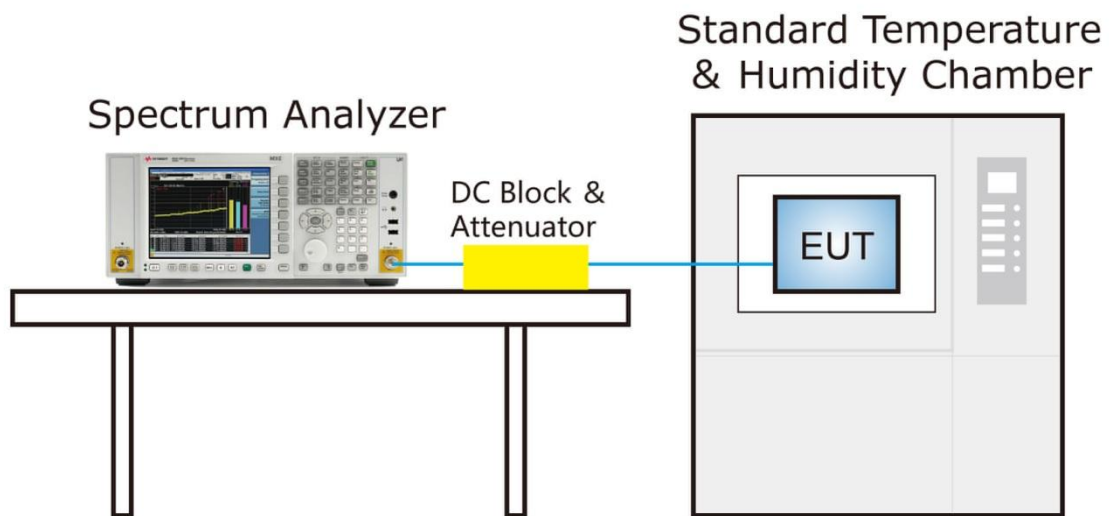


7.6.3. Test Setup



7.6.4. Test Result

Product	Notebook	Temperature	-30 ~ 50°C
Test Engineer	David Lv	Relative Humidity	46 ~ 55%RH
Test Site	TR3	Test Time	2020/02/03
Test Mode	5180MHz (Carrier Mode)		

Voltage (%)	Power (V _{AC})	Temp (°C)	Frequency Tolerance (ppm)
100%	120	- 30	-3.03
		- 20	-2.98
		- 10	-2.94
		0	-2.91
		+ 10	-2.85
		+ 20 (Ref)	-2.81
		+ 30	-2.72
		+ 40	-2.65
		+ 50	-2.54
115%	138	+ 20	-2.75
85%	102	+ 20	-2.79

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

7.7. Radiated Spurious Emission Measurement

7.7.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

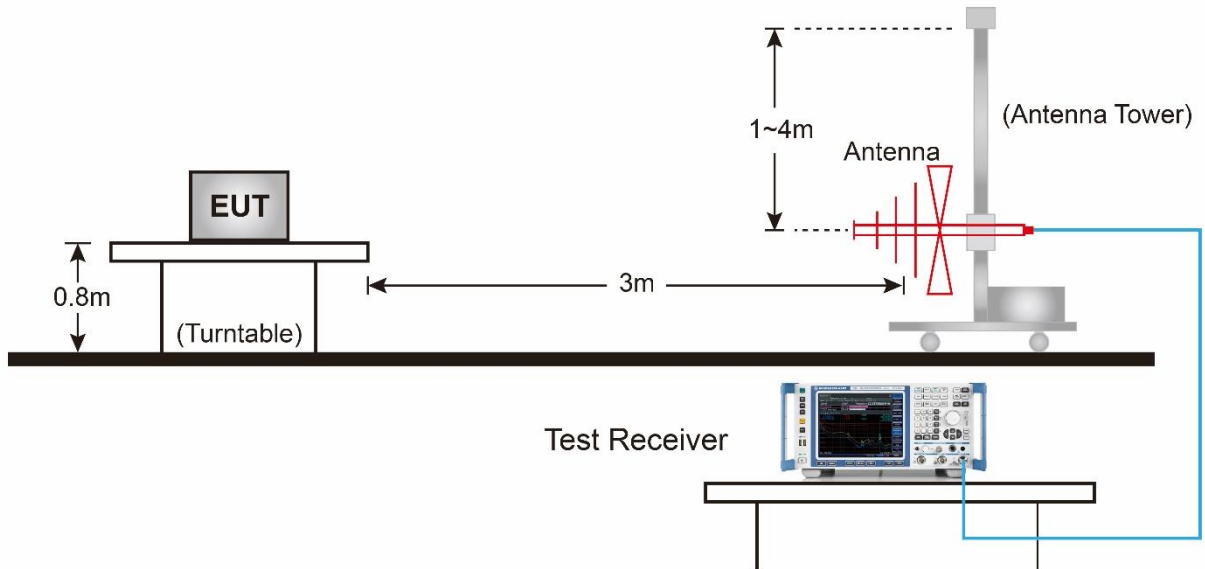
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

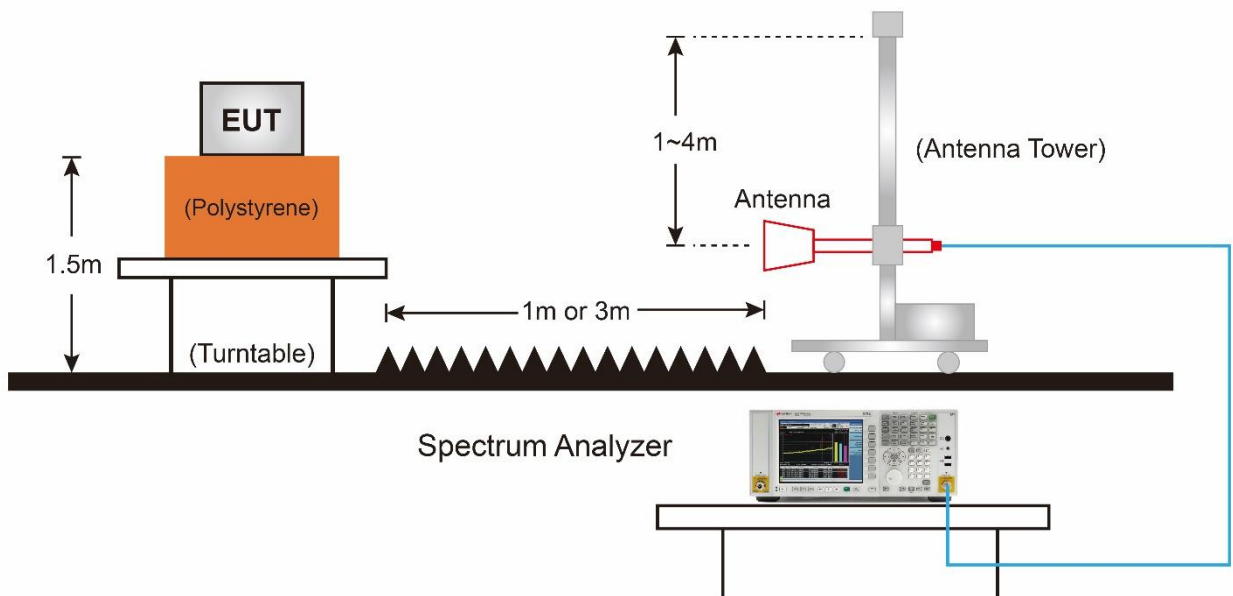
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.7.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



7.7.5. Test Result

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11a	Test Channel	36
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3881.5	33.6	3.0	36.6	74.0	-37.4	Peak	Horizontal
	4850.5	31.8	5.9	37.7	74.0	-36.3	Peak	Horizontal
*	5972.5	33.2	7.7	40.9	68.2	-27.3	Peak	Horizontal
*	6618.5	32.4	9.6	42.0	68.2	-26.2	Peak	Horizontal
	3847.5	33.4	2.8	36.2	74.0	-37.8	Peak	Vertical
	4859.0	30.8	5.9	36.7	74.0	-37.3	Peak	Vertical
*	5751.5	30.0	7.4	37.4	68.2	-30.8	Peak	Vertical
*	6516.5	31.7	9.6	41.3	68.2	-26.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11a	Test Channel	44
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3856.0	33.3	2.8	36.1	74.0	-37.9	Peak	Horizontal
	4731.5	31.2	5.6	36.8	74.0	-37.2	Peak	Horizontal
*	5768.5	30.9	7.5	38.4	68.2	-29.8	Peak	Horizontal
*	6907.5	32.6	10.2	42.8	68.2	-25.4	Peak	Horizontal
	3898.5	33.8	3.1	36.9	74.0	-37.1	Peak	Vertical
	4621.0	33.2	5.2	38.4	74.0	-35.6	Peak	Vertical
*	5989.5	32.6	7.8	40.4	68.2	-27.8	Peak	Vertical
*	7927.5	32.2	12.4	44.6	68.2	-23.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11a	Test Channel	48
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3881.5	33.5	3.0	36.5	74.0	-37.5	Peak	Horizontal
	4876.0	31.3	5.9	37.2	74.0	-36.8	Peak	Horizontal
*	6482.5	31.6	9.3	40.9	68.2	-27.3	Peak	Horizontal
*	9661.5	30.4	16.4	46.8	68.2	-21.4	Peak	Horizontal
	3890.0	33.3	3.0	36.3	74.0	-37.7	Peak	Vertical
	4740.0	31.8	5.7	37.5	74.0	-36.5	Peak	Vertical
*	6542.0	31.4	9.5	40.9	68.2	-27.3	Peak	Vertical
*	9755.0	29.3	16.7	46.0	68.2	-22.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11a	Test Channel	149
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3856.0	33.2	2.8	36.0	74.0	-38.0	Peak	Horizontal
	5071.5	30.8	6.7	37.5	74.0	-36.5	Peak	Horizontal
*	6278.5	31.4	8.5	39.9	68.2	-28.3	Peak	Horizontal
*	8735.0	30.5	14.0	44.5	68.2	-23.7	Peak	Horizontal
	3932.5	33.7	3.1	36.8	74.0	-37.2	Peak	Vertical
	4638.0	32.6	5.2	37.8	74.0	-36.2	Peak	Vertical
*	6057.5	32.6	7.8	40.4	68.2	-27.8	Peak	Vertical
*	8633.0	32.0	13.5	45.5	68.2	-22.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11a	Test Channel	157
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3932.5	33.2	3.1	36.3	74.0	-37.7	Peak	Horizontal
	4850.5	32.8	5.9	38.7	74.0	-35.3	Peak	Horizontal
*	6015.0	31.5	7.9	39.4	68.2	-28.8	Peak	Horizontal
*	8803.0	30.2	14.2	44.4	68.2	-23.8	Peak	Horizontal
	3788.0	33.9	2.7	36.6	74.0	-37.4	Peak	Vertical
	4740.0	32.2	5.7	37.9	74.0	-36.1	Peak	Vertical
*	6533.5	31.4	9.5	40.9	68.2	-27.3	Peak	Vertical
*	7910.5	30.2	12.2	42.4	68.2	-25.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11a	Test Channel	165
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3873.0	33.3	3.0	36.3	74.0	-37.7	Peak	Horizontal
	4859.0	30.0	5.9	35.9	74.0	-38.1	Peak	Horizontal
*	6168.0	31.9	8.3	40.2	68.2	-28.0	Peak	Horizontal
*	7876.5	32.1	12.1	44.2	68.2	-24.0	Peak	Horizontal
	3881.5	33.1	3.0	36.1	74.0	-37.9	Peak	Vertical
	4638.0	32.2	5.2	37.4	74.0	-36.6	Peak	Vertical
*	5998.0	32.2	7.9	40.1	68.2	-28.1	Peak	Vertical
*	7766.0	33.0	11.7	44.7	68.2	-23.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT20	Test Channel	36
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3881.5	33.3	3.0	36.3	74.0	-37.7	Peak	Horizontal
	5071.5	31.7	6.7	38.4	74.0	-35.6	Peak	Horizontal
*	6287.0	31.7	8.4	40.1	68.2	-28.1	Peak	Horizontal
*	7077.5	32.0	11.2	43.2	68.2	-25.0	Peak	Horizontal
	3898.5	35.4	3.1	38.5	74.0	-35.5	Peak	Vertical
	4621.0	33.0	5.2	38.2	74.0	-35.8	Peak	Vertical
*	5879.0	31.7	7.6	39.3	68.2	-28.9	Peak	Vertical
*	6907.5	34.4	10.2	44.6	68.2	-23.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT20	Test Channel	44
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3830.5	33.7	2.9	36.6	74.0	-37.4	Peak	Horizontal
	4833.5	31.6	6.0	37.6	74.0	-36.4	Peak	Horizontal
*	5930.0	32.5	7.8	40.3	68.2	-27.9	Peak	Horizontal
*	7077.5	32.6	11.2	43.8	68.2	-24.4	Peak	Horizontal
	3907.0	33.6	3.1	36.7	74.0	-37.3	Peak	Vertical
	4621.0	32.2	5.2	37.4	74.0	-36.6	Peak	Vertical
*	6958.5	35.0	10.5	45.5	68.2	-22.7	Peak	Vertical
*	7961.5	32.7	12.4	45.1	68.2	-23.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT20	Test Channel	48
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3907.0	33.9	3.1	37.0	74.0	-37.0	Peak	Horizontal
	4799.5	31.9	5.8	37.7	74.0	-36.3	Peak	Horizontal
*	5930.0	31.2	7.8	39.0	68.2	-29.2	Peak	Horizontal
*	7859.5	31.8	12.0	43.8	68.2	-24.4	Peak	Horizontal
	3890.0	33.2	3.0	36.2	74.0	-37.8	Peak	Vertical
	4621.0	31.7	5.2	36.9	74.0	-37.1	Peak	Vertical
*	6083.0	32.1	8.1	40.2	68.2	-28.0	Peak	Vertical
*	6984.0	35.0	10.6	45.6	68.2	-22.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT20	Test Channel	149
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3941.0	33.3	3.2	36.5	74.0	-37.5	Peak	Horizontal
	4621.0	32.1	5.2	37.3	74.0	-36.7	Peak	Horizontal
*	6635.5	32.0	9.6	41.6	68.2	-26.6	Peak	Horizontal
*	7052.0	32.5	10.9	43.4	68.2	-24.8	Peak	Horizontal
	3873.0	34.0	3.0	37.0	74.0	-37.0	Peak	Vertical
	4893.0	32.0	6.0	38.0	74.0	-36.0	Peak	Vertical
*	6525.0	30.8	9.6	40.4	68.2	-27.8	Peak	Vertical
*	7077.5	33.2	11.2	44.4	68.2	-23.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT20	Test Channel	157
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3898.5	33.4	3.1	36.5	74.0	-37.5	Peak	Horizontal
	4629.5	33.0	5.2	38.2	74.0	-35.8	Peak	Horizontal
*	5989.5	31.6	7.8	39.4	68.2	-28.8	Peak	Horizontal
*	6958.5	32.6	10.5	43.1	68.2	-25.1	Peak	Horizontal
	3771.0	33.5	2.8	36.3	74.0	-37.7	Peak	Vertical
	4621.0	32.1	5.2	37.3	74.0	-36.7	Peak	Vertical
*	6083.0	32.4	8.1	40.5	68.2	-27.7	Peak	Vertical
*	6916.0	32.5	10.3	42.8	68.2	-25.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT20	Test Channel	165
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3890.0	33.6	3.0	36.6	74.0	-37.4	Peak	Horizontal
	5131.0	32.0	6.9	38.9	74.0	-35.1	Peak	Horizontal
*	6049.0	31.8	7.7	39.5	68.2	-28.7	Peak	Horizontal
*	6958.5	32.6	10.5	43.1	68.2	-25.1	Peak	Horizontal
	3856.0	34.1	2.8	36.9	74.0	-37.1	Peak	Vertical
	4629.5	32.2	5.2	37.4	74.0	-36.6	Peak	Vertical
*	6074.5	31.5	8.0	39.5	68.2	-28.7	Peak	Vertical
*	6873.5	33.4	10.1	43.5	68.2	-24.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT40	Test Channel	38
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3890.0	34.0	3.0	37.0	74.0	-37.0	Peak	Horizontal
	4442.5	31.6	4.5	36.1	68.2	-32.1	Peak	Horizontal
*	6533.5	31.4	9.5	40.9	68.2	-27.3	Peak	Horizontal
*	7026.5	32.8	10.9	43.7	68.2	-24.5	Peak	Horizontal
	3873.0	33.4	3.0	36.4	74.0	-37.6	Peak	Vertical
	4850.5	31.2	5.9	37.1	74.0	-36.9	Peak	Vertical
*	6508.0	31.2	9.7	40.9	68.2	-27.3	Peak	Vertical
*	6916.0	34.1	10.3	44.4	68.2	-23.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT40	Test Channel	46
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3762.5	34.1	2.7	36.8	74.0	-37.2	Peak	Horizontal
	4986.5	31.6	6.4	38.0	74.0	-36.0	Peak	Horizontal
*	6074.5	32.0	8.0	40.0	68.2	-28.2	Peak	Horizontal
*	6975.5	34.0	10.5	44.5	68.2	-23.7	Peak	Horizontal
	4119.5	32.9	3.5	36.4	74.0	-37.6	Peak	Vertical
	4757.0	31.4	5.8	37.2	74.0	-36.8	Peak	Vertical
*	6040.5	31.6	7.8	39.4	68.2	-28.8	Peak	Vertical
*	6975.5	34.0	10.5	44.5	68.2	-23.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT40	Test Channel	151
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3958.0	33.3	3.2	36.5	74.0	-37.5	Peak	Horizontal
	4638.0	33.2	5.2	38.4	74.0	-35.6	Peak	Horizontal
*	6839.5	33.4	10.0	43.4	68.2	-24.8	Peak	Horizontal
*	7961.5	32.5	12.4	44.9	68.2	-23.3	Peak	Horizontal
	3754.0	33.9	2.6	36.5	74.0	-37.5	Peak	Vertical
	4646.5	31.9	5.3	37.2	74.0	-36.8	Peak	Vertical
*	6083.0	31.6	8.1	39.7	68.2	-28.5	Peak	Vertical
*	7936.0	31.6	12.5	44.1	68.2	-24.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11n-HT40	Test Channel	159
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3873.0	33.4	3.0	36.4	74.0	-37.6	Peak	Horizontal
	4969.5	31.4	6.3	37.7	74.0	-36.3	Peak	Horizontal
*	6533.5	32.2	9.5	41.7	68.2	-26.5	Peak	Horizontal
*	7859.5	32.3	12.0	44.3	68.2	-23.9	Peak	Horizontal
	3771.0	33.0	2.8	35.8	74.0	-38.2	Peak	Vertical
	4859.0	31.4	5.9	37.3	74.0	-36.7	Peak	Vertical
*	6227.5	32.0	8.3	40.3	68.2	-27.9	Peak	Vertical
*	6984.0	32.8	10.6	43.4	68.2	-24.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT20	Test Channel	36
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3881.5	33.5	3.0	36.5	74.0	-37.5	Peak	Horizontal
	4842.0	32.4	5.9	38.3	74.0	-35.7	Peak	Horizontal
*	6074.5	30.3	8.0	38.3	68.2	-29.9	Peak	Horizontal
*	7086.0	32.8	11.3	44.1	68.2	-24.1	Peak	Horizontal
	3881.5	33.1	3.0	36.1	74.0	-37.9	Peak	Vertical
	4646.5	31.8	5.3	37.1	74.0	-36.9	Peak	Vertical
*	5896.0	31.8	7.7	39.5	68.2	-28.7	Peak	Vertical
*	6907.5	34.2	10.2	44.4	68.2	-23.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT20	Test Channel	44
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3975.0	32.7	3.3	36.0	74.0	-38.0	Peak	Horizontal
	4748.5	30.3	5.7	36.0	74.0	-38.0	Peak	Horizontal
*	5819.5	32.3	7.6	39.9	68.2	-28.3	Peak	Horizontal
*	7961.5	32.2	12.4	44.6	68.2	-23.6	Peak	Horizontal
	3830.5	32.9	2.9	35.8	74.0	-38.2	Peak	Vertical
	4799.5	31.3	5.8	37.1	74.0	-36.9	Peak	Vertical
*	6533.5	31.7	9.5	41.2	68.2	-27.0	Peak	Vertical
*	7103.0	32.4	11.3	43.7	68.2	-24.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT20	Test Channel	48
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4017.5	33.4	3.3	36.7	74.0	-37.3	Peak	Horizontal
	4740.0	31.5	5.7	37.2	74.0	-36.8	Peak	Horizontal
*	5998.0	31.1	7.9	39.0	68.2	-29.2	Peak	Horizontal
*	7086.0	33.5	11.3	44.8	68.2	-23.4	Peak	Horizontal
	3992.0	33.5	3.4	36.9	74.0	-37.1	Peak	Vertical
	4748.5	30.5	5.7	36.2	74.0	-37.8	Peak	Vertical
*	5998.0	32.3	7.9	40.2	68.2	-28.0	Peak	Vertical
*	6984.0	35.2	10.6	45.8	68.2	-22.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT20	Test Channel	149
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3873.0	34.2	3.0	37.2	74.0	-36.8	Peak	Horizontal
	4952.5	32.3	6.2	38.5	74.0	-35.5	Peak	Horizontal
*	5632.5	32.0	7.0	39.0	68.2	-29.2	Peak	Horizontal
*	7936.0	31.7	12.5	44.2	68.2	-24.0	Peak	Horizontal
	3779.5	33.4	2.8	36.2	74.0	-37.8	Peak	Vertical
	4833.5	30.9	6.0	36.9	74.0	-37.1	Peak	Vertical
*	6049.0	31.5	7.7	39.2	68.2	-29.0	Peak	Vertical
*	7035.0	32.8	10.9	43.7	68.2	-24.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT20	Test Channel	157
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3762.5	33.6	2.7	36.3	74.0	-37.7	Peak	Horizontal
	4663.5	32.1	5.4	37.5	74.0	-36.5	Peak	Horizontal
*	5267.0	30.9	6.6	37.5	68.2	-30.7	Peak	Horizontal
*	6584.5	29.9	9.8	39.7	68.2	-28.5	Peak	Horizontal
	3898.5	33.7	3.1	36.8	74.0	-37.2	Peak	Vertical
	4714.5	30.4	5.5	35.9	74.0	-38.1	Peak	Vertical
*	5666.5	30.9	7.3	38.2	68.2	-30.0	Peak	Vertical
*	6890.5	32.5	10.0	42.5	68.2	-25.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT20	Test Channel	165
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3771.0	33.4	2.8	36.2	74.0	-37.8	Peak	Horizontal
	4621.0	31.7	5.2	36.9	74.0	-37.1	Peak	Horizontal
*	5998.0	31.9	7.9	39.8	68.2	-28.4	Peak	Horizontal
*	7885.0	33.1	12.1	45.2	68.2	-23.0	Peak	Horizontal
	3839.0	33.5	2.9	36.4	74.0	-37.6	Peak	Vertical
	4731.5	32.4	5.6	38.0	74.0	-36.0	Peak	Vertical
*	5989.5	32.3	7.8	40.1	68.2	-28.1	Peak	Vertical
*	6950.0	32.3	10.5	42.8	68.2	-25.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT40	Test Channel	38
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3779.5	33.0	2.8	35.8	74.0	-38.2	Peak	Horizontal
	4612.5	32.0	5.1	37.1	74.0	-36.9	Peak	Horizontal
*	6321.0	31.6	8.5	40.1	68.2	-28.1	Peak	Horizontal
*	7162.5	32.9	11.5	44.4	68.2	-23.8	Peak	Horizontal
	3890.0	33.8	3.0	36.8	74.0	-37.2	Peak	Vertical
	4774.0	31.0	5.6	36.6	74.0	-37.4	Peak	Vertical
*	6499.5	33.0	9.5	42.5	68.2	-25.7	Peak	Vertical
*	6916.0	34.4	10.3	44.7	68.2	-23.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT40	Test Channel	46
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3983.5	33.2	3.3	36.5	74.0	-37.5	Peak	Horizontal
	4765.5	31.4	5.7	37.1	74.0	-36.9	Peak	Horizontal
*	6100.0	32.4	8.1	40.5	68.2	-27.7	Peak	Horizontal
*	7953.0	32.3	12.5	44.8	68.2	-23.4	Peak	Horizontal
	3762.5	33.9	2.7	36.6	74.0	-37.4	Peak	Vertical
	4629.5	33.1	5.2	38.3	74.0	-35.7	Peak	Vertical
*	5972.5	31.5	7.7	39.2	68.2	-29.0	Peak	Vertical
*	6975.5	34.4	10.5	44.9	68.2	-23.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT40	Test Channel	151
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3907.0	33.6	3.1	36.7	74.0	-37.3	Peak	Horizontal
	4638.0	33.9	5.2	39.1	74.0	-34.9	Peak	Horizontal
*	5896.0	30.8	7.7	38.5	68.2	-29.7	Peak	Horizontal
*	7876.5	31.5	12.1	43.6	68.2	-24.6	Peak	Horizontal
	3873.0	34.2	3.0	37.2	74.0	-36.8	Peak	Vertical
	4859.0	30.9	5.9	36.8	74.0	-37.2	Peak	Vertical
*	6049.0	32.0	7.7	39.7	68.2	-28.5	Peak	Vertical
*	7077.5	32.9	11.2	44.1	68.2	-24.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	David Lv	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode	802.11ac-VHT40	Test Channel	159
Note	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3779.5	34.0	2.8	36.8	74.0	-37.2	Peak	Horizontal
	4621.0	32.2	5.2	37.4	74.0	-36.6	Peak	Horizontal
*	5267.0	30.7	6.6	37.3	68.2	-30.9	Peak	Horizontal
*	6491.0	31.4	9.4	40.8	68.2	-27.4	Peak	Horizontal
	3779.5	34.0	2.8	36.8	74.0	-37.2	Peak	Vertical
	4842.0	31.2	5.9	37.1	74.0	-36.9	Peak	Vertical
*	6168.0	31.4	8.3	39.7	68.2	-28.5	Peak	Vertical
*	6950.0	33.0	10.5	43.5	68.2	-24.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	Messiah Li	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode:	802.11ac-VHT80	Test Channel:	42
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3779.5	34.0	2.8	36.8	74.0	-37.2	Peak	Horizontal
	4621.0	32.2	5.2	37.4	74.0	-36.6	Peak	Horizontal
*	5216.0	31.3	6.5	37.8	68.2	-30.4	Peak	Horizontal
*	5938.5	31.6	7.7	39.3	68.2	-28.9	Peak	Horizontal
	3830.5	33.5	2.9	36.4	74.0	-37.6	Peak	Vertical
	4621.0	32.6	5.2	37.8	74.0	-36.2	Peak	Vertical
*	5964.0	32.3	7.6	39.9	68.2	-28.3	Peak	Vertical
*	6950.0	34.6	10.5	45.1	68.2	-23.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Notebook	Temperature	26°C
Test Engineer	Messiah Li	Relative Humidity	57 %
Test Site	AC1	Test Date	2020/02/29
Test Mode:	802.11ac-VHT80	Test Channel:	155
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3898.5	33.5	3.1	36.6	74.0	-37.4	Peak	Horizontal
	4723.0	30.5	5.5	36.0	74.0	-38.0	Peak	Horizontal
*	5811.0	29.5	7.5	37.0	68.2	-31.2	Peak	Horizontal
*	7859.5	33.0	12.0	45.0	68.2	-23.2	Peak	Horizontal
	3796.5	34.1	2.7	36.8	74.0	-37.2	Peak	Vertical
	4289.5	32.1	4.0	36.1	74.0	-37.9	Peak	Vertical
*	5292.5	31.2	6.5	37.7	68.2	-30.5	Peak	Vertical
*	6270.0	29.2	8.5	37.7	68.2	-30.5	Peak	Vertical

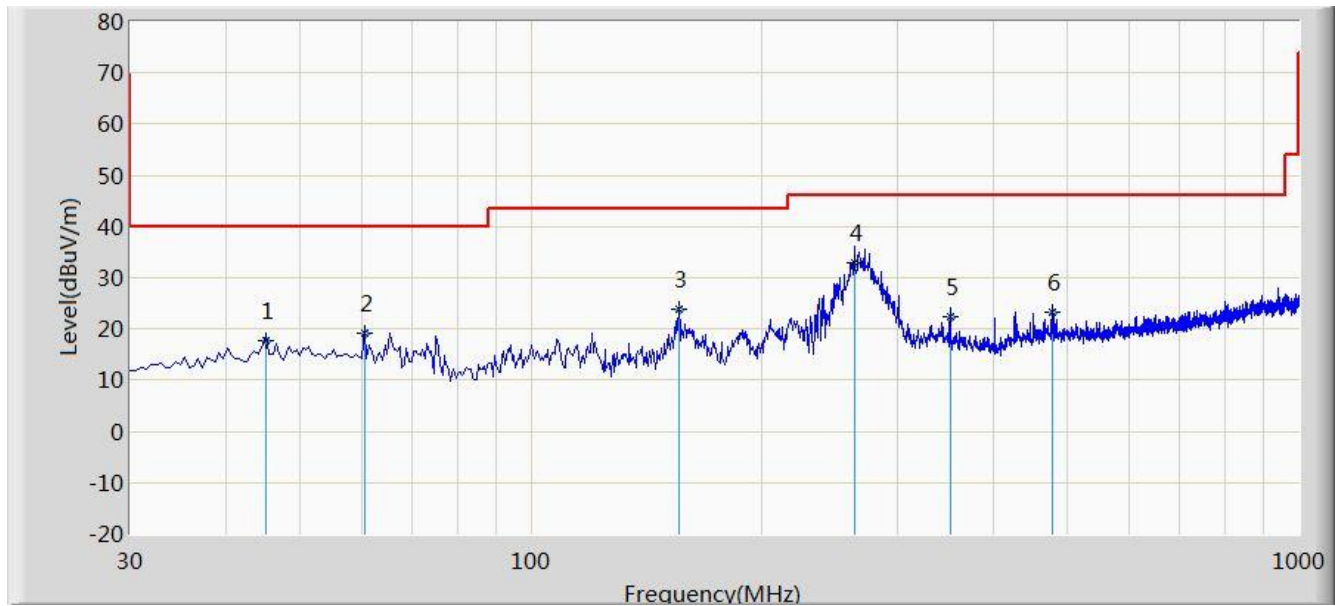
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2020/02/03 - 18:59
Limit: FCC_Part15.209_RE(3m)	Engineer: David Lv
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5180MHz	



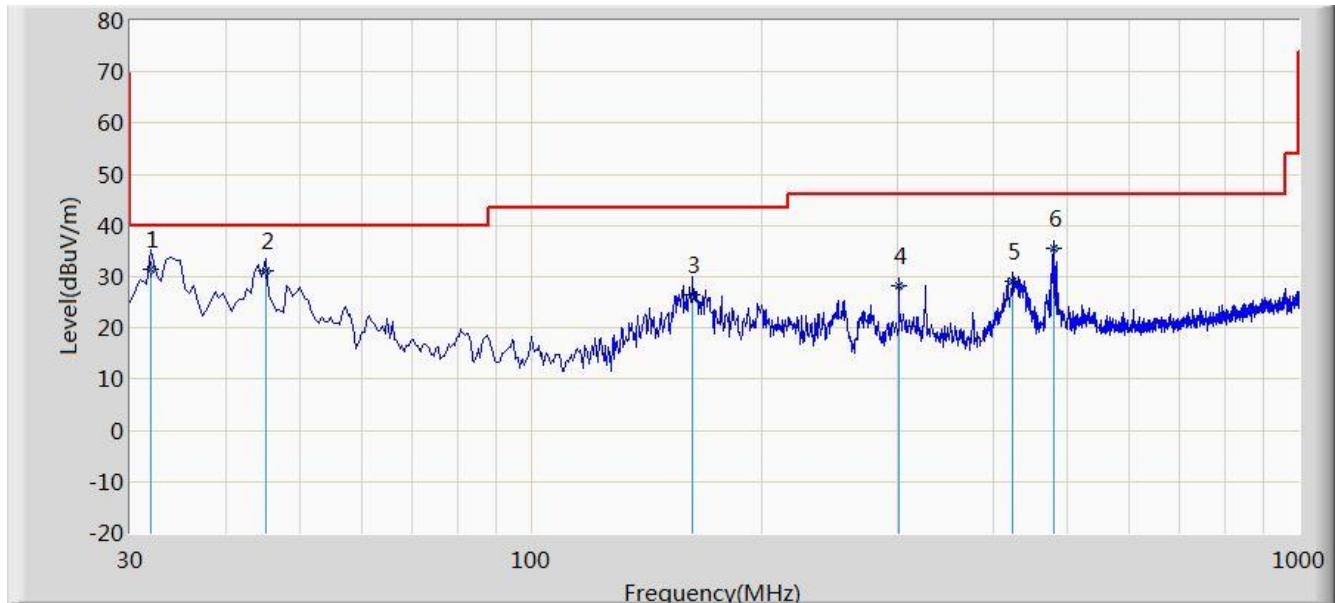
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			45.035	17.746	3.230	-22.254	40.000	14.516	QP
2			60.555	19.164	5.960	-20.836	40.000	13.205	QP
3			155.615	23.788	14.340	-19.712	43.500	9.448	QP
4		*	263.770	32.833	18.540	-13.167	46.000	14.292	QP
5			351.070	22.466	5.650	-23.534	46.000	16.816	QP
6			477.170	23.309	4.540	-22.691	46.000	18.769	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

Site: AC1	Time: 2020/02/03 - 19:06
Limit: FCC_Part15.209_RE(3m)	Engineer: David Lv
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: Notebook	Engineer: David Lv
Test Mode: Transmit by 802.11a at channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	31.940	31.335	20.230	-8.665	40.000	11.105	QP
2			45.035	31.046	16.530	-8.954	40.000	14.516	QP
3			162.405	26.562	16.760	-16.938	43.500	9.802	QP
4			301.115	28.110	13.230	-17.890	46.000	14.879	QP
5			423.820	29.173	11.320	-16.827	46.000	17.854	QP
6			480.080	35.664	16.760	-10.336	46.000	18.905	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

7.8. Radiated Restricted Band Edge Measurement

7.8.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

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

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.8.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.8.3.Test Setting

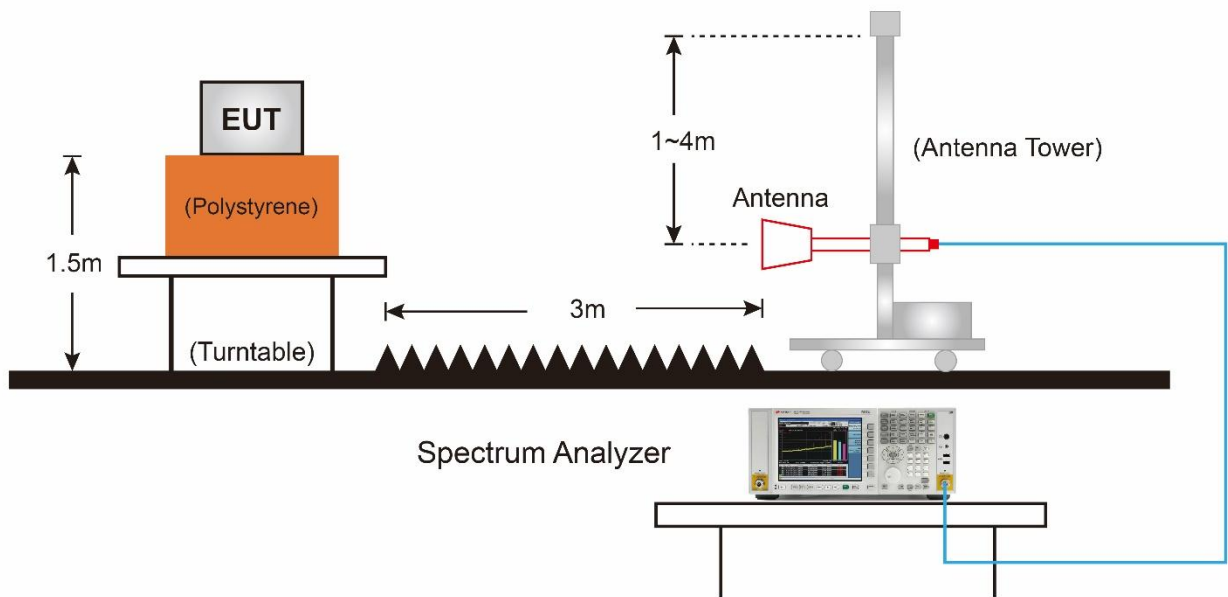
Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

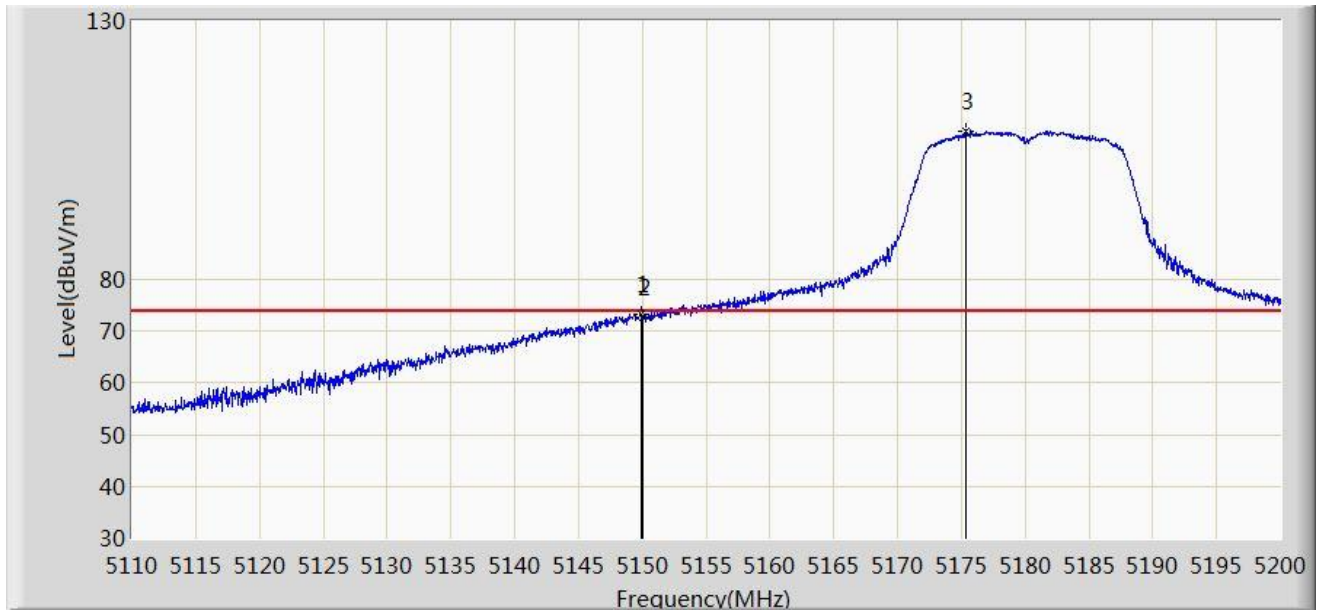
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = If the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$.
4. Detector = Peak
5. Sweep time = auto
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle.

7.8.4. Test Setup



7.8.5.Test Result

Site: AC2	Time: 2020/02/03 - 15:18
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

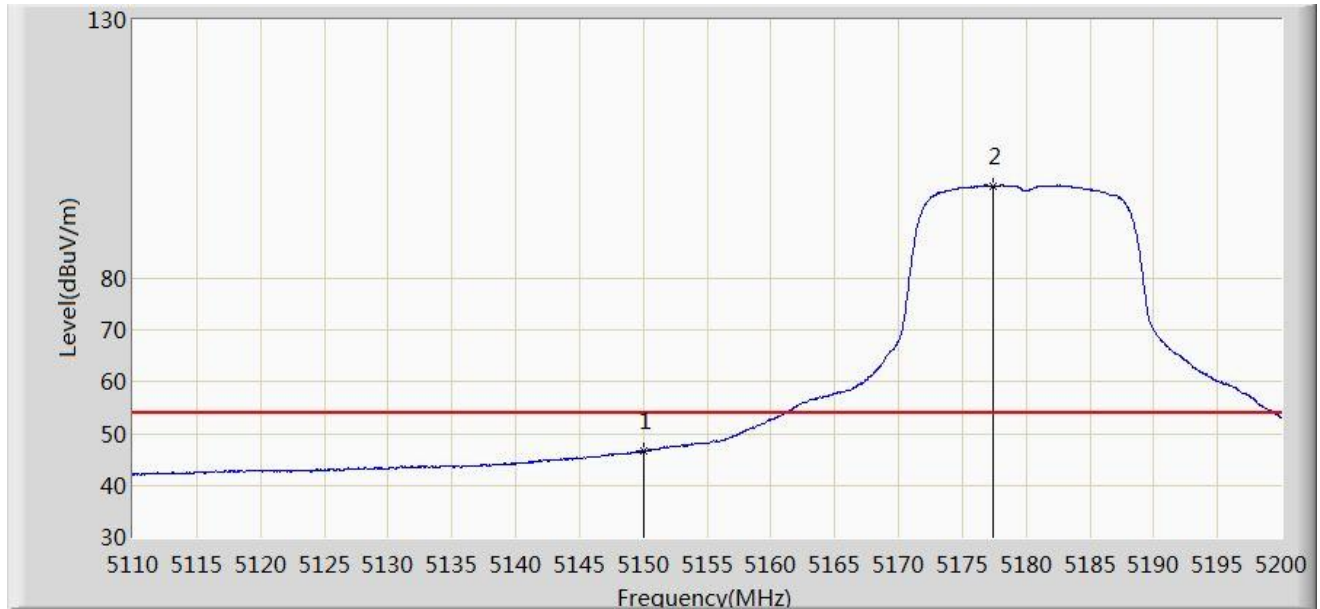


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.960	73.336	68.894	-0.664	74.000	4.442	PK
2			5150.000	72.585	68.143	-1.415	74.000	4.442	PK
3		*	5175.340	108.739	104.214	N/A	N/A	4.525	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:24
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

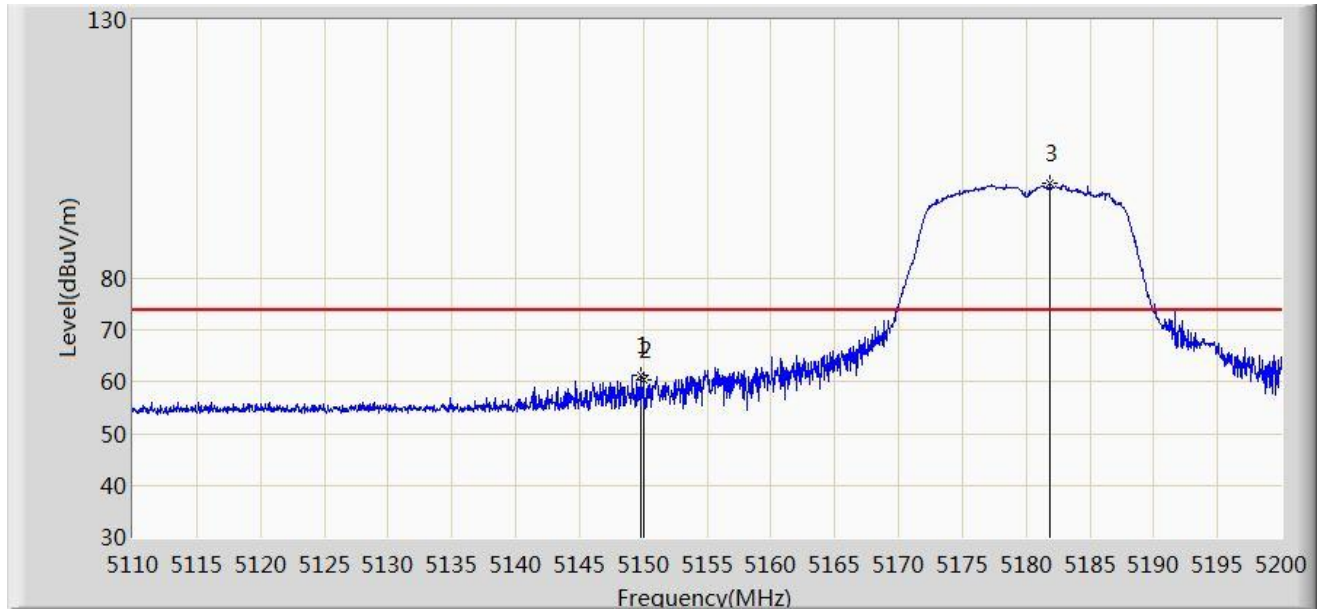


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	46.686	42.244	-7.314	54.000	4.442	AV
2		*	5177.410	97.963	93.456	N/A	N/A	4.507	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:32
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

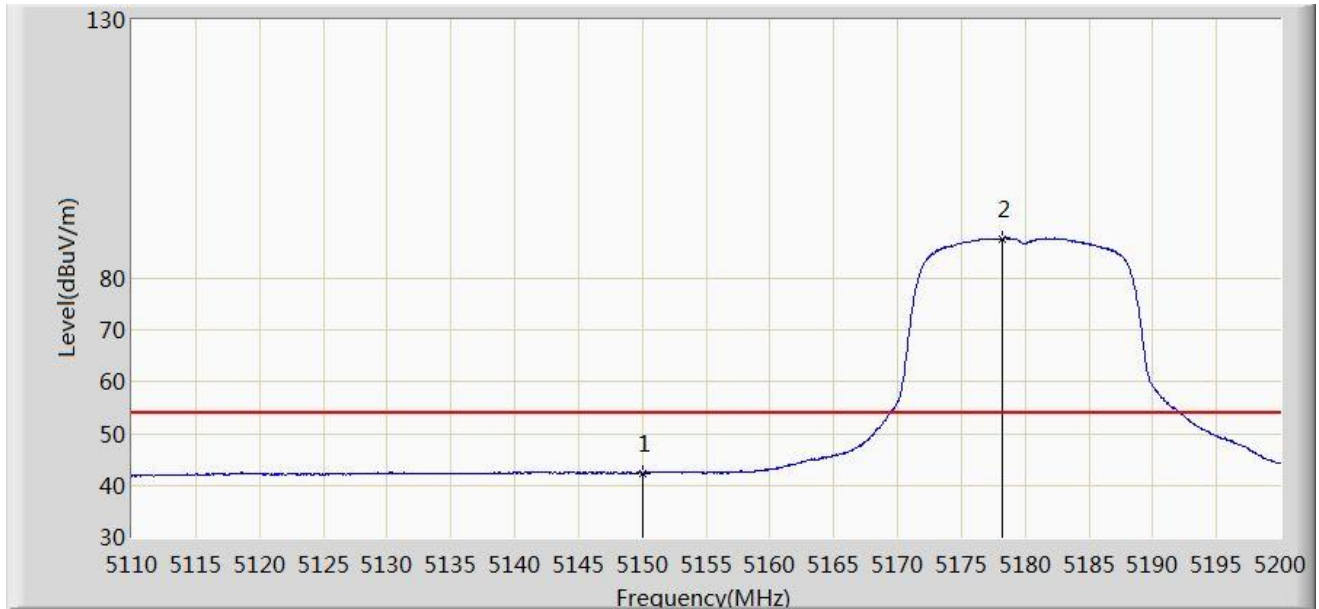


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.780	61.214	56.774	-12.786	74.000	4.440	PK
2			5150.000	60.456	56.014	-13.544	74.000	4.442	PK
3		*	5181.910	98.335	93.866	N/A	N/A	4.469	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:35
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

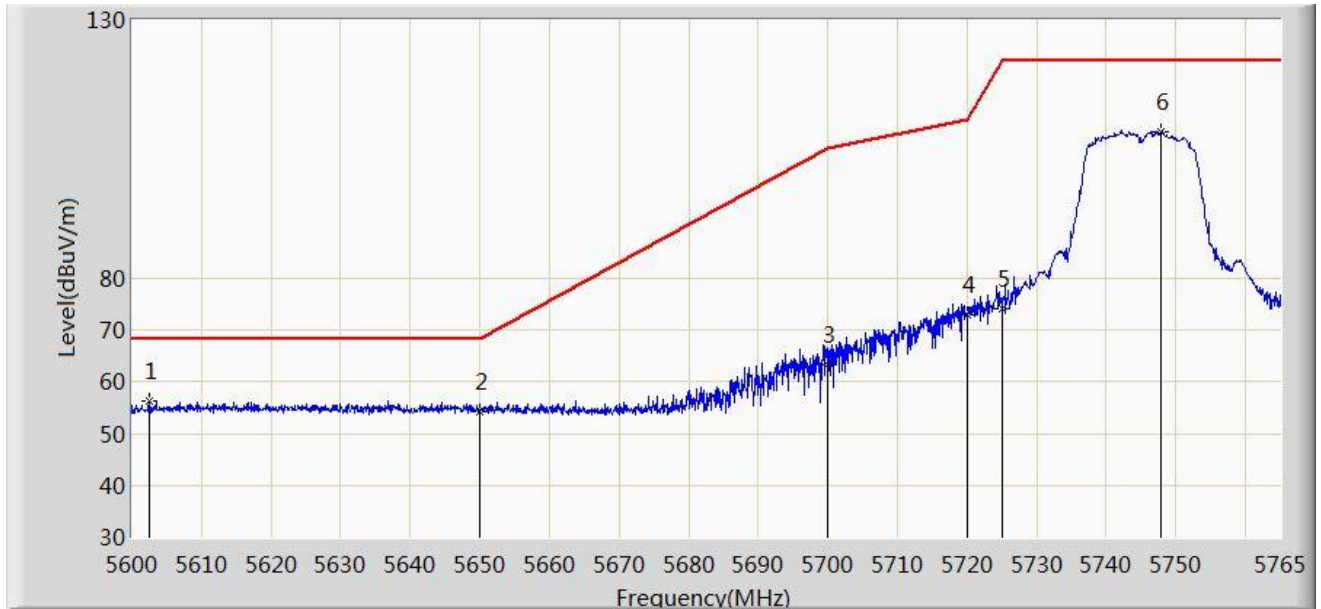


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	42.412	37.970	-11.588	54.000	4.442	AV
2		*	5178.265	87.718	83.218	N/A	N/A	4.499	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:37
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

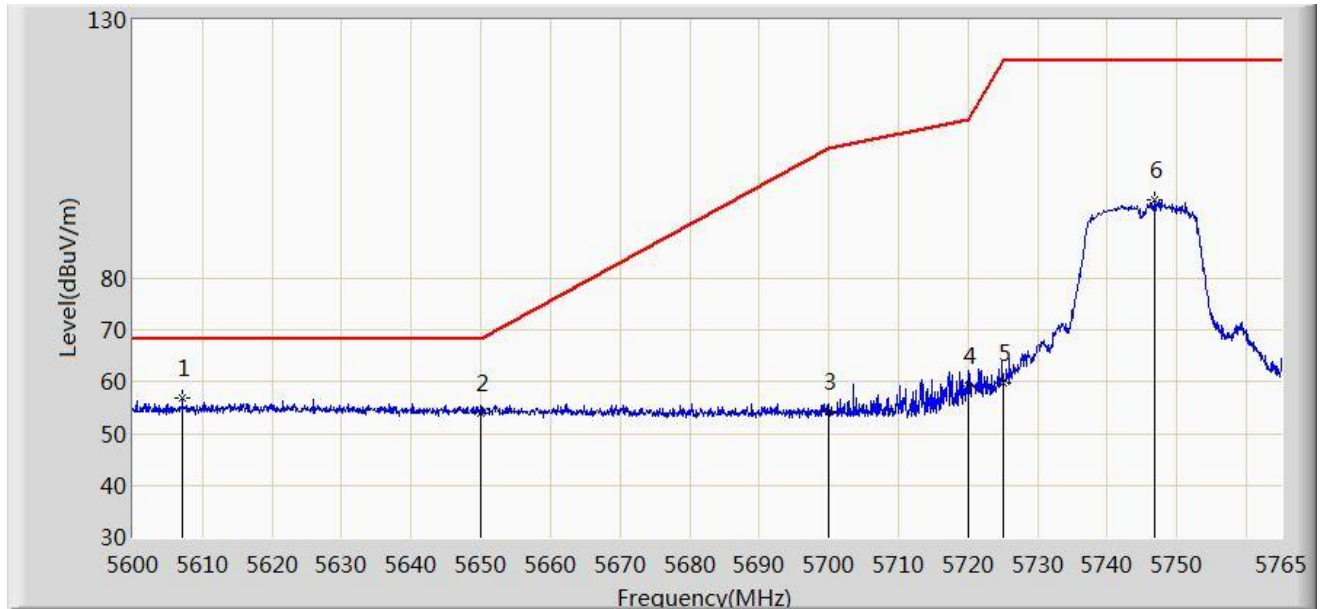


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5602.475	56.258	51.375	-11.942	68.200	4.883	PK
2			5650.000	54.391	49.055	-13.809	68.200	5.336	PK
3			5700.000	63.221	57.903	-41.979	105.200	5.318	PK
4			5720.000	72.989	67.515	-37.811	110.800	5.474	PK
5			5725.000	74.291	68.813	-47.909	122.200	5.478	PK
6			5747.840	108.433	102.770	N/A	N/A	5.663	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:39
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

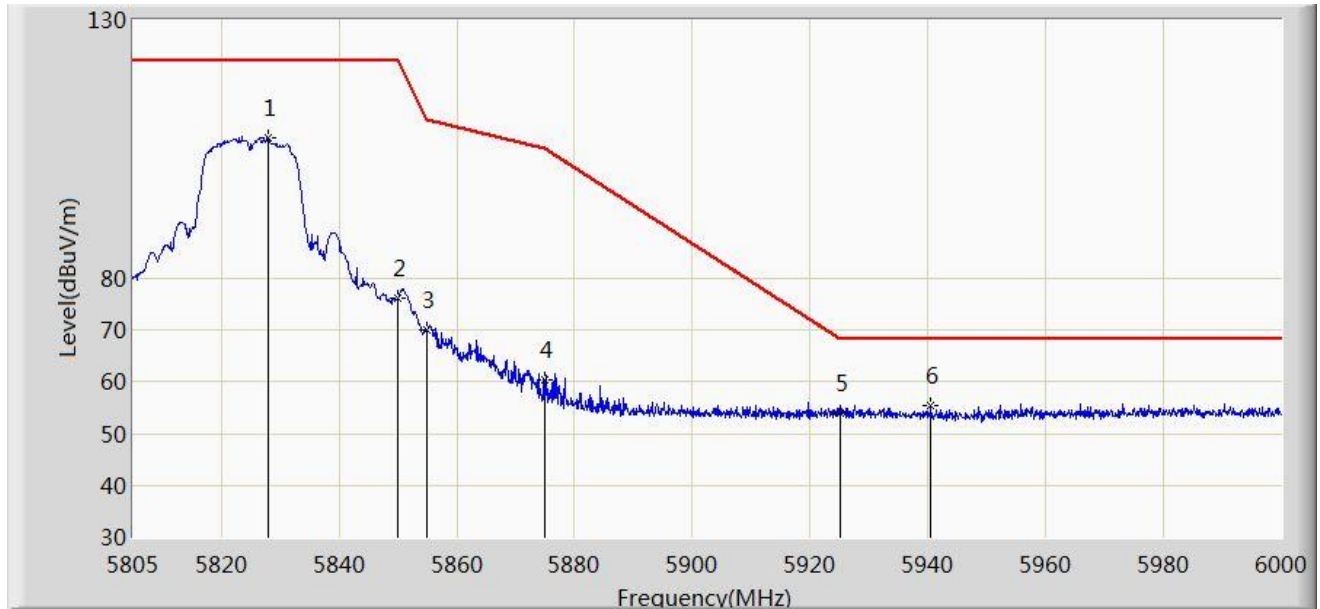


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5607.095	56.783	51.849	-11.417	68.200	4.935	PK
2			5650.000	54.021	48.685	-14.179	68.200	5.336	PK
3			5700.000	54.189	48.871	-51.011	105.200	5.318	PK
4			5720.000	59.252	53.778	-51.548	110.800	5.474	PK
5			5725.000	59.925	54.447	-62.275	122.200	5.478	PK
6			5746.768	95.195	89.553	N/A	N/A	5.642	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:41
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz	

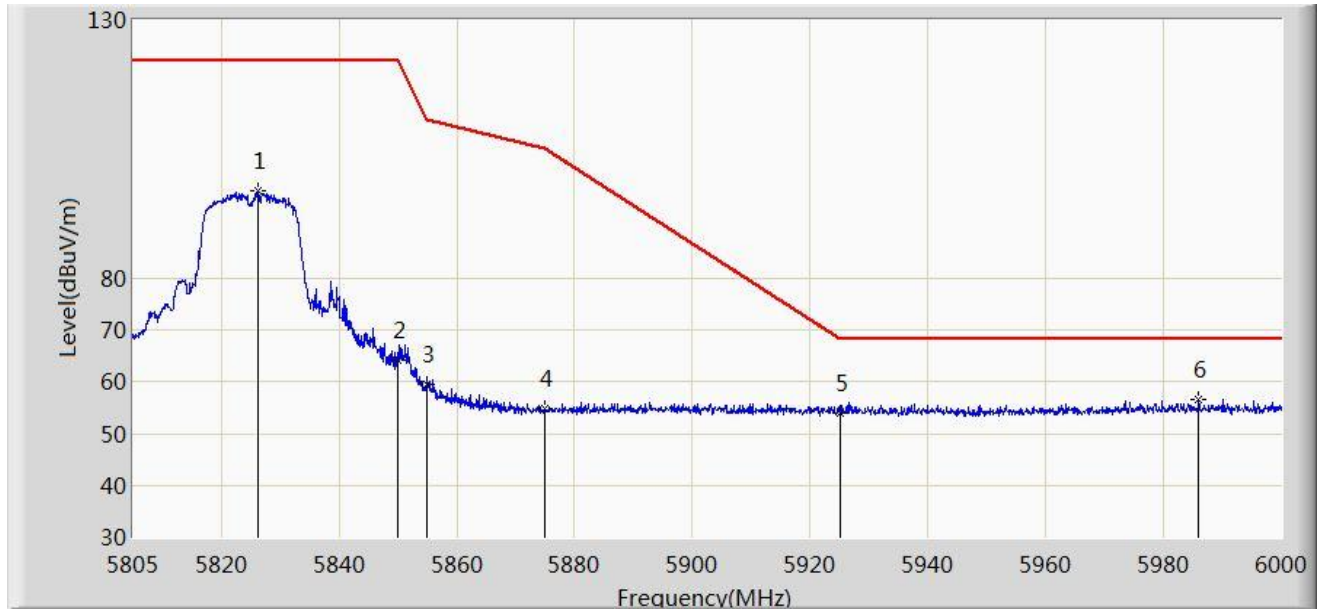


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5827.913	107.228	101.484	N/A	N/A	5.744	PK
2			5850.000	76.301	70.332	-45.899	122.200	5.968	PK
3			5855.000	70.038	64.063	-40.762	110.800	5.975	PK
4			5875.000	60.337	54.324	-44.863	105.200	6.013	PK
5			5925.000	54.017	47.882	-14.183	68.200	6.136	PK
6		*	5940.525	55.429	49.328	-12.771	68.200	6.101	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:43
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz	

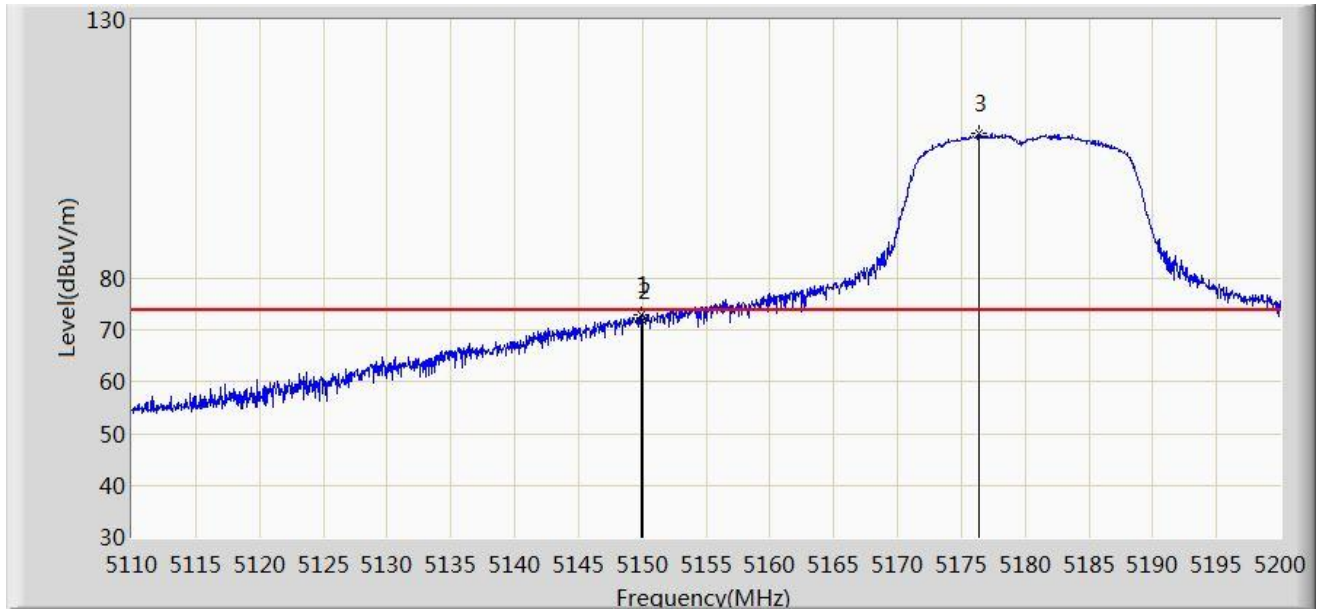


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5826.255	96.895	91.138	N/A	N/A	5.757	PK
2			5850.000	64.238	58.269	-57.962	122.200	5.968	PK
3			5855.000	59.503	53.528	-51.297	110.800	5.975	PK
4			5875.000	54.881	48.868	-50.319	105.200	6.013	PK
5			5925.000	54.066	47.931	-14.134	68.200	6.136	PK
6		*	5985.960	56.632	50.176	-11.568	68.200	6.456	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:45
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz	

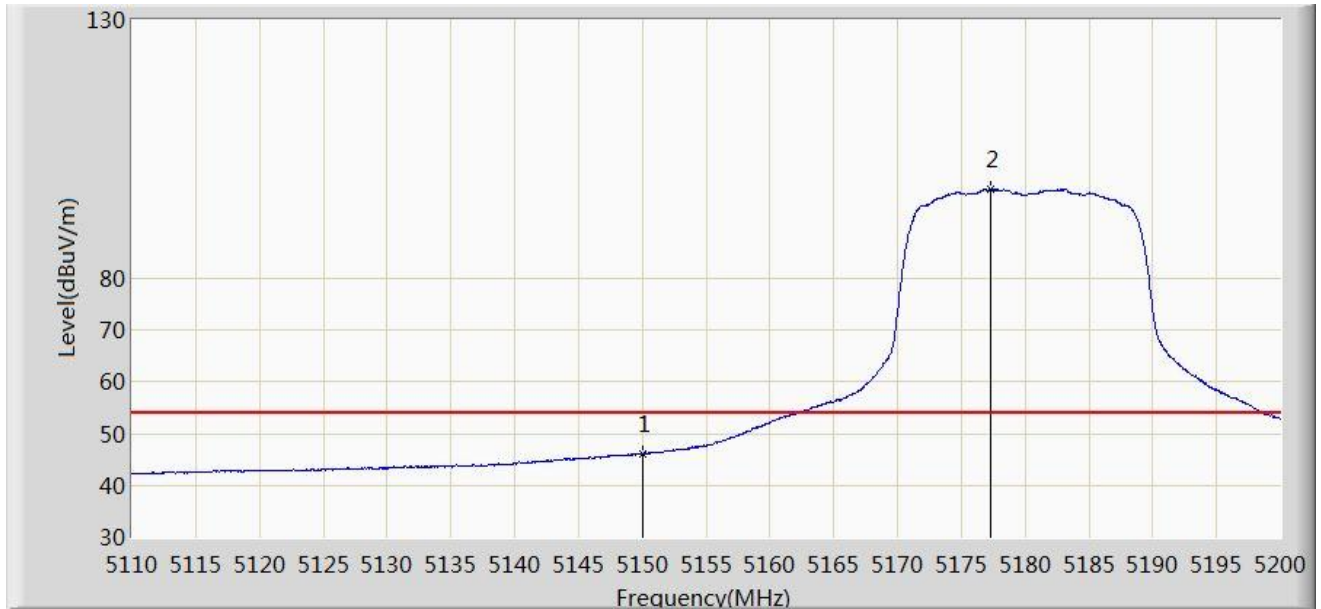


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.915	73.056	68.615	-0.944	74.000	4.441	PK
2			5150.000	71.941	67.499	-2.059	74.000	4.442	PK
3		*	5176.420	108.107	103.592	N/A	N/A	4.516	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:47
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz	

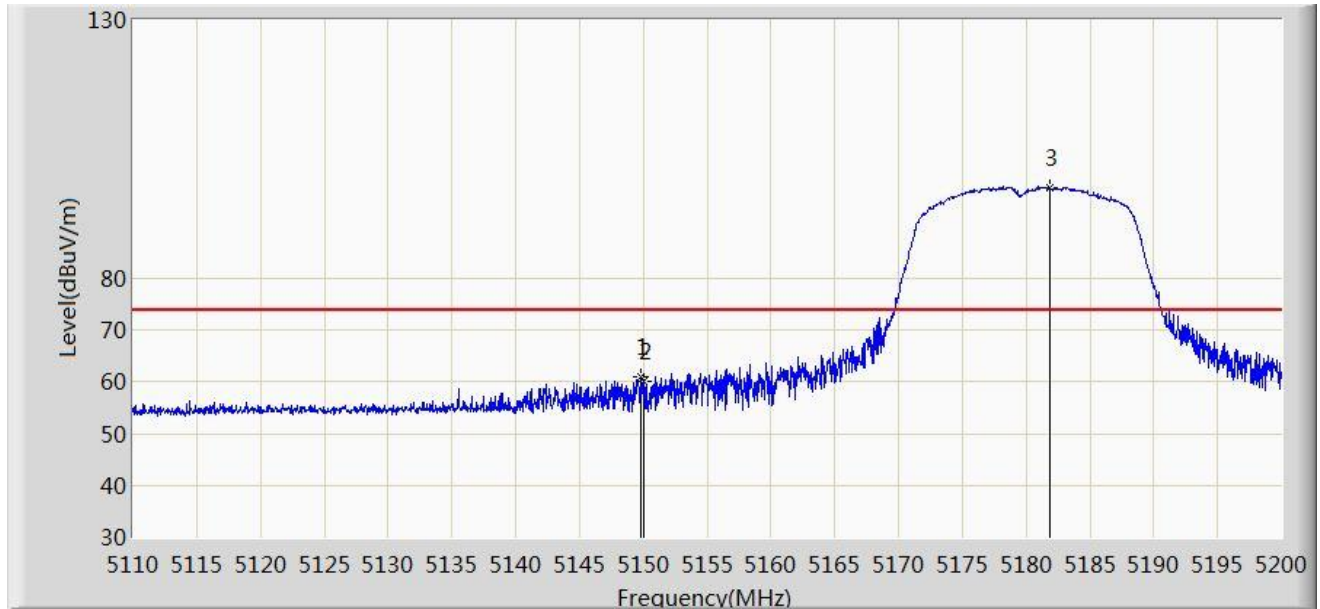


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	46.156	41.714	-7.844	54.000	4.442	AV
2		*	5177.275	97.247	92.739	N/A	N/A	4.509	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:48
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz	

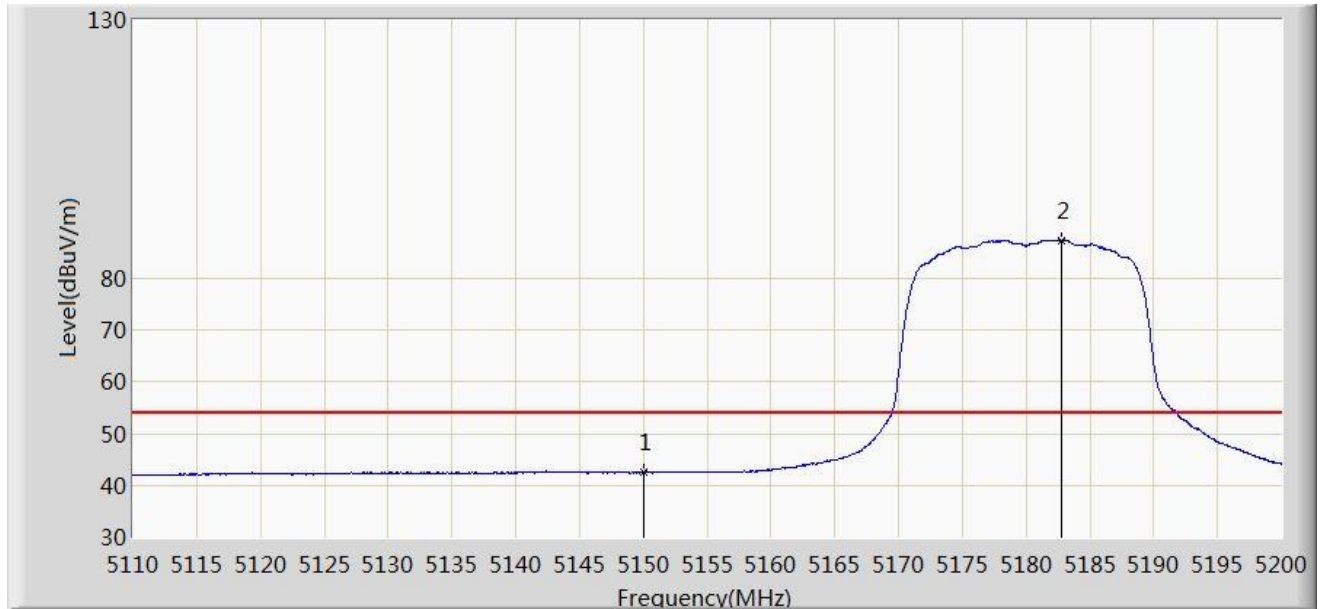


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.780	60.917	56.477	-13.083	74.000	4.440	PK
2			5150.000	60.054	55.612	-13.946	74.000	4.442	PK
3		*	5181.820	97.633	93.164	N/A	N/A	4.469	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:49
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz	

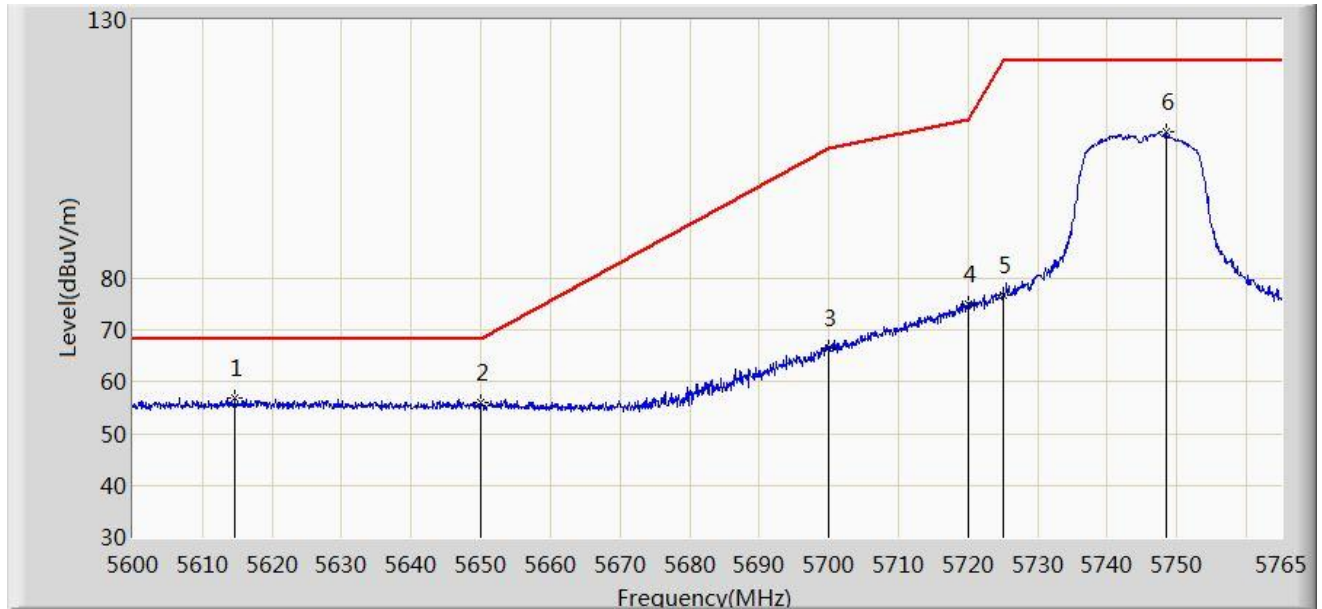


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	42.560	38.118	-11.440	54.000	4.442	AV
2		*	5182.720	87.324	82.865	N/A	N/A	4.459	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:50
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz	

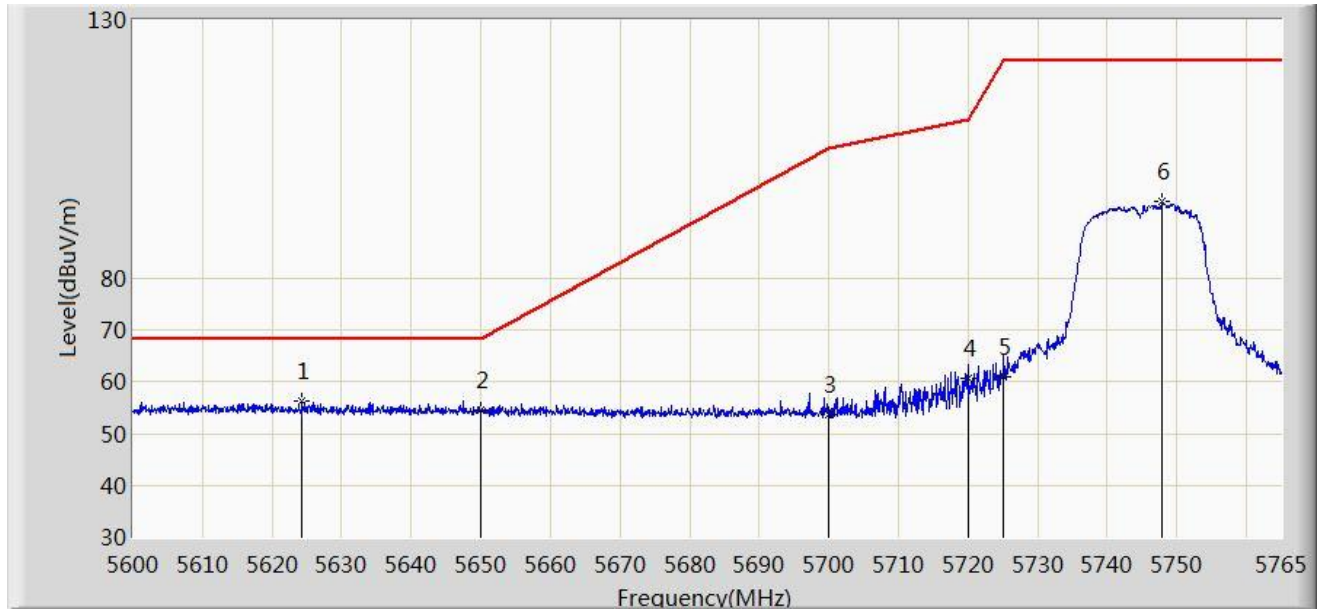


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5614.685	56.867	51.814	-11.333	68.200	5.052	PK
2			5650.000	56.027	50.691	-12.173	68.200	5.336	PK
3			5700.000	66.610	61.292	-38.590	105.200	5.318	PK
4			5720.000	75.110	69.636	-35.690	110.800	5.474	PK
5			5725.000	76.833	71.355	-45.367	122.200	5.478	PK
6			5748.583	108.244	102.566	N/A	N/A	5.678	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 15:59
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz	

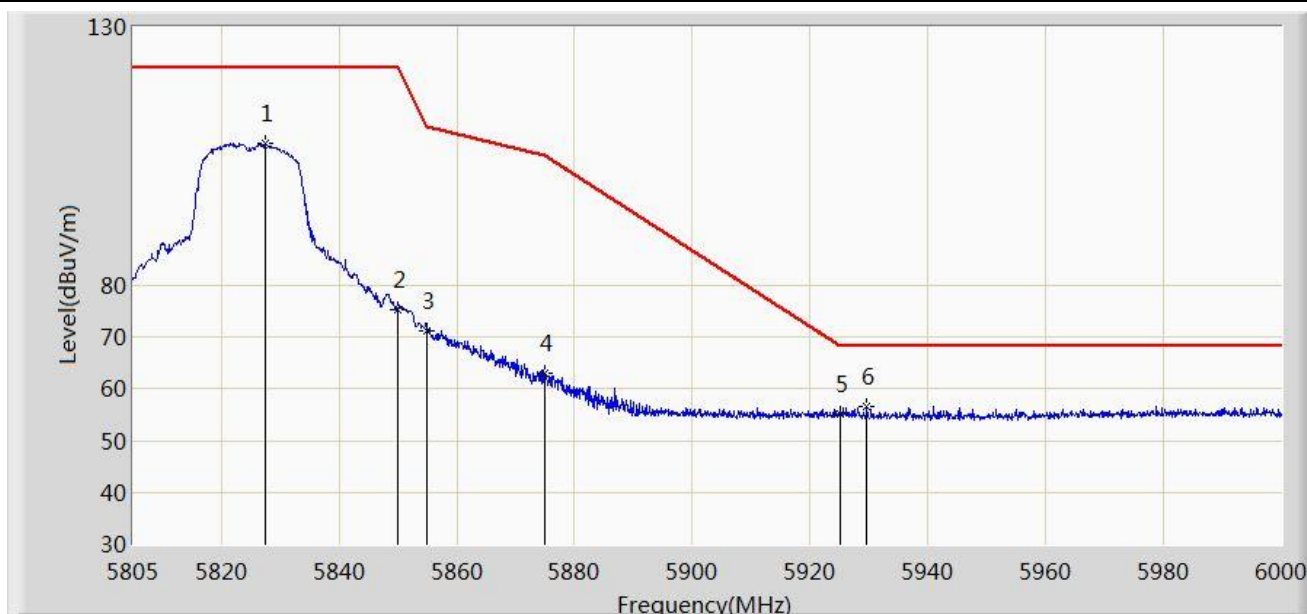


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5624.255	56.268	51.071	-11.932	68.200	5.197	PK
2			5650.000	54.431	49.095	-13.769	68.200	5.336	PK
3			5700.000	53.675	48.357	-51.525	105.200	5.318	PK
4			5720.000	60.679	55.205	-50.121	110.800	5.474	PK
5			5725.000	61.017	55.539	-61.183	122.200	5.478	PK
6			5747.757	94.820	89.159	N/A	N/A	5.661	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:01
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz	

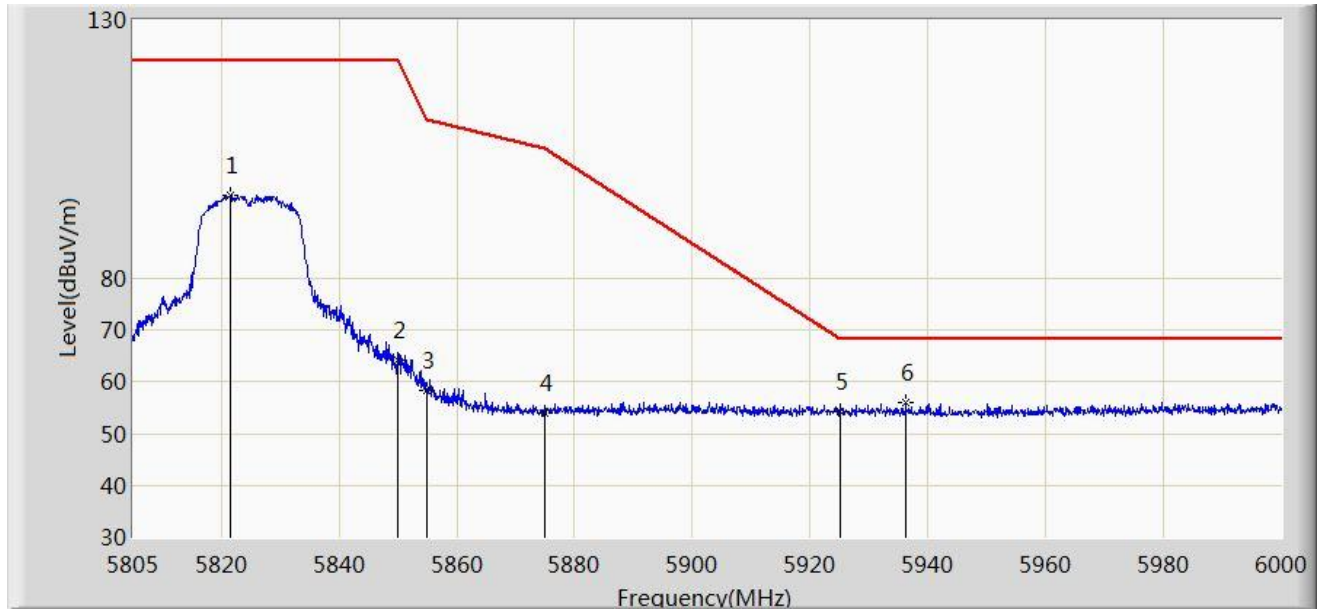


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5827.425	107.503	101.755	N/A	N/A	5.748	PK
2			5850.000	75.408	69.439	-46.792	122.200	5.968	PK
3			5855.000	71.194	65.219	-39.606	110.800	5.975	PK
4			5875.000	63.025	57.012	-42.175	105.200	6.013	PK
5			5925.000	55.033	48.898	-13.167	68.200	6.136	PK
6		*	5929.605	56.643	50.486	-11.557	68.200	6.156	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:06
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz	

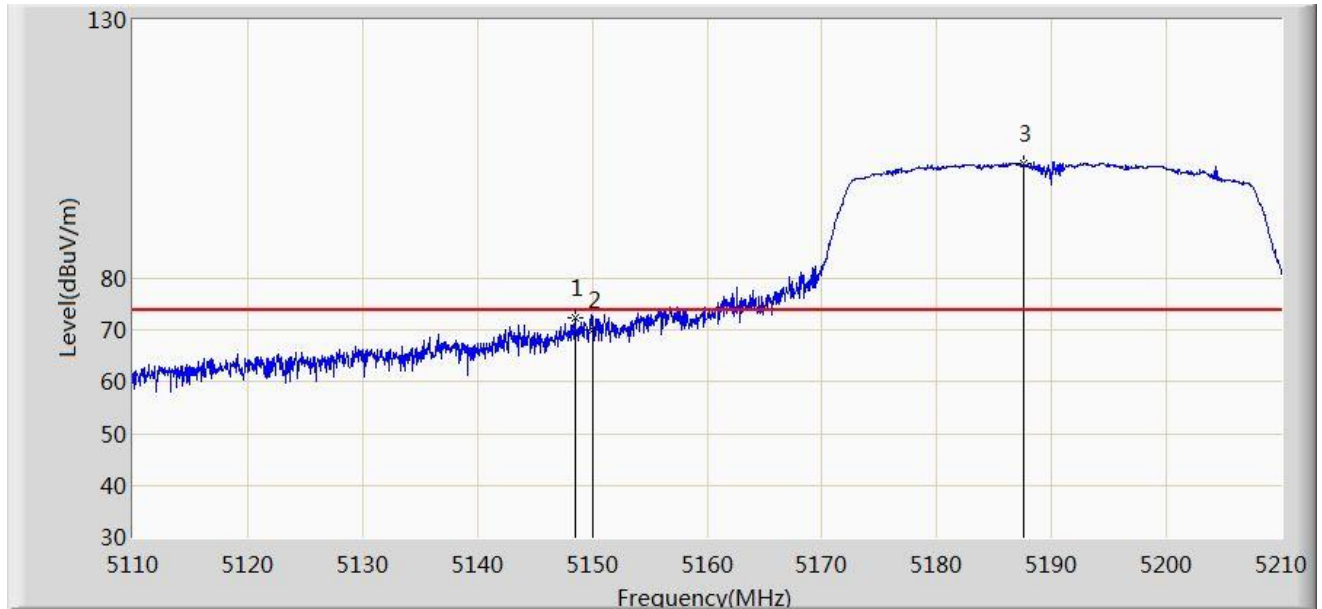


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5821.672	96.222	96.222	N/A	N/A	0.000	PK
2			5850.000	64.231	64.231	-57.969	122.200	0.000	PK
3			5855.000	58.470	58.470	-52.330	110.800	0.000	PK
4			5875.000	53.920	53.920	-51.280	105.200	0.000	PK
5			5925.000	54.199	54.199	-14.001	68.200	0.000	PK
6		*	5936.235	56.024	56.024	-12.176	68.200	0.000	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:11
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

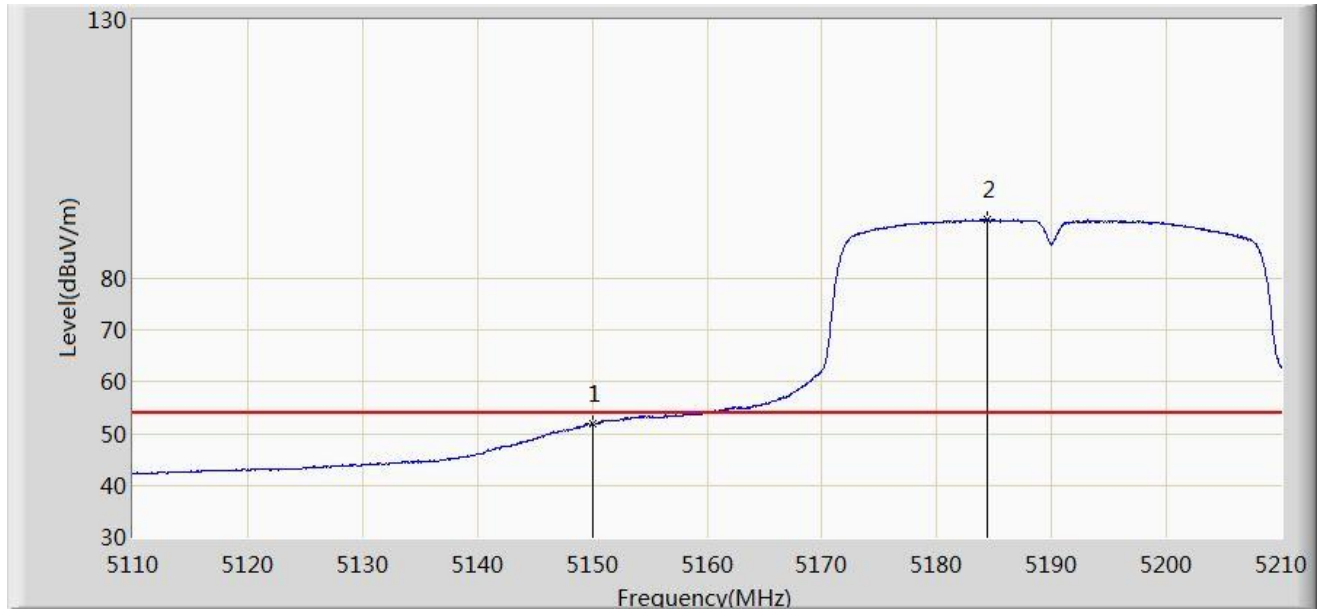


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.500	72.524	68.099	-1.476	74.000	4.425	PK
2			5150.000	70.166	65.724	-3.834	74.000	4.442	PK
3		*	5187.600	102.255	97.853	N/A	N/A	4.402	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:13
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

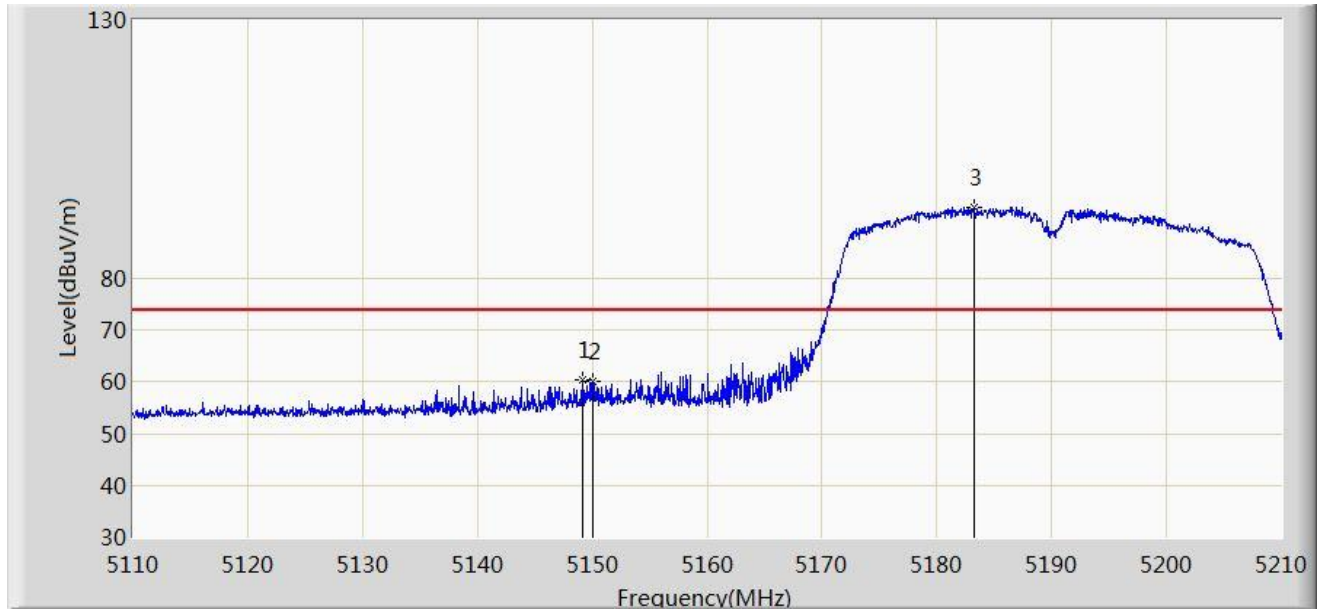


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.971	47.529	-2.029	54.000	4.442	AV
2		*	5184.350	91.339	86.899	N/A	N/A	4.440	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:14
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

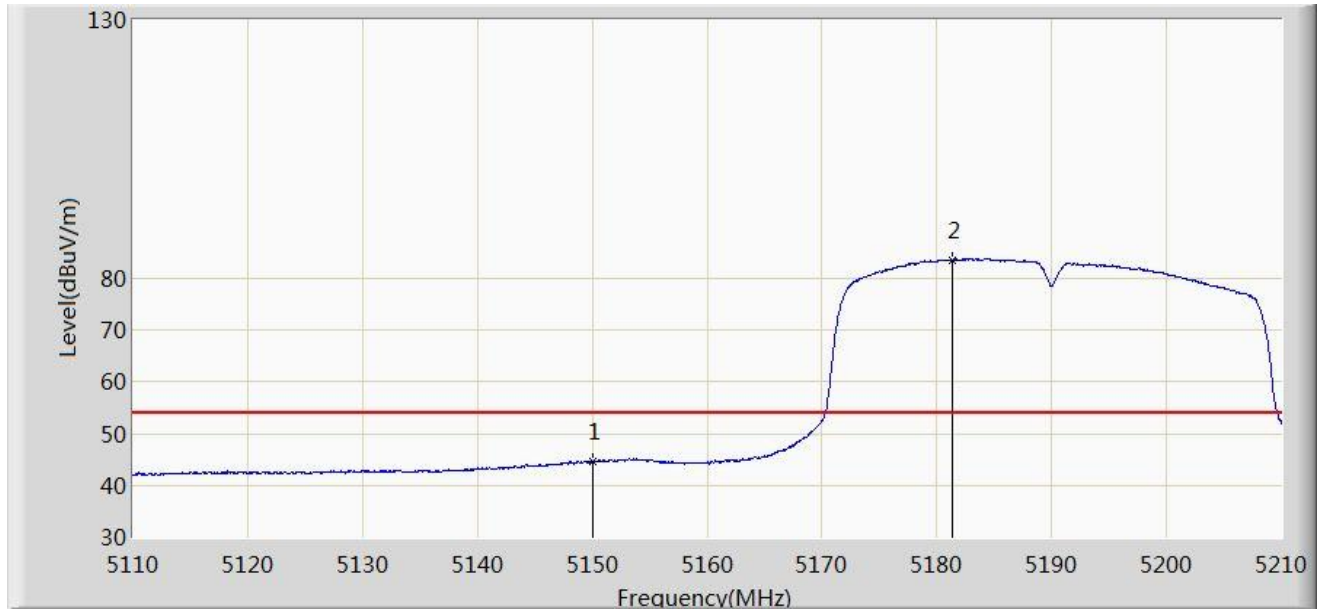


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.200	60.385	55.952	-13.615	74.000	4.433	PK
2			5150.000	60.102	55.660	-13.898	74.000	4.442	PK
3		*	5183.200	93.779	89.325	N/A	N/A	4.454	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:15
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

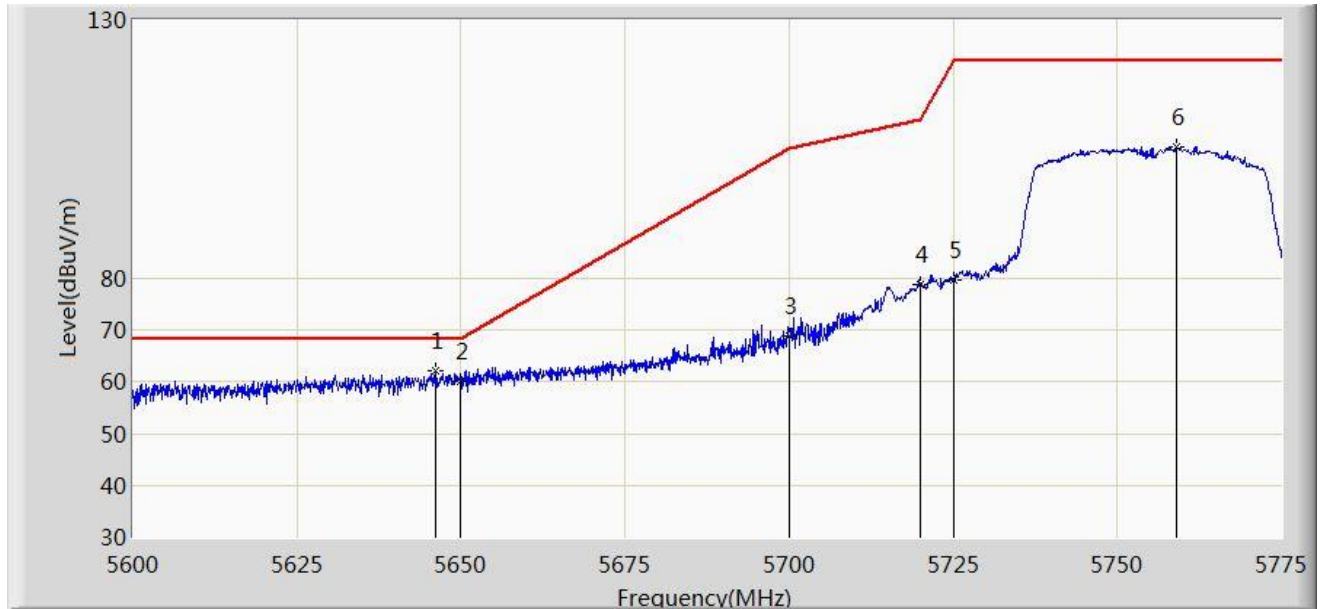


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	44.736	40.294	-9.264	54.000	4.442	AV
2		*	5181.300	83.637	79.163	N/A	N/A	4.474	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:16
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz	

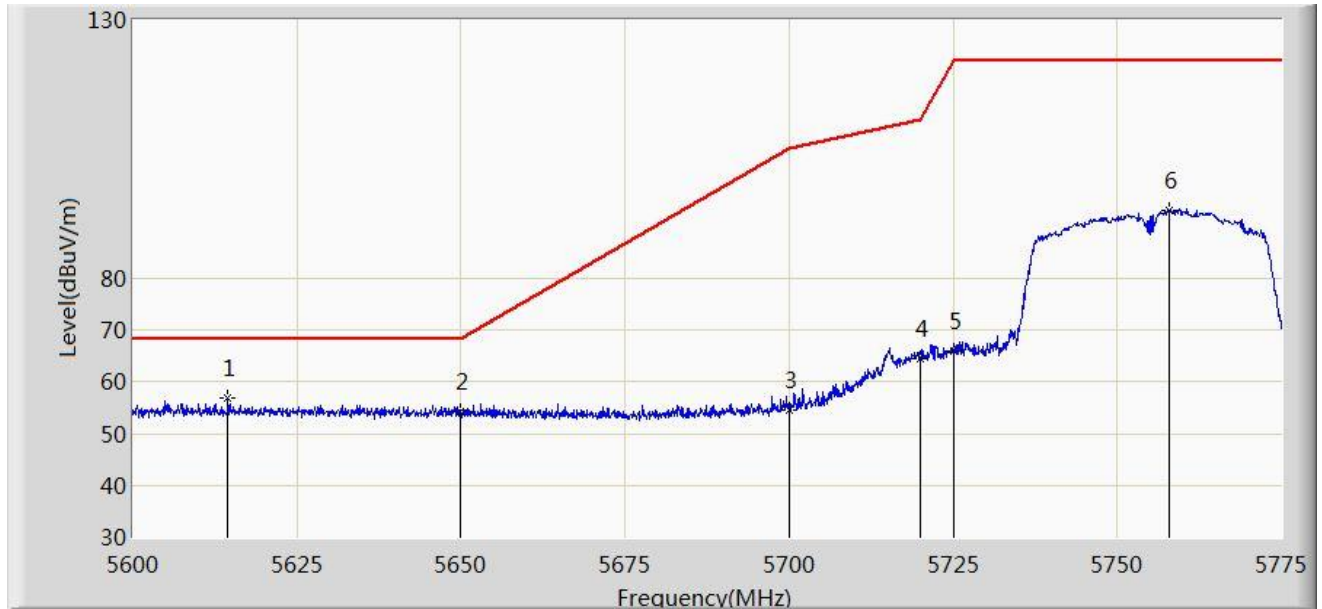


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5646.200	62.050	56.776	-6.150	68.200	5.274	PK
2			5650.000	60.123	54.787	-8.077	68.200	5.336	PK
3			5700.000	68.805	63.487	-36.395	105.200	5.318	PK
4			5720.000	78.832	73.358	-31.968	110.800	5.474	PK
5			5725.000	79.729	74.251	-42.471	122.200	5.478	PK
6			5758.987	105.314	99.432	N/A	N/A	5.882	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:19
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz	

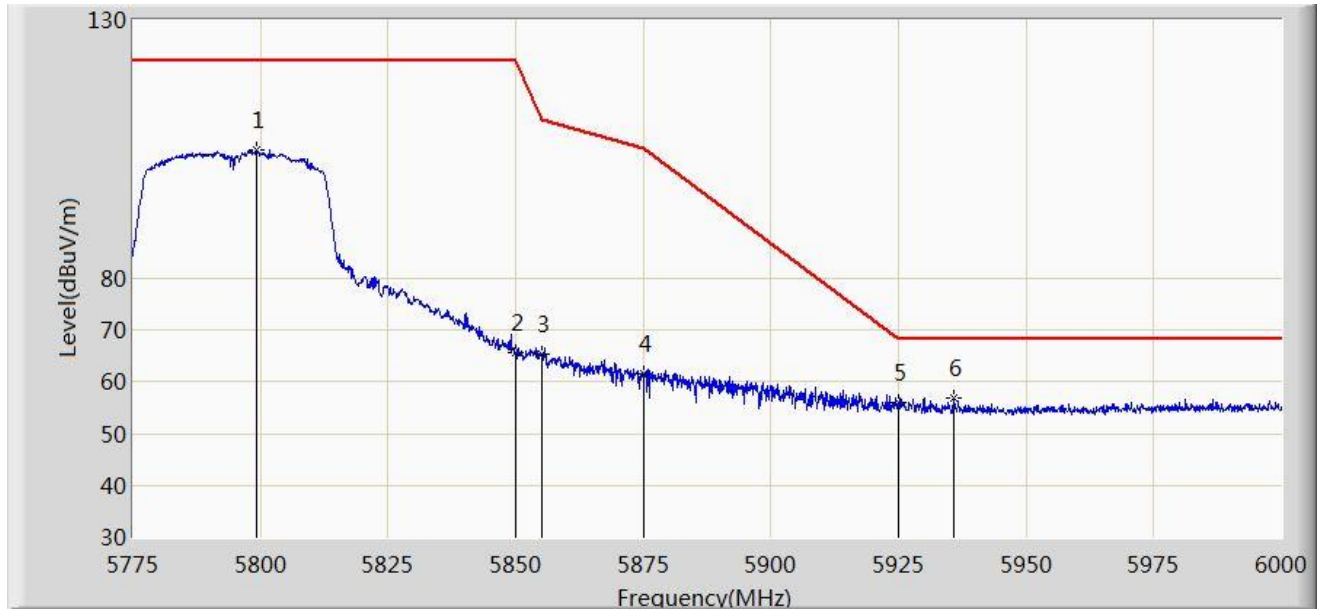


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5614.525	56.829	51.779	-11.371	68.200	5.050	PK
2			5650.000	54.192	48.856	-14.008	68.200	5.336	PK
3			5700.000	54.598	49.280	-50.602	105.200	5.318	PK
4			5720.000	64.546	59.072	-46.254	110.800	5.474	PK
5			5725.000	66.012	60.534	-56.188	122.200	5.478	PK
6			5758.025	93.233	87.370	N/A	N/A	5.864	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:20
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz	

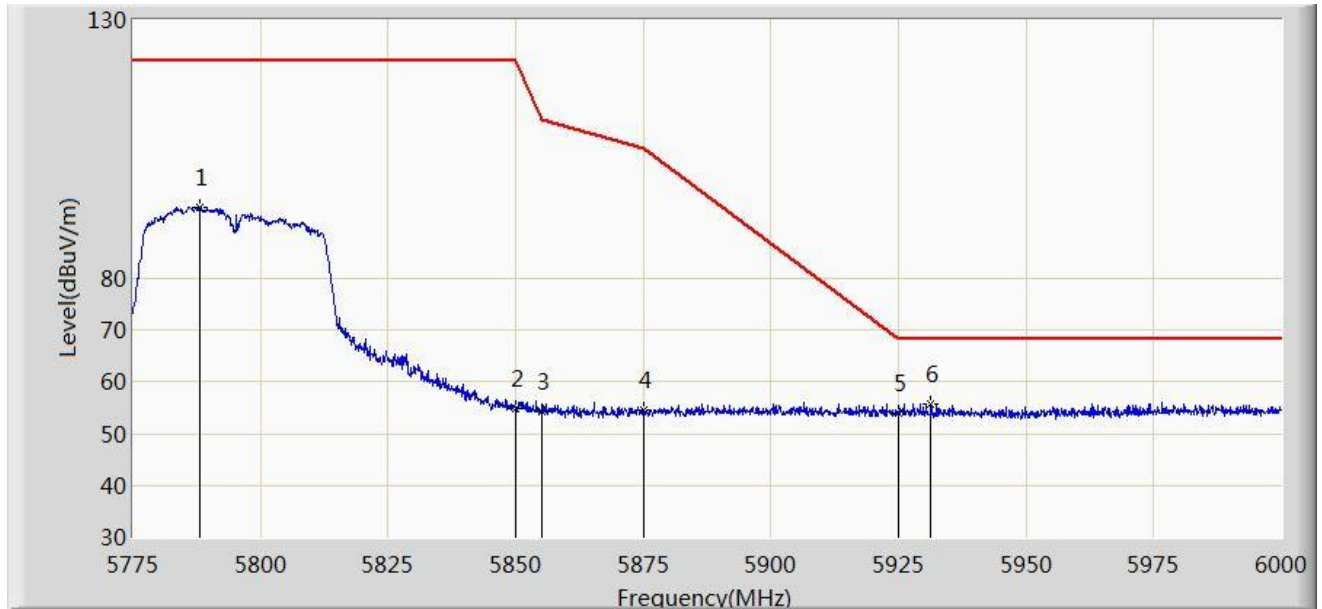


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5799.187	104.737	98.880	N/A	N/A	5.857	PK
2			5850.000	65.595	59.626	-56.605	122.200	5.968	PK
3			5855.000	65.391	59.416	-45.409	110.800	5.975	PK
4			5875.000	61.505	55.492	-43.695	105.200	6.013	PK
5			5925.000	55.922	49.787	-12.278	68.200	6.136	PK
6		*	5935.875	56.993	50.867	-11.207	68.200	6.127	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:22
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz	

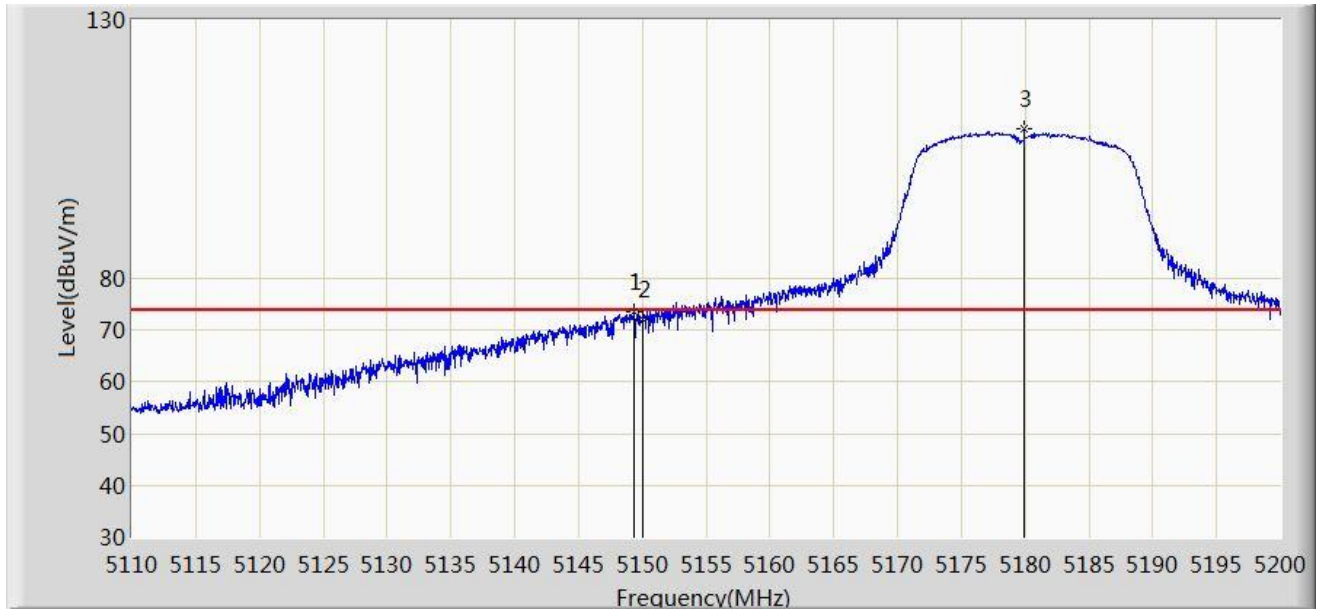


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5788.050	93.833	88.034	N/A	N/A	5.800	PK
2			5850.000	54.924	48.955	-67.276	122.200	5.968	PK
3			5855.000	54.201	48.226	-56.599	110.800	5.975	PK
4			5875.000	54.474	48.461	-50.726	105.200	6.013	PK
5			5925.000	53.886	47.751	-14.314	68.200	6.136	PK
6		*	5931.263	55.634	49.483	-12.566	68.200	6.152	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:25
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

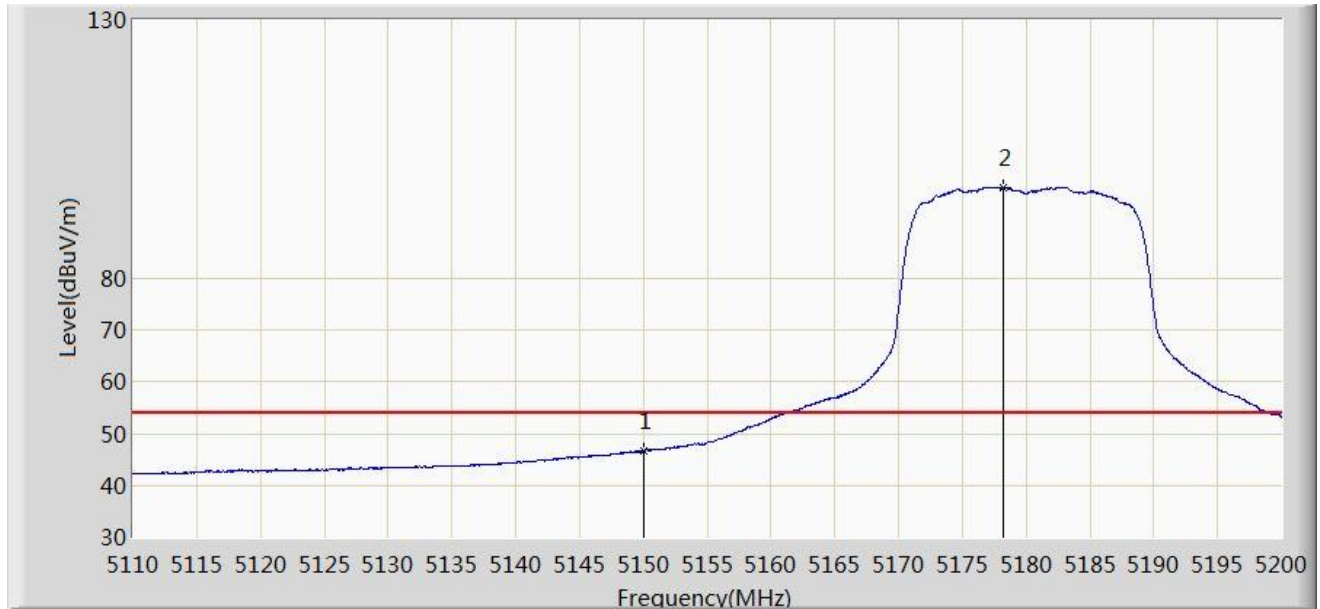


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.330	73.450	69.015	-0.550	74.000	4.434	PK
2			5150.000	72.109	67.667	-1.891	74.000	4.442	PK
3		*	5179.930	109.072	104.587	N/A	N/A	4.485	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:27
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

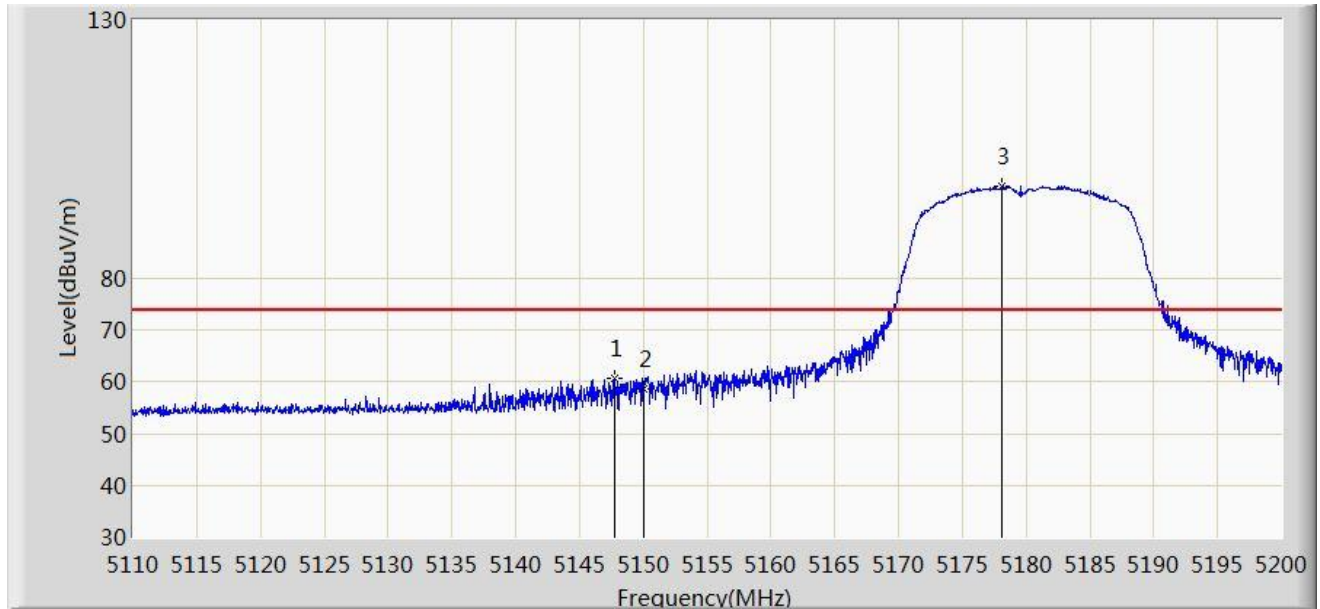


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	46.528	42.086	-7.472	54.000	4.442	AV
2		*	5178.175	97.581	93.081	N/A	N/A	4.501	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:28
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

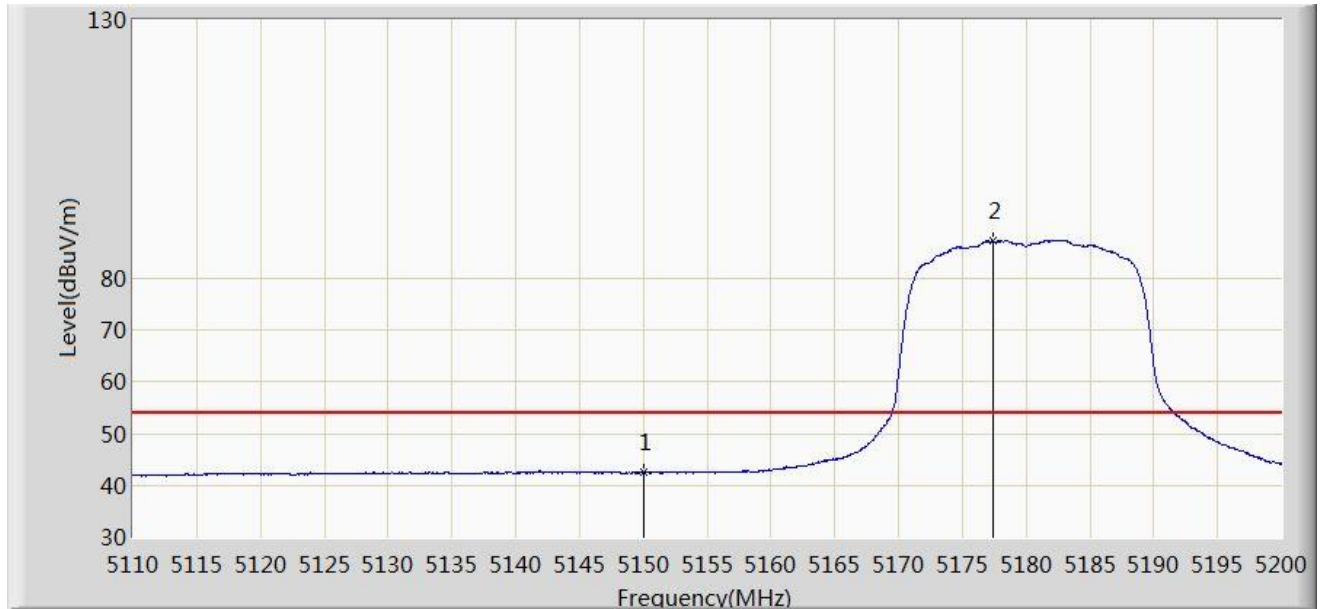


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.710	60.678	56.258	-13.322	74.000	4.420	PK
2			5150.000	58.659	54.217	-15.341	74.000	4.442	PK
3		*	5178.085	97.930	93.429	N/A	N/A	4.501	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:29
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

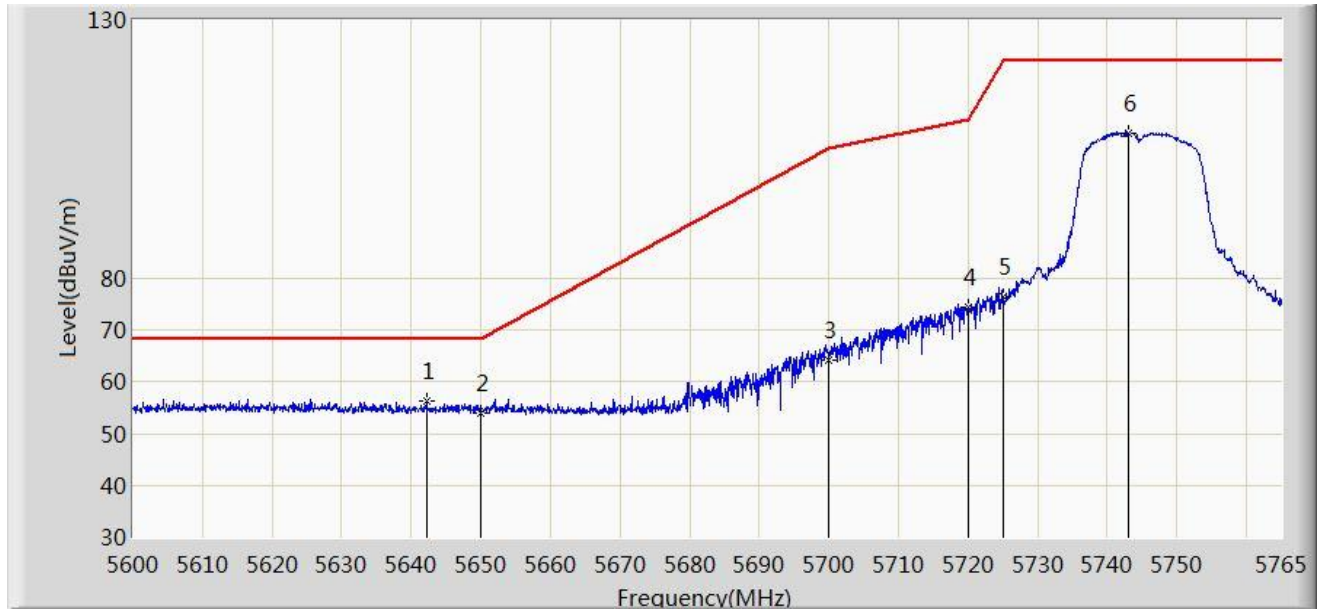


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	42.453	38.011	-11.547	54.000	4.442	AV
2		*	5177.410	87.363	82.856	N/A	N/A	4.507	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:31
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz	

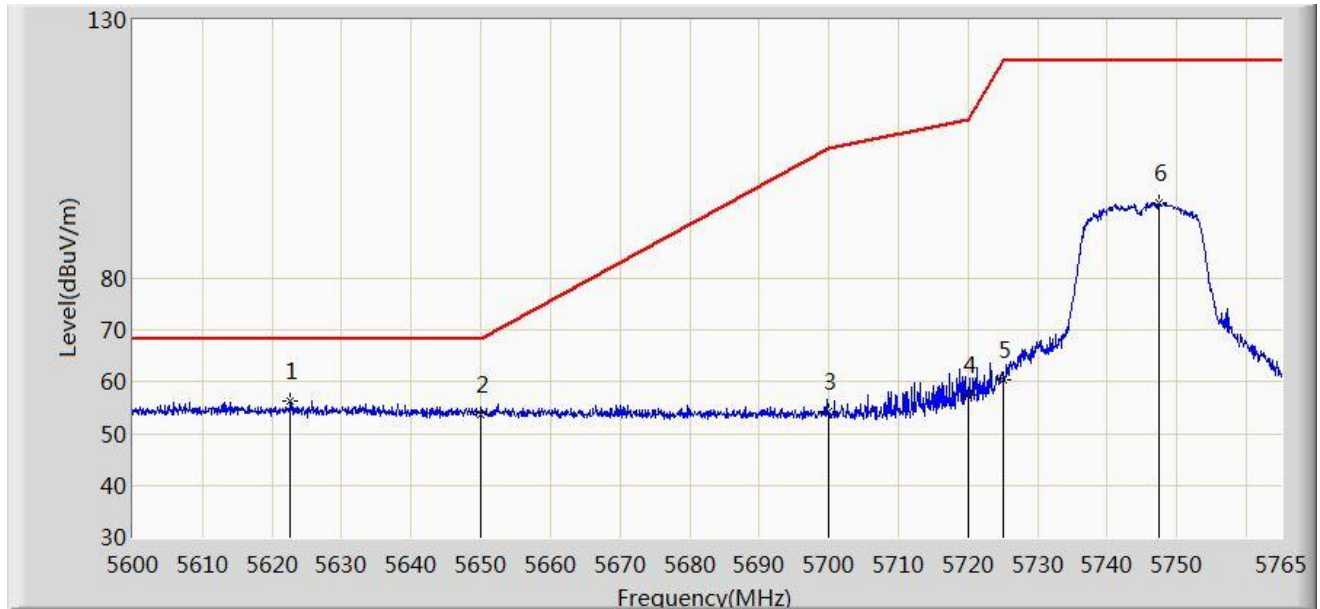


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5642.158	56.300	51.092	-11.900	68.200	5.208	PK
2			5650.000	54.109	48.773	-14.091	68.200	5.336	PK
3			5700.000	64.327	59.009	-40.873	105.200	5.318	PK
4			5720.000	74.455	68.981	-36.345	110.800	5.474	PK
5			5725.000	76.381	70.903	-45.819	122.200	5.478	PK
6			5743.055	108.184	102.615	N/A	N/A	5.568	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:33
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz	

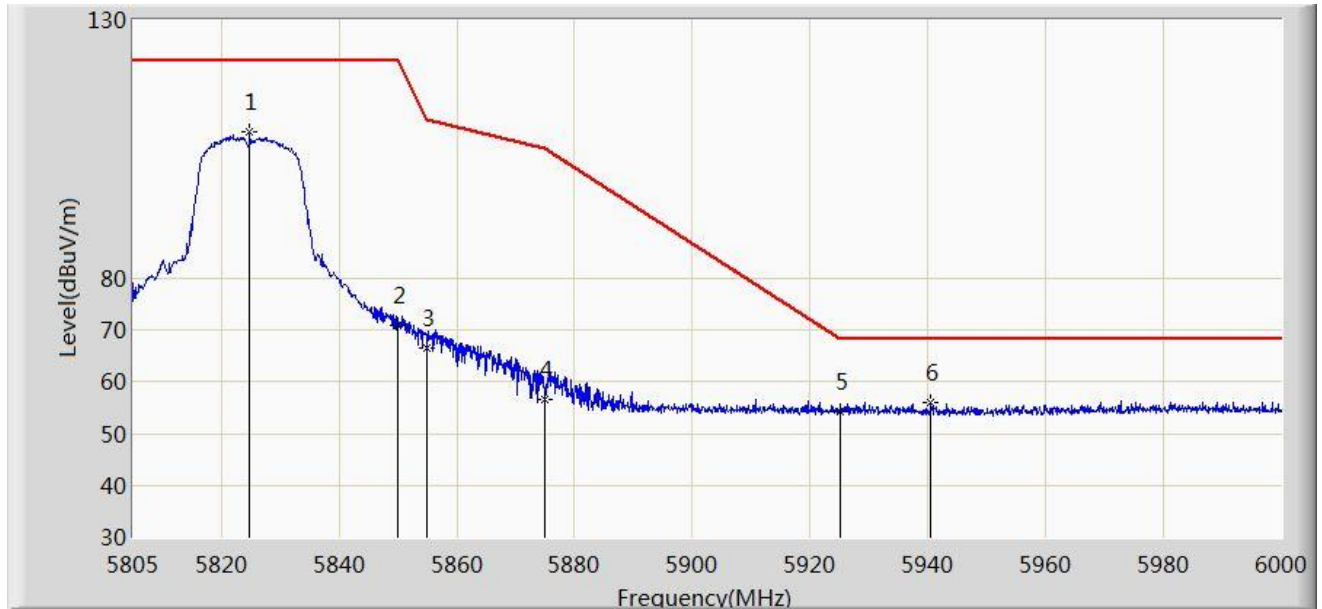


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5622.687	56.349	51.172	-11.851	68.200	5.177	PK
2			5650.000	53.727	48.391	-14.473	68.200	5.336	PK
3			5700.000	54.206	48.888	-50.994	105.200	5.318	PK
4			5720.000	57.535	52.061	-53.265	110.800	5.474	PK
5			5725.000	60.419	54.941	-61.781	122.200	5.478	PK
6			5747.345	94.589	88.936	N/A	N/A	5.654	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:35
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VH20 at Channel 5825MHz	

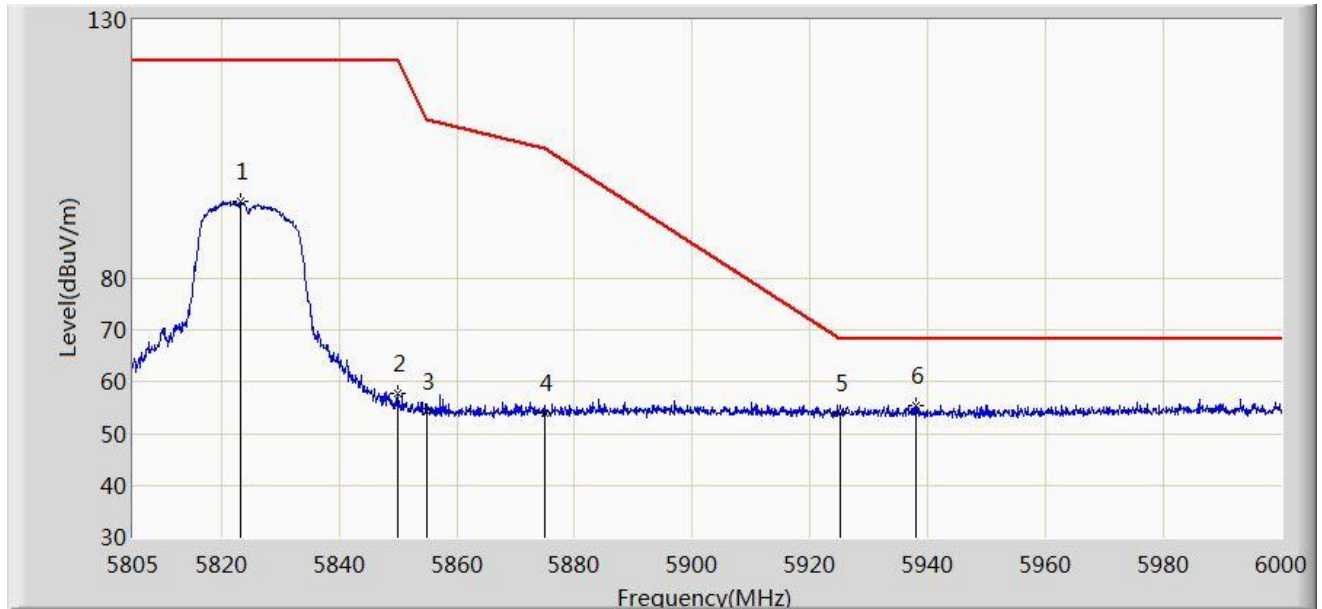


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5824.890	108.253	102.484	N/A	N/A	5.769	PK
2			5850.000	71.074	65.105	-51.126	122.200	5.968	PK
3			5855.000	66.637	60.662	-44.163	110.800	5.975	PK
4			5875.000	56.508	50.495	-48.692	105.200	6.013	PK
5			5925.000	54.263	48.128	-13.937	68.200	6.136	PK
6		*	5940.525	56.068	49.967	-12.132	68.200	6.101	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:36
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VH20 at Channel 5825MHz	

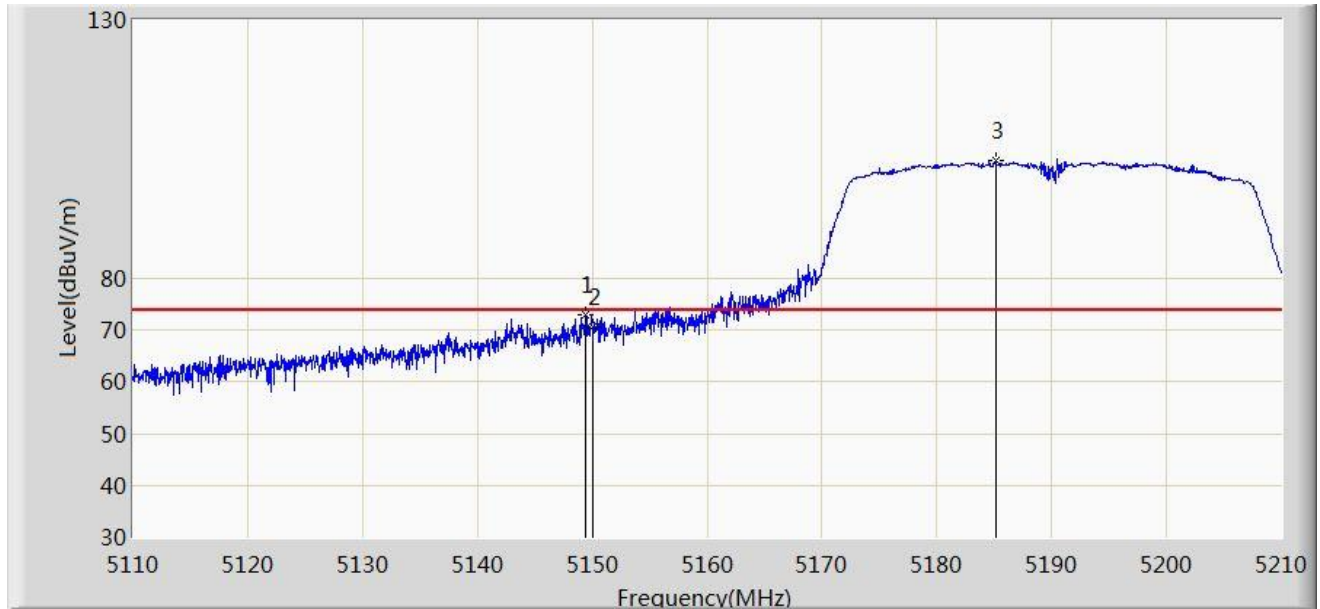


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5823.330	94.801	89.019	N/A	N/A	5.782	PK
2			5850.000	57.713	51.744	-64.487	122.200	5.968	PK
3			5855.000	54.219	48.244	-56.581	110.800	5.975	PK
4			5875.000	53.963	47.950	-51.237	105.200	6.013	PK
5			5925.000	54.037	47.902	-14.163	68.200	6.136	PK
6		*	5937.893	55.362	49.246	-12.838	68.200	6.116	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:38
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

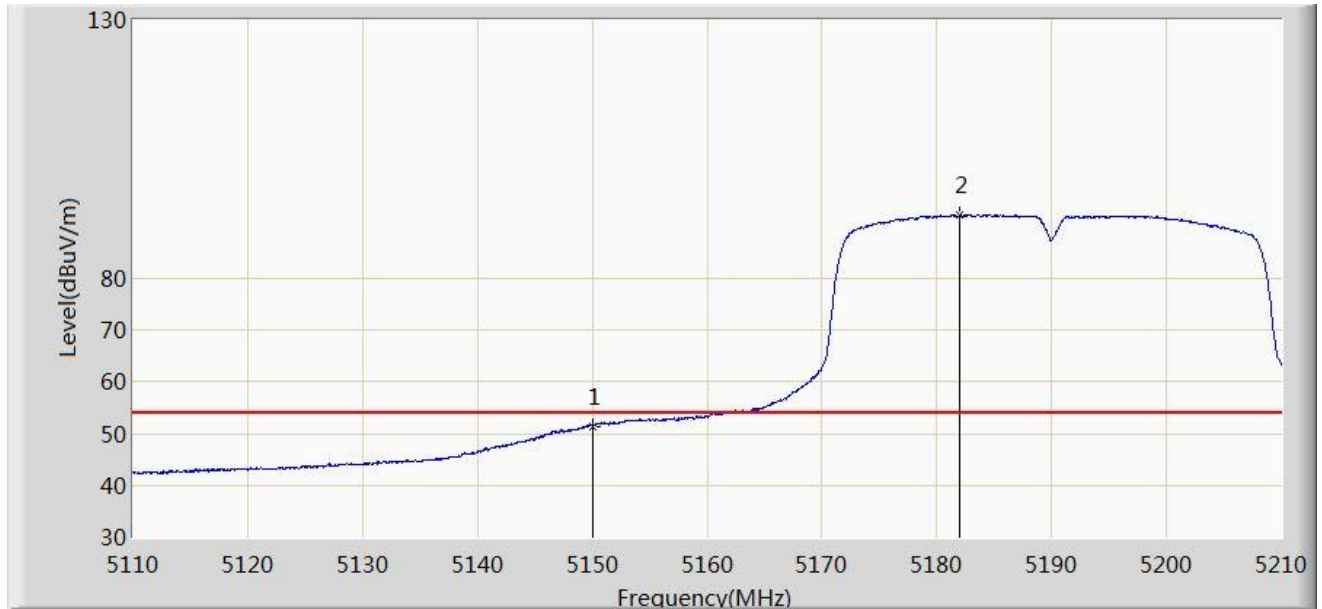


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.450	72.859	68.423	-1.141	74.000	4.436	PK
2			5150.000	70.616	66.174	-3.384	74.000	4.442	PK
3		*	5185.100	102.770	98.338	N/A	N/A	4.431	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:40
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

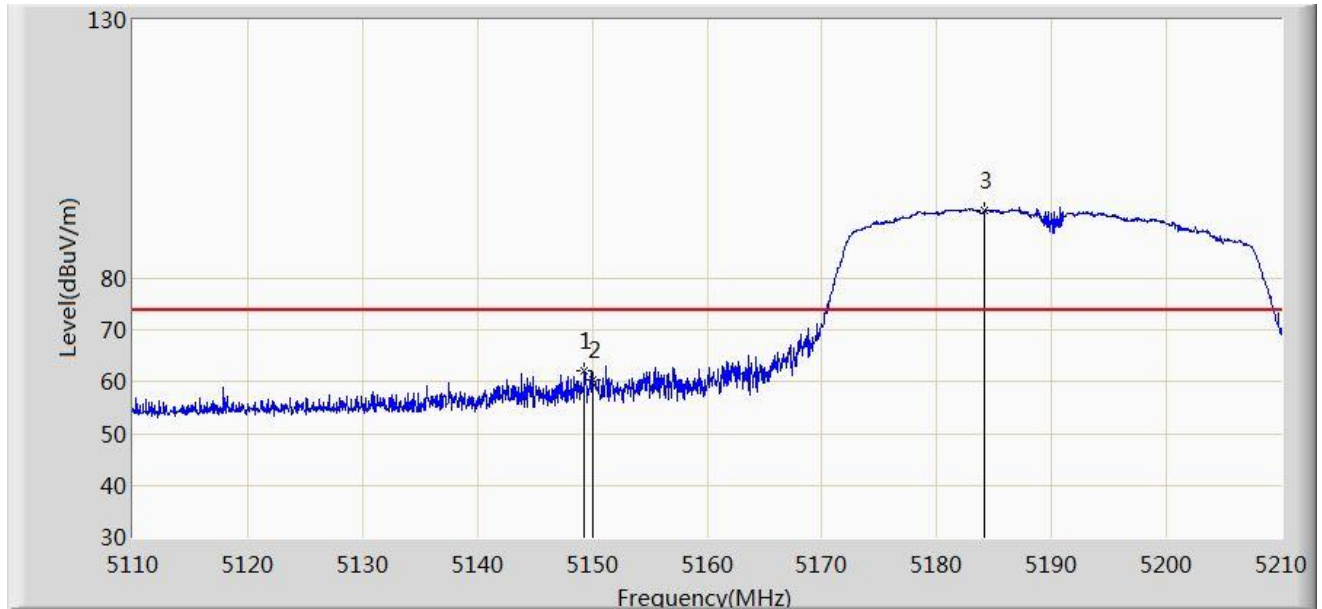


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.397	46.955	-2.603	54.000	4.442	AV
2		*	5181.950	92.207	87.739	N/A	N/A	4.468	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:41
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

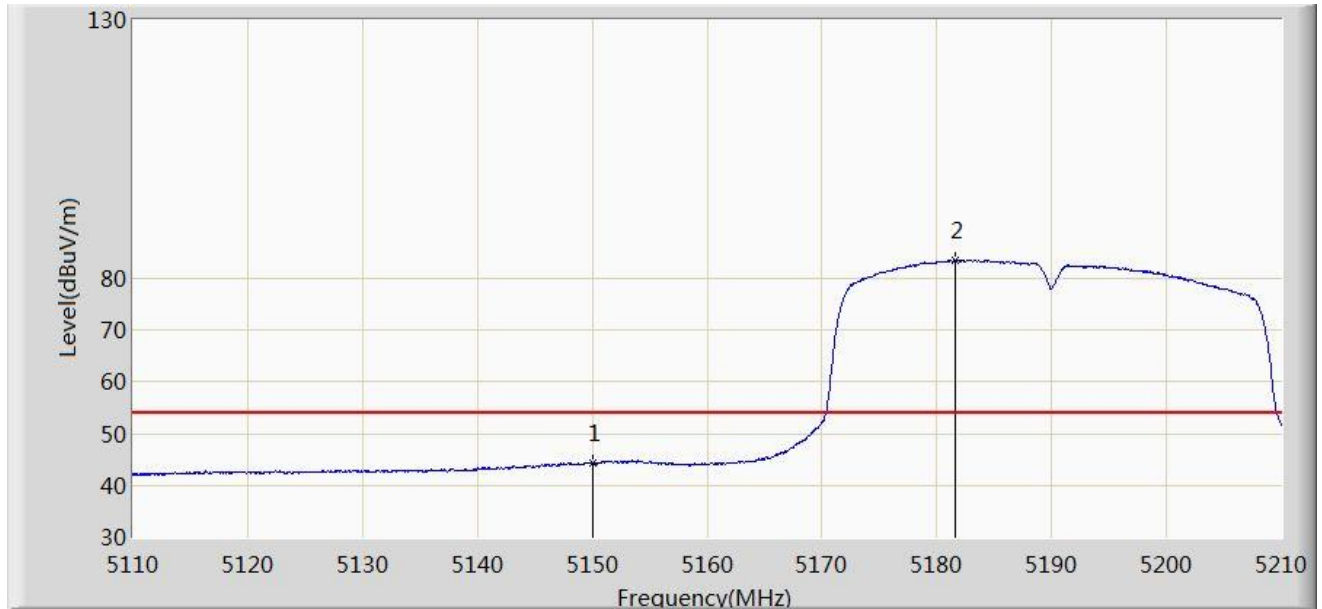


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.350	62.104	57.669	-11.896	74.000	4.435	PK
2			5150.000	60.360	55.918	-13.640	74.000	4.442	PK
3		*	5184.200	93.284	88.842	N/A	N/A	4.442	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:42
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz	

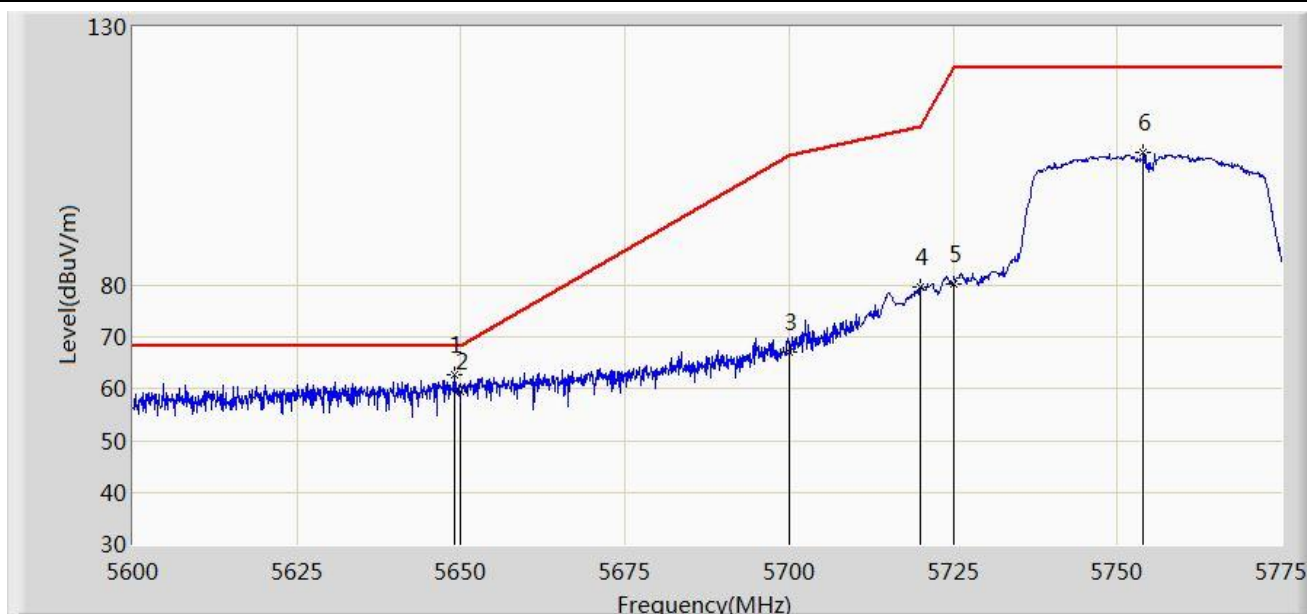


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	44.357	39.915	-9.643	54.000	4.442	AV
2		*	5181.550	83.628	79.156	N/A	N/A	4.471	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:43
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz	

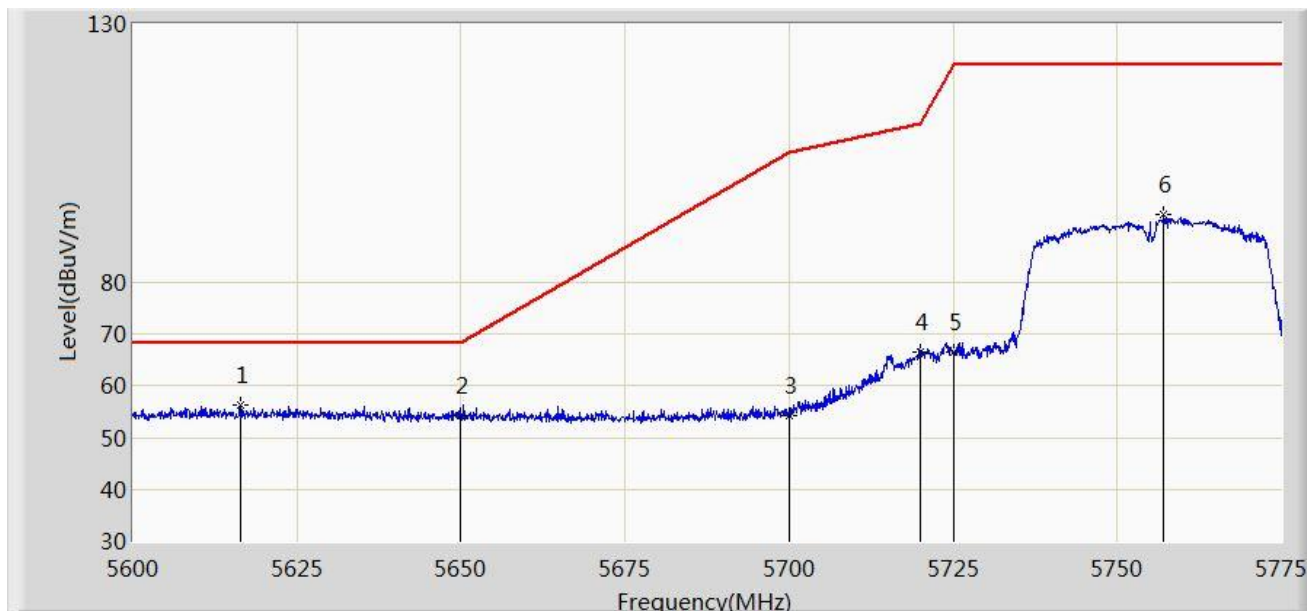


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5648.913	62.843	57.525	-5.357	68.200	5.318	PK
2			5650.000	59.439	54.103	-8.761	68.200	5.336	PK
3			5700.000	67.025	61.707	-38.175	105.200	5.318	PK
4			5720.000	79.676	74.202	-31.124	110.800	5.474	PK
5			5725.000	80.229	74.751	-41.971	122.200	5.478	PK
6			5754.000	105.714	99.930	N/A	N/A	5.784	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:45
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz	

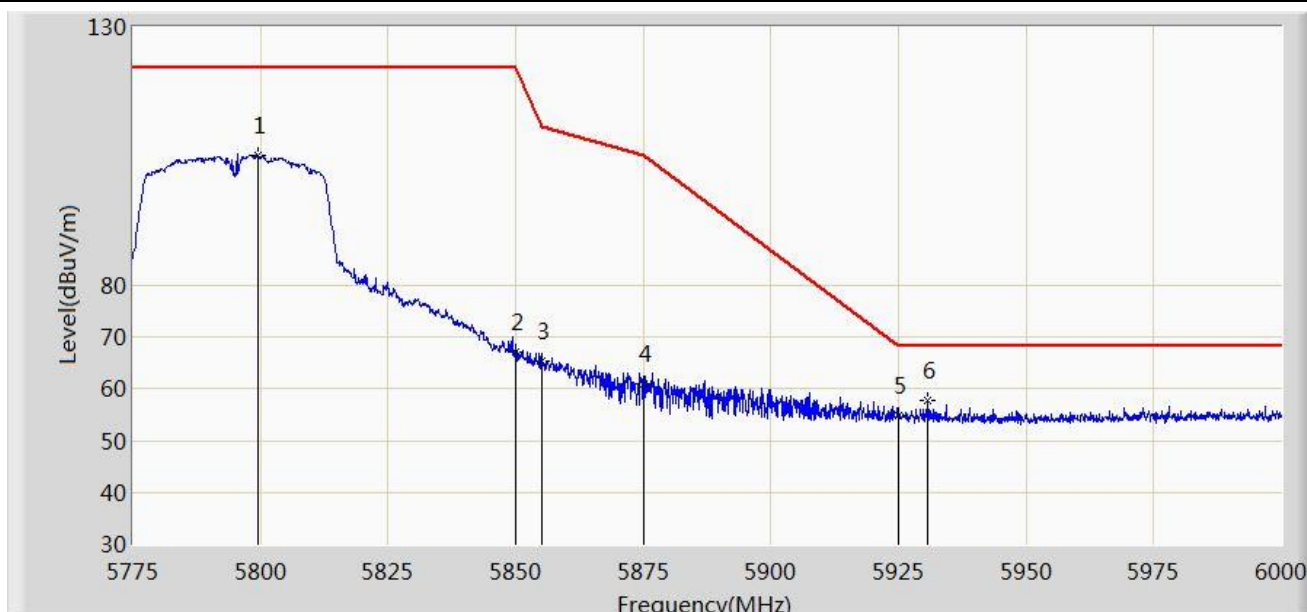


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5616.362	56.370	51.291	-11.830	68.200	5.079	PK
2			5650.000	54.340	49.004	-13.860	68.200	5.336	PK
3			5700.000	54.365	49.047	-50.835	105.200	5.318	PK
4			5720.000	66.419	60.945	-44.381	110.800	5.474	PK
5			5725.000	66.435	60.957	-55.765	122.200	5.478	PK
6			5757.062	93.148	87.304	N/A	N/A	5.844	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:46
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz	

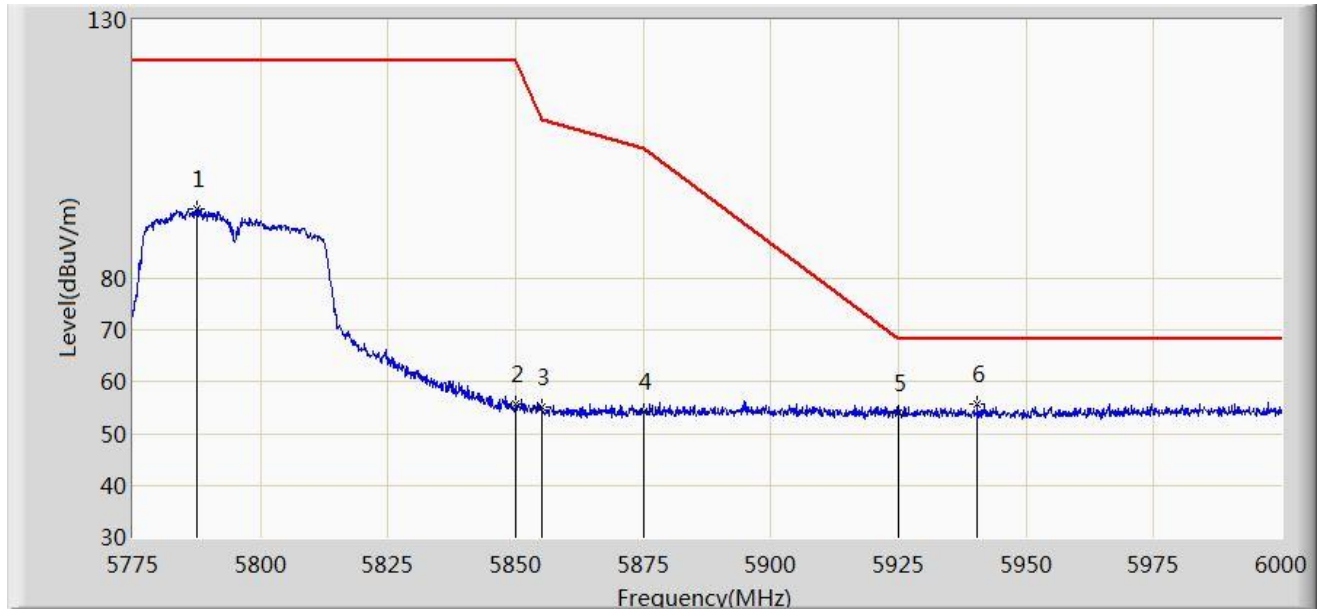


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5799.525	105.114	99.256	N/A	N/A	5.858	PK
2			5850.000	67.236	61.267	-54.964	122.200	5.968	PK
3			5855.000	65.488	59.513	-45.312	110.800	5.975	PK
4			5875.000	60.983	54.970	-44.217	105.200	6.013	PK
5			5925.000	54.810	48.675	-13.390	68.200	6.136	PK
6		*	5930.812	57.706	51.552	-10.494	68.200	6.154	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:47
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz	

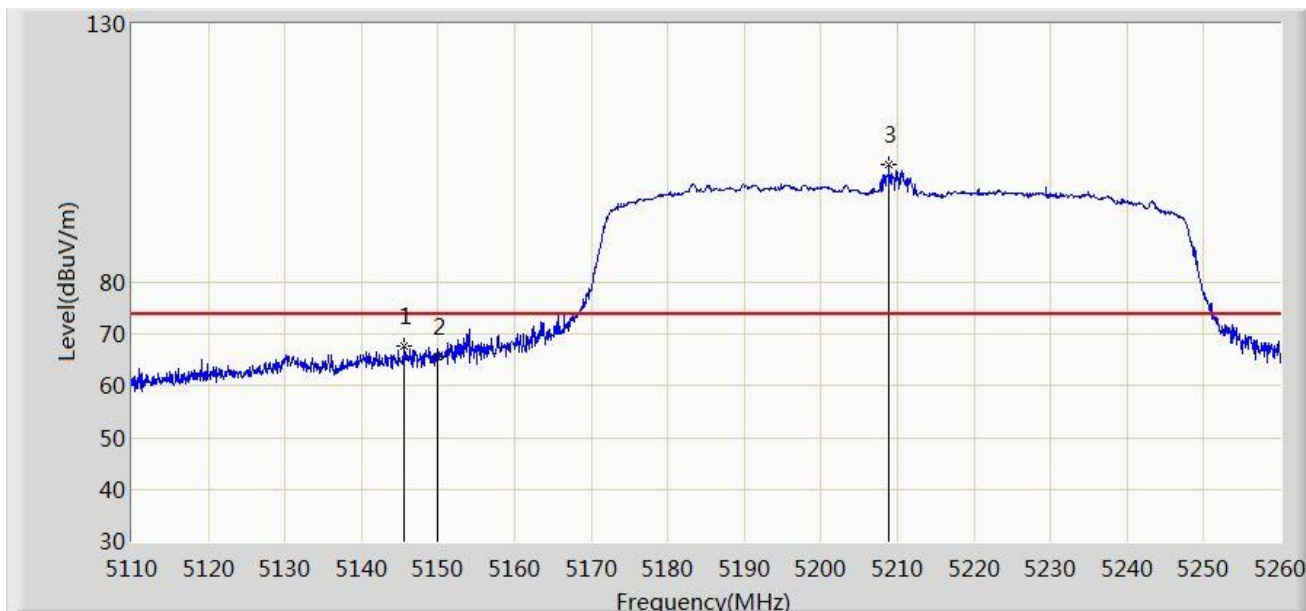


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5787.600	93.482	87.686	N/A	N/A	5.796	PK
2			5850.000	55.653	49.684	-66.547	122.200	5.968	PK
3			5855.000	55.148	49.173	-55.652	110.800	5.975	PK
4			5875.000	54.163	48.150	-51.037	105.200	6.013	PK
5			5925.000	54.073	47.938	-14.127	68.200	6.136	PK
6		*	5940.375	55.747	49.645	-12.453	68.200	6.102	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:54
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

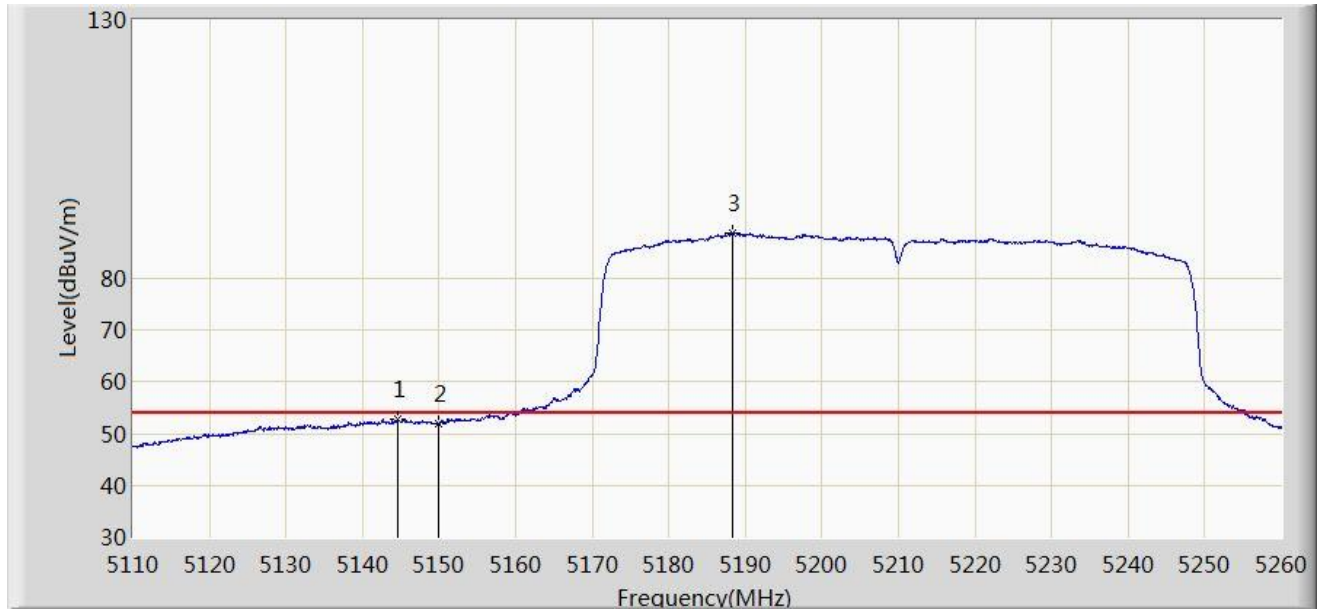


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5145.625	67.702	63.282	-6.298	74.000	4.420	PK
2			5150.000	65.799	61.357	-8.201	74.000	4.442	PK
3		*	5208.925	102.737	98.531	N/A	N/A	4.205	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:53
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

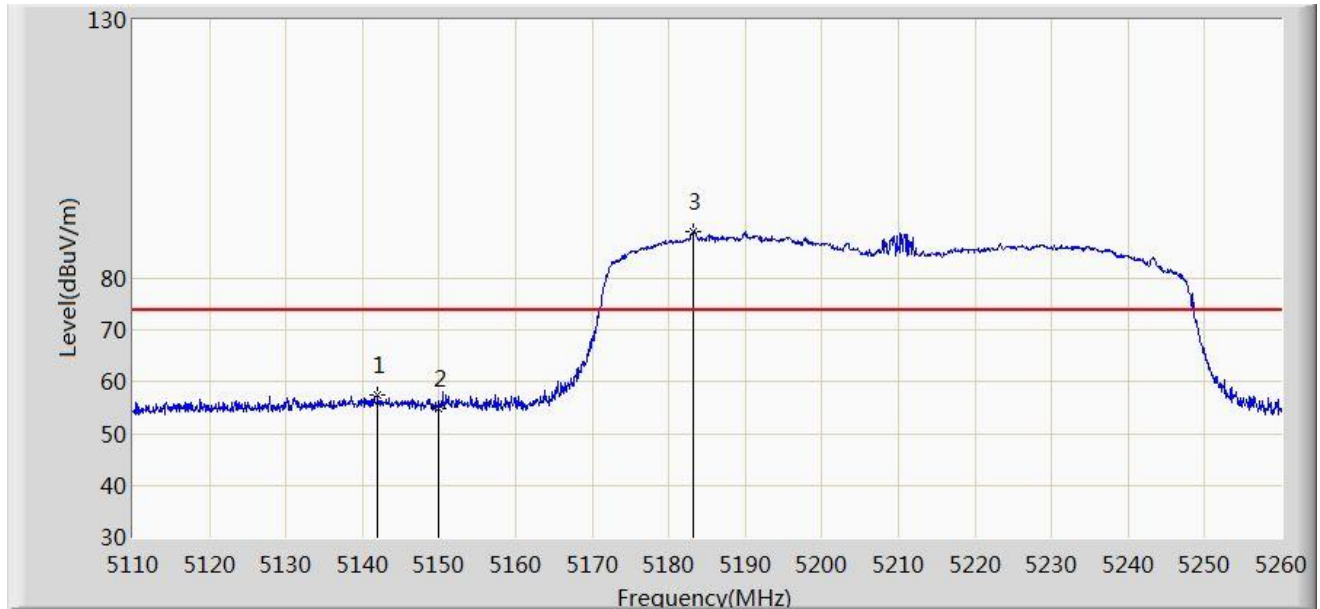


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5144.650	52.787	48.367	-1.213	54.000	4.420	AV
2			5150.000	51.948	47.506	-2.052	54.000	4.442	AV
3		*	5188.375	88.891	84.498	N/A	N/A	4.393	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:54
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

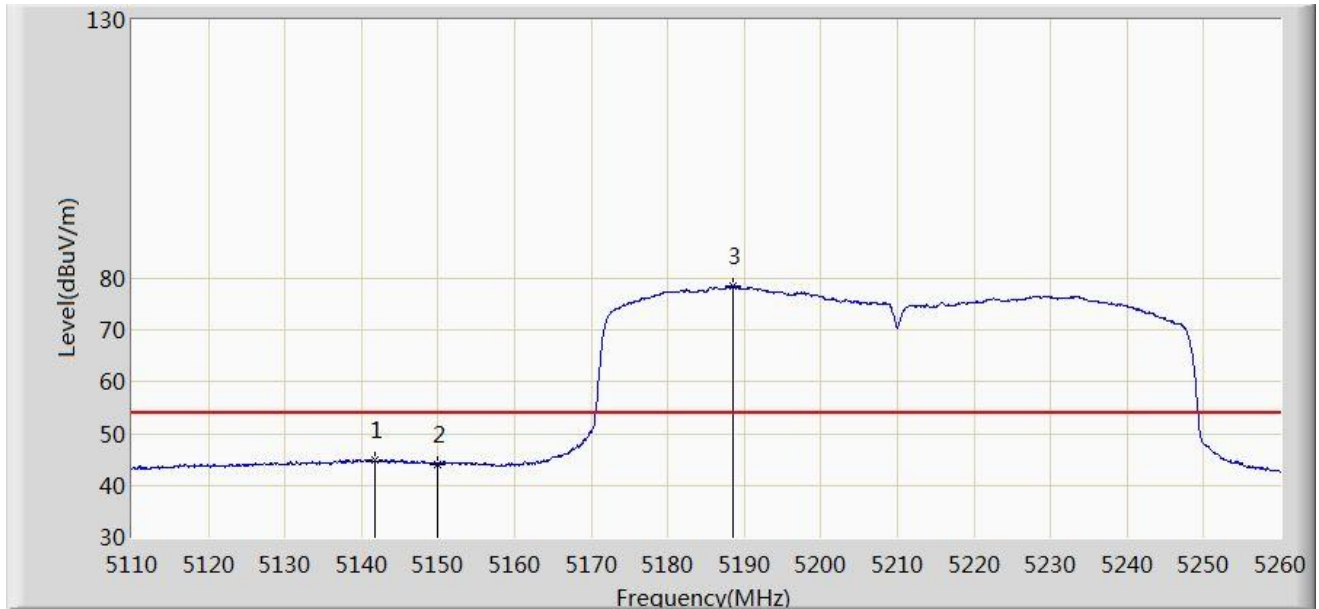


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5142.025	57.459	53.039	-16.541	74.000	4.420	PK
2			5150.000	54.973	50.531	-19.027	74.000	4.442	PK
3		*	5183.200	89.030	84.576	N/A	N/A	4.454	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:55
Limit: FCC_Part15.209_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

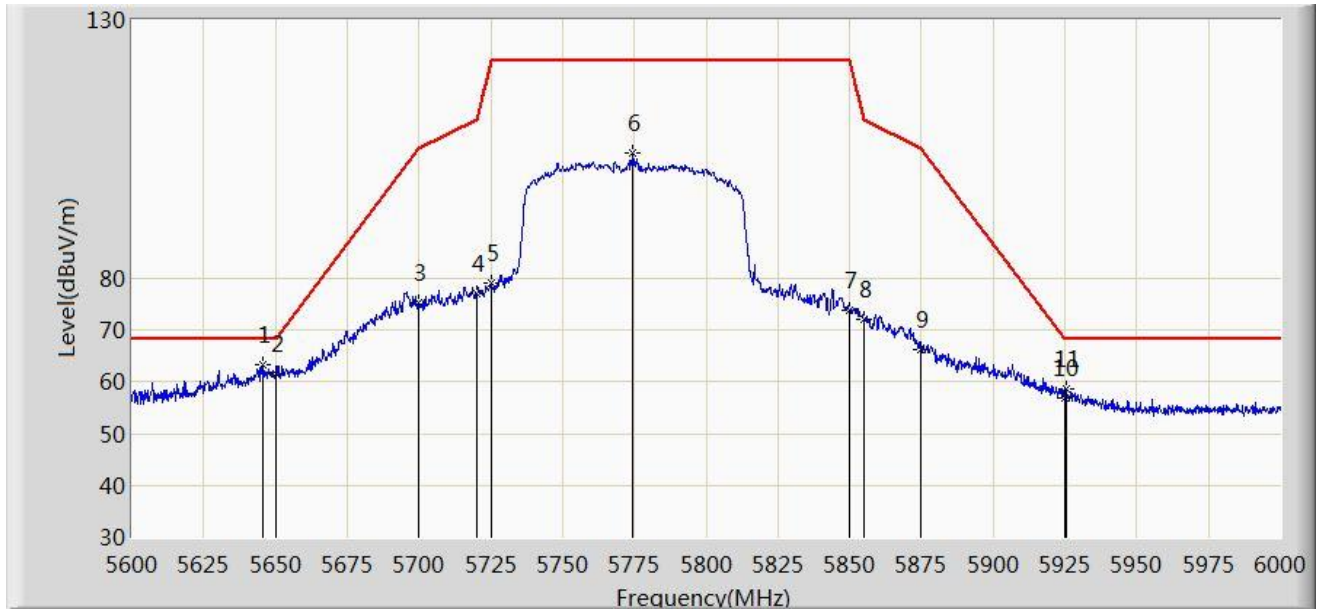


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5141.725	44.768	40.347	-9.232	54.000	4.421	AV
2			5150.000	44.178	39.736	-9.822	54.000	4.442	AV
3		*	5188.600	78.608	74.217	N/A	N/A	4.391	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:57
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz	

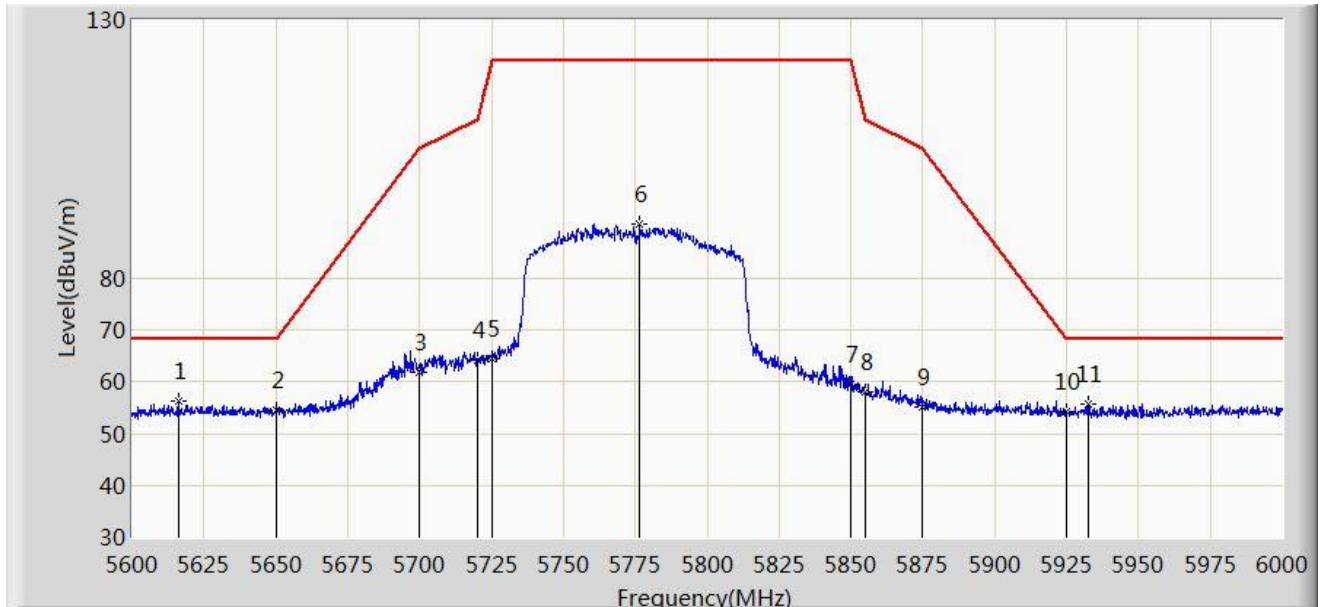


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5645.400	63.258	57.997	-4.942	68.200	5.261	PK
2			5650.000	61.572	56.236	-6.628	68.200	5.336	PK
3			5700.000	75.388	70.070	-29.812	105.200	5.318	PK
4			5720.000	77.115	71.641	-33.685	110.800	5.474	PK
5			5725.000	79.073	73.595	-43.127	122.200	5.478	PK
6			5774.600	104.135	98.396	N/A	N/A	5.740	PK
7			5850.000	73.778	67.809	-48.422	122.200	5.968	PK
8			5855.000	72.218	66.243	-38.582	110.800	5.975	PK
9			5875.000	66.262	60.249	-38.938	105.200	6.013	PK
10			5925.000	56.769	50.634	-11.431	68.200	6.136	PK
11			5925.400	58.790	52.653	-9.410	68.200	6.138	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/02/03 - 16:58
Limit: FCC_Part15.407_RSE (3m)	Engineer: Lewis Huang
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Notebook	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5616.200	56.297	51.221	-11.903	68.200	5.076	PK
2			5650.000	54.673	49.337	-13.527	68.200	5.336	PK
3			5700.000	61.899	56.581	-43.301	105.200	5.318	PK
4			5720.000	64.224	58.750	-46.576	110.800	5.474	PK
5			5725.000	64.600	59.122	-57.600	122.200	5.478	PK
6			5776.400	90.627	84.908	N/A	N/A	5.719	PK
7			5850.000	59.389	53.420	-62.811	122.200	5.968	PK
8			5855.000	57.956	51.981	-52.844	110.800	5.975	PK
9			5875.000	55.183	49.170	-50.017	105.200	6.013	PK
10			5925.000	54.153	48.018	-14.047	68.200	6.136	PK
11			5932.400	55.759	49.614	-12.441	68.200	6.145	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

7.9. AC Conducted Emissions Measurement

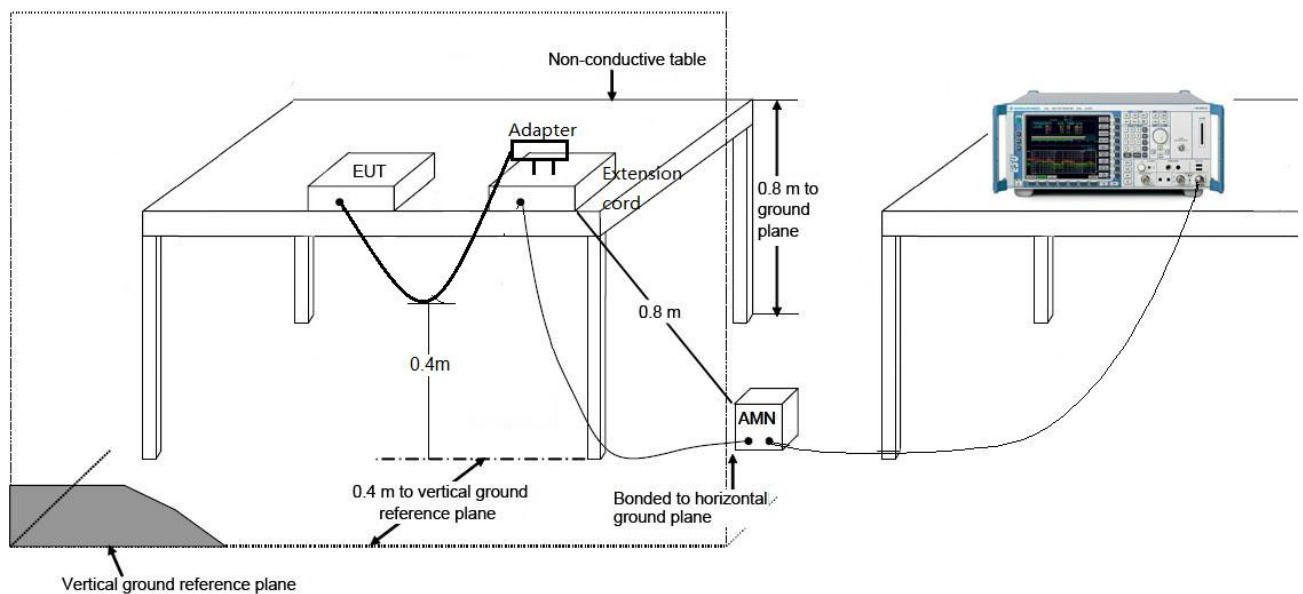
7.9.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

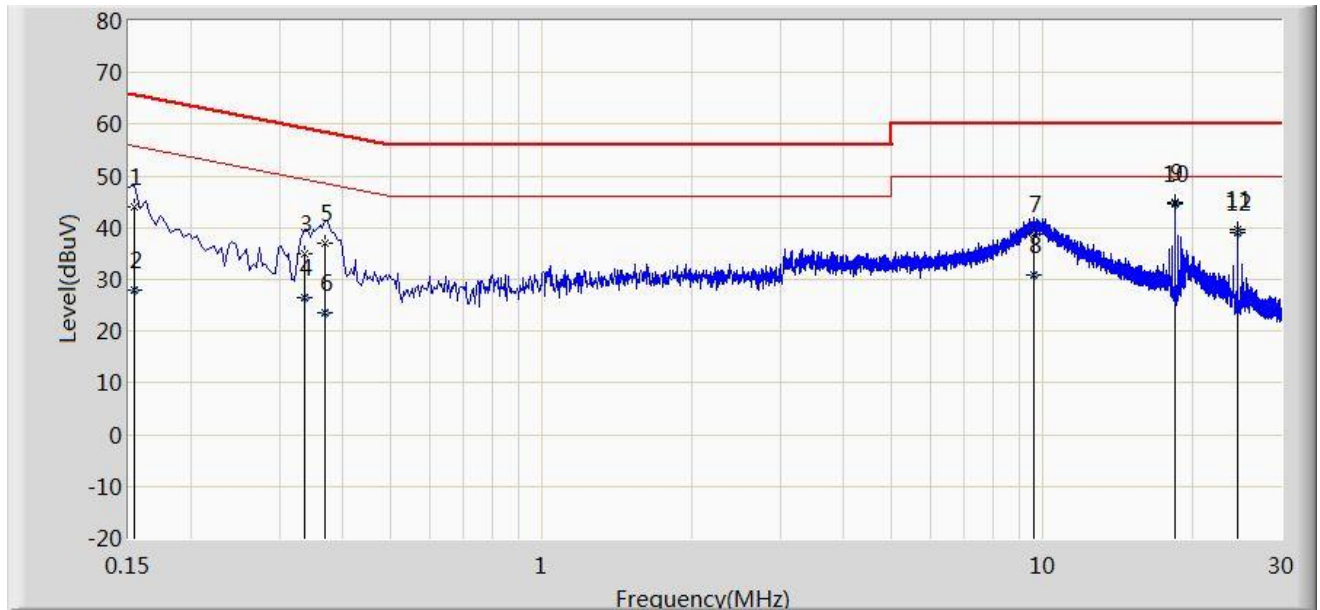
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.9.2. Test Setup



7.9.3.Test Result

Site: SR2	Time: 2020/02/05 - 16:10
Limit: FCC_Part15.207_CE_AC Power	Engineer: Lewis Huang
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Notebook	Power: AC 120V/60Hz
Worst Mode: Transmit by 802.11a at Channel 5180MHz	

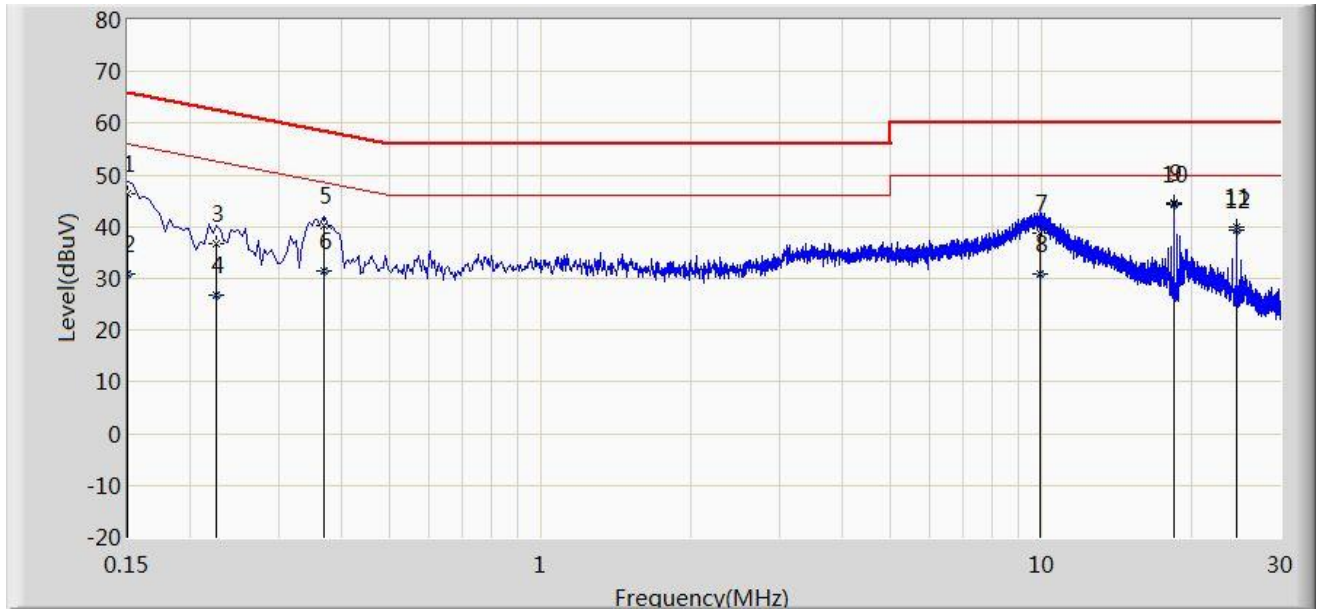


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	43.977	33.237	-21.805	65.781	10.740	QP
2			0.154	27.992	17.252	-27.790	55.781	10.740	AV
3			0.338	35.064	25.030	-24.188	59.252	10.034	QP
4			0.338	26.459	16.425	-22.793	49.252	10.034	AV
5			0.370	37.043	26.982	-21.458	58.501	10.061	QP
6			0.370	23.455	13.394	-25.046	48.501	10.061	AV
7			9.602	38.747	28.580	-21.253	60.000	10.167	QP
8			9.602	30.934	20.767	-19.066	50.000	10.167	AV
9			18.434	44.908	34.808	-15.092	60.000	10.100	QP
10		*	18.434	44.615	34.515	-5.385	50.000	10.100	AV
11			24.574	39.669	29.467	-20.331	60.000	10.202	QP
12			24.574	39.194	28.992	-10.806	50.000	10.202	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2020/02/05 - 16:18
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Notebook	Power: AC 120V/60Hz
Worst Mode: Transmit by 802.11a at Channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	46.489	35.347	-19.511	66.000	11.142	QP
2			0.150	30.890	19.748	-25.110	56.000	11.142	AV
3			0.226	36.609	26.626	-25.987	62.595	9.982	QP
4			0.226	26.662	16.679	-25.934	52.595	9.982	AV
5			0.370	40.145	30.055	-18.356	58.501	10.090	QP
6			0.370	31.455	21.365	-17.046	48.501	10.090	AV
7			9.966	38.782	28.618	-21.218	60.000	10.164	QP
8			9.966	30.820	20.656	-19.180	50.000	10.164	AV
9			18.434	44.552	34.415	-15.448	60.000	10.137	QP
10		*	18.434	44.256	34.119	-5.744	50.000	10.137	AV
11			24.578	40.008	29.721	-19.992	60.000	10.287	QP
12			24.578	39.493	29.206	-10.507	50.000	10.287	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that this device is compliance with Part 15E of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2002RSU005-UT” file.

Appendix B - EUT Photograph

Refer to "2002RSU005-UE" file.