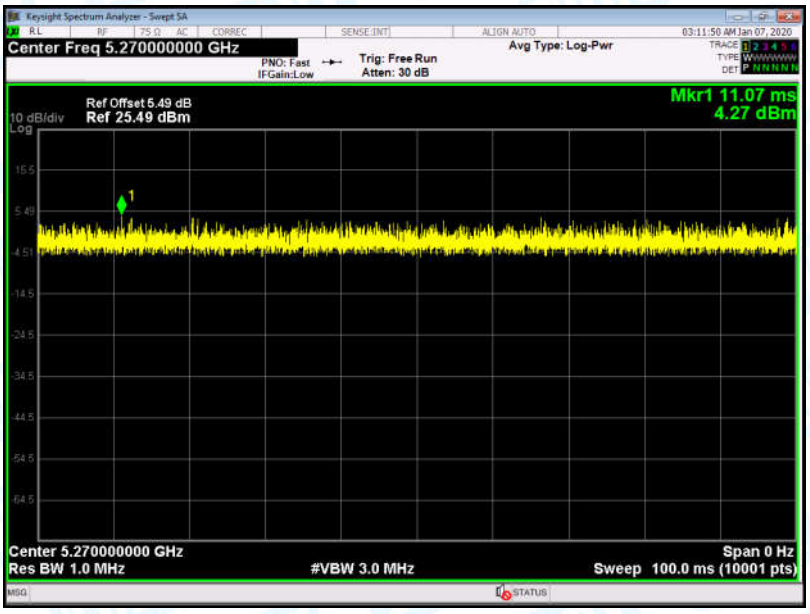
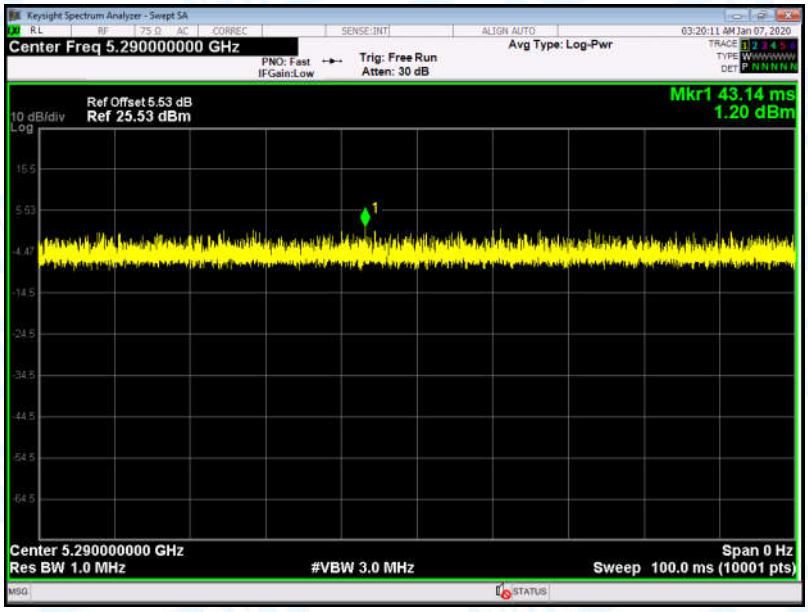
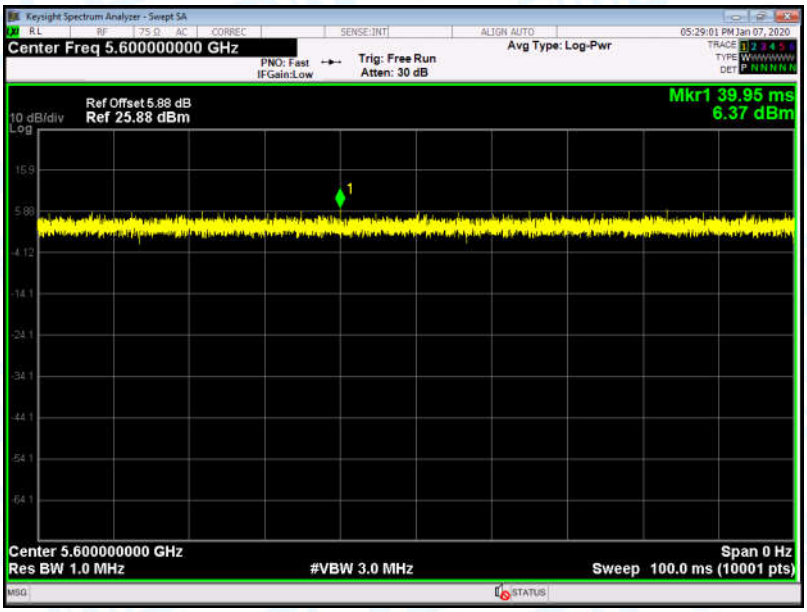
802.11 ac(vHT40) 5270MHz U-NII-2A



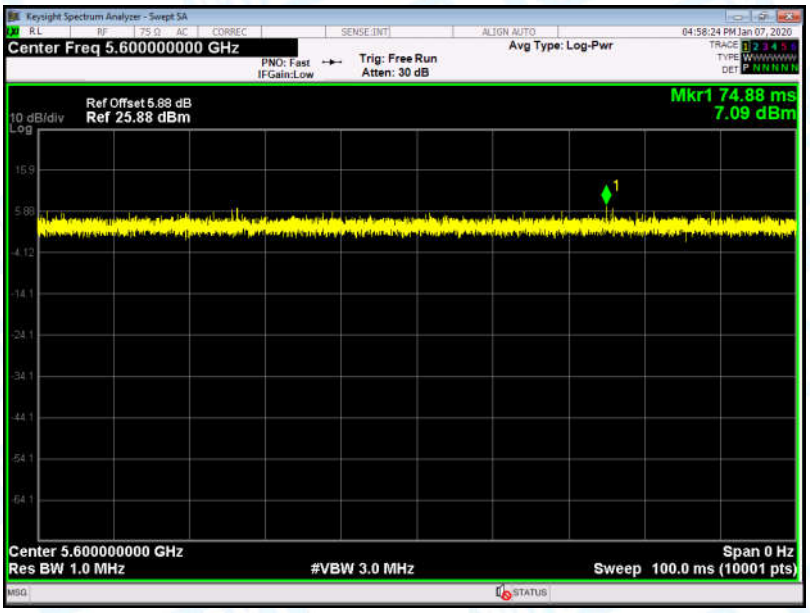
802.11 ac(vHT80) 5290MHz U-NII-2A



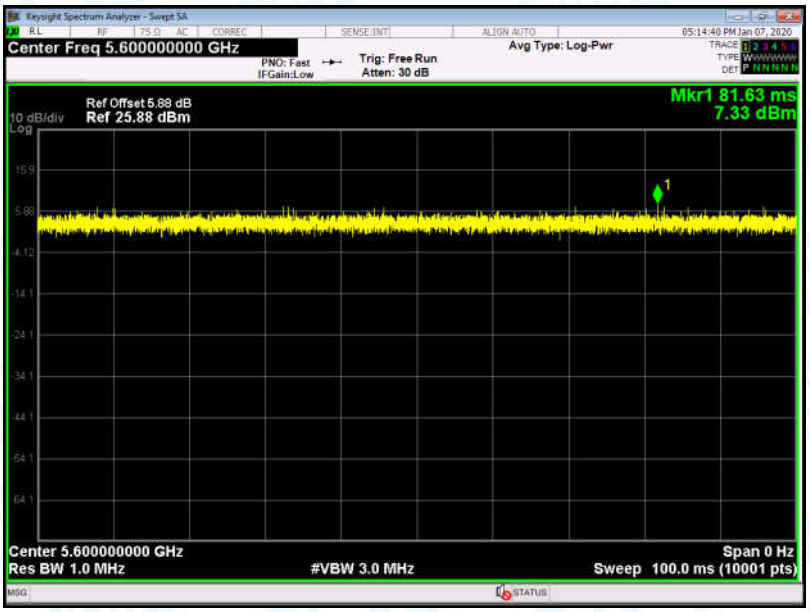
802.11 a 5600MHz U-NII-2C



802.11 n(HT20) 5600MHz U-NII-2C



802.11 ac(vHT20) 5600MHz U-NII-2C

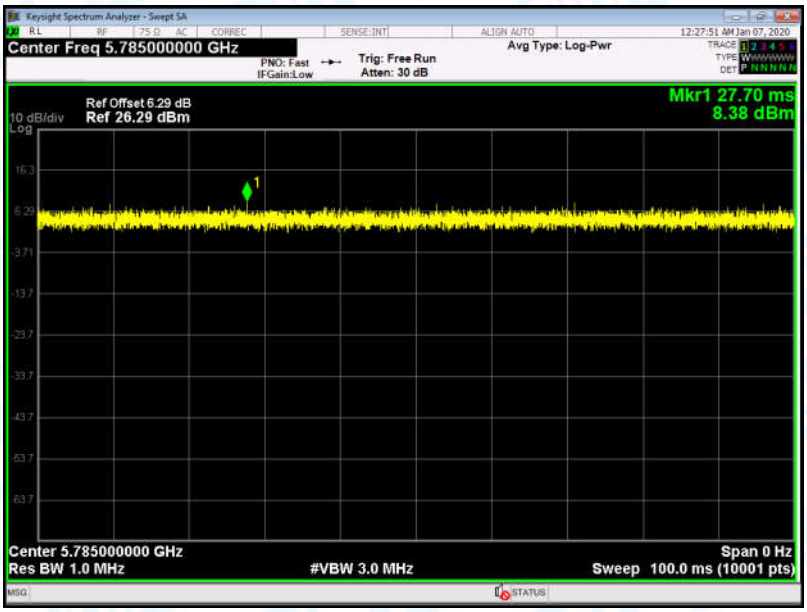


802.11 n(HT40) 5590MHz U-NII-2C

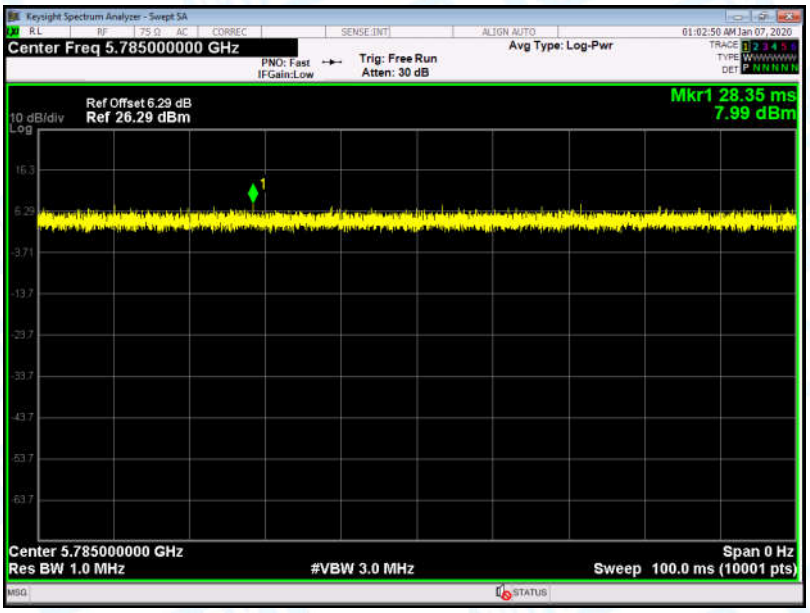
802.11 ac(HT40) 5590MHz U-NII-2C

802.11 ac(HT80) 5610MHz U-NII-2C

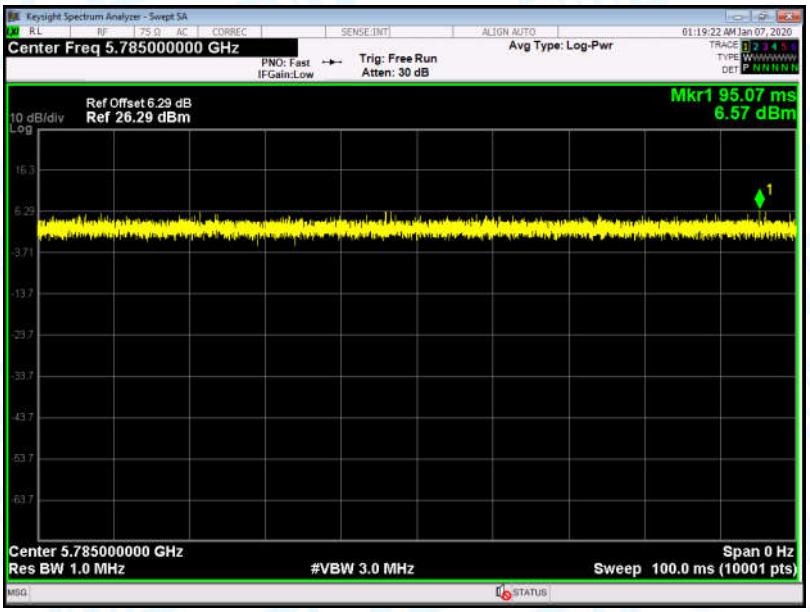
802.11 a 5785MHz U-NII-3



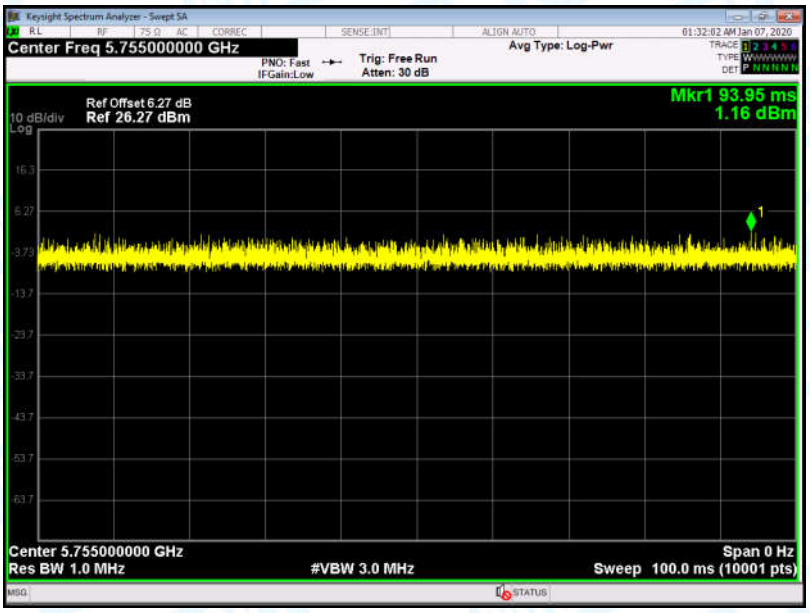
802.11 n(HT20) 5785MHz U-NII-3



802.11 ac(vHT20) 5785MHz U-NII-3

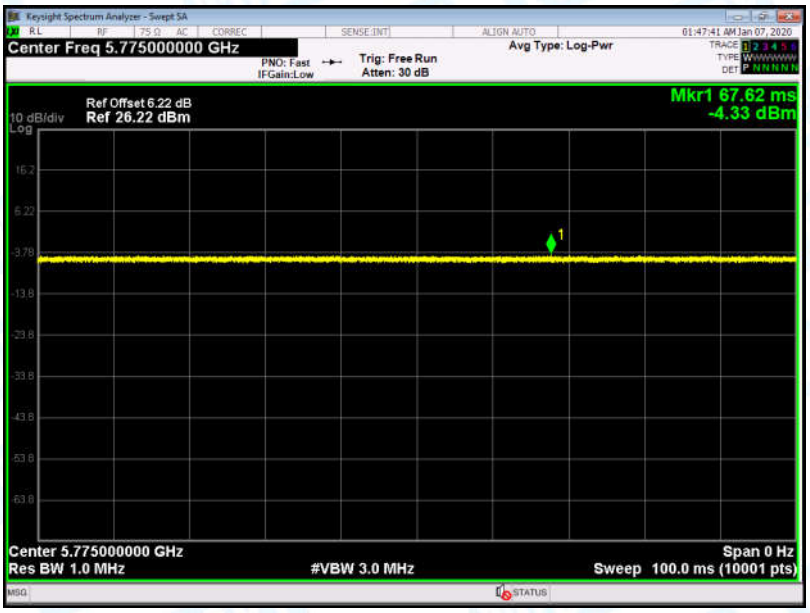


802.11 n(HT40) 5755MHz U-NII-3



802.11 ac(vHT40) 5755MHz U-NII-3

802.11 ac(vHT80) 5775MHz U-NII-3



Attachment F-- Power Spectral Density Test Data

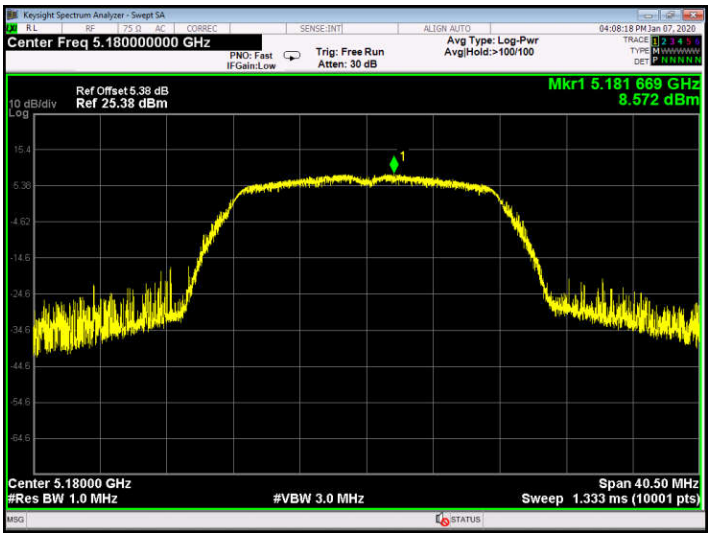
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-1			
Test Mode	Frequency (MHz)	Test Data Power Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	5180	8.572	11
	5200	9.091	
	5240	9.519	
802.11n (HT20)	5180	9.957	
	5200	9.703	
	5240	9.867	
802.11ac (VHT20)	5180	9.782	
	5200	8.892	
	5240	10.524	
802.11n (HT40)	5190	6.328	
	5230	6.614	
802.11ac(VHT40)	5190	6.424	
	5230	6.829	
802.11ac(VHT80)	5210	2.899	
Result: PASS			

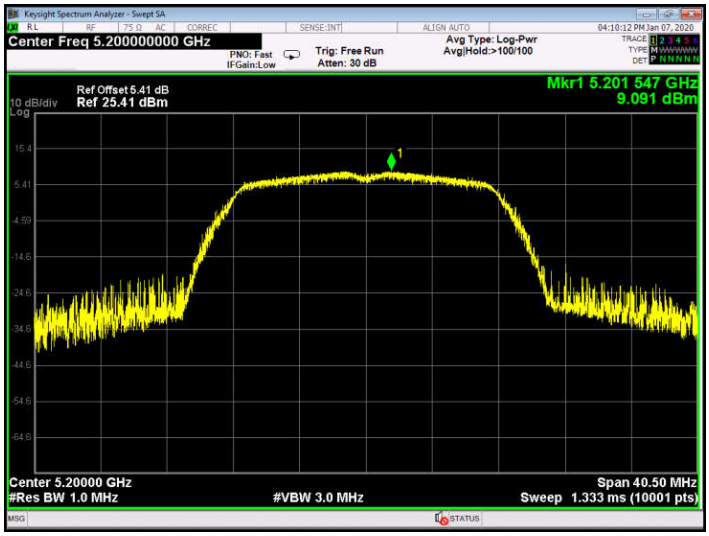
Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}

Test plots please refer to below pages:

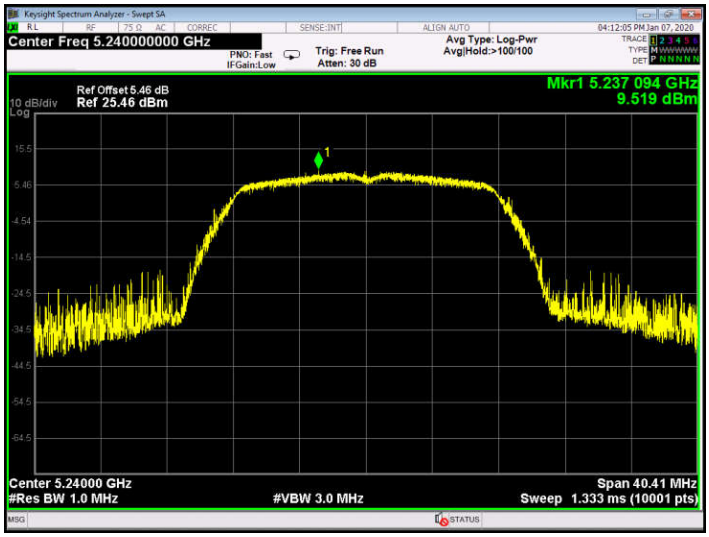
802.11 a 5180 MHz



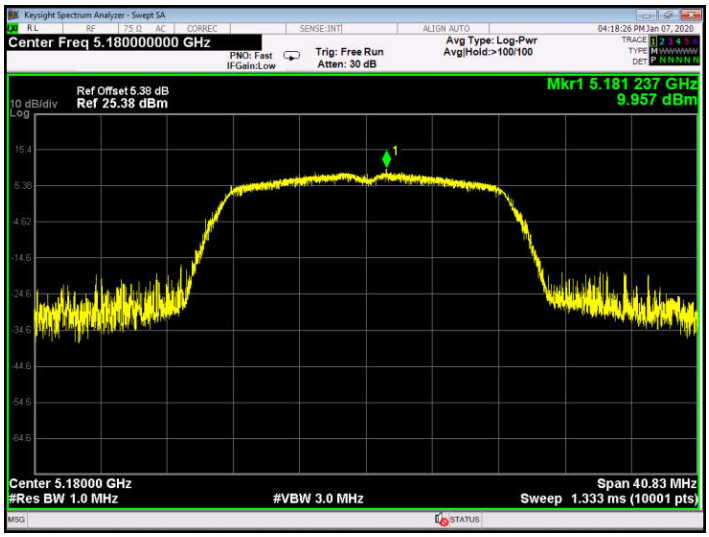
802.11 a 5200 MHz



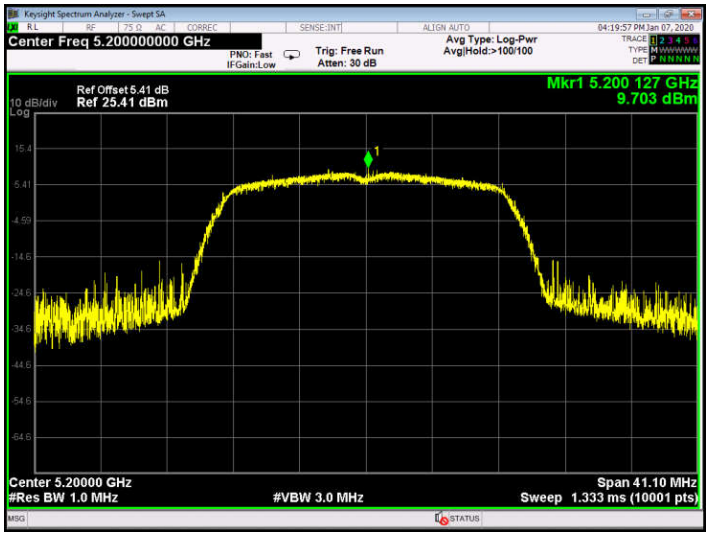
802.11 a 5240 MHz



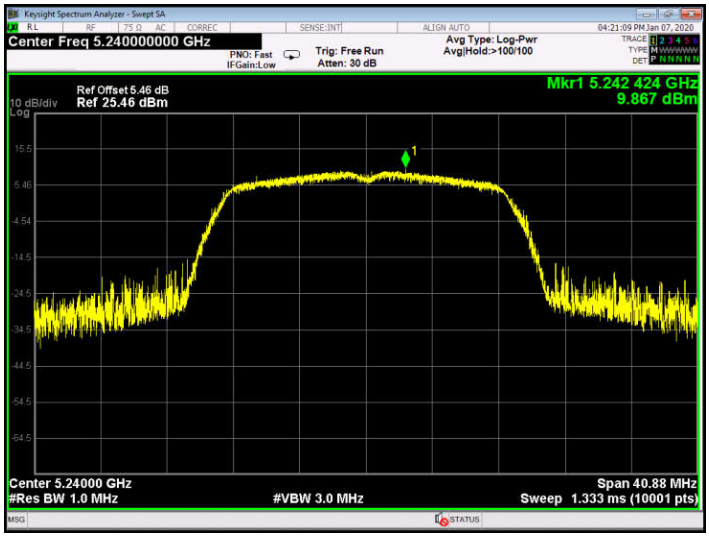
802.11 n(HT20) 5180 MHz



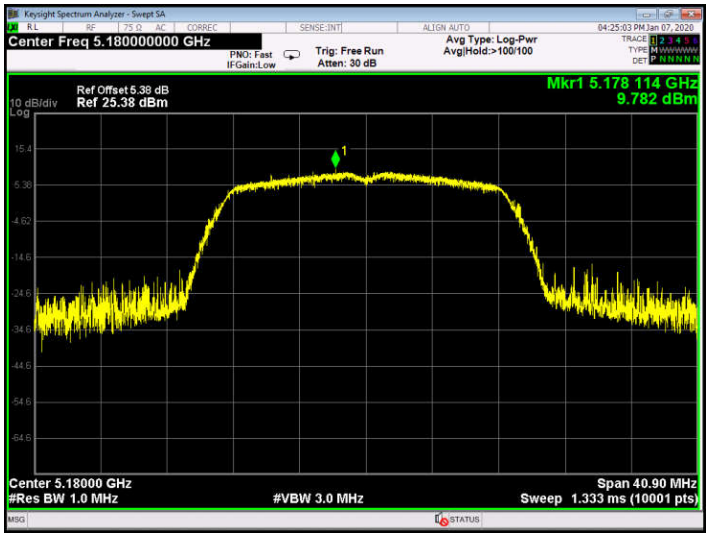
802.11 n(HT20) 5200 MHz



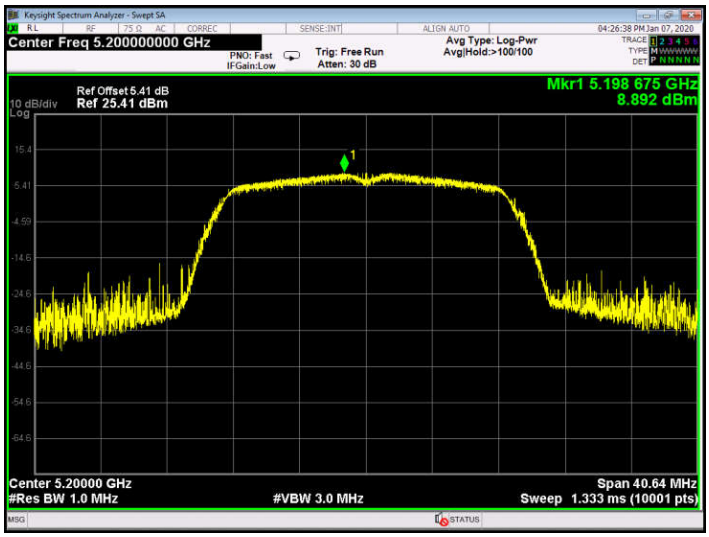
802.11 n(HT20) 5240 MHz



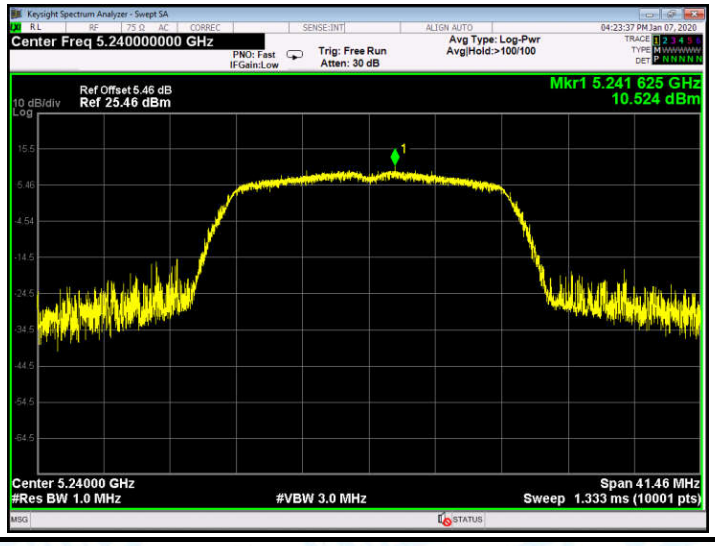
802.11 ac(VHT20) 5180 MHz



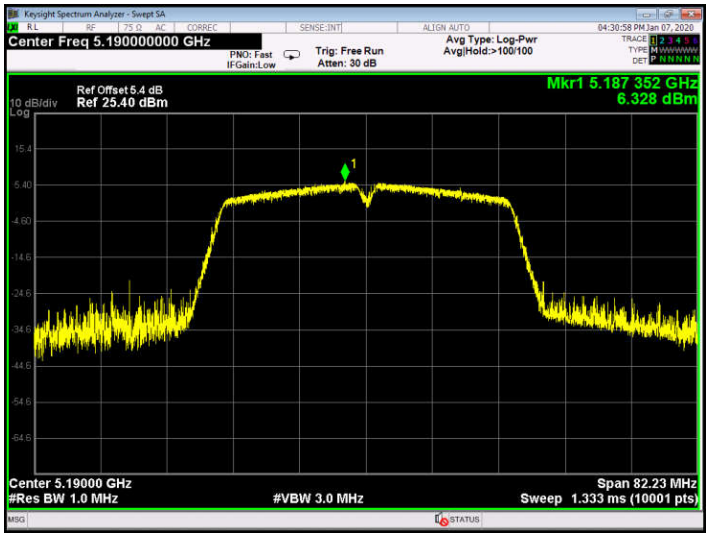
802.11 ac(VHT20) 5200 MHz



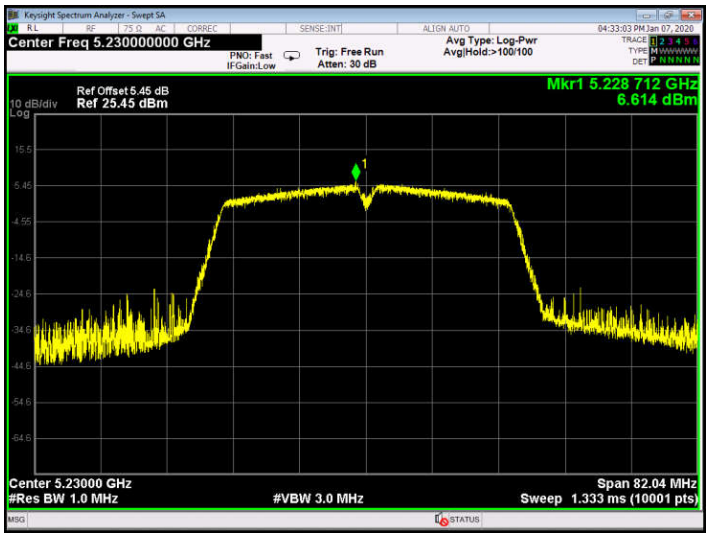
802.11 ac(VHT20) 5240 MHz



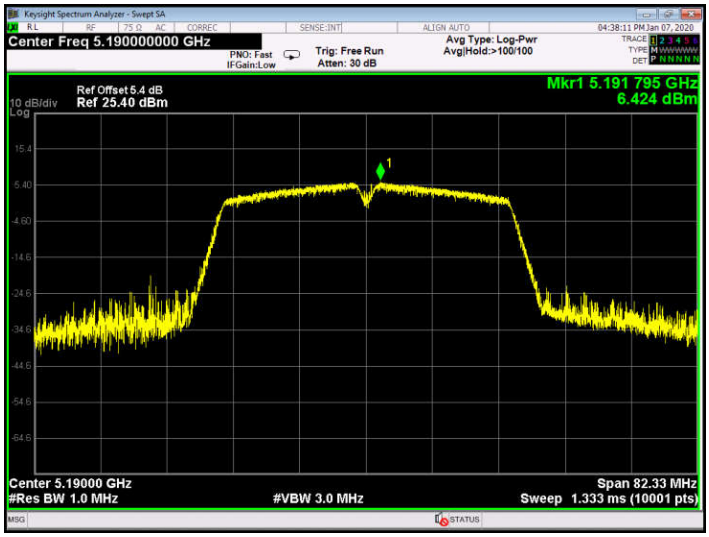
802.11 n(HT40) 5190 MHz



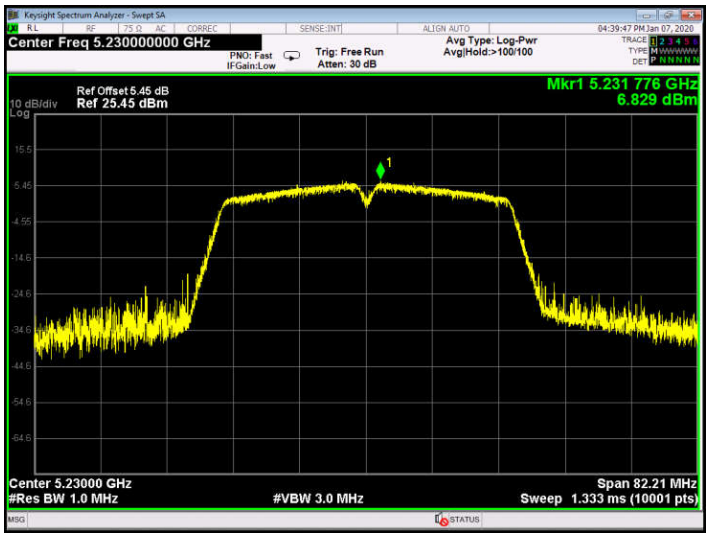
802.11 n(HT40) 5230 MHz



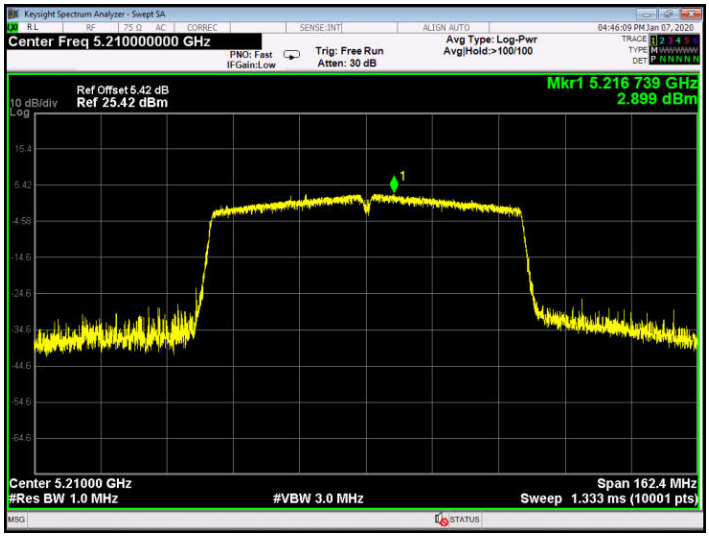
802.11 ac(VHT40) 5190 MHz



802.11 ac(VHT40) 5230 MHz



802.11 ac(VHT80) 5210 MHz



Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-2A

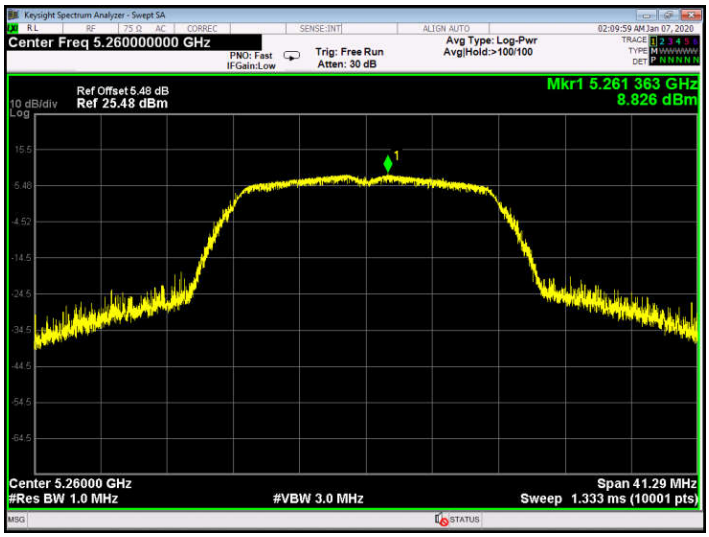
Test Mode	Frequency (MHz)	Test Data Power Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	5260	8.826	11
	5280	9.224	
	5320	8.674	
802.11n (HT20)	5260	8.589	
	5280	8.352	
	5320	9.430	
802.11ac (VHT20)	5260	8.390	
	5280	8.756	
	5320	8.517	
802.11n (HT40)	5270	6.312	
	5310	5.703	
802.11ac(VHT40)	5270	5.597	
	5310	5.655	
802.11ac(VHT80)	5290	2.624	

Result: PASS

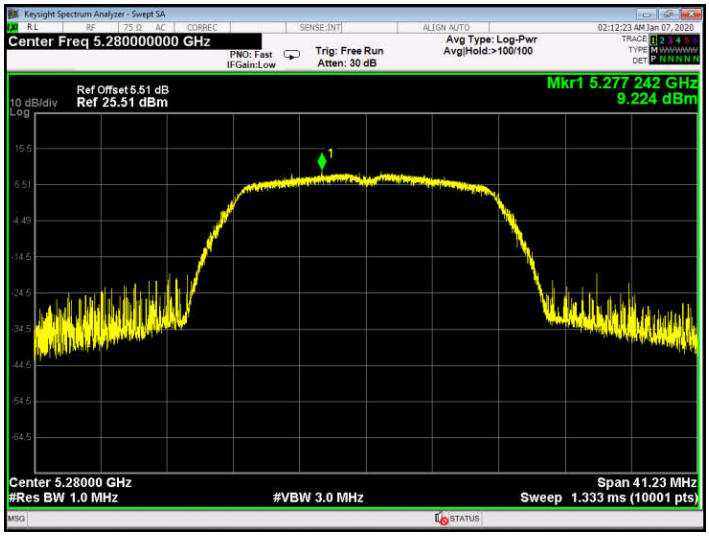
Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}

Test plots please refer to below pages:

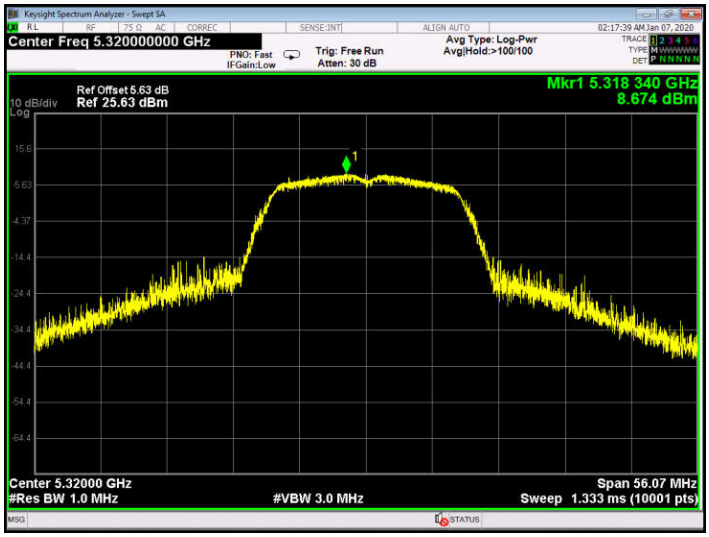
802.11 a 5260 MHz



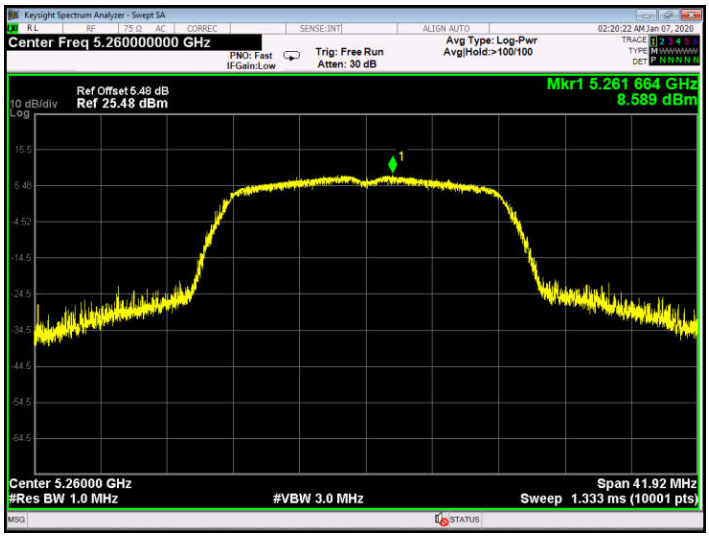
802.11 a 5280 MHz



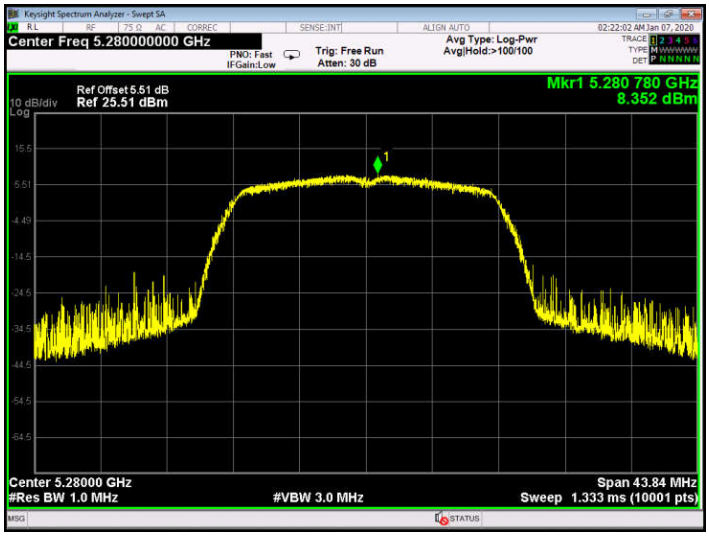
802.11 a 5320 MHz



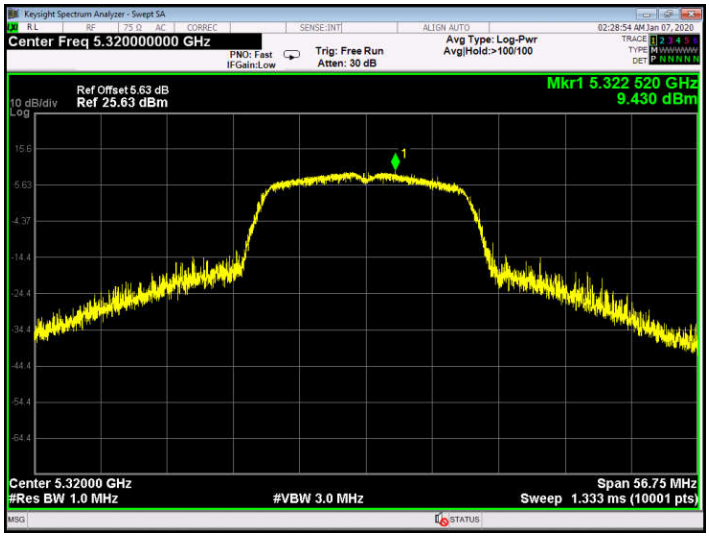
802.11 n(HT20) 5260 MHz



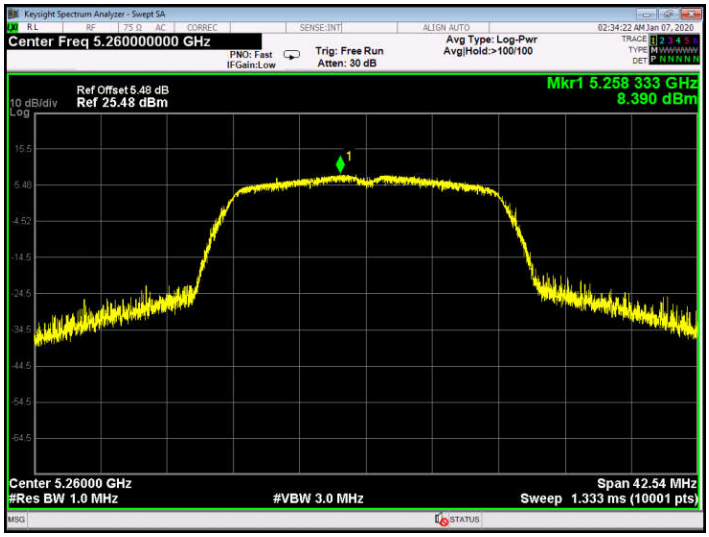
802.11 n(HT20) 5280 MHz



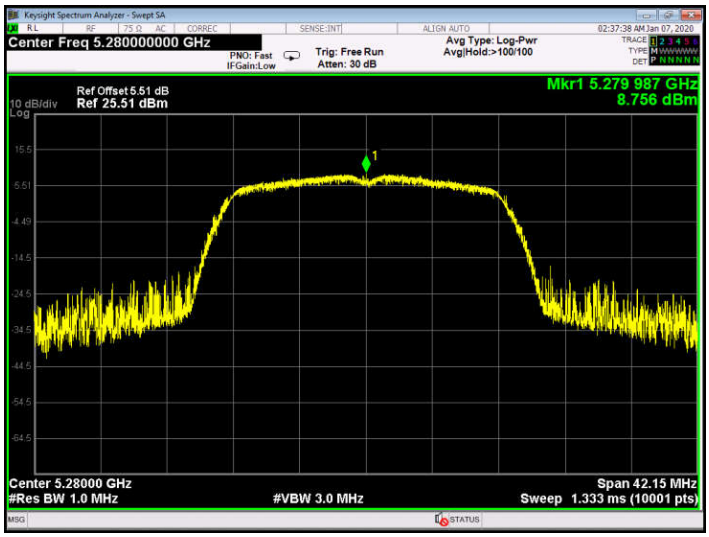
802.11 n(HT20) 5320 MHz



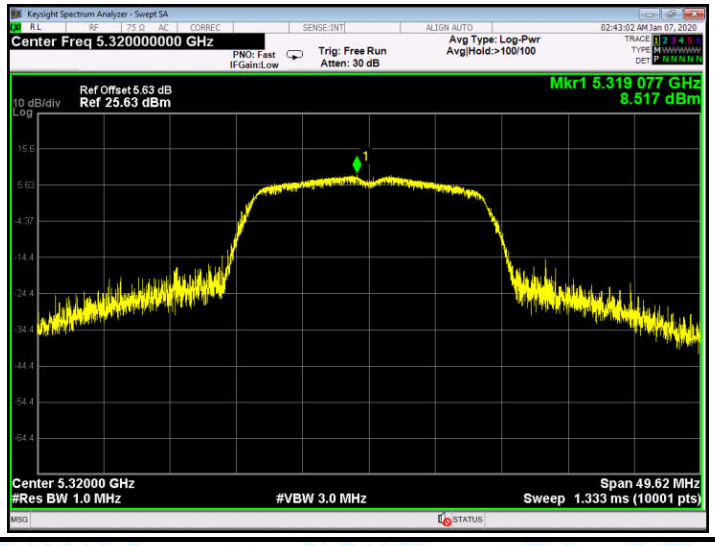
802.11 ac(VHT20) 5260 MHz



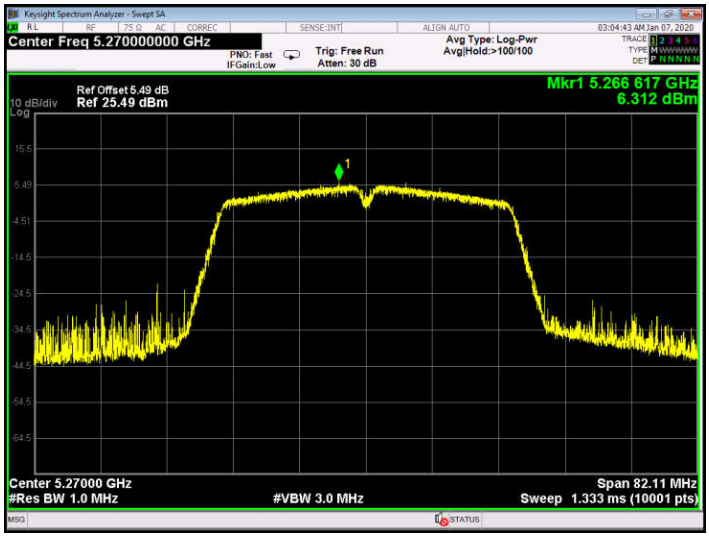
802.11 ac(VHT20) 5280 MHz



802.11 ac(VHT20) 5320 MHz

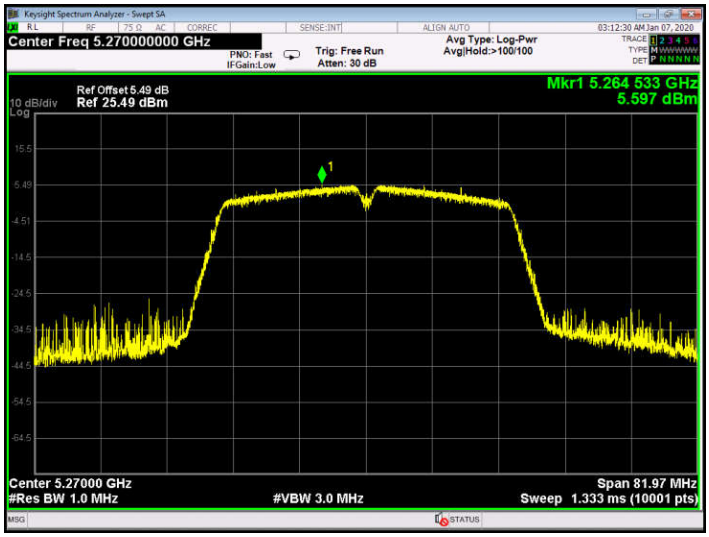


802.11 n(HT40) 5270 MHz



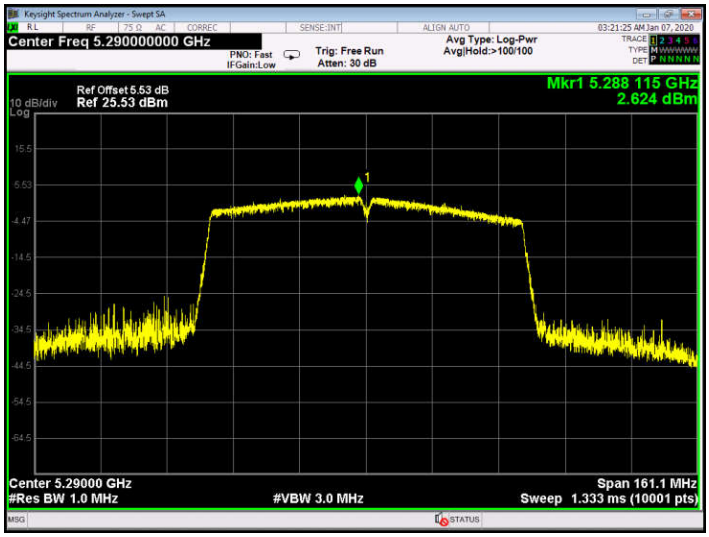
802.11 n(HT40) 5310 MHz

802.11 ac(VHT40) 5270 MHz



802.11 ac(VHT40) 5310 MHz

802.11 ac(VHT80) 5290 MHz



Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-2C

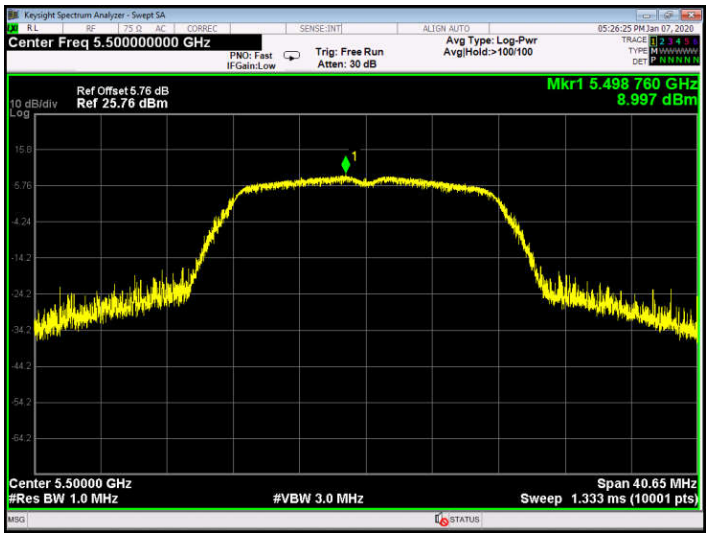
Test Mode	Frequency (MHz)	Test Data Power Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	5500	8.997	11
	5600	6.123	
	5720	8.608	
802.11n (HT20)	5500	7.567	
	5600	6.082	
	5720	7.781	
802.11ac (HT20)	5500	8.313	
	5600	7.296	
	5720	9.075	
802.11n (HT40)	5510	6.453	
	5590	2.877	
	5710	3.243	
802.11ac(40)	5510	5.993	
	5590	3.483	
	5710	5.395	
802.11ac(80)	5530	2.949	
	5610	0.080	
	5690	1.237	

Result: PASS

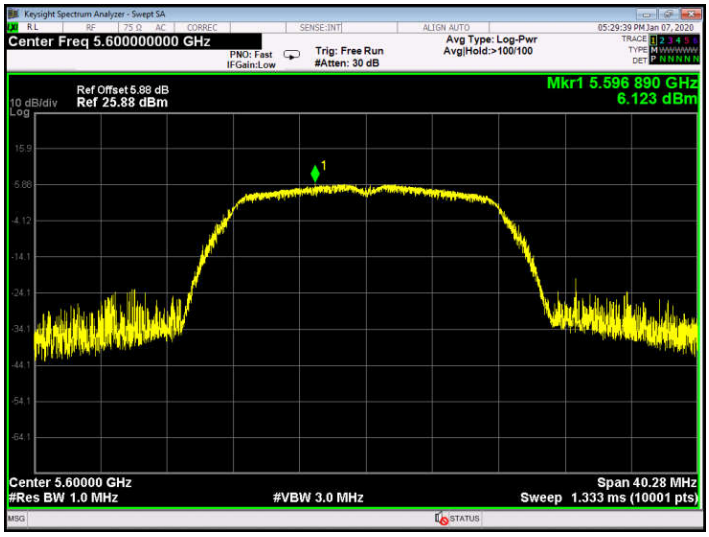
Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}

Test plots please refer to below pages:

802.11 a 5500 MHz

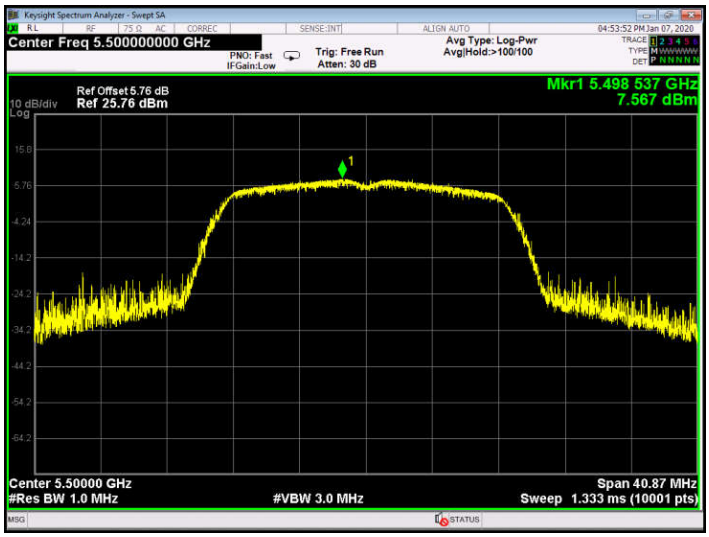


802.11 a 5600 MHz

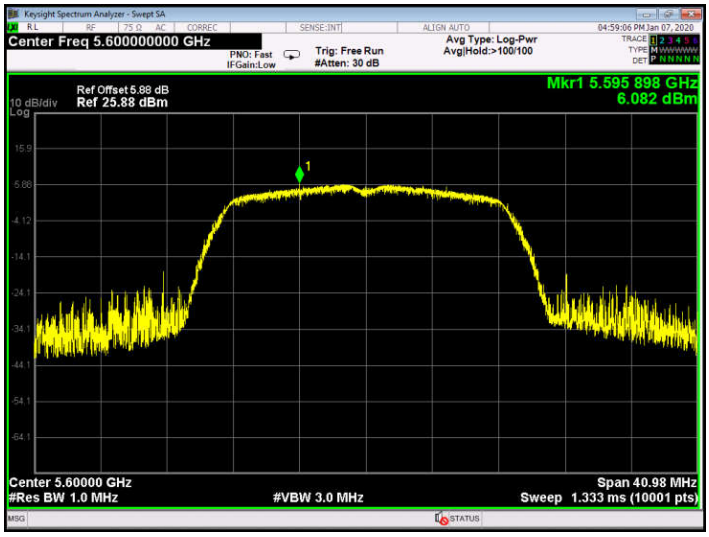


802.11 a 5720 MHz

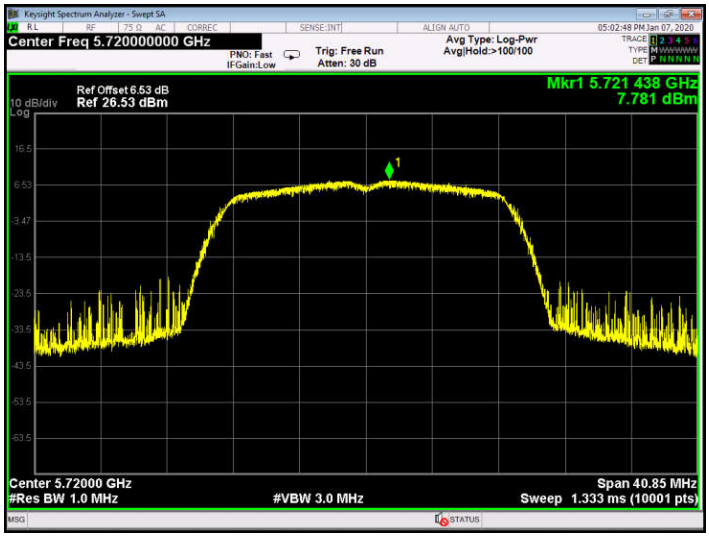
802.11 n(HT20) 5500 MHz



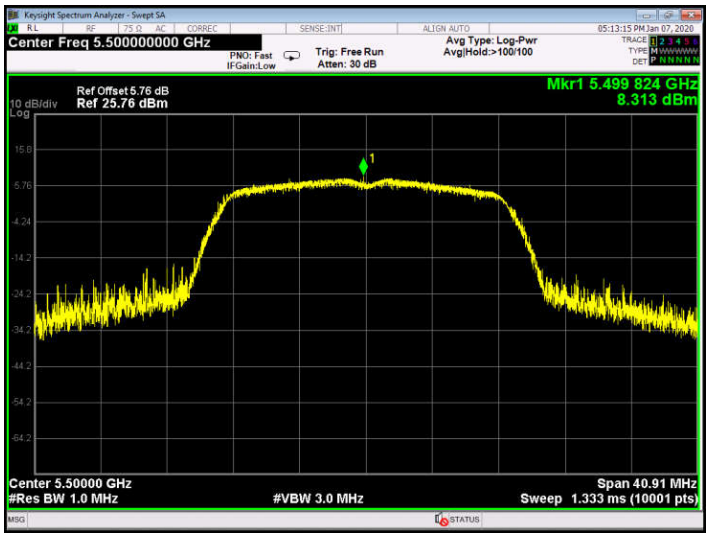
802.11 n(HT20) 5600 MHz



802.11 n(HT20) 5720 MHz

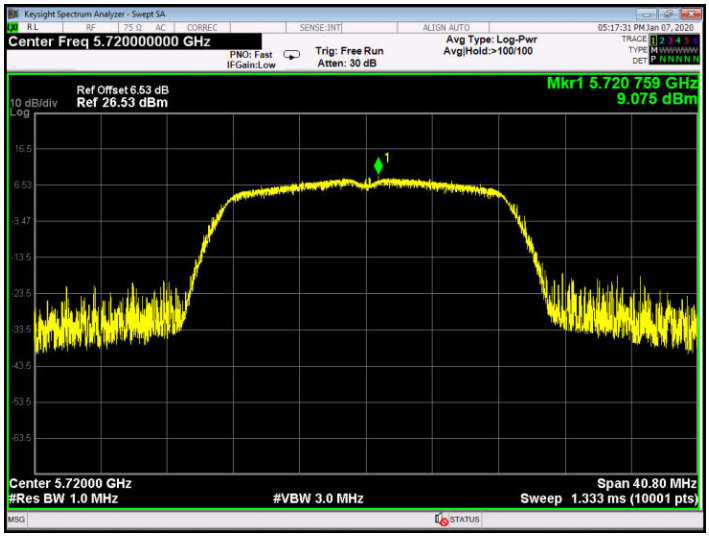


802.11 ac(VHT20) 5500 MHz

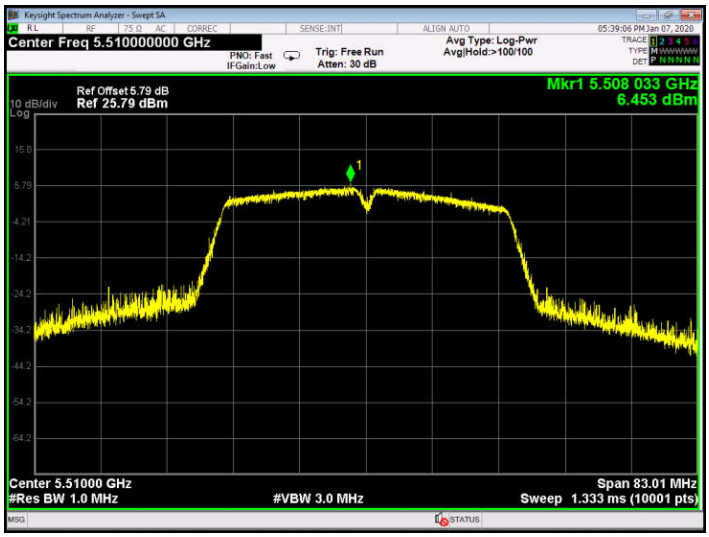


802.11 ac(VHT20) 5600 MHz

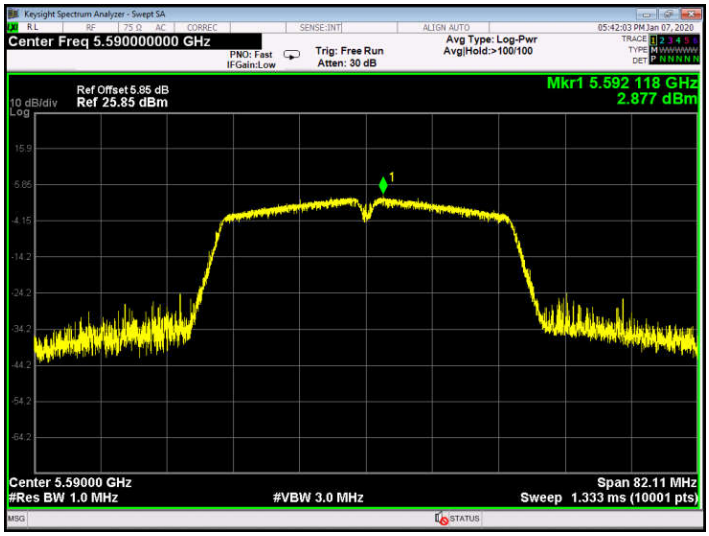
802.11 ac(VHT20) 5720 MHz



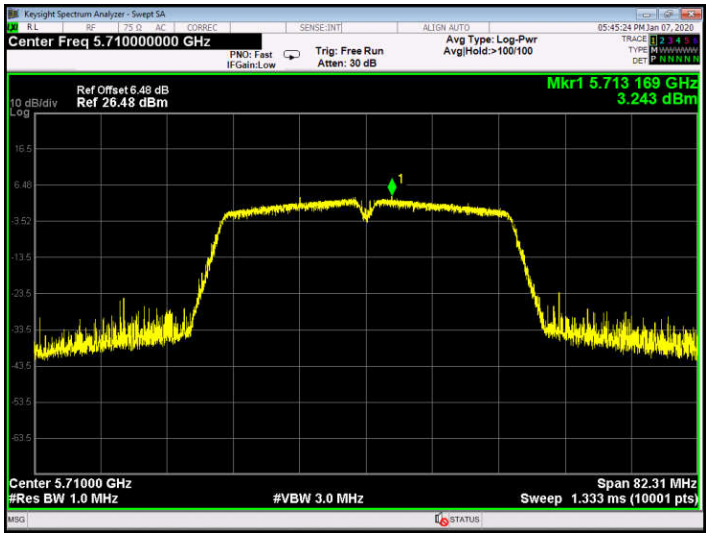
802.11 n(HT40) 5510 MHz



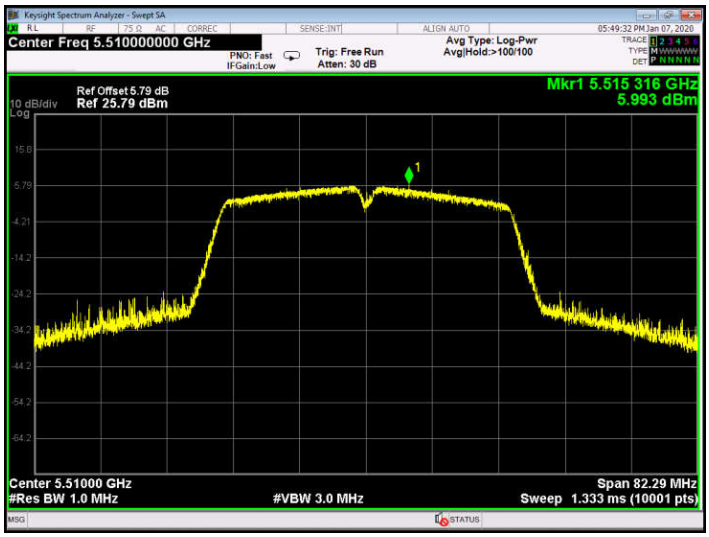
802.11 n(HT40) 5590 MHz



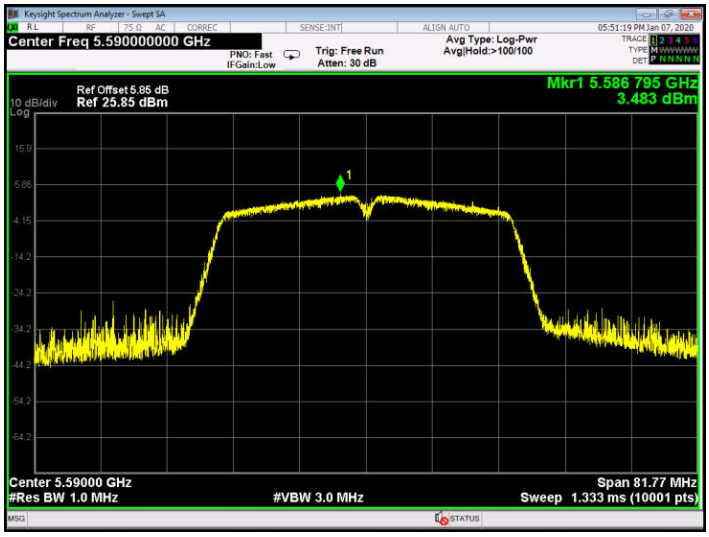
802.11 n(HT40) 5710 MHz



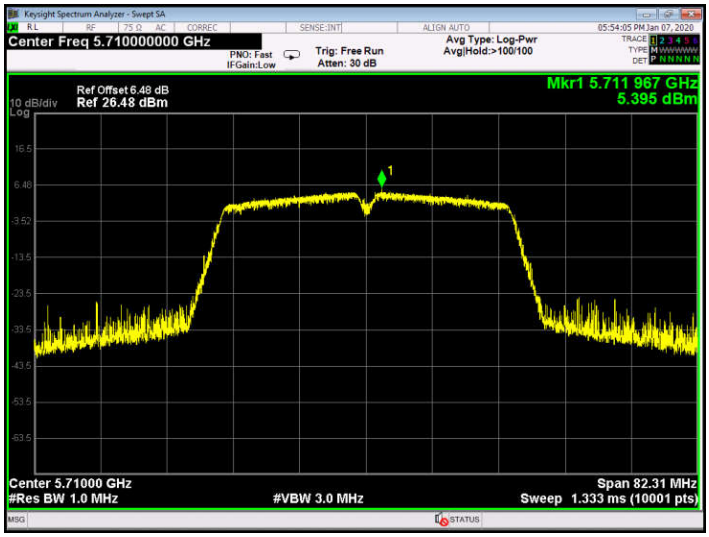
802.11 ac(VHT40) 5510 MHz



802.11 ac(VHT40) 5590 MHz

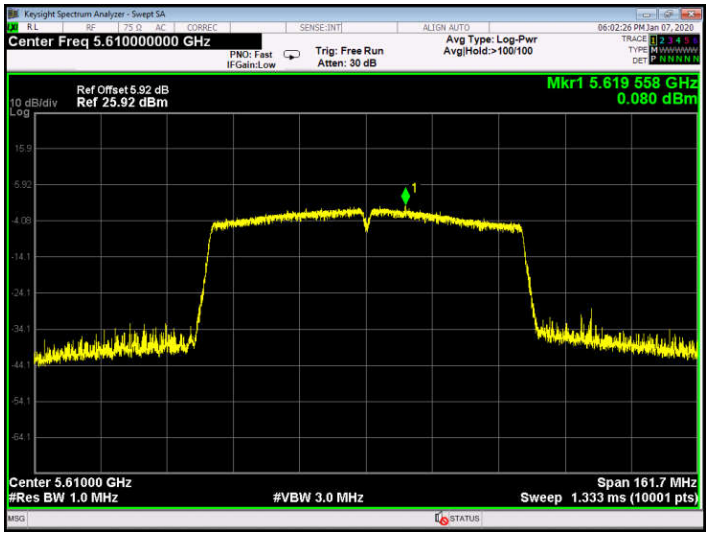


802.11 ac(VHT40) 5710 MHz

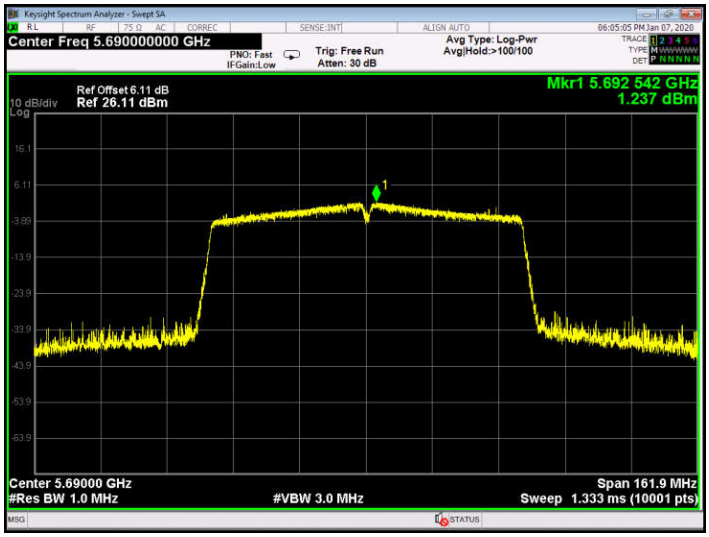


802.11 ac(VHT80) 5530 MHz

802.11 ac(VHT80) 5610 MHz



802.11 ac(VHT80) 5690 MHz



Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-2C

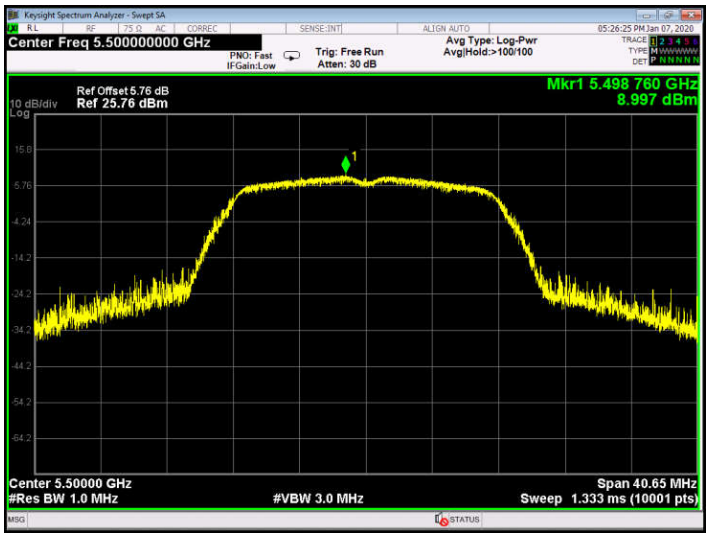
Test Mode	Frequency (MHz)	Power Density		Limit	
		(dBm/MHz)	(dBm/500KHz)	(dBm/MHz)	(dBm/500KHz)
802.11a 5720MHz Straddle 5.47-5.725GHz		8.997	-----	11	-----
802.11a 5720MHz Straddle 5.725-5.85GHz		-----	3.754	-----	30
802.11n(HT20) 5720MHz Straddle 5.47-5.725GHz		8.454	-----	11	-----
802.11n(HT20) 5720MHz Straddle 5.725-5.85GHz		-----	3.314	-----	30
802.11ac(VHT20) 5720MHz Straddle 5.47-5.725GHz		9.032	-----	11	-----
802.11ac(VHT20) 5720MHz Straddle 5.725-5.85GHz		-----	9.032	-----	30
802.11n(HT40) 5710MHz Straddle 5.47-5.725GHz		2.877	-----	11	-----
802.11n(HT40) 5710MHz Straddle 5.725-5.85GHz		-----	-4.425	-----	30
802.11ac(VHT40) 5710MHz Straddle 5.47-5.725GHz		3.483	-----	11	-----
802.11ac(VHT40) 5710MHz Straddle 5.725-5.85GHz		-----	-2.122	-----	30
802.11ac(VHT80) 5690MHz Straddle 5.47-5.725GHz		1.237	-----	11	-----
802.11ac(VHT80) 5690MHz Straddle 5.725-5.85GHz		-----	-4.396	-----	30

Result: PASS

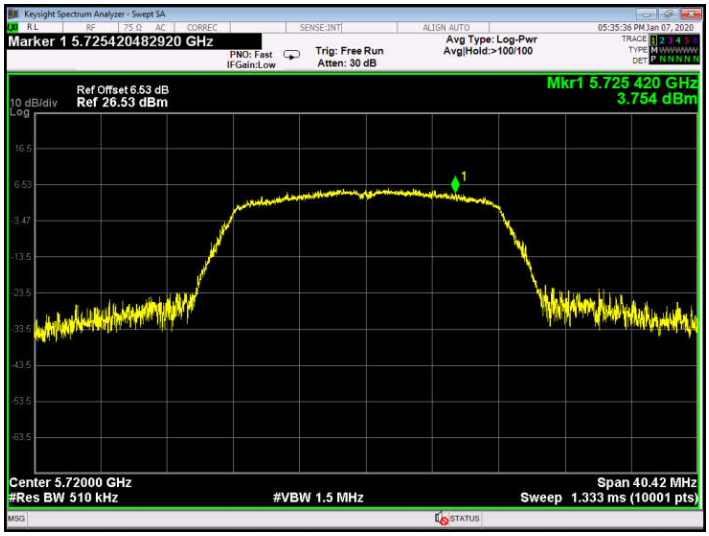
Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}

Test plots please refer to below pages:

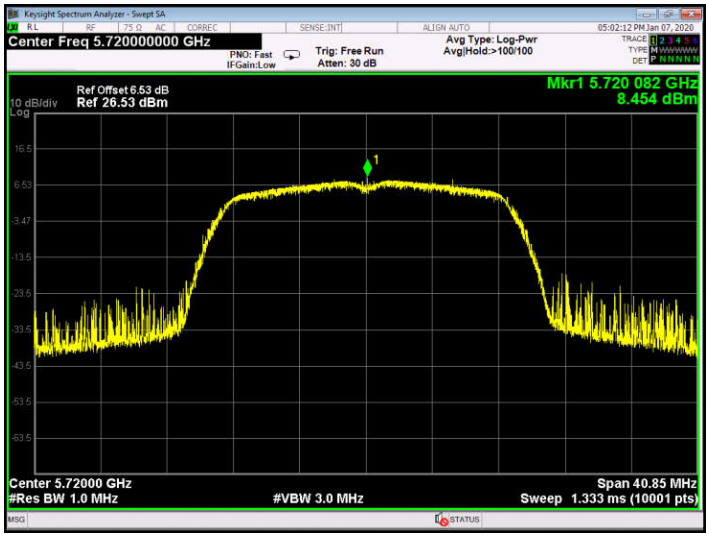
802.11a 5720MHz Straddle 5.47-5.725GHz



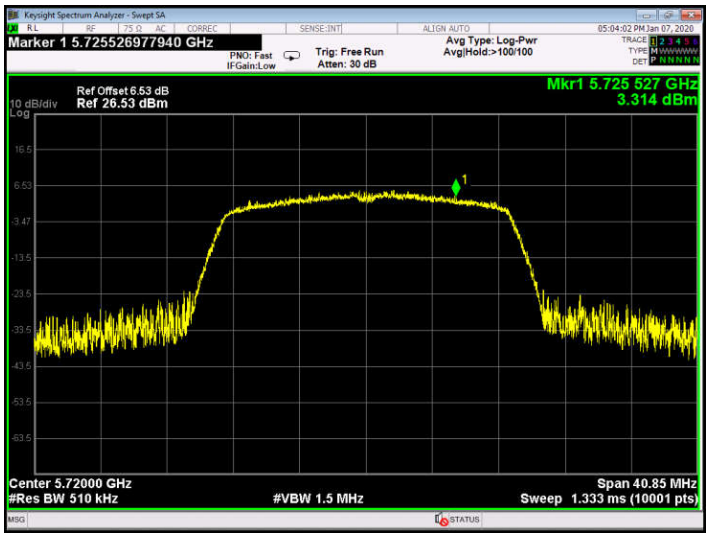
802.11a 5720MHz Straddle 5.725-5.85GHz



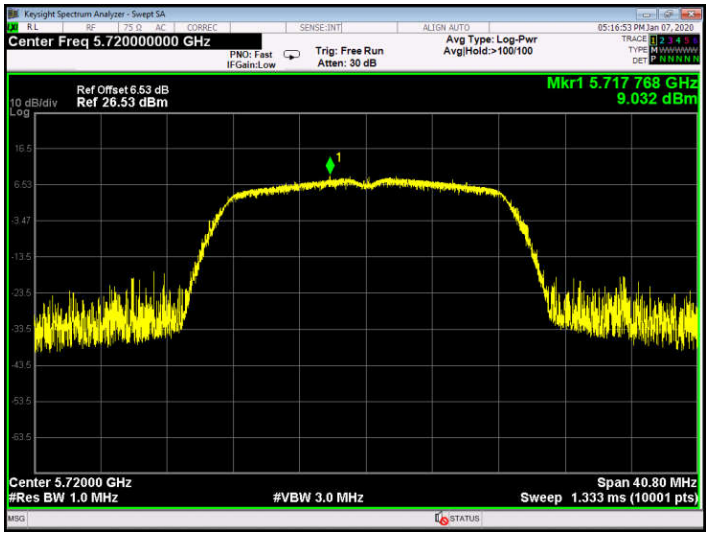
802.11n(HT20) 5720MHz Straddle 5.47-5.725GHz



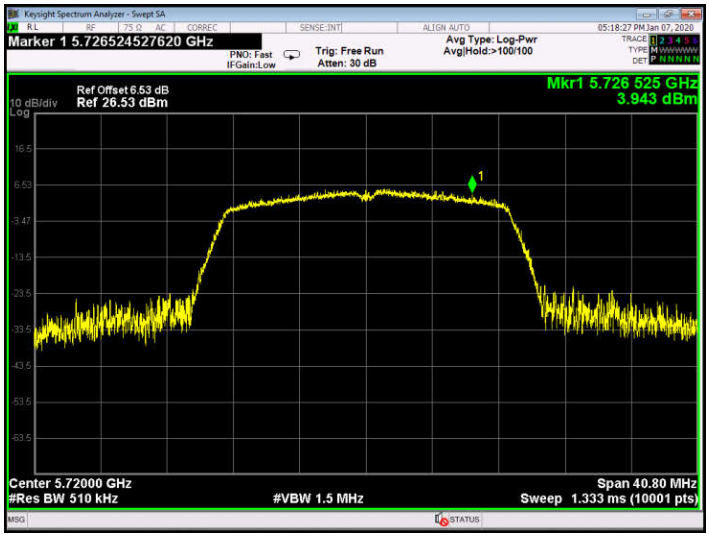
802.11n(HT20) 5720MHz Straddle 5.725-5.85GHz



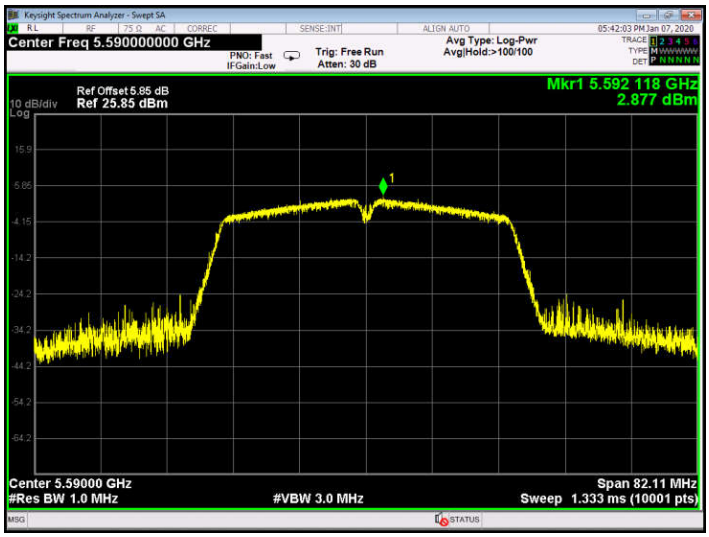
802.11ac(VHT20) 5720MHz Straddle 5.47-5.725GHz



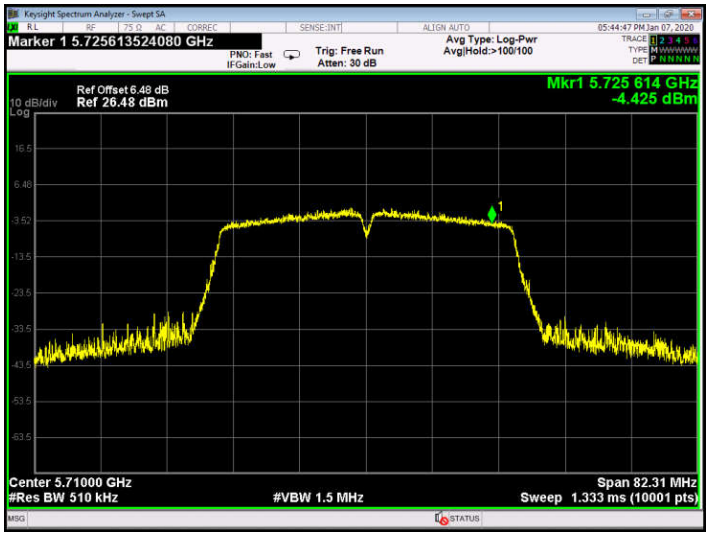
802.11ac(VHT20) 5720MHz Straddle 5.725-5.85GHz



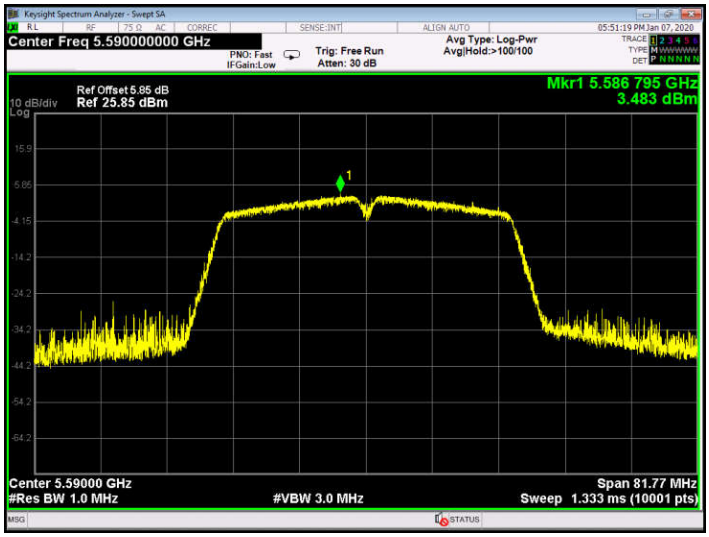
802.11n(HT40) 5710MHz Straddle 5.47-5.725GHz



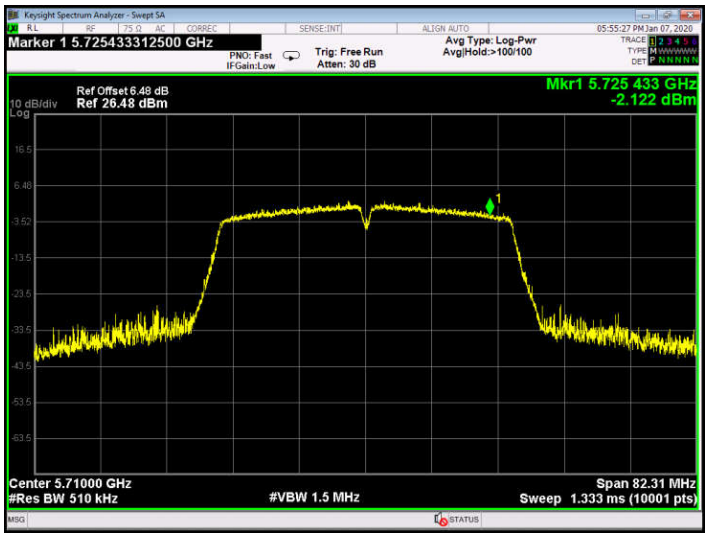
802.11n(HT40) 5710MHz Straddle 5.725-5.85GHz



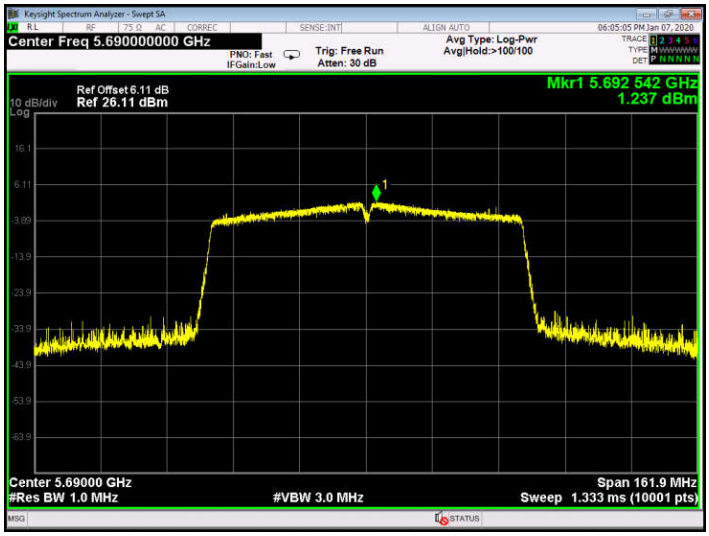
802.11ac(VHT40) 5710MHz Straddle 5.47-5.725GHz



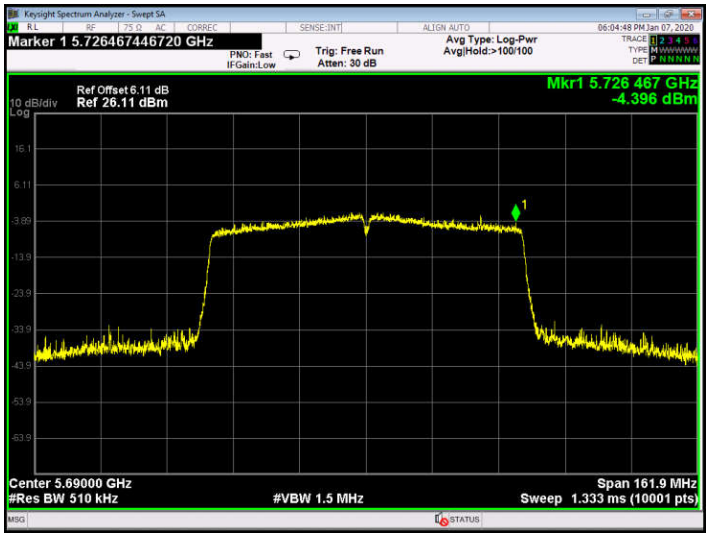
802.11ac(VHT40) 5710MHz Straddle 5.725-5.85GHz



802.11ac(VHT80) 5690MHz Straddle 5.47-5.725GHz



802.11ac(VHT80) 5690MHz Straddle 5.725-5.85GHz



Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-3

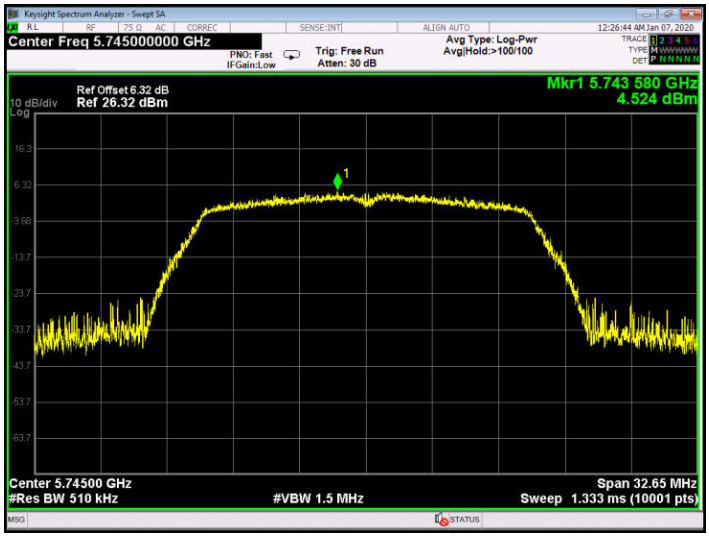
Test Mode	Frequency (MHz)	Test Data Power Density (dBm/500KHz)	Limit (dBm/500KHz)
802.11a	5745	4.524	30
	5785	4.931	
	5825	2.773	
802.11n (HT20)	5745	5.514	
	5785	4.200	
	5825	3.586	
802.11ac (VHT20)	5745	1.550	
	5785	2.466	
	5825	3.254	
802.11n (HT40)	5755	-0.611	
	5795	0.451	
802.11ac(VHT40)	5755	0.143	
	5795	0.966	
802.11ac(VHT80)	5775	-2.608	

Result: PASS

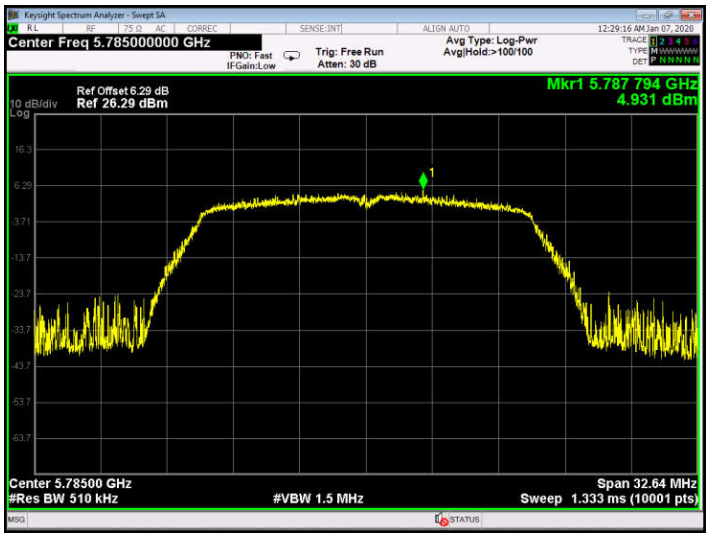
Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}

Test plots please refer to below pages:

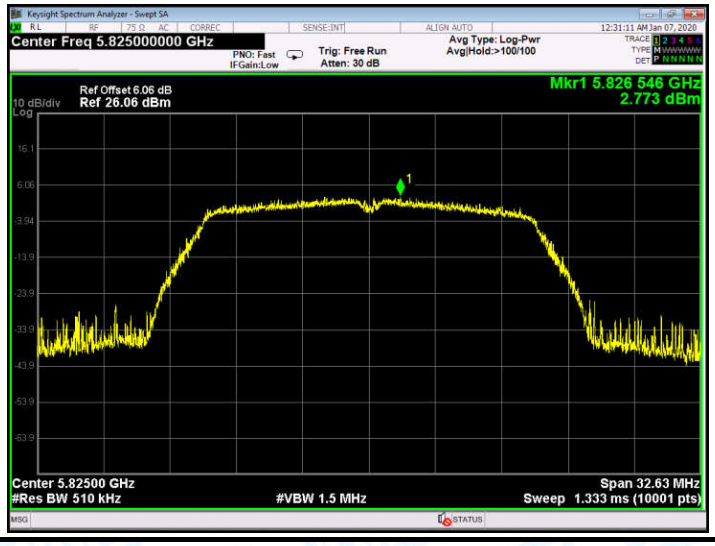
802.11 a 5745 MHz



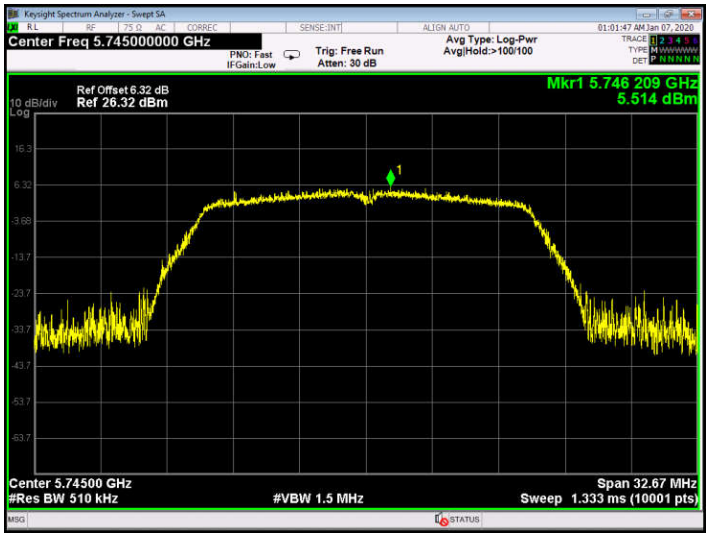
802.11 a 5785 MHz



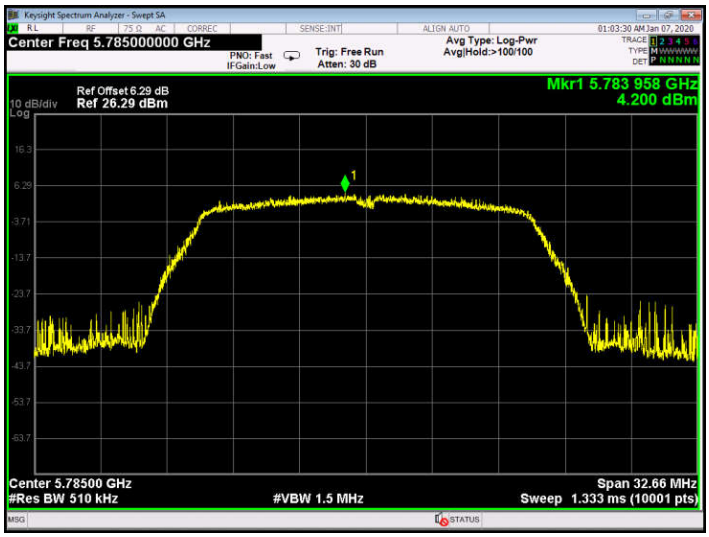
802.11 a 5825 MHz



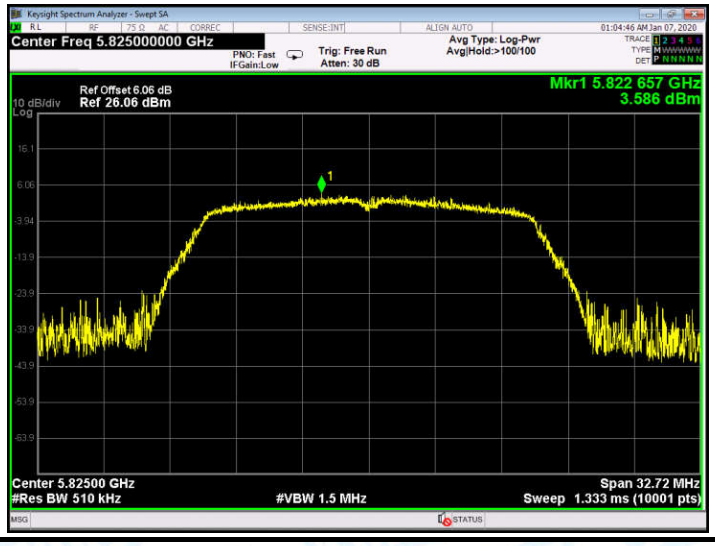
802.11 n(HT20) 5745 MHz



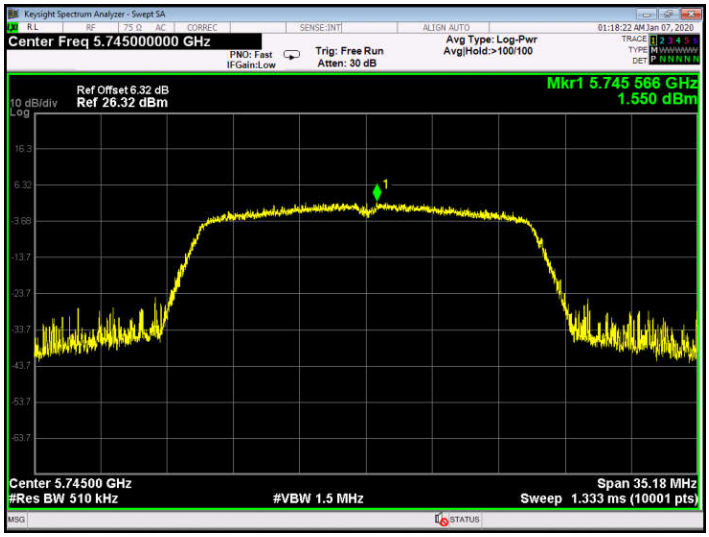
802.11 n(HT20) 5785 MHz



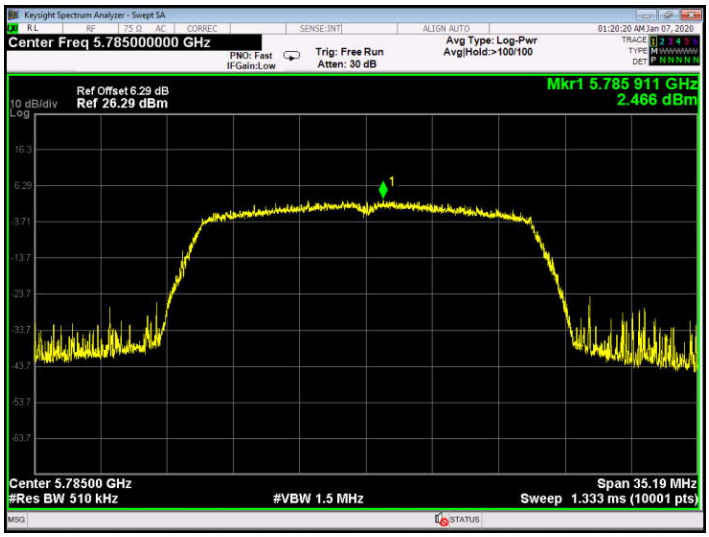
802.11 n(HT20) 5825 MHz



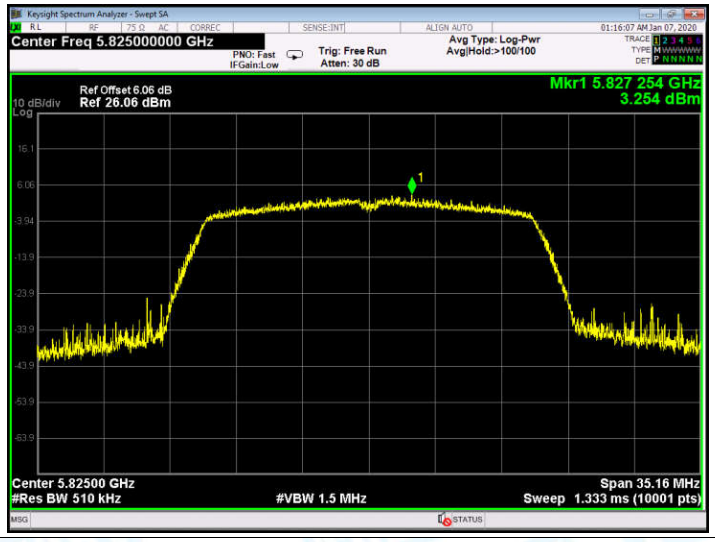
802.11 ac(VHT20) 5745 MHz



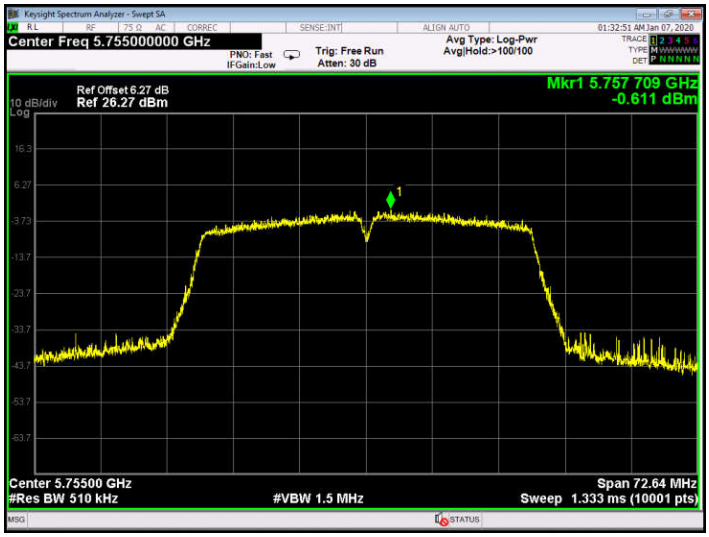
802.11 ac(VHT20) 5785 MHz



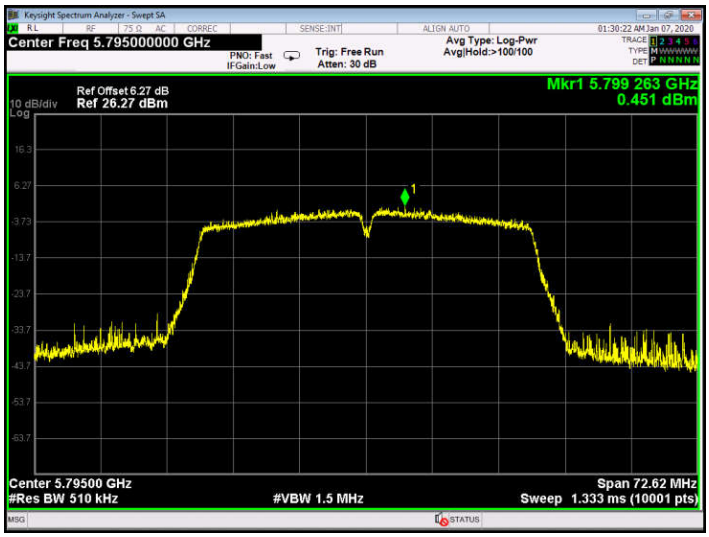
802.11 ac(VHT20) 5825 MHz



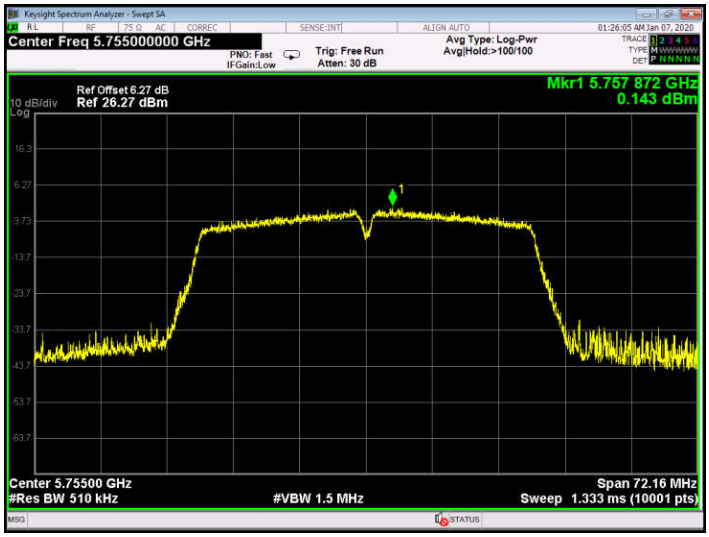
802.11 n(HT40) 5755 MHz



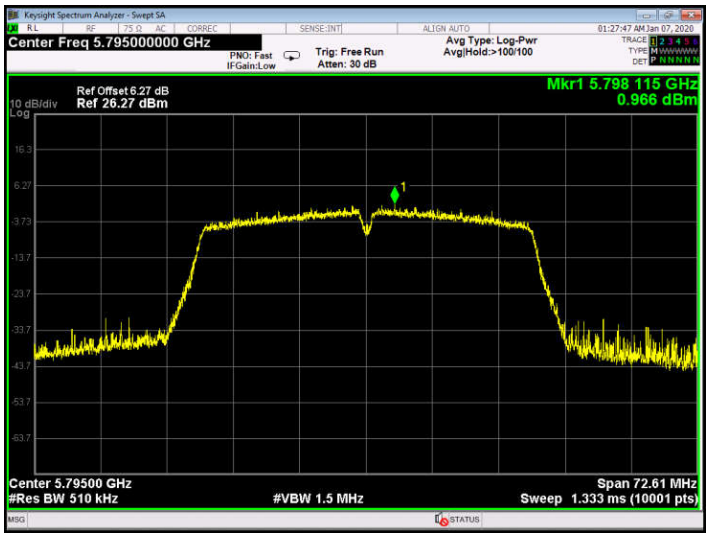
802.11 n(HT40) 5795 MHz



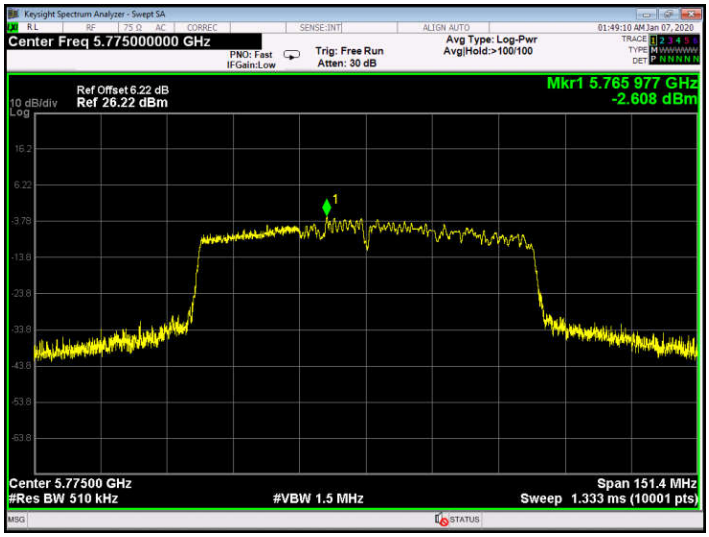
802.11 ac(VHT40) 5755 MHz



802.11 ac(VHT40) 5795 MHz



802.11 ac(VHT80) 5775 MHz



Attachment G----Frequency Stability Measurement Data

Only show the worst case 802.11 a Mode 5180MHz.

801.11a U-NII-1: 5180 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	**Measurement Frequency (MHz)**
132	5180.0500
120	5180.0400
118	5180.0400
Limit Range (MHz)	5150-5250
Result	PASS
Temperature vs. Frequency Stability	
Temperature (℃)	**Measurement Frequency (MHz)**
0	5180.0300
10	5180.0500
20	5180.0500
30	5180.0500
40	5180.0100
50	5180.0300
Limit Range (MHz)	5150-5250
Result	PASS

Only show the worst case 802.11 a Mode 5260MHz.

801.11a U-NII-2A: 5260 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	**Measurement Frequency (MHz)**
132	5280.0027
120	5280.0055
118	5280.0035
Limit Range (MHz)	5250-5350
Result	PASS
Temperature vs. Frequency Stability	
Temperature (℃)	**Measurement Frequency (MHz)**
0	5280.0076
10	5280.0025
20	5280.0047
30	5280.0034
40	5280.0046
50	5280.0045
Limit Range (MHz)	5250-5350
Result	PASS

Only show the worst case 802.11 a Mode 5500MHz.

801.11a U-NII-2C: 5500 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	**Measurement Frequency (MHz)**
132	5499.9944
120	5499.9955
118	5499.9945
Limit Range (MHz)	5470-5725
Result	PASS
Temperature vs. Frequency Stability	
Temperature (℃)	**Measurement Frequency (MHz)**
0	5499.9925
10	5499.9935
20	5499.9944
30	5499.9954
40	5499.9915
50	5499.9936
Limit Range (MHz)	5470-5725
Result	PASS

Only show the worst case 802.11 a Mode 5745MHz.

801.11a U-NII-3: 5745 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	**Measurement Frequency (MHz)**
132	5745.0500
120	5745.0500
118	5744.0100
Limit Range (MHz)	5725-5850
Result	PASS
Temperature vs. Frequency Stability	
Temperature (℃)	**Measurement Frequency (MHz)**
0	5745.0300
10	5745.0100
20	5745.0500
30	5745.0400
40	5745.0500
50	5745.0400
Limit Range (MHz)	5725-5850
Result	PASS

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