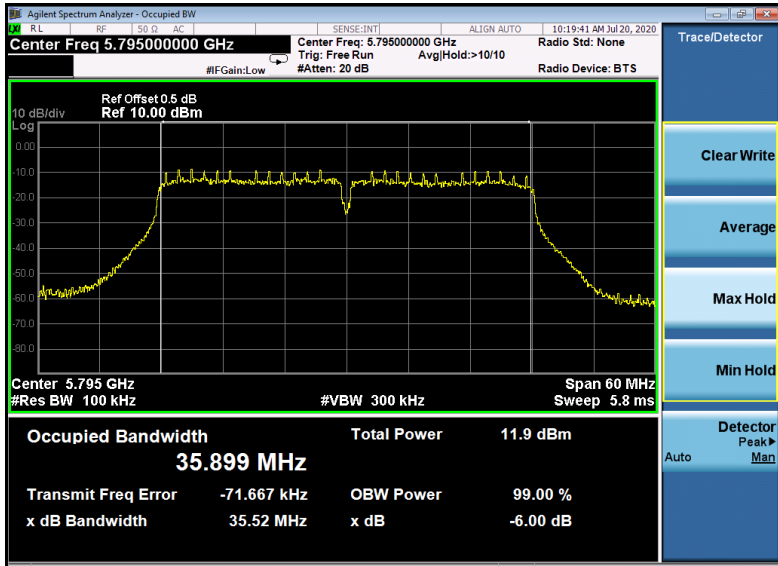
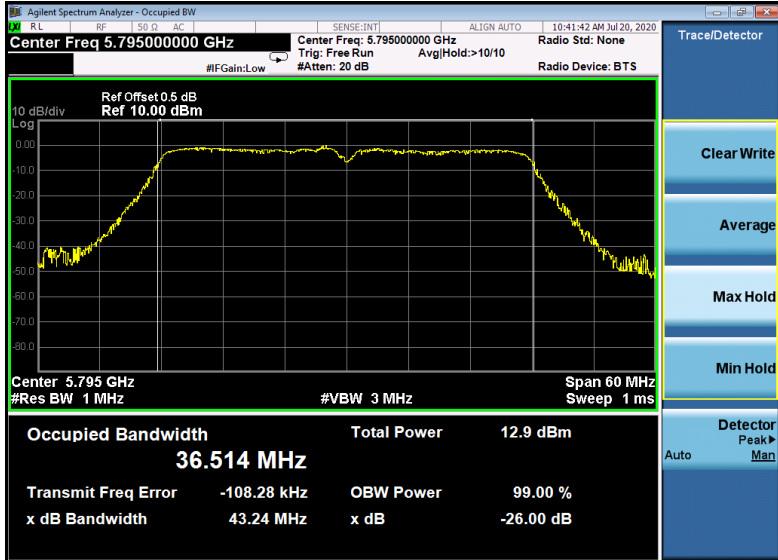
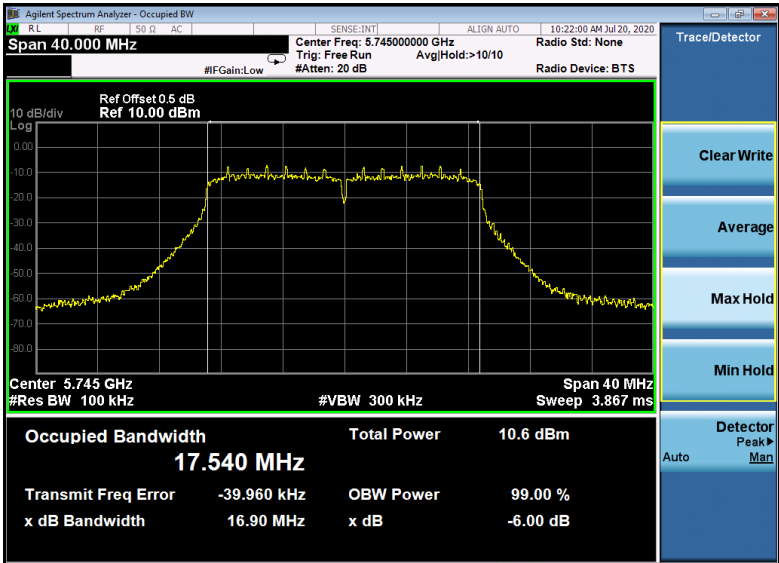
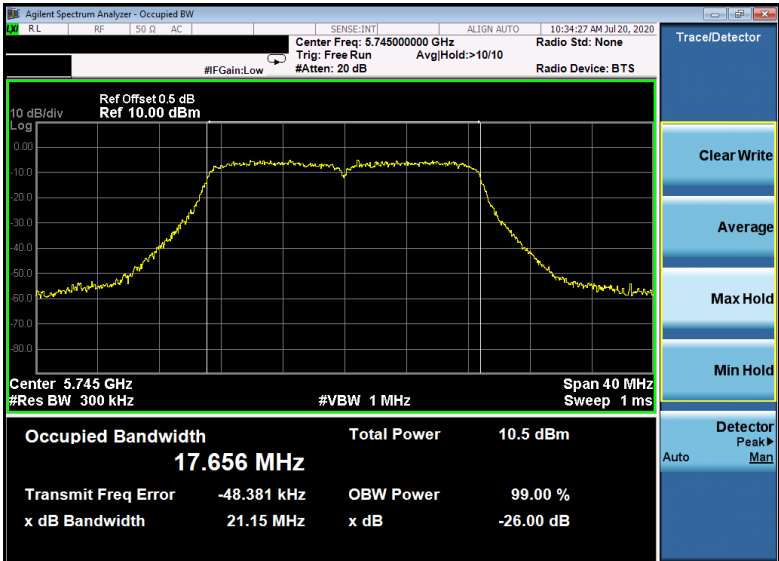
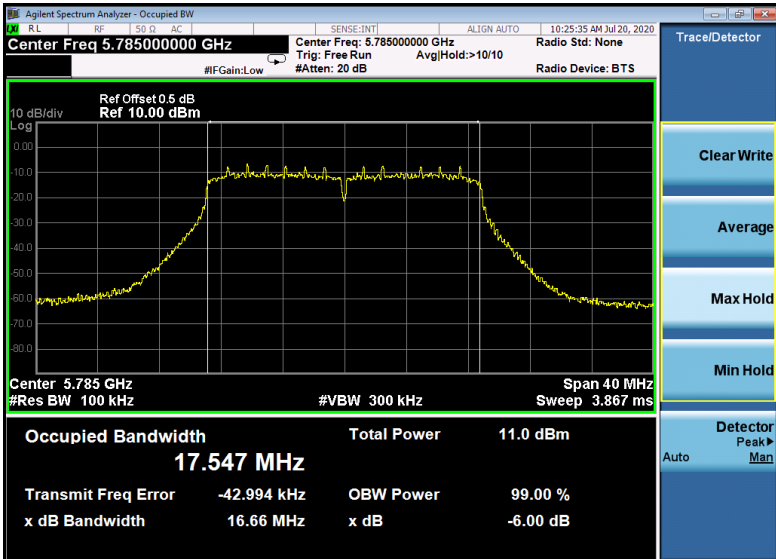
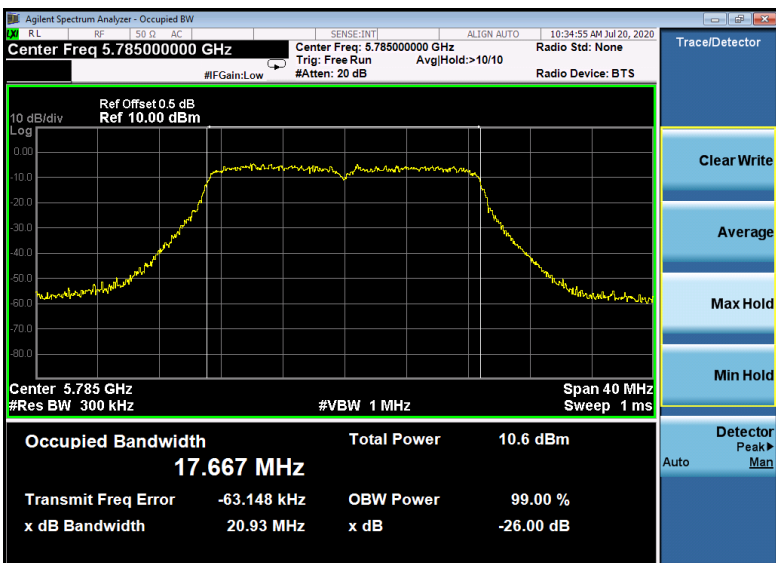
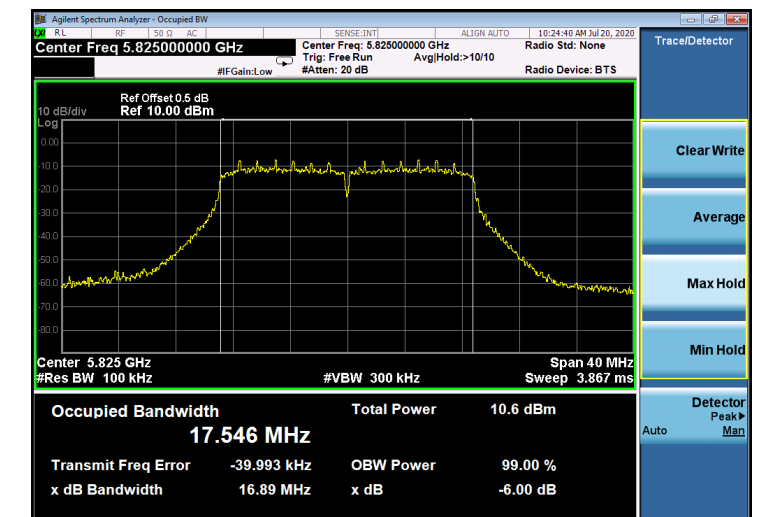
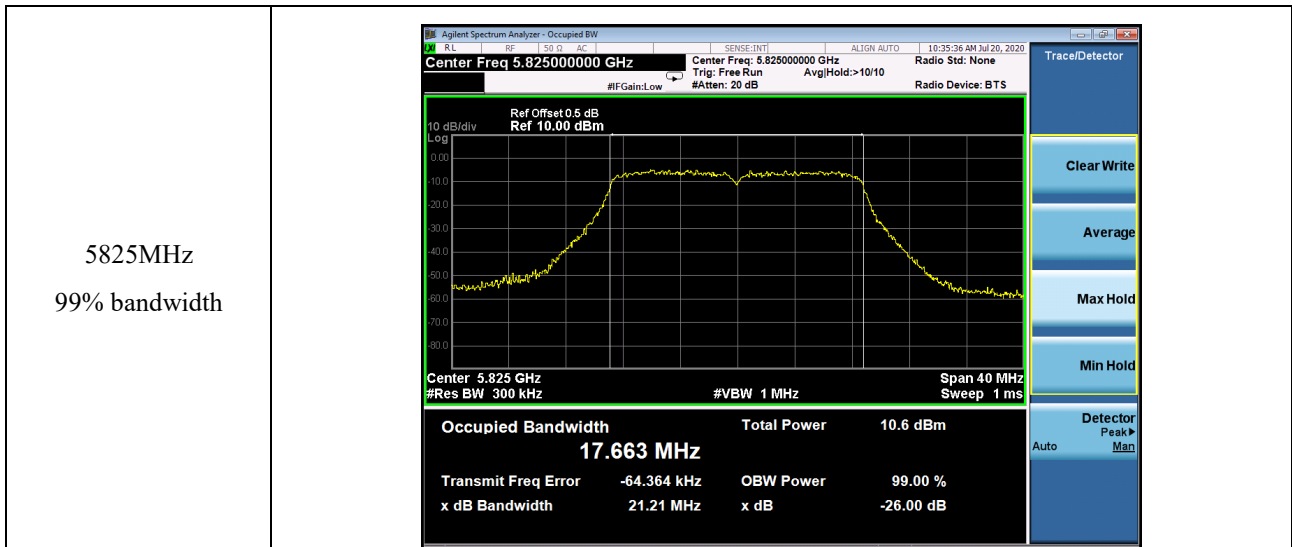
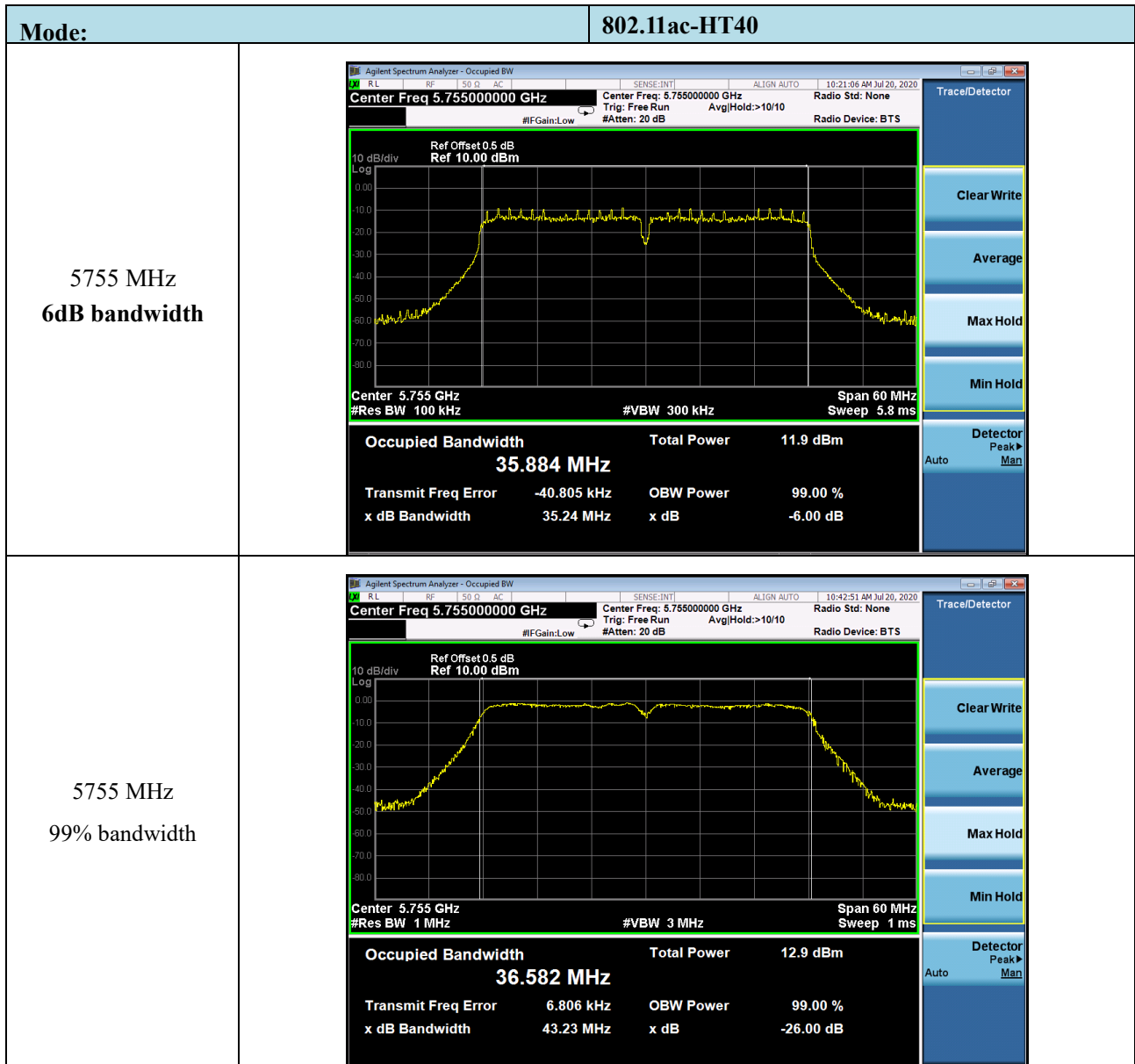


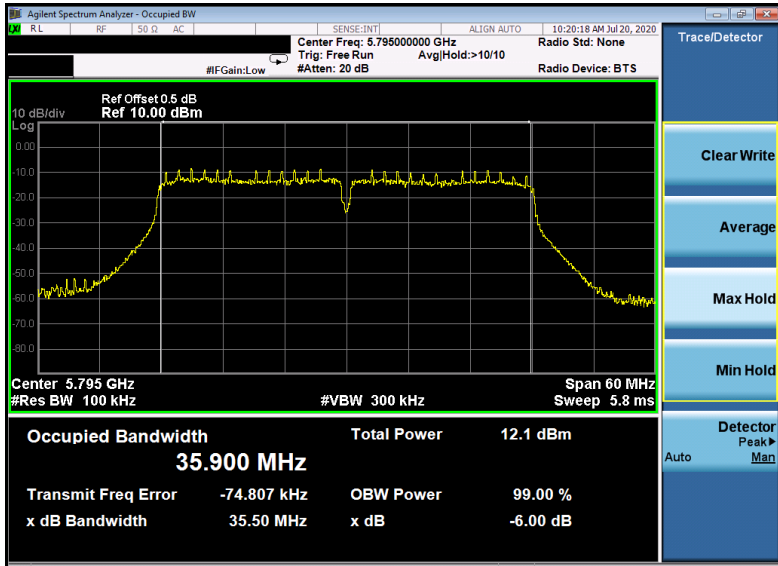
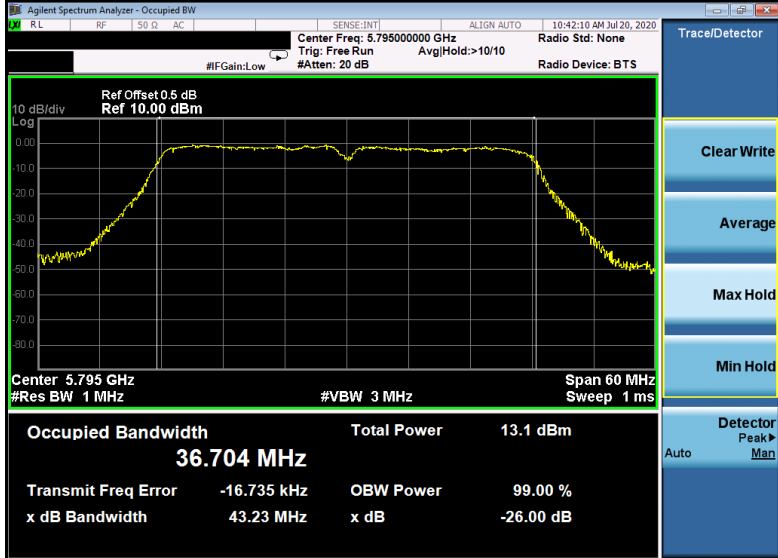
<p>5795 MHz 6dB bandwidth</p>	
<p>5795 MHz 99% bandwidth</p>	

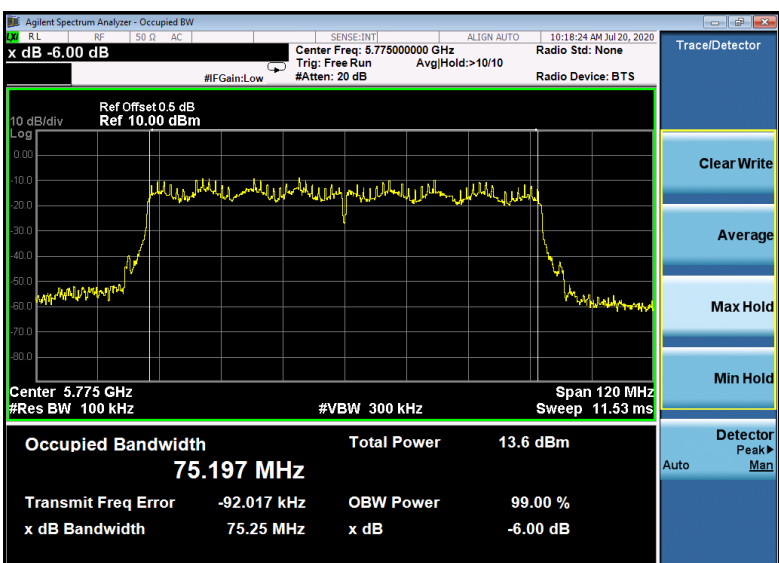
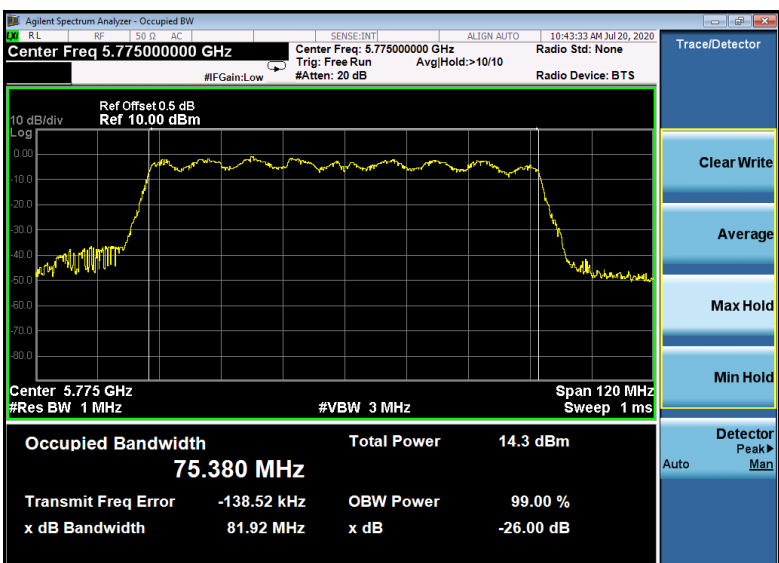
Mode:		802.11ac-HT20																		
<p>5745MHz 6dB bandwidth</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Span 40.000 MHz Center Freq: 5.745000000 GHz Radio Std: None</p> <p>Ref Offset 0.5 dB Ref 10.00 dBm</p> <p>Center 5.745 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 3.867 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>10.6 dBm</td> </tr> <tr> <td>17.540 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-39.960 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>16.90 MHz</td> <td></td> <td></td> </tr> </table>		Occupied Bandwidth	Total Power	10.6 dBm	17.540 MHz			Transmit Freq Error	OBW Power	99.00 %	-39.960 kHz	x dB	-6.00 dB	x dB Bandwidth			16.90 MHz		
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x dB Bandwidth																				
16.90 MHz																				
<p>5745MHz 99% bandwidth</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.745000000 GHz Radio Std: None</p> <p>Ref Offset 0.5 dB Ref 10.00 dBm</p> <p>Center 5.745 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>10.5 dBm</td> </tr> <tr> <td>17.656 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-48.381 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>21.15 MHz</td> <td></td> <td></td> </tr> </table>		Occupied Bandwidth	Total Power	10.5 dBm	17.656 MHz			Transmit Freq Error	OBW Power	99.00 %	-48.381 kHz	x dB	-26.00 dB	x dB Bandwidth			21.15 MHz		
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<p>5785MHz 6dB bandwidth</p>	 <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 5.785000000 GHz Center Freq: 5.785000000 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth: 17.547 MHz Total Power: 11.0 dBm Transmit Freq Error: -42.994 kHz x dB Bandwidth: 16.66 MHz</p>
<p>5785MHz 99% bandwidth</p>	 <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 5.785000000 GHz Center Freq: 5.785000000 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth: 17.667 MHz Total Power: 10.6 dBm Transmit Freq Error: -63.148 kHz x dB Bandwidth: 20.93 MHz</p>
<p>5825MHz 6dB bandwidth</p>	 <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 5.825000000 GHz Center Freq: 5.825000000 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth: 17.546 MHz Total Power: 10.6 dBm Transmit Freq Error: -39.993 kHz x dB Bandwidth: 16.89 MHz</p>





<p>5795 MHz 6dB bandwidth</p>	
<p>5795 MHz 99% bandwidth</p>	

Mode:		802.11ac-HT80																		
<p>5755 MHz 6dB bandwidth</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.775000000 GHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 0.5 dB Ref 10.00 dBm</p> <p>Center 5.775 GHz #Res BW 100 kHz #VBW 300 kHz Span 120 MHz Sweep 11.53 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>13.6 dBm</td> </tr> <tr> <td>75.197 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-92.017 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>75.25 MHz</td> <td></td> <td></td> </tr> </table>		Occupied Bandwidth	Total Power	13.6 dBm	75.197 MHz			Transmit Freq Error	OBW Power	99.00 %	-92.017 kHz			x dB Bandwidth	x dB	-6.00 dB	75.25 MHz		
Occupied Bandwidth	Total Power	13.6 dBm																		
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<p>5755 MHz 99% bandwidth</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.775000000 GHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 0.5 dB Ref 10.00 dBm</p> <p>Center 5.775 GHz #Res BW 1 MHz #VBW 3 MHz Span 120 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>14.3 dBm</td> </tr> <tr> <td>75.380 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-138.52 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>81.92 MHz</td> <td></td> <td></td> </tr> </table>		Occupied Bandwidth	Total Power	14.3 dBm	75.380 MHz			Transmit Freq Error	OBW Power	99.00 %	-138.52 kHz			x dB Bandwidth	x dB	-26.00 dB	81.92 MHz		
Occupied Bandwidth	Total Power	14.3 dBm																		
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81.92 MHz																				

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

· Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.¹ However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

- The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.

(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

6.2 DEVIATION FROM STANDARD

No deviation.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.5 TEST RESULTS

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V
Test Mode :	TX (5.1G) Mode Frequency U-NII-1 (5180-5240MHz)		

Test Channel	Frequency	Maximum output power. Antenna port (AV)	LIMIT	Result
	(MHz)	(dBm)	dBm	
TX 802.11a Mode				
CH36	5180	6.17	23.98	Pass
CH40	5200	6.87	23.98	Pass
CH48	5240	7.25	23.98	Pass
TX 802.11 n20M Mode				
CH36	5180	6.37	23.98	Pass
CH40	5200	6.63	23.98	Pass
CH48	5240	6.22	23.98	Pass
TX 802.11 n40M Mode				
CH38	5190	5.74	23.98	Pass
CH46	5230	5.69	23.98	Pass
TX 802.11 AC20M Mode				
CH36	5180	6.55	23.98	Pass
CH40	5200	6.73	23.98	Pass
CH48	5240	6.94	23.98	Pass
TX 802.11 AC40M Mode				
CH38	5190	5.37	23.98	Pass
CH46	5230	5.41	23.98	Pass
TX 802.11 AC80M Mode				
CH42	5210	4.49	23.98	Pass

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V
Test Mode :	TX (5.8G) Mode Frequency Band IV (5725-5825MHz)		

Test Channel	Frequency	Maximum output power. Antenna port (AV)	LIMIT	Result
	(MHz)	(dBm)	dBm	
TX 802.11a Mode				
CH 149	5745	6.76	30	Pass
CH 157	5785	6.65	30	Pass
CH 165	5825	6.69	30	Pass
TX 802.11 n20M Mode				
CH 149	5745	6.41	30	Pass
CH 157	5785	6.27	30	Pass
CH 165	5825	6.30	30	Pass
TX 802.11 n40M Mode				
CH 151	5755	5.22	30	Pass
CH 159	5795	5.18	30	Pass
TX 802.11 AC20M Mode				
CH 149	5745	6.39	30	Pass
CH 157	5785	6.36	30	Pass
CH 165	5825	6.20	30	Pass
TX 802.11 AC40M Mode				
CH 151	5755	4.93	30	Pass
CH 159	5795	4.88	30	Pass
TX 802.11 AC80M Mode				
CH 155	5775	3.71	30	Pass

7. OUT OF BAND EMISSIONS

7.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following 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 e.i.r.p. of -27 dBm/MHz.

(2) 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.

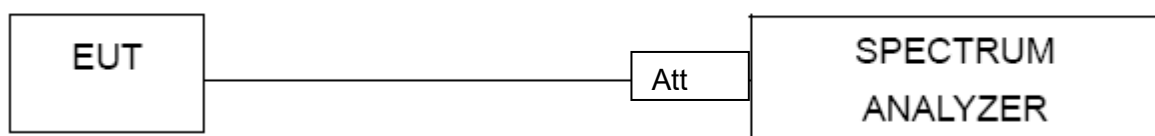
7.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

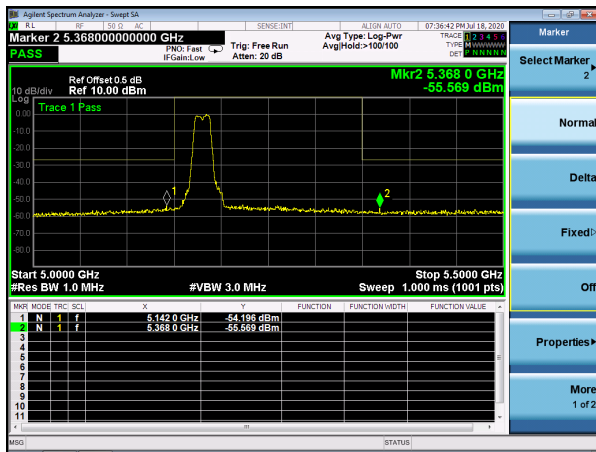
7.6 TEST RESULTS

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V

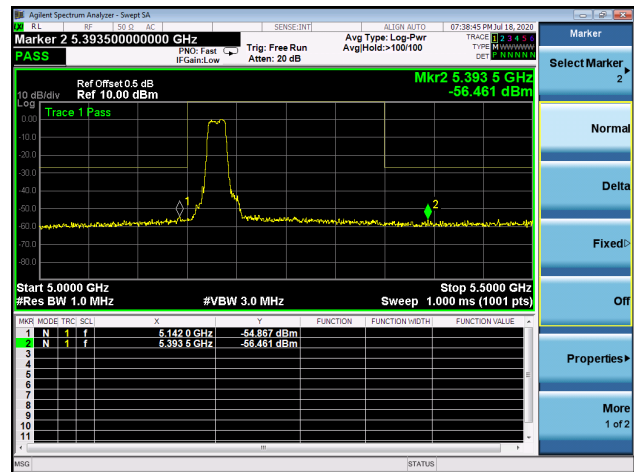
5.1G

5.180~5.240 GHz

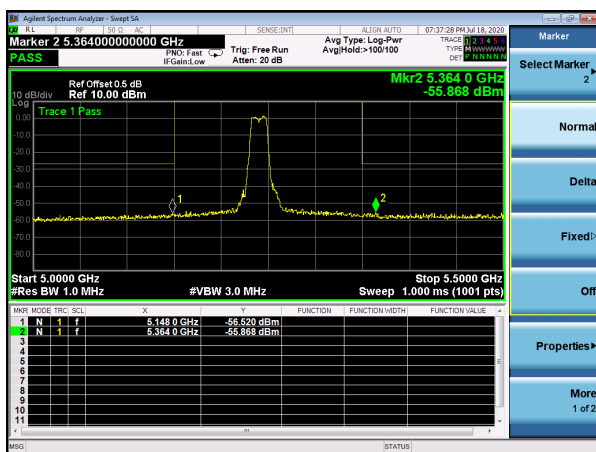
(802.11a) Band Edge, Left Side



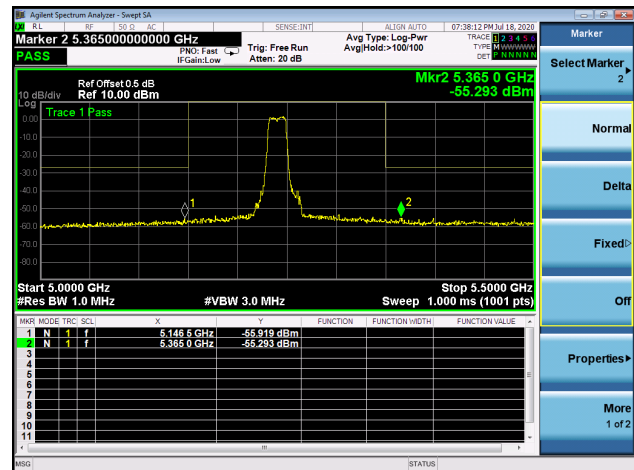
(802.11n20) Band Edge, Left Side



(802.11a) Band Edge, Right Side

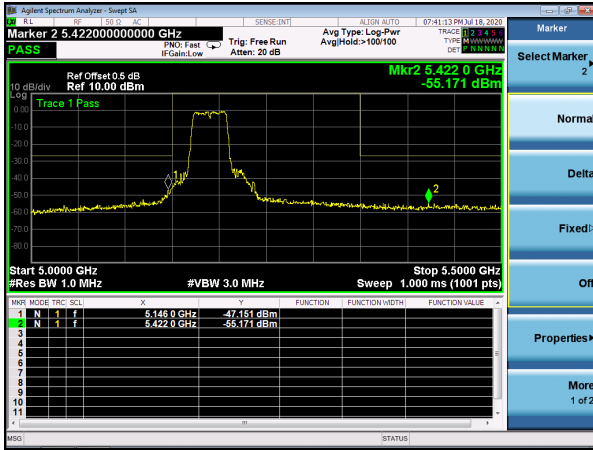


(802.11n20) Band Edge, Right Side

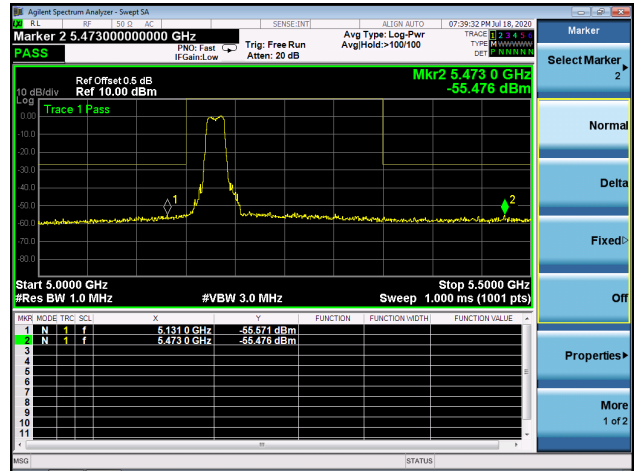


5.180~5.240 GHz

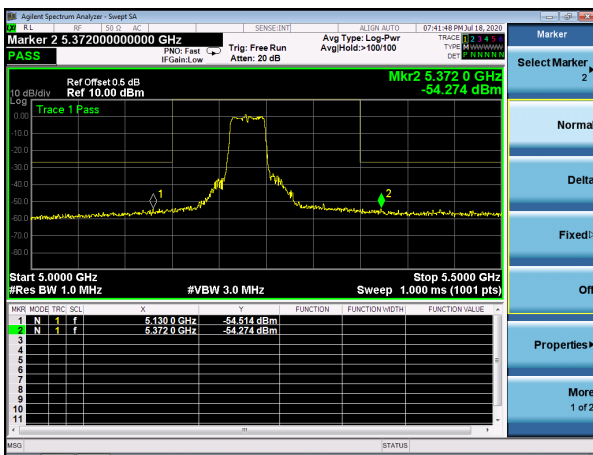
(802.11n40) Band Edge, Left Side



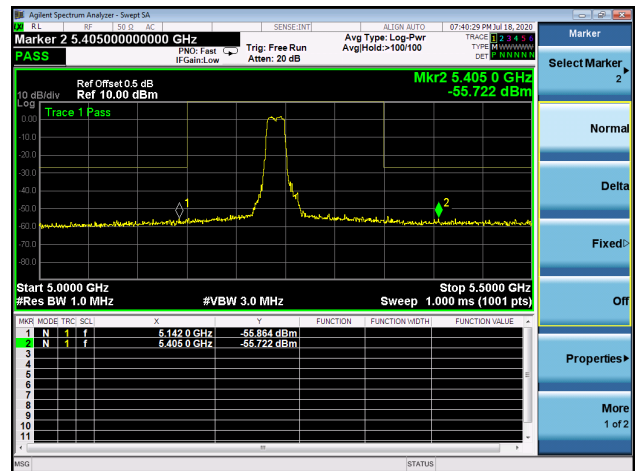
(802.11ac20) Band Edge, Left Side



(802.11n40) Band Edge, Right Side

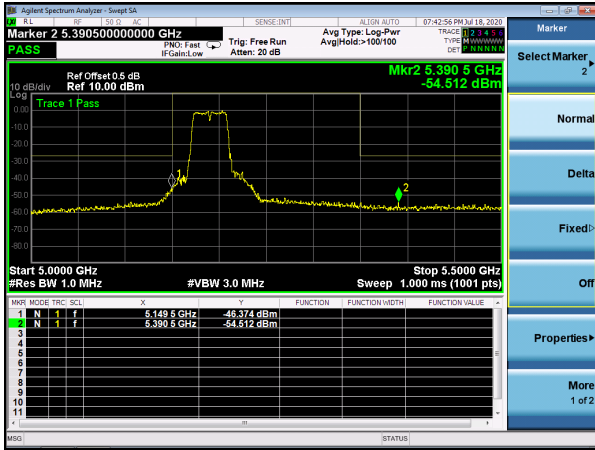


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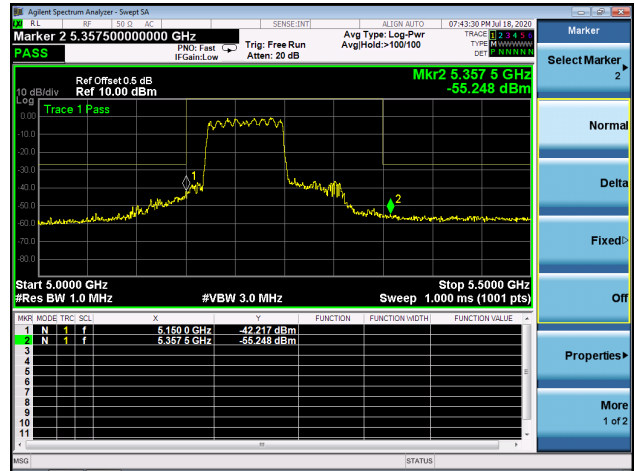


5.180~5.240 GHz

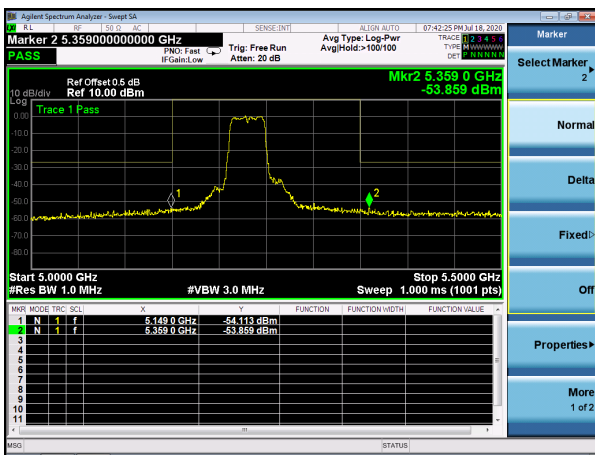
(802.11ac40) Band Edge, Left Side



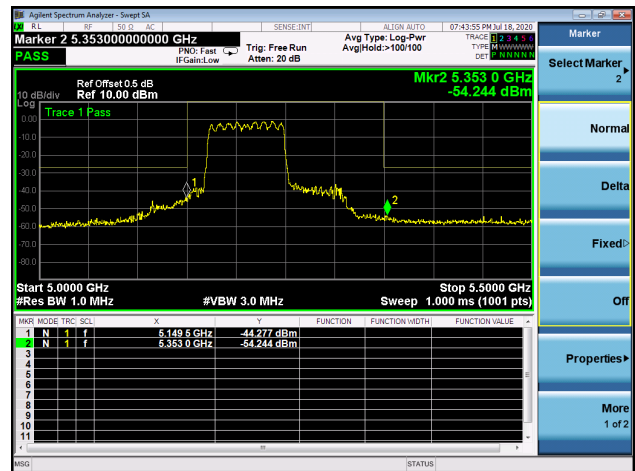
(802.11ac80) Band Edge, Left Side



(802.11ac40) Band Edge, Right Side



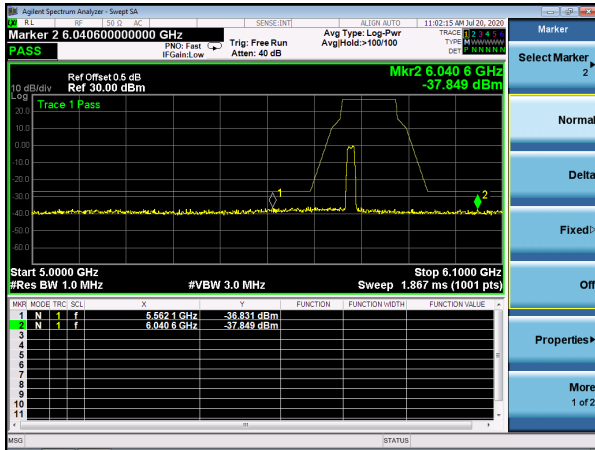
(802.11ac80) Band Edge, Right Side



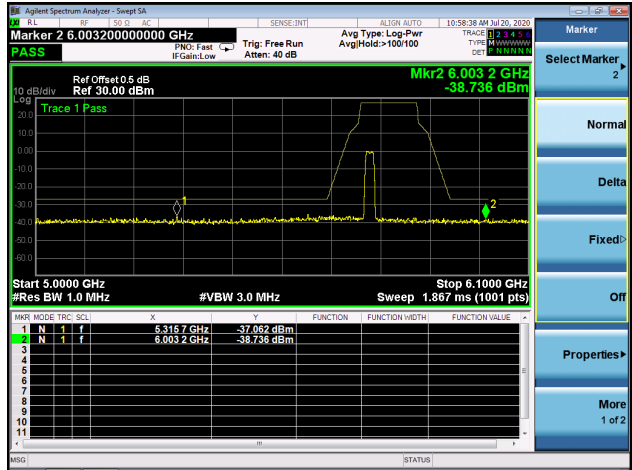
5.8G

5.745~5.825 GHz

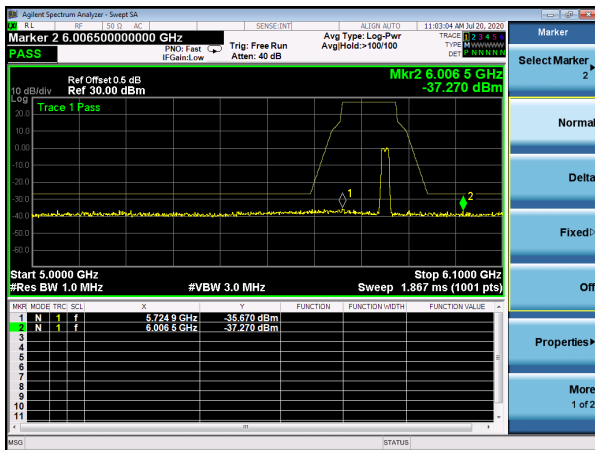
(802.11a) Band Edge, Left Side



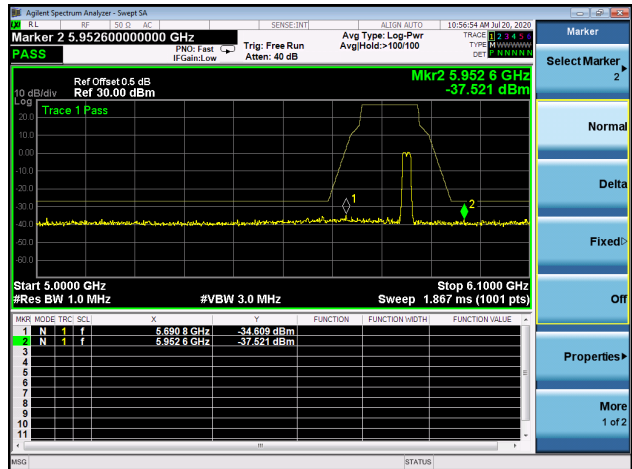
(802.11n20) Band Edge, Left Side



(802.11a) Band Edge, Right Side

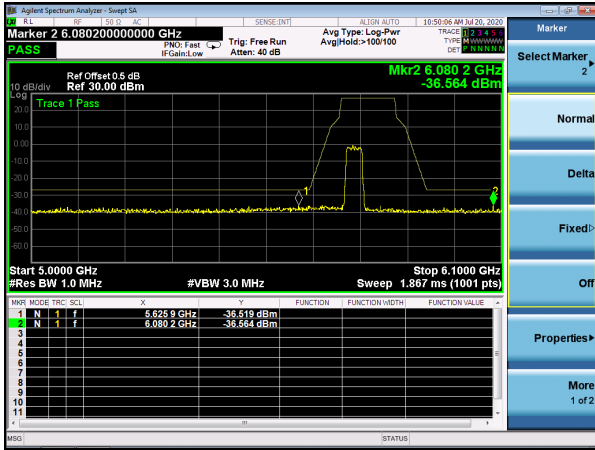


(802.11n20) Band Edge, Right Side

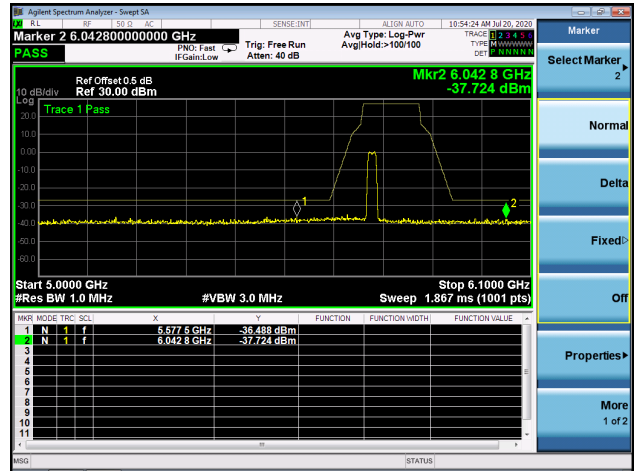


5.745~5.825 GHz

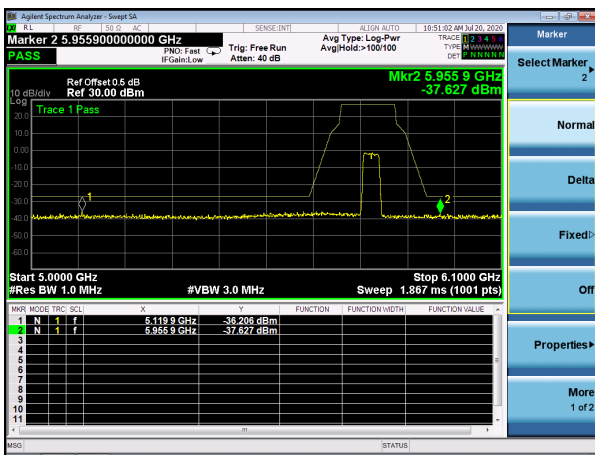
(802.11n40) Band Edge, Left Side



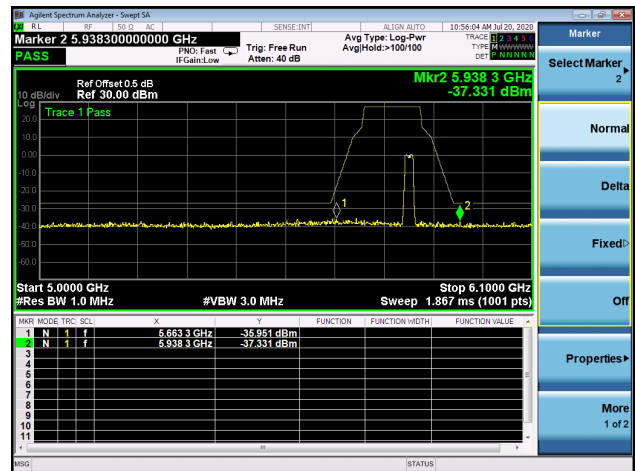
(802.11ac20) Band Edge, Left Side



(802.11n40) Band Edge, Right Side

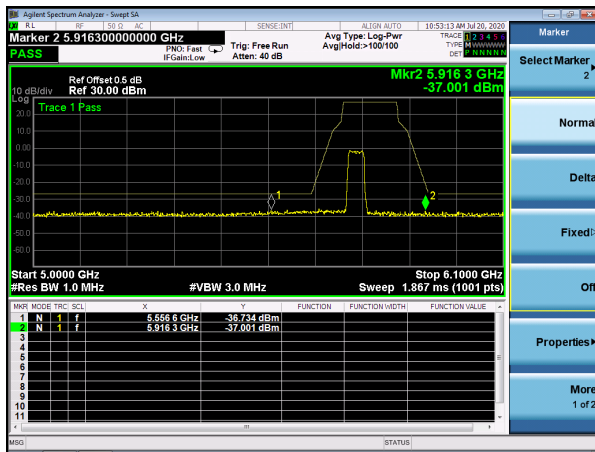


(802.11ac20) Band Edge, Right Side

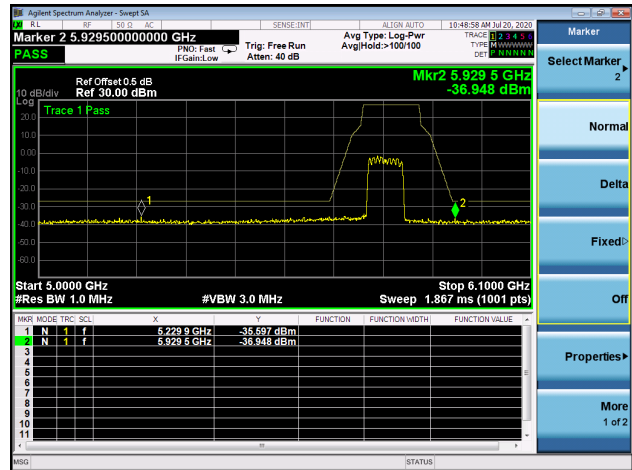


5.745~5.825 GHz

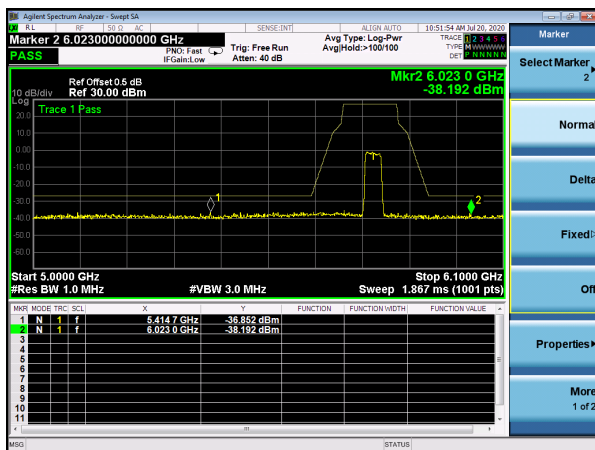
(802.11ac40) Band Edge, Left Side



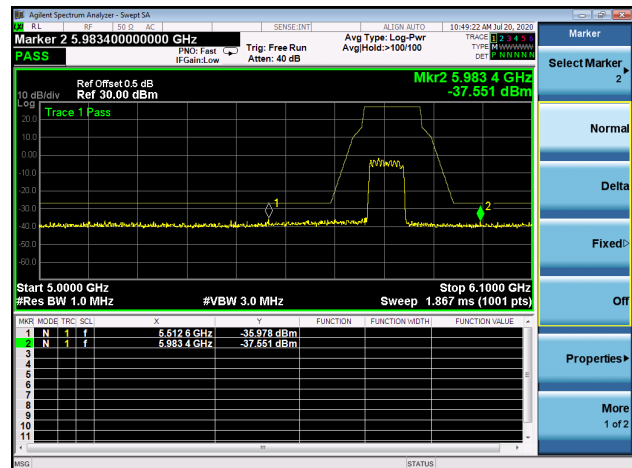
(802.11ac80) Band Edge, Left Side



(802.11ac40) Band Edge, Right Side



(802.11ac80) Band Edge, Right Side

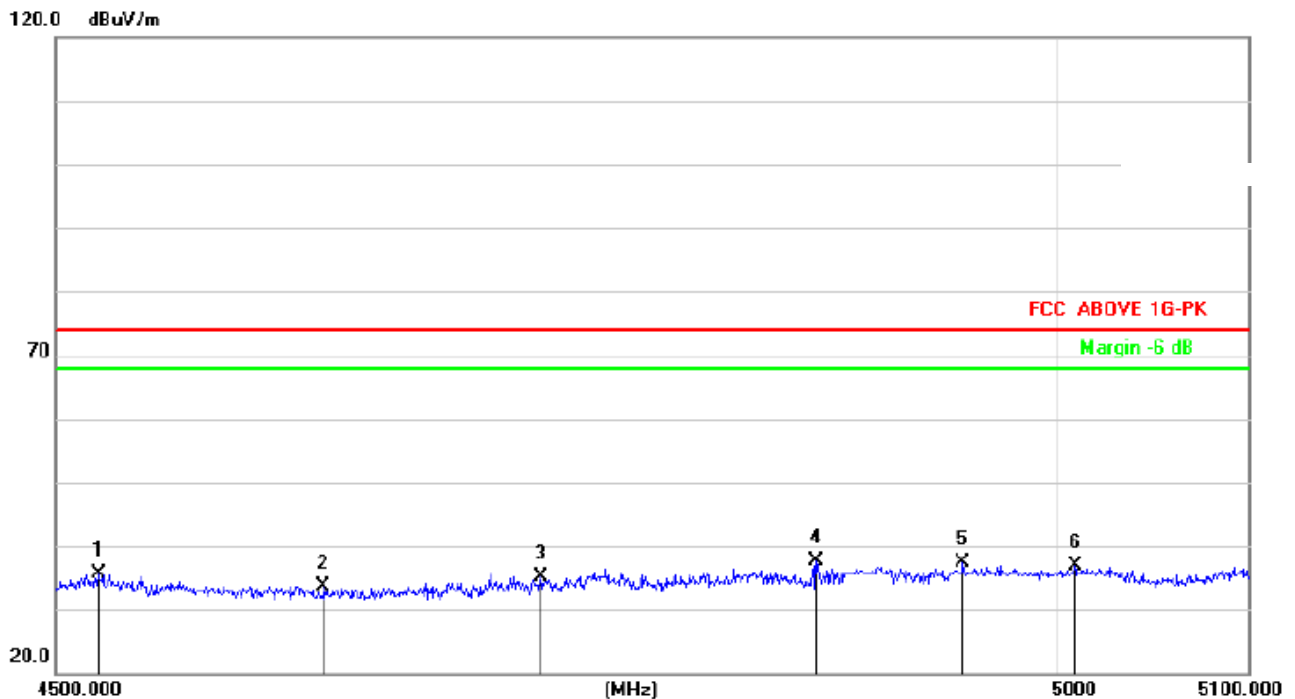


802.11 n40

For the frequency band 5190-5230MHz

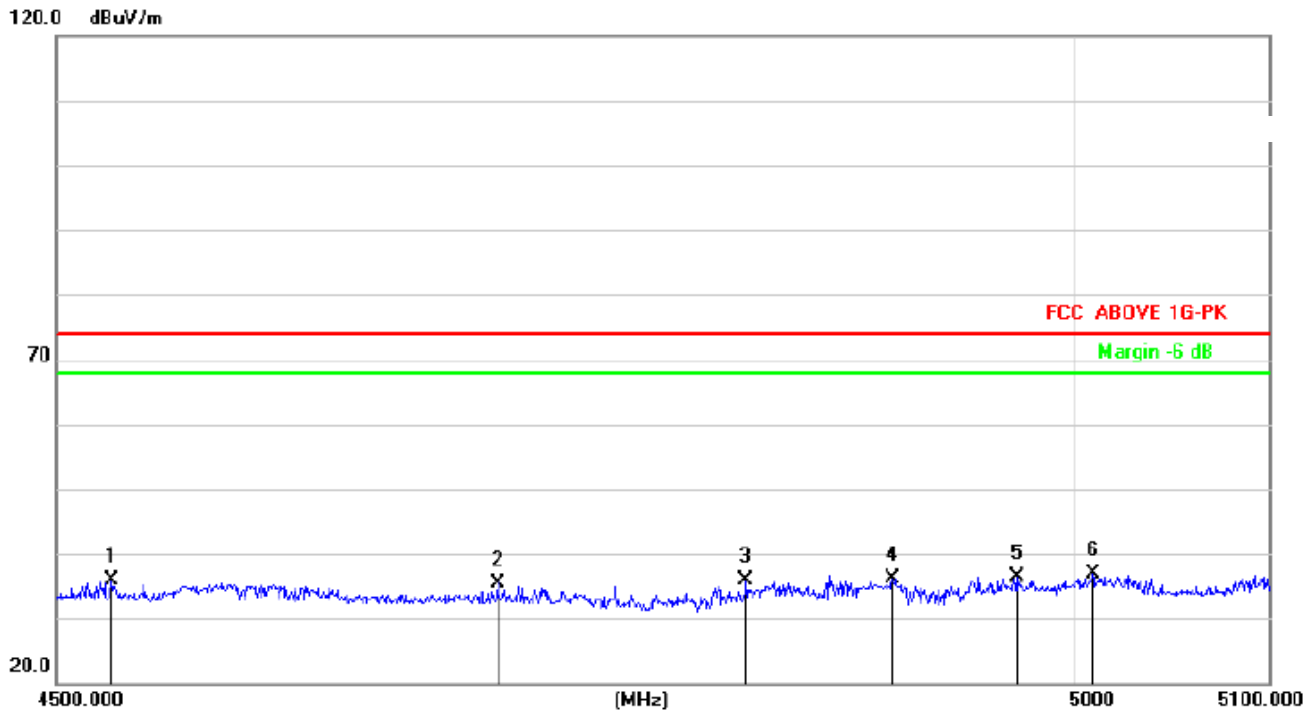
Radiated bandedge

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



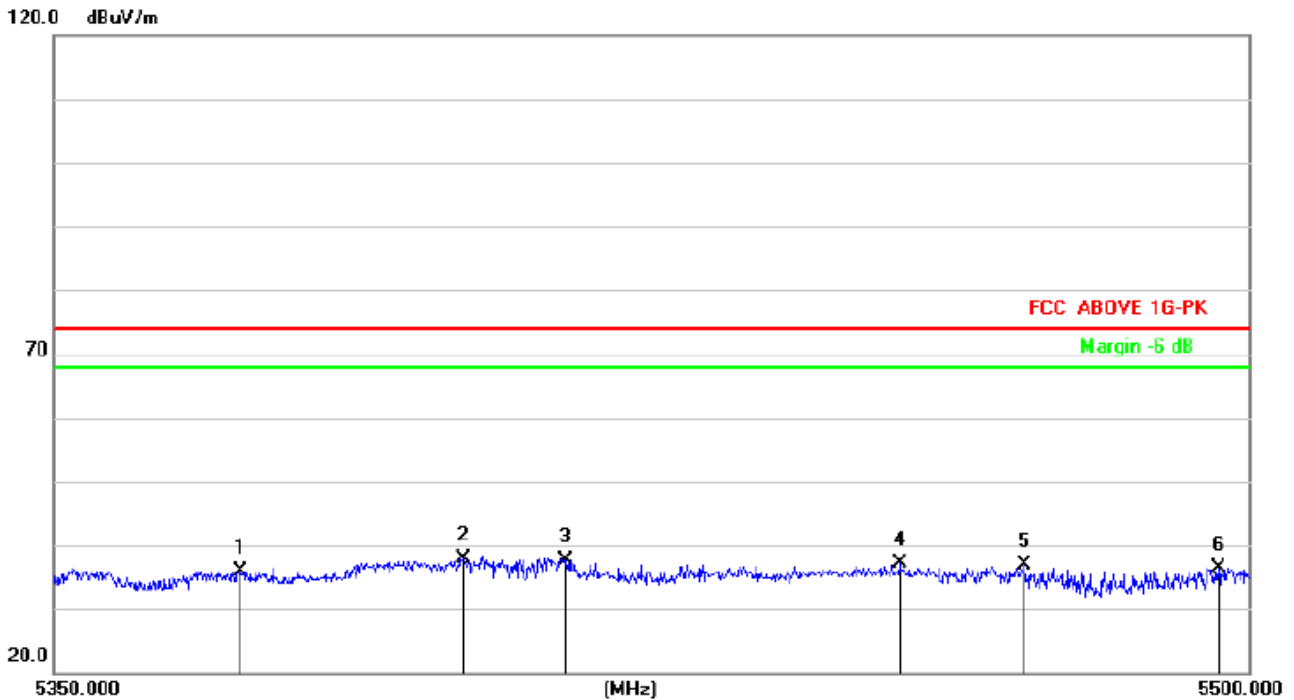
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4520.400	36.16	-0.64	35.52	74.00	-38.48			peak
2		4629.000	34.19	-0.56	33.63	74.00	-40.37			peak
3		4735.200	35.67	-0.48	35.19	74.00	-38.81			peak
4	*	4874.400	38.08	-0.38	37.70	74.00	-36.30			peak
5		4950.000	37.60	-0.33	37.27	74.00	-36.73			peak
6		5008.800	37.01	-0.25	36.76	74.00	-37.24			peak

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



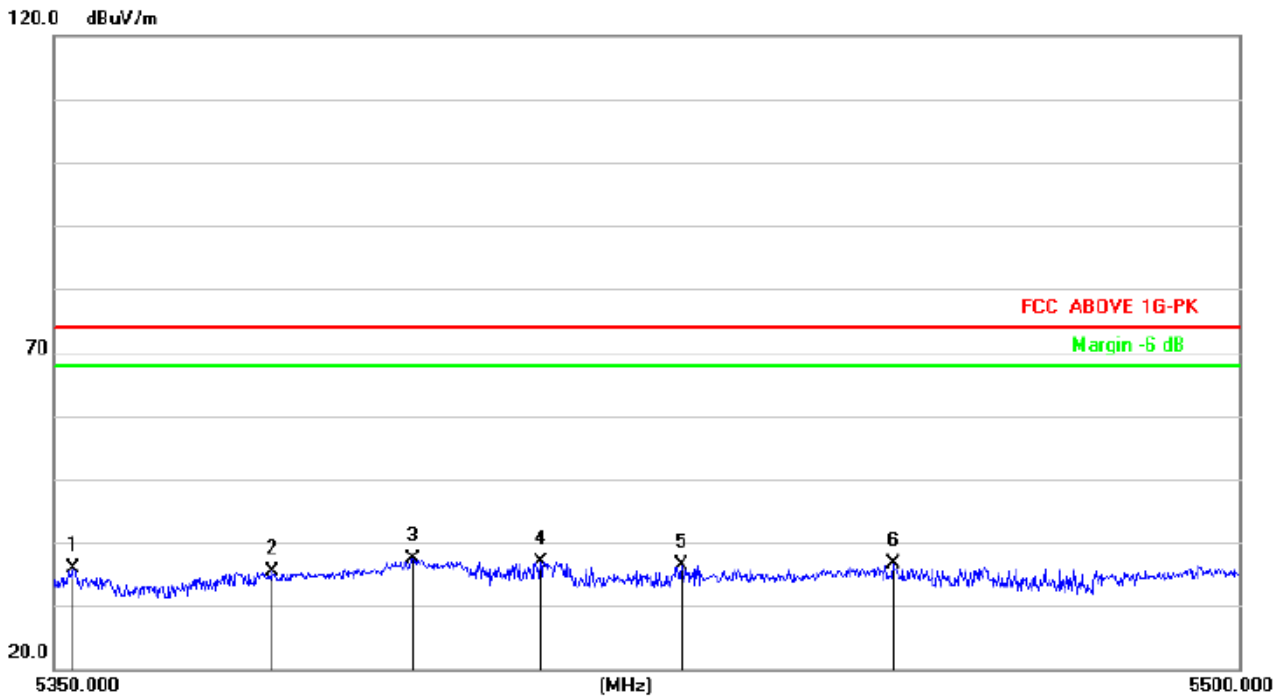
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		4526.400	36.58	-0.63	35.95	74.00	-38.05			peak
2		4710.000	36.00	-0.50	35.50	74.00	-38.50			peak
3		4832.400	36.39	-0.41	35.98	74.00	-38.02			peak
4		4906.200	36.50	-0.36	36.14	74.00	-37.86			peak
5		4969.200	36.78	-0.31	36.47	74.00	-37.53			peak
6	*	5008.800	37.01	-0.25	36.76	74.00	-37.24			peak

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		5373.250	34.57	1.30	35.87	74.00	-38.13			peak
2	*	5401.000	36.50	1.41	37.91	74.00	-36.09			peak
3		5413.900	36.27	1.47	37.74	74.00	-36.26			peak
4		5455.900	35.36	1.65	37.01	74.00	-36.99			peak
5		5471.650	35.24	1.71	36.95	74.00	-37.05			peak
6		5496.250	34.67	1.82	36.49	74.00	-37.51			peak

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



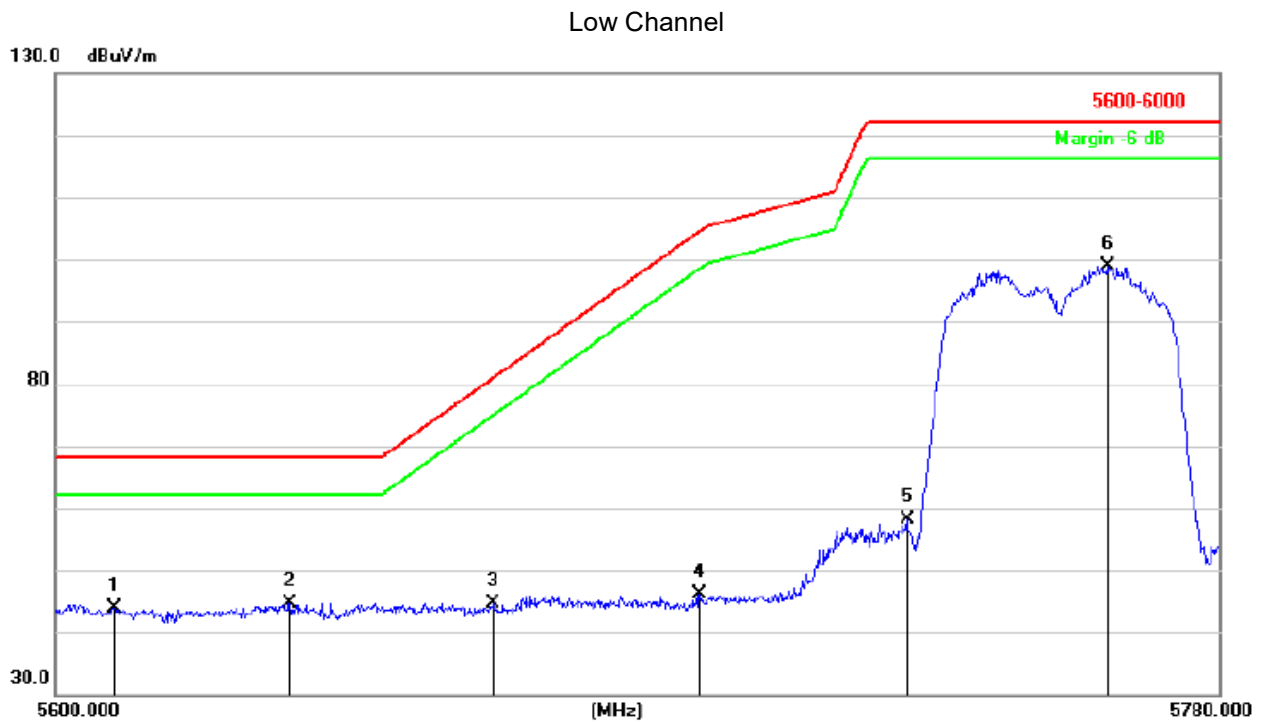
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		5352.550	34.70	1.21	35.91	74.00	-38.09			peak
2		5377.300	34.02	1.31	35.33	74.00	-38.67			peak
3	*	5395.150	36.05	1.39	37.44	74.00	-36.56			peak
4		5411.200	35.51	1.46	36.97	74.00	-37.03			peak
5		5429.050	34.95	1.53	36.48	74.00	-37.52			peak
6		5455.900	34.86	1.65	36.51	74.00	-37.49			peak

Note:

1. This EUT was tested in 802.11a/n(HT20), n(HT40), ac20, ac40, AC80 mode and 802.11HT40worst case position data was reported.

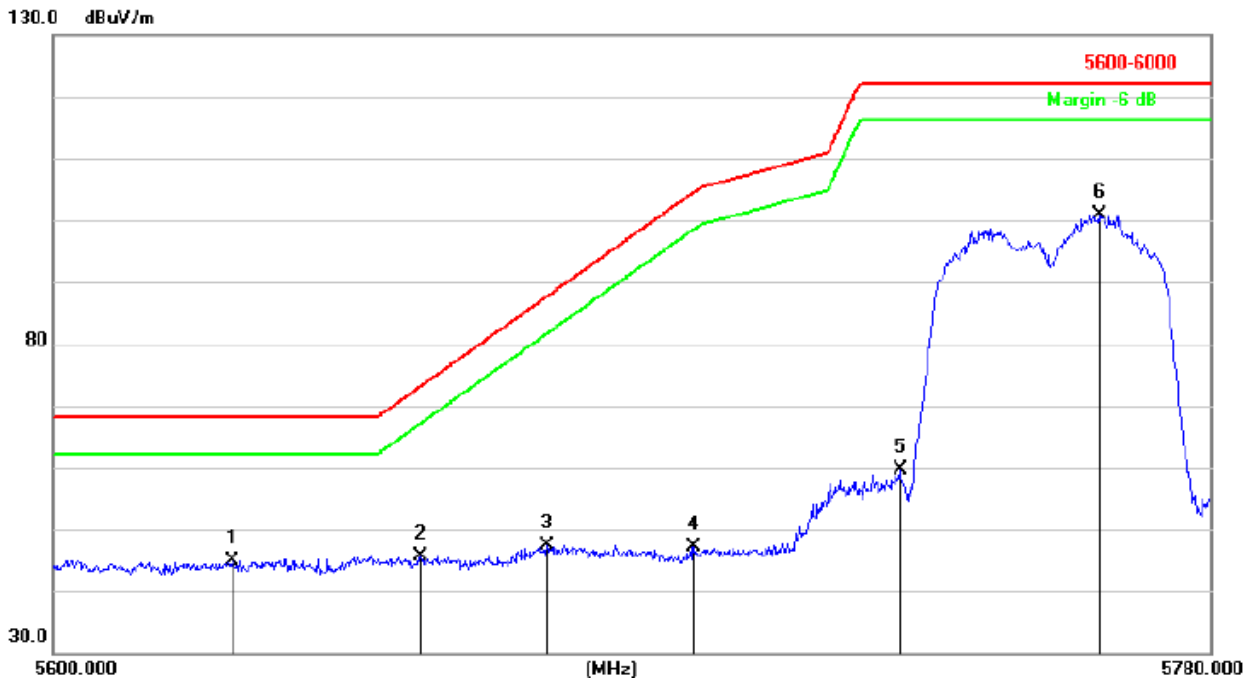
For the frequency band 5755-5795MHz

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



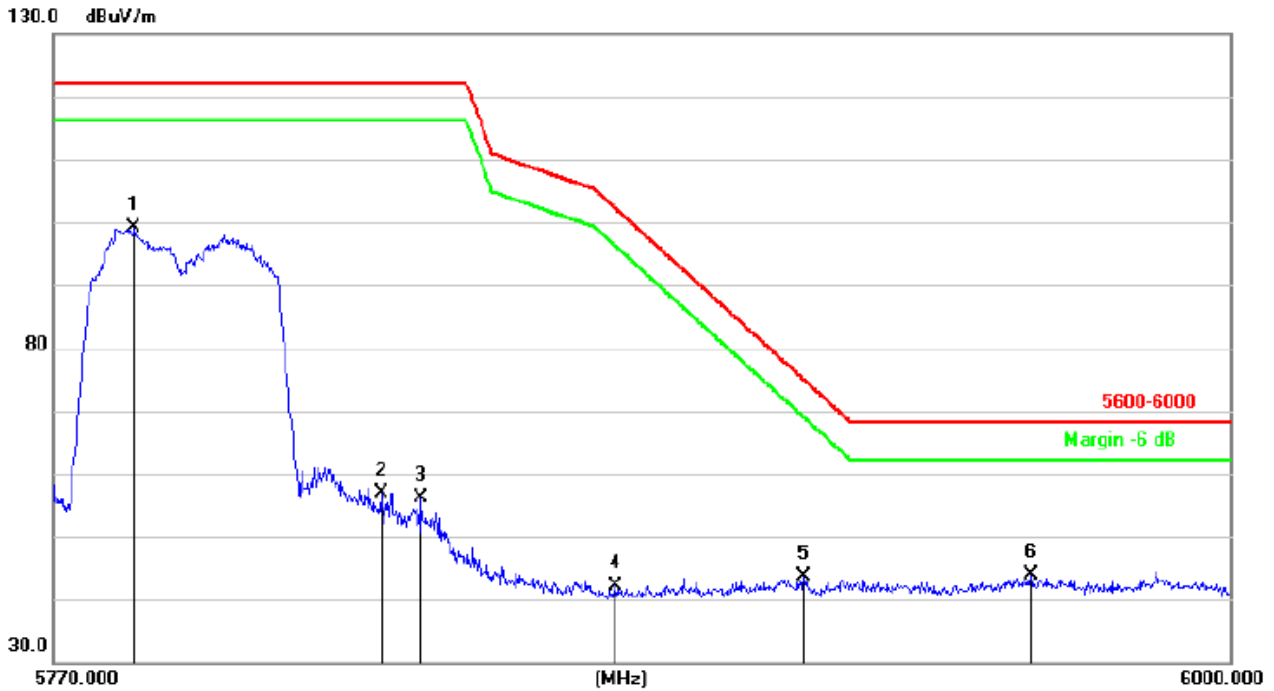
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		5609.180	41.65	2.30	43.95	68.20	-24.25			peak
2		5636.000	42.32	2.41	44.73	68.20	-23.47			peak
3		5667.320	42.09	2.55	44.64	81.05	-36.41			peak
4		5699.180	43.41	2.68	46.09	104.6	-58.51			peak
5		5731.220	55.39	2.82	58.21	122.2	-63.99			peak
6	*	5762.540	95.97	2.95	98.92	122.2	-23.28			peak

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



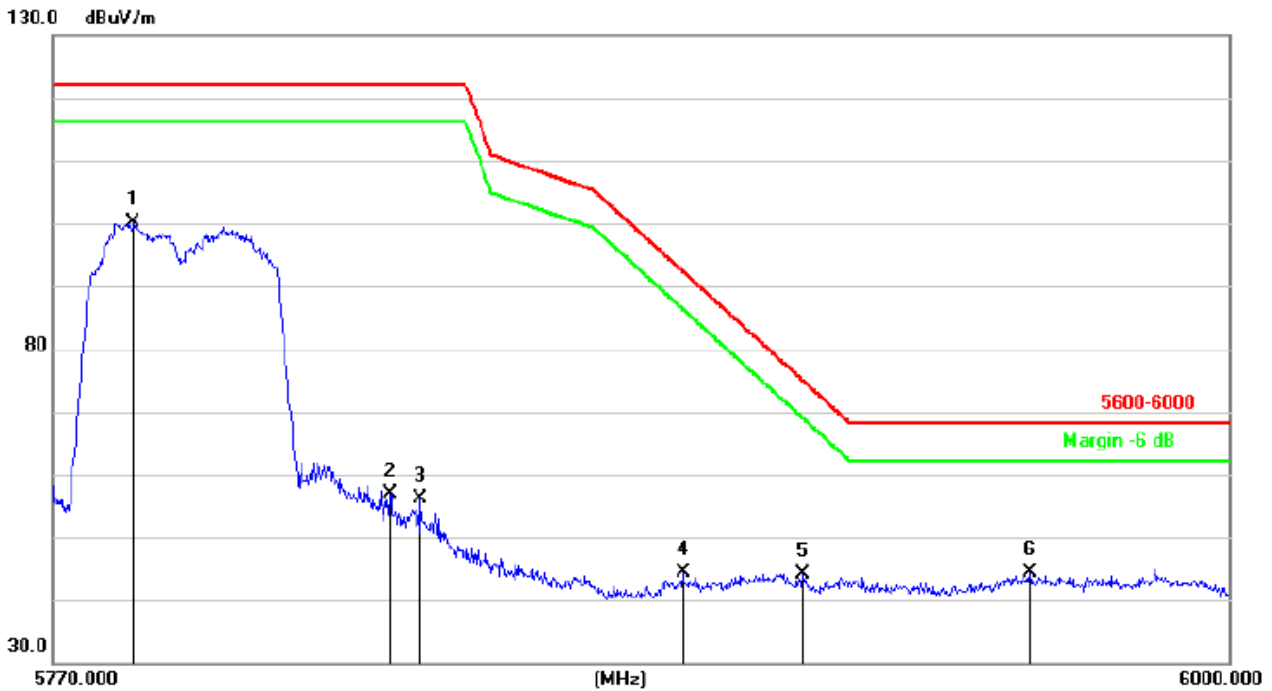
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		5627.540	42.55	2.38	44.93	68.20	-23.27	peak			
2		5656.700	43.12	2.50	45.62	73.18	-27.56	peak			
3		5676.320	44.90	2.58	47.48	87.72	-40.24	peak			
4		5699.180	44.41	2.68	47.09	104.6	-57.51	peak			
5		5731.220	56.89	2.82	59.71	122.2	-62.49	peak			
6	*	5762.540	97.97	2.95	100.92	122.2	-21.28	peak			

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1	*	5785.640	96.17	3.05	99.22	122.2	-22.98			peak
2		5833.480	53.59	3.25	56.84	122.2	-65.36			peak
3		5841.070	52.96	3.28	56.24	122.2	-65.96			peak
4		5879.020	38.69	3.45	42.14	102.2	-60.07			peak
5		5915.820	40.04	3.60	43.64	74.97	-31.33			peak
6		5960.670	40.09	3.79	43.88	68.20	-24.32			peak

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101 kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	5785.640	97.17	3.05	100.22	122.2	-21.98	peak			
2		5835.320	53.57	3.26	56.83	122.2	-65.37	peak			
3		5841.070	52.96	3.28	56.24	122.2	-65.96	peak			
4		5892.360	40.80	3.50	44.30	92.32	-48.02	peak			
5		5915.820	40.54	3.60	44.14	74.97	-30.83	peak			
6		5960.670	40.59	3.79	44.38	68.20	-23.82	peak			

Note:

1. This EUT was tested in 802.11a/n/ac(HT20), n/ac(HT40), ac(HT80) mode and 802.11n(HT40) the worst case position data was reported.

8.SPURIOUS RF CONDUCTED EMISSIONS

8.1CONFORMANCE LIMIT

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following 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 e.i.r.p. of -27 dBm/MHz.

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

8.2MEASURING INSTRUMENTS

The Measuring equipment is listed in the section 6.3 of this test report.

8.3TEST SETUP

Please refer to Section 6.1 of this test report.

8.4TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

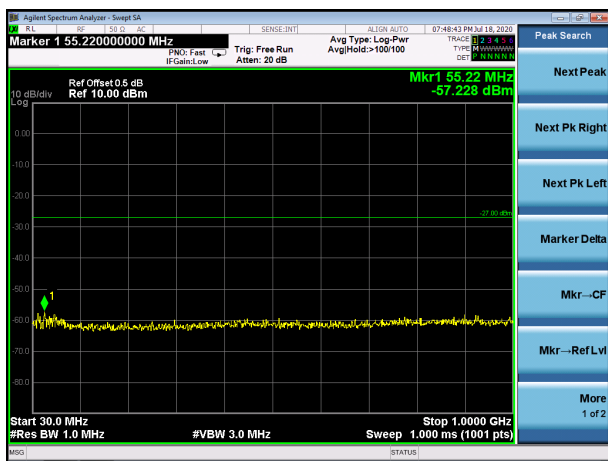
8.5TEST RESULTS

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

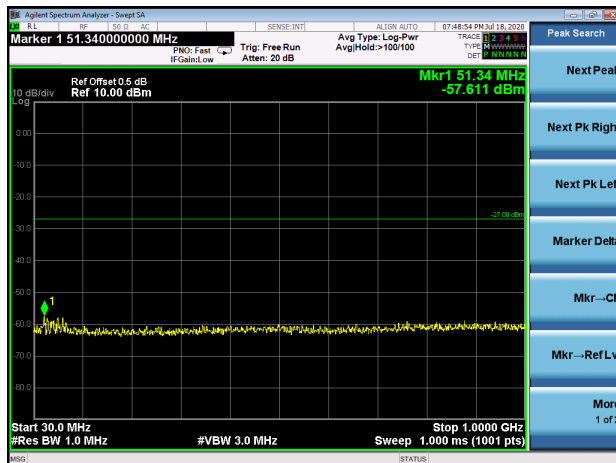
About:26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

5.1G
Test Plot

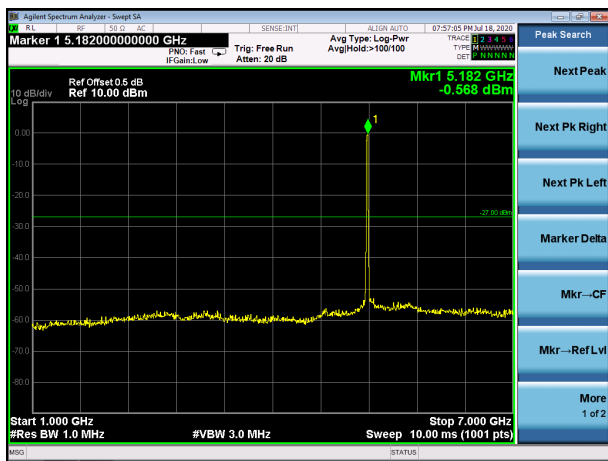
802.11a on channel 36



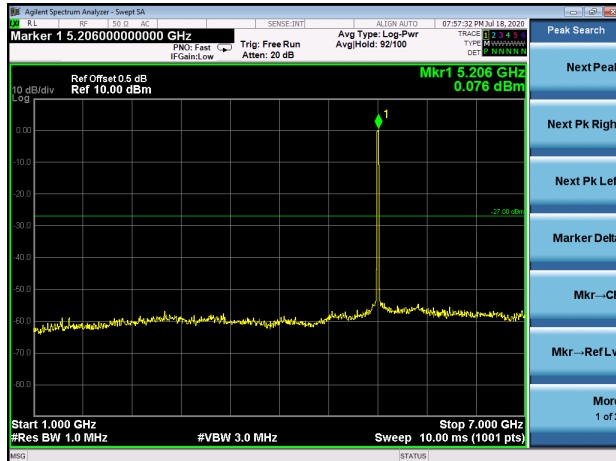
802.11a on channel 40



802.11a on channel 36



802.11a on channel 40



802.11a on channel 36

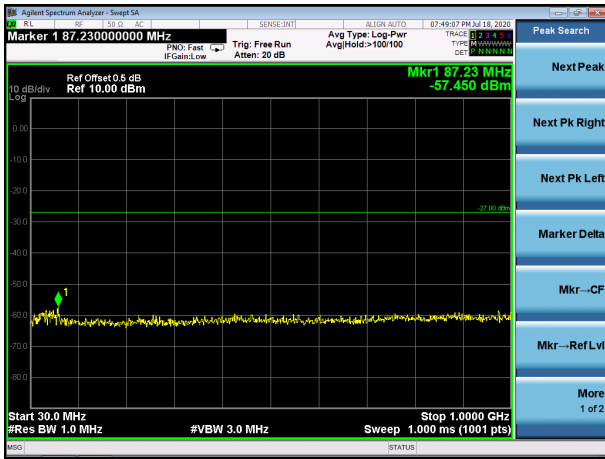


802.11a on channel 40

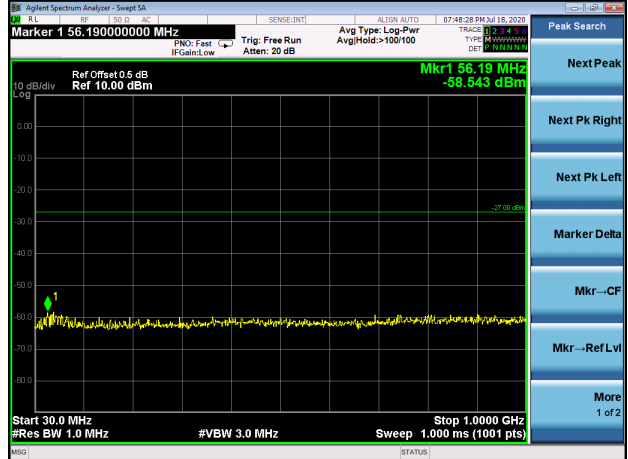


Test Plot

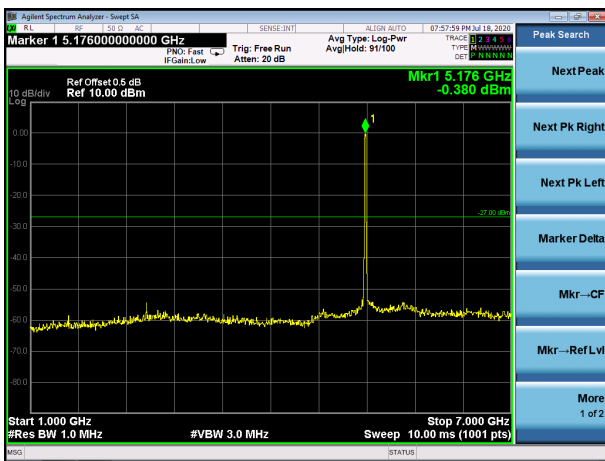
802.11a on channel 48



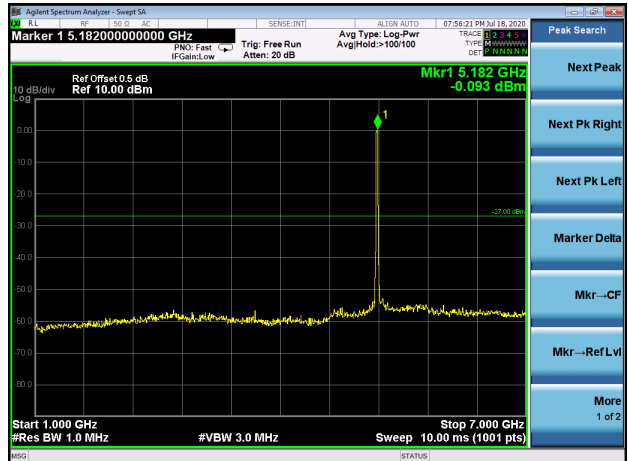
802.11n20 on channel 36



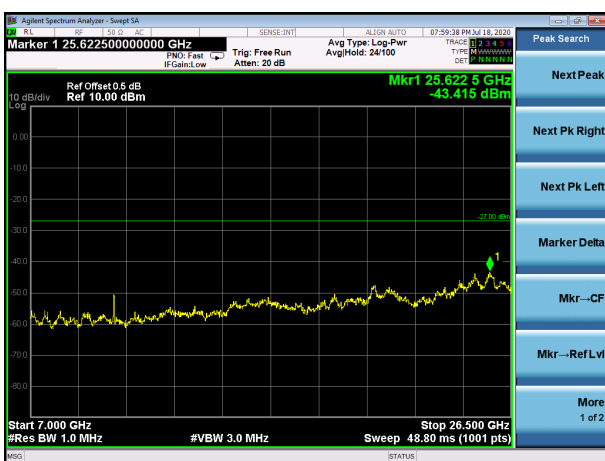
802.11a on channel 48



802.11n20 on channel 36



802.11a on channel 48

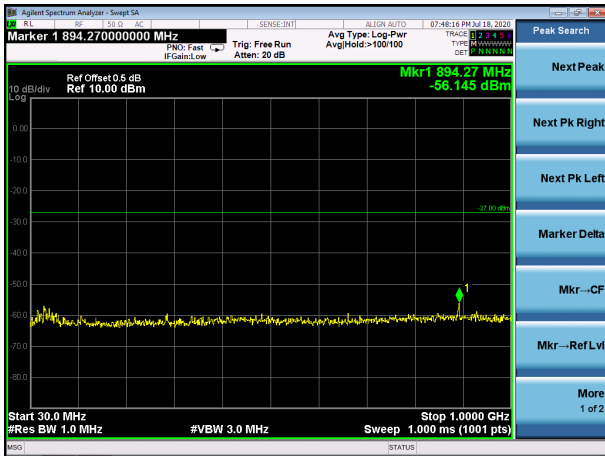


802.11n20 on channel 36

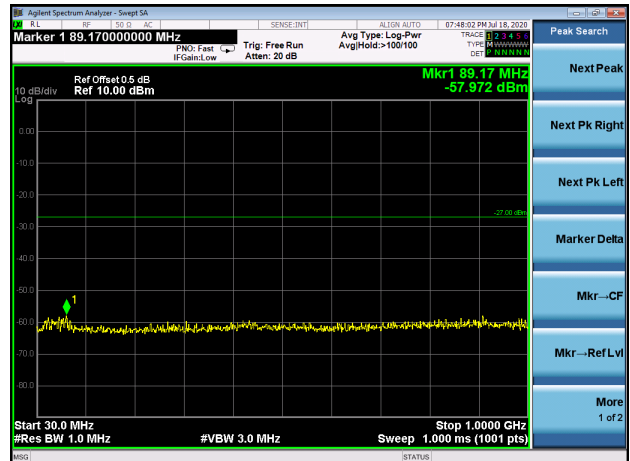


Test Plot

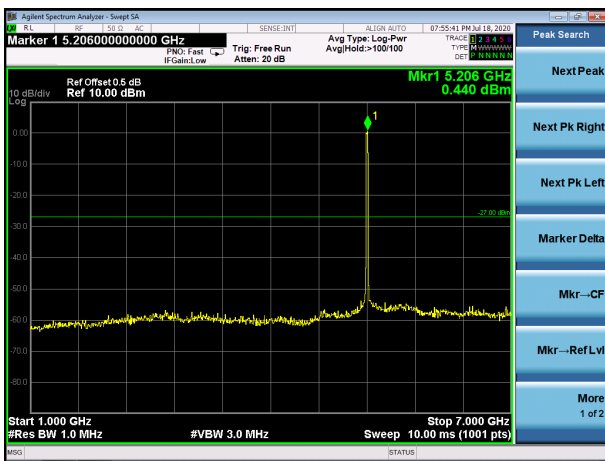
802.11n20 on channel 40



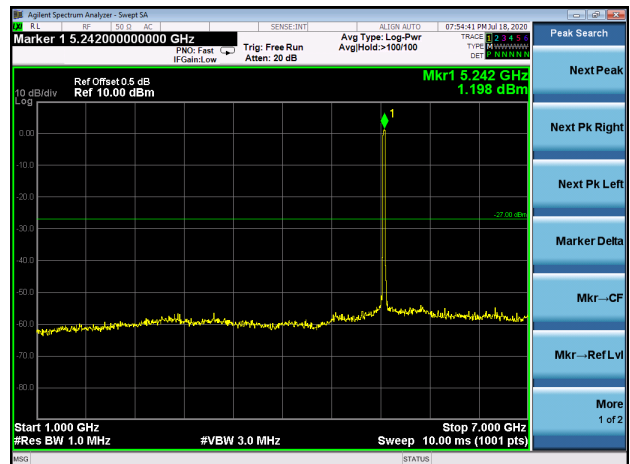
802.11n20 on channel 48



802.11n20 on channel 40



802.11n20 on channel 48



802.11n20 on channel 40

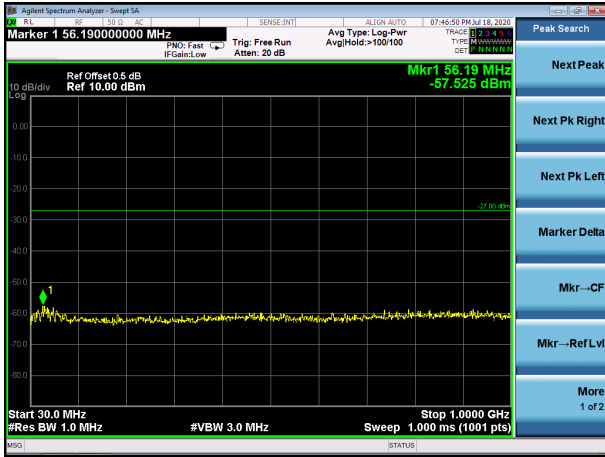


802.11n20 on channel 48

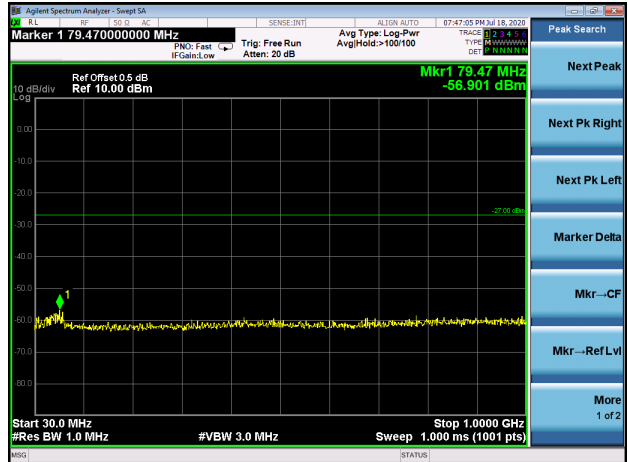


Test Plot

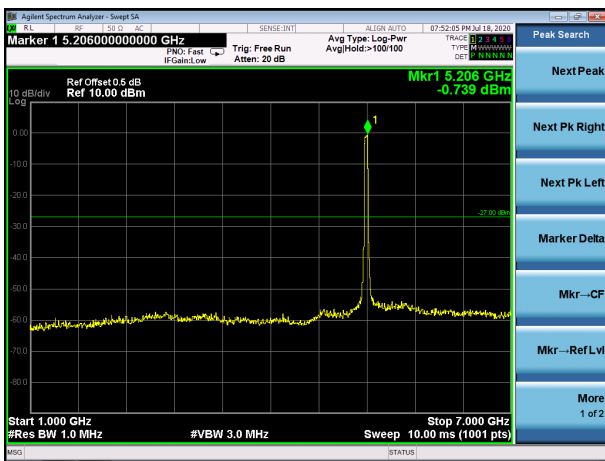
802.11n40 on channel 38



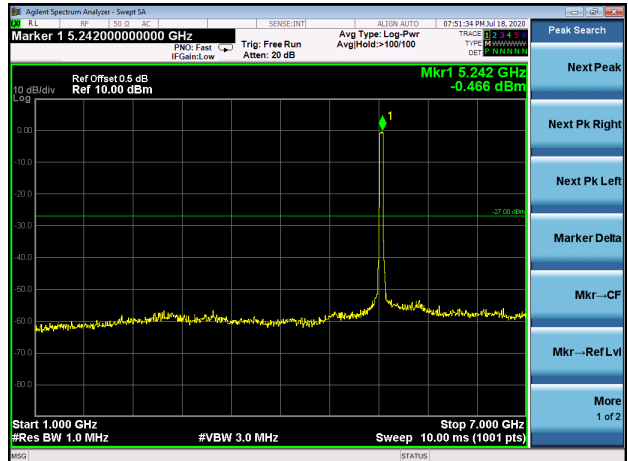
802.11n40 on channel 46



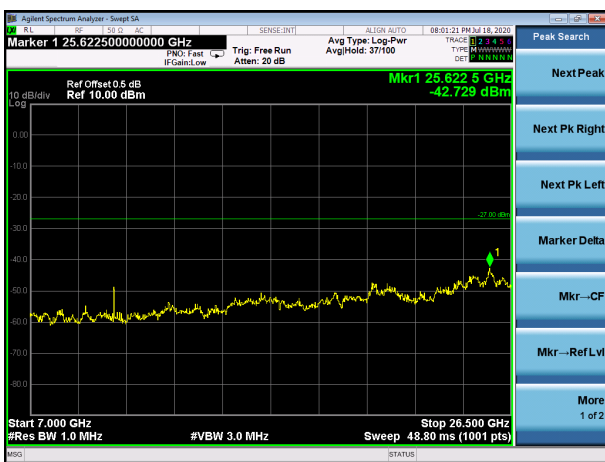
802.11n40 on channel 38



802.11n40 on channel 46



802.11n40 on channel 38

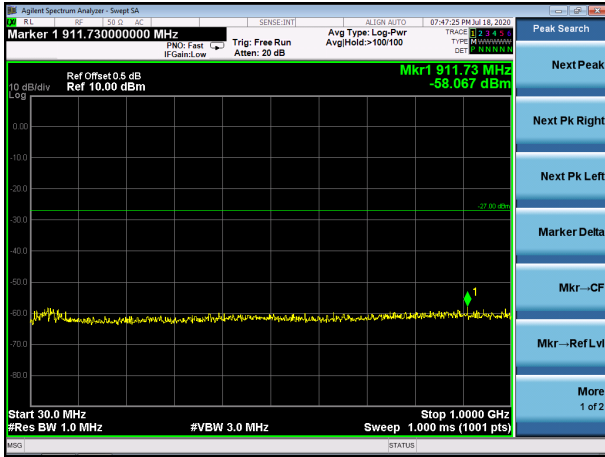


802.11n40 on channel 46

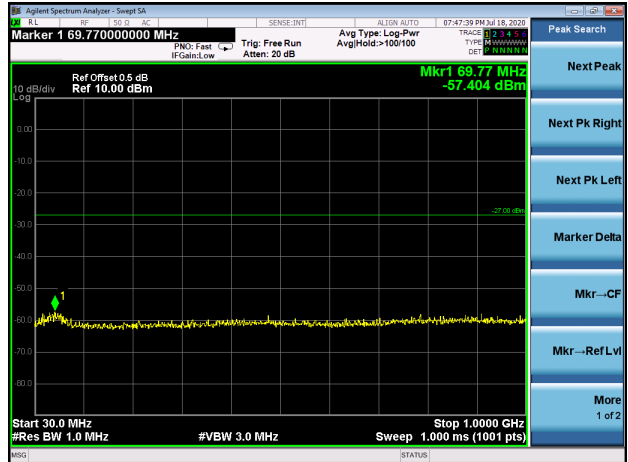


Test Plot

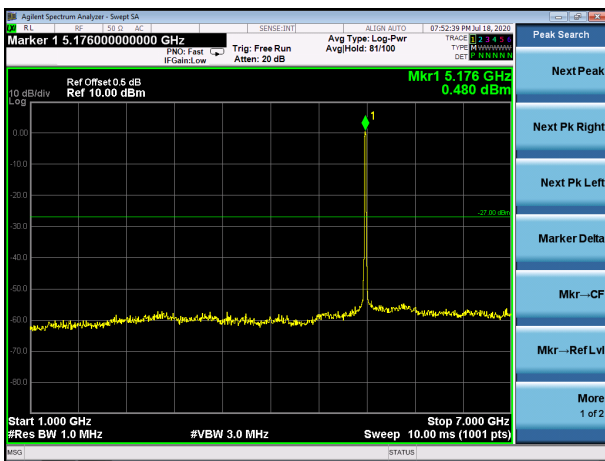
802.11ac20 on channel 36



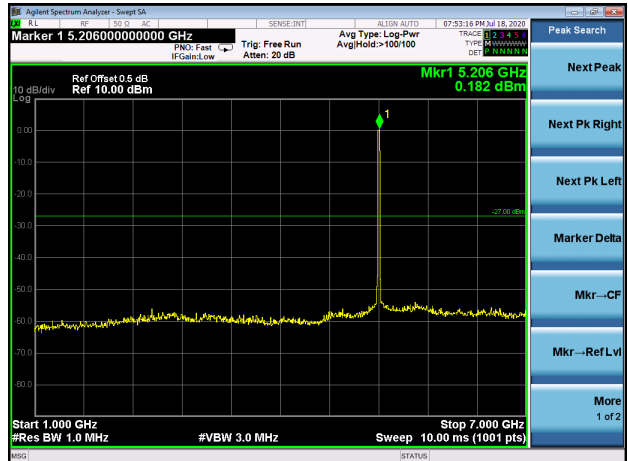
802.11ac20 on channel 40



802.11ac20 on channel 36



802.11ac20 on channel 40



802.11ac20 on channel 36



802.11ac20 on channel 40

