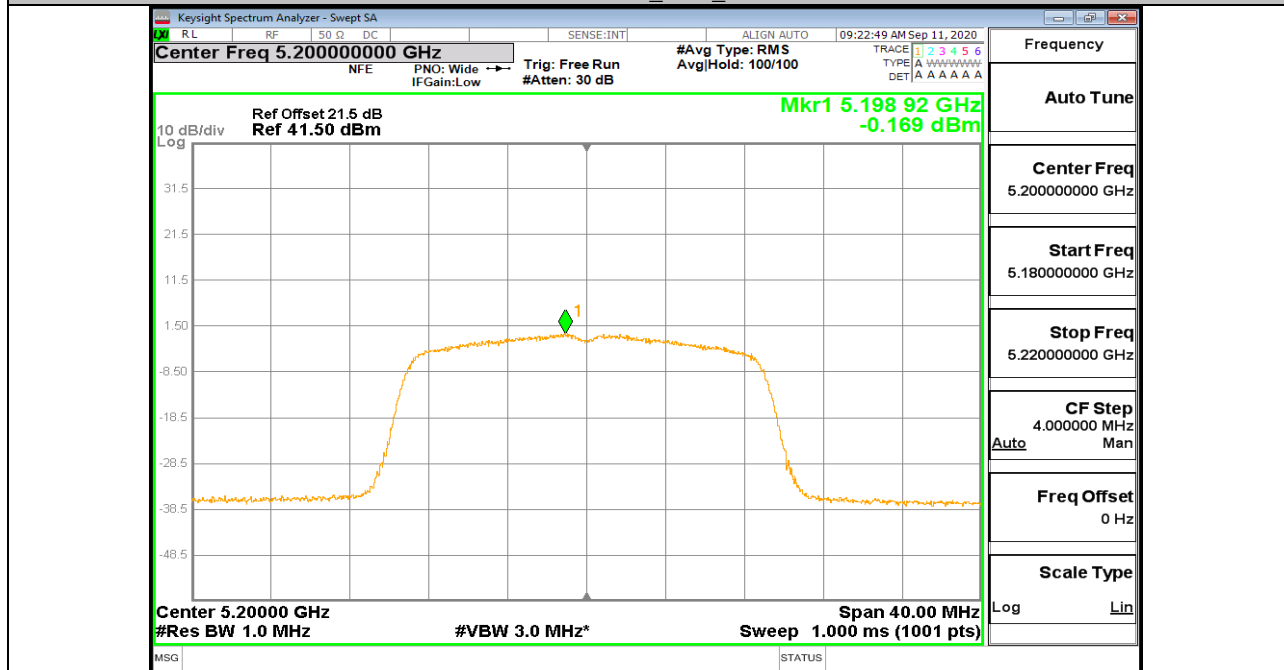
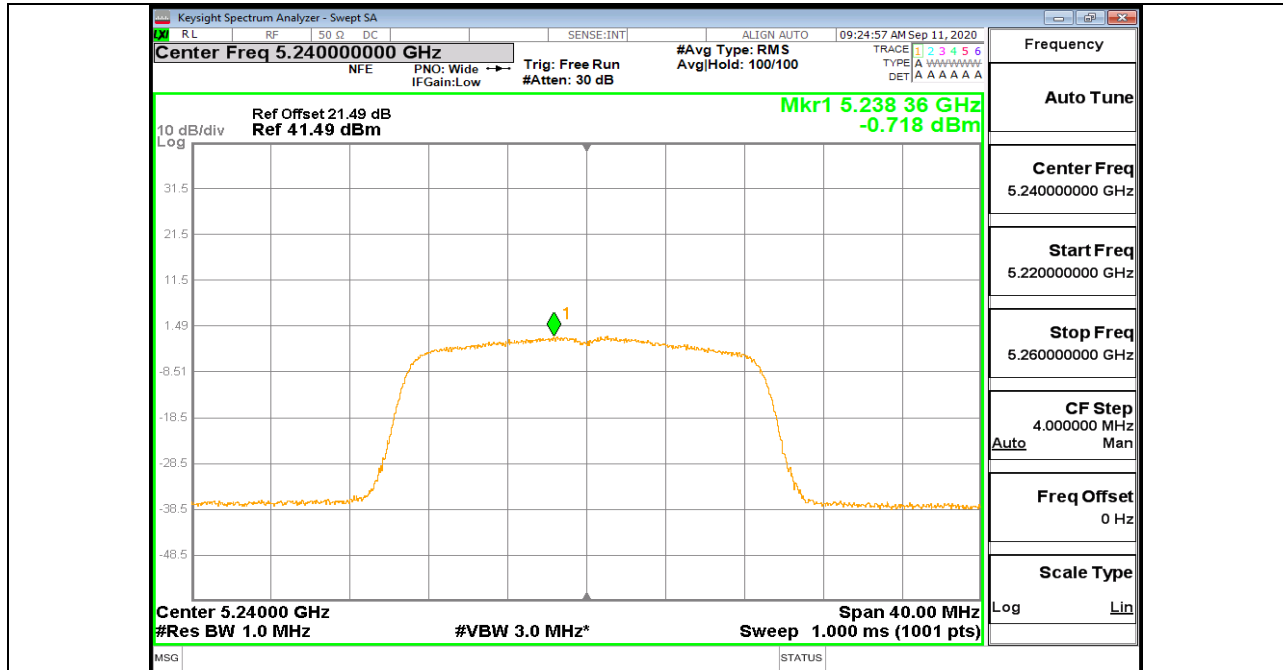


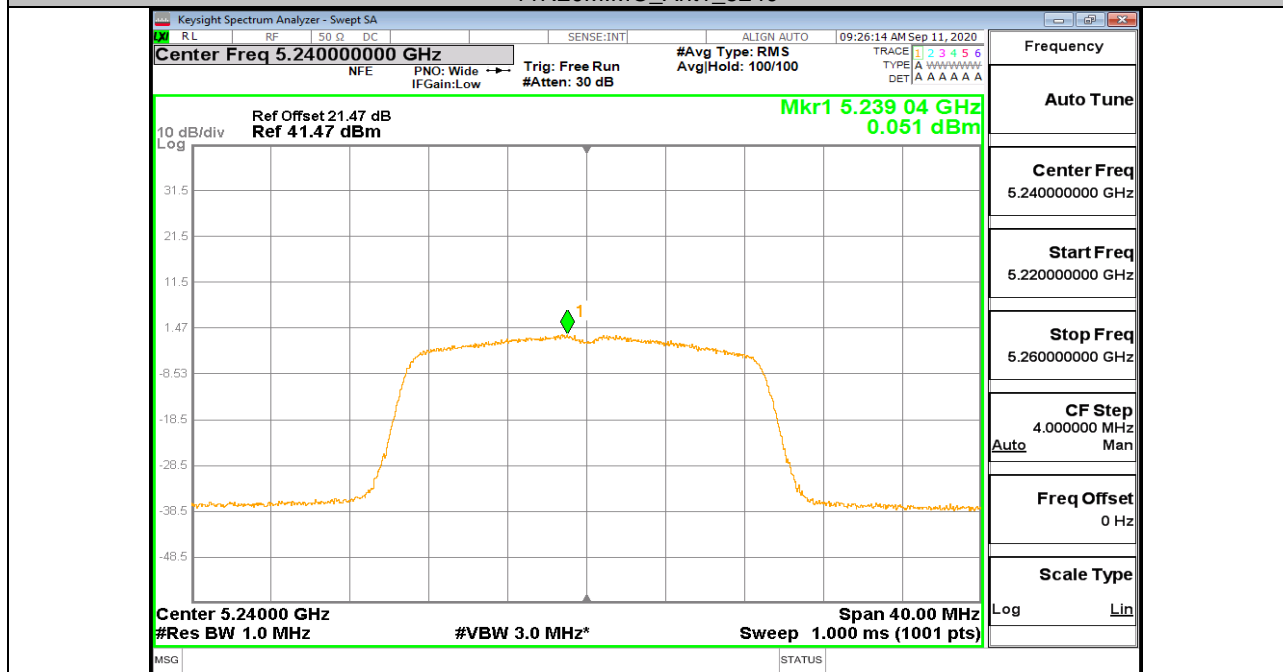
11N20MIMO_Ant1_5200



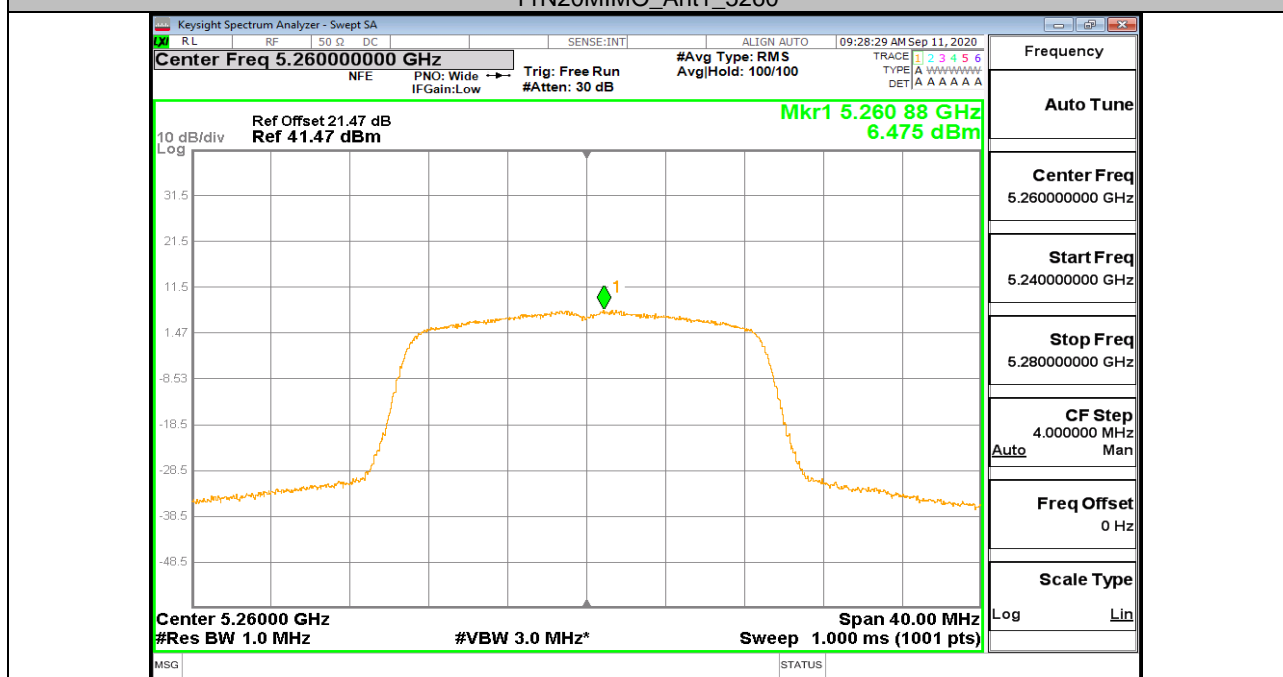
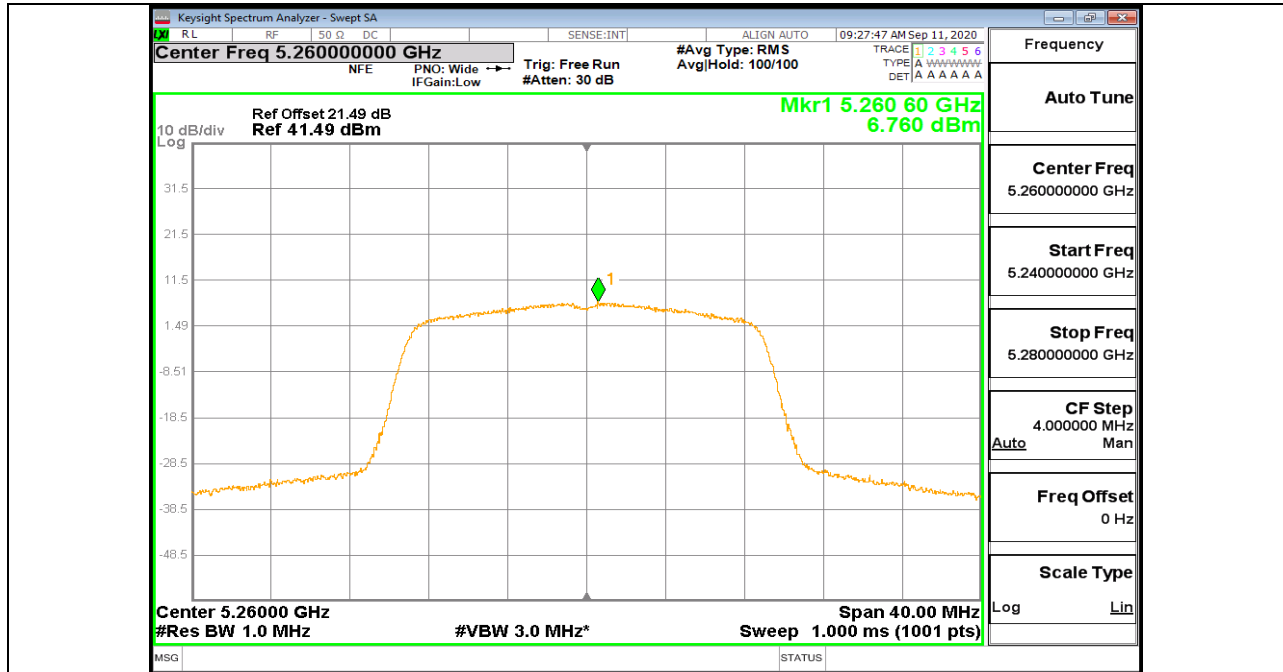
11N20MIMO_Ant2_5200

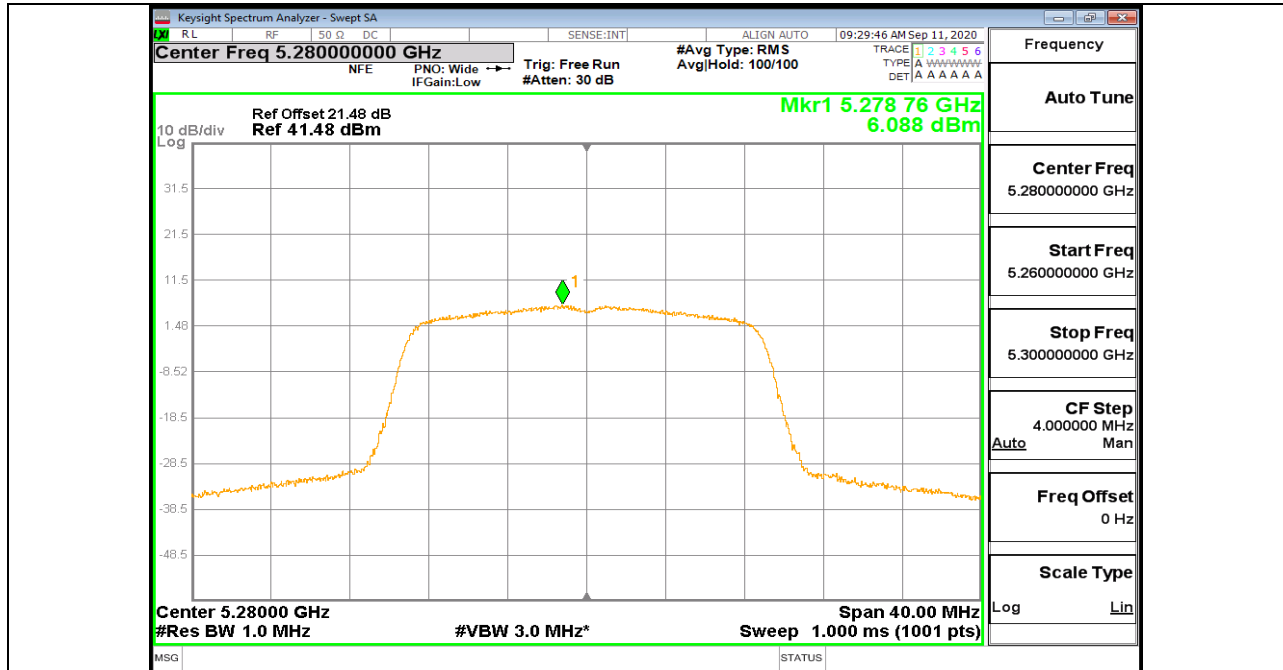


11N20MIMO_Ant1_5240

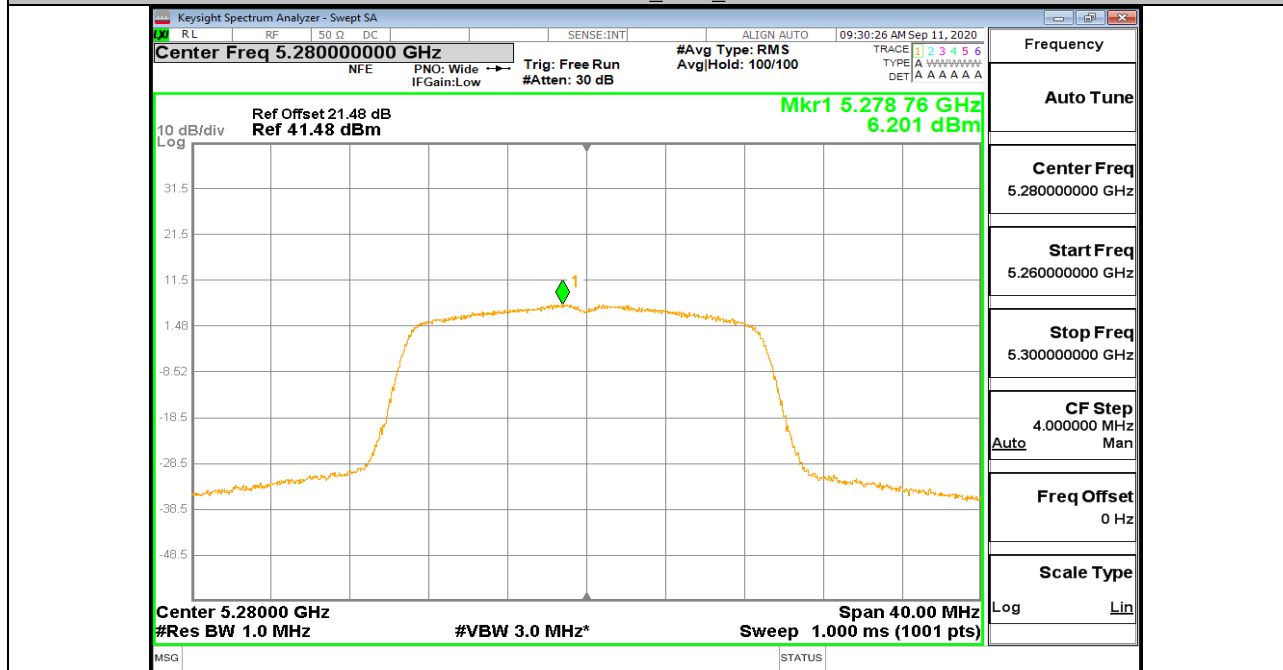


11N20MIMO_Ant2_5240

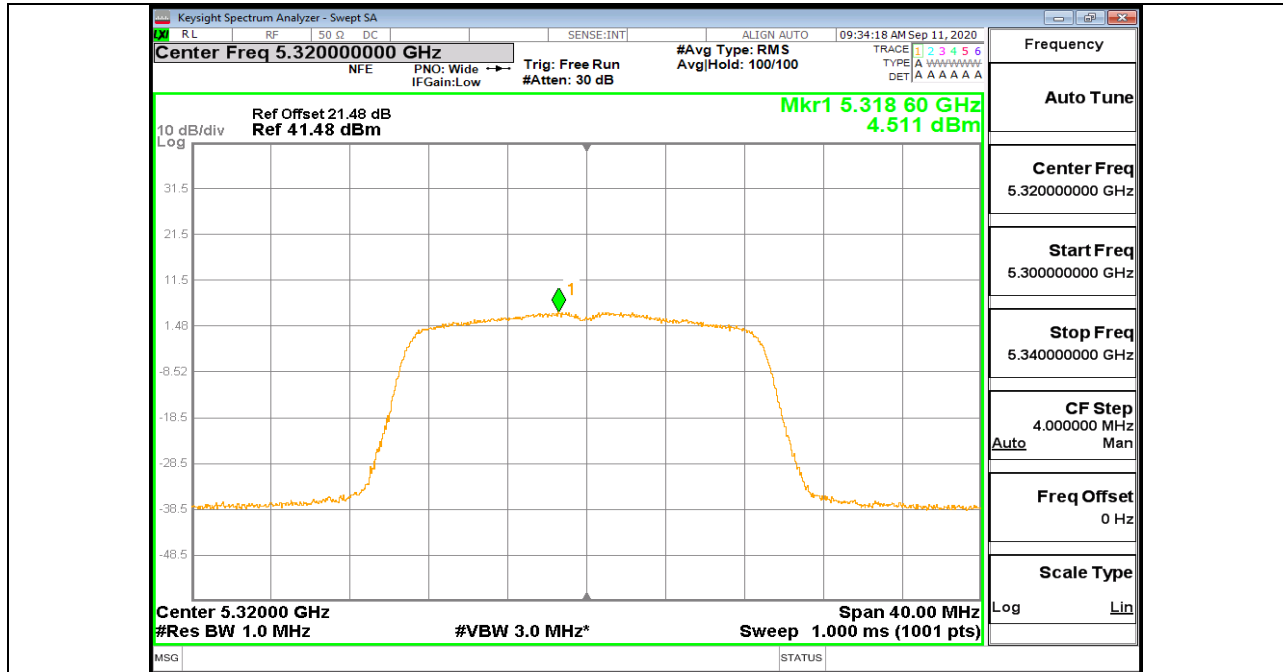




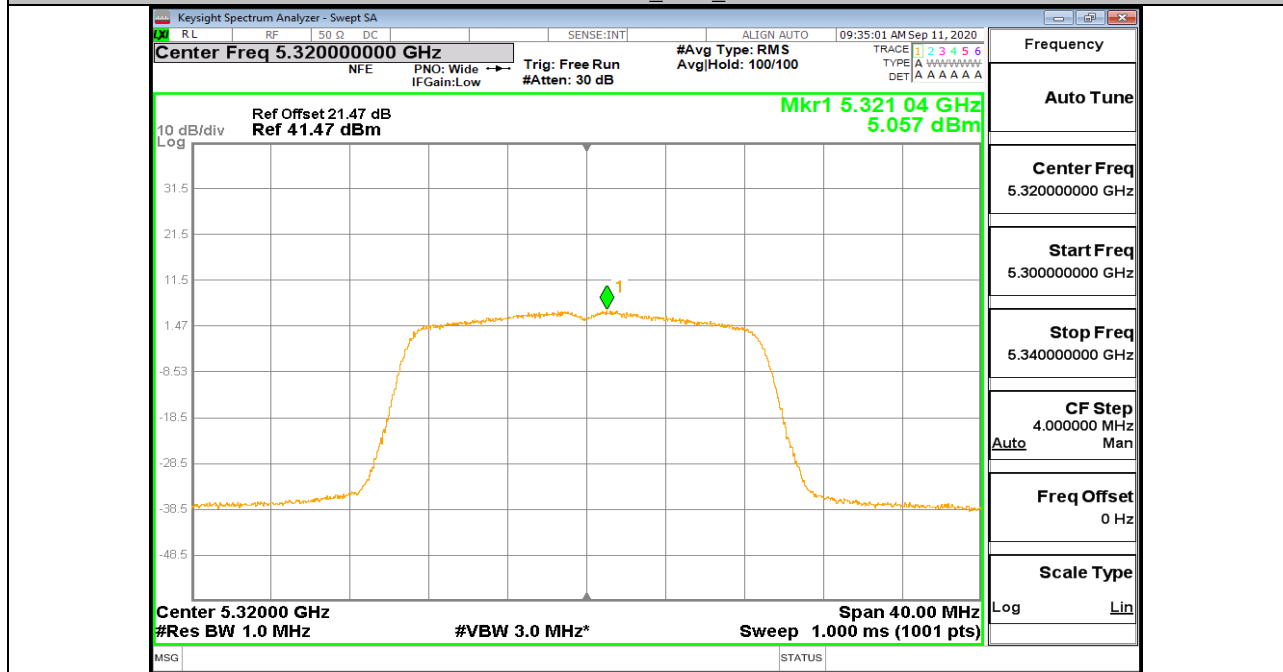
11N20MIMO_Ant1_5280



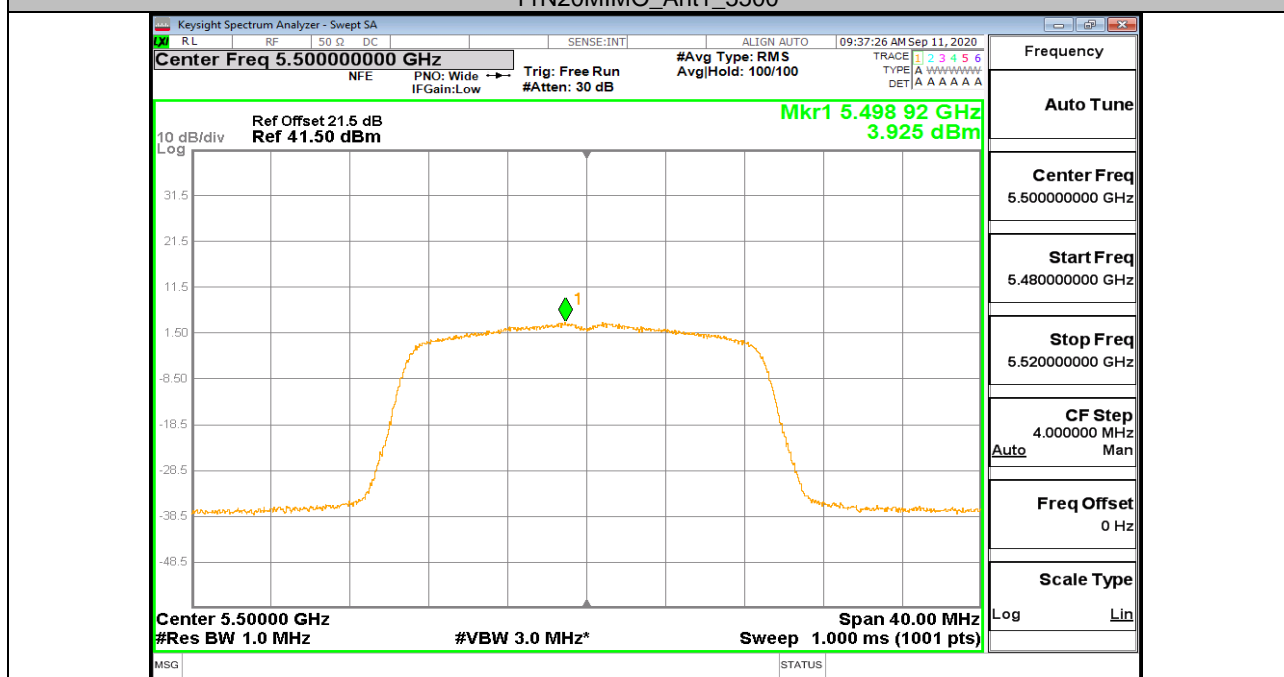
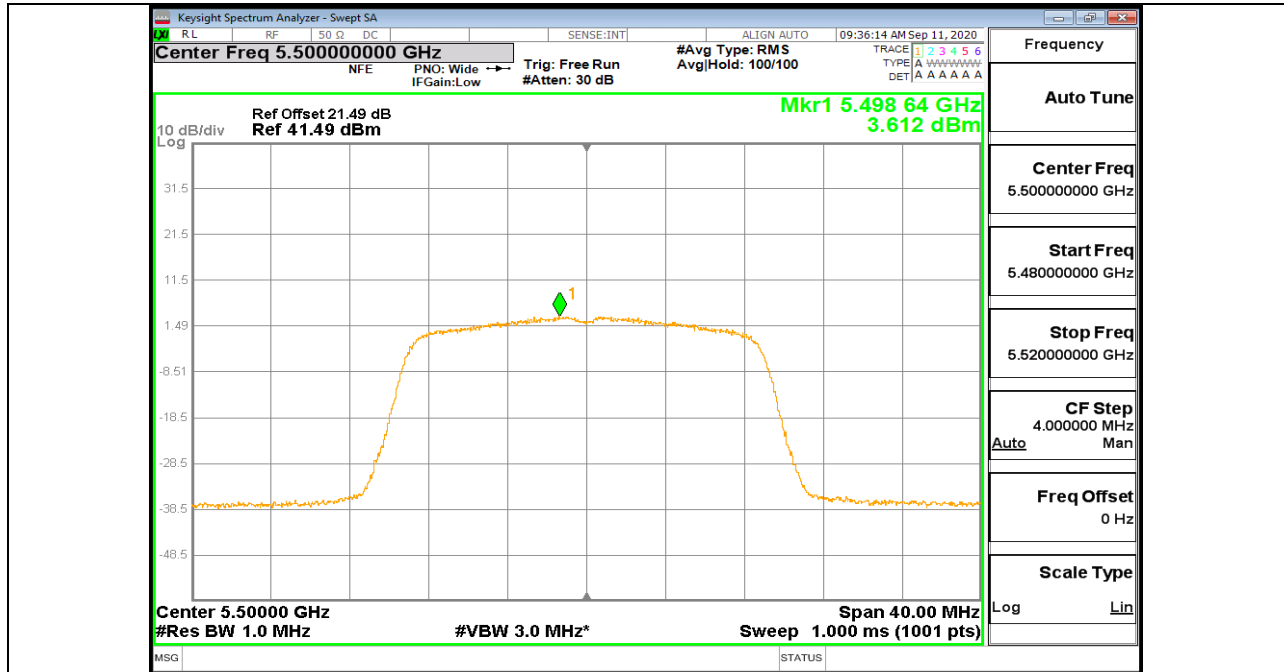
11N20MIMO_Ant2_5280

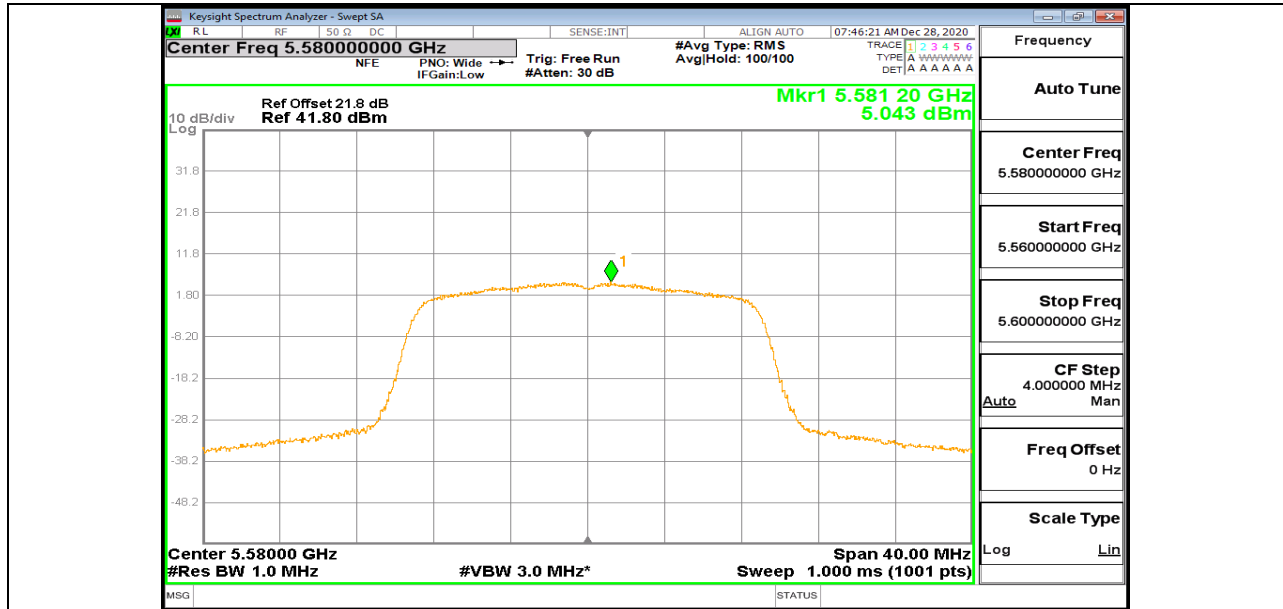


11N20MIMO_Ant1_5320

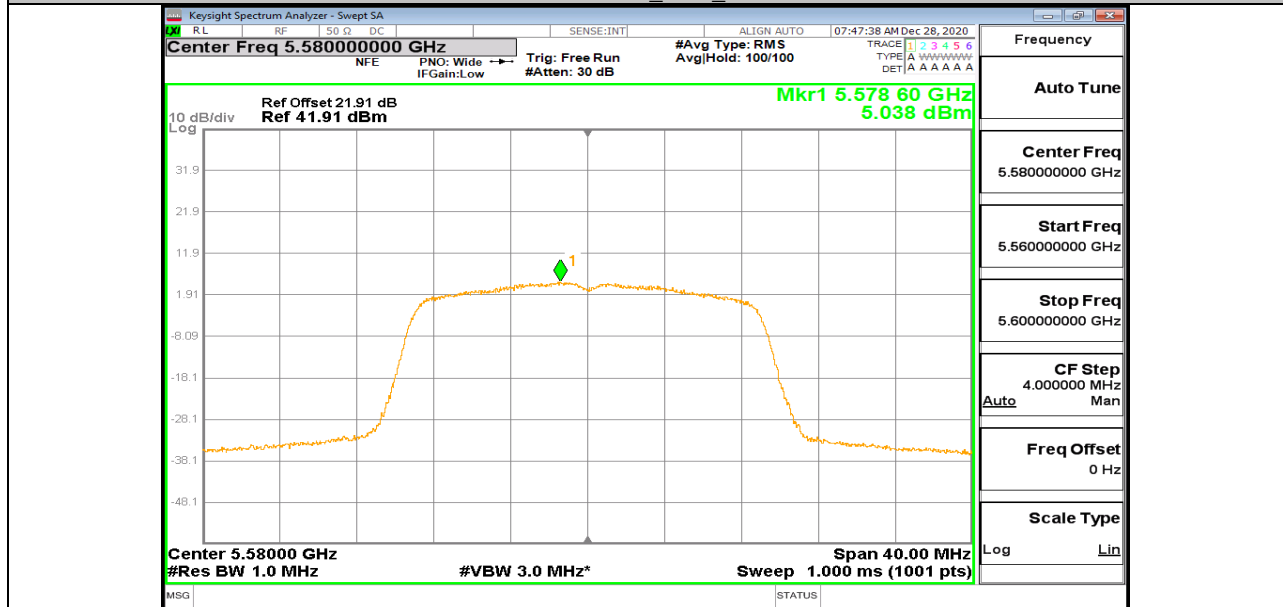


11N20MIMO_Ant2_5320

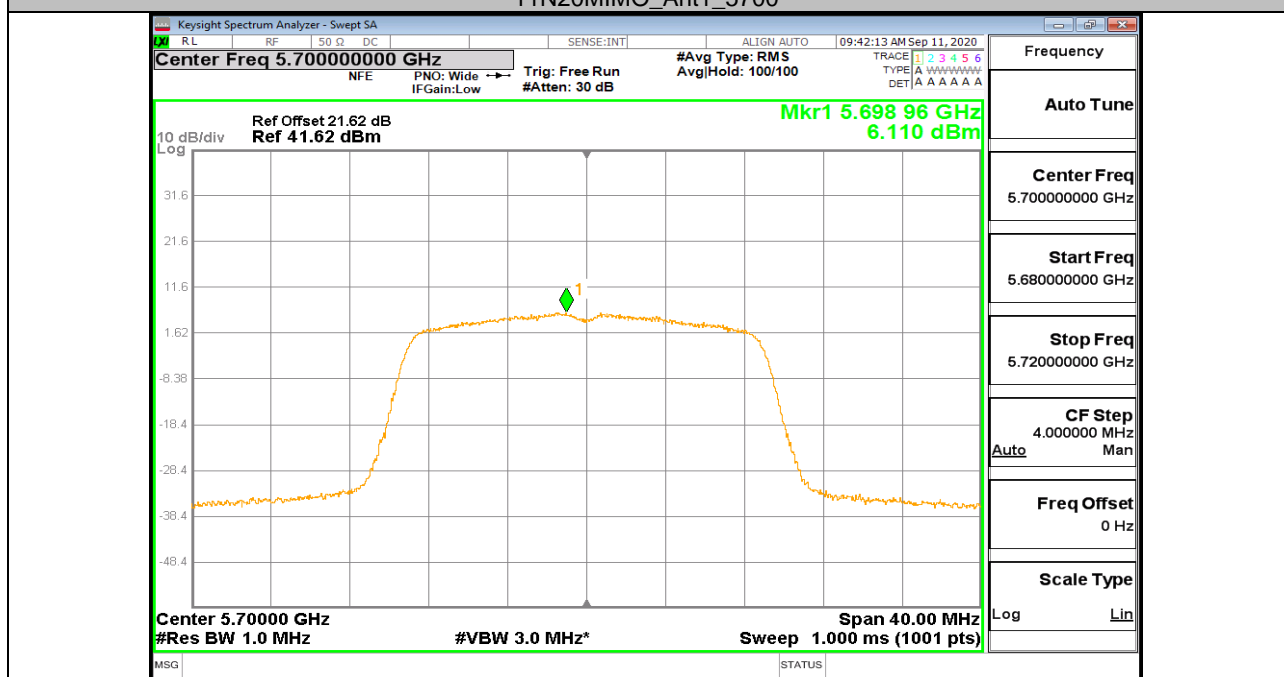
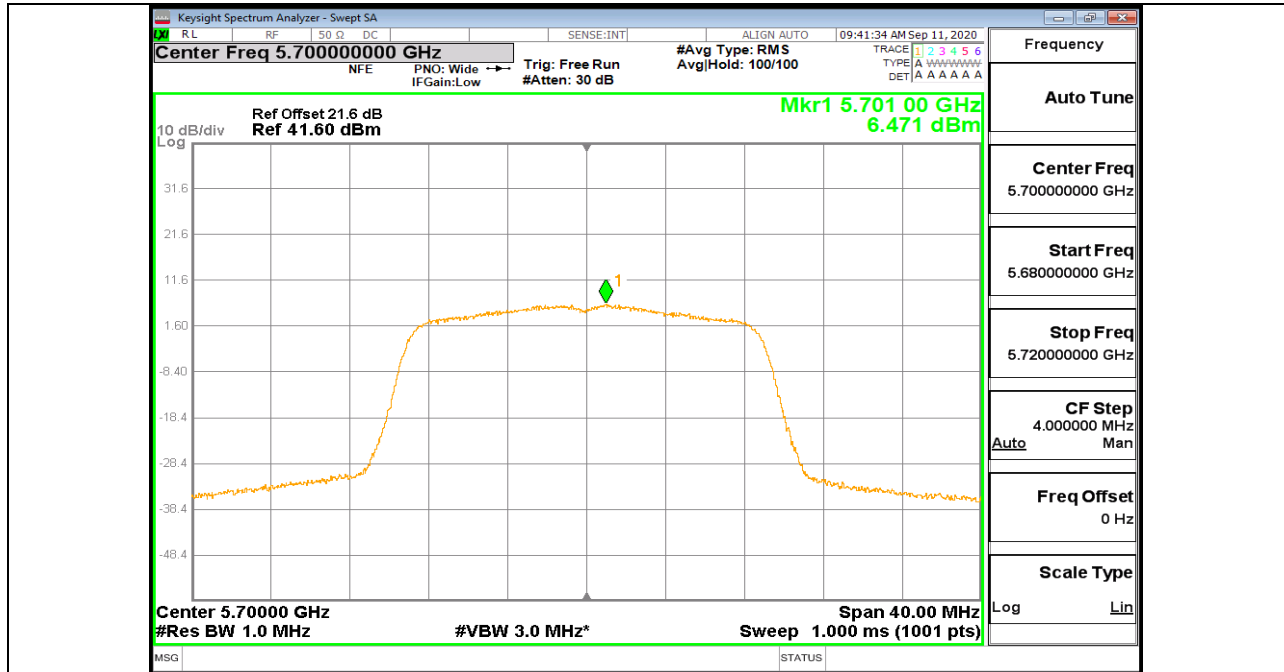


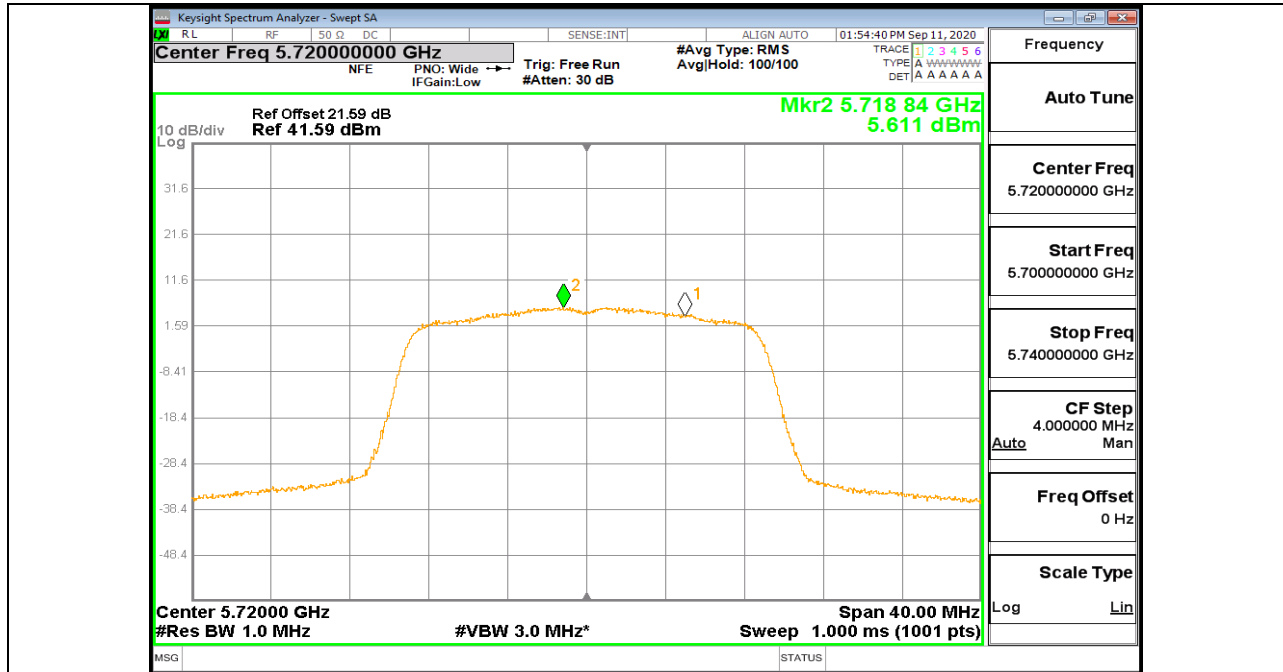


11N20MIMO_Ant1_5580

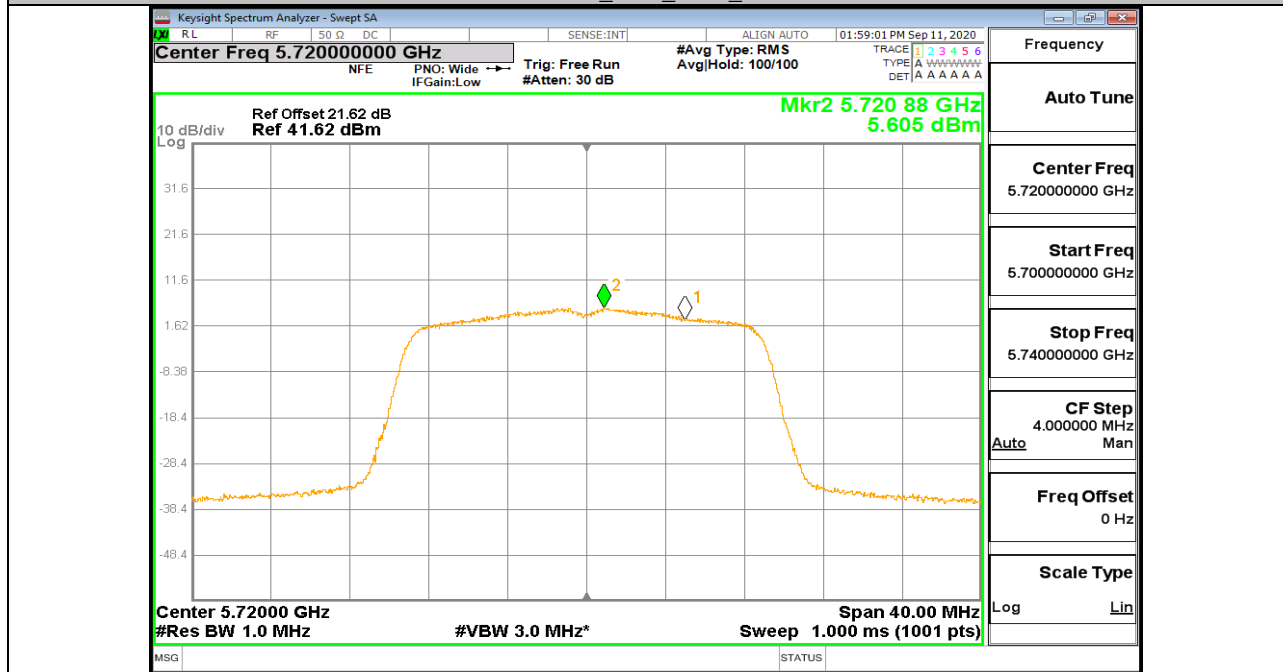


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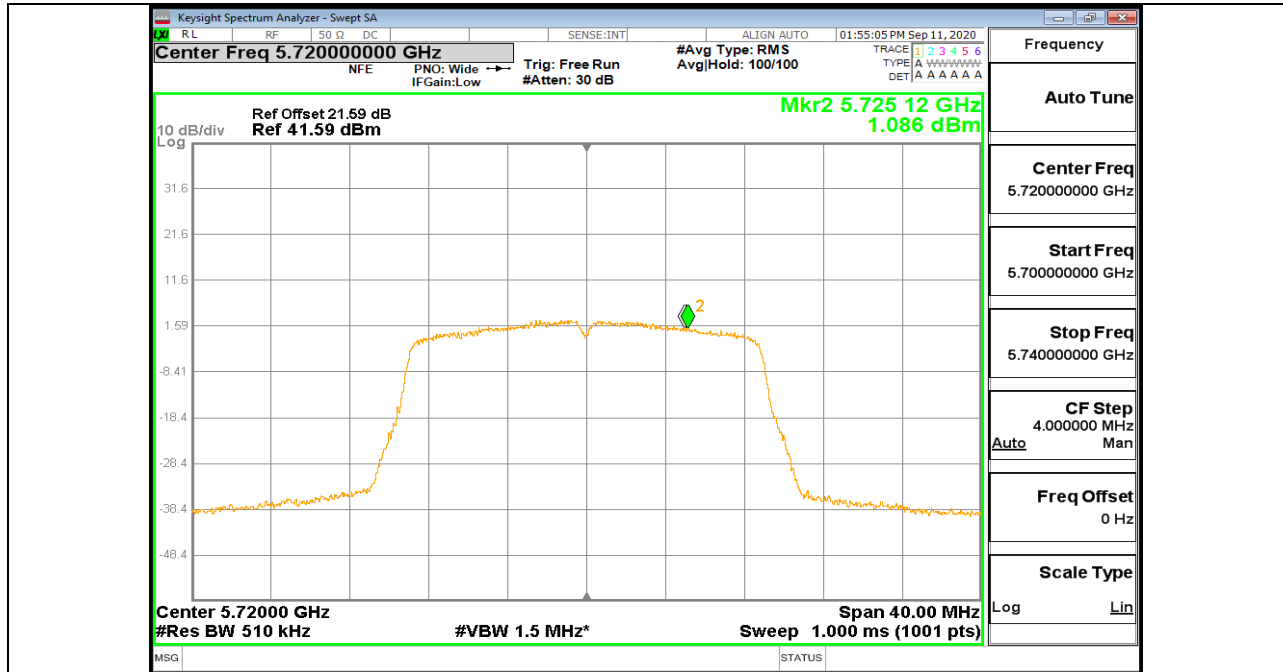




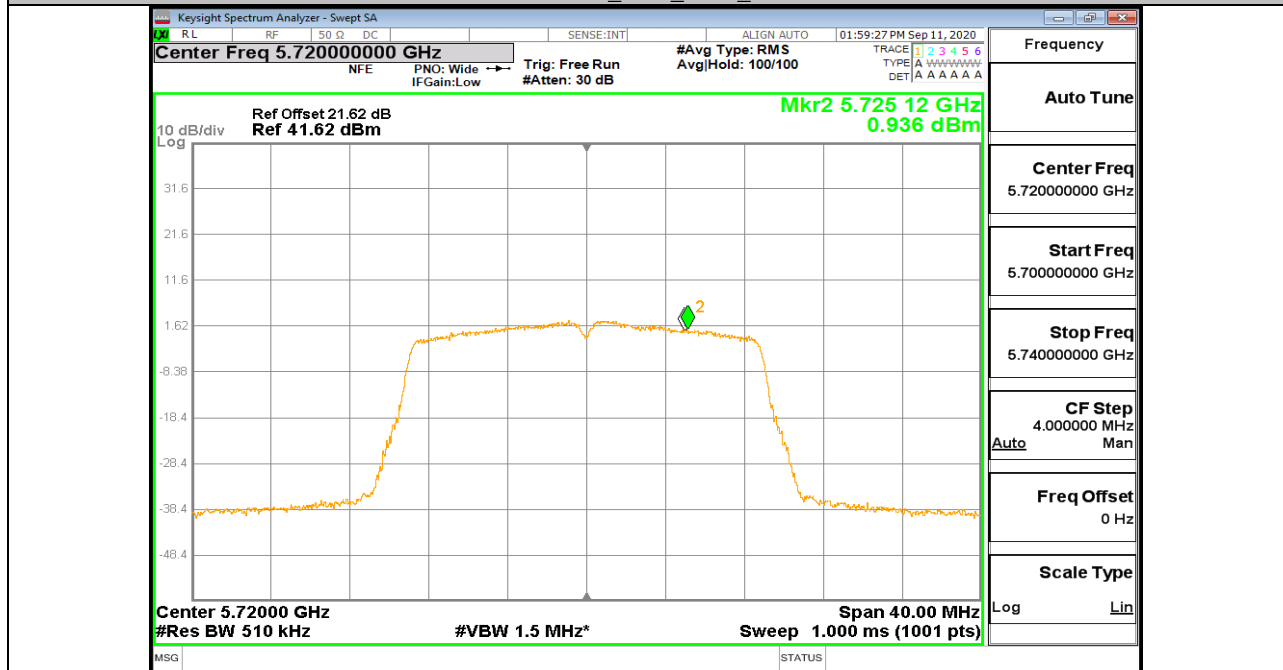
11N20MIMO_Ant1_5720_UNII-2C



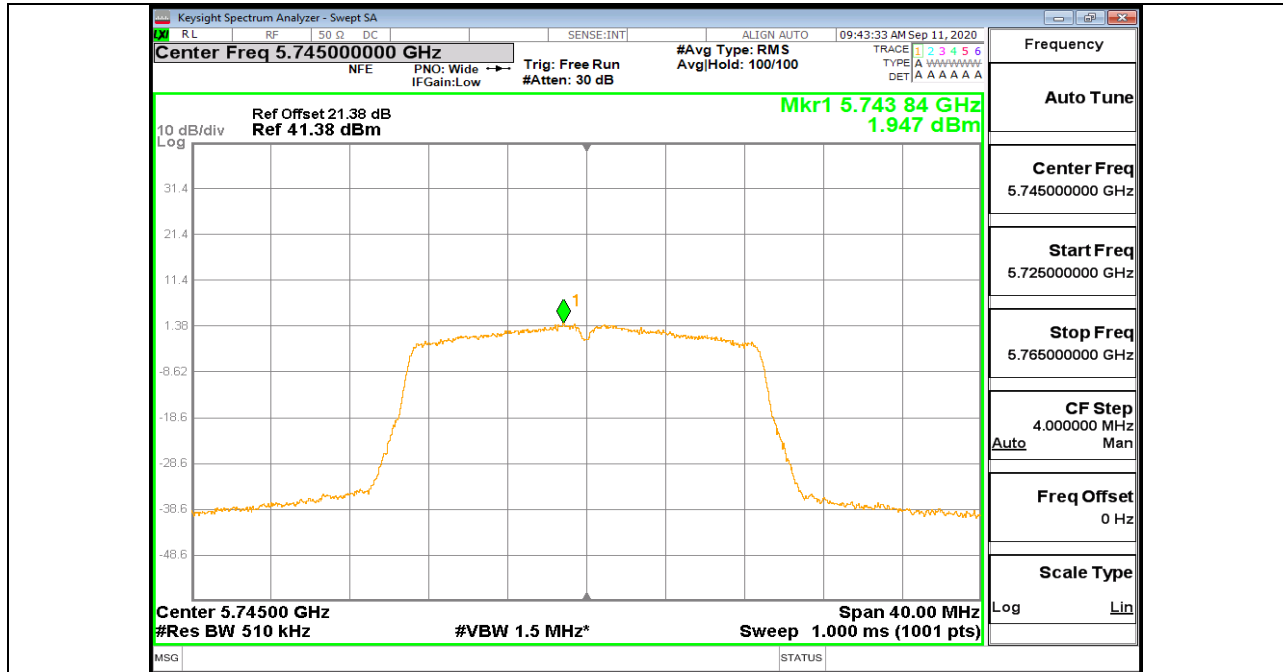
11N20MIMO_Ant2_5720_UNII-2C



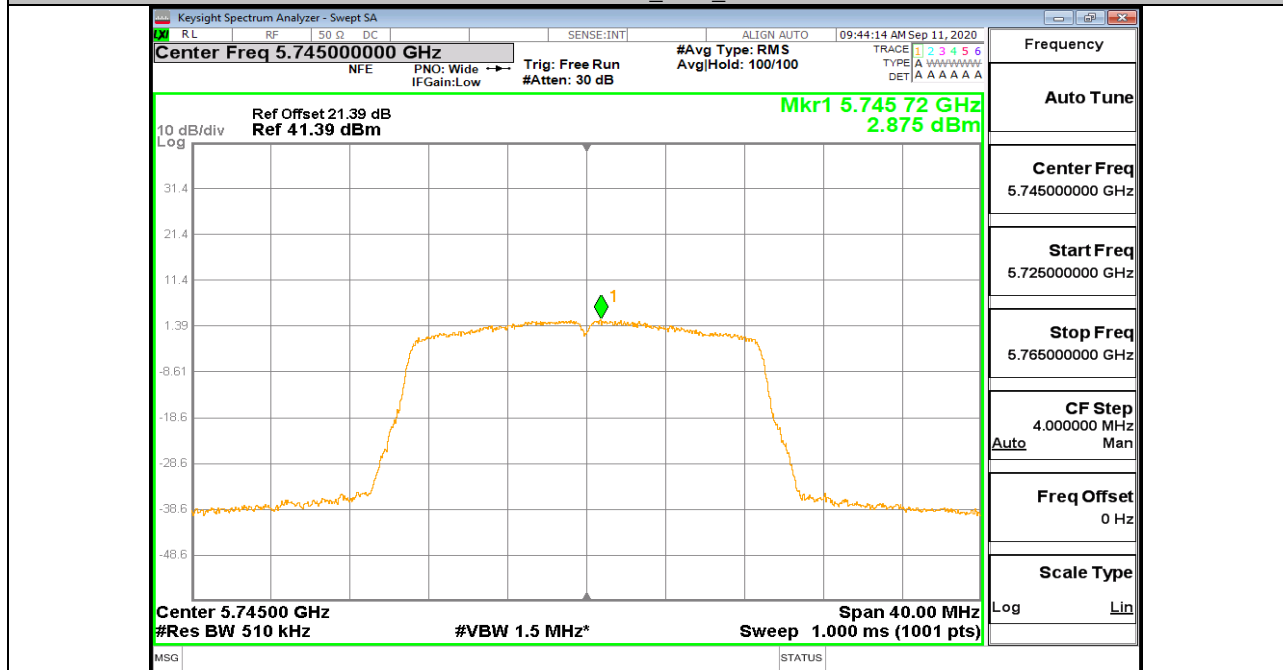
11N20MIMO_Ant1_5720_UNII-3



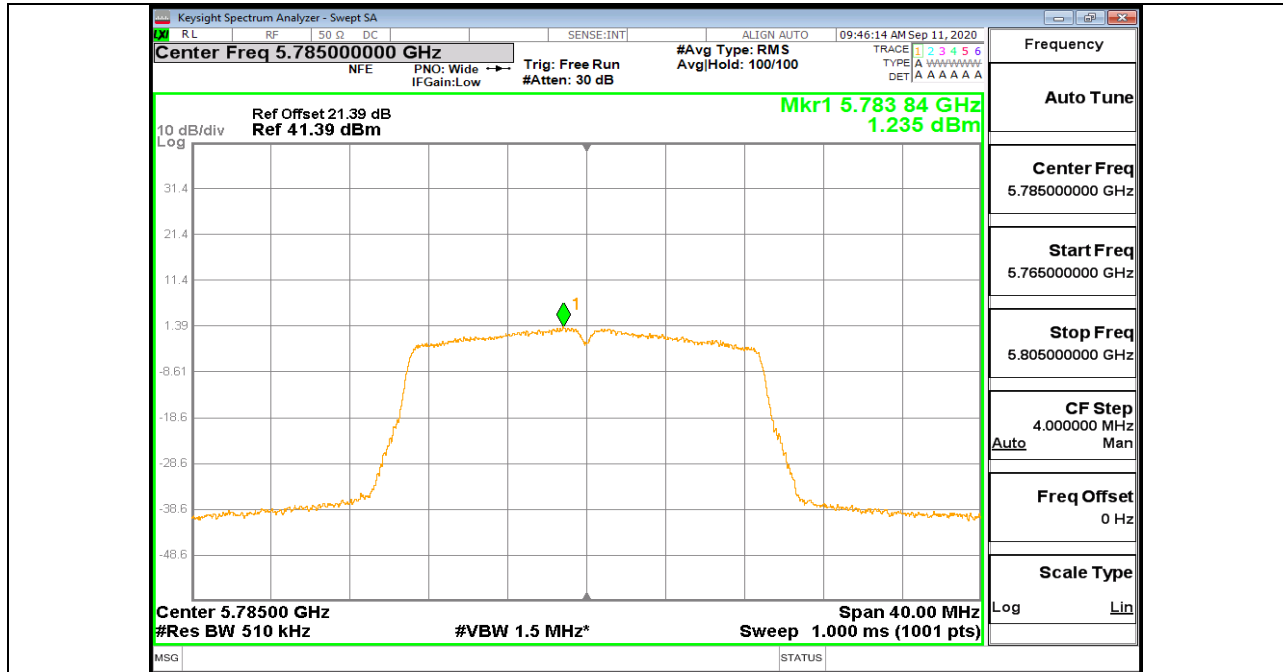
11N20MIMO_Ant2_5720_UNII-3



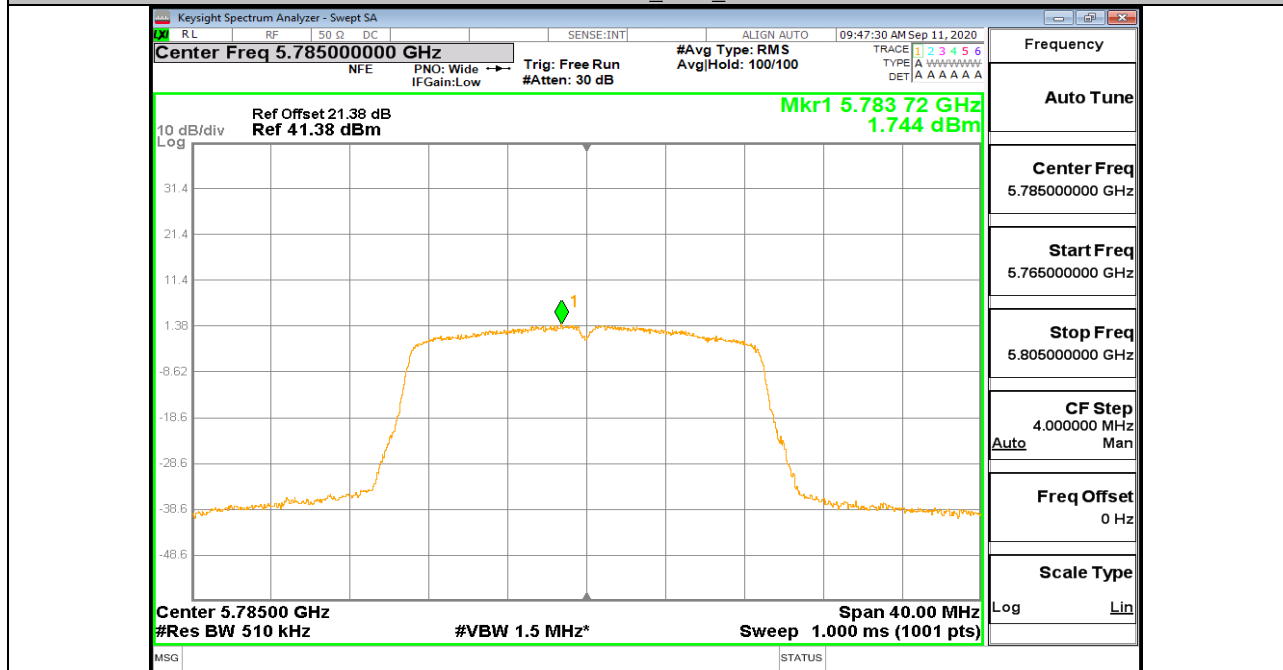
11N20MIMO_Ant1_5745



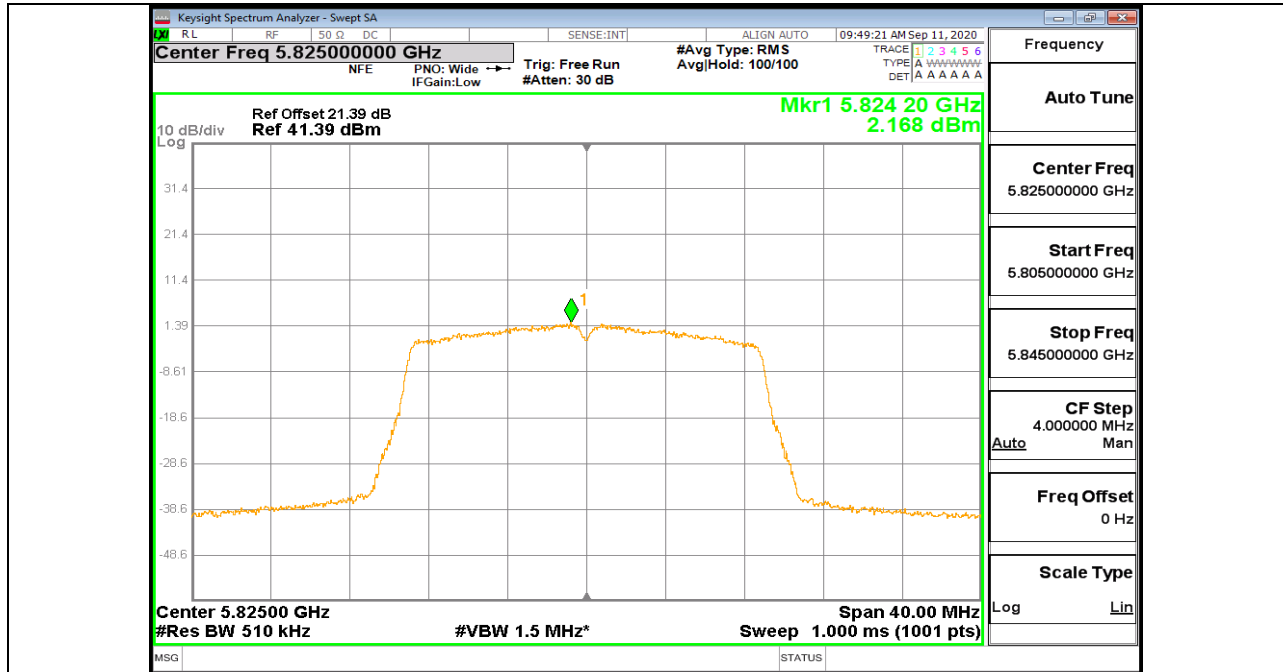
11N20MIMO_Ant2_5745



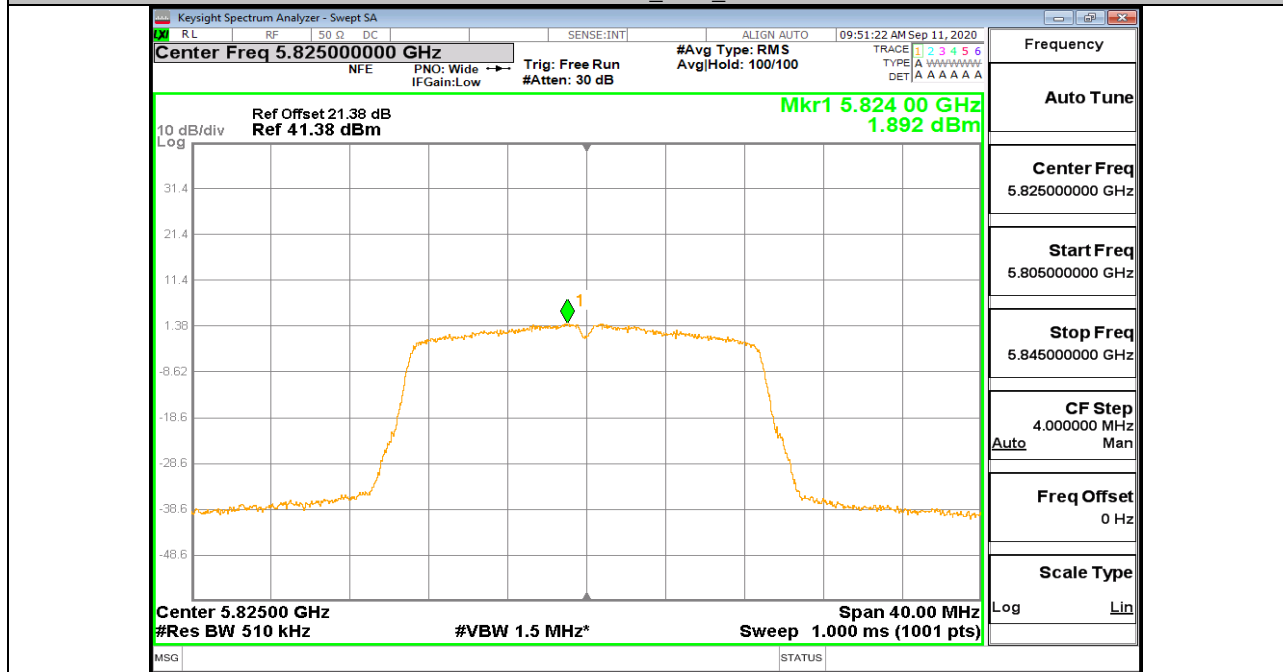
11N20MIMO_Ant1_5785



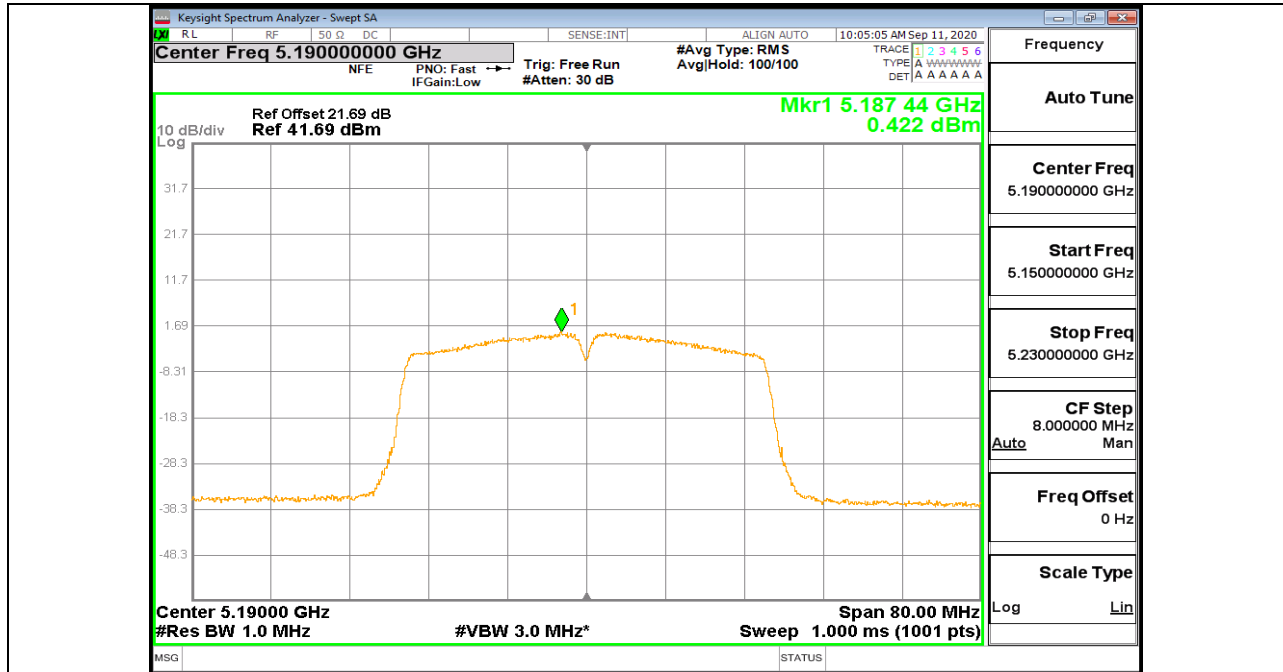
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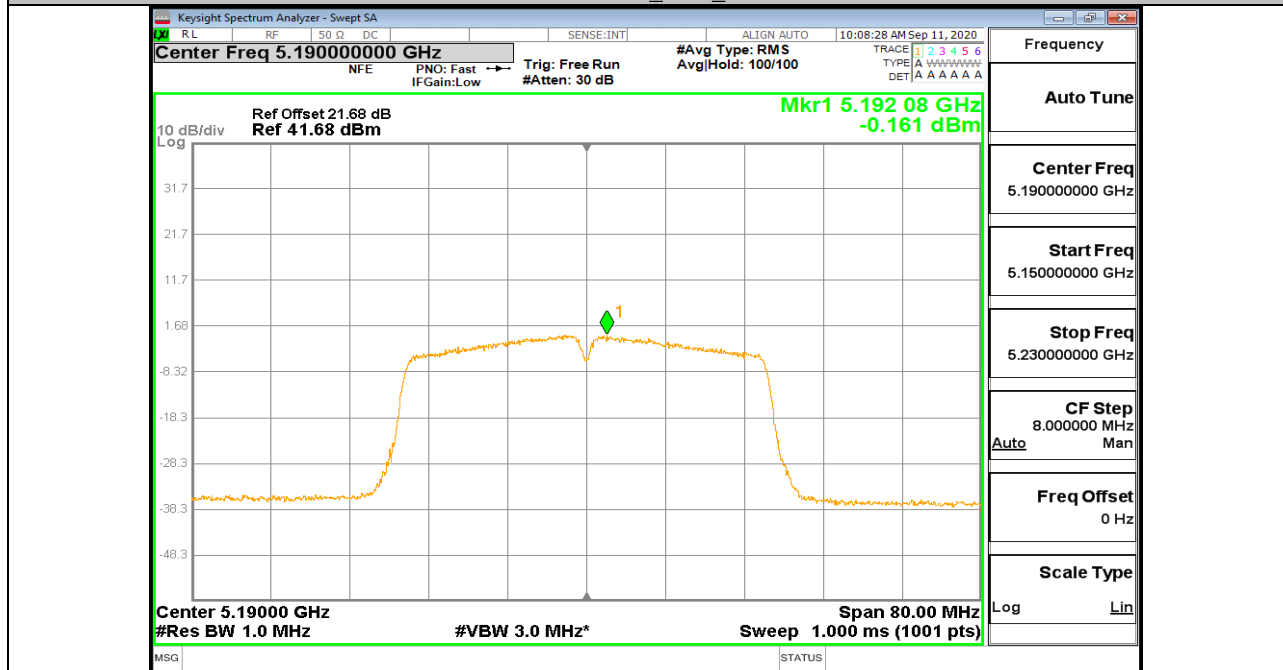
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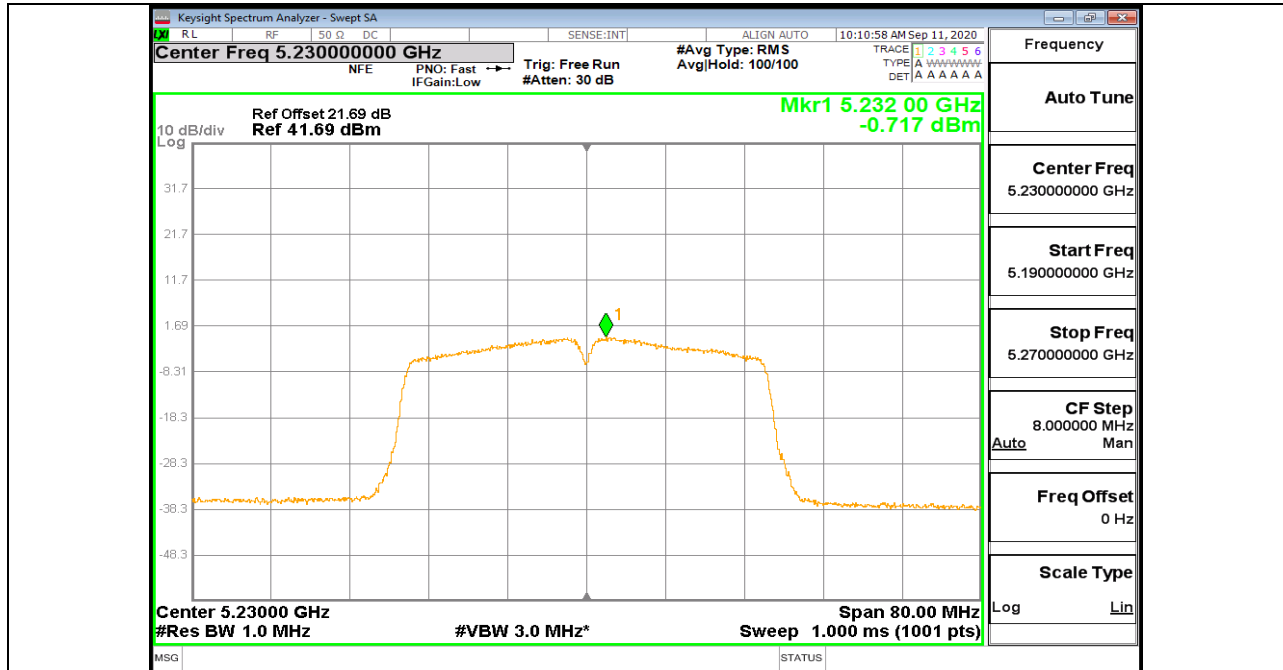
11N20MIMO_Ant2_5825



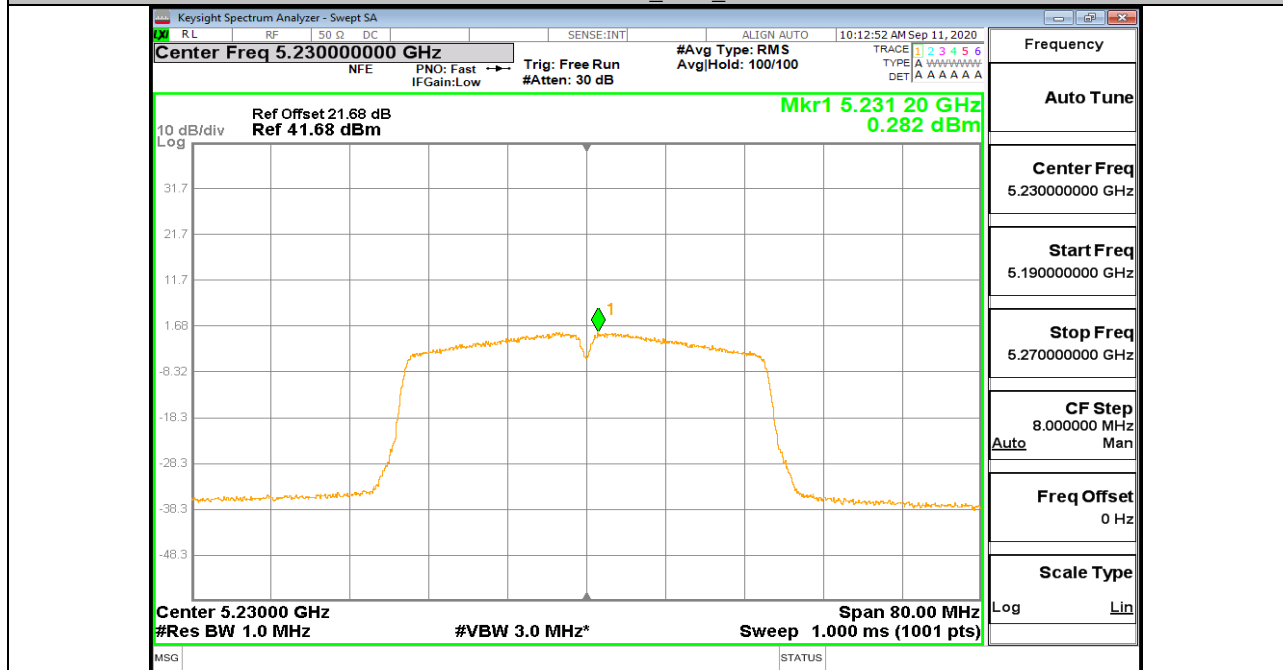
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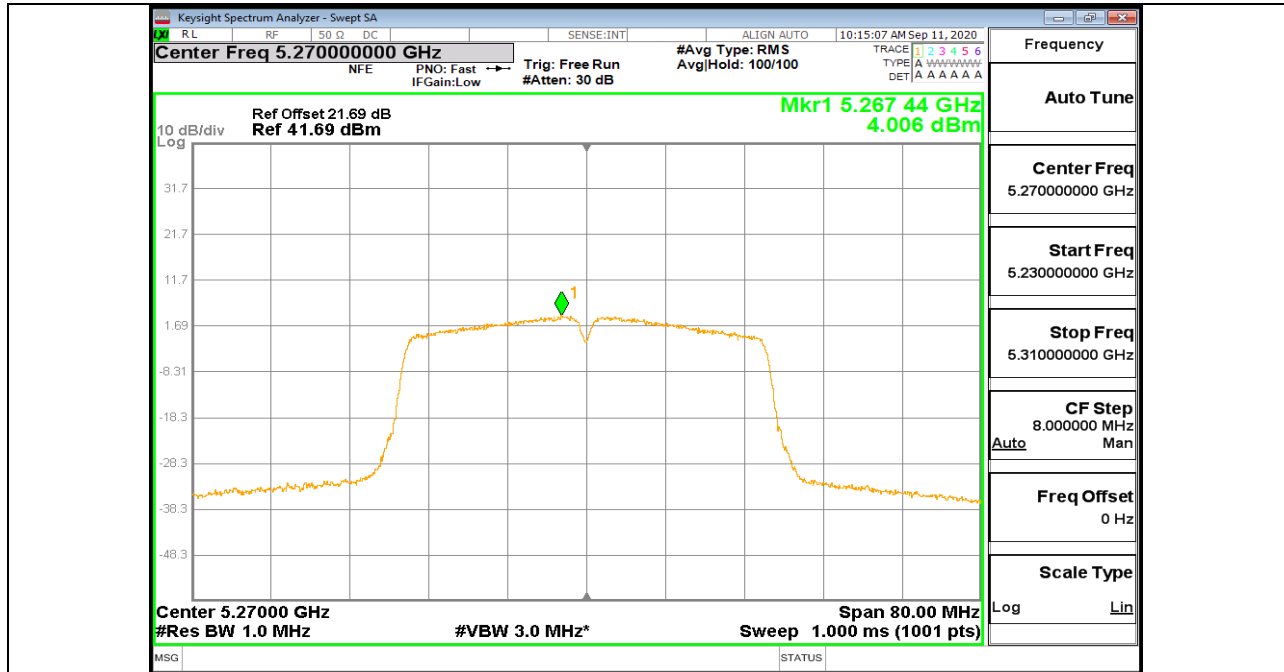
11N40MIMO_Ant2_5190



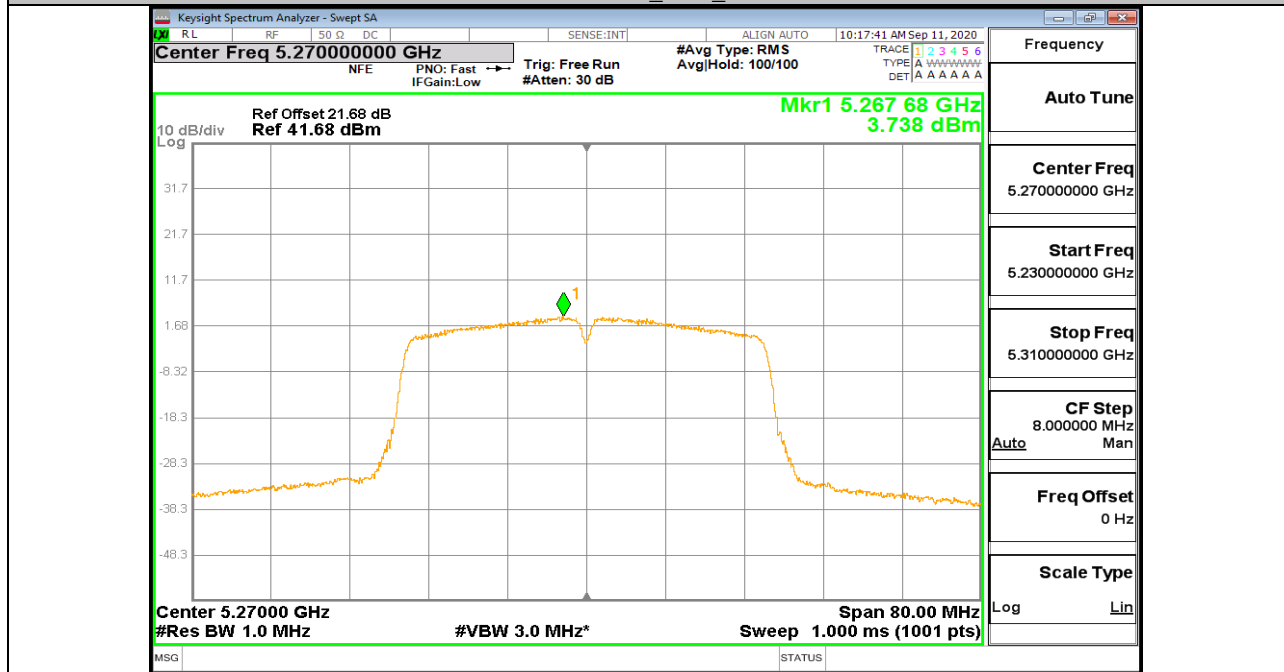
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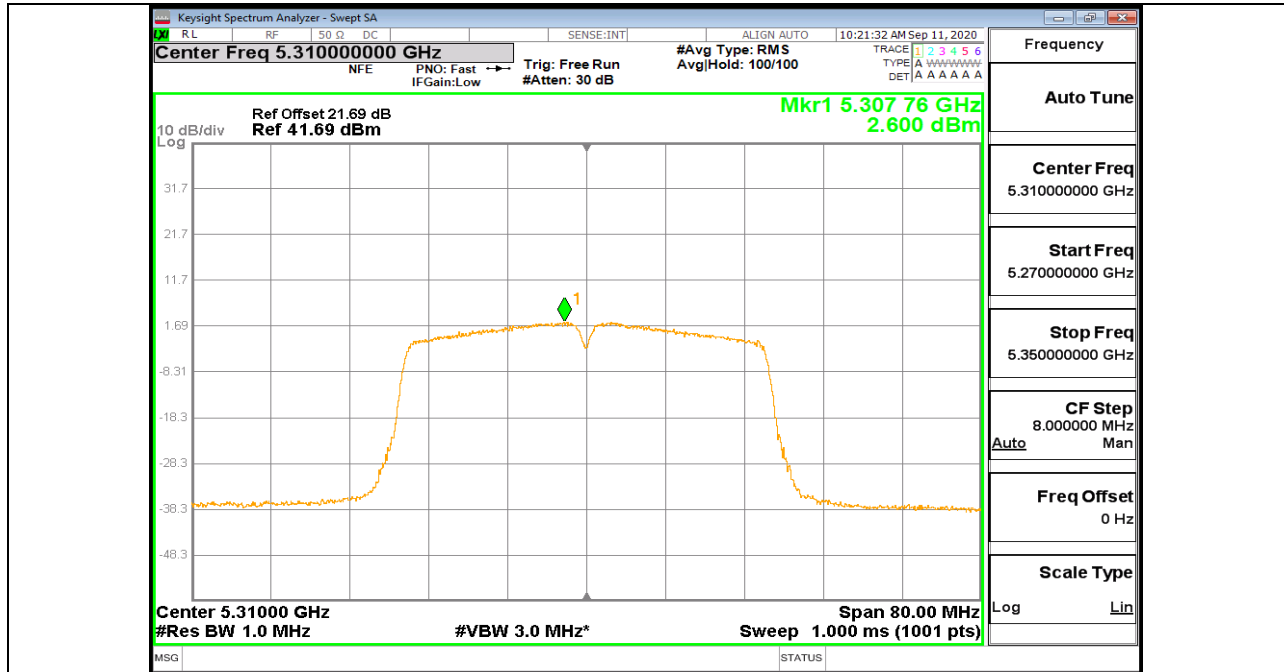
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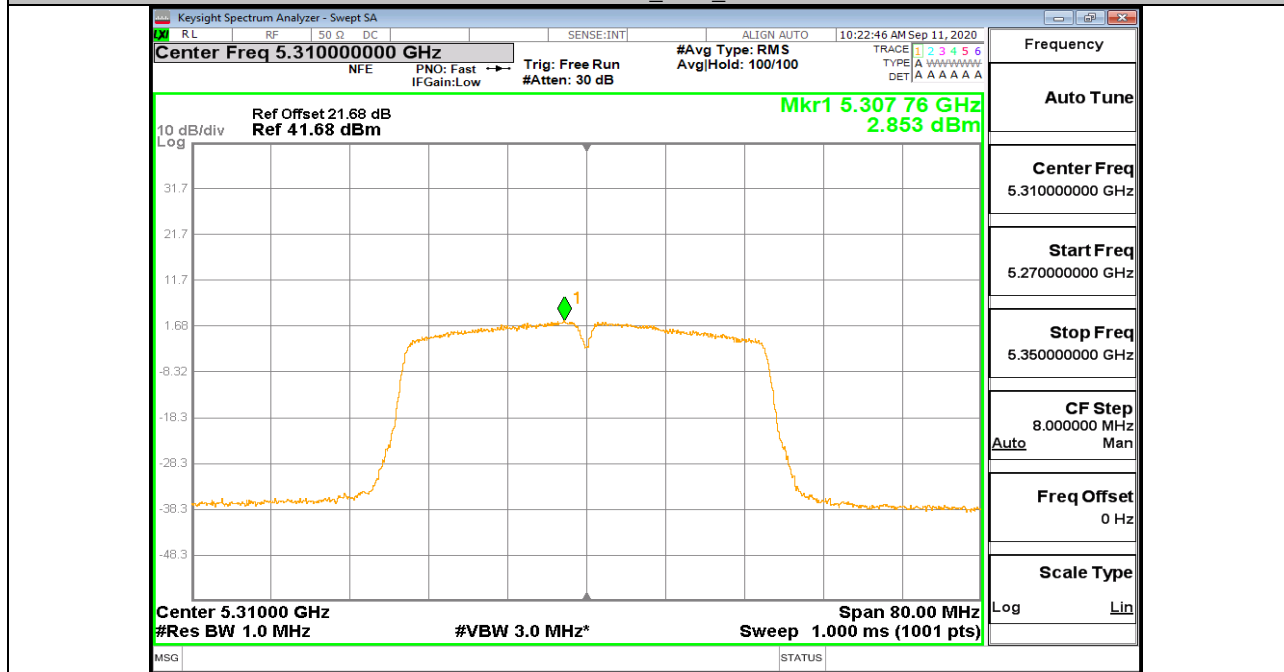
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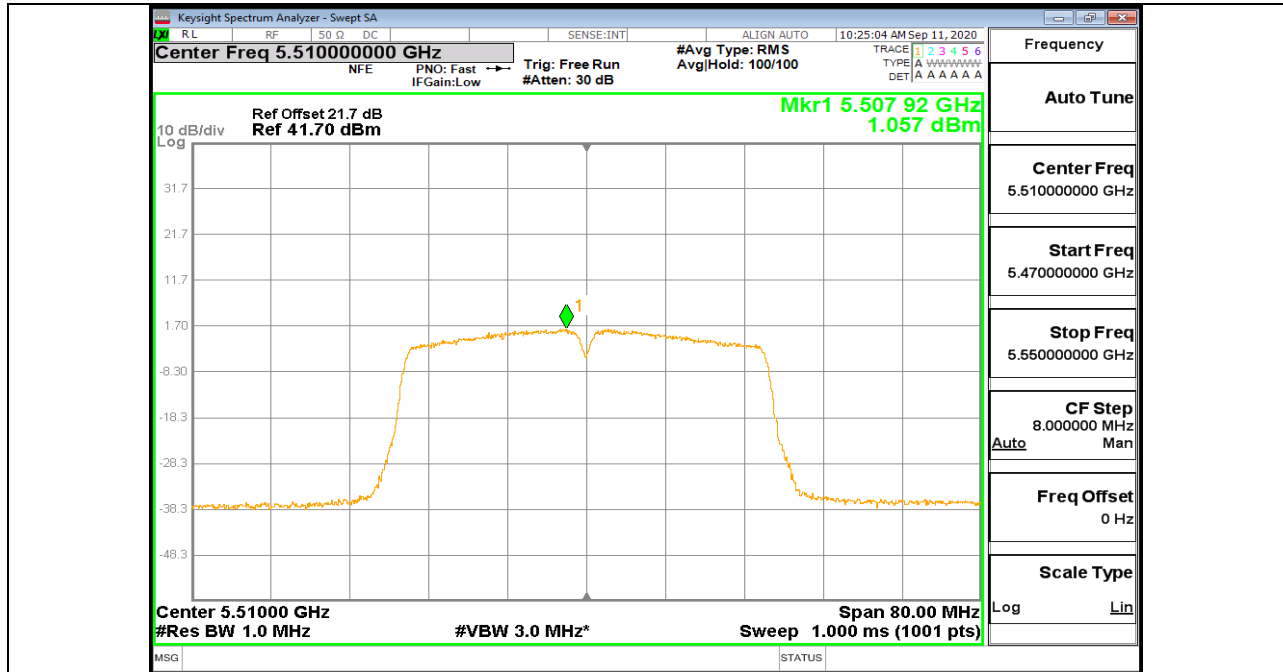
11N40MIMO_Ant2_5270



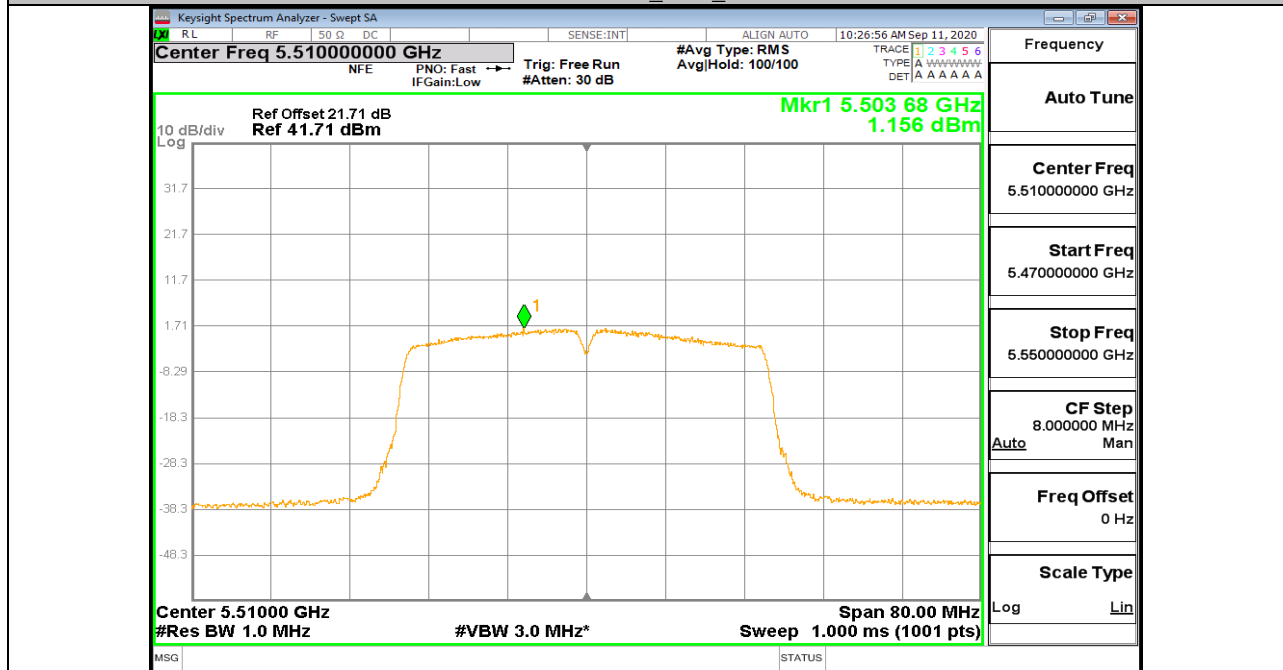
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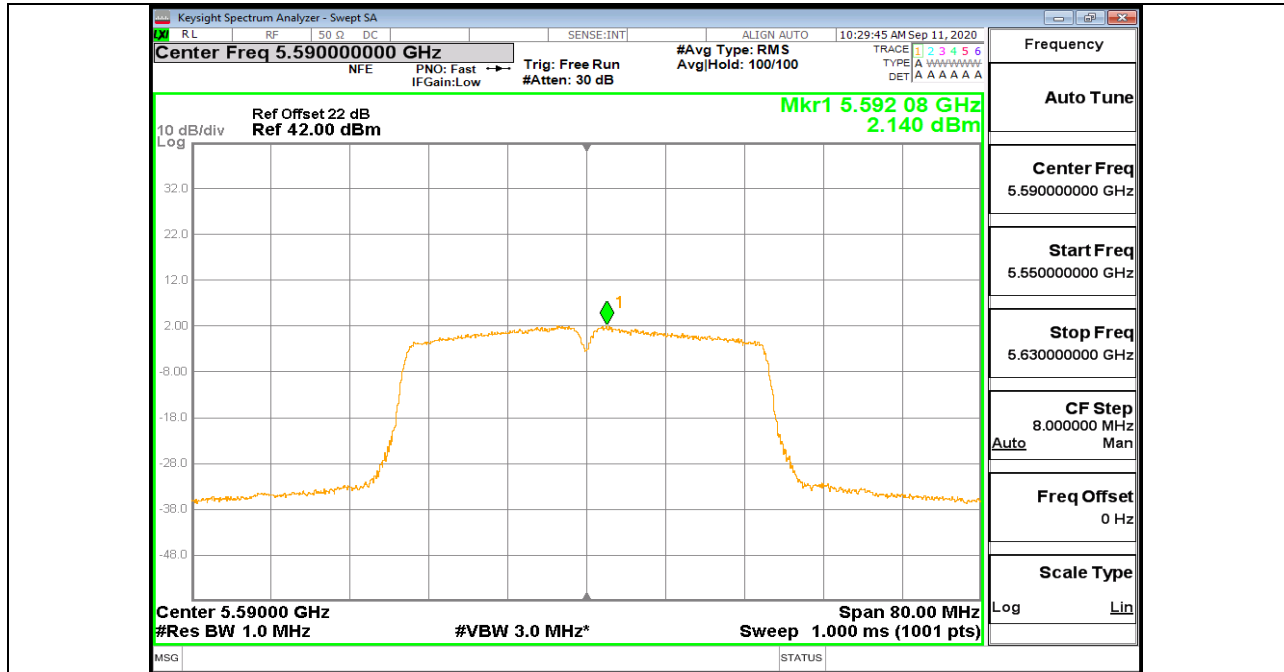
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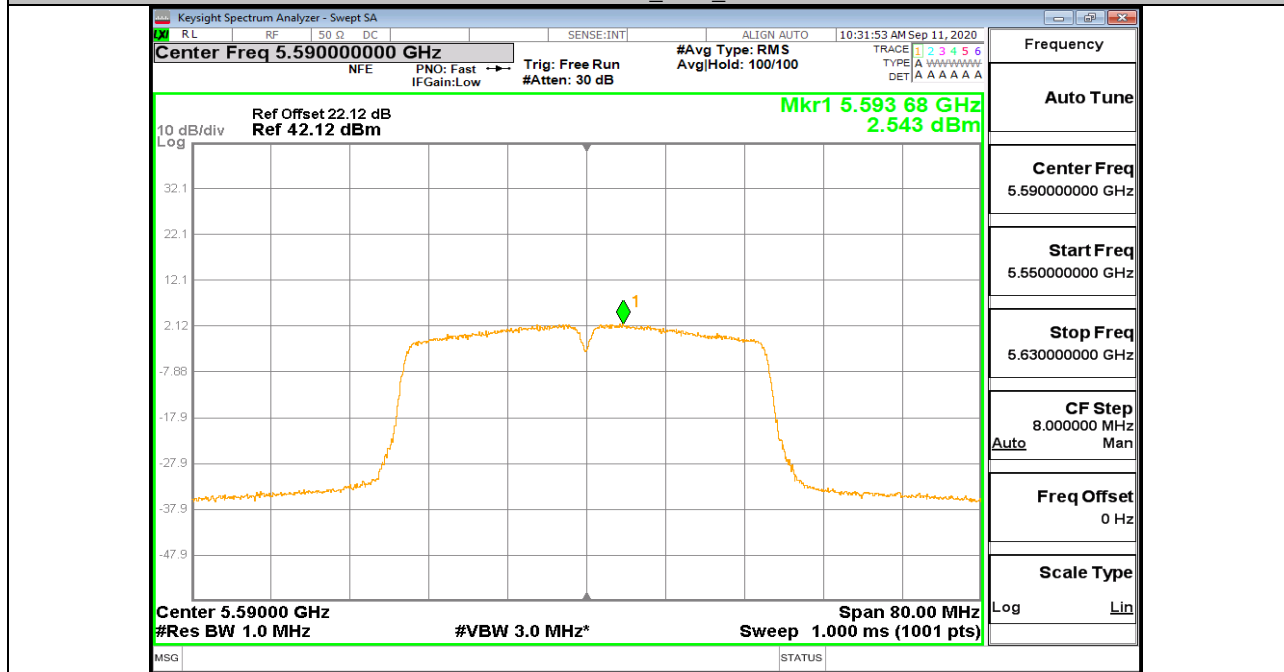
11N40MIMO_Ant1_5510



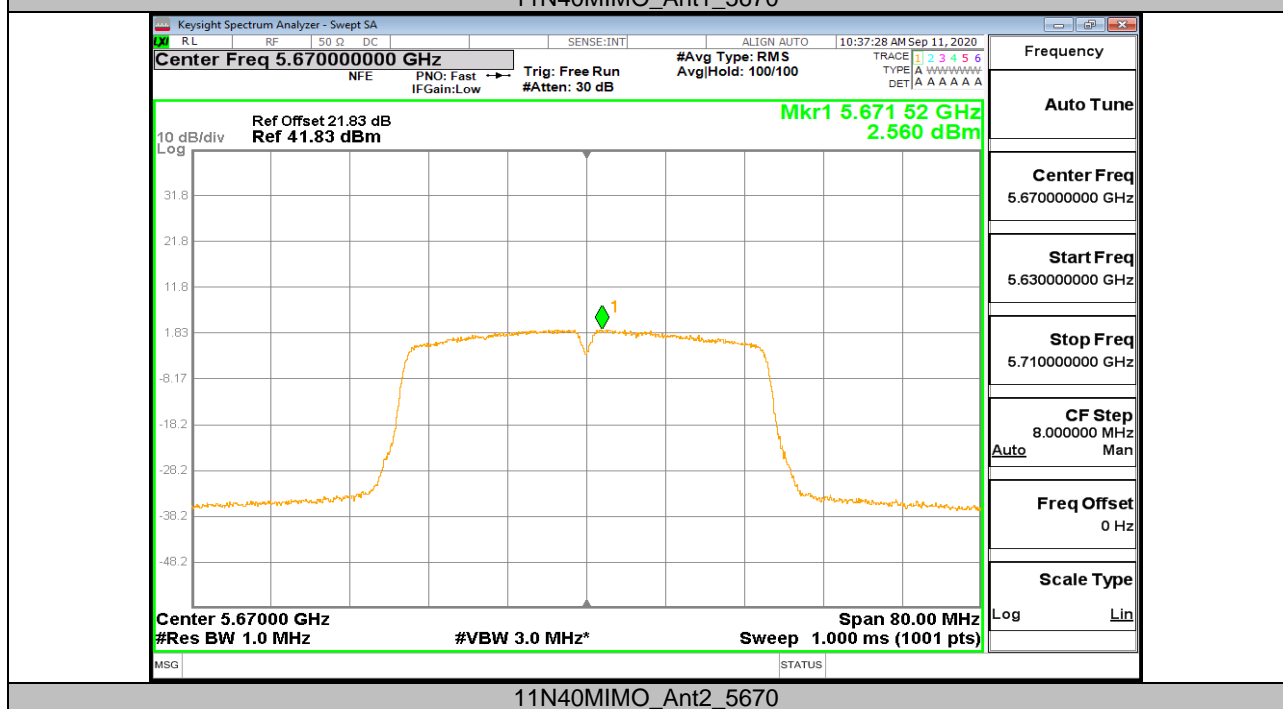
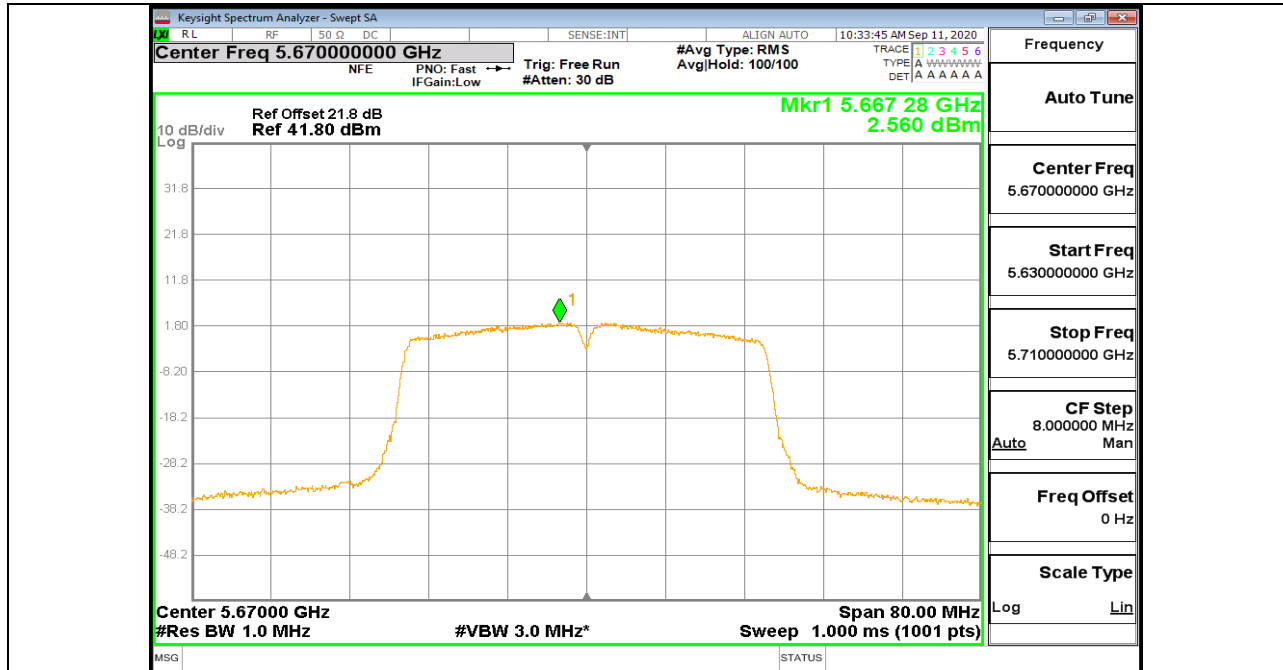
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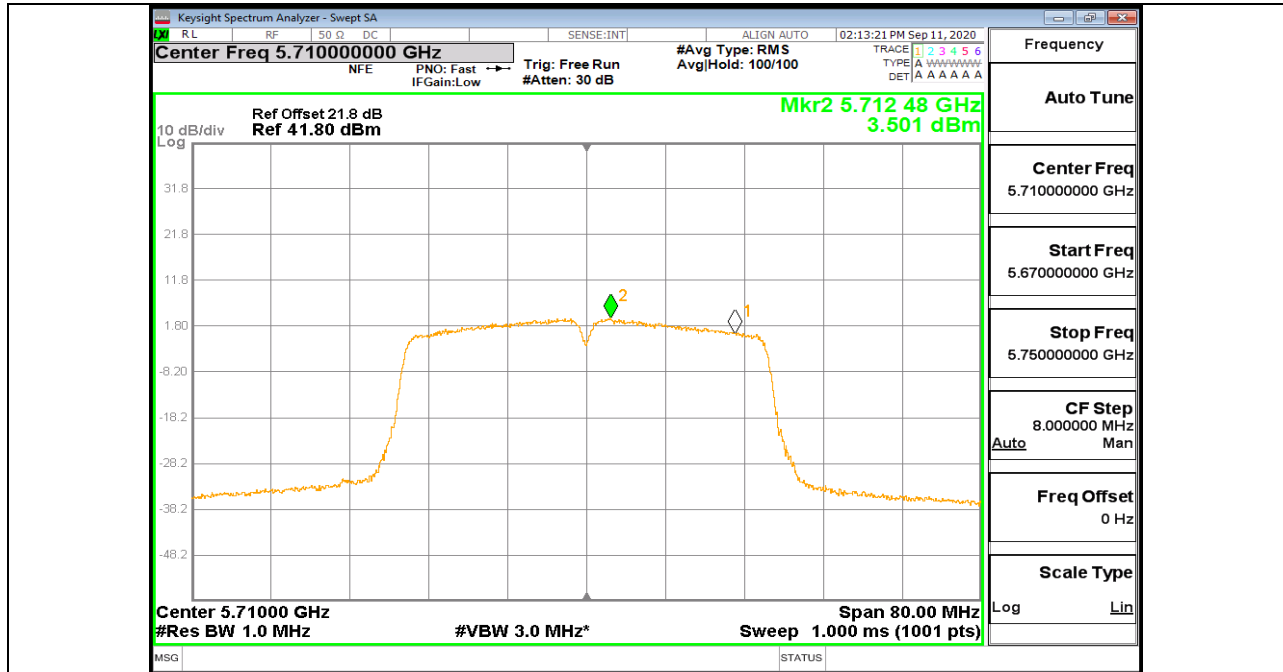


11N40MIMO_Ant1_5590

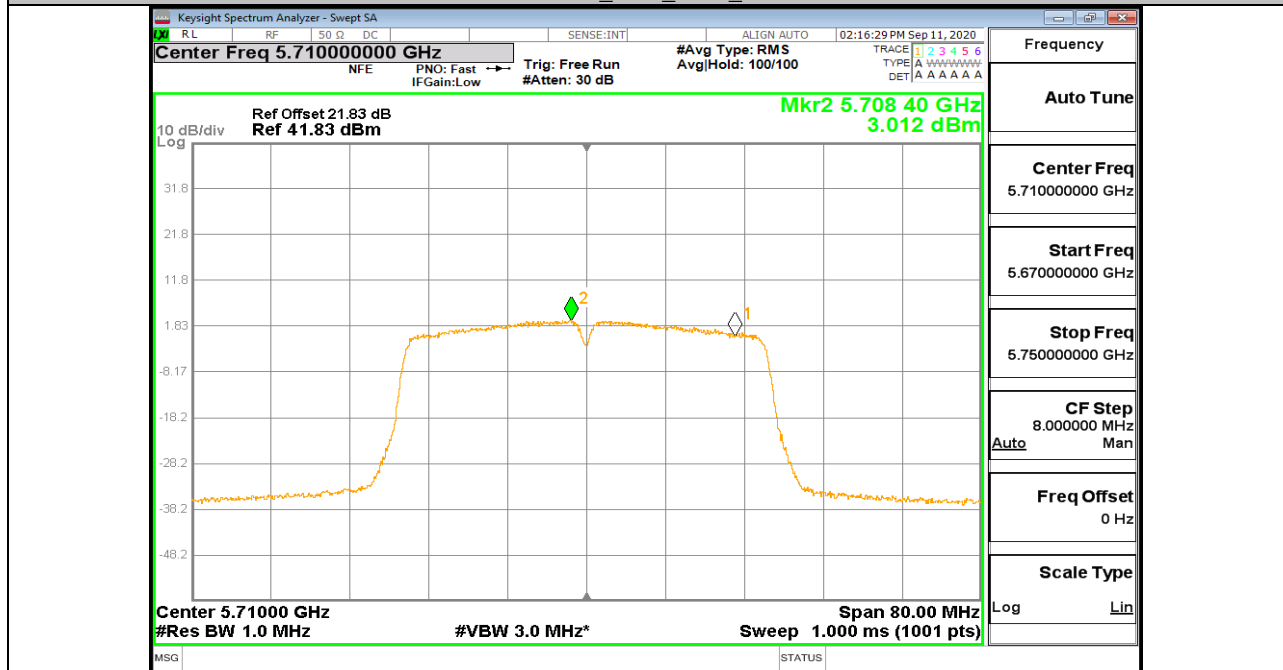


11N40MIMO_Ant2_5590

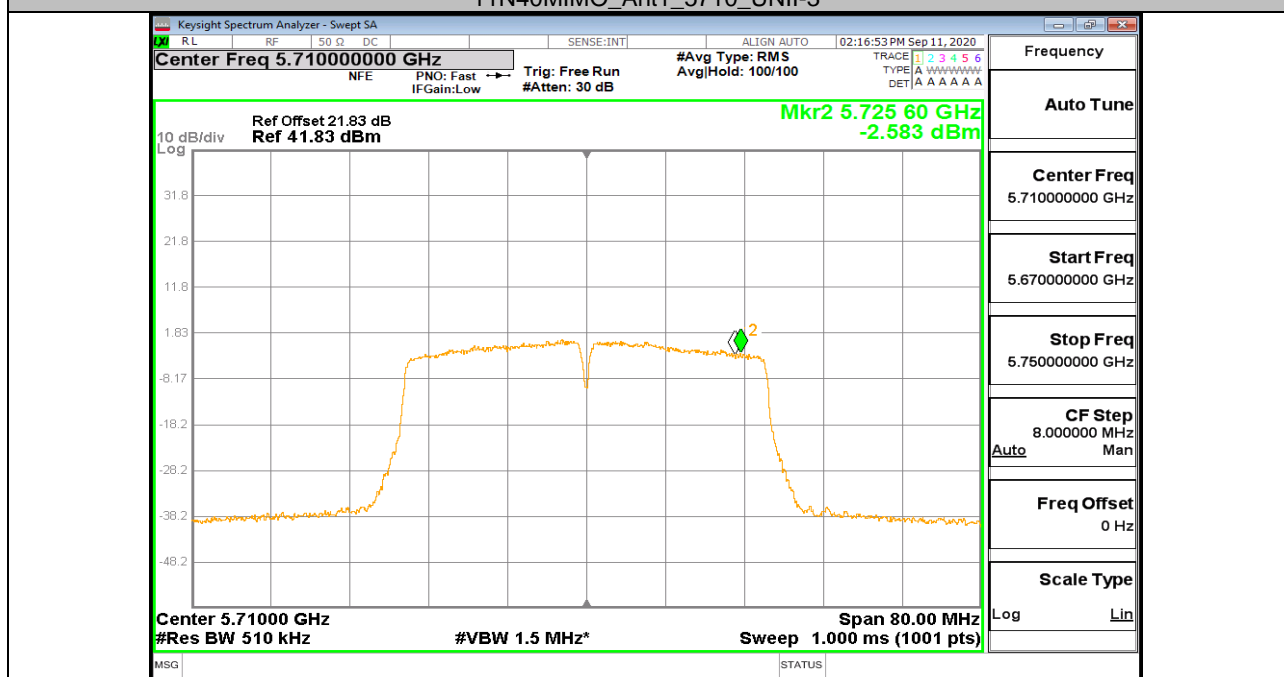
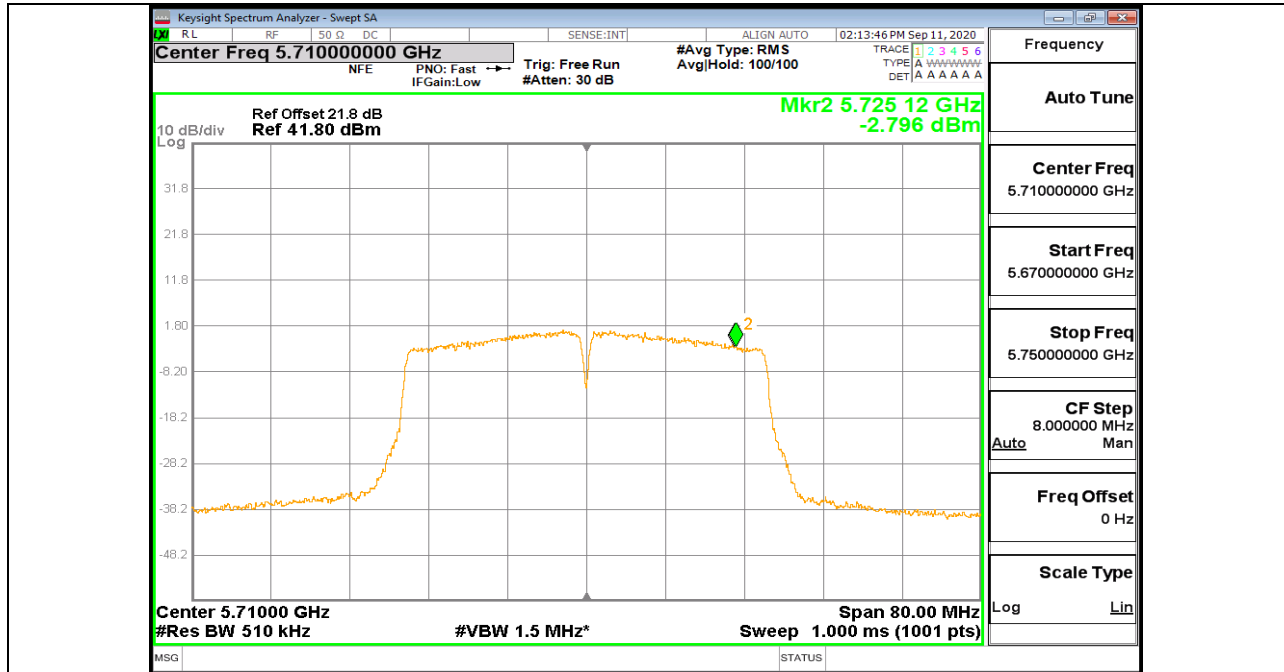


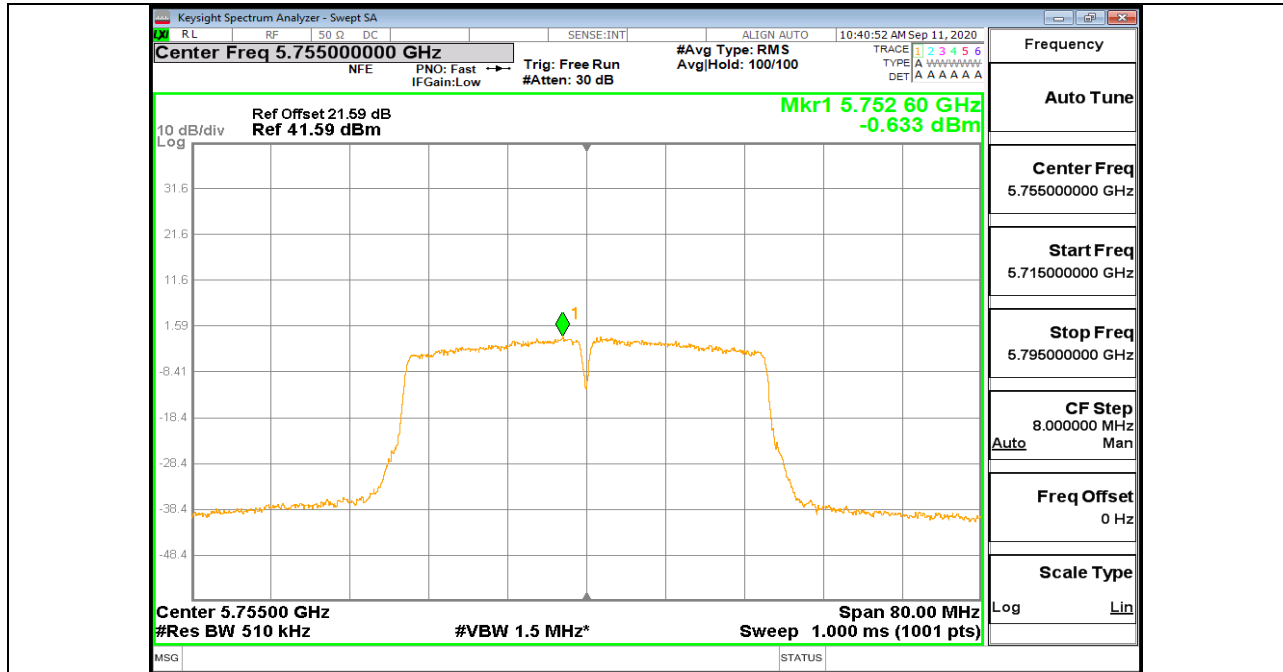


11N40MIMO_Ant1_5710_UNII-2C

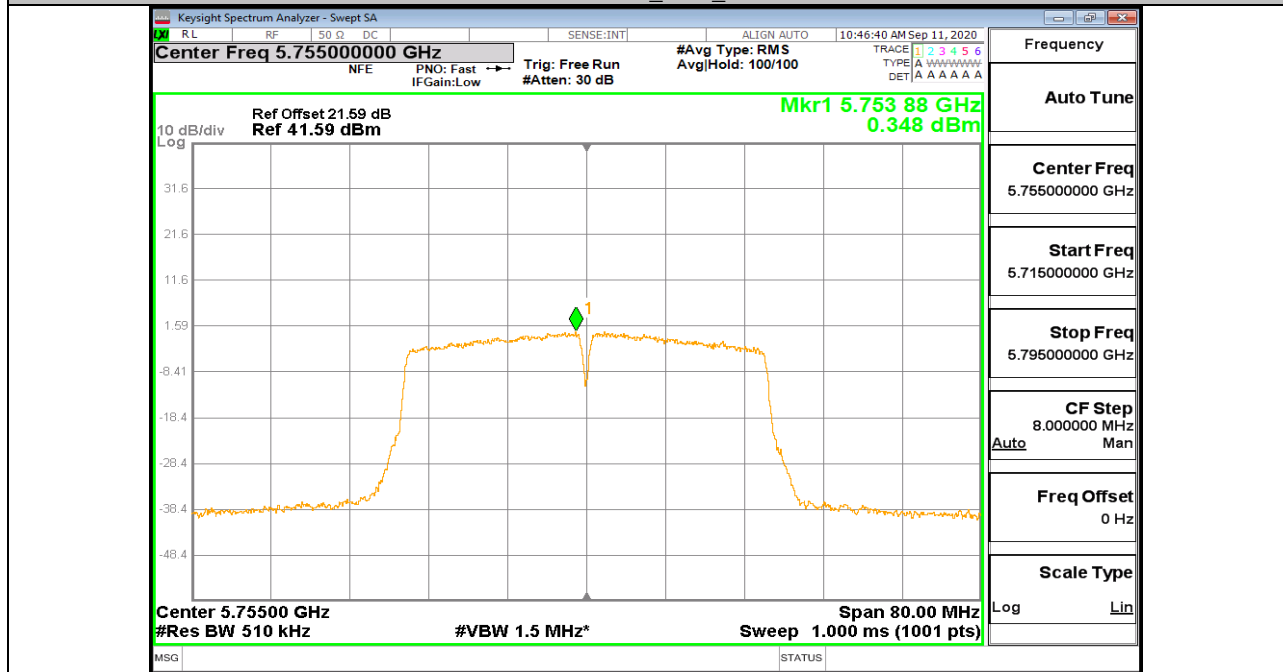


11N40MIMO_Ant2_5710_UNII-2C

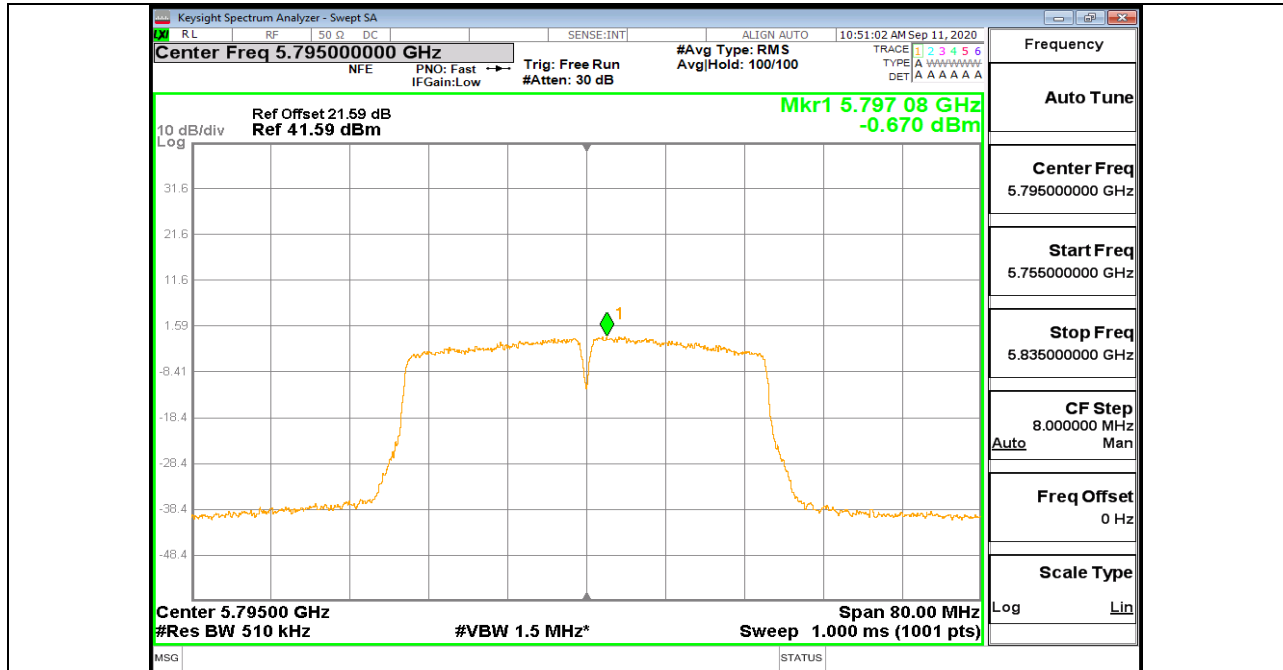




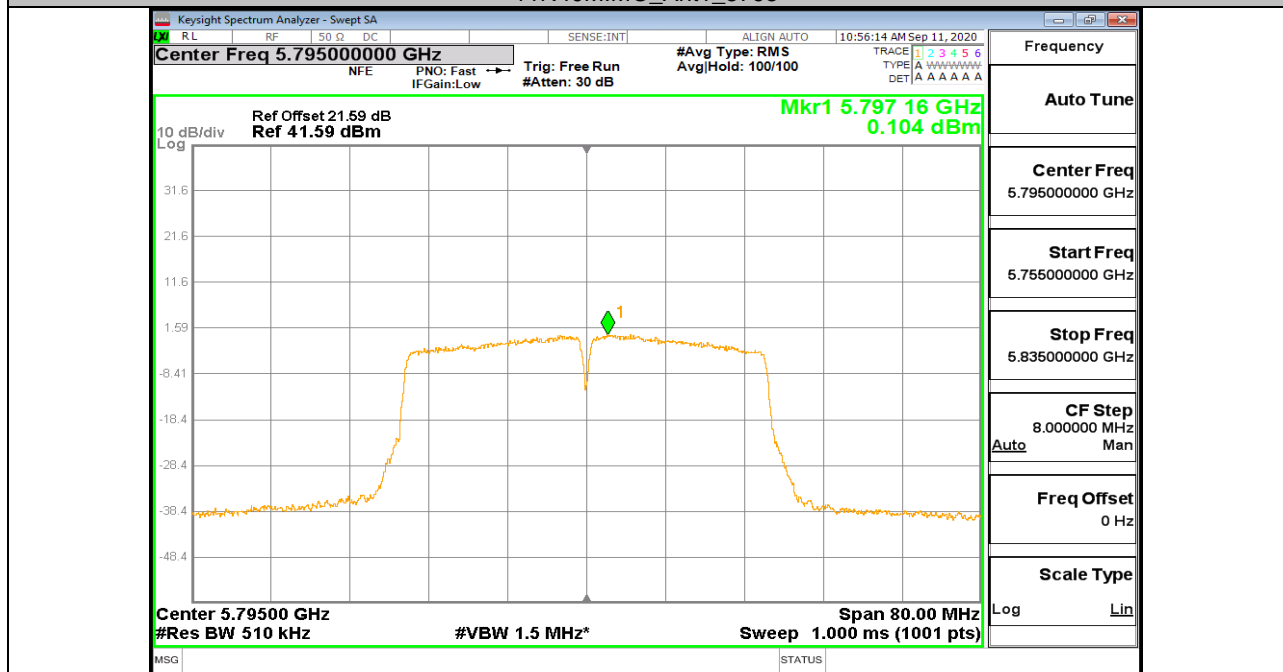
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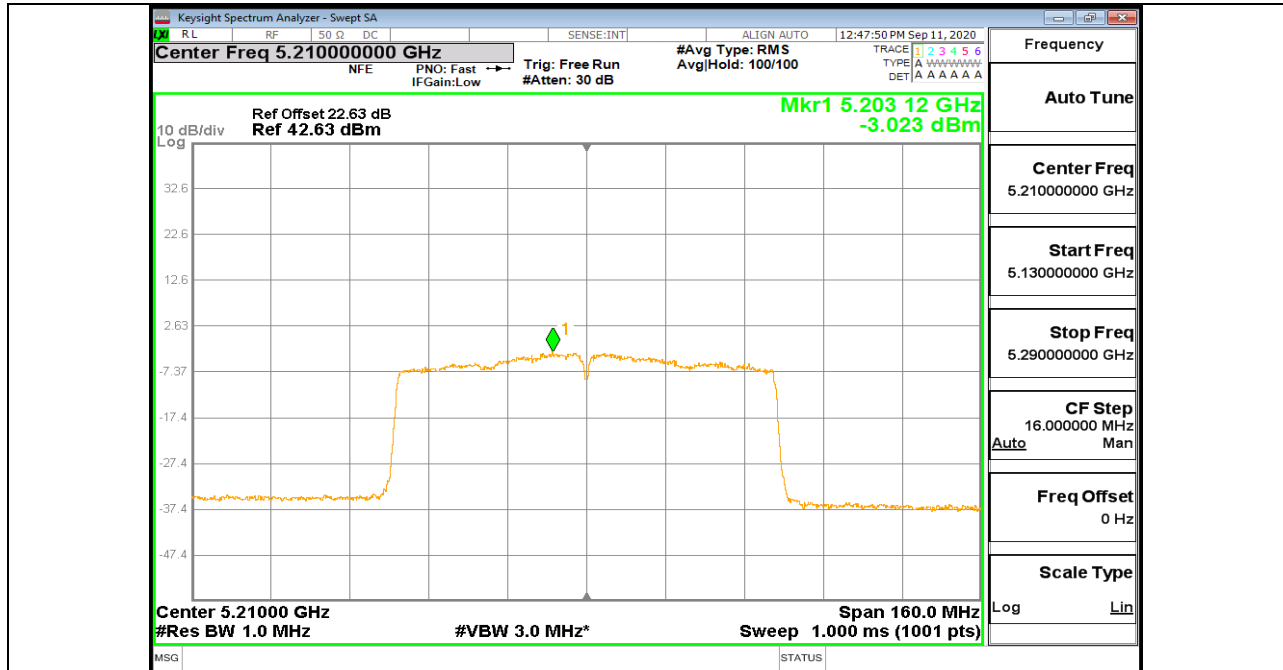
11N40MIMO_Ant2_5755



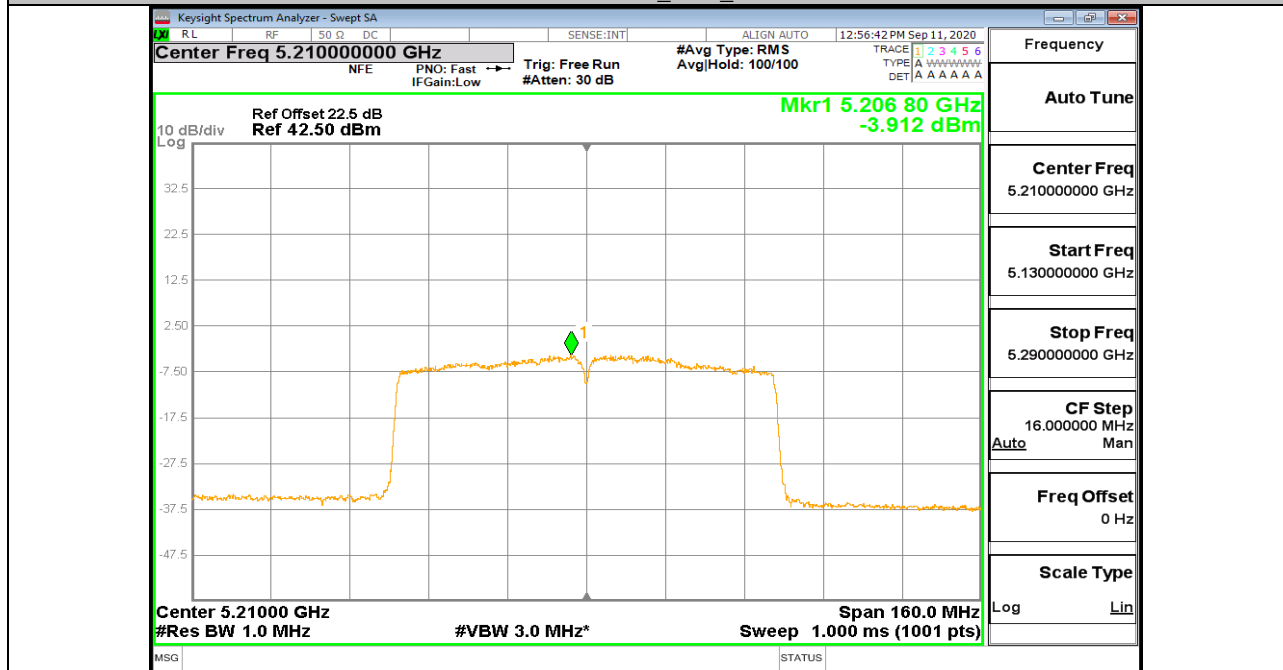
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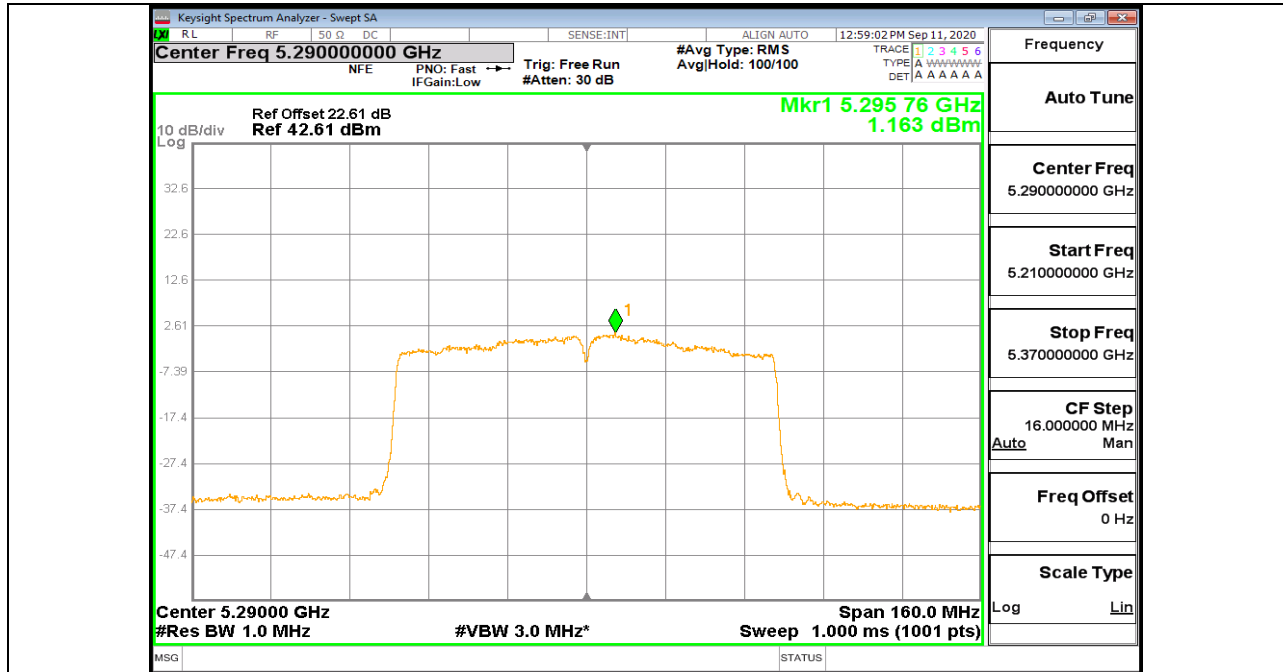
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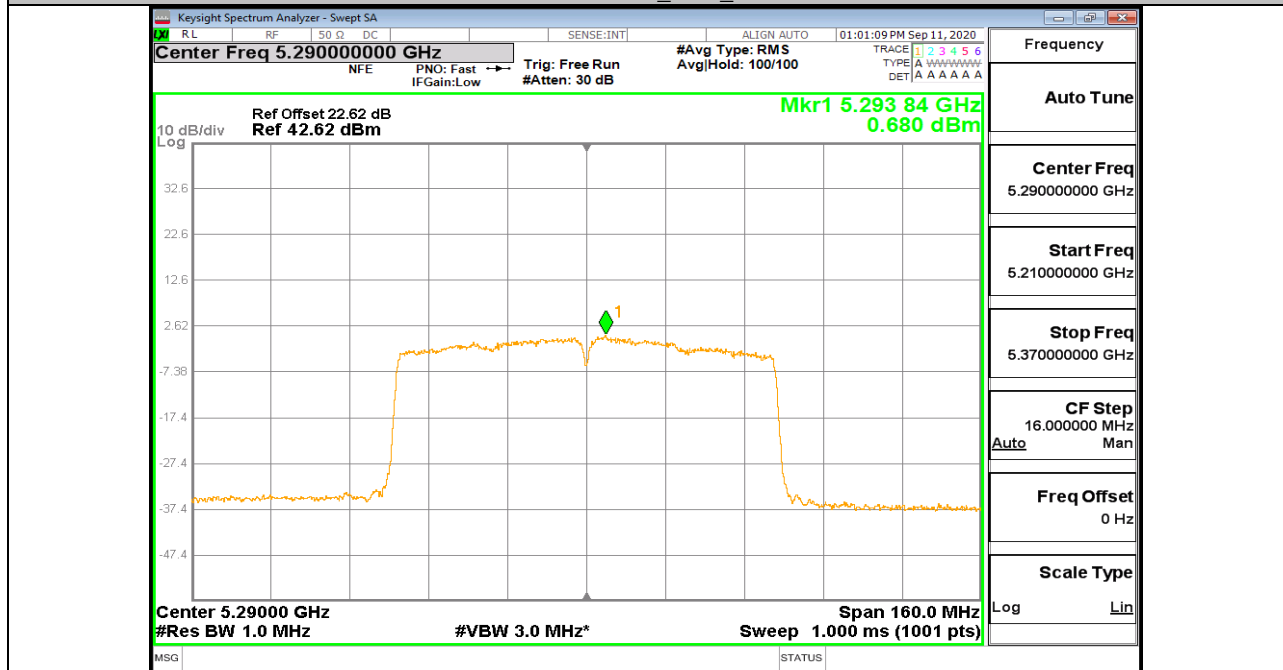
11AC80MIMO_Ant1_5210



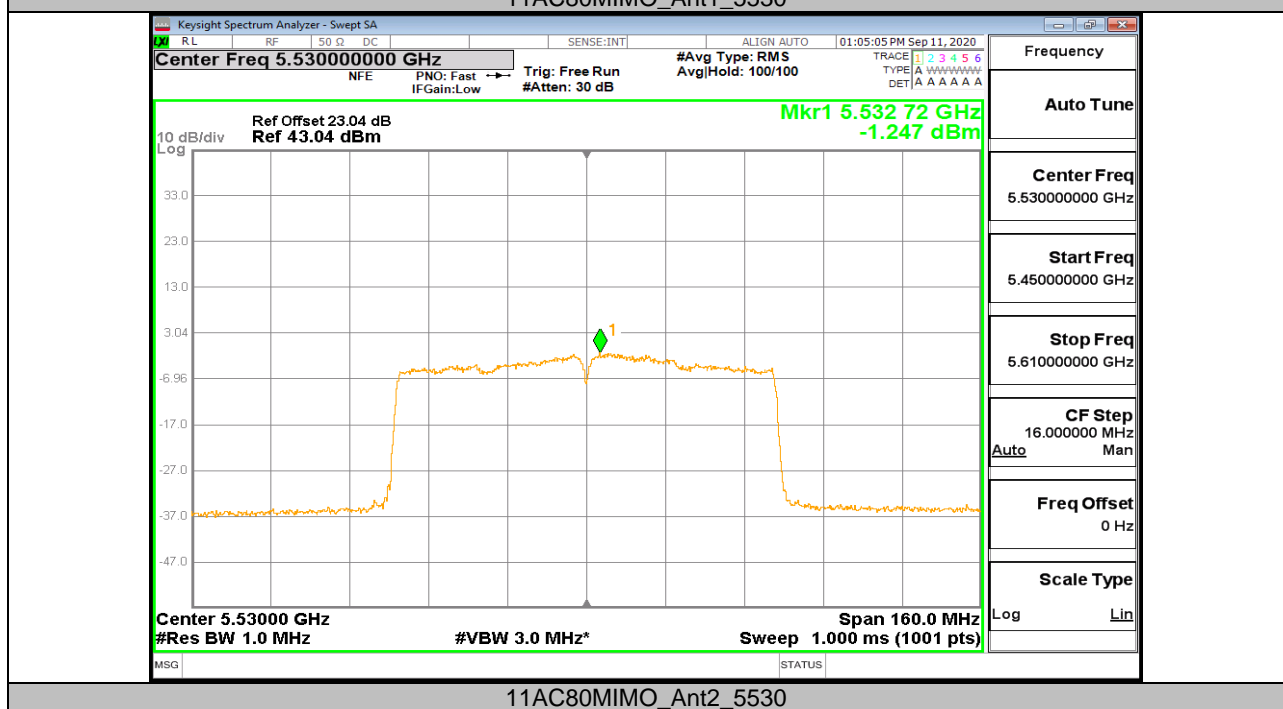
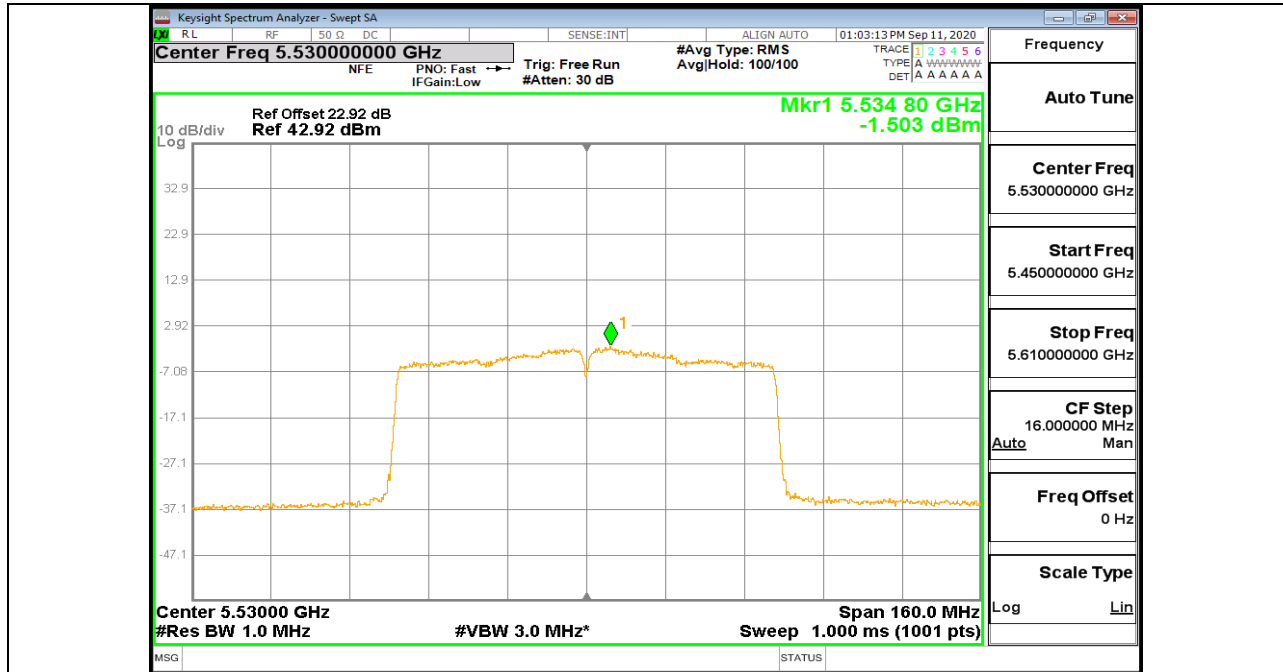
11AC80MIMO_Ant2_5210

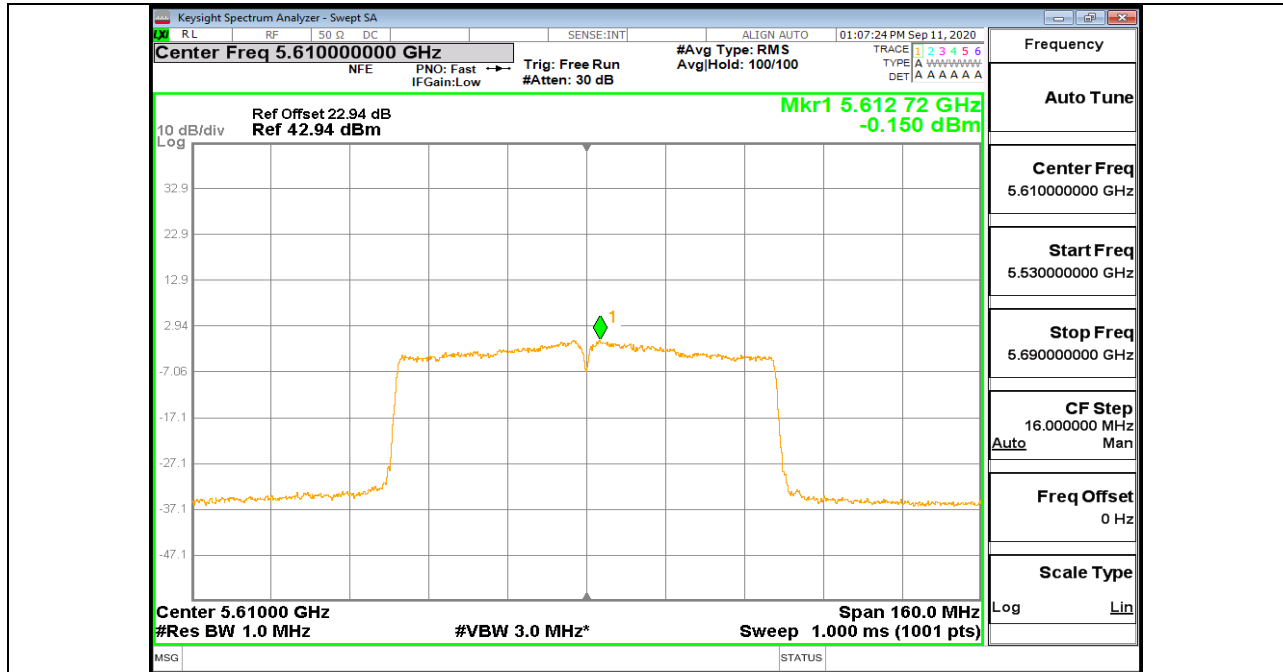


11AC80MIMO_Ant1_5290

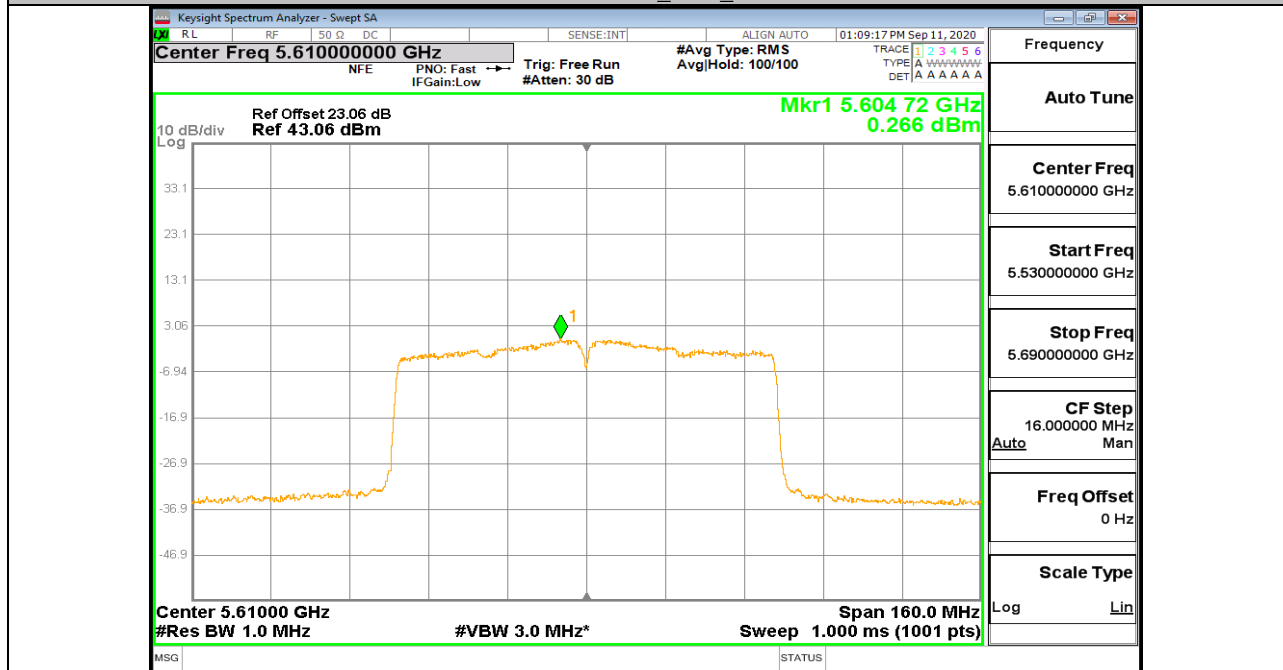


11AC80MIMO_Ant2_5290

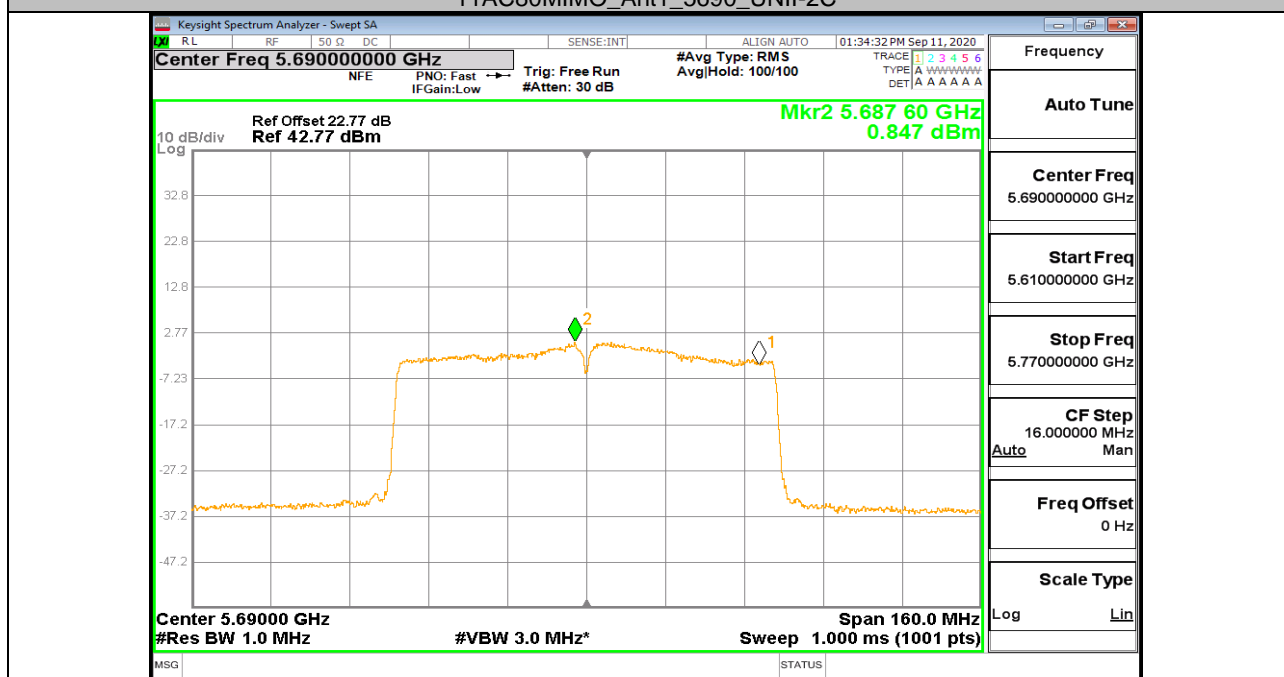
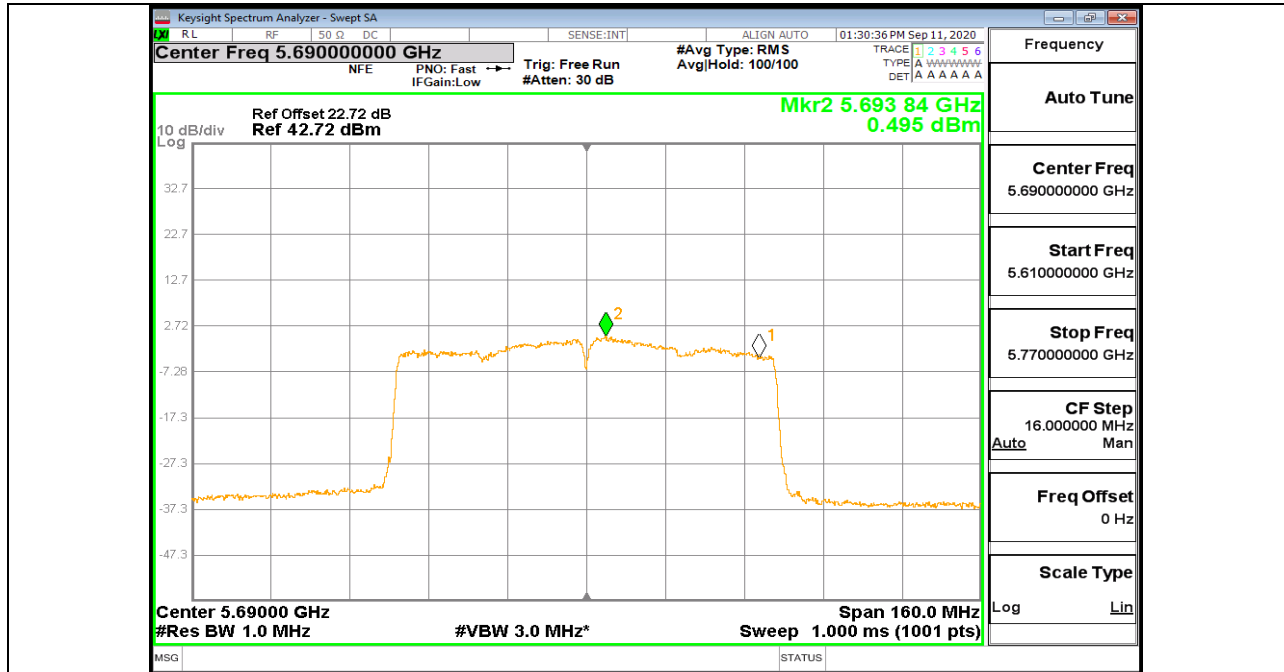


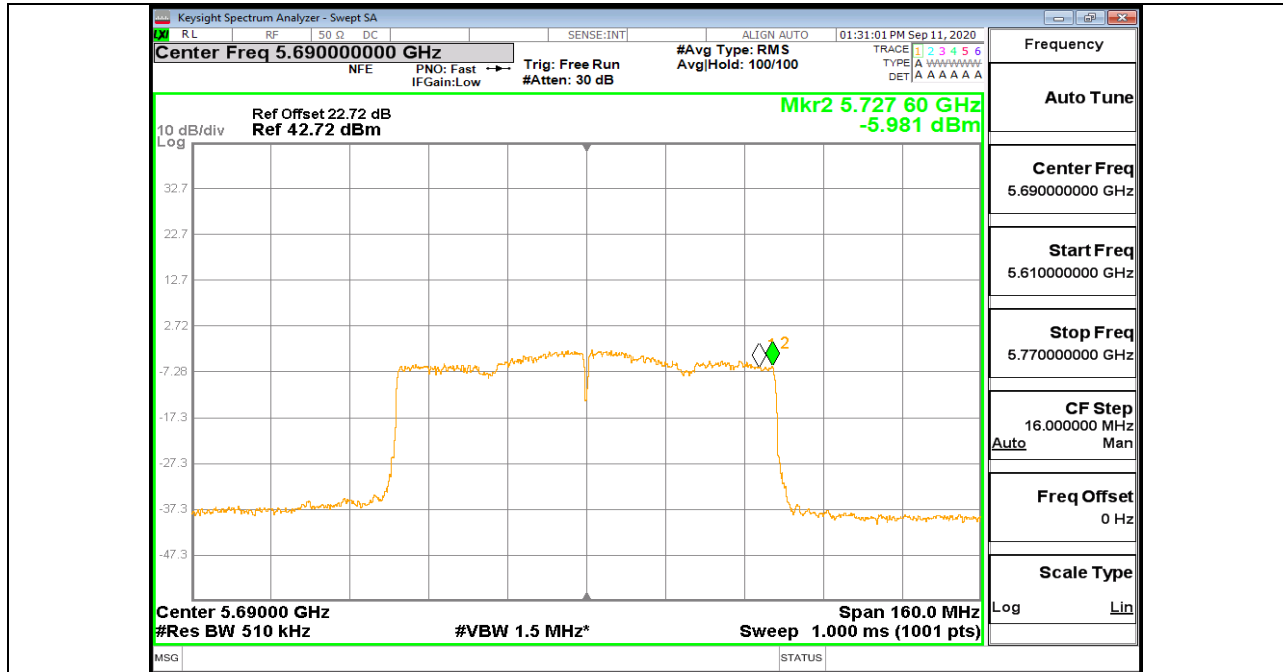


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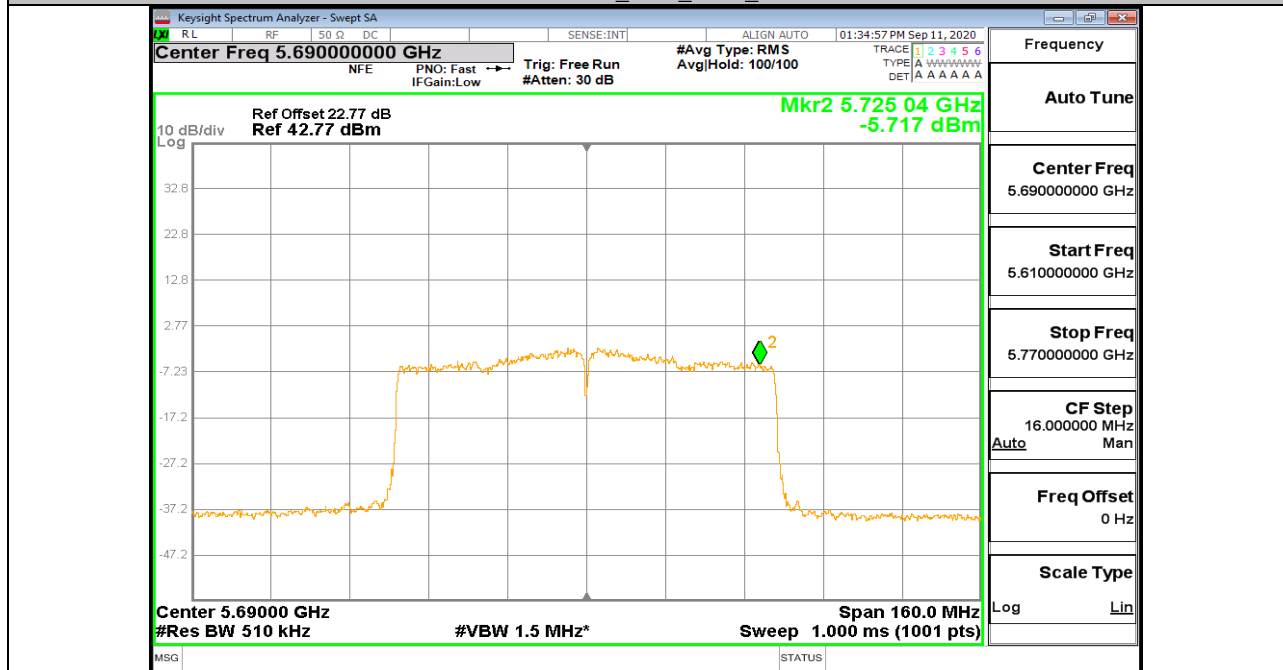


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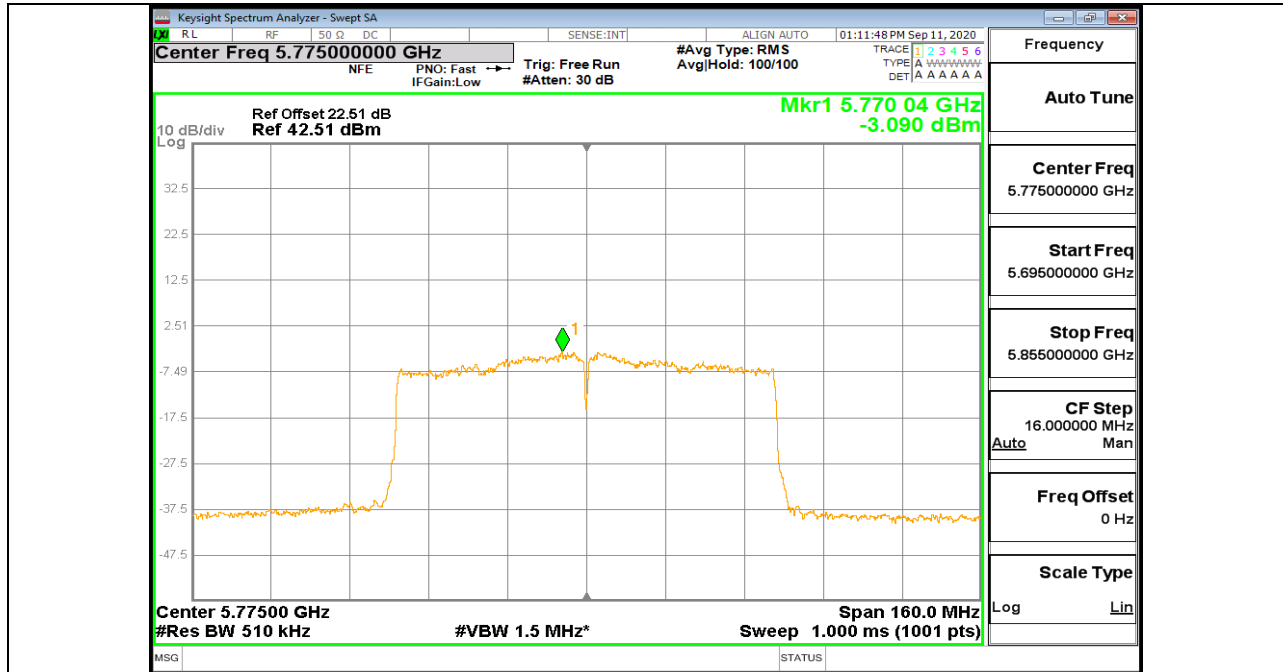




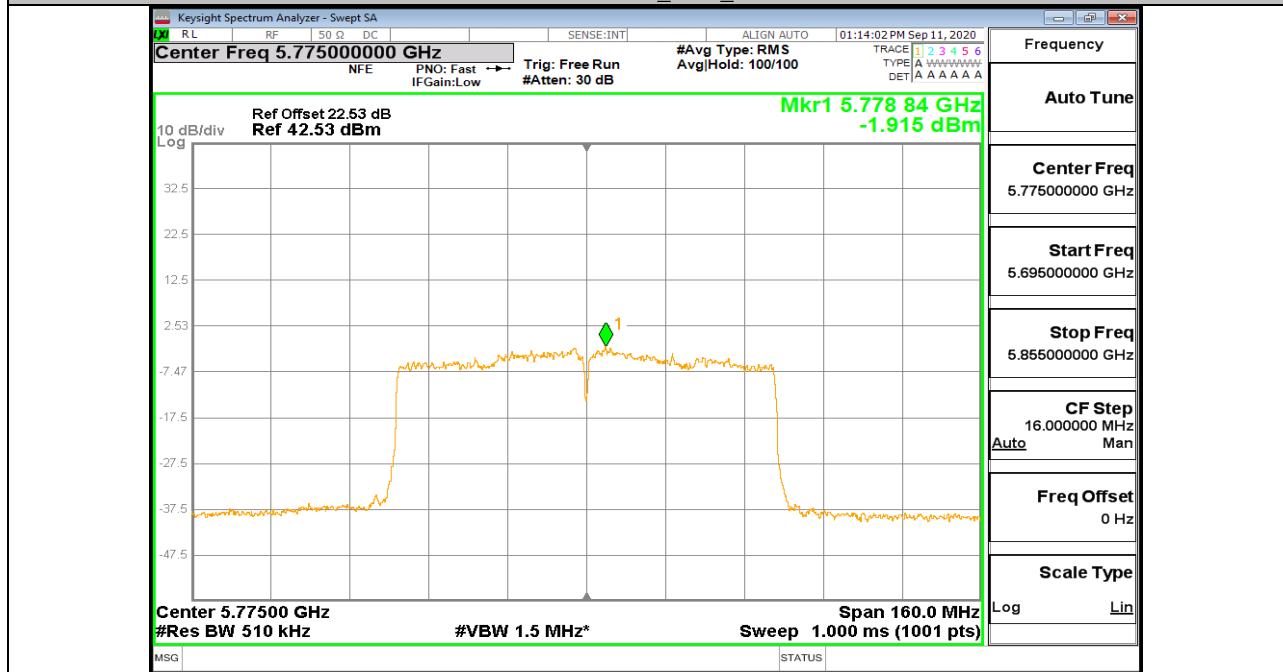
11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



Appendix D: Duty Cycle Test Result

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.39	1.46	0.9521	95.21	0.21	0.72	1
11AC20MIMO	1.31	1.37	0.9562	95.62	0.19	0.76	1
11AC40MIMO	0.65	0.71	0.9155	91.55	0.38	1.54	2
11AC80MIMO	0.19	0.25	0.7600	76.00	1.19	5.26	10

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

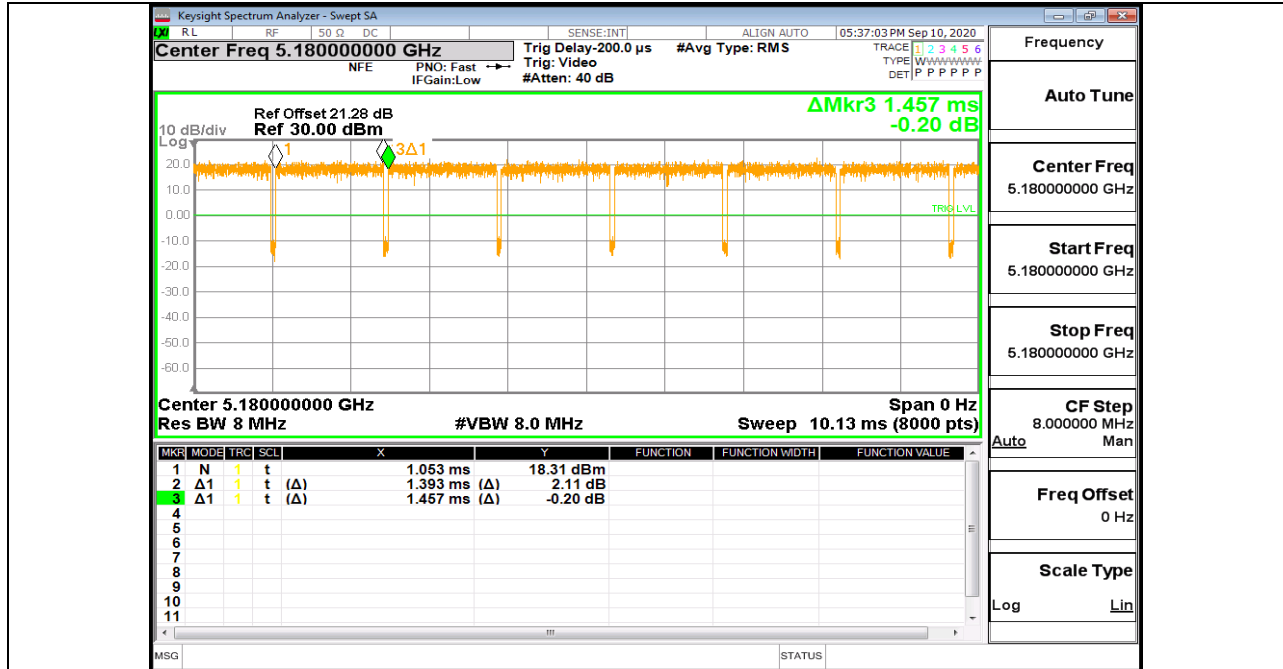
Where: x is Duty Cycle (Linear)

Where: T is On Time

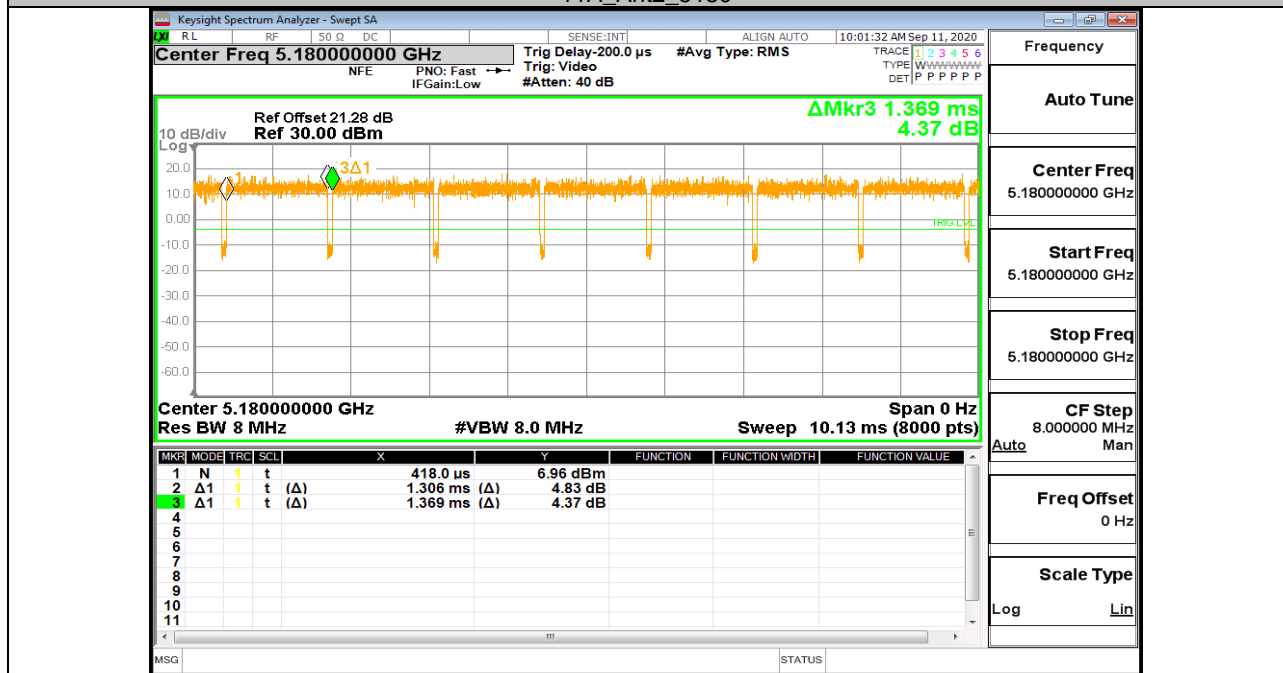
If that calculated VBW is not available on the analyzer then the next higher value should be used.



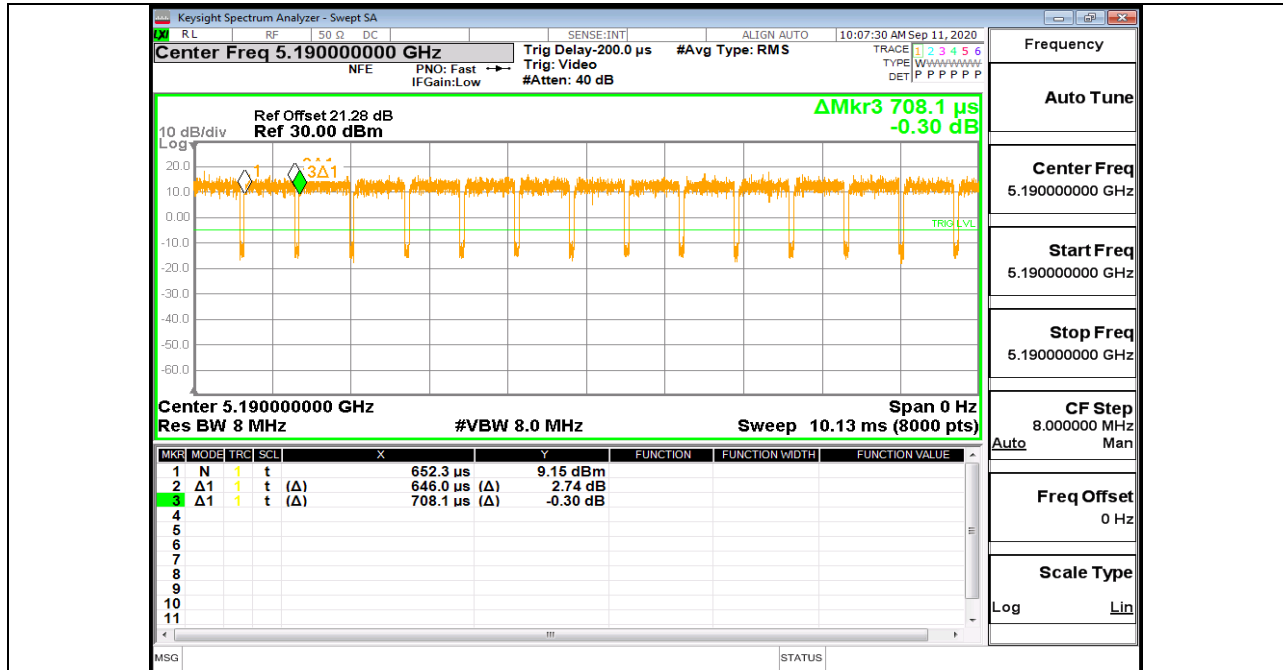
Test Graphs



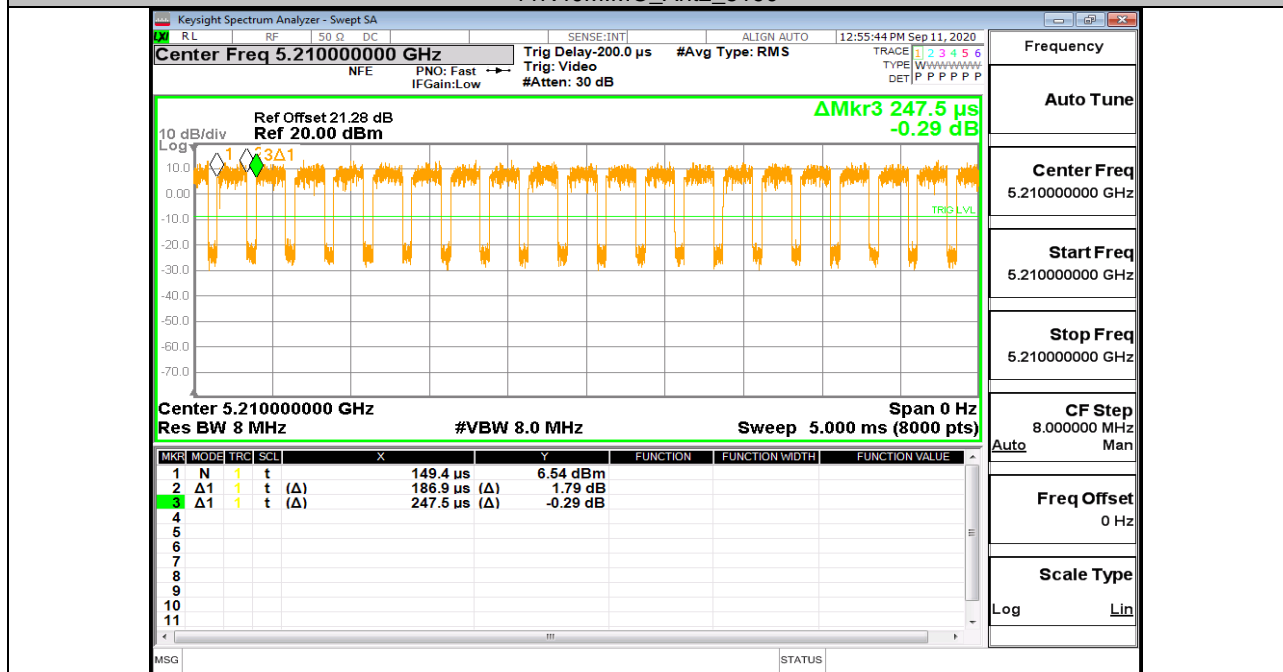
11A_Ant2_5180



11N20MIMO_Ant2_5180



11N40MIMO_Ant2_5190



11AC80MIMO_Ant2_5210

**Appendix E: Frequency Stability****Test Result**

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T _N	V _L	5199.9827	-3.33	5200.0104	2.01	5200.0051	0.99	5199.9810	-3.65
T _N	V _N	5200.0074	1.42	5199.9947	-1.03	5199.9773	-4.36	5199.9933	-1.30
T _N	V _H	5200.0128	2.46	5200.0119	2.29	5199.9877	-2.36	5199.9982	-0.35

Frequency Error vs. Temperature									
802.11a: 5200 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	V _N	5200.0185	3.56	5199.9998	-0.05	5199.9915	-1.63	5199.9946	-1.03
30	V _N	5199.9943	-1.09	5200.0139	2.67	5200.0125	2.41	5199.9765	-4.52
20	V _N	5200.0020	0.38	5200.0008	0.16	5200.0106	2.03	5200.0022	0.42
10	V _N	5200.0001	0.03	5199.9845	-2.98	5199.9796	-3.93	5200.0010	0.20
0	V _N	5199.9957	-0.83	5200.0099	1.90	5199.9902	-1.88	5199.9935	-1.25

Frequency Error vs. Voltage									
802.11a: 5825 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T _N	V _L	5825.0238	4.08	5825.0045	0.77	5824.9774	-3.88	5825.0051	0.87
T _N	V _N	5824.9814	-3.19	5825.0206	3.54	5824.9916	-1.44	5825.0028	0.48
T _N	V _H	5824.9855	-2.50	5824.9881	-2.04	5824.9864	-2.34	5824.9979	-0.37

Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	V _N	5824.9810	-3.26	5824.9938	-1.07	5824.9955	-0.77	5824.9872	-2.19
30	V _N	5824.9954	-0.79	5824.9901	-1.70	5824.9919	-1.39	5824.9849	-2.59
20	V _N	5824.9918	-1.40	5825.0080	1.37	5824.9823	-3.03	5824.9893	-1.84
10	V _N	5825.0134	2.30	5824.9820	-3.09	5825.0032	0.55	5824.9788	-3.64
0	V _N	5824.9925	-1.29	5825.0107	1.84	5825.0053	0.90	5824.9758	-4.15

Note: All the modes have been tested, only the worst data was recorded in the report.



END OF REPORT