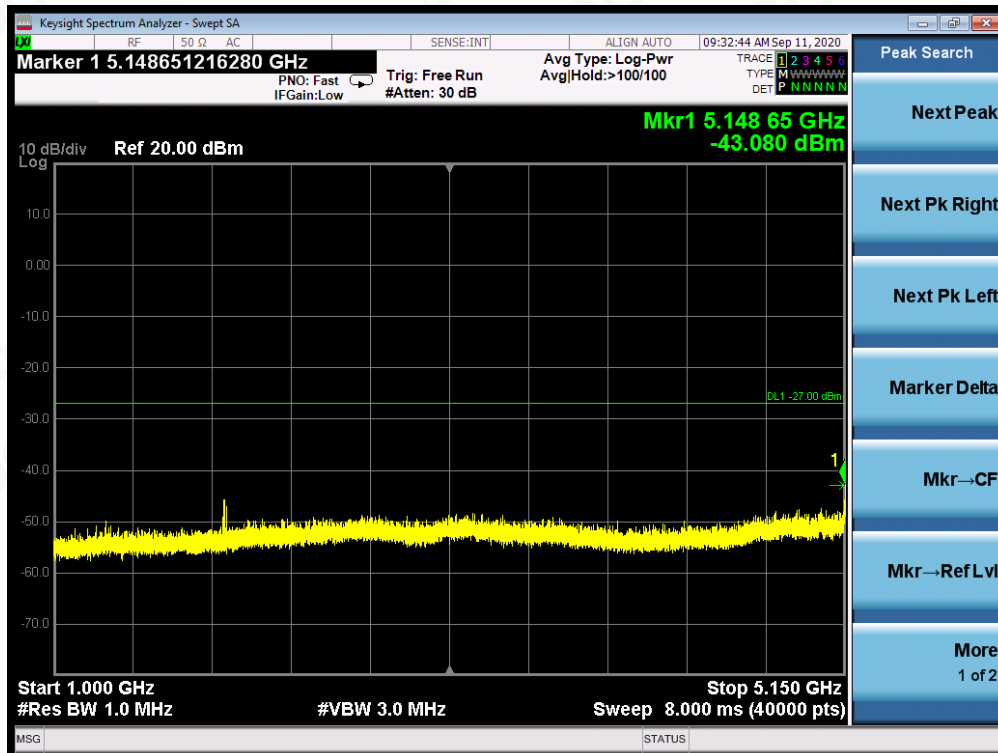
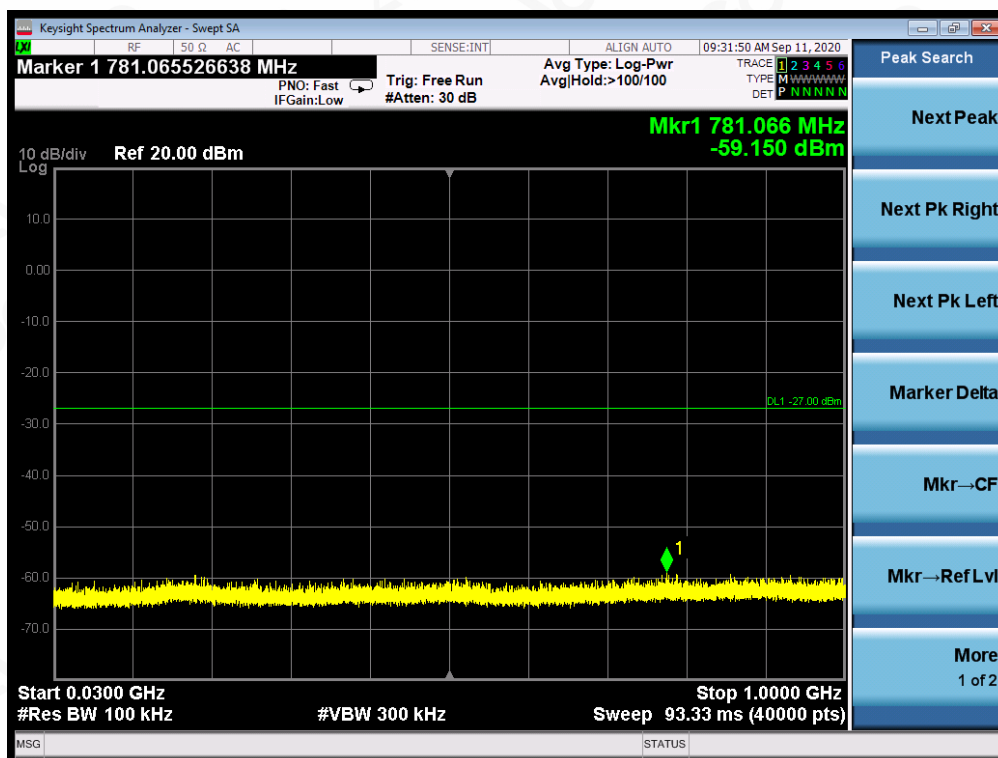


FOR 802.11A20 MODULATION

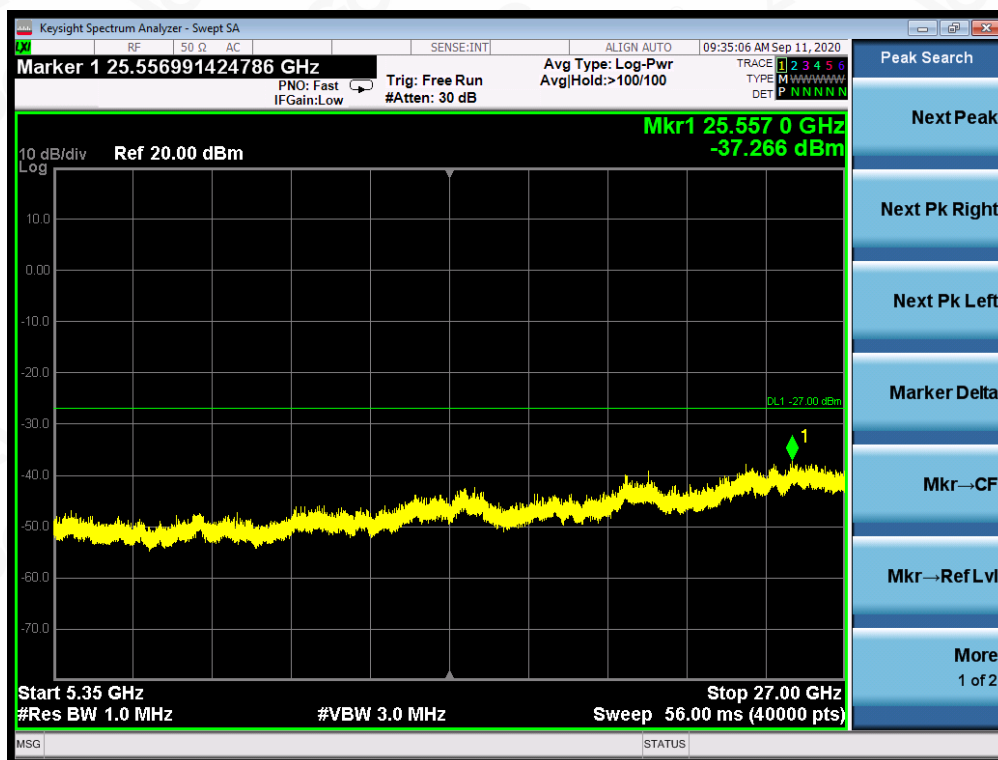
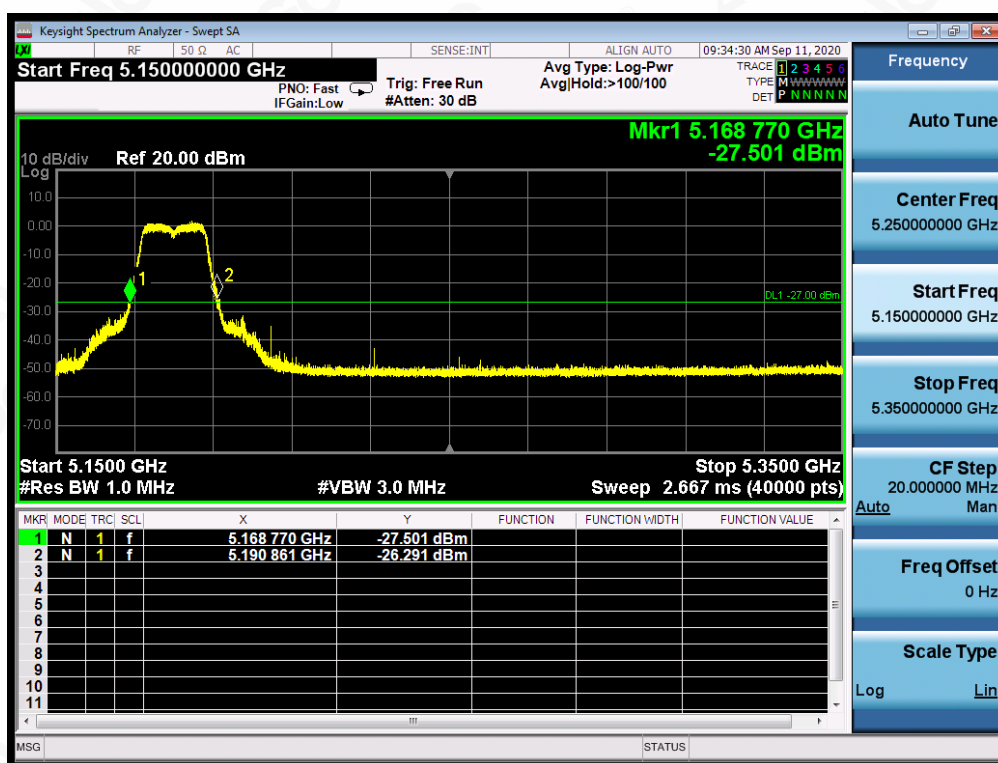
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz



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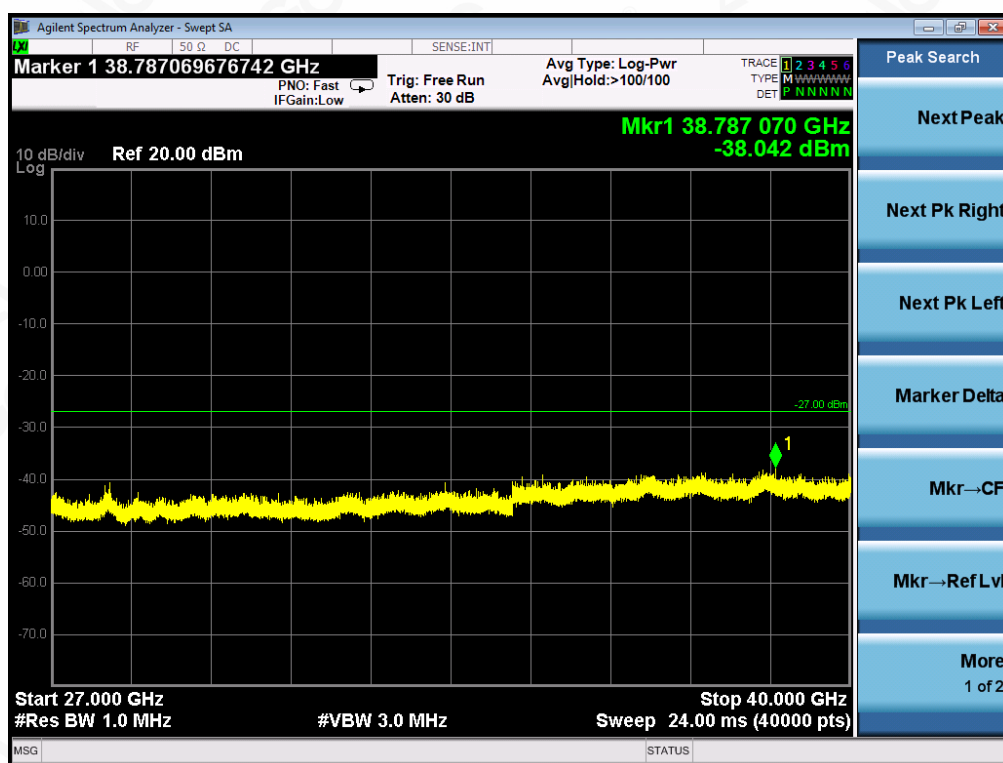




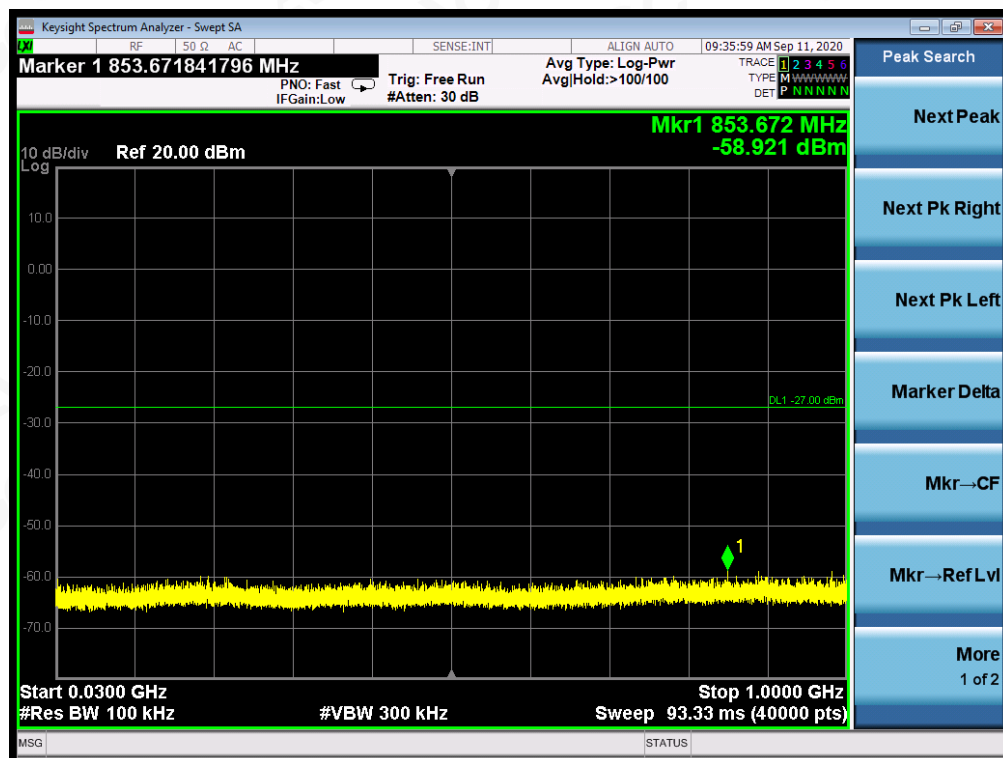
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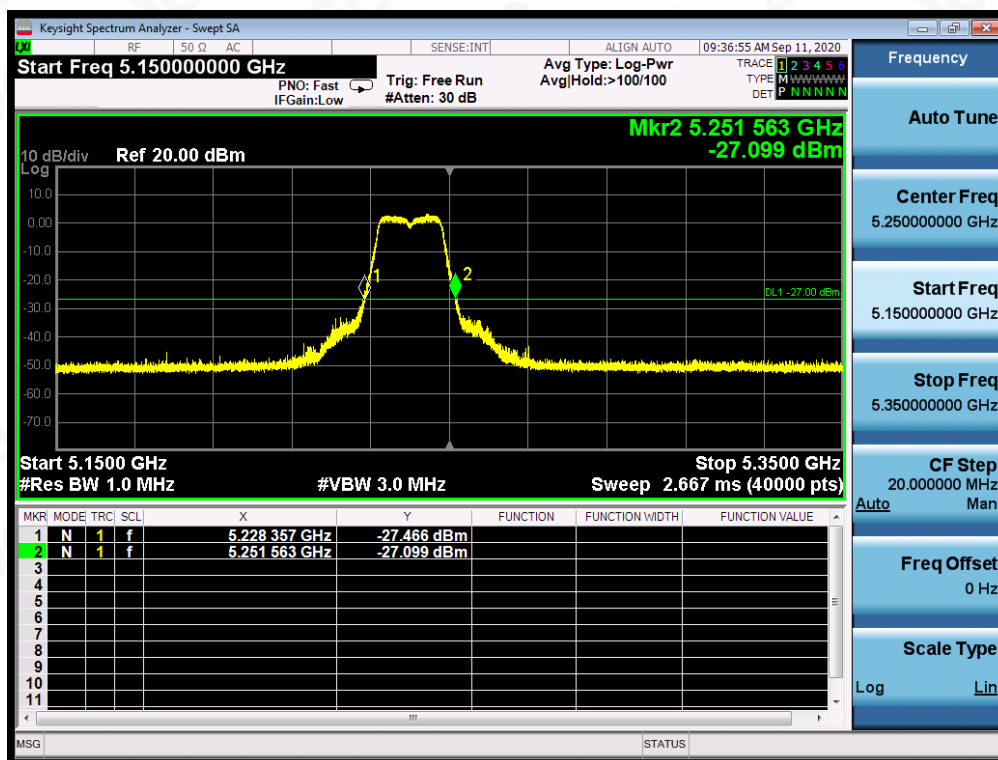
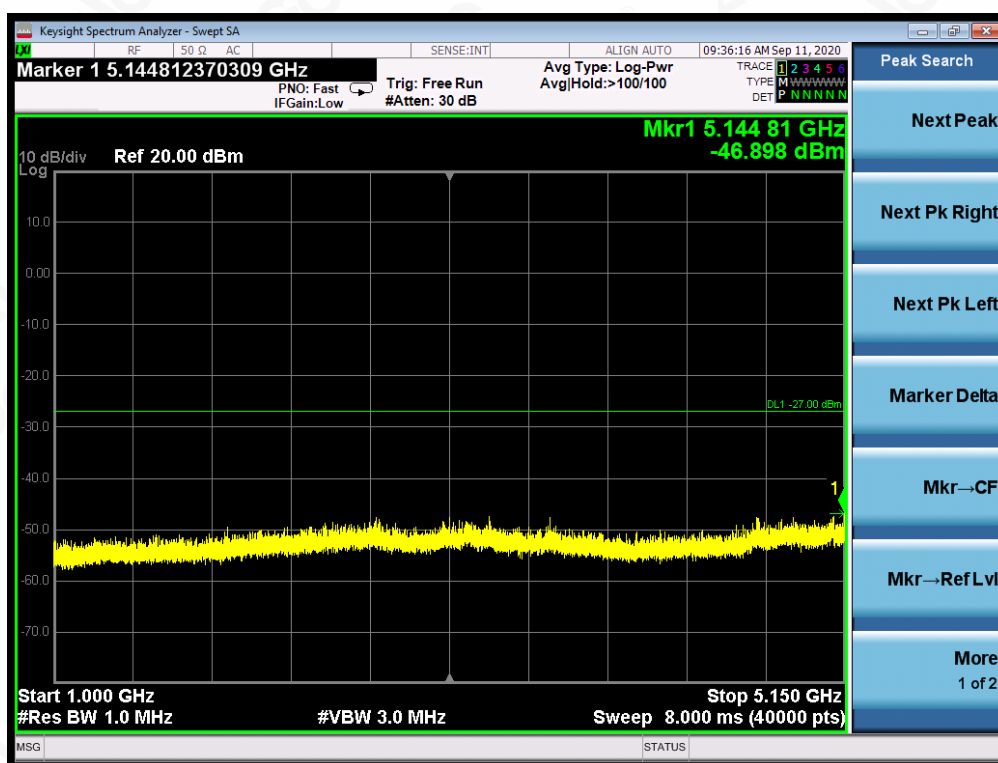
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz



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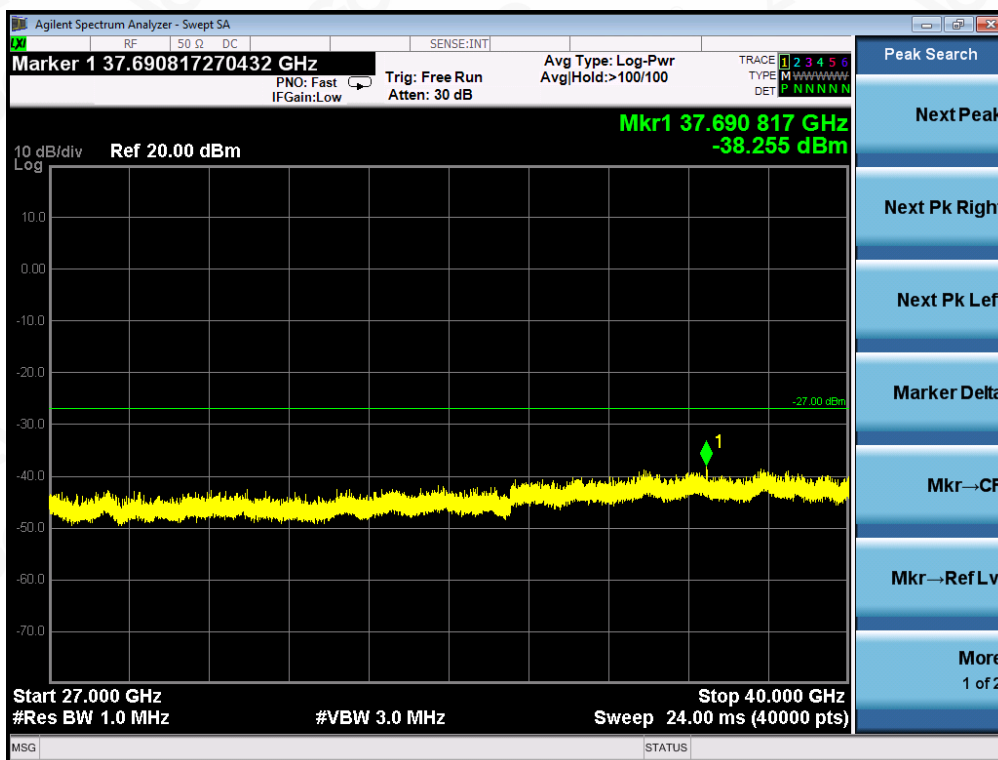
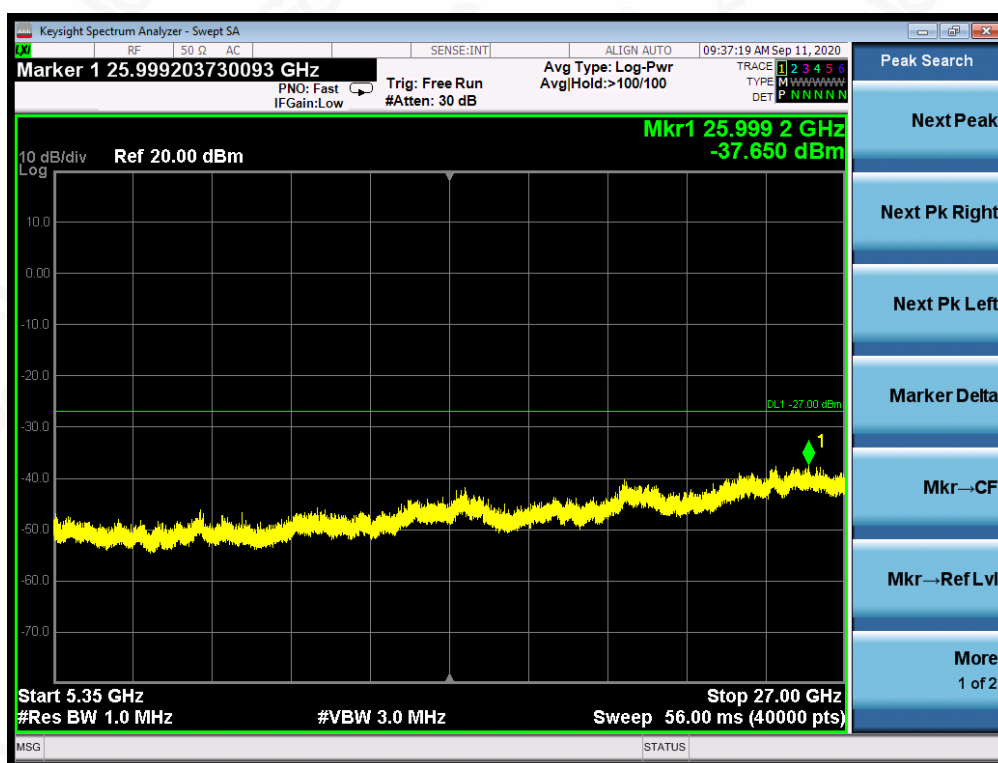




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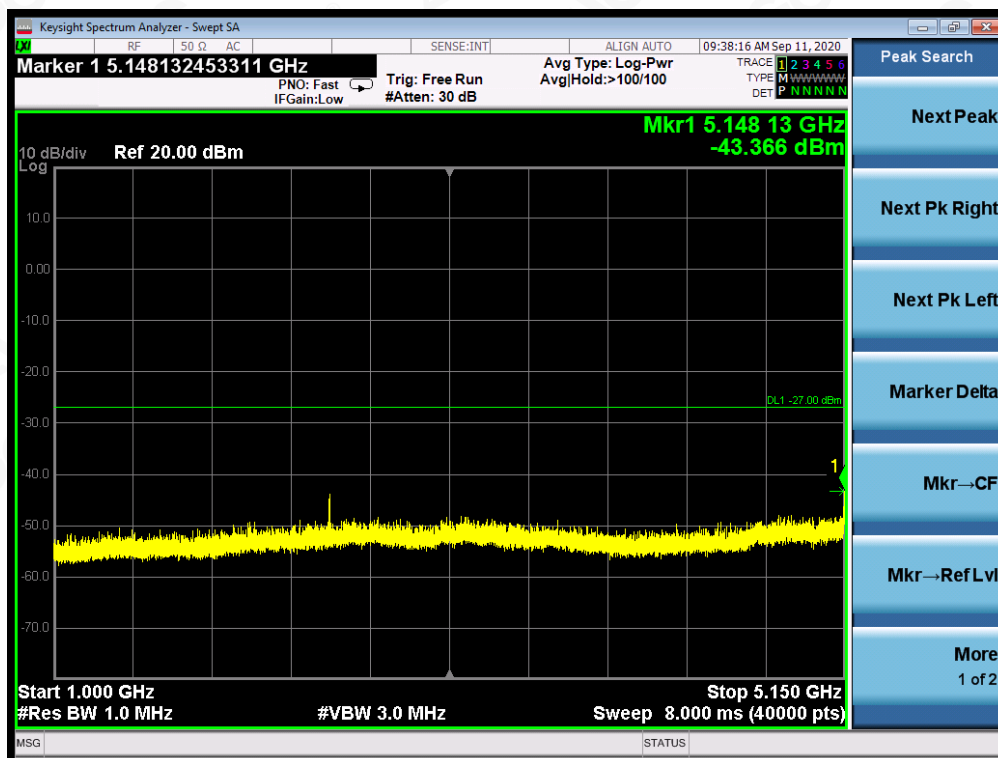
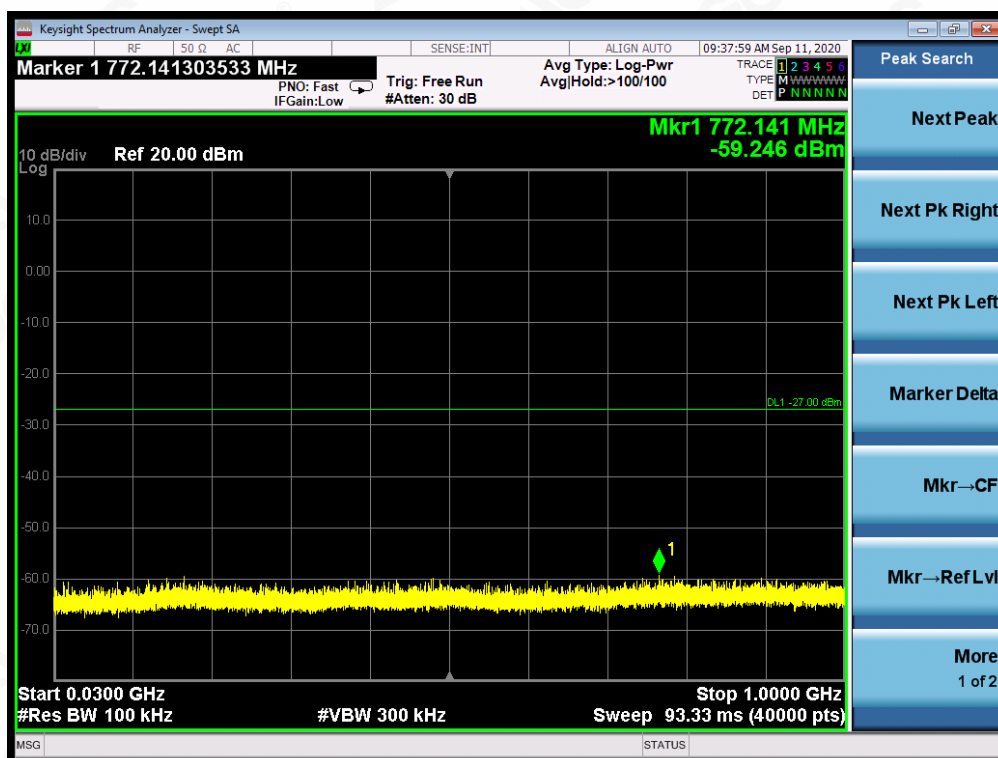


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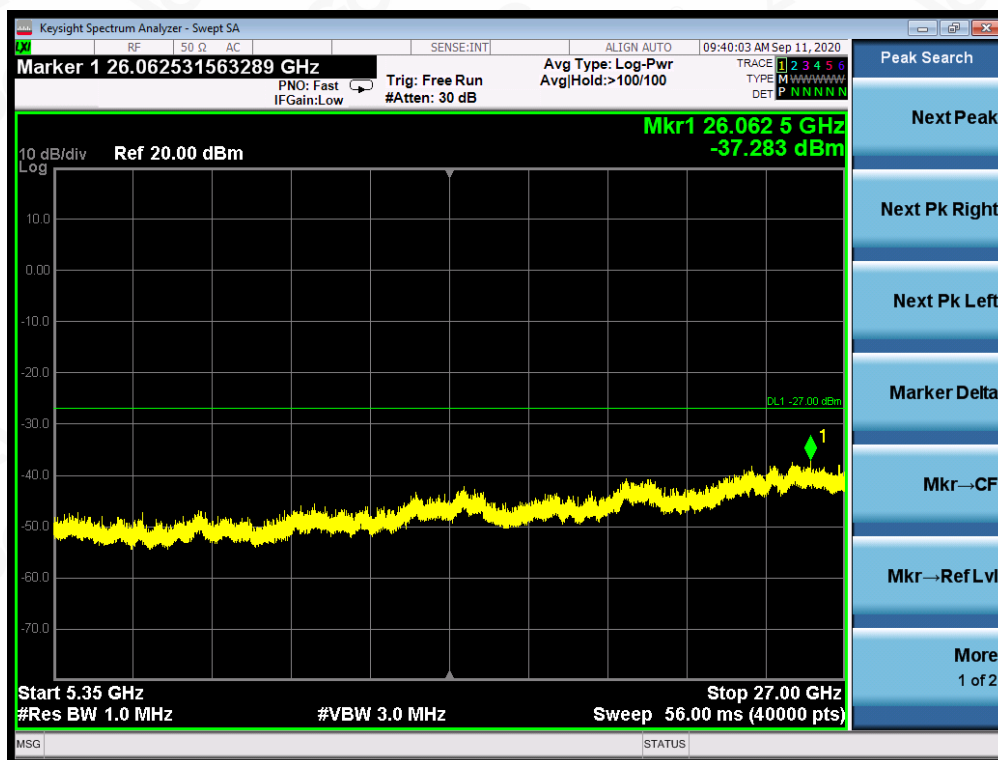
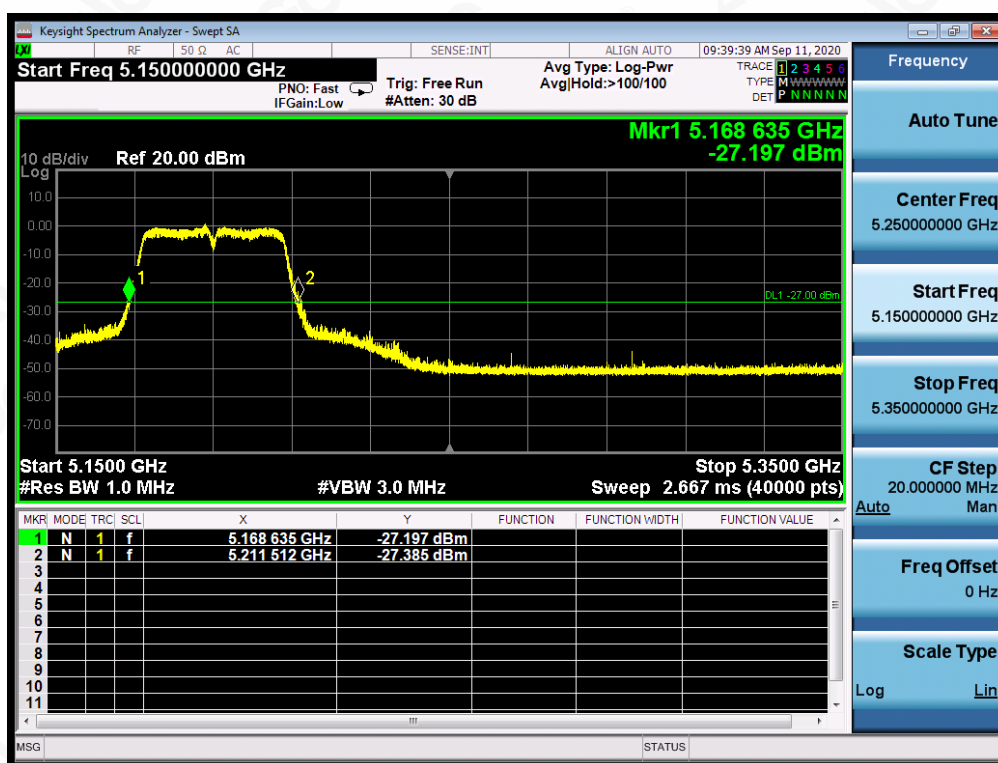
FOR 802.11N40 MODULATION TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz



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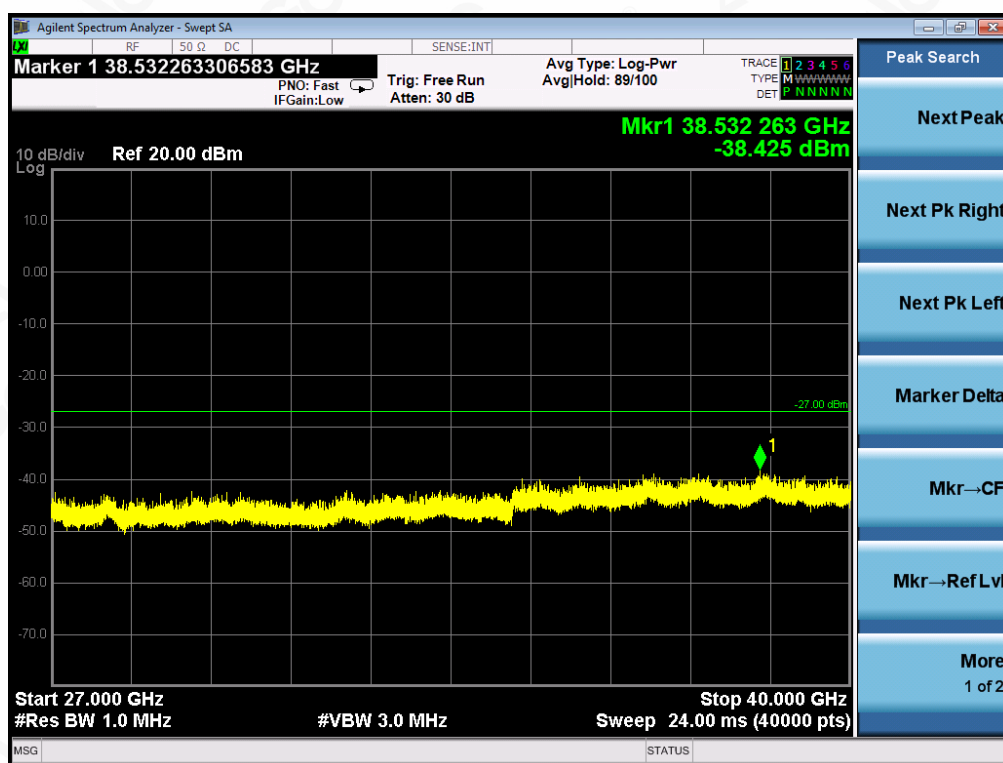




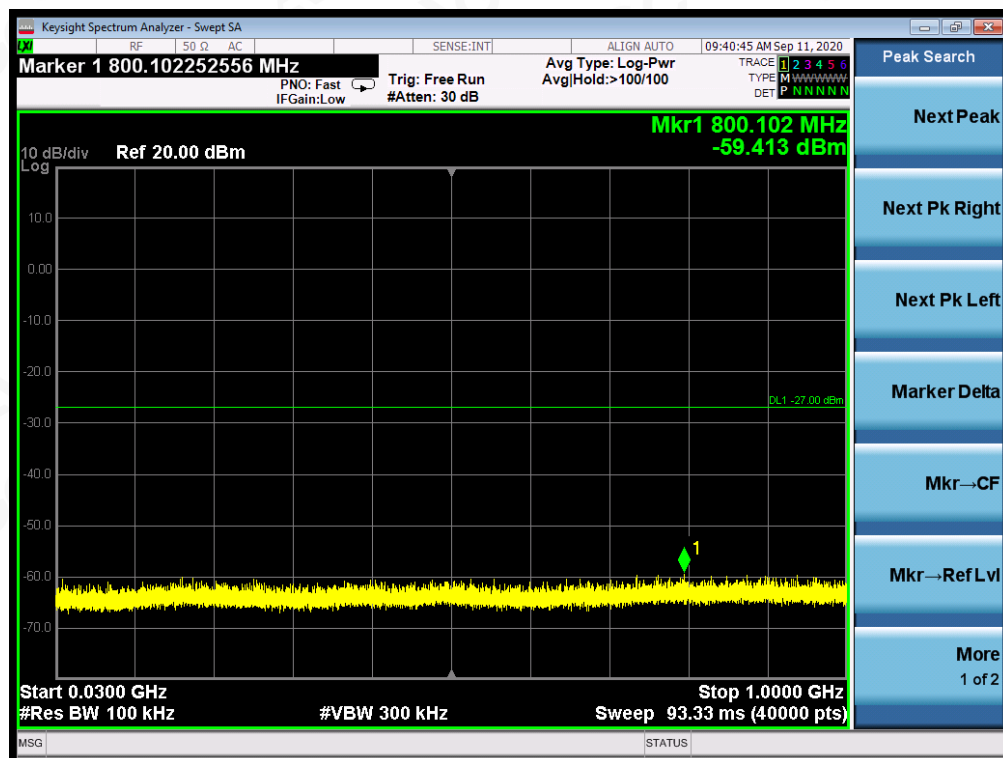
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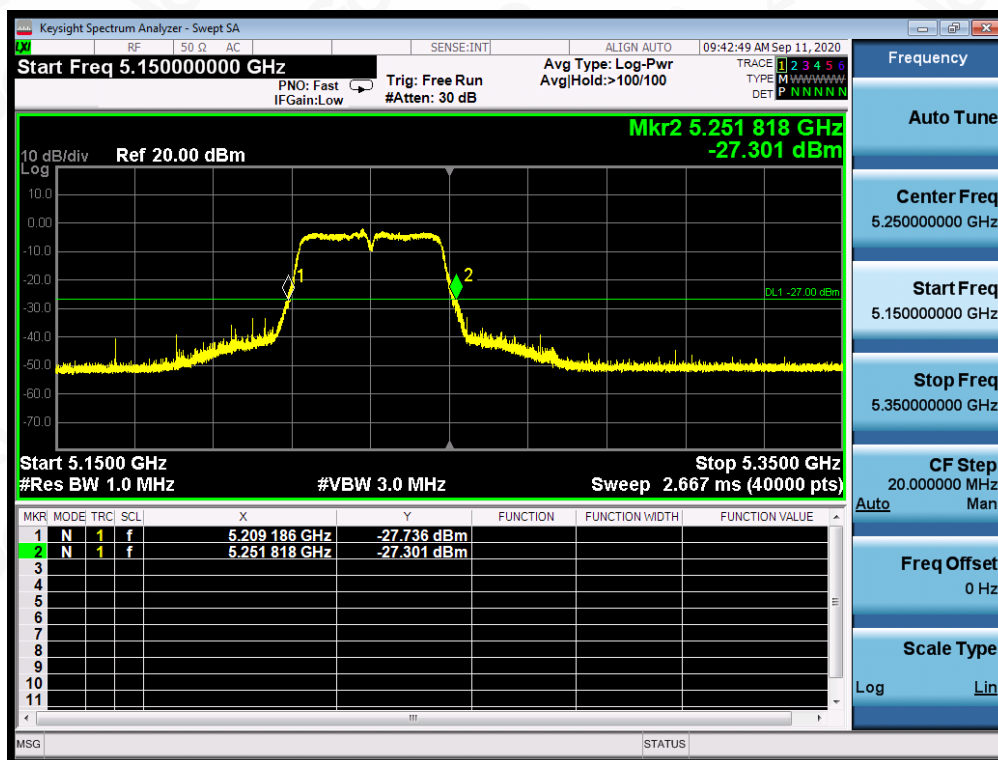
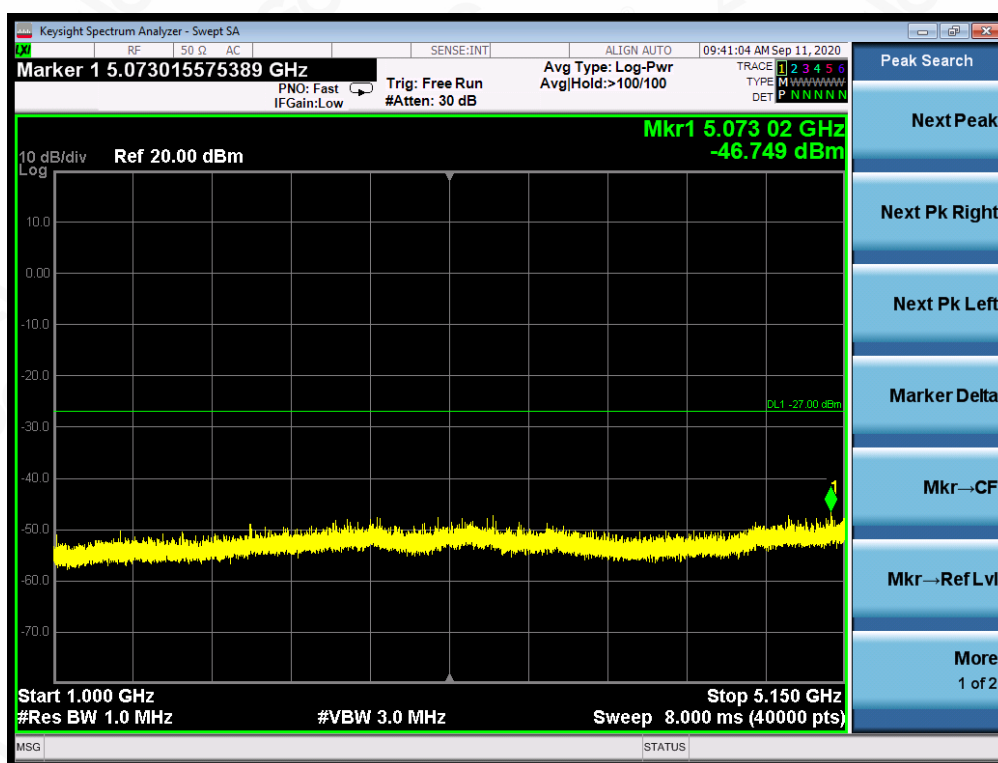
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz



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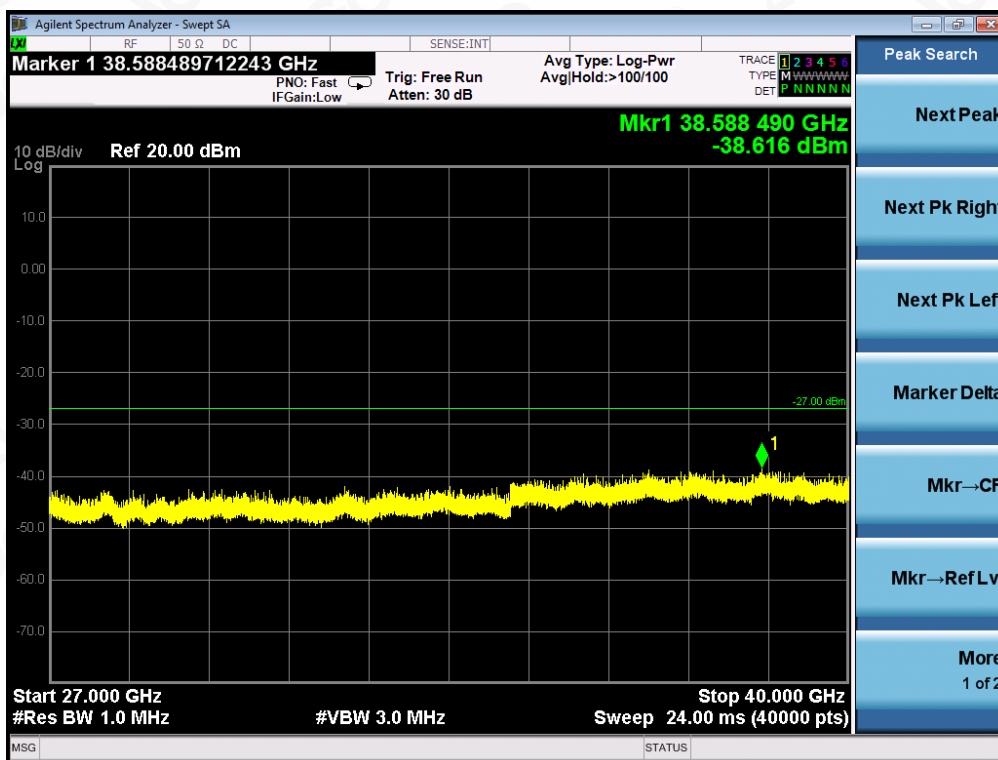
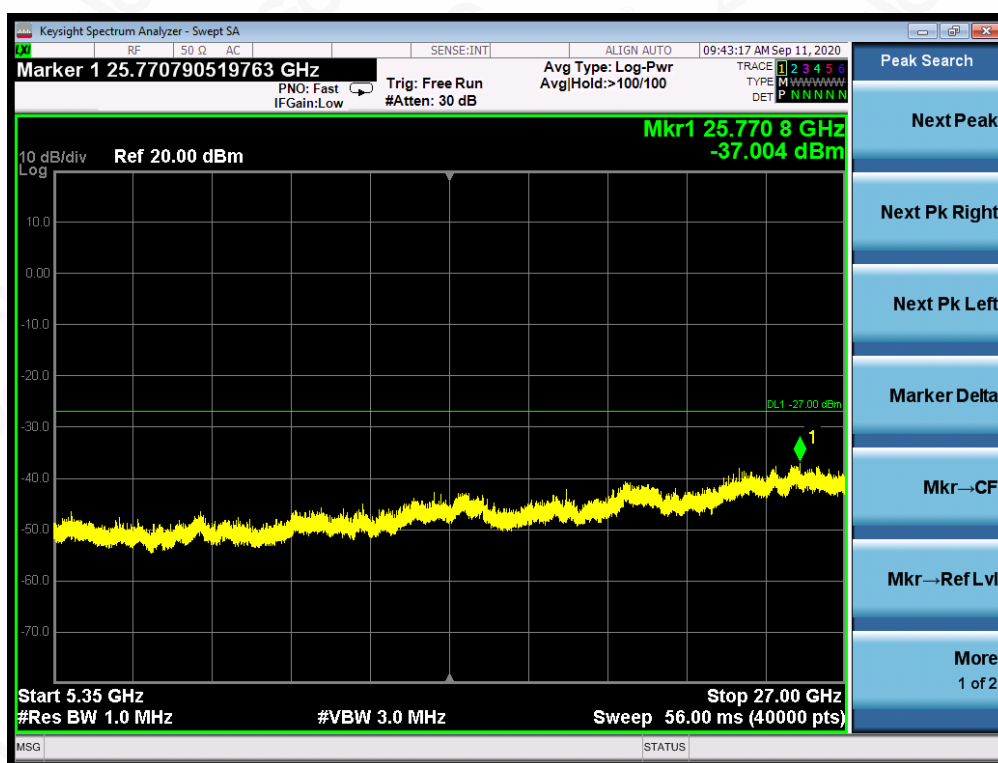




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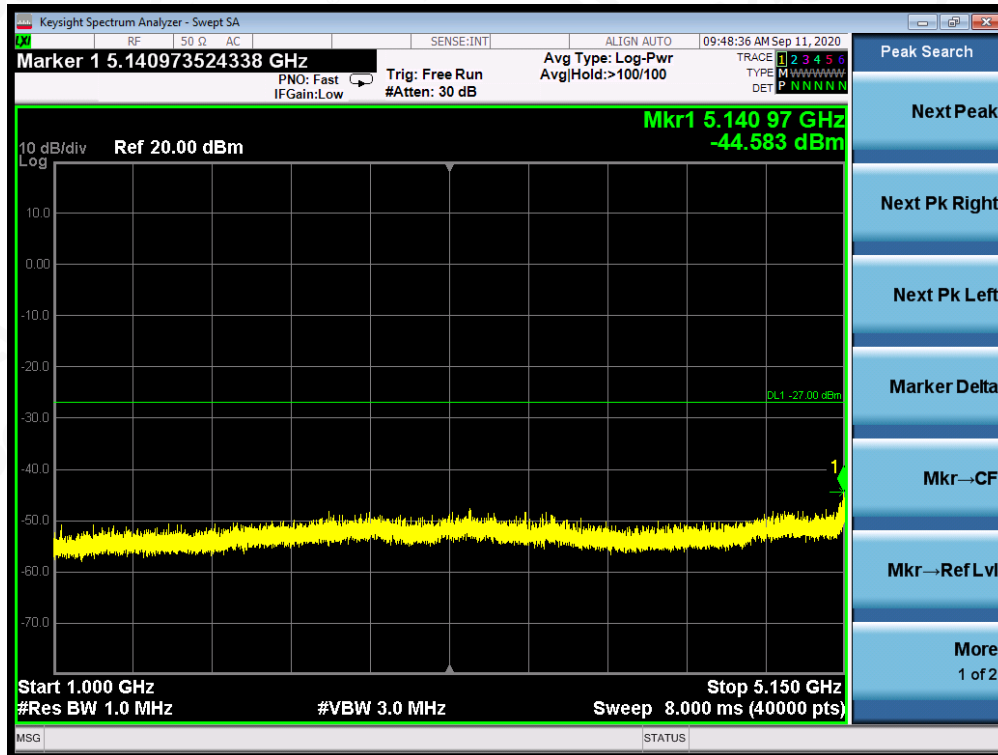
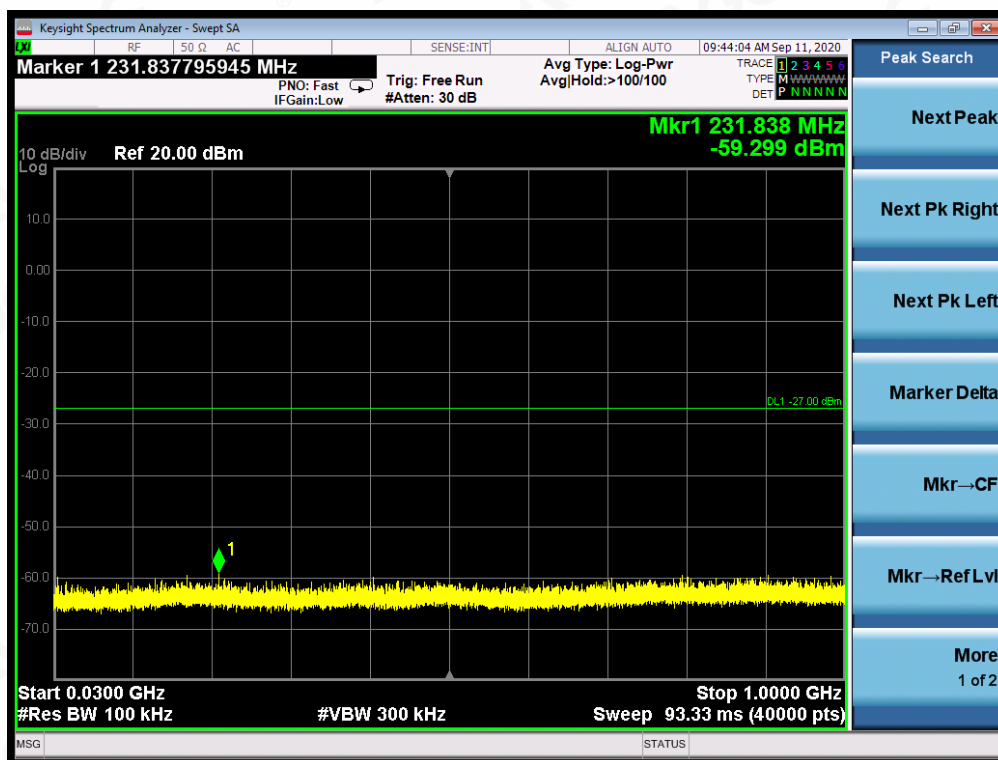
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FOR 802.11AC80 MODULATION

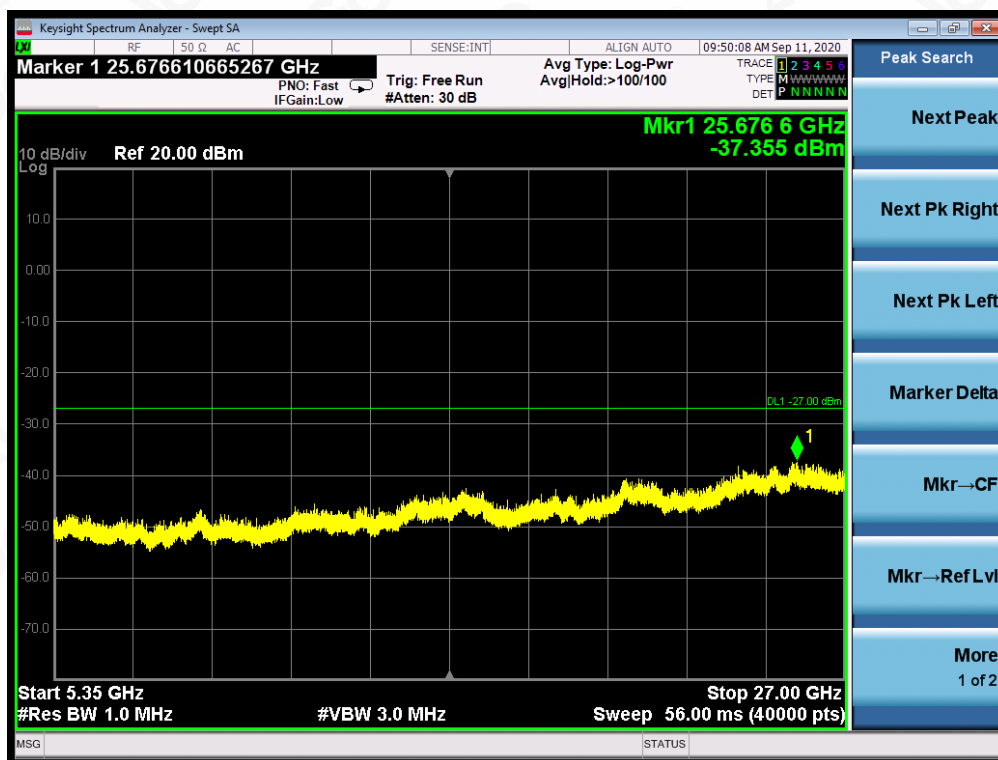
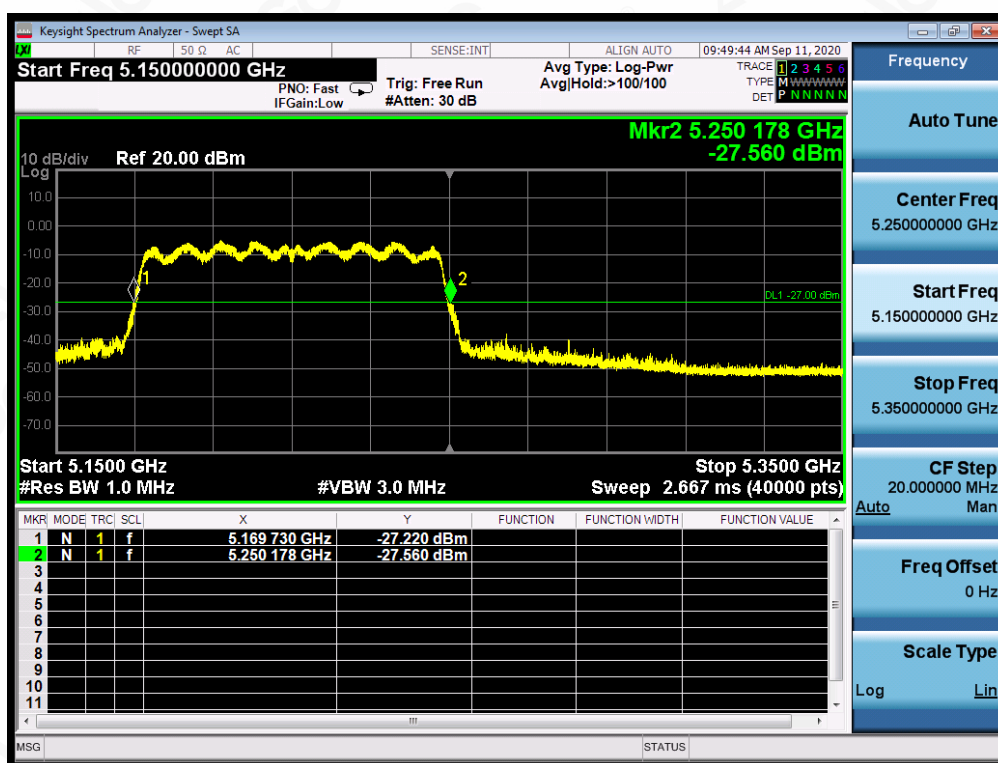
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5210MHz



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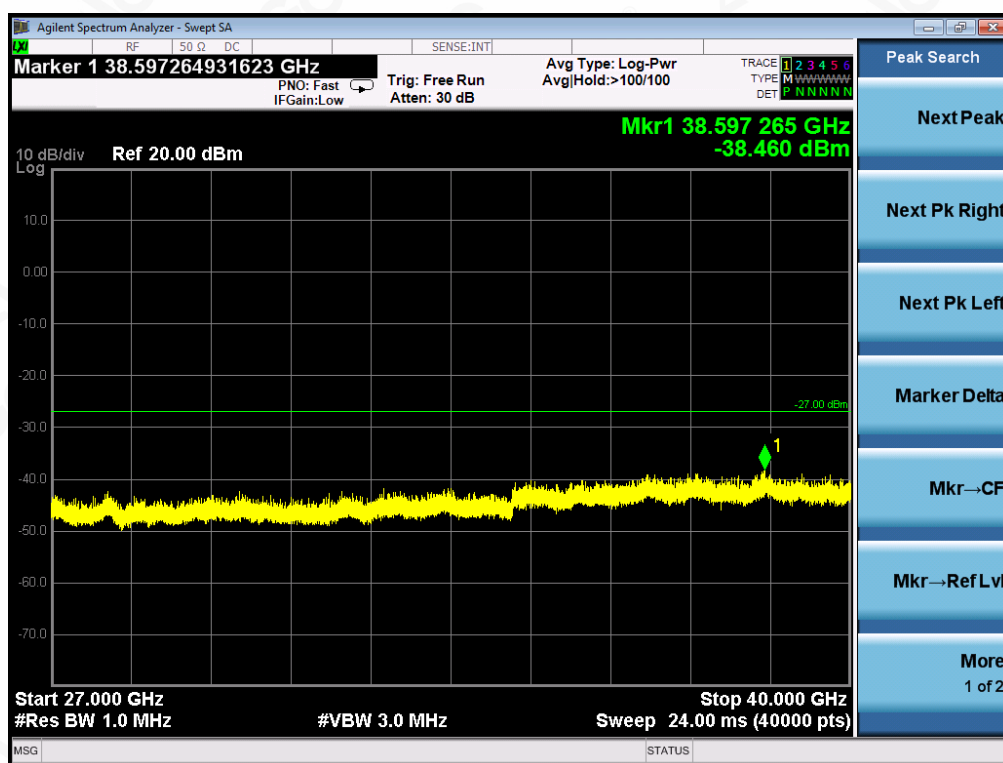




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Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.

Two transmit chains had been tested, the chain 1 was the worst case and record in the test report.

The spurious emission at chain 1 is more than 3dB below the limits, so the MIMO results for the spurious emissions are comply with the requirement.

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

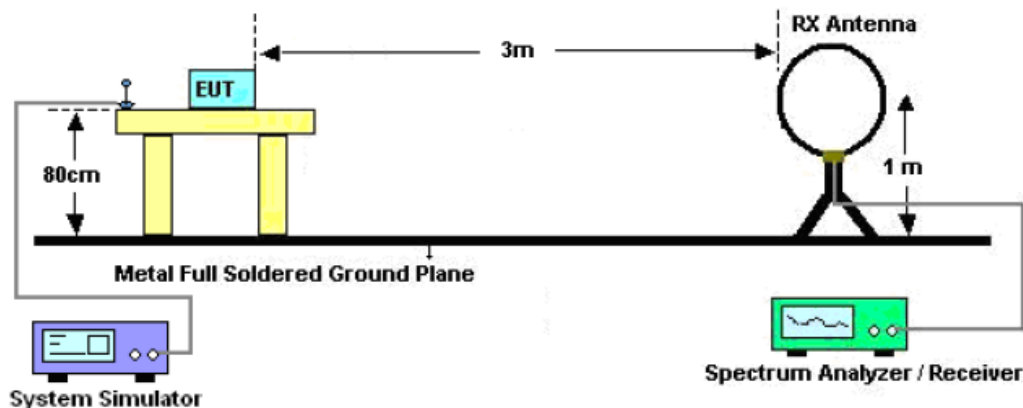
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3M VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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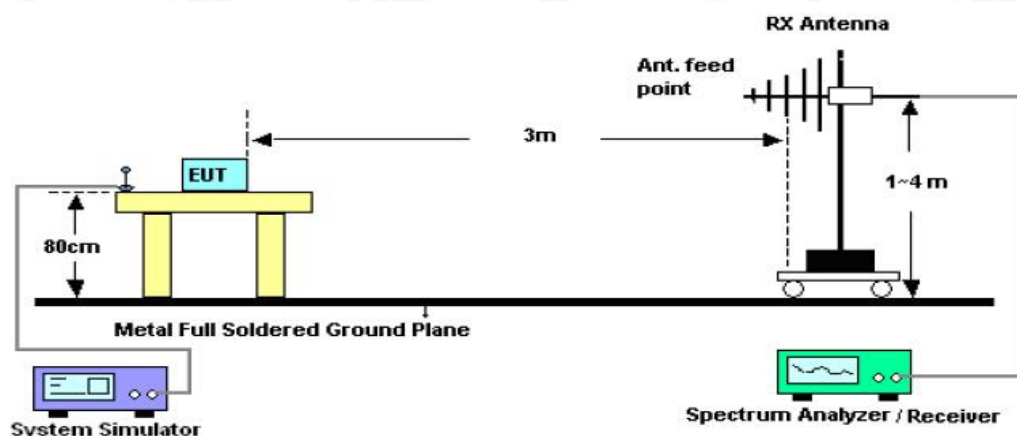


11.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the
permissible value need not be reported.

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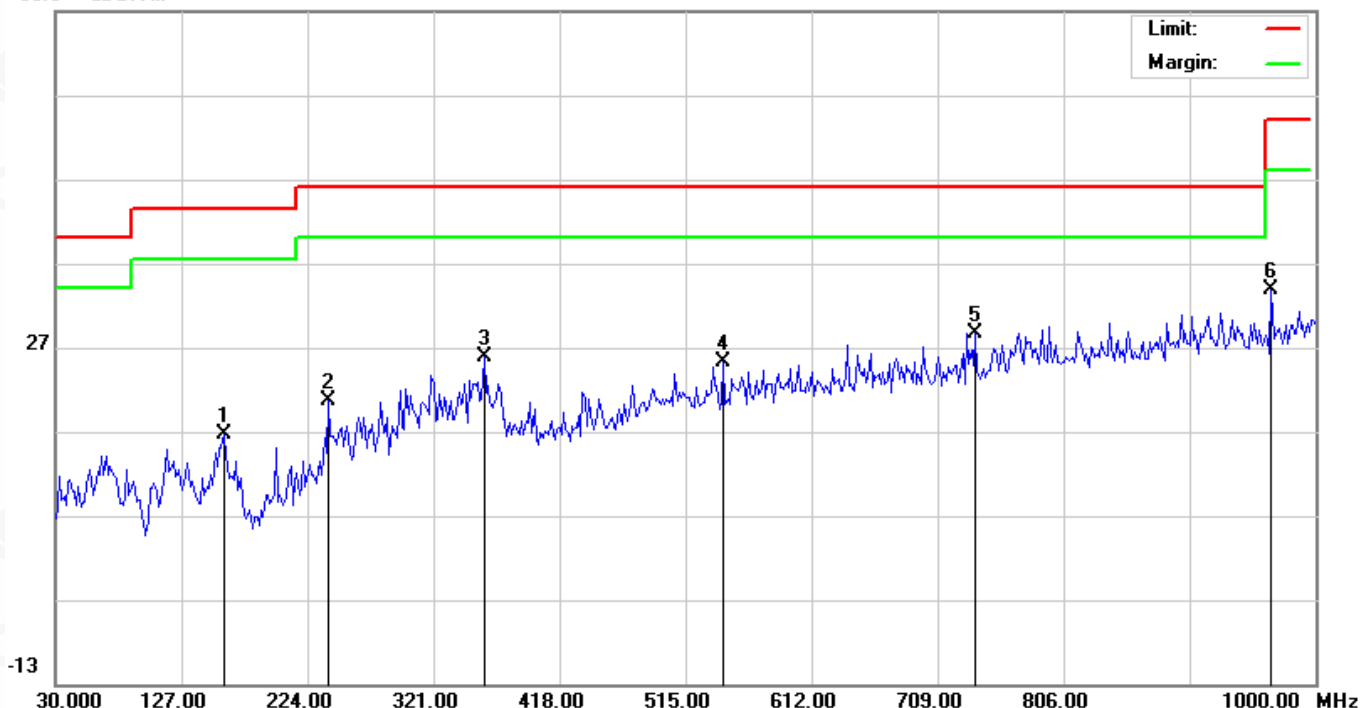
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RADIATED EMISSION BELOW 1GHZ

EUT	Wireless USB Adapter	Model Name	6B22
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		159.3333	-2.38	19.02	16.64	43.50	-26.86	peak
2		240.1667	1.91	18.66	20.57	46.00	-25.43	peak
3		359.8000	4.70	21.18	25.88	46.00	-20.12	peak
4		544.1000	-0.66	25.85	25.19	46.00	-20.81	peak
5	*	738.1000	-0.44	29.01	28.57	46.00	-17.43	peak
6		966.0500	1.46	32.27	33.73	54.00	-20.27	peak

RESULT: PASS

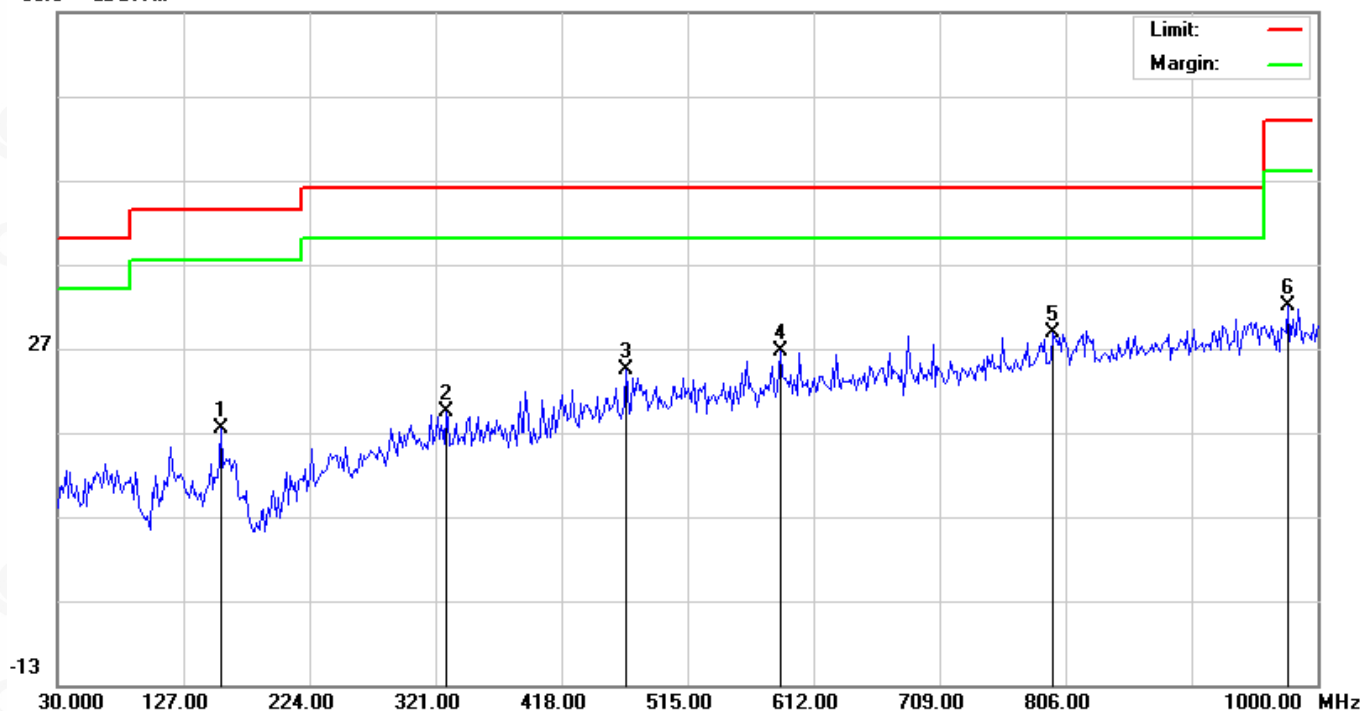
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EUT	Wireless USB Adapter	Model Name	6B22
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		156.1000	-0.87	18.22	17.35	43.50	-26.15	peak
2		329.0833	-1.91	21.33	19.42	46.00	-26.58	peak
3		468.1167	0.79	23.71	24.50	46.00	-21.50	peak
4		586.1332	-0.09	26.68	26.59	46.00	-19.41	peak
5	*	796.3000	-1.60	30.33	28.73	46.00	-17.27	peak
6		977.3667	-0.43	32.37	31.94	54.00	-22.06	peak

RESULT: PASS

Note: All test channels of antenna 1 and antenna 2 had been tested. The 802.11a20 of antenna 1 is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Wireless USB Adapter	Model Name	6B22
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.044	38.46	9.14	47.60	68.20	-20.60	peak
15540.066	41.24	10.22	51.46	74.00	-22.54	peak
15540.066	30.49	10.22	40.71	54.00	-13.29	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.044	39.45	9.14	48.59	68.20	-19.61	peak
15540.066	42.97	10.22	53.19	74.00	-20.81	peak
15540.066	32.55	10.22	42.77	54.00	-11.23	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Wireless USB Adapter	Model Name	6B22
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.044	36.13	9.27	45.40	68.20	-22.80	peak
15720.066	39.84	10.38	50.22	74.00	-23.78	peak
15720.066	29.42	10.38	39.80	54.00	-14.20	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.044	36.34	9.27	45.61	68.20	-22.59	peak
15720.066	39.47	10.38	49.85	74.00	-24.15	peak
15720.066	30.58	10.38	40.96	54.00	-13.04	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: All test channels of antenna 1 and antenna 2 had been tested. The 802.11a20 of antenna 1 is the worst case and recorded in the test report.

Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

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12. BAND EDGE EMISSION

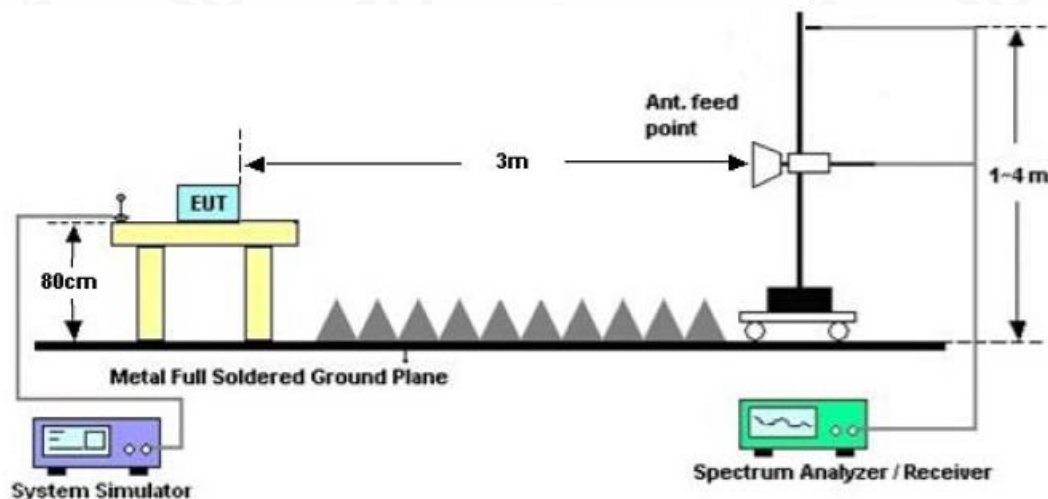
12.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 11.2.

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.
3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

12.2. TEST SET-UP



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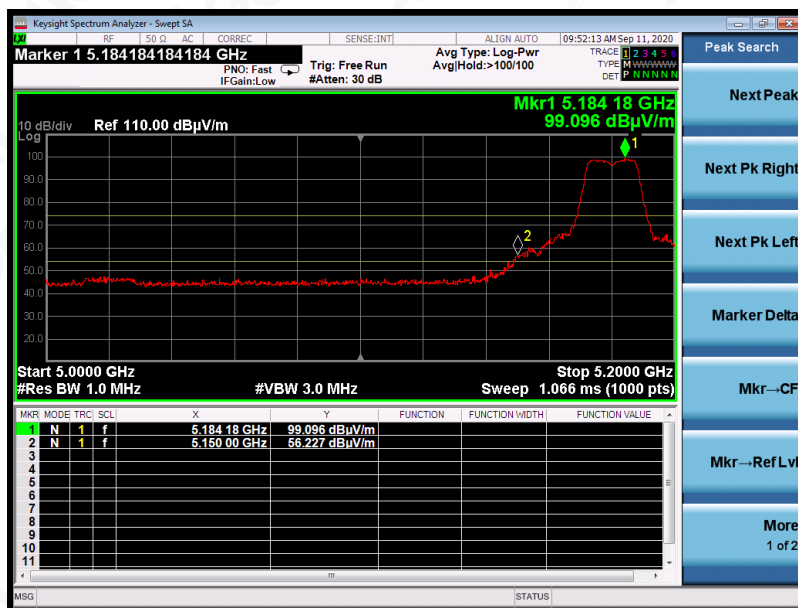
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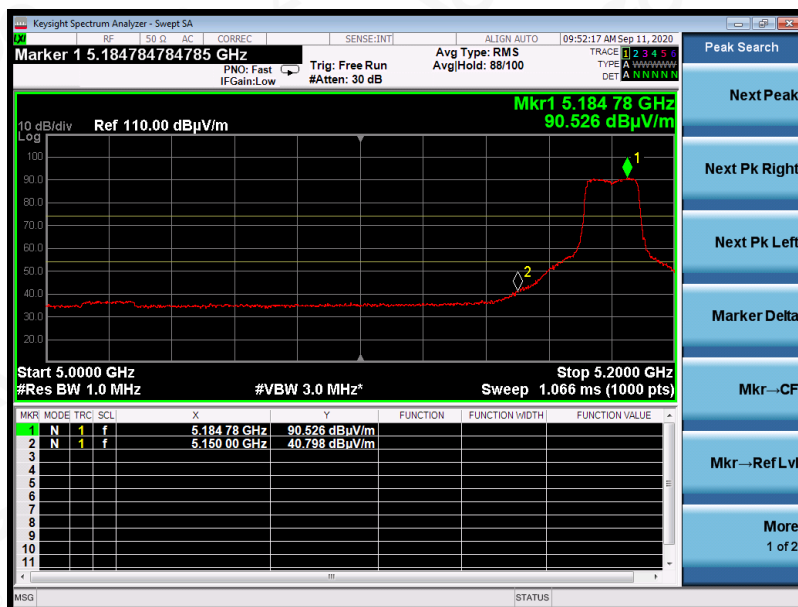
12.3. TEST RESULT

EUT	Wireless USB Adapter	Model Name	6B22
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



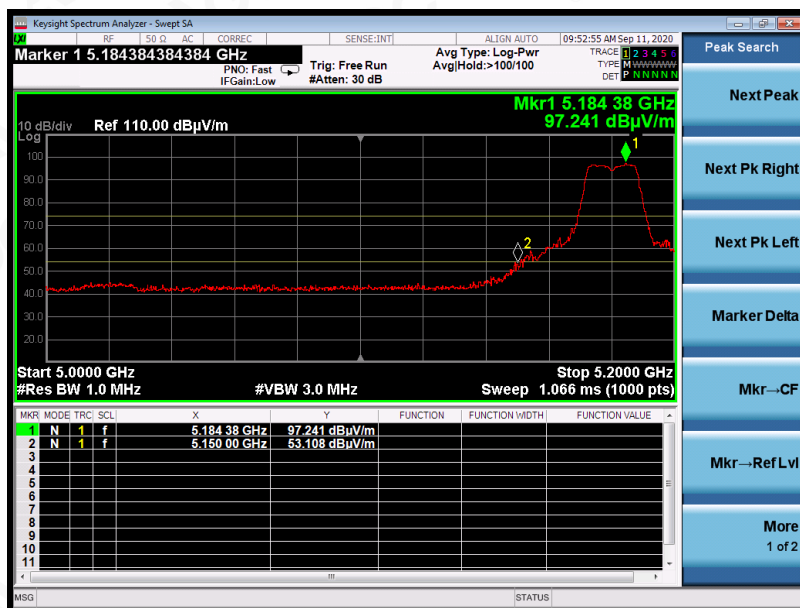
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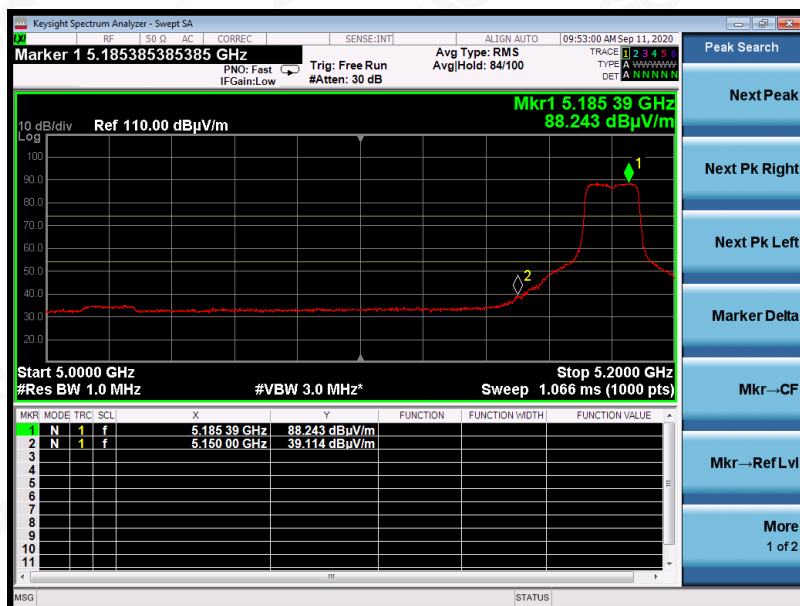


EUT	Wireless USB Adapter	Model Name	6B22
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

PK Value



AV Value



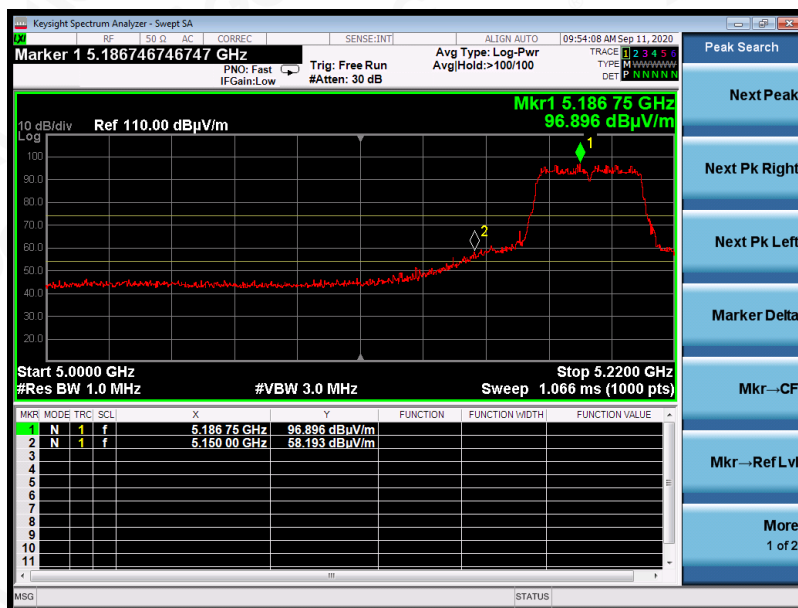
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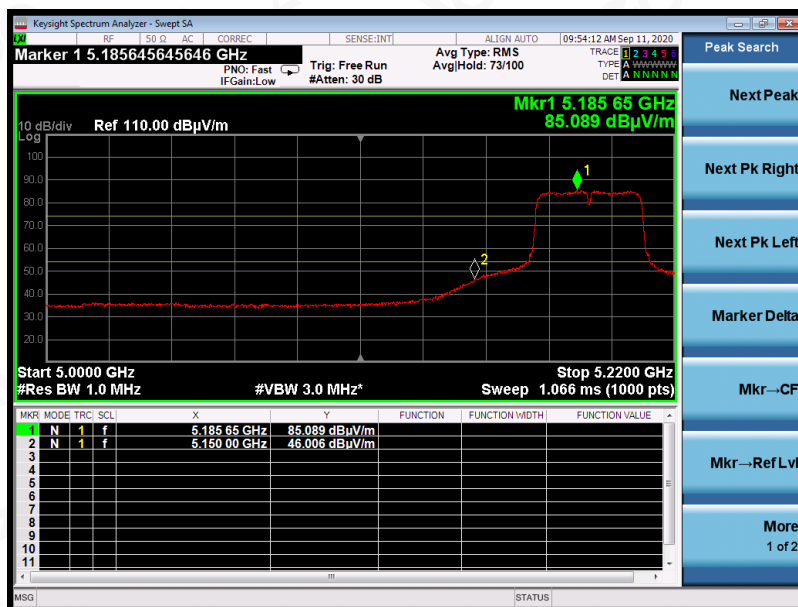


EUT	Wireless USB Adapter	Model Name	6B22
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

PK Value



AV Value



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EUT	Wireless USB Adapter	Model Name	6B22
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

PK Value



AV Value



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EUT	Wireless USB Adapter	Model Name	6B22
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

PK Value



AV Value



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EUT	Wireless USB Adapter	Model Name	6B22
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

PK Value



AV Value



RESULT: PASS

Note: The antenna 1 and antenna 2 at 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.

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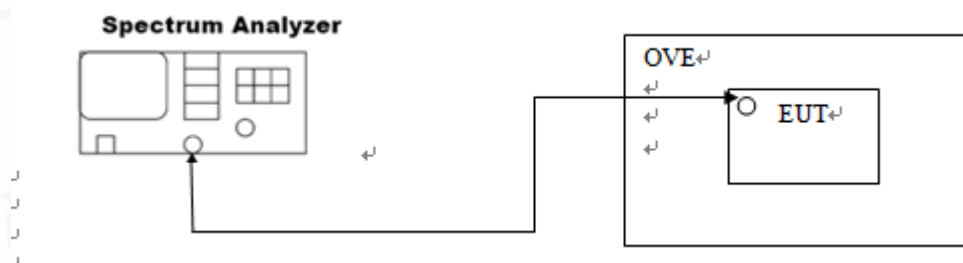


13. FREQUENCY STABILITY

13.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the operation frequency.
3. Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
4. Set SPA Trace 1 Max hold, then View.
5. Extreme temperature rule is -10°C~60°C.

13.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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13.3. MEASUREMENT RESULTS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11a	- 10℃	5180	5180.025	PASS
	0℃	5180	5180.024	PASS
	10℃	5180	5180.027	PASS
	20℃	5180	5180.026	PASS
	30℃	5180	5180.027	PASS
	40℃	5180	5180.028	PASS
	50℃	5180	5180.025	PASS
	60℃	5180	5180.021	PASS
	- 10℃	5240	5240.052	PASS
	0℃	5240	5240.054	PASS
	10℃	5240	5240.056	PASS
	20℃	5240	5240.057	PASS
	30℃	5240	5240.058	PASS
	40℃	5240	5240.059	PASS
	50℃	5240	5240.055	PASS
	60℃	5240	5240.053	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n20	- 10℃	5180	5180.034	PASS
	0℃	5180	5180.038	PASS
	10℃	5180	5180.034	PASS
	20℃	5180	5180.037	PASS
	30℃	5180	5180.035	PASS
	40℃	5180	5180.036	PASS
	50℃	5180	5180.034	PASS
	60℃	5180	5180.031	PASS
	- 10℃	5240	5240.055	PASS
	0℃	5240	5240.058	PASS
	10℃	5240	5240.057	PASS
	20℃	5240	5240.052	PASS
	30℃	5240	5240.056	PASS
	40℃	5240	5240.053	PASS
	50℃	5240	5240.054	PASS
	60℃	5240	5240.057	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n40	- 10℃	5190	5190.057	PASS
	0℃	5190	5190.054	PASS
	10℃	5190	5190.055	PASS
	20℃	5190	5190.059	PASS
	30℃	5190	5190.054	PASS
	40℃	5190	5190.055	PASS
	50℃	5190	5190.051	PASS
	60℃	5190	5190.057	PASS
	- 10℃	5230	5230.042	PASS
	0℃	5230	5230.046	PASS
	10℃	5230	5230.047	PASS
	20℃	5230	5230.045	PASS
	30℃	5230	5230.041	PASS
	40℃	5230	5230.046	PASS
	50℃	5230	5230.045	PASS
	60℃	5230	5230.042	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac20	- 10℃	5180	5180.034	PASS
	0℃	5180	5180.035	PASS
	10℃	5180	5180.037	PASS
	20℃	5180	5180.038	PASS
	30℃	5180	5180.034	PASS
	40℃	5180	5180.031	PASS
	50℃	5180	5180.033	PASS
	60℃	5180	5180.035	PASS
	- 10℃	5240	5240.057	PASS
	0℃	5240	5240.058	PASS
	10℃	5240	5240.059	PASS
	20℃	5240	5240.055	PASS
	30℃	5240	5240.055	PASS
	40℃	5240	5240.055	PASS
	50℃	5240	5240.054	PASS
	60℃	5240	5240.051	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac40	- 10℃	5190	5190.056	PASS
	0℃	5190	5190.054	PASS
	10℃	5190	5190.052	PASS
	20℃	5190	5190.054	PASS
	30℃	5190	5190.051	PASS
	40℃	5190	5190.055	PASS
	50℃	5190	5190.056	PASS
	60℃	5190	5190.057	PASS
	- 10℃	5230	5230.054	PASS
	0℃	5230	5230.045	PASS
	10℃	5230	5230.044	PASS
	20℃	5230	5230.046	PASS
	30℃	5230	5230.044	PASS
	40℃	5230	5230.042	PASS
	50℃	5230	5230.041	PASS
	60℃	5230	5230.043	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac80	- 10℃	5210	5210.045	PASS
	0℃	5210	5210.047	PASS
	10℃	5210	5210.045	PASS
	20℃	5210	5210.046	PASS
	30℃	5210	5210.044	PASS
	40℃	5210	5210.042	PASS
	50℃	5210	5210.044	PASS
	60℃	5210	5210.042	PASS

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14. FCC LINE CONDUCTED EMISSION TEST

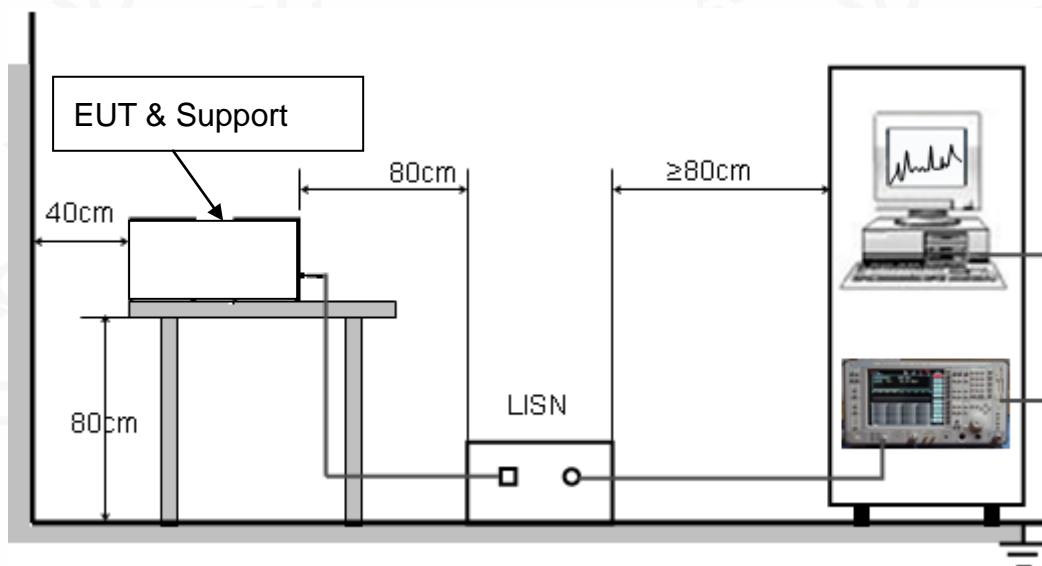
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

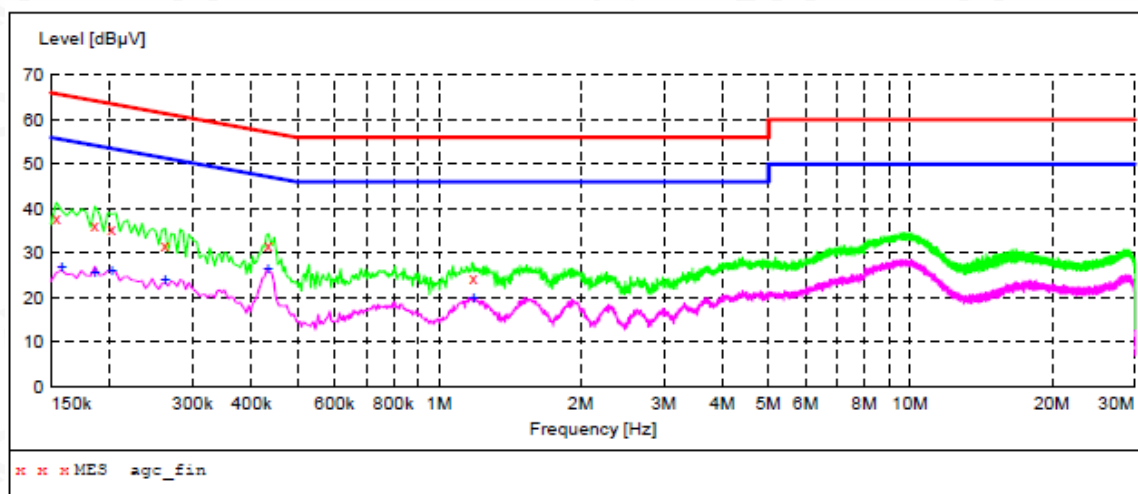
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc_fin"

2020/9/16 15:11

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.154000	38.00	11.3	66	27.8	QP	L1
0.186000	36.30	11.3	64	27.9	QP	L1
0.202000	35.50	11.3	64	28.0	QP	L1
0.262000	31.90	11.3	61	29.5	QP	L1
0.434000	31.90	11.3	57	25.3	QP	L1
1.182000	24.40	11.3	56	31.6	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2020/9/16 15:11

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	26.70	11.3	56	28.9	AV	L1
0.186000	25.90	11.3	54	28.3	AV	L1
0.202000	26.00	11.3	54	27.5	AV	L1
0.262000	23.90	11.3	51	27.5	AV	L1
0.434000	26.50	11.3	47	20.7	AV	L1
1.186000	19.90	11.3	46	26.1	AV	L1

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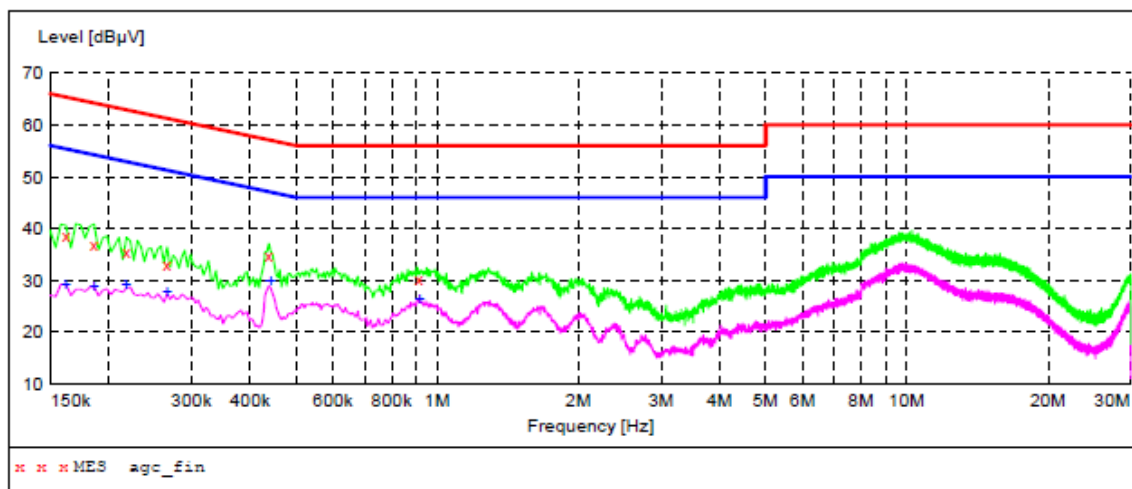
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc_fin"

2020/9/16 15:08

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	38.50	11.3	65	26.9	QP	N
0.186000	37.00	11.3	64	27.2	QP	N
0.218000	35.40	11.3	63	27.5	QP	N
0.266000	32.90	11.3	61	28.3	QP	N
0.438000	34.90	11.3	57	22.2	QP	N
0.914000	30.20	11.3	56	25.8	QP	N

MEASUREMENT RESULT: "agc_fin2"

2020/9/16 15:08

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	29.20	11.3	55	26.2	AV	N
0.186000	28.80	11.3	54	25.4	AV	N
0.218000	29.20	11.3	53	23.7	AV	N
0.266000	27.70	11.3	51	23.5	AV	N
0.442000	29.90	11.3	47	17.1	AV	N
0.918000	26.50	11.3	46	19.5	AV	N

RESULT: PASS

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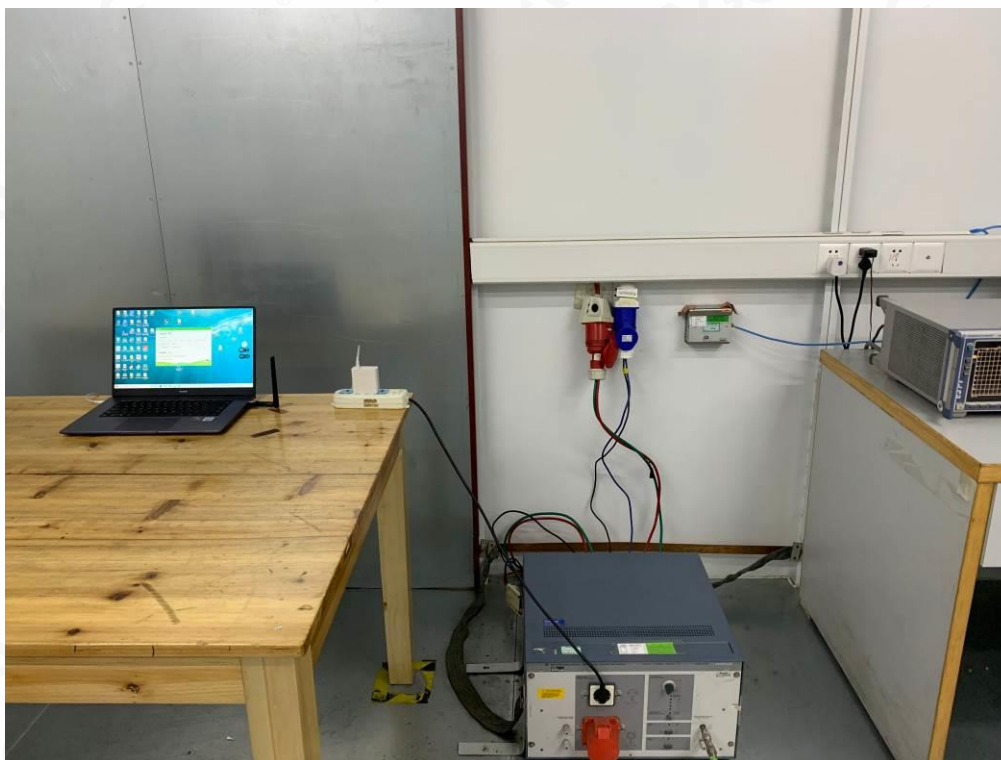
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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