

TEST REPORT

Product Name : UVClean Tabletop 120W
Brand Mark : UVClean
Model No. : PT2120C
FCC ID : 2AXOZ-PT2120C
Report Number : BLA-EMC-202009-A9802
Date of Sample Receipt : 2020/9/28
Date of Test : 2020/9/28 to 2020/11/3
Date of Issue : 2020/11/3
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Prepared for:

Patriot Integrated Medical Services LLC

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Prepared by:

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2020/11/3



REPORT REVISE RECORD

Version No.	Date	Description
00	2020/11/3	Original

BlueAsia

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(1) & 15.247(b)(3)	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

2 GENERAL INFORMATION

Applicant	Patriot Integrated Medical Services LLC
Address	1401 N. University Drive, Suite 305, Coral Springs FL 33071, USA
Manufacturer	SHENZHEN MINGLEDA ELECTRONIC TECHNOLOGY CO., LTD
Address	3rd Floor, No1. Building, Songyuan Innovation Tech Park, 7th of Mudun Rd, Guangming District, Shenzhen, China
Factory	N/A
Address	N/A
Product Name	UVClean Tabletop 120W
Test Model No.	PT2120C

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V1.0
Software Version	V1.0
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Antenna Type:	PCB Antenna
Antenna Gain:	3dBi(Provided by the customer)

4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC3.3V

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in continuously transmitting with modulation mode. (duty cycle > 98%)
Remark: Only the data of the worst mode would be recorded in this report.	

6 MEASUREMENT UNCERTAINTY

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

7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	K610D	N/A	N/A

8 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
IOT Test Centre of BlueAsia
No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

9 TEST INSTRUMENTS LIST

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	5/8/2018	5/7/2021
Spectrum	R&S	FSP40	100817	7/1/2020	6/30/2021
Receiver	R&S	ESR7	101199	4/20/2020	4/19/2021
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	7/14/2018	7/13/2021
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	7/14/2018	7/13/2021
Amplifier	SKET	PA-000318G-45	N/A	7/1/2020	6/30/2021
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2/14/2019	2/13/2022
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	5/8/2018	5/7/2021
Spectrum	R&S	FSP40	100817	7/1/2020	6/30/2021
Receiver	R&S	ESR7	101199	4/20/2020	4/19/2021
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	7/14/2018	7/13/2021
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	7/14/2018	7/13/2021

Amplifier	SKET	PA-000318G-45	N/A	7/1/2020	6/30/2021
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2/14/2019	2/13/2022
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Conducted Spurious Emissions

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/1/2020	6/30/2021
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Conducted Band Edges Measurement

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/1/2020	6/30/2021
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Minimum 6dB Bandwidth

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/1/2020	6/30/2021
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020

Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Power Spectrum Density

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/1/2020	6/30/2021
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

Test Equipment Of Conducted Peak Output Power

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	7/1/2020	6/30/2021
Spectrum	Agilent	N9020A	MY49100060	12/17/2019	12/16/2020
Signal Generator	Agilent	N5182A	MY49060650	12/17/2019	12/16/2020
Signal Generator	Agilent	E8257D	MY44320250	4/20/2020	4/19/2021

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

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	6/10/2018	6/9/2021
Receiver	R&S	ESPI3	101082	4/20/2020	4/19/2021
LISN	R&S	ENV216	3560.6550.15	7/1/2020	6/30/2021
LISN	AT	AT166-2	AKK1806000003	12/17/2019	12/16/2020
EMI software	EZ	EZ-EMC	N/A	N/A	N/A

RADIATED SPURIOUS EMISSIONS

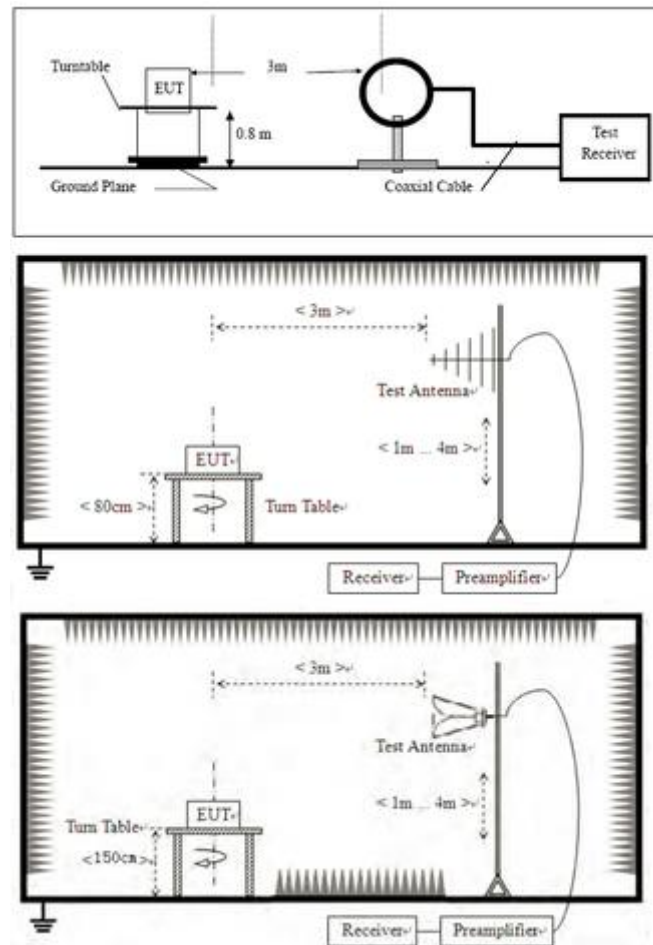
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX mode (SE) below 1G;TX mode (SE) Above 1G
Test Mode (Final Test)	TX mode (SE) below 1G;TX mode (SE) Above 1G
Tester	Eason
Temperature	24℃
Humidity	54%

LIMITS

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

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

BLOCK DIAGRAM OF TEST SETUP



PROCEDURE

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

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

Remark:

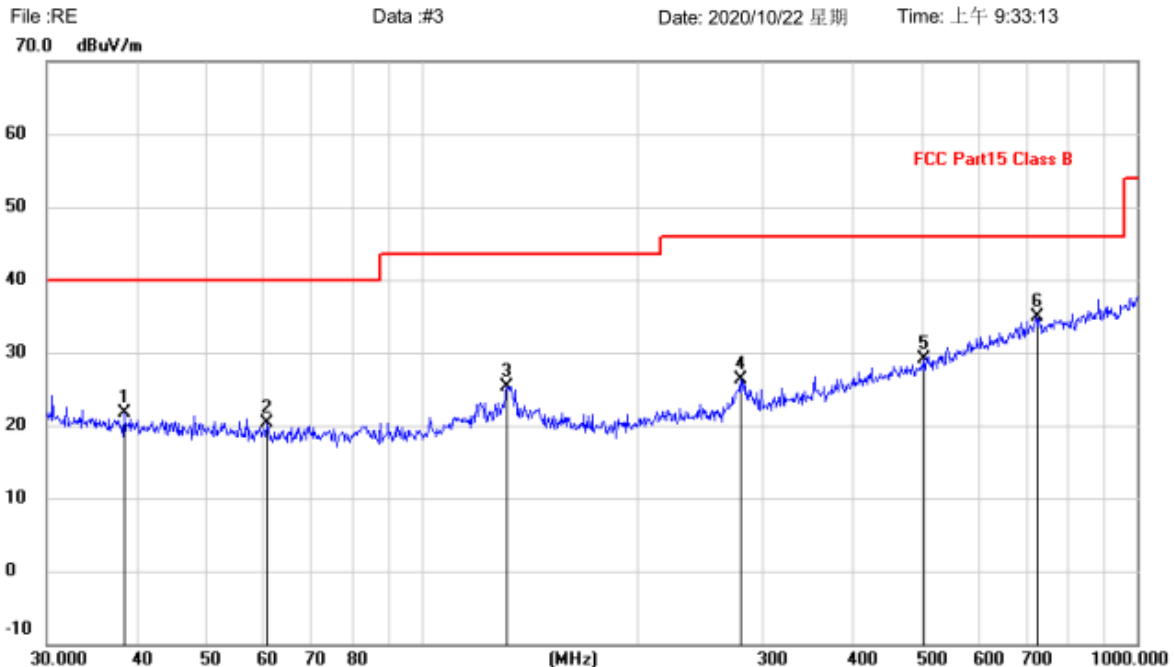
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

TEST DATA

[TestMode: TX mode (SE) below 1G]; [Polarity: Vertical]

Power: AC120V/60Hz

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 Class B Power: Humidity: %

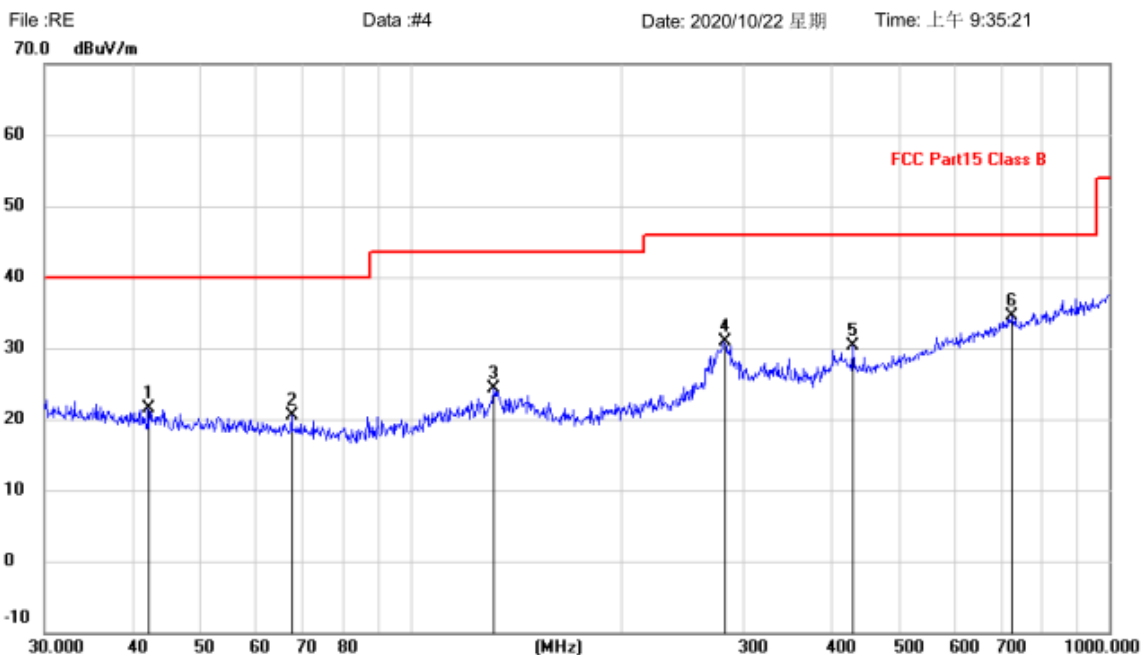
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		38.4809	-2.30	23.96	21.66	40.00	-18.34	QP		
2		60.9176	-2.95	23.18	20.23	40.00	-19.77	QP		
3		131.7577	2.30	23.04	25.34	43.50	-18.16	QP		
4		279.0436	3.10	23.29	26.39	46.00	-19.61	QP		
5		504.7062	-0.10	29.15	29.05	46.00	-16.95	QP		
6	*	721.7259	1.81	33.07	34.88	46.00	-11.12	QP		

Test Result: Pass

[TestMode: TX mode (SE) below 1G]; [Polarity: Horizontal]

Power: AC120V/60Hz

Radiated Emission Measurement



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 Class B

Power:

Humidity: %

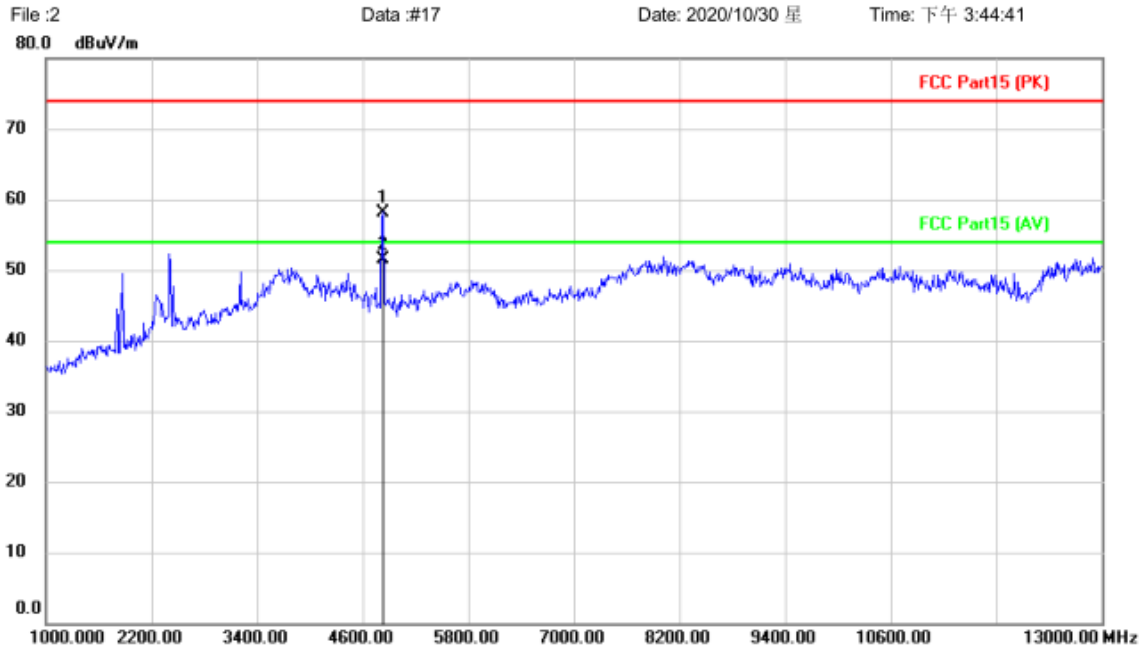
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		42.1542	-2.86	24.33	21.47	40.00	-18.53	QP		
2		67.6751	-1.14	21.69	20.55	40.00	-19.45	QP		
3		131.7577	1.35	23.04	24.39	43.50	-19.11	QP		
4		281.0075	7.54	23.32	30.86	46.00	-15.14	QP		
5		429.5228	2.63	27.67	30.30	46.00	-15.70	QP		
6	*	726.8052	1.28	33.15	34.43	46.00	-11.57	QP		

Test Result: Pass

[Test Mode: 802.11b]; [Above 1GHz]

Test channel:lowest

Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature: Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		4828.000	62.90	-4.70	58.20	74.00	-15.80	peak		
2	*	4828.000	56.16	-4.70	51.46	54.00	-2.54	AVG		

Radiated Emission Measurement

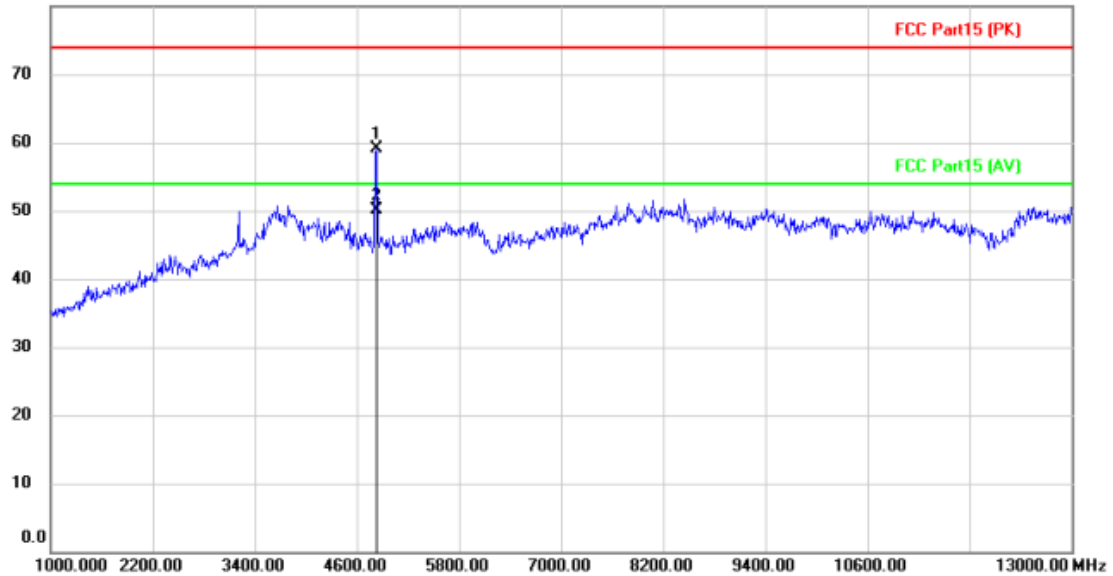
File :2

Data :#18

Date: 2020/10/30 星

Time: 下午 3:48:28

80.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

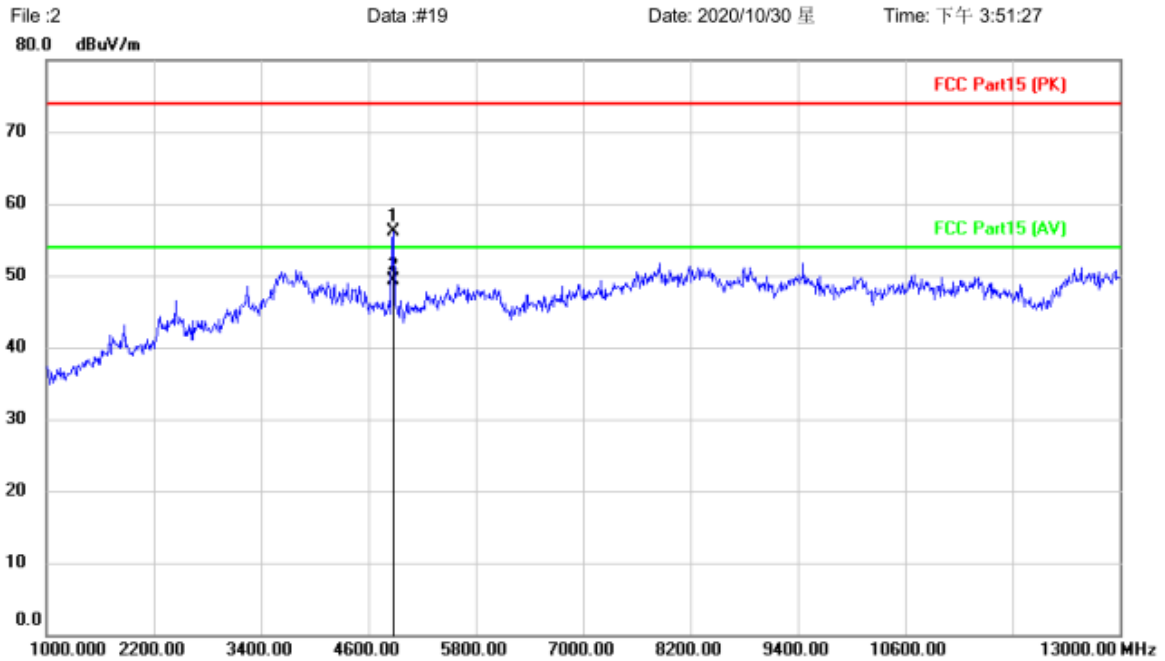
Power:

Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4828.000	63.88	-4.70	59.18	74.00	-14.82	peak		
2	*	4828.000	54.89	-4.70	50.19	54.00	-3.81	AVG		

Test channel: Middle

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4876.000	61.17	-5.03	56.14	74.00	-17.86	peak		
2	*	4876.000	54.36	-5.03	49.33	54.00	-4.67	AVG		

Radiated Emission Measurement

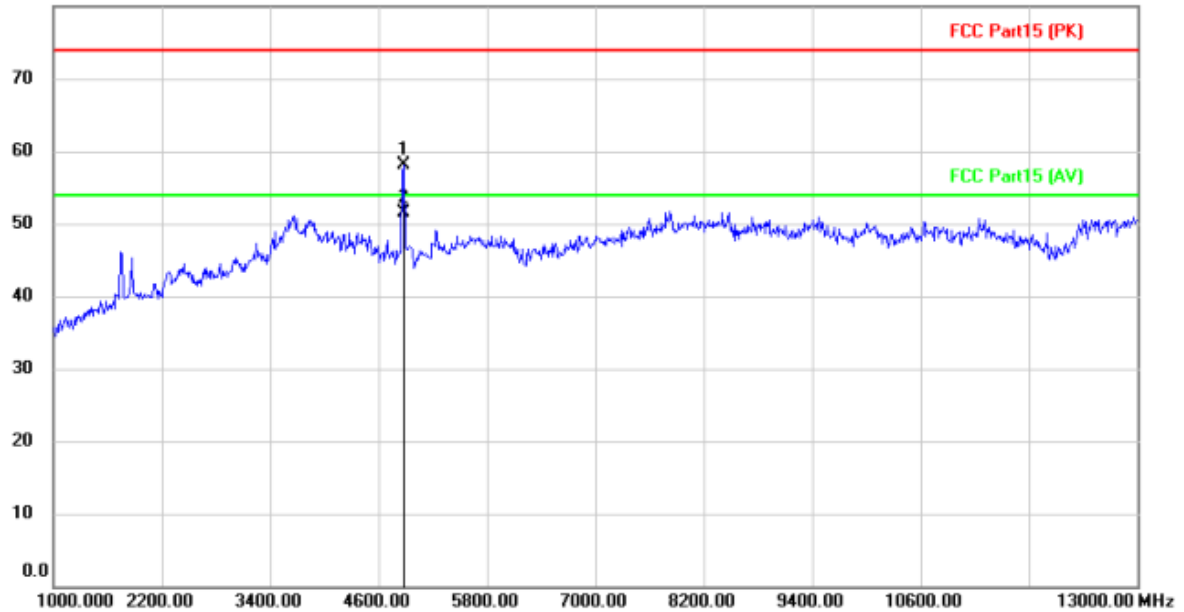
File :2

Data :#20

Date: 2020/10/30 星

Time: 下午 3:53:14

80.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

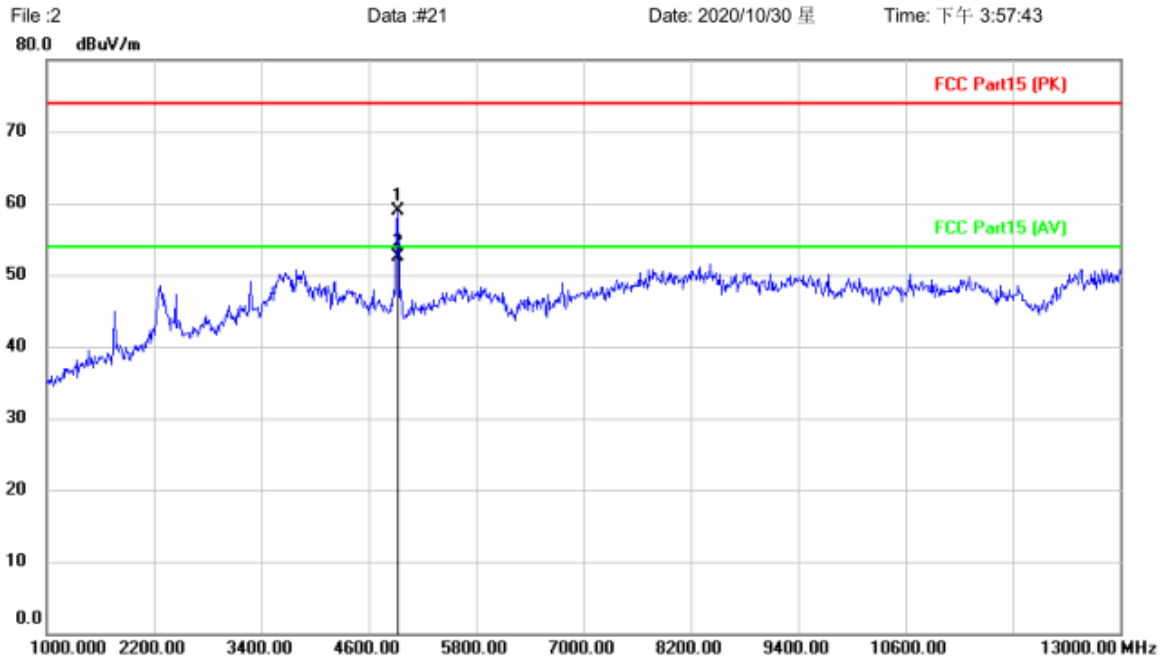
Power:

Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4876.000	63.12	-5.03	58.09	74.00	-15.91	peak		
2	*	4876.000	56.50	-5.03	51.47	54.00	-2.53	AVG		

Test channel: Highest

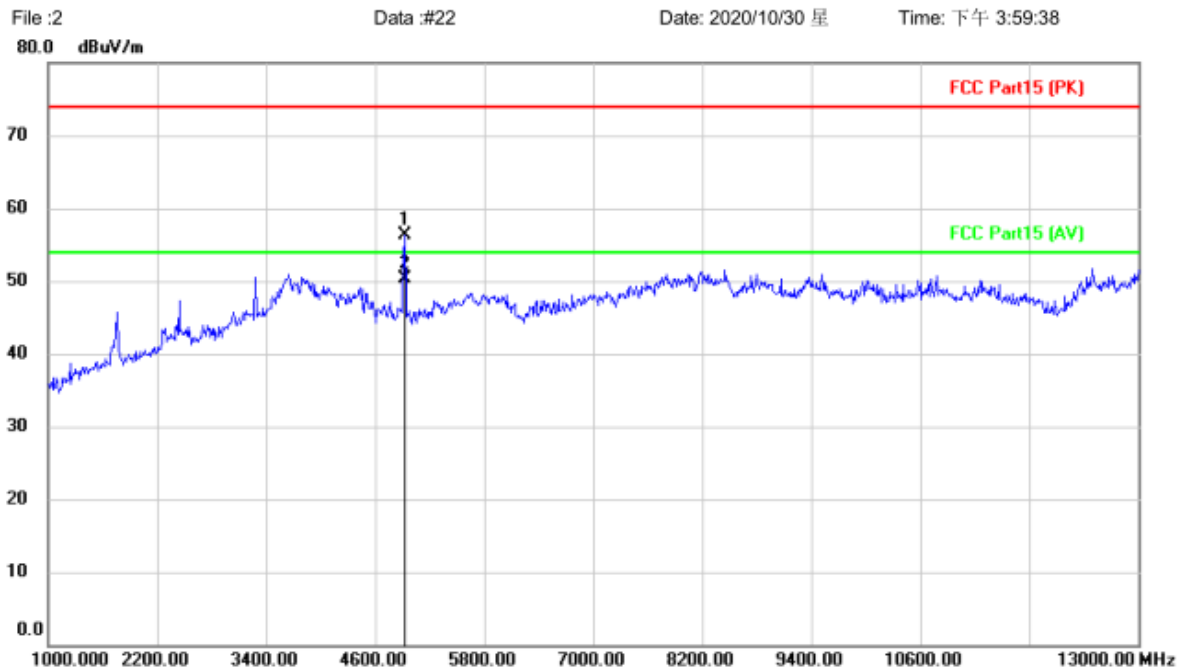
Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4924.000	63.93	-5.04	58.89	74.00	-15.11	peak		
2	*	4924.000	57.49	-5.04	52.45	54.00	-1.55	AVG		

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

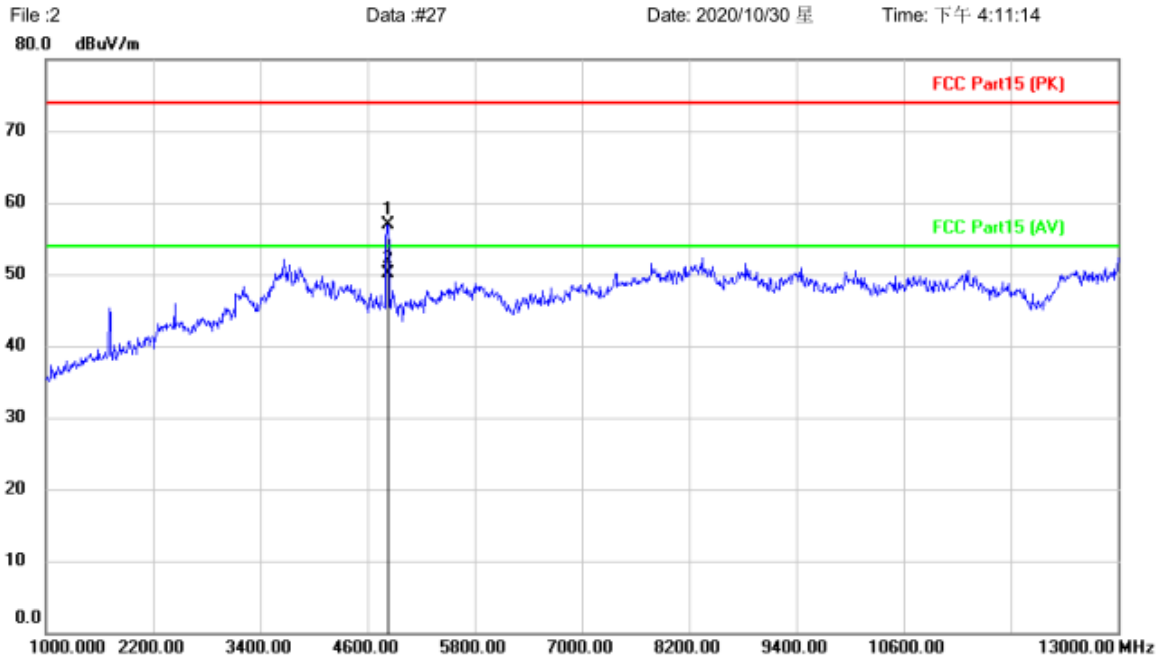
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4924.000	61.28	-5.04	56.24	74.00	-17.76	peak		
2	*	4924.000	55.29	-5.04	50.25	54.00	-3.75	AVG		

Test Result: Pass

[Test Mode: 802.11g]; [Above 1GHz]

Test channel:lowest

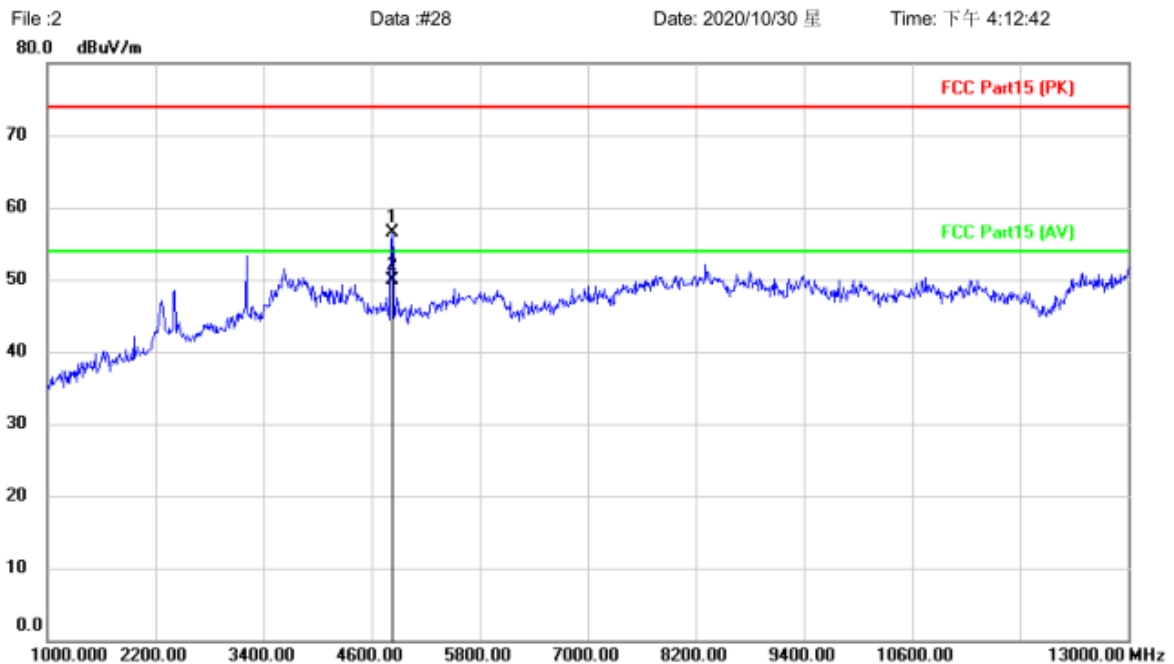
Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4828.000	61.66	-4.70	56.96	74.00	-17.04	peak		
2	*	4828.000	54.76	-4.70	50.06	54.00	-3.94	AVG		

Radiated Emission Measurement

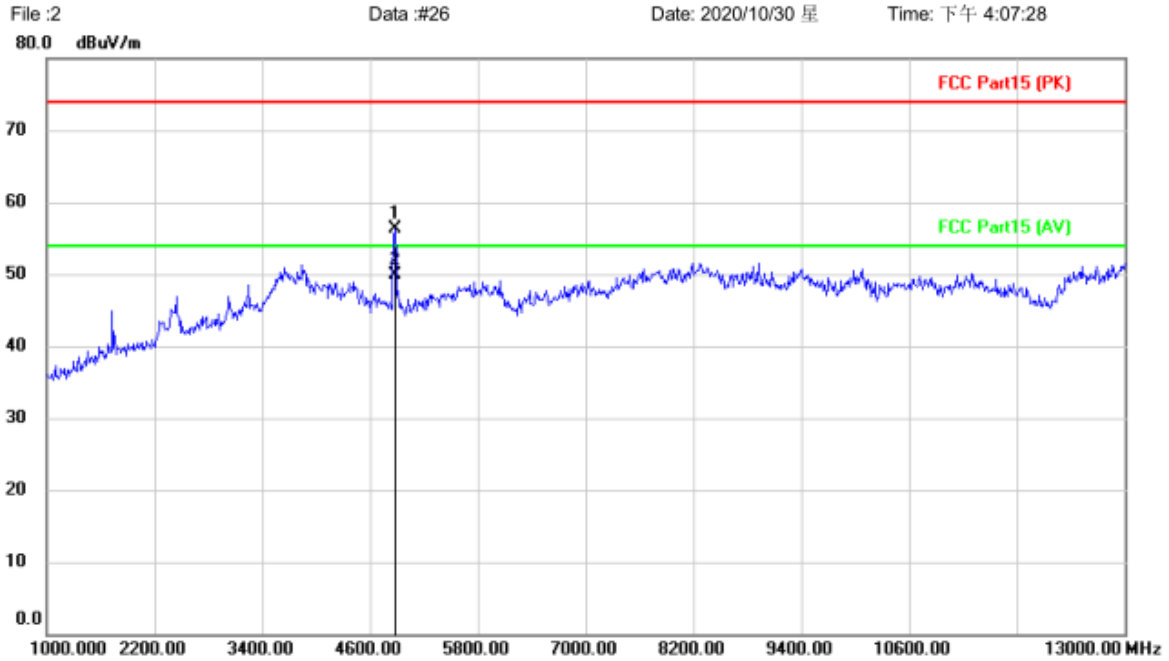


Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		4828.000	61.12	-4.70	56.42	74.00	-17.58	peak		
2	*	4828.000	54.61	-4.70	49.91	54.00	-4.09	AVG		

Test channel: Middle

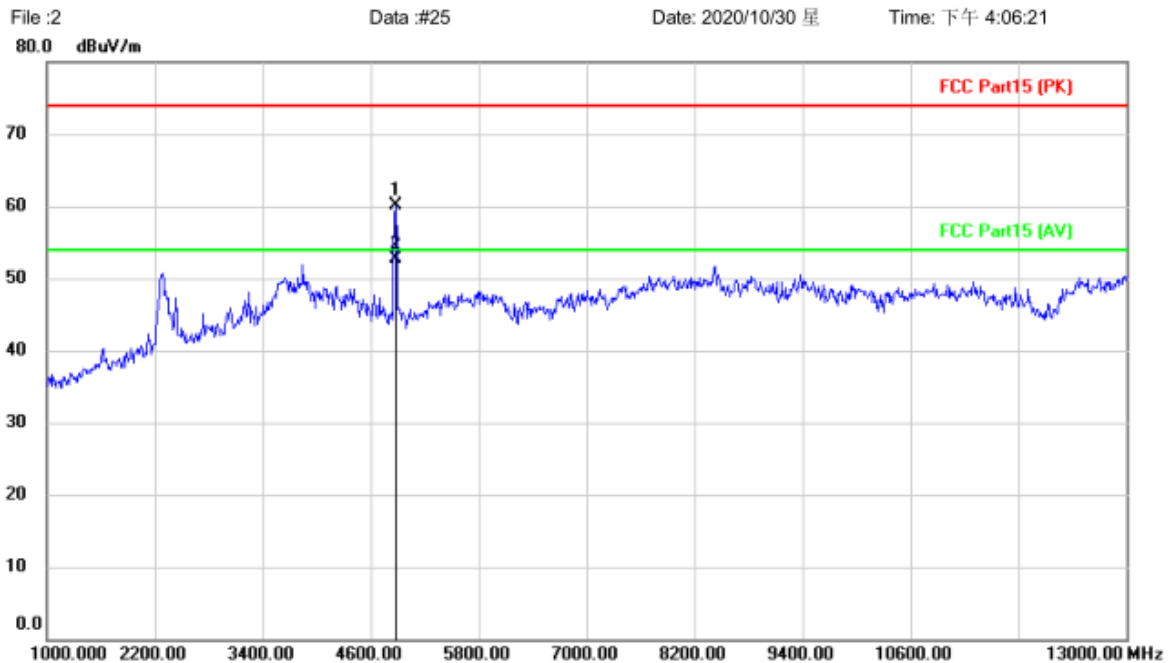
Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

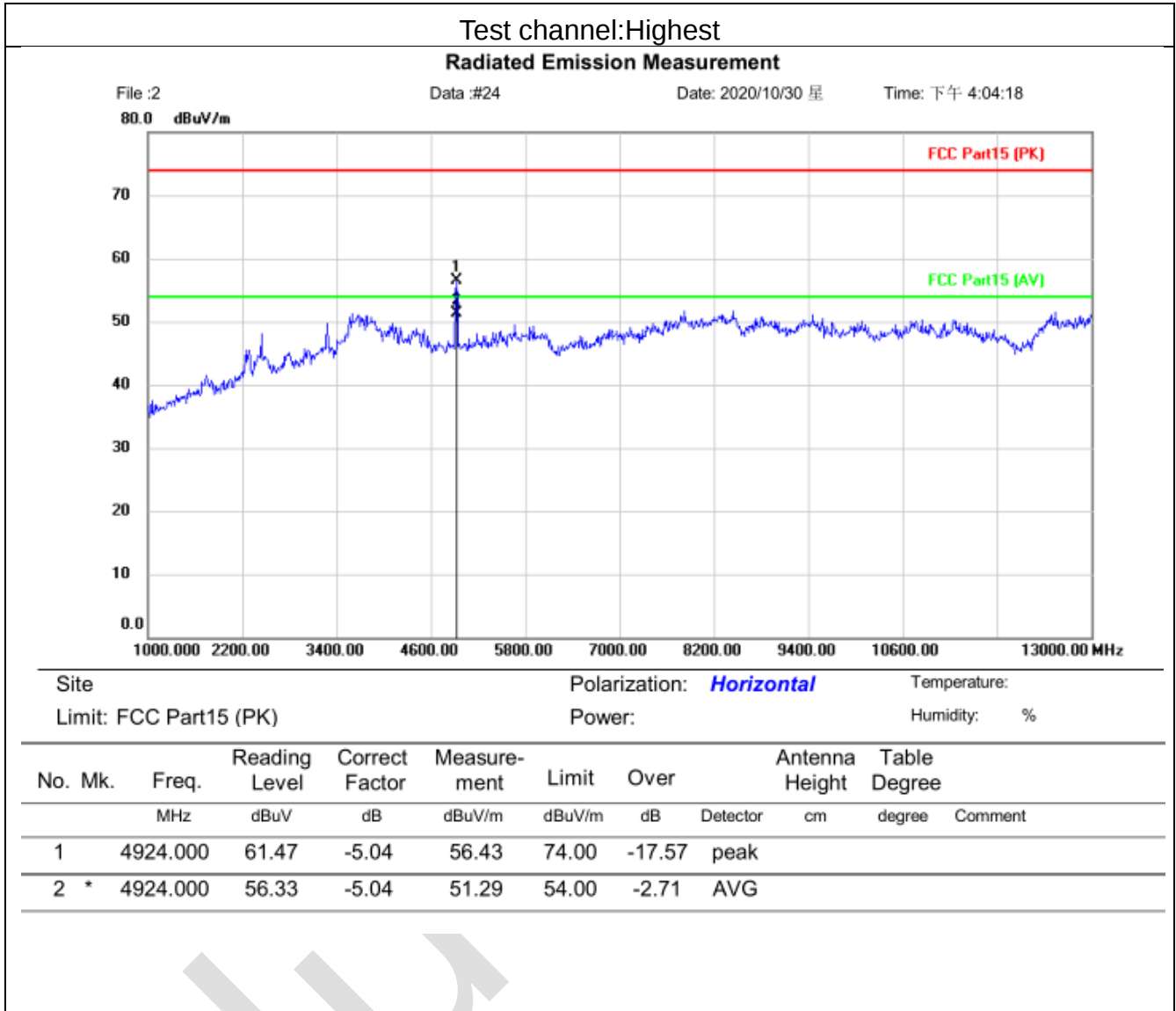
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		4876.000	61.39	-5.03	56.36	74.00	-17.64	peak			
2	*	4876.000	54.89	-5.03	49.86	54.00	-4.14	AVG			

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4876.000	65.12	-5.03	60.09	74.00	-13.91	peak		
2	*	4876.000	57.81	-5.03	52.78	54.00	-1.22	AVG		



Radiated Emission Measurement

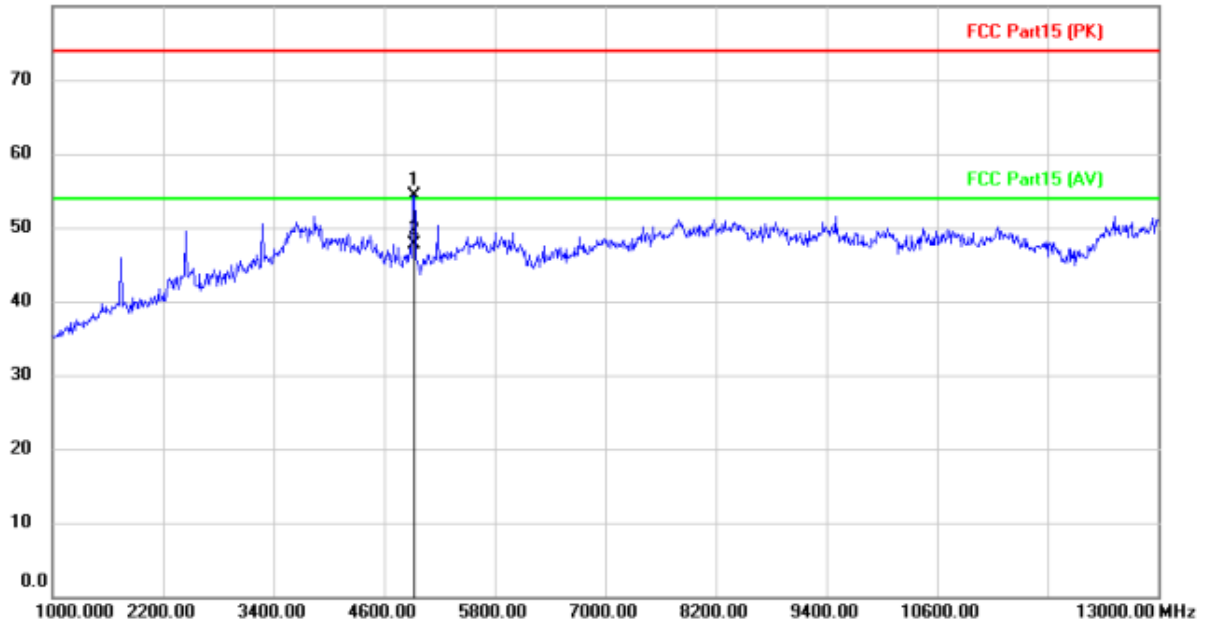
File :2

Data :#23

Date: 2020/10/30 星

Time: 下午 4:02:04

80.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

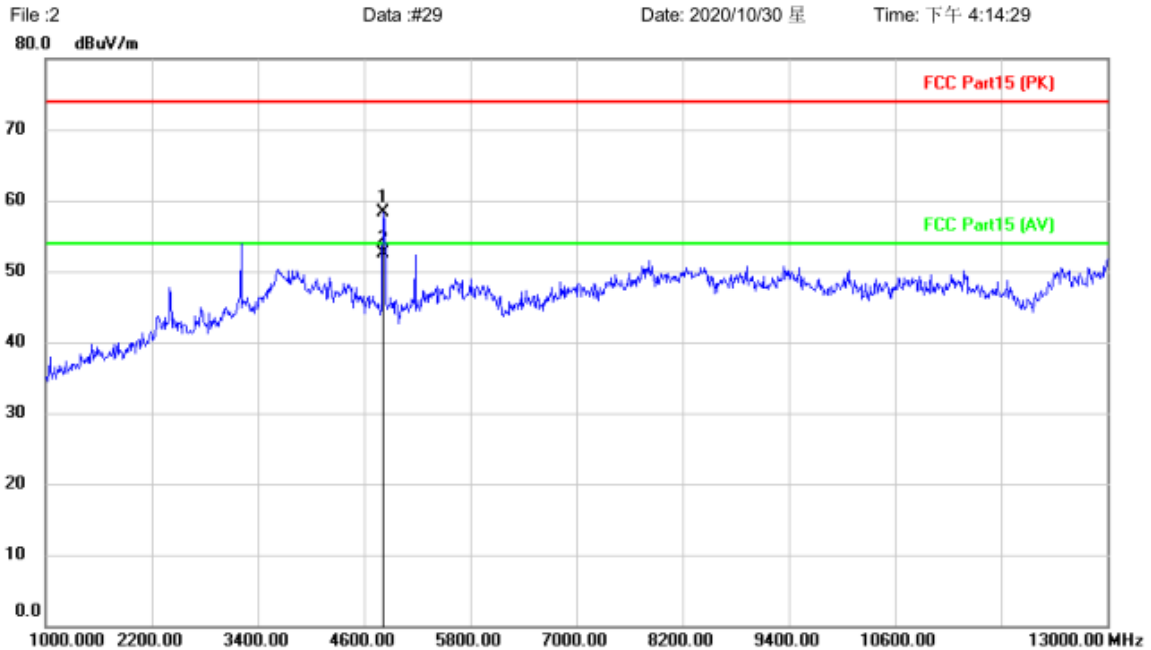
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4924.000	59.34	-5.04	54.30	74.00	-19.70	peak		
2	*	4924.000	52.73	-5.04	47.69	54.00	-6.31	AVG		

Test Result: Pass

[Test Mode: 802.11n20]; [Above 1GHz]

Test channel:lowest

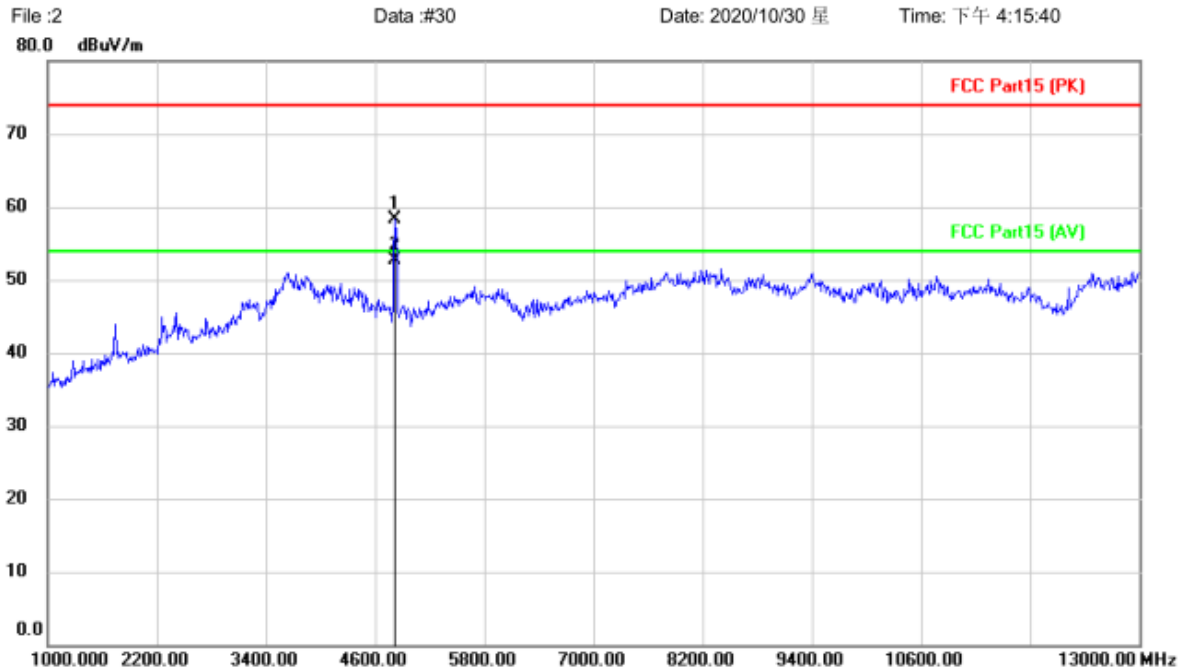
Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4816.000	62.83	-4.60	58.23	74.00	-15.77	peak		
2	*	4816.000	57.07	-4.60	52.47	54.00	-1.53	AVG		

Radiated Emission Measurement

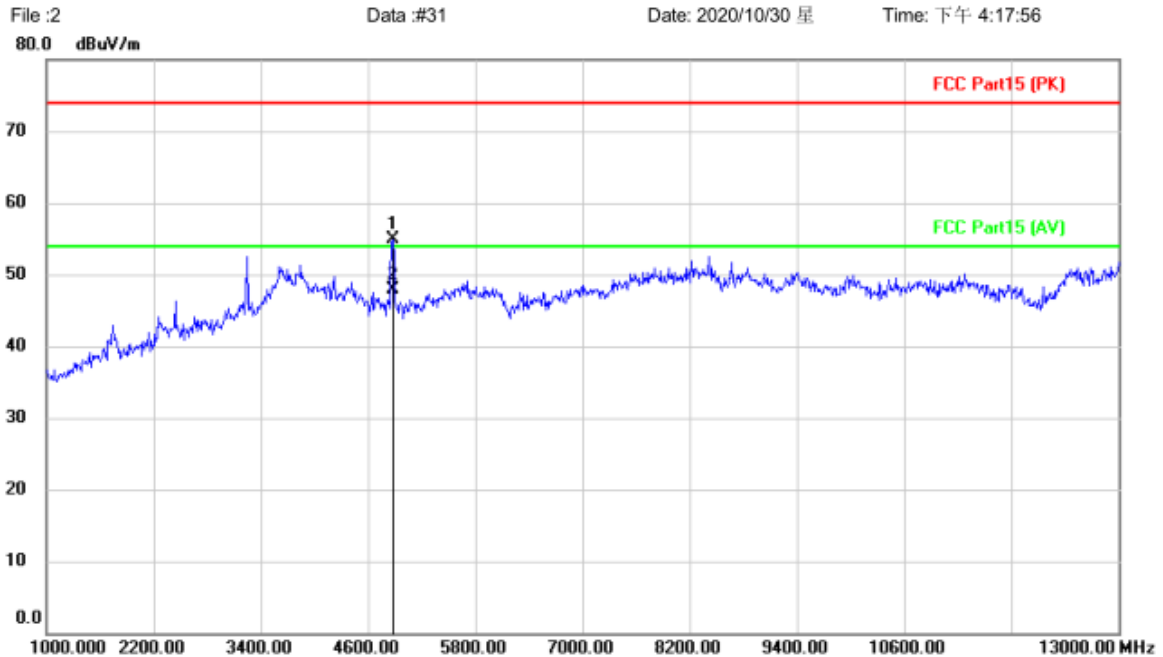


Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4816.000	62.86	-4.60	58.26	74.00	-15.74	peak		
2	*	4816.000	57.35	-4.60	52.75	54.00	-1.25	AVG		

Test channel: Middle

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		4876.000	59.88	-5.03	54.85	74.00	-19.15	peak			
2	*	4876.000	52.92	-5.03	47.89	54.00	-6.11	AVG			

Radiated Emission Measurement

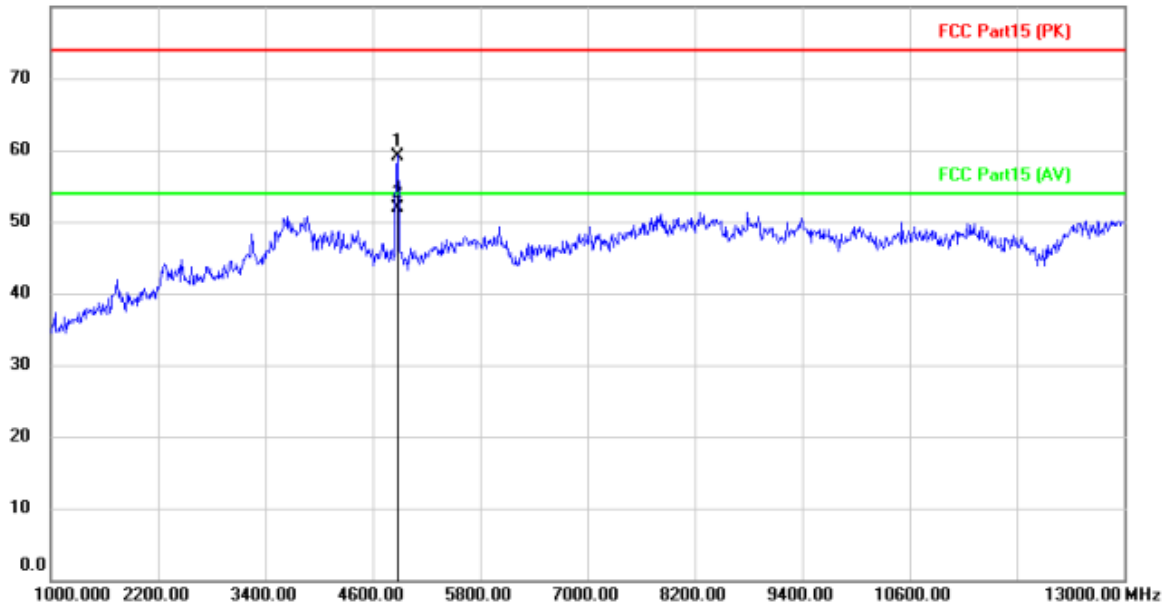
File :2

Data :#32

Date: 2020/10/30 星

Time: 下午 4:19:26

80.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

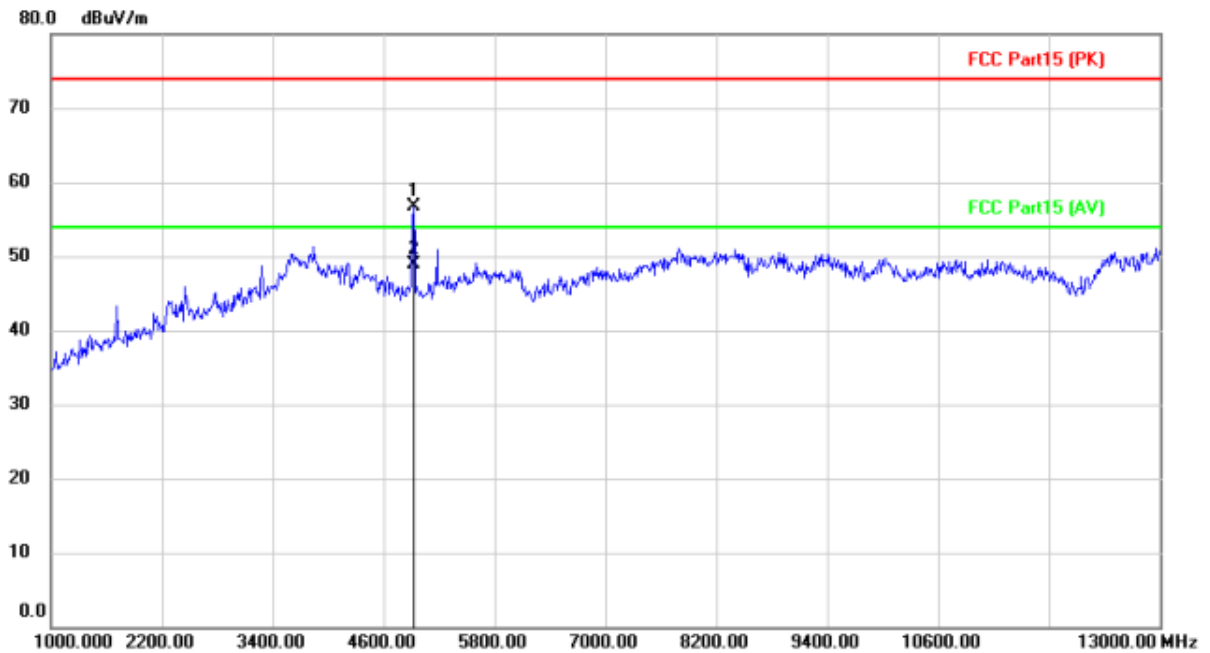
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4876.000	64.23	-5.03	59.20	74.00	-14.80	peak		
2	*	4876.000	56.96	-5.03	51.93	54.00	-2.07	AVG		

Test channel: Highest

Radiated Emission Measurement

File :2 Data :#33 Date: 2020/10/30 星 Time: 下午 4:20:54



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4924.000	61.78	-5.04	56.74	74.00	-17.26	peak		
2	*	4924.000	53.90	-5.04	48.86	54.00	-5.14	AVG		

Radiated Emission Measurement

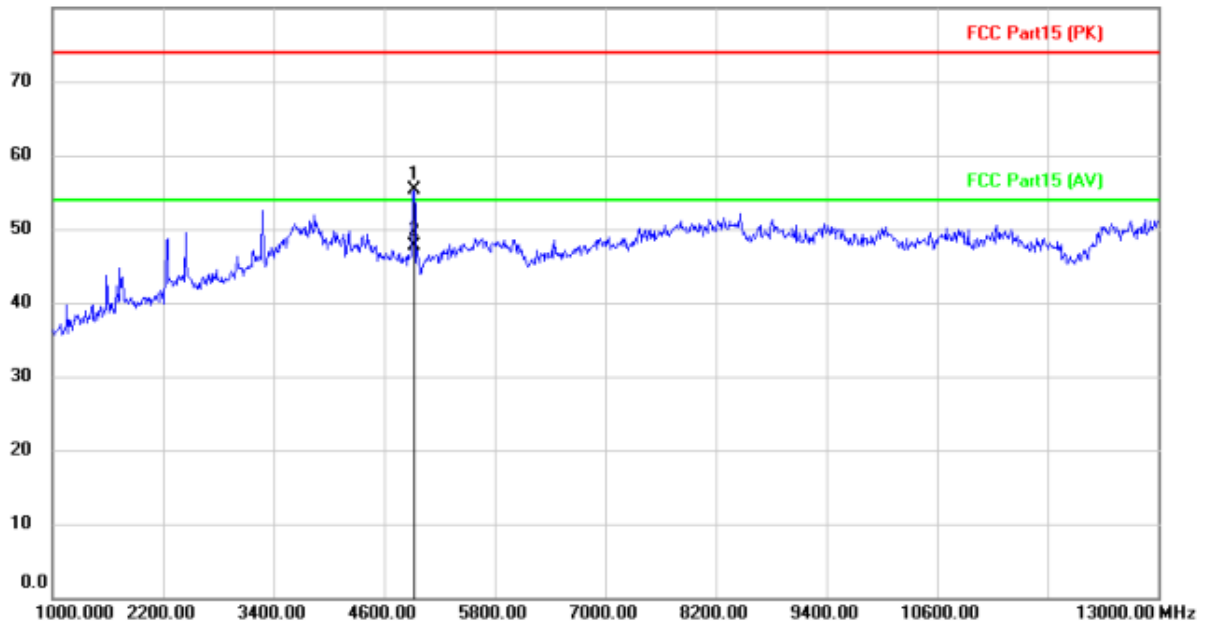
File :2

Data :#34

Date: 2020/10/30 星

Time: 下午 4:22:45

80.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

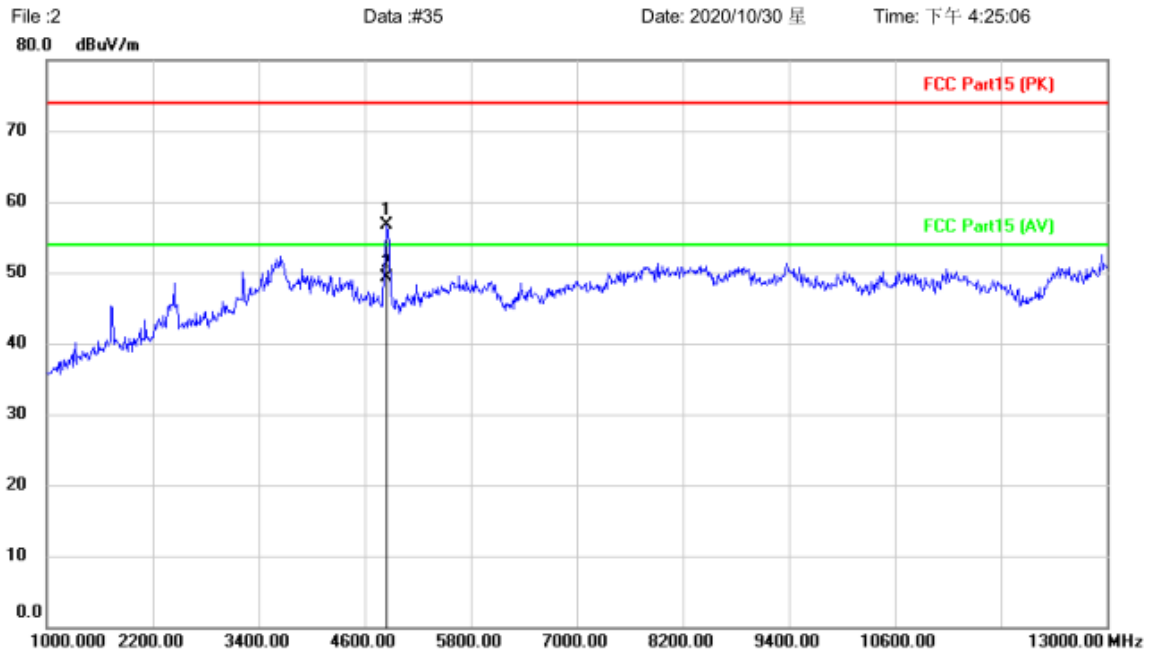
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4924.000	60.39	-5.04	55.35	74.00	-18.65	peak		
2	*	4924.000	52.77	-5.04	47.73	54.00	-6.27	AVG		

Test Result: Pass

[Test Mode: 802.11n40]; [Above 1GHz]

Test channel:lowest

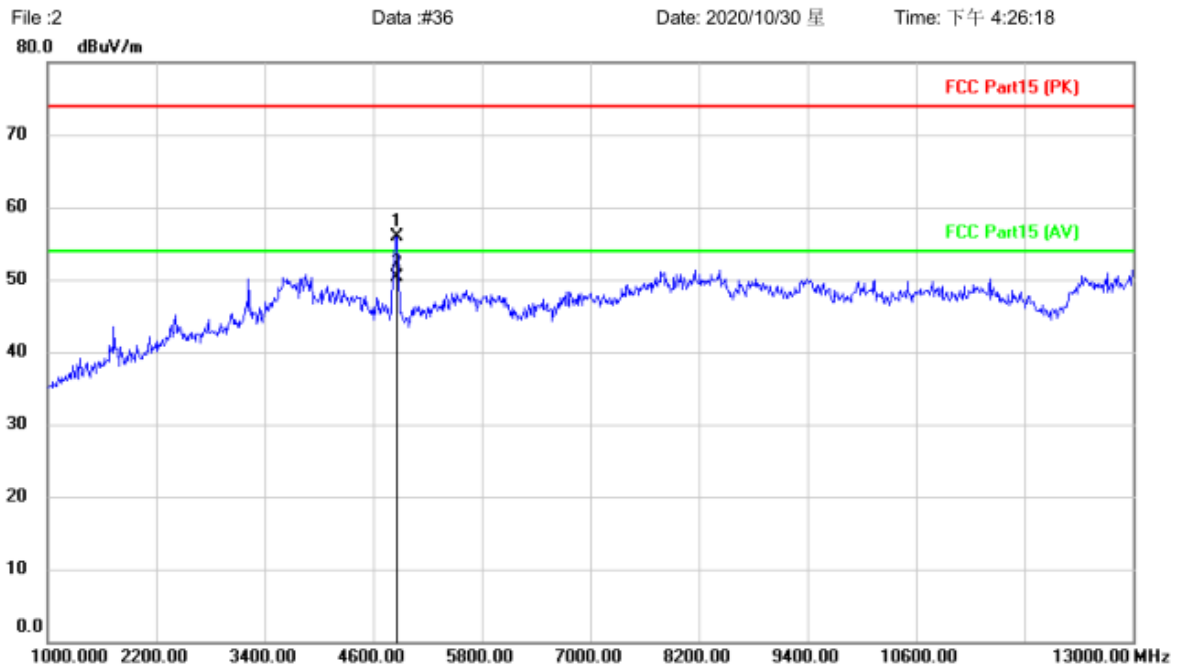
Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4852.000	61.55	-4.86	56.69	74.00	-17.31	peak		
2	*	4852.000	54.23	-4.86	49.37	54.00	-4.63	AVG		

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4864.000	60.89	-4.93	55.96	74.00	-18.04	peak		
2	*	4864.000	55.15	-4.93	50.22	54.00	-3.78	AVG		

Test channel: Middle

Radiated Emission Measurement

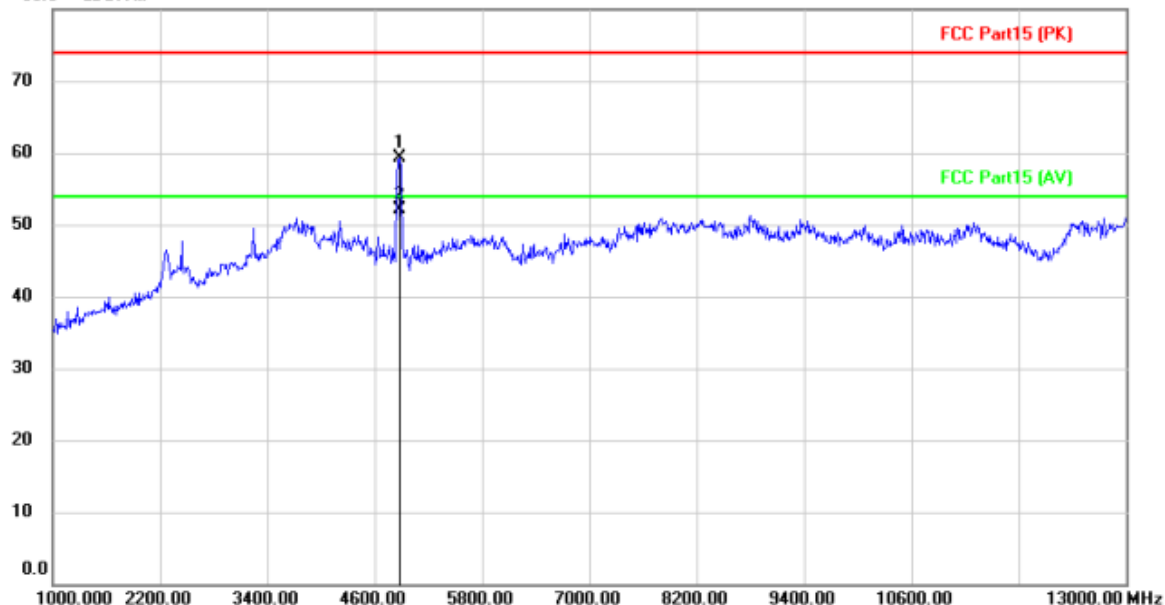
File :2

Data :#37

Date: 2020/10/30 星

Time: 下午 4:27:20

80.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature:

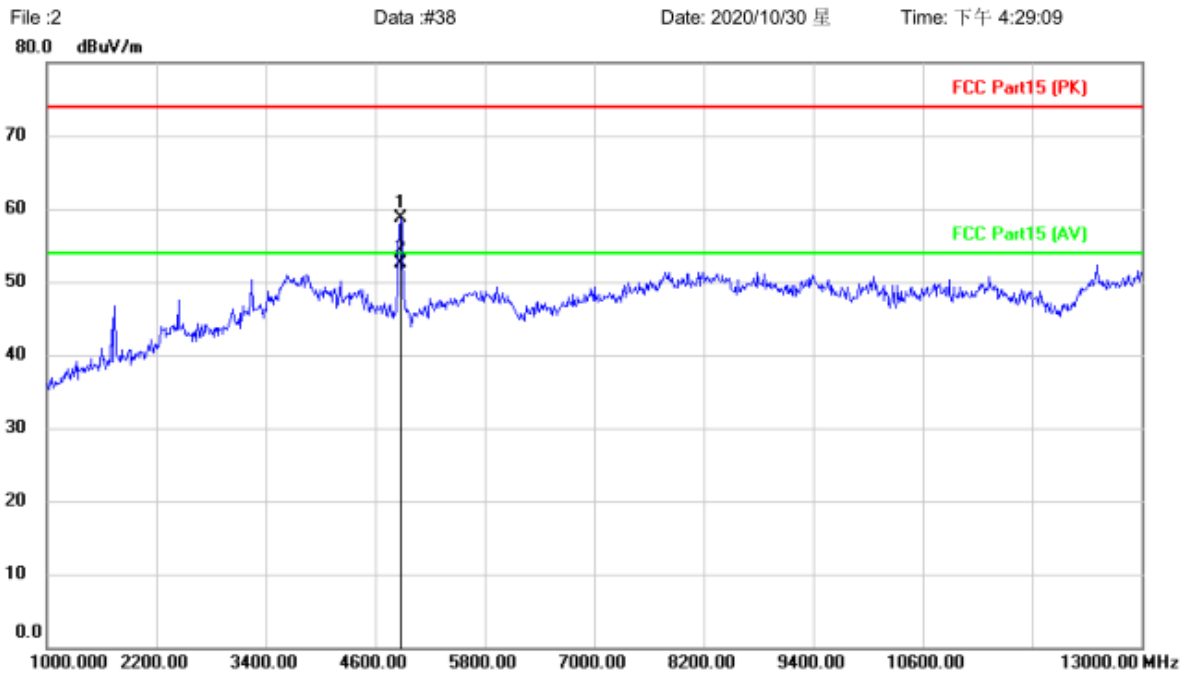
Limit: FCC Part15 (PK)

Power:

Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4876.000	64.33	-5.03	59.30	74.00	-14.70	peak		
2	*	4876.000	57.07	-5.03	52.04	54.00	-1.96	AVG		

Radiated Emission Measurement

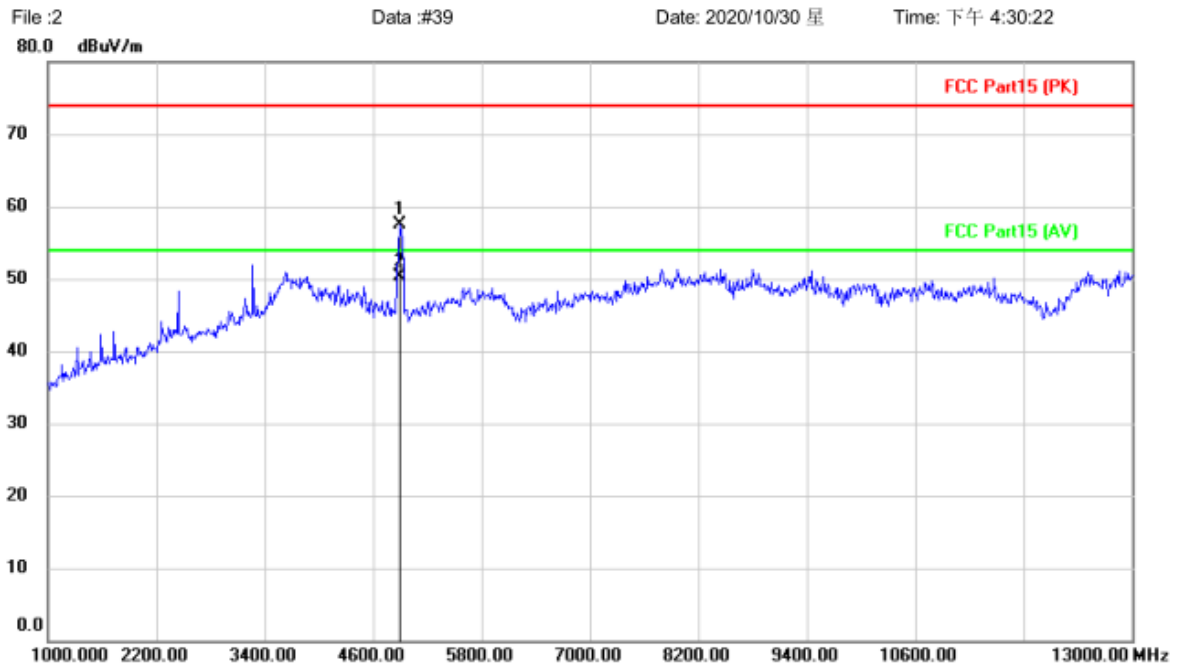


Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		4876.000	63.79	-5.03	58.76	74.00	-15.24	peak		
2	*	4876.000	57.47	-5.03	52.44	54.00	-1.56	AVG		

Test channel: Highest

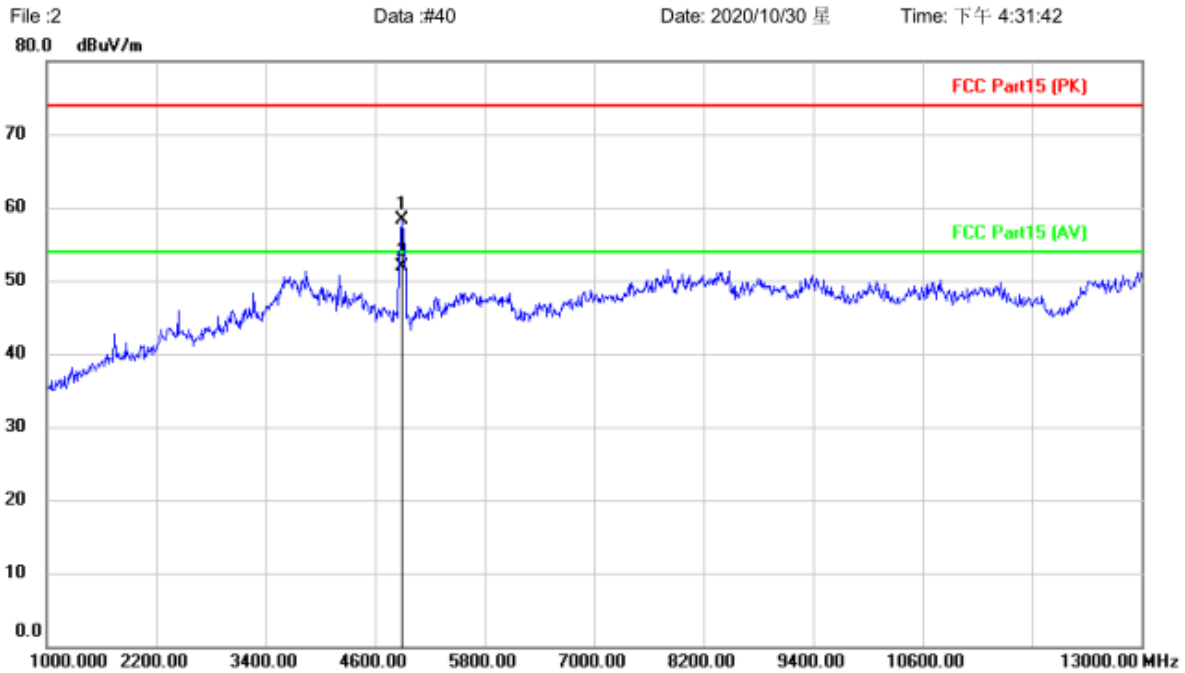
Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4900.000	62.72	-5.19	57.53	74.00	-16.47	peak		
2	*	4900.000	55.47	-5.19	50.28	54.00	-3.72	AVG		

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		4900.000	63.46	-5.19	58.27	74.00	-15.73	peak		
2	*	4900.000	57.14	-5.19	51.95	54.00	-2.05	AVG		

Test Result: Pass

RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

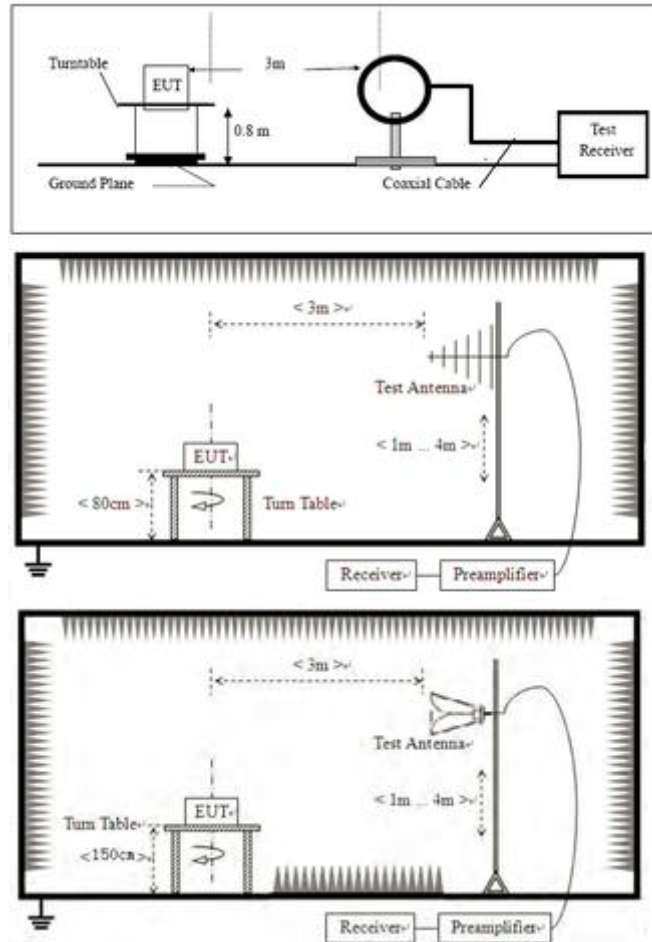
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	23℃
Humidity	54%

LIMITS

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

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

BLOCK DIAGRAM OF TEST SETUP



PROCEDURE

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

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

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$

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

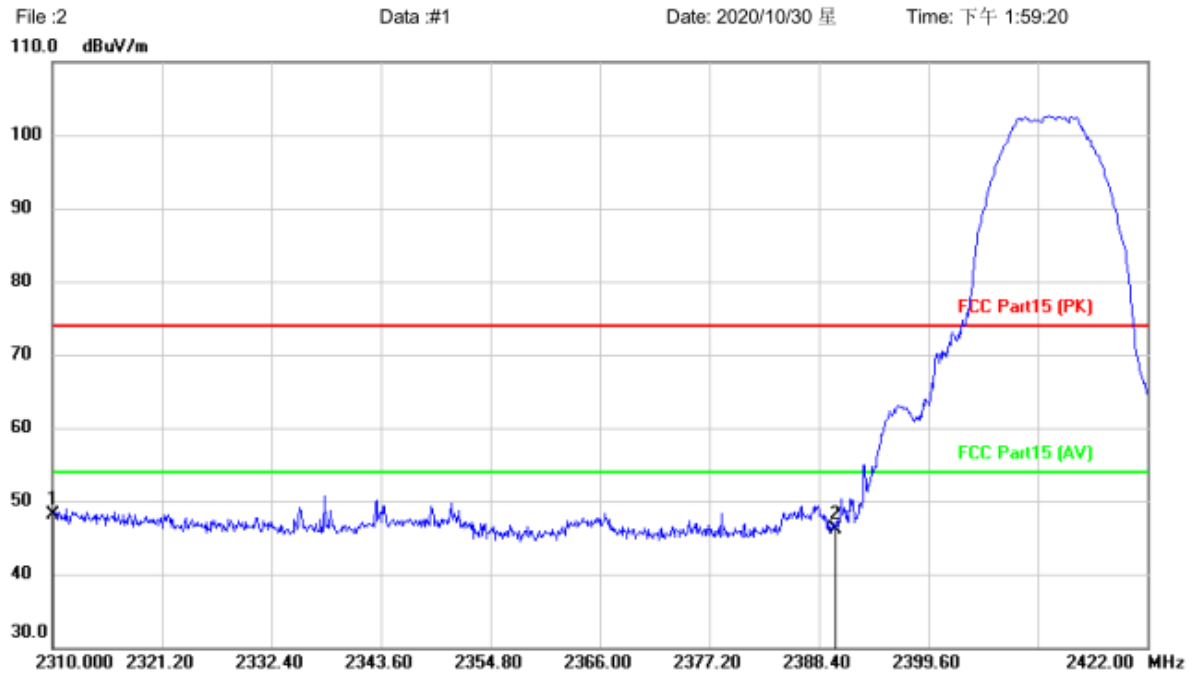
BlueAsia

TEST DATA

802.11b:Lowest channel

Peak value

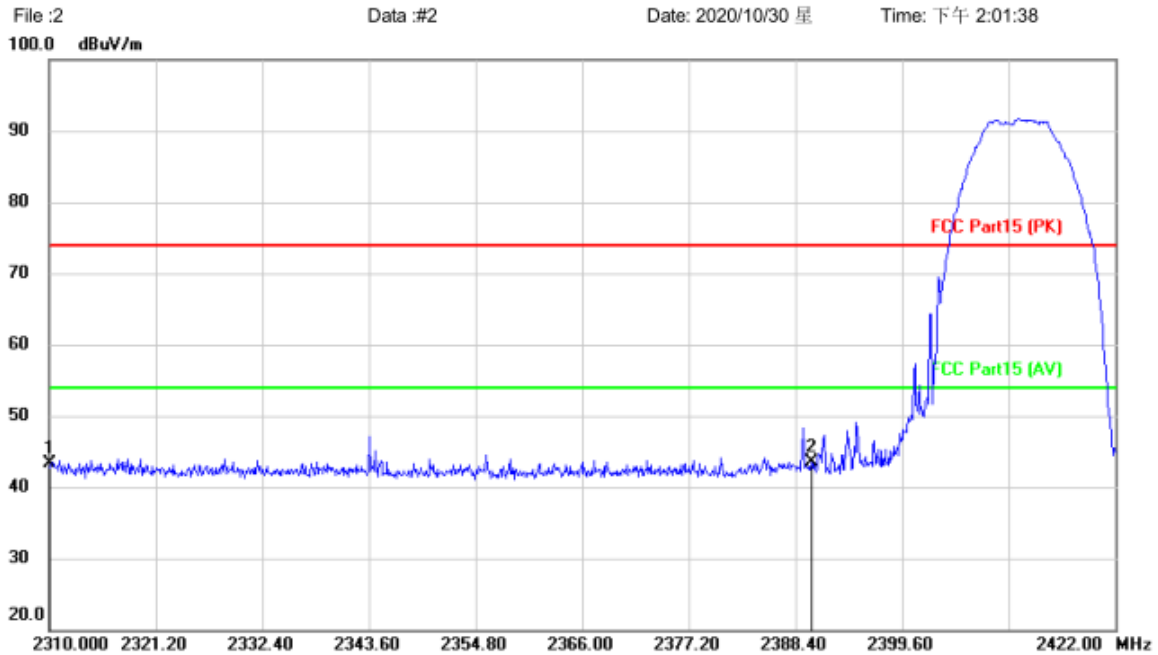
Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2310.000	62.07	-14.01	48.06	74.00	-25.94	peak		
2		2390.000	59.73	-13.62	46.11	74.00	-27.89	peak		

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		2310.000	57.68	-14.30	43.38	74.00	-30.62	peak			
2	*	2390.000	57.48	-13.95	43.53	74.00	-30.47	peak			

802.11b: Highest channel

Peak value

Radiated Emission Measurement

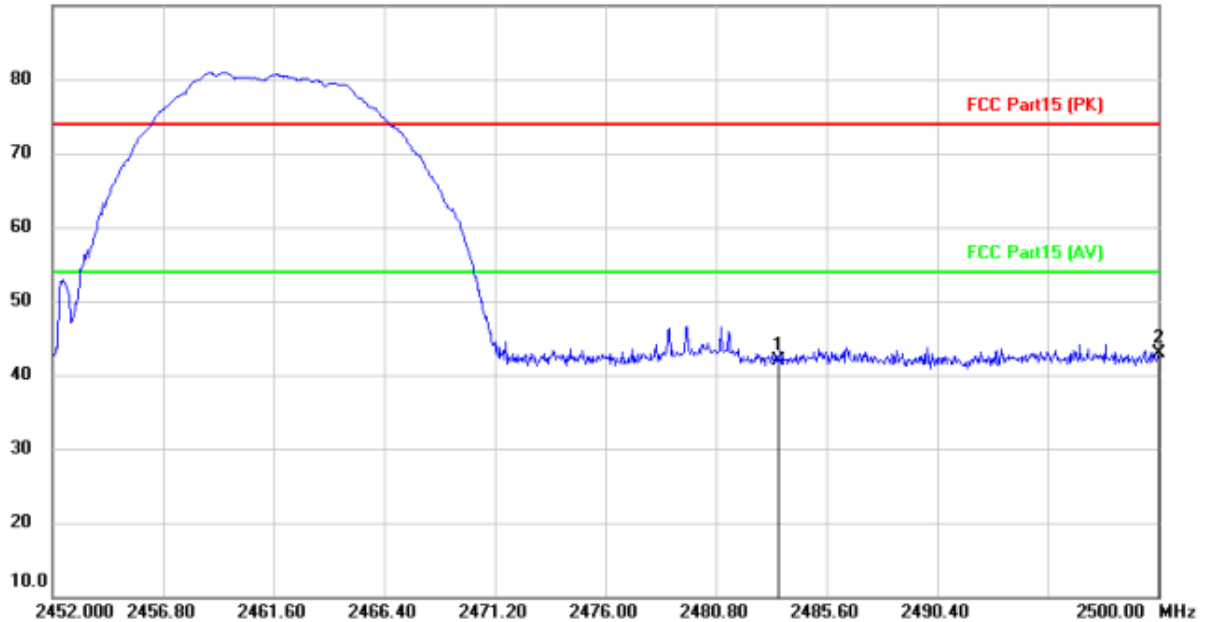
File :2

Data :#3

Date: 2020/10/30 星

Time: 下午 2:05:08

90.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	55.05	-13.11	41.94	74.00	-32.06	peak		
2	*	2500.000	55.91	-13.02	42.89	74.00	-31.11	peak		

Radiated Emission Measurement

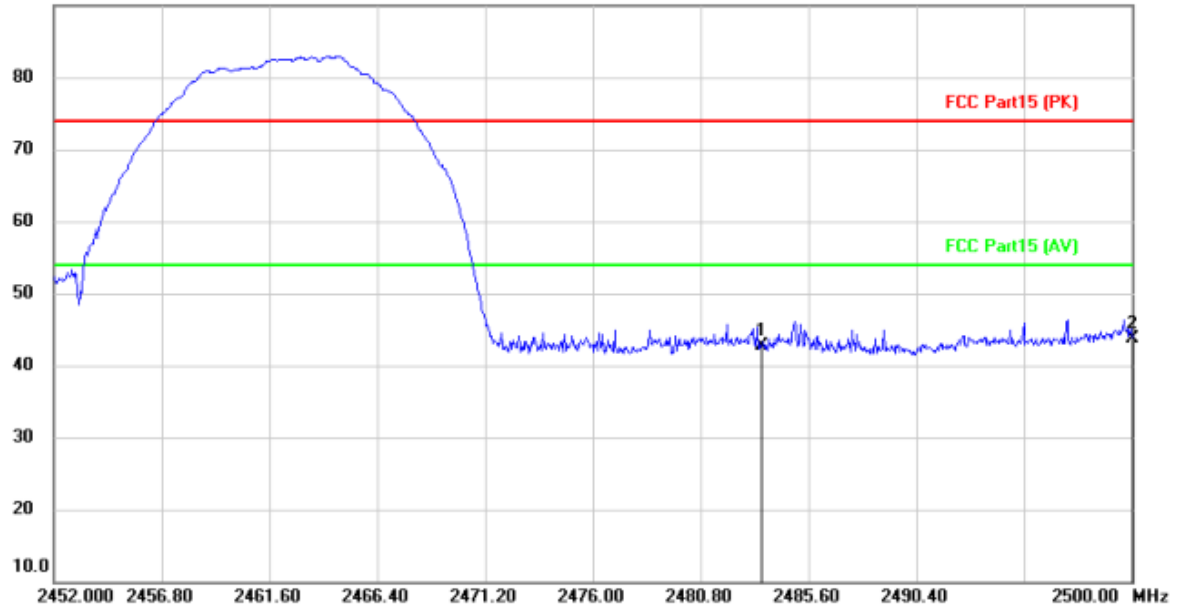
File :2

Data :#4

Date: 2020/10/30 星

Time: 下午 2:07:10

90.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

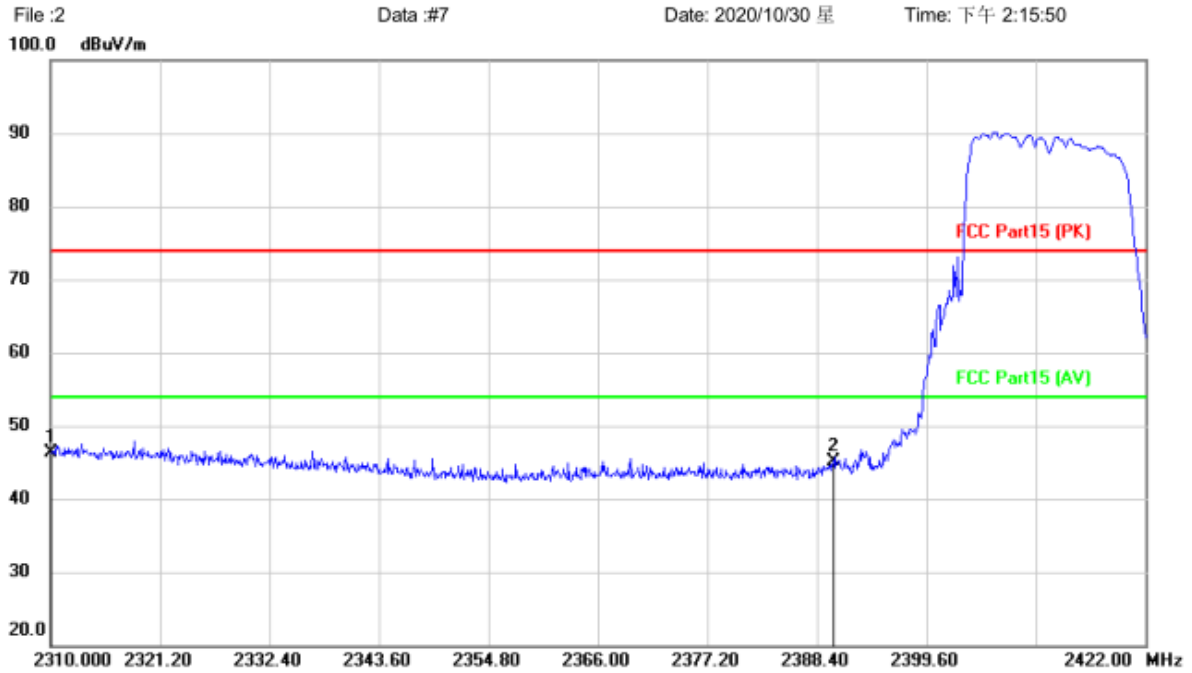
Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	56.30	-13.50	42.80	74.00	-31.20	peak		
2	*	2500.000	57.16	-13.42	43.74	74.00	-30.26	peak		

802.11g:Lowest channel

Peak value

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2310.000	60.31	-14.01	46.30	74.00	-27.70	peak		
2		2390.000	58.77	-13.62	45.15	74.00	-28.85	peak		

Radiated Emission Measurement

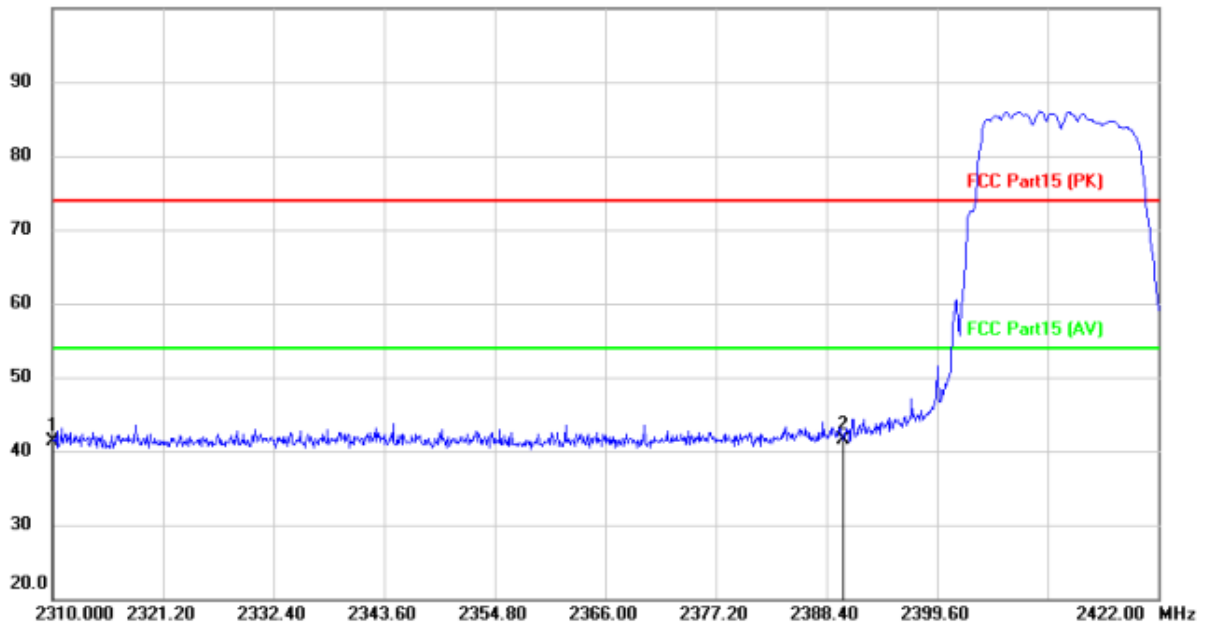
File :2

Data :#8

Date: 2020/10/30 星

Time: 下午 2:17:24

100.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

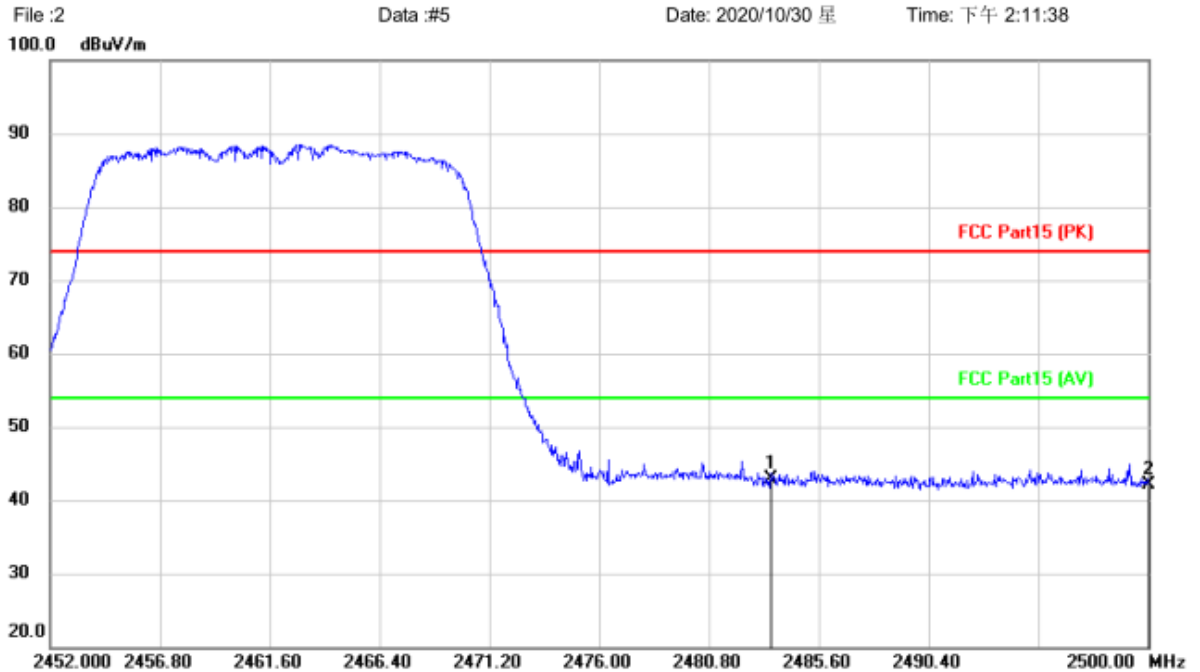
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	55.61	-14.30	41.31	74.00	-32.69	peak		
2	*	2390.000	55.42	-13.95	41.47	74.00	-32.53	peak		

802.11g: Highest channel

Peak value

Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature: Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2483.500	55.95	-13.11	42.84	74.00	-31.16	peak		
2		2500.000	55.17	-13.02	42.15	74.00	-31.85	peak		

Radiated Emission Measurement

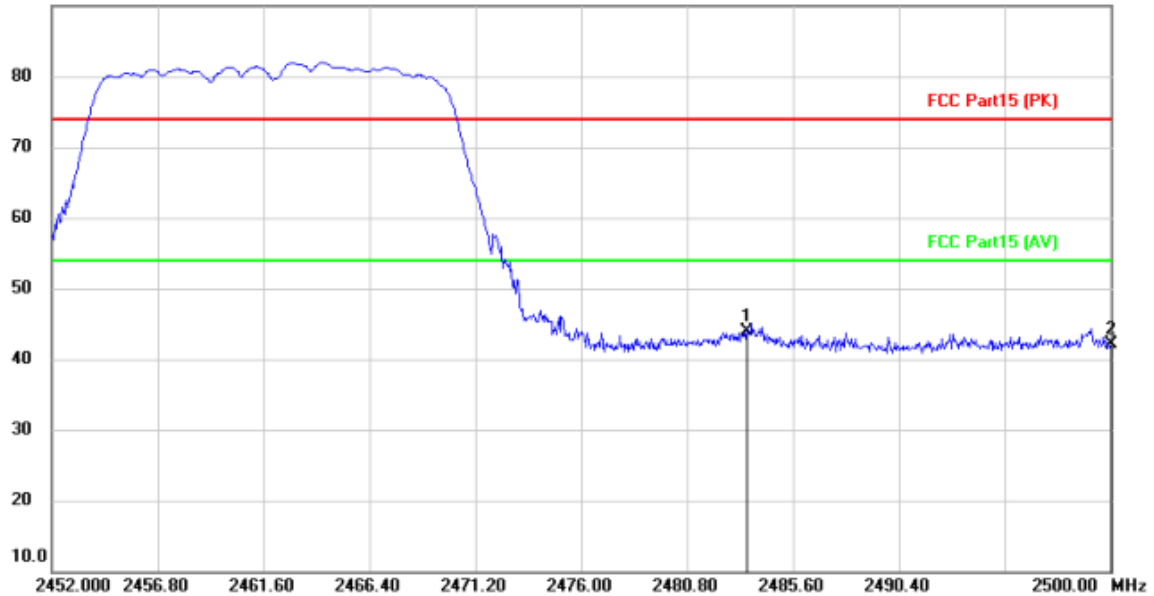
File :2

Data :#6

Date: 2020/10/30 星

Time: 下午 2:12:55

90.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

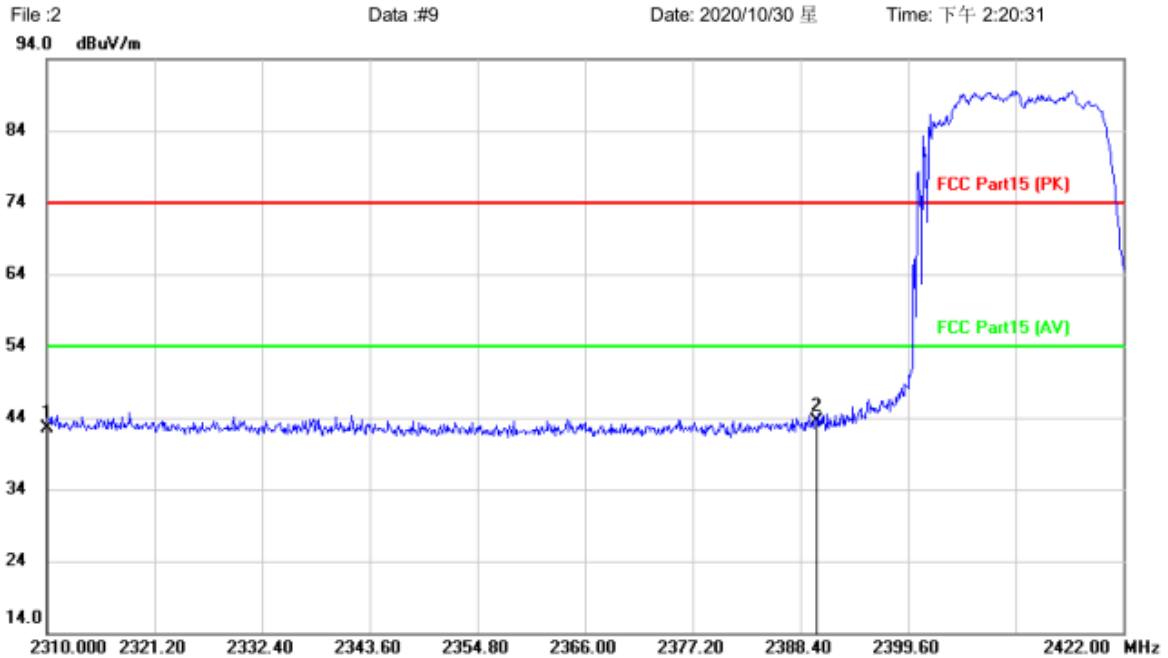
Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2483.500	57.44	-13.50	43.94	74.00	-30.06	peak		
2		2500.000	55.49	-13.42	42.07	74.00	-31.93	peak		

802.11n20:Lowest channel

Peak value

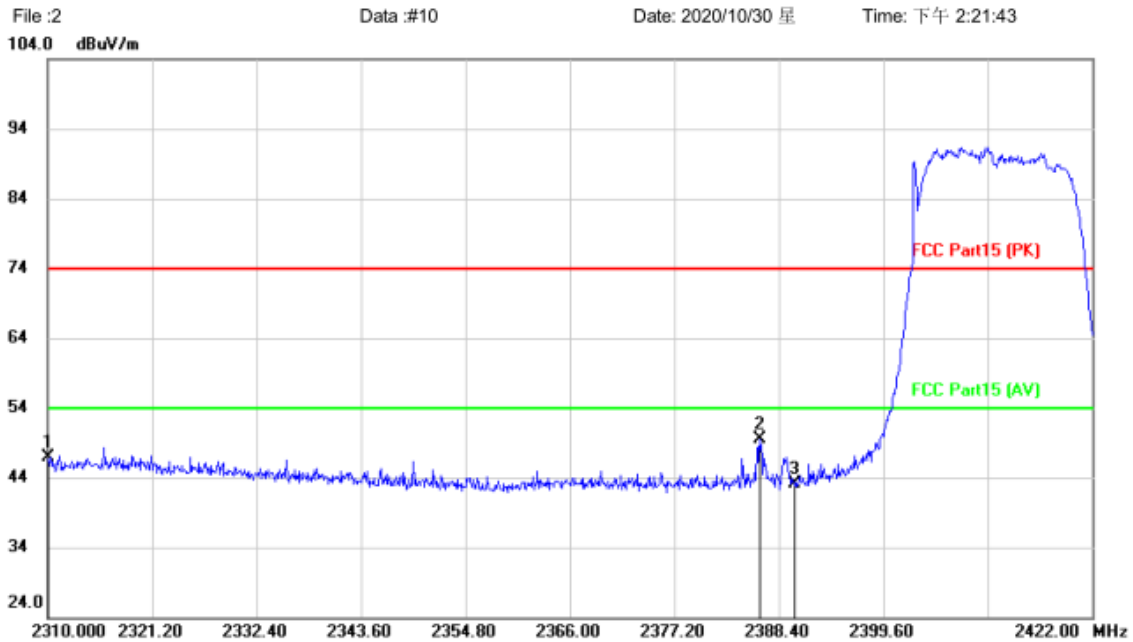
Radiated Emission Measurement



Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	56.89	-14.30	42.59	74.00	-31.41	peak		
2	*	2390.000	57.40	-13.95	43.45	74.00	-30.55	peak		

Radiated Emission Measurement



Site
Limit: FCC Part15 (PK)

Polarization: **Horizontal**
Power:

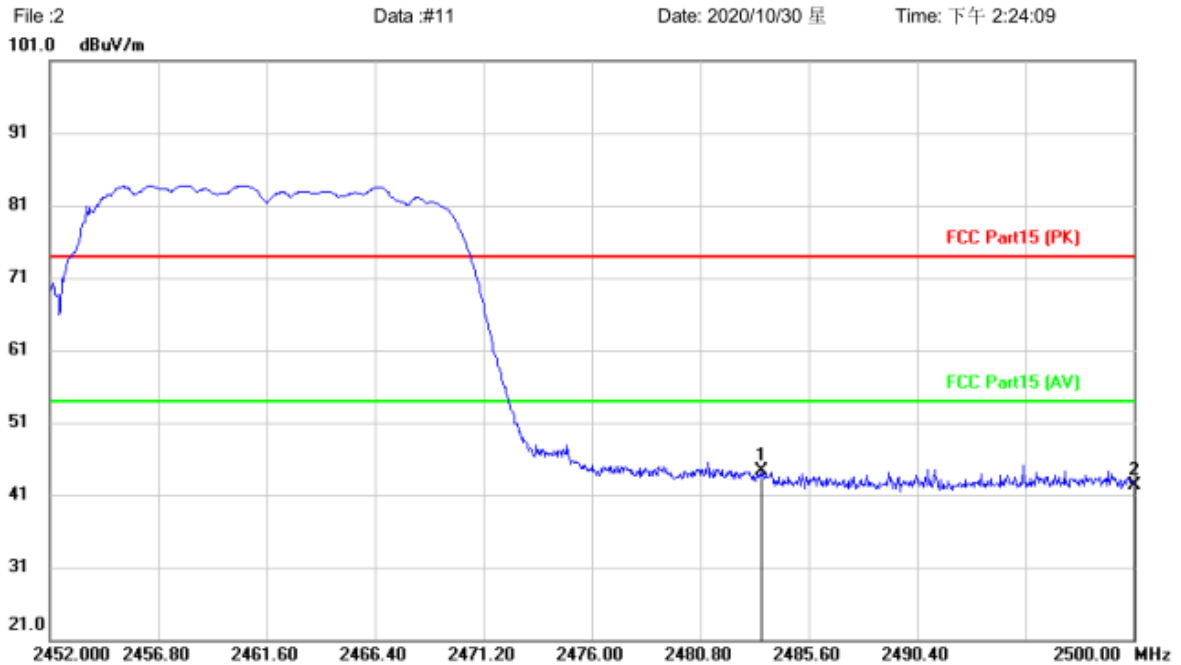
Temperature:
Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	60.93	-14.01	46.92	74.00	-27.08	peak		
2	*	2386.384	63.11	-13.63	49.48	74.00	-24.52	peak		
3		2390.000	56.72	-13.62	43.10	74.00	-30.90	peak		

802.11n20: Highest channel

Peak value

Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature: Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2483.500	57.46	-13.11	44.35	74.00	-29.65	peak		
2		2500.000	55.39	-13.02	42.37	74.00	-31.63	peak		

Radiated Emission Measurement

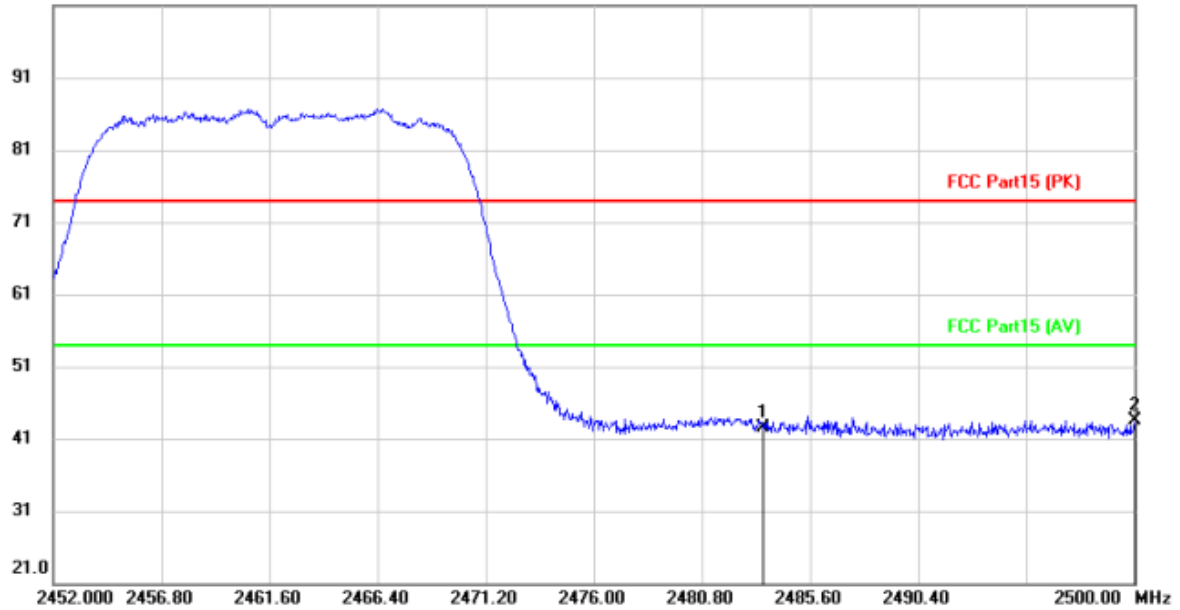
File :2

Data :#12

Date: 2020/10/30 星

Time: 下午 2:26:14

101.0 dBuV/m



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

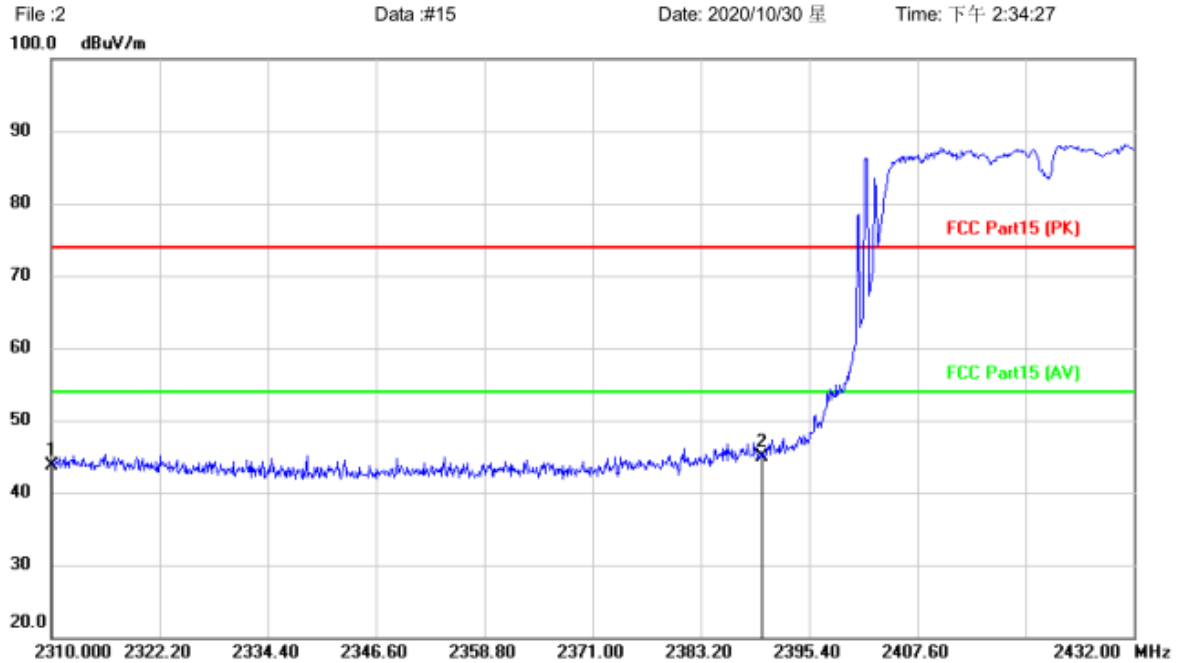
Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2483.500	55.92	-13.50	42.42	74.00	-31.58	peak			
2	*	2500.000	56.94	-13.42	43.52	74.00	-30.48	peak			

802.11n40:Lowest channel

Peak value

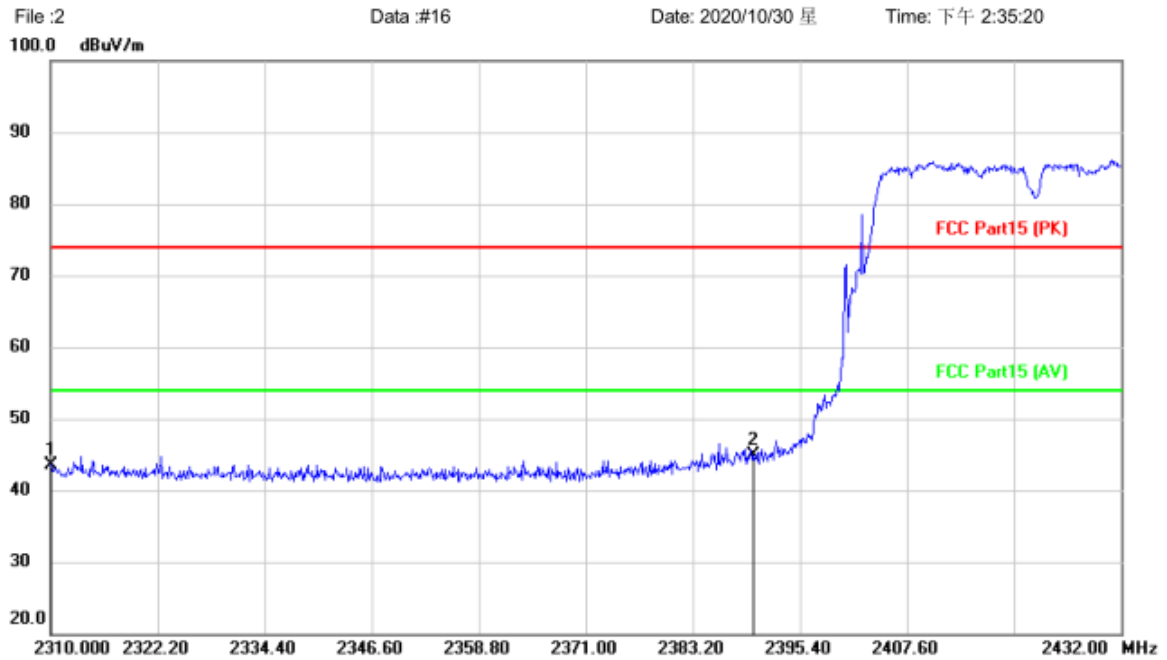
Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	57.72	-14.01	43.71	74.00	-30.29	peak		
2	*	2390.000	58.58	-13.62	44.96	74.00	-29.04	peak		

Radiated Emission Measurement



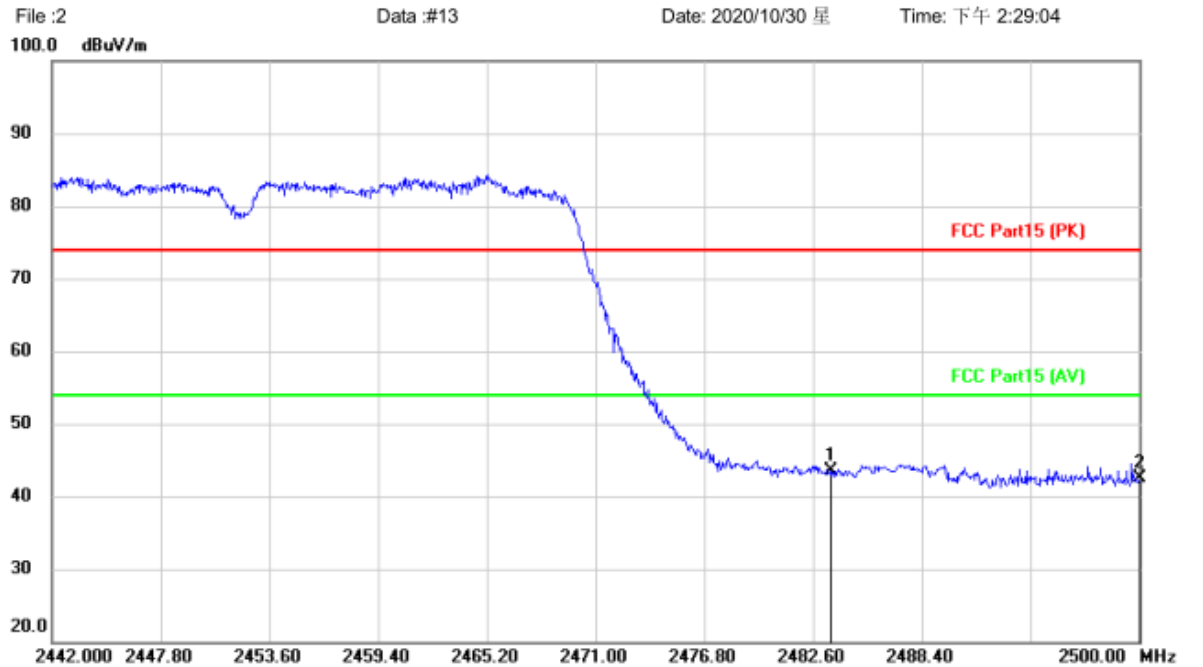
Site Polarization: **Vertical** Temperature:
Limit: FCC Part15 (PK) Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	57.85	-14.30	43.55	74.00	-30.45	peak		
2	*	2390.000	58.82	-13.95	44.87	74.00	-29.13	peak		

802.11n40: Highest channel

Peak value

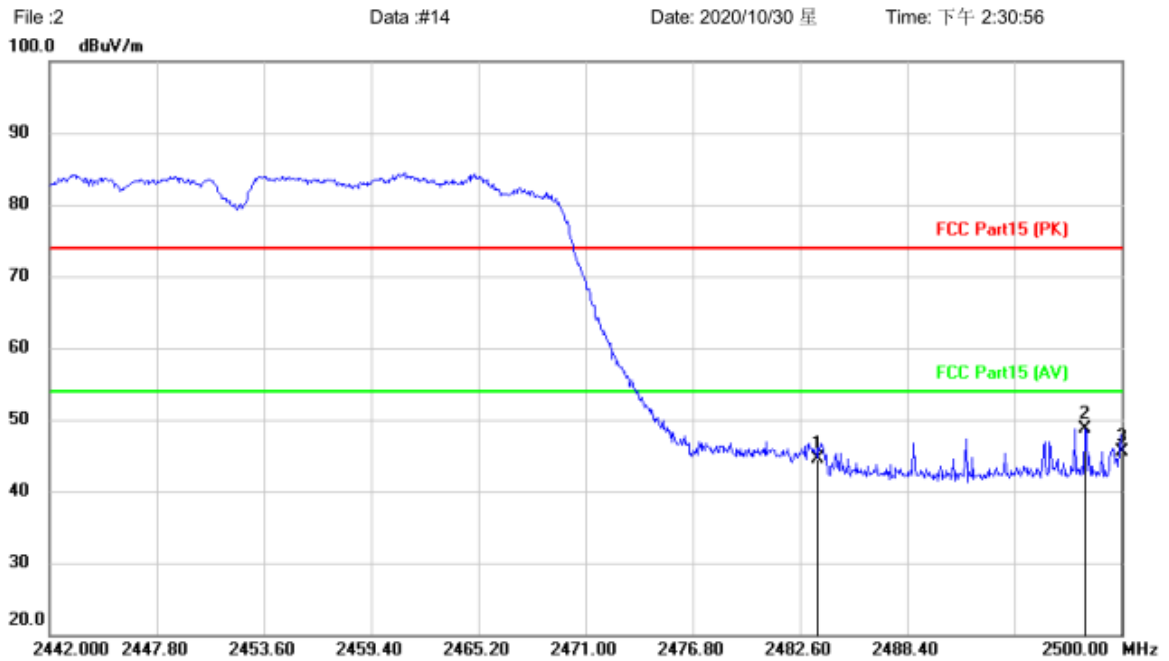
Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature: Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2483.500	56.56	-13.11	43.45	74.00	-30.55	peak		
2		2500.000	55.52	-13.02	42.50	74.00	-31.50	peak		

Radiated Emission Measurement



Site Limit: FCC Part15 (PK) Polarization: **Vertical** Temperature: Power: Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2483.500	58.10	-13.50	44.60	74.00	-29.40	peak		
2	*	2498.028	62.07	-13.43	48.64	74.00	-25.36	peak		
3		2500.000	59.01	-13.42	45.59	74.00	-28.41	peak		

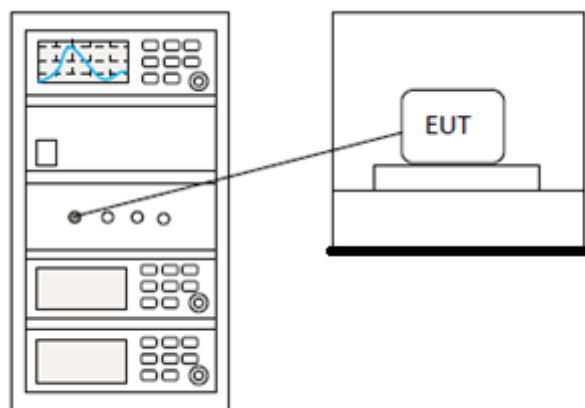
CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	24°C
Humidity	55%

LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix2 For Details

BlueAsia

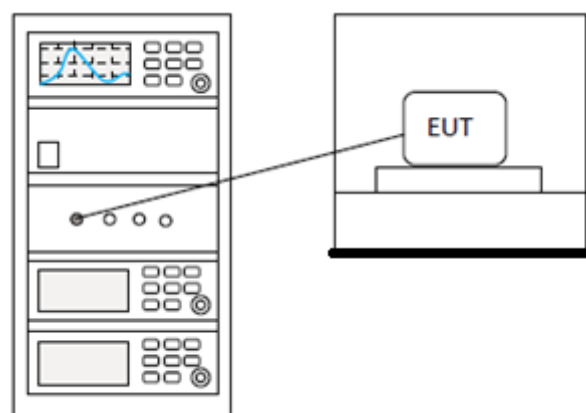
CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	24°C
Humidity	55%

LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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BLOCK DIAGRAM OF TEST SETUP



TEST DATA**Pass: Please Refer To Appendix: Appendix2 For Details**

BlueAsia

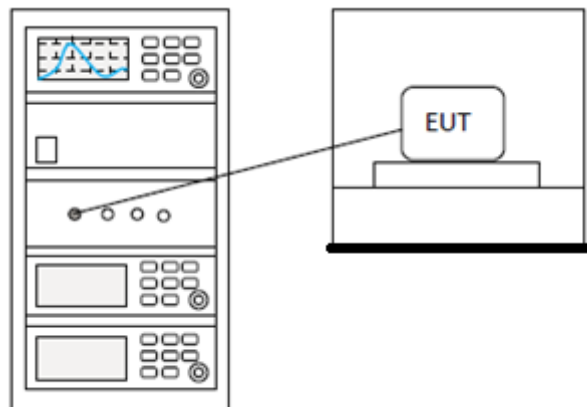
MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	24°C
Humidity	55%

LIMITS

Limit:	≥ 500 kHz
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BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix2 For Details

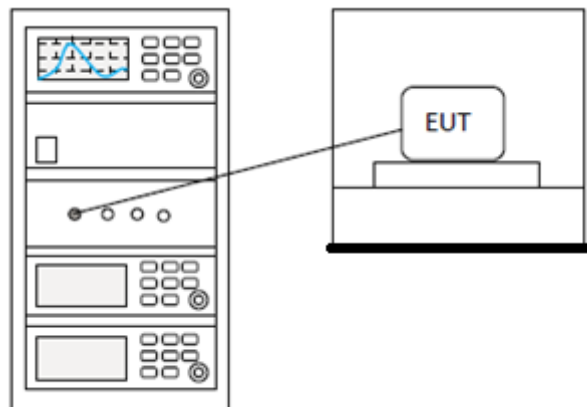
POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	24°C
Humidity	55%

LIMITS

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



TEST DATA

Pass: Please Refer To Appendix: Appendix2 For Details

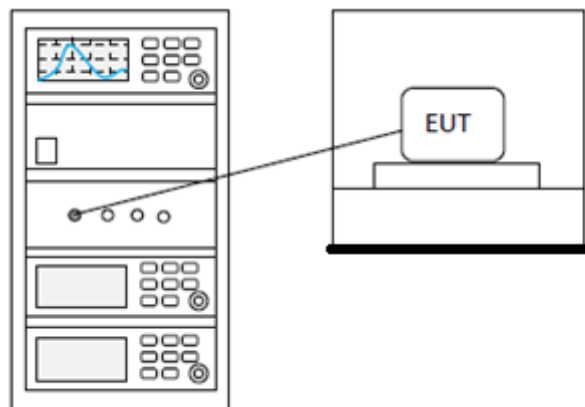
CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	24℃
Humidity	55%

LIMITS

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

BLOCK DIAGRAM OF TEST SETUP



TEST DATA**Pass: Please Refer To Appendix: Appendix2 For Details**

BlueAsia

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

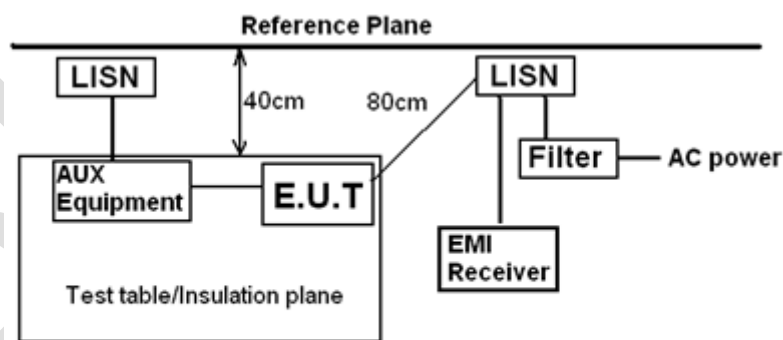
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	24℃
Humidity	53%

LIMITS

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.

BLOCK DIAGRAM OF TEST SETUP



Remark
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m

PROCEDURE

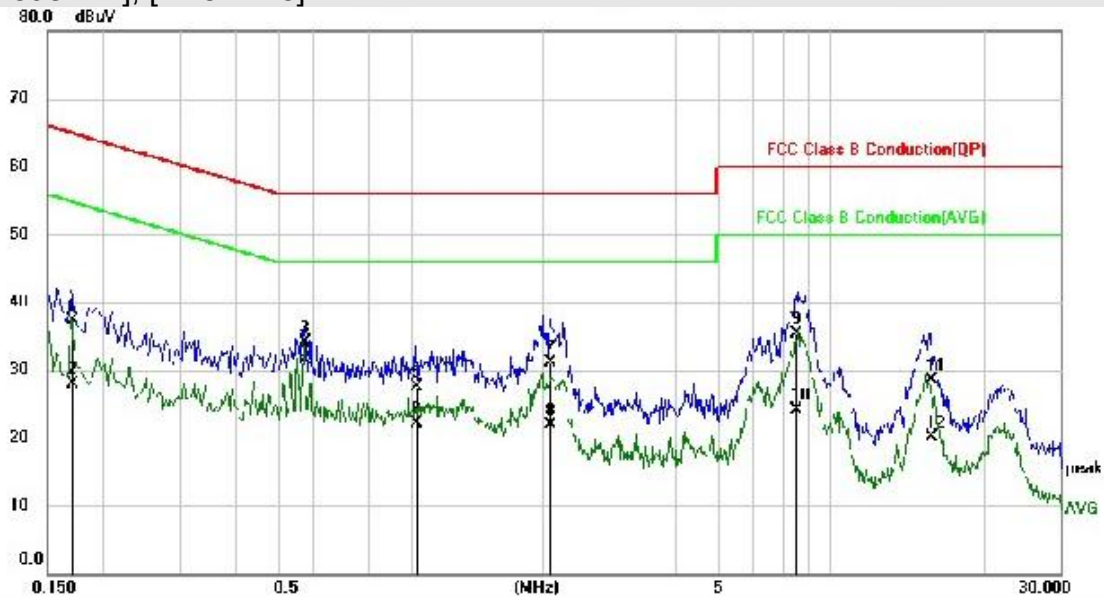
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50?H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to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

- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

TEST DATA

[TestMode: TX]; [Line: Line]

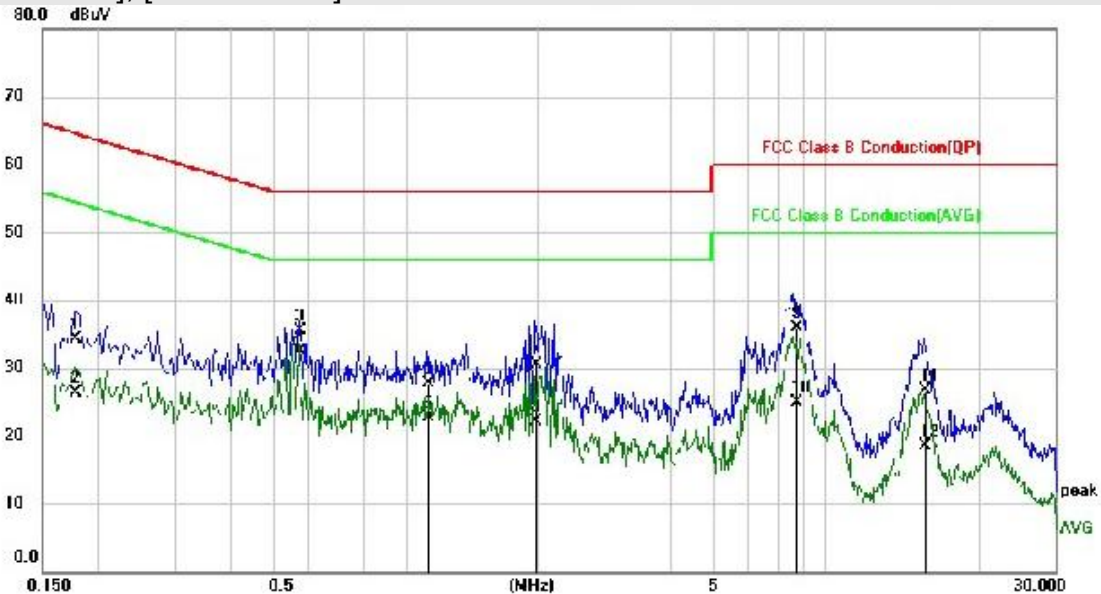


Site: Phase: **L1** Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC120V/60Hz Humidity: 60 %
EUT: UVClean Tabletop Sterilizer
M/N: PT2120C
Mode: WIFI mode
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1		0.1700	27.47	9.90	37.37	64.96	-27.59	QP	
2		0.1700	17.99	9.90	27.89	54.96	-27.07	AVG	
3		0.5740	24.37	9.74	34.11	56.00	-21.89	QP	
4	*	0.5740	21.81	9.74	31.55	46.00	-14.45	AVG	
5		1.0300	17.59	9.87	27.46	56.00	-28.54	QP	
6		1.0300	12.27	9.87	22.14	46.00	-23.86	AVG	
7		2.0700	21.35	9.82	31.17	56.00	-24.83	QP	
8		2.0700	12.06	9.82	21.88	46.00	-24.12	AVG	
9		7.4940	25.42	9.87	35.29	60.00	-24.71	QP	
10		7.4940	14.17	9.87	24.04	50.00	-25.96	AVG	
11		15.1660	18.54	9.98	28.52	60.00	-31.48	QP	
12		15.1660	10.21	9.98	20.19	50.00	-29.81	AVG	

Test Result: Pass

[TestMode: TX]; [Line: Neutral]



Site: Phase: **N** Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC120V/60Hz Humidity: 60 %
EUT: UVClean Tabletop Sterilizer
M/N: PT2120C
Mode: WIFI mode
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1780	24.37	9.88	34.25	64.58	-30.33	QP	
2		0.1780	16.51	9.88	26.39	54.58	-28.19	AVG	
3		0.5740	25.74	9.73	35.47	56.00	-20.53	QP	
4	*	0.5740	22.77	9.73	32.50	46.00	-13.50	AVG	
5		1.1220	17.89	9.81	27.70	56.00	-28.30	QP	
6		1.1220	12.80	9.81	22.61	46.00	-23.39	AVG	
7		1.9780	20.66	9.86	30.52	56.00	-25.48	QP	
8		1.9780	12.21	9.86	22.07	46.00	-23.93	AVG	
9		7.7060	25.95	9.86	35.81	60.00	-24.19	QP	
10		7.7060	15.01	9.86	24.87	50.00	-25.13	AVG	
11		15.1060	16.65	10.02	26.67	60.00	-33.33	QP	
12		15.1060	8.47	10.02	18.49	50.00	-31.51	AVG	

Test Result: Pass

ANTENNA REQUIREMENT

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

CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.0dBi.

