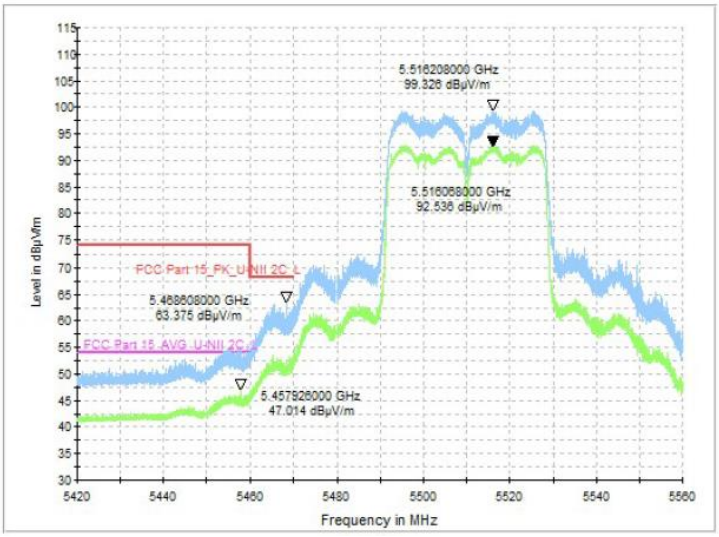
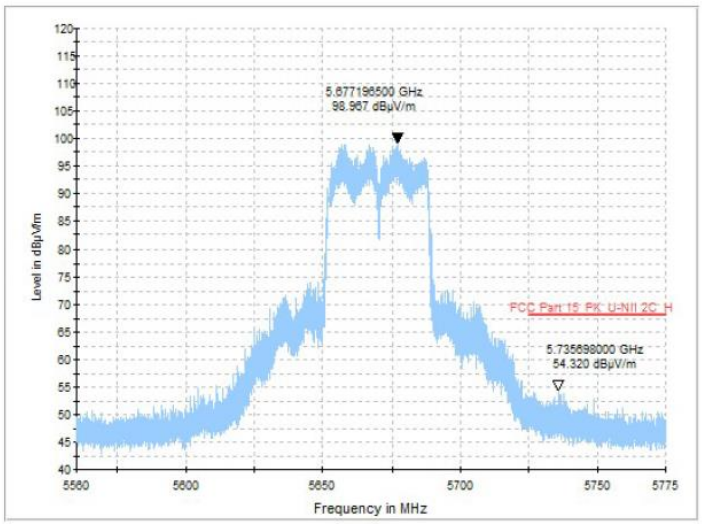
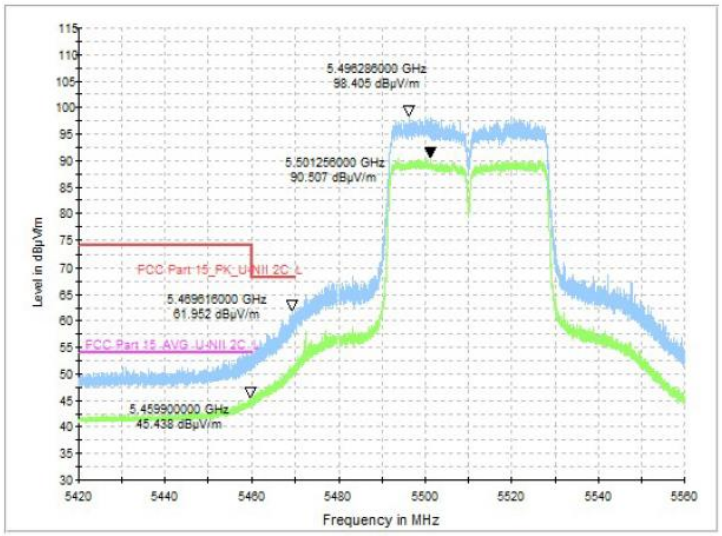
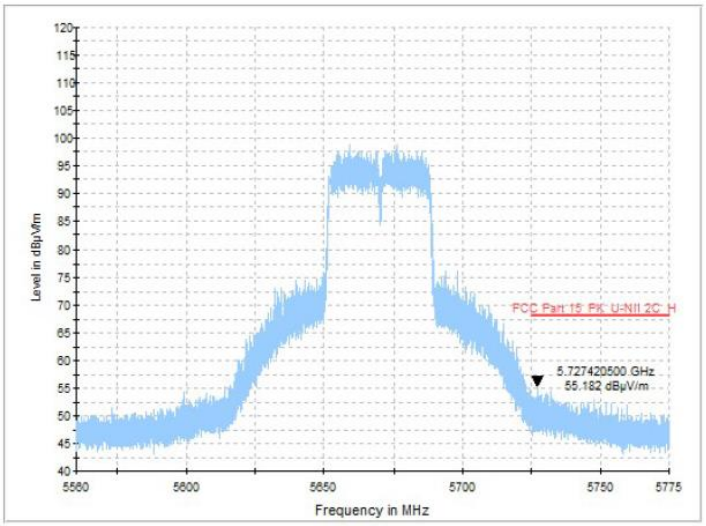
Mode: 802.11n(HT40)	Frequency: 5510MHz	Mode: 802.11n(HT40)	Frequency: 5670MHz



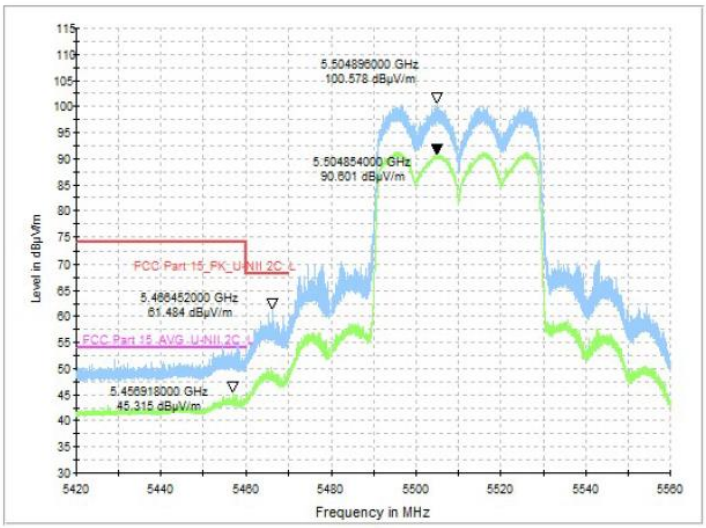


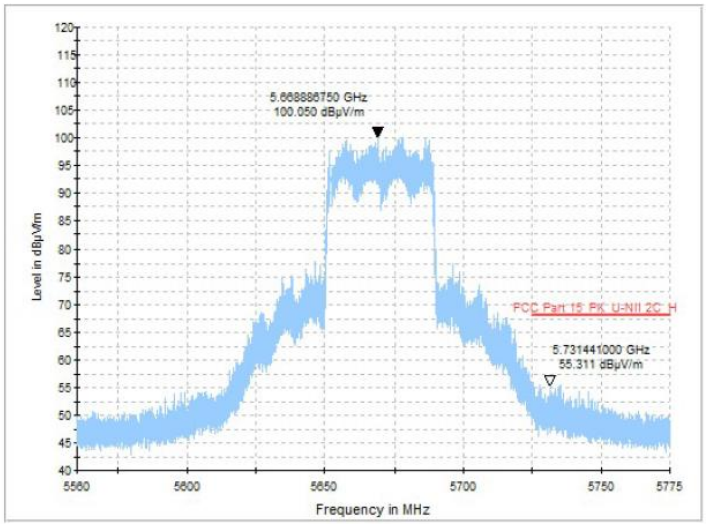
Mode: 802.11ac(HT40)	Frequency: 5510MHz	Mode: 802.11ac(HT40)	Frequency: 5670MHz



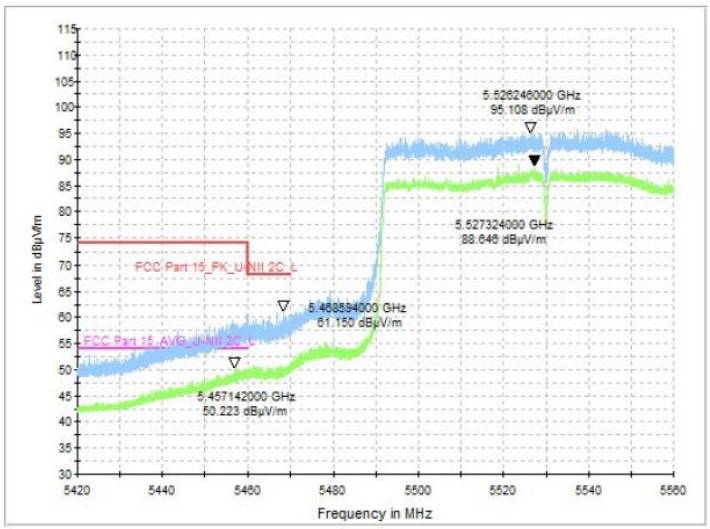


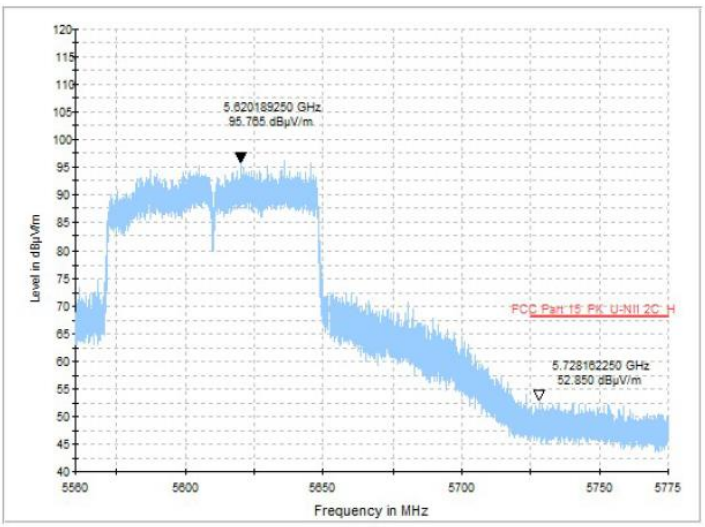
Mode: 802.11ax40	Frequency: 5510MHz	Mode: 802.11ax40	Frequency: 5670MHz



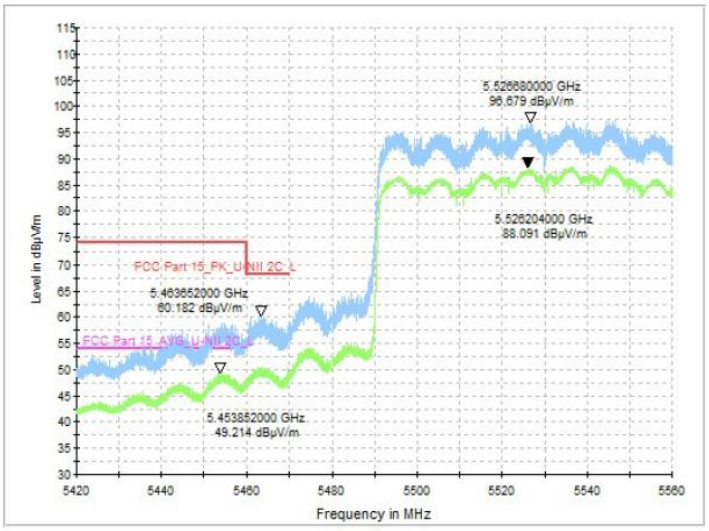


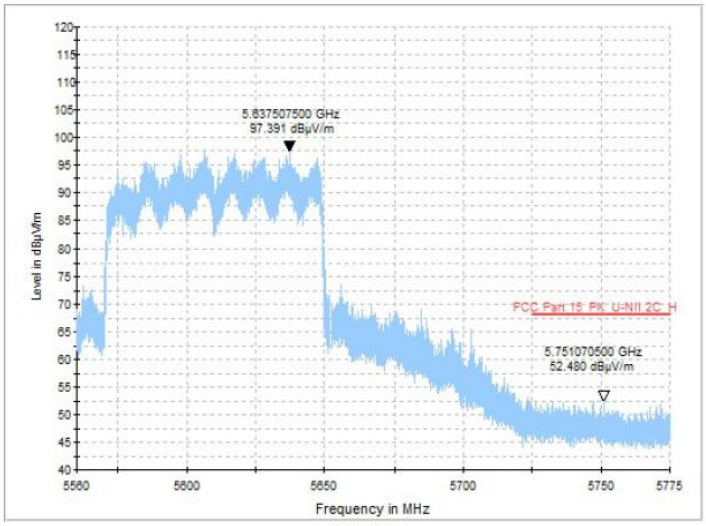
Mode: 802.11ac(HT80)	Frequency: 5230MHz	Mode: 802.11ac(HT80)	Frequency: 5610MHz





Mode: 802.11ax80	Frequency: 5230MHz	Mode: 802.11ax80	Frequency: 5610MHz



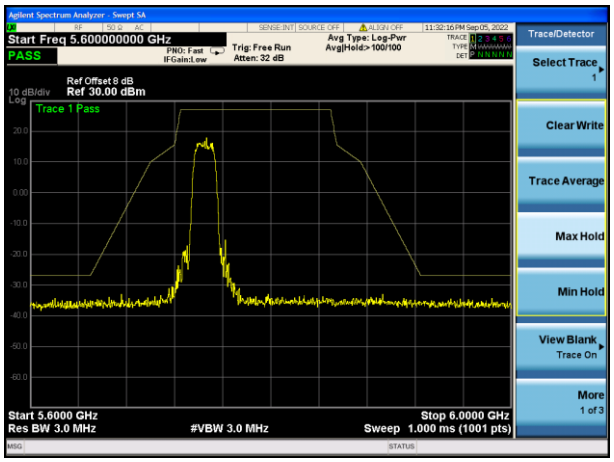


Note: 1. Except for mode a, other modes test the MIMO status.

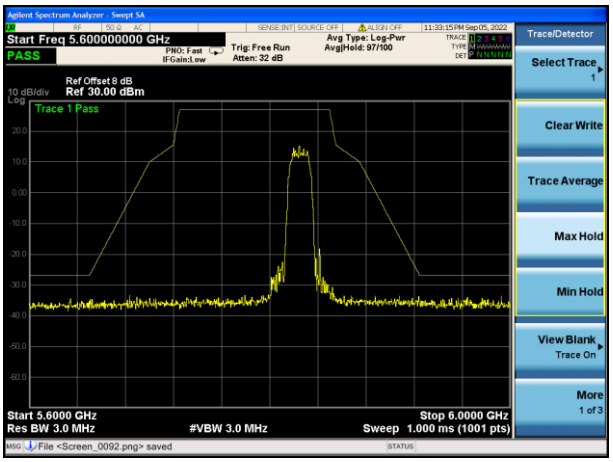
2. Mode a represents the worst data of antenna 1

Band4

802.11a

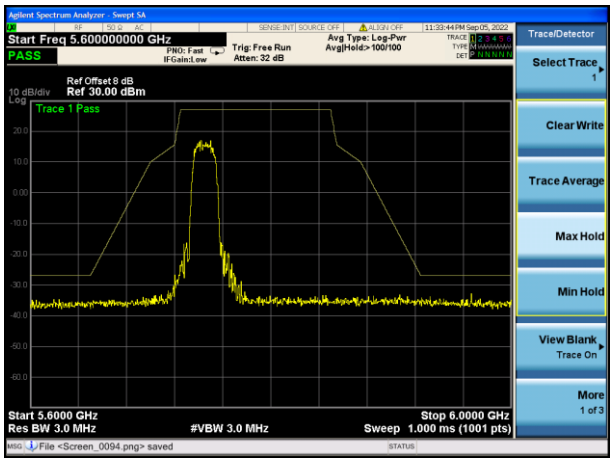


Low: 5745MHz

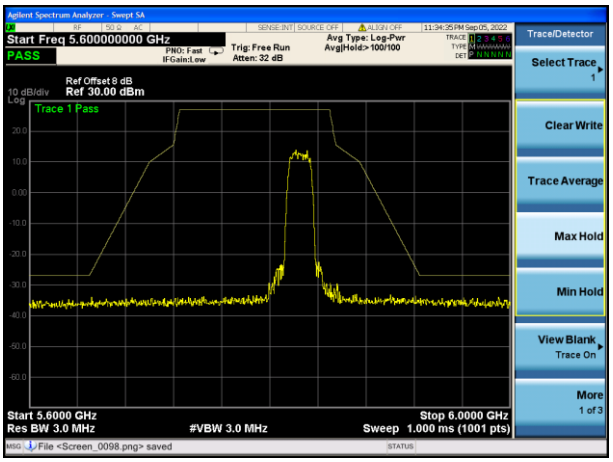


High: 5825MHz

802.11n(HT20)

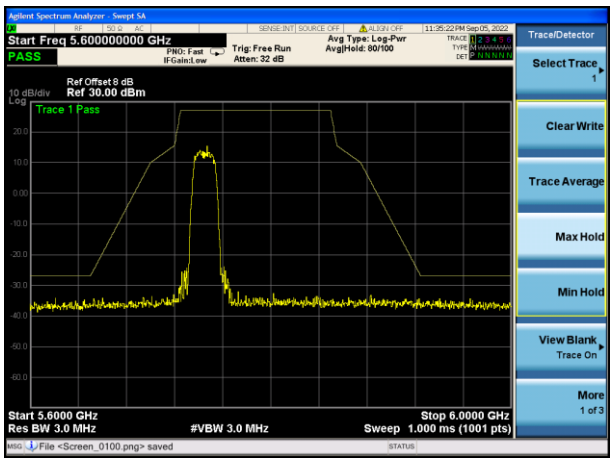


Low: 5745MHz

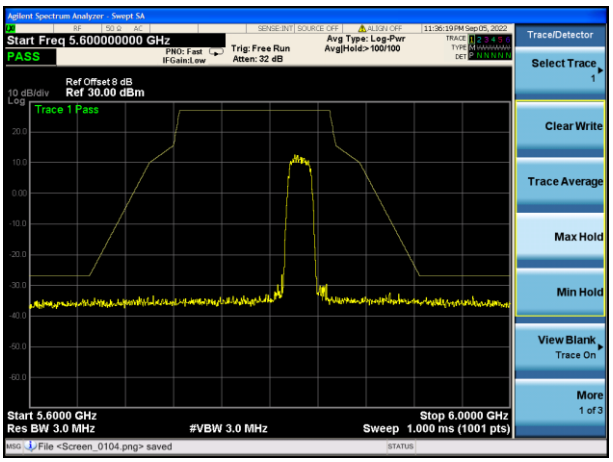


High: 5825MHz

802.11ac(HT20)

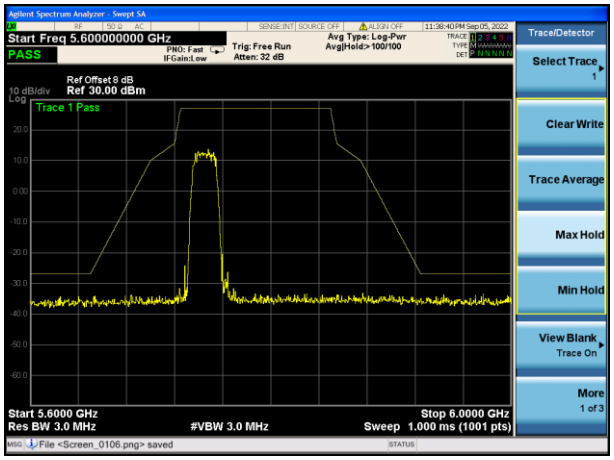


Low: 5745MHz

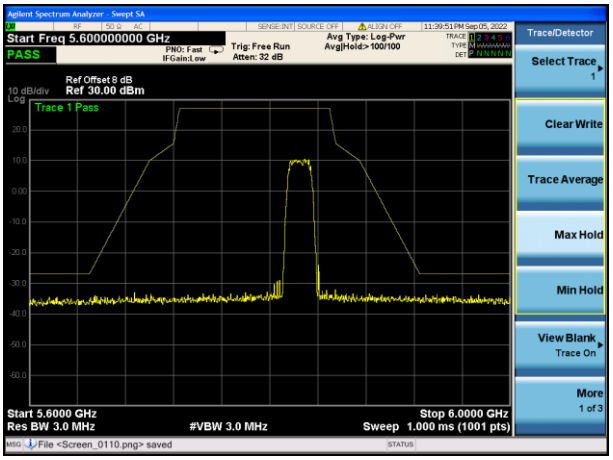


High: 5825MHz

802.11ax20

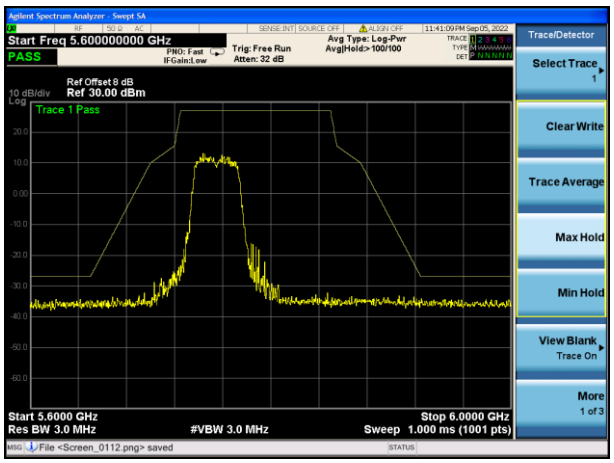


Low: 5745MHz

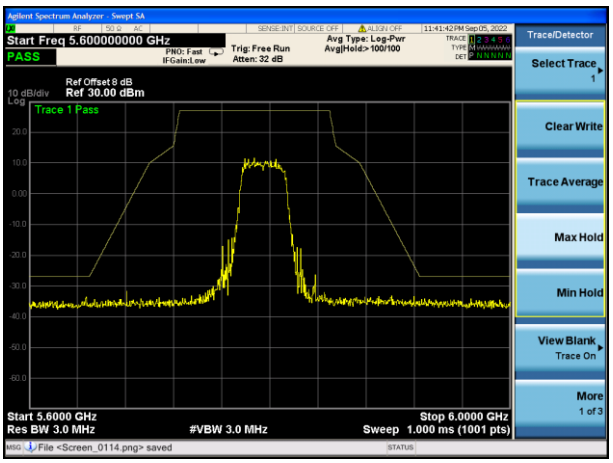


High: 5825MHz

802.11n(HT40)

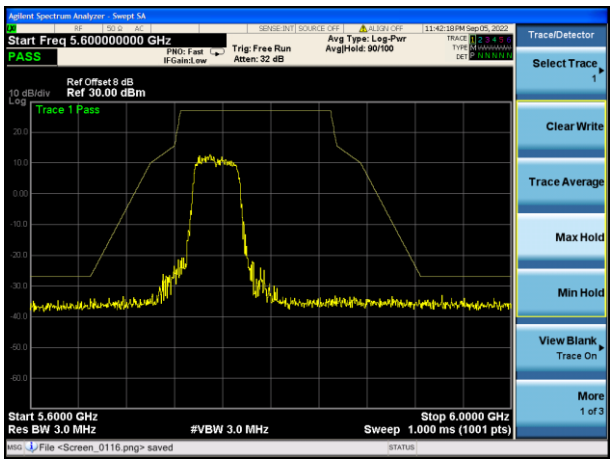


Low: 5755MHz

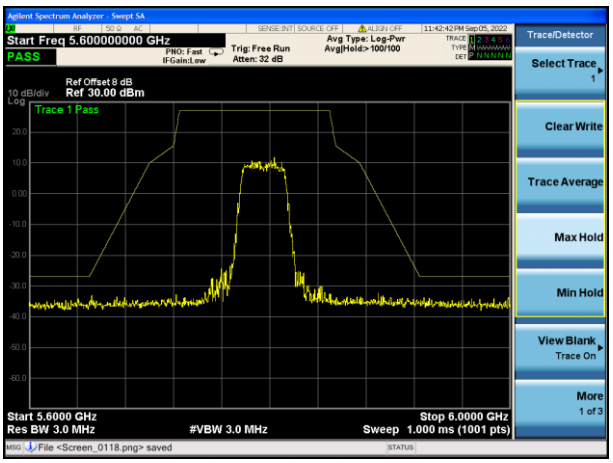


High: 5795MHz

802.11ac(HT40)

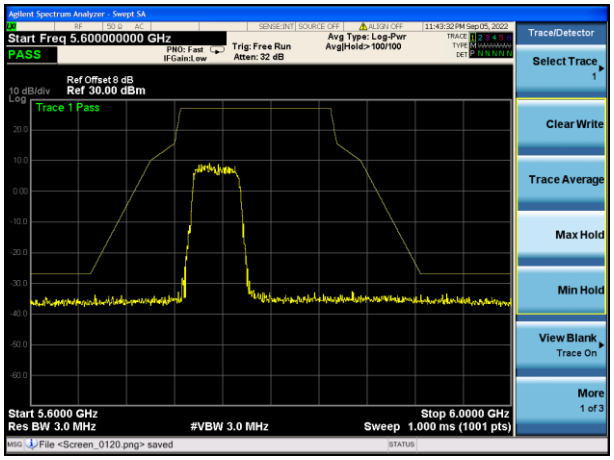


Low: 5755MHz

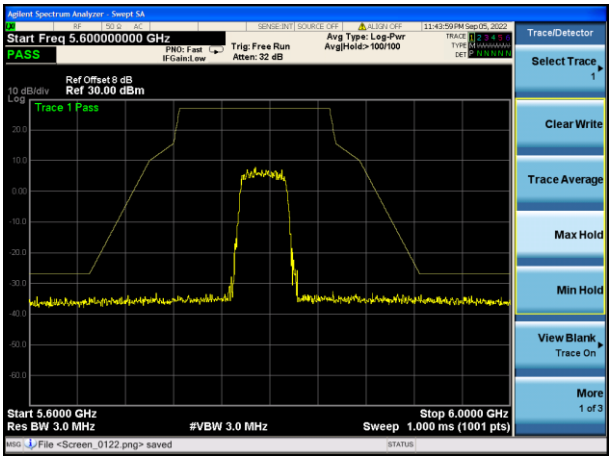


High: 5795MHz

802.11ax40

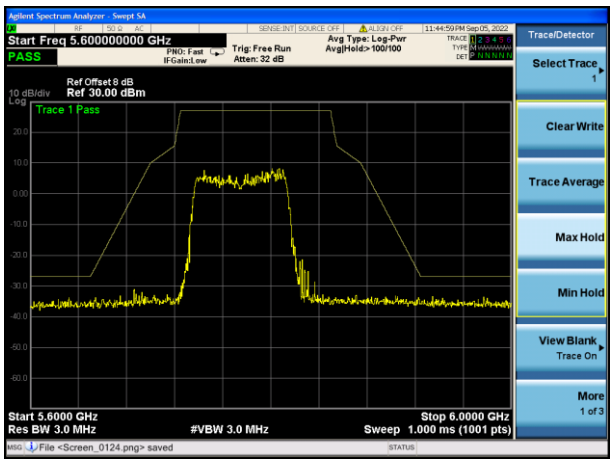


Low: 5755MHz



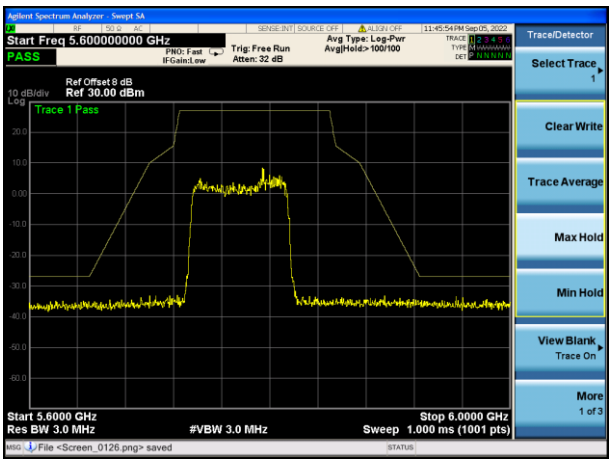
High: 5795MHz

802.11ac(HT80)



5775MHz

802.11ax80



5775MHz

Note: 1. Except for mode a, other modes test the MIMO status.

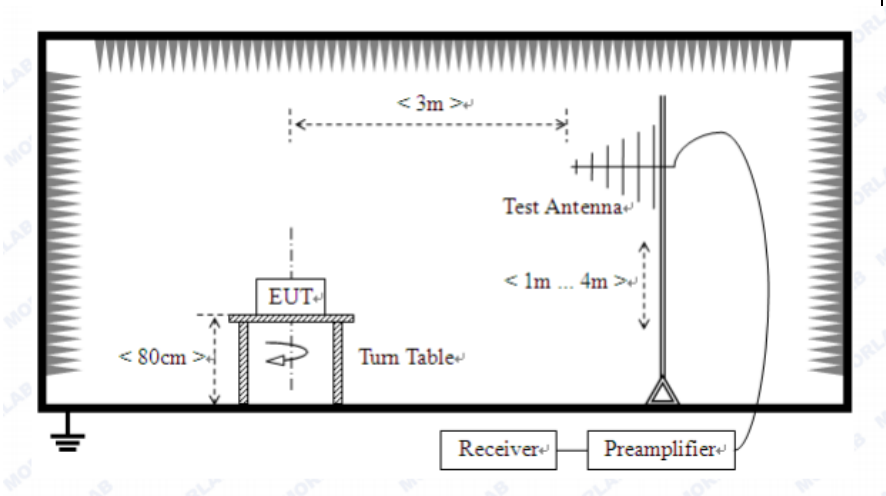
2. Mode a represents the worst data of antenna 1

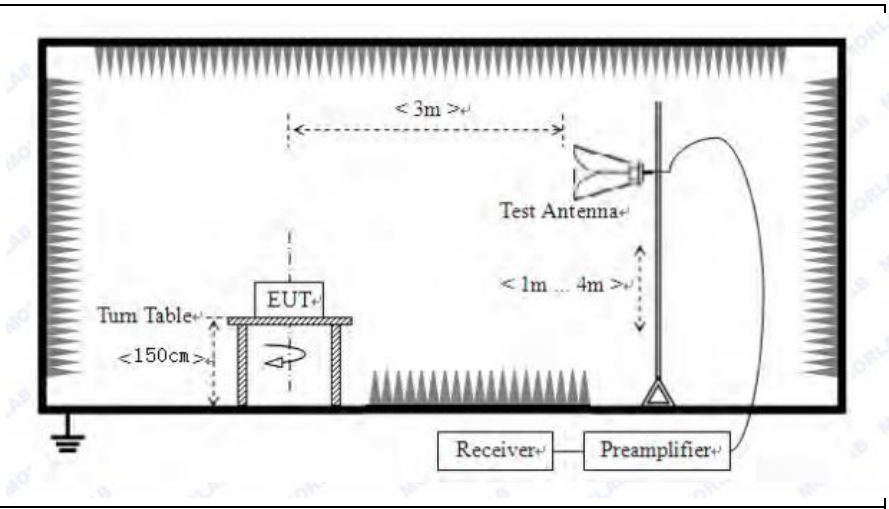
4.7 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 40GHz</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>Value</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</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>74.0</td><td>Peak Value</td></tr>
<tr><td>54.0</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>
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.

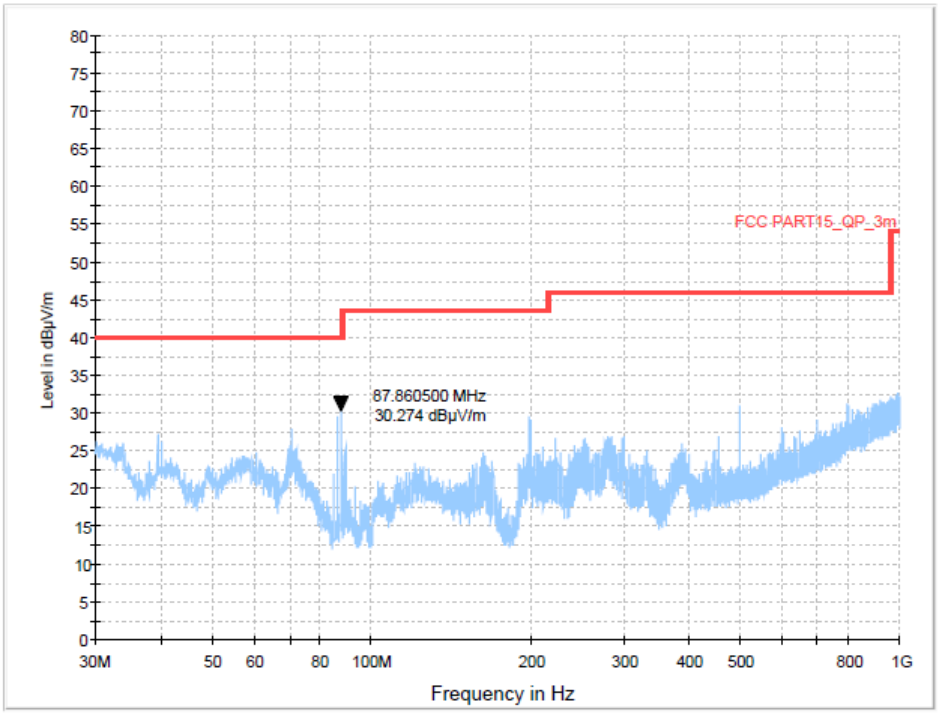
2>.Above 1GHz test procedure:
1. On the test site as test setup graph above,the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider.
2. The test antenna shall be oriented initially for vertical polarization and shall be chosen 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
</td></tr>
</table>

	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:	Below 1GHz  Above 1GHz

	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data:

Below 1GHz

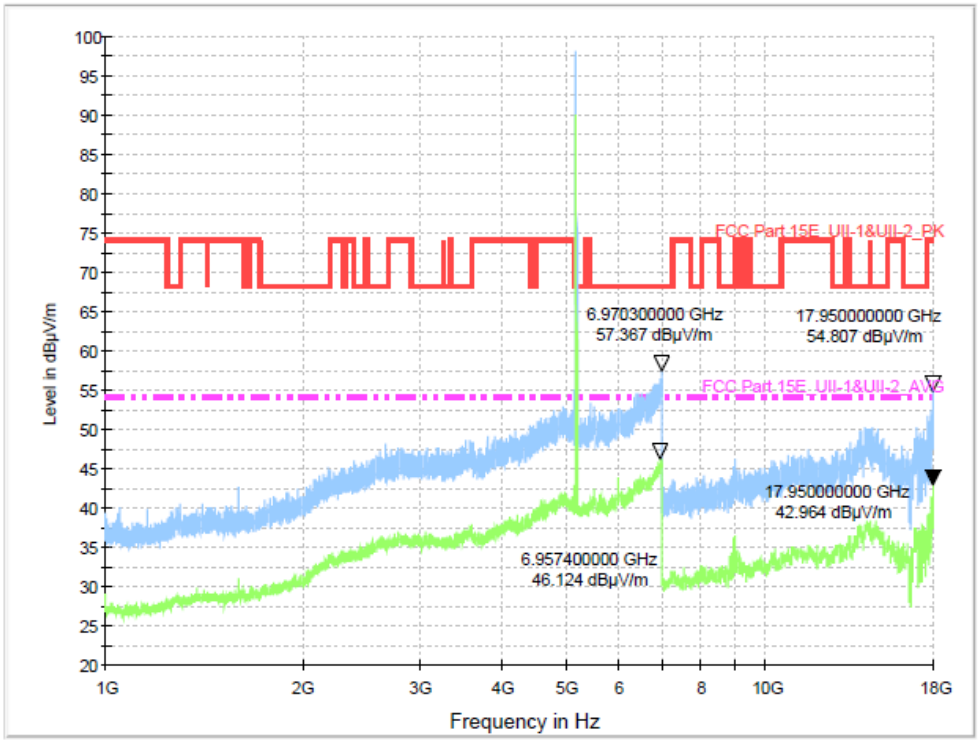


Remark: All modes have been tested, and only worst data of ax20 mode, Channel 5200MHz was listed in this report.

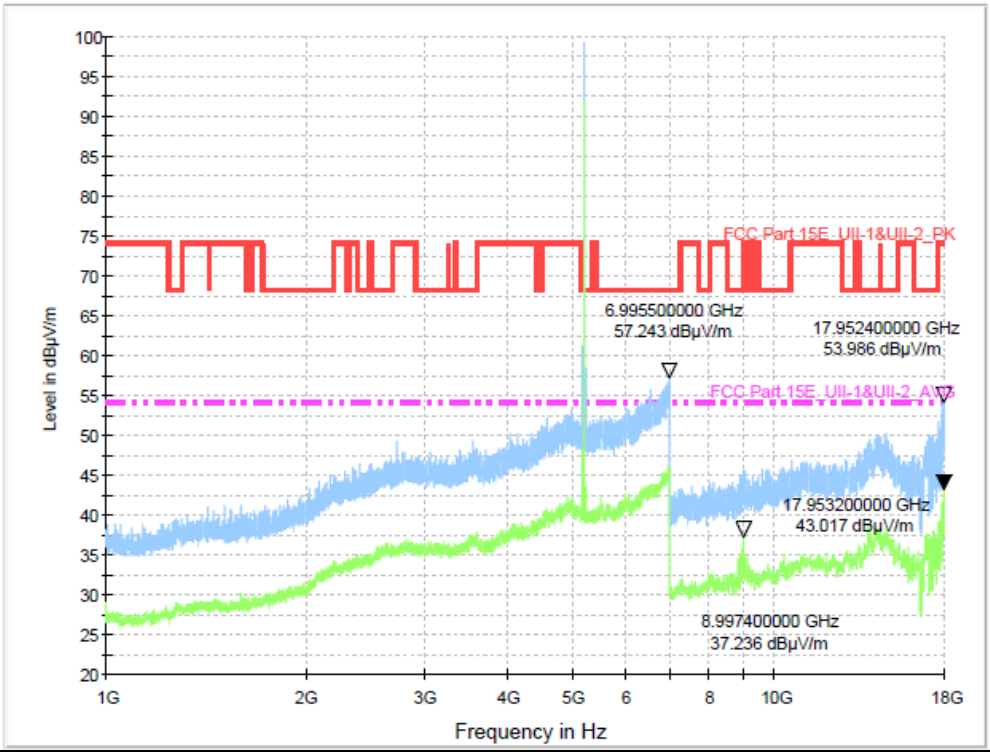
Above 1GHz:

Band 1

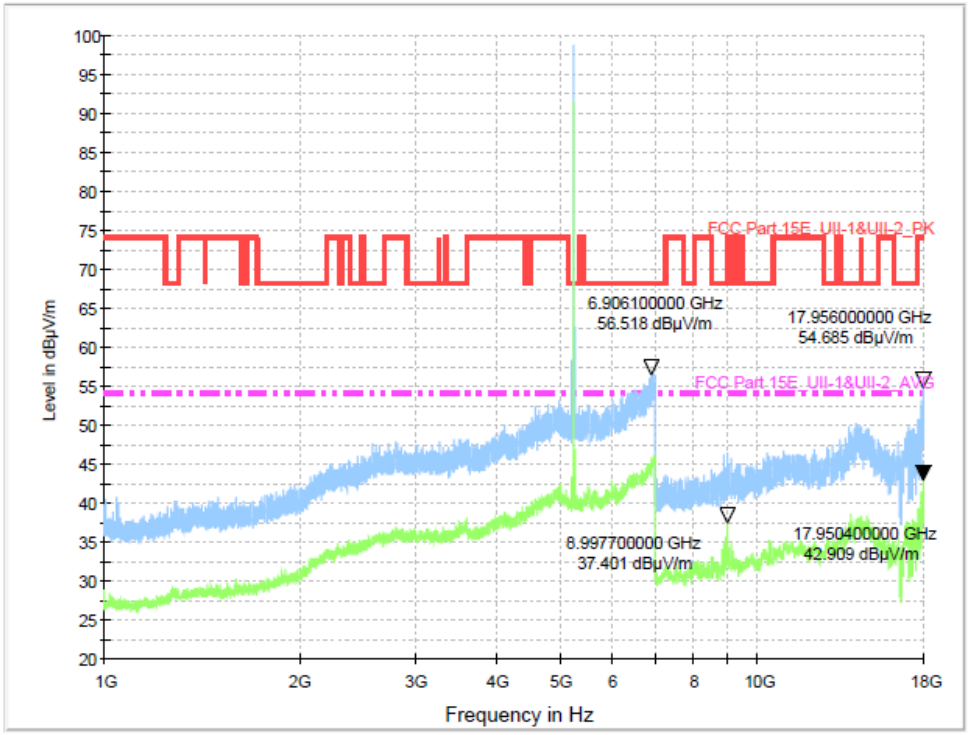
a 5180MHz



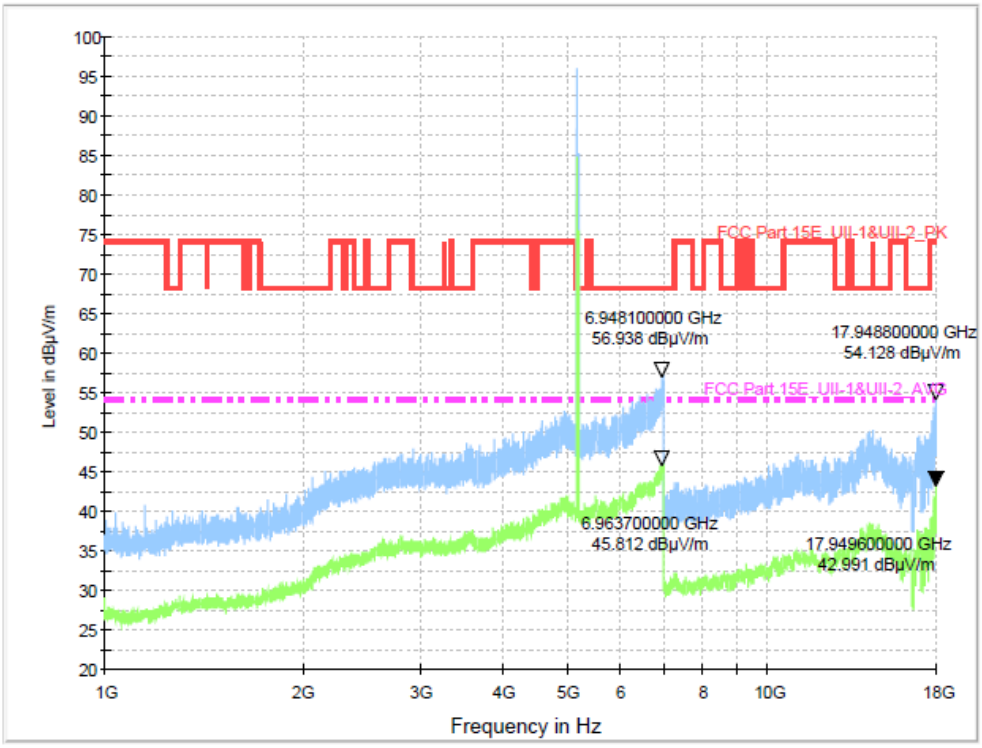
a 5200MHz



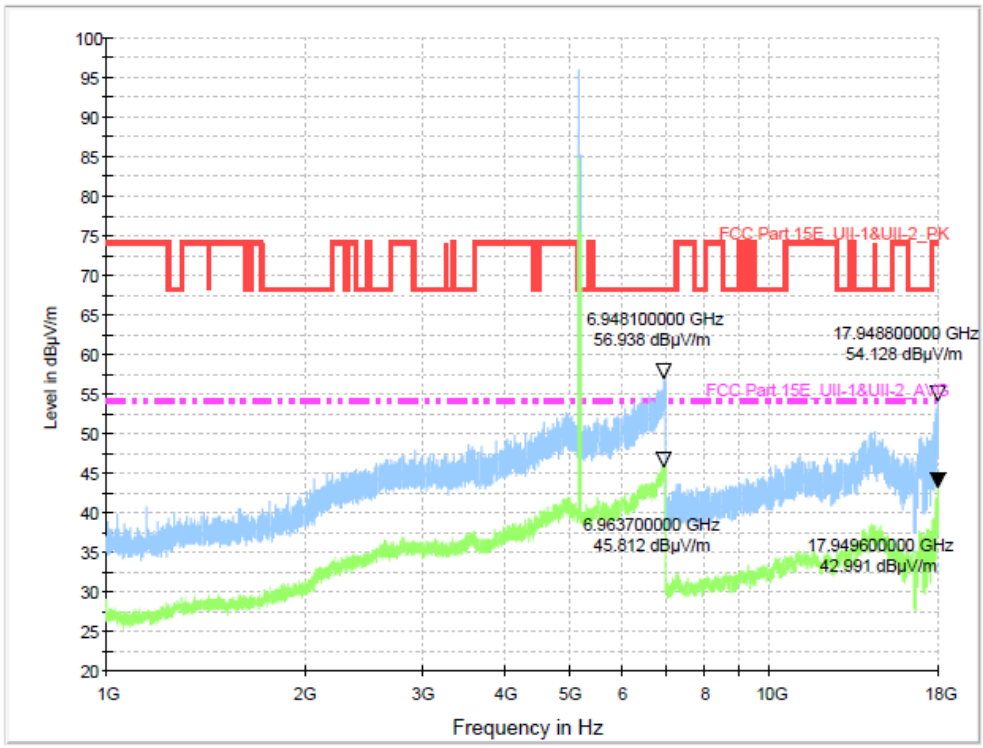
a 5240MHz



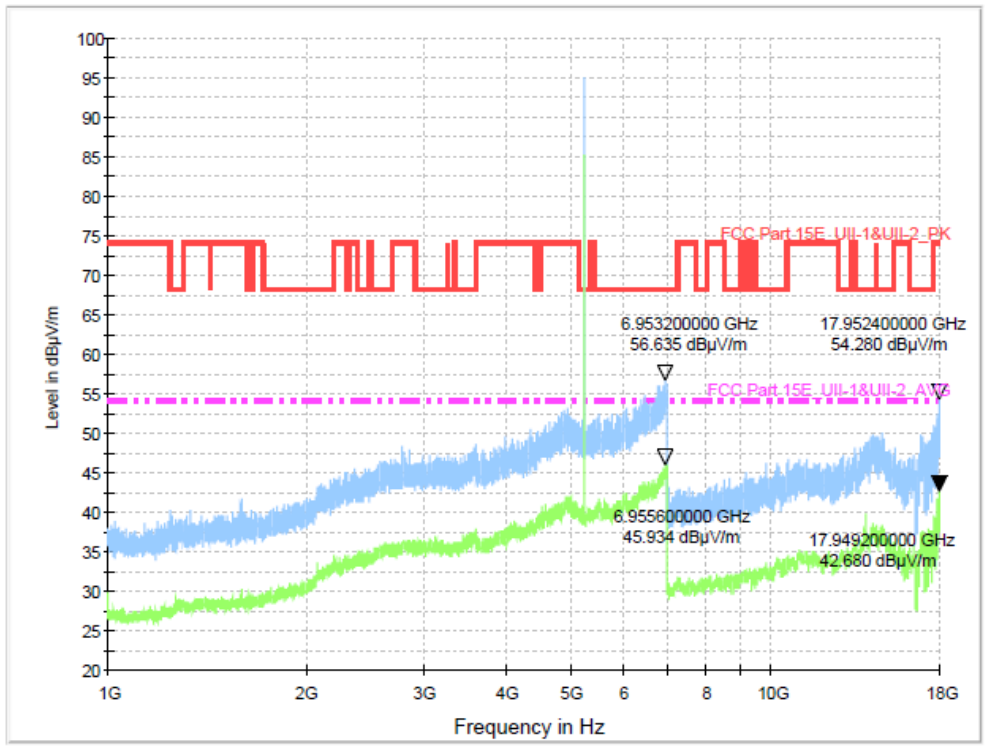
ac20 5180MHz



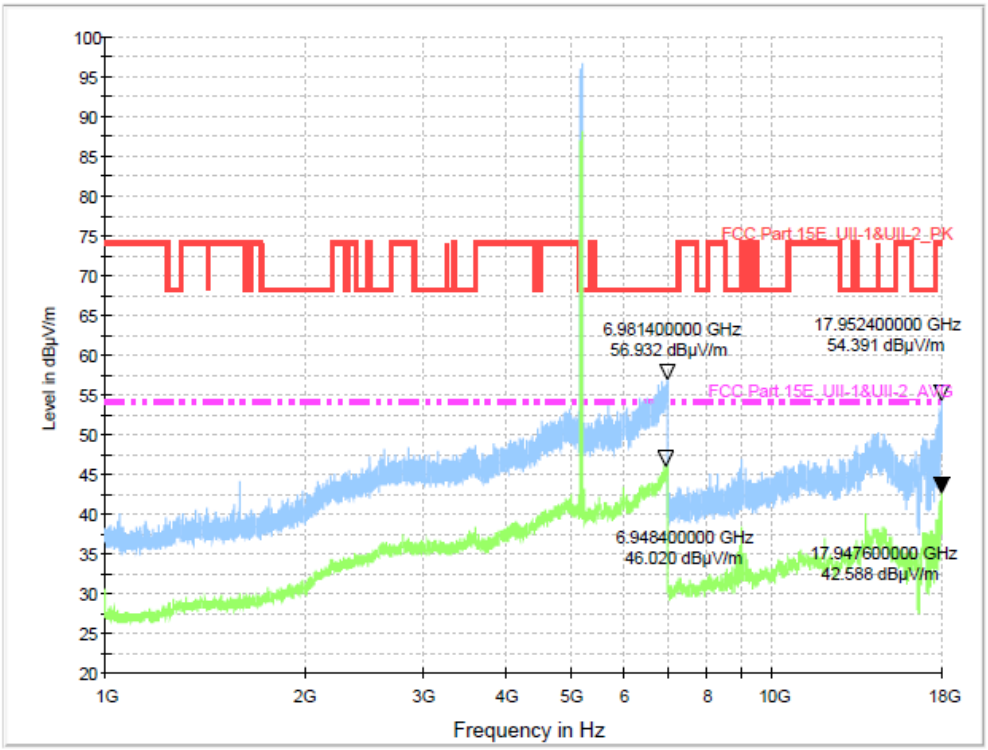
ac20 5200MHz



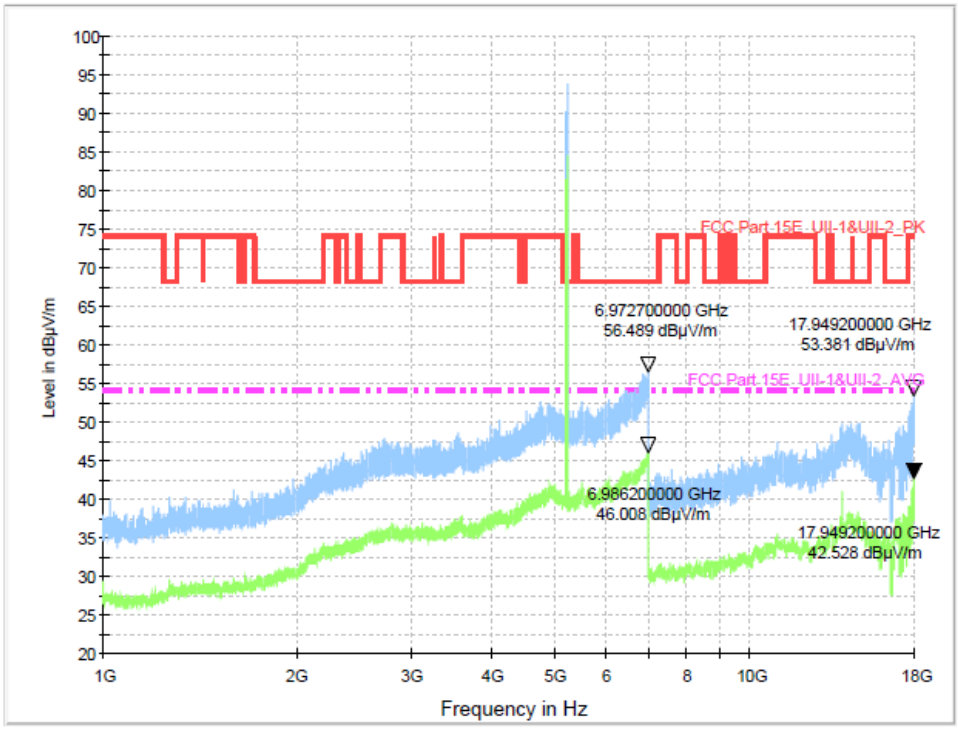
ac20 5240MHz



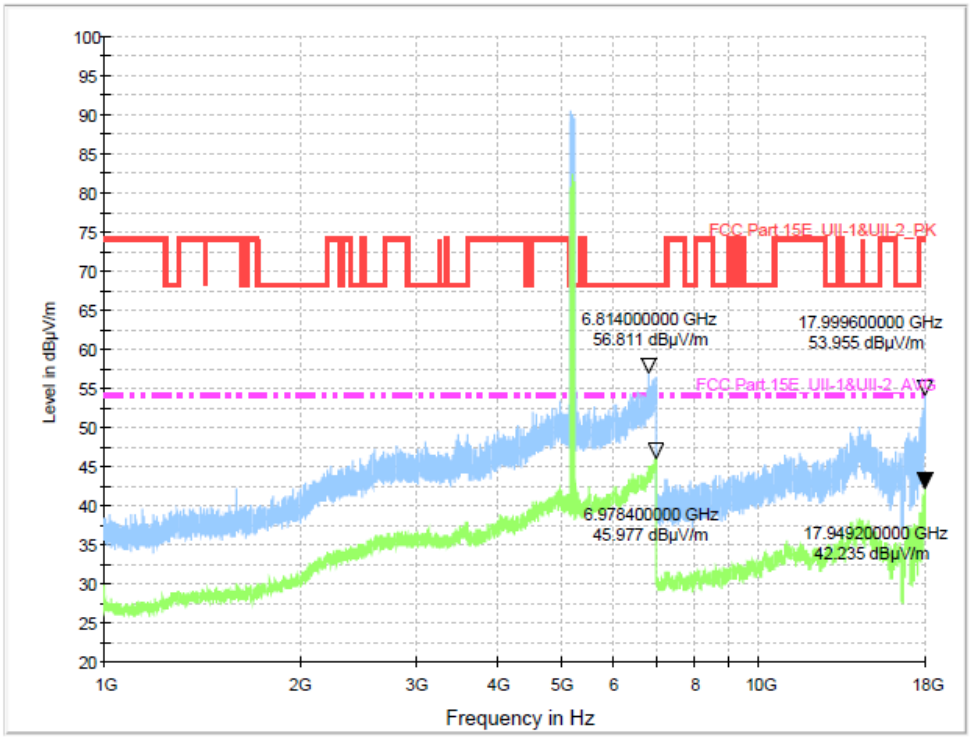
ac40 5190MHz



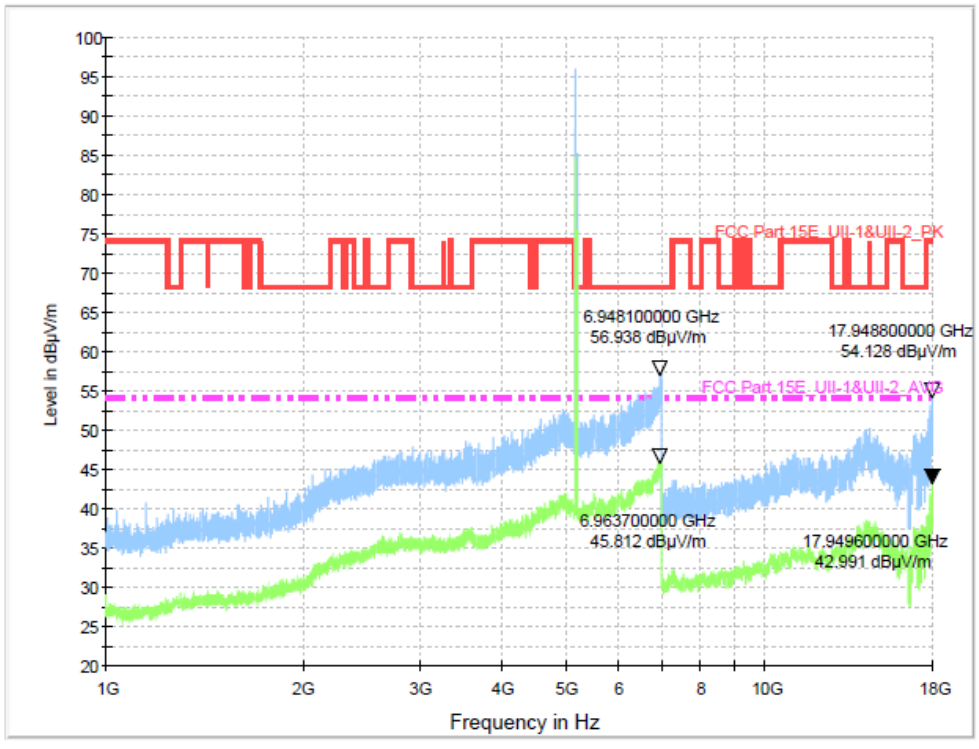
ac40 5230MHz



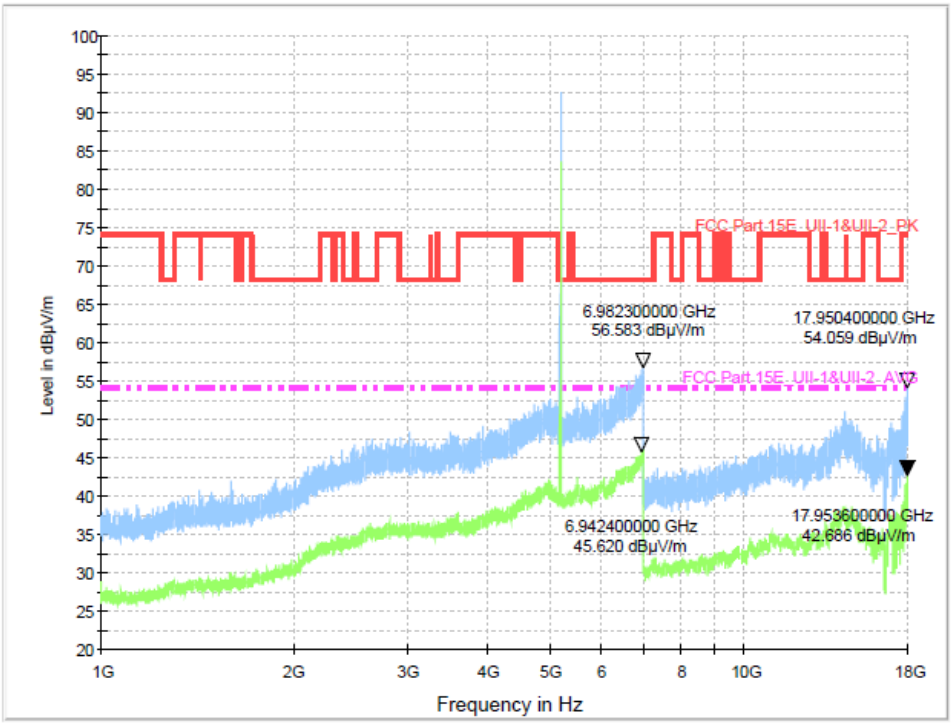
ac80 5210MHz



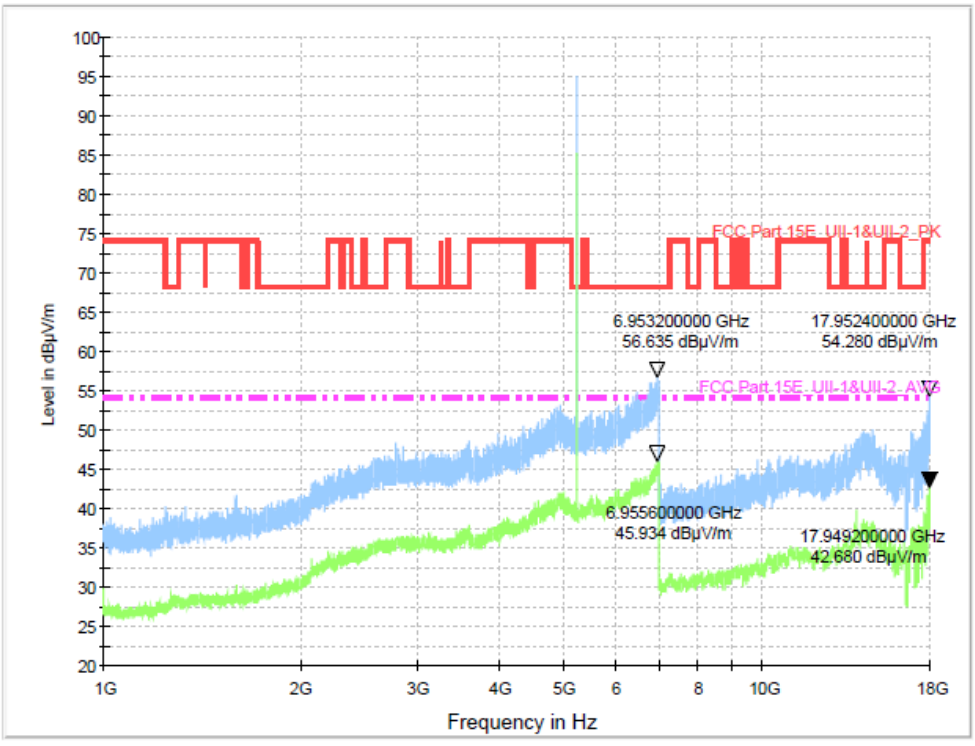
ax20 5180MHz



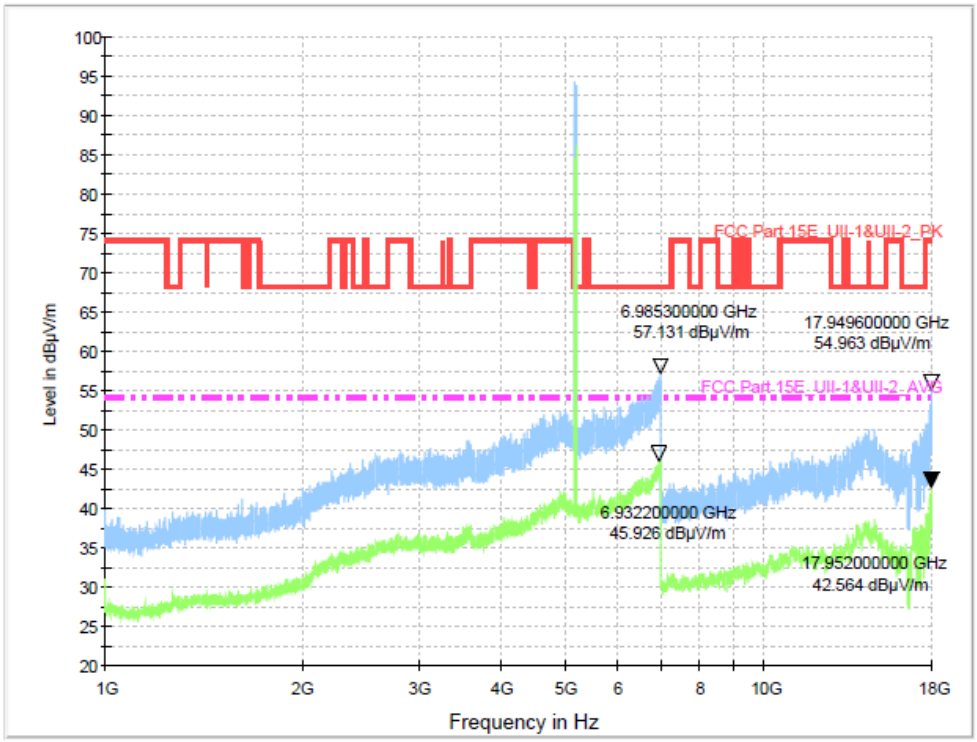
ax20 5200MHz



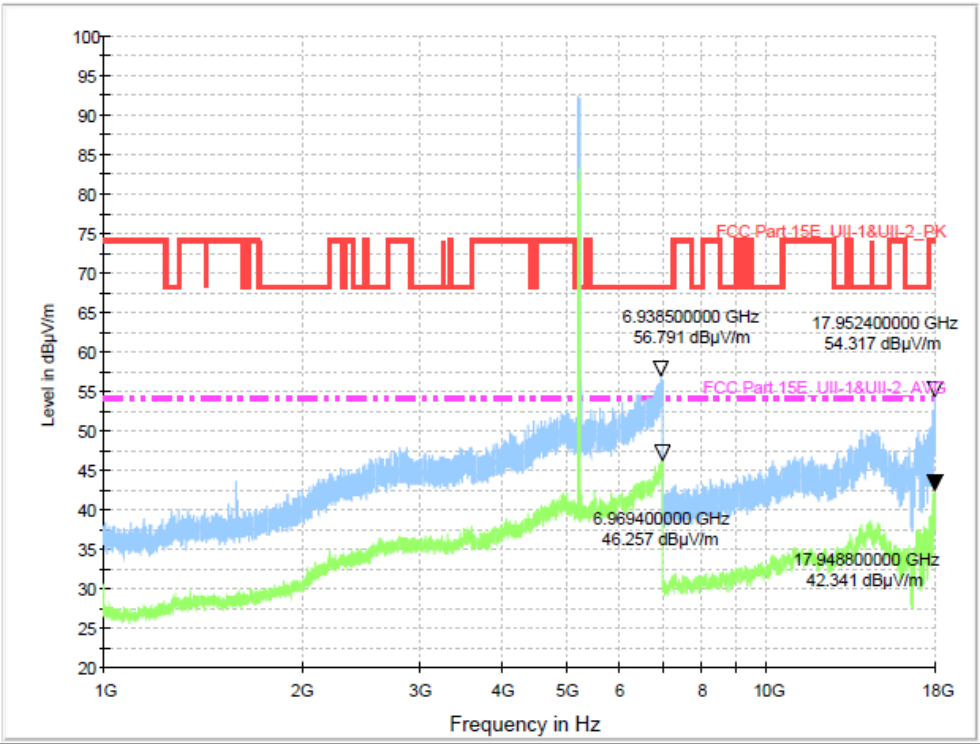
ax20 5240MHz



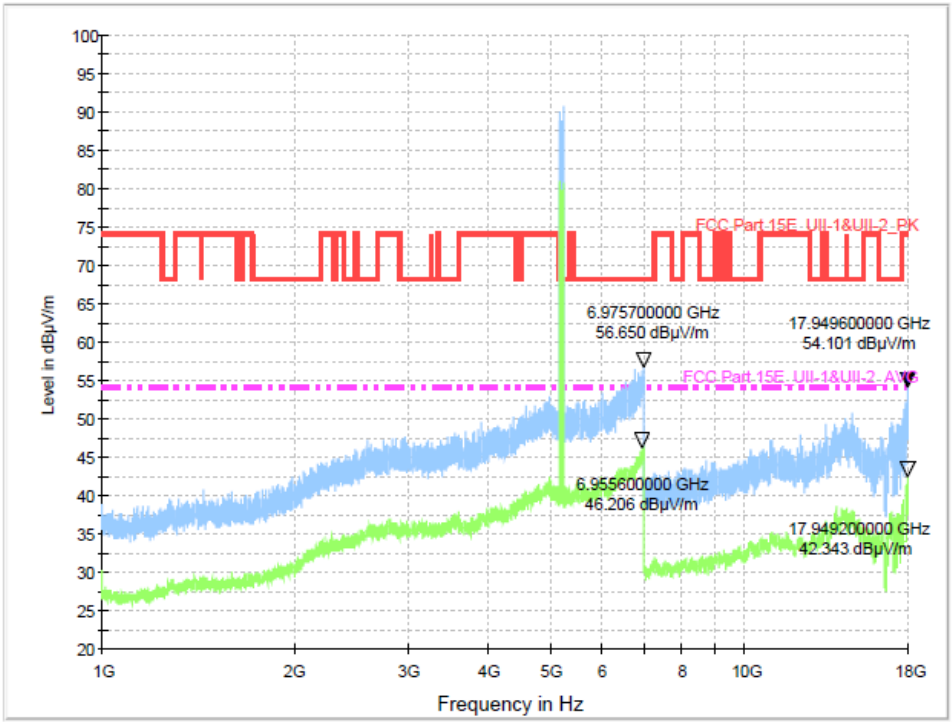
ax40 5190MHz



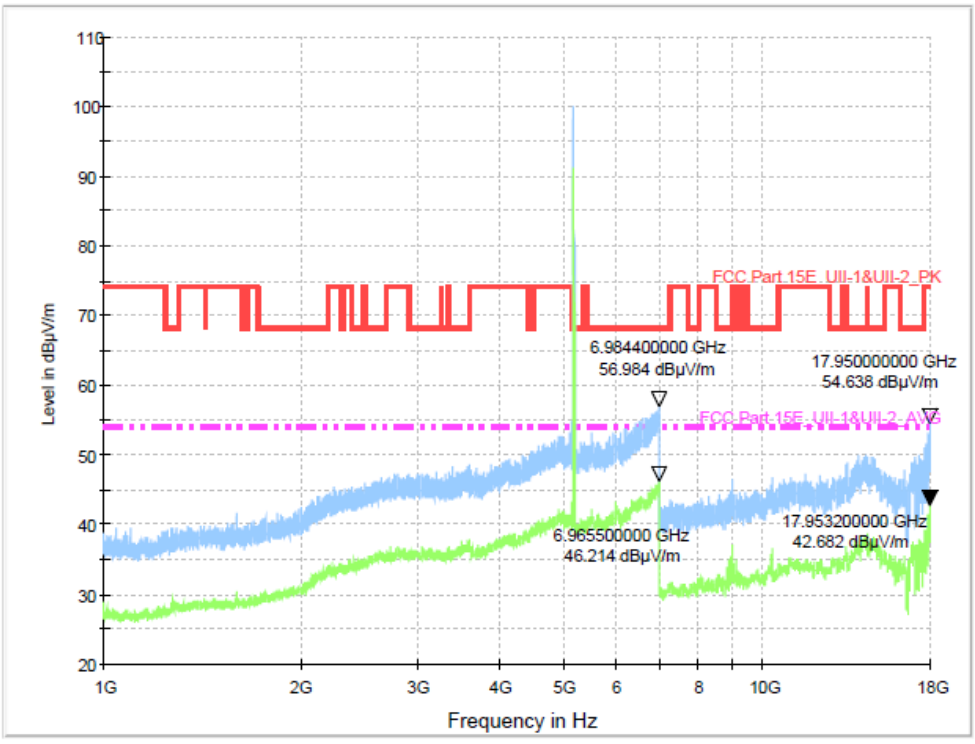
ax40 5230MHz



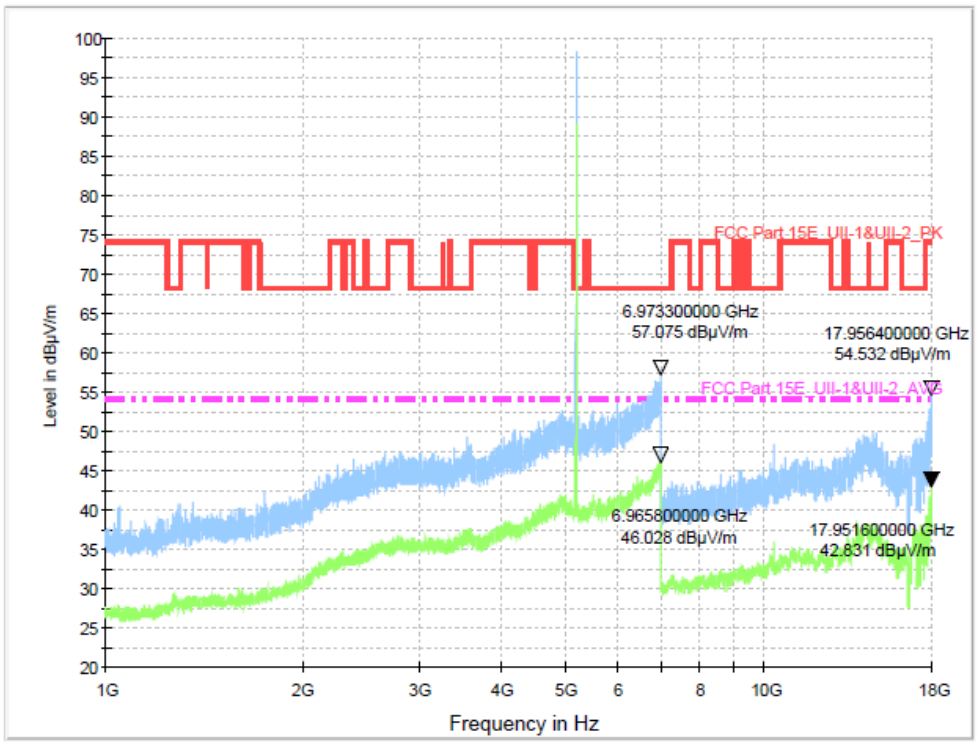
ax80 5210MHz



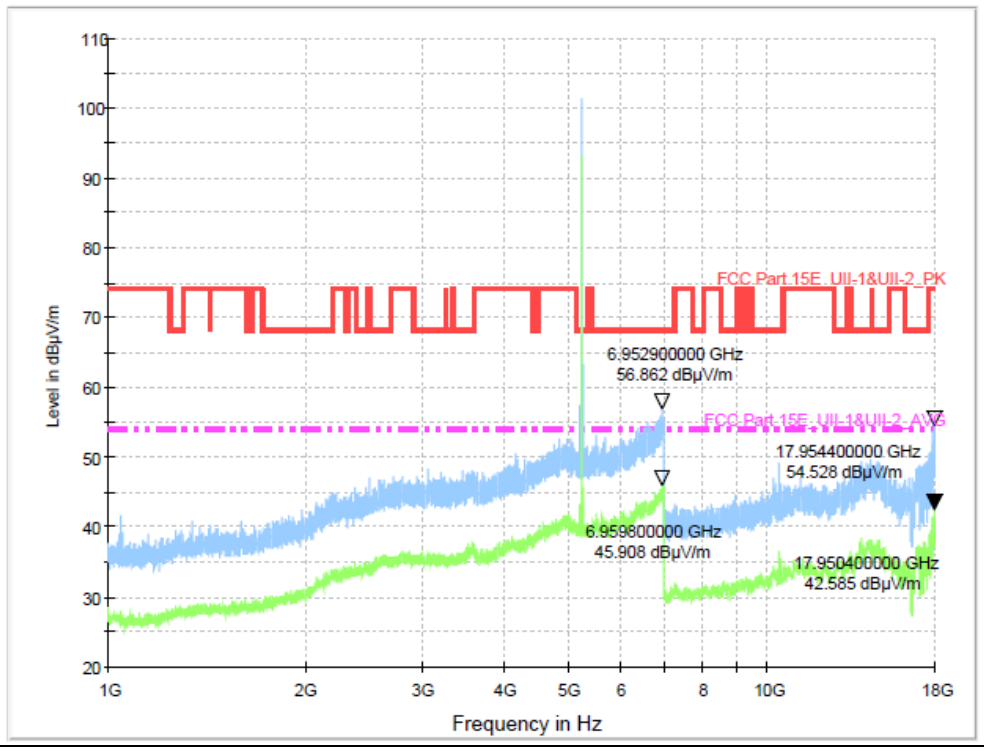
n20 5180MHz



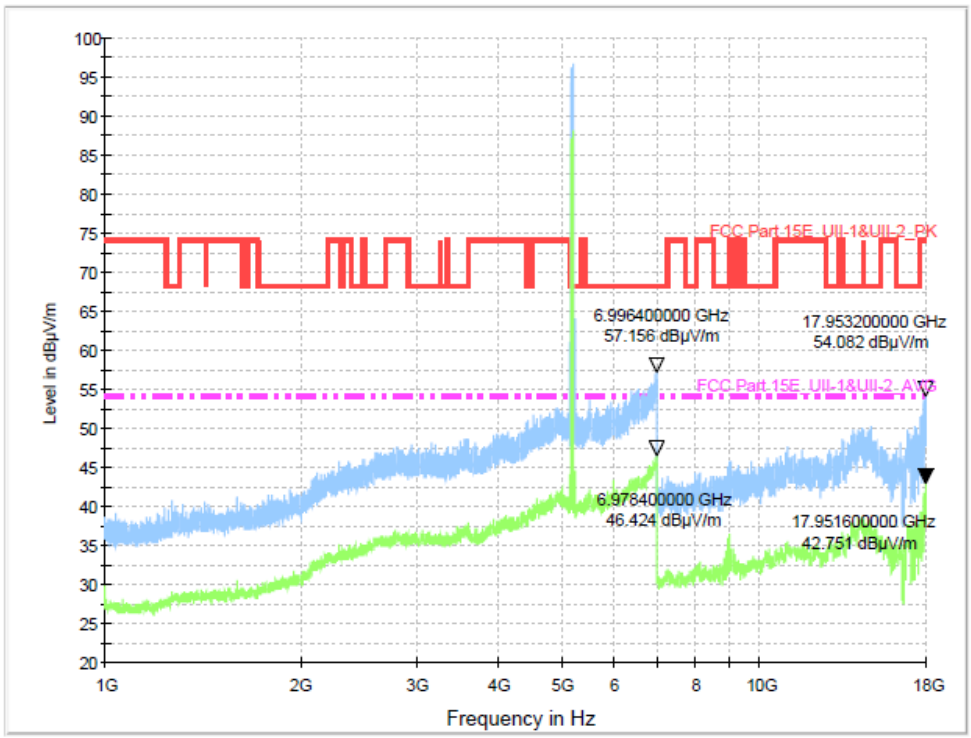
n20 5200MHz



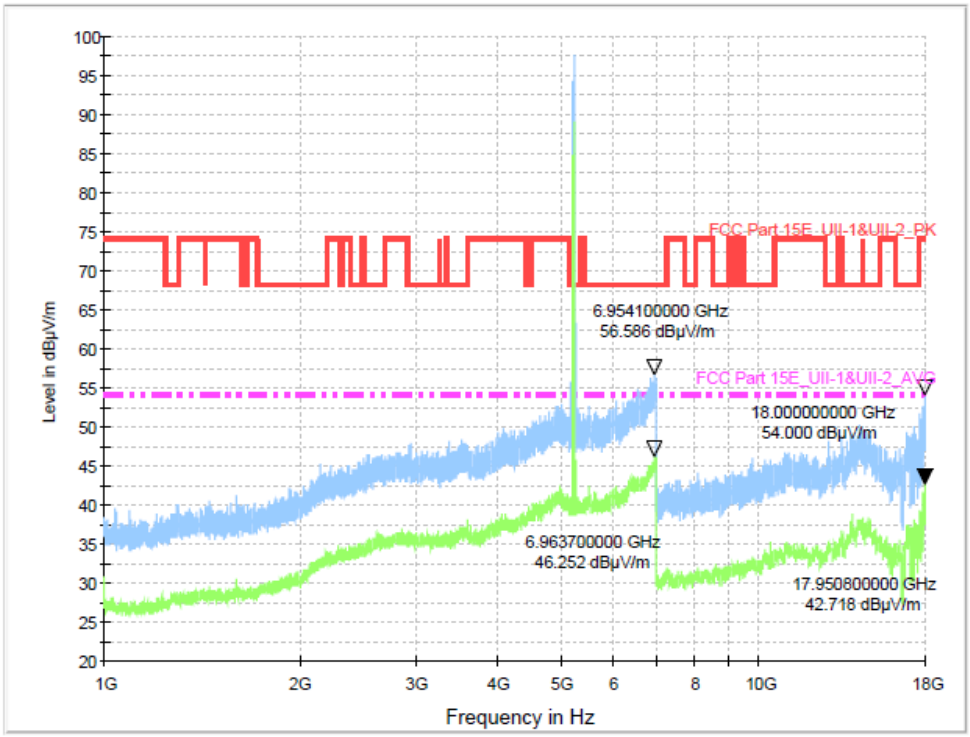
n20 5240MHz



n40 5190MHz



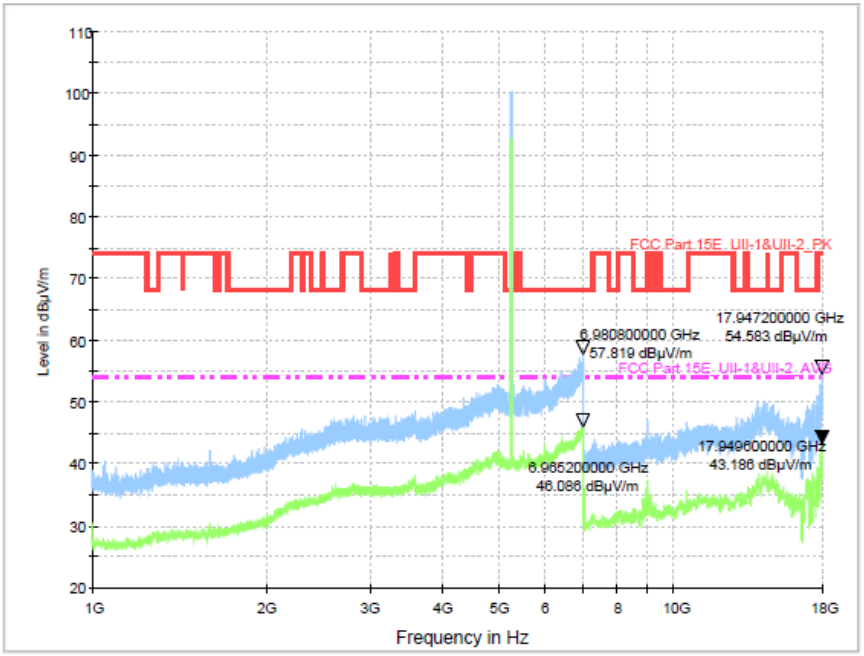
n40 5230MHz



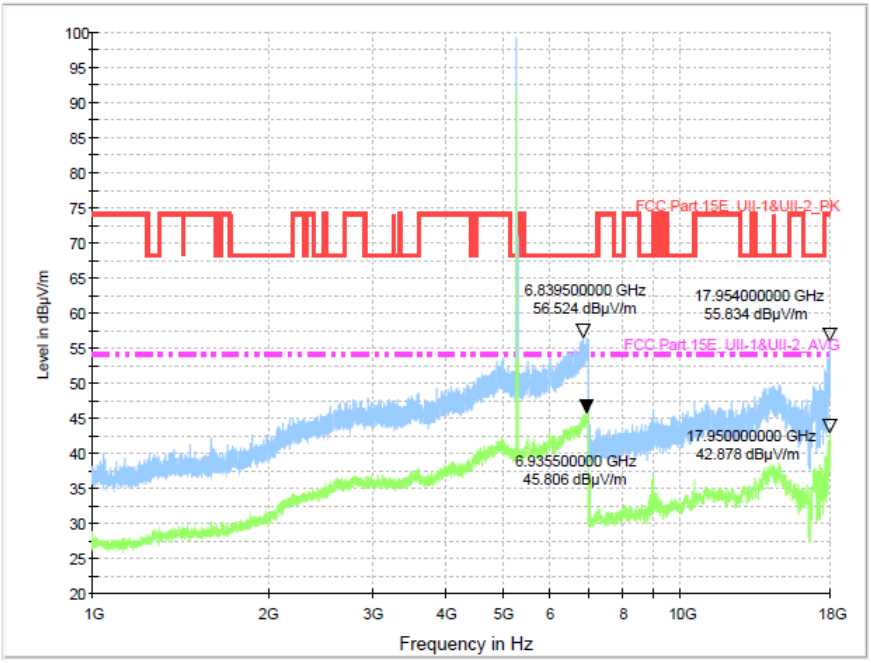
Note: 1. Except for mode a, other modes test the MIMO status.

Band2

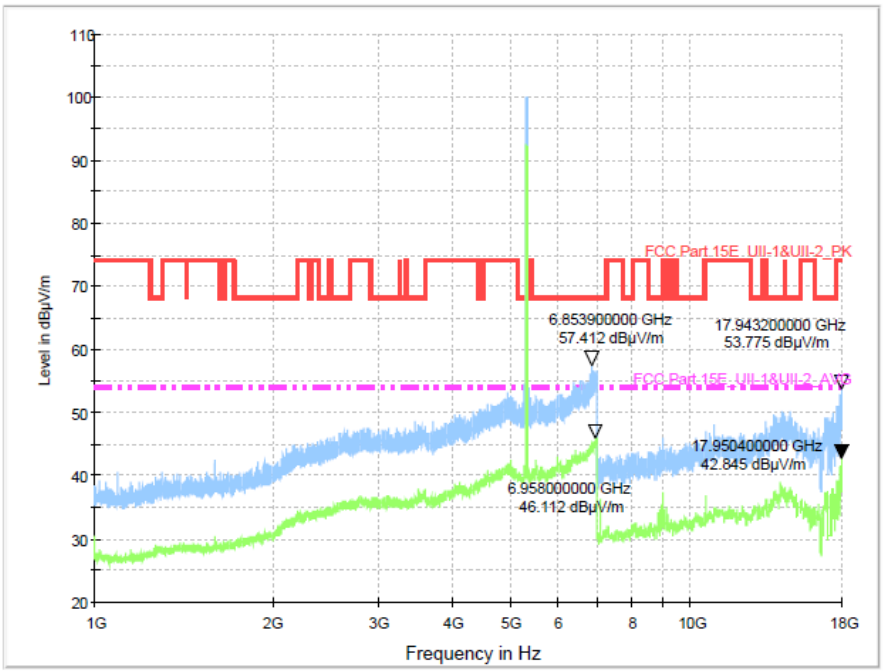
a 5260MHz



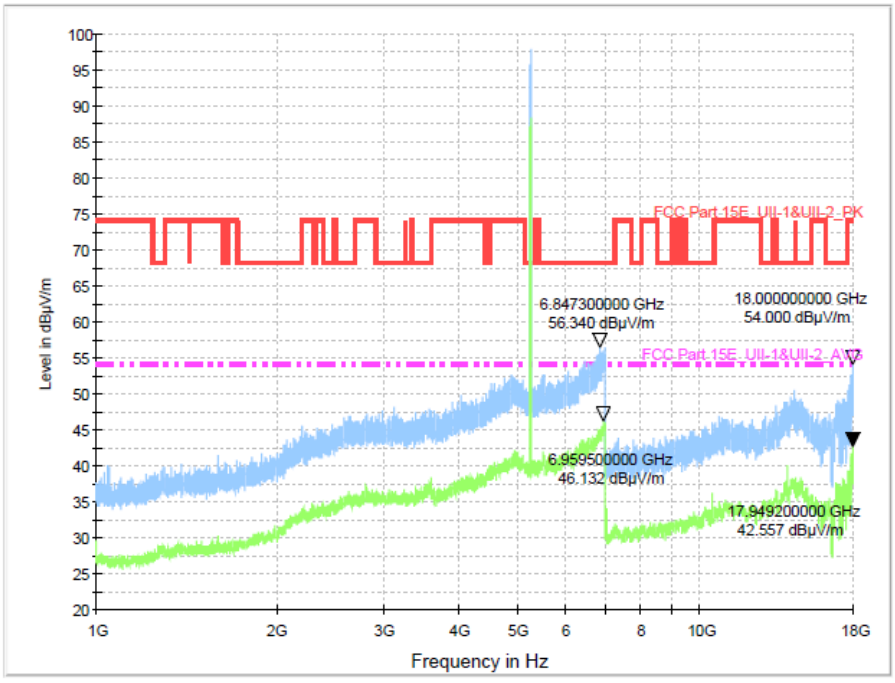
a 5280MHz



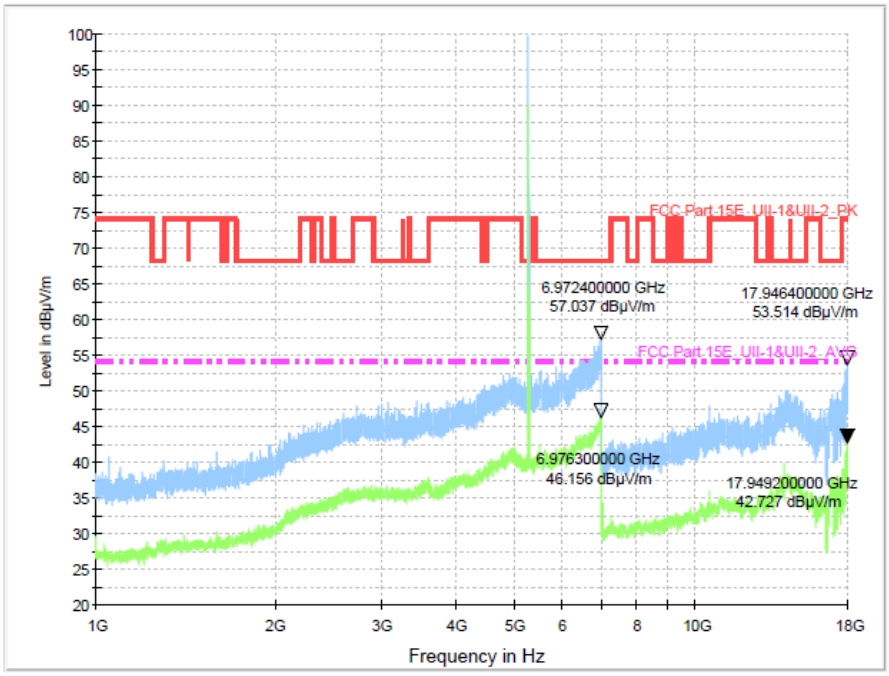
a 5320MHz



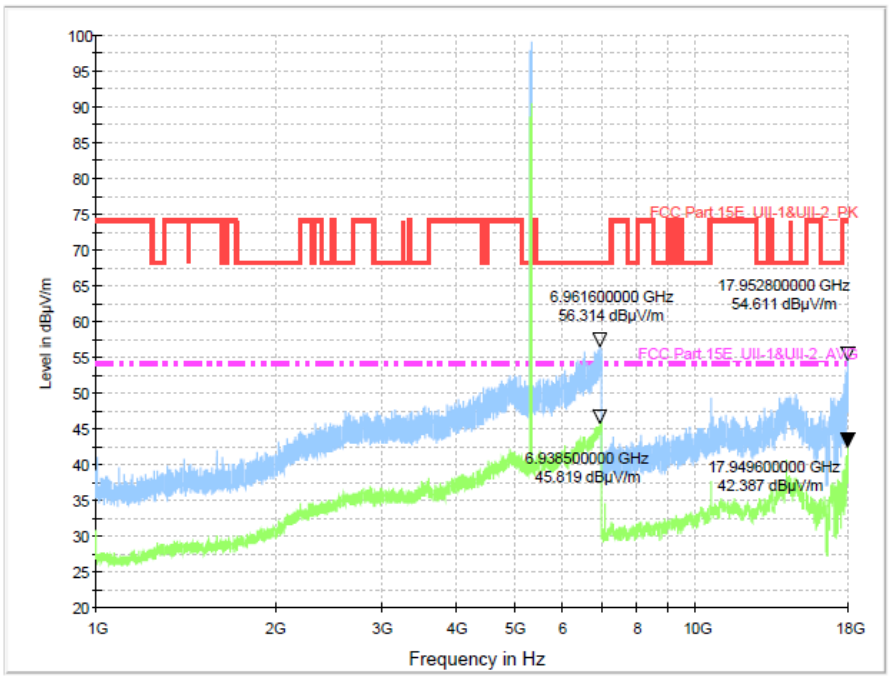
ac20 5260MHz



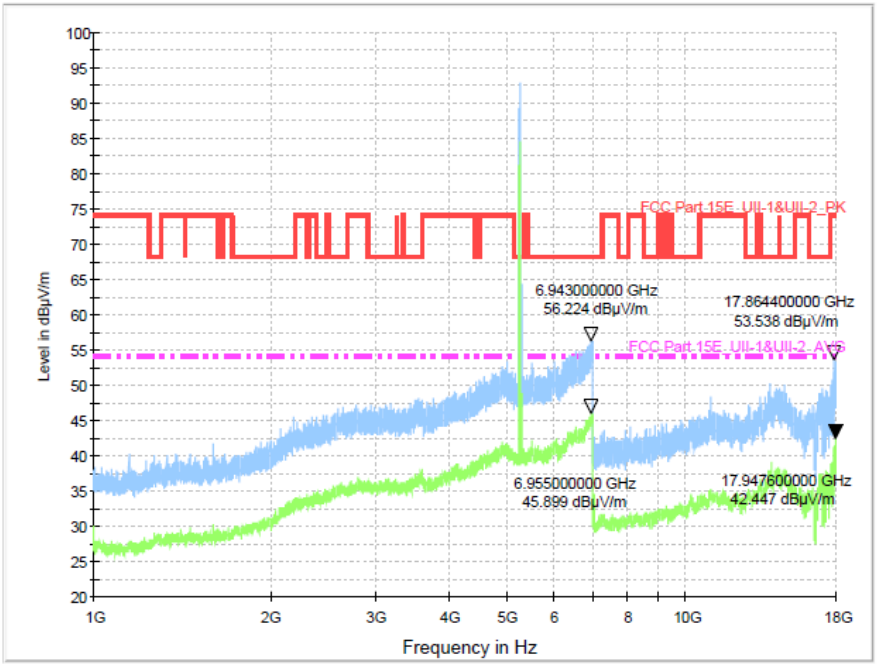
ac20 5280MHz



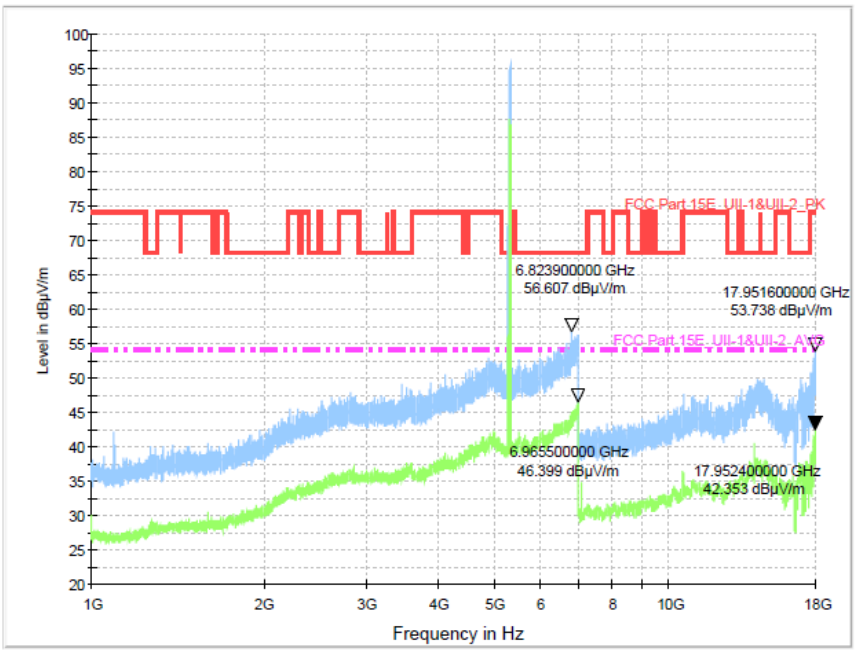
ac20 5320MHz



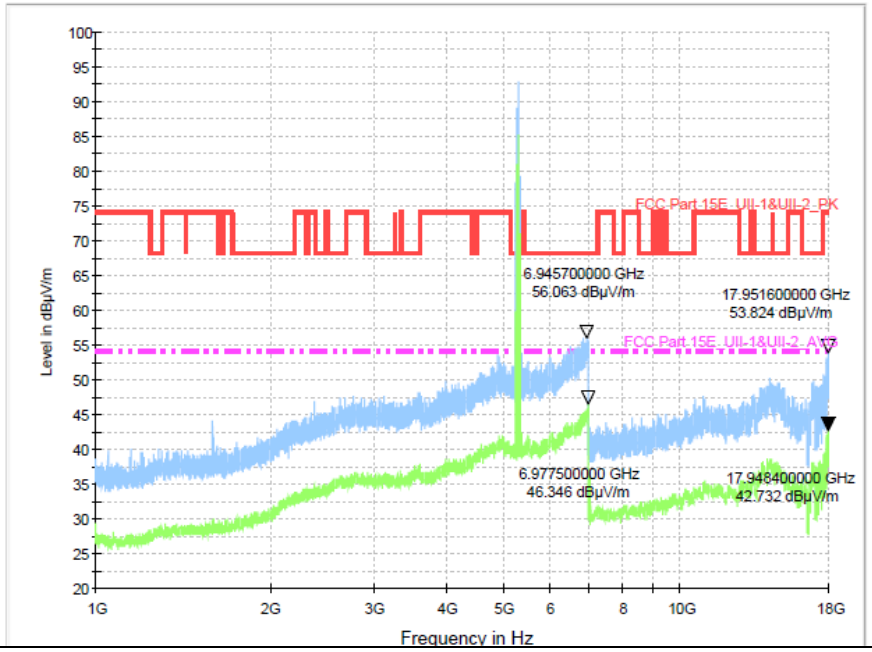
ac40 5270MHz



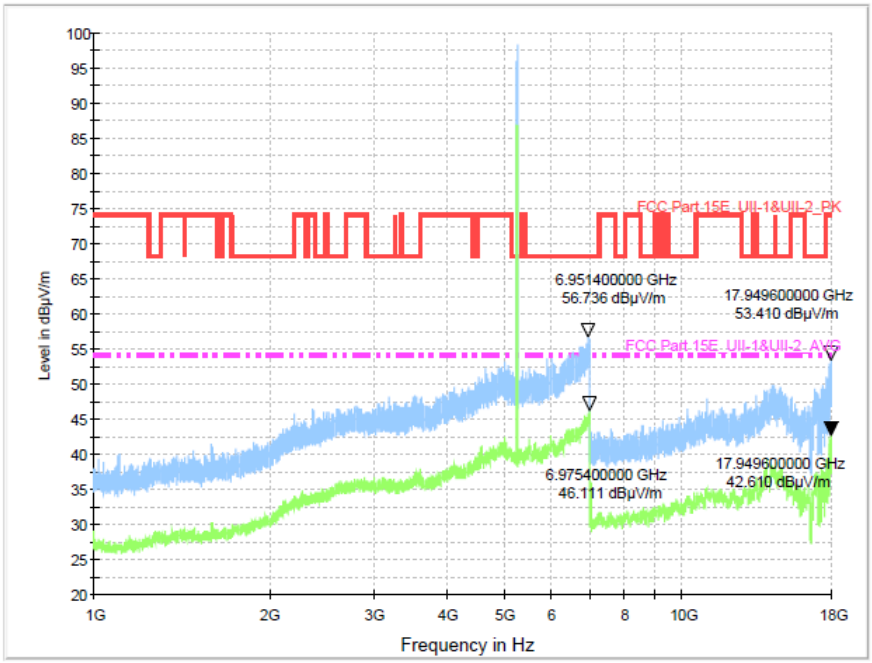
ac40 5310MHz



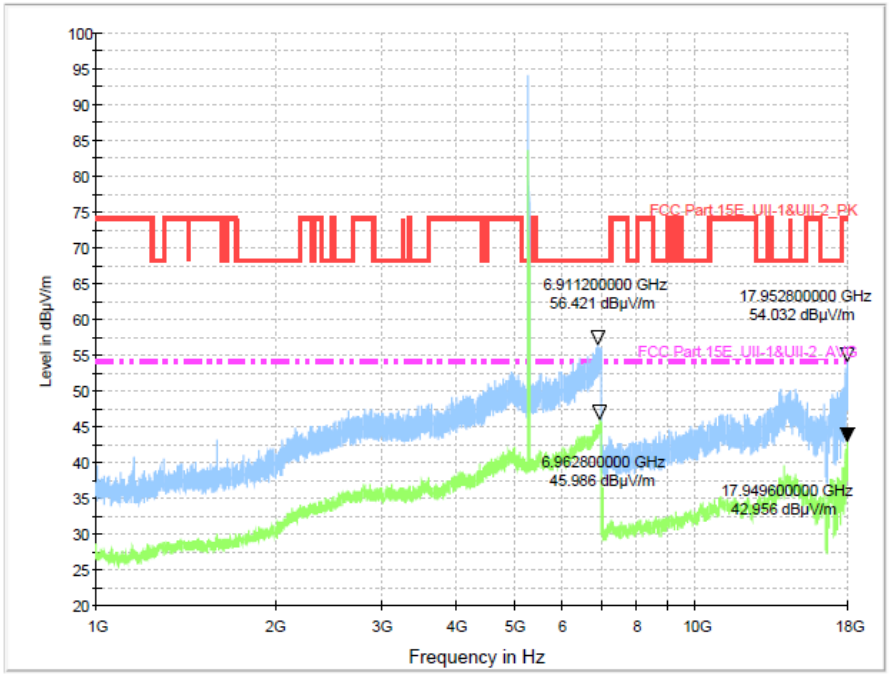
ac80 5290MHz



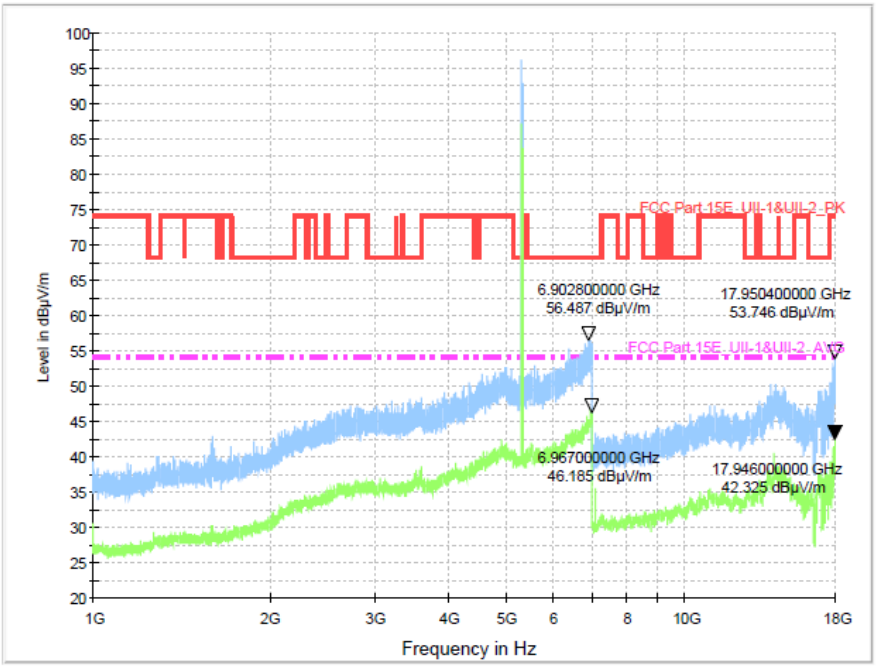
ax20 5260MHz



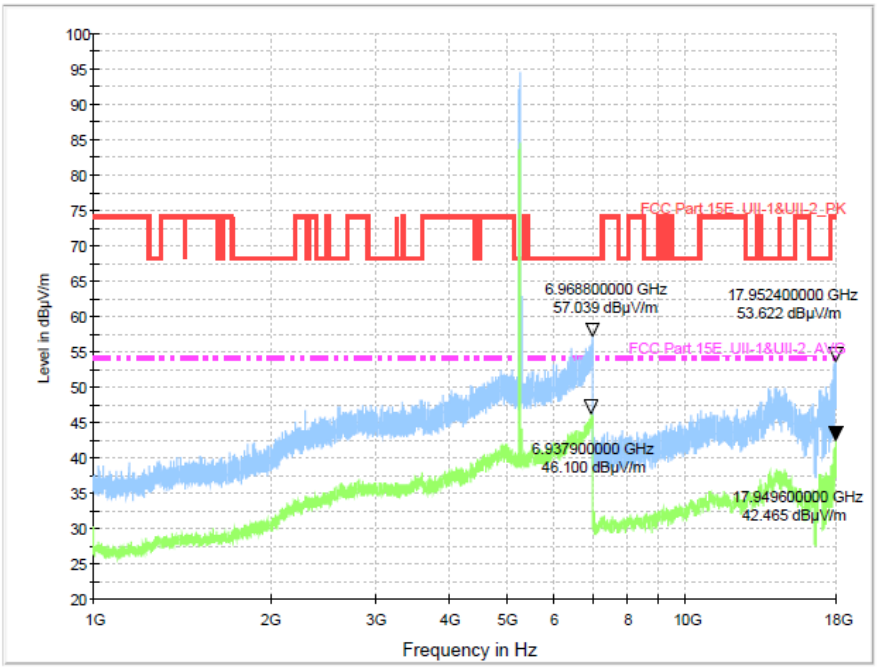
ax20 5280MHz



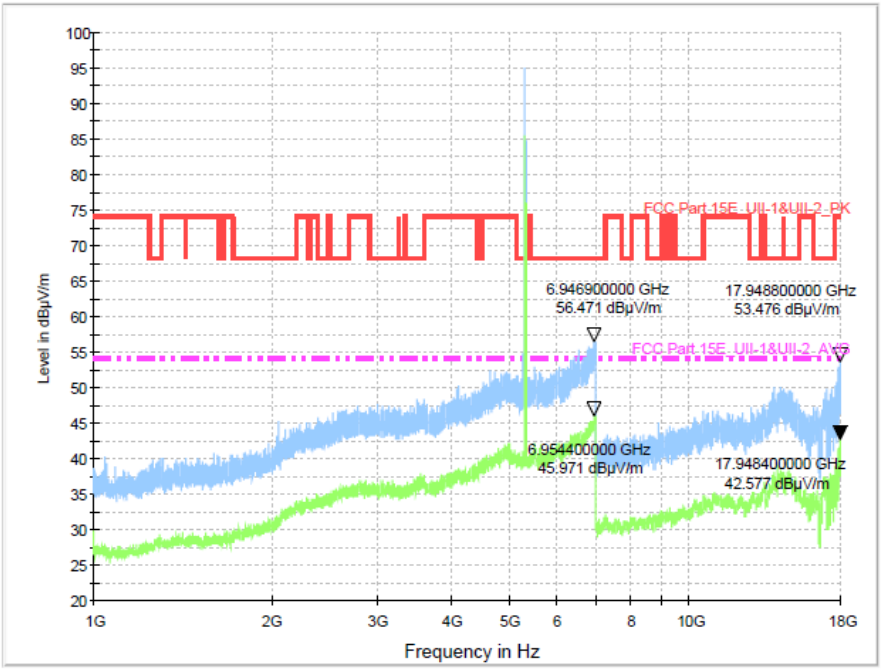
ax20 5320MHz



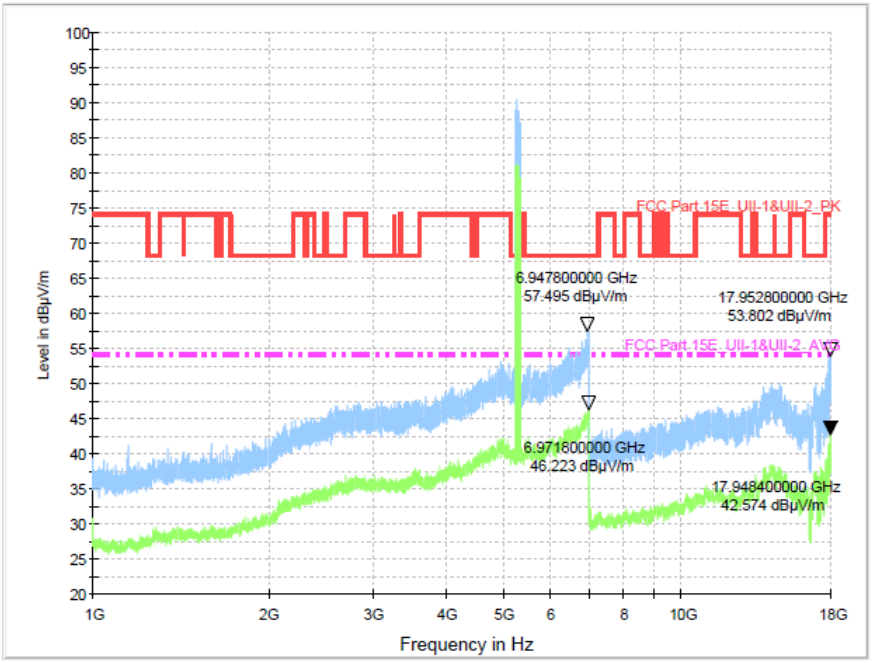
ax40 5270MHz



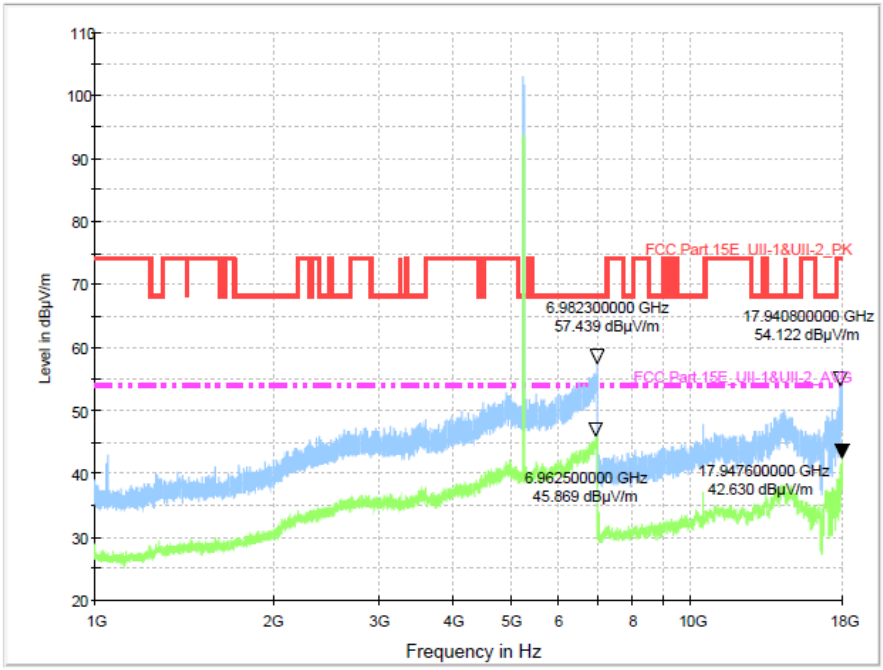
ax40 5310MHz



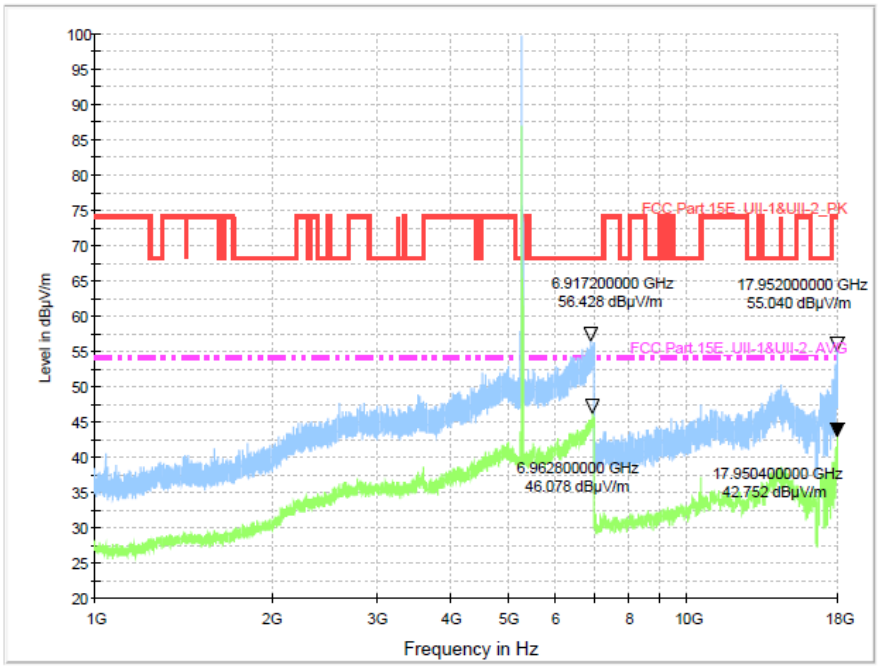
ax80 5290MHz



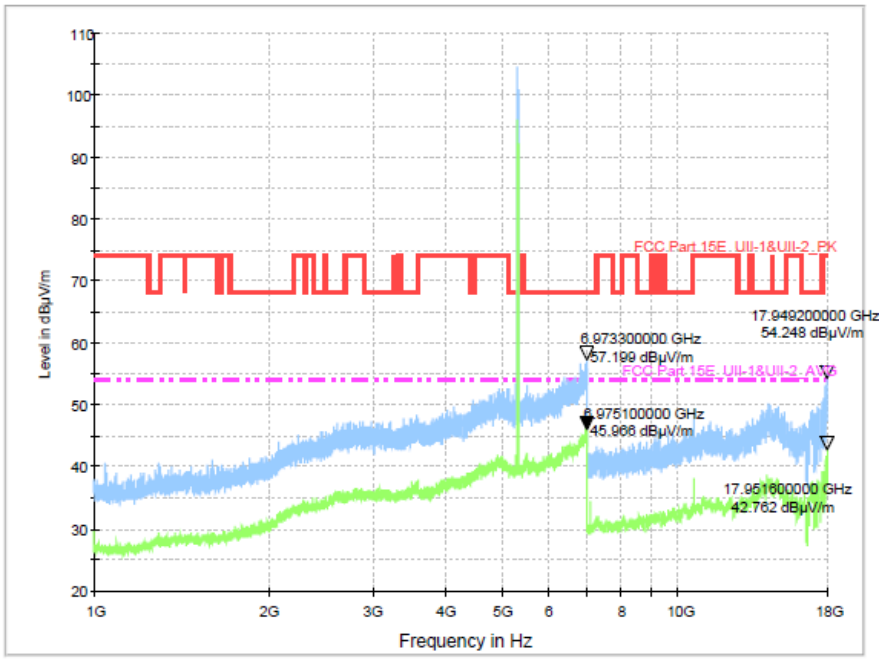
n20 5260MHz



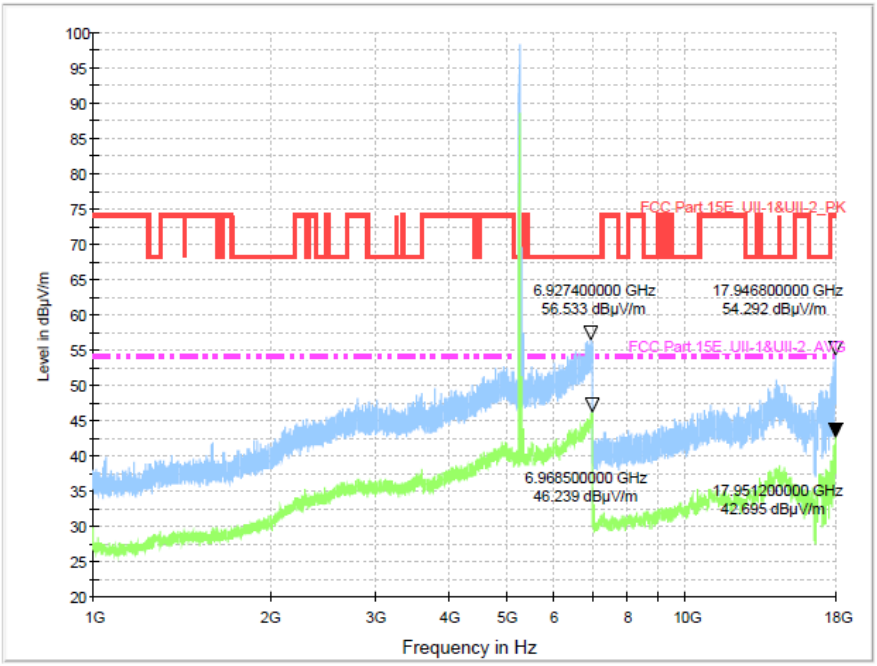
n20 5280MHz



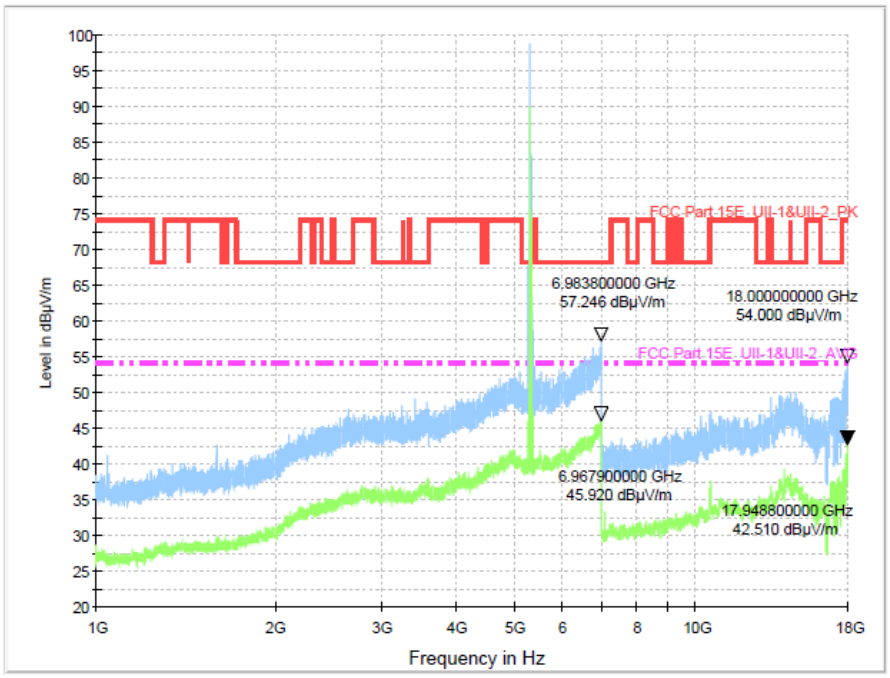
n20 5320MHz



n40 5270MHz



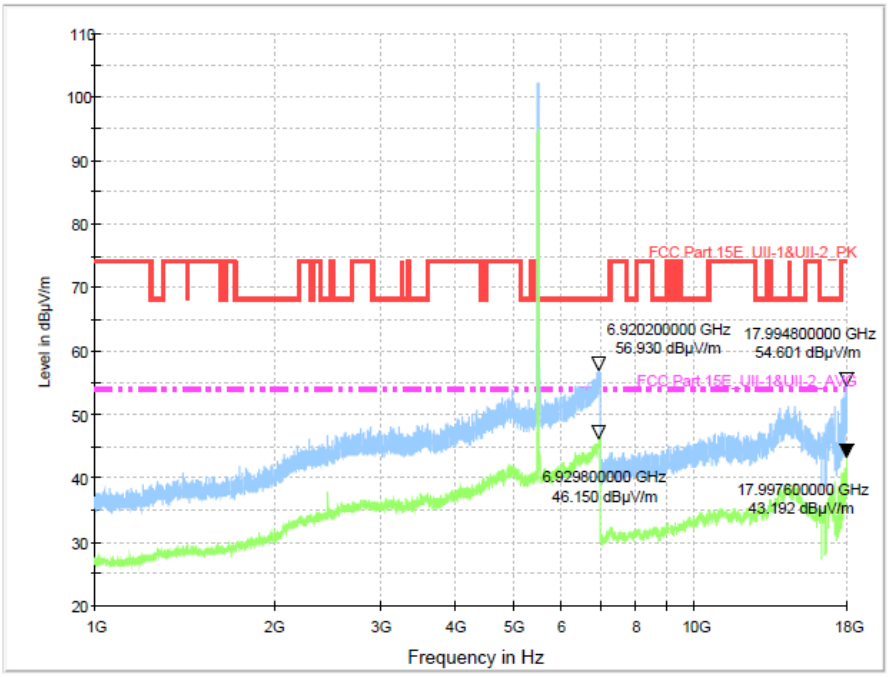
n40 5310MHz



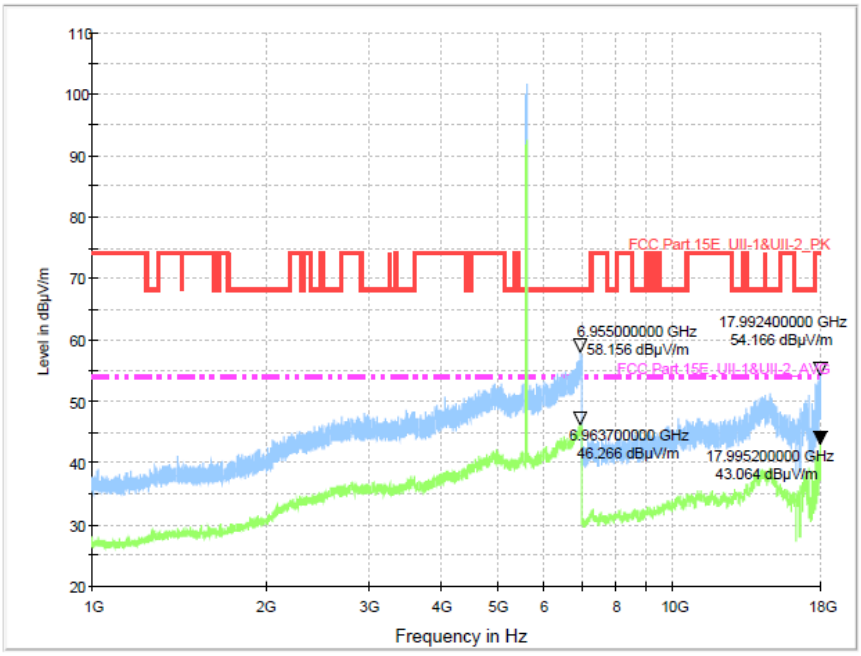
Note: 1. Except for mode a, other modes test the MIMO status.

Band3

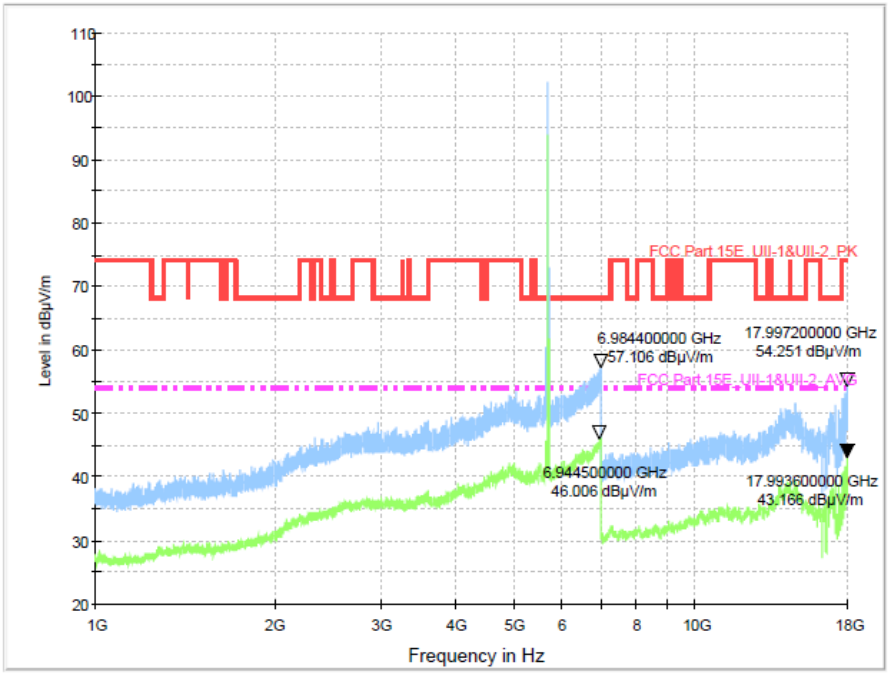
a 5500MHz



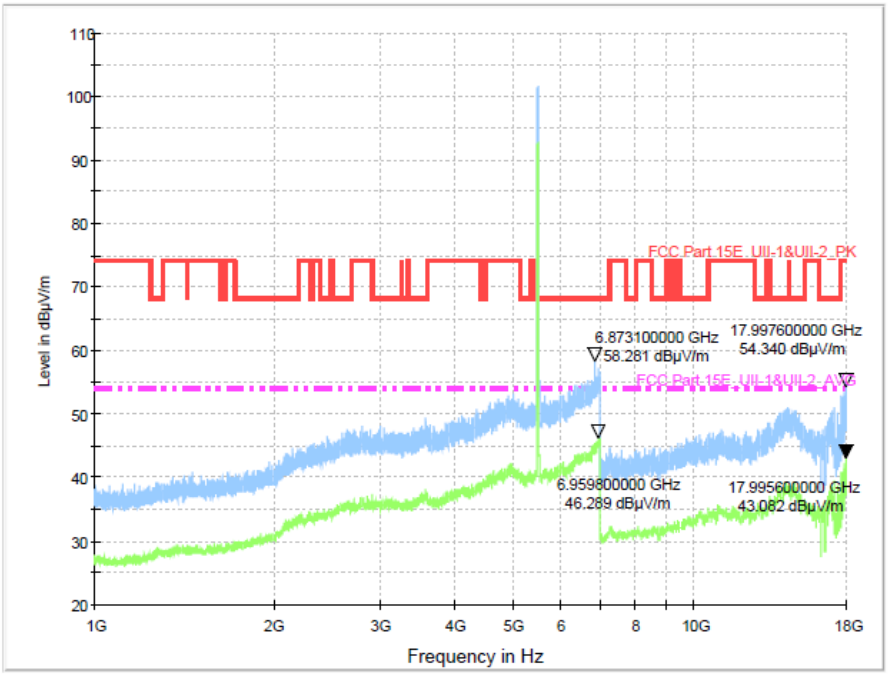
a 5580MHz



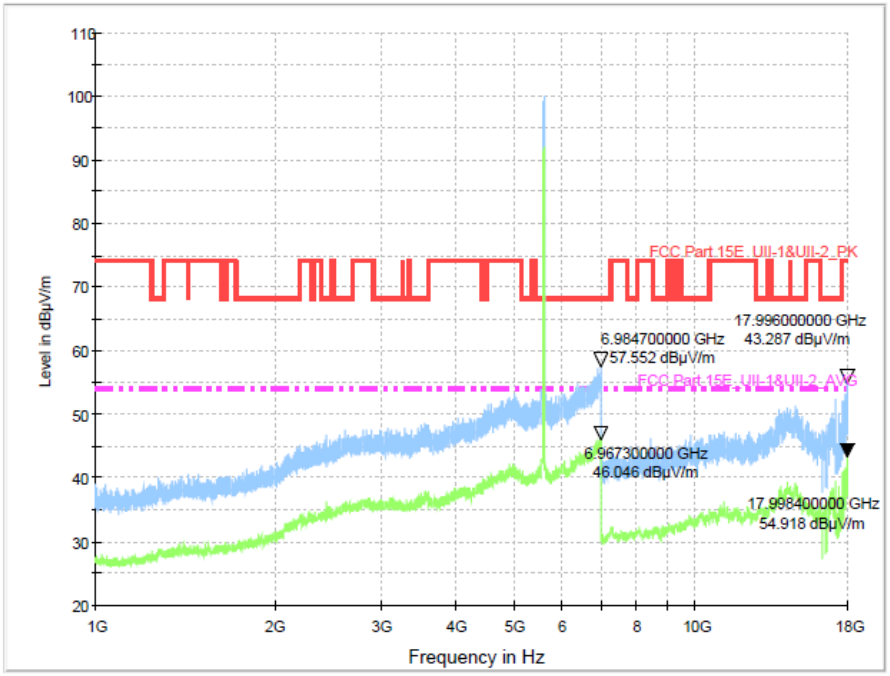
a 5700MHz



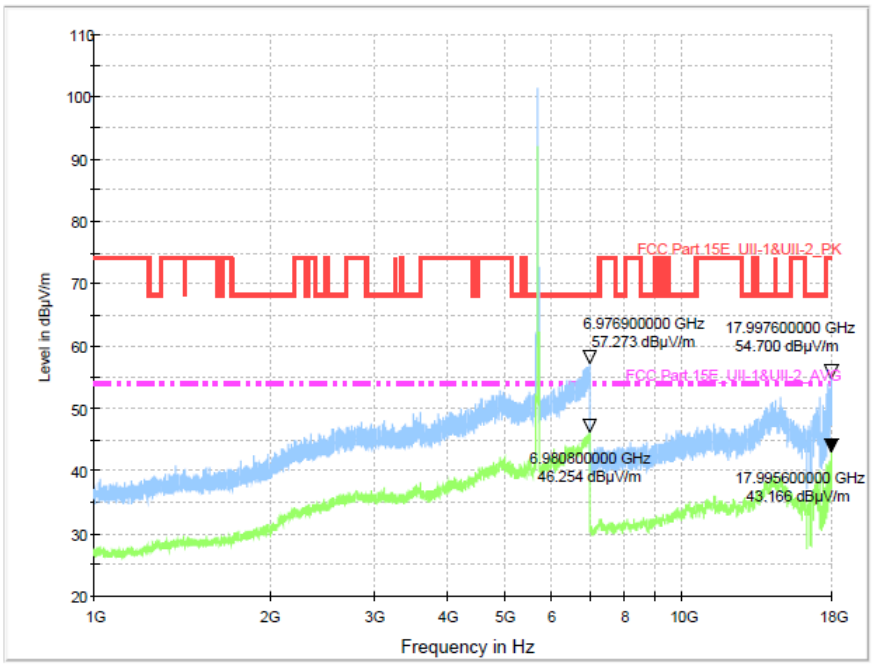
ac20 5500MHz



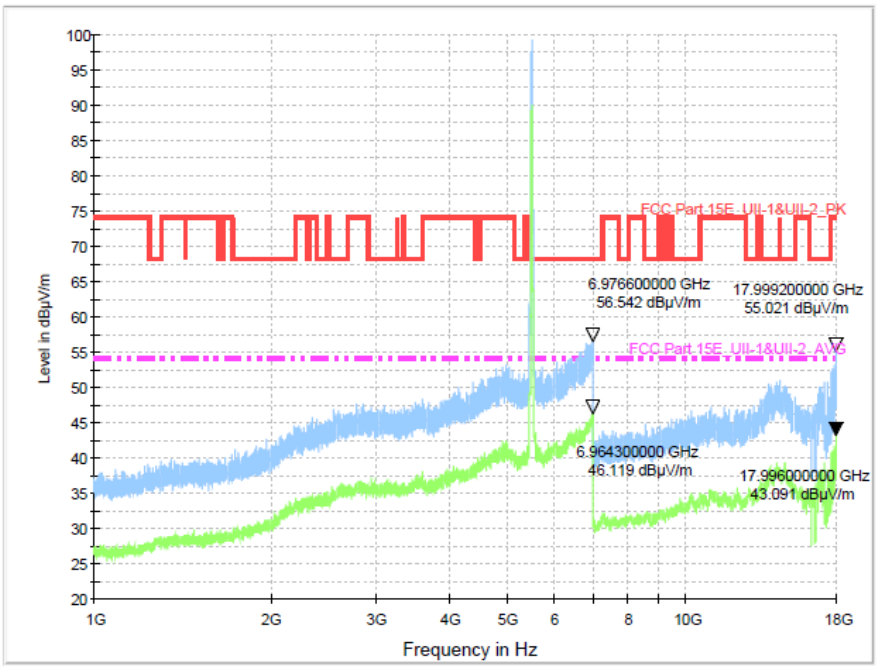
ac20 5580MHz



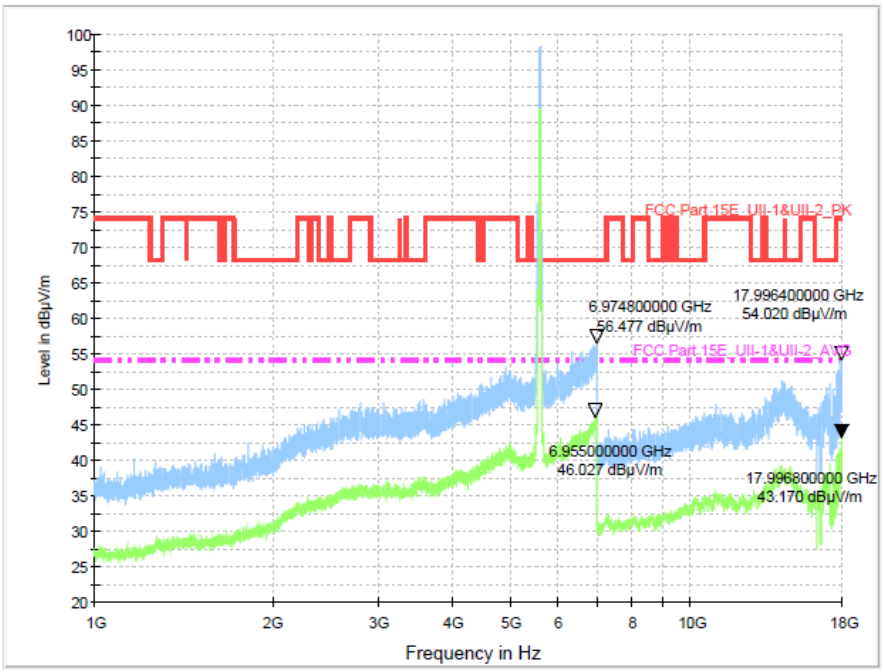
ac20 5700MHz



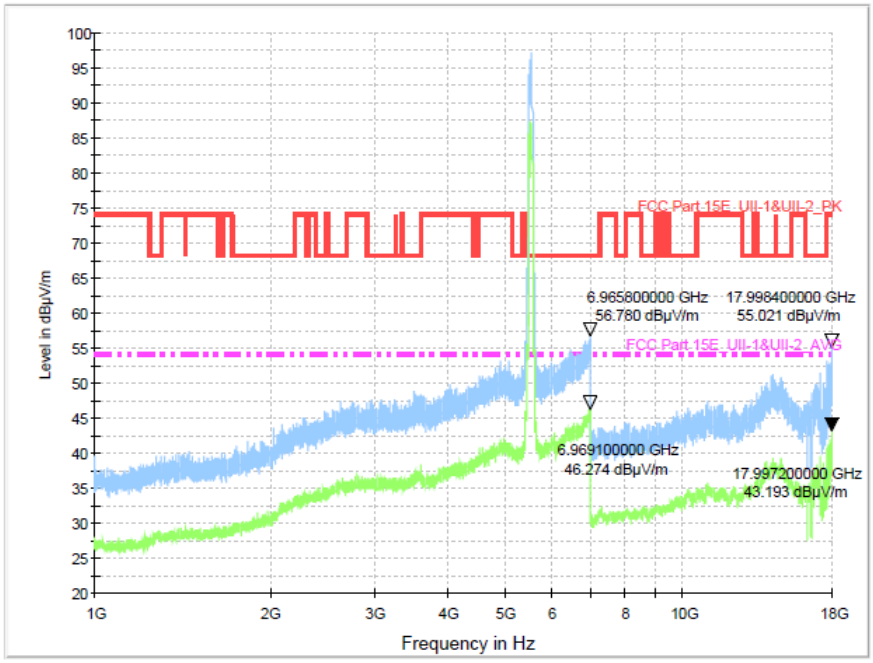
ac40 5510MHz



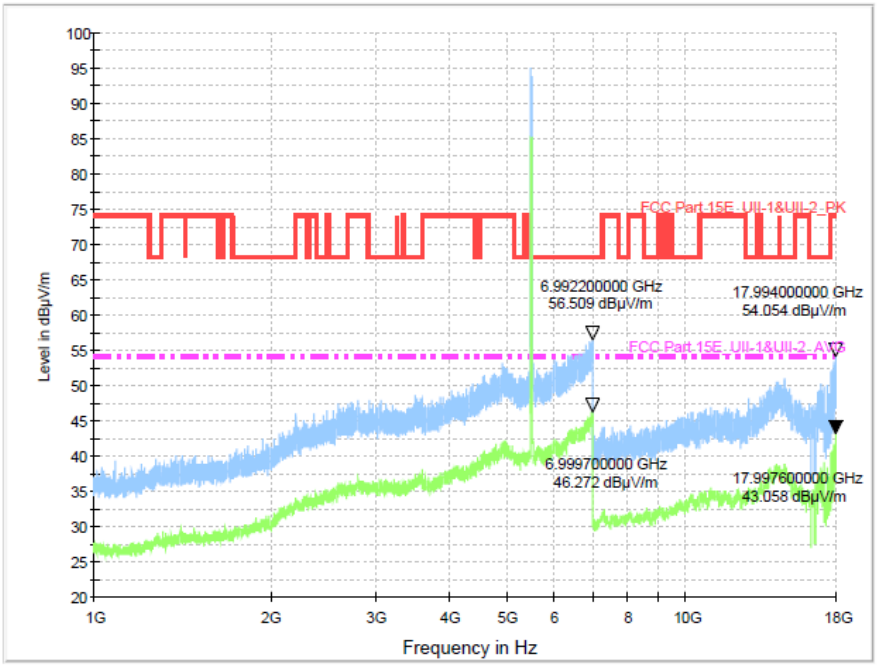
ac40 5670MHz



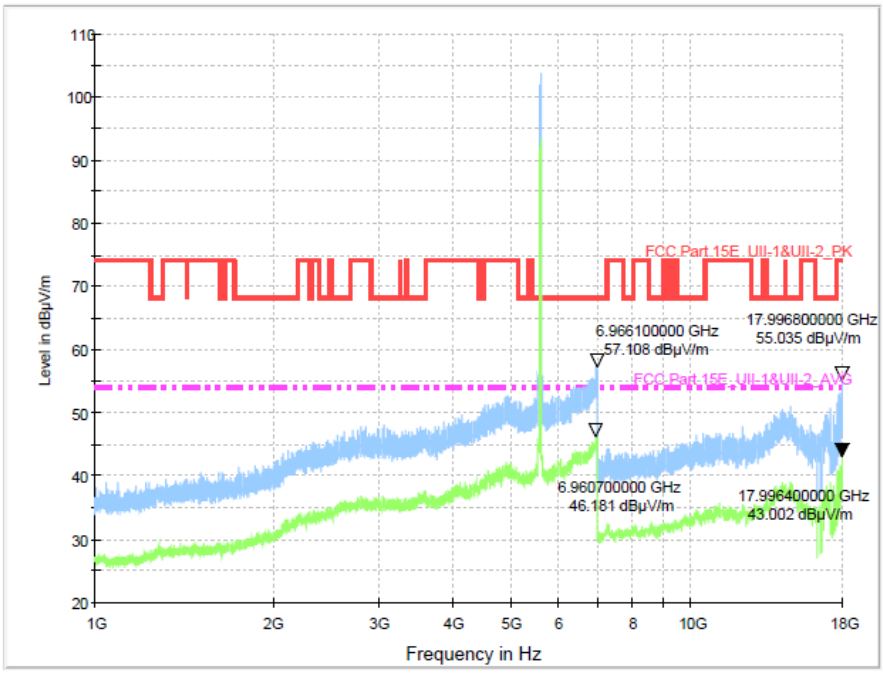
ac80 5530MHz



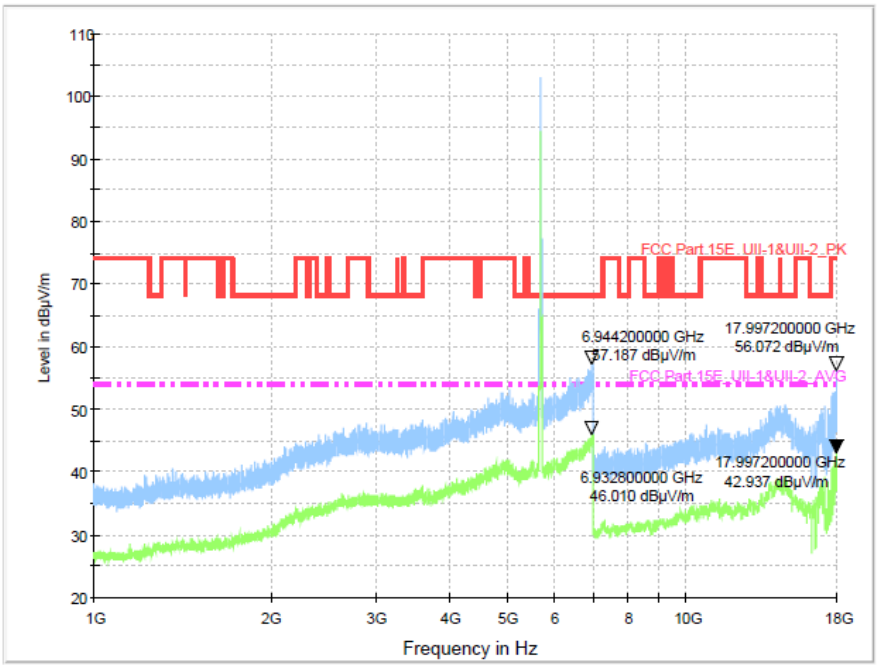
ax20 5500MHz



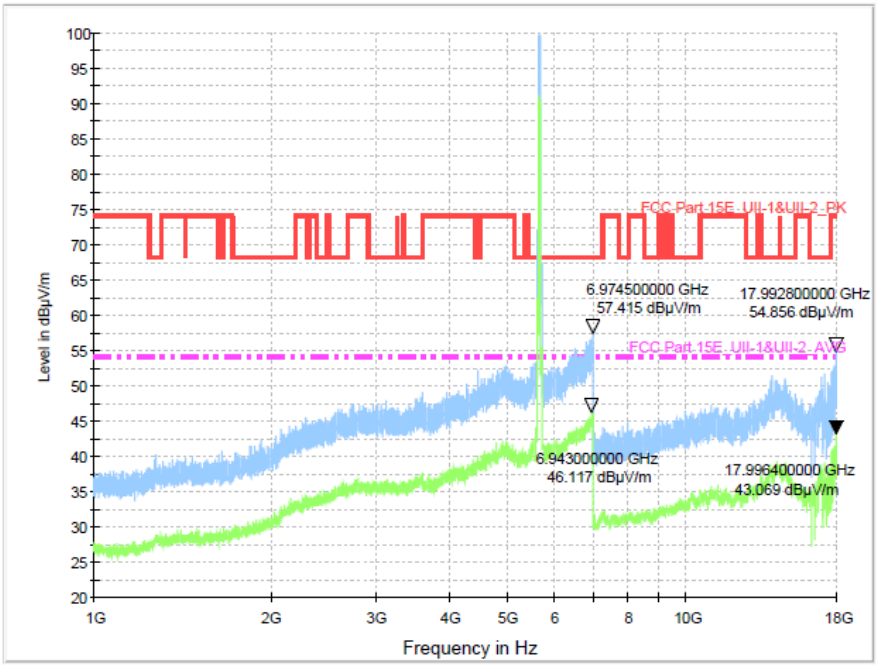
ax20 5580MHz



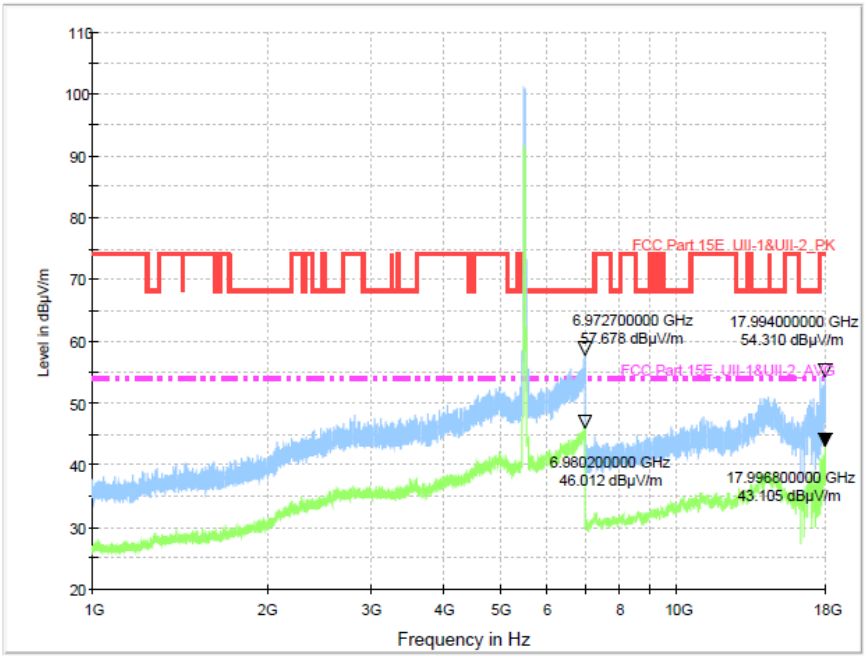
ax20 5700MHz



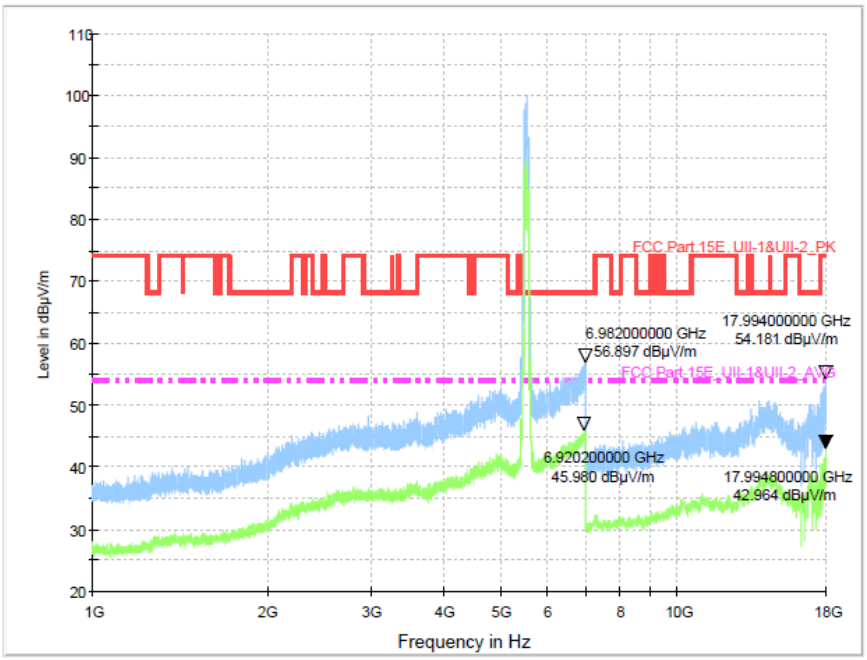
ax40 5510MHz



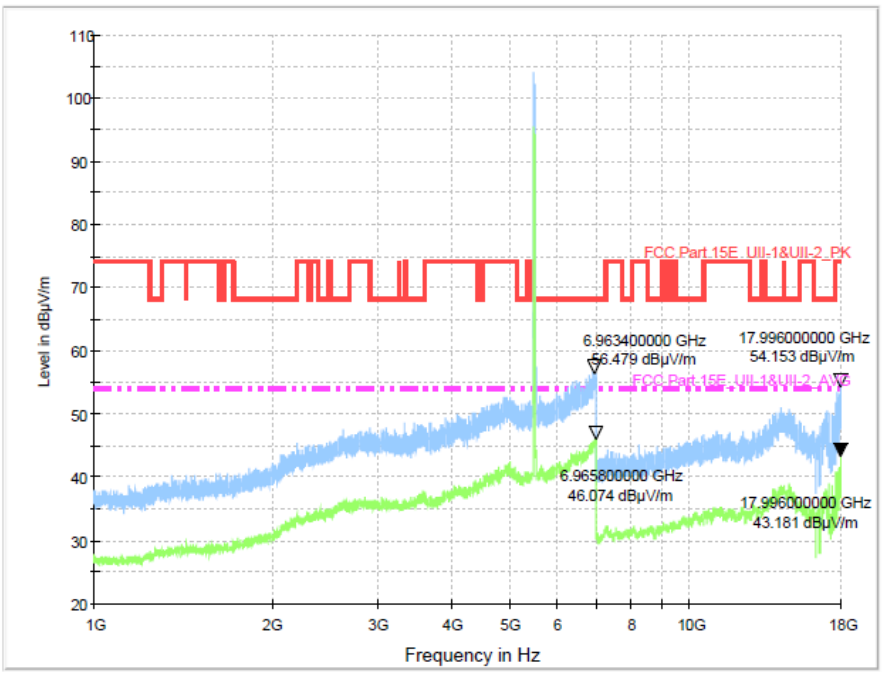
ax40 5670MHz



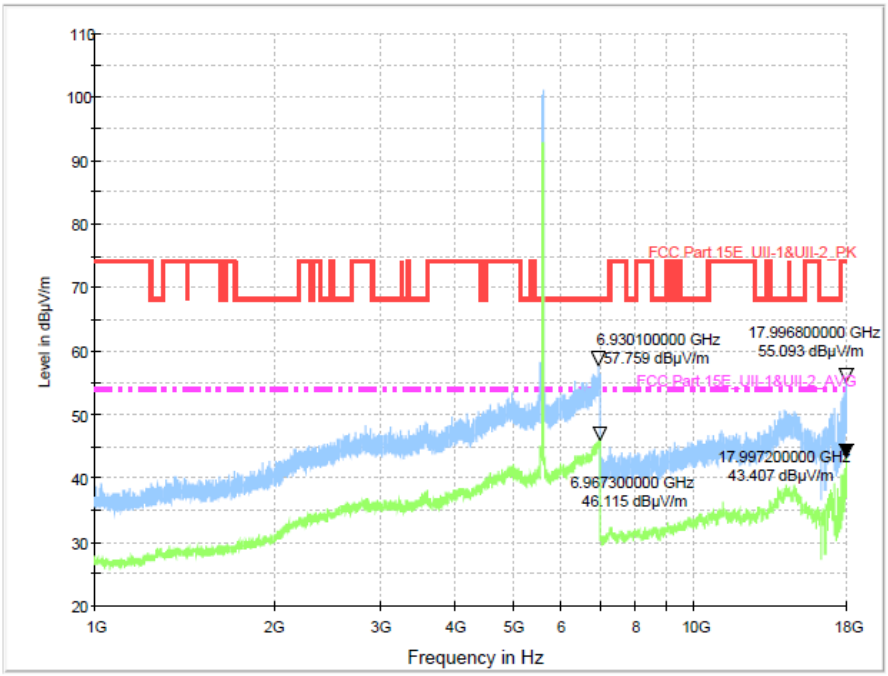
ax80 5530MHz



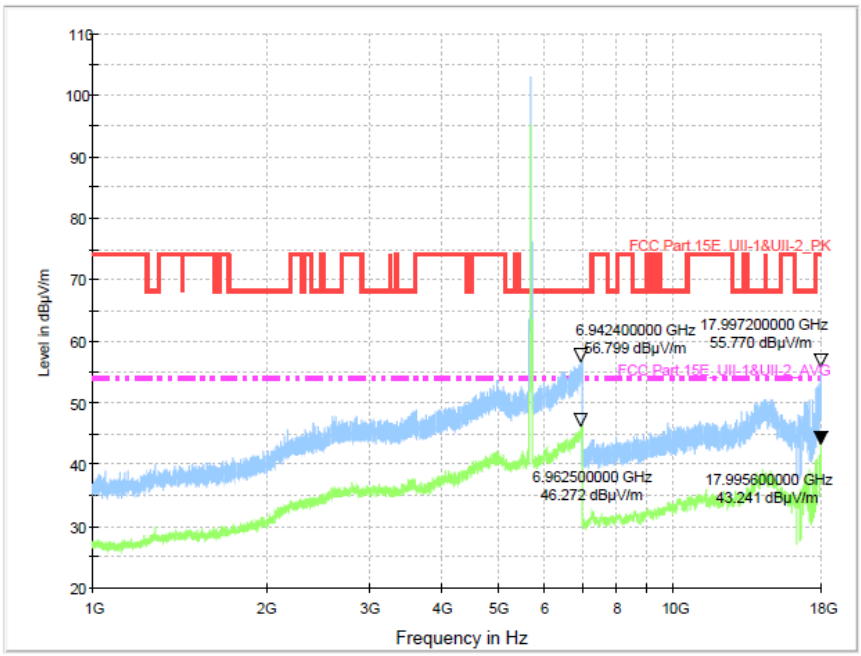
n20 5500MHz



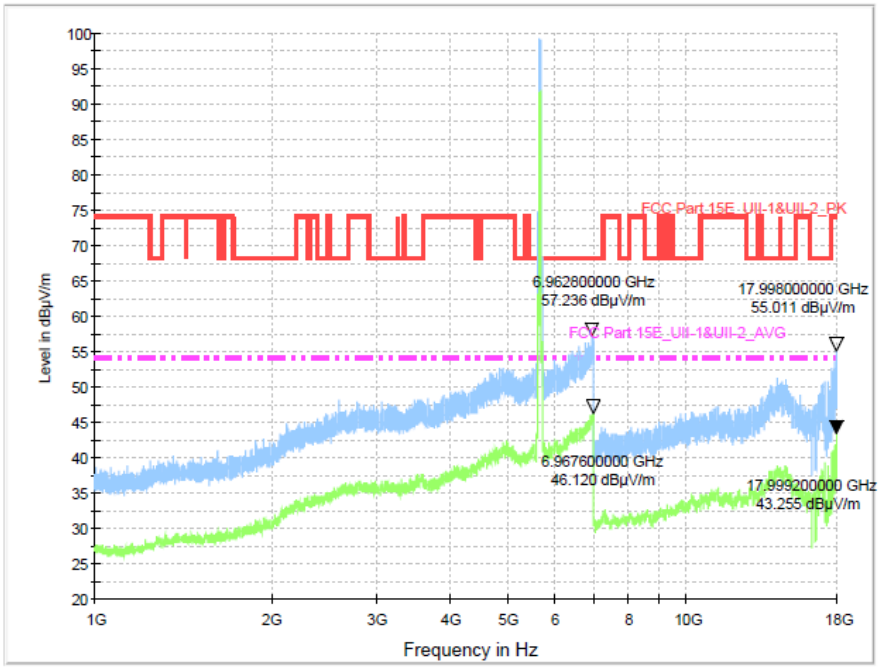
n20 5580MHz



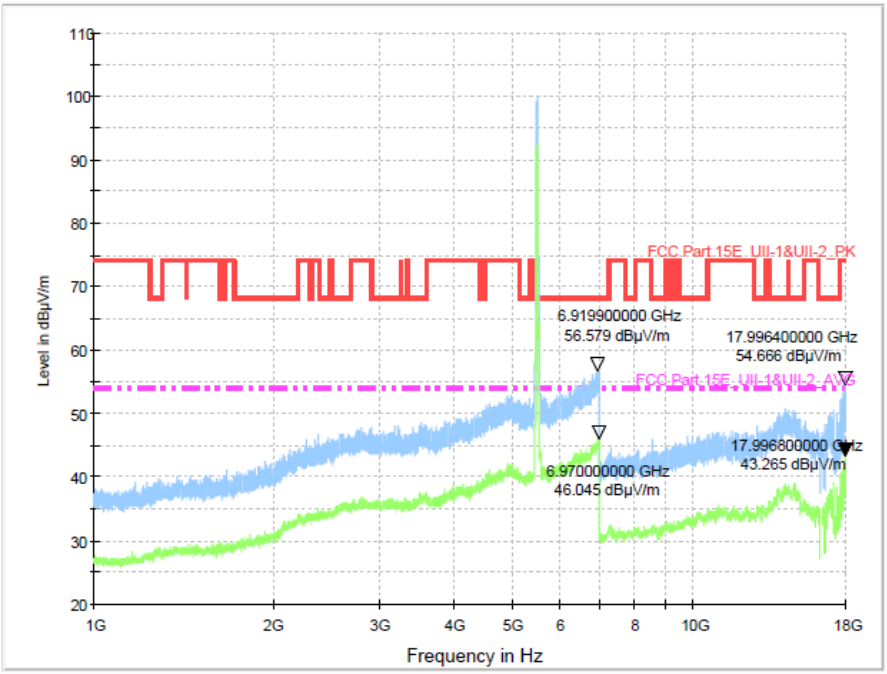
n20 5700MHz



n40 5510MHz



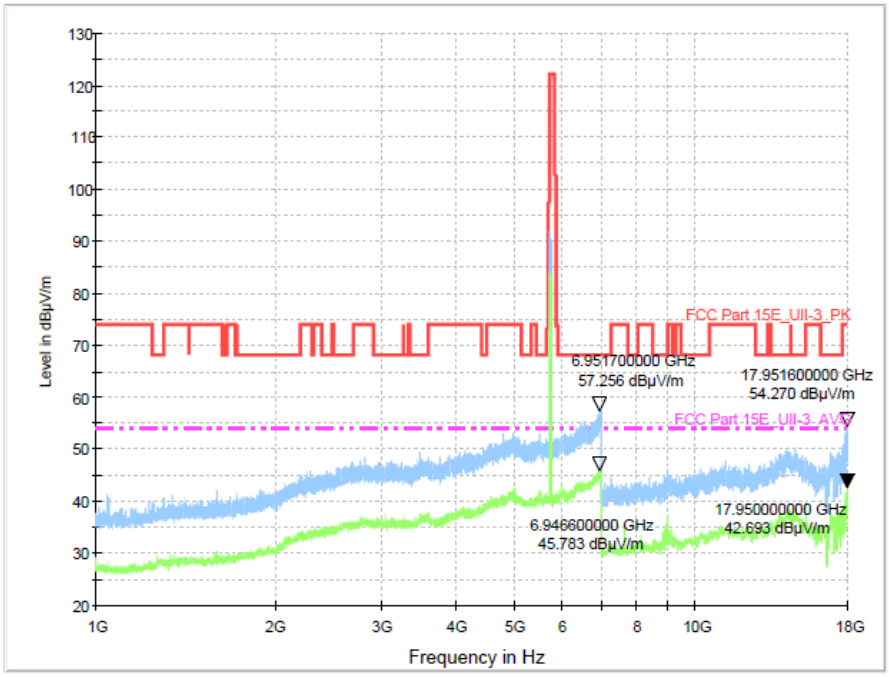
n40 5670MHz



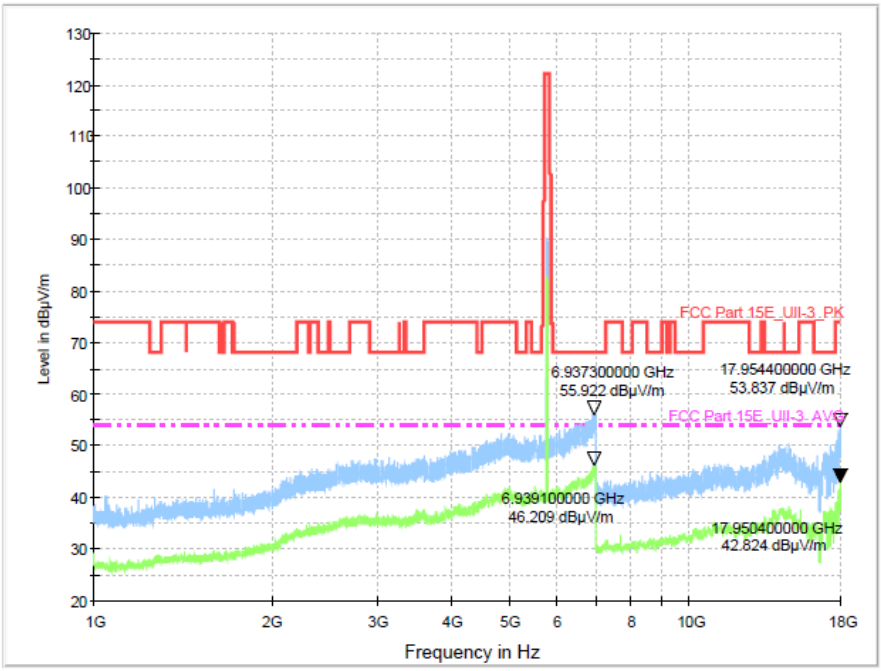
Note: 1. Except for mode a, other modes test the MIMO status.

Band4

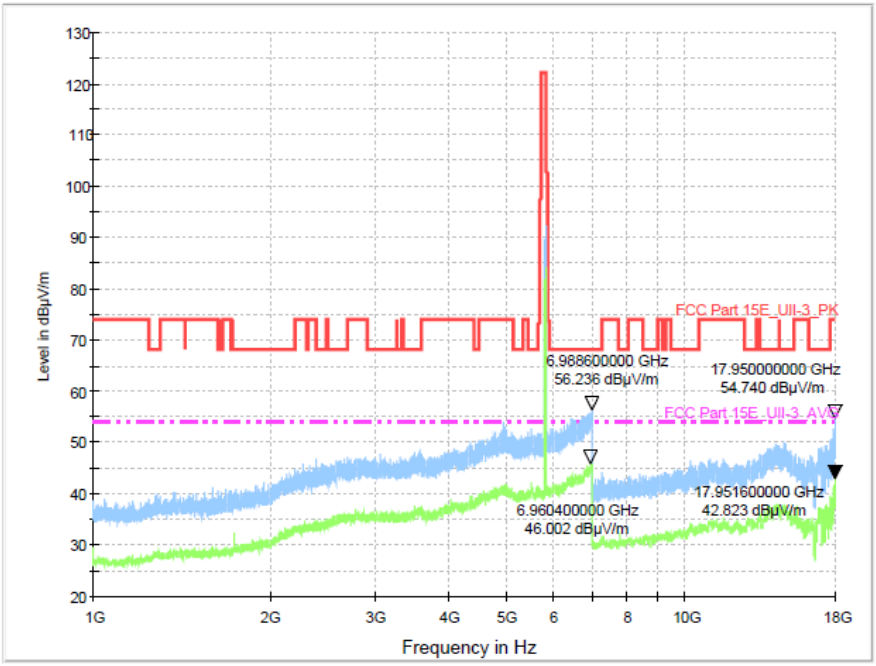
a 5745MHz



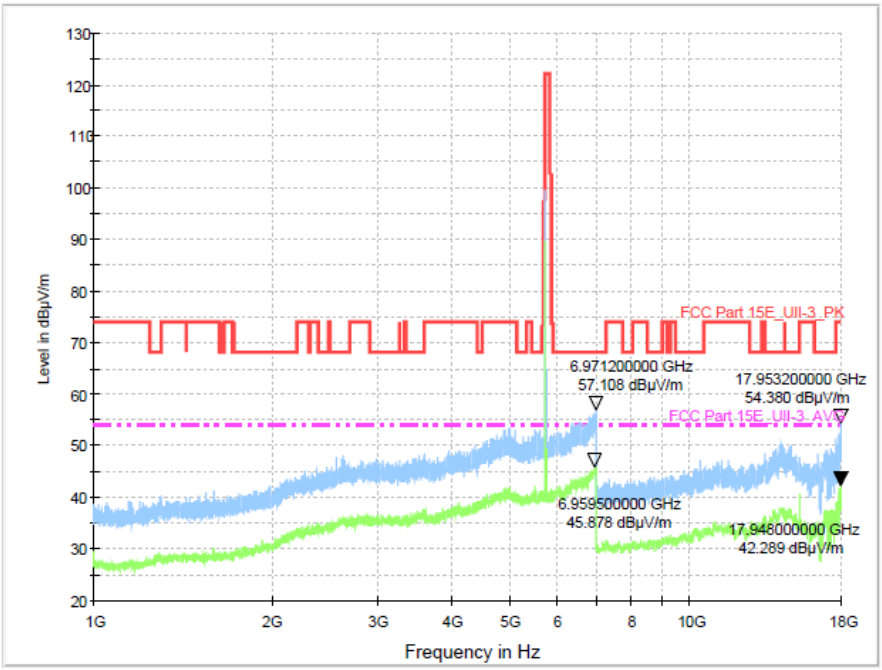
a 5785MHz



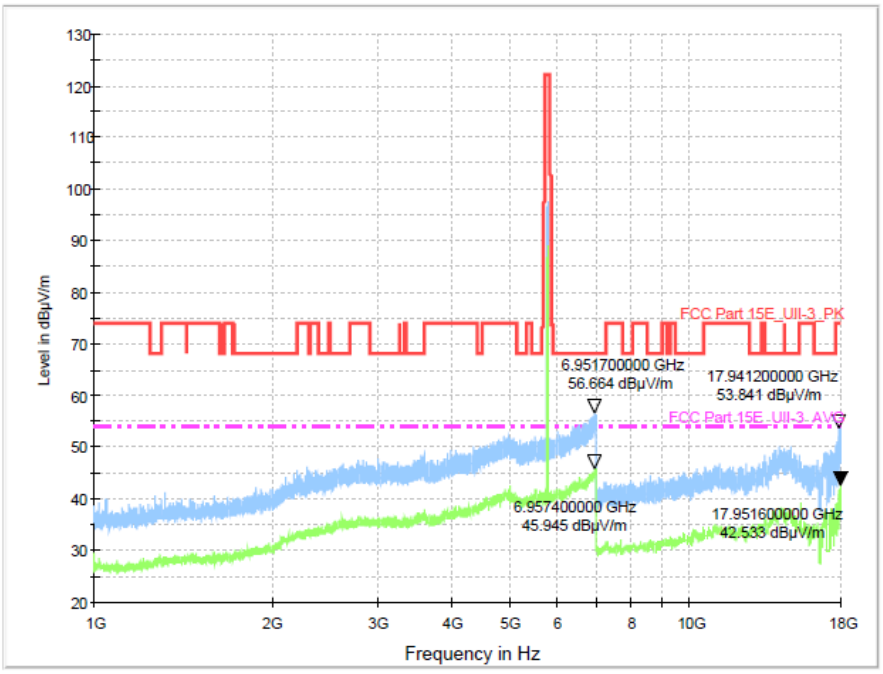
a 5825MHz



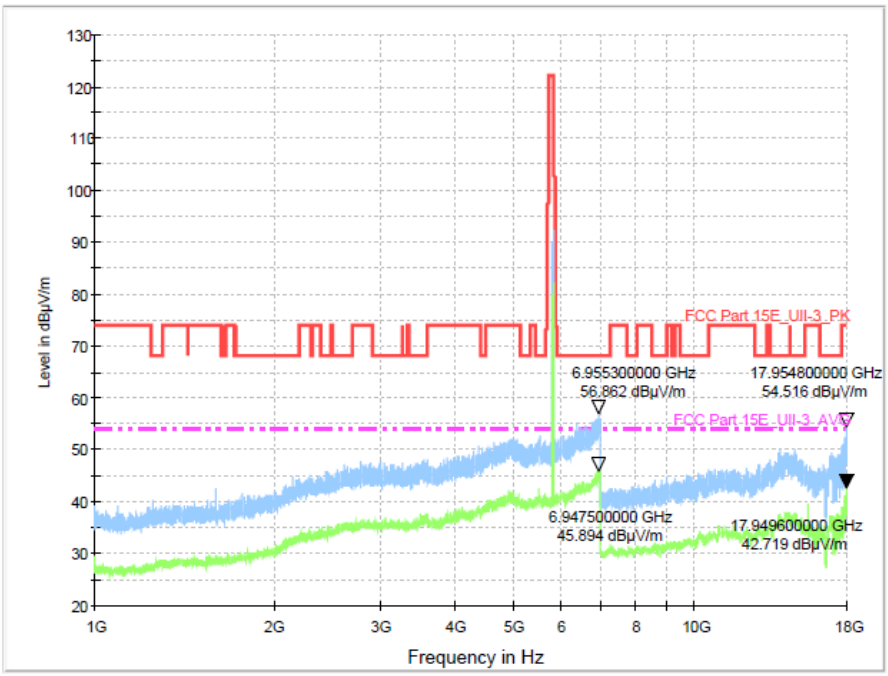
ac20 5745MHz



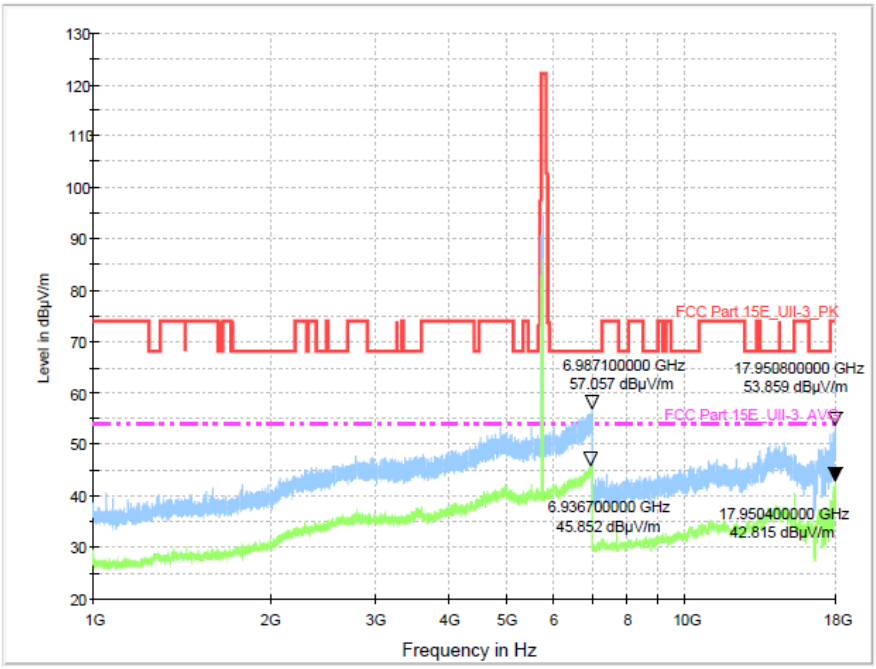
ac20 5785MHz



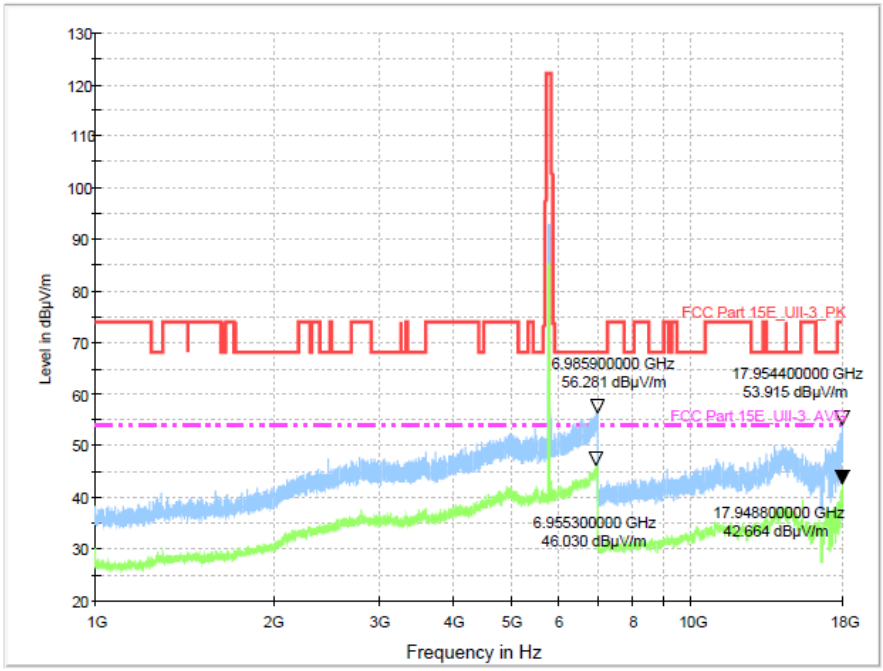
ac20 5825MHz



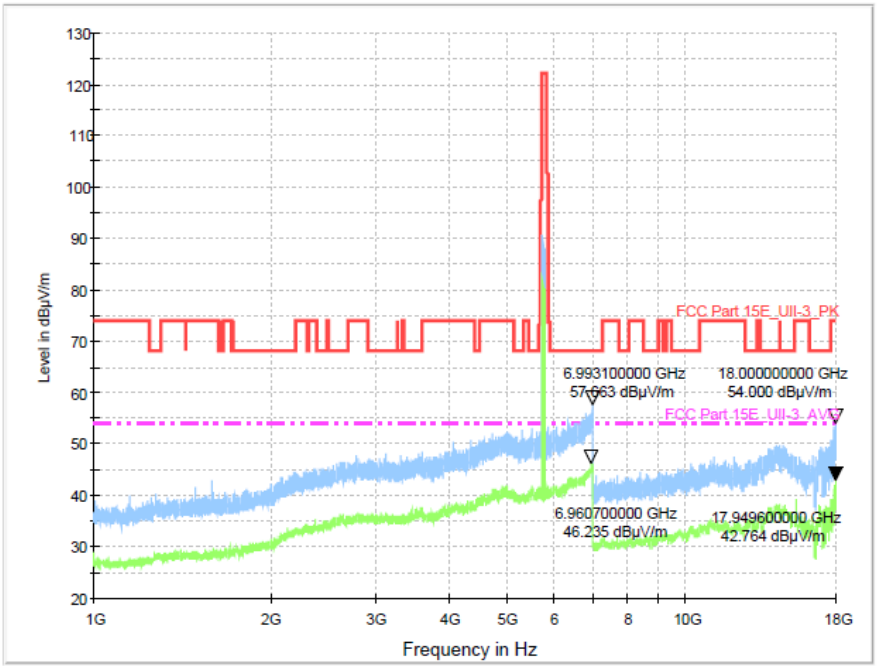
ac40 5755MHz



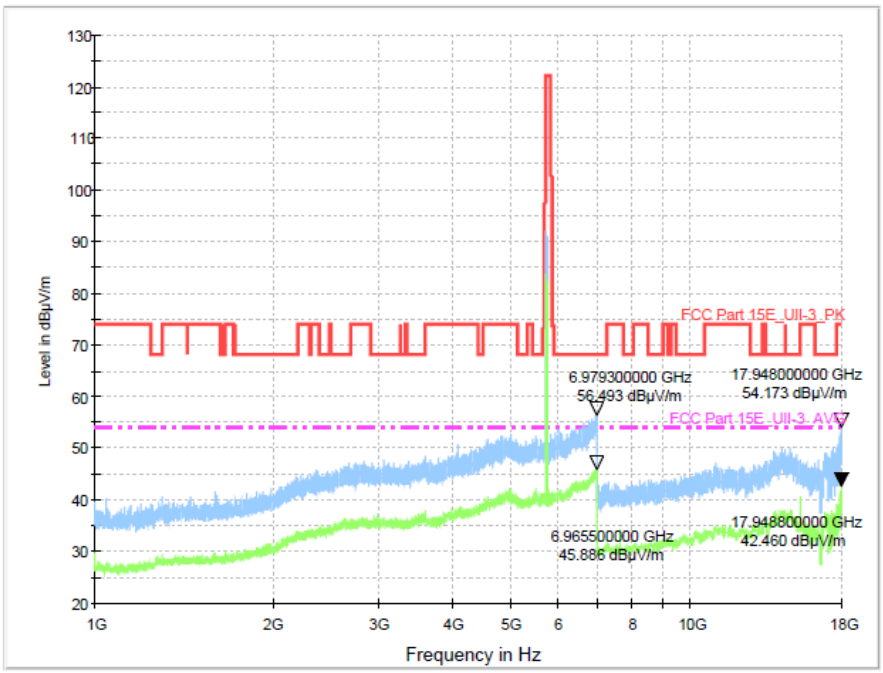
ac40 5795MHz



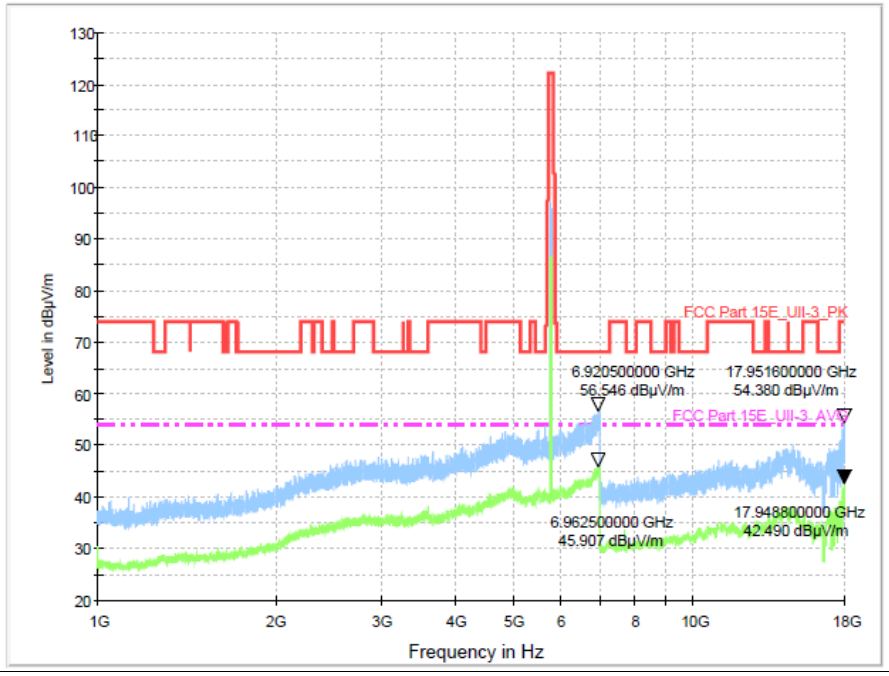
ac80 5775MHz



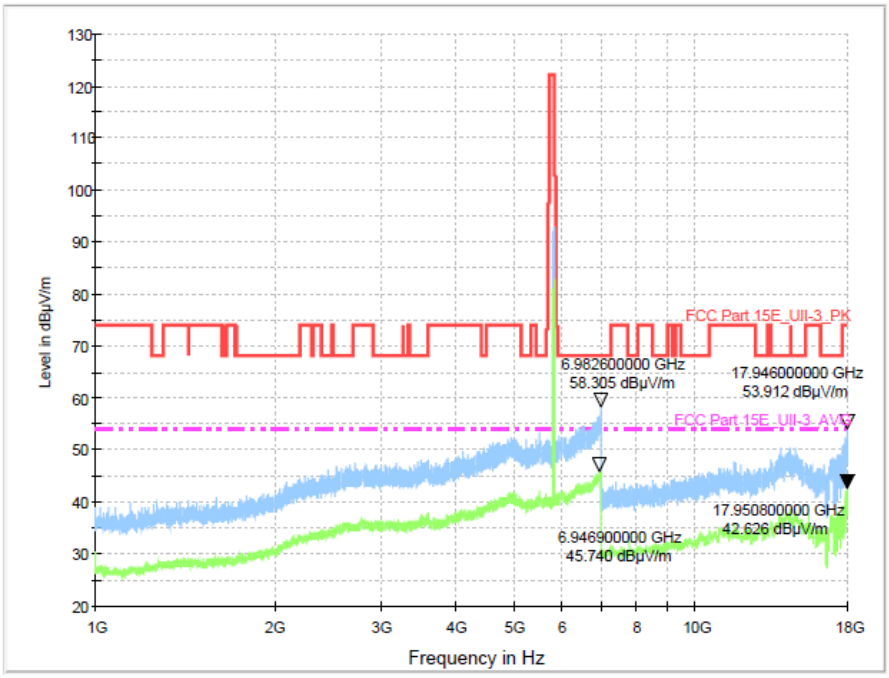
ax20 5745MHz



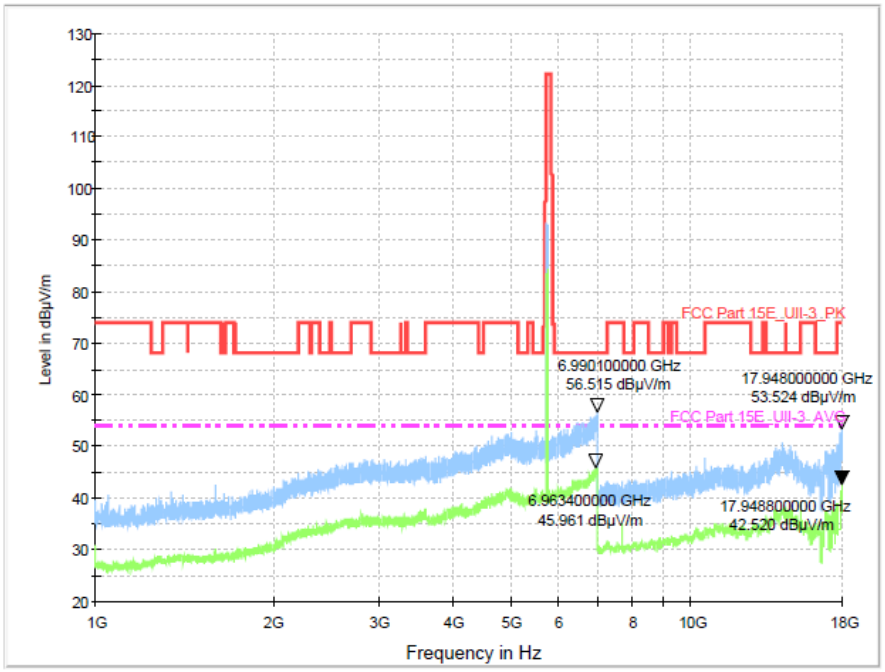
ax20 5785MHz



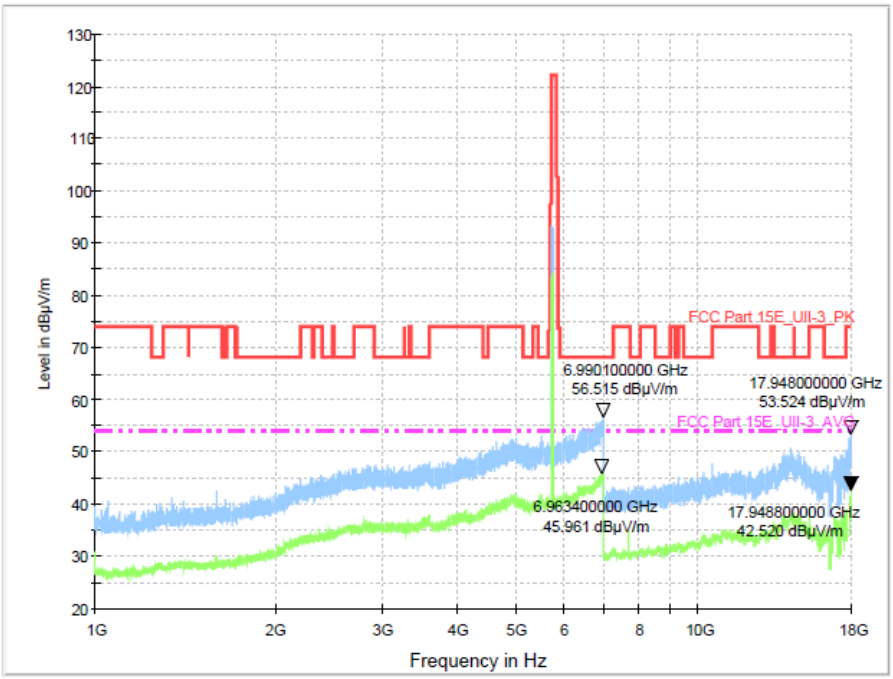
ax20 5825MHz



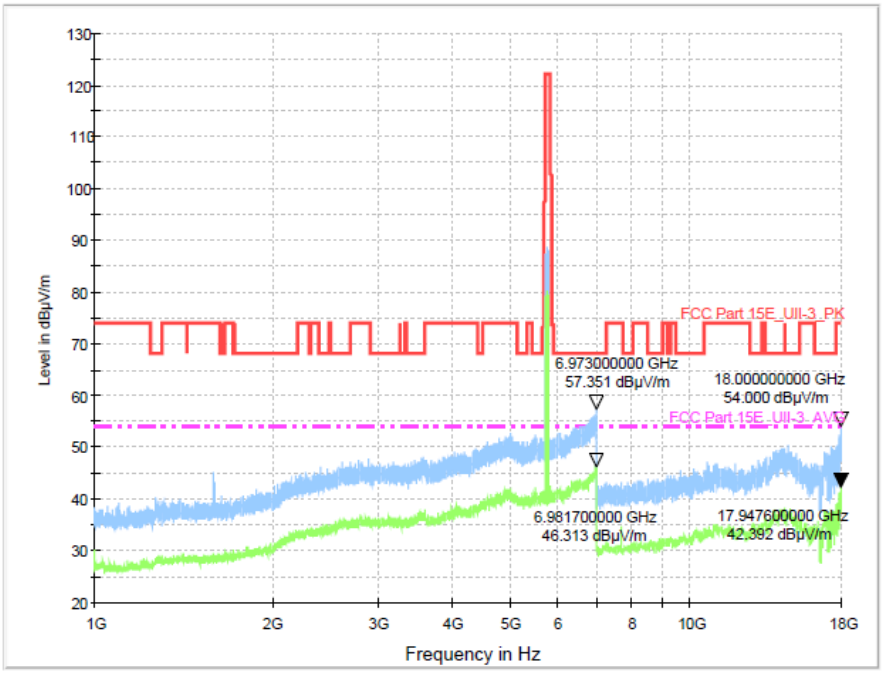
ax40 5755MHz



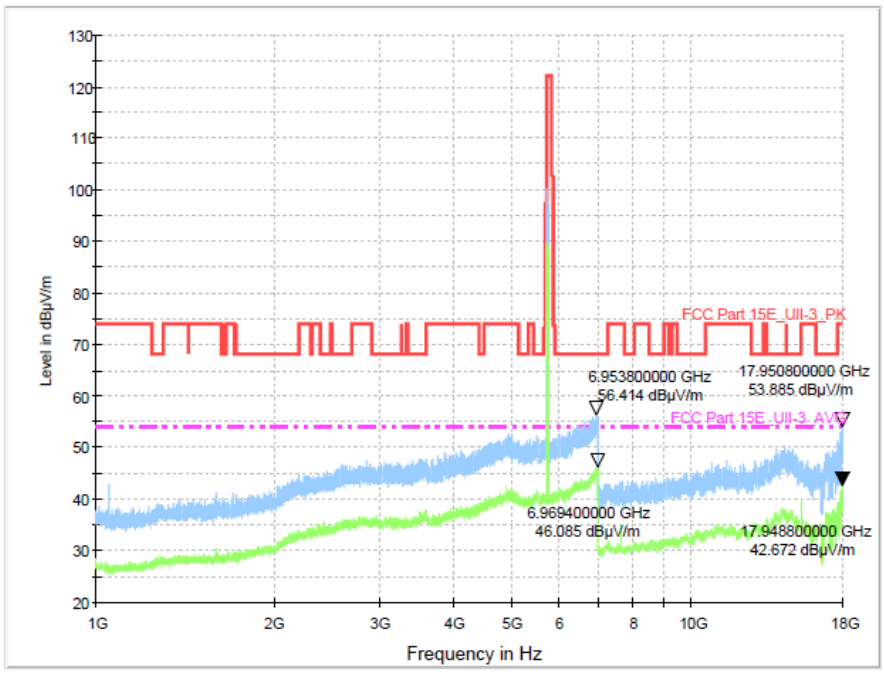
ax40 5795MHz



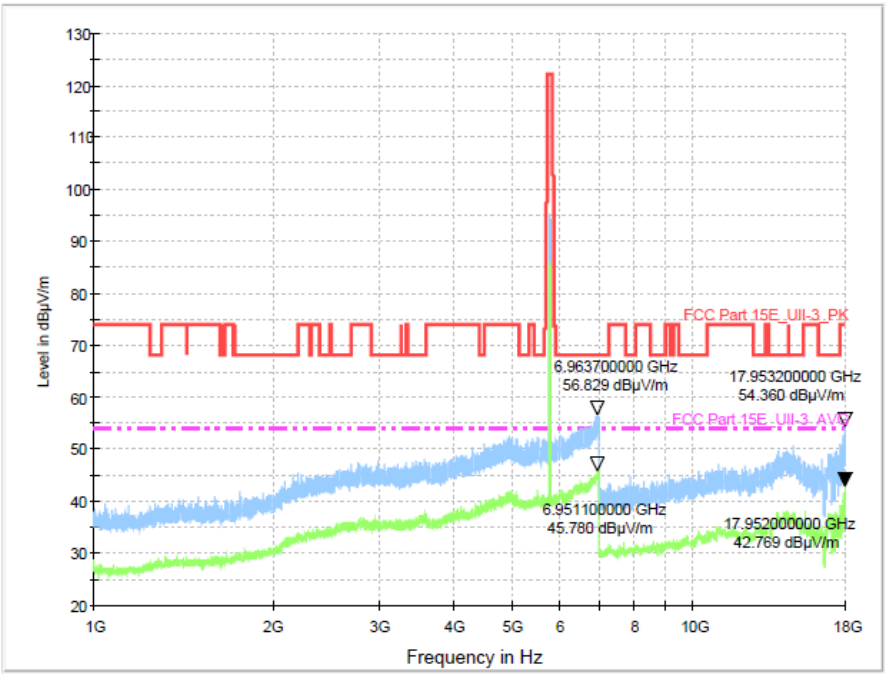
ax80 5775MHz



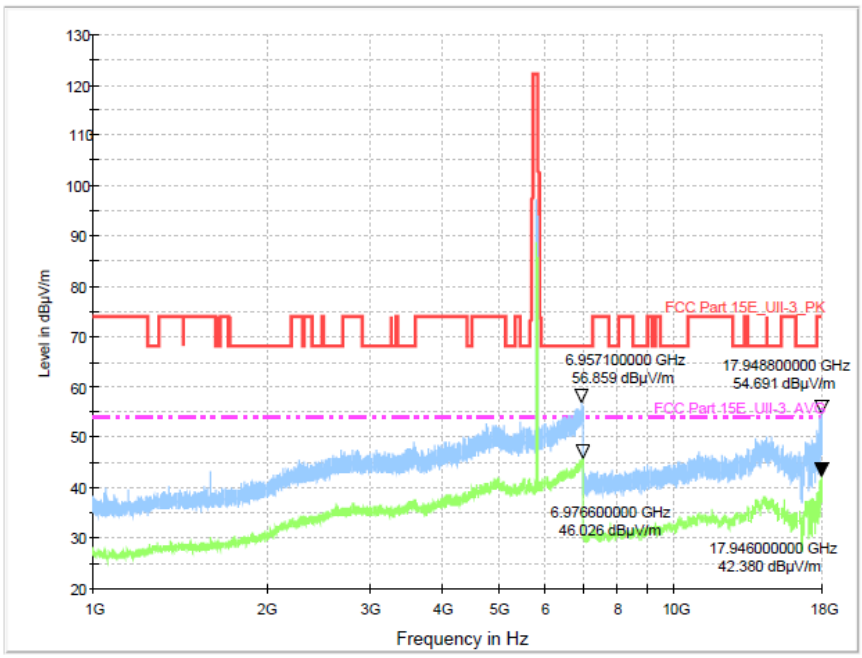
n20 5745MHz



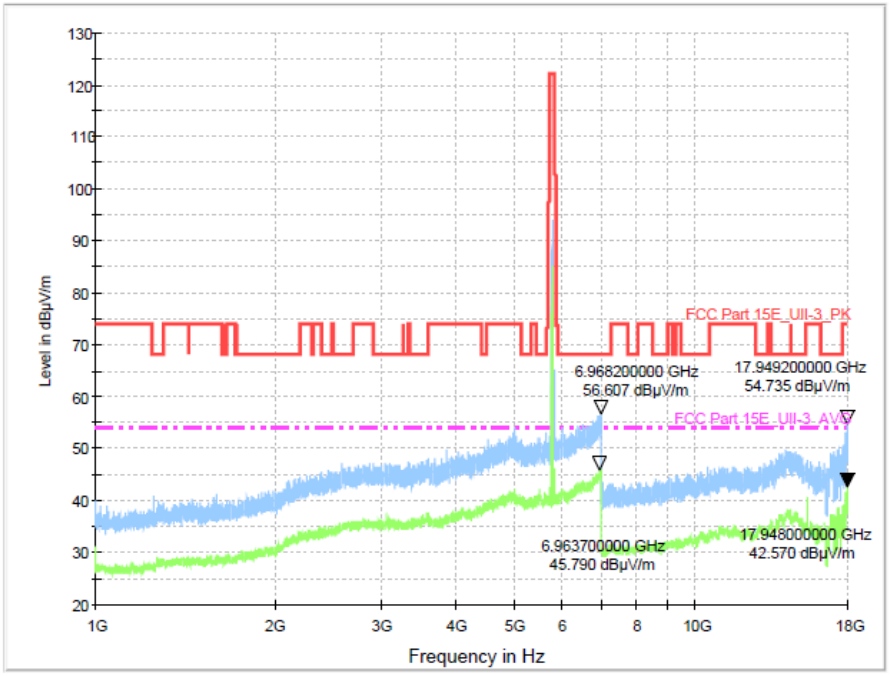
n20 5785MHz



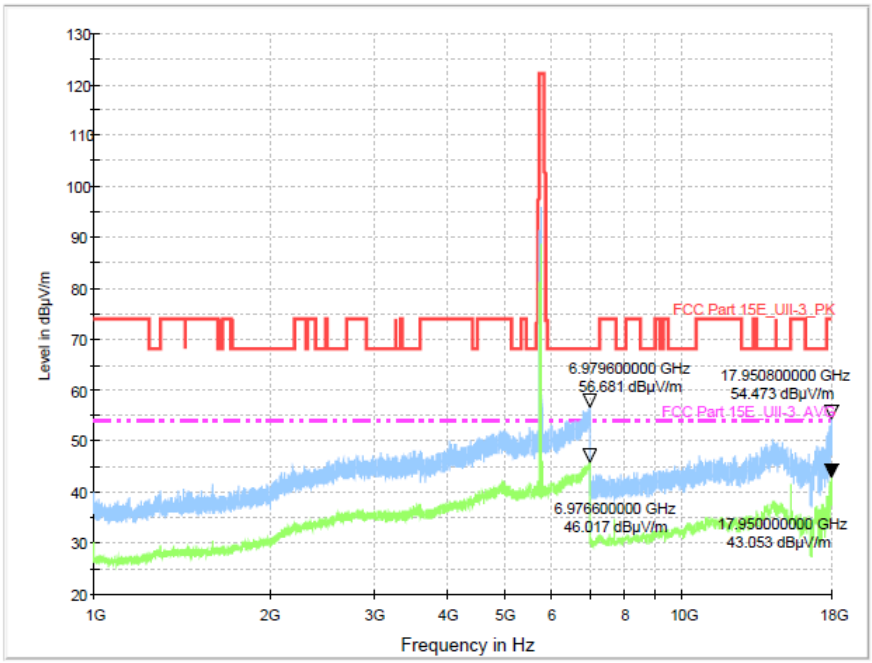
n20 5825MHz



n40 5755MHz

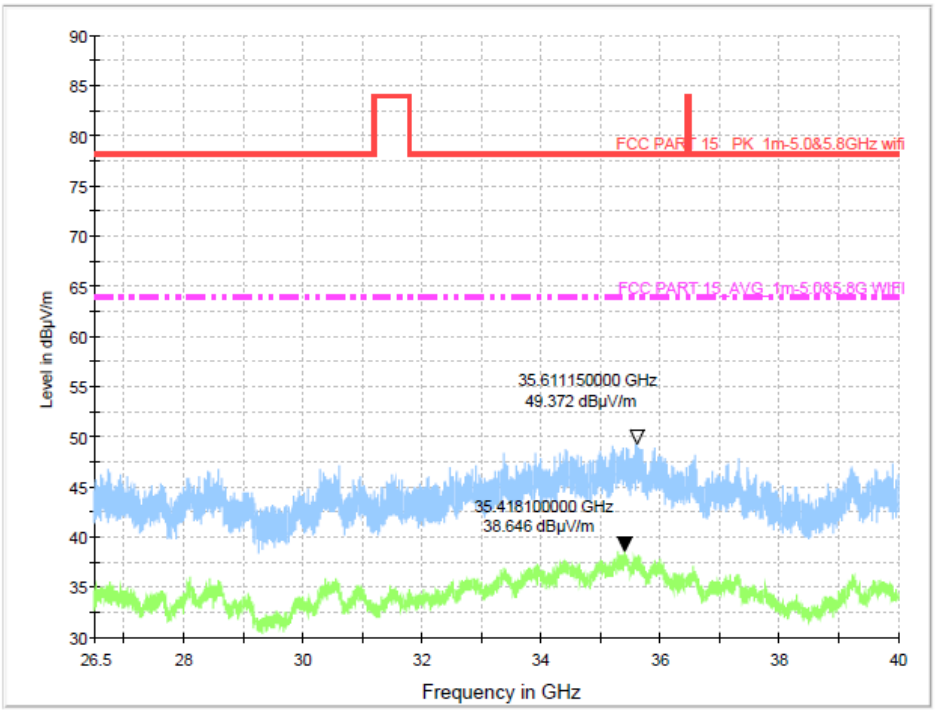


n40 5795MHz



Note: 1. Except for mode a, other modes test the MIMO status.
2. Mode a represents the worst data of antenna 1

From 18G to 40GHz Conclusion: PASS



Remark: 1.All modes have been tested, and only worst data of a mode, Channel 5200MHz was listed in this
2. Mode a represents the worst data of antenna 1

4.8 Frequency stability

Test limit	Manufacturers 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 in the user's manual.
Test results:	Pass

Measurement Data:

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	DC 3.0V	5179.996	4	5239.991	9
	DC 3.3V	5179.997	3	5239.995	5
	DC 3.6V	5179.997	3	5239.993	7
Mode	Voltage (V)	FHL (5260MHz)	Deviation (KHz)	FHH (5320MHz)	Deviation (KHz)
Band 2 (5250-5350 MHz)	DC 3.0V	5259.994	6	5229.998	2
	DC 3.3V	5259.994	6	5229.995	5
	DC 3.6V	5259.992	8	5229.998	2
Mode	Voltage (V)	FHL (5500MHz)	Deviation (KHz)	FHH (5700MHz)	Deviation (KHz)
Band 3 (5470-5725 MHz)	DC 3.0V	5499.991	9	5699.987	13
	DC 3.3V	5499.997	3	5699.986	14
	DC 3.6V	5499.992	8	5699.987	13
Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	DC 3.0V	5744.991	9	5824.989	11
	DC 3.3V	5744.991	9	5824.990	10
	DC 3.6V	5744.988	12	5824.990	10

Mode	Temperature (℃)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	0℃	5179.992	8	5239.993	7
	+10℃	5179.998	2	5239.993	7
	+20℃	5179.995	5	5239.997	3
	+30℃	5179.995	5	5239.995	5
	+40℃	5179.997	3	5239.995	5
	+50℃	5179.994	6	5239.998	2
	+60℃	5179.997	3	5239.994	6
	+70℃	5179.995	5	5239.998	2
Mode	Temperature (℃)	FHL (5260MHz)	Deviation (KHz)	FHH (5320MHz)	Deviation (KHz)
Band 2 (5250-5350 MHz)	0℃	5259.991	9	5229.994	6
	+10℃	5259.996	4	5229.997	3
	+20℃	5259.994	6	5229.991	9
	+30℃	5259.998	2	5229.998	2
	+40℃	5259.997	3	5229.997	3
	+50℃	5259.993	7	5229.993	7
	+60℃	5259.993	7	5229.997	3
	+70℃	5259.997	3	5229.994	6
Mode	Temperature (℃)	FHL (5500MHz)	Deviation (KHz)	FHH (5700MHz)	Deviation (KHz)
Band 3 (5470-5725 MHz)	0℃	5499.994	6	5699.998	2
	+10℃	5499.993	7	5699.994	6
	+20℃	5499.996	4	5699.997	3
	+30℃	5499.995	5	5699.997	3
	+40℃	5499.997	3	5699.997	3
	+50℃	5499.993	7	5699.997	3
	+60℃	5499.993	7	5699.997	3
	+70℃	5499.996	4	5699.996	4
Mode	Temperature (℃)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	0℃	5744.992	8	5824.993	7
	+10℃	5744.996	4	5824.995	5
	+20℃	5744.992	8	5824.993	7
	+30℃	5744.995	5	5824.993	7
	+40℃	5744.992	8	5824.994	6
	+50℃	5744.998	2	5824.996	4
	+60℃	5744.995	5	5824.997	3
	+70℃	5744.998	2	5824.997	3

--------END OF REPORT-------