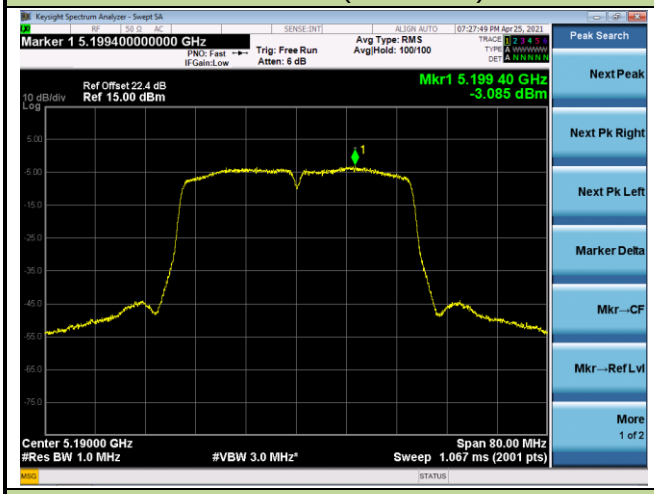
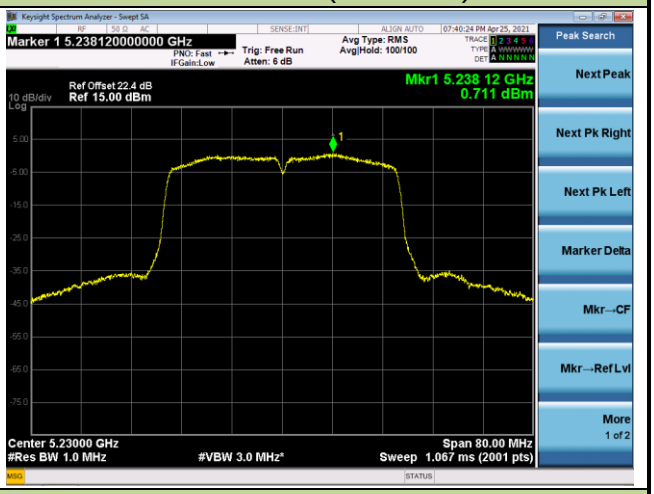
802.11ac-VHT40 Power Spectral Density - Ant 3

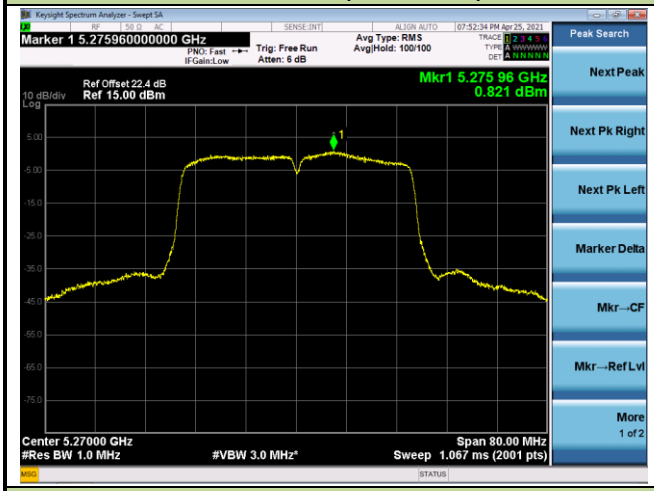
Channel 38 (5190MHz)



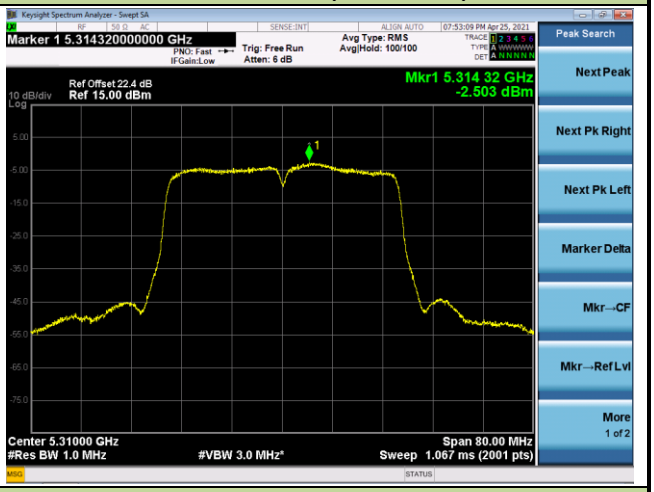
Channel 46 (5230MHz)



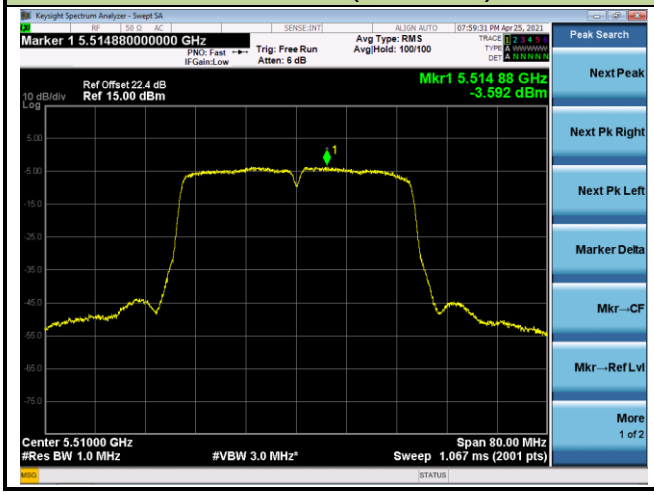
Channel 54 (5270MHz)



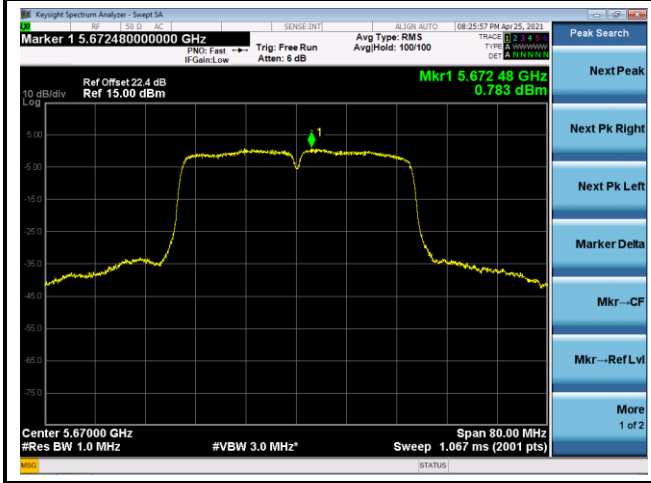
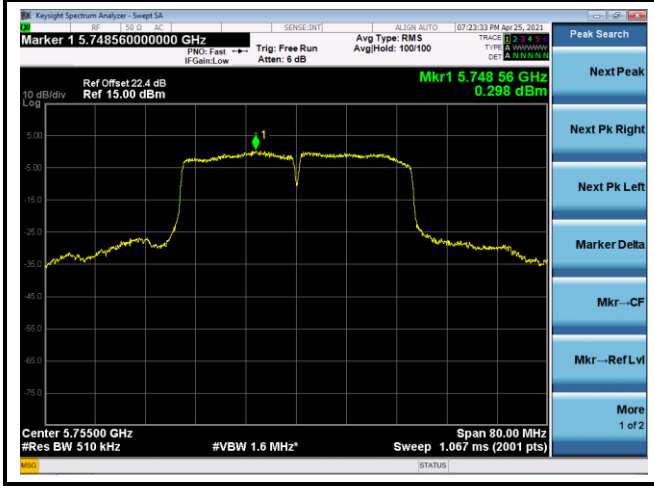
Channel 62 (5310MHz)



Channel 102 (5510MHz)

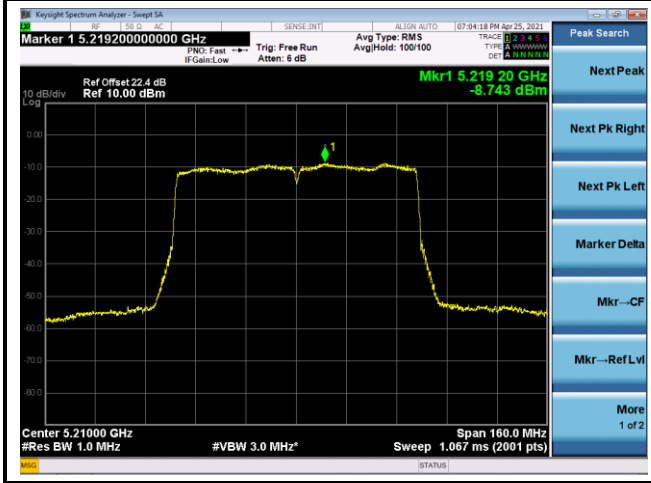


Channel 110 (5550MHz)

802.11ac-VHT40 Power Spectral Density - Ant 3	
Channel 134 (5670MHz)	Channel 142 (5710MHz)
	
Channel 151 (5755MHz)	Channel 159 (5795MHz)
	

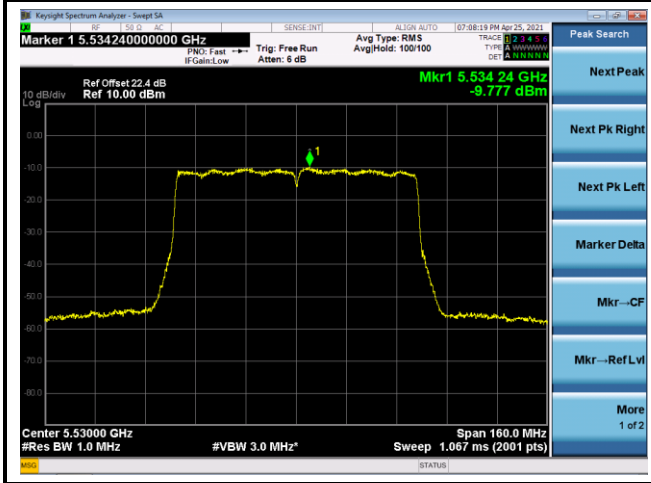
802.11ac-VHT80 Power Spectral Density - Ant 3

Channel 42 (5210MHz)



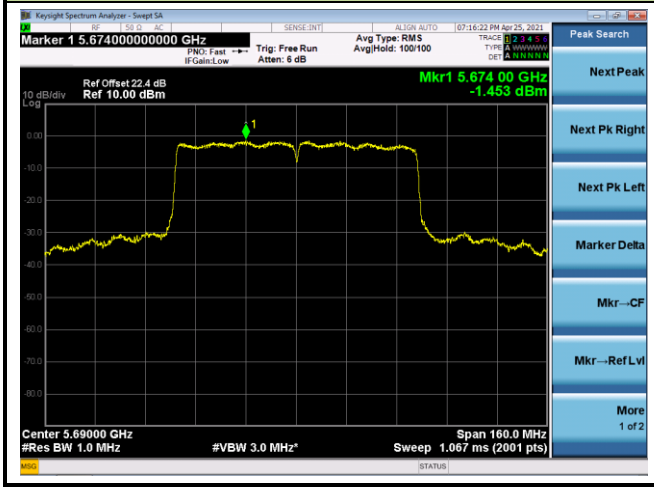
Channel 58 (5290MHz)

Channel 106 (5530MHz)

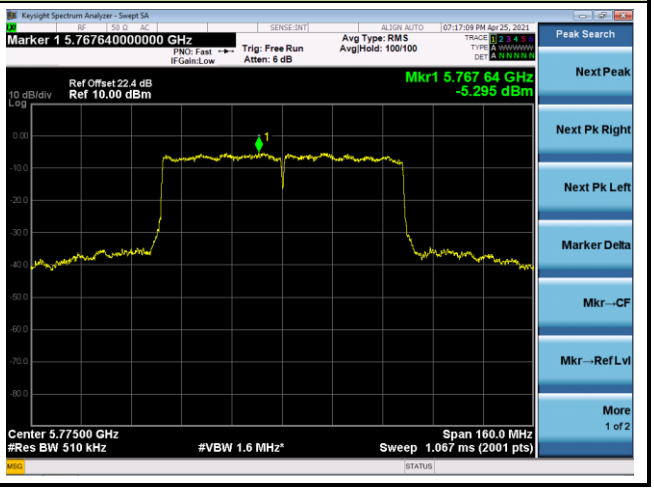


Channel 122 (5610MHz)

Channel 138 (5690MHz)

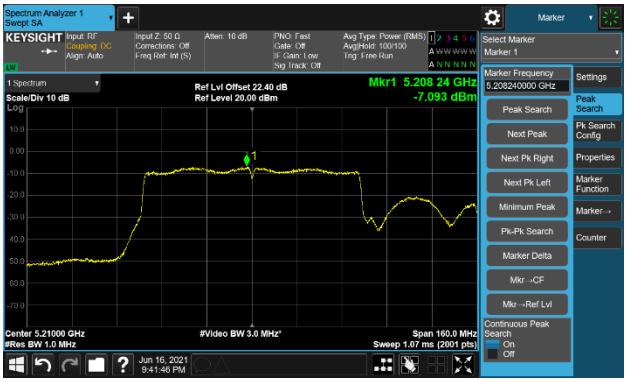


Channel 155 (5775MHz)

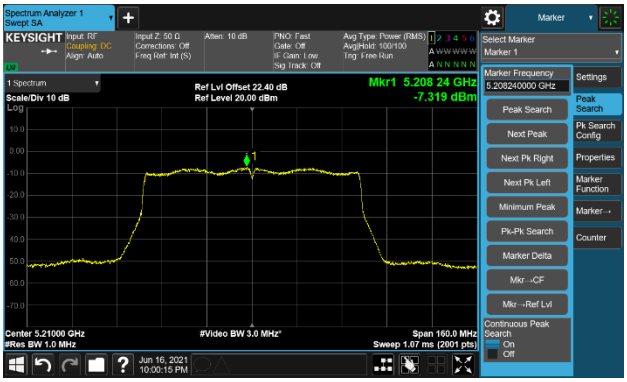


802.11ac-VHT80+80 Power Spectral Density - Ant 0

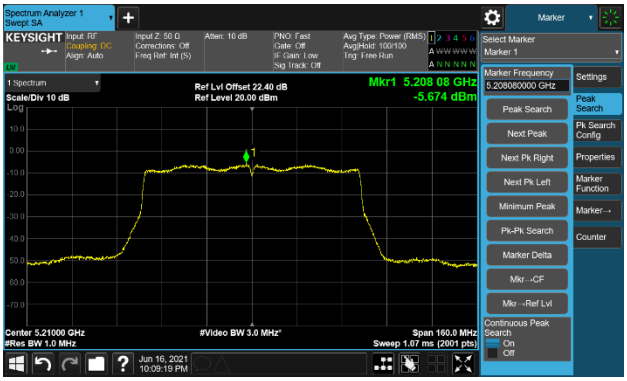
Channel 42 (5210MHz - 5210 + 5290)



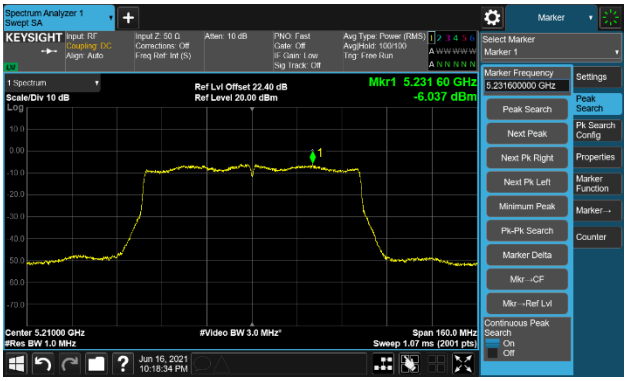
Channel 42 (5210MHz - 5210+5530)



Channel 42 (5210MHz - 5210+5610)

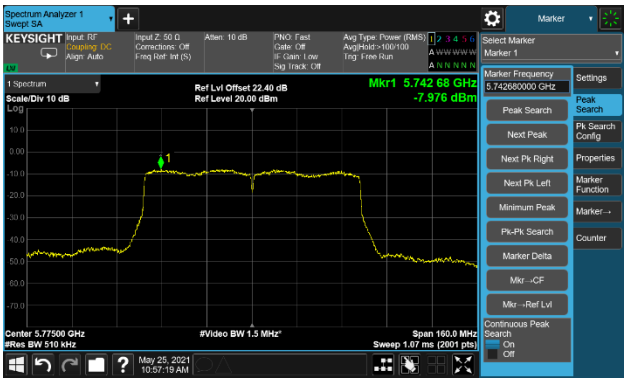


Channel 42 (5210MHz - 5210+5690)

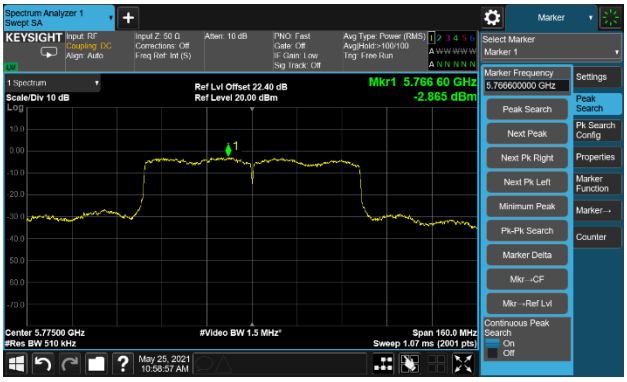


Channel 106 (5530MHz - 5530+5610)

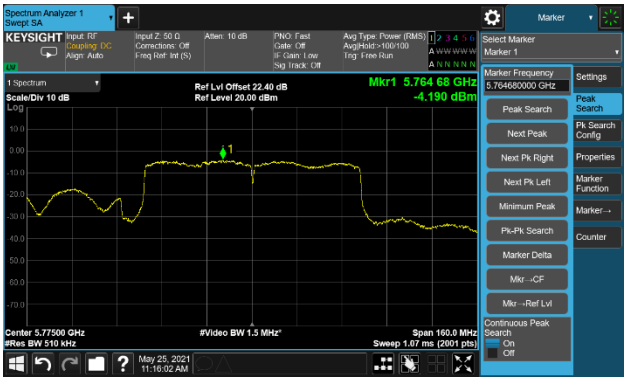
Channel 155 (5775MHz - 5775+5530)



Channel 155 (5775MHz - 5775+5610)



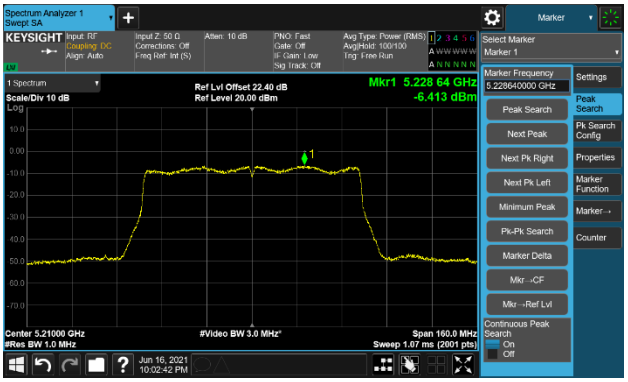
Channel 155 (5775MHz - 5775+5690)



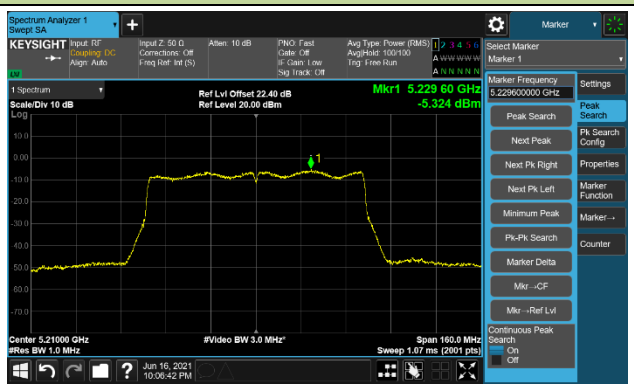
802.11ac-VHT80+80 Power Spectral Density - Ant 1

Channel 42 (5210MHz - 5210+5290)

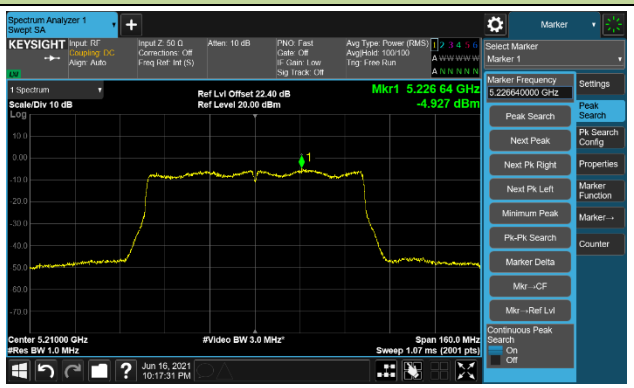
Channel 42 (5210MHz - 5210+5530)



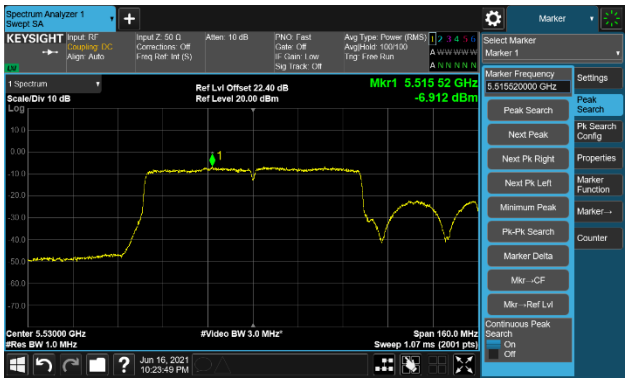
Channel 42 (5210MHz - 5210+5610)



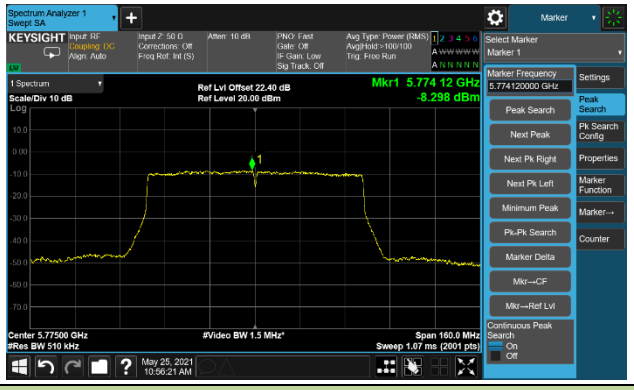
Channel 42 (5210MHz - 5210+5690)



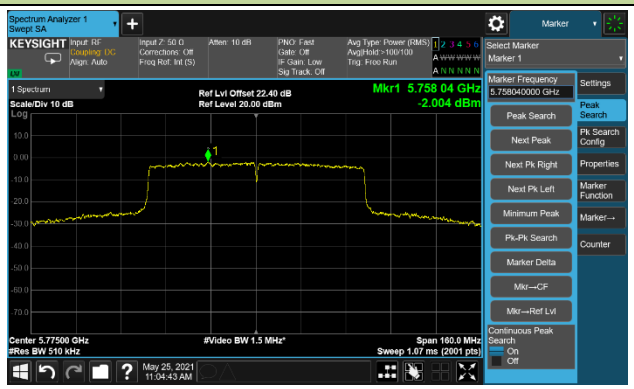
Channel 106 (5530MHz - 5530+5610)



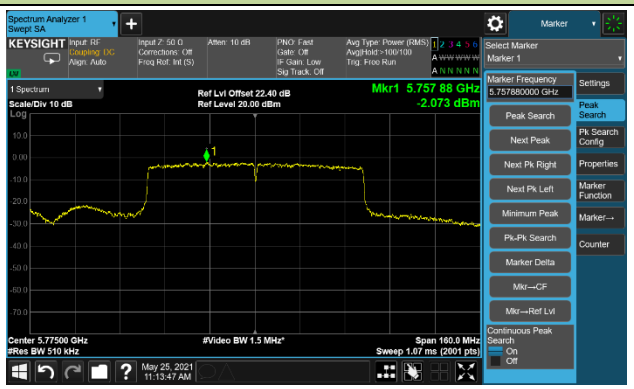
Channel 155 (5775MHz - 5775+5530)



Channel 155 (5775MHz - 5775+5610)

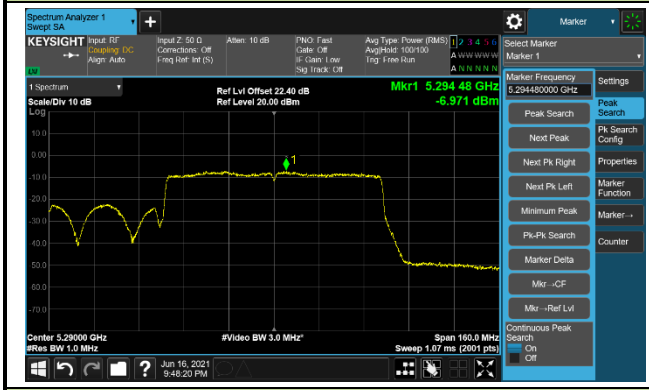


Channel 155 (5775MHz - 5775+5690)

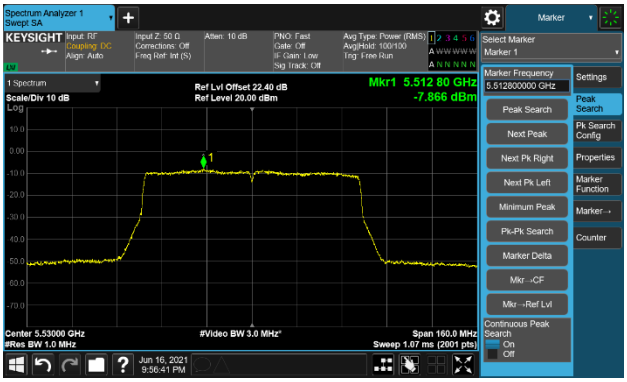


802.11ac-VHT80+80 Power Spectral Density - Ant 2

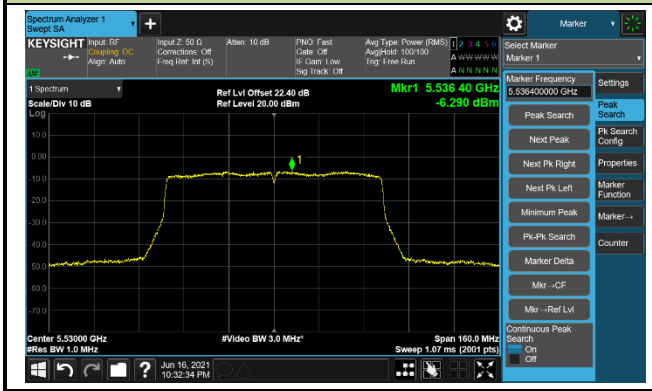
Channel 58 (5290MHz - 5210+5290)



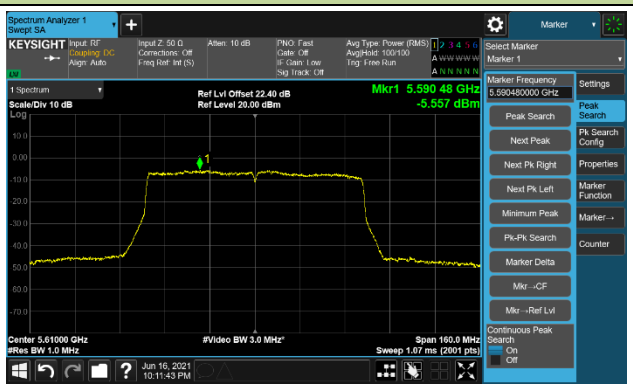
Channel 106 (5530MHz - 5210+5530)



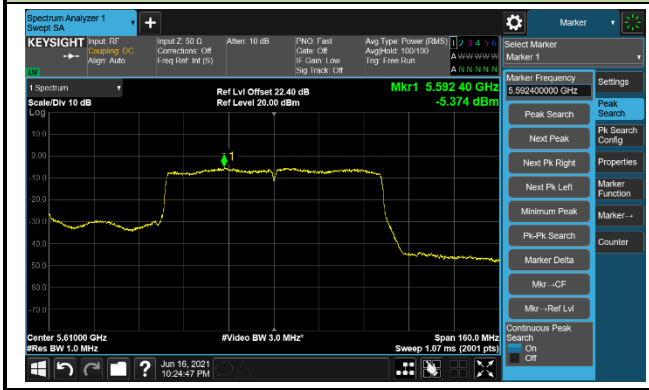
Channel 106 (5530MHz - 5775+5530)



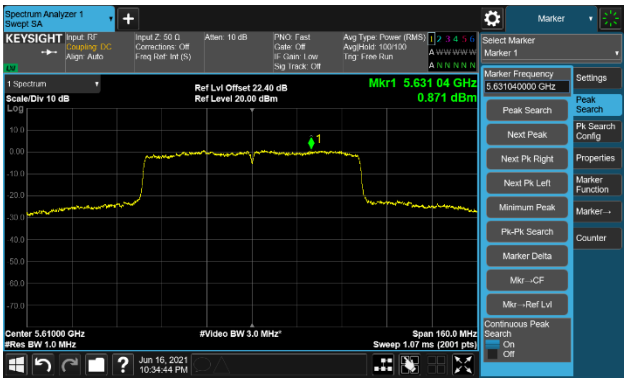
Channel 122 (5610MHz - 5210+5610)



Channel 122 (5610MHz - 5530+5610)

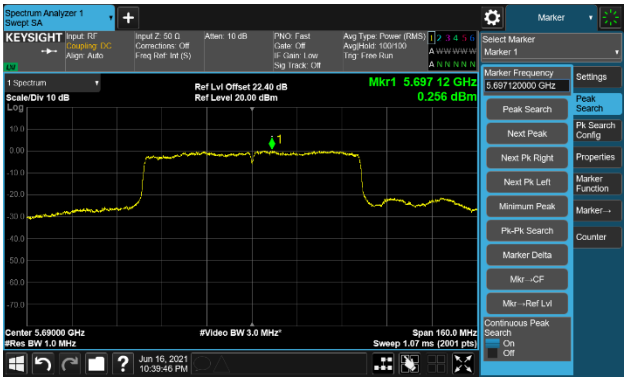


Channel 122 (5610MHz - 5775+5610)



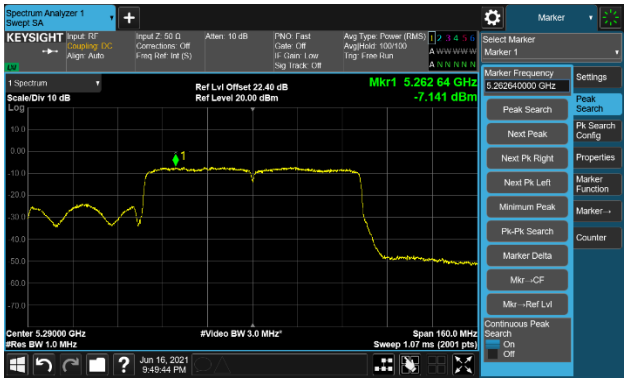
Channel 138 (5690MHz - 5210+5690)

Channel 138 (5690MHz - 5775+5690)

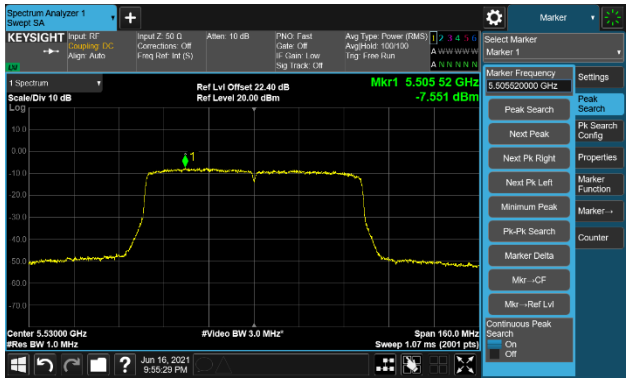


802.11ac-VHT80+80 Power Spectral Density - Ant 3

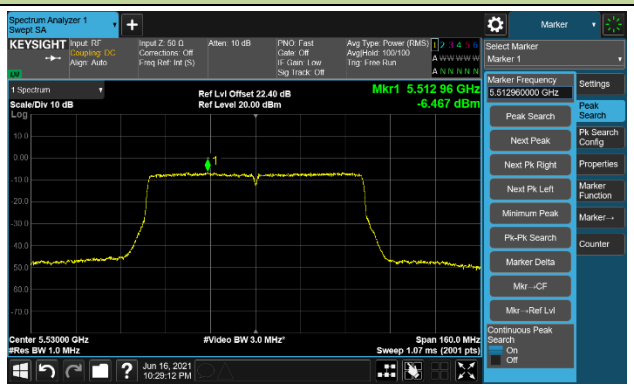
Channel 58 (5290MHz - 5210+5290)



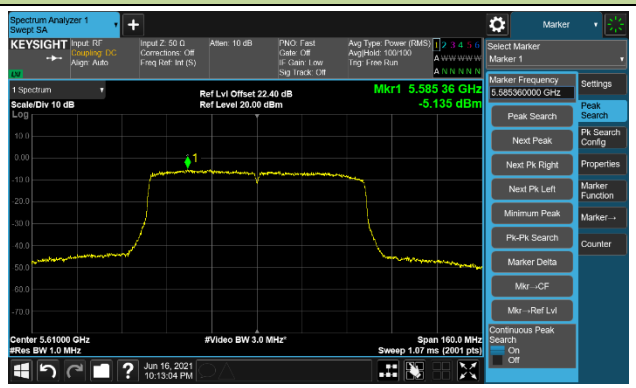
Channel 106 (5530MHz - 5210+5530)



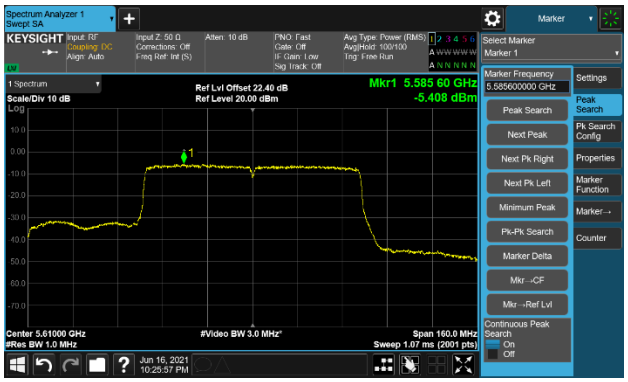
Channel 106 (5530MHz - 5775+5530)



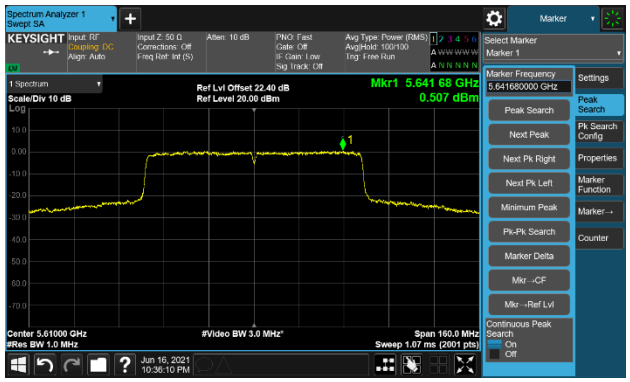
Channel 122 (5610MHz - 5210+5610)



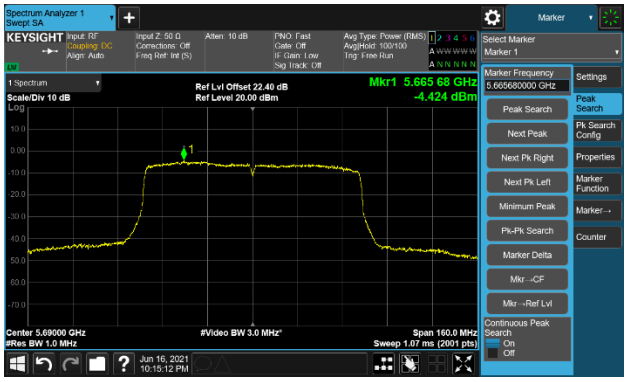
Channel 122 (5610MHz - 5530+5610)



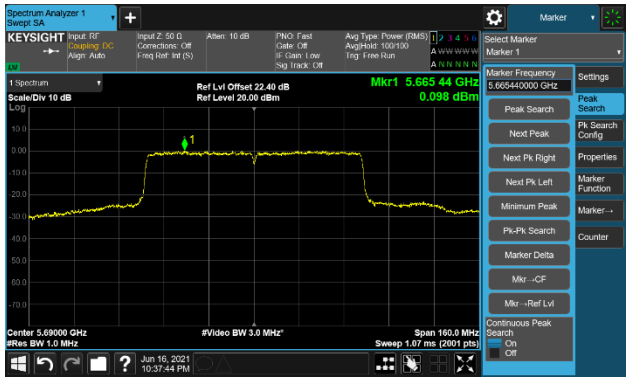
Channel 122 (5610MHz - 5775+5610)



Channel 138 (5690MHz - 5210+5690)



Channel 138 (5690MHz - 5775+5690)



5.7. Radiated Spurious Emission Measurement

5.7.1.Test Limit

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

FCC Part 15.209 Limit		
Frequency (MHz)	Field Strength (μV/m)	Measured Distance (m)
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

5.7.2.Test Procedure Used

KDB 789033 D02v02r01- Section G

5.7.3.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

<u>Quasi-Peak Measurements below 1GHz</u>

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 = 120kHz
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

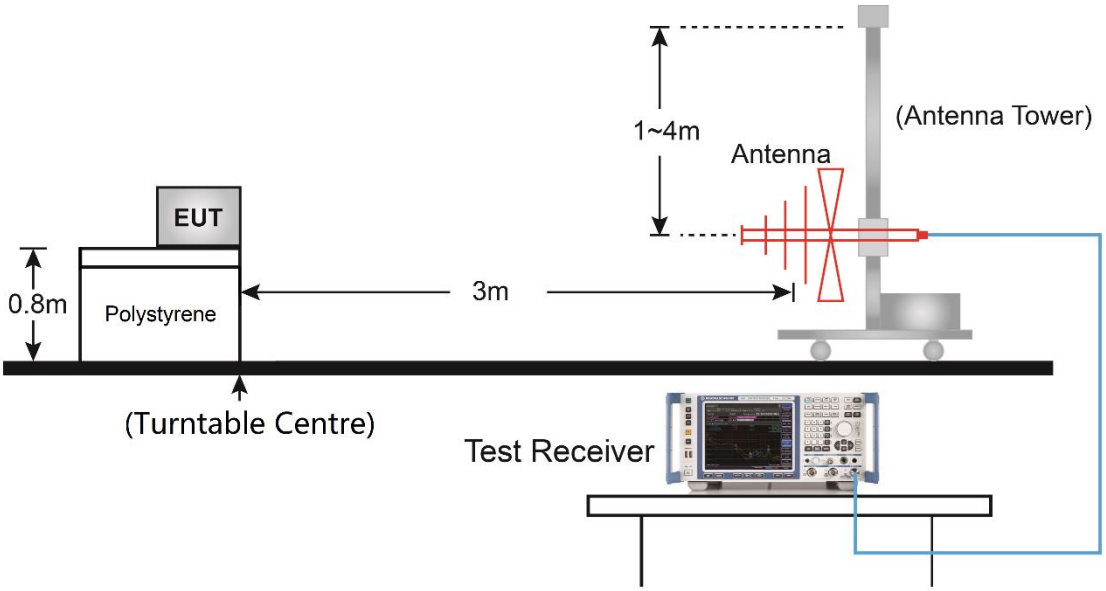
Average Measurements above 1GHz (Method VB)

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 ≥ 98%, set VBW = 10 Hz.

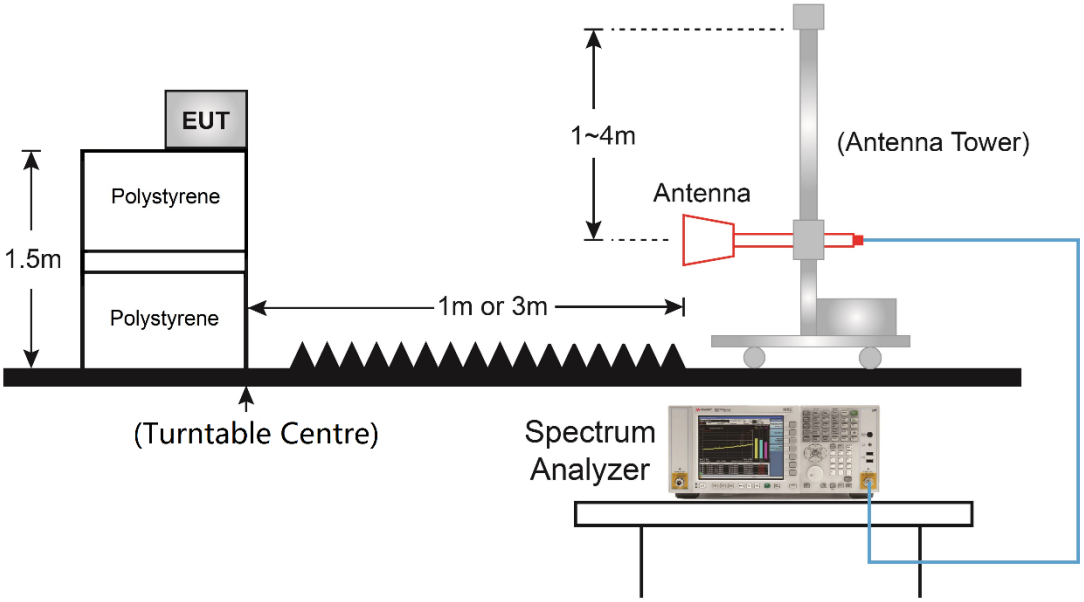
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

5.7.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.7.5.Test Result

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	36		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8395.0	38.9	10.1	49.0	74.0	-25.0	Peak	Horizontal
	9126.0	39.8	12.0	51.8	74.0	-22.2	Peak	Horizontal
*	10367.0	37.4	14.0	51.4	68.2	-16.8	Peak	Horizontal
*	12917.0	37.7	13.5	51.2	68.2	-17.0	Peak	Horizontal
	7332.5	37.9	9.6	47.5	74.0	-26.5	Peak	Vertical
	8148.5	38.3	10.1	48.4	74.0	-25.6	Peak	Vertical
*	8854.0	36.5	11.2	47.7	68.2	-20.5	Peak	Vertical
*	9721.0	35.6	13.4	49.0	68.2	-19.2	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	44		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7315.5	38.6	9.5	48.1	74.0	-25.9	Peak	Horizontal
	8310.0	37.6	10.1	47.7	74.0	-26.3	Peak	Horizontal
*	8769.0	37.9	11.4	49.3	68.2	-18.9	Peak	Horizontal
*	10044.0	36.9	13.3	50.2	68.2	-18.0	Peak	Horizontal
	7434.5	38.5	9.5	48.0	74.0	-26.0	Peak	Vertical
	8097.5	38.4	10.5	48.9	74.0	-25.1	Peak	Vertical
*	8905.0	37.6	11.5	49.1	68.2	-19.1	Peak	Vertical
*	9746.5	36.0	13.6	49.6	68.2	-18.6	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	48		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	38.3	9.7	48.0	74.0	-26.0	Peak	Horizontal
	8106.0	39.0	10.3	49.3	74.0	-24.7	Peak	Horizontal
*	9780.5	36.5	13.3	49.8	68.2	-18.4	Peak	Horizontal
*	12968.0	36.6	13.6	50.2	68.2	-18.0	Peak	Horizontal
	7672.5	38.7	9.5	48.2	74.0	-25.8	Peak	Vertical
	8352.5	38.1	10.0	48.1	74.0	-25.9	Peak	Vertical
*	9976.0	36.4	13.2	49.6	68.2	-18.6	Peak	Vertical
*	12781.0	35.1	13.2	48.3	68.2	-19.9	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	52		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7417.5	38.6	9.6	48.2	74.0	-25.8	Peak	Horizontal
	8412.0	38.3	10.1	48.4	74.0	-25.6	Peak	Horizontal
*	8769.0	36.2	11.4	47.6	68.2	-20.6	Peak	Horizontal
*	9993.0	35.0	13.5	48.5	68.2	-19.7	Peak	Horizontal
	7502.5	38.0	9.7	47.7	74.0	-26.3	Peak	Vertical
	8369.5	38.6	10.1	48.7	74.0	-25.3	Peak	Vertical
*	9993.0	35.0	13.5	48.5	68.2	-19.7	Peak	Vertical
*	12900.0	36.8	13.4	50.2	68.2	-18.0	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	60		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7732.0	38.8	9.6	48.4	74.0	-25.6	Peak	Horizontal
	8395.0	38.1	10.1	48.2	74.0	-25.8	Peak	Horizontal
*	8888.0	37.4	11.2	48.6	68.2	-19.6	Peak	Horizontal
*	9823.0	35.8	13.4	49.2	68.2	-19.0	Peak	Horizontal
	7553.5	37.2	9.7	46.9	74.0	-27.1	Peak	Vertical
	8131.5	36.8	10.3	47.1	74.0	-26.9	Peak	Vertical
*	8582.0	37.3	11.0	48.3	68.2	-19.9	Peak	Vertical
*	10299.0	36.8	13.7	50.5	68.2	-17.7	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	64		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7400.5	37.7	9.6	47.3	74.0	-26.7	Peak	Horizontal
	8454.5	39.3	10.4	49.7	74.0	-24.3	Peak	Horizontal
*	8709.5	37.4	11.4	48.8	68.2	-19.4	Peak	Horizontal
*	9772.0	36.3	13.4	49.7	68.2	-18.5	Peak	Horizontal
	7723.5	37.5	9.6	47.1	74.0	-26.9	Peak	Vertical
	8352.5	38.0	10.0	48.0	74.0	-26.0	Peak	Vertical
*	9245.0	36.0	12.7	48.7	68.2	-19.5	Peak	Vertical
*	10214.0	36.0	13.4	49.4	68.2	-18.8	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	100		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7689.5	38.8	9.6	48.4	74.0	-25.6	Peak	Horizontal
	8335.5	38.3	9.8	48.1	74.0	-25.9	Peak	Horizontal
*	8820.0	36.4	11.6	48.0	68.2	-20.2	Peak	Horizontal
*	9729.5	36.7	13.4	50.1	68.2	-18.1	Peak	Horizontal
	7417.5	38.1	9.6	47.7	74.0	-26.3	Peak	Vertical
	8250.5	38.0	10.2	48.2	74.0	-25.8	Peak	Vertical
*	9695.5	35.2	12.7	47.9	68.2	-20.3	Peak	Vertical
*	10316.0	35.7	13.8	49.5	68.2	-18.7	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	116		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7451.5	37.7	9.6	47.3	74.0	-26.7	Peak	Horizontal
	8361.0	38.4	10.1	48.5	74.0	-25.5	Peak	Horizontal
*	8692.5	36.4	11.5	47.9	68.2	-20.3	Peak	Horizontal
*	9899.5	35.7	13.3	49.0	68.2	-19.2	Peak	Horizontal
	7409.0	38.0	9.7	47.7	74.0	-26.3	Peak	Vertical
	8148.5	38.5	10.1	48.6	74.0	-25.4	Peak	Vertical
*	8760.5	37.5	11.4	48.9	68.2	-19.3	Peak	Vertical
*	10375.5	37.2	13.7	50.9	68.2	-17.3	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	140		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7451.5	37.5	9.6	47.1	74.0	-26.9	Peak	Horizontal
	8352.5	37.8	10.0	47.8	74.0	-26.2	Peak	Horizontal
*	8692.5	36.3	11.5	47.8	68.2	-20.4	Peak	Horizontal
*	9925.0	36.3	13.2	49.5	68.2	-18.7	Peak	Horizontal
	7400.5	38.1	9.6	47.7	74.0	-26.3	Peak	Vertical
	8352.5	38.0	10.0	48.0	74.0	-26.0	Peak	Vertical
*	10214.0	34.9	13.4	48.3	68.2	-19.9	Peak	Vertical
*	13129.5	36.2	13.5	49.7	68.2	-18.5	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	144		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7366.5	37.4	9.4	46.8	74.0	-27.2	Peak	Horizontal
	8259.0	38.7	10.3	49.0	74.0	-25.0	Peak	Horizontal
*	9627.5	37.6	12.9	50.5	68.2	-17.7	Peak	Horizontal
*	12840.5	35.1	13.3	48.4	68.2	-19.8	Peak	Horizontal
	7443.0	39.2	9.5	48.7	74.0	-25.3	Peak	Vertical
	9092.0	35.4	12.0	47.4	74.0	-26.6	Peak	Vertical
*	9780.5	37.5	13.3	50.8	68.2	-17.4	Peak	Vertical
*	13826.5	36.9	15.1	52.0	68.2	-16.2	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	149		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7672.5	37.8	9.5	47.3	74.0	-26.7	Peak	Horizontal
	8225.0	38.7	10.3	49.0	74.0	-25.0	Peak	Horizontal
*	10358.5	36.7	14.3	51.0	68.2	-17.2	Peak	Horizontal
*	12857.5	36.4	13.7	50.1	68.2	-18.1	Peak	Horizontal
	7502.5	38.0	9.7	47.7	74.0	-26.3	Peak	Vertical
	8259.0	38.5	10.3	48.8	74.0	-25.2	Peak	Vertical
*	9848.5	36.3	13.4	49.7	68.2	-18.5	Peak	Vertical
*	12951.0	34.6	13.6	48.2	68.2	-20.0	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	157		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7604.5	36.5	9.4	45.9	74.0	-28.1	Peak	Horizontal
	9100.5	34.5	12.2	46.7	74.0	-27.3	Peak	Horizontal
*	10154.5	36.6	13.6	50.2	68.2	-18.0	Peak	Horizontal
*	13044.5	36.9	13.5	50.4	68.2	-17.8	Peak	Horizontal
	7596.0	37.9	9.4	47.3	74.0	-26.7	Peak	Vertical
	8157.0	38.2	10.2	48.4	74.0	-25.6	Peak	Vertical
*	9721.0	35.8	13.4	49.2	68.2	-19.0	Peak	Vertical
*	12908.5	35.1	13.5	48.6	68.2	-19.6	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11a
Test Channel	165		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7451.5	37.9	9.6	47.5	74.0	-26.5	Peak	Horizontal
	8259.0	38.0	10.3	48.3	74.0	-25.7	Peak	Horizontal
*	10477.5	36.0	14.4	50.4	68.2	-17.8	Peak	Horizontal
*	12866.0	36.1	13.7	49.8	68.2	-18.4	Peak	Horizontal
	7332.5	37.8	9.6	47.4	74.0	-26.6	Peak	Vertical
	8310.0	37.8	10.1	47.9	74.0	-26.1	Peak	Vertical
*	9738.0	35.9	13.5	49.4	68.2	-18.8	Peak	Vertical
*	10316.0	34.9	13.8	48.7	68.2	-19.5	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	36		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7553.5	34.2	12.1	46.3	74.0	-27.7	Peak	Horizontal
	8259.0	33.4	12.2	45.6	74.0	-28.4	Peak	Horizontal
*	9857.0	33.5	15.4	48.9	68.2	-19.3	Peak	Horizontal
*	10358.5	38.5	16.6	55.1	68.2	-13.1	Peak	Horizontal
	7630.0	35.4	12.0	47.4	74.0	-26.6	Peak	Vertical
	8276.0	34.5	11.9	46.4	74.0	-27.6	Peak	Vertical
*	9636.0	34.3	14.9	49.2	68.2	-19.0	Peak	Vertical
*	10358.5	37.9	16.6	54.5	68.2	-13.7	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	44		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	32.1	12.1	44.2	74.0	-29.8	Peak	Horizontal
	8301.5	32.4	11.9	44.3	74.0	-29.7	Peak	Horizontal
*	9636.0	33.5	14.9	48.4	68.2	-19.8	Peak	Horizontal
*	10435.0	36.3	16.7	53.0	68.2	-15.2	Peak	Horizontal
	7519.5	33.1	12.1	45.2	74.0	-28.8	Peak	Vertical
	8242.0	33.8	12.2	46.0	74.0	-28.0	Peak	Vertical
*	9772.0	33.9	15.1	49.0	68.2	-19.2	Peak	Vertical
*	10443.5	36.1	16.7	52.8	68.2	-15.4	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	48		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7519.5	32.5	12.1	44.6	74.0	-29.4	Peak	Horizontal
	8276.0	32.7	11.9	44.6	74.0	-29.4	Peak	Horizontal
*	8735.0	33.3	13.8	47.1	68.2	-21.1	Peak	Horizontal
*	10486.0	34.8	16.7	51.5	68.2	-16.7	Peak	Horizontal
	7536.5	33.0	12.1	45.1	74.0	-28.9	Peak	Vertical
	8259.0	33.7	12.2	45.9	74.0	-28.1	Peak	Vertical
*	8701.0	32.1	13.8	45.9	68.2	-22.3	Peak	Vertical
*	10477.5	35.8	16.7	52.5	68.2	-15.7	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	52		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	33.6	12.3	45.9	74.0	-28.1	Peak	Horizontal
	8199.5	34.5	12.3	46.8	74.0	-27.2	Peak	Horizontal
*	9729.5	33.8	14.9	48.7	68.2	-19.5	Peak	Horizontal
*	10528.5	35.4	16.5	51.9	68.2	-16.3	Peak	Horizontal
	7468.5	33.5	12.1	45.6	74.0	-28.4	Peak	Vertical
	8208.0	32.7	12.1	44.8	74.0	-29.2	Peak	Vertical
*	9636.0	33.5	14.9	48.4	68.2	-19.8	Peak	Vertical
*	10511.5	36.0	16.5	52.5	68.2	-15.7	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	60		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	32.0	12.1	44.1	74.0	-29.9	Peak	Horizontal
	8199.5	32.0	12.3	44.3	74.0	-29.7	Peak	Horizontal
*	8837.0	32.7	14.3	47.0	68.2	-21.2	Peak	Horizontal
*	9865.5	32.7	15.5	48.2	68.2	-20.0	Peak	Horizontal
	7570.5	32.5	12.3	44.8	74.0	-29.2	Peak	Vertical
	8284.5	33.7	11.8	45.5	74.0	-28.5	Peak	Vertical
*	9721.0	34.3	14.9	49.2	68.2	-19.0	Peak	Vertical
*	10596.5	35.4	16.7	52.1	68.2	-16.1	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	64		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7553.5	32.4	12.1	44.5	74.0	-29.5	Peak	Horizontal
	8276.0	32.2	11.9	44.1	74.0	-29.9	Peak	Horizontal
*	8692.5	32.0	13.8	45.8	68.2	-22.4	Peak	Horizontal
*	10061.0	32.3	15.4	47.7	68.2	-20.5	Peak	Horizontal
	7460.0	32.3	12.0	44.3	74.0	-29.7	Peak	Vertical
	8242.0	33.2	12.2	45.4	74.0	-28.6	Peak	Vertical
*	8735.0	31.4	13.8	45.2	68.2	-23.0	Peak	Vertical
*	10044.0	34.4	15.5	49.9	68.2	-18.3	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	100		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	10996.0	35.9	17.9	53.8	74.0	-20.2	Peak	Horizontal
	10996.0	28.0	17.9	45.9	54.0	-8.1	Average	Horizontal
	11659.0	32.2	19.5	51.7	74.0	-22.3	Peak	Horizontal
*	13036.0	31.6	21.1	52.7	68.2	-15.5	Peak	Horizontal
*	13733.0	30.8	21.1	51.9	68.2	-16.3	Peak	Horizontal
	11004.5	38.2	17.8	56.0	74.0	-18.0	Peak	Vertical
	11004.5	30.5	17.8	48.3	54.0	-5.7	Average	Vertical
	12135.0	32.3	19.2	51.5	74.0	-22.5	Peak	Vertical
*	12993.5	32.1	20.1	52.2	68.2	-16.0	Peak	Vertical
*	13801.0	31.5	21.6	53.1	68.2	-15.1	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	116		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11157.5	35.2	18.0	53.2	74.0	-20.8	Peak	Horizontal
	11157.5	23.3	18.0	41.3	54.0	-12.7	Average	Horizontal
	11888.5	33.6	18.6	52.2	74.0	-21.8	Peak	Horizontal
*	12891.5	31.5	19.6	51.1	68.2	-17.1	Peak	Horizontal
*	13733.0	31.3	21.1	52.4	68.2	-15.8	Peak	Horizontal
	11157.5	38.2	18.0	56.2	74.0	-17.8	Peak	Vertical
	11157.5	26.8	18.0	44.8	54.0	-9.2	Average	Vertical
	12084.0	32.1	19.0	51.1	74.0	-22.9	Peak	Vertical
*	12942.5	32.9	20.0	52.9	68.2	-15.3	Peak	Vertical
*	13801.0	31.4	21.6	53.0	68.2	-15.2	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	140		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7545.0	32.4	12.1	44.5	74.0	-29.5	Peak	Horizontal
	8276.0	33.4	11.9	45.3	74.0	-28.7	Peak	Horizontal
*	8854.0	31.3	14.2	45.5	68.2	-22.7	Peak	Horizontal
*	10418.0	34.4	16.7	51.1	68.2	-17.1	Peak	Horizontal
	7502.5	33.5	12.3	45.8	74.0	-28.2	Peak	Vertical
	8327.0	33.9	12.2	46.1	74.0	-27.9	Peak	Vertical
*	8735.0	32.5	13.8	46.3	68.2	-21.9	Peak	Vertical
*	9908.0	32.4	15.4	47.8	68.2	-20.4	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	144		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7545.0	32.0	12.1	44.1	74.0	-29.9	Peak	Horizontal
	8310.0	32.5	12.0	44.5	74.0	-29.5	Peak	Horizontal
*	8769.0	31.3	14.2	45.5	68.2	-22.7	Peak	Horizontal
*	9959.0	32.3	15.6	47.9	68.2	-20.3	Peak	Horizontal
	7630.0	35.7	12.0	47.7	74.0	-26.3	Peak	Vertical
	8259.0	33.0	12.2	45.2	74.0	-28.8	Peak	Vertical
*	8769.0	31.7	14.2	45.9	68.2	-22.3	Peak	Vertical
*	9925.0	33.3	15.4	48.7	68.2	-19.5	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	149		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	10775.0	33.7	17.5	51.2	74.0	-22.8	Peak	Horizontal
	11489.0	37.2	18.7	55.9	74.0	-18.1	Peak	Horizontal
	11489.0	29.4	18.7	48.1	54.0	-5.9	Average	Horizontal
*	13010.5	30.5	20.4	50.9	68.2	-17.3	Peak	Horizontal
*	13733.0	31.2	21.1	52.3	68.2	-15.9	Peak	Horizontal
	11489.0	40.0	18.7	58.7	74.0	-15.3	Peak	Vertical
	11489.0	32.3	18.7	51.0	54.0	-3.0	Average	Vertical
	12177.5	31.4	19.4	50.8	74.0	-23.2	Peak	Vertical
*	12968.0	31.7	20.2	51.9	68.2	-16.3	Peak	Vertical
*	13886.0	31.2	21.6	52.8	68.2	-15.4	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	157		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	11574.0	39.8	19.1	58.9	74.0	-15.1	Peak	Horizontal
	11574.0	33.6	19.1	52.7	54.0	-1.3	Average	Horizontal
	12177.5	31.7	19.4	51.1	74.0	-22.9	Peak	Horizontal
*	13112.5	32.5	21.1	53.6	68.2	-14.6	Peak	Horizontal
*	14166.5	30.5	21.8	52.3	68.2	-15.9	Peak	Horizontal
	11565.5	40.6	18.9	59.5	74.0	-14.5	Peak	Vertical
	11565.5	34.1	18.9	53.0	54.0	-1.0	Average	Vertical
	12152.0	32.6	19.3	51.9	74.0	-22.1	Peak	Vertical
*	12951.0	30.7	20.1	50.8	68.2	-17.4	Peak	Vertical
*	14039.0	30.3	20.8	51.1	68.2	-17.1	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT20
Test Channel	165		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	10953.5	32.3	17.9	50.2	74.0	-23.8	Peak	Horizontal
	11659.0	40.7	19.5	60.2	74.0	-13.8	Peak	Horizontal
	11659.0	30.2	19.5	49.7	54.0	-4.3	Average	Horizontal
*	12891.5	30.7	19.6	50.3	68.2	-17.9	Peak	Horizontal
*	13733.0	32.0	21.1	53.1	68.2	-15.1	Peak	Horizontal
	10928.0	32.9	17.9	50.8	74.0	-23.2	Peak	Vertical
	11650.5	41.0	19.6	60.6	74.0	-13.4	Peak	Vertical
	11650.5	34.2	19.6	53.8	54.0	-0.2	Average	Vertical
*	13053.0	31.2	20.8	52.0	68.2	-16.2	Peak	Vertical
*	13733.0	31.3	21.1	52.4	68.2	-15.8	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	38		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7528.0	32.1	12.1	44.2	74.0	-29.8	Peak	Horizontal
	8267.5	31.9	12.1	44.0	74.0	-30.0	Peak	Horizontal
*	8769.0	31.7	14.2	45.9	68.2	-22.3	Peak	Horizontal
*	10069.5	33.0	15.3	48.3	68.2	-19.9	Peak	Horizontal
	7400.5	33.3	12.3	45.6	74.0	-28.4	Peak	Vertical
	8276.0	33.2	11.9	45.1	74.0	-28.9	Peak	Vertical
*	8769.0	31.6	14.2	45.8	68.2	-22.4	Peak	Vertical
*	9899.5	33.5	15.5	49.0	68.2	-19.2	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	46		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7570.5	32.3	12.3	44.6	74.0	-29.4	Peak	Horizontal
	8199.5	32.0	12.3	44.3	74.0	-29.7	Peak	Horizontal
*	8658.5	31.2	13.6	44.8	68.2	-23.4	Peak	Horizontal
*	9772.0	32.7	15.1	47.8	68.2	-20.4	Peak	Horizontal
	7536.5	32.0	12.1	44.1	74.0	-29.9	Peak	Vertical
	8165.5	31.8	12.6	44.4	74.0	-29.6	Peak	Vertical
*	8692.5	32.1	13.8	45.9	68.2	-22.3	Peak	Vertical
*	9984.5	31.1	15.5	46.6	68.2	-21.6	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	54		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7485.5	33.3	12.3	45.6	74.0	-28.4	Peak	Horizontal
	8335.5	33.5	12.2	45.7	74.0	-28.3	Peak	Horizontal
*	8735.0	32.0	13.8	45.8	68.2	-22.4	Peak	Horizontal
*	9797.5	33.7	15.3	49.0	68.2	-19.2	Peak	Horizontal
	7434.5	32.3	12.4	44.7	74.0	-29.3	Peak	Vertical
	8259.0	33.0	12.2	45.2	74.0	-28.8	Peak	Vertical
*	8735.0	31.2	13.8	45.0	68.2	-23.2	Peak	Vertical
*	9993.0	32.4	15.4	47.8	68.2	-20.4	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	62		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7426.0	33.8	12.5	46.3	74.0	-27.7	Peak	Horizontal
	8225.0	33.7	12.0	45.7	74.0	-28.3	Peak	Horizontal
*	8743.5	31.5	14.0	45.5	68.2	-22.7	Peak	Horizontal
*	9840.0	31.3	15.3	46.6	68.2	-21.6	Peak	Horizontal
	7536.5	32.5	12.1	44.6	74.0	-29.4	Peak	Vertical
	8174.0	32.1	12.6	44.7	74.0	-29.3	Peak	Vertical
*	8769.0	31.3	14.2	45.5	68.2	-22.7	Peak	Vertical
*	10001.5	32.4	15.4	47.8	68.2	-20.4	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	102		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7409.0	32.2	12.4	44.6	74.0	-29.4	Peak	Horizontal
	8276.0	33.8	11.9	45.7	74.0	-28.3	Peak	Horizontal
*	8769.0	32.0	14.2	46.2	68.2	-22.0	Peak	Horizontal
*	9908.0	31.8	15.4	47.2	68.2	-21.0	Peak	Horizontal
	7528.0	32.6	12.1	44.7	74.0	-29.3	Peak	Vertical
	8242.0	32.2	12.2	44.4	74.0	-29.6	Peak	Vertical
*	8769.0	31.3	14.2	45.5	68.2	-22.7	Peak	Vertical
*	9814.5	31.8	15.3	47.1	68.2	-21.1	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	110		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	32.2	12.3	44.5	74.0	-29.5	Peak	Horizontal
	8276.0	33.3	11.9	45.2	74.0	-28.8	Peak	Horizontal
*	8735.0	32.0	13.8	45.8	68.2	-22.4	Peak	Horizontal
*	9899.5	31.9	15.5	47.4	68.2	-20.8	Peak	Horizontal
	7400.5	36.2	12.3	48.5	74.0	-25.5	Peak	Vertical
	8191.0	33.3	12.4	45.7	74.0	-28.3	Peak	Vertical
*	8684.0	33.3	13.8	47.1	68.2	-21.1	Peak	Vertical
*	9908.0	33.2	15.4	48.6	68.2	-19.6	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	134		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7587.5	31.5	12.2	43.7	74.0	-30.3	Peak	Horizontal
	8276.0	32.5	11.9	44.4	74.0	-29.6	Peak	Horizontal
*	8769.0	31.5	14.2	45.7	68.2	-22.5	Peak	Horizontal
*	9916.5	31.4	15.4	46.8	68.2	-21.4	Peak	Horizontal
	7477.0	31.7	12.2	43.9	74.0	-30.1	Peak	Vertical
	8293.0	33.0	11.8	44.8	74.0	-29.2	Peak	Vertical
*	8786.0	31.0	14.1	45.1	68.2	-23.1	Peak	Vertical
*	9814.5	32.2	15.3	47.5	68.2	-20.7	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	142		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7426.0	32.9	12.5	45.4	74.0	-28.6	Peak	Horizontal
	8250.5	32.6	12.2	44.8	74.0	-29.2	Peak	Horizontal
*	8769.0	31.4	14.2	45.6	68.2	-22.6	Peak	Horizontal
*	9772.0	31.8	15.1	46.9	68.2	-21.3	Peak	Horizontal
	7494.0	33.8	12.3	46.1	74.0	-27.9	Peak	Vertical
	8276.0	32.8	11.9	44.7	74.0	-29.3	Peak	Vertical
*	8811.5	31.3	14.1	45.4	68.2	-22.8	Peak	Vertical
*	9865.5	32.9	15.5	48.4	68.2	-19.8	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	151		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	33.8	12.1	45.9	74.0	-28.1	Peak	Horizontal
	8259.0	34.4	12.2	46.6	74.0	-27.4	Peak	Horizontal
*	8811.5	31.9	14.1	46.0	68.2	-22.2	Peak	Horizontal
*	9848.5	33.0	15.4	48.4	68.2	-19.8	Peak	Horizontal
	7502.5	33.2	12.3	45.5	74.0	-28.5	Peak	Vertical
	8225.0	34.1	12.0	46.1	74.0	-27.9	Peak	Vertical
*	8769.0	31.9	14.2	46.1	68.2	-22.1	Peak	Vertical
*	9619.0	34.6	14.9	49.5	68.2	-18.7	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT40
Test Channel	159		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	33.8	12.4	46.2	74.0	-27.8	Peak	Horizontal
	8310.0	33.3	12.0	45.3	74.0	-28.7	Peak	Horizontal
*	8786.0	32.4	14.1	46.5	68.2	-21.7	Peak	Horizontal
*	9738.0	33.5	14.9	48.4	68.2	-19.8	Peak	Horizontal
	10843.0	33.0	18.0	51.0	74.0	-23.0	Peak	Vertical
	11616.5	33.6	18.9	52.5	74.0	-21.5	Peak	Vertical
*	12968.0	33.0	20.2	53.2	68.2	-15.0	Peak	Vertical
*	14039.0	30.8	20.8	51.6	68.2	-16.6	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7519.5	32.2	12.1	44.3	74.0	-29.7	Peak	Horizontal
	8225.0	33.3	12.0	45.3	74.0	-28.7	Peak	Horizontal
*	8692.5	31.4	13.8	45.2	68.2	-23.0	Peak	Horizontal
*	9882.5	32.1	15.5	47.6	68.2	-20.6	Peak	Horizontal
	7502.5	33.5	12.3	45.8	74.0	-28.2	Peak	Vertical
	8199.5	32.7	12.3	45.0	74.0	-29.0	Peak	Vertical
*	8769.0	32.1	14.2	46.3	68.2	-21.9	Peak	Vertical
*	9976.0	33.0	15.6	48.6	68.2	-19.6	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80
Test Channel	58		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7545.0	32.7	12.1	44.8	74.0	-29.2	Peak	Horizontal
	8208.0	33.0	12.1	45.1	74.0	-28.9	Peak	Horizontal
*	8769.0	32.0	14.2	46.2	68.2	-22.0	Peak	Horizontal
*	9738.0	33.4	14.9	48.3	68.2	-19.9	Peak	Horizontal
	7468.5	31.7	12.1	43.8	74.0	-30.2	Peak	Vertical
	8242.0	32.9	12.2	45.1	74.0	-28.9	Peak	Vertical
*	8769.0	31.0	14.2	45.2	68.2	-23.0	Peak	Vertical
*	9993.0	31.6	15.4	47.0	68.2	-21.2	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80
Test Channel	106		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7587.5	31.8	12.2	44.0	74.0	-30.0	Peak	Horizontal
	8208.0	33.2	12.1	45.3	74.0	-28.7	Peak	Horizontal
*	8786.0	31.9	14.1	46.0	68.2	-22.2	Peak	Horizontal
*	9857.0	31.7	15.4	47.1	68.2	-21.1	Peak	Horizontal
	7443.0	32.2	12.2	44.4	74.0	-29.6	Peak	Vertical
	8242.0	33.3	12.2	45.5	74.0	-28.5	Peak	Vertical
*	8735.0	33.1	13.8	46.9	68.2	-21.3	Peak	Vertical
*	9780.5	33.1	15.2	48.3	68.2	-19.9	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80
Test Channel	122		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	33.6	12.3	45.9	74.0	-28.1	Peak	Horizontal
	8242.0	32.8	12.2	45.0	74.0	-29.0	Peak	Horizontal
*	8735.0	31.0	13.8	44.8	68.2	-23.4	Peak	Horizontal
*	10112.0	34.6	15.3	49.9	68.2	-18.3	Peak	Horizontal
	7477.0	35.5	12.2	47.7	74.0	-26.3	Peak	Vertical
	8259.0	33.6	12.2	45.8	74.0	-28.2	Peak	Vertical
*	8692.5	33.1	13.8	46.9	68.2	-21.3	Peak	Vertical
*	9644.5	35.0	14.9	49.9	68.2	-18.3	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80
Test Channel	138		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	33.2	12.1	45.3	74.0	-28.7	Peak	Horizontal
	8284.5	32.3	11.8	44.1	74.0	-29.9	Peak	Horizontal
*	8752.0	31.3	14.1	45.4	68.2	-22.8	Peak	Horizontal
*	9772.0	32.4	15.1	47.5	68.2	-20.7	Peak	Horizontal
	7502.5	34.8	12.3	47.1	74.0	-26.9	Peak	Vertical
	8242.0	32.9	12.2	45.1	74.0	-28.9	Peak	Vertical
*	8701.0	31.9	13.8	45.7	68.2	-22.5	Peak	Vertical
*	9908.0	31.9	15.4	47.3	68.2	-20.9	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7570.5	34.0	12.3	46.3	74.0	-27.7	Peak	Horizontal
	8199.5	31.7	12.3	44.0	74.0	-30.0	Peak	Horizontal
*	8735.0	31.1	13.8	44.9	68.2	-23.3	Peak	Horizontal
*	9814.5	31.4	15.3	46.7	68.2	-21.5	Peak	Horizontal
	7434.5	33.0	12.4	45.4	74.0	-28.6	Peak	Vertical
	8284.5	32.5	11.8	44.3	74.0	-29.7	Peak	Vertical
*	8803.0	32.8	14.1	46.9	68.2	-21.3	Peak	Vertical
*	9899.5	32.3	15.5	47.8	68.2	-20.4	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	42+58		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	31.9	12.1	44.0	74.0	-30.0	Peak	Horizontal
	8199.5	32.1	12.3	44.4	74.0	-29.6	Peak	Horizontal
*	8718.0	31.0	13.7	44.7	68.2	-23.5	Peak	Horizontal
*	9857.0	31.6	15.4	47.0	68.2	-21.2	Peak	Horizontal
	7468.5	32.3	12.1	44.4	74.0	-29.6	Peak	Vertical
	8318.5	33.9	12.1	46.0	74.0	-28.0	Peak	Vertical
*	8760.5	31.8	14.2	46.0	68.2	-22.2	Peak	Vertical
*	9857.0	31.8	15.4	47.2	68.2	-21.0	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	42+106		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7443.0	34.4	12.2	46.6	74.0	-27.4	Peak	Horizontal
	8310.0	32.9	12.0	44.9	74.0	-29.1	Peak	Horizontal
*	8752.0	31.6	14.1	45.7	68.2	-22.5	Peak	Horizontal
*	9814.5	32.3	15.3	47.6	68.2	-20.6	Peak	Horizontal
	7400.5	32.7	12.3	45.0	74.0	-29.0	Peak	Vertical
	8250.5	33.3	12.2	45.5	74.0	-28.5	Peak	Vertical
*	8735.0	32.2	13.8	46.0	68.2	-22.2	Peak	Vertical
*	10120.5	33.1	15.3	48.4	68.2	-19.8	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	42+122		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7400.5	32.3	12.3	44.6	74.0	-29.4	Peak	Horizontal
	8191.0	32.4	12.4	44.8	74.0	-29.2	Peak	Horizontal
*	8692.5	31.3	13.8	45.1	68.2	-23.1	Peak	Horizontal
*	9899.5	32.8	15.5	48.3	68.2	-19.9	Peak	Horizontal
	7477.0	34.7	12.2	46.9	74.0	-27.1	Peak	Vertical
	8225.0	33.5	12.0	45.5	74.0	-28.5	Peak	Vertical
*	8769.0	31.6	14.2	45.8	68.2	-22.4	Peak	Vertical
*	9993.0	32.7	15.4	48.1	68.2	-20.1	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	42+138		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	34.7	12.3	47.0	74.0	-27.0	Peak	Horizontal
	8259.0	33.5	12.2	45.7	74.0	-28.3	Peak	Horizontal
*	8769.0	32.0	14.2	46.2	68.2	-22.0	Peak	Horizontal
*	10027.0	32.3	15.4	47.7	68.2	-20.5	Peak	Horizontal
	7511.0	33.0	12.2	45.2	74.0	-28.8	Peak	Vertical
	8199.5	32.0	12.3	44.3	74.0	-29.7	Peak	Vertical
*	8692.5	31.9	13.8	45.7	68.2	-22.5	Peak	Vertical
*	9959.0	31.1	15.6	46.7	68.2	-21.5	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	106+122		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	32.4	12.1	44.5	74.0	-29.5	Peak	Horizontal
	8242.0	32.8	12.2	45.0	74.0	-29.0	Peak	Horizontal
*	8820.0	32.7	14.1	46.8	68.2	-21.4	Peak	Horizontal
*	10120.5	33.4	15.3	48.7	68.2	-19.5	Peak	Horizontal
	7477.0	34.9	12.2	47.1	74.0	-26.9	Peak	Vertical
	8276.0	32.6	11.9	44.5	74.0	-29.5	Peak	Vertical
*	8811.5	30.8	14.1	44.9	68.2	-23.3	Peak	Vertical
*	10426.5	34.4	16.7	51.1	68.2	-17.1	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	155+106		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	33.3	12.3	45.6	74.0	-28.4	Peak	Horizontal
	8276.0	32.6	11.9	44.5	74.0	-29.5	Peak	Horizontal
*	8820.0	31.4	14.1	45.5	68.2	-22.7	Peak	Horizontal
*	9993.0	31.3	15.4	46.7	68.2	-21.5	Peak	Horizontal
	7375.0	36.6	12.1	48.7	74.0	-25.3	Peak	Vertical
	8216.5	33.7	12.1	45.8	74.0	-28.2	Peak	Vertical
*	8692.5	32.2	13.8	46.0	68.2	-22.2	Peak	Vertical
*	9874.0	32.2	15.5	47.7	68.2	-20.5	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	155+122		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7587.5	33.8	12.2	46.0	74.0	-28.0	Peak	Horizontal
	8310.0	32.8	12.0	44.8	74.0	-29.2	Peak	Horizontal
*	8709.5	31.3	13.8	45.1	68.2	-23.1	Peak	Horizontal
*	9814.5	33.6	15.3	48.9	68.2	-19.3	Peak	Horizontal
	7477.0	36.1	12.2	48.3	74.0	-25.7	Peak	Vertical
	8250.5	34.5	12.2	46.7	74.0	-27.3	Peak	Vertical
*	8701.0	32.3	13.8	46.1	68.2	-22.1	Peak	Vertical
*	9857.0	32.8	15.4	48.2	68.2	-20.0	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/m)

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

Test Site	WZ-AC1	Test Engineer	Buter Shi
Test Date	2021/04/17	Test Mode	802.11ac-VHT80+80
Test Channel	155+138		
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/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7536.5	32.2	12.1	44.3	74.0	-29.7	Peak	Horizontal
	8242.0	32.5	12.2	44.7	74.0	-29.3	Peak	Horizontal
*	8811.5	31.3	14.1	45.4	68.2	-22.8	Peak	Horizontal
*	9908.0	32.0	15.4	47.4	68.2	-20.8	Peak	Horizontal
	7536.5	32.3	12.1	44.4	74.0	-29.6	Peak	Vertical
	8276.0	32.7	11.9	44.6	74.0	-29.4	Peak	Vertical
*	8743.5	31.6	14.0	45.6	68.2	-22.6	Peak	Vertical
*	9993.0	33.3	15.4	48.7	68.2	-19.5	Peak	Vertical

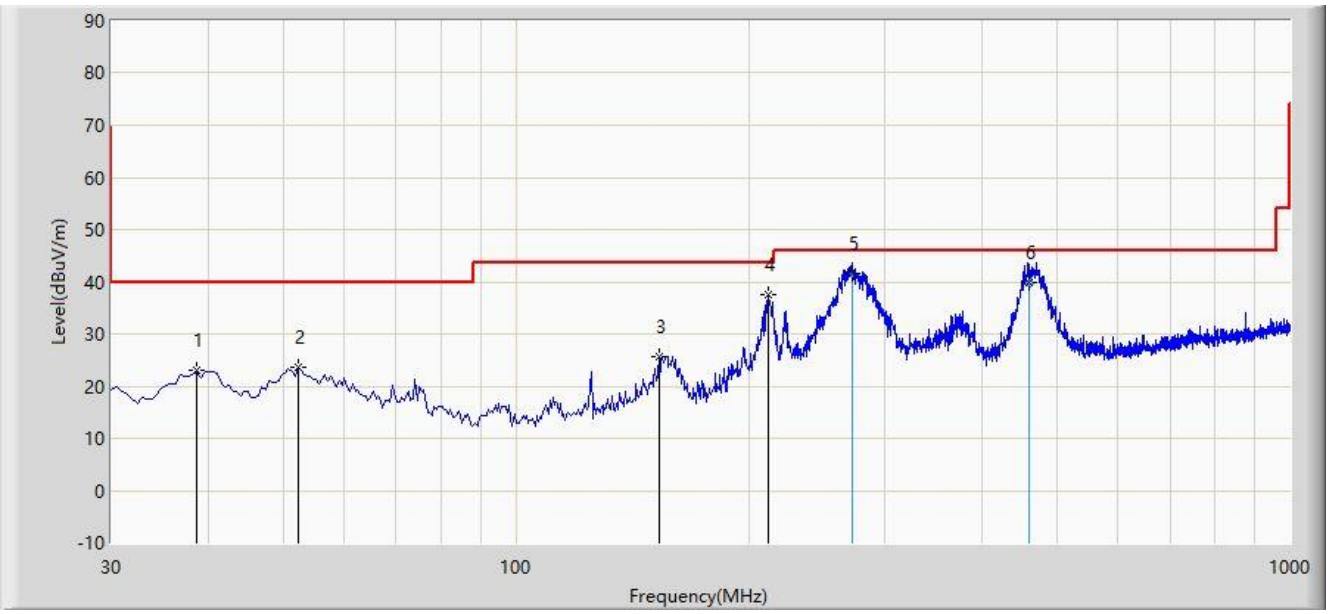
Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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

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

The Worst Case of Radiated Emission below 1GHz

Site: WZ-AC1	Time: 2021/07/07 - 20:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Tommy Tang
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			38.730	22.899	5.632	-17.101	40.000	17.267	PK
2			52.310	23.703	5.723	-16.297	40.000	17.980	PK
3			153.190	25.643	7.571	-17.857	43.500	18.072	PK
4			211.875	37.404	23.001	-6.096	43.500	14.403	PK
5		*	272.500	41.580	24.100	-4.420	46.000	17.480	QP
6			459.710	39.793	17.300	-6.207	46.000	22.493	QP

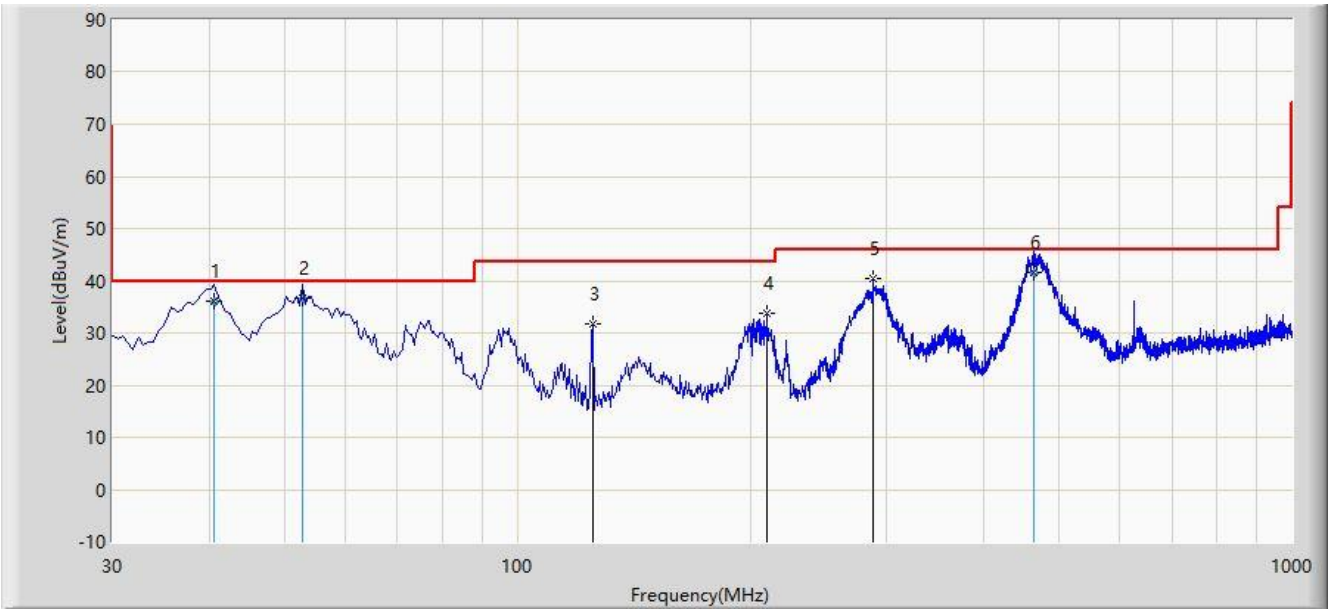
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz ~ 30MHz, 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: WZ-AC1	Time: 2021/07/07 - 20:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Tommy Tang
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			40.670	36.044	18.600	-3.956	40.000	17.444	QP
2		*	52.795	36.662	18.700	-3.338	40.000	17.962	QP
3			125.060	31.609	15.545	-11.891	43.500	16.064	PK
4			210.420	33.786	19.408	-9.714	43.500	14.378	PK
5			288.020	40.317	22.238	-5.683	46.000	18.079	PK
6			463.590	41.630	19.100	-4.370	46.000	22.530	QP

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

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

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz ~ 30MHz, 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

5.8. Radiated Restricted Band Edge Measurement

5.8.1.Test Limit

For 15.205 Requirement:

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.

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

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v01r04 G)2)c), 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.

FCC Part 15.209 Limit		
Frequency (MHz)	Field Strength (μV/m)	Measured Distance (m)
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

5.8.2.Test Procedure Used

KDB 789033 D02v02r01- Section G

5.8.3.Test Setting

Peak Measurements above 1GHz

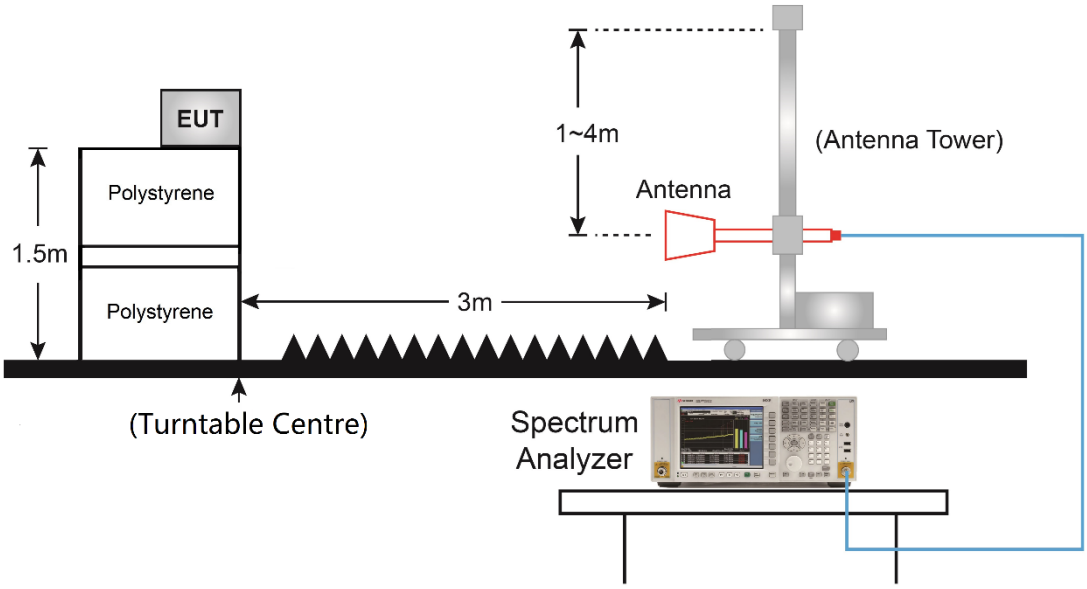
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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 ≥ 98%, set VBW = 10 Hz.

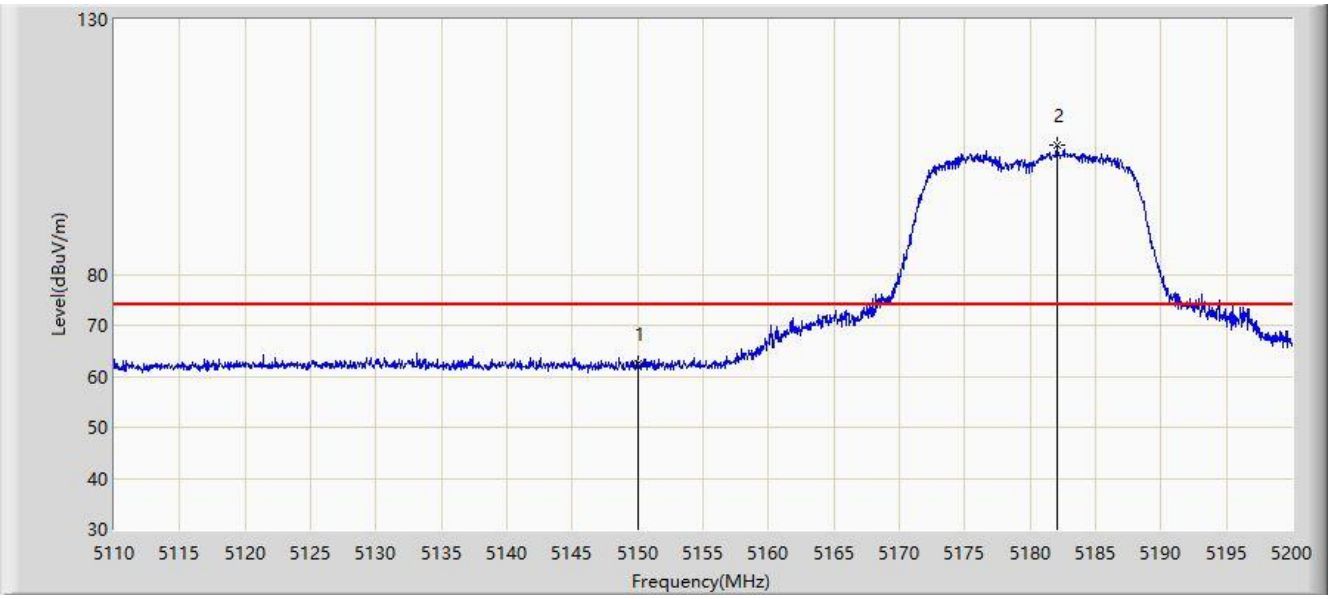
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

5.8.4.Test Setup



5.8.5.Test Result

Site: WZ-AC1	Time: 2021/04/18 - 16:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

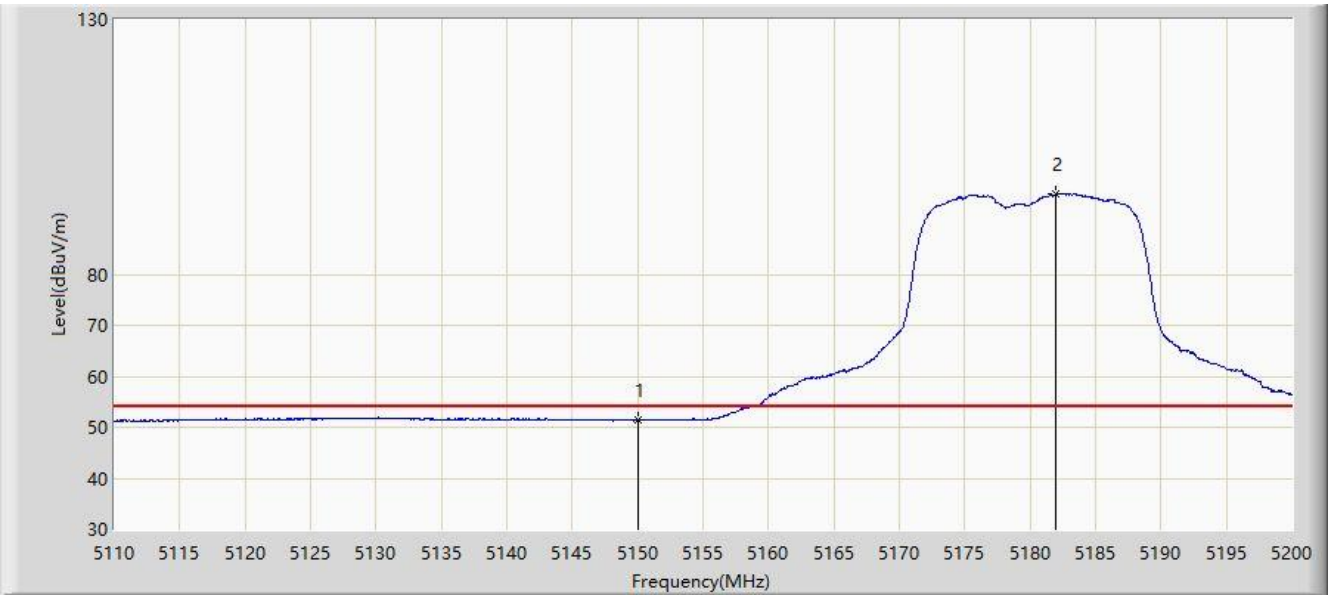


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5150.000	62.516	56.983	-11.484	74.000	5.534	PK
2		*	5182.045	105.292	99.532	N/A	N/A	5.760	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 16:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

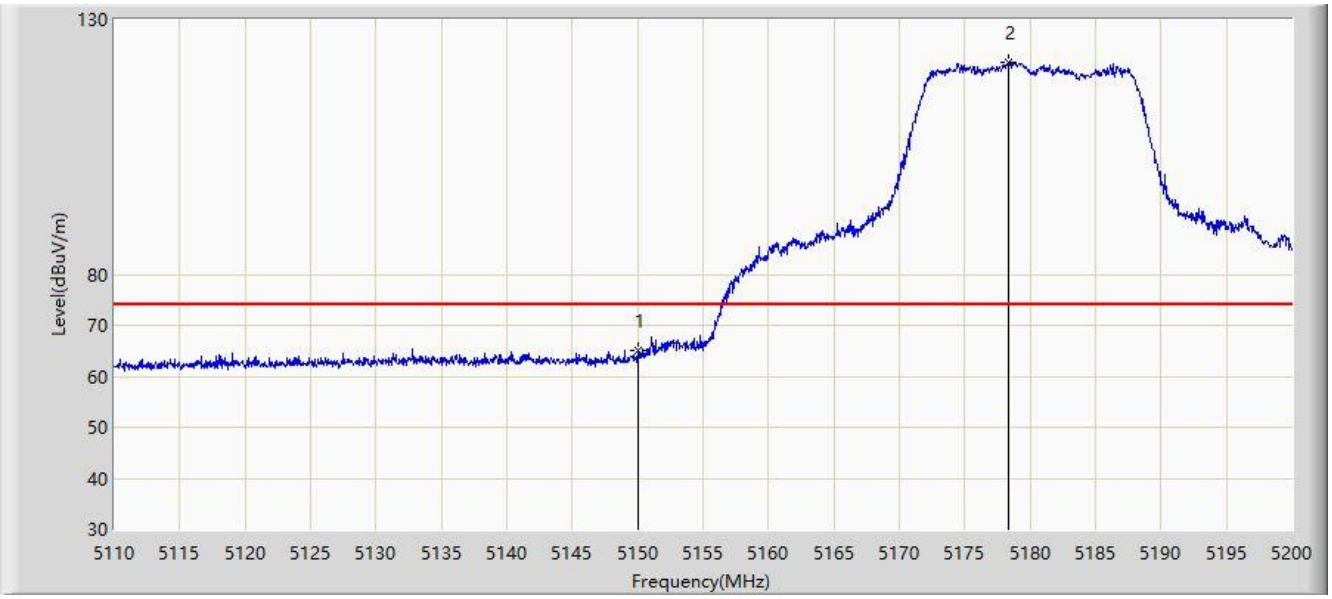


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5150.000	51.336	45.803	-2.664	54.000	5.534	AV
2		*	5181.955	95.735	89.976	N/A	N/A	5.759	AV

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

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

Site: WZ-AC1	Time: 2021/04/18 - 16:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

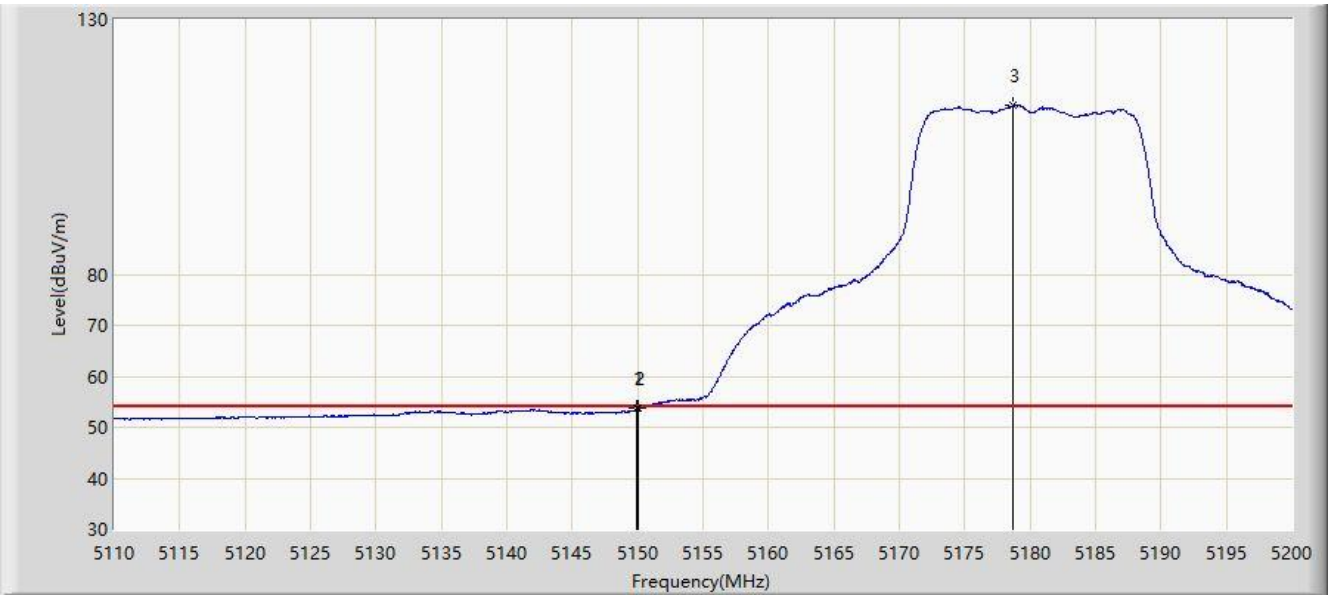


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5150.000	64.946	59.413	-9.054	74.000	5.534	PK
2		*	5178.400	121.577	115.869	N/A	N/A	5.708	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 16:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

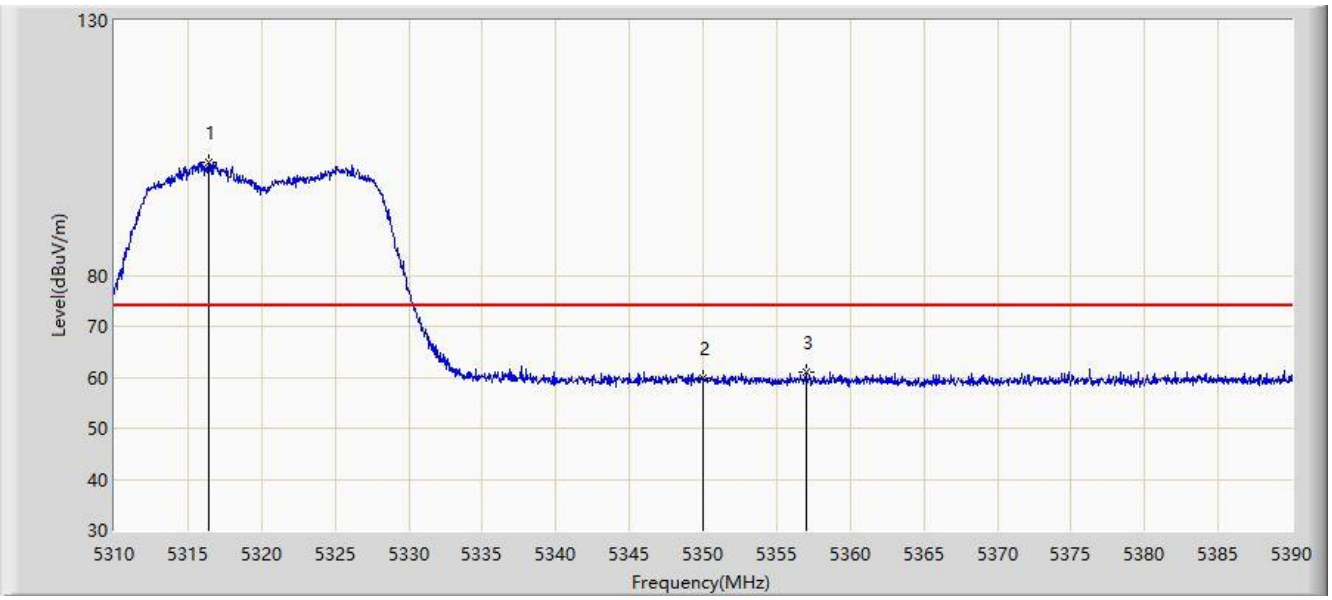


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5149.915	53.674	48.141	-0.326	54.000	5.533	AV
2			5150.000	53.654	48.121	-0.346	54.000	5.534	AV
3	X	*	5178.715	113.097	107.384	N/A	N/A	5.712	AV

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz	

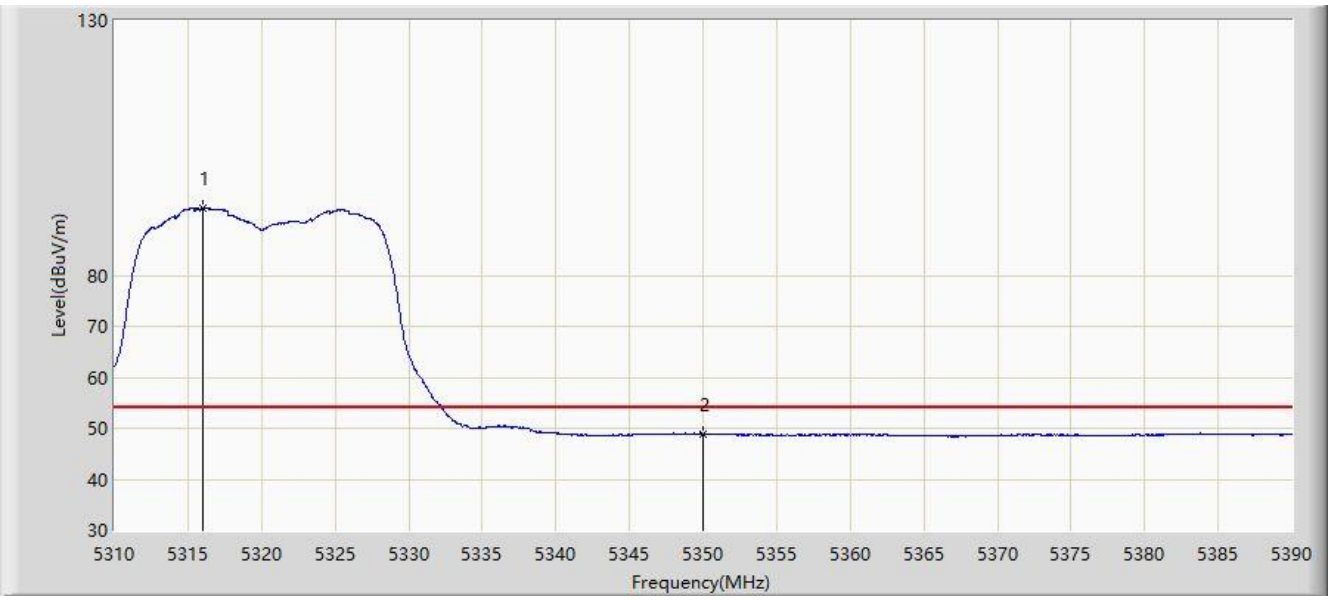


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	5316.440	102.208	96.992	N/A	N/A	5.216	PK
2			5350.000	59.760	53.986	-14.240	74.000	5.774	PK
3			5357.000	61.045	55.441	-12.955	74.000	5.604	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz	

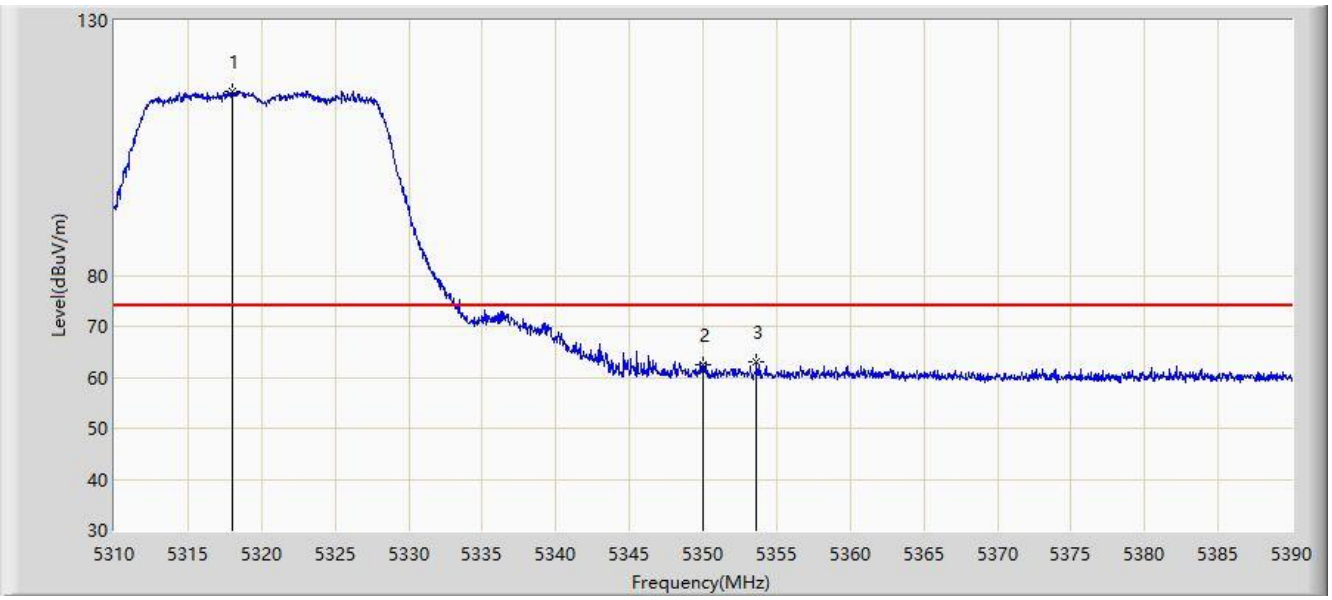


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	5316.040	93.205	87.996	N/A	N/A	5.209	AV
2			5350.000	48.926	43.152	-5.074	54.000	5.774	AV

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz	

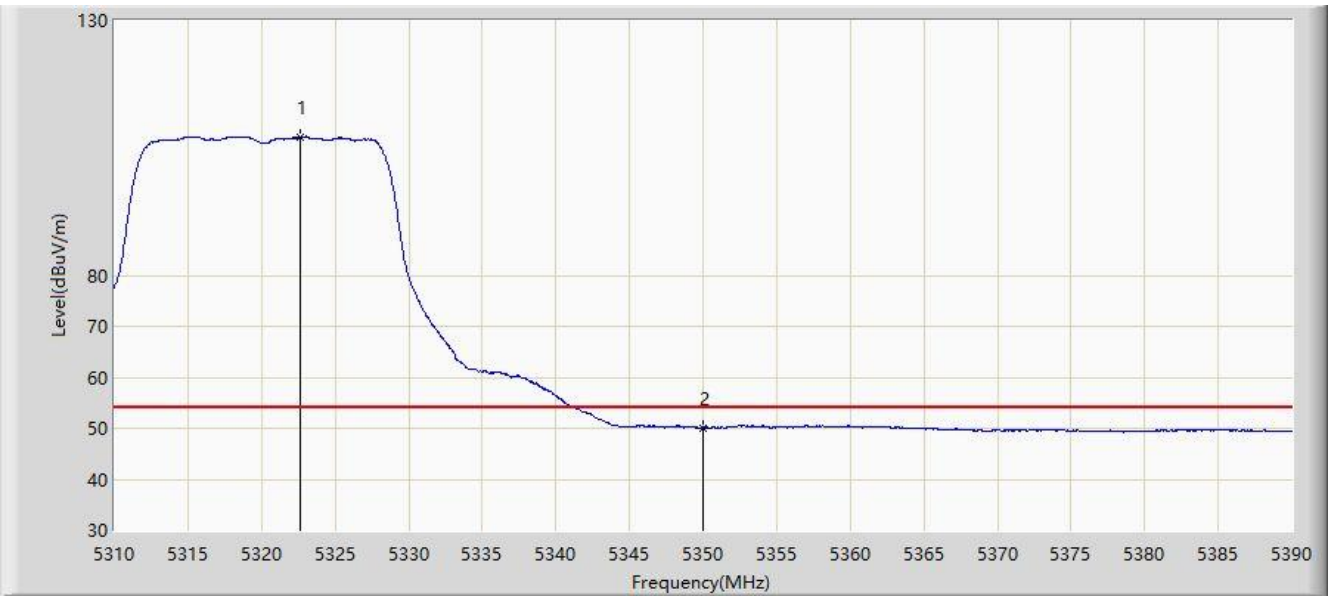


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	5318.040	115.985	110.739	N/A	N/A	5.246	PK
2			5350.000	62.493	56.719	-11.507	74.000	5.774	PK
3			5353.640	63.063	57.370	-10.937	74.000	5.693	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5320MHz	

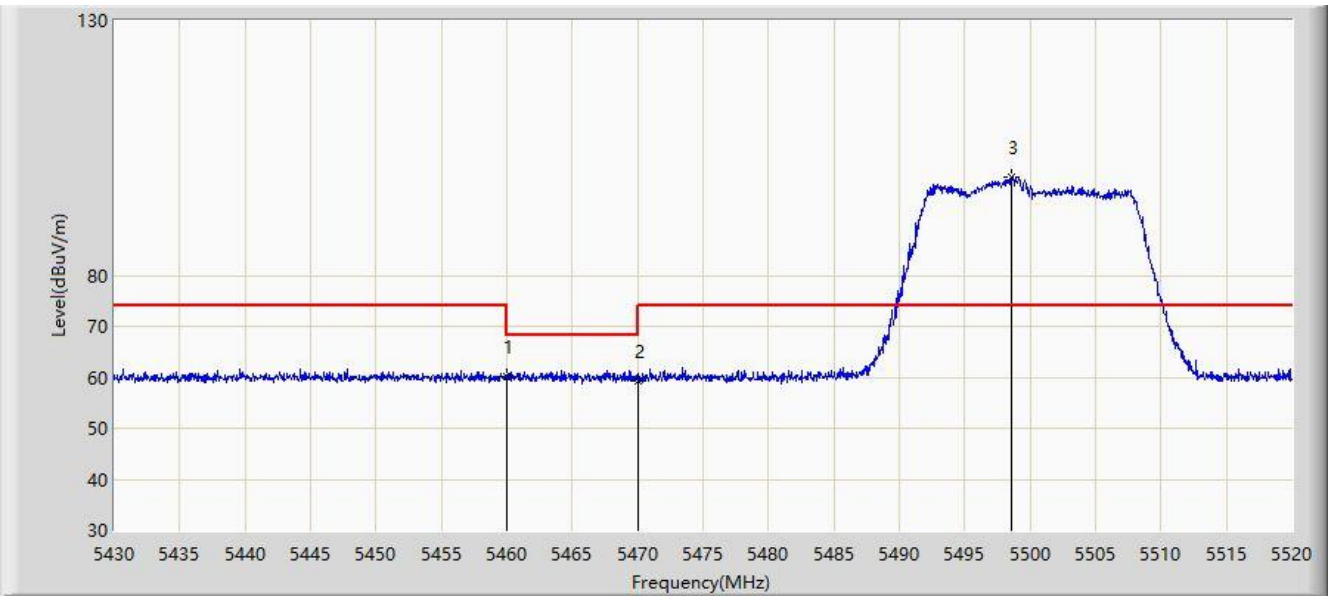


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	5322.640	107.192	101.835	N/A	N/A	5.357	AV
2			5350.000	50.086	44.312	-3.914	54.000	5.774	AV

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz	

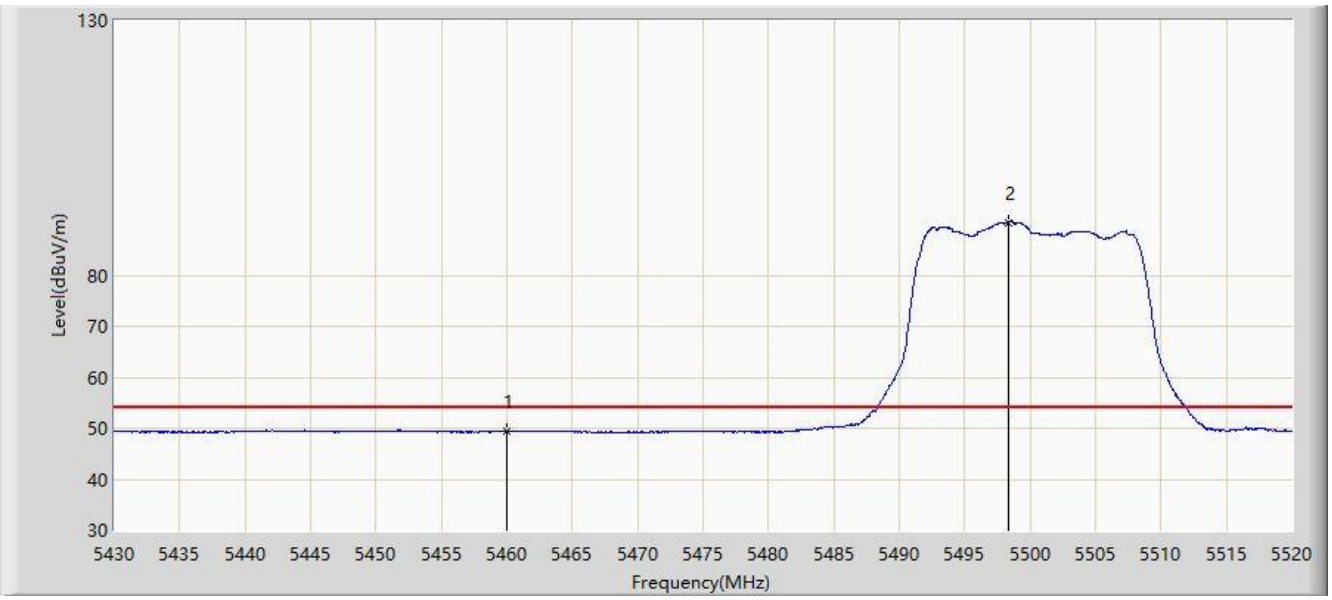


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5460.000	60.089	54.321	-13.911	74.000	5.768	PK
2			5470.000	59.385	53.690	-8.815	68.200	5.695	PK
3		*	5498.625	99.226	93.544	N/A	N/A	5.682	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz	

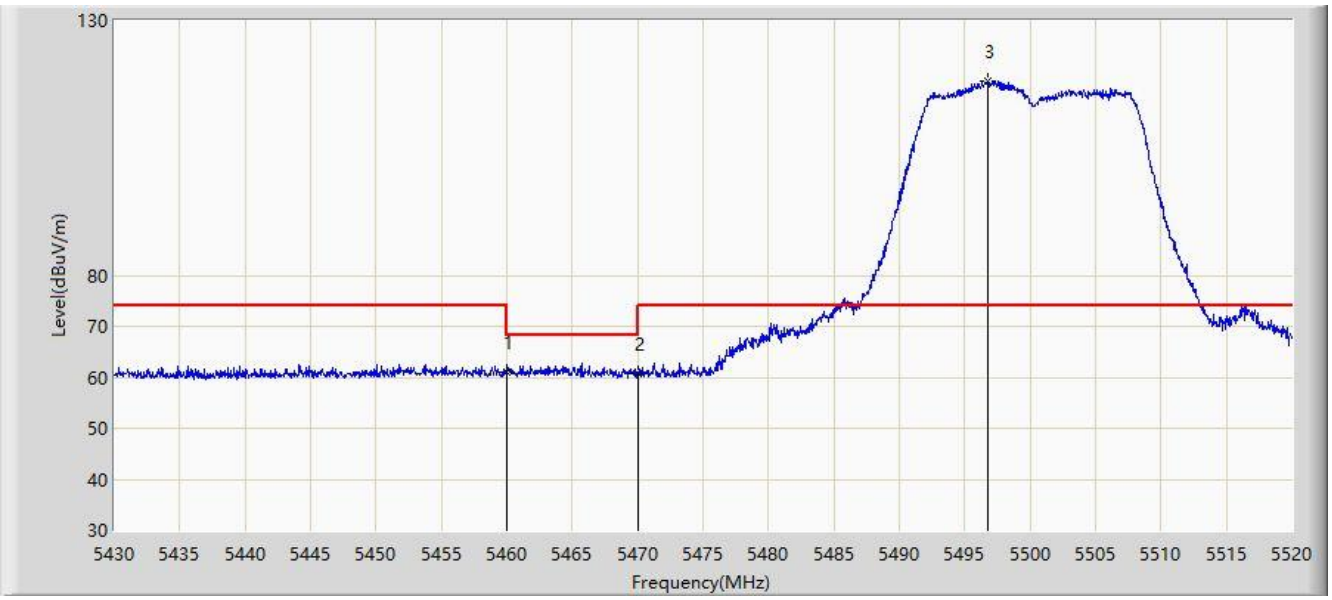


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5460.000	49.341	43.573	-4.659	54.000	5.768	AV
2		*	5498.310	90.419	84.739	N/A	N/A	5.680	AV

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz	

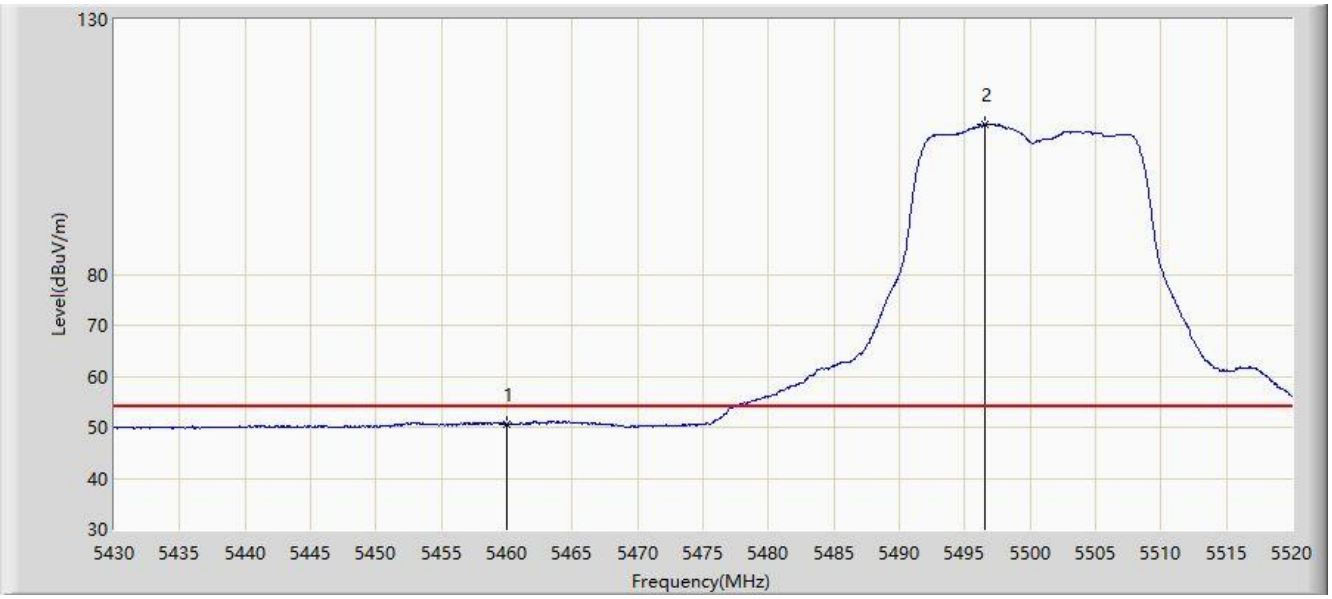


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5460.000	61.132	55.364	-12.868	74.000	5.768	PK
2			5470.000	60.716	55.021	-7.484	68.200	5.695	PK
3		*	5496.780	118.044	112.374	N/A	N/A	5.670	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5500MHz	

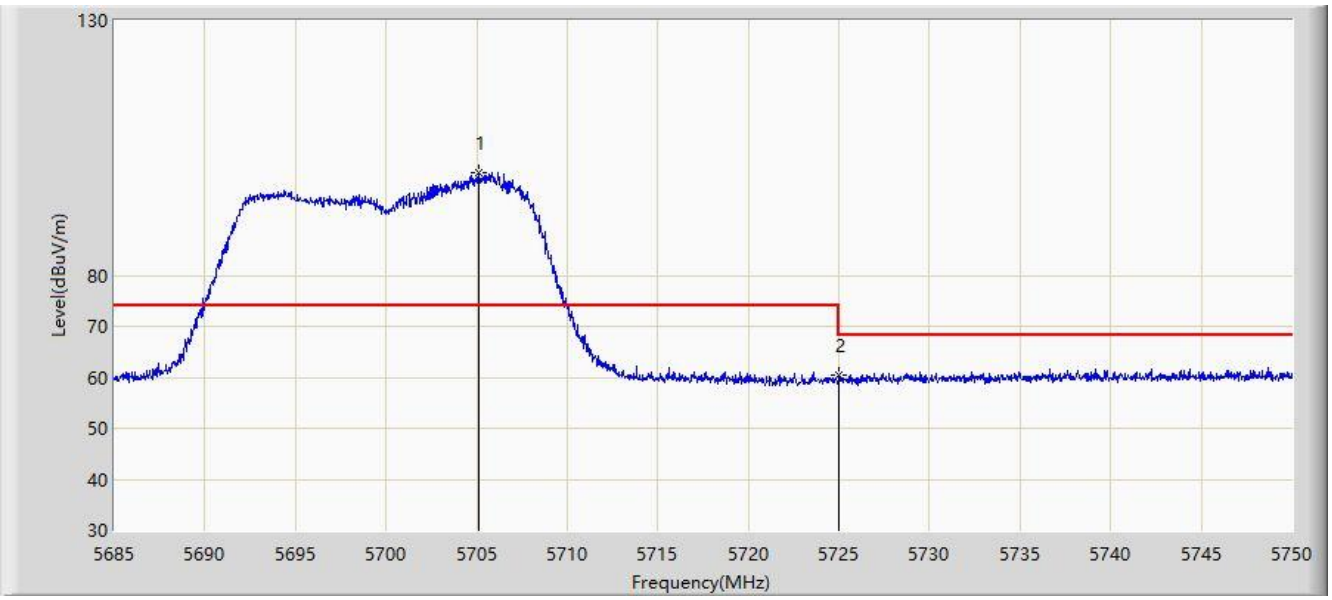


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5460.000	50.691	44.923	-3.309	54.000	5.768	AV
2	X	*	5496.510	109.417	103.748	N/A	N/A	5.670	AV

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5700MHz	

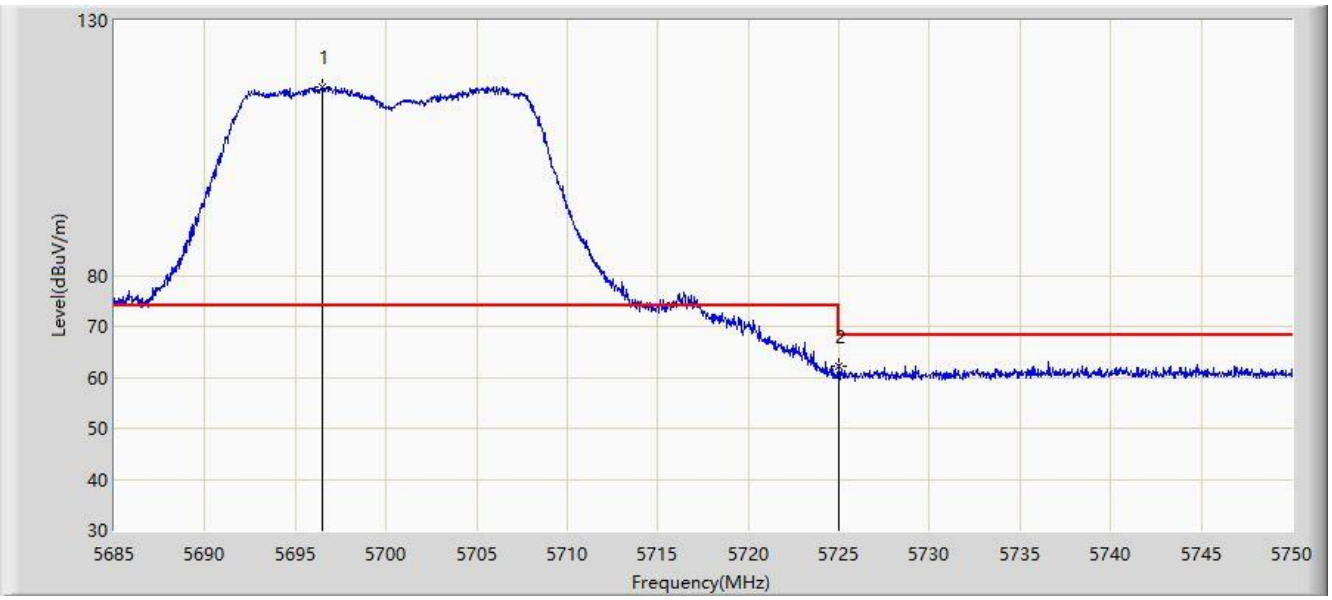


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	5705.085	100.049	94.193	N/A	N/A	5.856	PK
2			5725.000	60.341	54.750	-7.859	68.200	5.591	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5700MHz	

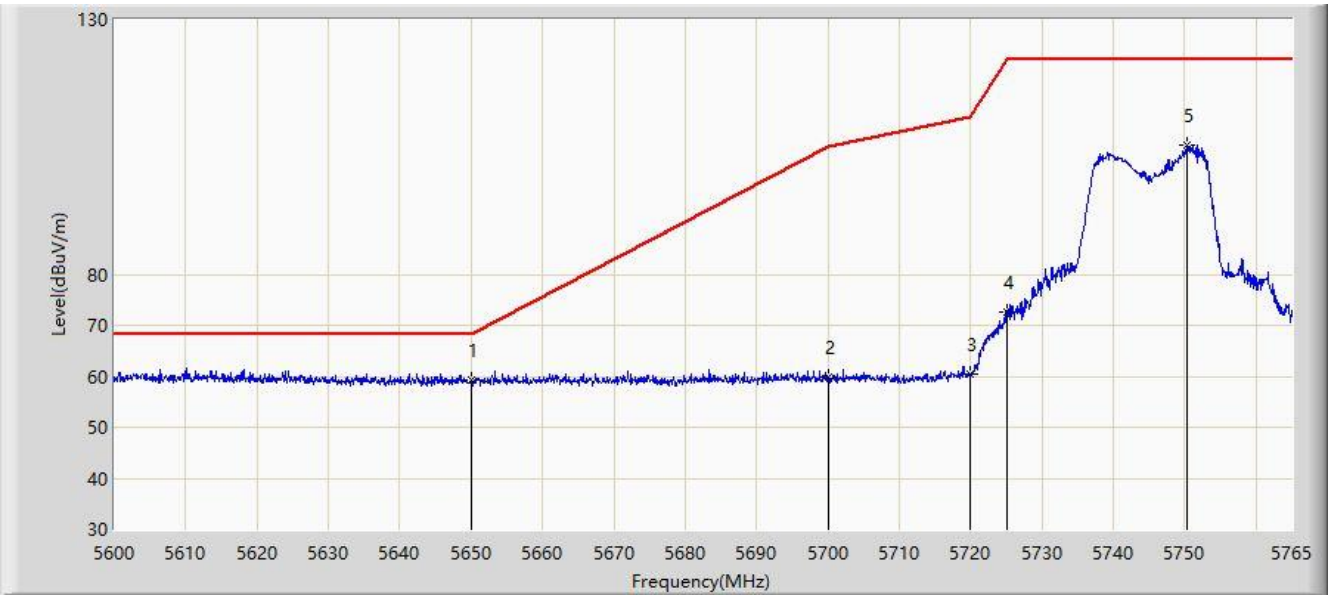


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	5696.473	116.957	111.190	N/A	N/A	5.766	PK
2			5725.000	62.183	56.592	-6.017	68.200	5.591	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:40
Limit: FCC_Part15.407_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

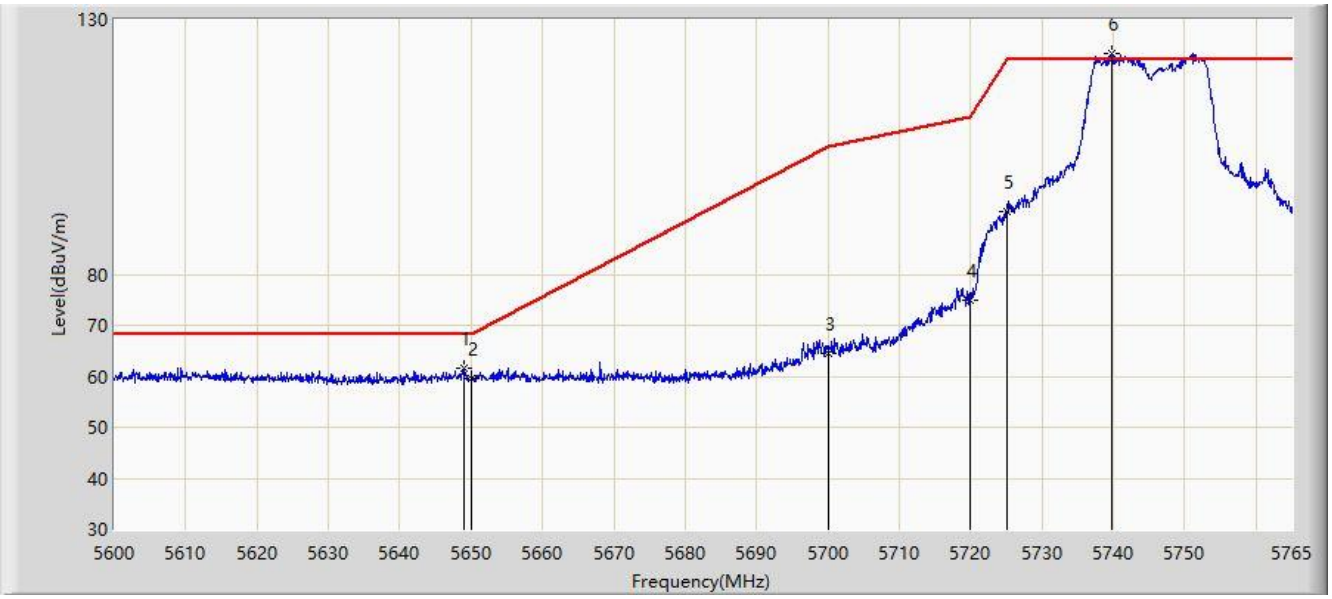


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	5650.000	59.193	53.657	-9.007	68.200	5.536	PK
2			5700.000	59.844	54.041	-45.356	105.200	5.803	PK
3			5720.000	60.406	54.778	-50.394	110.800	5.629	PK
4			5725.000	72.732	67.141	-49.468	122.200	5.591	PK
5			5750.232	105.426	99.420	N/A	N/A	6.006	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:38
Limit: FCC_Part15.407_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

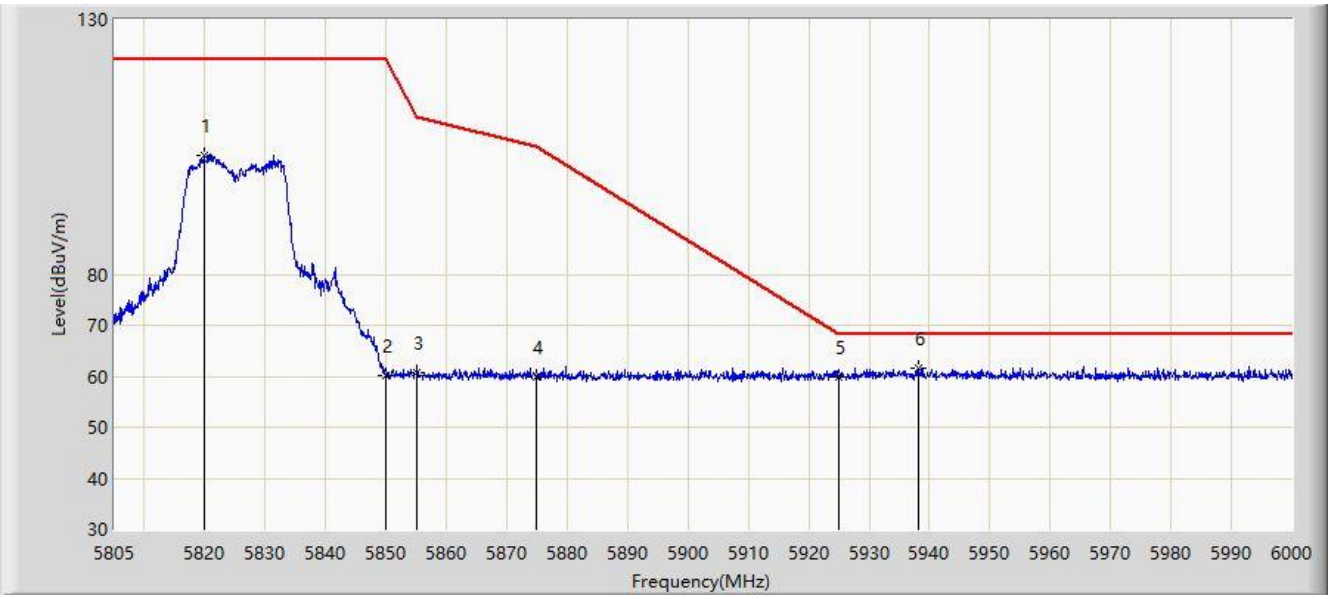


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5648.922	61.619	56.092	-6.581	68.200	5.527	PK
2			5650.000	59.568	54.032	-8.632	68.200	5.536	PK
3			5700.000	64.538	58.735	-40.662	105.200	5.803	PK
4			5720.000	74.941	69.313	-35.859	110.800	5.629	PK
5			5725.000	92.305	86.714	-29.895	122.200	5.591	PK
6		*	5739.837	123.222	117.379	N/A	N/A	5.843	PK

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

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

Site: WZ-AC1	Time: 2021/04/18 - 17:43
Limit: FCC_Part15.407_RE(3m)	Engineer: Buter Shi
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Dual Band 4x4 802.11ac Wave 2 Mini PCIe WiFi Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			5819.917	103.476	97.520	N/A	N/A	5.956	PK
2			5850.000	60.200	54.238	-62.000	122.200	5.961	PK
3			5855.000	60.650	54.644	-50.150	110.800	6.007	PK
4			5875.000	59.784	53.719	-45.416	105.200	6.065	PK
5			5925.000	59.869	53.697	-8.331	68.200	6.173	PK
6		*	5938.283	61.701	55.382	-6.499	68.200	6.320	PK

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

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