

RF Test Report

For

Shenzhen CYX Industrial Co., Ltd.

Test Standards:	<u>Part 15C Subpart C §15.247</u>
Product Description:	<u>TV BOX</u>
Tested Model:	<u>A95X F3 Air</u>
Additional Model No.	<u>A95X F3 Slim, A95X F3, A95X D1, A95X D2,</u> <u>A95X F4, A95X F4 Air, A95X F4 Slim, A95X F5 Air,</u> <u>A95X F5 Slim, A95X F6 Air, A95X F6 Slim,</u> <u>A95X F7 Air, A95X F7 Slim, A95X F8 Air,</u> <u>A95X F8 Slim, A95X F5, A95X F6, A95X F7, A95X F8</u>
FCC ID:	2AVBM-A95XF3AIR
Classification	<u>(DTS) Digital Transmission System</u>
Report No.:	<u>EC2001001RF01</u>
Tested Date:	<u>2019-12-03 to 2020-01-08</u>
Issued Date:	<u>2020-01-08</u>
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Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2020.01.08	Valid	Original Report

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Summary Of Test Result

FCC Rule	Description	Limit	Result	Remark
15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
-	99% Bandwidth	-	Pass	-
15.247(b)(3)	Peak Output Power	$\leq 30\text{dBm}$	Pass	-
15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
15.247(d)	Conducted Band Edges and Spurious Emission	$\leq 20\text{dBc}$	Pass	-
15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.54 dB at 43.58 MHz
15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.38 dB at 0.442 MHz
15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

1 Test Laboratory

1.1 Test facility

CNAS (accreditation number: L11138)

Hunan Ecloud Testing Technology Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1244 , Test Firm Registration Number: 793308)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

ISED(CAB identifier: CN0012, ISED# :24347)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the Wireless Device Testing Laboratories list of innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

A2LA (Certificate Code : 4895.01)

Hunan Ecloud Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

2 General Description

2.1 Applicant

Shenzhen CYX Industrial Co., Ltd.

5/F, one buildings, xiazao industrial zone, zaohe road, Longhua District, Shenzhen, China

2.2 Manufacturer

Shenzhen CYX Industrial Co., Ltd.

5/F, one buildings, xiazao industrial zone, zaohe road, Longhua District, Shenzhen, China

2.3 General Description Of EUT

Product	TV BOX
Model No.	A95X F3 Air
Additional NO.	A95X F3 Slim, A95X F3, A95X D1, A95X D2, A95X F4, A95X F4 Air, A95X F4 Slim, A95X F5 Air, A95X F5 Slim, A95X F6 Air, A95X F6 Slim, A95X F7 Air, A95X F7 Slim, A95X F8 Air, A95X F8 Slim, A95X F5, A95X F6, A95X F7, A95X F8
Difference Description	Only the model name is different
FCC ID	2AVBM-A95XF3AIR
Power Supply	120Vac
Modulation Technology	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Type	802.11b : DSSS 802.11g/n : OFDM
Operating Frequency	2412-2462MHz
Number Of Channel	11
Max. Output Power	802.11b : 14.90 dBm (0.0309 W) 802.11g : 13.58 dBm (0.0228 W) 802.11n HT20 : 12.91 dBm (0.0195 W) 802.11n HT40 : 12.43 dBm (0.0175 W)
Antenna Type	PCB Antenna type with 2dBi gain
HW Version	A95XF3_V81
SW Version	A95X_F3_AIR_M_9.0.0
I/O Ports	Refer to user's manual

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the

user's manual.

2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. The EUT was powered by the following adapters:

MODEL:	TSL-1681
INPUT:	110-240V~50/60Hz 0.3A
OUTPUT:	5V DC 2A
DC LINE:	1.0 m
Note: Add a magnetic ring at both ends of the power cord for testing	

4. The EUT matched the following HDMI cable:

Model:	A95X F3 Air
Signal Line:	0.8 Meter/Shielded

5. The EUT matched the following Remote controller:

Model:	A95X F3 Air
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2.4 Modification of EUT

No modifications are made to the EUT during all test items.

2.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2013
- ♦ IC RSS-247 Issue 2
- ♦ IC RSS-Gen Issue 5
- ♦ KDB 558074 D01 15.247 Meas Guidance v05r02

Remark:

1. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

3 Test Configuration of Equipment Under Test

3.1 Descriptions of Test Mode

11 channels are provided for 802.11b, 802.11g and 802.11n(HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n(HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
		7	2442 MHz
		8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz		
5	2432 MHz		
6	2437 MHz		

The transmitter has a maximum peak conducted output power as follows:

Frequency Range(MHz)	Mode	Rate	Output Power(dBm)
2412~2462	802.11b	1Mbps	14.90
2412~2462	802.11g	6Mbps	13.58
2412~2462	802.11n HT20	MCS0	12.91
2422~2452	802.11n HT40	MCS0	12.43

- a. Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

3.2 Test Mode

3.2.1 Antenna Port Conducted Measurement

Summary table of Test Cases				
Test Item	Modulation			
	802.11 b	802.11 g	802.11n HT20	802.11n HT40
Conducted Test Cases	Mode 1: CH01	Mode 4: CH01	Mode 7: CH01	Mode 10: CH03
	Mode 2: CH06	Mode 5: CH06	Mode 8: CH06	Mode 11: CH06
	Mode 3: CH011	Mode 6: CH011	Mode 9: CH011	Mode 12: CH09

3.2.2 Radiated Emission Test (Below 1GHz)

Radiated Test Cases	802.11 b
	Mode 1: CH01

Note : 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type. Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

2. Following channel(s) was (were) selected for the final test as listed above

3.2.3 Radiated Emission Test (Above 1GHz)

Test Item	Modulation			
	802.11 b	802.11 g	802.11n HT20	802.11n HT40
Radiated Test Cases	Mode 1: CH01	Mode 4: CH01	Mode 7: CH01	Mode 10: CH03
	Mode 2: CH06	Mode 5: CH06	Mode 8: CH06	Mode 11: CH06
	Mode 3: CH011	Mode 6: CH011	Mode 9: CH011	Mode 12: CH09

Note : 1. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z it was determined that Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

2. Following channel(s) was (were) selected for the final test as listed above

3. For frequency above 18GHz, the measured value is much lower than the limit, therefore, it is not reflected in the report.

3.2.4 Power Line Conducted Emission Test:

AC Conducted Emission	Mode 1 : 2.4G WLAN Link + HDMI + TF Card Upload + USB playing + Ping
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3.3 Support Equipment

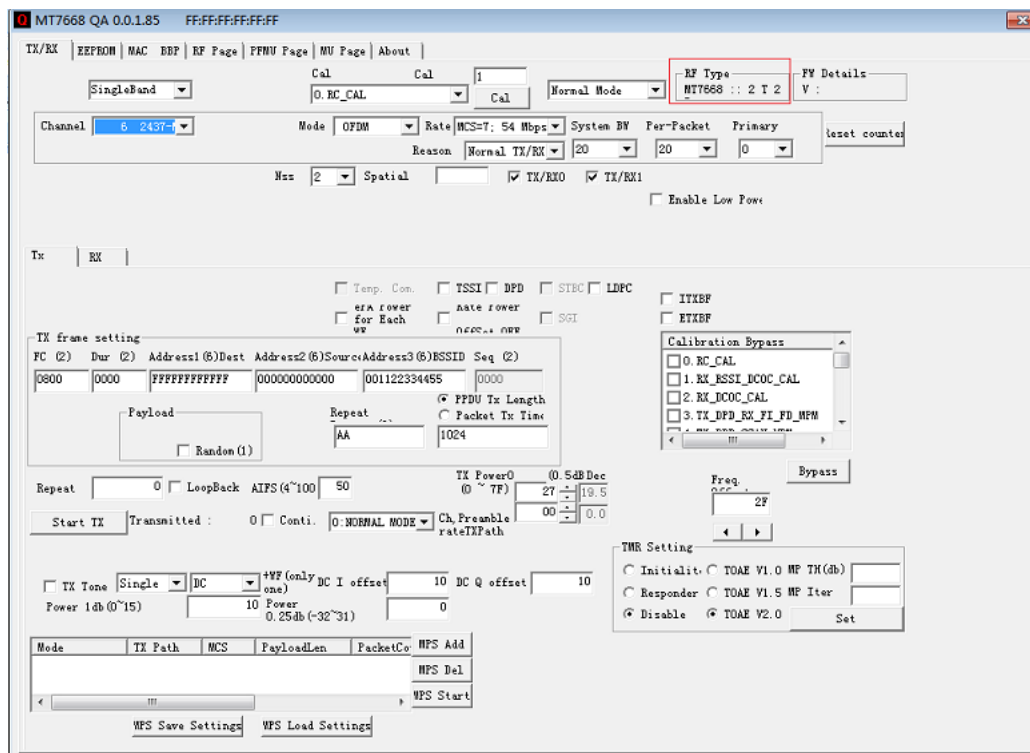
Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	Notebook	Lenovo	E470C	FCC DoC	N/A	shielded cable DC O/P 1.8 m unshielded AC I/P cable 1.2 m
3.	Flat Panel Monitor	Dell	P2317H	FCC DoC	N/A	Unshielded, 1.5 m

3.4 Test Setup

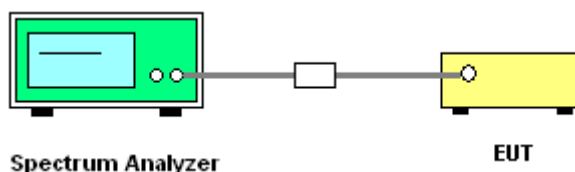
The EUT is continuously communicating to the WIFI tester during the tests.

EUT was set in the Hidden menu mode to enable WIFI communications.

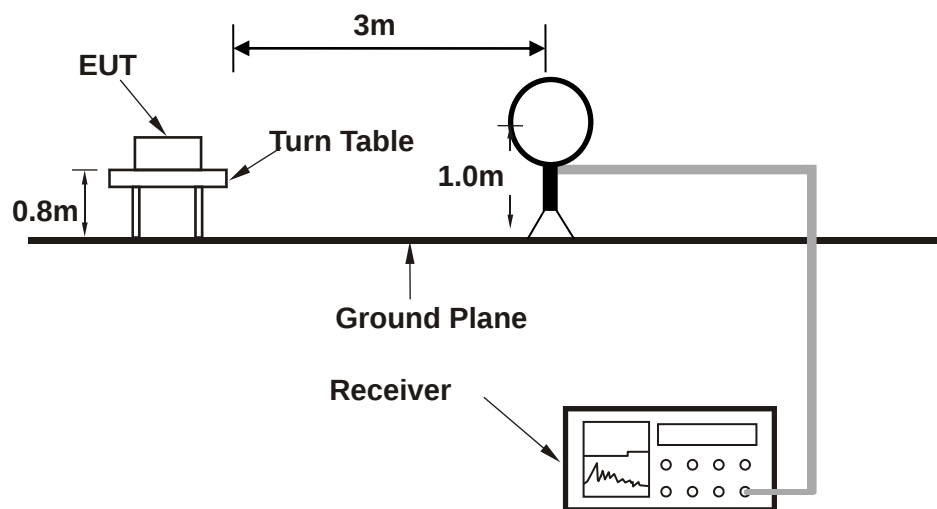
The following picture is a screenshot of the test software



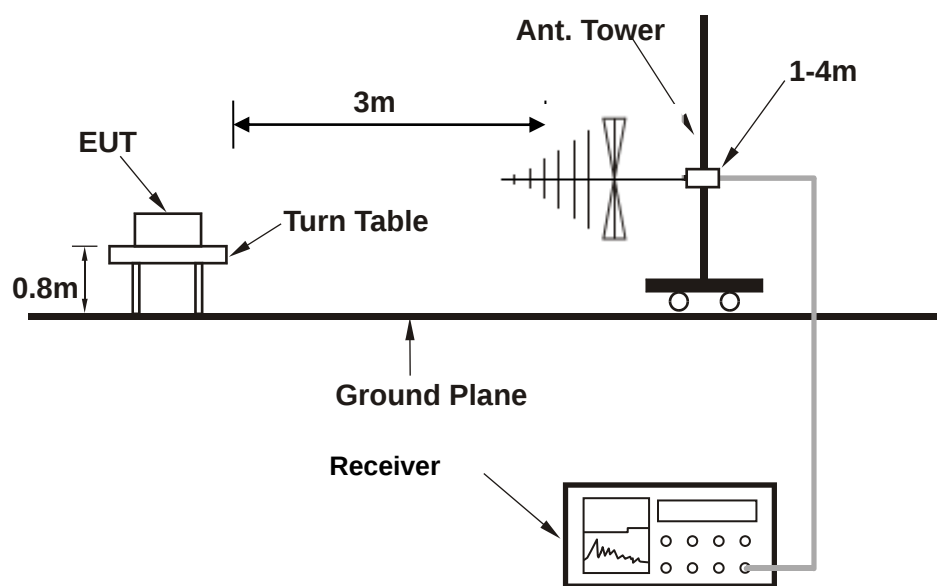
Setup diagram for Conducted Test



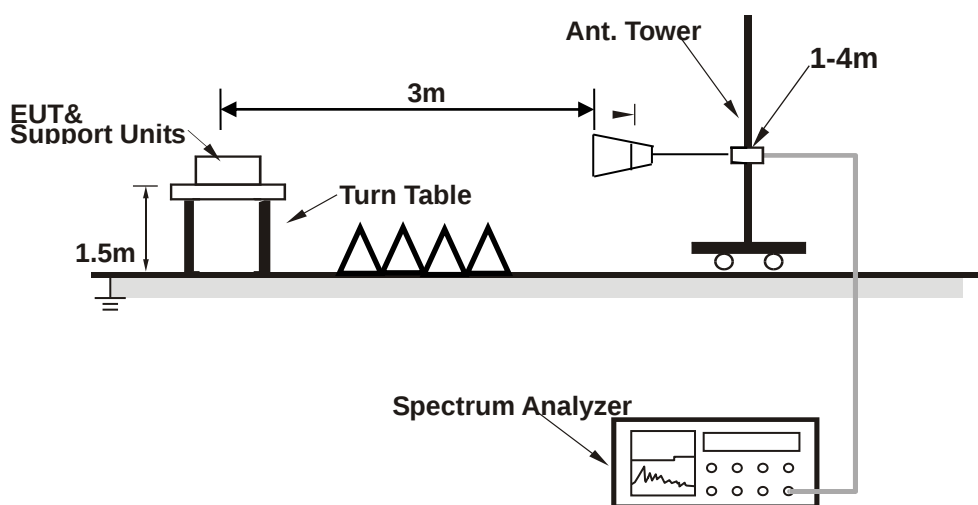
Setup diagram for Raidation(9KHz~30MHz) Test



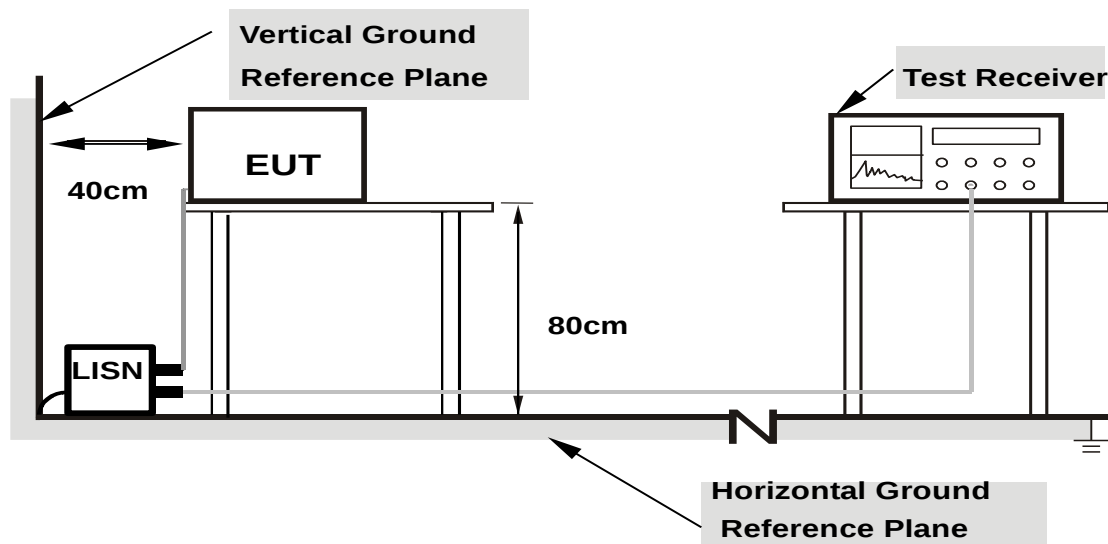
Setup diagram for Raidation(Below 1G) Test



Setup diagram for Raidation(Above1G) Test



Setup diagram for AC Conducted Emission Test



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 5 + 10 = 15 \text{ (dB)}\end{aligned}$$

For all radiated test items:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Over Limit (dB μ V/m) = Level(dB μ V/m) - Limit Level (dB μ V/m)

4 Test Result

4.1 DTS and Occupied Channel Bandwidth Measurement

4.1.1 Limit of 6dB Bandwidth

FCC §15.247 (a) (2)

IC RSS-247 5.2(a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

4.1.2 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v05r02.
2. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
3. Turn on the EUT and connect it to measurement instrument.
4. Set to the maximum power setting and enable Transmitting the EUT transmit continuously
5. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz.
Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) setting should be 1%-5% of OBW, please revise and set the Video bandwidth (VBW) $\geq 3 \times$ RBW.

4.1.3 Test Result of 6dB Bandwidth

Refer to Appendix A of this test report.

4.1.4 Test Result of 99% Bandwidth

Refer to Appendix B of this test report.

4.2 Maximum Conducted Output Power Measurement

4.2.1 Limit of Output Power

FCC §15.247 (b)(3)

IC RSS-247 A5.4(d)

For systems using digital modulation in the 2400-2483.5 MHz bands: 30dBm.

4.2.2 Test Procedures

7. The testing follows the Measurement Procedure of ANSI C63.10-2013 section 11.9.2.2.4 Measurement using a spectrum analyzer.
8. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
9. Turn on the EUT and connect it to spectrum analyzer.
10. Set to the maximum power setting and enable Transmitting the EUT transmit continuously
11. Measure the duty cycle, x , of the transmitter output signal as described in below:
 - a. Set the center frequency of the instrument to the center frequency of the transmission.
 - b. Set RBW to the largest available Transmitting value.
 - c. Set detector = peak
12. Set span to at least $1.5 \times \text{OBW}$. Set RBW=510KHz, VBW=2MHz, Number of points in sweep $\geq 2/3 \times \text{span}$, Sweep time = auto. Detector = RMS
13. Allow the sweep to "free run". Trace average 100 traces in RMS mode
14. Compute power by integrating the spectrum across the OBW of the signal using the instrument's Channel power measurement function with band limits set equal to the OBW band edges.
15. Add $10 \log (1/x)$, where x is the duty cycle.

4.2.3 Test Result of Peak Output Power

Refer to Appendix C of this test report.

4.2.4 Test Result of Duty Cycle

Refer to Appendix D of this test report.

4.3 Maximum Power Spectral Density Measurement

4.3.1 Limits of Power Spectral Density

FCC§15.247(e)

IC RSS-247 5.2(b)

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

4.3.2 Test Procedure

1. The testing follows Measurement Procedure 8.4 DTS maximum power spectral density level in the fundamental emission of ANSI C63.10-2013 section 11.9.2.2.4
2. Turn on the EUT and connect it to measurement instrument.
3. Measure the duty cycle, x , of the transmitter output signal as described in below:
 - a. Set the center frequency of the instrument to the center frequency of the transmission.
 - b. Set RBW to the largest available Transmitting value.
 - c. Set detector = peak
4. Set span to at least $1.5 \times \text{OBW}$. Set RBW= 30 KHz, VBW=100 KHz, Number of points in sweep $\geq 2/3 \times \text{span}$, Sweep time = auto.
5. Detector = power averaging (rms), Sweep time = auto couple, Trace mode = averaging (rms) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.
6. Add $10 \log(1/x)$, where x is the duty cycle.
7. Measure and record the results in the test report.
8. The Measured power density (dBm)/ 100kHz is a reference level and used as 30dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.
9. Add $10 \log(1/x)$, where x is the duty cycle. The duty cycle factor has been compensated to the 'offset' of the spectrum analyser.

4.3.3 Test Result of Power Spectral Density

Refer to Appendix E of this test report.

4.4 Band Edges and Spurious Emission Measurement

4.4.1 Limit of Conducted Band Edges and Spurious Emission

FCC §15.247 (d)

IC RSS-247 5.5

Maximum conducted (average) output power was used to determine compliance, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

4.4.2 Test Procedures

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument.
3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
4. Measure and record the results in the test report.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4.4.3 Test Result of Conducted Band Edges

Refer to Appendix F of this test report.

4.4.4 Test Result of Conducted Spurious Emission

Refer to Appendix G of this test report.

4.5 Radiated Band Edges and Spurious Emission Measurement

4.5.1 Limit of Radiated Band Edges and Spurious Emission

FCC §15.247 (d)

IC RSS-247 5.5

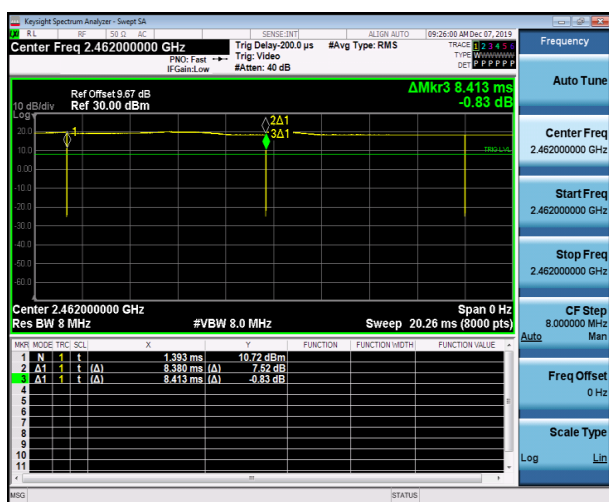
In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 30 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

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

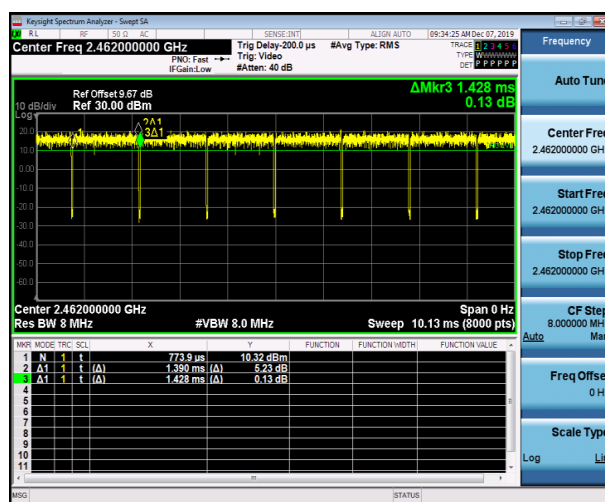
4.5.2 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The measurement distance is 3 meter.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$ GHz ; VBW RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement:
VBW = 10 Hz, when duty cycle is no less than 98 percent.
VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

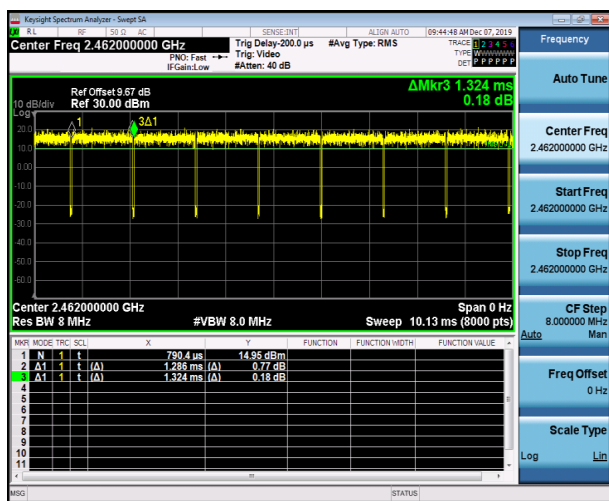
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	99.61	8.38	0.12	10Hz
802.11g	97.34	1.39	0.72	1kHz
802.11n HT20	97.13	1.29	0.78	1kHz
802.11n HT40	94.53	0.63	1.59	3kHz



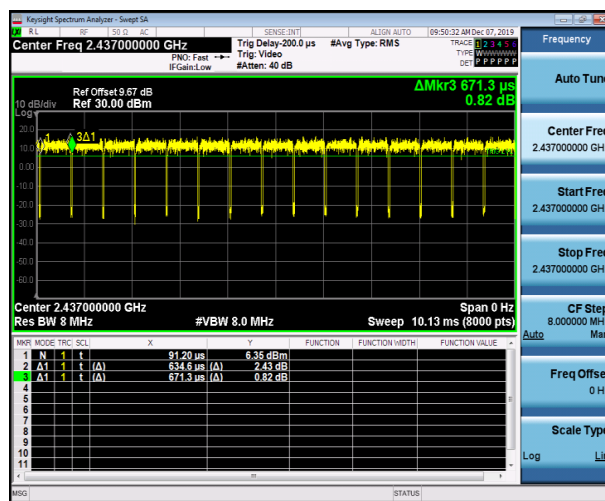
802.11b



802.11g



802.11n HT20



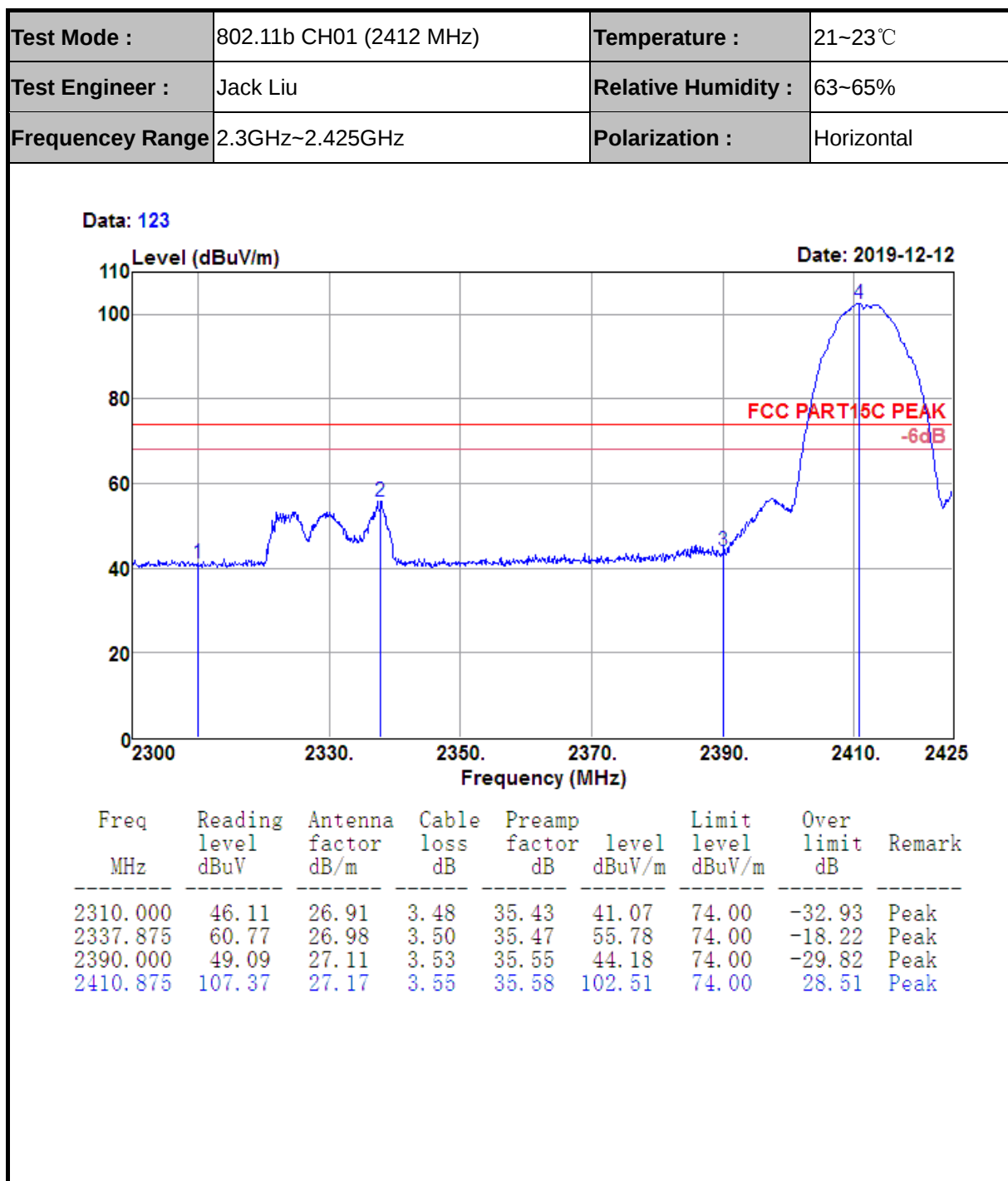
802.11n HT40

6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

4.5.3 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

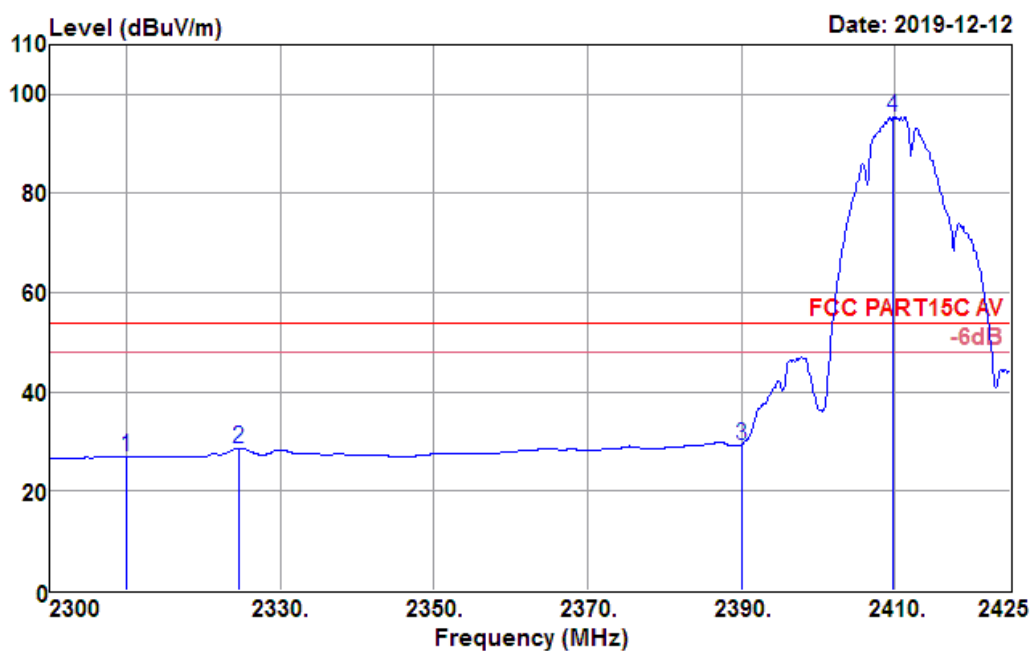
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

4.5.4 Test Result of Radiated Spurious at Band Edges



Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Horizontal

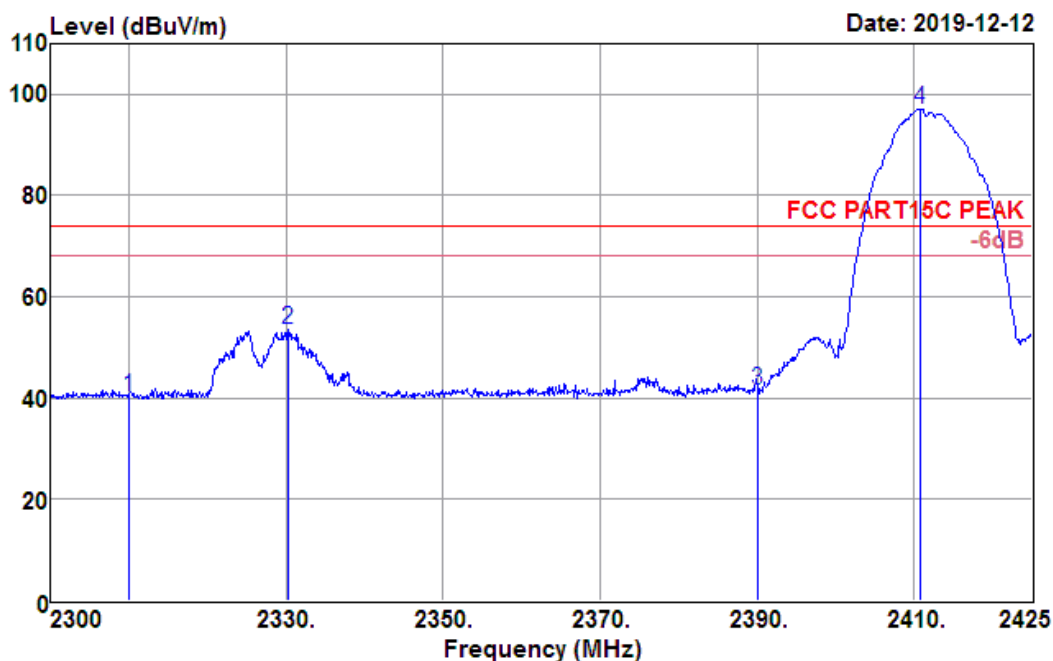
Data: 124



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.96	26.91	3.48	35.43	26.92	54.00	-27.08	Average
2324.625	33.66	26.94	3.49	35.45	28.64	54.00	-25.36	Average
2390.000	34.26	27.11	3.53	35.55	29.35	54.00	-24.65	Average
2409.750	100.31	27.17	3.55	35.57	95.46	54.00	41.46	Average

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Vertical

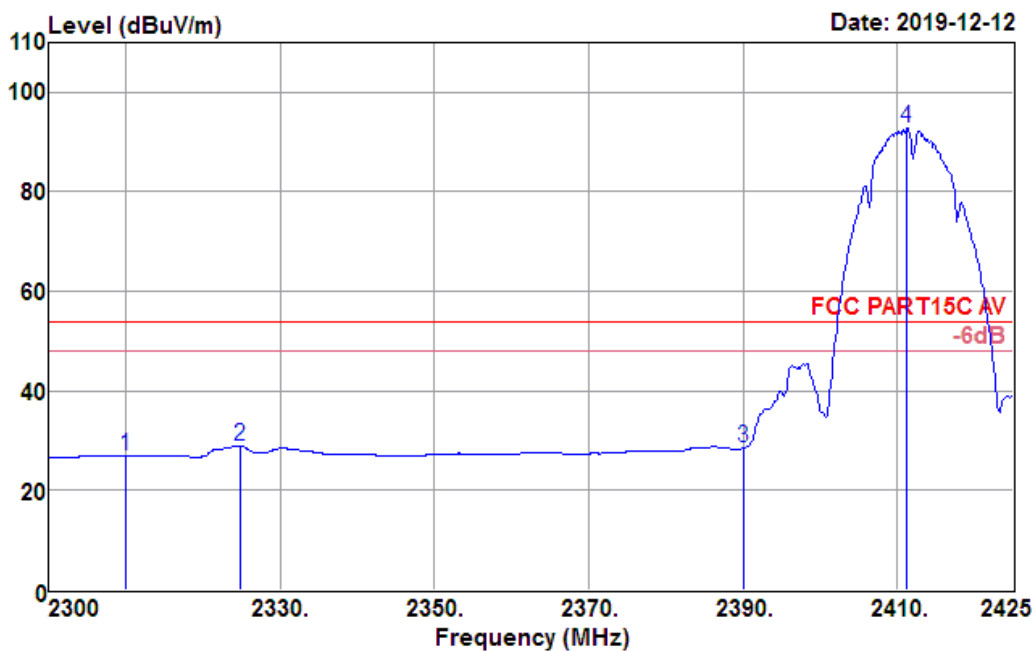
Data: 126



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	45.29	26.91	3.48	35.43	40.25	74.00	-33.75	Peak
2330.250	58.53	26.96	3.49	35.46	53.52	74.00	-20.48	Peak
2390.000	46.49	27.11	3.53	35.55	41.58	74.00	-32.42	Peak
2410.750	101.93	27.17	3.55	35.58	97.07	74.00	23.07	Peak

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Vertical

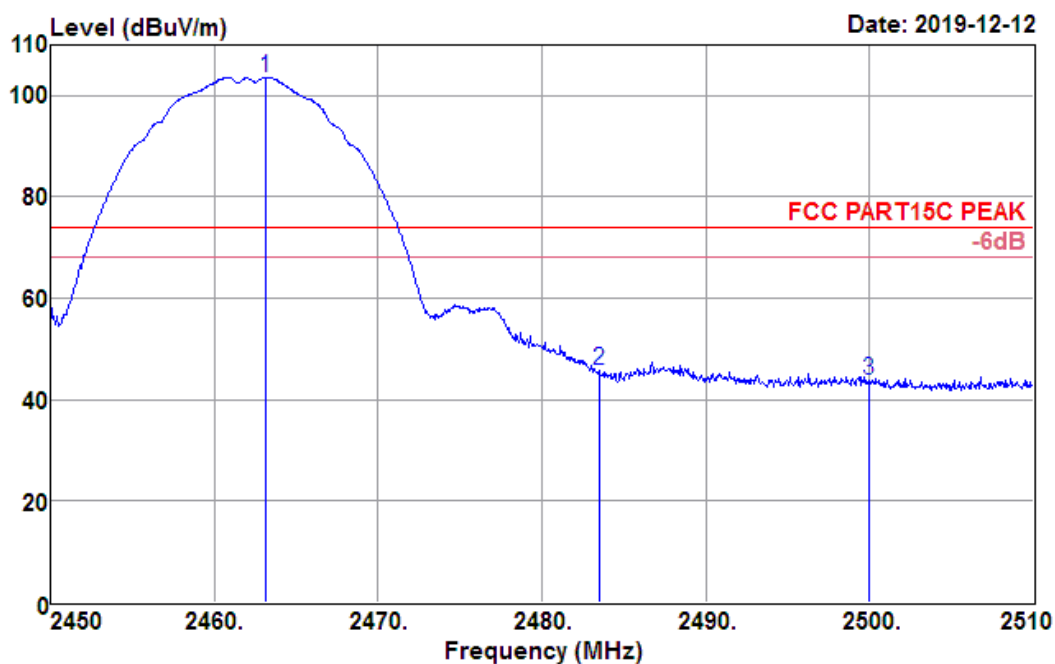
Data: 127



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.97	26.91	3.48	35.43	26.93	54.00	-27.07	Average
2324.875	34.03	26.94	3.49	35.45	29.01	54.00	-24.99	Average
2390.000	33.39	27.11	3.53	35.55	28.48	54.00	-25.52	Average
2411.250	97.71	27.17	3.55	35.58	92.85	54.00	38.85	Average

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Horizontal

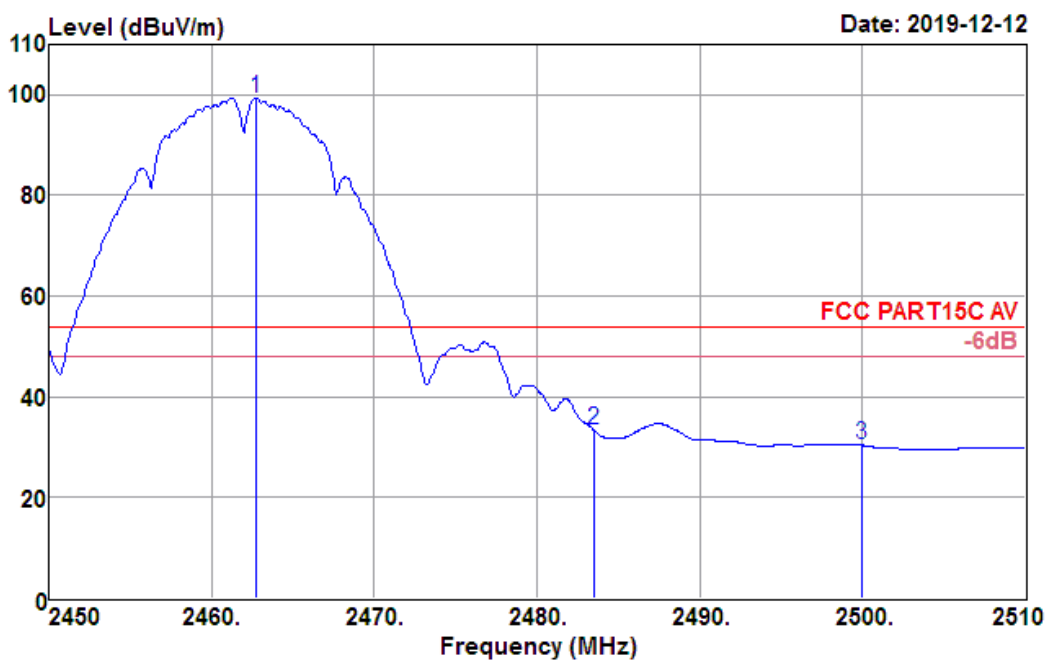
Data: 139



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2463.140	108.40	27.30	3.58	35.65	103.63	74.00	29.63	Peak
2483.500	50.42	27.36	3.59	35.68	45.69	74.00	-28.31	Peak
2500.000	48.50	27.40	3.60	35.70	43.80	74.00	-30.20	Peak

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Horizontal

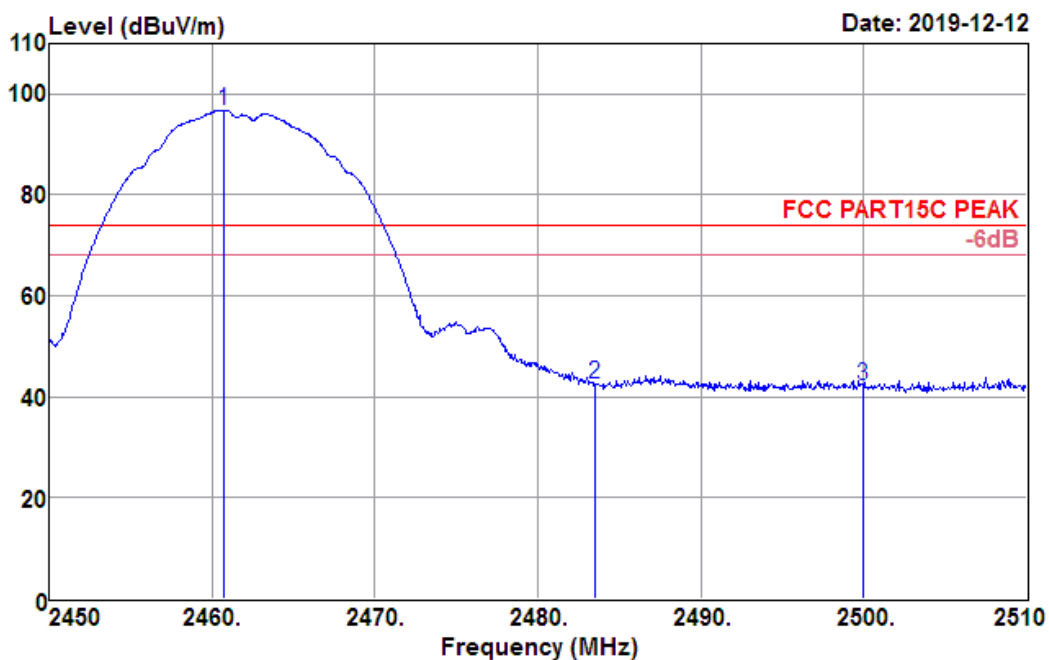
Data: 140



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.720	104.16	27.30	3.58	35.65	99.39	54.00	45.39	Average
2483.500	38.14	27.36	3.59	35.68	33.41	54.00	-20.59	Average
2500.000	35.11	27.40	3.60	35.70	30.41	54.00	-23.59	Average

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Vertical

Data: 142

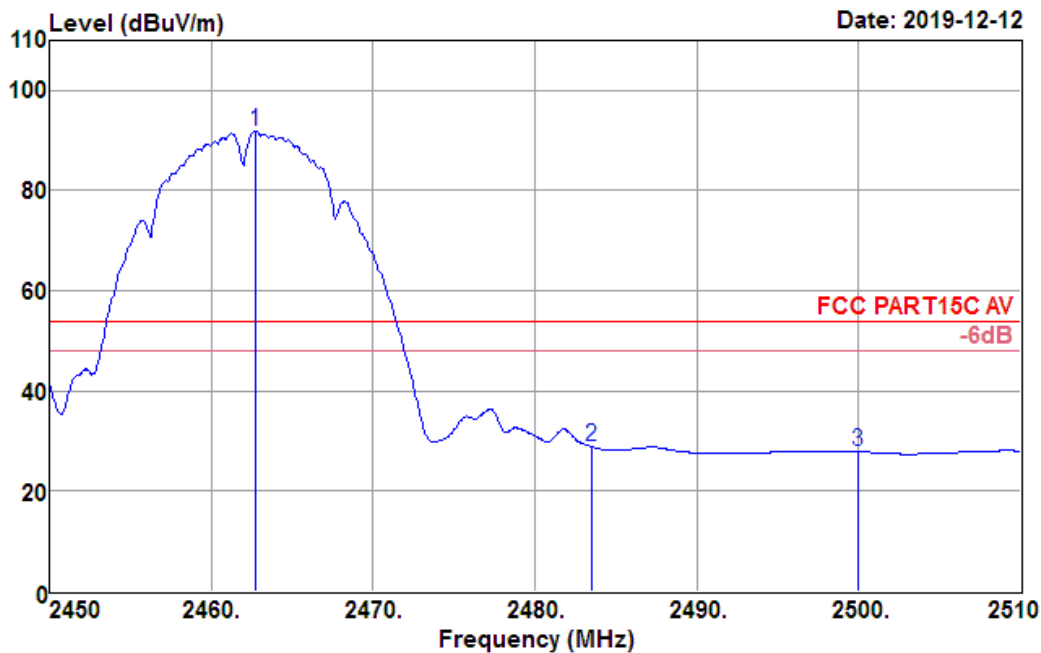


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2460.740	101.63	27.30	3.58	35.65	96.86	74.00	22.86	Peak
2483.500	47.31	27.36	3.59	35.68	42.58	74.00	-31.42	Peak
2500.000	46.88	27.40	3.60	35.70	42.18	74.00	-31.82	Peak

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Vertical

Data: 143

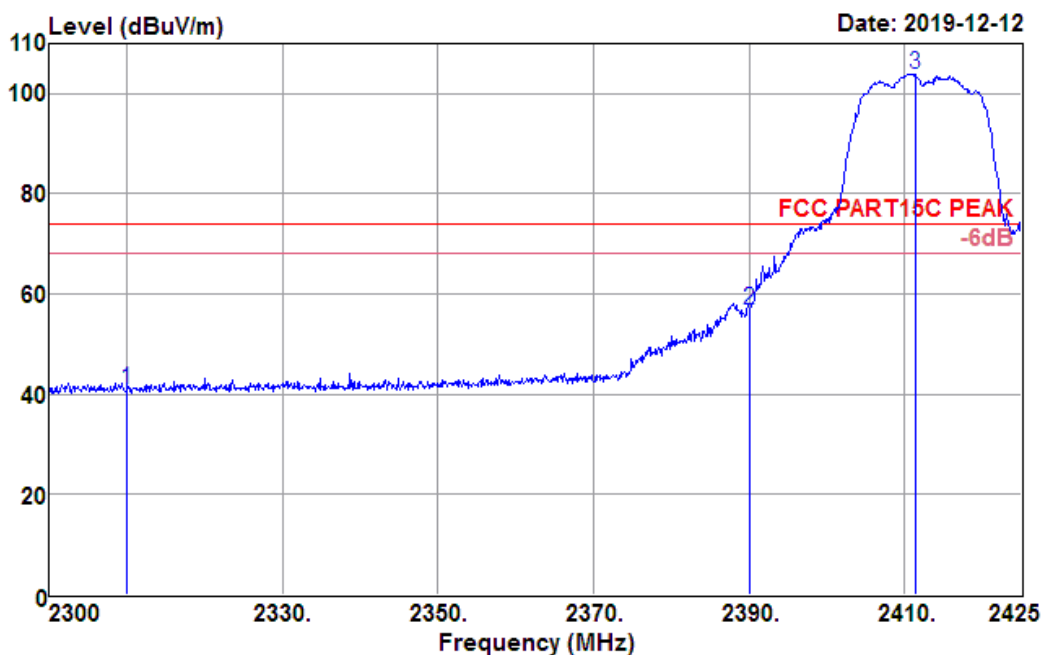
Date: 2019-12-12



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.720	96.69	27.30	3.58	35.65	91.92	54.00	37.92	Average
2483.500	33.63	27.36	3.59	35.68	28.90	54.00	-25.10	Average
2500.000	32.66	27.40	3.60	35.70	27.96	54.00	-26.04	Average

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Horizontal

Data: 149

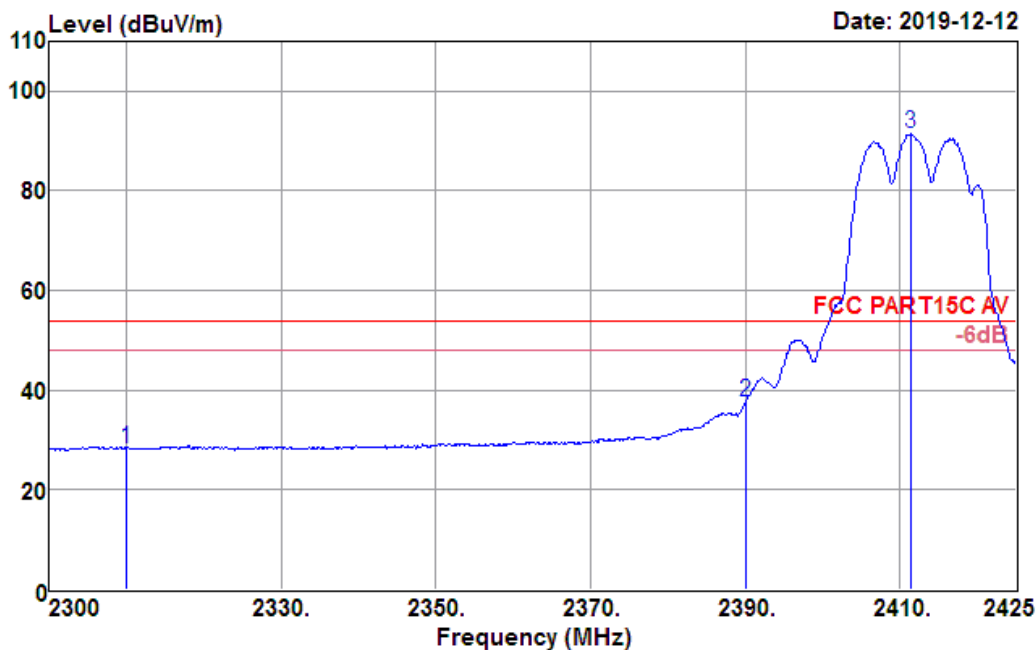


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	45.93	26.91	3.48	35.43	40.89	74.00	-33.11	Peak
2390.000	61.66	27.11	3.53	35.55	56.75	74.00	-17.25	Peak
2411.375	108.72	27.17	3.55	35.58	103.86	74.00	29.86	Peak

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Horizontal

Data: 150

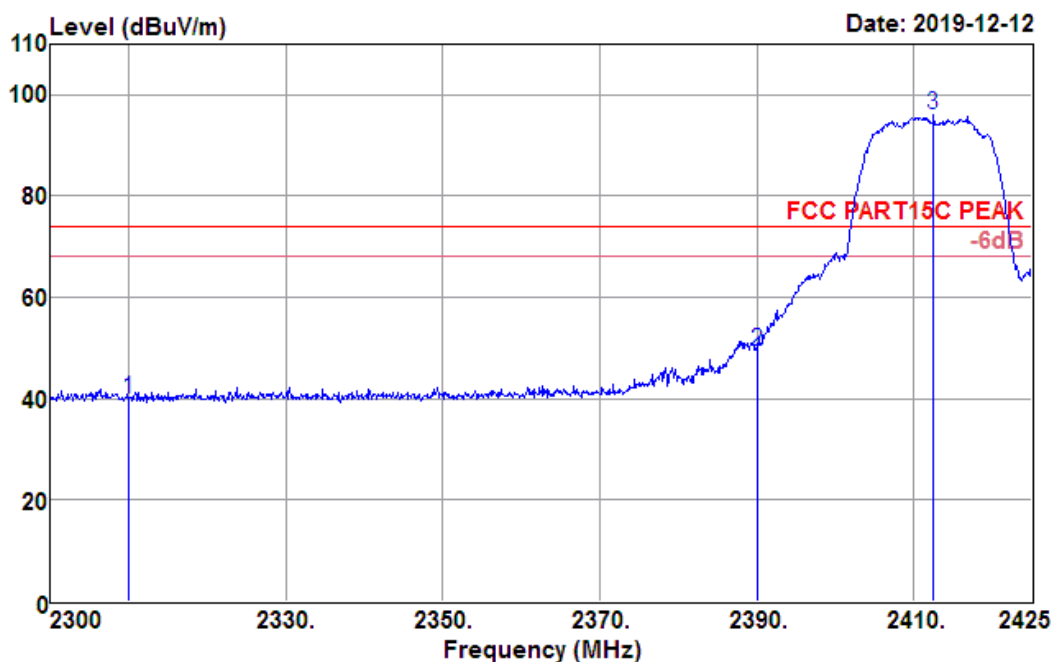
Date: 2019-12-12



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	33.18	26.91	3.48	35.43	28.14	54.00	-25.86	Average
2390.000	42.50	27.11	3.53	35.55	37.59	54.00	-16.41	Average
2411.375	96.22	27.17	3.55	35.58	91.36	54.00	37.36	Average

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Vertical

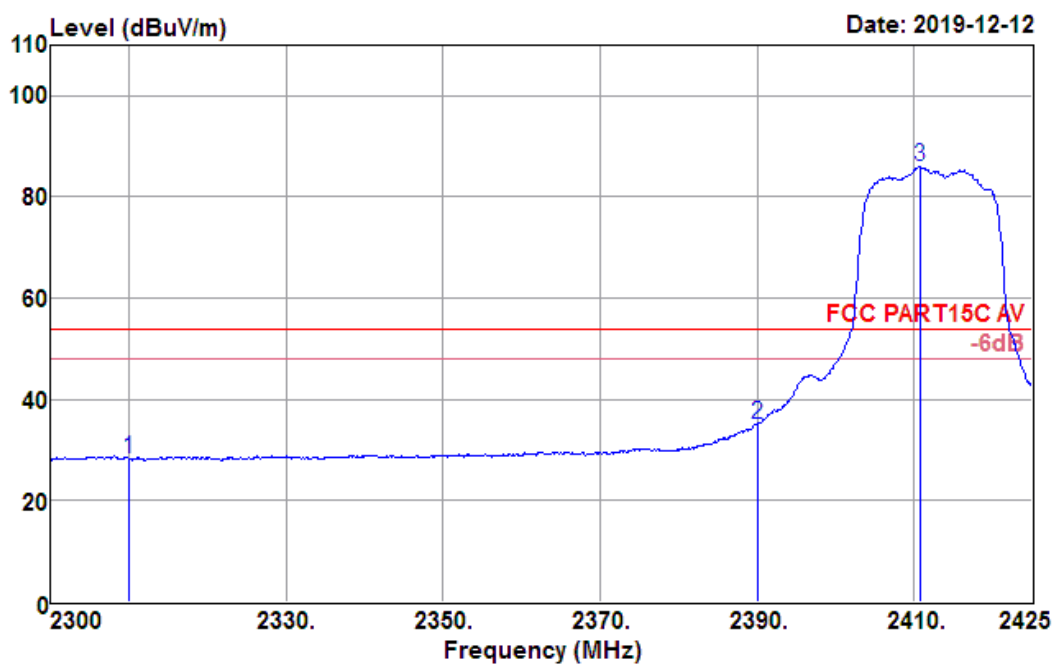
Data: 152



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	44.95	26.91	3.48	35.43	39.91	74.00	-34.09	Peak
2390.000	54.32	27.11	3.53	35.55	49.41	74.00	-24.59	Peak
2412.500	100.77	27.17	3.55	35.58	95.91	74.00	21.91	Peak

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Vertical

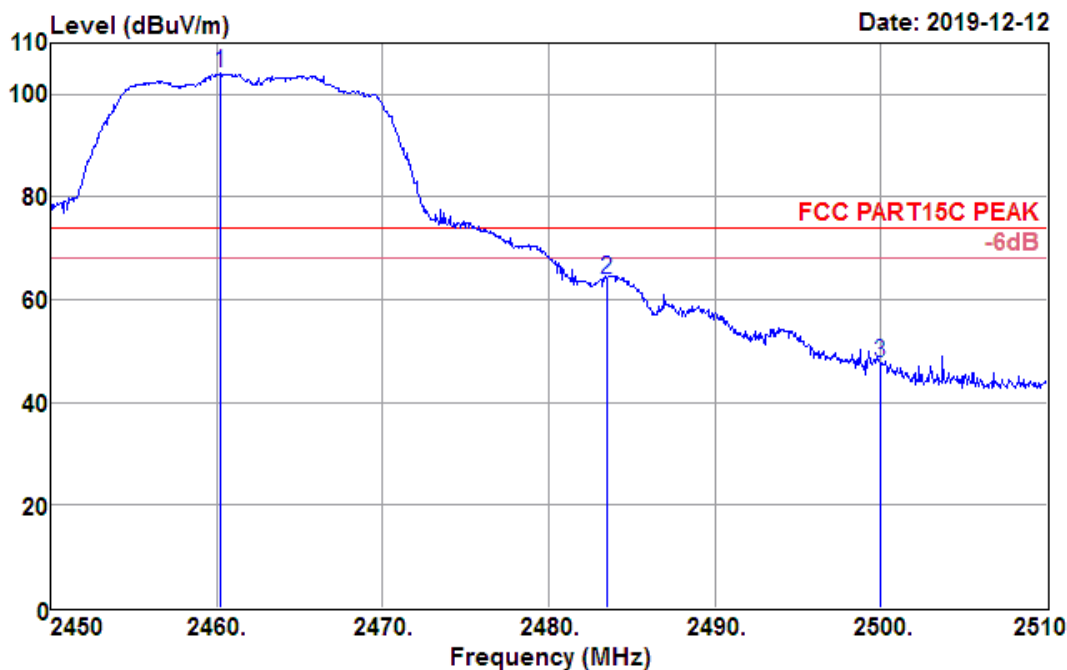
Data: 153



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	33.28	26.91	3.48	35.43	28.24	54.00	-25.76	Average
2390.000	40.13	27.11	3.53	35.55	35.22	54.00	-18.78	Average
2410.750	91.01	27.17	3.55	35.58	86.15	54.00	32.15	Average

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Horizontal

Data: 165

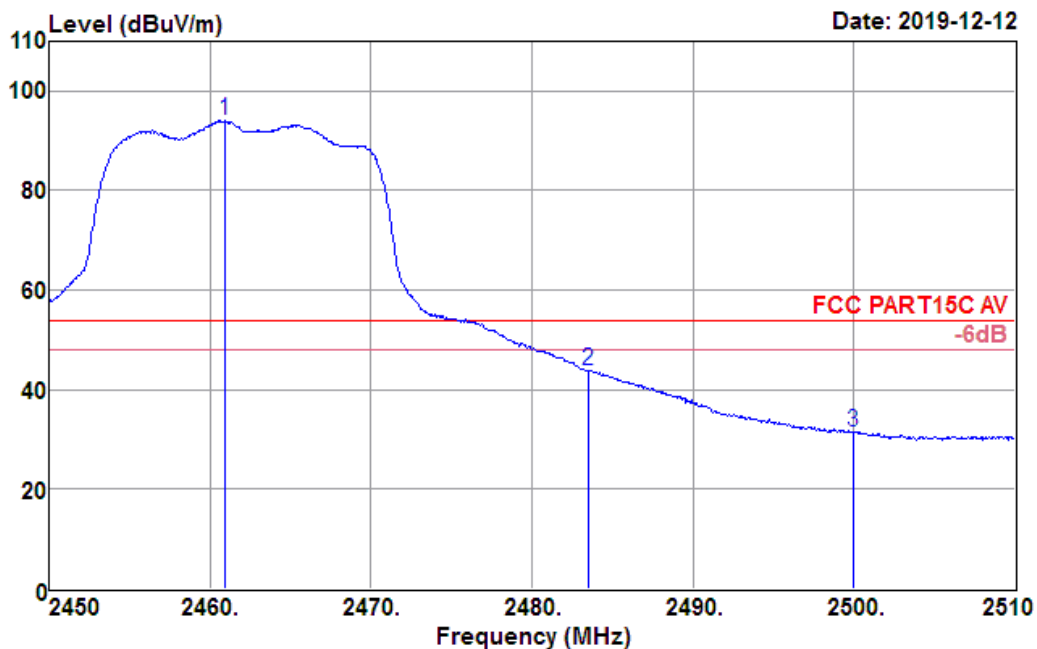


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2460.260	108.90	27.30	3.58	35.64	104.14	74.00	30.14	Peak
2483.500	68.79	27.36	3.59	35.68	64.06	74.00	-9.94	Peak
2500.000	52.40	27.40	3.60	35.70	47.70	74.00	-26.30	Peak

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Horizontal

Data: 166

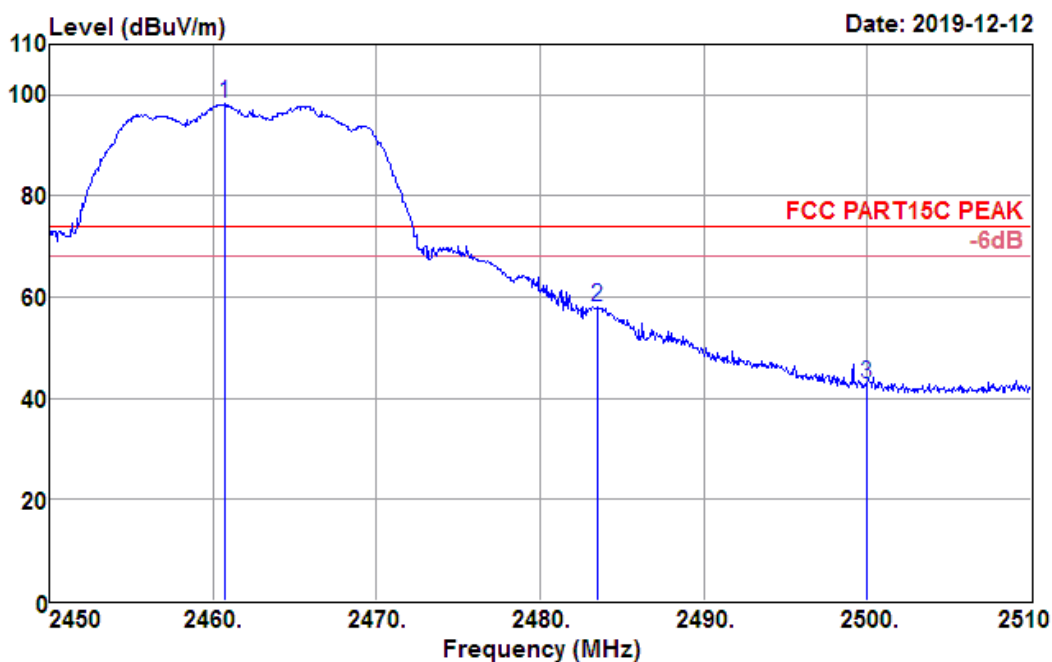
Date: 2019-12-12



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2460.980	98.81	27.30	3.58	35.65	94.04	54.00	40.04	Average
2483.500	48.66	27.36	3.59	35.68	43.93	54.00	-10.07	Average
2500.000	36.18	27.40	3.60	35.70	31.48	54.00	-22.52	Average

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Vertical

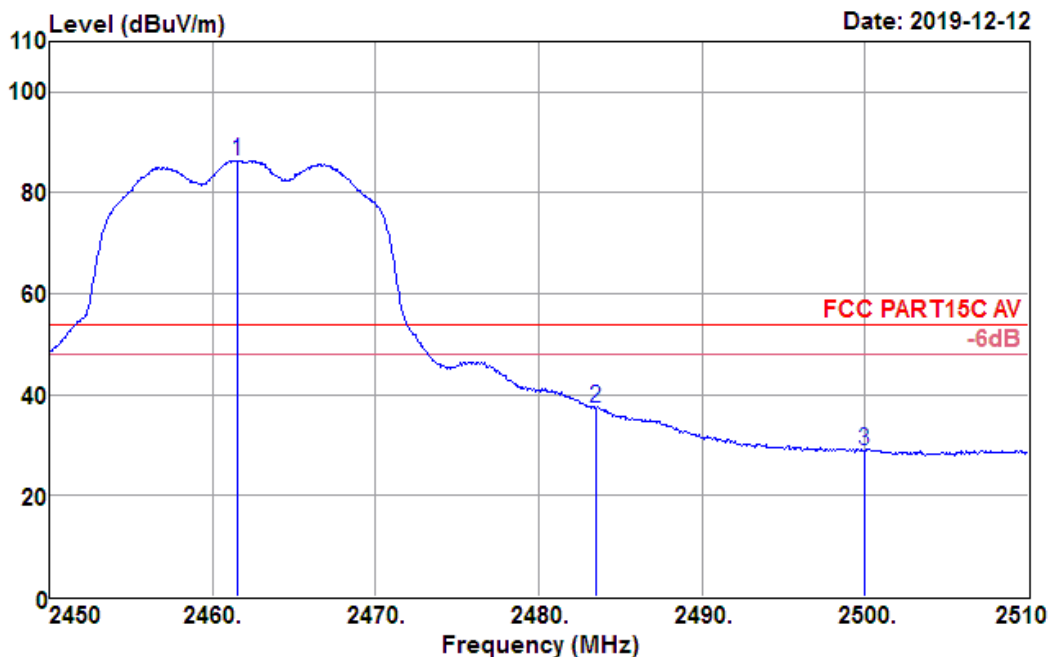
Data: 168



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2460.740	102.98	27.30	3.58	35.65	98.21	74.00	24.21	Peak
2483.500	62.82	27.36	3.59	35.68	58.09	74.00	-15.91	Peak
2500.000	47.54	27.40	3.60	35.70	42.84	74.00	-31.16	Peak

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Vertical

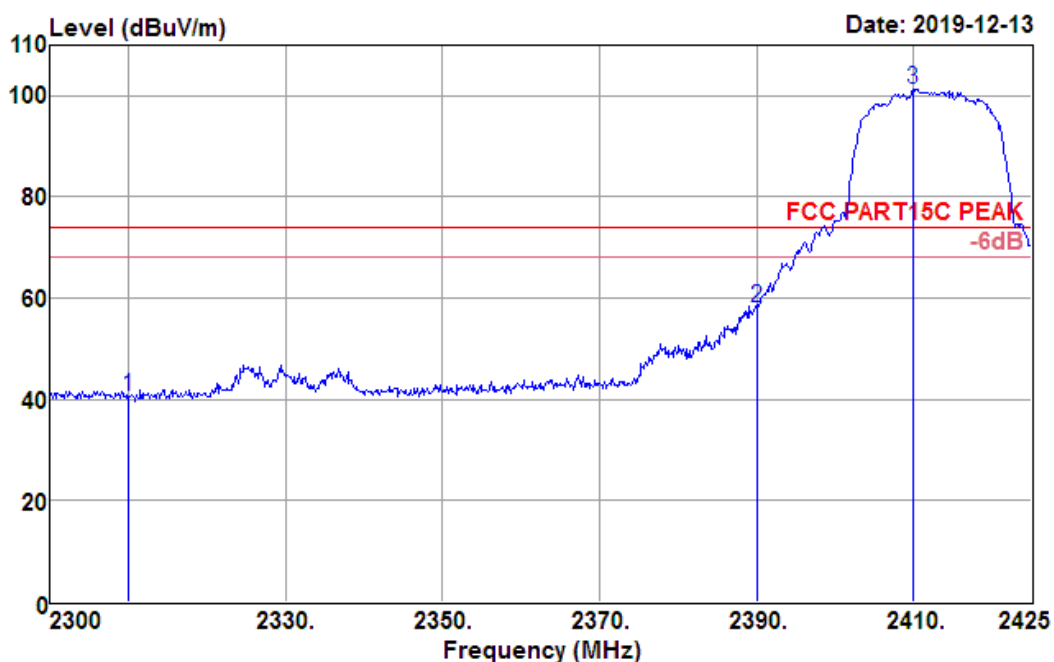
Data: 169



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2461.520	91.11	27.30	3.58	35.65	86.34	54.00	32.34	Average
2483.500	42.03	27.36	3.59	35.68	37.30	54.00	-16.70	Average
2500.000	33.74	27.40	3.60	35.70	29.04	54.00	-24.96	Average

Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Horizontal

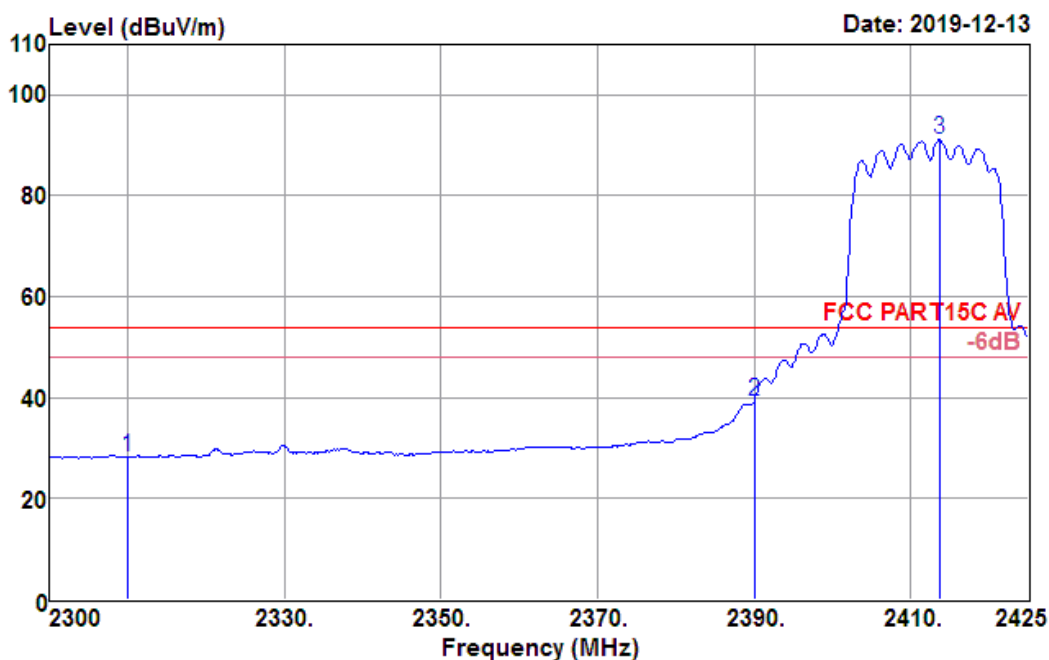
Data: 175



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	45.48	26.91	3.48	35.43	40.44	74.00	-33.56	Peak
2390.000	62.95	27.11	3.53	35.55	58.04	74.00	-15.96	Peak
2409.950	106.15	27.17	3.55	35.57	101.30	74.00	27.30	Peak

Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Horizontal

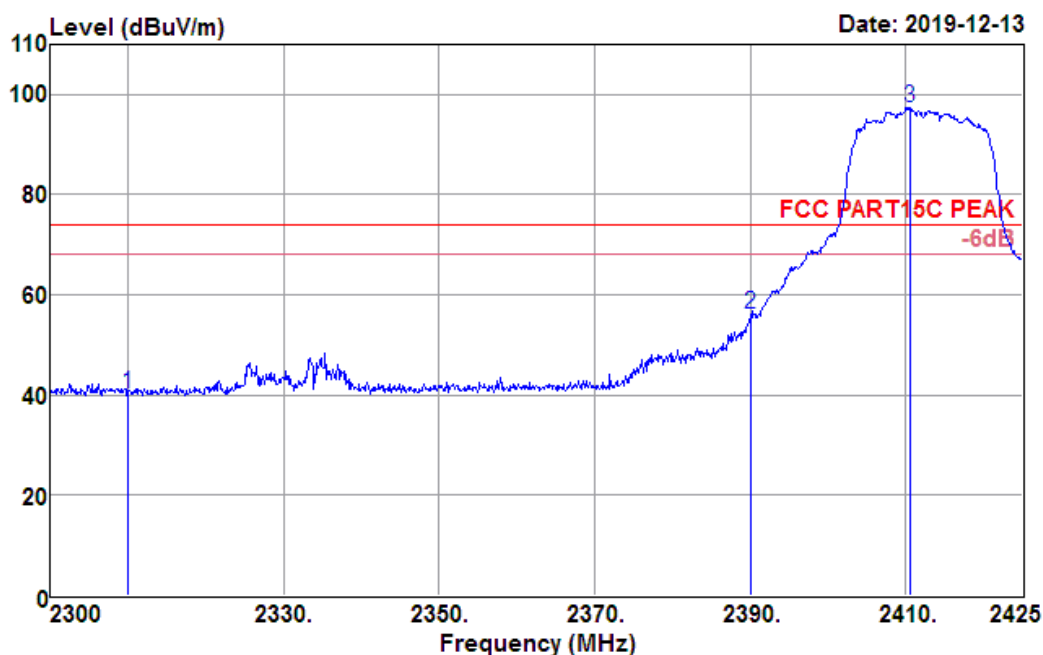
Data: 176



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	33.35	26.91	3.48	35.43	28.31	54.00	-25.69	Average
2390.000	44.17	27.11	3.53	35.55	39.26	54.00	-14.74	Average
2413.700	95.99	27.18	3.55	35.58	91.14	54.00	37.14	Average

Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Vertical

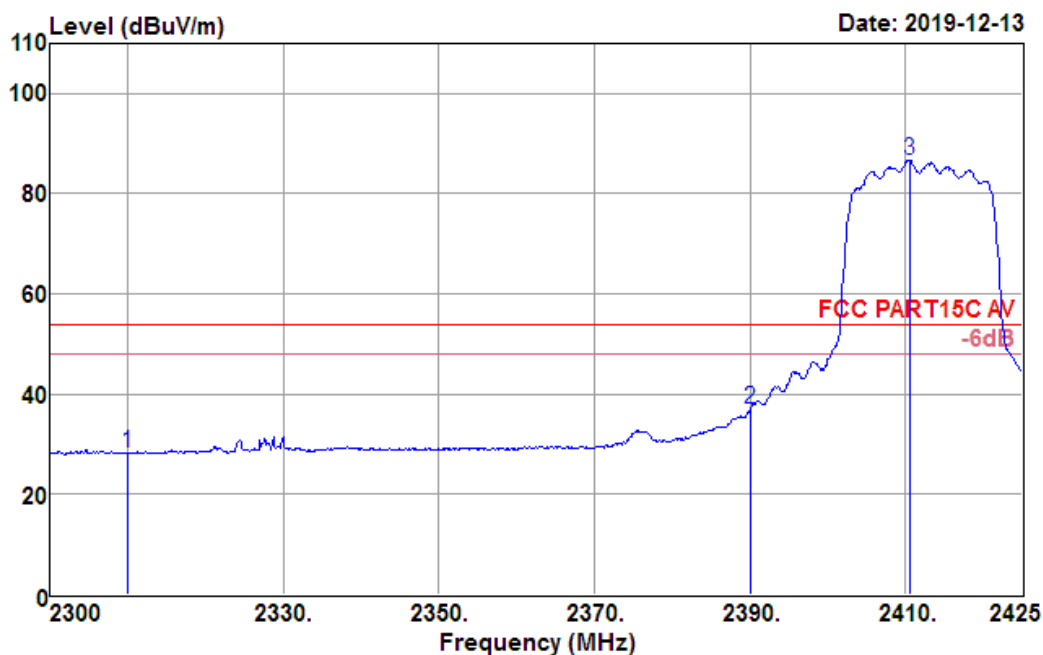
Data: 178



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	45.26	26.91	3.48	35.43	40.22	74.00	-33.78	Peak
2390.000	61.20	27.11	3.53	35.55	56.29	74.00	-17.71	Peak
2410.625	102.25	27.17	3.55	35.57	97.40	74.00	23.40	Peak

Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.425GHz	Polarization :	Vertical

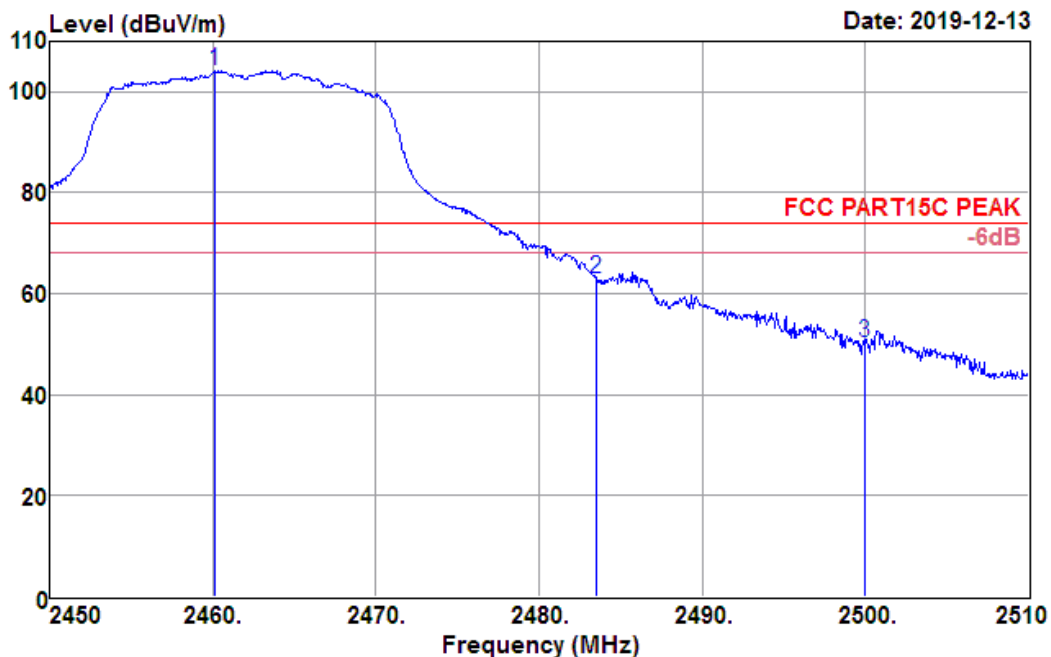
Data: 179



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	33.31	26.91	3.48	35.43	28.27	54.00	-25.73	Average
2390.000	41.96	27.11	3.53	35.55	37.05	54.00	-16.95	Average
2410.625	91.63	27.17	3.55	35.57	86.78	54.00	32.78	Average

Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Horizontal

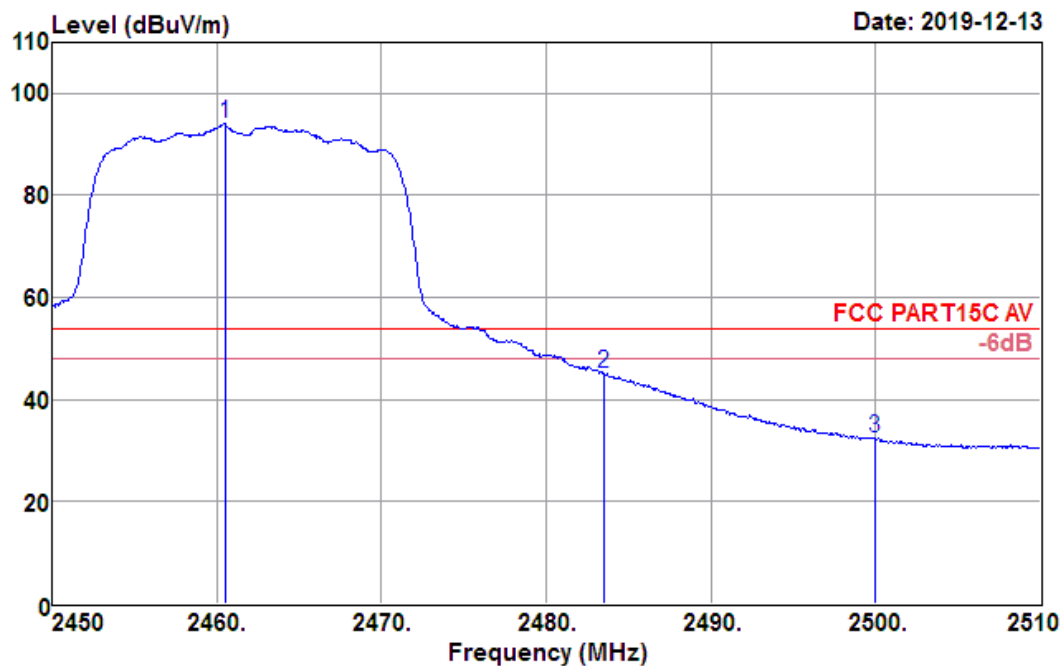
Data: 191



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2460.140	108.87	27.30	3.58	35.64	104.11	74.00	30.11	Peak
2483.500	67.66	27.36	3.59	35.68	62.93	74.00	-11.07	Peak
2500.000	55.05	27.40	3.60	35.70	50.35	74.00	-23.65	Peak

Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Horizontal

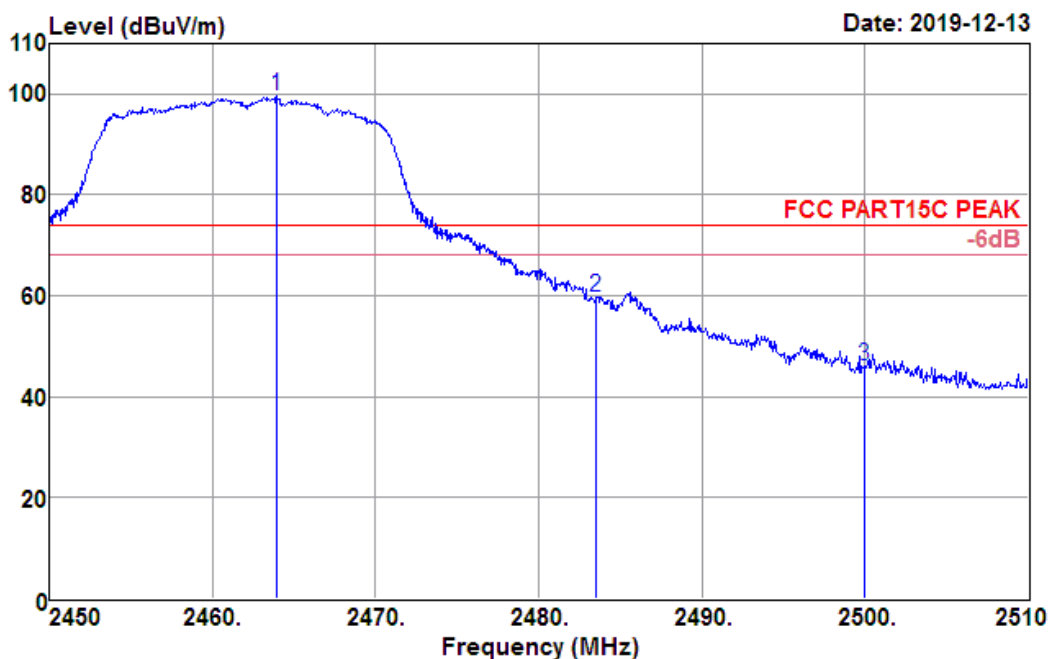
Data: 192



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2460.500	98.86	27.30	3.58	35.64	94.10	54.00	40.10	Average
2483.500	49.80	27.36	3.59	35.68	45.07	54.00	-8.93	Average
2500.000	37.20	27.40	3.60	35.70	32.50	54.00	-21.50	Average

Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Vertical

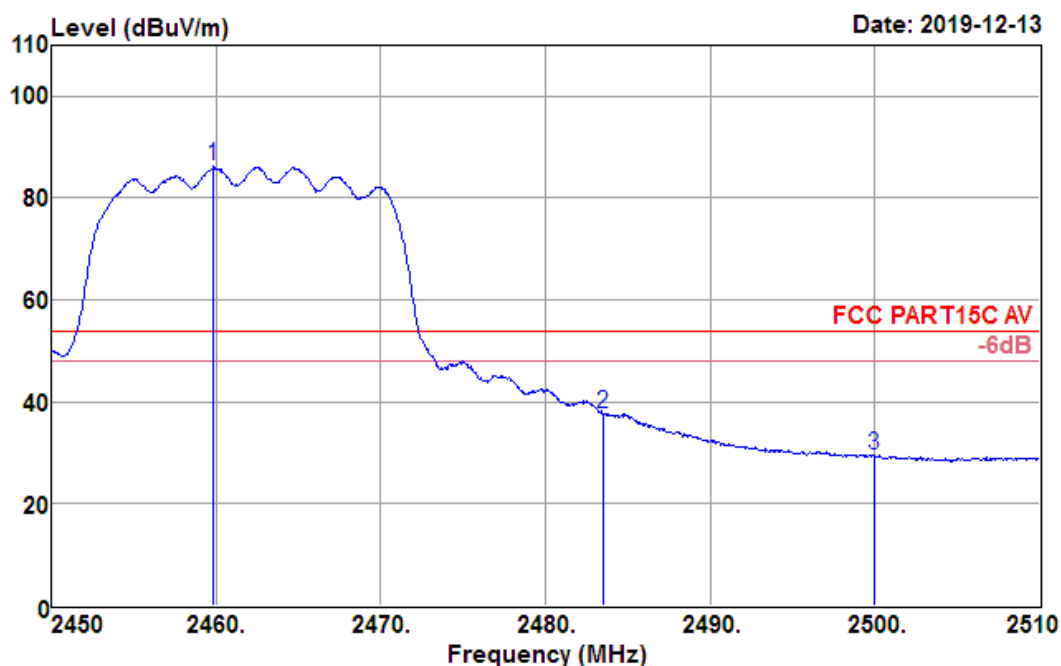
Data: 194



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2463.920	104.54	27.31	3.58	35.65	99.78	74.00	25.78	Peak
2483.500	64.51	27.36	3.59	35.68	59.78	74.00	-14.22	Peak
2500.000	50.88	27.40	3.60	35.70	46.18	74.00	-27.82	Peak

Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.45GHz~2.51GHz	Polarization :	Vertical

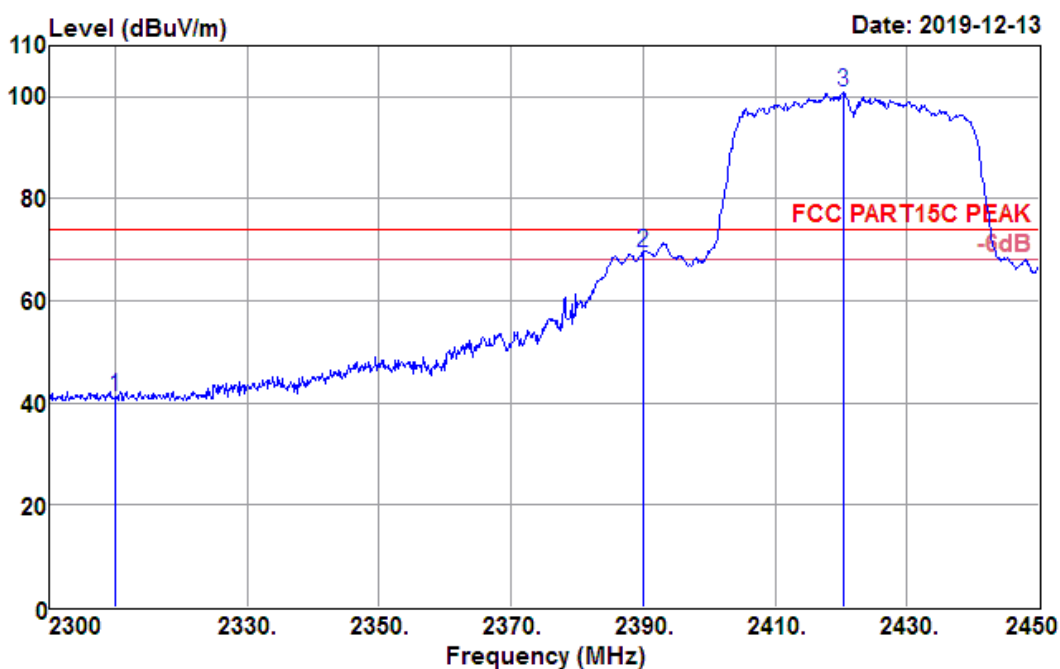
Data: 195



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2459.840	90.95	27.30	3.58	35.64	86.19	54.00	32.19	Average
2483.500	42.43	27.36	3.59	35.68	37.70	54.00	-16.30	Average
2500.000	34.22	27.40	3.60	35.70	29.52	54.00	-24.48	Average

Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.45GHz	Polarization :	Horizontal

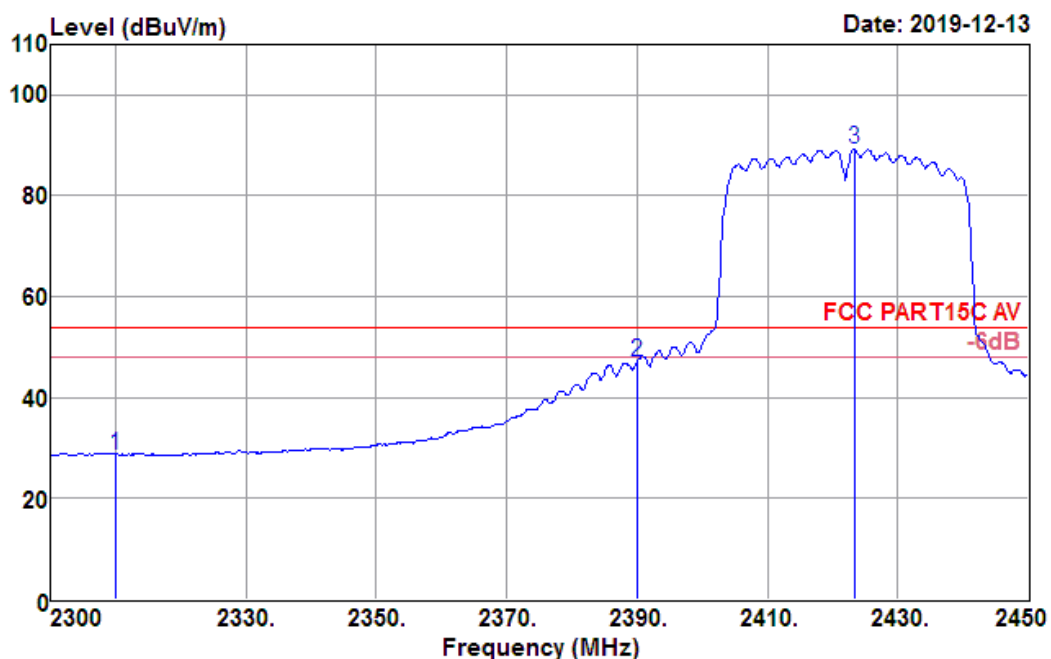
Data: 204



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	46.17	26.91	3.48	35.43	41.13	74.00	-32.87	Peak
2390.000	74.35	27.11	3.53	35.55	69.44	74.00	-4.56	Peak
2420.450	105.70	27.19	3.55	35.59	100.85	74.00	26.85	Peak

Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.45GHz	Polarization :	Horizontal

Data: 205

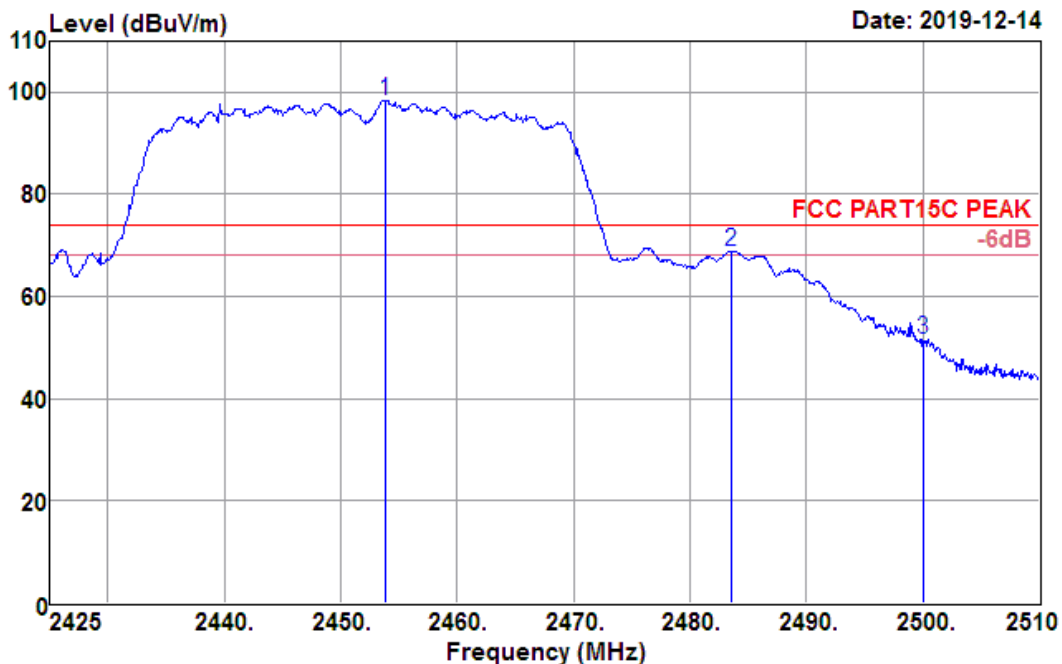


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	33.76	26.91	3.48	35.43	28.72	54.00	-25.28	Average
2390.000	52.08	27.11	3.53	35.55	47.17	54.00	-6.83	Average
2423.300	94.07	27.20	3.55	35.59	89.23	54.00	35.23	Average

Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.45GHz	Polarization :	Vertical

Data: 216

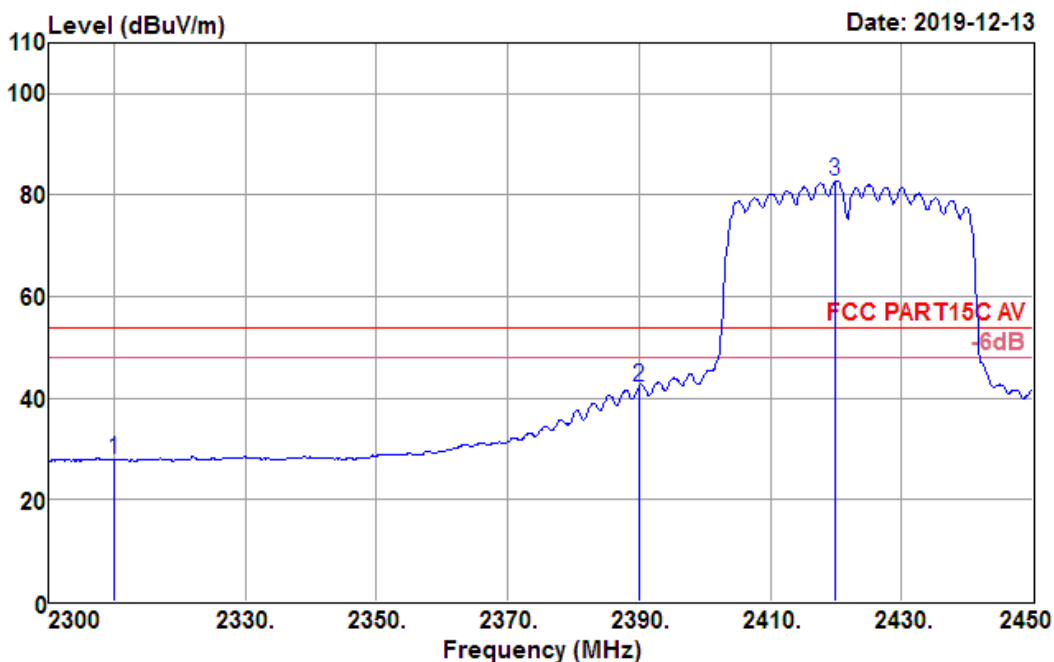
Date: 2019-12-14



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2453.900	103.06	27.28	3.57	35.64	98.27	74.00	24.27	Peak
2483.500	73.57	27.36	3.59	35.68	68.84	74.00	-5.16	Peak
2500.000	56.16	27.40	3.60	35.70	51.46	74.00	-22.54	Peak

Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.3GHz~2.45GHz	Polarization :	Vertical

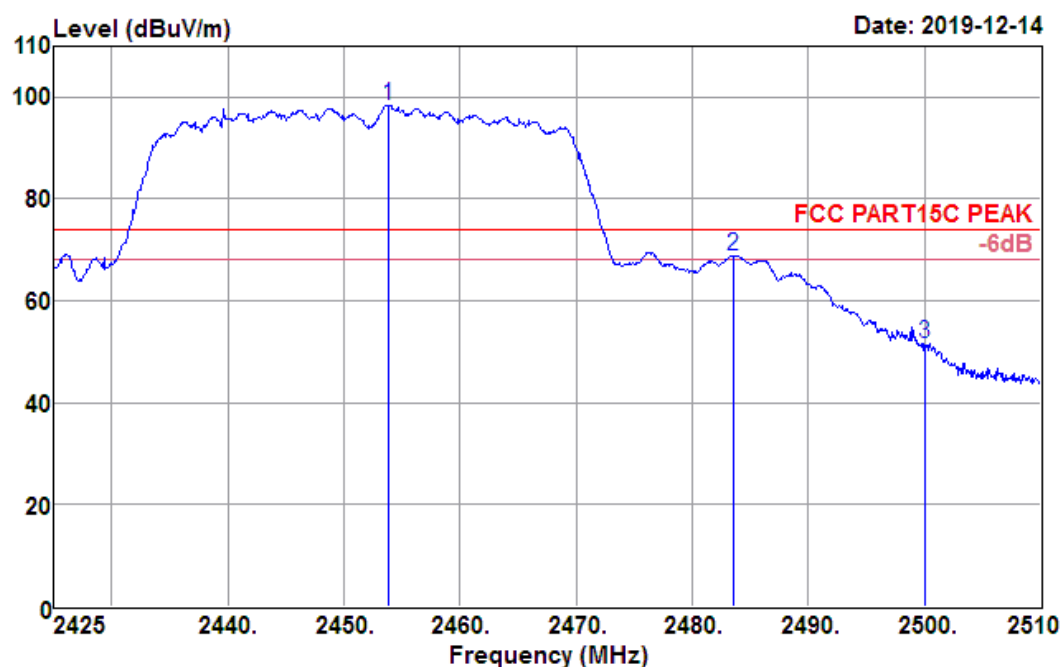
Data: 202



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	32.92	26.91	3.48	35.43	27.88	54.00	-26.12	Average
2390.000	47.18	27.11	3.53	35.55	42.27	54.00	-11.73	Average
2420.000	87.72	27.19	3.55	35.59	82.87	54.00	28.87	Average

Test Mode :	802.11n HT40 CH09 (2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.425GHz~2.51GHz	Polarization :	Horizontal

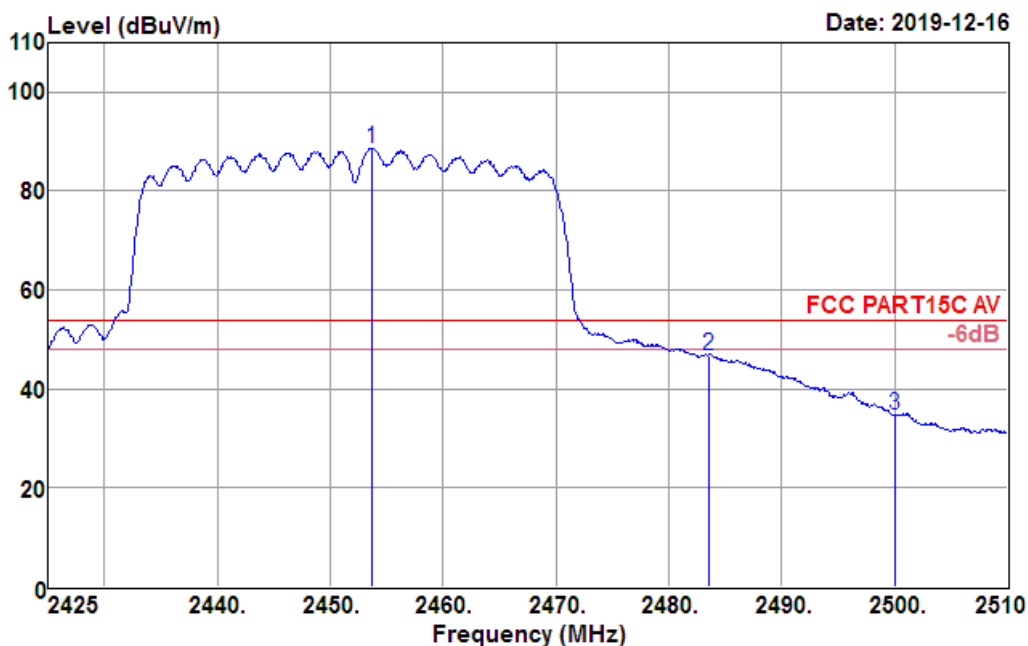
Data: 216



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2453.900	103.06	27.28	3.57	35.64	98.27	74.00	24.27	Peak
2483.500	73.57	27.36	3.59	35.68	68.84	74.00	-5.16	Peak
2500.000	56.16	27.40	3.60	35.70	51.46	74.00	-22.54	Peak

Test Mode :	802.11n HT40 CH09 (2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.425GHz~2.51GHz	Polarization :	Horizontal

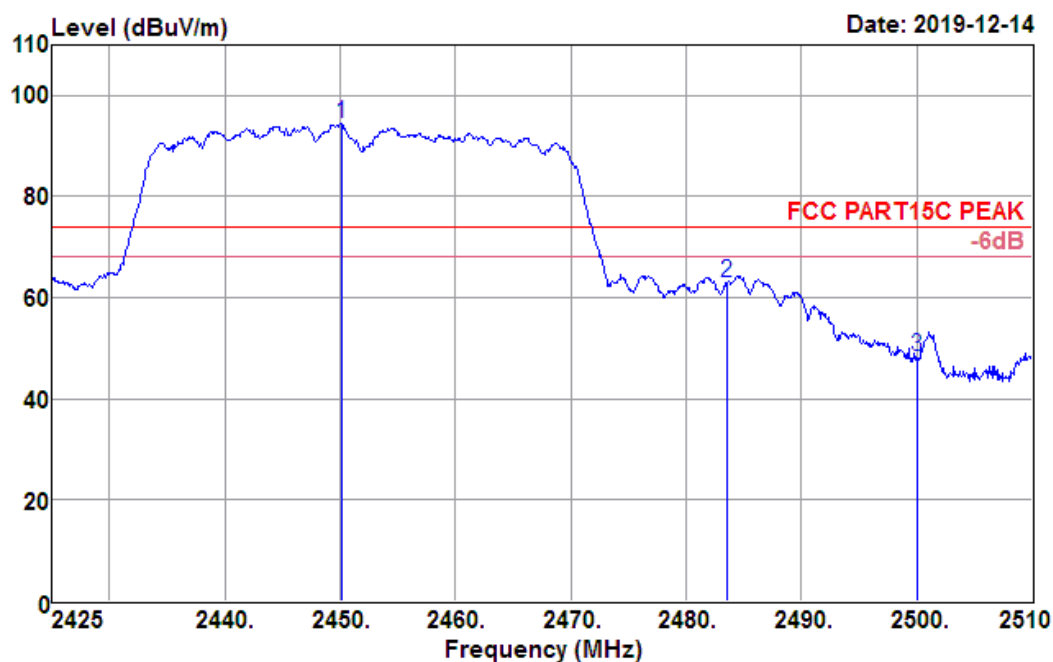
Data: 217



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2453.730	93.39	27.28	3.57	35.64	88.60	54.00	34.60	Average
2483.500	51.51	27.36	3.59	35.68	46.78	54.00	-7.22	Average
2500.000	39.42	27.40	3.60	35.70	34.72	54.00	-19.28	Average

Test Mode :	802.11n HT40 CH09 (2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.425GHz~2.51GHz	Polarization :	Vertical

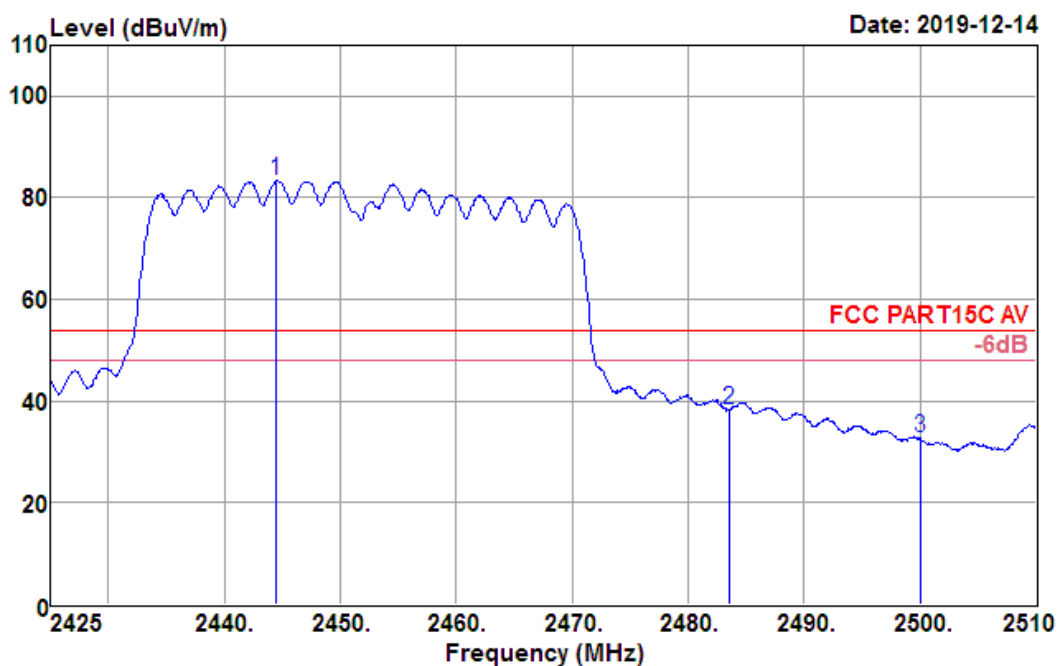
Data: 213



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2450.160	99.26	27.27	3.57	35.63	94.47	74.00	20.47	Peak
2483.500	67.62	27.36	3.59	35.68	62.89	74.00	-11.11	Peak
2500.000	53.16	27.40	3.60	35.70	48.46	74.00	-25.54	Peak

Test Mode :	802.11n HT40 CH09 (2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	2.425GHz~2.51GHz	Polarization :	Vertical

Data: 214

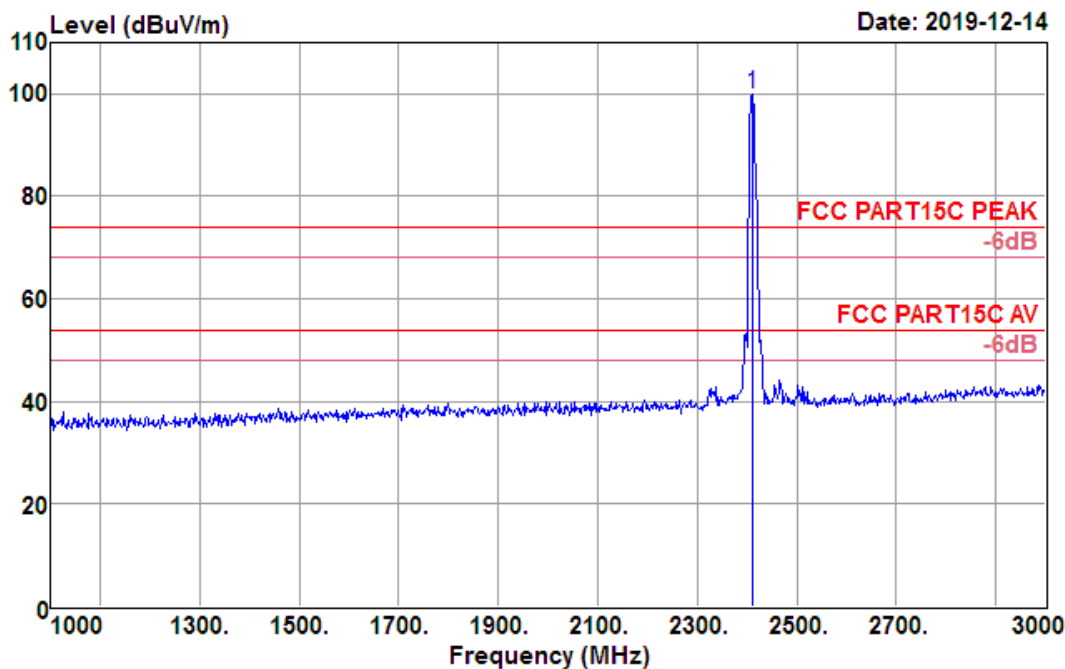


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2444.465	88.25	27.26	3.57	35.62	83.46	54.00	29.46	Average
2483.500	42.88	27.36	3.59	35.68	38.15	54.00	-15.85	Average
2500.000	37.35	27.40	3.60	35.70	32.65	54.00	-21.35	Average

4.5.5 Test Result of Radiated Spurious Emission (1GHz ~ 10th Harmonic)

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

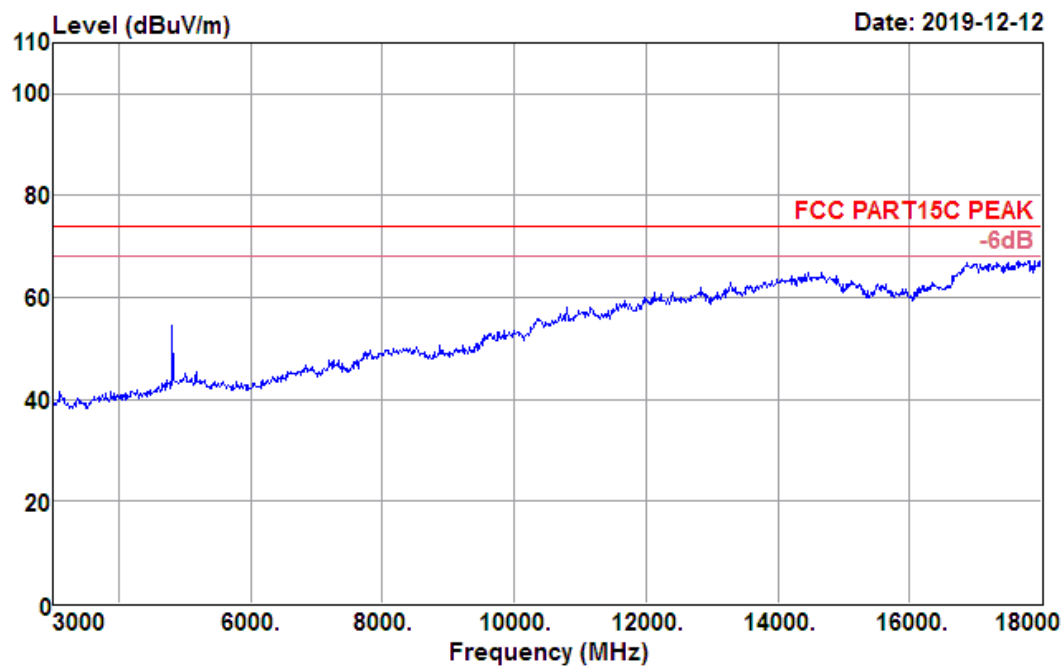
Data: 125



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	104.88	27.17	3.55	35.58	100.02	74.00	26.02	Peak

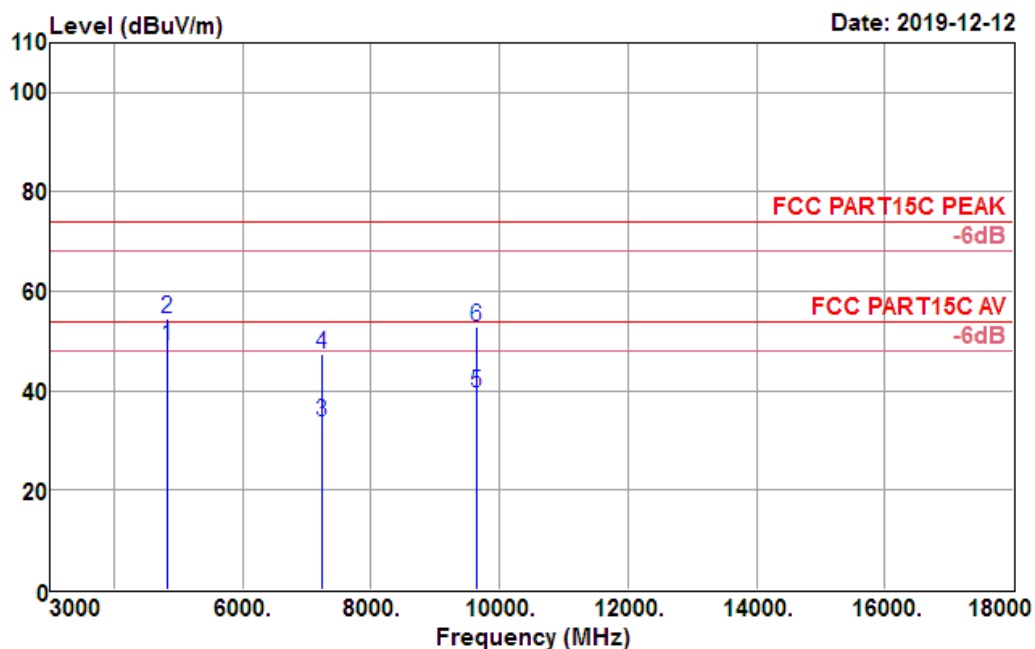
Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 121



Data: 122

Date: 2019-12-12

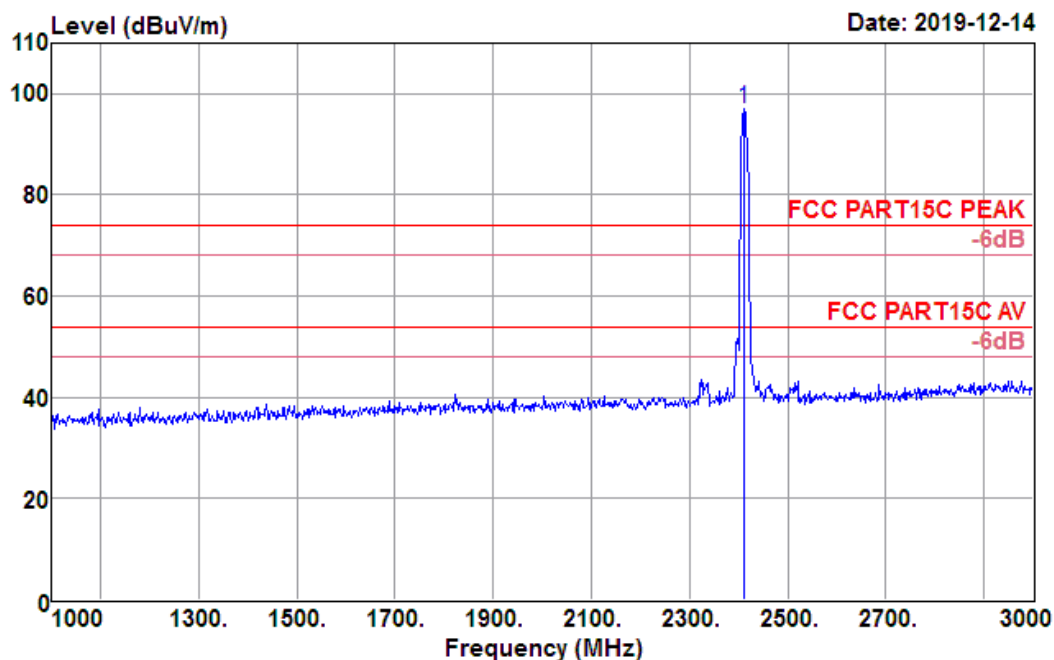


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	47.14	31.28	5.56	34.84	49.14	54.00	-4.86	Average
4824.000	52.37	31.28	5.56	34.84	54.37	74.00	-19.63	Peak
7236.000	26.65	35.94	7.61	36.40	33.80	54.00	-20.20	Average
7236.000	40.27	35.94	7.61	36.40	47.42	74.00	-26.58	Peak
9648.000	27.64	37.87	10.41	36.40	39.52	54.00	-14.48	Average
9648.000	41.04	37.87	10.41	36.40	52.92	74.00	-21.08	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

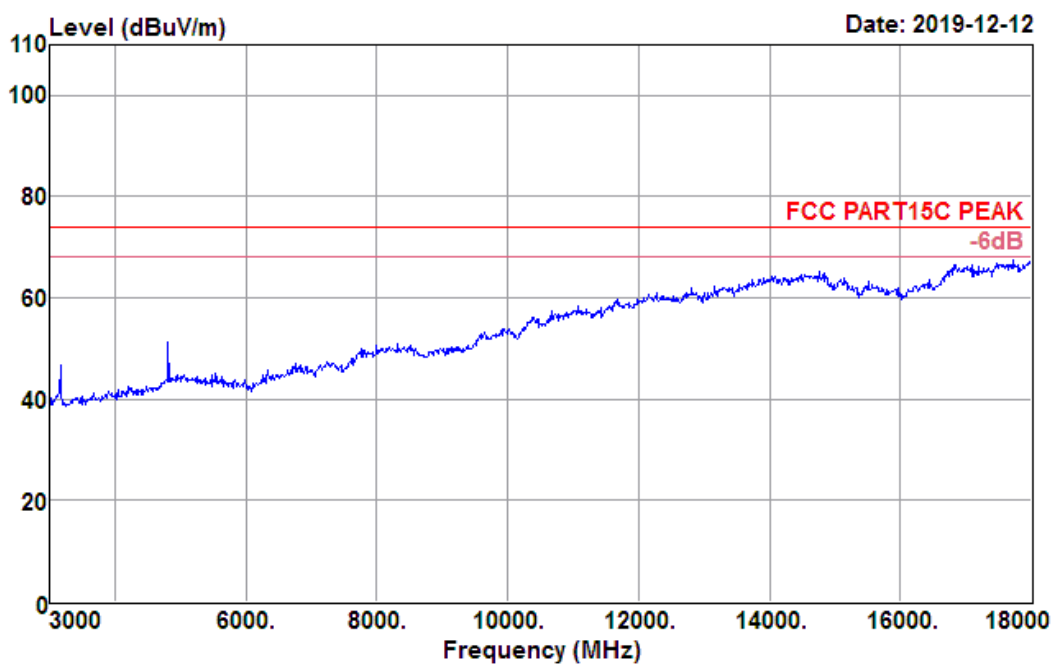
Data: 128



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	101.88	27.17	3.55	35.58	97.02	74.00	23.02	Peak

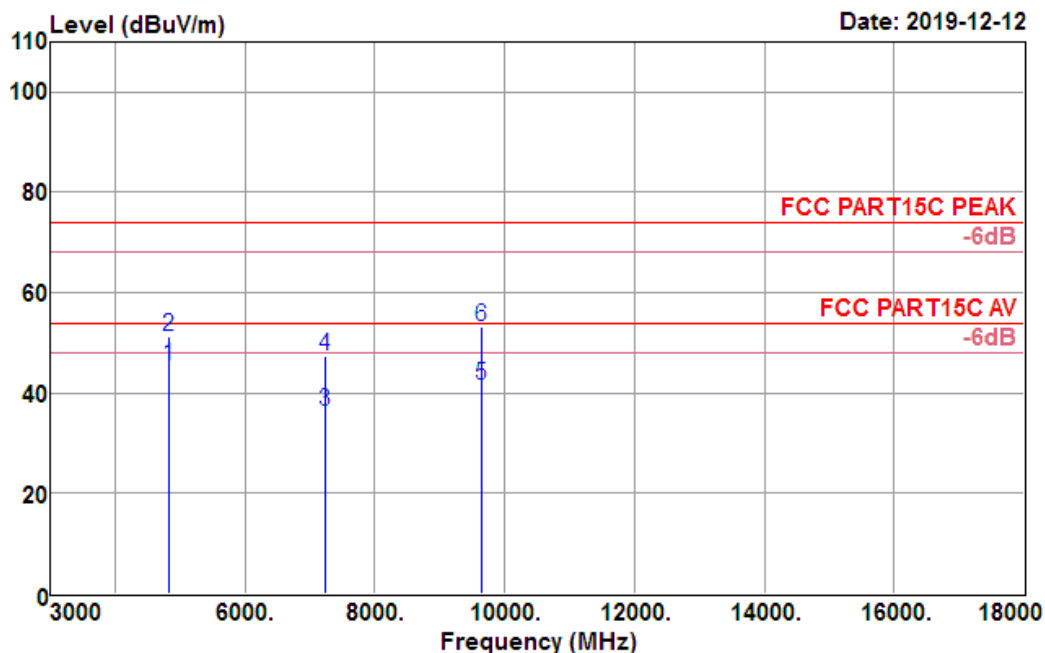
Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 119



Data: 120

Date: 2019-12-12

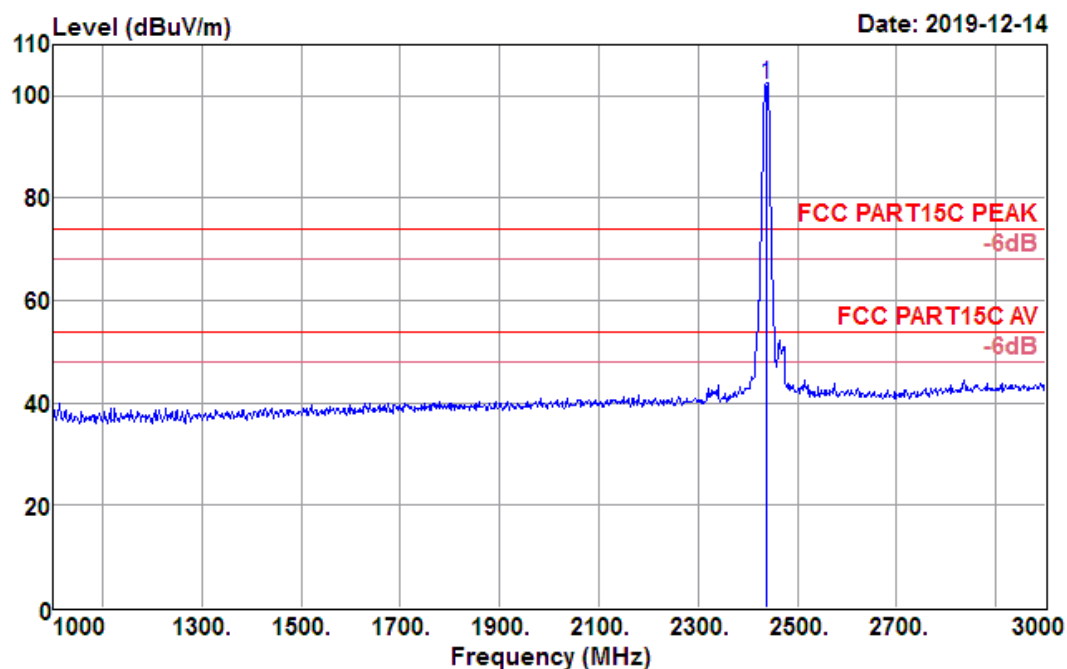


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	43.46	31.28	5.56	34.84	45.46	54.00	-8.54	Average
4824.000	49.19	31.28	5.56	34.84	51.19	74.00	-22.81	Peak
7236.000	29.26	35.94	7.61	36.40	36.41	54.00	-17.59	Average
7236.000	40.37	35.94	7.61	36.40	47.52	74.00	-26.48	Peak
9648.000	29.55	37.87	10.41	36.40	41.43	54.00	-12.57	Average
9648.000	41.40	37.87	10.41	36.40	53.28	74.00	-20.72	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

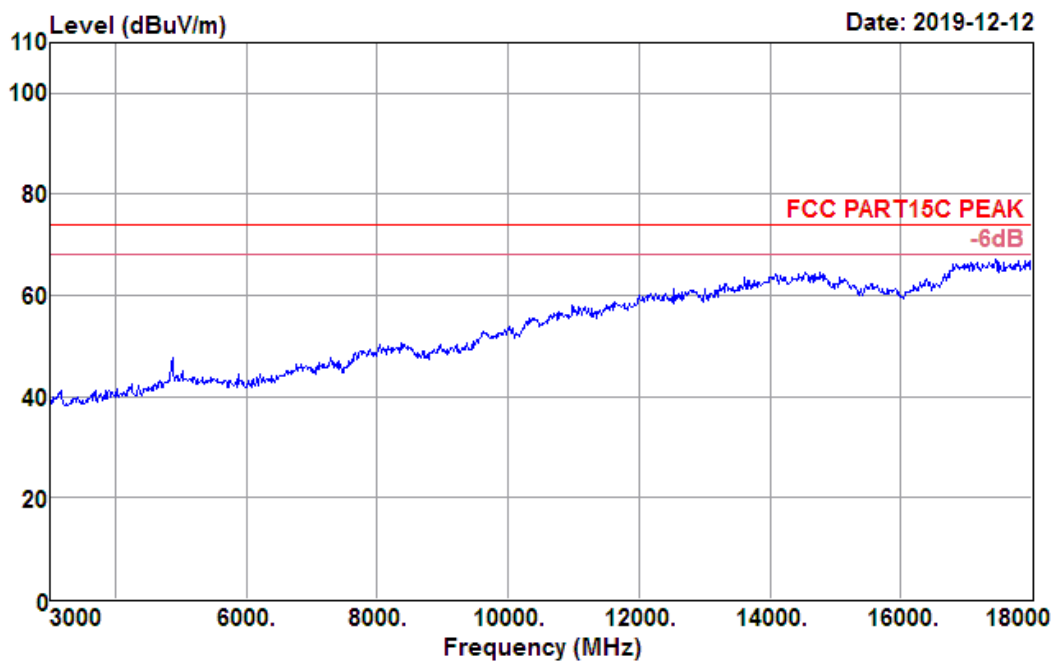
Data: 130



Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
2437.000	107.15	27.24	3.56	35.61	102.34	74.00	28.34	Peak

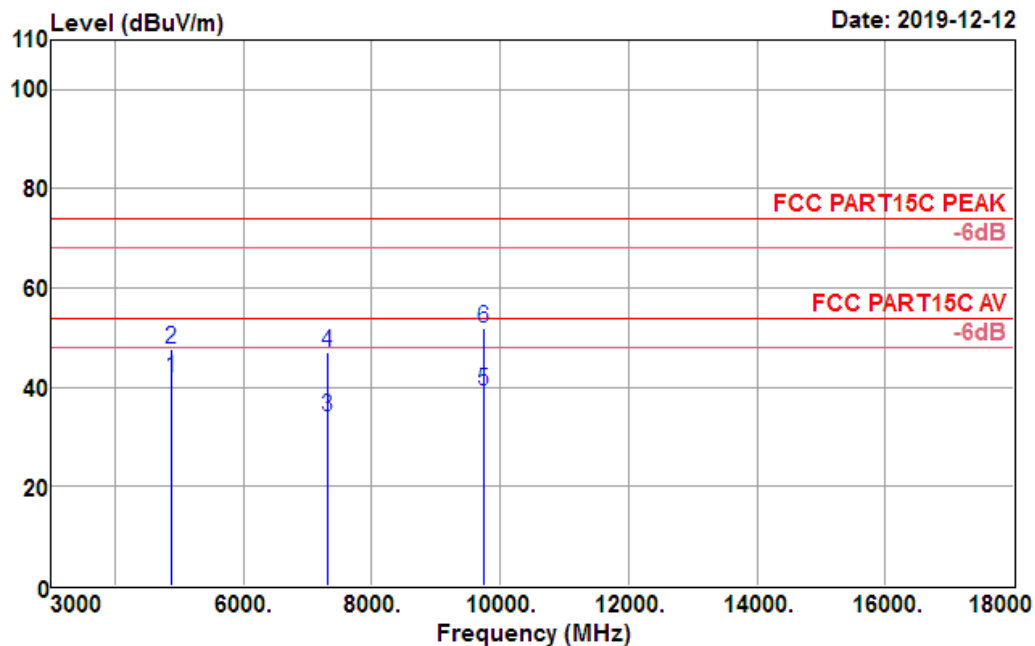
Test Mode :	802.11b CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 131



Data: 132

Date: 2019-12-12

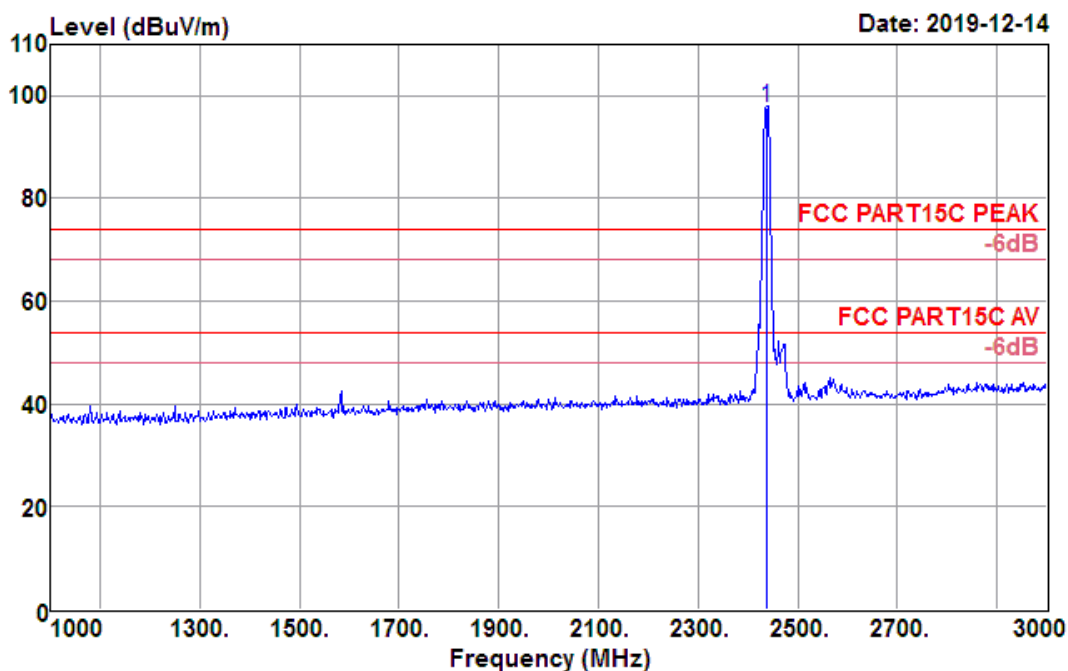


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	39.68	31.40	5.55	34.80	41.83	54.00	-12.17	Average
4874.000	45.44	31.40	5.55	34.80	47.59	74.00	-26.41	Peak
7311.000	26.69	36.12	7.53	36.40	33.94	54.00	-20.06	Average
7311.000	39.73	36.12	7.53	36.40	46.98	74.00	-27.02	Peak
9748.000	27.04	38.05	10.70	36.40	39.39	54.00	-14.61	Average
9748.000	39.50	38.05	10.70	36.40	51.85	74.00	-22.15	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

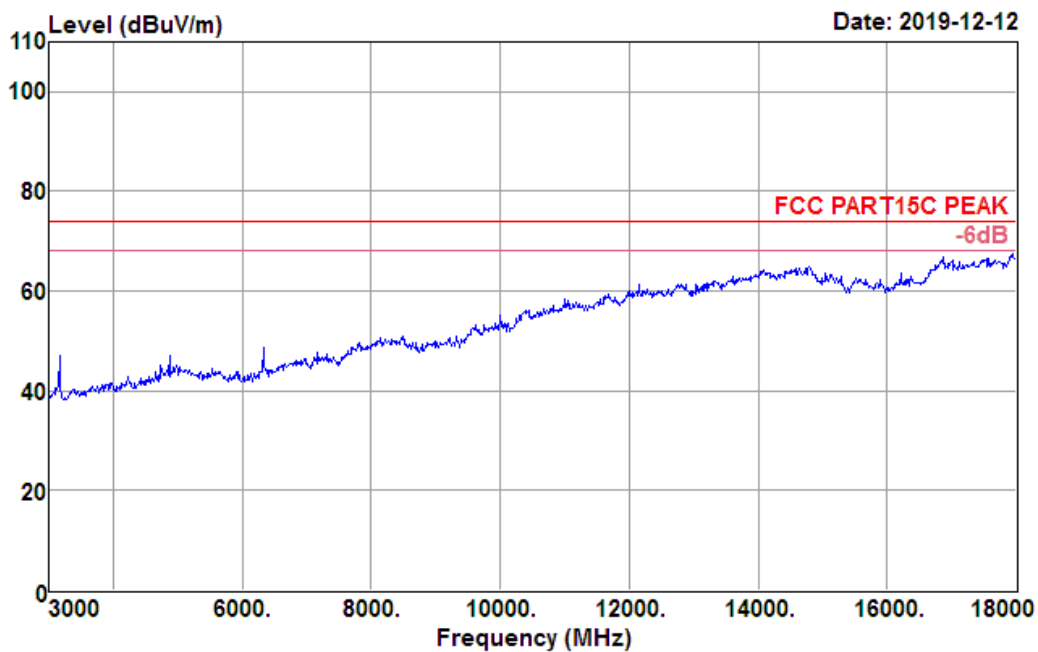
Data: 129



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	102.59	27.24	3.56	35.61	97.78	74.00	23.78	Peak

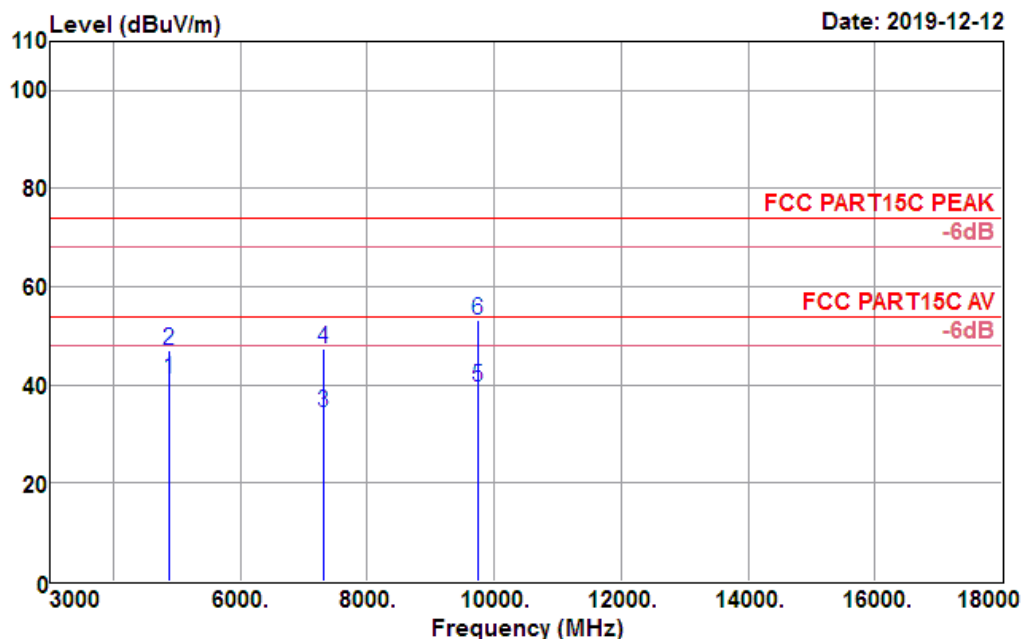
Test Mode :	802.11b CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 133



Data: 134

Date: 2019-12-12

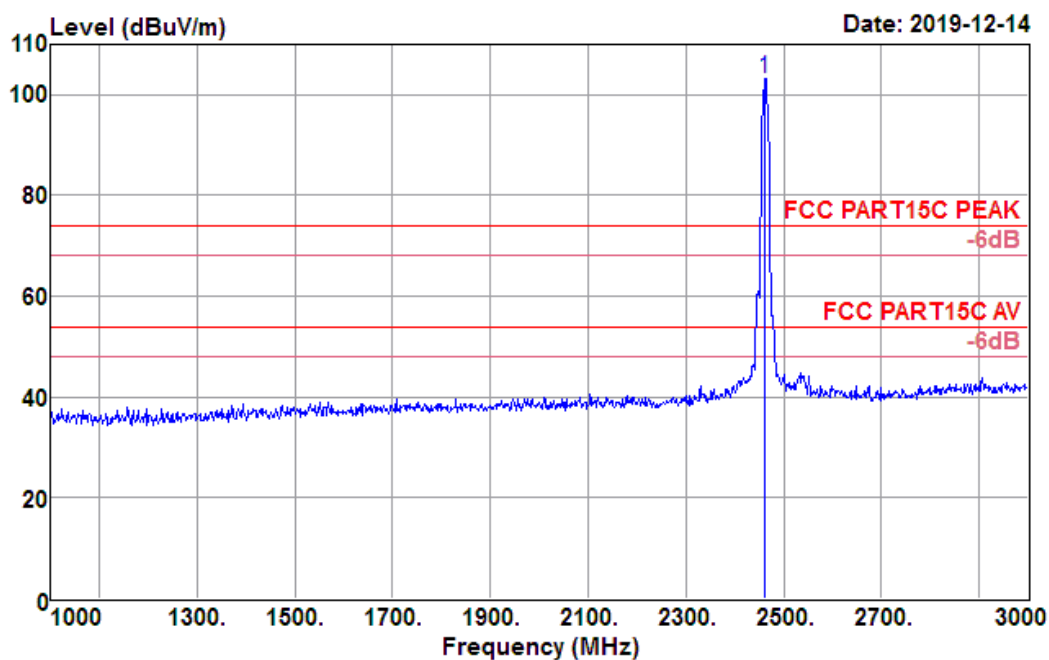


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	39.10	31.40	5.55	34.80	41.25	54.00	-12.75	Average
4874.000	44.92	31.40	5.55	34.80	47.07	74.00	-26.93	Peak
7311.000	27.05	36.12	7.53	36.40	34.30	54.00	-19.70	Average
7311.000	40.26	36.12	7.53	36.40	47.51	74.00	-26.49	Peak
9748.000	27.22	38.05	10.70	36.40	39.57	54.00	-14.43	Average
9748.000	40.85	38.05	10.70	36.40	53.20	74.00	-20.80	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

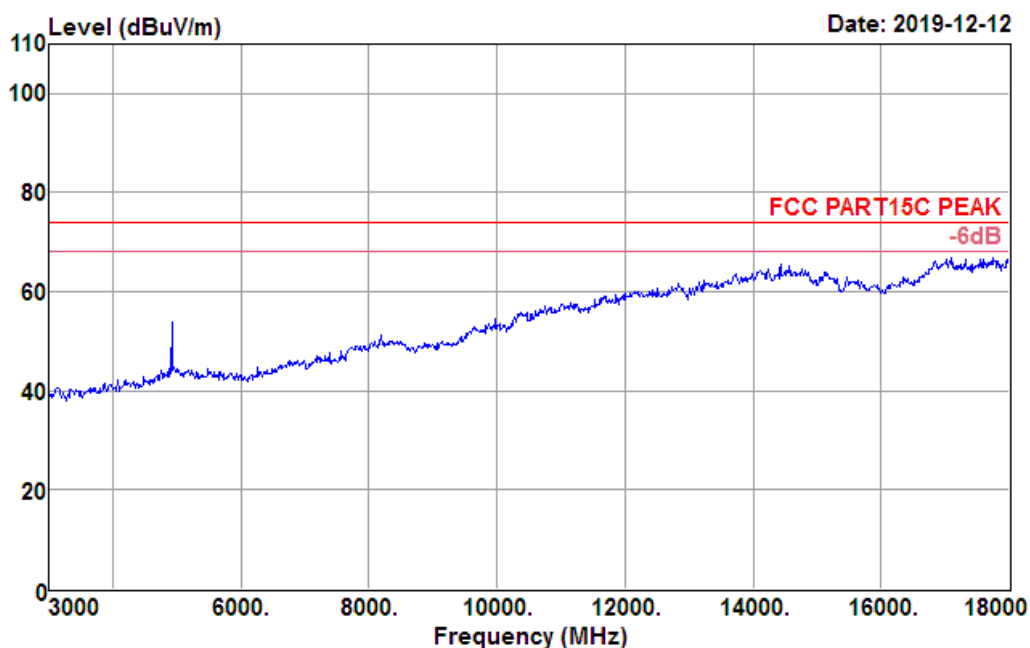
Data: 141



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	107.81	27.30	3.58	35.65	103.04	74.00	29.04	Peak

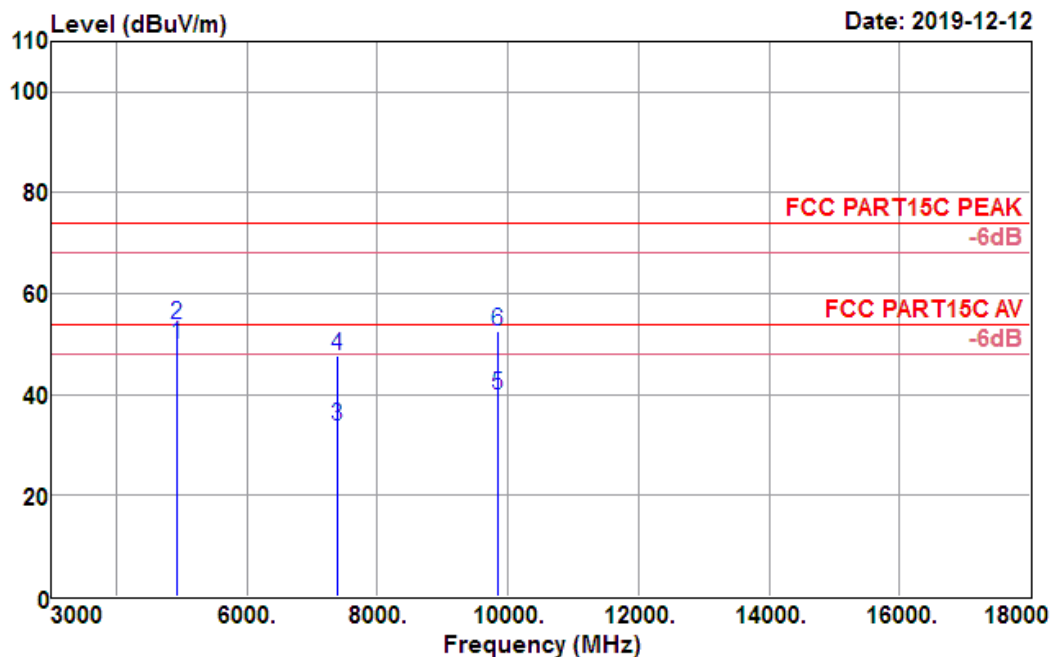
Test Mode :	802.11b CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 137



Data: 138

Date: 2019-12-12

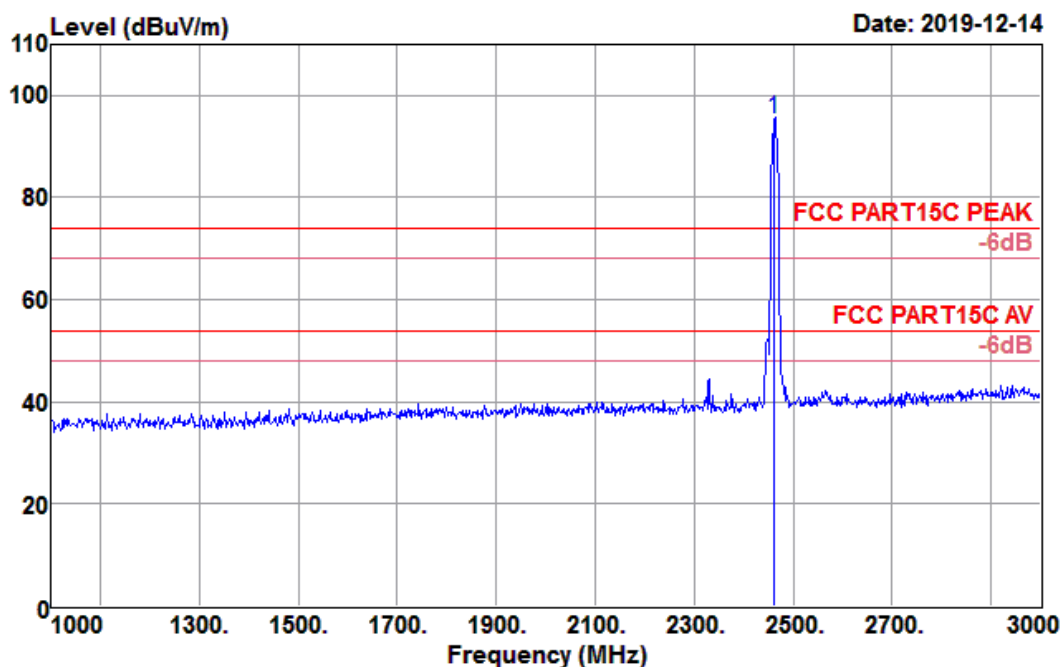


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	47.62	31.52	5.53	34.76	49.91	54.00	-4.09	Average
4924.000	51.45	31.52	5.53	34.76	53.74	74.00	-20.26	Peak
7386.000	26.51	36.29	7.46	36.40	33.86	54.00	-20.14	Average
7386.000	40.33	36.29	7.46	36.40	47.68	74.00	-26.32	Peak
9848.000	26.97	38.23	10.98	36.40	39.78	54.00	-14.22	Average
9848.000	39.91	38.23	10.98	36.40	52.72	74.00	-21.28	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

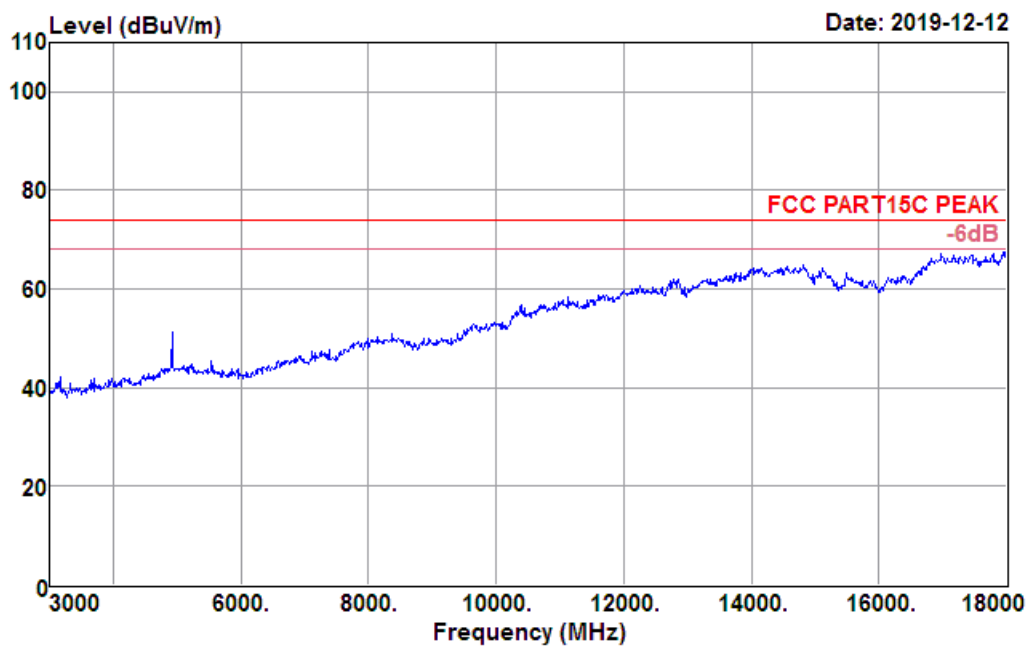
Data: 144



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	100.15	27.30	3.58	35.65	95.38	74.00	21.38	Peak

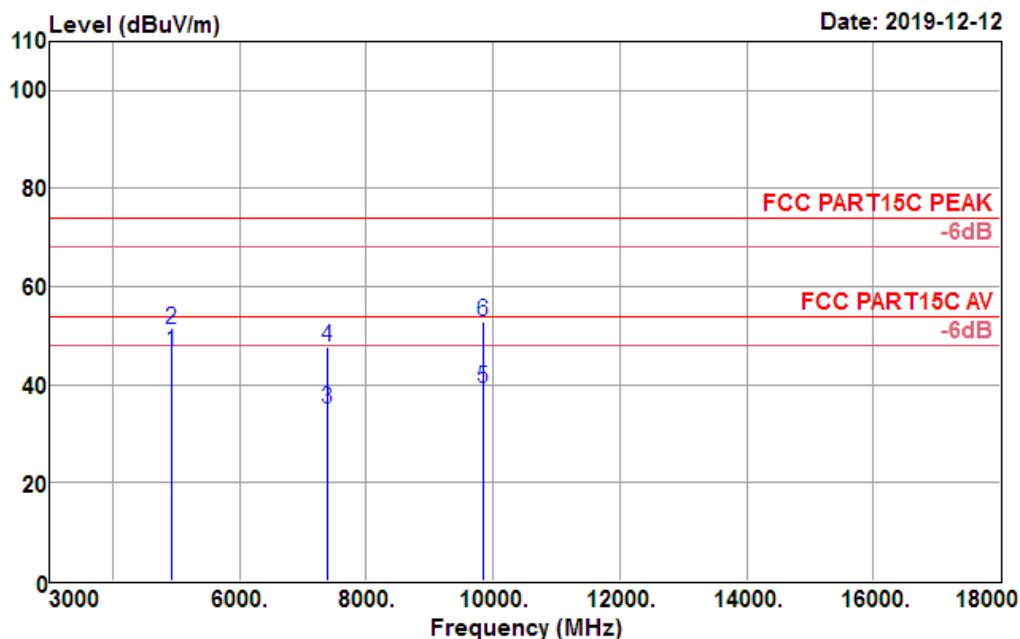
Test Mode :	802.11b CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 135



Data: 136

Date: 2019-12-12

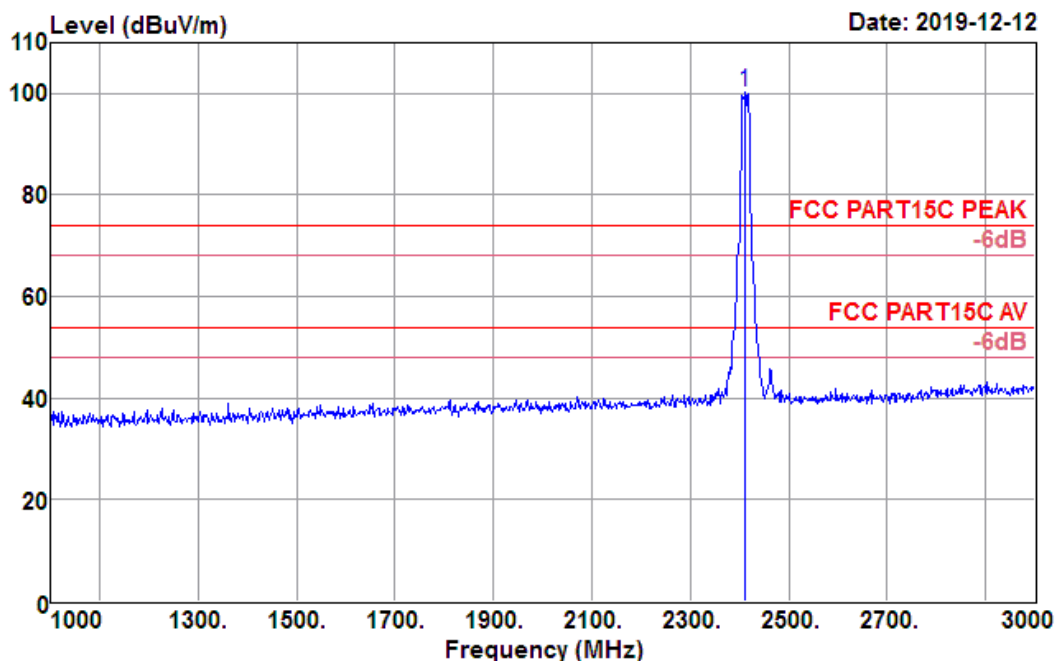


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	44.42	31.52	5.53	34.76	46.71	54.00	-7.29	Average
4924.000	48.90	31.52	5.53	34.76	51.19	74.00	-22.81	Peak
7386.000	27.57	36.29	7.46	36.40	34.92	54.00	-19.08	Average
7386.000	40.30	36.29	7.46	36.40	47.65	74.00	-26.35	Peak
9848.000	26.52	38.23	10.98	36.40	39.33	54.00	-14.67	Average
9848.000	39.99	38.23	10.98	36.40	52.80	74.00	-21.20	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

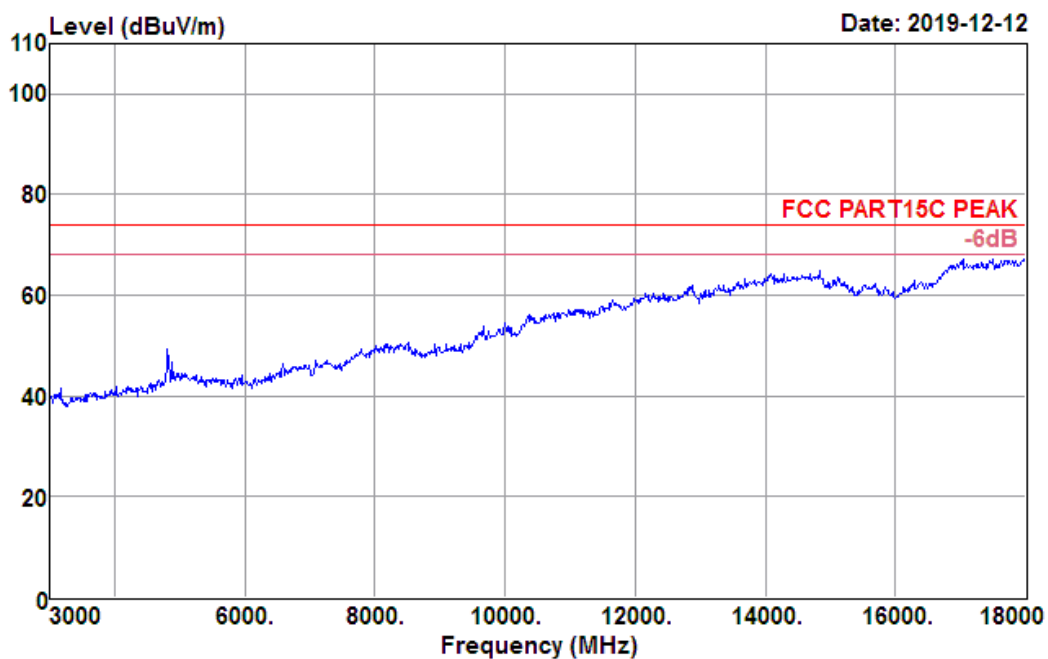
Data: 151



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	105.13	27.17	3.55	35.58	100.27	74.00	26.27	Peak

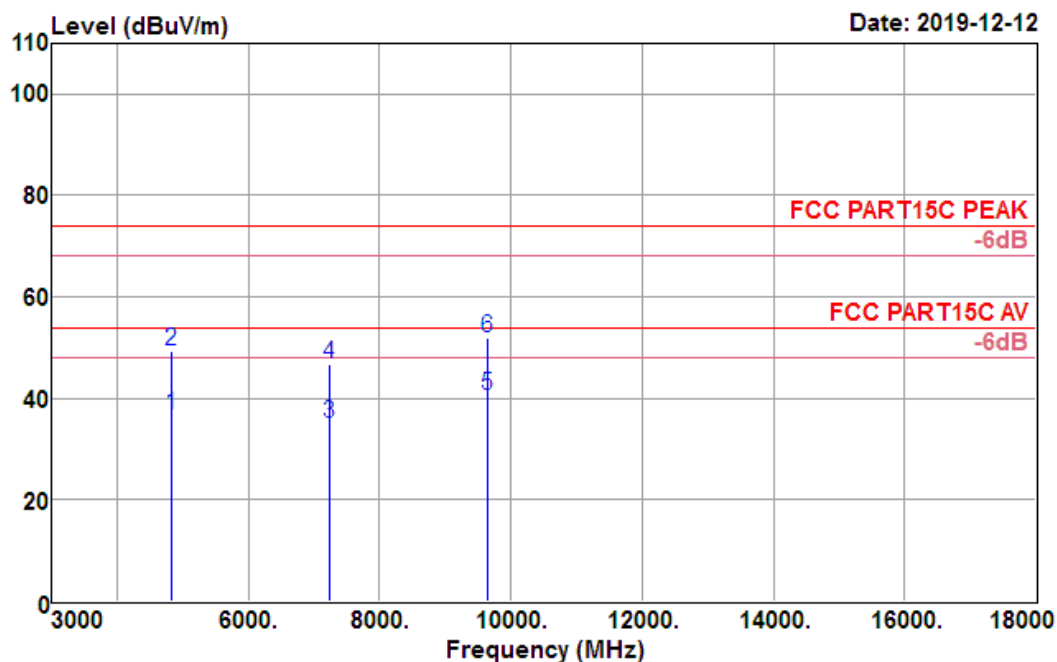
Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 147



Data: 148

Date: 2019-12-12

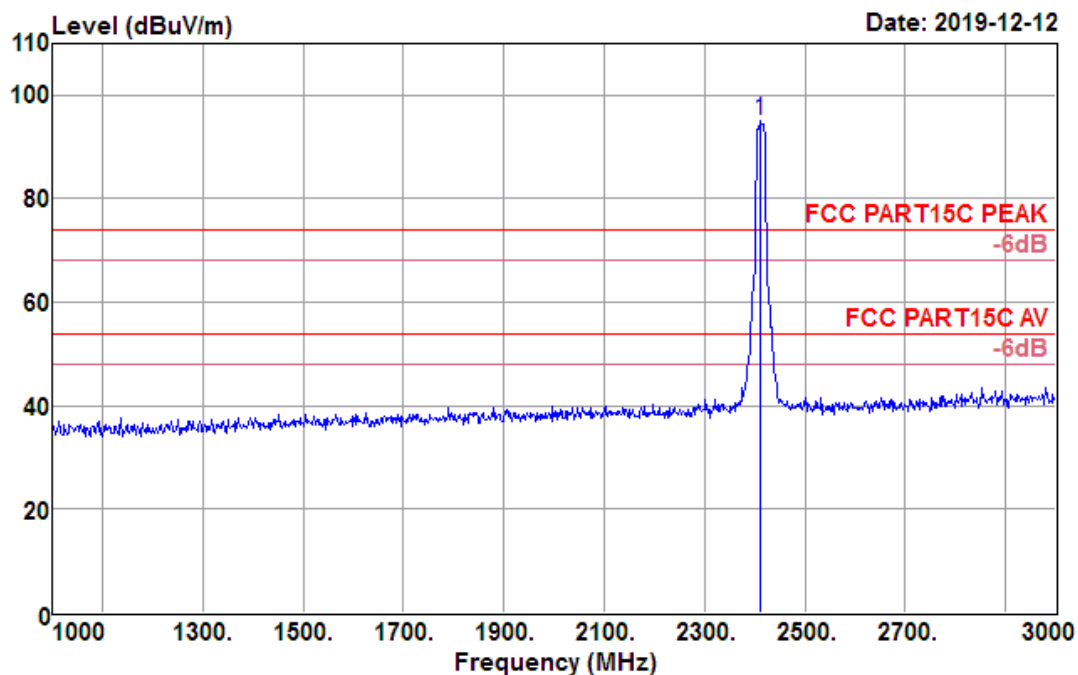


Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
4824.000	34.84	31.28	5.56	34.84	36.84	54.00	-17.16	Average
4824.000	47.41	31.28	5.56	34.84	49.41	74.00	-24.59	Peak
7236.000	27.86	35.94	7.61	36.40	35.01	54.00	-18.99	Average
7236.000	39.68	35.94	7.61	36.40	46.83	74.00	-27.17	Peak
9648.000	28.69	37.87	10.41	36.40	40.57	54.00	-13.43	Average
9648.000	40.05	37.87	10.41	36.40	51.93	74.00	-22.07	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

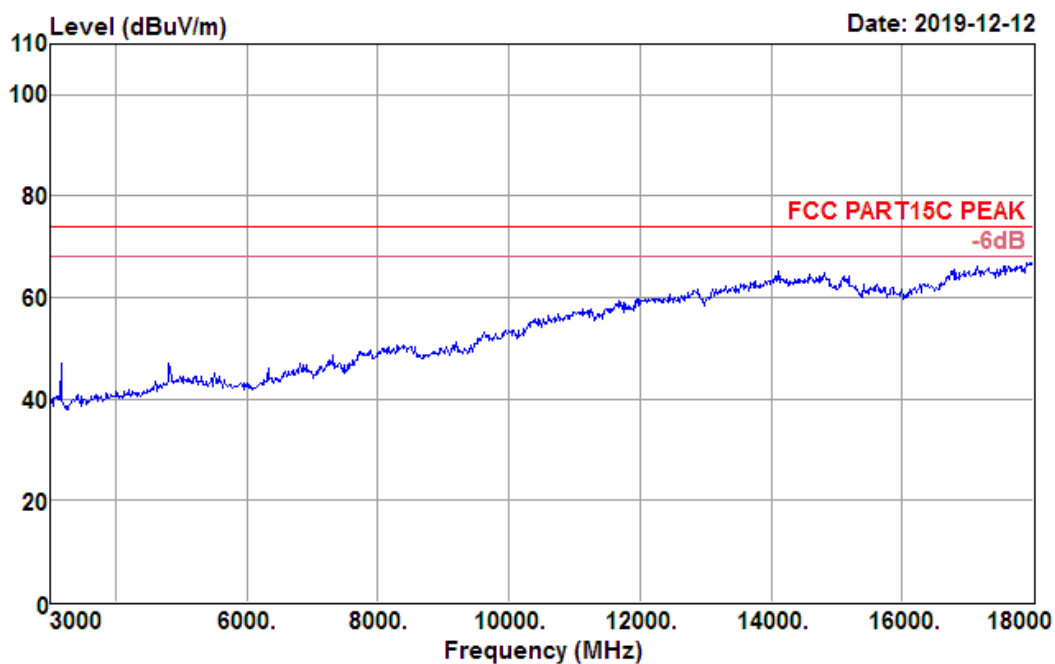
Data: 154



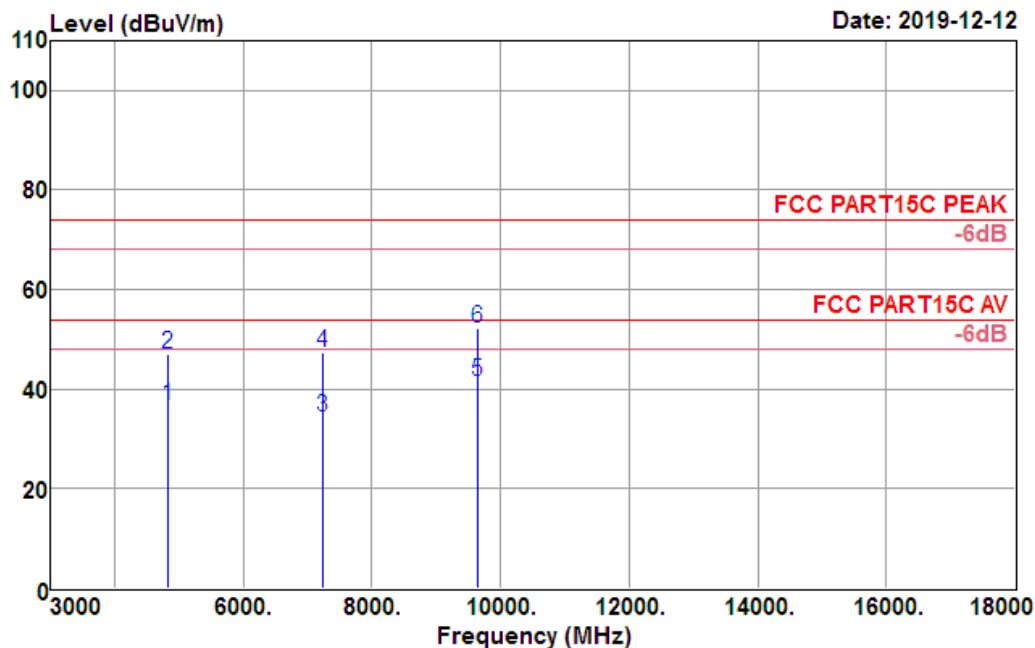
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	99.93	27.17	3.55	35.58	95.07	74.00	21.07	Peak

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 145



Data: 146

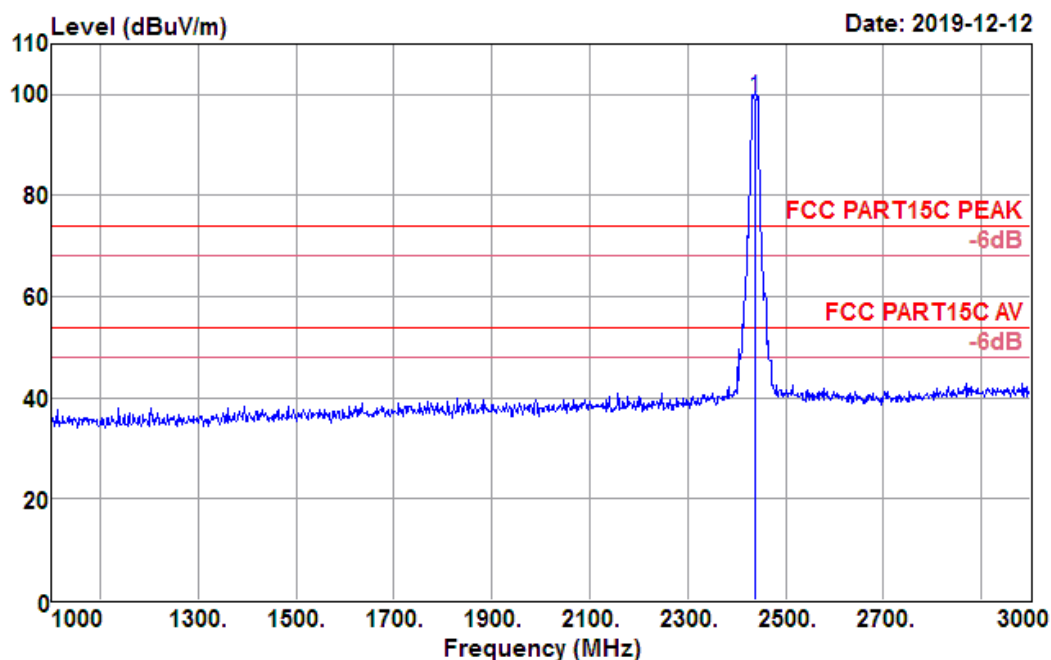


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	34.81	31.28	5.56	34.84	36.81	54.00	-17.19	Average
4824.000	45.03	31.28	5.56	34.84	47.03	74.00	-26.97	Peak
7236.000	27.31	35.94	7.61	36.40	34.46	54.00	-19.54	Average
7236.000	40.32	35.94	7.61	36.40	47.47	74.00	-26.53	Peak
9648.000	29.74	37.87	10.41	36.40	41.62	54.00	-12.38	Average
9648.000	40.27	37.87	10.41	36.40	52.15	74.00	-21.85	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

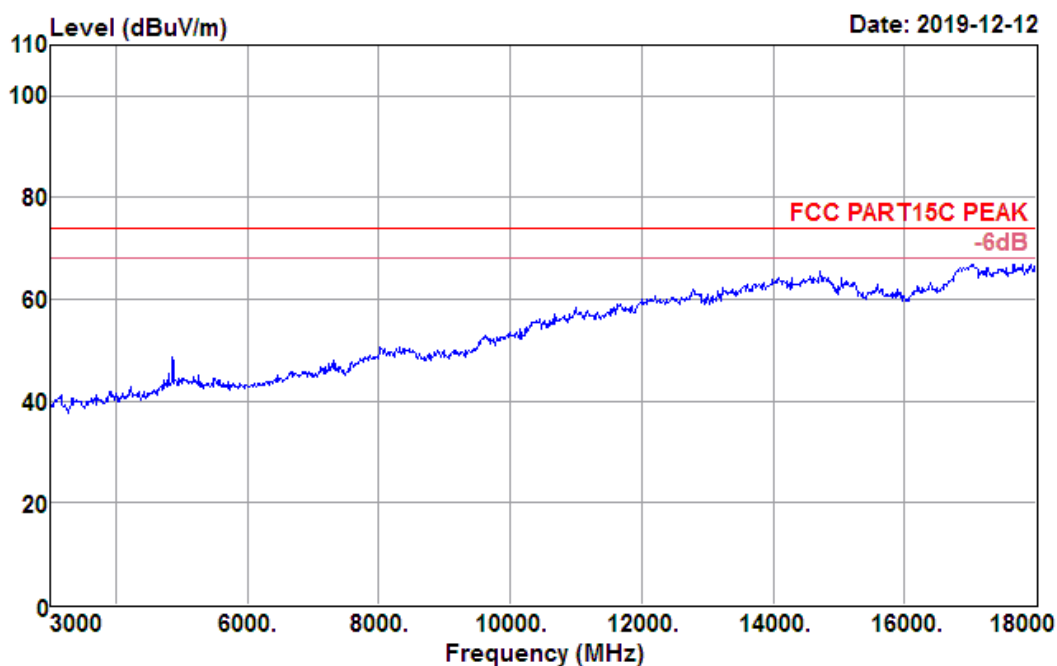
Data: 156



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	104.08	27.24	3.56	35.61	99.27	74.00	25.27	Peak

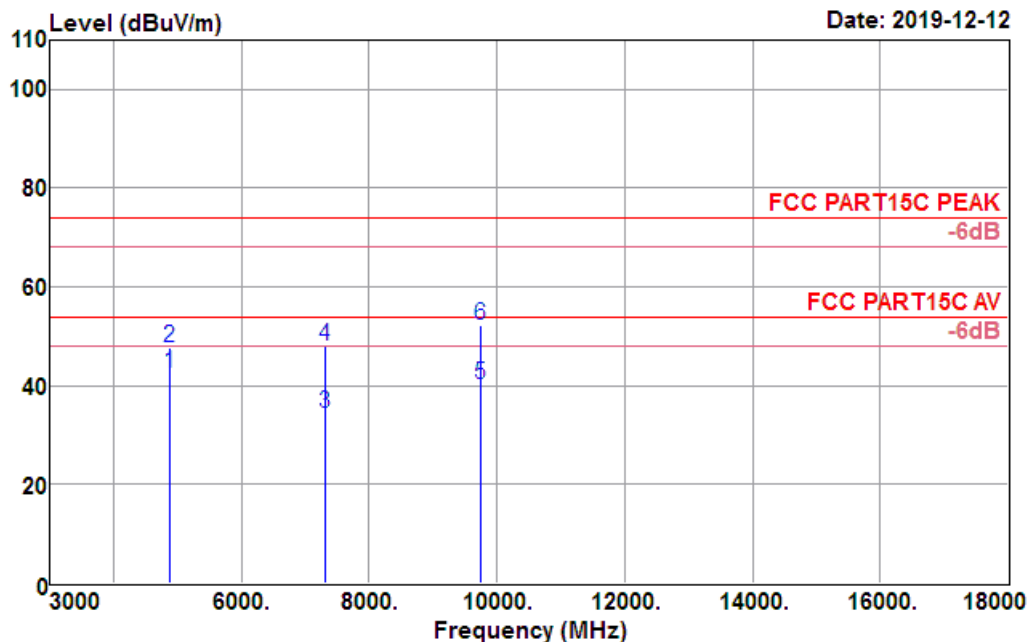
Test Mode :	802.11g CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 158



Data: 157

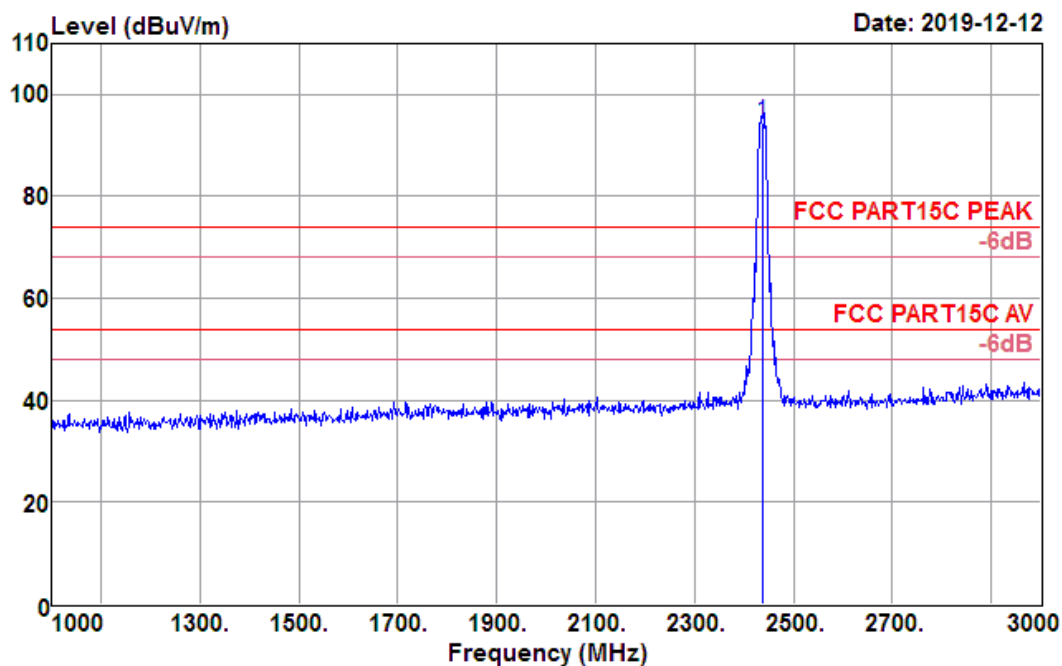
Date: 2019-12-12



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

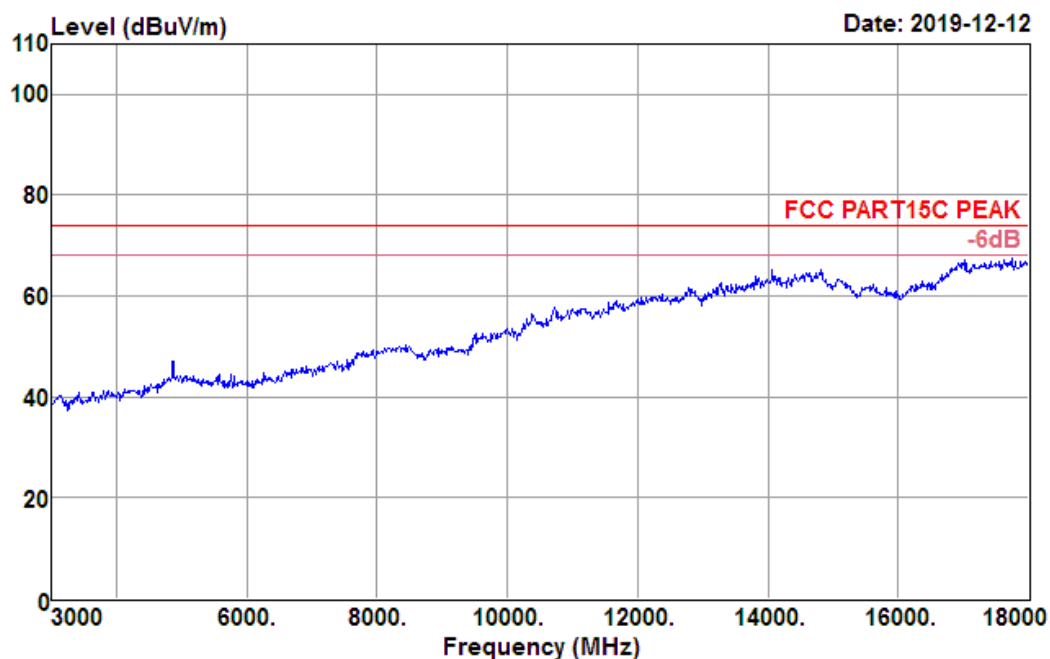
Data: 155



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	99.17	27.24	3.56	35.61	94.36	74.00	20.36	Peak

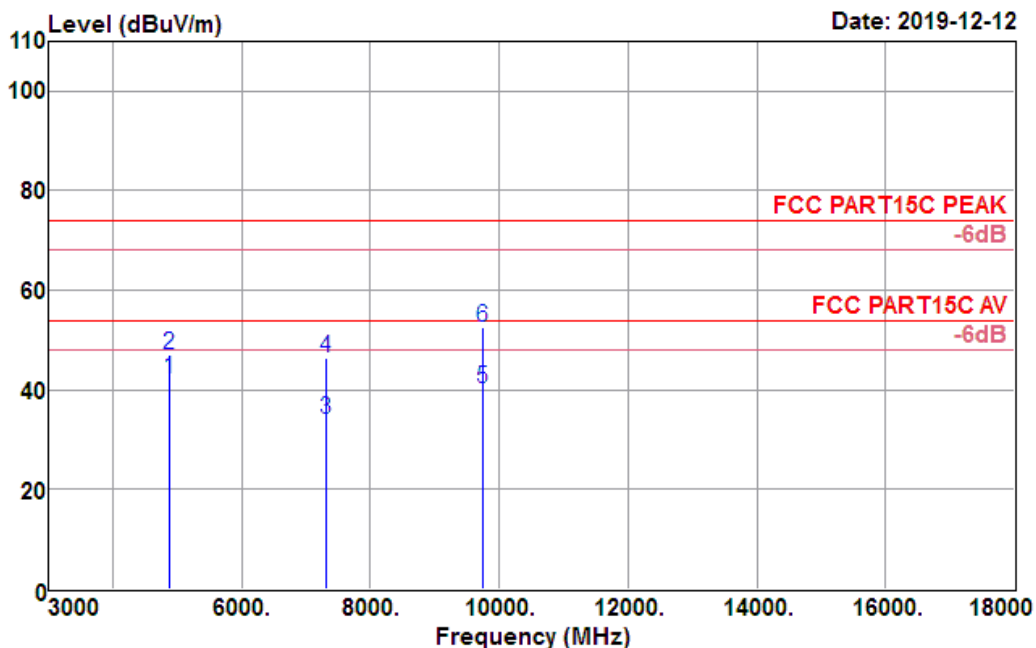
Test Mode :	802.11g CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 159



Data: 160

Date: 2019-12-12

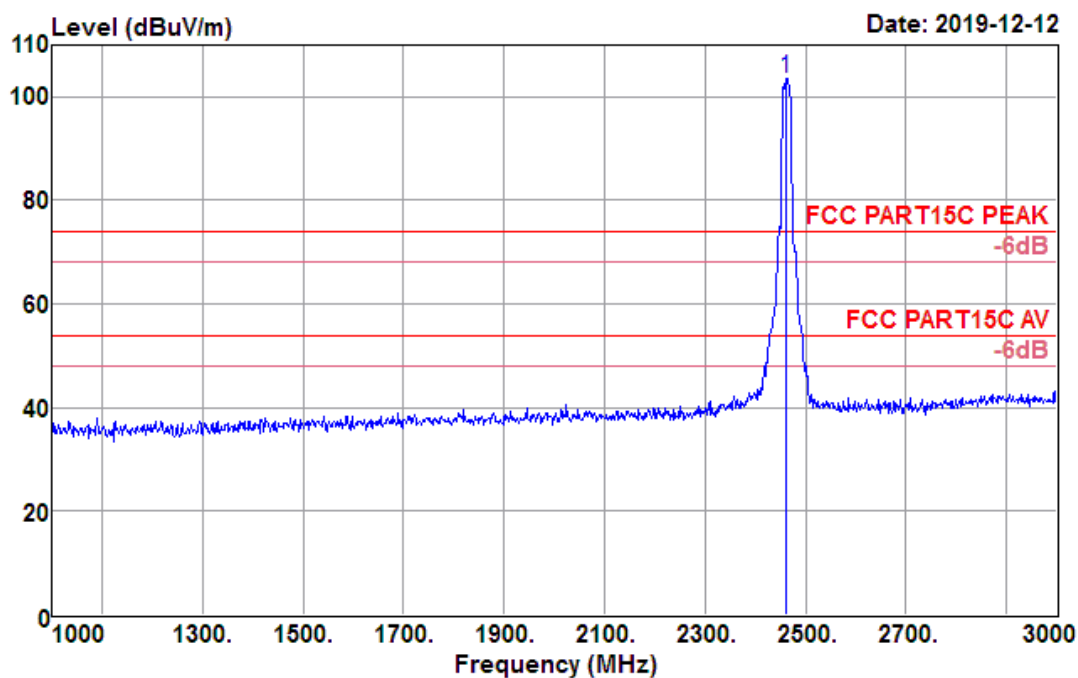


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	39.93	31.40	5.55	34.80	42.08	54.00	-11.92	Average
4874.000	44.82	31.40	5.55	34.80	46.97	74.00	-27.03	Peak
7311.000	26.91	36.12	7.53	36.40	34.16	54.00	-19.84	Average
7311.000	39.32	36.12	7.53	36.40	46.57	74.00	-27.43	Peak
9748.000	27.85	38.05	10.70	36.40	40.20	54.00	-13.80	Average
9748.000	40.12	38.05	10.70	36.40	52.47	74.00	-21.53	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

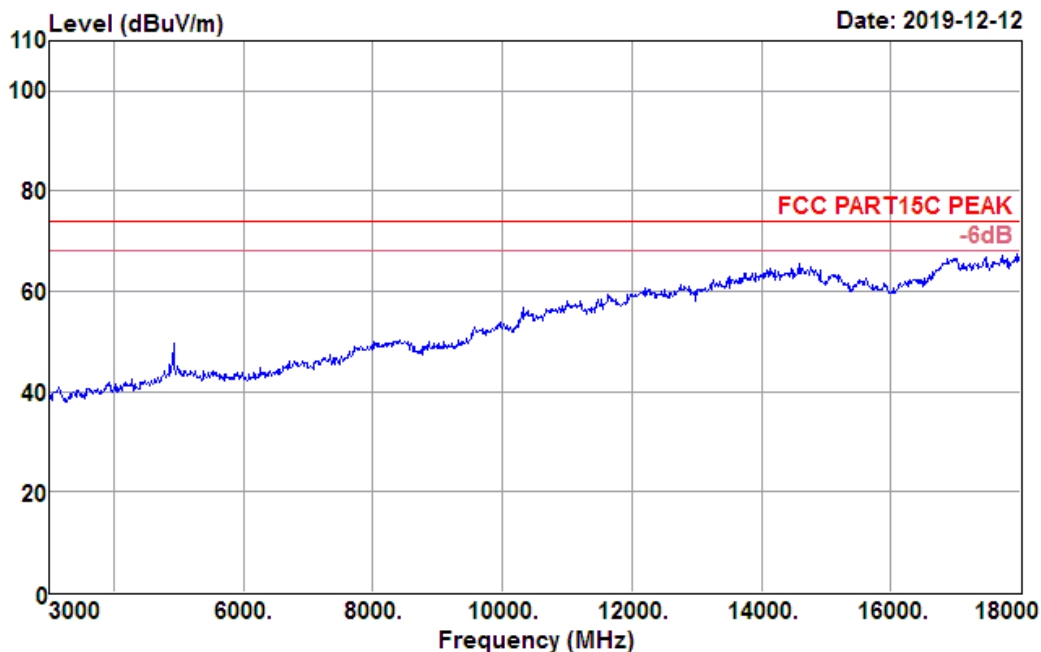
Data: 167



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	108.33	27.30	3.58	35.65	103.56	74.00	29.56	Peak

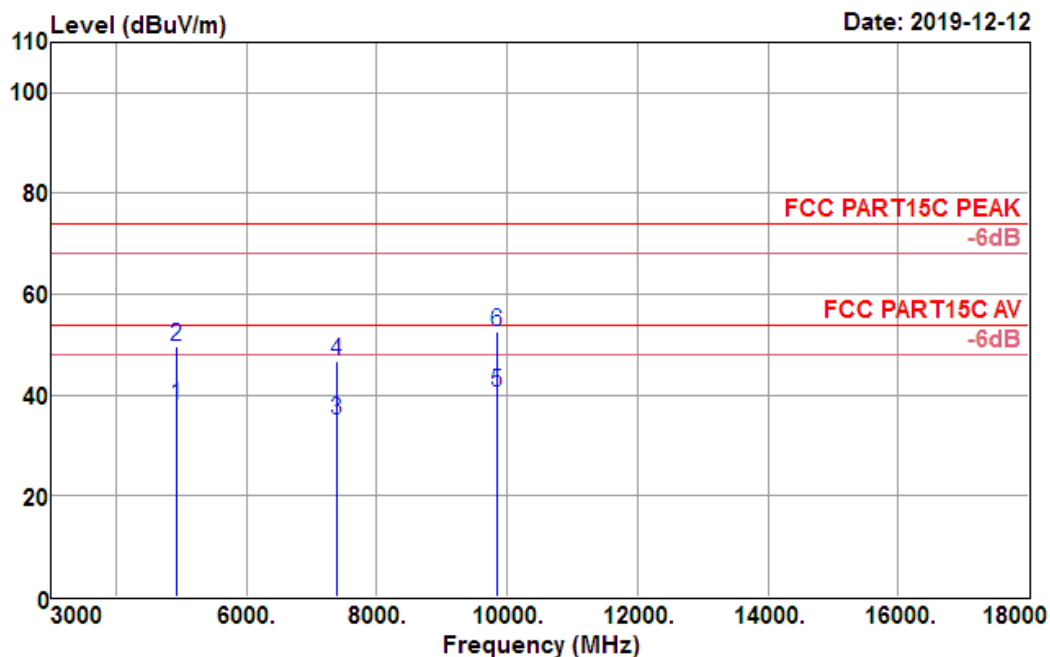
Test Mode :	802.11g CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 163



Data: 164

Date: 2019-12-12

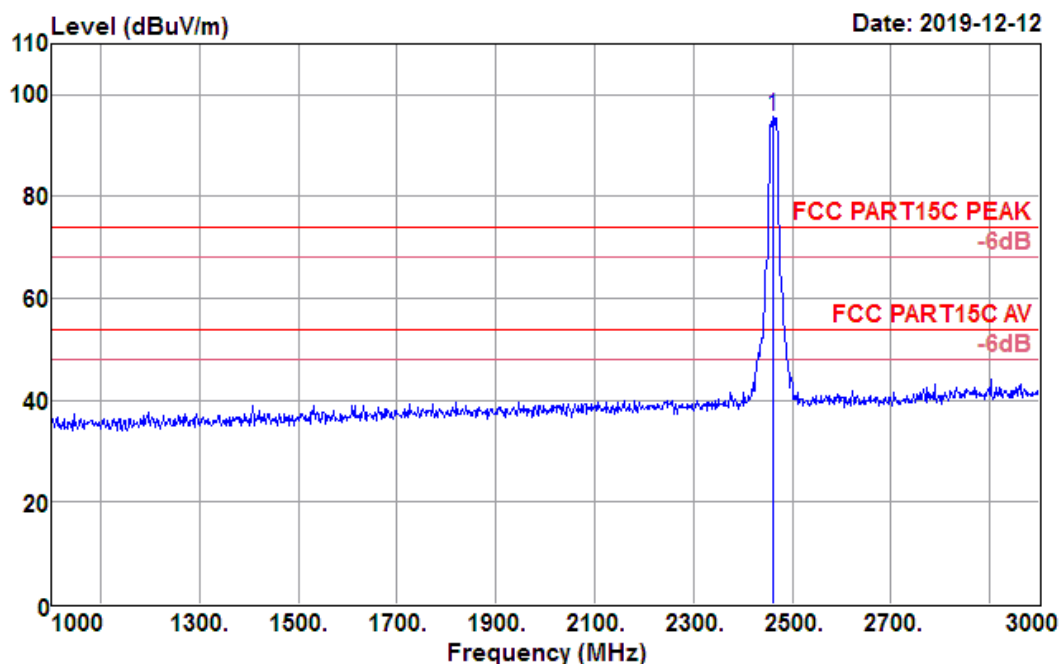


Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
4924.000	35.80	31.52	5.53	34.76	38.09	54.00	-15.91	Average
4924.000	47.37	31.52	5.53	34.76	49.66	74.00	-24.34	Peak
7386.000	27.81	36.29	7.46	36.40	35.16	54.00	-18.84	Average
7386.000	39.36	36.29	7.46	36.40	46.71	74.00	-27.29	Peak
9848.000	27.84	38.23	10.98	36.40	40.65	54.00	-13.35	Average
9848.000	39.81	38.23	10.98	36.40	52.62	74.00	-21.38	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

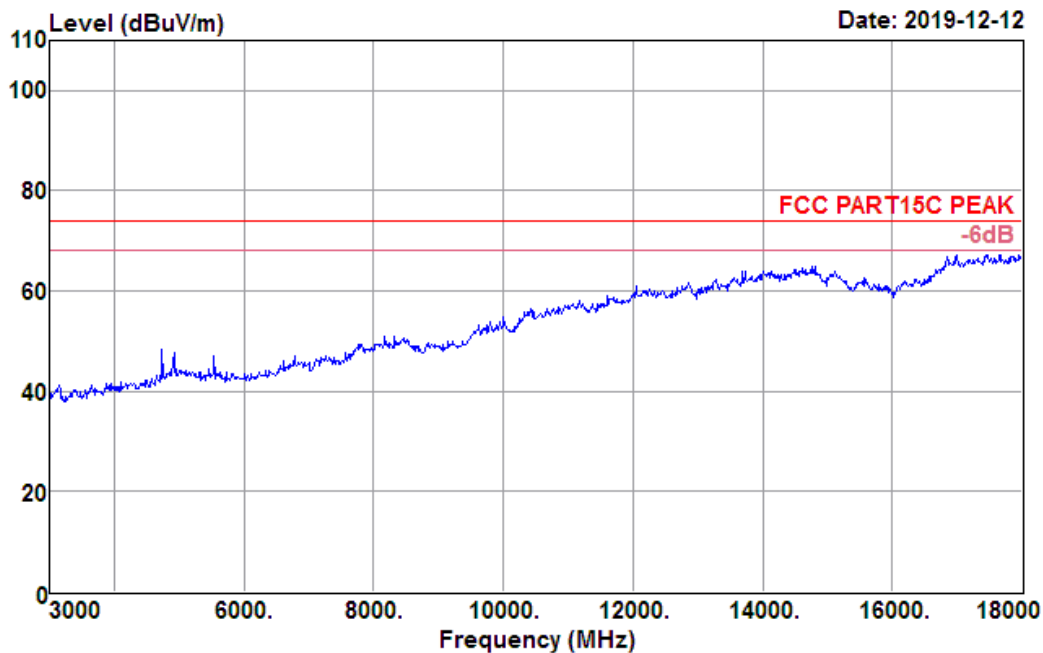
Data: 170



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	100.56	27.30	3.58	35.65	95.79	74.00	21.79	Peak

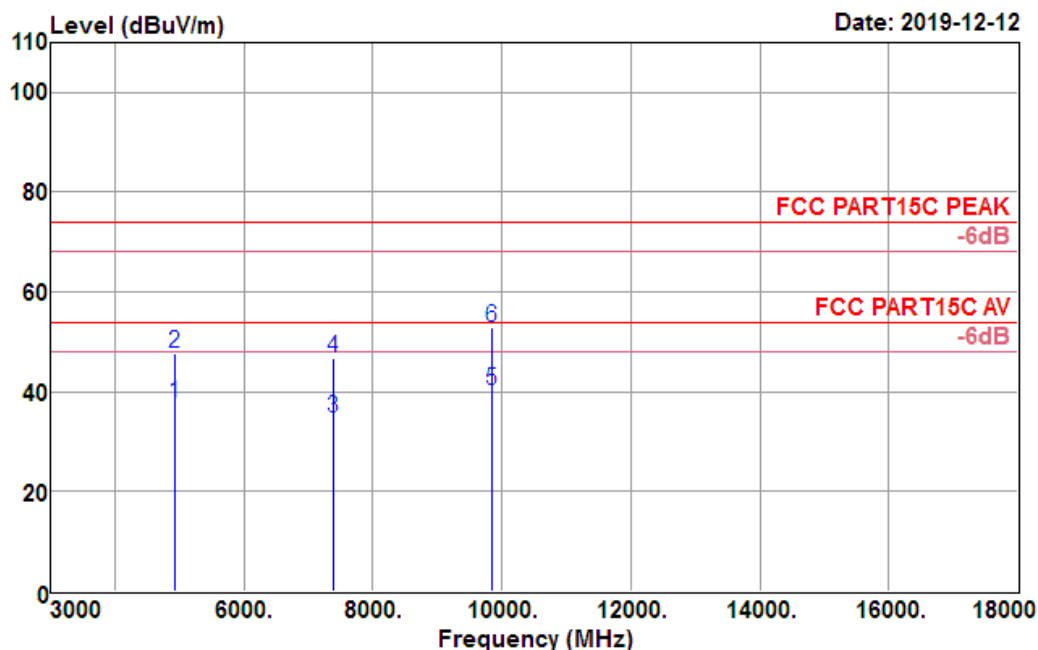
Test Mode :	802.11g CH11 (2462MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 161



Data: 162

Date: 2019-12-12

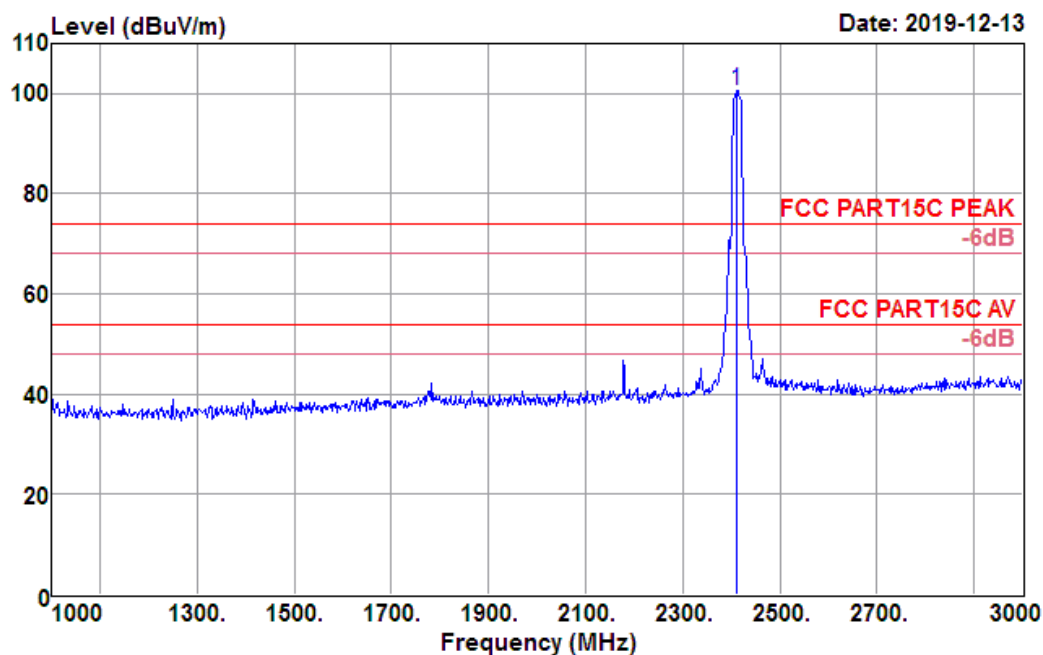


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	35.39	31.52	5.53	34.76	37.68	54.00	-16.32	Average
4924.000	45.31	31.52	5.53	34.76	47.60	74.00	-26.40	Peak
7386.000	27.28	36.29	7.46	36.40	34.63	54.00	-19.37	Average
7386.000	39.38	36.29	7.46	36.40	46.73	74.00	-27.27	Peak
9848.000	27.38	38.23	10.98	36.40	40.19	54.00	-13.81	Average
9848.000	40.00	38.23	10.98	36.40	52.81	74.00	-21.19	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

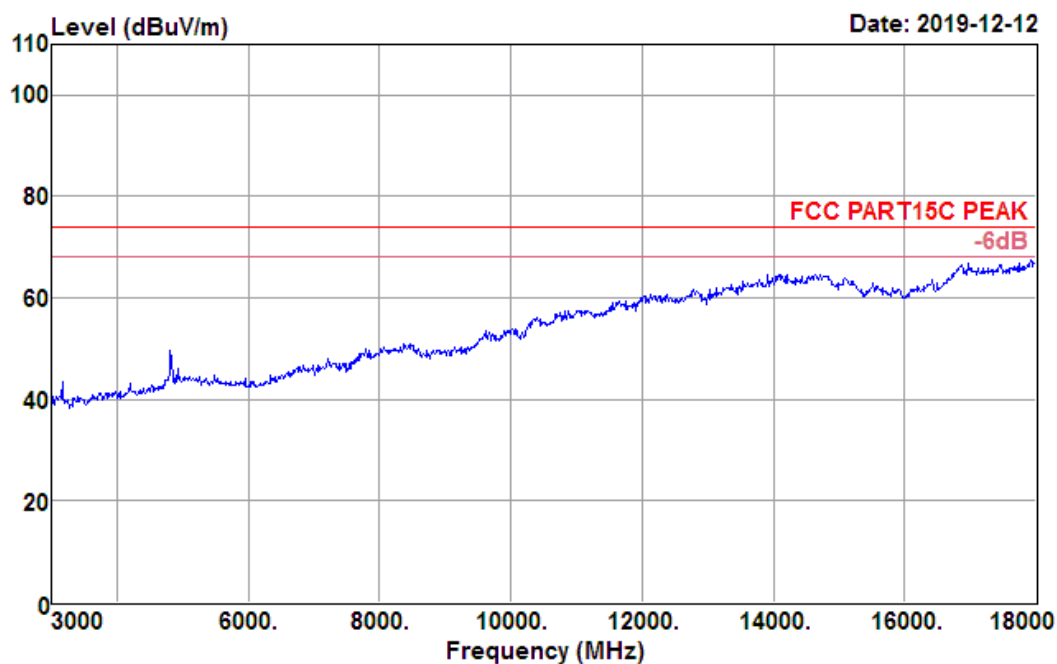
Data: 177



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	105.55	27.17	3.55	35.58	100.69	74.00	26.69	Peak

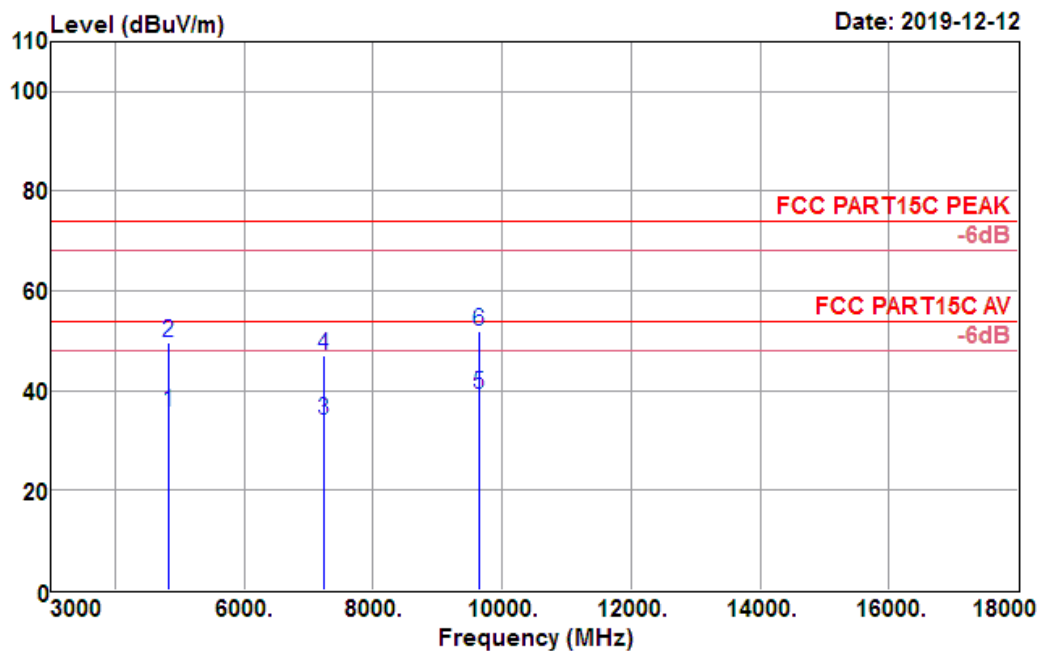
Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 173



Data: 174

Date: 2019-12-12

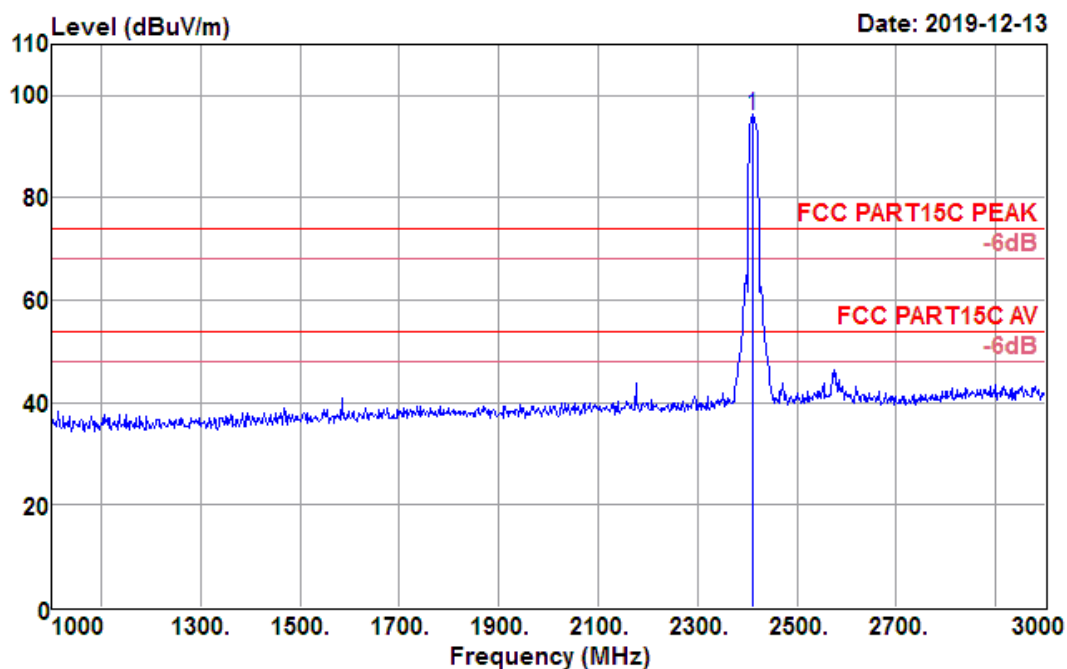


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	33.85	31.28	5.56	34.84	35.85	54.00	-18.15	Average
4824.000	47.53	31.28	5.56	34.84	49.53	74.00	-24.47	Peak
7236.000	26.93	35.94	7.61	36.40	34.08	54.00	-19.92	Average
7236.000	39.83	35.94	7.61	36.40	46.98	74.00	-27.02	Peak
9648.000	27.48	37.87	10.41	36.40	39.36	54.00	-14.64	Average
9648.000	39.91	37.87	10.41	36.40	51.79	74.00	-22.21	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

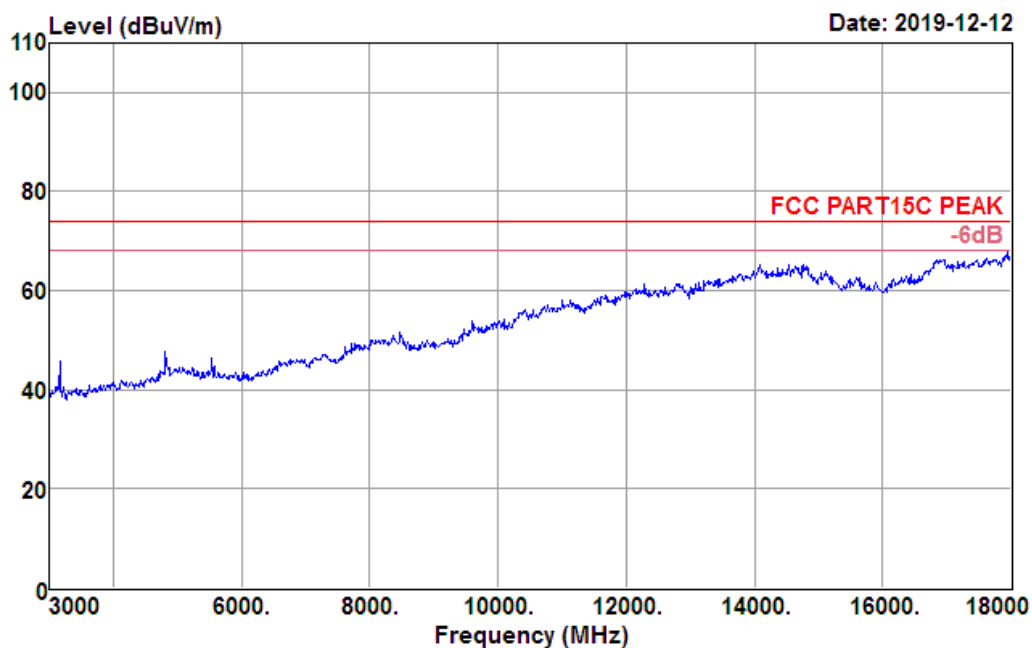
Data: 180



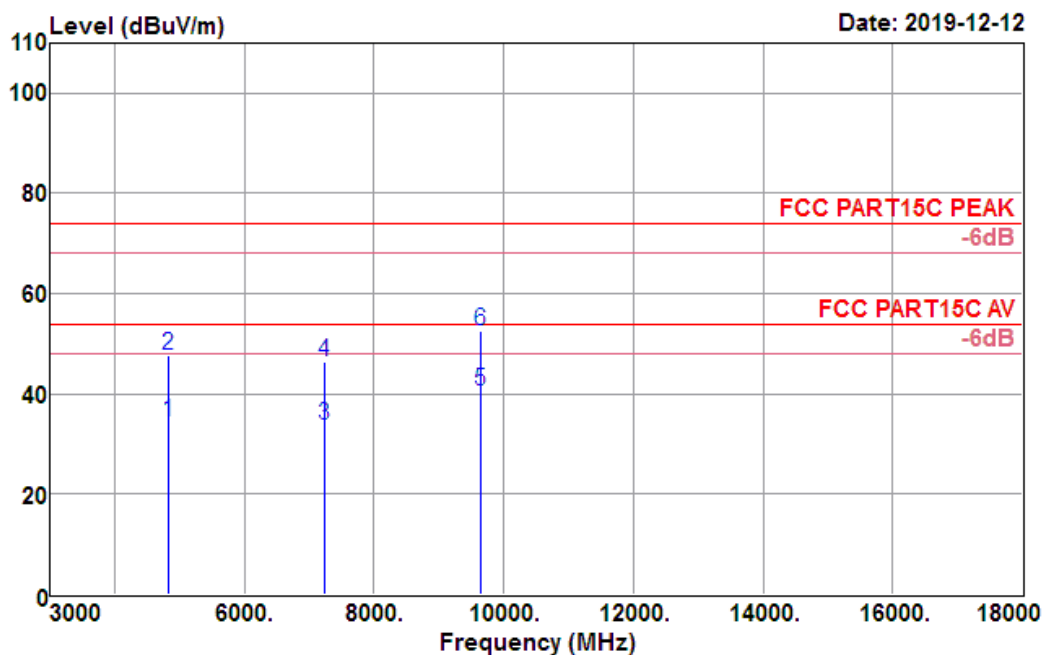
Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
2412.000	100.83	27.17	3.55	35.58	95.97	74.00	21.97	Peak

Test Mode :	802.11n HT20 CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 172



Data: 171

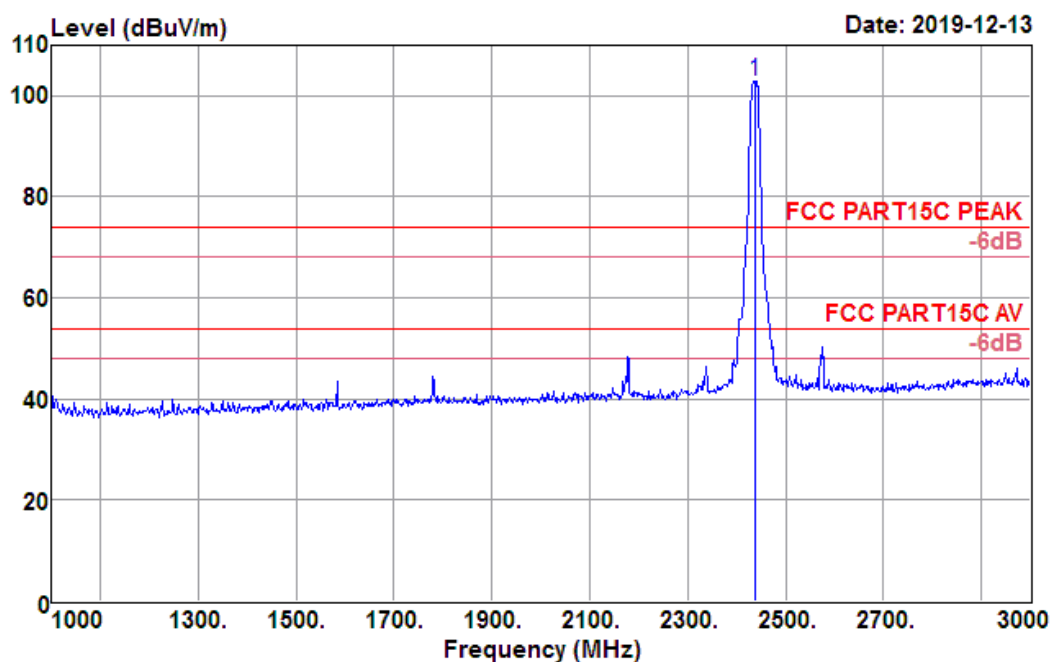


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	32.25	31.28	5.56	34.84	34.25	54.00	-19.75	Average
4824.000	45.86	31.28	5.56	34.84	47.86	74.00	-26.14	Peak
7236.000	26.53	35.94	7.61	36.40	33.68	54.00	-20.32	Average
7236.000	39.28	35.94	7.61	36.40	46.43	74.00	-27.57	Peak
9648.000	28.69	37.87	10.41	36.40	40.57	54.00	-13.43	Average
9648.000	40.74	37.87	10.41	36.40	52.62	74.00	-21.38	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT20 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

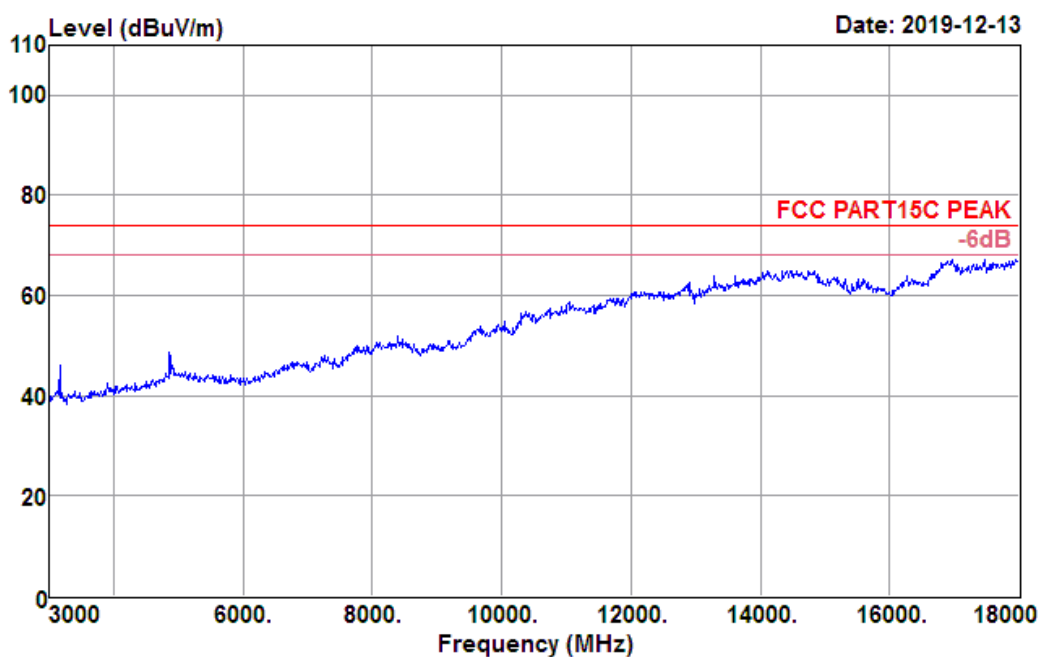
Data: 182



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	107.77	27.24	3.56	35.61	102.96	74.00	28.96	Peak

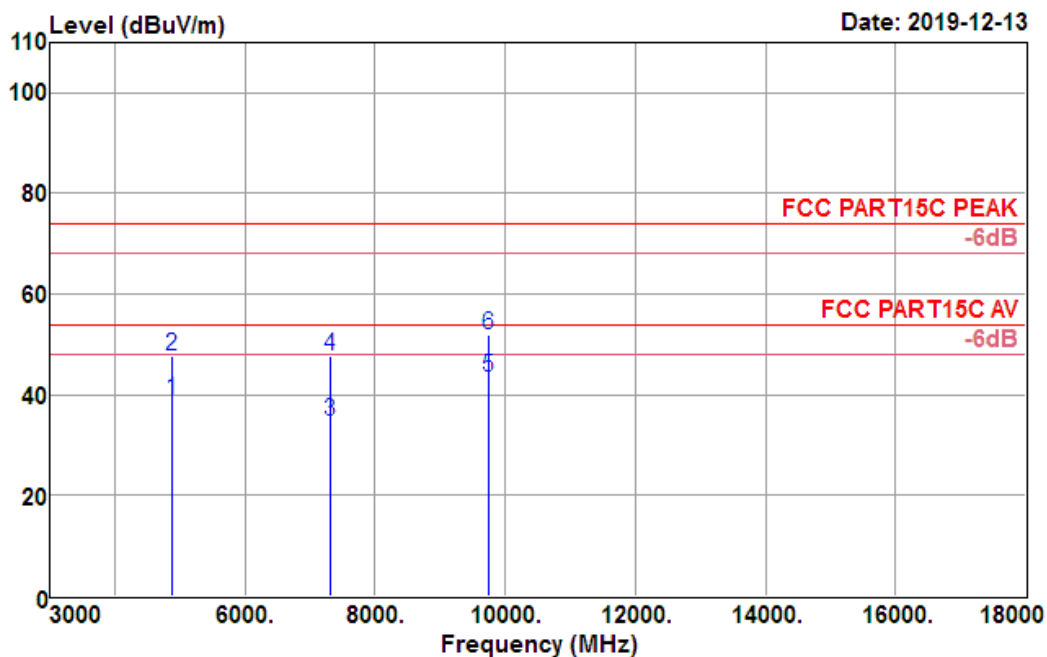
Test Mode :	802.11n HT20 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 183



Data: 184

Date: 2019-12-13

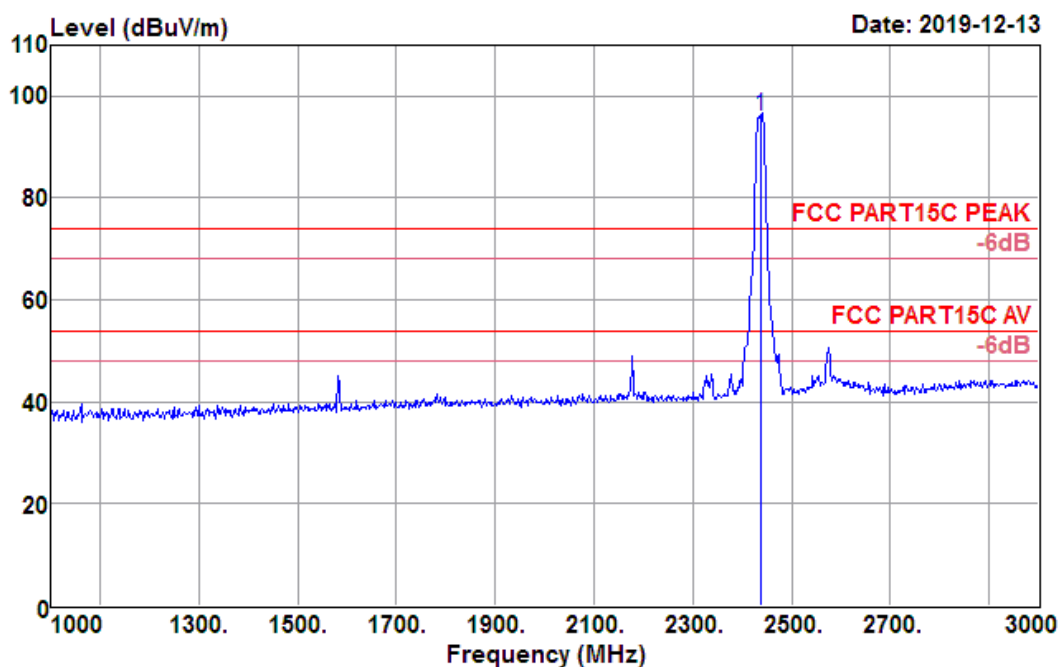


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	36.75	31.40	5.55	34.80	38.90	54.00	-15.10	Average
4874.000	45.71	31.40	5.55	34.80	47.86	74.00	-26.14	Peak
7311.000	27.36	36.12	7.53	36.40	34.61	54.00	-19.39	Average
7311.000	40.40	36.12	7.53	36.40	47.65	74.00	-26.35	Peak
9748.000	31.26	38.05	10.70	36.40	43.61	54.00	-10.39	Average
9748.000	39.74	38.05	10.70	36.40	52.09	74.00	-21.91	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT20 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

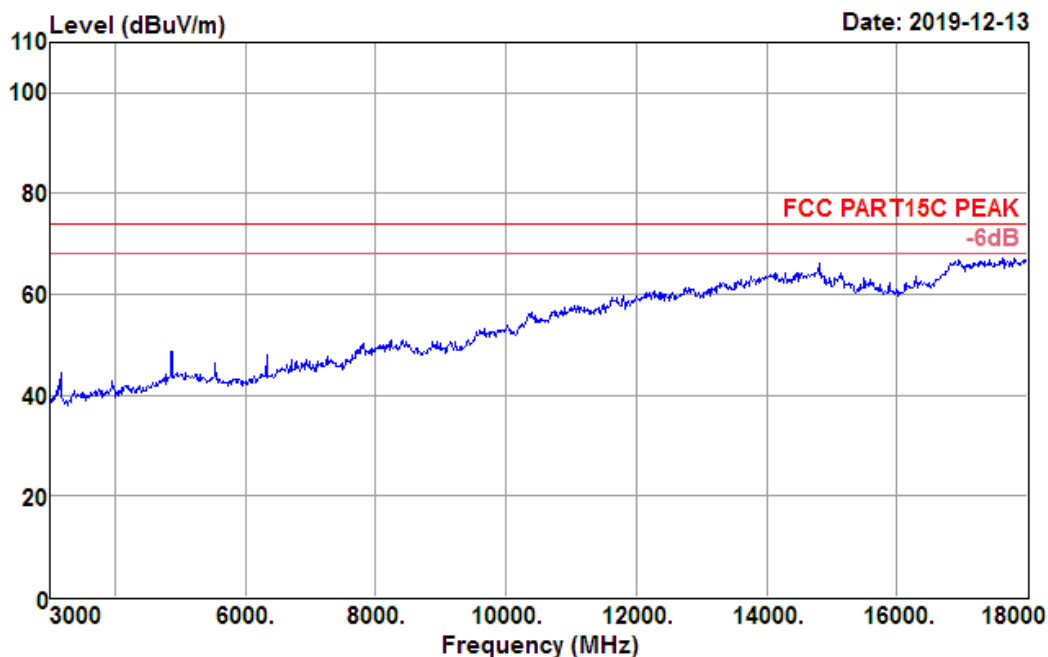
Data: 181



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	101.00	27.24	3.56	35.61	96.19	74.00	22.19	Peak

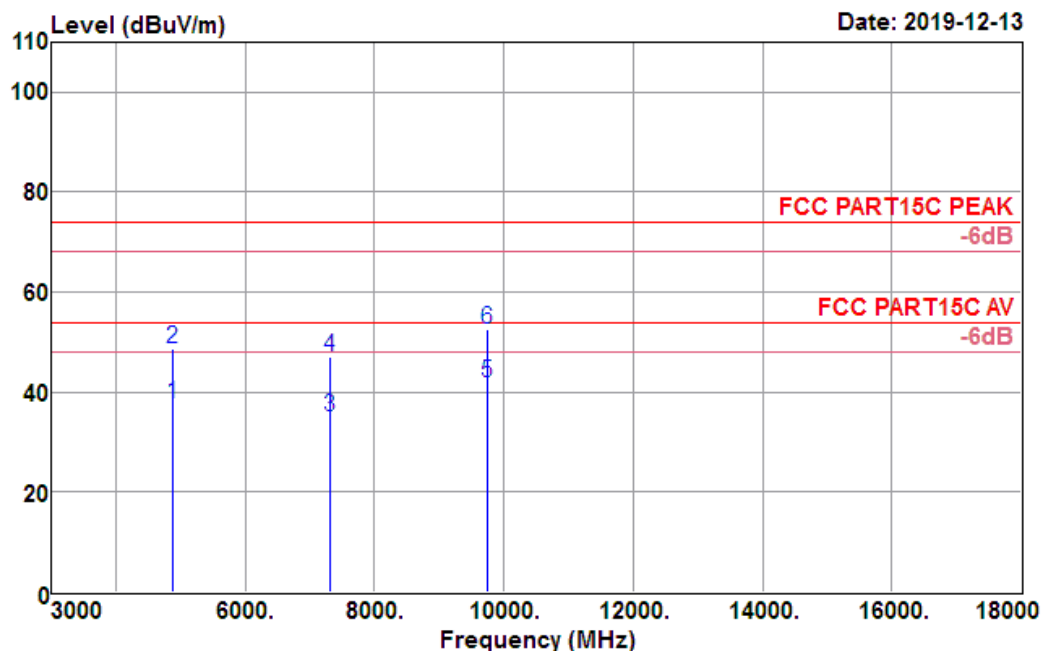
Test Mode :	802.11n HT20 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 185



Data: 186

Date: 2019-12-13

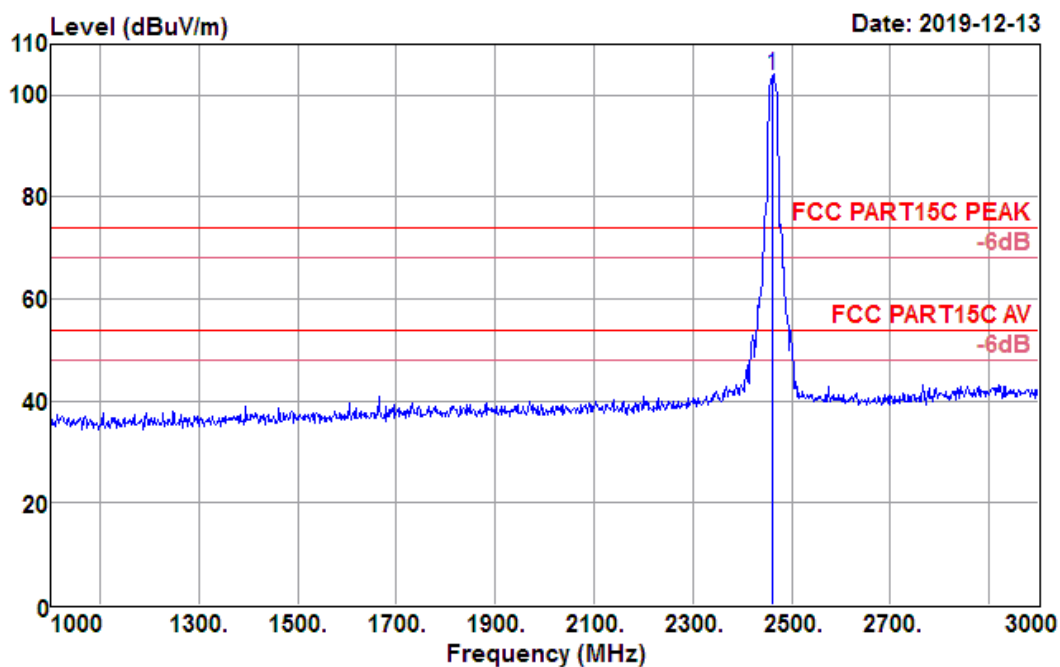


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	35.63	31.40	5.55	34.80	37.78	54.00	-16.22	Average
4874.000	46.64	31.40	5.55	34.80	48.79	74.00	-25.21	Peak
7311.000	27.70	36.12	7.53	36.40	34.95	54.00	-19.05	Average
7311.000	39.86	36.12	7.53	36.40	47.11	74.00	-26.89	Peak
9748.000	29.66	38.05	10.70	36.40	42.01	54.00	-11.99	Average
9748.000	40.35	38.05	10.70	36.40	52.70	74.00	-21.30	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

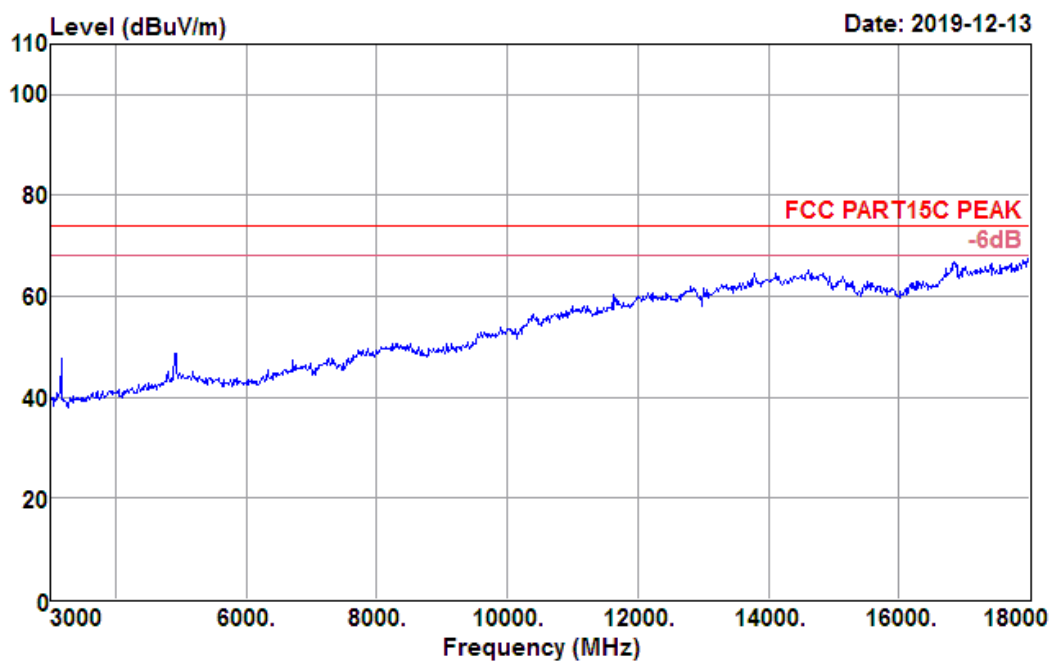
Data: 193



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	108.66	27.30	3.58	35.65	103.89	74.00	29.89	Peak

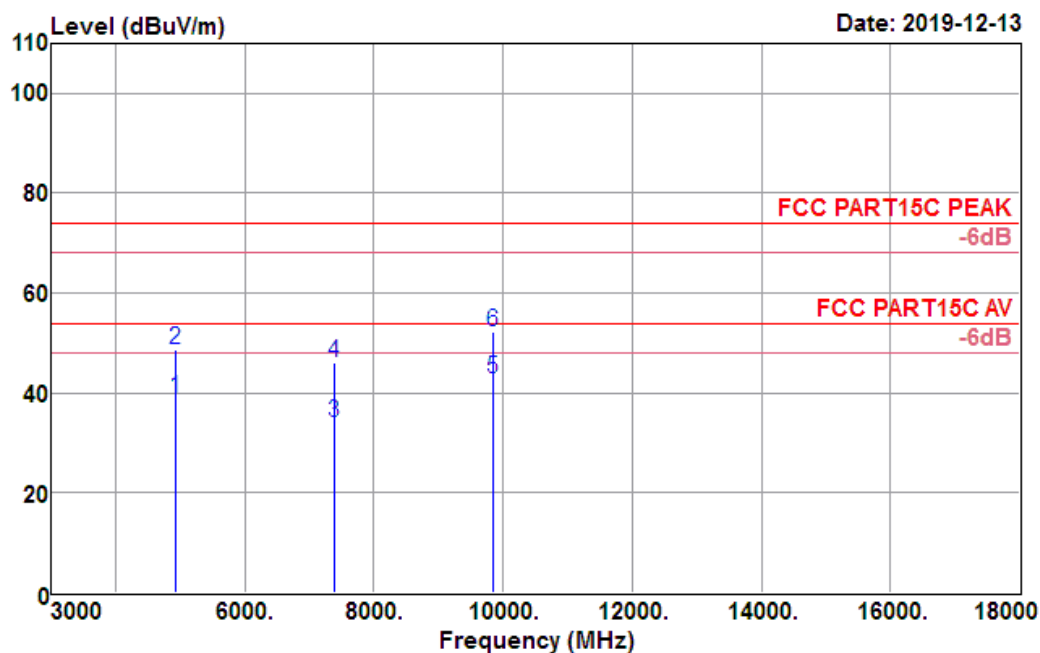
Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 189



Data: 190

Date: 2019-12-13

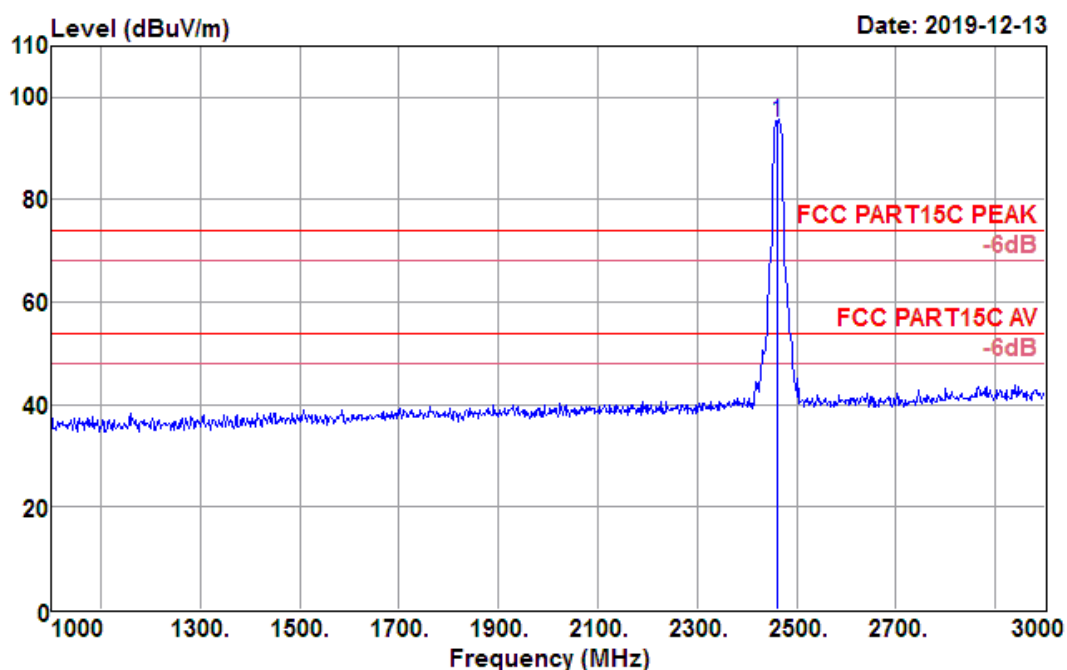


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	36.60	31.52	5.53	34.76	38.89	54.00	-15.11	Average
4924.000	46.51	31.52	5.53	34.76	48.80	74.00	-25.20	Peak
7386.000	26.63	36.29	7.46	36.40	33.98	54.00	-20.02	Average
7386.000	38.85	36.29	7.46	36.40	46.20	74.00	-27.80	Peak
9848.000	30.11	38.23	10.98	36.40	42.92	54.00	-11.08	Average
9848.000	39.34	38.23	10.98	36.40	52.15	74.00	-21.85	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

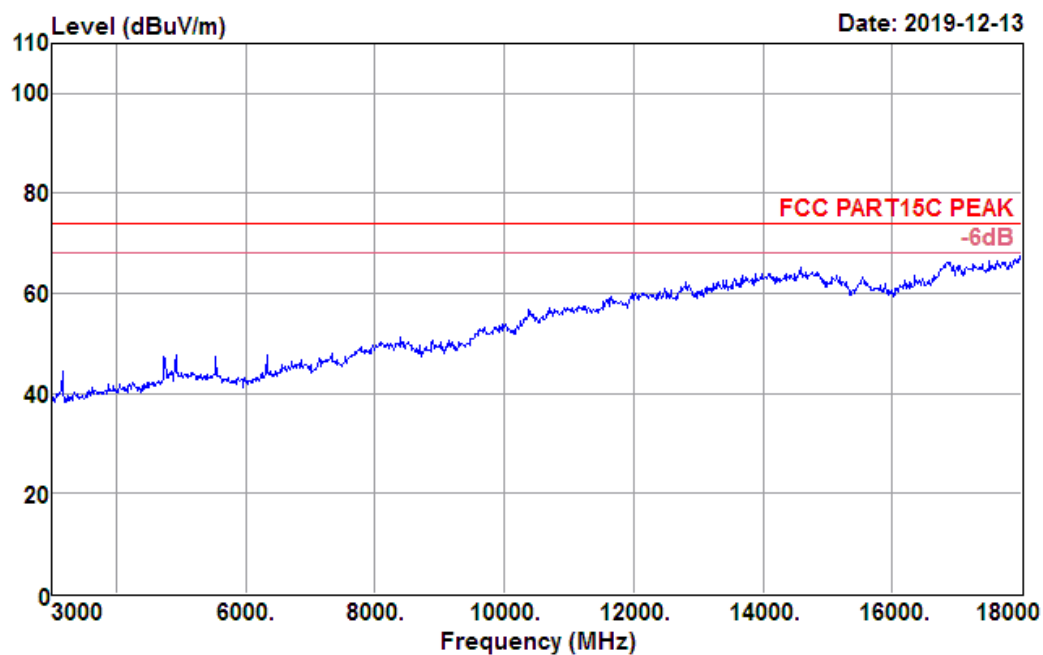
Data: 196



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	99.71	27.30	3.58	35.65	94.94	74.00	20.94	Peak

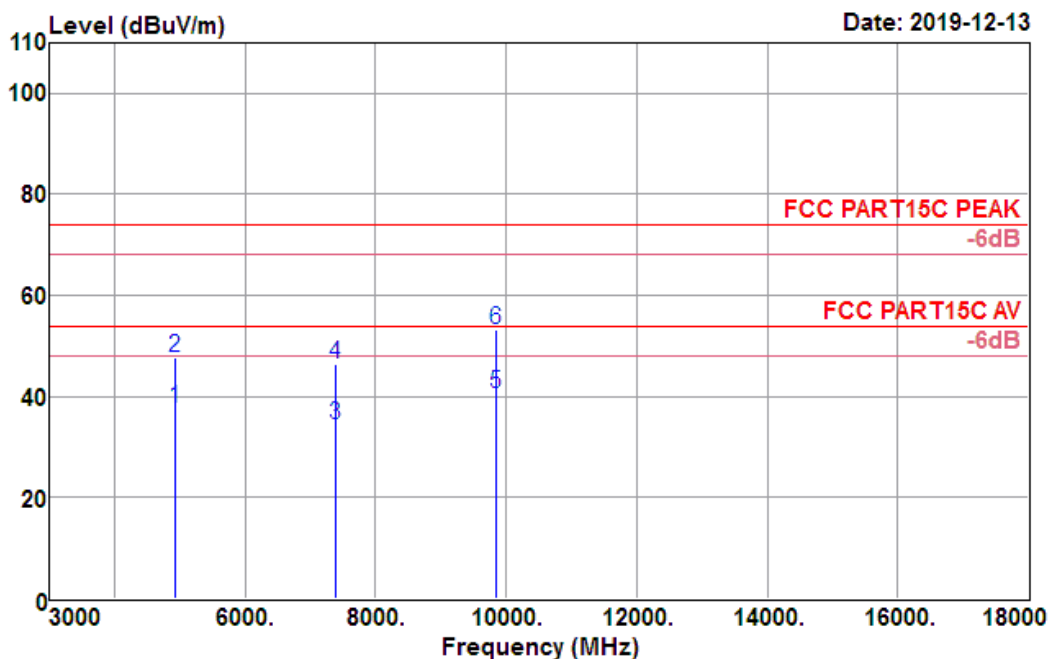
Test Mode :	802.11n HT20 CH11 (2462 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 187



Data: 188

Date: 2019-12-13

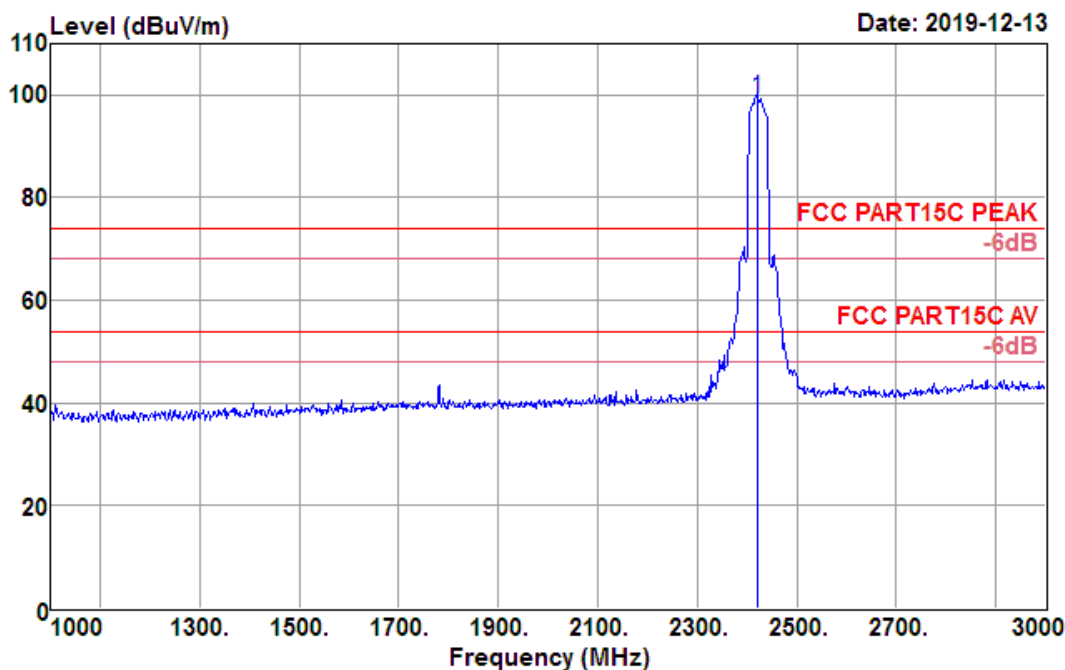


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	35.48	31.52	5.53	34.76	37.77	54.00	-16.23	Average
4924.000	45.29	31.52	5.53	34.76	47.58	74.00	-26.42	Peak
7386.000	27.03	36.29	7.46	36.40	34.38	54.00	-19.62	Average
7386.000	39.12	36.29	7.46	36.40	46.47	74.00	-27.53	Peak
9848.000	27.80	38.23	10.98	36.40	40.61	54.00	-13.39	Average
9848.000	40.49	38.23	10.98	36.40	53.30	74.00	-20.70	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

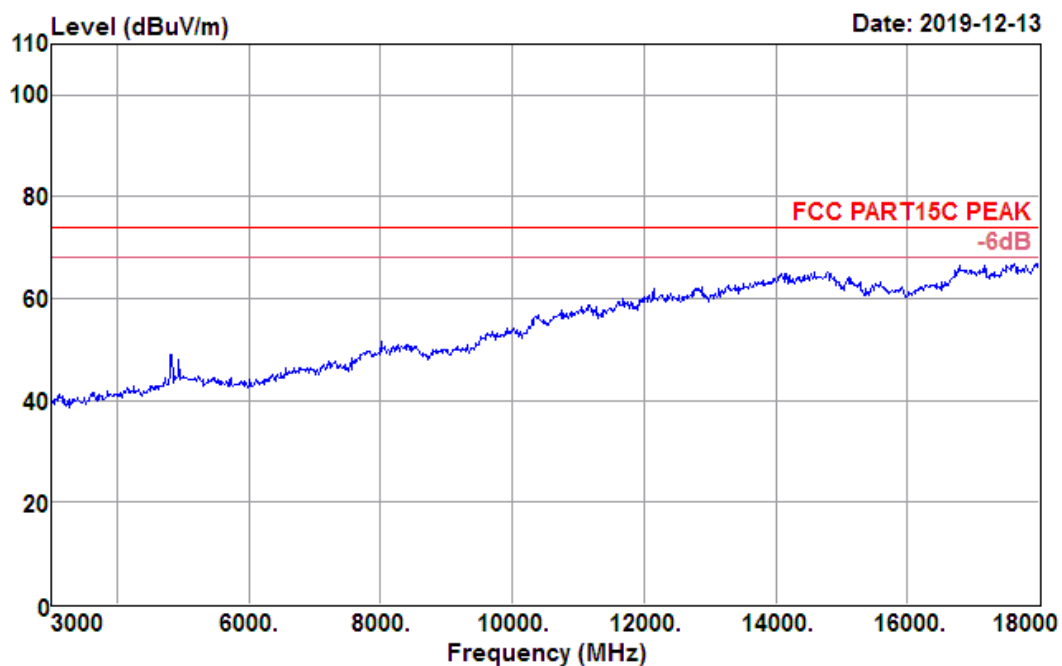
Data: 206



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2422.000	104.29	27.20	3.55	35.59	99.45	74.00	25.45	Peak

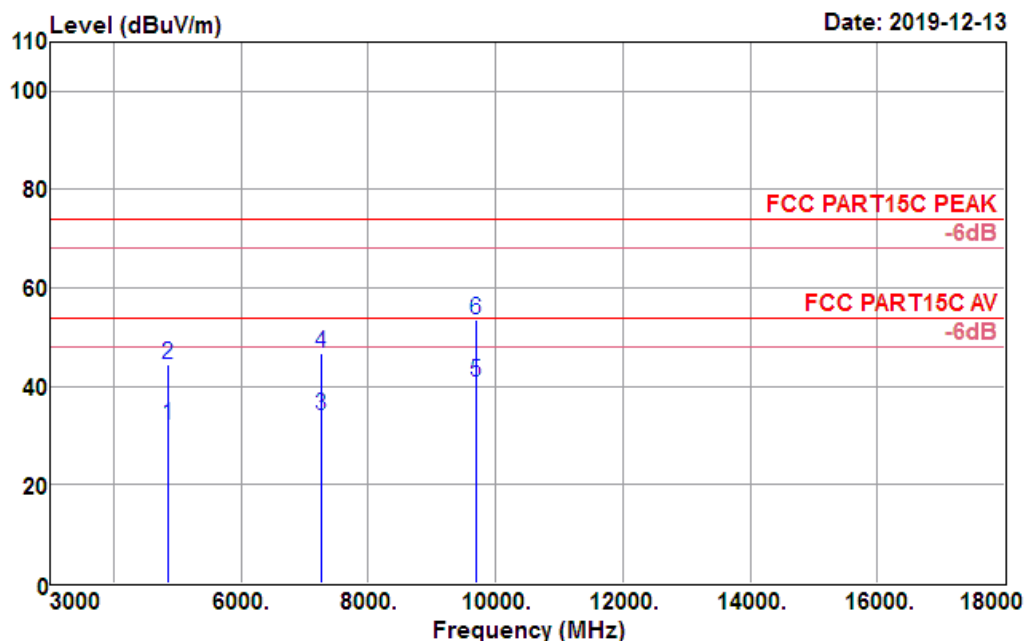
Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 199



Data: 200

Date: 2019-12-13

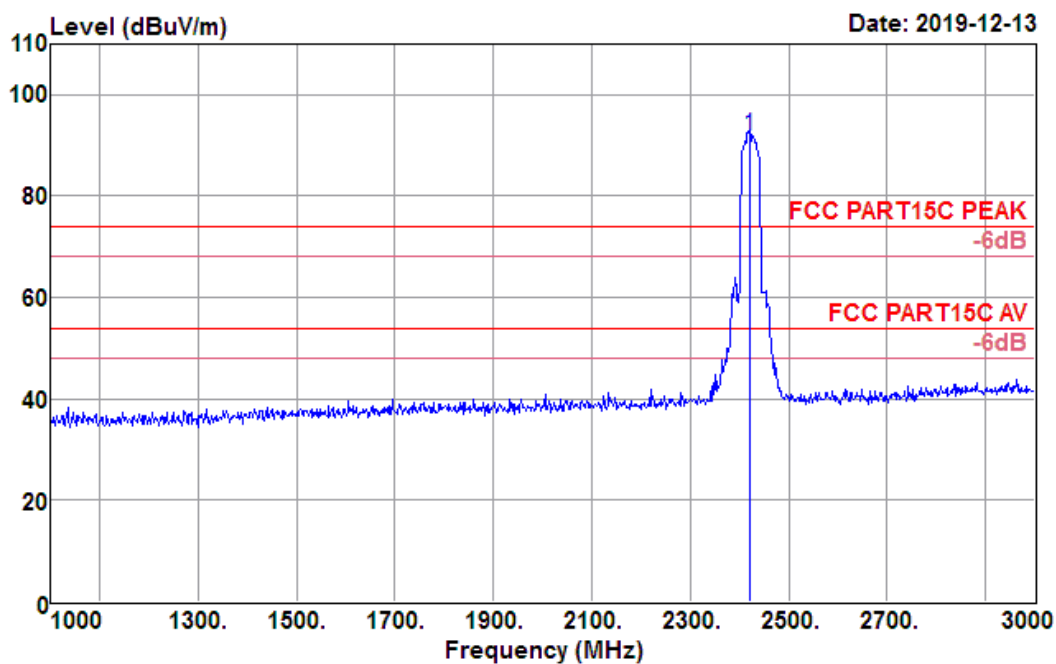


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4844.000	30.05	31.33	5.56	34.82	32.12	54.00	-21.88	Average
4844.000	42.43	31.33	5.56	34.82	44.50	74.00	-29.50	Peak
7266.000	26.83	36.01	7.58	36.40	34.02	54.00	-19.98	Average
7266.000	39.50	36.01	7.58	36.40	46.69	74.00	-27.31	Peak
9688.000	28.95	37.94	10.53	36.40	41.02	54.00	-12.98	Average
9688.000	41.62	37.94	10.53	36.40	53.69	74.00	-20.31	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

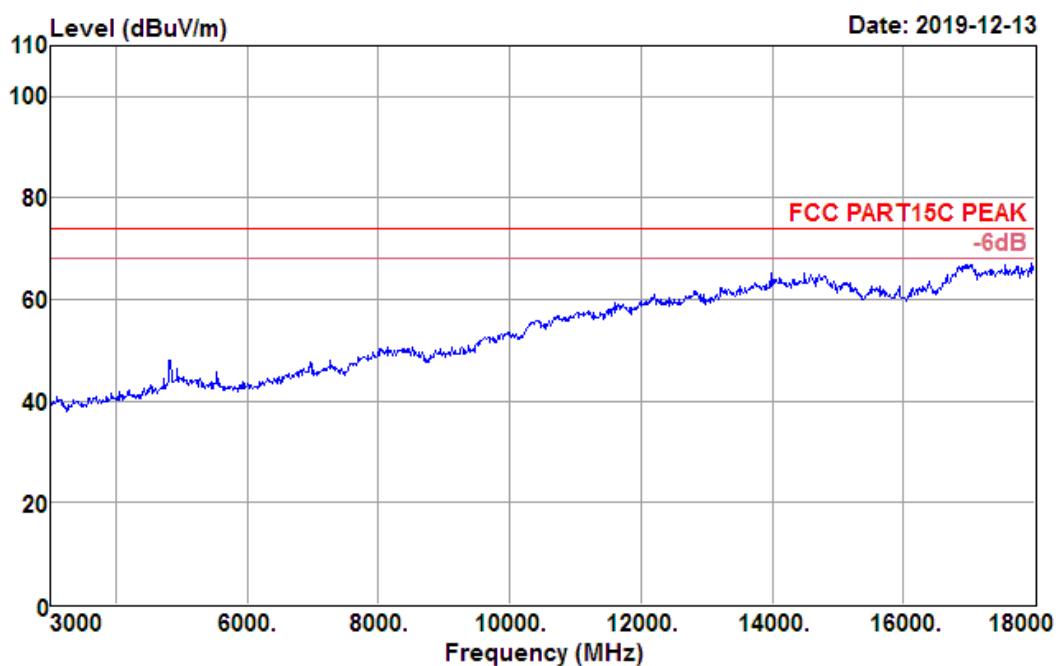
Data: 203



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2422.000	96.65	27.20	3.55	35.59	91.81	74.00	17.81	Peak

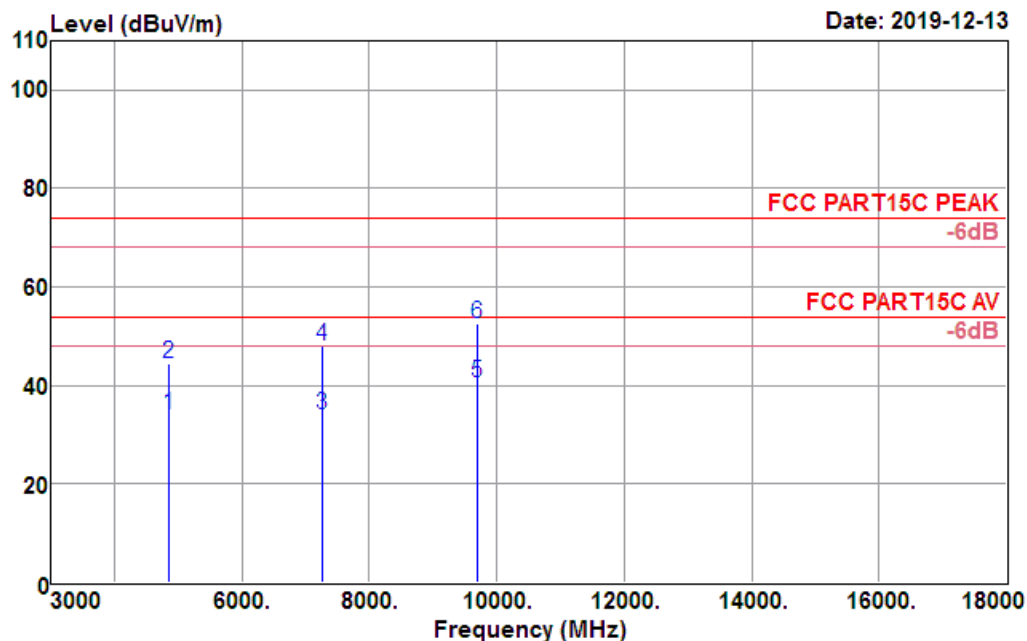
Test Mode :	802.11n HT40 CH03 (2422 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 197



Data: 198

Date: 2019-12-13

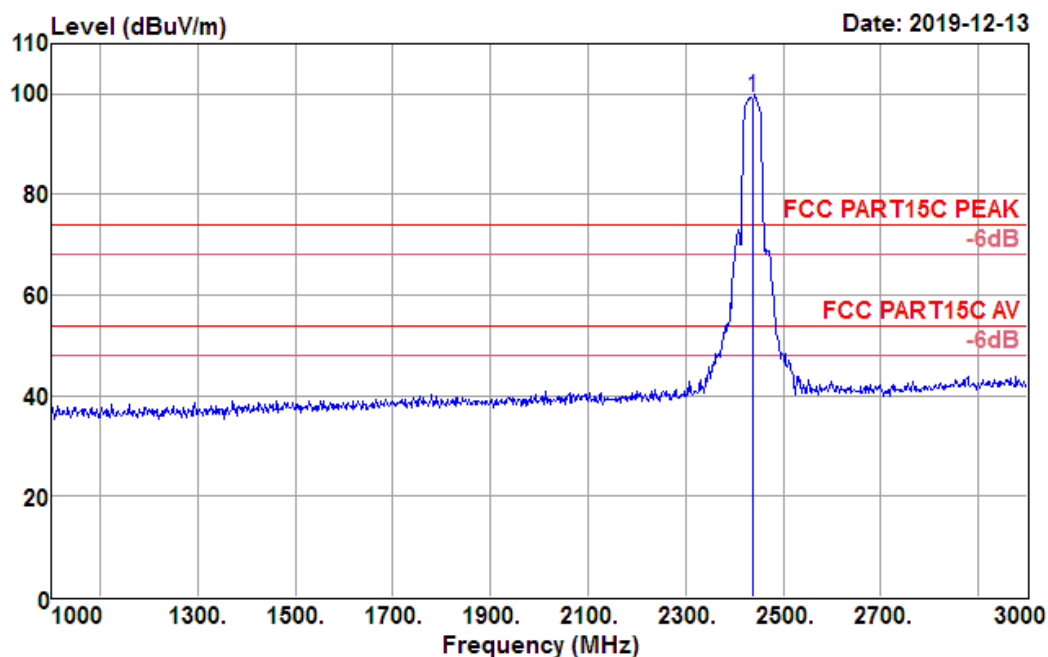


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4844.000	31.88	31.33	5.56	34.82	33.95	54.00	-20.05	Average
4844.000	42.31	31.33	5.56	34.82	44.38	74.00	-29.62	Peak
7266.000	26.78	36.01	7.58	36.40	33.97	54.00	-20.03	Average
7266.000	40.96	36.01	7.58	36.40	48.15	74.00	-25.85	Peak
9688.000	28.43	37.94	10.53	36.40	40.50	54.00	-13.50	Average
9688.000	40.64	37.94	10.53	36.40	52.71	74.00	-21.29	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT40 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

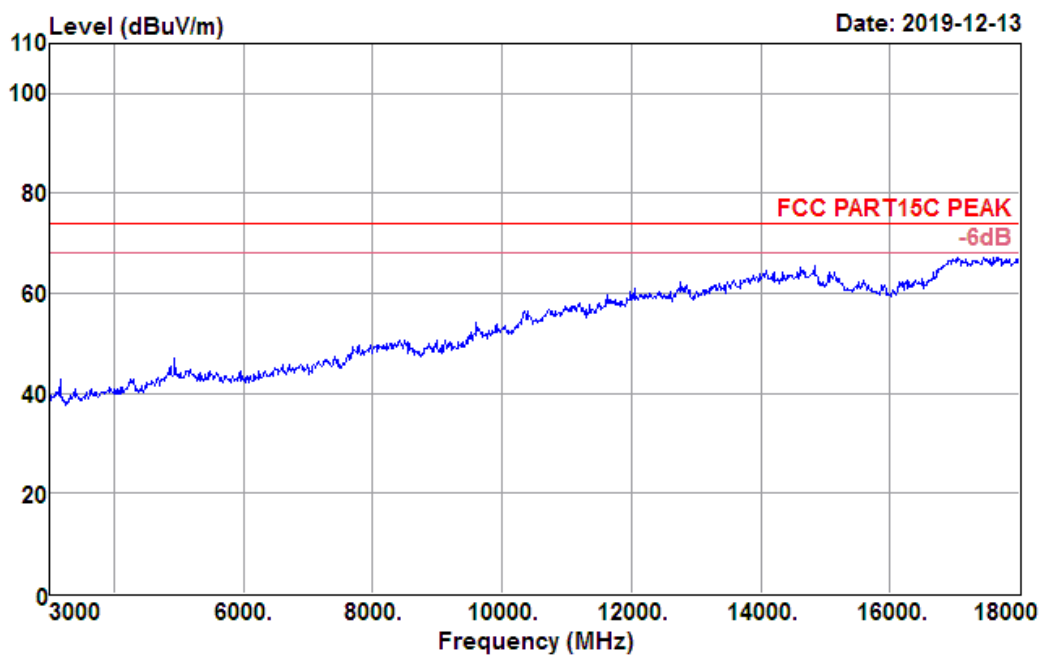
Data: 207



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	104.20	27.24	3.56	35.61	99.39	74.00	25.39	Peak

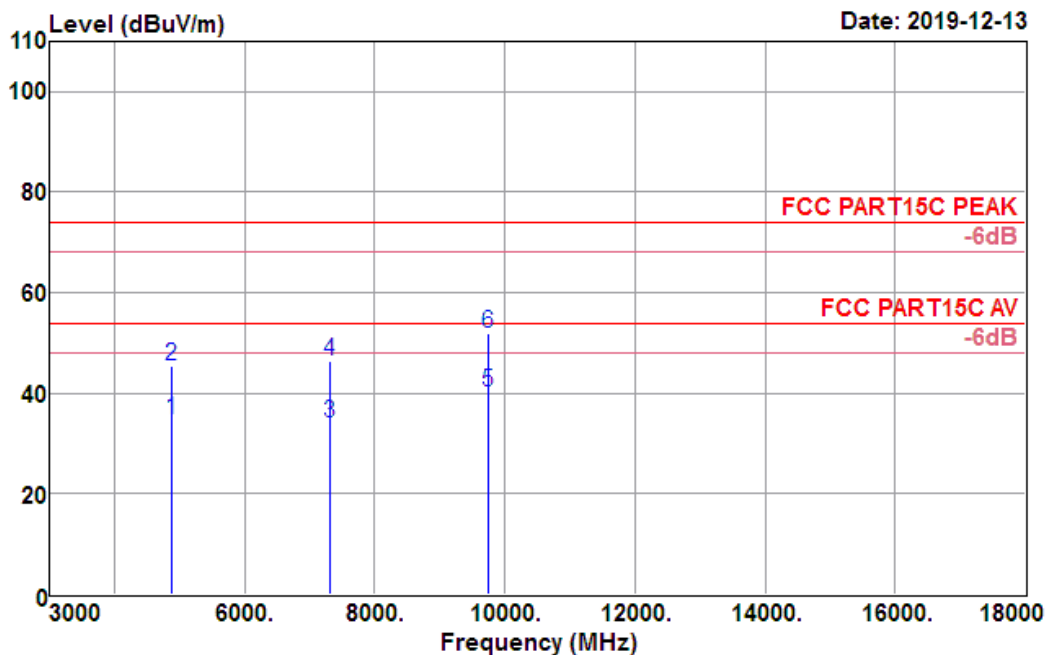
Test Mode :	802.11n HT40 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 211



Data: 212

Date: 2019-12-13

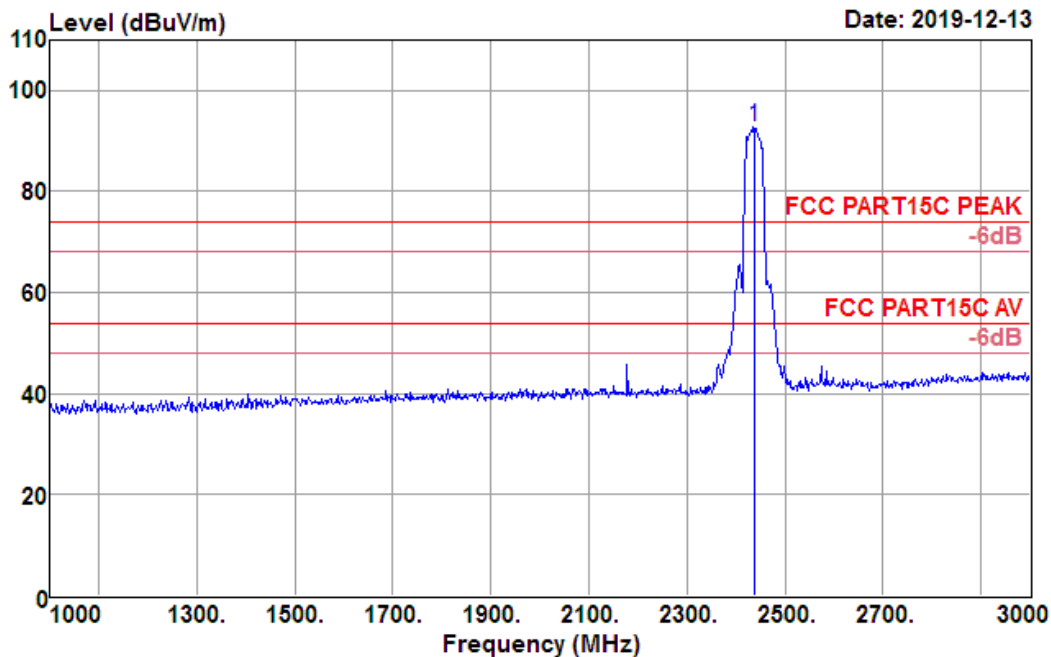


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	32.67	31.40	5.55	34.80	34.82	54.00	-19.18	Average
4874.000	43.44	31.40	5.55	34.80	45.59	74.00	-28.41	Peak
7311.000	26.85	36.12	7.53	36.40	34.10	54.00	-19.90	Average
7311.000	39.10	36.12	7.53	36.40	46.35	74.00	-27.65	Peak
9748.000	27.96	38.05	10.70	36.40	40.31	54.00	-13.69	Average
9748.000	39.55	38.05	10.70	36.40	51.90	74.00	-22.10	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT40 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

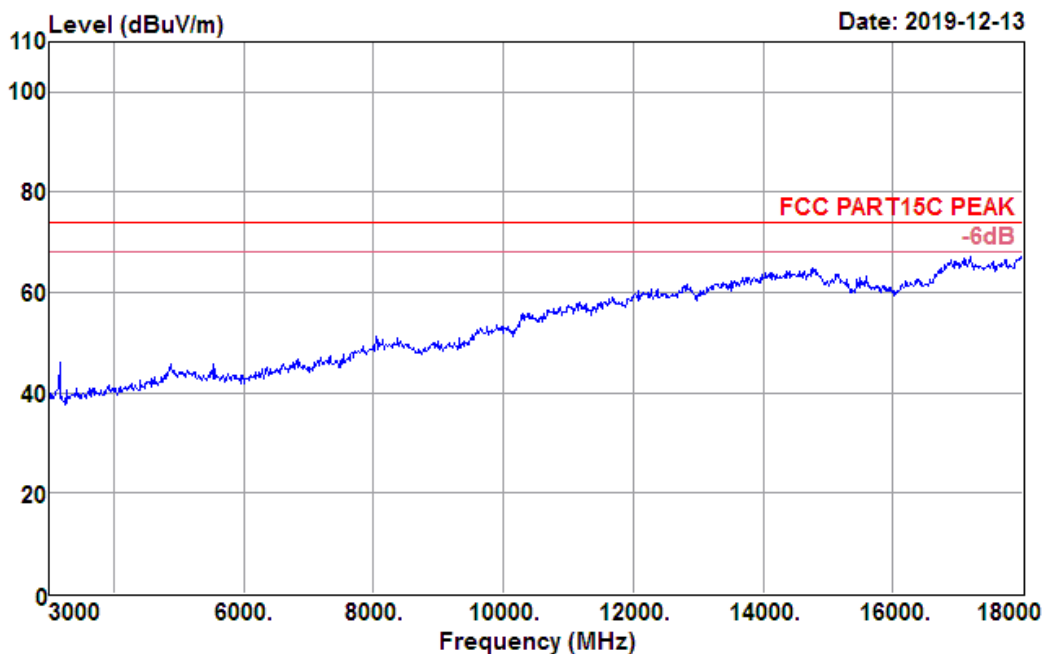
Data: 208



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	97.56	27.24	3.56	35.61	92.75	74.00	18.75	Peak

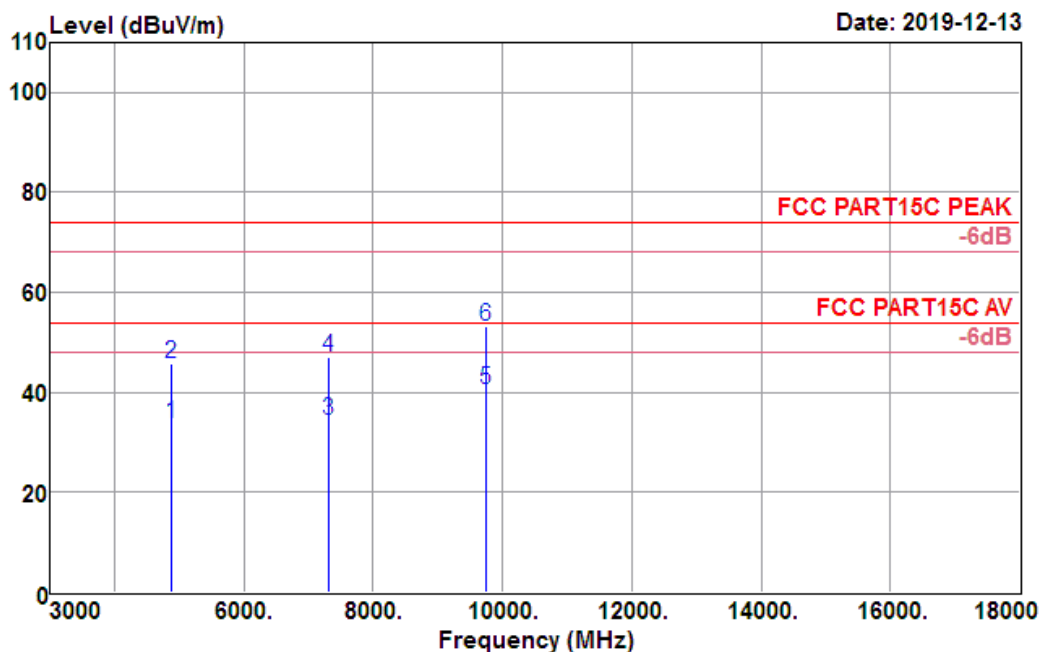
Test Mode :	802.11n HT40 CH06 (2437MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 209



Data: 210

Date: 2019-12-13

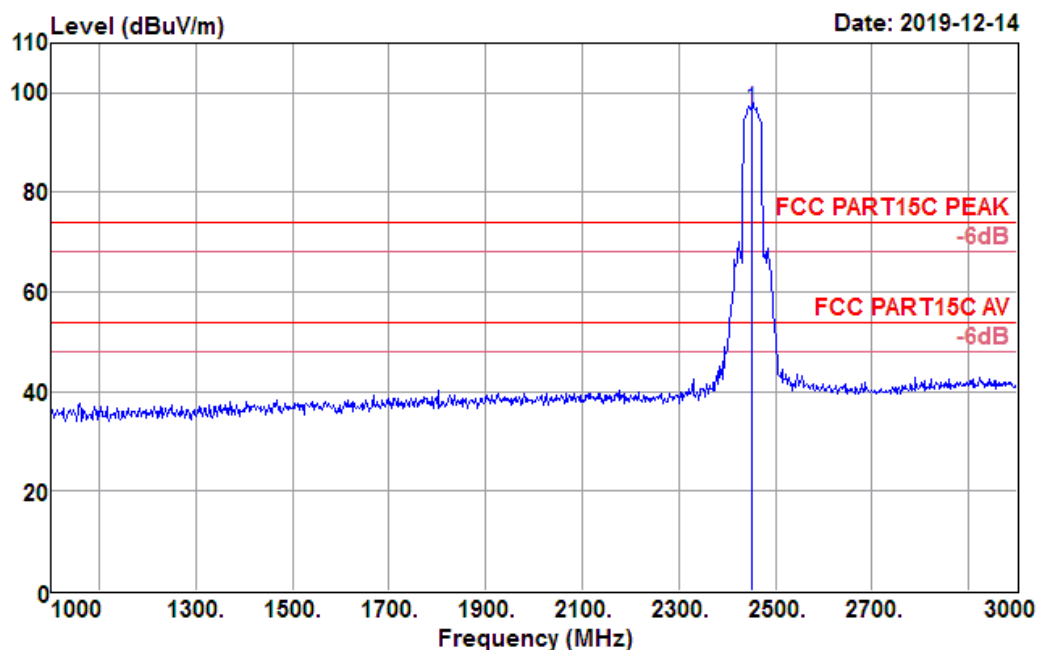


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	31.69	31.40	5.55	34.80	33.84	54.00	-20.16	Average
4874.000	43.55	31.40	5.55	34.80	45.70	74.00	-28.30	Peak
7311.000	27.19	36.12	7.53	36.40	34.44	54.00	-19.56	Average
7311.000	39.66	36.12	7.53	36.40	46.91	74.00	-27.09	Peak
9748.000	28.36	38.05	10.70	36.40	40.71	54.00	-13.29	Average
9748.000	40.97	38.05	10.70	36.40	53.32	74.00	-20.68	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT40 CH09(2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Horizontal

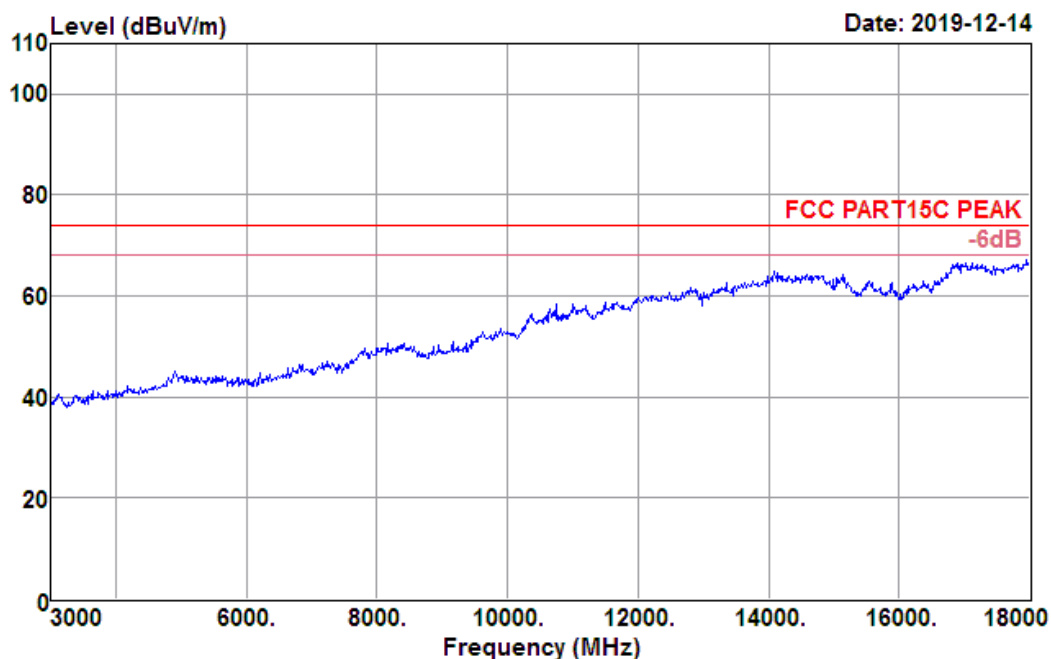
Data: 218



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2452.000	101.43	27.28	3.57	35.63	96.65	74.00	22.65	Peak

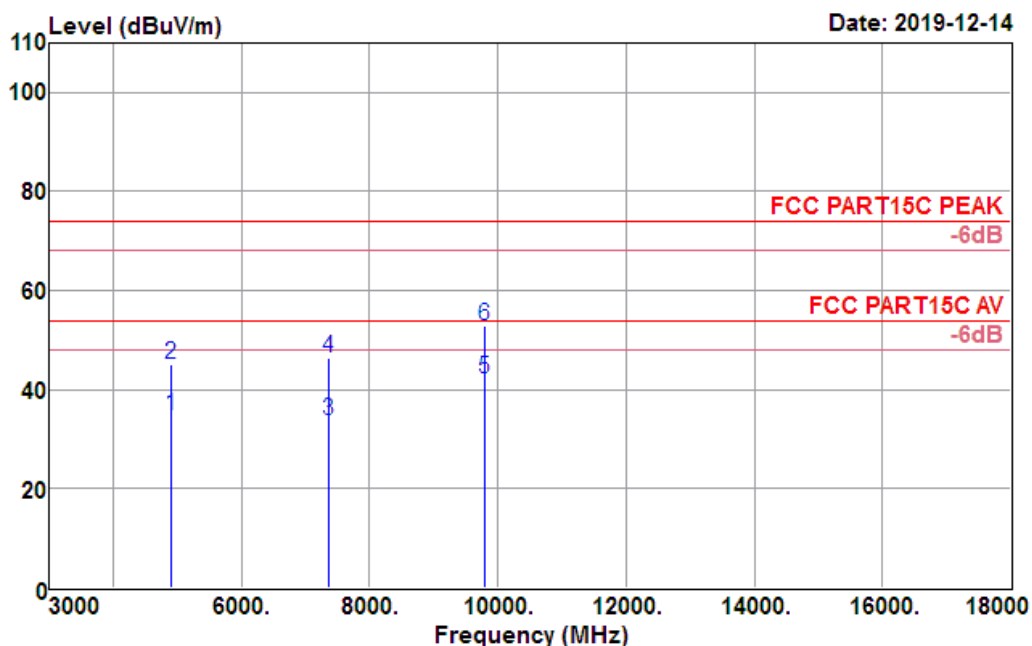
Test Mode :	802.11n HT40 CH09(2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Horizontal

Data: 219



Data: 220

Date: 2019-12-14

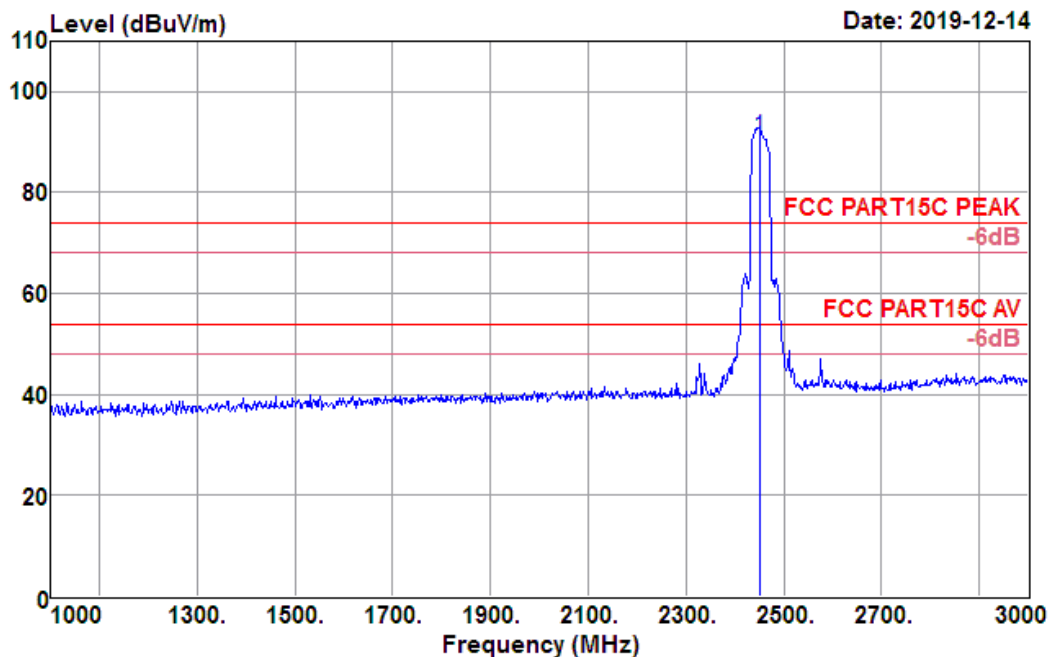


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4904.000	32.35	31.47	5.54	34.78	34.58	54.00	-19.42	Average
4904.000	42.89	31.47	5.54	34.78	45.12	74.00	-28.88	Peak
7356.000	26.50	36.22	7.49	36.40	33.81	54.00	-20.19	Average
7356.000	39.04	36.22	7.49	36.40	46.35	74.00	-27.65	Peak
9808.000	29.63	38.15	10.87	36.40	42.25	54.00	-11.75	Average
9808.000	40.13	38.15	10.87	36.40	52.75	74.00	-21.25	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11n HT40 CH09(2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	1GHz~3GHz	Polarization :	Vertical

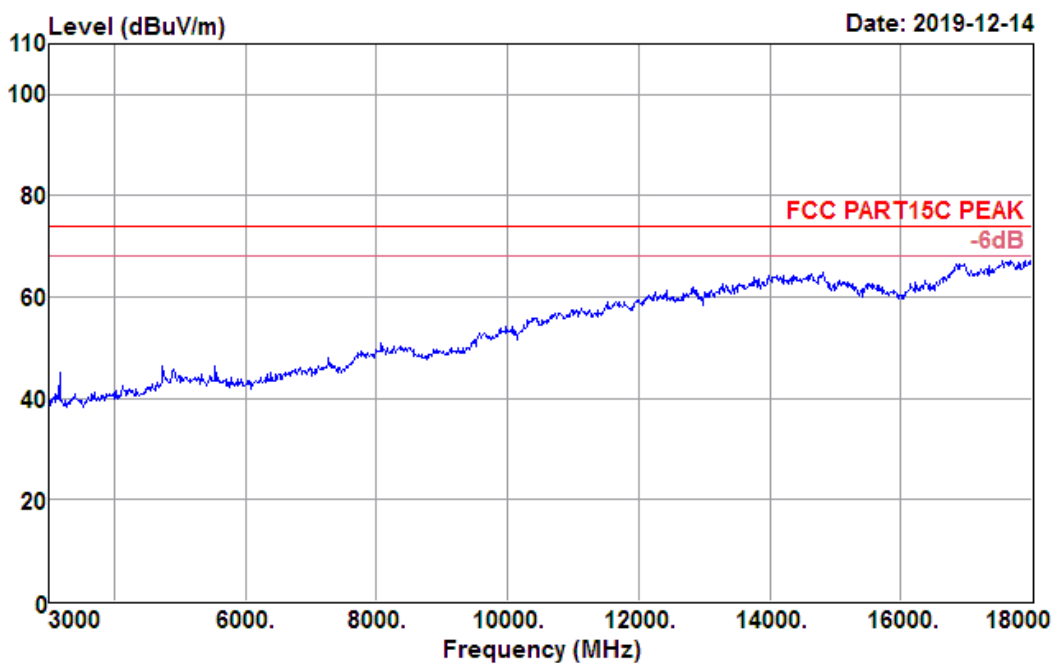
Data: 215



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2452.000	95.76	27.28	3.57	35.63	90.98	74.00	16.98	Peak

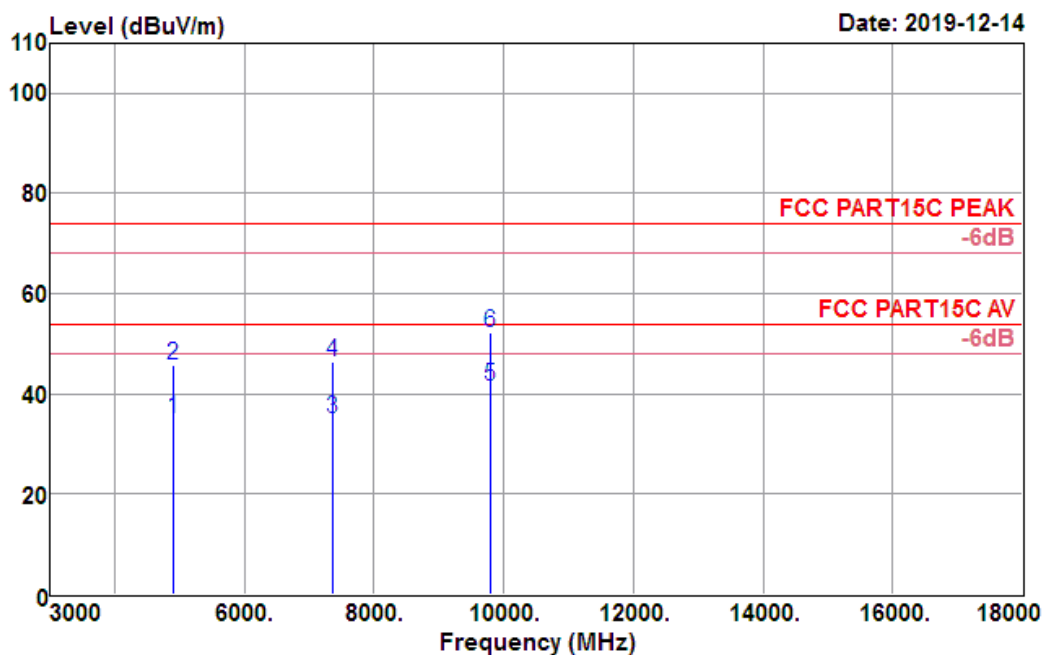
Test Mode :	802.11n HT40 CH09(2452 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	3GHz~18GHz	Polarization :	Vertical

Data: 221



Data: 222

Date: 2019-12-14



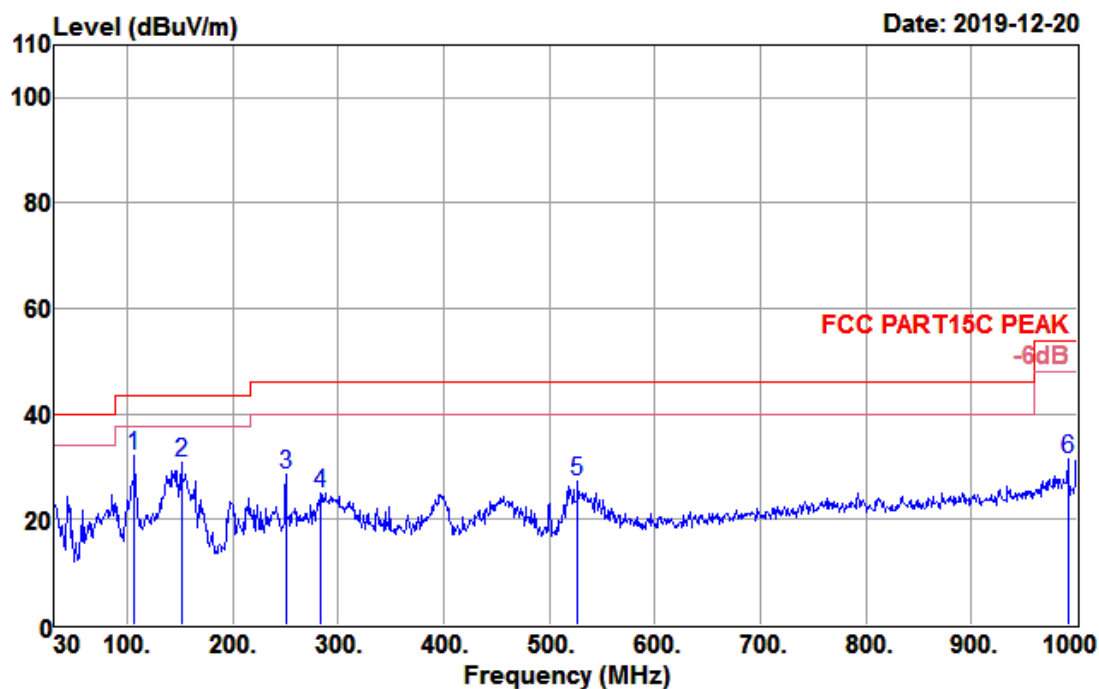
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4904.000	32.95	31.47	5.54	34.78	35.18	54.00	-18.82	Average
4904.000	43.61	31.47	5.54	34.78	45.84	74.00	-28.16	Peak
7356.000	27.82	36.22	7.49	36.40	35.13	54.00	-18.87	Average
7356.000	39.13	36.22	7.49	36.40	46.44	74.00	-27.56	Peak
9808.000	28.94	38.15	10.87	36.40	41.56	54.00	-12.44	Average
9808.000	39.77	38.15	10.87	36.40	52.39	74.00	-21.61	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

4.5.6 Test Result of Radiated Spurious Emission (30MHz ~ 1GHz)

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	30MHz~1GHz	Polarization :	Horizontal

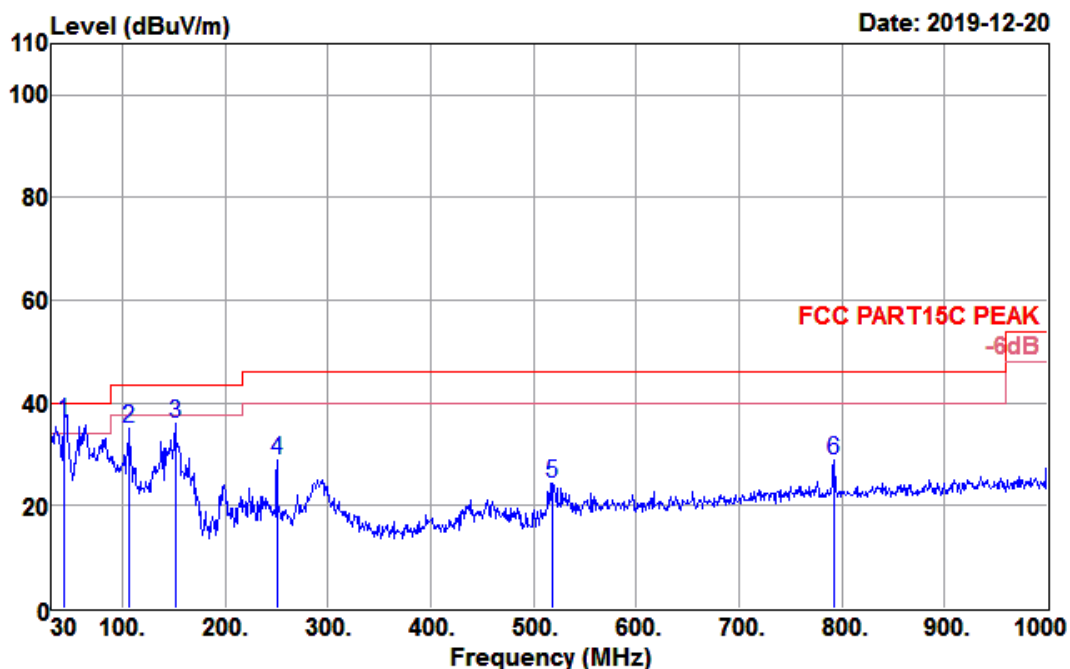
Data: 235



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
106.630	53.01	9.60	1.97	32.60	31.98	43.50	-11.52	Peak
151.250	46.91	14.41	2.13	32.63	30.82	43.50	-12.68	Peak
250.190	45.65	13.10	2.54	32.68	28.61	46.00	-17.39	Peak
282.200	41.24	13.81	2.71	32.69	25.07	46.00	-20.93	Peak
526.640	37.89	18.54	3.71	32.82	27.32	46.00	-18.68	Peak
991.270	33.53	24.40	5.22	31.71	31.44	54.00	-22.56	Peak

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequency Range	30MHz~1GHz	Polarization :	Vertical

Data: 236



Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
43.580	54.75	12.70	1.54	32.53	36.46	40.00	-3.54	QP
106.630	56.10	9.60	1.97	32.60	35.07	43.50	-8.43	Peak
151.250	52.07	14.41	2.13	32.63	35.98	43.50	-7.52	Peak
250.190	45.85	13.10	2.54	32.68	28.81	46.00	-17.19	Peak
517.910	35.32	18.33	3.68	32.85	24.48	46.00	-21.52	Peak
792.420	33.81	22.37	4.64	32.02	28.80	46.00	-17.20	Peak

4.6 AC Conducted Emission Measurement

4.6.1 Limit of AC Conducted Emission

FCC §15.207

IC RSS-GEN 8.8

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

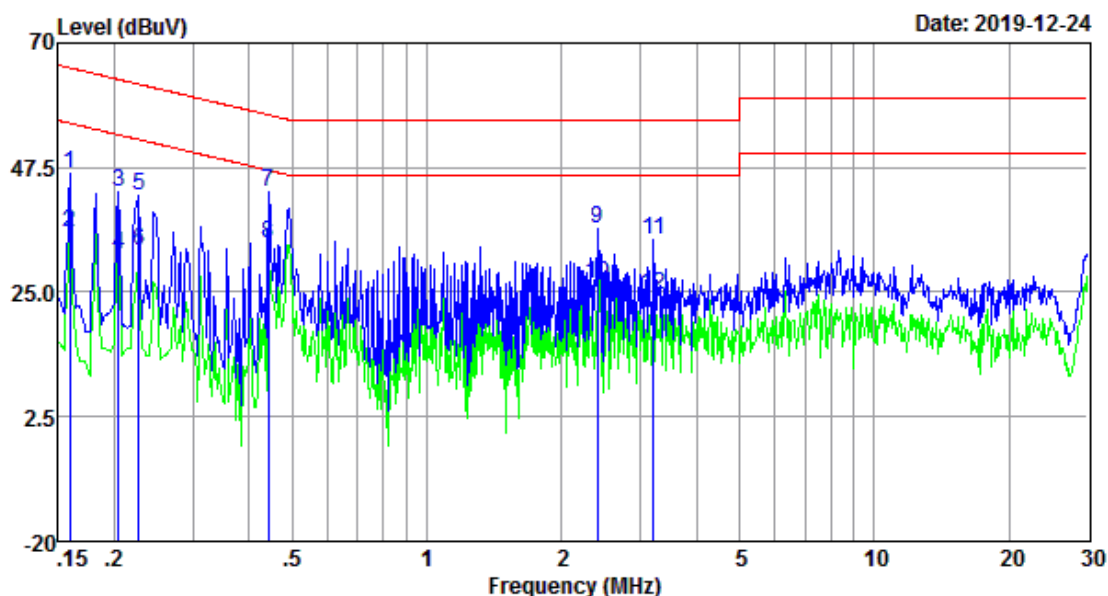
*Decreases with the logarithm of the frequency.

4.6.2 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

4.6.3 Test Result of AC Conducted Emission

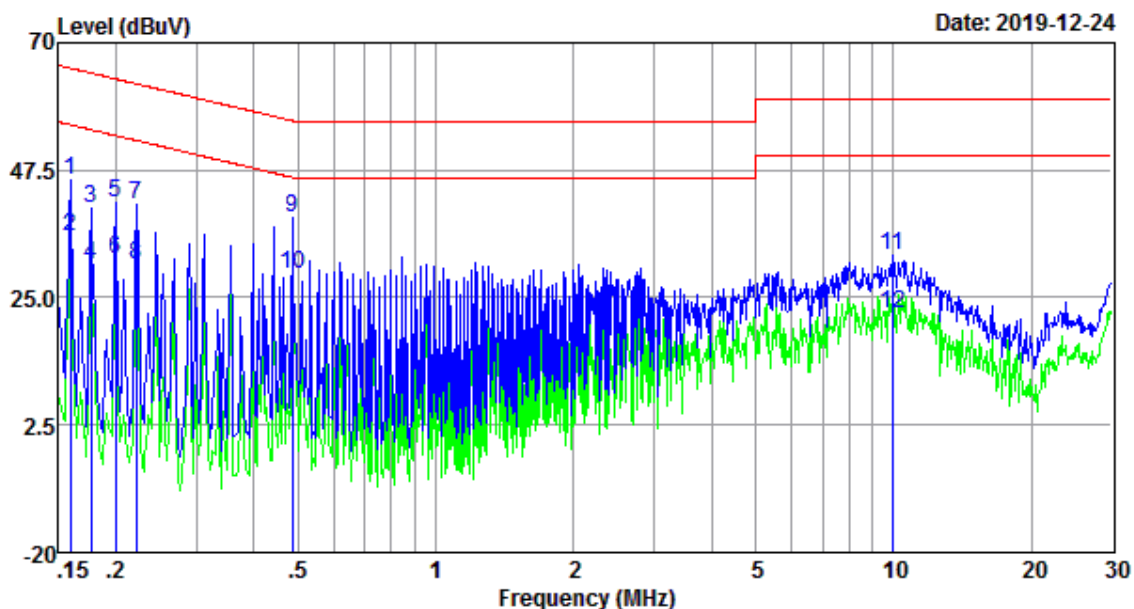
Test Mode :	Mode 1	Temperature :	20°C
Test Engineer :	Jerry.Wang	Relative Humidity :	64%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	2.4G WLAN Link + HDMI + TF Card Upload + USB playing + Ping		



Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	Result level dBuV	Limit level dBuV	Over limit dB	Remark
0.159	36.86	9.63	0.04	46.53	65.52	-18.99	QP
0.159	26.06	9.63	0.04	35.73	55.52	-19.79	Average
0.204	33.36	9.65	0.04	43.05	63.45	-20.40	QP
0.204	22.17	9.65	0.04	31.86	53.45	-21.59	Average
0.227	32.63	9.65	0.04	42.32	62.57	-20.25	QP
0.227	22.78	9.65	0.04	32.47	52.57	-20.10	Average
0.442	33.25	9.71	0.04	43.00	57.02	-14.02	QP
0.442	23.89	9.71	0.04	33.64	47.02	-13.38	Average
2.409	26.66	9.82	0.06	36.54	56.00	-19.46	QP
2.409	16.63	9.82	0.06	26.51	46.00	-19.49	Average
3.207	24.65	9.82	0.07	34.54	56.00	-21.46	QP
3.207	14.74	9.82	0.07	24.63	46.00	-21.37	Average

Result Level= Reading Level + LISN Factor + Cable Loss

Test Mode :	Mode 1	Temperature :	20°C
Test Engineer :	Jerry.Wang	Relative Humidity :	64%
Test Voltage :	120Vac / 60Hz	Phase :	NEUTRAL
Function Type :	2.4G WLAN Link + HDMI + TF Card Upload + USB playing + Ping		



Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	Result level dBuV	Limit level dBuV	Over limit dB	Remark
0.159	36.12	9.59	0.04	45.75	65.52	-19.77	QP
0.159	26.01	9.59	0.04	35.64	55.52	-19.88	Average
0.177	31.16	9.60	0.04	40.80	64.64	-23.84	QP
0.177	21.16	9.60	0.04	30.80	54.64	-23.84	Average
0.200	32.03	9.61	0.04	41.68	63.62	-21.94	QP
0.200	22.00	9.61	0.04	31.65	53.62	-21.97	Average
0.222	31.64	9.61	0.04	41.29	62.74	-21.45	QP
0.222	21.31	9.61	0.04	30.96	52.74	-21.78	Average
0.486	29.58	9.64	0.04	39.26	56.23	-16.97	QP
0.486	19.37	9.64	0.04	29.05	46.23	-17.18	Average
9.966	22.36	9.87	0.10	32.33	60.00	-27.67	QP
9.966	12.05	9.87	0.10	22.02	50.00	-27.98	Average

Result Level= Reading Level + LISN Factor + Cable Loss

4.7 Antenna Requirements

4.7.1 Standard Applicable

According to antenna requirement of §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded..

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 Antenna Connected Construction

An embedded-in antenna design is used.

4.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070788	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY56510025	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY57030005	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY56510018	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY56480002	2019-01-23	2020-01-22	Conducted
Thermal Chamber	Sanmtest	SMC-408-CD	2435	2019-05-09	2020-05-08	Conducted
Base Station	R&S	CMW 270	101231	2019-01-23	2020-01-22	Conducted
Signal Generator (Interferer)	Keysight	N5182B	MY56200384	2019-04-19	2020-04-18	Conducted
Signal Generator (Blocker)	Keysight	N5171B	MY56200661	2019-01-23	2020-01-22	Conducted

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV 40	101433	2019-02-18	2020-02-17	Radiation
Amplifier	Sonoma	310	363917	2019-01-22	2020-01-21	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2019-01-22	2020-01-21	Radiation
Amplifier	Narda	TTA1840-35-HG	2034380	2019-05-15	2020-05-14	Radiation
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	2017-03-03	2020-03-02	Radiation
Broadband Antenna	Schwarzbeck	VULB 9168	9168-757	2017-03-03	2020-03-02	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	1677	2017-03-03	2020-03-02	Radiation
Horn Antenna	COM-POWER	AH-1840	101117	2018-06-20	2021-06-19	Radiation
Test Software	Auidx	E3	6.111221a	N/A	N/A	Radiation
Filter	Micro-Tronics	BRM 50702	G266	N/A	N/A	Radiation

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
LISN	R&S	ENV216	102125	2019-01-22	2020-01-21	Conducted
LISN	R&S	ENV432	101327	2019-01-22	2020-01-21	Conducted
EMI Test Receiver	R&S	ESR3	102143	2019-01-23	2020-01-22	Conducted
EMI Test Software	Audix	E3	N/A	N/A	N/A	Conducted

N/A: No Calibration Required

6 Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.60dB
Radiated emissions	30MHz ~ 1GMHz	5.05dB
	1GHz ~ 18GHz	5.06 dB
	18GHz ~ 40GHz	3.65dB

MEASUREMENT	UNCERTAINTY
Occupied Channel Bandwidth	$\pm 0.1\%$
RF output power, conducted	$\pm 1.2\text{dB}$
Power density, conducted	$\pm 1.2\text{dB}$

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

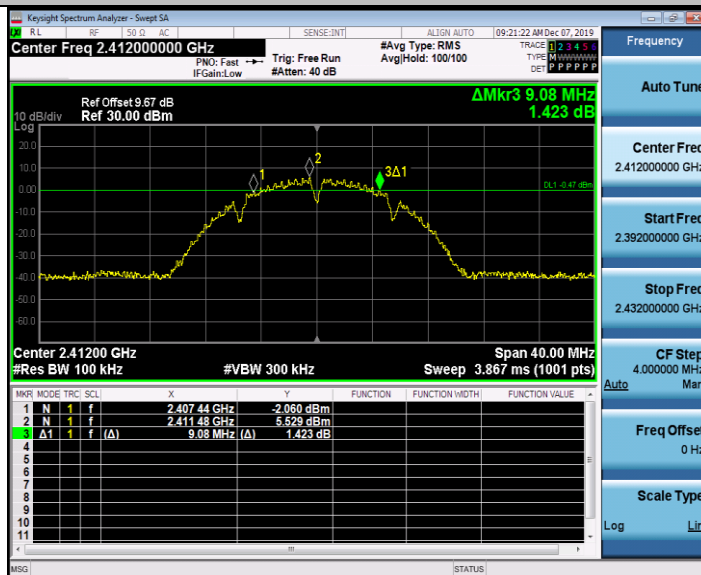
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1		9.080	2407.440	2416.520	≥ 0.5	PASS
			8.640	2432.920	2441.560	≥ 0.5	PASS
			8.680	2457.400	2466.080	≥ 0.5	PASS
11G	Ant1		14.480	2405.080	2419.560	≥ 0.5	PASS
			15.360	2429.240	2444.600	≥ 0.5	PASS
			15.720	2453.800	2469.520	≥ 0.5	PASS
11N20SISO	Ant1		14.560	2404.400	2418.960	≥ 0.5	PASS
			15.160	2429.400	2444.560	≥ 0.5	PASS
			16.600	2453.560	2470.160	≥ 0.5	PASS
11N40SISO	Ant1		35.760	2404.400	2440.160	≥ 0.5	PASS
			34.480	2419.480	2453.960	≥ 0.5	PASS
		2452	35.200	2434.400	2469.600	≥ 0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



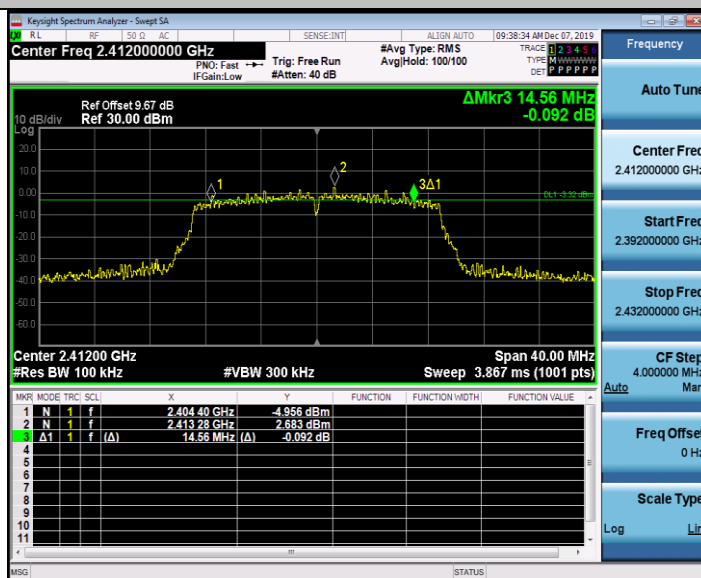
11G_Ant1_2437



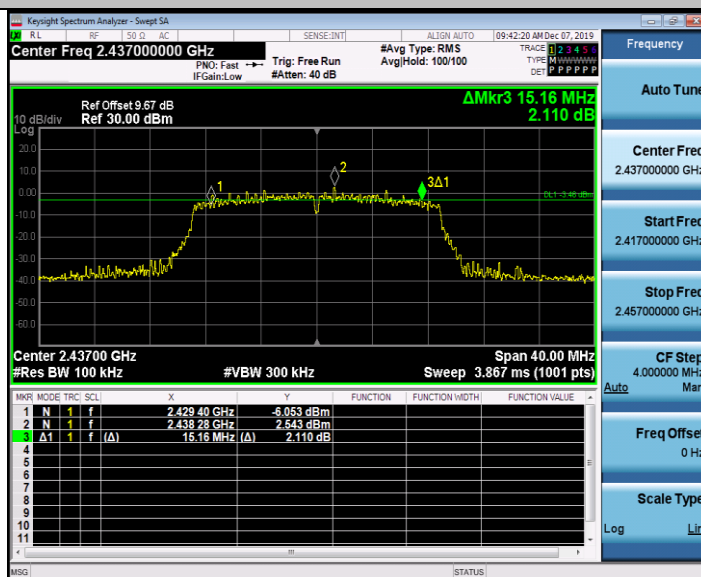
11G_Ant1_2462



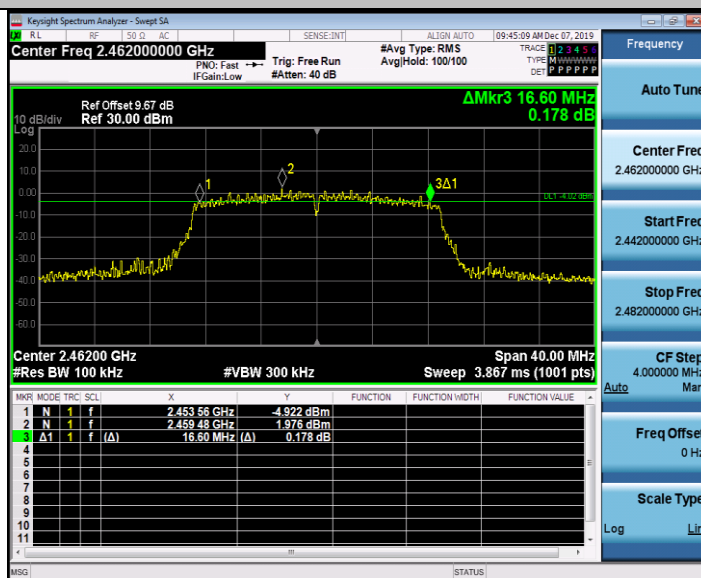
11N20SISO_Ant1_2412



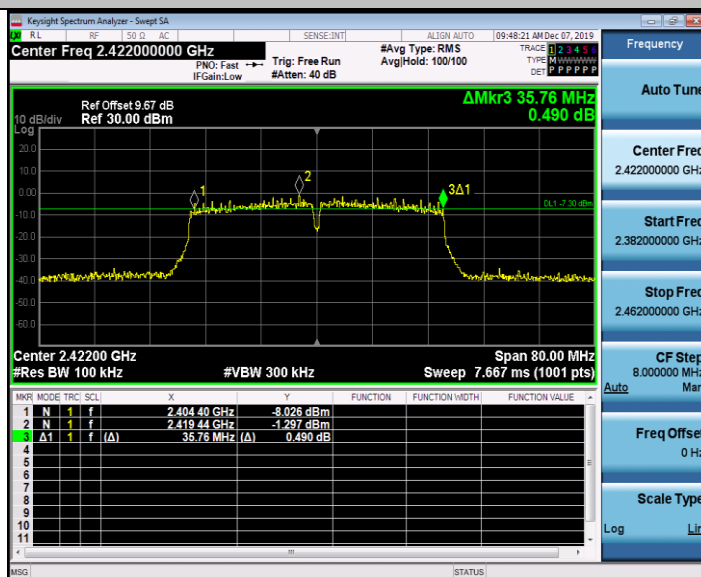
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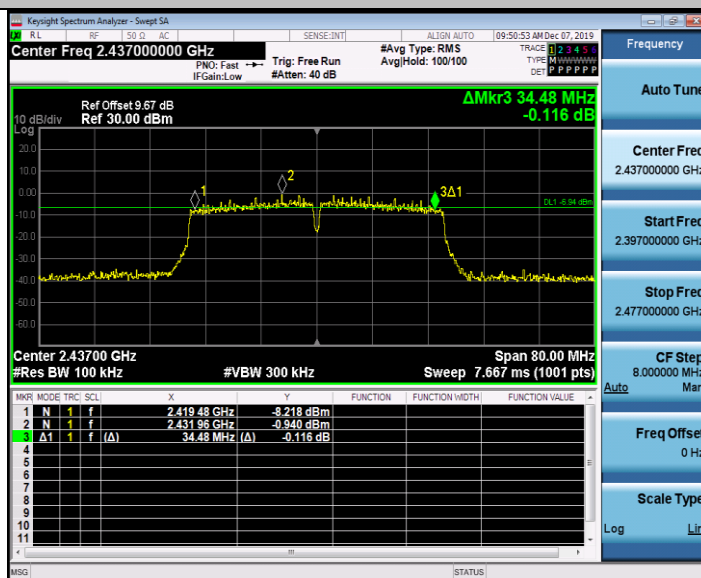
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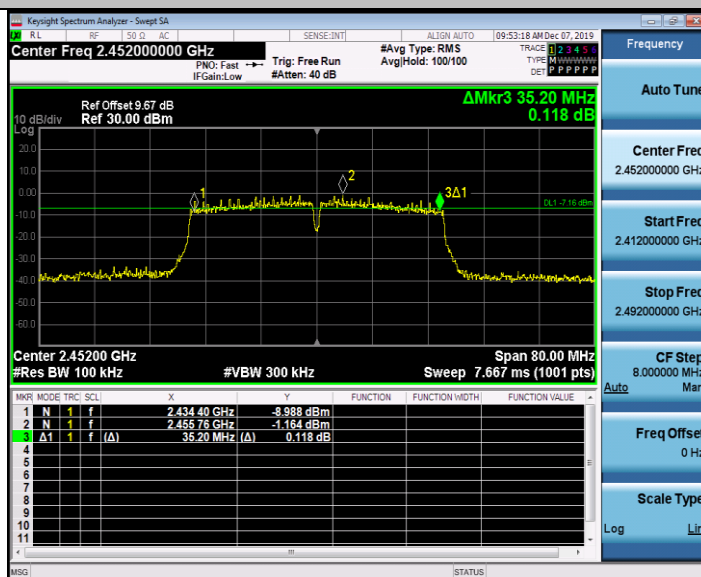
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



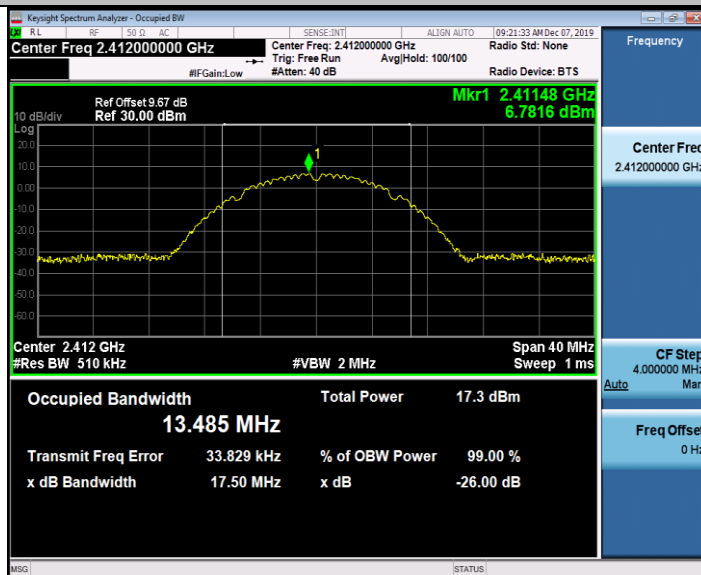
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1		13.485	2405.291	2418.776	---	PASS
			13.557	2430.257	2443.814	---	PASS
			13.570	2455.157	2468.727	---	PASS
11G	Ant1		16.690	2403.667	2420.357	---	PASS
			16.618	2428.690	2445.308	---	PASS
			16.663	2453.655	2470.318	---	PASS
11N20SISO	Ant1		17.661	2403.199	2420.860	---	PASS
			17.645	2428.179	2445.824	---	PASS
			17.632	2453.182	2470.814	---	PASS
11N40SISO	Ant1		36.160	2403.980	2440.140	---	PASS
			36.118	2418.959	2455.077	---	PASS
		2452	36.082	2433.929	2470.011	---	PASS

Test Graphs

11B_Ant1_2412



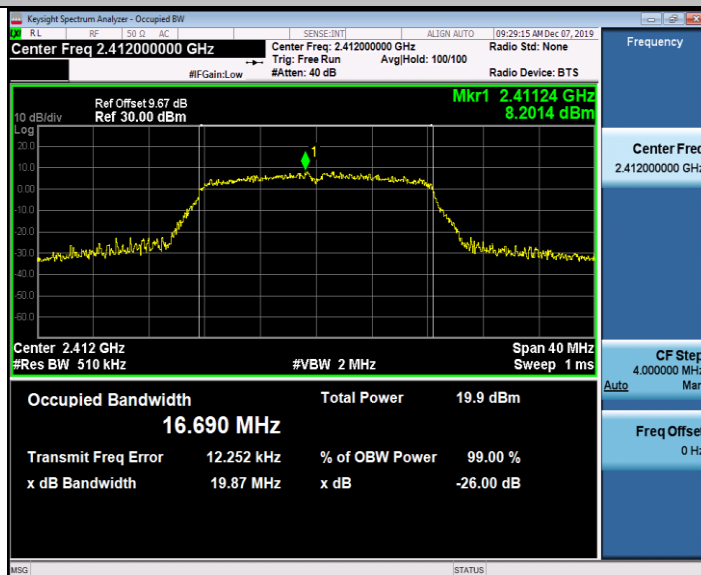
11B_Ant1_2437



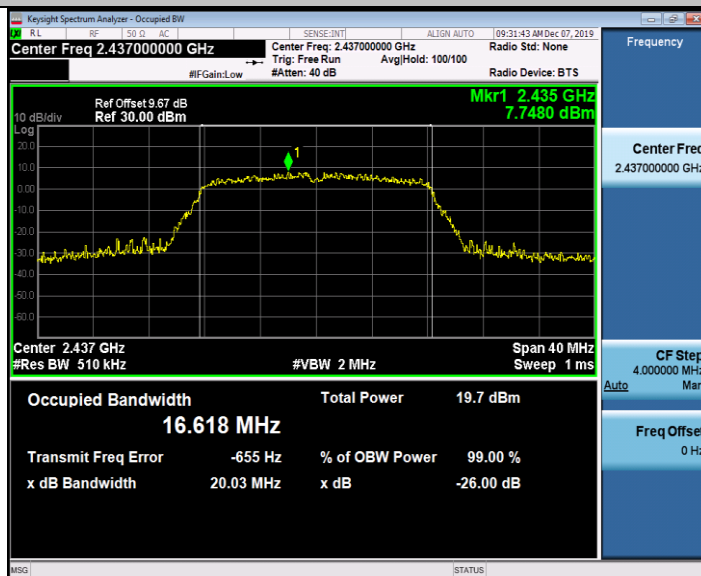
11B_Ant1_2462



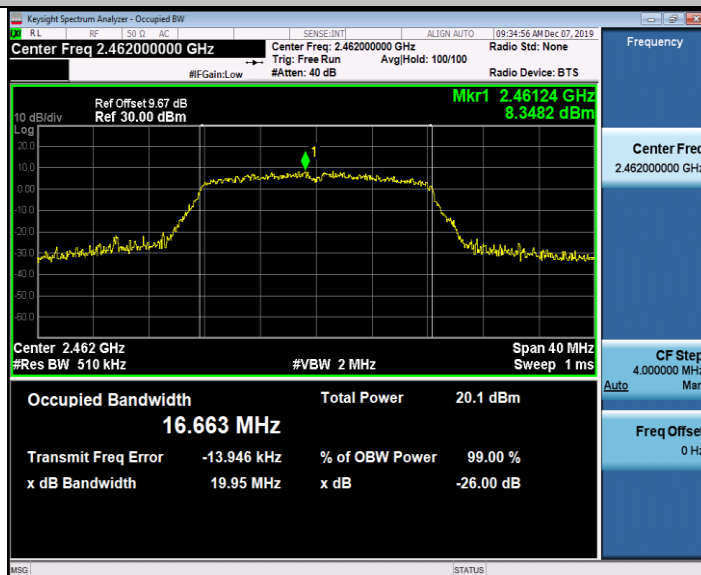
11G_Ant1_2412



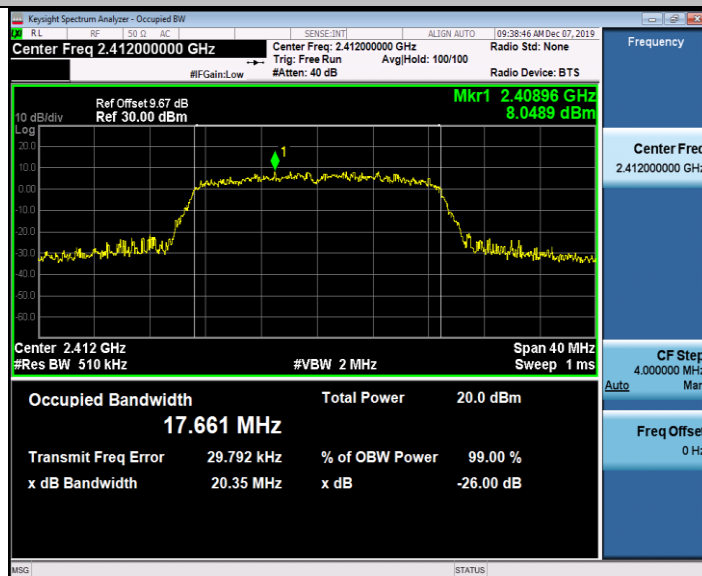
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

