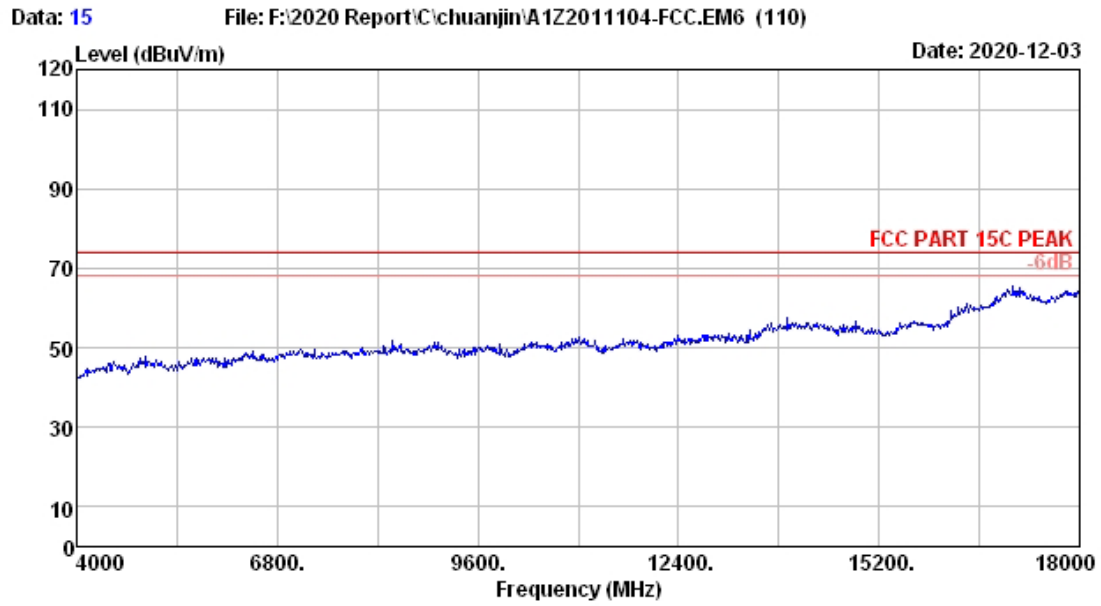
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



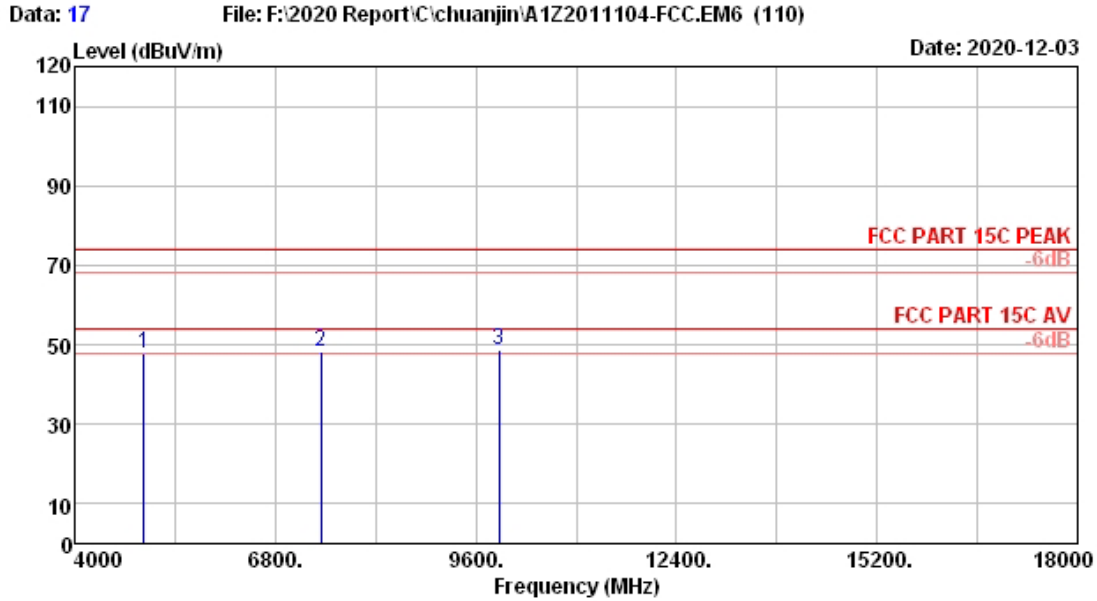
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2480MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	0.94	104.65	33.46	100.30	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



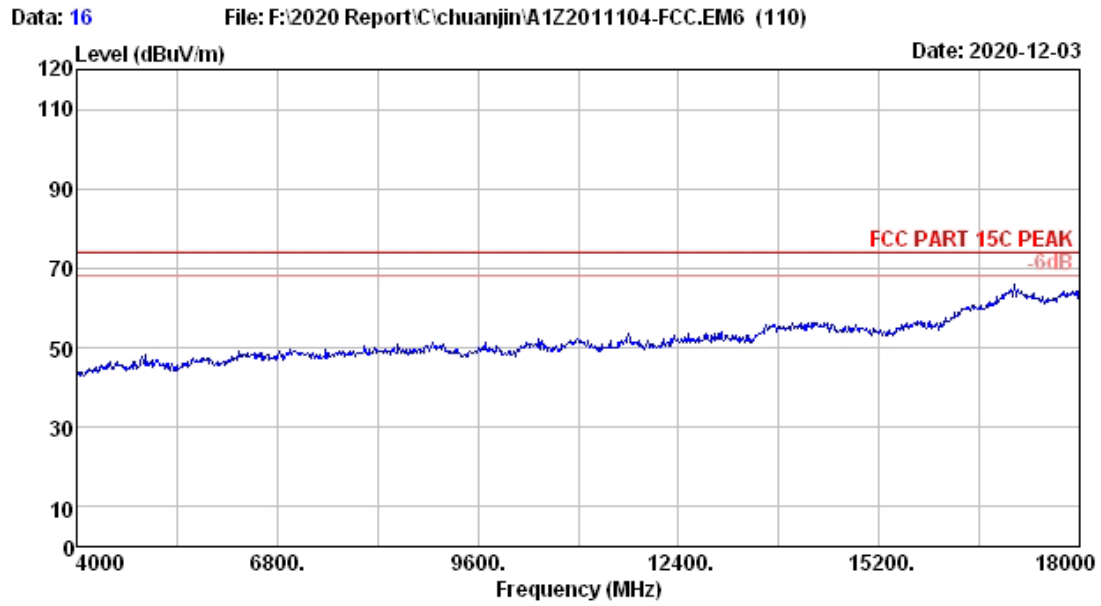
Site no.	: 3m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 GFSK 2480MHz TX Mode		
M/N	:		



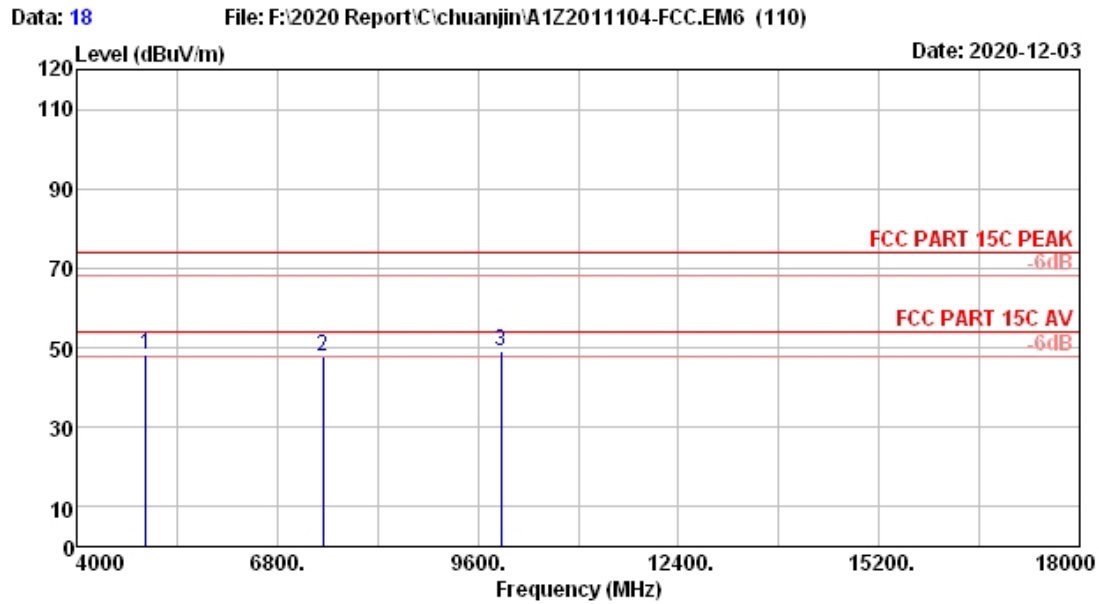
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2480MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.77	1.39	46.79	33.20	47.75	74.00	26.25	Peak
2	7440.00	36.50	1.94	42.66	33.04	48.06	74.00	25.94	Peak
3	9920.00	37.77	2.19	42.13	33.59	48.50	74.00	25.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



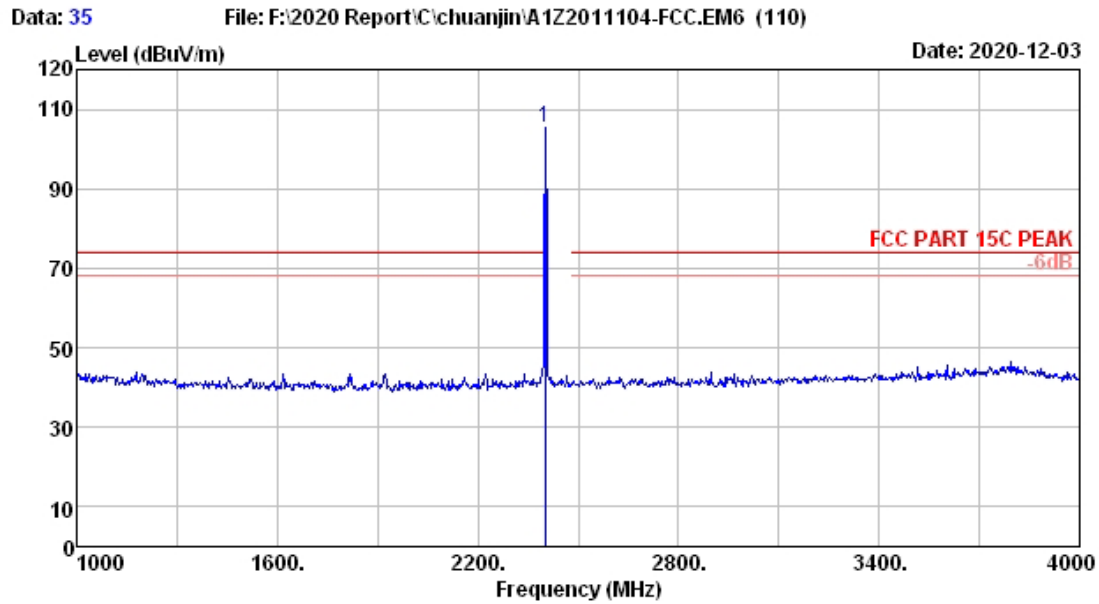
Site no.	: 3m Chamber	Data no.	: 16
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 GFSK 2480MHz TX Mode		
M/N	:		



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2480MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.77	1.39	47.28	33.20	48.24	74.00	25.76	Peak
2	7440.00	36.50	1.94	42.40	33.04	47.80	74.00	26.20	Peak
3	9920.00	37.77	2.19	42.58	33.59	48.95	74.00	25.05	Peak

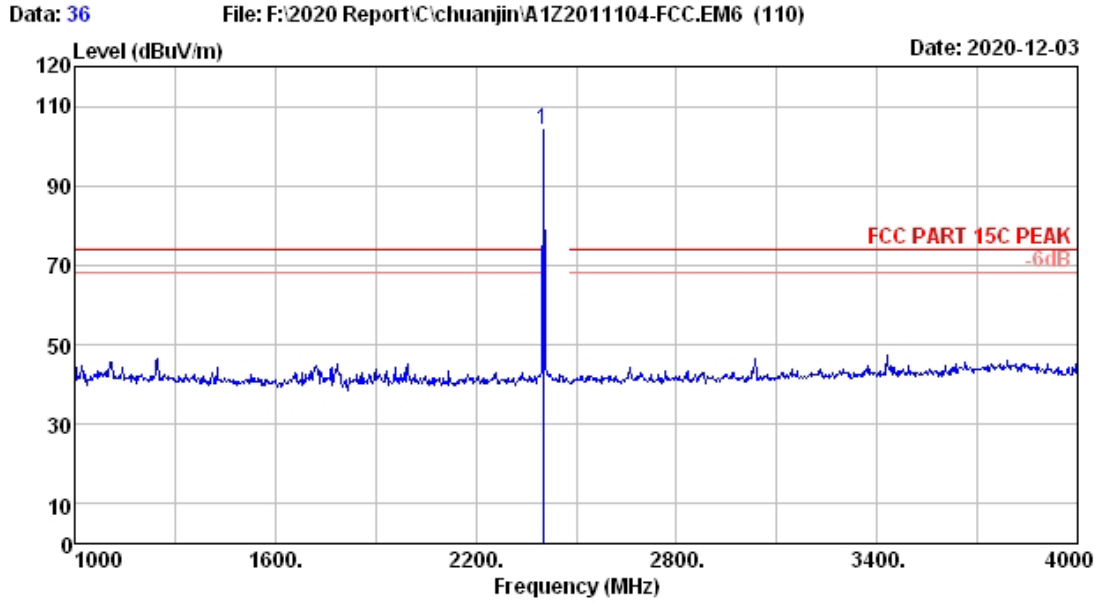
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2402MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.01	0.92	110.14	33.48	105.59	-----	-----	Peak

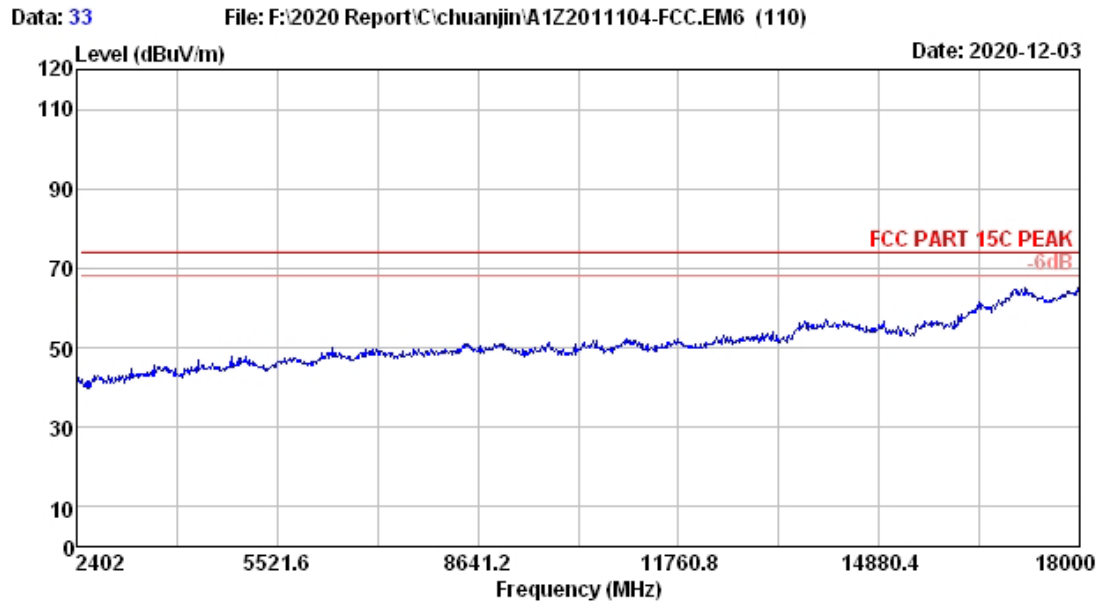
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



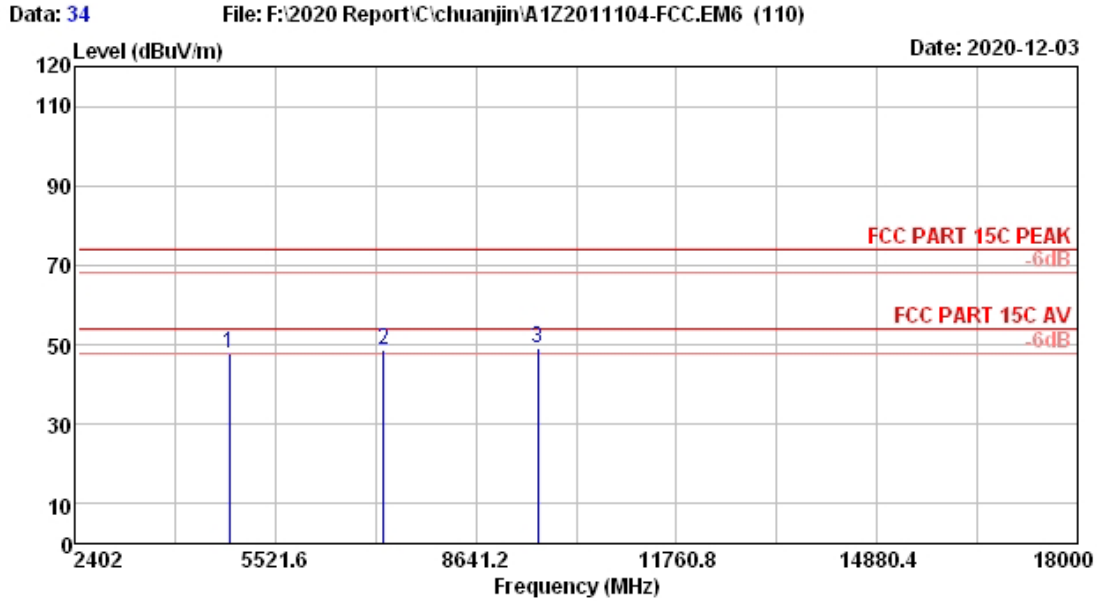
Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2402MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.01	0.92	108.50	33.48	103.95	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



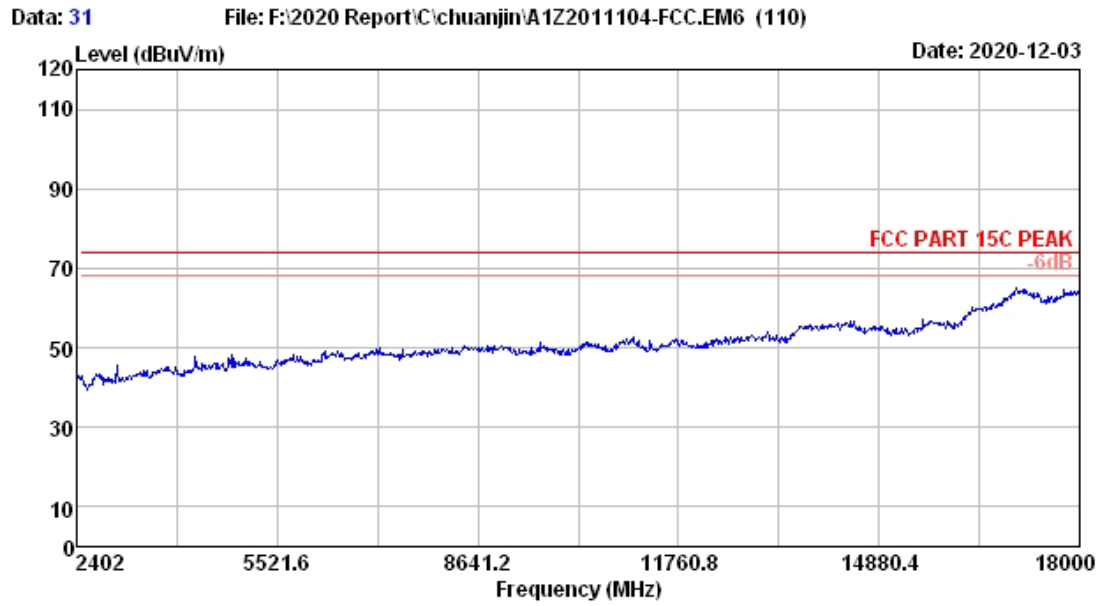
Site no.	: 3m Chamber	Data no.	: 33
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 8-DPSK 2402MHz Tx Mode		
M/N	:		



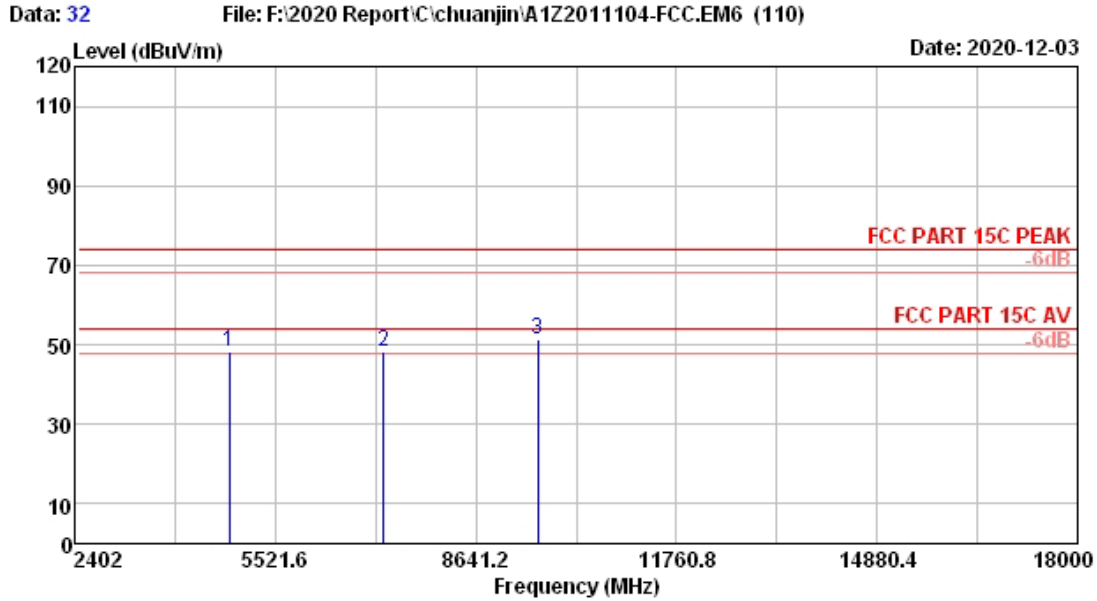
Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2402MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.61	1.38	47.06	33.18	47.87	74.00	26.13	Peak
2	7206.00	36.50	1.92	43.18	33.02	48.58	74.00	25.42	Peak
3	9608.00	37.64	2.16	42.76	33.52	49.04	74.00	24.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



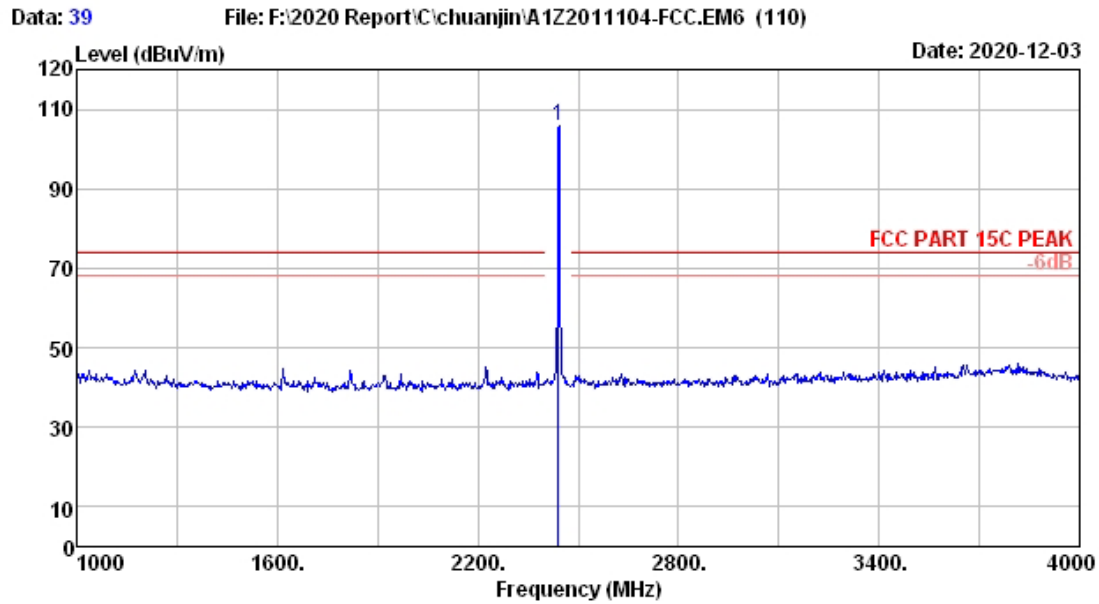
Site no.	: 3m Chamber	Data no.	: 31
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 8-DPSK 2402MHz Tx Mode		
M/N	:		



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2402MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	32.61	1.38	47.49	33.18	48.30	74.00	25.70	Peak
2	7206.00	36.50	1.92	42.86	33.02	48.26	74.00	25.74	Peak
3	9608.00	37.64	2.16	45.21	33.52	51.49	74.00	22.51	Peak

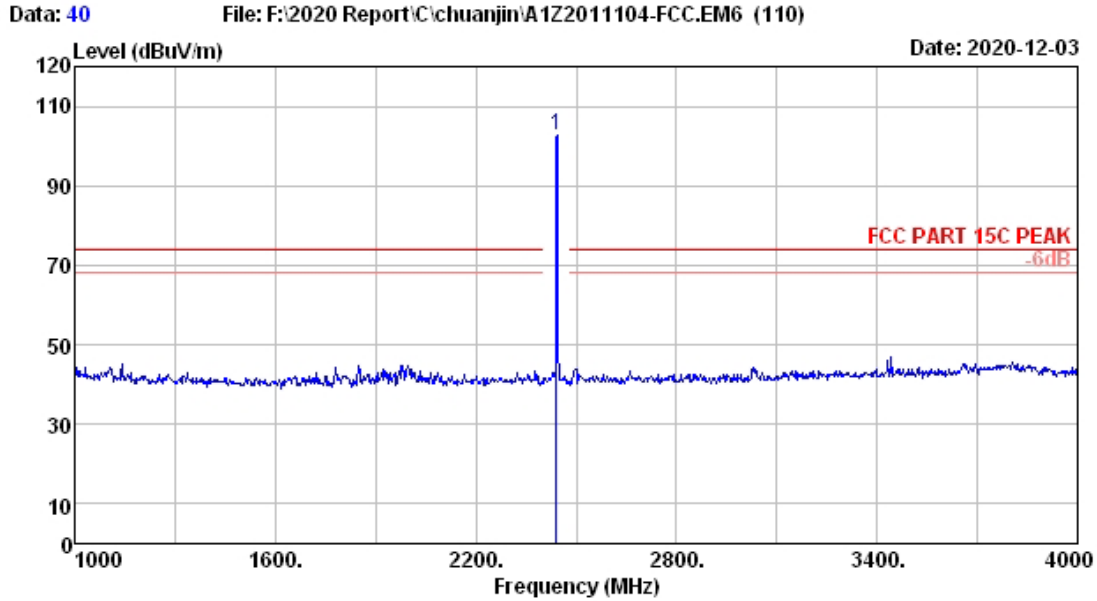
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2441MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.11	0.93	110.19	33.47	105.76	-----	-----	Peak

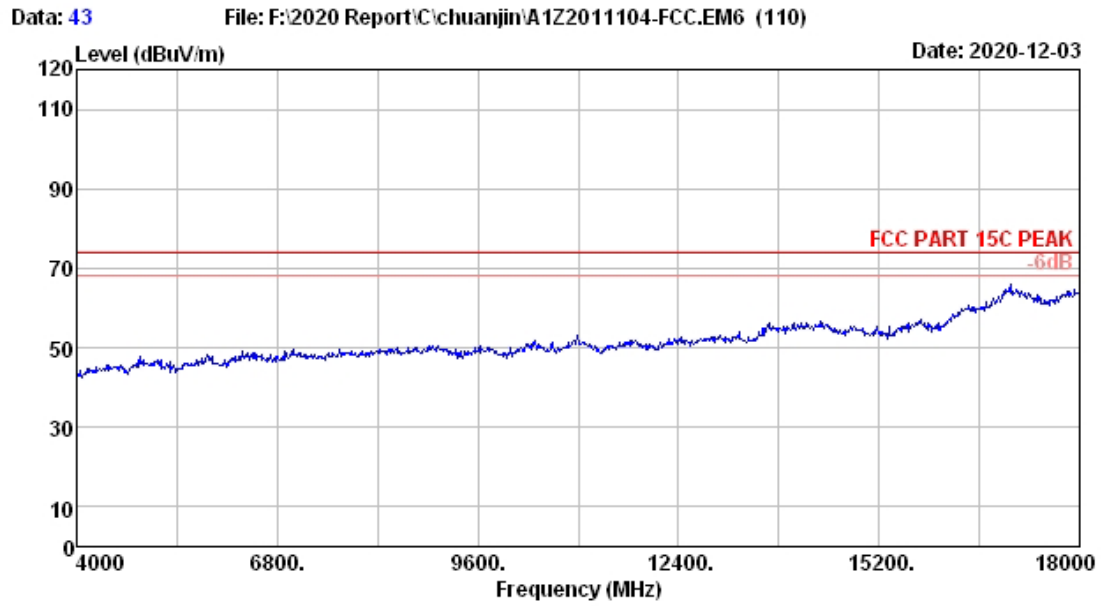
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



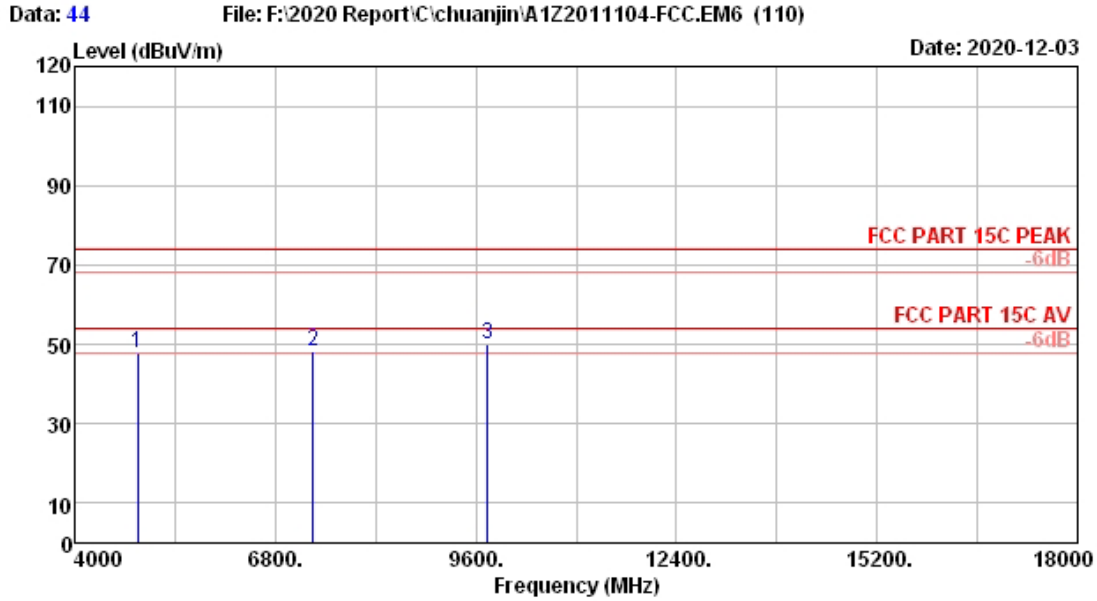
Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2441MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.11	0.93	107.18	33.47	102.75	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



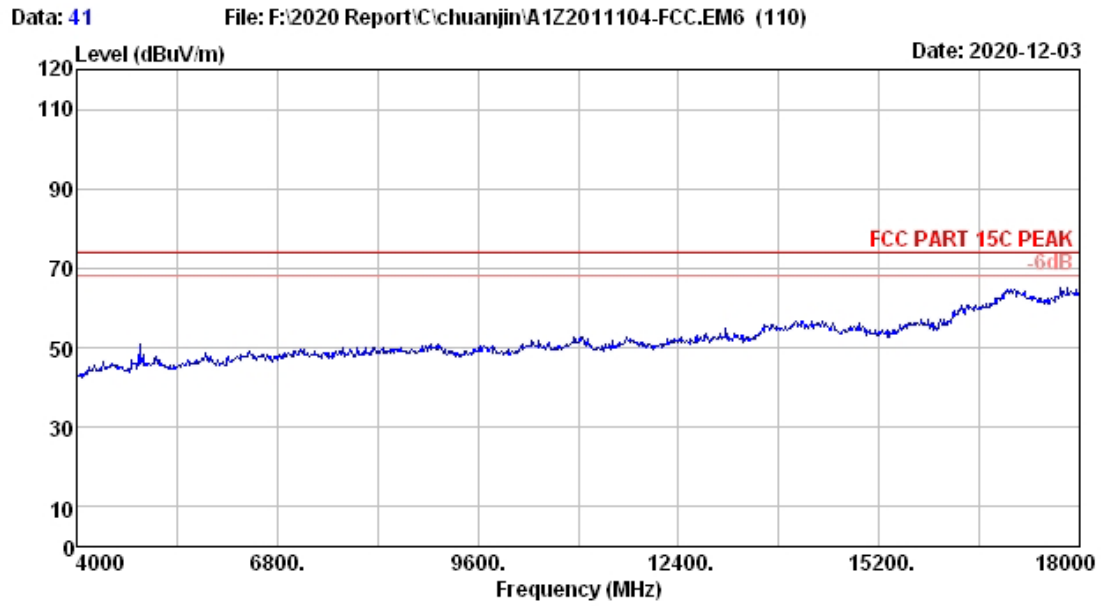
Site no.	: 3m Chamber	Data no.	: 43
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 8-DPSK 2441MHz Tx Mode		
M/N	:		



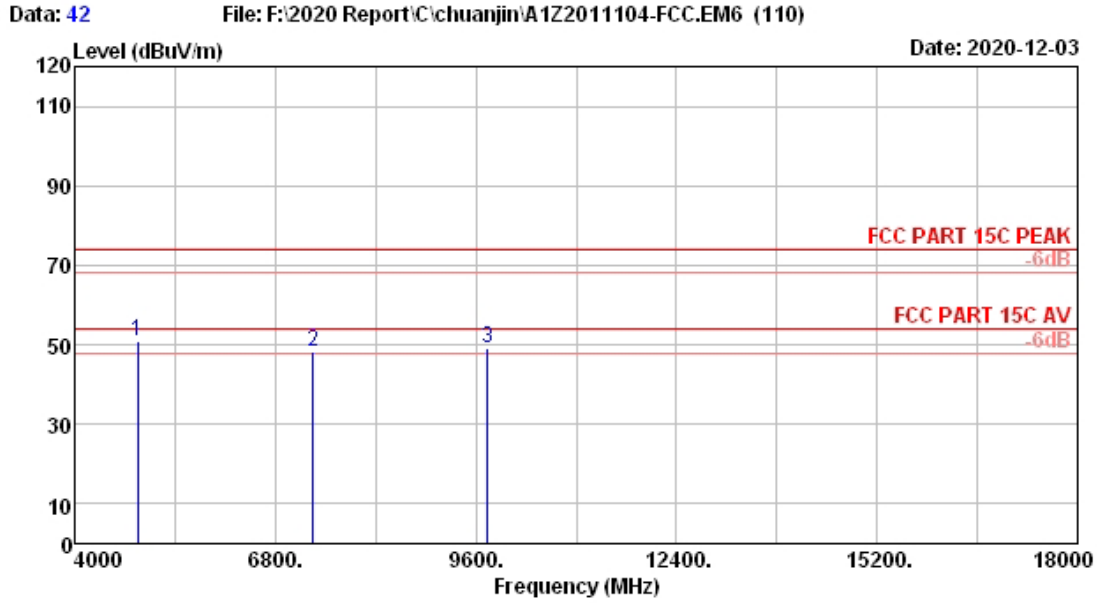
Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2441MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.68	1.39	47.14	33.19	48.02	74.00	25.98	Peak
2	7323.00	36.50	1.93	42.78	33.03	48.18	74.00	25.82	Peak
3	9764.00	37.71	2.18	43.88	33.56	50.21	74.00	23.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



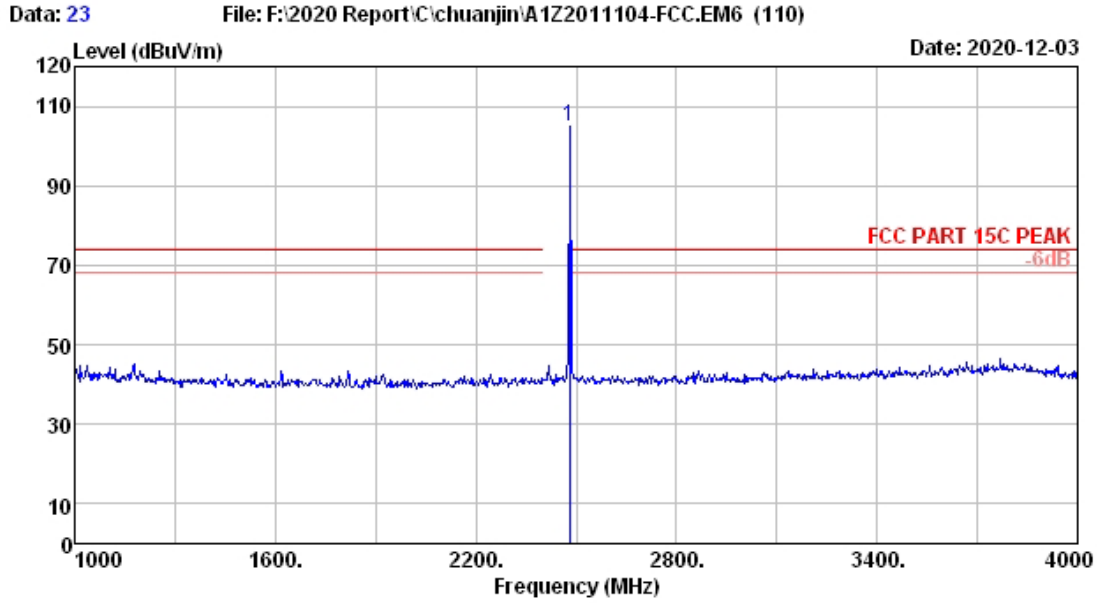
Site no.	: 3m Chamber	Data no.	: 41
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 8-DPSK 2441MHz Tx Mode		
M/N	:		



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2441MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4882.00	32.68	1.39	49.84	33.19	50.72	74.00	23.28	Peak
2	7323.00	36.50	1.93	42.68	33.03	48.08	74.00	25.92	Peak
3	9764.00	37.71	2.18	43.01	33.56	49.34	74.00	24.66	Peak

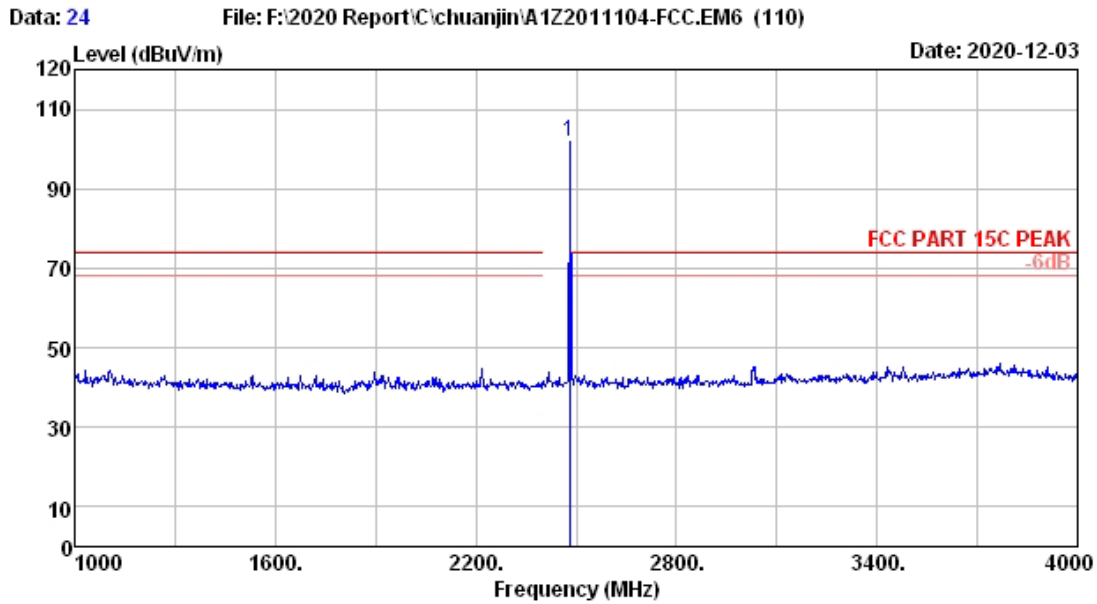
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2480MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	0.94	109.43	33.46	105.08	-----	-----	Peak

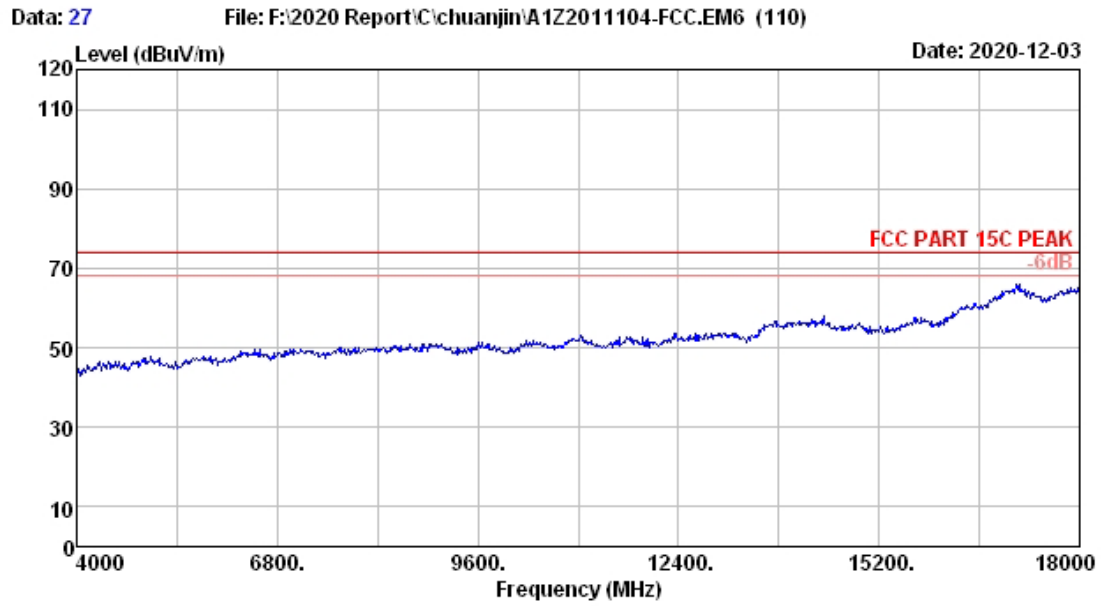
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



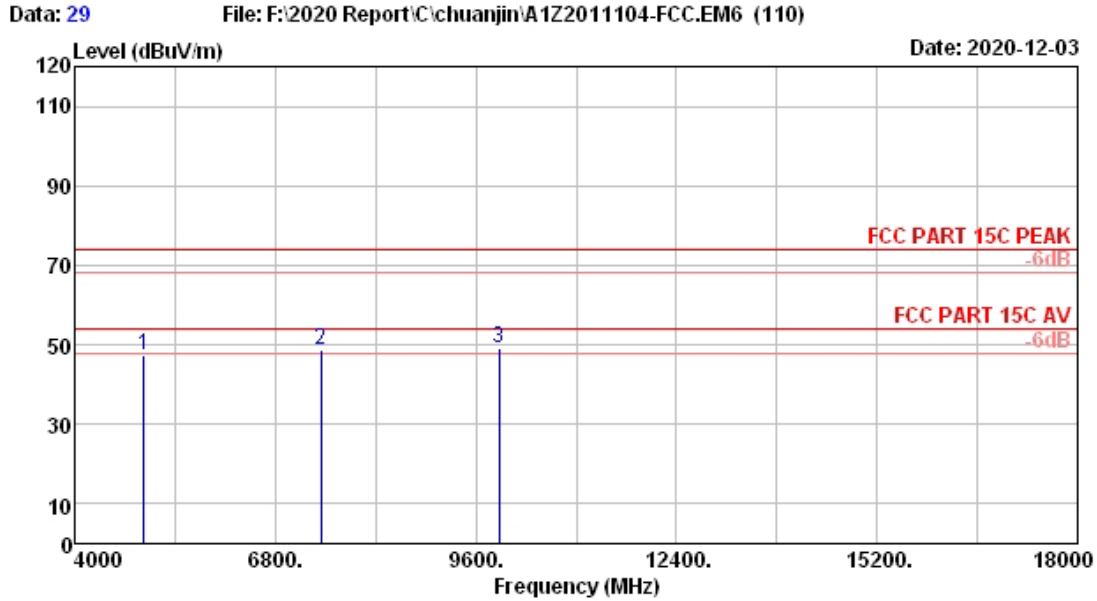
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2480MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	0.94	106.10	33.46	101.75	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



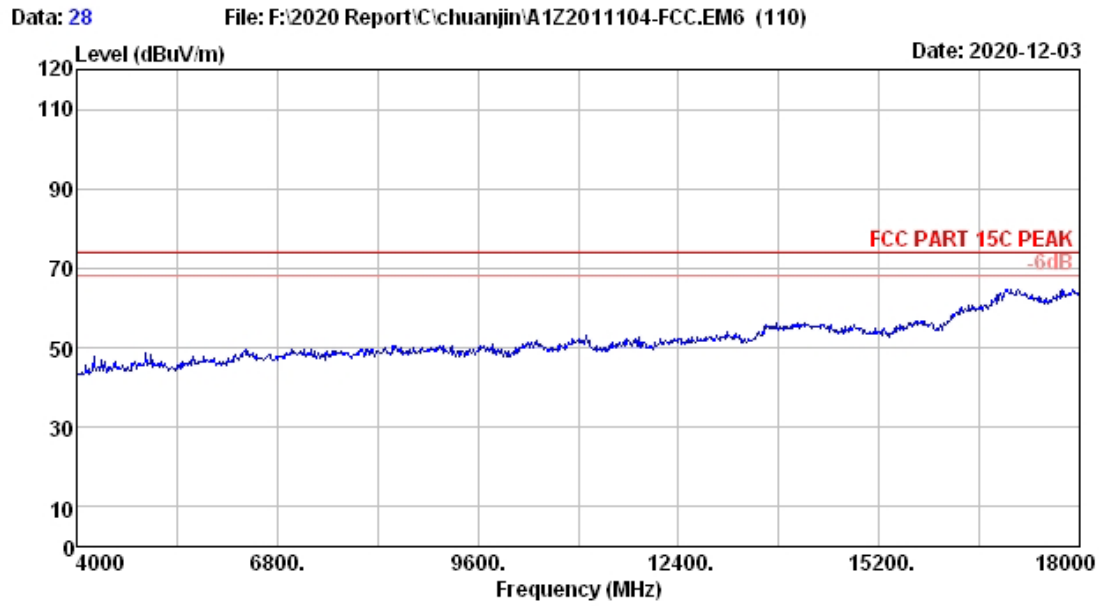
Site no.	: 3m Chamber	Data no.	: 27
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 8-DPSK 2480MHz Tx Mode		
M/N	:		



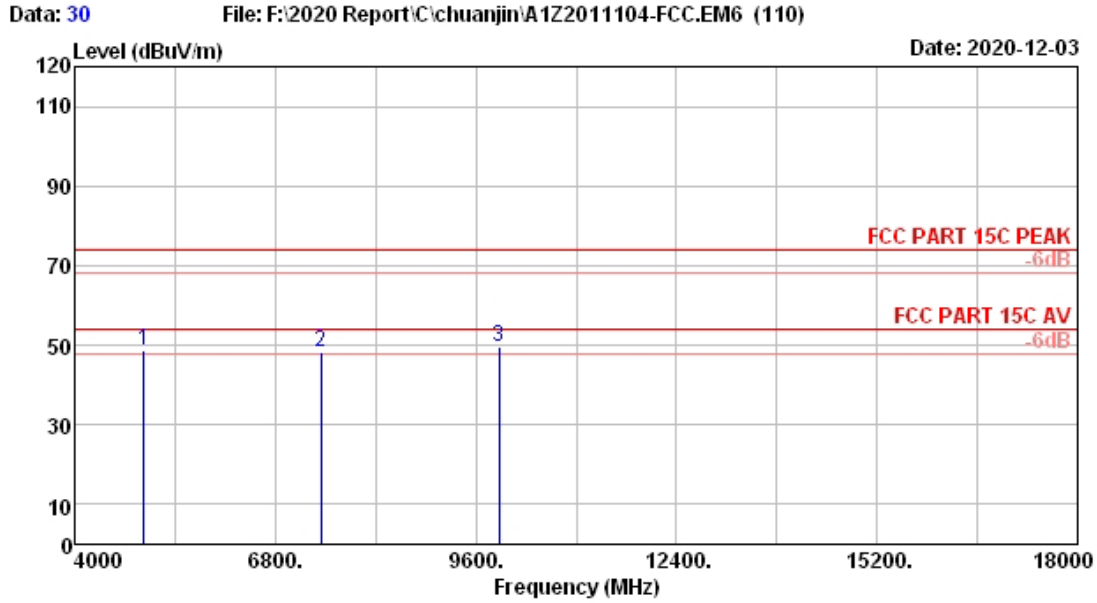
Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2480MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.77	1.39	46.32	33.20	47.28	74.00	26.72	Peak
2	7440.00	36.50	1.94	43.27	33.04	48.67	74.00	25.33	Peak
3	9920.00	37.77	2.19	42.74	33.59	49.11	74.00	24.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no.	: 3m Chamber	Data no.	: 28
Dis. / Ant.	: 3m 2020 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Lynn
EUT	:		
Power rating	: DC 5V From Notebook Input AC 120V/60Hz		
Test Mode	: BT3.0 8-DPSK 2480MHz Tx Mode		
M/N	:		



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2480MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	32.77	1.39	47.55	33.20	48.51	74.00	25.49	Peak
2	7440.00	36.50	1.94	42.99	33.04	48.39	74.00	25.61	Peak
3	9920.00	37.77	2.19	43.41	33.59	49.78	74.00	24.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

5. MAXIMUM PEAK OUTPUT POWER TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Power meter	HP	436A	2016A07891	Apr.11,20	1 Year
3.	Power Sensor	Agilent	8482B	MY41090514	Apr.11,20	1 Year
4.	Amplifier	HP	8449B	3008A00836	Apr.11,20	1 Year
5.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

5.2. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.

5.3. Test Procedure

Use the test method described in ANSI C63.10 clause 7.8.5:

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power directly.

5.4. Test Results

EUT: WiFi module		
M/N: U9W42 Y		
Test date: 2020-11-27	Pressure: 102.3±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Leo	Test site: RF site	Temperature: 25.5±0.6℃

Test Mode	Frequency	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	10.066	21
	2441	10.356	21
	2480	9.912	21
8-DPSK	2402	11.860	21
	2441	11.958	21
	2480	11.560	21
Conclusion: PASS			

6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.11,20	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.30,20	3 Year
4.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

Use the test method descried in ANSI C63.10 clause 7.8.6:

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

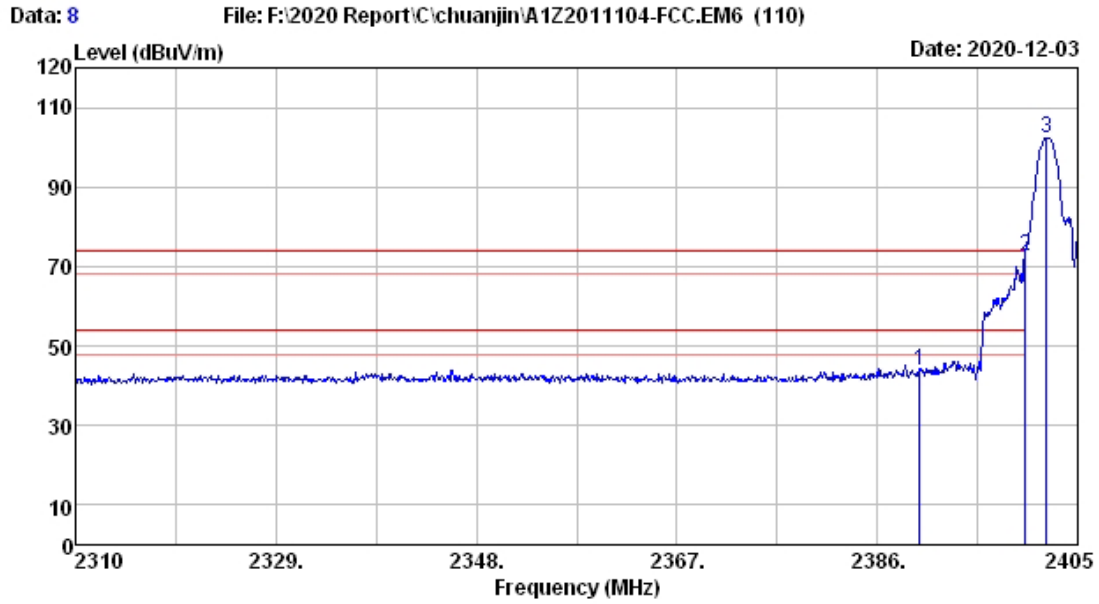
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a insulating material (up to 12mm thick) worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

6.4. Test Results

Pass (The testing data was attached in the next pages.)

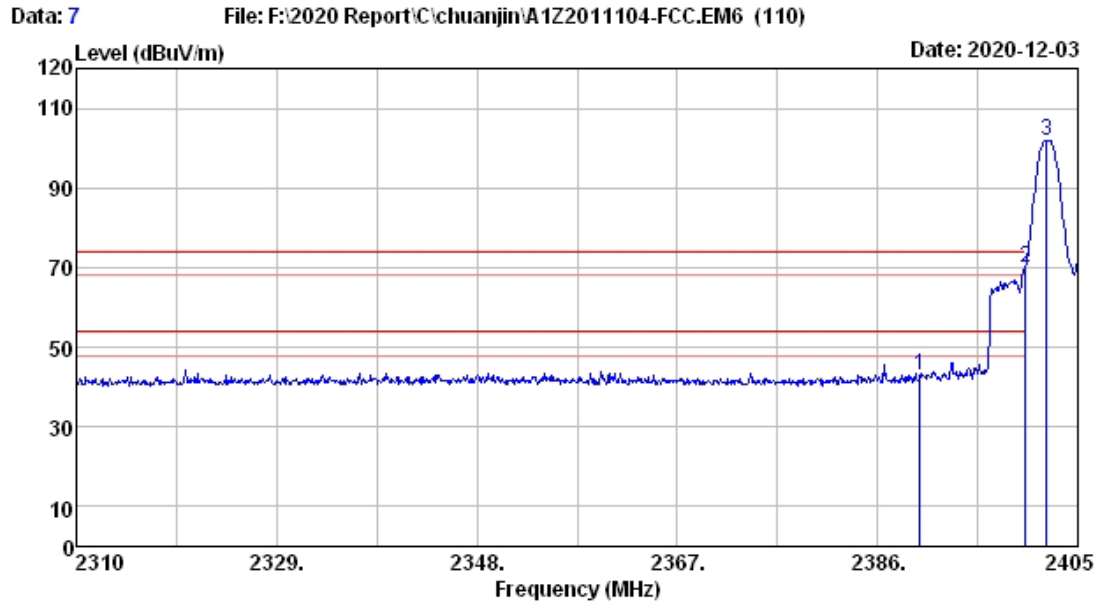
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2402MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.01	0.92	48.36	33.48	43.81	74.00	30.19	Peak
2	2400.00	28.01	0.92	77.29	33.48	72.74	74.00	1.26	Peak
3	2402.00	28.01	0.92	106.76	33.48	102.21	-----	-----	Peak

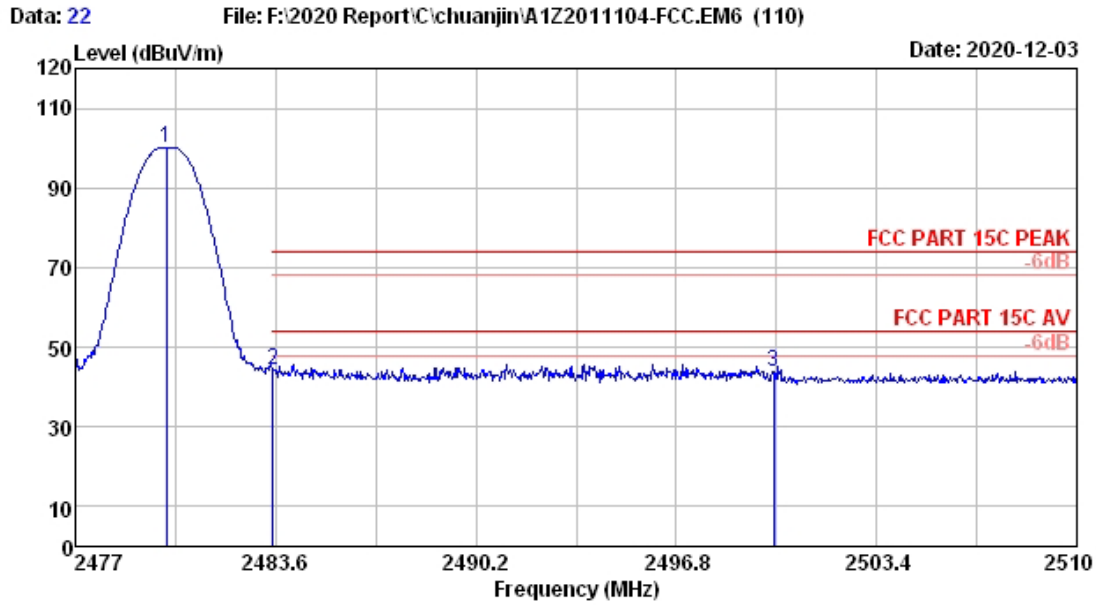
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2402MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.01	0.92	47.48	33.48	42.93	74.00	31.07	Peak
2	2400.000	28.01	0.92	74.59	33.48	70.04	74.00	3.96	Peak
3	2402.000	28.01	0.92	106.60	33.48	102.05	-----	-----	Peak

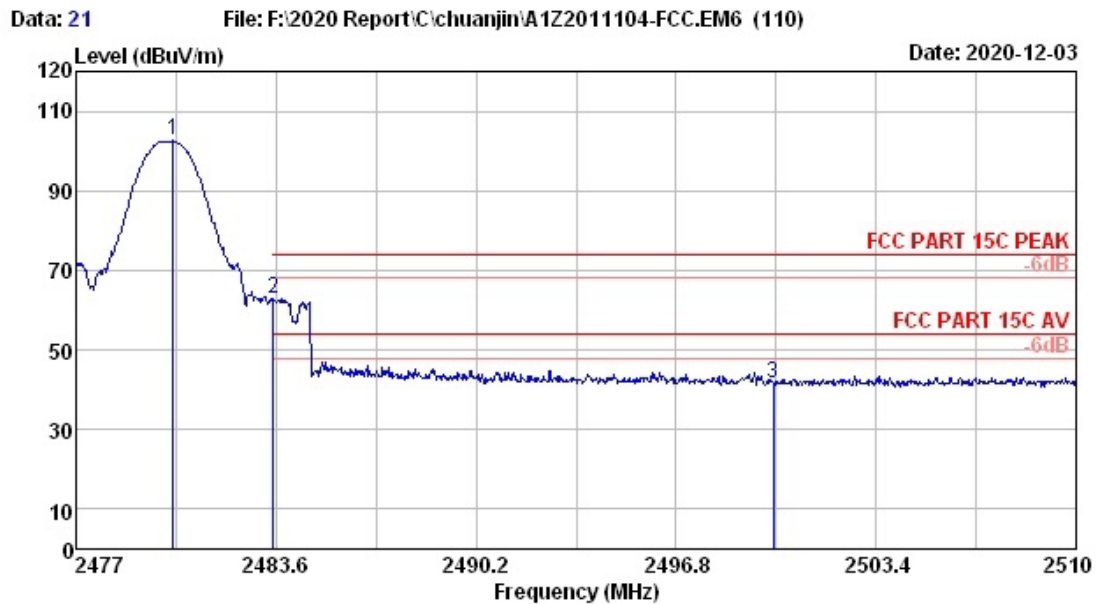
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2480MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.17	0.94	104.63	33.46	100.28	-----	-----	Peak
2	2483.500	28.17	0.94	48.85	33.46	44.50	74.00	29.50	Peak
3	2500.000	28.20	0.95	47.96	33.45	43.66	74.00	30.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



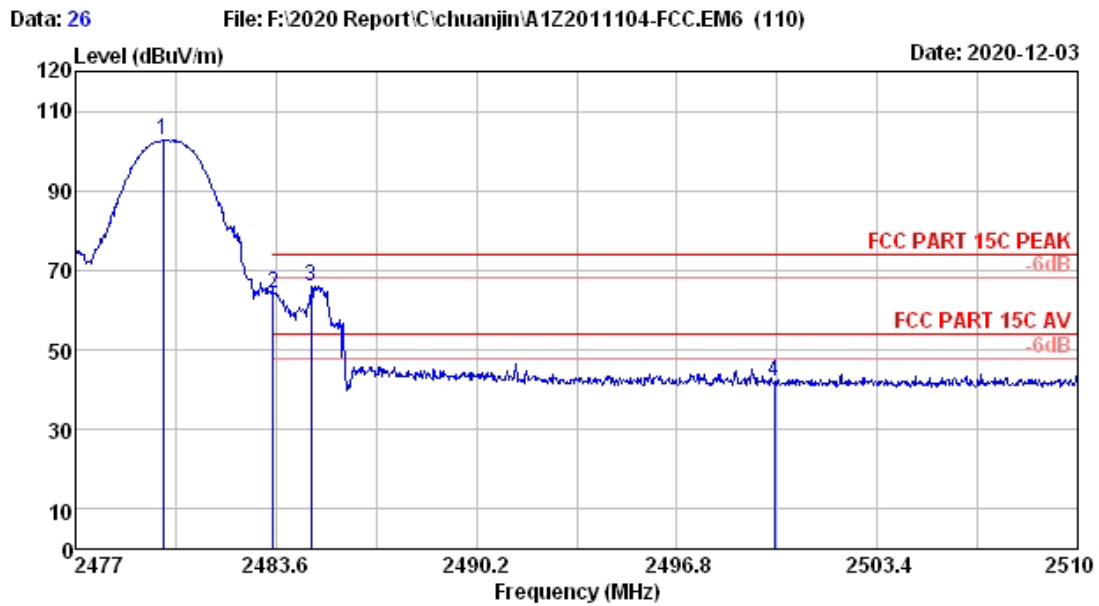
Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 GFSK 2480MHz TX Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.20	28.17	0.94	106.88	33.46	102.53	-----	-----	Peak
2	2483.50	28.17	0.94	67.12	33.46	62.77	74.00	11.23	Peak
3	2500.00	28.20	0.95	45.87	33.45	41.57	74.00	32.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2483.50	62.77	-24.495	38.275	54	Pass

Note: The Duty cycle factor refer to the original report ACS-F20001.



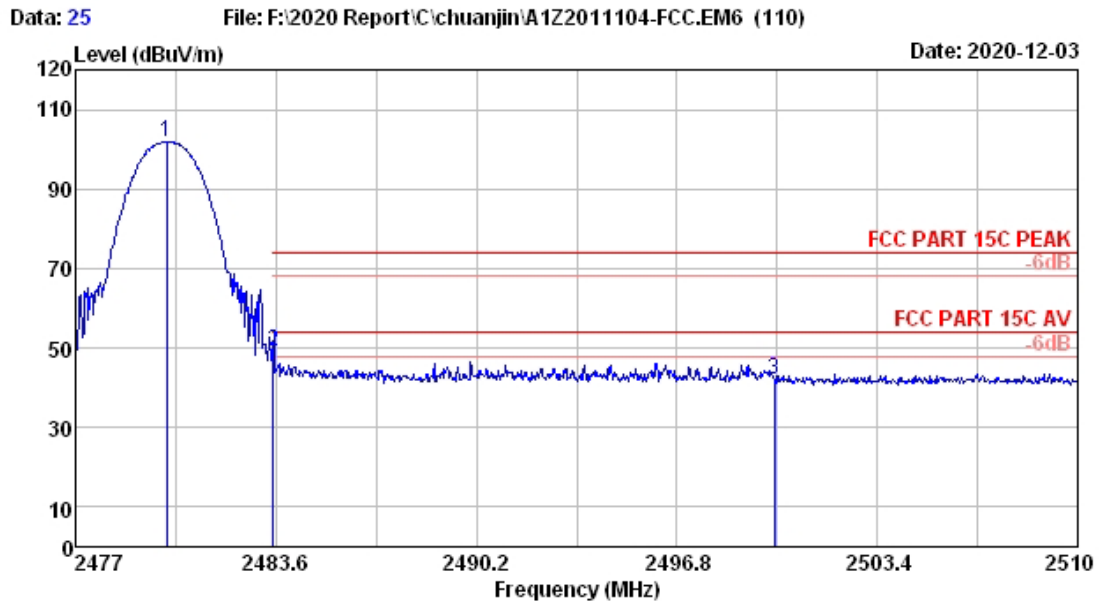
Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.87	28.17	0.94	106.92	33.46	102.57	-----	-----	Peak
2	2483.50	28.17	0.94	68.54	33.46	64.19	74.00	9.81	Peak
3	2484.76	28.17	0.94	70.55	33.46	66.20	74.00	7.80	Peak
4	2500.00	28.20	0.95	46.15	33.45	41.85	74.00	32.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2483.50	64.19	-24.495	39.695	54	Pass
2484.76	66.20	-24.495	41.705	54	Pass

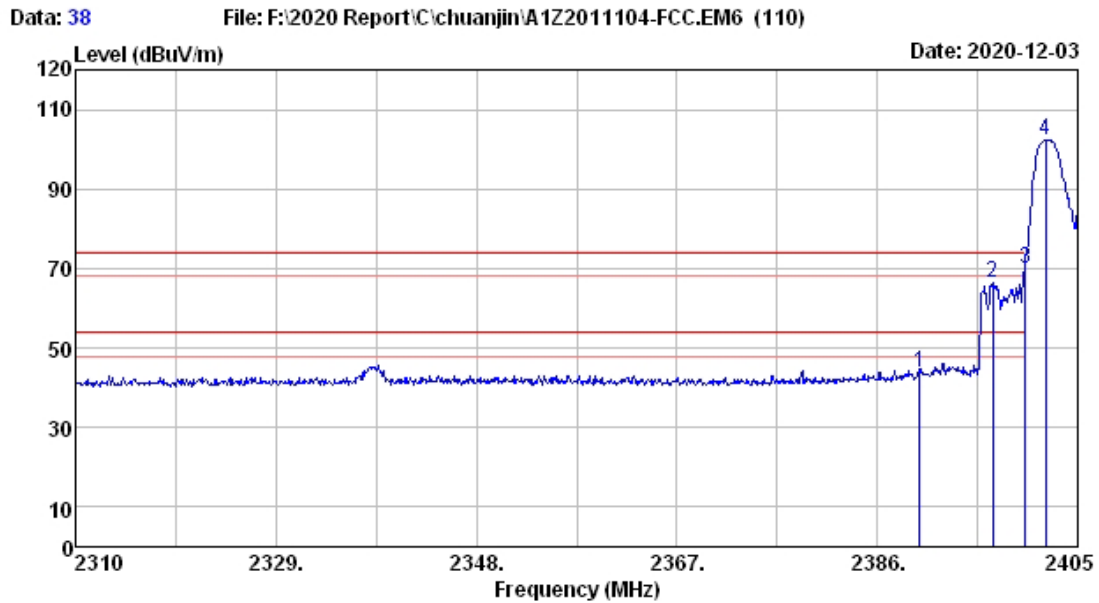
Note: The Duty cycle factor refer to the original report ACS-F20001.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 EUT :
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2480MHz Tx Mode
 M/N :

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.17	0.94	106.33	33.46	101.98	-----	-----	Peak
2	2483.50	28.17	0.94	53.54	33.46	49.19	74.00	24.81	Peak
3	2500.00	28.20	0.95	46.16	33.45	41.86	74.00	32.14	Peak

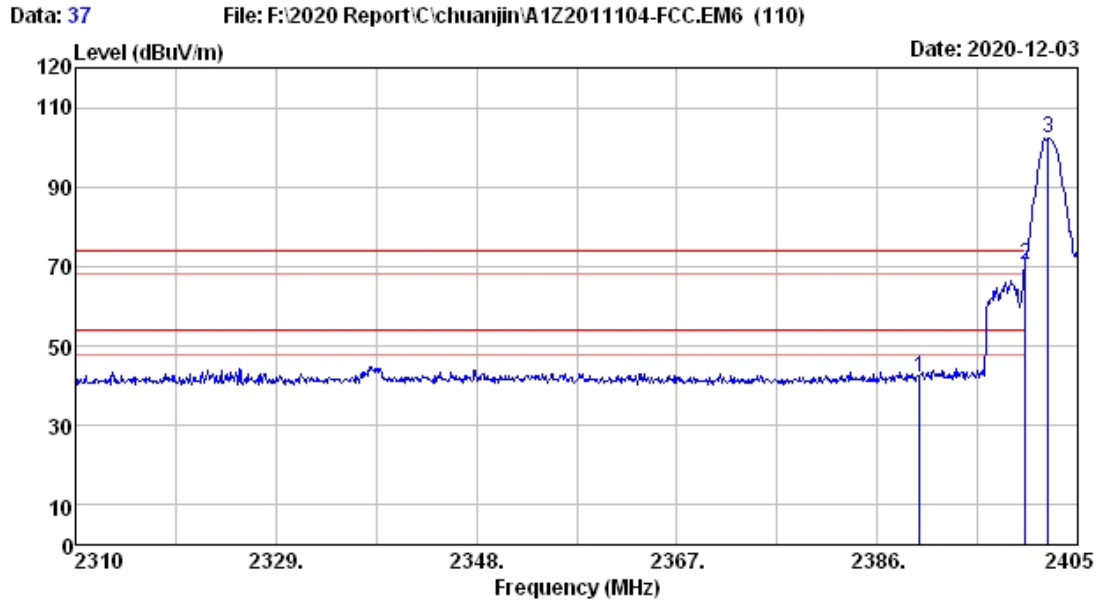
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.01	0.92	48.39	33.48	43.84	74.00	30.16	Peak
2	2396.93	28.01	0.92	70.93	33.48	66.38	74.00	7.62	Peak
3	2400.00	28.01	0.92	74.35	33.48	69.80	74.00	4.20	Peak
4	2401.96	28.01	0.92	106.73	33.48	102.18	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2020 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Lynn
 Power rating : DC 5V From Notebook Input AC 120V/60Hz
 Test Mode : BT3.0 8-DPSK 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.01	0.92	46.79	33.48	42.24	74.00	31.76	Peak
2	2400.00	28.01	0.92	74.85	33.48	70.30	74.00	3.70	Peak
3	2402.25	28.01	0.92	106.67	33.48	102.12	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

7. ANTENNA REQUIREMENT

7.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.2. Antenna Connected Construction

The antennas used for this product are Multilayer Ceramic Antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is -0.42dBi.

8. DEVIATION TO TEST SPECIFICATIONS

[NONE]

..... THE END