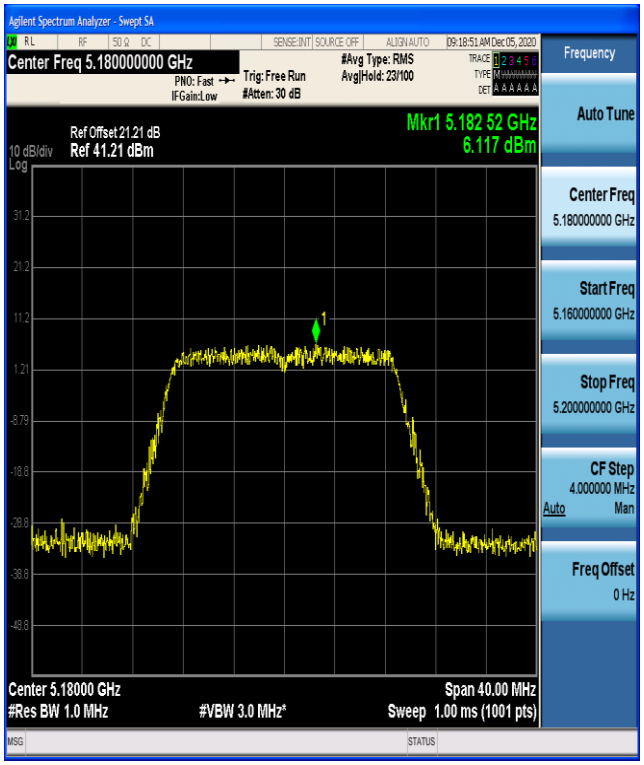
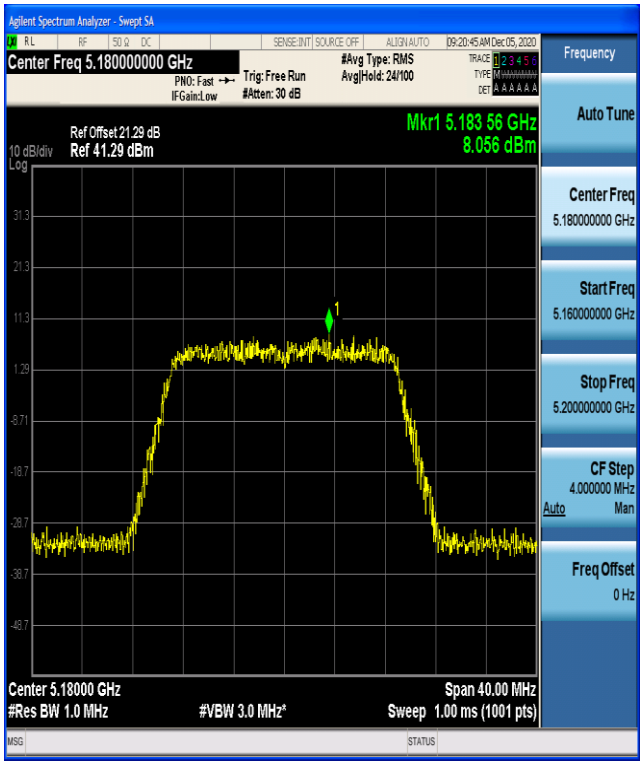
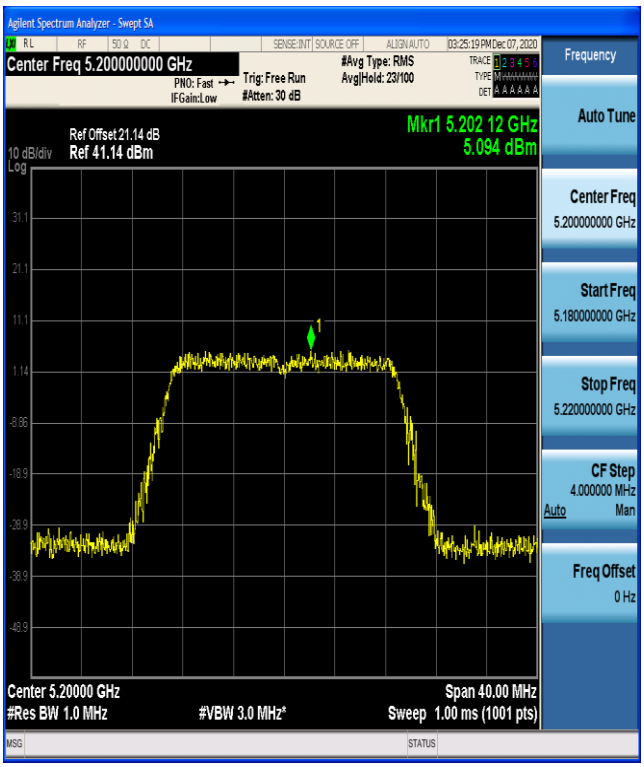
802.11n(HT20)

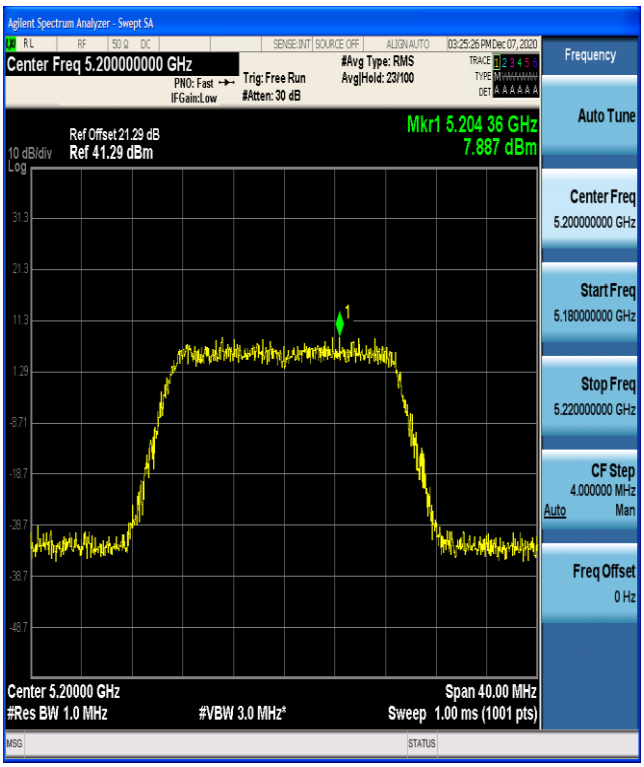
ANT0

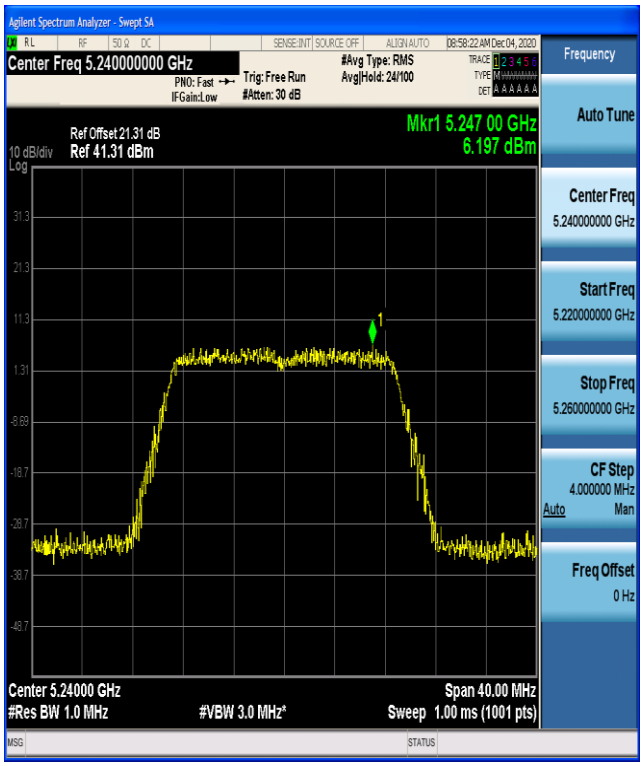


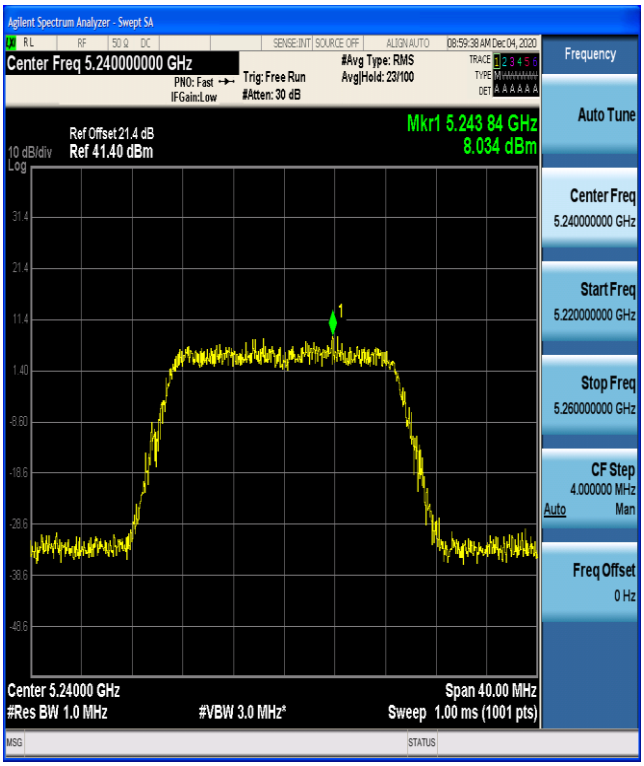
ANT1











802.11n(HT40)

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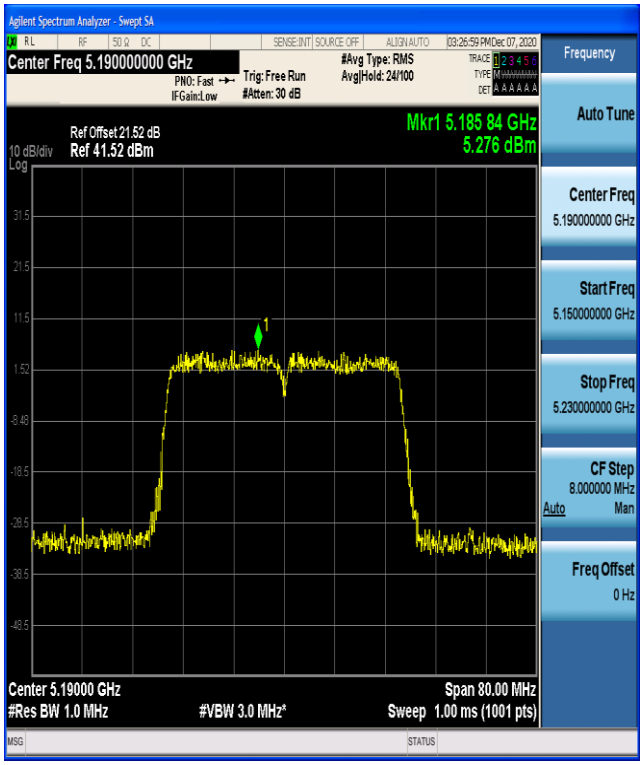

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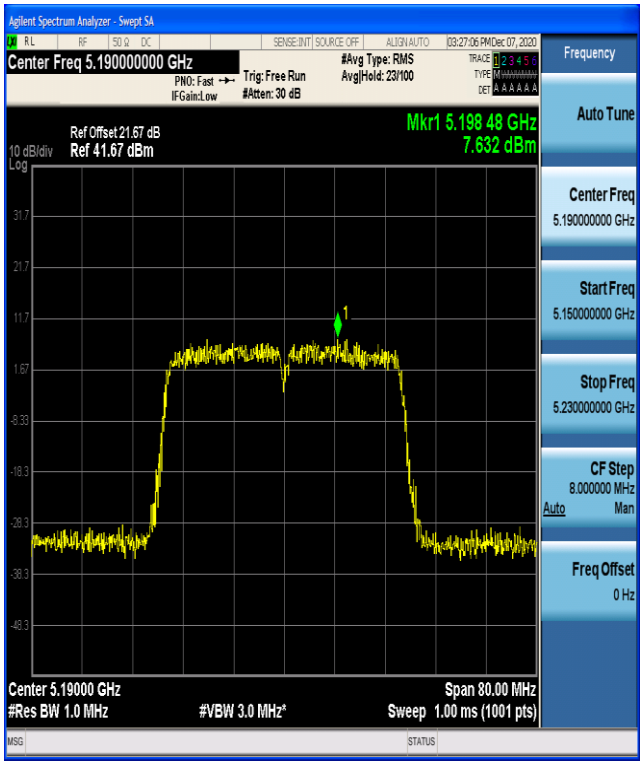
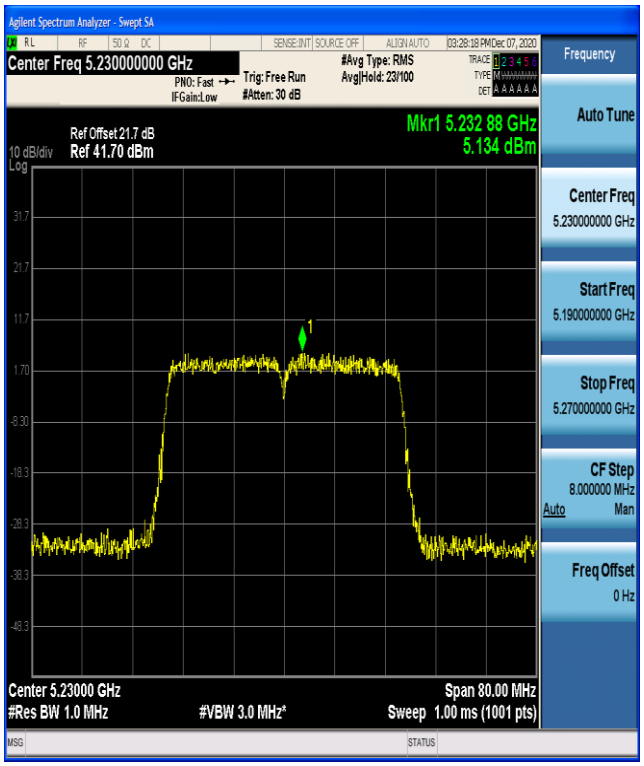
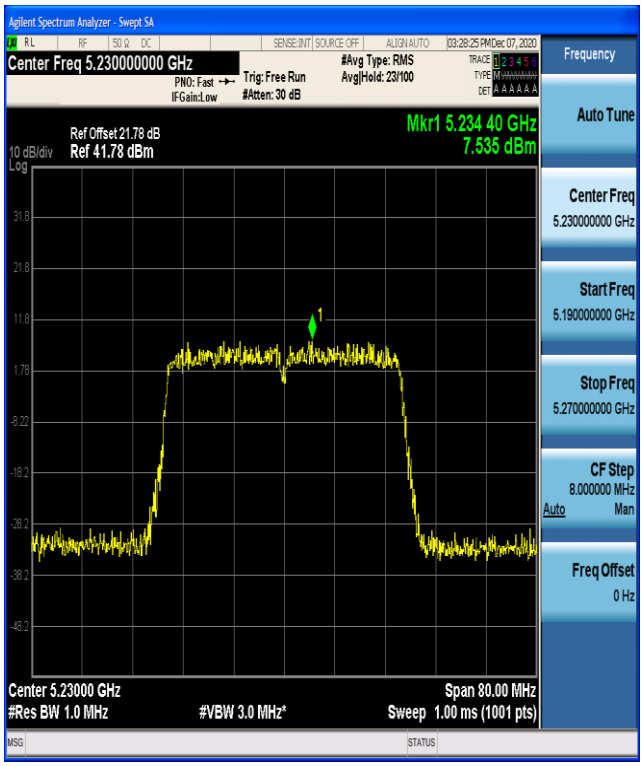
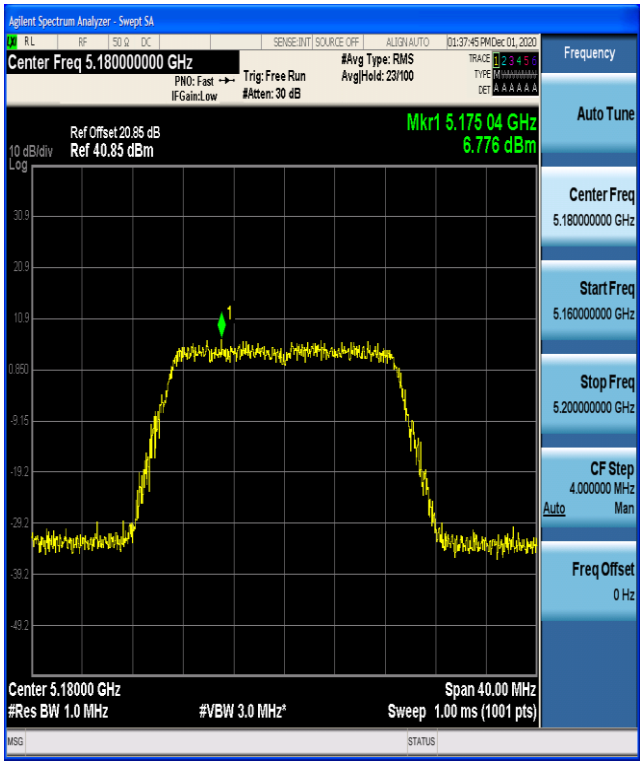




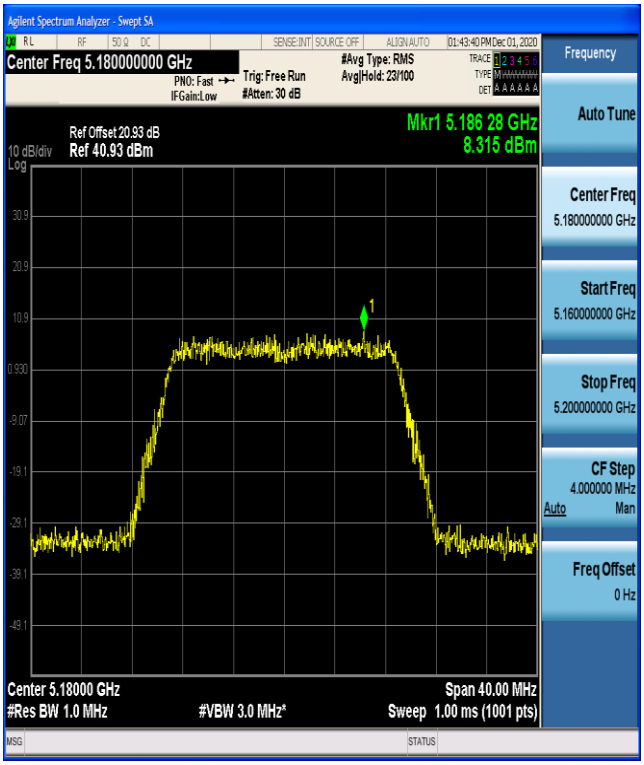


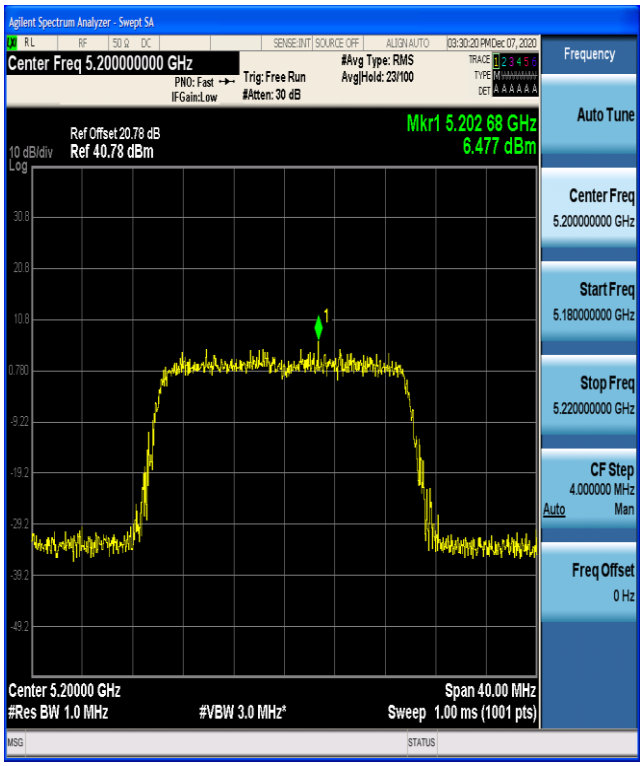
802.11ax(HT20)

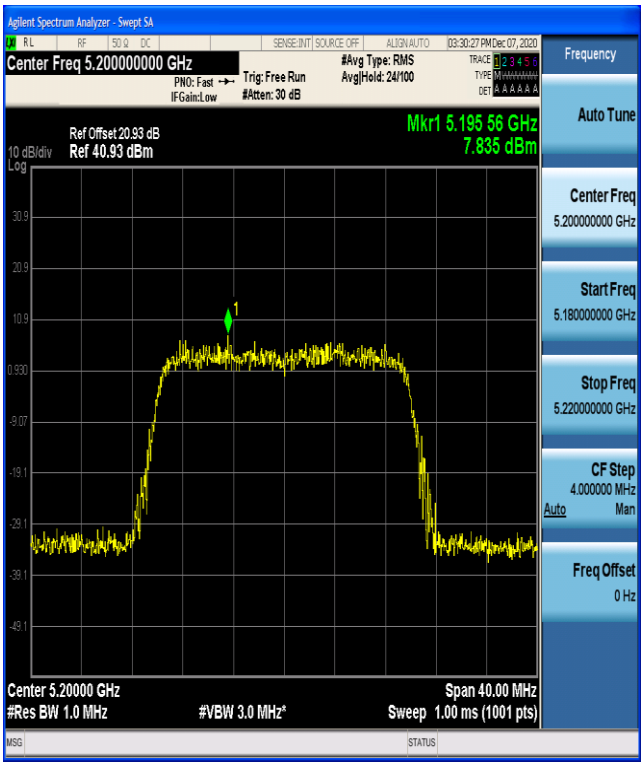
ANT0

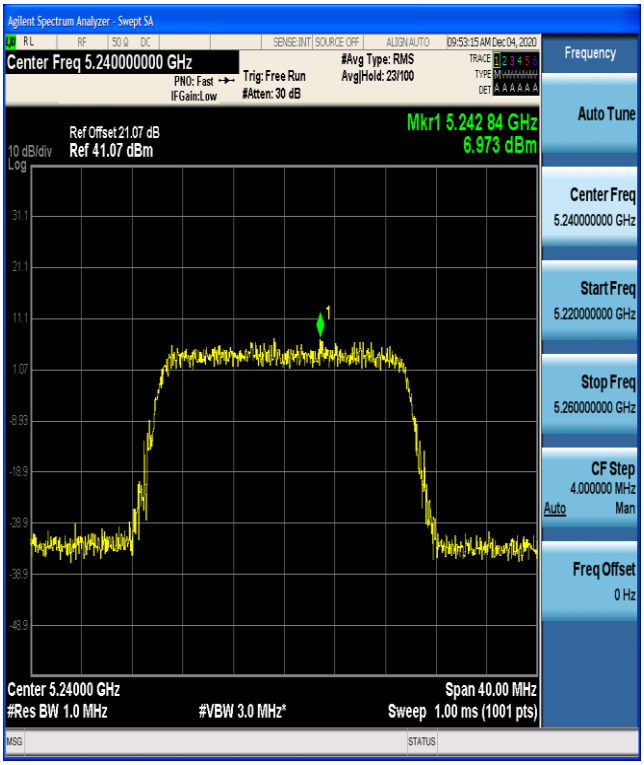


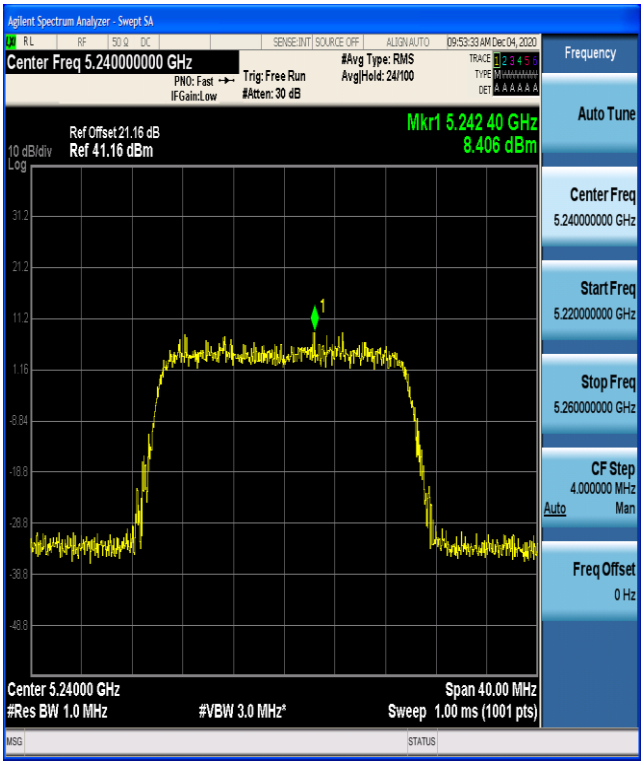
ANT1




Agilent Spectrum Analyzer - Swept SA
Center Freq 5.200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 23/100
03:30:20 PM Dec 07, 2020
Ref Offset 20.78 dB
10 dB/div
Ref 40.78 dBm
Log
Mkr1 5.202 68 GHz
6.477 dBm
Center 5.20000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 40.00 MHz
Sweep 1.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.200000000 GHz
Start Freq
5.180000000 GHz
Stop Freq
5.220000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

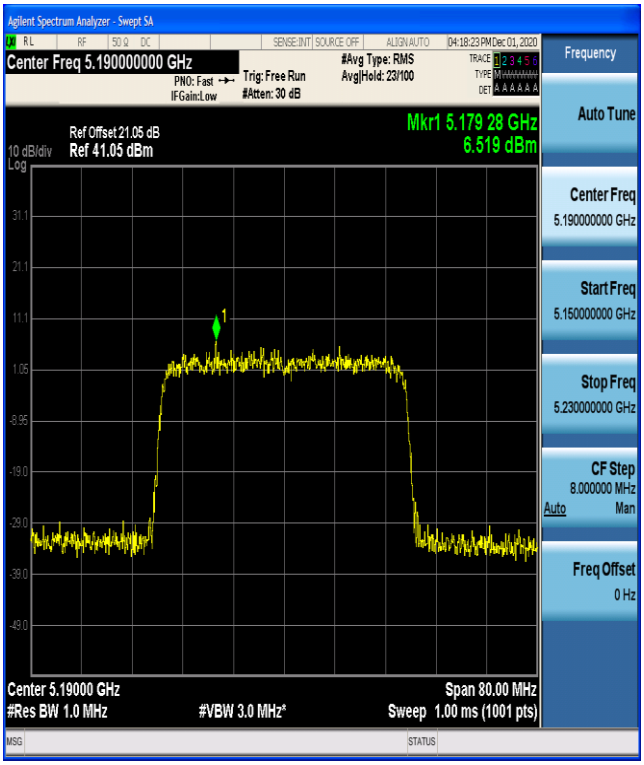

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 24/100
03:30:27 PM Dec 07, 2020
Ref Offset 20.93 dB
10 dB/div
Ref 40.93 dBm
Log
Mkr1 5.195 56 GHz
7.835 dBm
Center 5.20000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 40.00 MHz
Sweep 1.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.200000000 GHz
Start Freq
5.180000000 GHz
Stop Freq
5.220000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 23/100
09:53:15 AM Dec 04, 2020
Ref Offset 21.07 dB
10 dB/div
Ref 41.07 dBm
Log
Mkr1 5.242 84 GHz
6.973 dBm
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 40.00 MHz
Sweep 1.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.240000000 GHz
Start Freq
5.220000000 GHz
Stop Freq
5.260000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

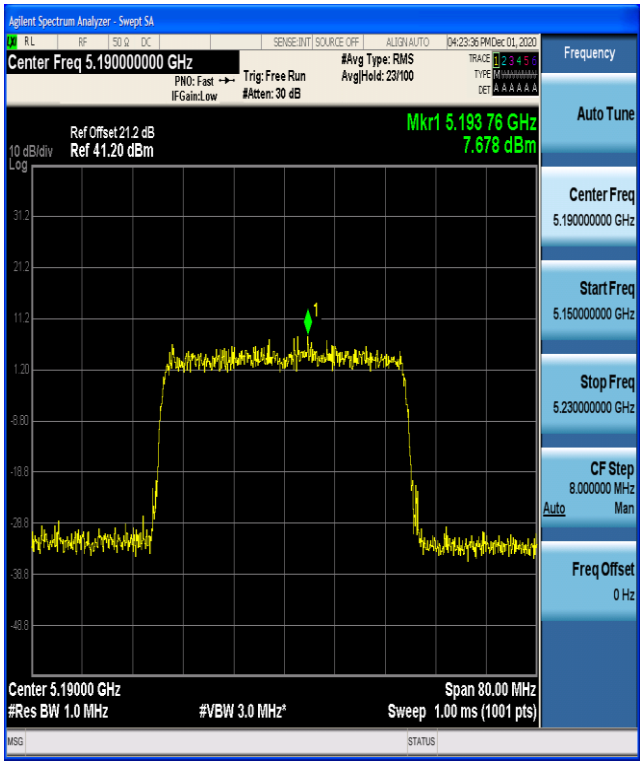

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 24/100
09:53:33 AM Dec 04, 2020
Ref Offset 21.16 dB
10 dB/div
Ref 41.16 dBm
Log
Mkr1 5.242 40 GHz
8.406 dBm
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 40.00 MHz
Sweep 1.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.240000000 GHz
Start Freq
5.220000000 GHz
Stop Freq
5.260000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

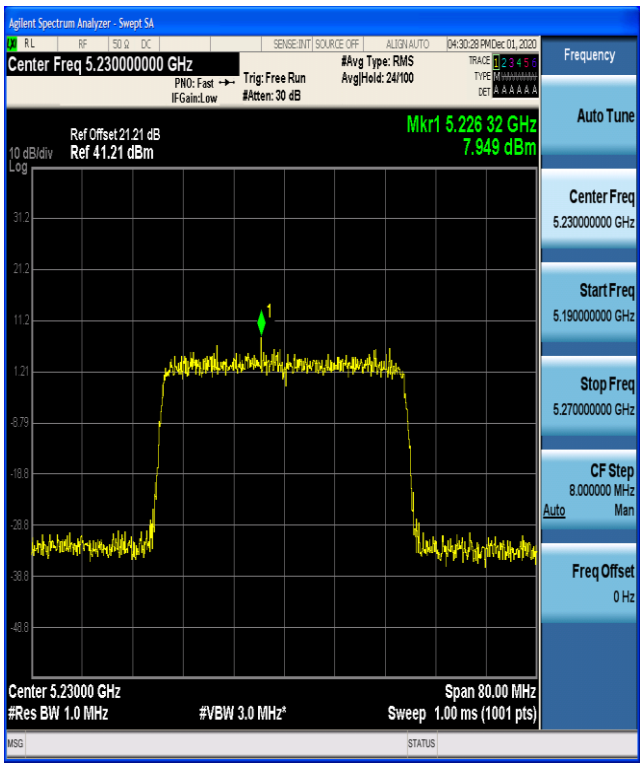
802.11ax(HT40)

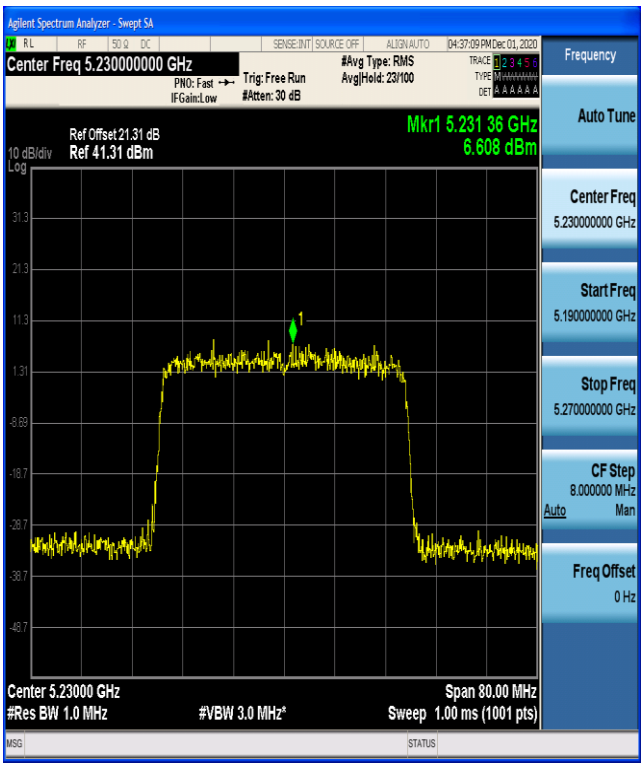
ANT0



ANT1

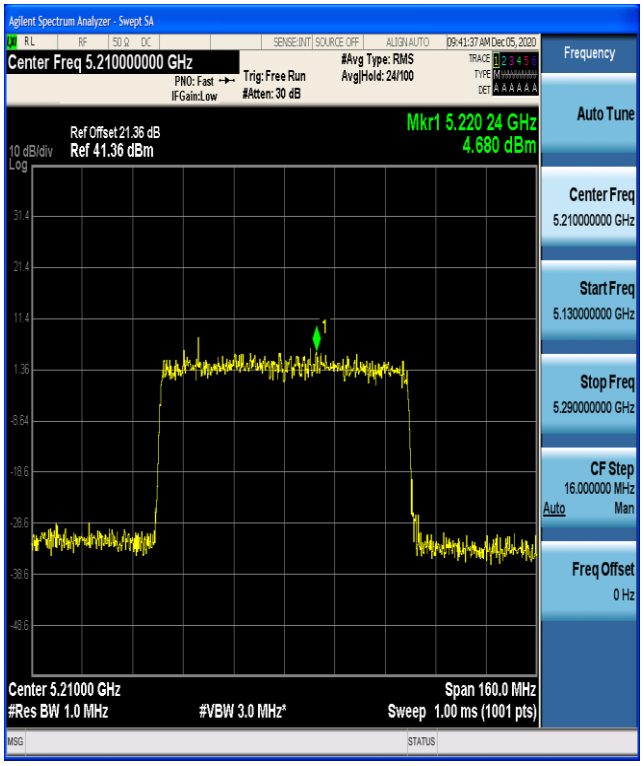




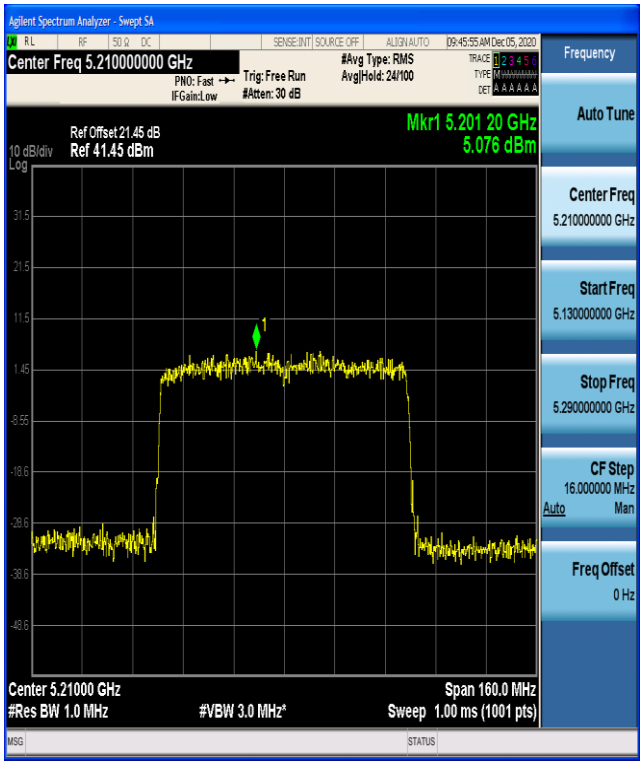


802.11ax(HT80)

ANT0

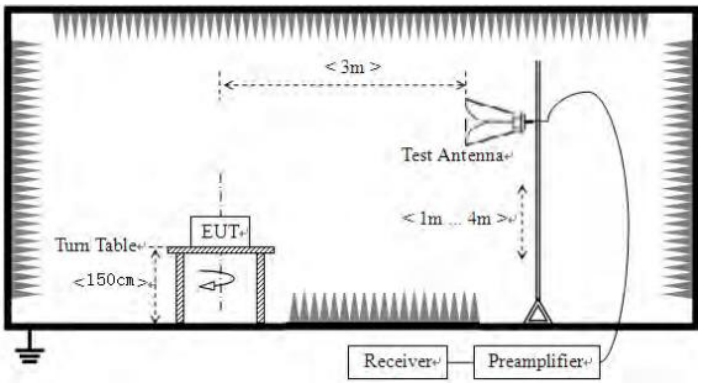


ANT1



7.6 Band Edge

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407 and 5.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>68.2</td><td>Peak Value</td></tr>
</table>
Undesirable emission limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
(3) 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 EIRP of −27 dBm/MHz.
</td></tr>
<tr><td>Test Procedure:</td><td>
a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-
</td></tr>
</table>

	peak or average method as specified and then reported in a data sheet.
Test setup:	For radiated emissions above 1GHz 
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remarks:

1. *Only the worst case Main Antenna test data.*
2. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
5. *According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:*
   E[dBuV/m] = EIRP[dBm] + 95.2;
   For example, if EIRP = -27dBm
   E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

Measurement Data:

All the antennas were tested, and only show the worst case (ANT1) in this report.

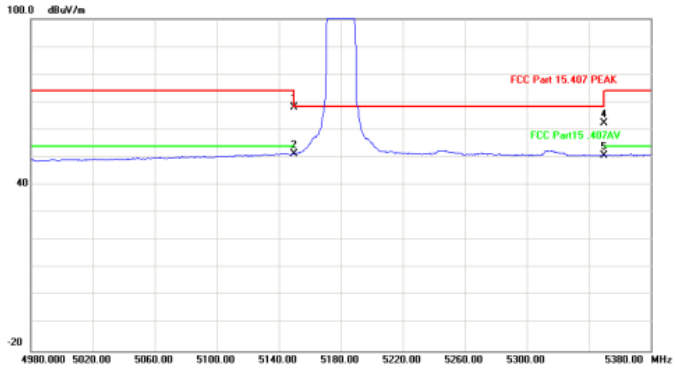
802.11a	5180

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5180
Note: 74

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	68.07	-0.06	68.01	68.20	-0.19	peak	
2		5150.000	51.35	-0.06	51.29	54.00	-2.71	AVG	
3	*	5182.000	109.56	0.04	109.60	68.20	41.40	AVG	
4		5350.000	61.90	0.55	62.45	68.20	-5.75	peak	
5		5350.000	50.12	0.55	50.67	54.00	-3.33	AVG	

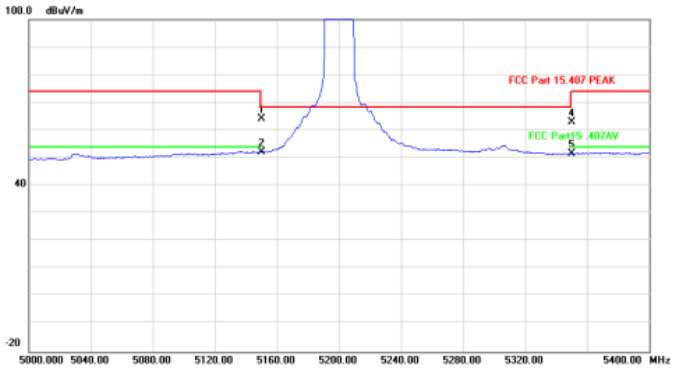
802.11a	5200

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5200
Note: -1

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	64.34	-0.06	64.28	68.20	-3.92	peak	
2		5150.000	52.22	-0.06	52.16	54.00	-1.84	AVG	
3	*	5196.400	113.21	0.09	113.30	68.20	45.10	AVG	
4		5350.000	62.43	0.55	62.98	68.20	-5.22	peak	
5		5350.000	51.10	0.55	51.65	54.00	-2.35	AVG	

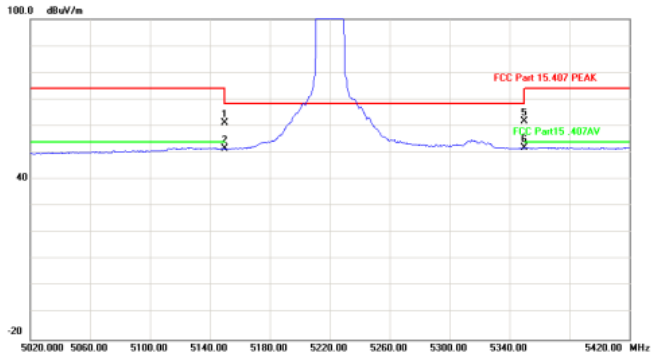
802.11a	5220

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5220
Note: -1

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	61.30	-0.06	61.24	68.20	-6.96	peak	
2		5150.000	51.48	-0.06	51.42	54.00	-2.58	AVG	
3	X	5216.800	113.53	0.15	113.68	68.20	45.48	AVG	
4	*	5219.200	120.29	0.15	120.44	68.20	52.24	peak	
5		5350.000	61.32	0.55	61.87	68.20	-6.33	peak	
6		5350.000	51.26	0.55	51.81	54.00	-2.19	AVG	

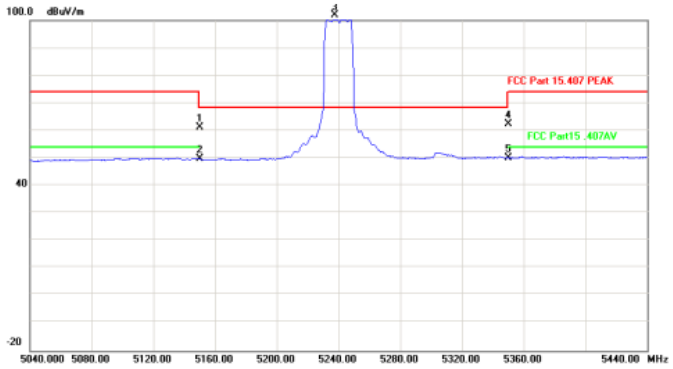
802.11a	5240

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5240
Note: -1

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



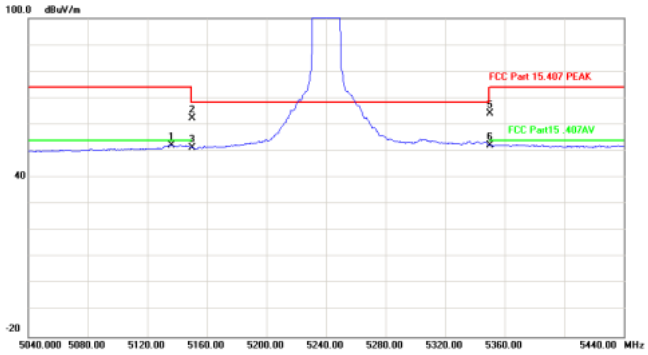
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	61.31	-0.06	61.25	68.20	-6.95	peak	
2		5150.000	49.81	-0.06	49.75	54.00	-4.25	AVG	
3	*	5237.600	101.65	0.21	101.86	68.20	33.66	AVG	
4		5350.000	61.83	0.55	62.38	68.20	-5.82	peak	
5		5350.000	49.41	0.55	49.96	54.00	-4.04	AVG	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5240
Note: -1

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5136.400	52.32	-0.10	52.22	54.00	-1.78	AVG	
2		5150.000	62.56	-0.06	62.50	68.20	-5.70	peak	
3		5150.000	51.34	-0.06	51.28	54.00	-2.72	AVG	
4	*	5242.400	114.16	0.22	114.38	68.20	46.18	AVG	
5		5350.000	63.48	0.55	64.03	68.20	-4.17	peak	
6		5350.000	51.56	0.55	52.11	54.00	-1.89	AVG	

All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.

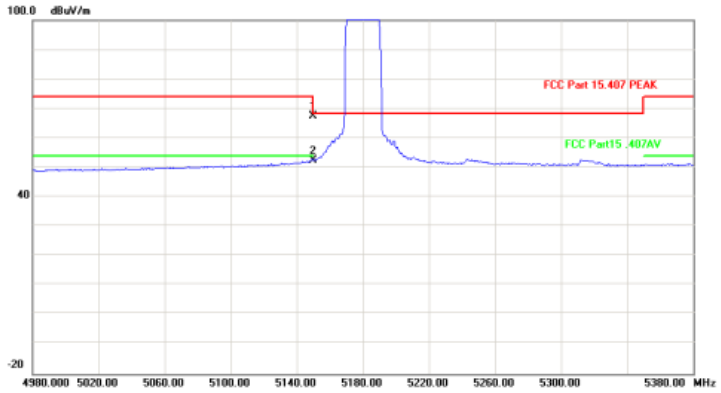
802.11axHT20	5180

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5180
Note: 66

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	67.65	-0.06	67.59	68.20	-0.61	peak	
2		5150.000	52.56	-0.06	52.50	54.00	-1.50	AVG	
3	*	5183.600	109.03	0.05	109.08	68.20	40.88	AVG	

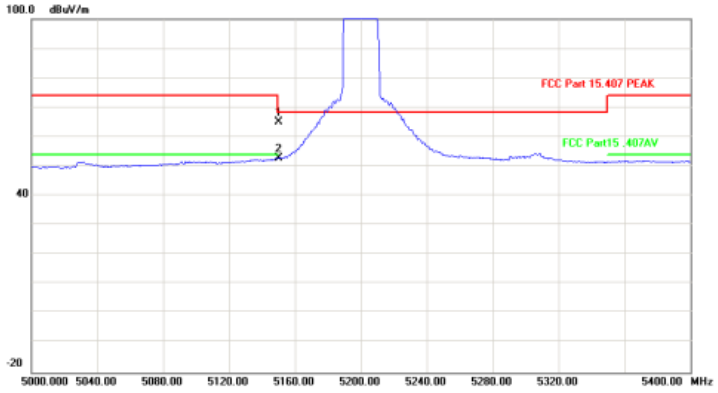
802.11axHT20	5200

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5200
Note: -1

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	65.17	-0.06	65.11	68.20	-3.09	peak	
2		5150.000	52.89	-0.06	52.83	54.00	-1.17	AVG	
3	*	5196.000	112.34	0.08	112.42	68.20	44.22	AVG	

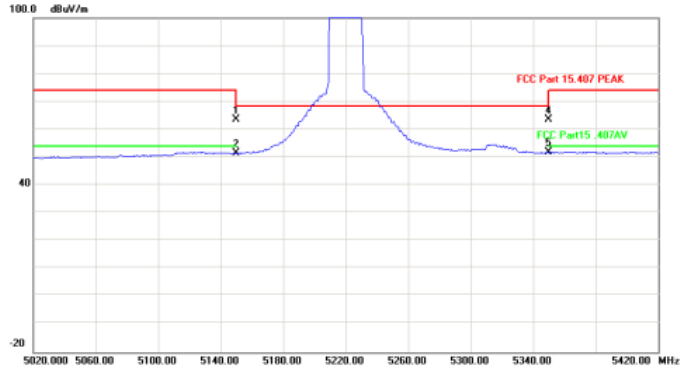
802.11axHT20	5220

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5220
Note: -1

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	63.56	-0.06	63.50	68.20	-4.70	peak	
2		5150.000	51.56	-0.06	51.50	54.00	-2.50	AVG	
3	*	5223.600	112.83	0.17	113.00	68.20	44.80	AVG	
4		5350.000	63.04	0.55	63.59	68.20	-4.61	peak	
5		5350.000	51.19	0.55	51.74	54.00	-2.26	AVG	

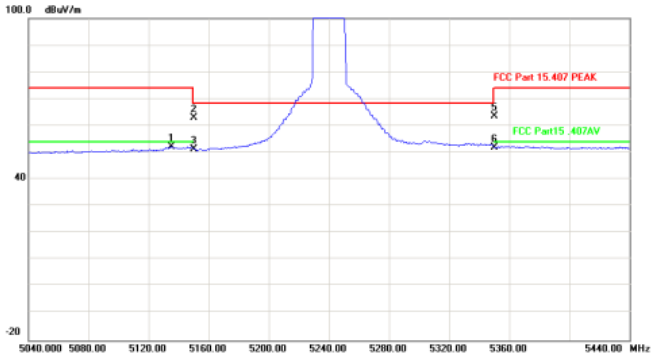
802.11axHT20	5240

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5240
Note: -1

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



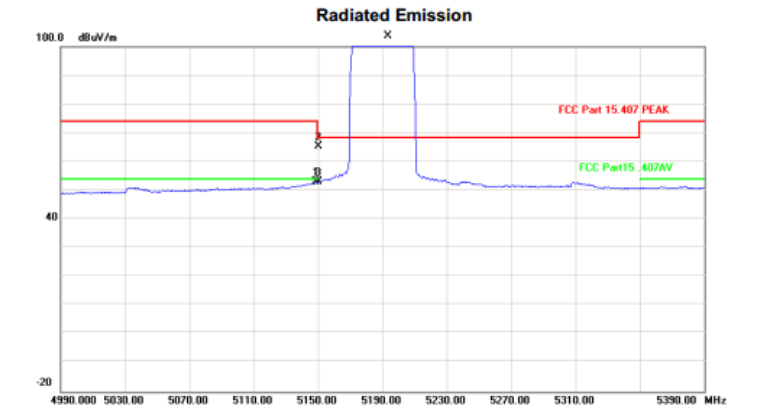
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5135.200	52.35	-0.10	52.25	54.00	-1.75	AVG	
2		5150.000	62.89	-0.06	62.83	68.20	-5.37	peak	
3		5150.000	51.40	-0.06	51.34	54.00	-2.66	AVG	
4	*	5238.400	113.25	0.21	113.46	68.20	45.26	AVG	
5		5350.000	62.89	0.55	63.44	68.20	-4.76	peak	
6		5350.000	51.36	0.55	51.91	54.00	-2.09	AVG	

802.11ax HT40	5190

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT40 5190
Note: 66

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %



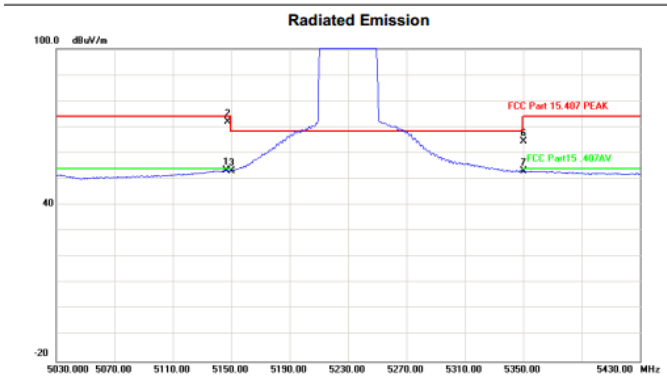
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.800	53.16	-0.06	53.10	54.00	-0.90	AVG	
2		5150.000	65.36	-0.06	65.30	68.20	-2.90	peak	
3		5150.000	52.97	-0.06	52.91	54.00	-1.09	AVG	
4	*	5193.200	104.03	0.08	104.11	68.20	35.91	AVG	

802.11ax HT40	5230

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT40 5230
Note: 86

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.400	53.49	-0.07	53.42	54.00	-0.58	AVG	
2		5147.600	71.94	-0.06	71.88	74.00	-2.12	peak	
3		5150.000	53.17	-0.06	53.11	54.00	-0.89	AVG	
4	X	5236.000	109.17	0.21	109.38	68.20	41.18	AVG	
5	*	5244.790	121.25	0.23	121.48	68.20	53.28	peak	
6		5350.000	63.82	0.55	64.37	68.20	-3.83	peak	
7		5350.000	52.38	0.55	52.93	54.00	-1.07	AVG	

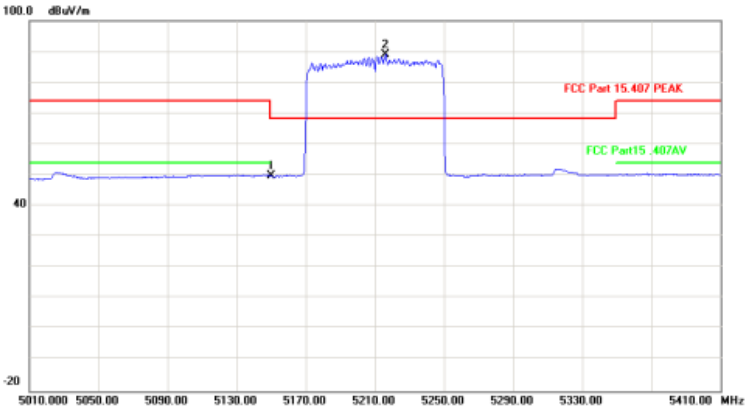
802.11ax HT80	5210

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT80 5210
Note: 62

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



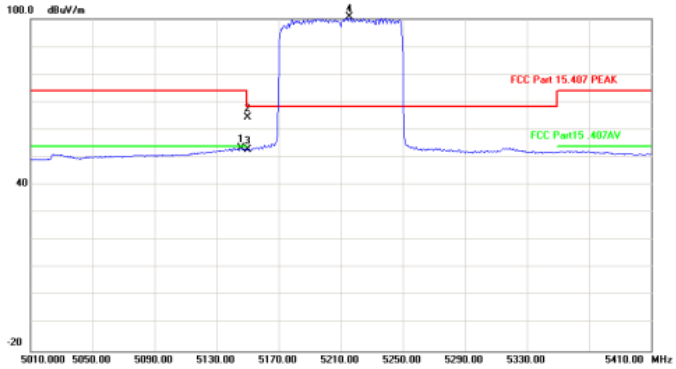
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	49.73	-0.06	49.67	54.00	-4.33	AVG	
2	*	5216.000	88.79	0.14	88.93	68.20	20.73	AVG	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT80 5210
Note: 62

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5145.600	53.39	-0.07	53.32	54.00	-0.68	AVG	
2		5150.000	64.49	-0.06	64.43	68.20	-3.77	peak	
3		5150.000	52.92	-0.06	52.86	54.00	-1.14	AVG	
4	X	5215.600	100.49	0.14	100.63	68.20	32.43	AVG	
5	*	5235.970	112.95	0.20	113.15	68.20	44.95	peak	

7.7 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 40GHz
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver setup:

Frequency	Detector	RBW	VBW	Value
9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	AV	1MHz	3MHz	Average Value

Limit:

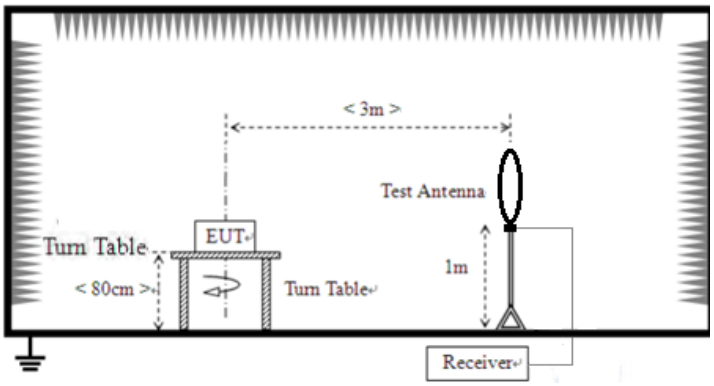
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	300m
1.705MHz-30MHz	30	QP	30m
30MHz-88MHz	100	QP	3m
88MHz-216MHz	150	QP	
216MHz-960MHz	200	QP	
960MHz-1GHz	500	QP	
Above 1GHz	500	Average	
	5000	Peak	

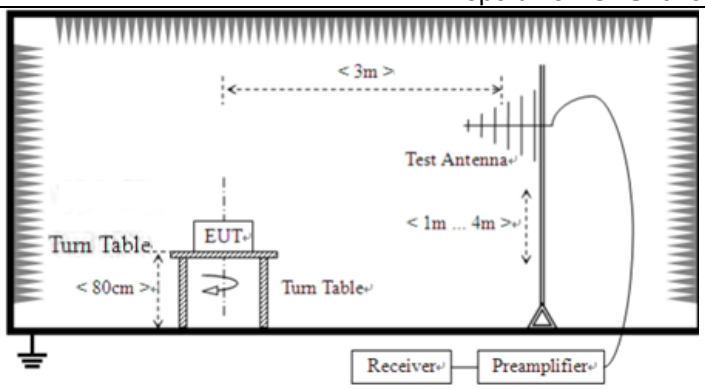
Test Procedure:

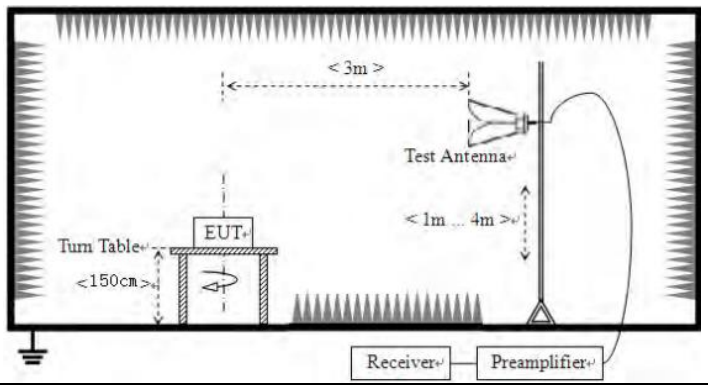
Substitution method was performed to determine the actual ERP emission levels of the EUT.
The following test procedure as below:
1>.Below 1GHz test procedure:

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

2>.Above 1GHz test procedure:

	1. On the test site as test setup graph above,the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi) where: Pg is the generator output power into the substitution antenna.
Test setup:	For radiated emissions from 9kHz to 30MHz  For radiated emissions from 30MHz to1GHz

<table>
<tr><td></td><td colspan="6"> 

For radiated emissions above 1GHz

</td></tr>
<tr><td>Test Instruments:</td><td colspan="6">Refer to section 5.10 for details</td></tr>
<tr><td>Test mode:</td><td colspan="6">Refer to section 5.2 for details</td></tr>
<tr><td>Test environment:</td><td>Temp.:</td><td>25 °C</td><td>Humid.:</td><td>52%</td><td>Press.:</td><td>1012mbar</td></tr>
<tr><td>Test voltage:</td><td colspan="6">AC 120V, 60Hz</td></tr>
<tr><td>Test results:</td><td colspan="6">Pass</td></tr>
</table>

Remarks:

1. *Only the worst case Main Antenna test data.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

Measurement Data:

9 kHz ~ 30 MHz

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

All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.

Ant 0° value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0.0151	36.90	20.71	57.61	124.03	-66.42	AVG
0.0281	33.40	19.88	53.28	118.63	-65.35	AVG
0.0450	30.80	19.61	50.41	114.54	-64.13	AVG
0.1914	27.20	17.18	44.38	101.97	-57.59	AVG
2.2847	31.40	16.95	48.35	69.54	-21.19	QP
4.0920	22.70	15.69	38.39	69.54	-31.15	QP

Ant 90° value:

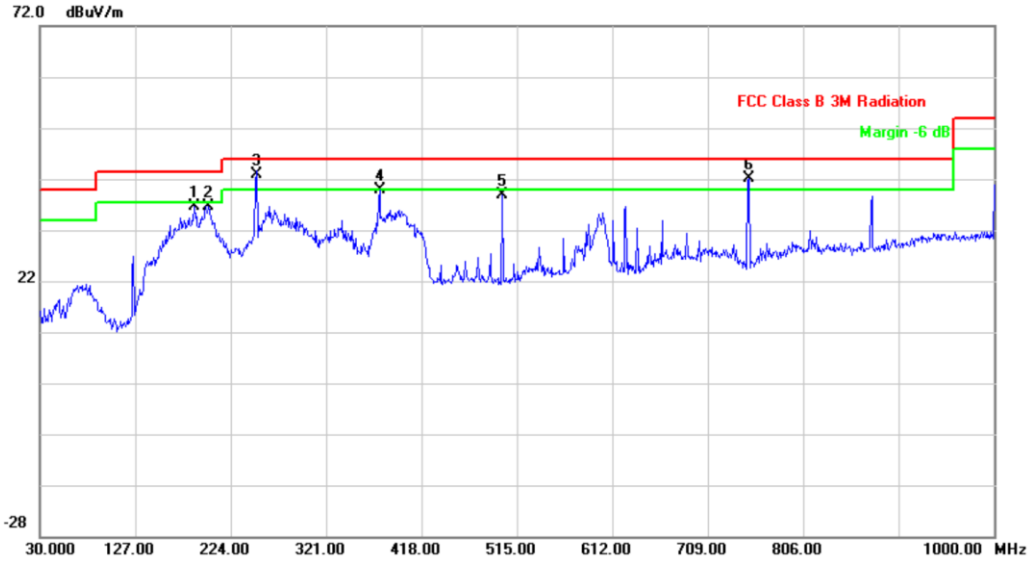
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0.0150	33.60	20.72	54.32	124.08	-69.76	AVG
0.0354	27.70	19.77	47.47	116.62	-69.15	AVG
0.0554	27.20	19.42	46.62	112.73	-66.11	AVG
0.2280	25.30	17.10	42.40	100.45	-58.05	AVG
2.2486	26.90	16.97	43.87	69.54	-25.67	QP
6.5227	22.60	14.91	37.51	69.54	-32.03	QP

30MHz~ 1GHz

Pre-scan all test modes, found worst case at 802.11ax(HT20), and so only show the test result of 802.11ax(HT20)

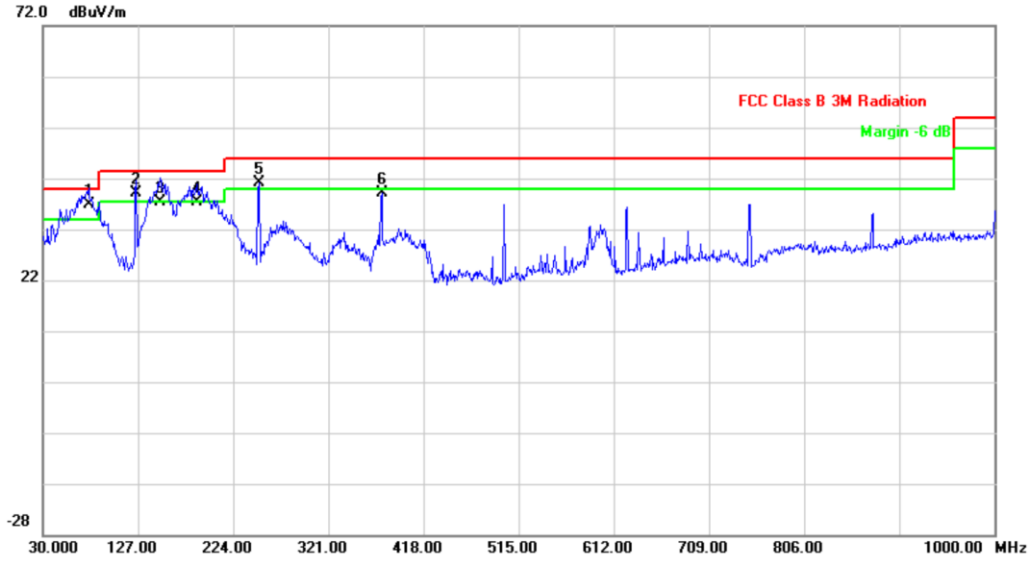
All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		187.1400	21.89	14.85	36.74	43.50	-6.76	QP	200	54	
2		200.7200	21.08	15.67	36.75	43.50	-6.75	QP	200	297	
3	*	250.0100	26.34	16.45	42.79	46.00	-3.21	QP	100	74	
4		375.3200	20.83	19.00	39.83	46.00	-6.17	QP	100	227	
5		500.4500	17.44	21.46	38.90	46.00	-7.10	QP	200	49	
6	!	750.7100	16.95	25.08	42.03	46.00	-3.97	QP	100	43	

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	76.5600	22.19	14.73	36.92	40.00	-3.08	QP	100	327	
2	!	125.0000	24.22	14.88	39.10	43.50	-4.40	QP	100	78	
3		149.3100	22.33	15.09	37.42	43.50	-6.08	QP	100	178	
4		187.5200	21.90	15.52	37.42	43.50	-6.08	QP	100	180	
5	!	250.1900	24.77	16.45	41.22	46.00	-4.78	QP	200	37	
6		375.3200	20.11	19.00	39.11	46.00	-6.89	QP	100	135	

Above 1GHz:

All the antennas were tested, and only show the worst case (ANT1) in this report.

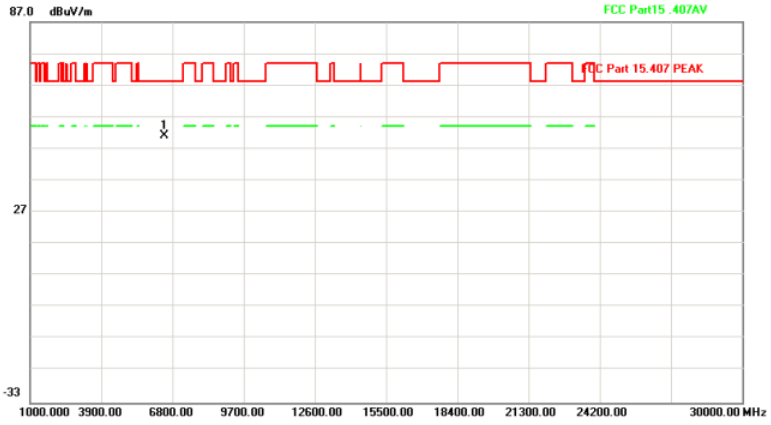
802.11a	5180

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5180
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



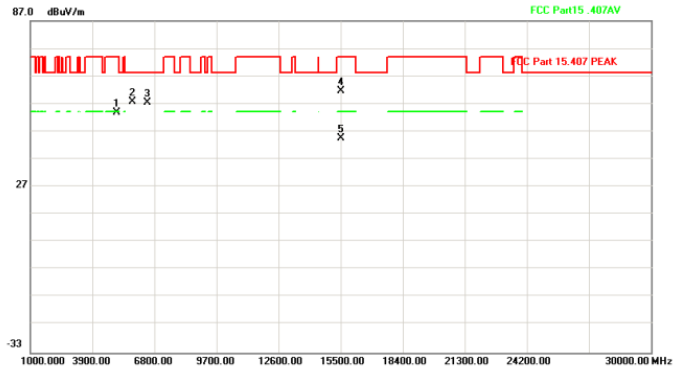
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	6481.000	47.86	3.25	51.11	68.20	-17.09	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5180
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5031.000	54.36	-0.42	53.94	74.00	-20.06	peak	
2		5785.000	55.79	1.87	57.66	68.20	-10.54	peak	
3		6452.000	54.20	3.21	57.41	68.20	-10.79	peak	
4		15529.000	51.94	9.81	61.75	74.00	-12.25	peak	
5	*	15538.000	34.60	9.83	44.43	54.00	-9.57	AVG	

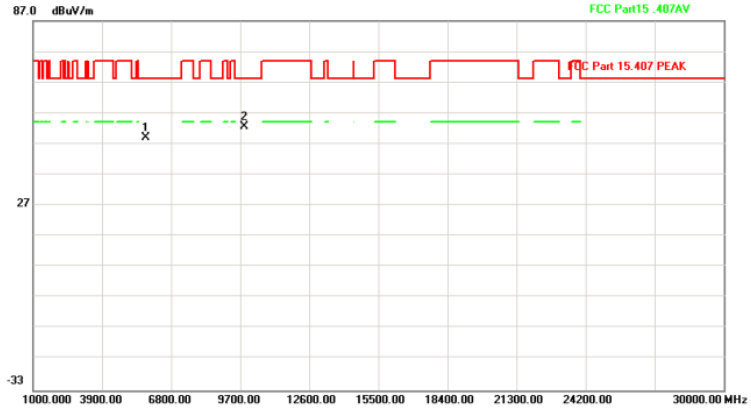
802.11a	5200

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5200
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



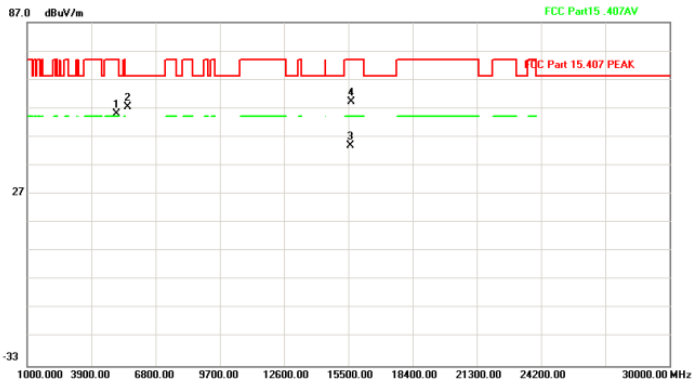
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5727.000	47.22	1.69	48.91	68.20	-19.29	peak	
2	*	9874.000	43.81	8.72	52.53	68.20	-15.67	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5200
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5031.000	55.49	-0.42	55.07	74.00	-18.93	peak	
2		5524.000	56.51	1.08	57.59	68.20	-10.61	peak	
3	*	15592.000	33.92	9.93	43.85	54.00	-10.15	AVG	
4		15616.000	49.28	9.97	59.25	74.00	-14.75	peak	

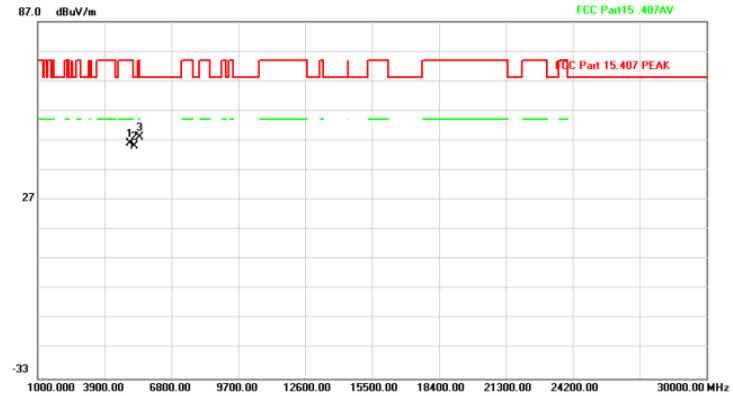
802.11a	5220

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5220
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



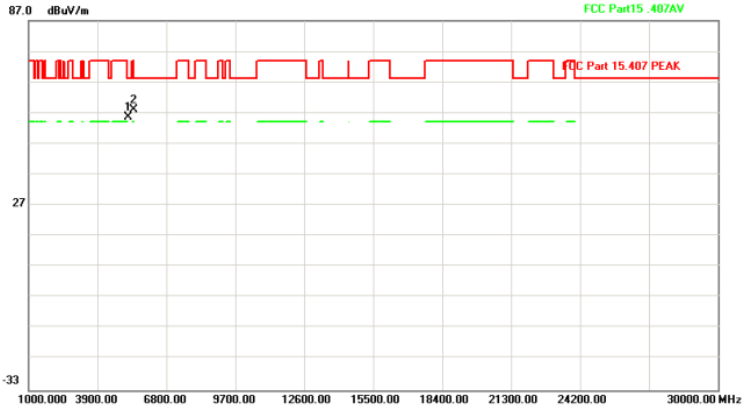
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5002.000	46.49	-0.50	45.99	74.00	-28.01	peak	
2	*	5205.000	45.19	0.11	45.30	68.20	-22.90	peak	
3		5437.000	47.21	0.81	48.02	74.00	-25.98	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5220
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5205.000	55.48	0.11	55.59	68.20	-12.61	peak	
2		5437.000	57.31	0.81	58.12	74.00	-15.88	peak	

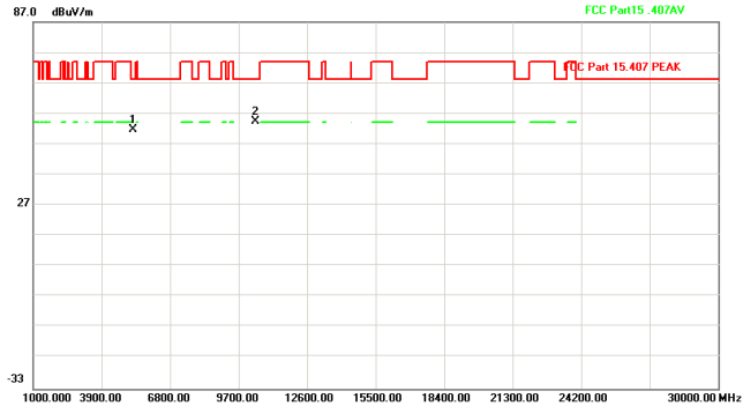
802.11a	5240

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5240
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



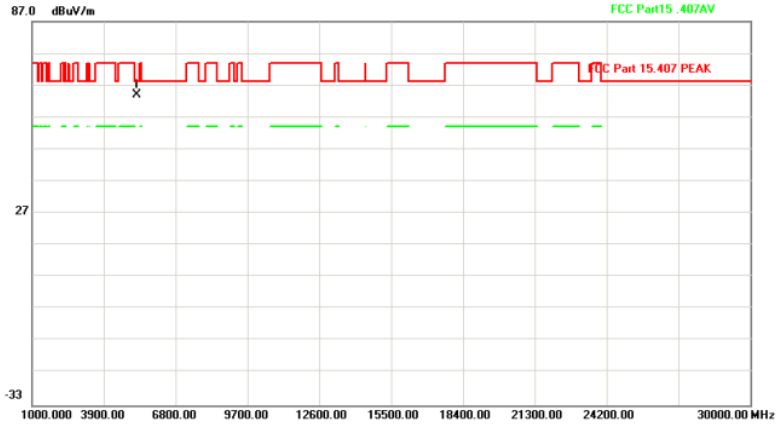
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5234.000	51.64	0.20	51.84	68.20	-16.36	peak	
2	*	10425.000	45.59	8.92	54.51	68.20	-13.69	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11a 5240
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5234.000	63.79	0.20	63.99	68.20	-4.21	peak	

All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.

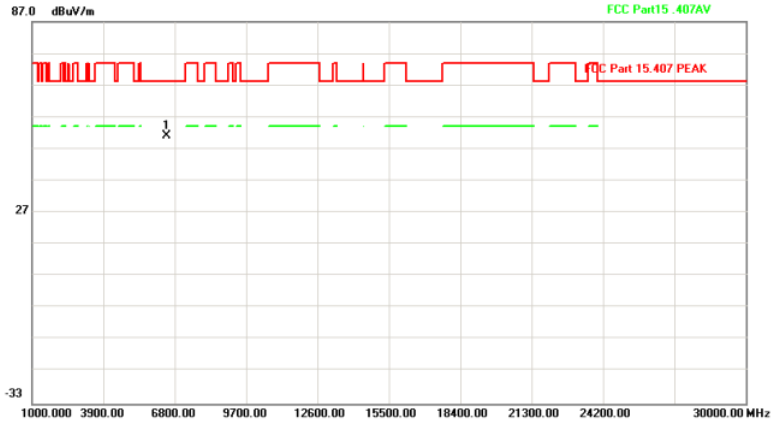
802.11axHT20	5180

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5180
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



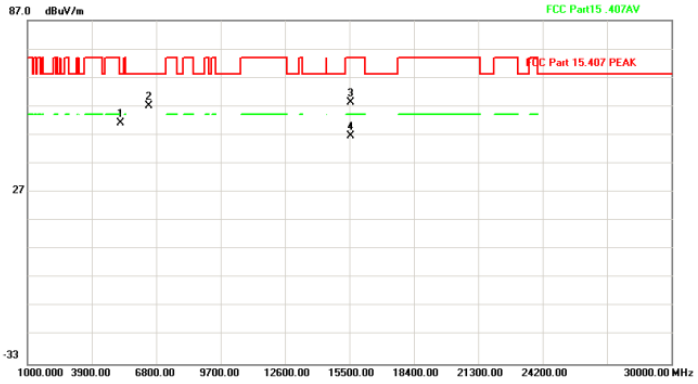
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	6452.000	48.03	3.21	51.24	68.20	-16.96	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5180
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5176.000	51.24	0.02	51.26	68.20	-16.94	peak	
2		6452.000	53.86	3.21	57.07	68.20	-11.13	peak	
3		15558.000	48.59	9.86	58.45	74.00	-15.55	peak	
4	*	15558.000	36.74	9.86	46.60	54.00	-7.40	AVG	

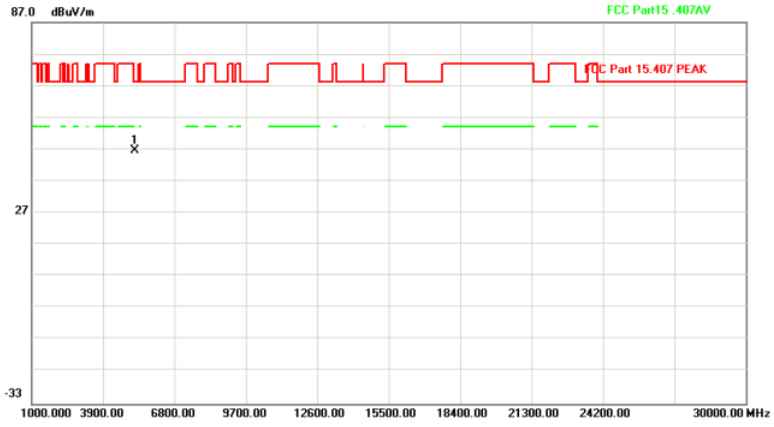
802.11axHT20	5200

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5200
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



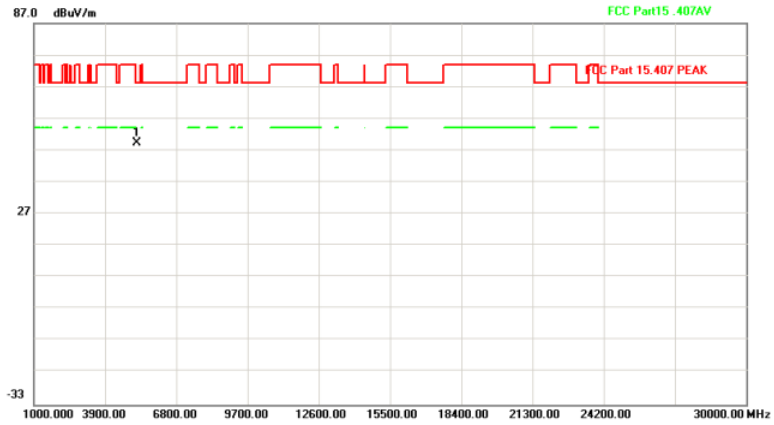
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5176.000	46.58	0.02	46.60	68.20	-21.60	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5200
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5176.000	49.31	0.02	49.33	68.20	-18.87	peak	

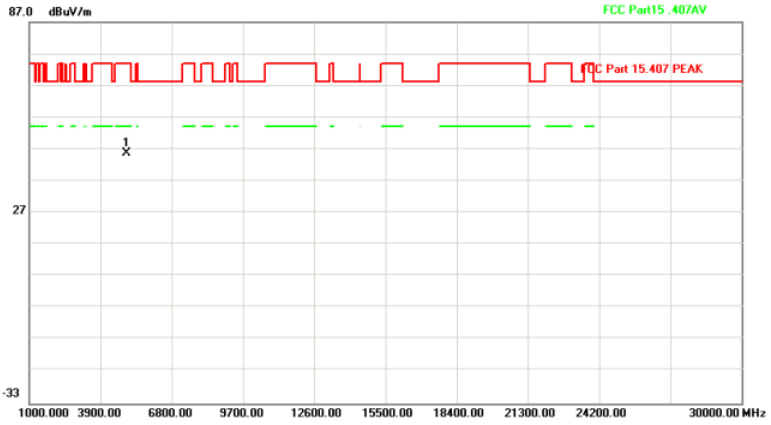
802.11axHT20	5220

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5220
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



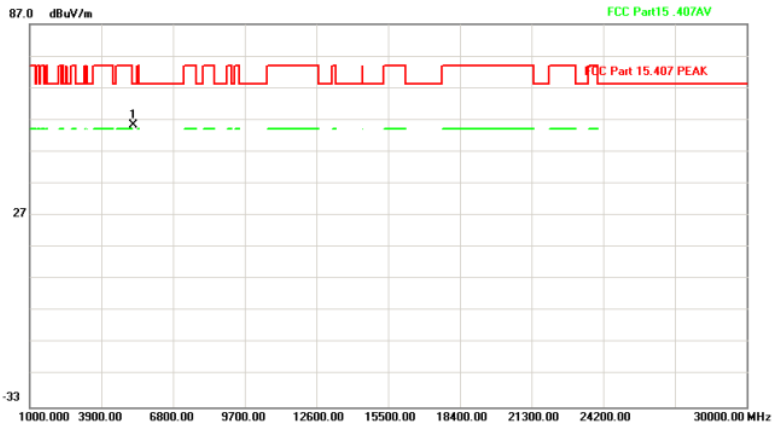
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4973.000	46.32	-0.68	45.64	74.00	-28.36	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5220
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5205.000	55.22	0.11	55.33	68.20	-12.87	peak	

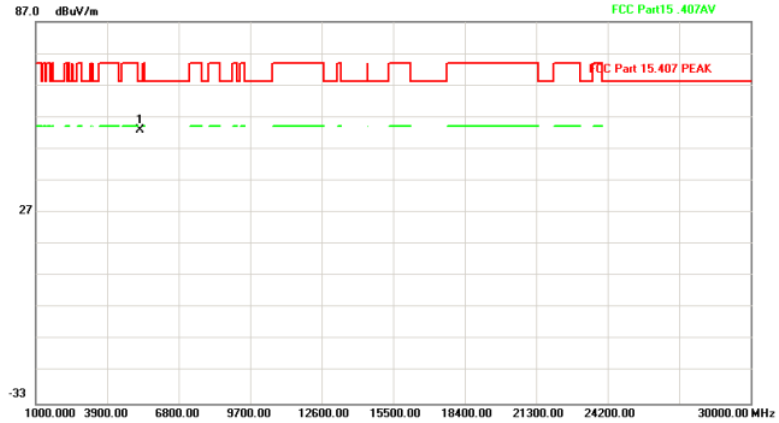
802.11axHT20	5240

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5240
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



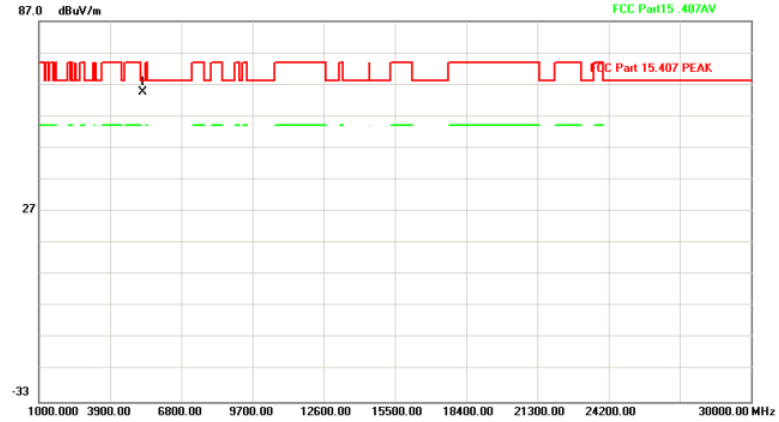
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5234.000	52.71	0.20	52.91	68.20	-15.29	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT20 5240
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5234.000	64.33	0.20	64.53	68.20	-3.67	peak	

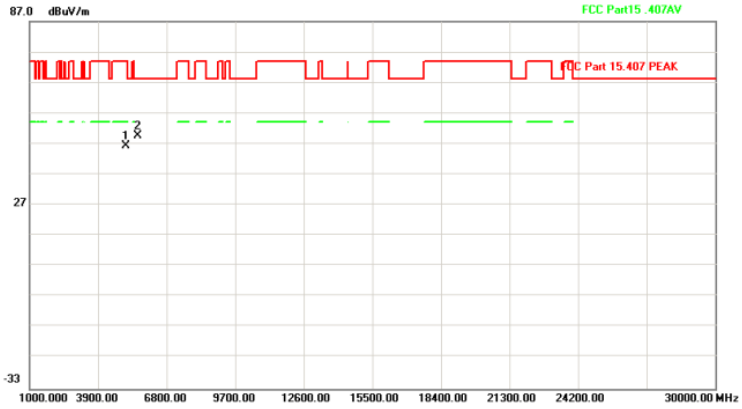
802.11ax HT40	5190

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT40 5190
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



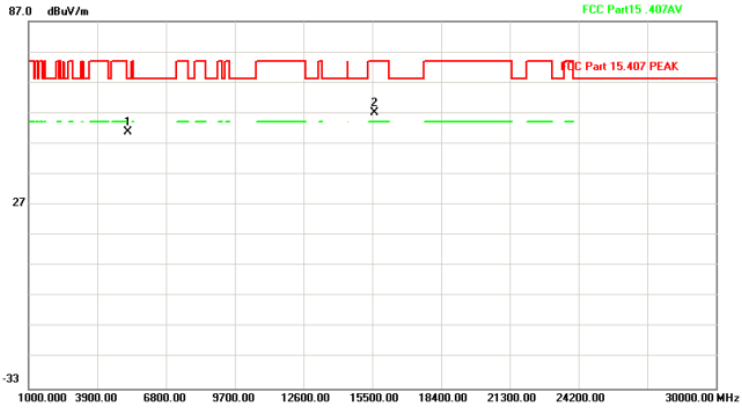
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5060.000	46.65	-0.33	46.32	74.00	-27.68	peak	
2	*	5582.000	48.30	1.25	49.55	68.20	-18.65	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT40 5190
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5176.000	50.89	0.02	50.91	68.20	-17.29	peak	
2	*	15587.000	47.27	9.92	57.19	74.00	-16.81	peak	

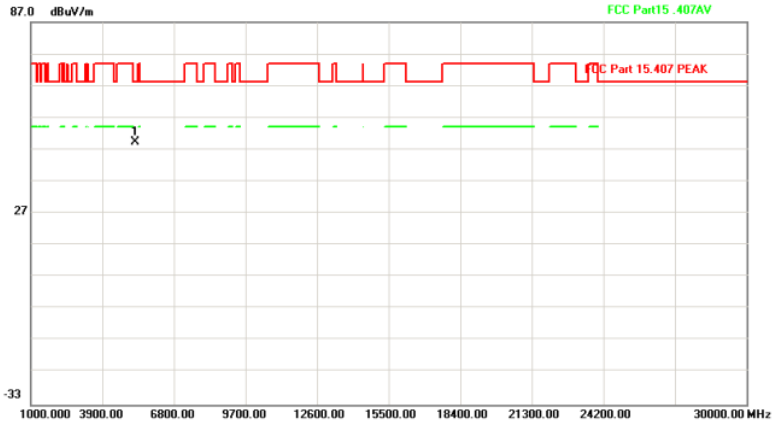
802.11ax HT40	5230

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT40 5230
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



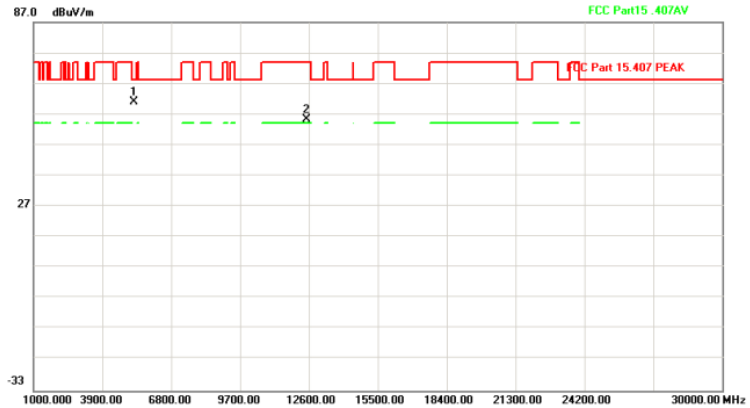
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5234.000	49.16	0.20	49.36	68.20	-18.84	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT40 5230
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5234.000	60.83	0.20	61.03	68.20	-7.17	peak	
2		12484.000	44.86	10.56	55.42	74.00	-18.58	peak	

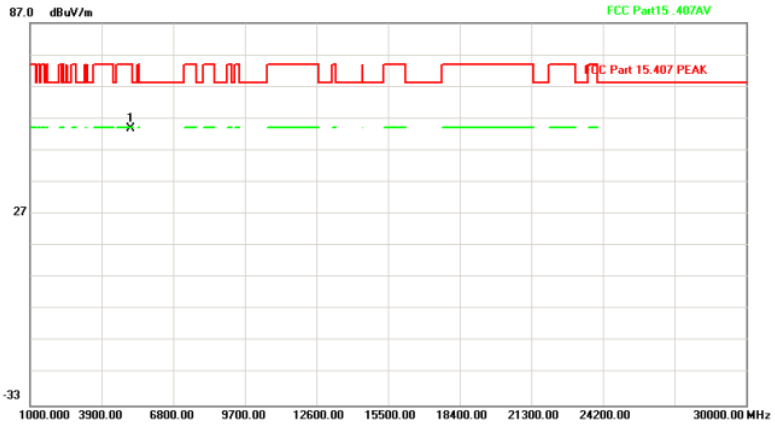
802.11ax HT80	5210

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT80 5210
Note:

Polarization: *Horizontal*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



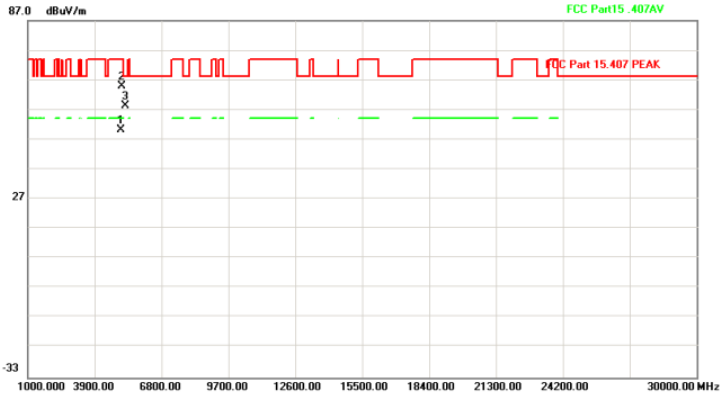
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5060.000	54.04	-0.33	53.71	74.00	-20.29	peak	

Site site #1
Limit: FCC Part 15.407 PEAK
EUT: W6 WIFI6
M/N:
Mode: 11ax HT80 5210
Note:

Polarization: *Vertical*
Power:

Temperature: 25
Humidity: 55 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5057.000	50.68	-0.34	50.34	54.00	-3.66	AVG	
2		5060.000	65.19	-0.33	64.86	74.00	-9.14	peak	
3		5234.000	58.06	0.20	58.26	68.20	-9.94	peak	

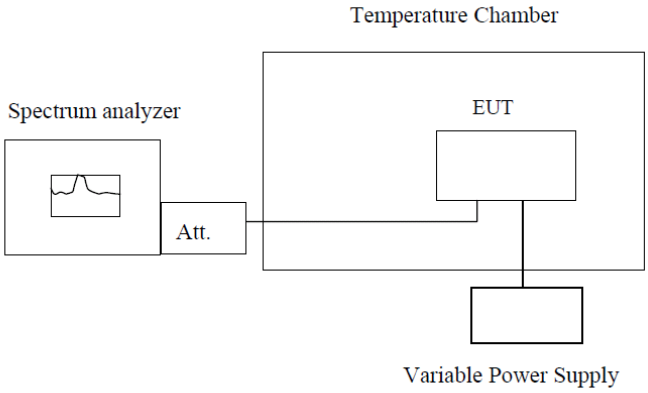
Notes:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.

2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180.0000
138	5180.0126
120	5180.0225
102	5180.0168
Max. Deviation (MHz)	0.0225
Max. Deviation (ppm)	4.34

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(℃)	5180.0000
-5	5180.0152
5	5180.0129
15	5180.0243
25	5180.0168
35	5180.0147
45	5180.0128
Max. Deviation (MHz)	0.0243
Max. Deviation (ppm)	4.69

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

---END---