

APPLICATION FOR CERTIFICATION

On Behalf of

JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO., LTD.

Wi-Fi Kit

Model No. : Wi-Fi Kit
Brand : GOODWE
FCC ID : 2AU7J-WIFIKIT

Prepared for

JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO., LTD.

No.90 Zijin Rd., New District, Suzhou, 215011, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.

No. 1289 Jiangxing East Road, the Part of Wujiang Economic Development Zone
Jiangsu China 215200

Tel : +86-512-63403993

Fax :+86-512-63403339

Report No. : ACWE-F1912002A
Date of Test : Jun.02~05, 2020
Date of Report : Jun.10, 2020

TABLE OF CONTENTS

Description	Page
TEST REPORT CERTIFICATION	4
1. DESCRIPTION OF VERSION.....	4
2. SUMMARY OF MEASUREMENTS AND RESULTS	5
3. GENERAL INFORMATION.....	6
3.1. Description of Device (EUT).....	6
3.2. Antenna Information.....	7
3.3. EUT Specification Assessed in Current Report.....	7
3.4. Test Power Setting&Software	7
3.5. Duty Cycle	8
3.6. Tested Supporting System Details (AE).....	8
3.7. Description of Test Facility	8
3.8. Measurement Uncertainty.....	9
4. RADIATED EMISSION MEASUREMENT	10
4.1. Test Equipment.....	10
4.2. Block Diagram of Test Setup.....	10
4.3. Radiated Emission Limits.....	12
4.4. Test Procedure	13
4.5. Measurement Results.....	14
5. OUTPUT POWER MEASUREMENT.....	53
5.1. Test Equipment.....	53
5.2. Block Diagram of Test Setup.....	53
5.3. Specification Limits (§15.247(b)(3)).....	53
5.4. Test Procedure	53
5.5. Test Results.....	54
6. DEVIATION TO TEST SPECIFICATIONS	60

TEST REPORT CERTIFICATION

Applicant : JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO., LTD.
Manufacturer : JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO., LTD.
EUT Description : Wi-Fi Kit
FCC ID : 2AU7J-WIFIKIT
(A) Model No. : Wi-Fi Kit
(B) Brand : GOODWE
(C) Test Voltage : DC 5V

Applicable Standards:

47 CFR FCC Part 15 Subpart C
ANSI C63.10:2013
KDB 558074 D01 DTS Meas Guidance v05r02

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Jun.02~05, 2020

Date of Report: Jun.10, 2020

Prepared by :


(Emma Hu/Assistant Administrator)

Approved & Authorized Signer :


(Ken Lu/Vice General Manager)



1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
0	Dec.20, 2019	Original Report.	ACWE-F1912002
Rev. A	Jun.10, 2020	Updated information for this report is as below: 1.The antenna position changes and changes to be welded on the PCB; 2. Power supply chip changes, and increased voltage regulator capacitance; 3. Two more status-indication lights have been added.	ACWE-F1912002A

2. SUMMARY OF MEASUREMENTS AND RESULTS

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

Rule	Description	Results
15.207	Conducted Emission	N/A
15.247(d)/ 15.205	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	6dB Bandwidth	N/A
15.247(b)(3)	Maximum Output Power	PASS
15.247(d)	Conducted Band Edges and Conducted Spurious Emission	N/A
15.247 (e)	Peak Power Spectral Density	N/A
15.203	Antenna Requirement	Compliance

3. GENERAL INFORMATION

3.1. Description of Device (EUT)

Description	:	Wi-Fi Kit
Model No.	:	Wi-Fi Kit
FCC ID	:	2AU7J-WIFIKIT
Brand	:	GOODWE
Applicant	:	JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO., LTD. No.90 Zijin Rd., New District, Suzhou, 215011, China
Manufacturer	:	JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO., LTD. No.90 Zijin Rd., New District, Suzhou, 215011, China
Date of Receipt of Sample	:	Jun.01, 2020
Date of Test	:	Jun.02~05, 2020

3.2. Antenna Information

Frequency (MHz)	Gain(dBi)
2400-2500	3

3.3. EUT Specification Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2462	11	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		11	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 144.4

Channel List	
802.11 b/g/n-HT20	
Channel Number	Frequency (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

3.4. Test Power Setting&Software

Mode	Channel	Power Setting
802.11b	1	Default
	6	
	11	
802.11g	1	
	6	
	11	
802.11n-HT20	1	
	6	
	11	
Test Software	BSP Version:2.3	

3.5. Duty Cycle

Mode	Duty Cycle	Duty Cycle Factor
802.11b	97%	0.13
802.11g	95%	0.22
802.11n-HT20	95%	0.22

3.6. Tested Supporting System Details (AE)

3.6.1. USB Cable

Manufacturer : UGREEN
Length : 1m

3.6.2. Notebook

Manufacturer : DELL
Model Number : INSPIRON N4050

3.7. Description of Test Facility

Name of Firm : **Audix Technology (Wujiang) Co., Ltd. EMC Dept.**

Site Location : No. 1289 Jiangxing East Road, the Eastern Part of
Wujiang Economic Development Zone
Jiangsu China 215200

Test Facilities : **No.2 3m Semi-anechoic Chamber
RF Fully Chamber**

NVLAP Lab Code : 200786-0
Valid until on Sep.30, 2020
(NVLAP is a signatory member of ILAC MRA)
Remark: This report shall not be imply endorsement,
certification or approval by NVLAP, NIST, or any agency
of the U.S. Federal Government.

3.8. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
No.1 Conducted Disturbance Measurement	0.15MHz ~ 30MHz	$\pm 3.40\text{dB}$
Radiated Disturbance Measurement (At 3m Chamber)	30MHz ~ 1GHz	$\pm 5.92\text{dB}$
	1GHz ~ 6GHz	$\pm 6.02\text{dB}$
	6GHz ~ 18GHz	$\pm 6.80\text{dB}$

Remark: Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
6 dB Bandwidth	$\pm 0.16\text{ MHz}$
Output Power	$\pm 0.12\text{dB}$
Band Edges	$\pm 0.38\text{dB}$
Power Spectral Density	$\pm 0.38\text{dB}$
Emission Limitations	$\pm 0.38\text{dB}$

Remark: Uncertainty = $k_{uc}(y)$

4. RADIATED EMISSION MEASUREMENT

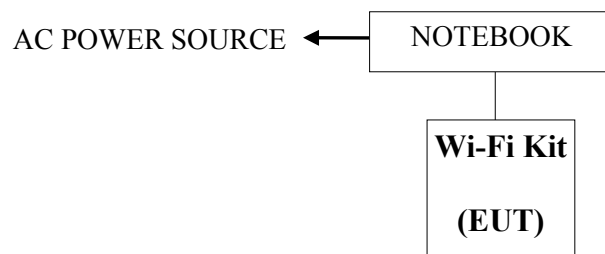
4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:
At 3m Semi-Anechoic Chamber

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	Preamplifier	Agilent	8447D	2944A10922	2020-04-03	1 Year
2.	Bi-log Antenna	SCHWARZBECK	VULB 9168	706	2020-03-10	1 Year
3.	Horn Antenna	ETS	3117	00218586	2020-03-16	1 Year
4.	Microwave Preamplifier	Agilent	8449B	3008A02232	2020-04-03	1 Year
5.	EMI Test Receiver	R&S	ESR7	101956	2020-04-07	1 Year
6.	RF Cable	Chengyi+ Shengxuan	NM500+RO S400	190945+13000+3000	2020-03-18	1 Year
7.	RF Cable	Chengyi	EMC104-SF-NM-5000/S M-6000	190938+190942	2019-11-22	1 Year
8.	Software	Audix /e3 (9.160323)				

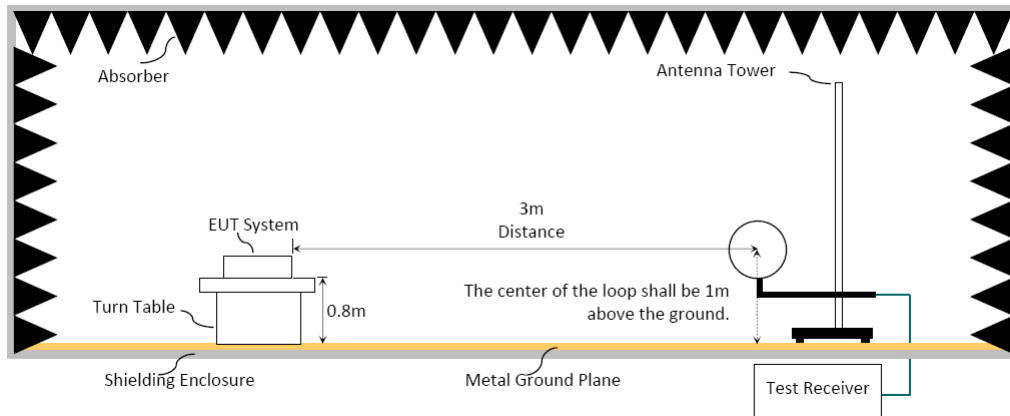
4.2. Block Diagram of Test Setup

4.2.1. Block Diagram of Test Setup between EUT and simulators

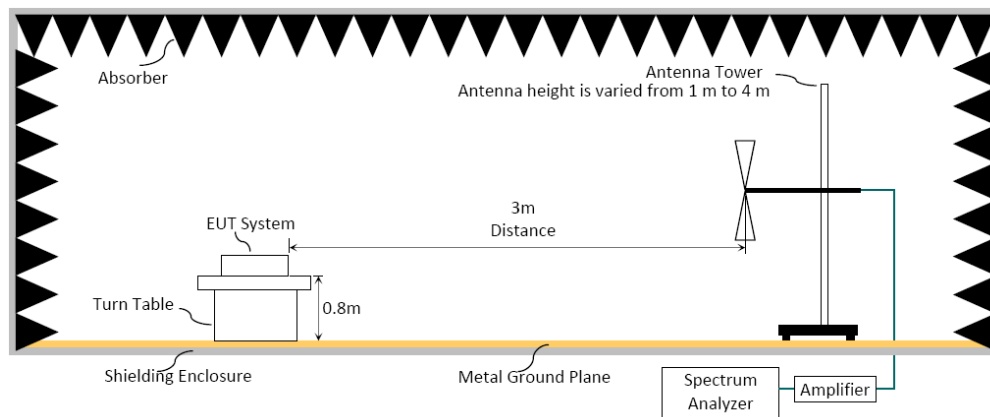


— : POWER LINE
— : SIGNAL LINE

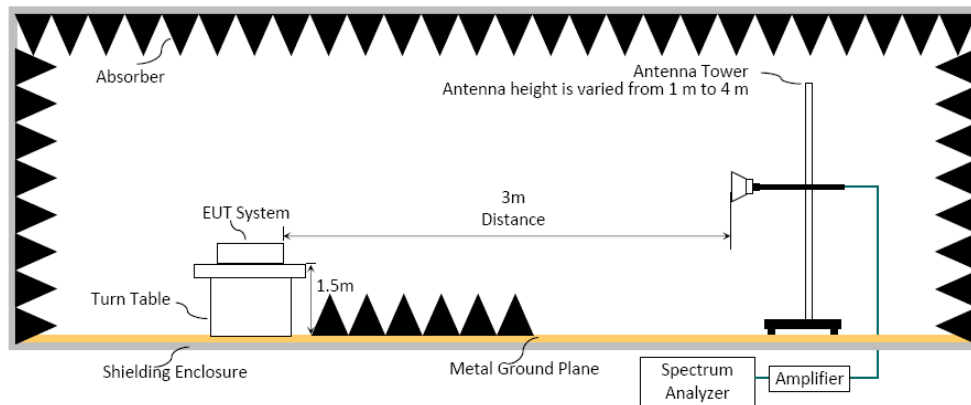
4.2.2. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for 9kHz-30MHz



4.2.3. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for 30MHz-1GHz



4.2.4. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for Above 1GHz



4.3. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark: (1) dB μ V/m = 20 log (μ V/m)

(2)The tighter limit applies to the edge between two frequency bands.

(3)Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4)Fundamental and emission fall within operation band are exempted from this section.

(5)Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

4.4. Test Procedure

Frequency Range 9kHz~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.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1)RBW = 120KHz
- (2)VBW $\geq 3 \times$ RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Frequency above 1GHz to 10th harmonic (up to 25GHz):

Peak Dector:

- (1)RBW = 1MHz
- (2)VBW $\geq 3 \times$ RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

4.5. Measurement Results

PASSED

The EUT was tested in restricted bands and all the test results are listed in next page.

The frequency range from 9kHz to 10th harmonic(25GHz) are checked, and the emission (9kHz~30MHz,18GHz~25GHz)not reported for there is no emission be found.

4.5.1. Emission Measurement Results (For Below 1GHz)



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 9168-706-2003-3M
 Limit : FCC PART 15B QP
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 2.4GHz
 Memo :

Ant. pol.: Vertical Data NO.:76
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
57.392	18.37	0.82	32.61	27.85	23.95	40.00	16.05	Peak
89.276	14.59	0.99	37.90	27.48	26.00	43.50	17.50	Peak
156.458	18.62	1.29	33.40	26.99	26.32	43.50	17.18	Peak
287.990	18.68	1.76	33.39	26.58	27.25	46.00	18.75	Peak
312.179	18.89	1.83	33.83	26.67	27.88	46.00	18.12	Peak
629.477	25.71	2.61	33.69	28.13	33.88	46.00	12.12	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 9168-706-2003-3M
 Limit : FCC PART 15B QP
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 2.4GHz
 Memo :

Ant. pol.: Horizontal Data NO.:77
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
107.888	16.27	1.07	42.69	27.31	32.72	43.50	10.78	Peak
159.225	18.60	1.30	38.25	26.97	31.18	43.50	12.32	Peak
199.986	15.20	1.43	42.06	26.77	31.92	43.50	11.58	Peak
263.819	17.75	1.68	40.08	26.63	32.88	46.00	13.12	Peak
383.932	21.19	1.98	35.02	27.23	30.96	46.00	15.04	Peak
607.787	25.41	2.56	34.94	28.15	34.76	46.00	11.24	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

4.5.2. Emission Measurement Results (For Above 1GHz)

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:75
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4842.000	34.00	1.90	42.56	33.73	44.73	74.00	29.27	Peak
7239.000	35.65	2.67	42.51	33.65	47.18	74.00	26.82	Peak
15314.000	39.89	4.52	37.80	33.19	49.02	74.00	24.98	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2412MHz
 Memo :

Ant. pol.: Vertical Data NO.:74
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4808.000	34.00	1.88	42.43	33.74	44.57	74.00	29.43	Peak
10503.000	37.50	3.40	38.22	34.20	44.92	74.00	29.08	Peak
16895.000	41.74	4.95	36.93	32.33	51.29	74.00	22.71	Peak
16896.580	41.74	4.95	29.60	32.32	43.97	54.00	10.03	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:48
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4944.000	34.00	1.95	41.93	33.71	44.17	74.00	29.83	Peak
9840.000	36.94	3.40	41.39	34.18	47.55	74.00	26.45	Peak
14328.000	38.96	4.48	37.89	32.83	48.50	74.00	25.50	Peak
16708.000	41.62	4.87	38.07	32.55	52.01	74.00	21.99	Peak
16709.150	41.63	4.87	28.50	32.55	42.45	54.00	11.55	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2462MHz
 Memo :

Ant. pol.: Vertical Data NO.:49
 Engineer : Shaoxin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4910.000	34.00	1.94	42.54	33.72	44.76	74.00	29.24	Peak
10163.000	37.23	3.43	39.08	34.20	45.54	74.00	28.46	Peak
16487.000	41.48	4.77	39.28	32.82	52.71	74.00	21.29	Peak
16488.140	41.48	4.77	28.15	32.81	41.59	54.00	12.41	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:60
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4808.000	34.00	1.88	45.54	33.74	47.68	74.00	26.32	Peak
7239.000	35.65	2.67	41.08	33.65	45.75	74.00	28.25	Peak
12679.000	38.94	4.04	38.02	33.74	47.26	74.00	26.74	Peak
16249.000	41.10	4.66	38.81	33.10	51.47	74.00	22.53	Peak
16250.170	41.10	4.66	29.25	33.10	41.91	54.00	12.09	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2412MHz
 Memo :

Ant. pol.: Vertical Data NO.:61
 Engineer : Shaoxin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4825.000	34.00	1.89	45.67	33.74	47.82	74.00	26.18	Peak
12509.000	38.90	3.95	38.70	33.65	47.90	74.00	26.10	Peak
16708.000	41.62	4.87	38.25	32.55	52.19	74.00	21.81	Peak
16709.250	41.63	4.87	27.80	32.55	41.75	54.00	12.25	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:51
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
7392.000	35.68	2.73	40.38	33.68	45.11	74.00	28.89	Peak
12271.000	38.81	3.83	39.07	33.54	48.17	74.00	25.83	Peak
16504.000	41.50	4.78	38.97	32.80	52.45	74.00	21.55	Peak
16505.470	41.50	4.78	29.90	32.79	43.39	54.00	10.61	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2462MHz
 Memo :

Ant. pol.: Vertical Data NO.:50
 Engineer : Shaoxin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4910.000	34.00	1.94	42.83	33.72	45.05	74.00	28.95	Peak
8072.000	35.87	2.99	39.80	33.82	44.84	74.00	29.16	Peak
12084.000	38.73	3.73	38.91	33.44	47.93	74.00	26.07	Peak
16691.000	41.61	4.86	38.06	32.57	51.96	74.00	22.04	Peak
16692.260	41.62	4.86	26.10	32.57	40.01	54.00	13.99	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT20	Frequency	TX 2412MHz
------	-------------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
Economic Development Zone,JiangSu,China
Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
Dis. / Ant. : 3117-586-2003
Limit : FCC Part15 C PK
Env. / Ins. : 21°C & 53% /ESR
EUT : Wi-Fi Kit
M/N : Wi-Fi Kit
Power Rating : DC 5V
Test Mode : TX 802.11nHT20 2412MHz
Memo :

Ant. pol.: Horizontal Data NO.:63
Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
7239.000	35.65	2.67	43.47	33.65	48.14	74.00	25.86	Peak
11251.000	37.95	3.45	38.20	34.00	45.60	74.00	28.40	Peak
16589.000	41.55	4.82	38.24	32.69	51.92	74.00	22.08	Peak
16590.160	41.55	4.82	27.50	32.69	41.18	54.00	12.82	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2412MHz
 Memo :

Ant. pol.: Vertical Data NO.:62
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4825.000	34.00	1.89	42.76	33.74	44.91	74.00	29.09	Peak
9143.000	36.24	3.25	39.82	34.11	45.20	74.00	28.80	Peak
12781.000	38.96	4.09	38.29	33.79	47.55	74.00	26.45	Peak
16776.000	41.67	4.90	37.78	32.47	51.88	74.00	22.12	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT20	Frequency	TX 2462MHz
------	-------------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:72
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
7392.000	35.68	2.73	45.26	33.68	49.99	74.00	24.01	Peak
7394.250	35.68	2.73	37.16	33.68	41.89	54.00	12.11	Average
12611.000	38.92	4.00	38.14	33.71	47.35	74.00	26.65	Peak
16895.000	41.74	4.95	38.20	32.33	52.56	74.00	21.44	Peak
16897.120	41.74	4.95	27.90	32.32	42.27	54.00	11.73	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2462MHz
 Memo :

Ant. pol.: Vertical Data NO.:73
 Engineer : Shaoxin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4927.000	34.00	1.94	45.79	33.71	48.02	74.00	25.98	Peak
4928.650	34.00	1.94	32.60	33.71	34.83	54.00	19.17	Average
8701.000	35.86	3.15	38.30	34.01	43.30	74.00	30.70	Peak
16623.000	41.57	4.83	37.72	32.65	51.47	74.00	22.53	Peak
16624.580	41.57	4.83	29.01	32.65	42.76	54.00	11.24	Average

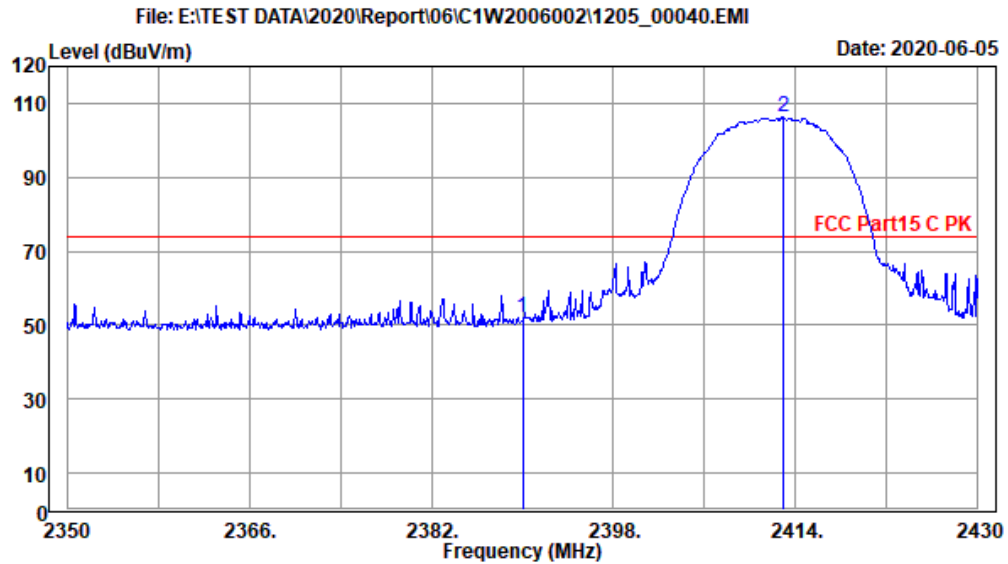
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

4.5.3. Spurious Emission Measurement Results in Band Edge Emission

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:40
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.23	0.97	52.81	34.22	51.79	74.00	22.21	Peak
2412.880	32.25	0.97	107.25	34.22	106.25	74.00	-32.25	Peak

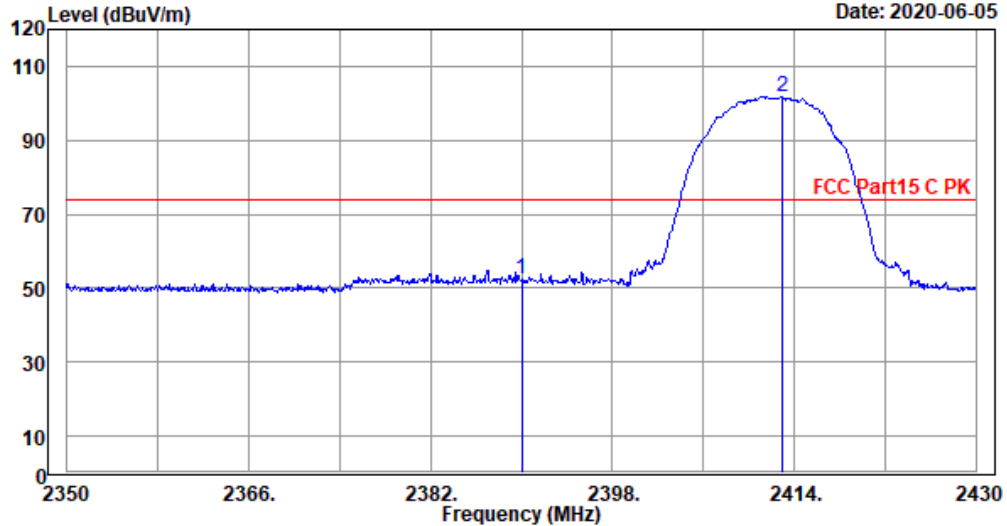
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00042.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2412MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:42

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.23	0.97	53.42	34.22	52.40	74.00	21.60	Peak
2412.880	32.25	0.97	102.81	34.22	101.81	74.00	-27.81	Peak

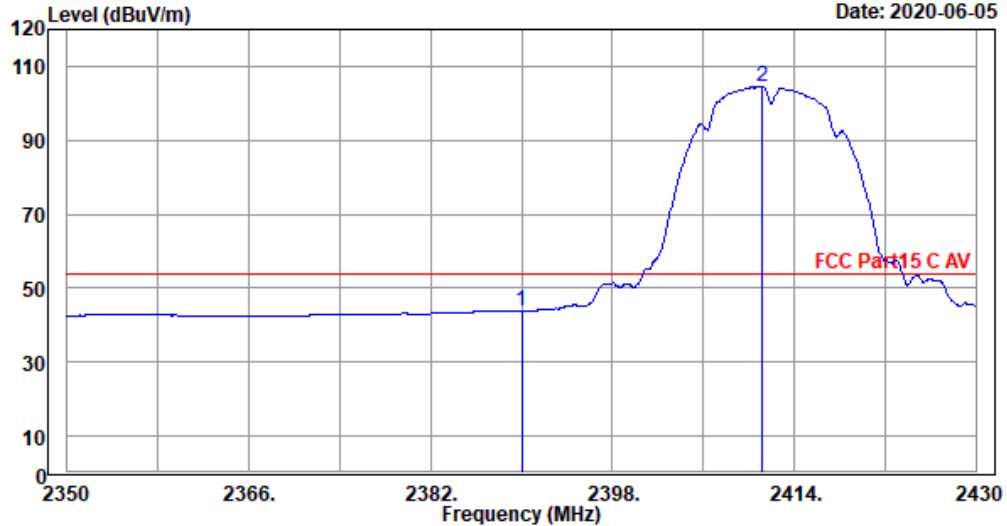
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00041.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:41
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.23	0.97	44.96	34.22	43.94	54.00	10.06	Average
2411.120	32.25	0.97	105.59	34.22	104.59	54.00	-50.59	Average

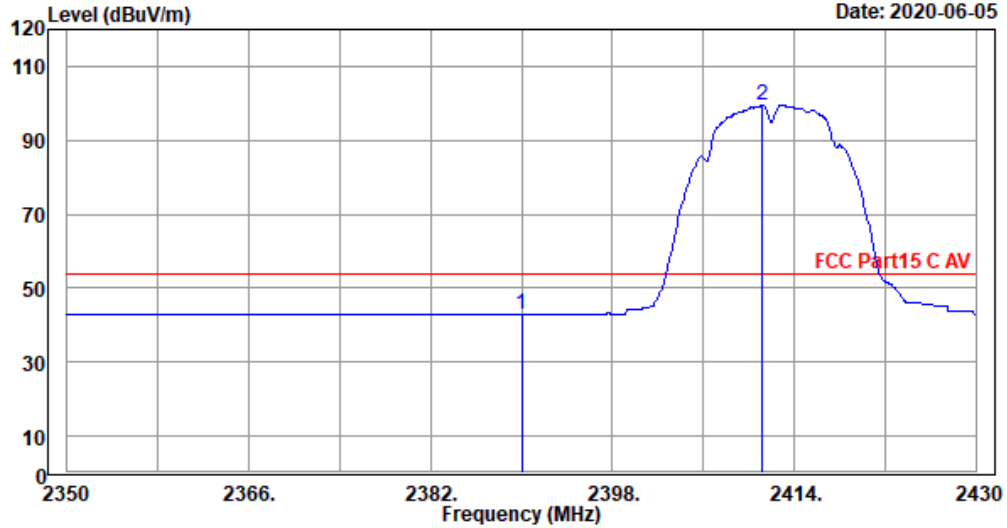
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00043.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2412MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:43

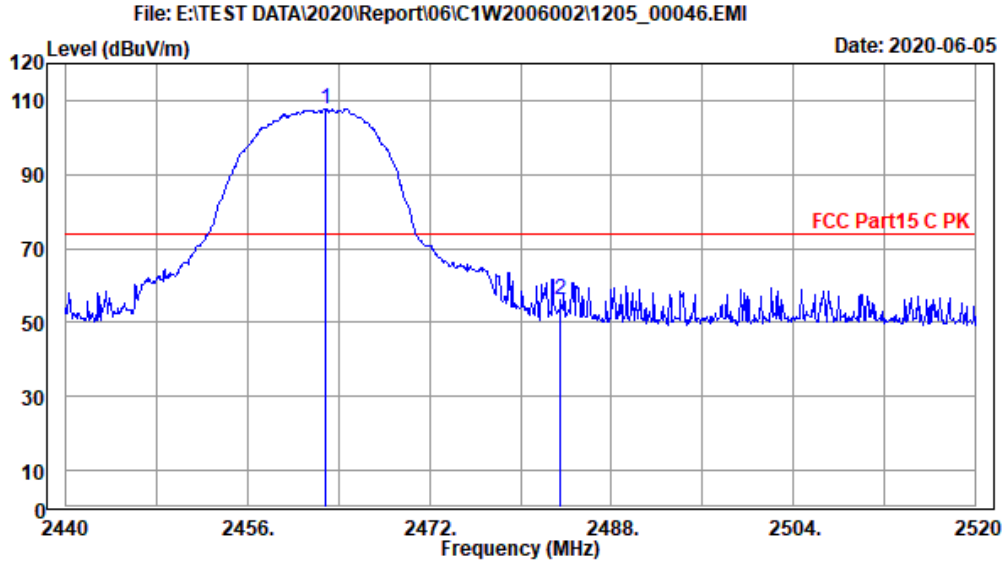
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.23	0.97	43.97	34.22	42.95	54.00	11.05	Average
2411.200	32.25	0.97	100.46	34.22	99.46	54.00	-45.46	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:46
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2462.880	32.28	0.99	108.66	34.21	107.72	74.00	-33.72	Peak
2483.520	32.29	0.99	57.01	34.20	56.09	74.00	17.91	Peak

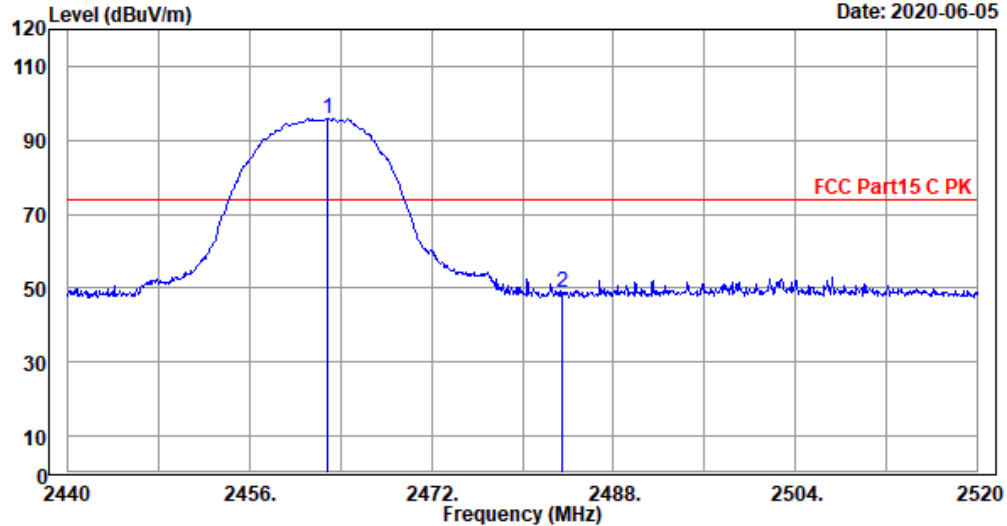
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00044.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2462MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:44

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2462.880	32.28	0.99	96.97	34.21	96.03	74.00	-22.03	Peak
2483.520	32.29	0.99	49.94	34.20	49.02	74.00	24.98	Peak

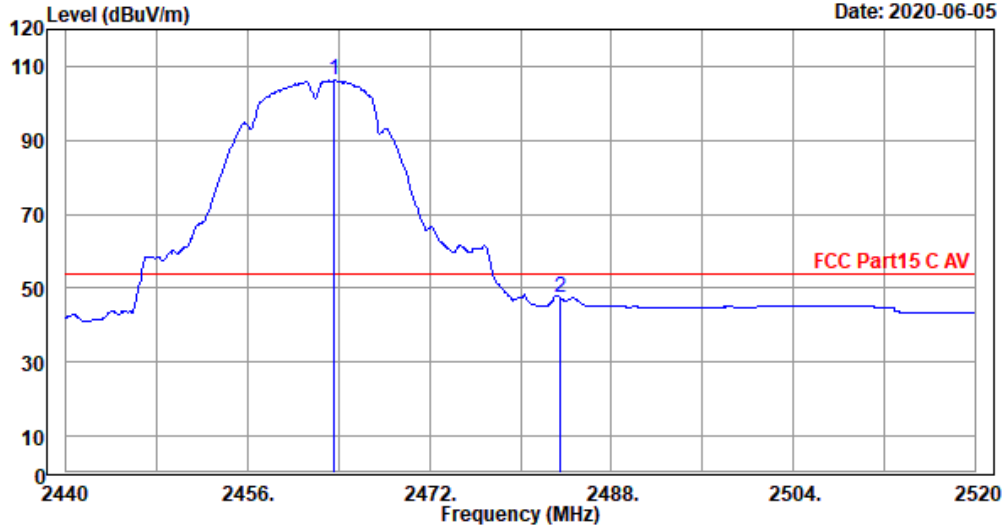
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00047.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:47
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2463.680	32.28	0.99	107.06	34.21	106.12	54.00	-52.12	Average
2483.520	32.29	0.99	48.30	34.20	47.38	54.00	6.62	Average

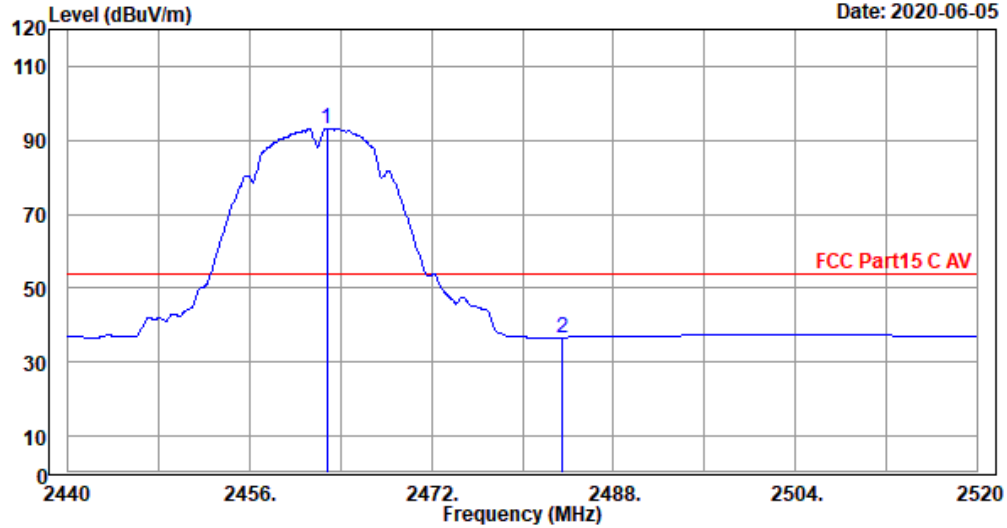
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00045.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11b 2462MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:45

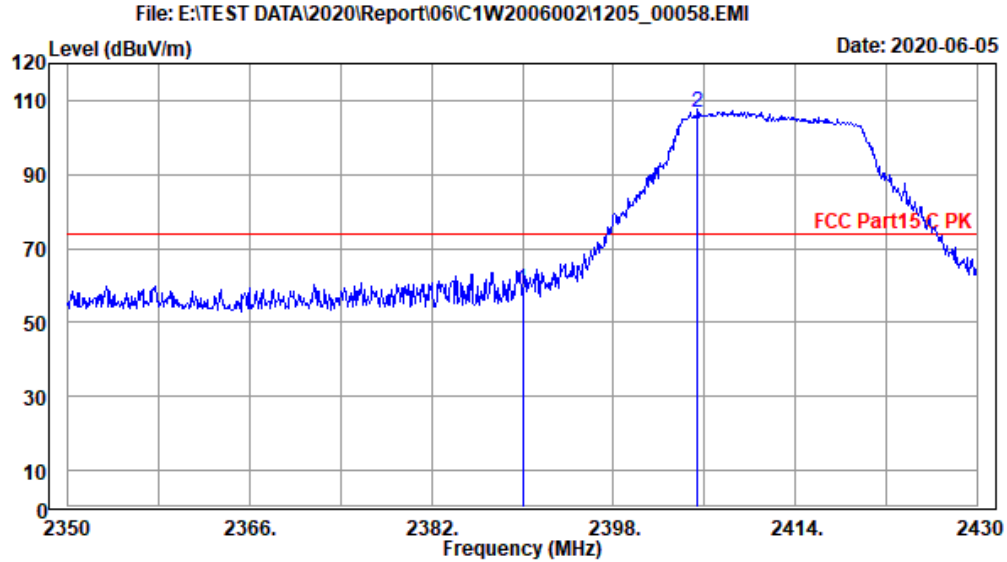
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2462.800	32.28	0.99	94.20	34.21	93.26	54.00	-39.26	Average
2483.520	32.29	0.99	37.62	34.20	36.70	54.00	17.30	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:58
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.23	0.97	59.71	34.22	58.69	74.00	15.31	Peak
2405.360	32.24	0.97	107.65	34.22	106.64	74.00	-32.64	Peak

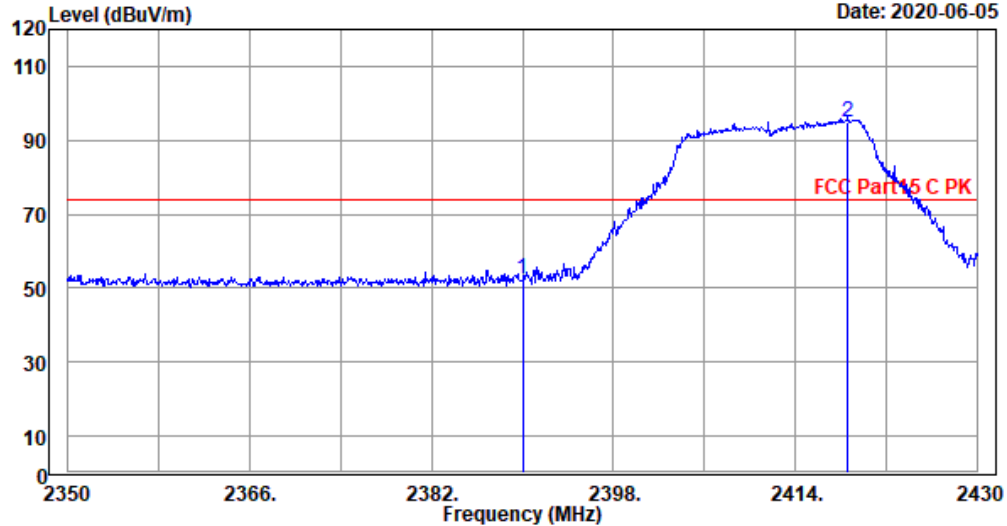
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00056.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2412MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:56

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.23	0.97	53.59	34.22	52.57	74.00	21.43	Peak
2418.560	32.25	0.98	96.05	34.22	95.06	74.00	-21.06	Peak

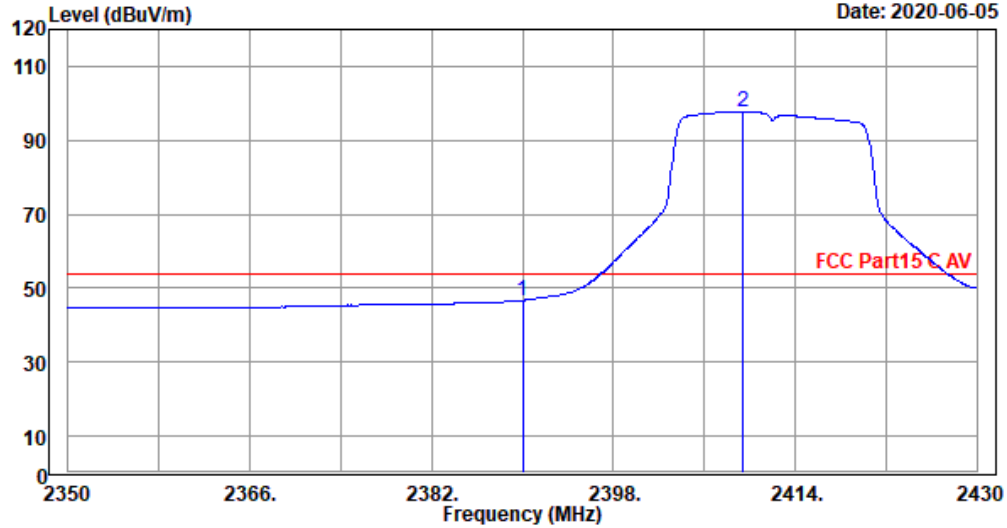
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00059.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:59
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.23	0.97	47.73	34.22	46.71	54.00	7.29	Average
2409.360	32.25	0.97	98.67	34.22	97.67	54.00	-43.67	Average

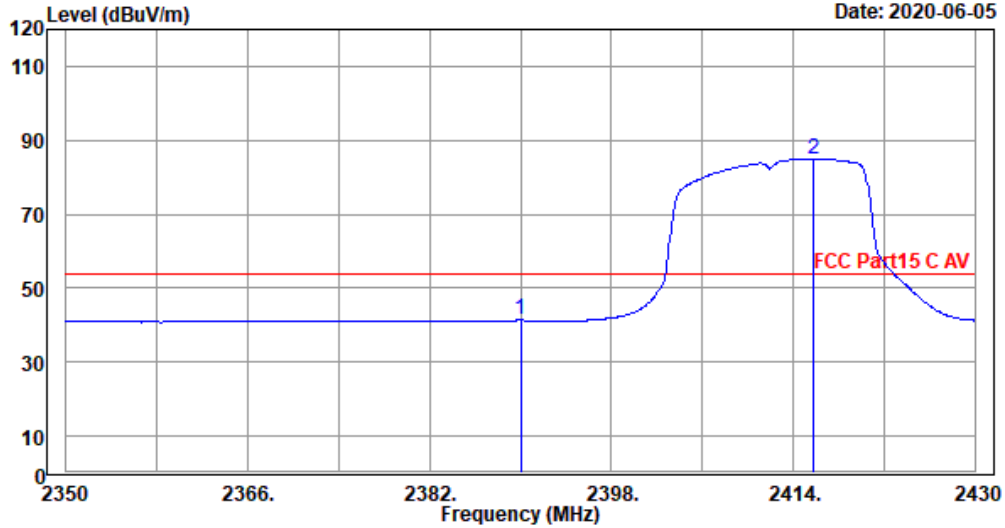
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00057.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2412MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:57

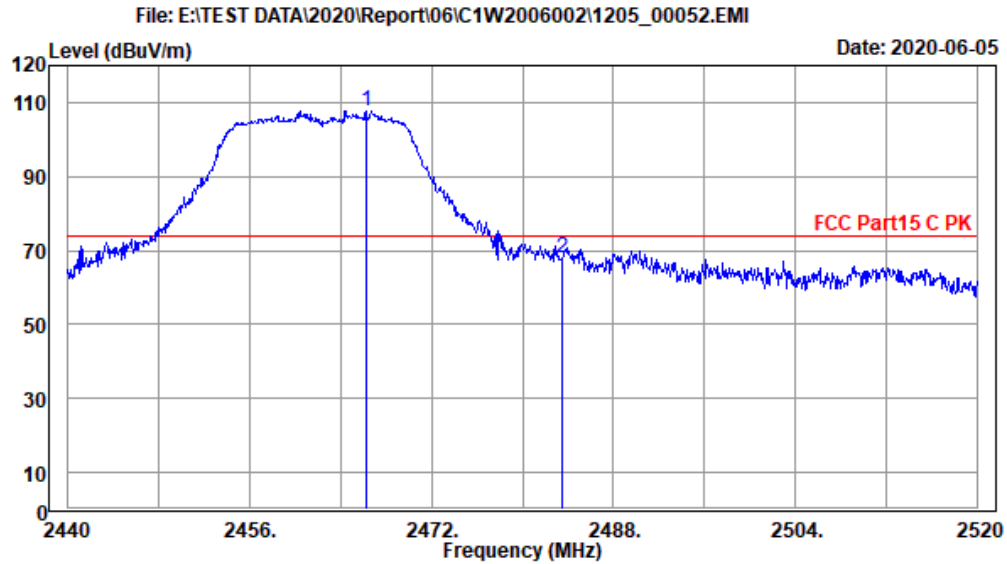
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.23	0.97	42.34	34.22	41.32	54.00	12.68	Average
2415.680	32.25	0.98	85.89	34.22	84.90	54.00	-30.90	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:52
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2466.240	32.28	0.99	108.80	34.21	107.86	74.00	-33.86	Peak
2483.520	32.29	0.99	69.10	34.20	68.18	74.00	5.82	Peak

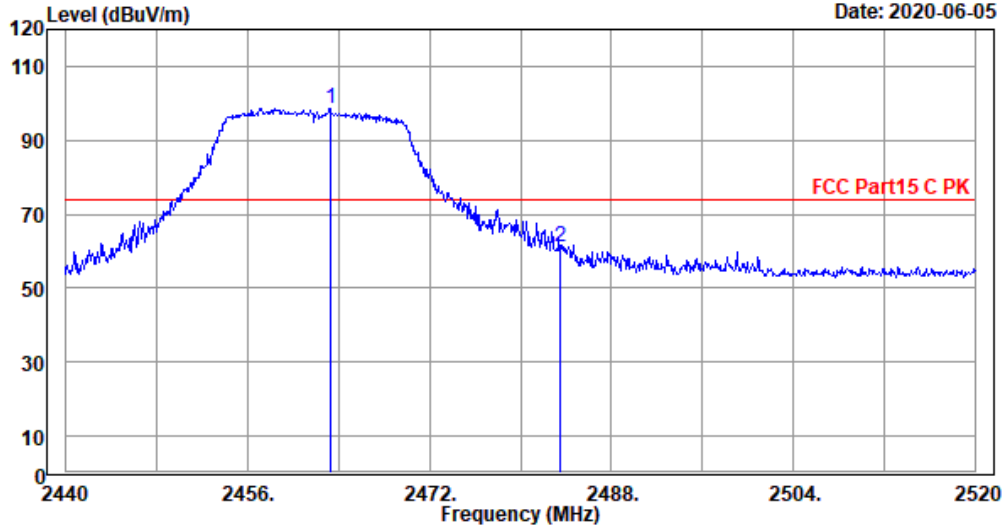
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00054.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2462MHz
 Memo :

Ant. pol.: Vertical Data NO.:54
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2463.280	32.28	0.99	99.40	34.21	98.46	74.00	-24.46	Peak
2483.520	32.29	0.99	62.05	34.20	61.13	74.00	12.87	Peak

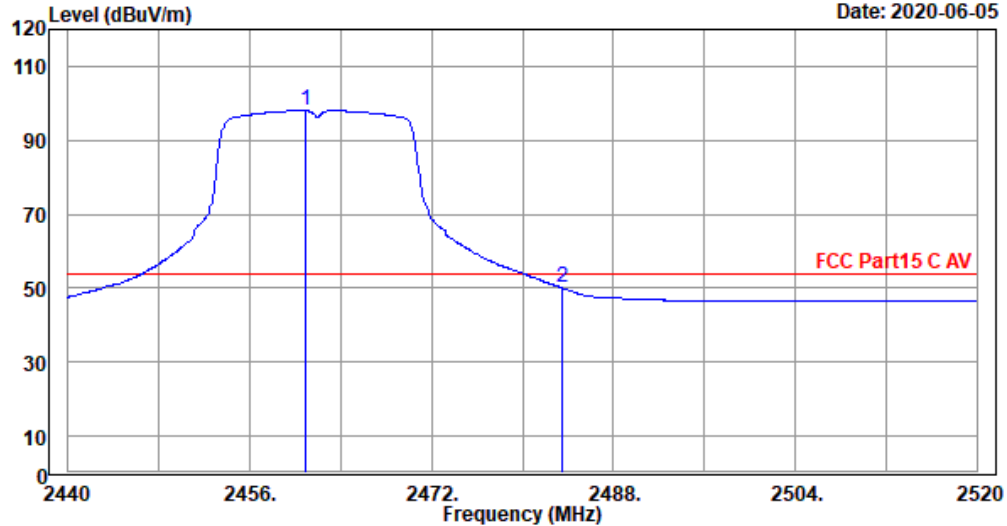
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00053.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:53
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2460.880	32.28	0.99	98.94	34.21	98.00	54.00	-44.00	Average
2483.500	32.29	0.99	50.91	34.20	49.99	54.00	4.01	Average

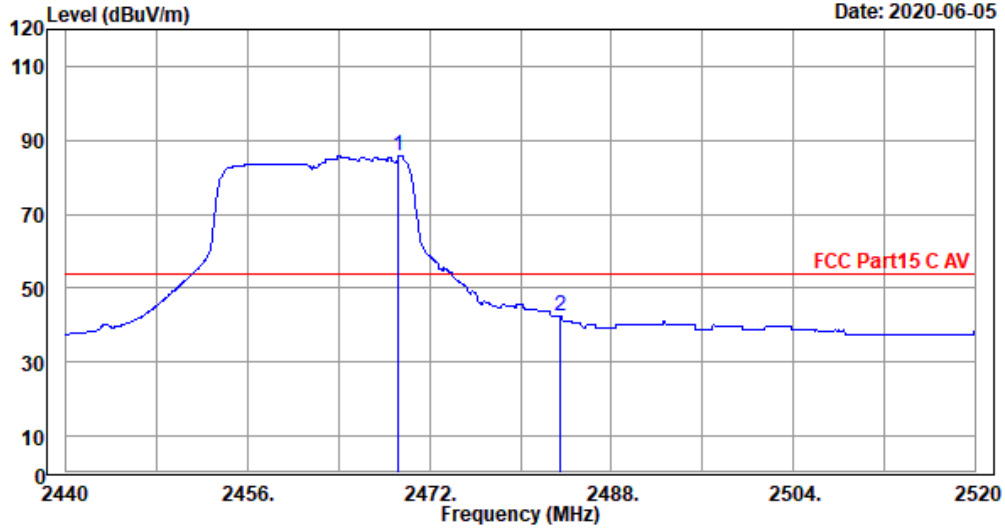
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00055.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11g 2462MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:55

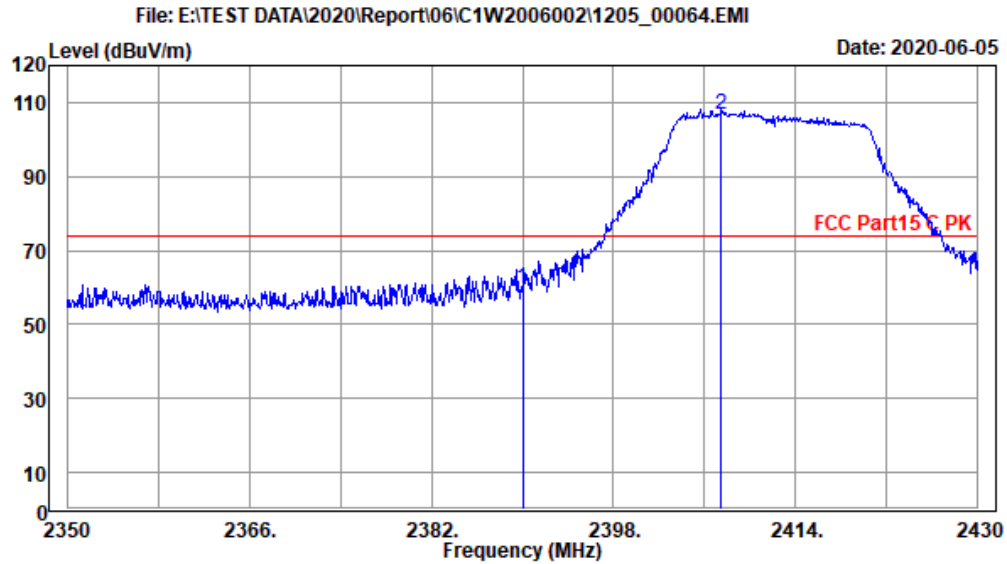
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2469.280	32.28	0.99	86.90	34.21	85.96	54.00	-31.96	Average
2483.500	32.29	0.99	43.18	34.20	42.26	54.00	11.74	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

Mode	802.11nHT20	Frequency	TX 2412MHz
------	-------------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:64
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.23	0.97	60.96	34.22	59.94	74.00	14.06	Peak
2407.440	32.24	0.97	107.74	34.22	106.73	74.00	-32.73	Peak

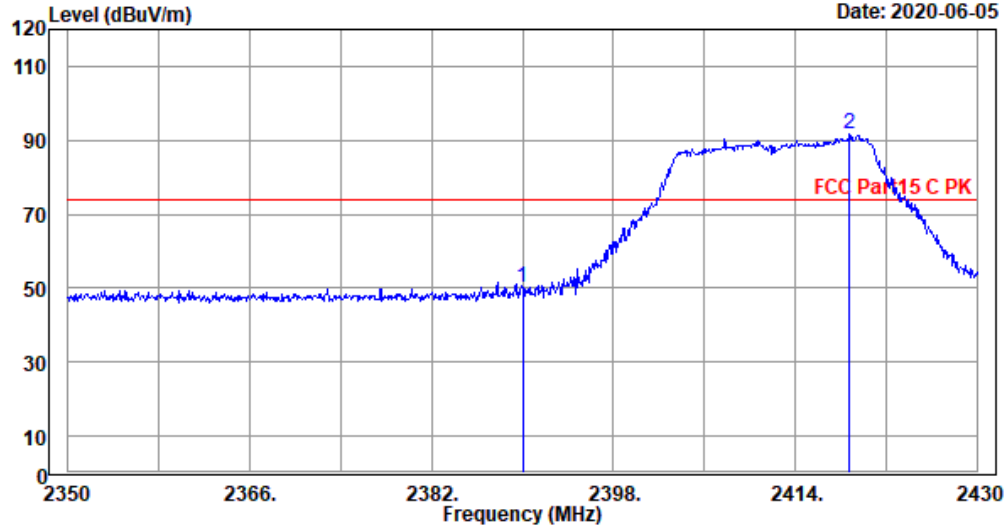
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00066.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2412MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:66

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.23	0.97	51.01	34.22	49.99	74.00	24.01	Peak
2418.720	32.25	0.98	92.54	34.22	91.55	74.00	-17.55	Peak

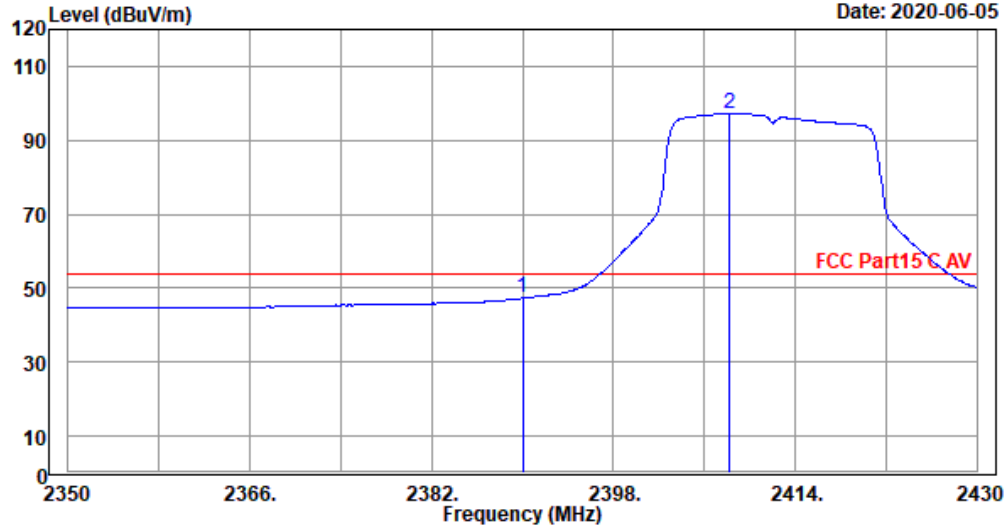
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00065.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:65
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.23	0.97	48.35	34.22	47.33	54.00	6.67	Average
2408.160	32.24	0.97	98.15	34.22	97.14	54.00	-43.14	Average

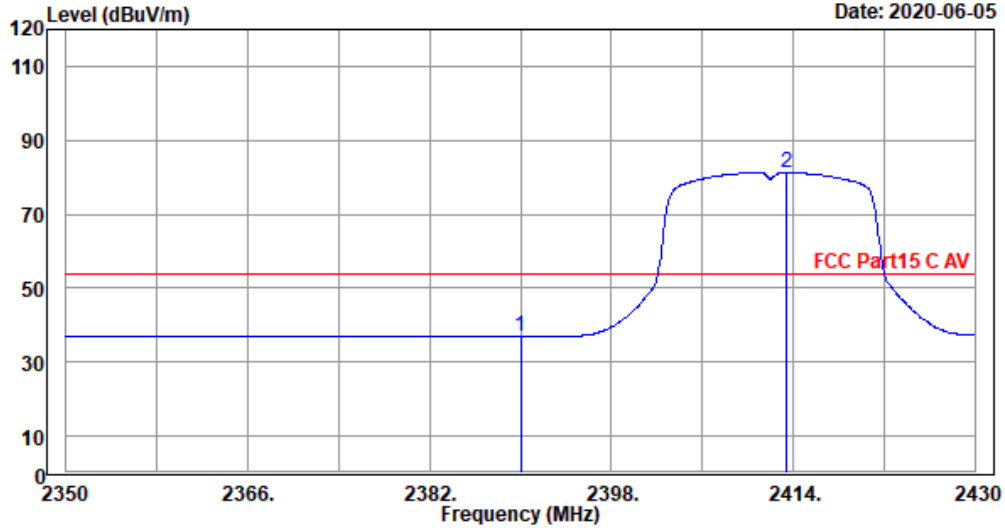
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00067.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2412MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin

Data NO.:67

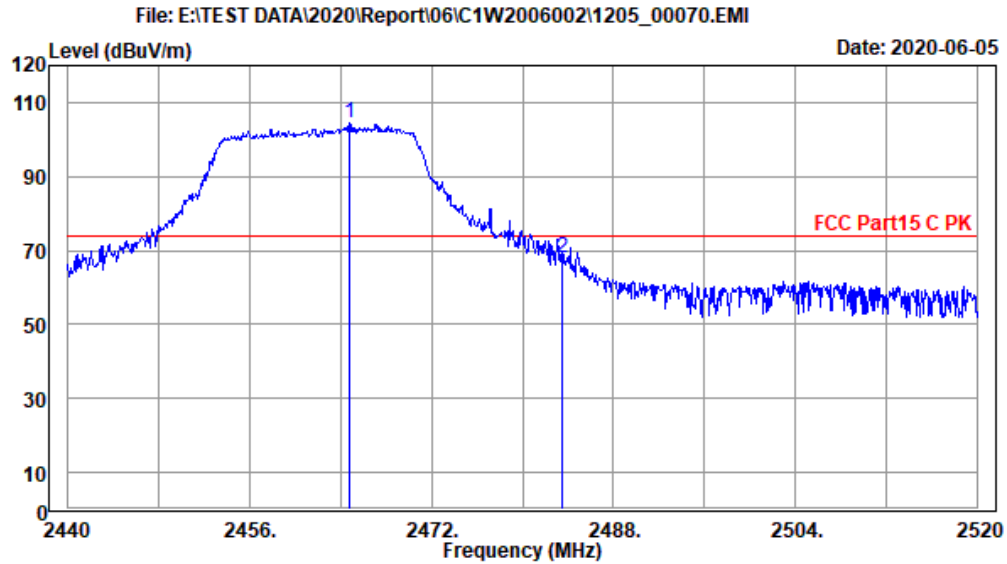
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.23	0.97	37.94	34.22	36.92	54.00	17.08	Average
2413.360	32.25	0.98	82.24	34.22	81.25	54.00	-27.25	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

Mode	802.11nHT20	Frequency	TX 2462MHz
------	-------------	-----------	------------



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:70
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2464.800	32.28	0.99	105.39	34.21	104.45	74.00	-30.45	Peak
2483.520	32.29	0.99	69.12	34.20	68.20	74.00	5.80	Peak

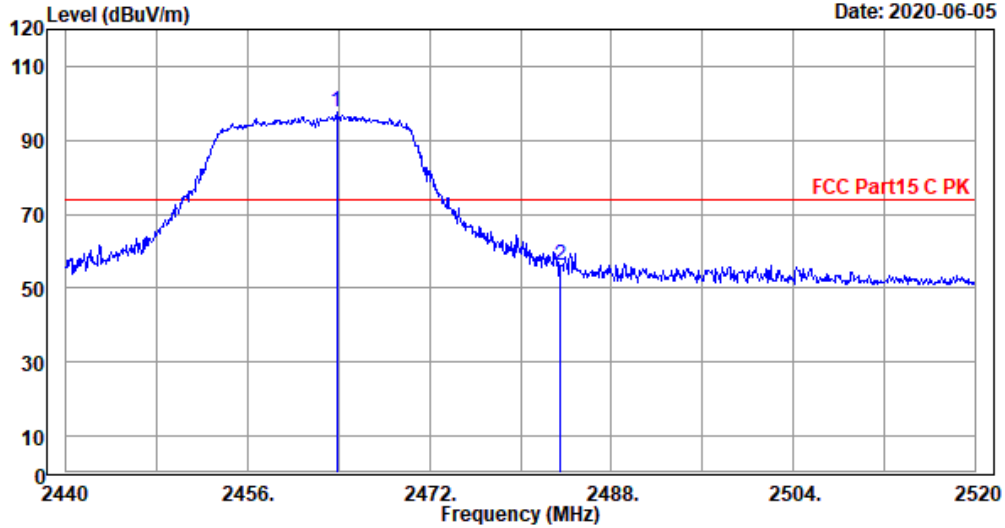
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00068.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C PK
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2462MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:68

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2463.840	32.28	0.99	98.41	34.21	97.47	74.00	-23.47	Peak
2483.500	32.29	0.99	56.83	34.20	55.91	74.00	18.09	Peak

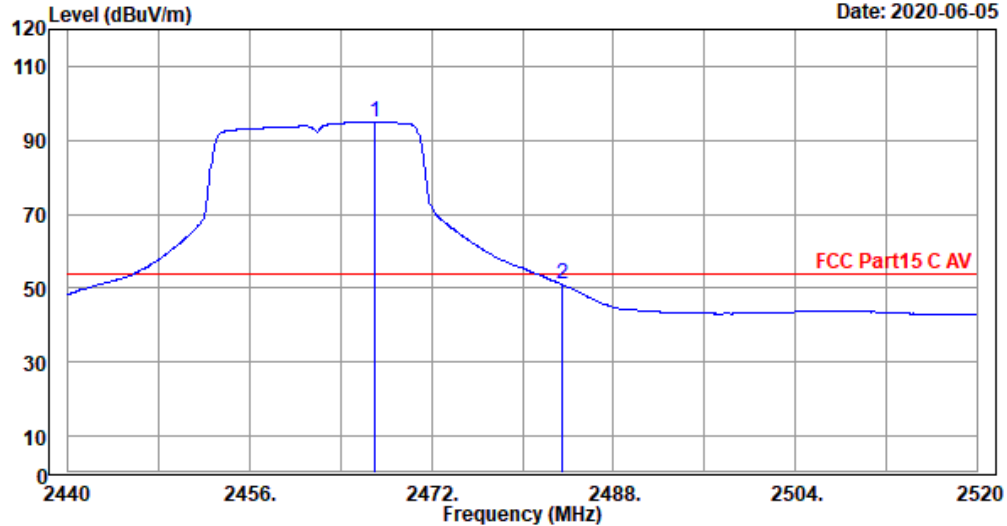
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00071.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:71
 Engineer : ShaoXin

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2467.040	32.28	0.99	95.92	34.21	94.98	54.00	-40.98	Average
2483.520	32.29	0.99	51.85	34.20	50.93	54.00	3.07	Average

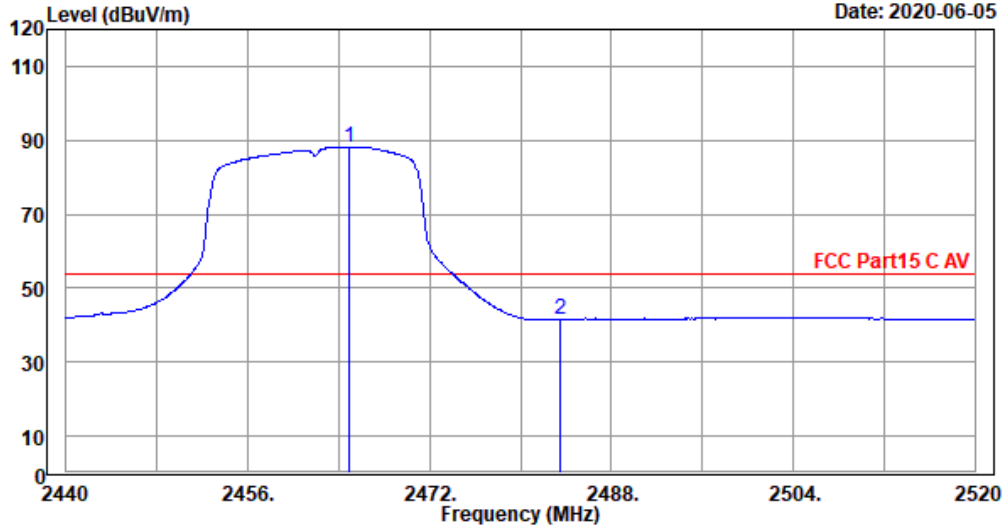
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

File: E:\TEST DATA\2020\Report\06\C1W2006002\1205_00069.EMI

Date: 2020-06-05



Site NO. : NO.2 3M chamber
 Dis. / Ant. : 3117-586-2003
 Limit : FCC Part15 C AV
 Env. / Ins. : 21°C & 53% /ESR
 EUT : Wi-Fi Kit
 M/N : Wi-Fi Kit
 Power Rating : DC 5V
 Test Mode : TX 802.11nHT20 2462MHz
 Memo :

Ant. pol.: Vertical
 Engineer : ShaoXin
 Data NO.:69

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2464.880	32.28	0.99	89.17	34.21	88.23	54.00	-34.23	Average
2483.500	32.29	0.99	42.46	34.20	41.54	54.00	12.46	Average

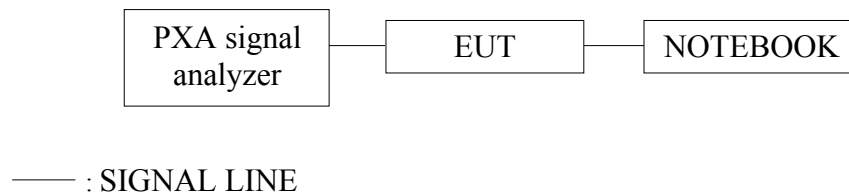
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

5. OUTPUT POWER MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	PXA signal analyzer	Agilent	N9030A	MY53120217	2020-04-07	1 Year

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

5.4. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v05:

☐ Method AVGSA-2 (Spectrum channel power)

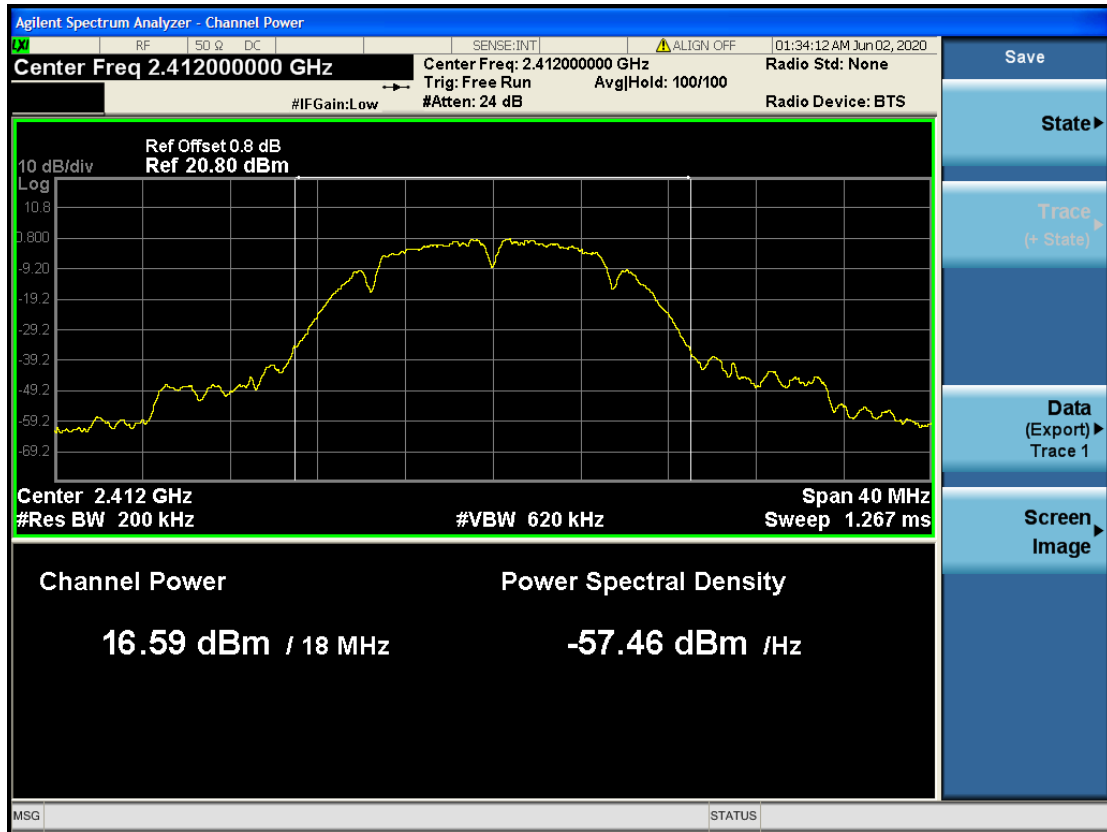
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in chapter3.5 is $< 98\%$.

5.5. Test Results

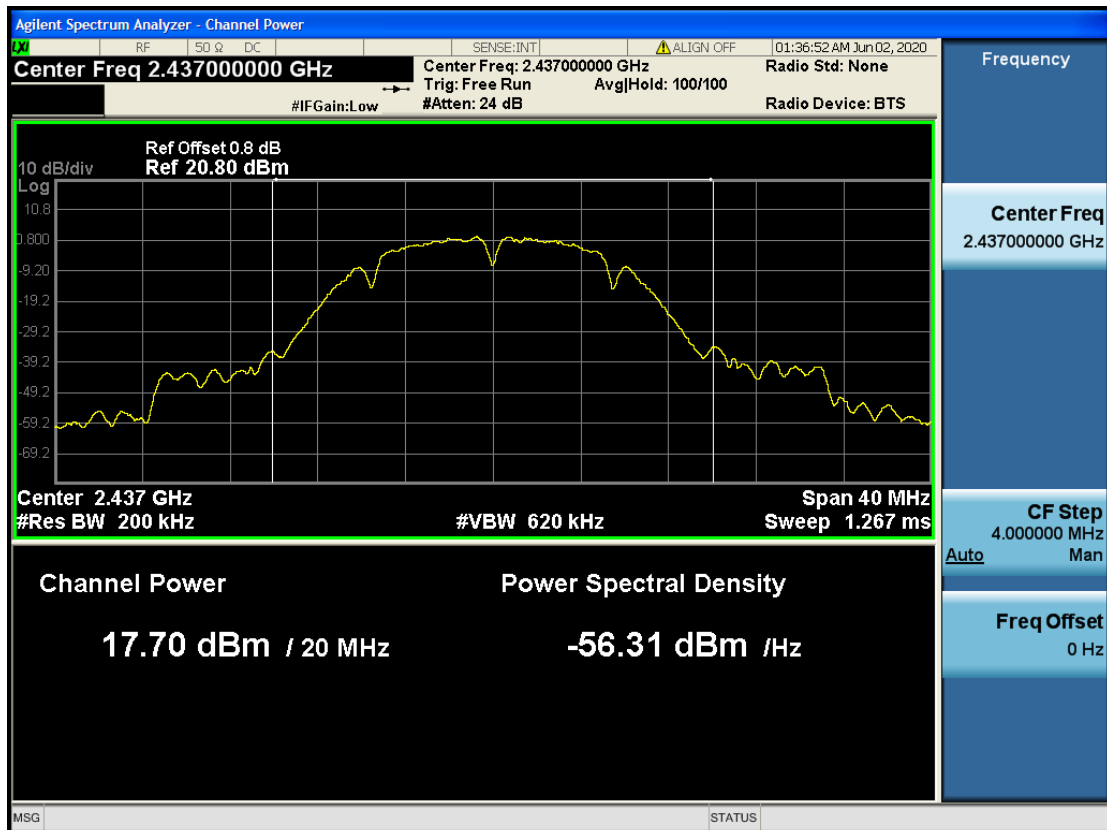
PASSED.

Mode	Frequency	Duty Cycle Factor	Reading (dBm)	Average Output Power (dBm)	Limit (dBm)
11b	2412	0.13	16.59	16.72	30
	2437		17.70	17.83	
	2462		18.21	18.34	
11g	2412	0.22	12.39	12.61	
	2437		13.32	13.54	
	2462		14.14	14.36	
11n-HT20	2412	0.22	12.19	12.41	
	2437		13.30	13.52	
	2462		13.50	13.72	

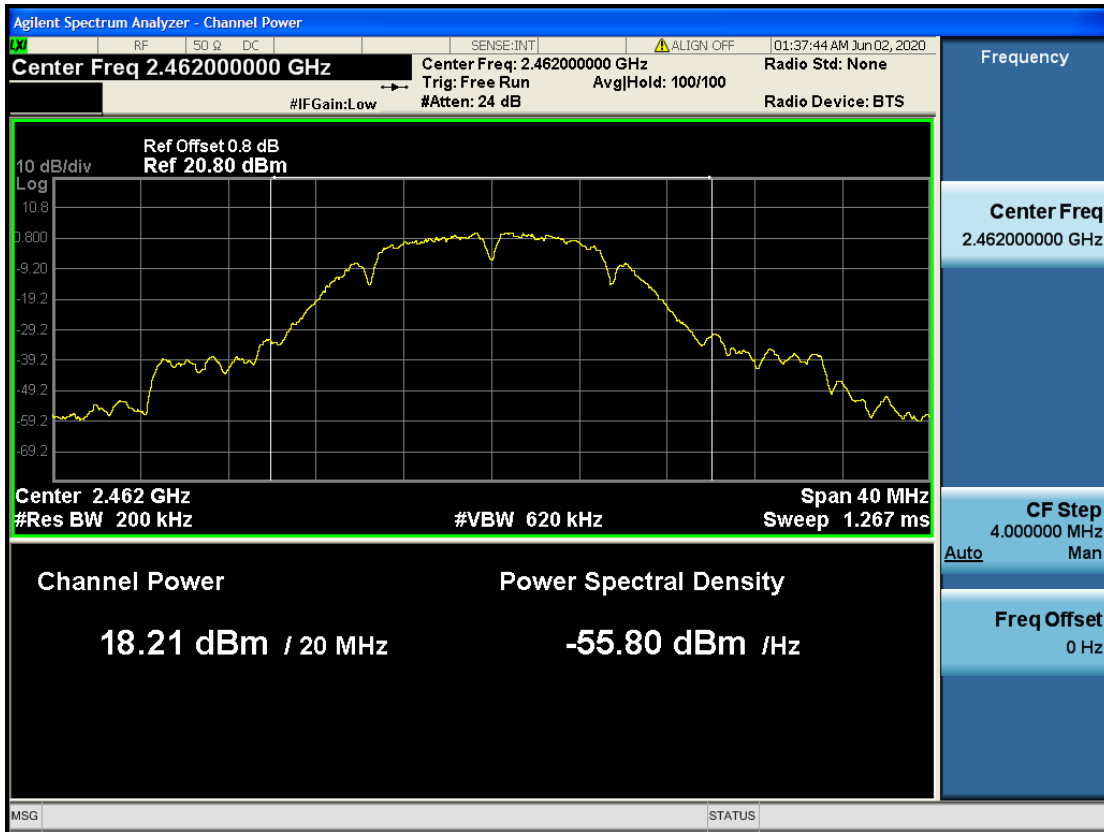
802.11b CH1



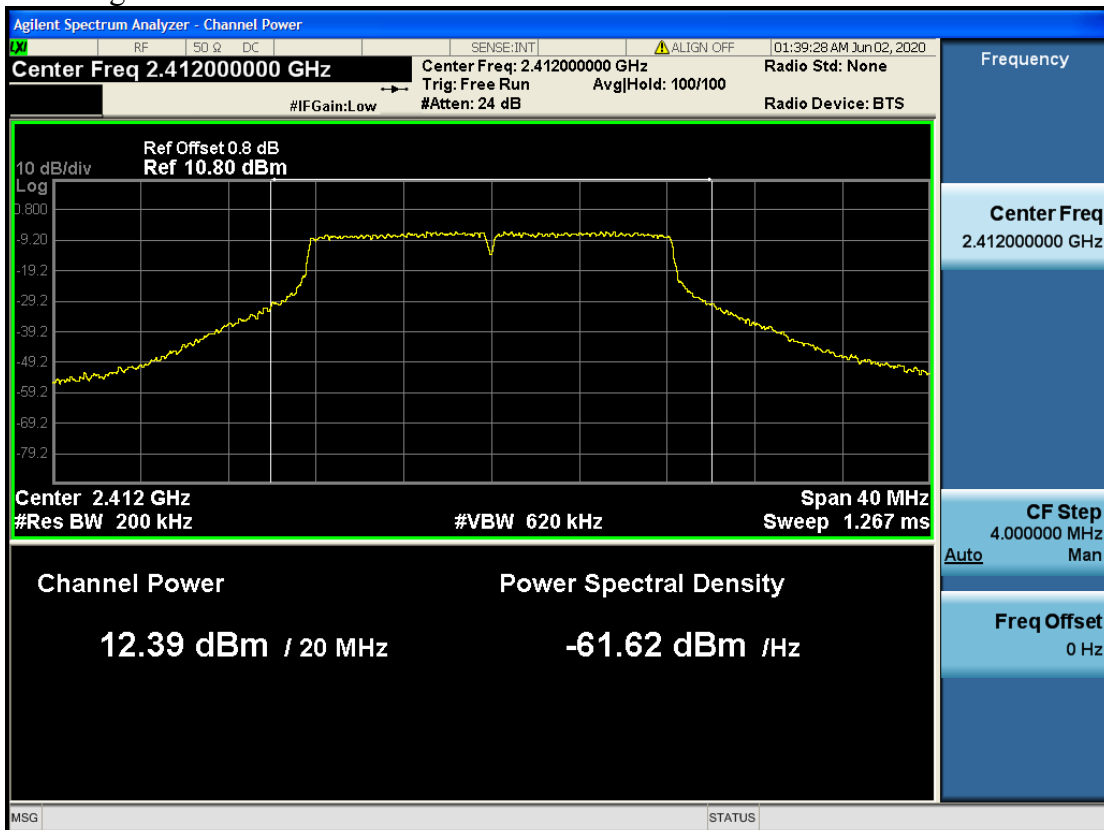
802.11b CH6



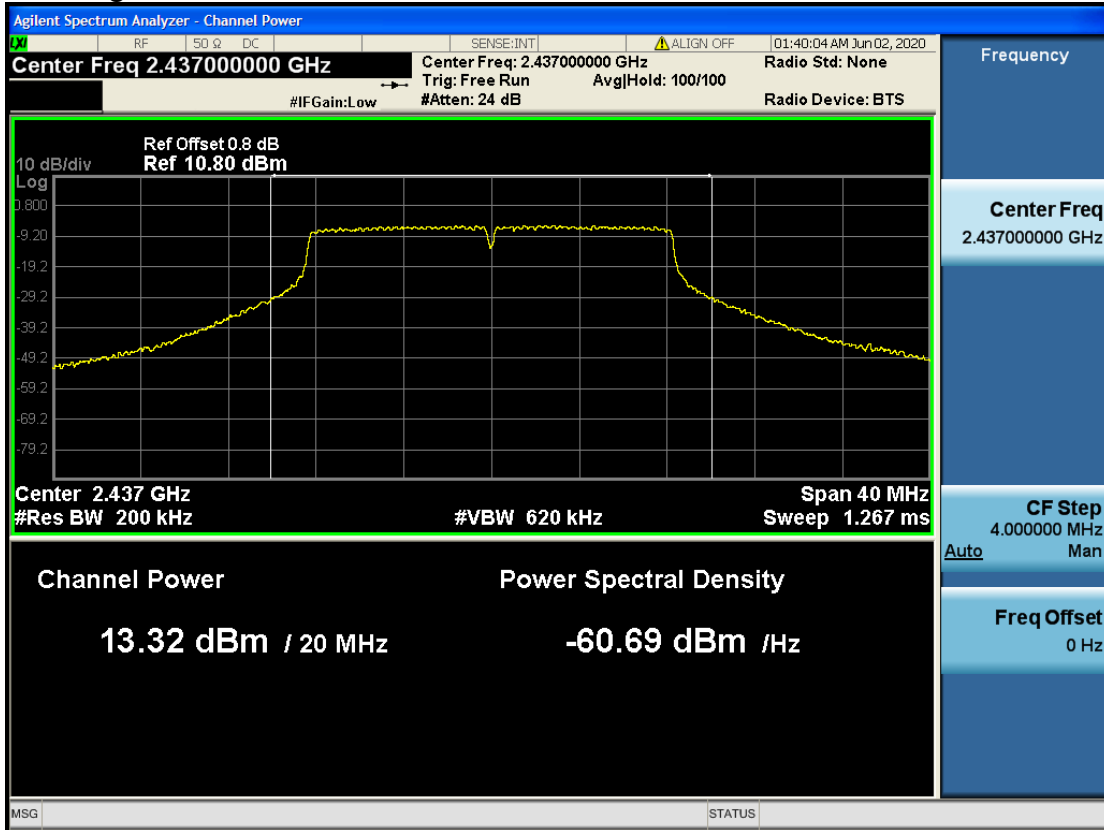
802.11b CH11



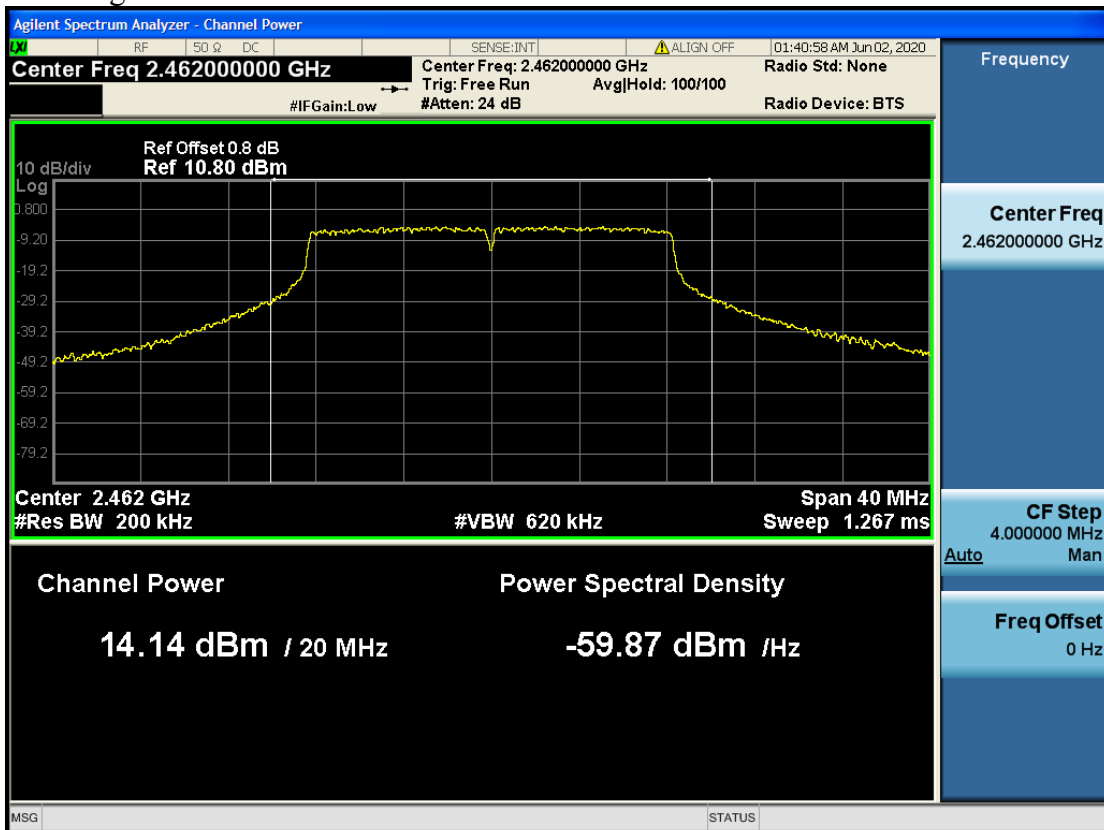
802.11g CH1



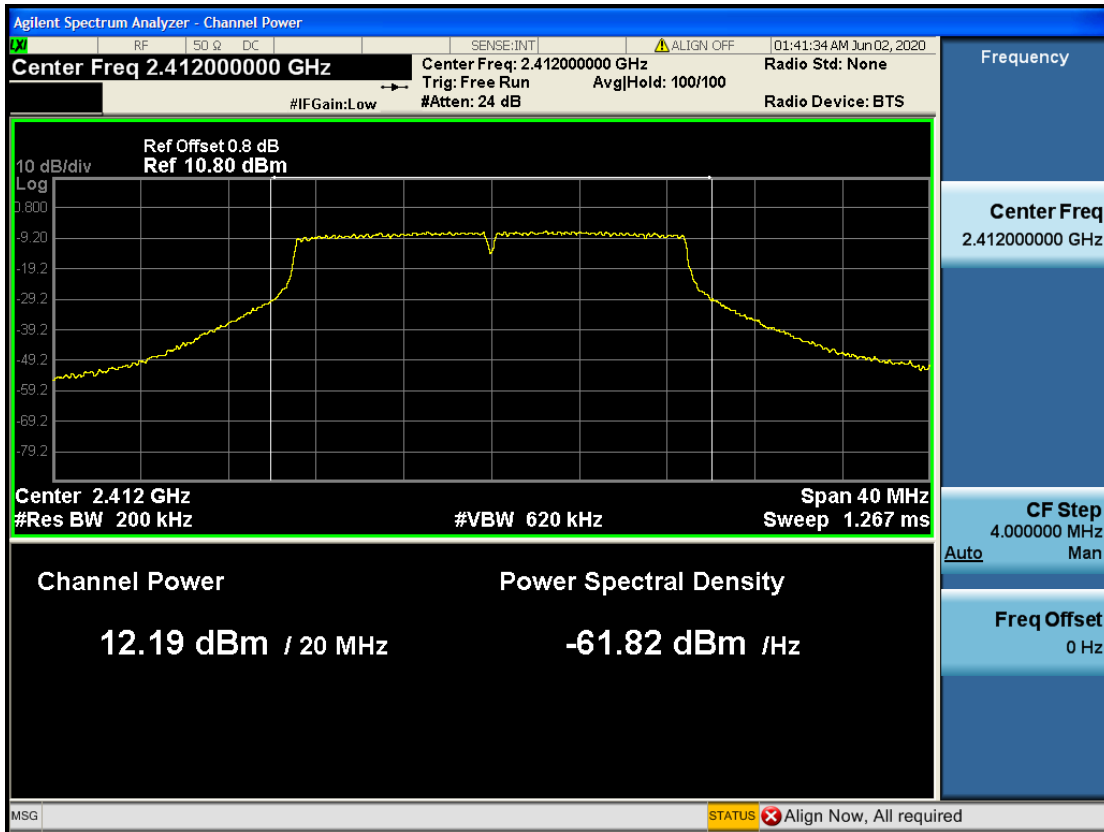
802.11g CH6



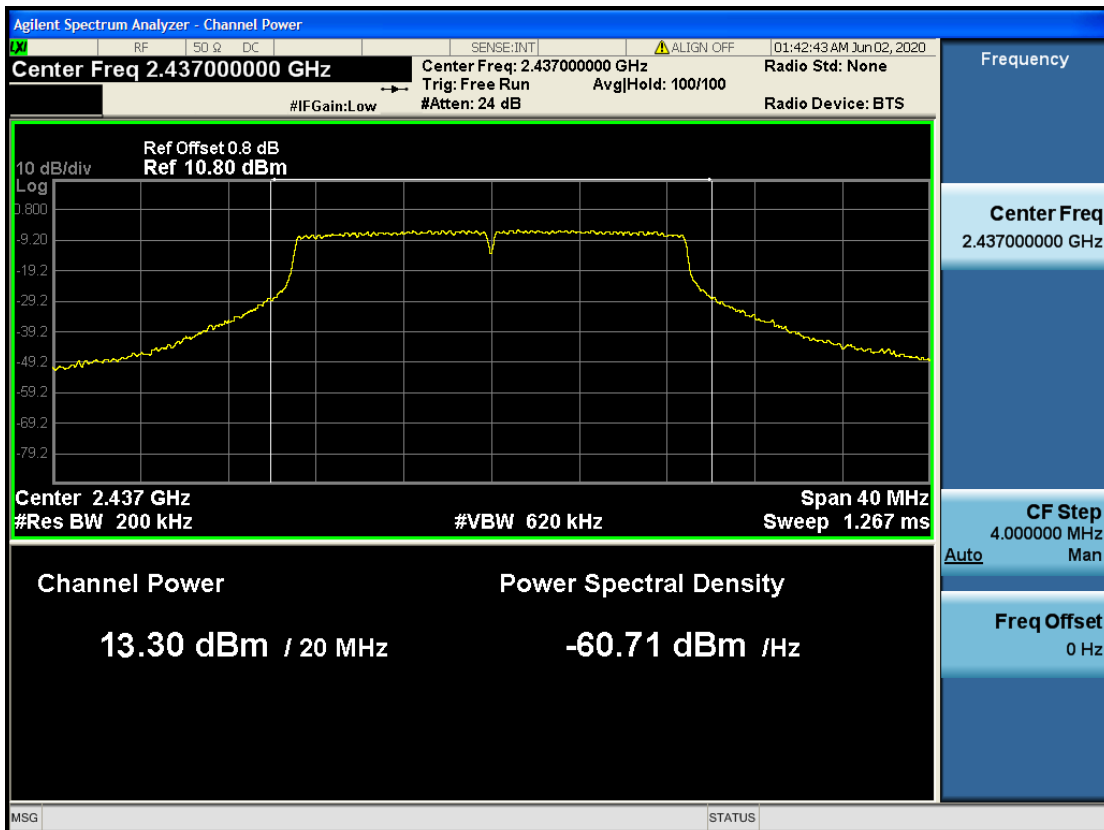
802.11g CH11



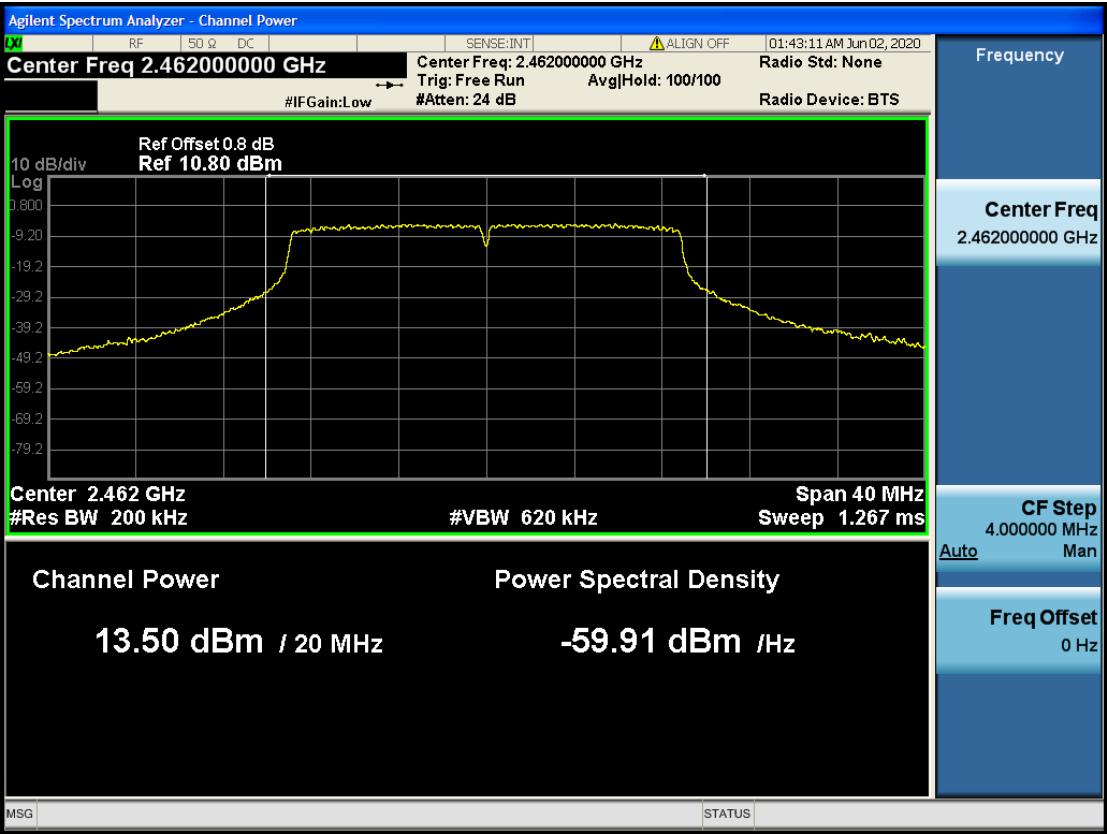
802.11nHT20 CH1



802.11nHT20 CH6



802.11nHT20 CH11



6. DEVIATION TO TEST SPECIFICATIONS

【NONE】