

## RF Test Data for RLAN(5.2G) (Conducted Measurement)

Product Name: 4K OTT BOX

Trade Mark: N/A

Test Model: SX5BEL SEI600HM4 BOXQ

FCC ID: 2A0VU-SX5BEX

### Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

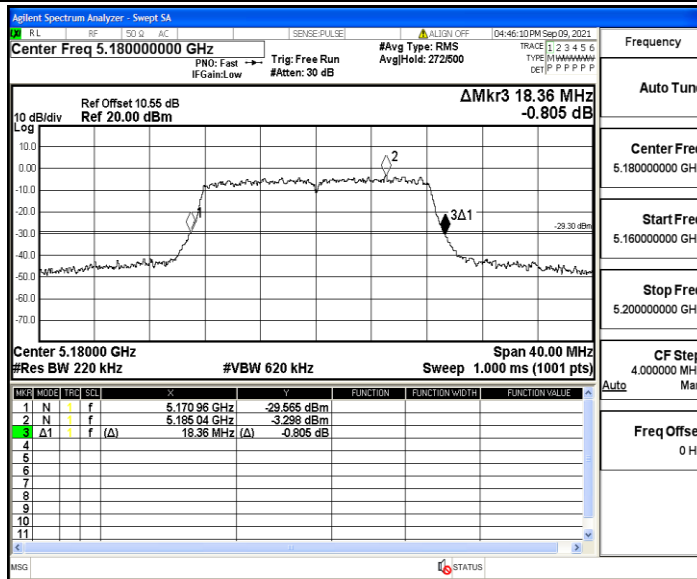
## Appendix A1: Emission Bandwidth

### Test Result

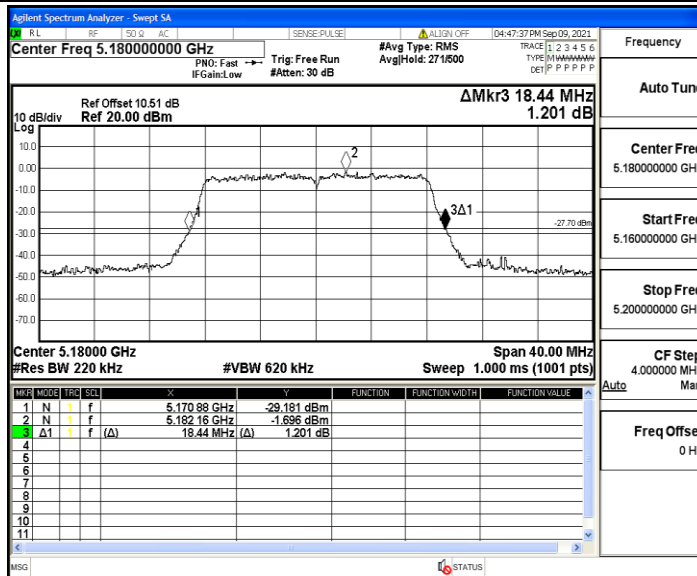
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.360	5170.960	5189.320	---	PASS
	Ant2	5180	18.440	5170.880	5189.320	---	PASS
	Ant1	5200	18.400	5190.840	5209.240	---	PASS
	Ant2	5200	18.360	5190.880	5209.240	---	PASS
	Ant1	5240	18.400	5230.840	5249.240	---	PASS
	Ant2	5240	18.440	5230.840	5249.280	---	PASS
11N20MIMO	Ant1	5180	19.440	5170.400	5189.840	---	PASS
	Ant2	5180	19.360	5170.400	5189.760	---	PASS
	Ant1	5200	19.440	5190.280	5209.720	---	PASS
	Ant2	5200	19.360	5190.360	5209.720	---	PASS
	Ant1	5240	19.360	5230.400	5249.760	---	PASS
	Ant2	5240	19.520	5230.280	5249.800	---	PASS
11N40MIMO	Ant1	5190	40.640	5169.760	5210.400	---	PASS
	Ant2	5190	40.480	5170.160	5210.640	---	PASS
	Ant1	5230	41.360	5209.520	5250.880	---	PASS
	Ant2	5230	40.960	5209.680	5250.640	---	PASS
11AC20MIMO	Ant1	5180	19.320	5170.440	5189.760	---	PASS
	Ant2	5180	19.400	5170.440	5189.840	---	PASS
	Ant1	5200	19.440	5190.320	5209.760	---	PASS
	Ant2	5200	19.480	5190.280	5209.760	---	PASS
	Ant1	5240	19.400	5230.320	5249.720	---	PASS
	Ant2	5240	19.400	5230.360	5249.760	---	PASS
11AC40MIMO	Ant1	5190	40.160	5170.000	5210.160	---	PASS
	Ant2	5190	40.240	5170.000	5210.240	---	PASS
	Ant1	5230	40.080	5210.160	5250.240	---	PASS
	Ant2	5230	40.800	5209.600	5250.400	---	PASS
11AC80MIMO	Ant1	5210	80.800	5170.160	5250.960	---	PASS
	Ant2	5210	80.800	5169.840	5250.640	---	PASS

Test Graphs

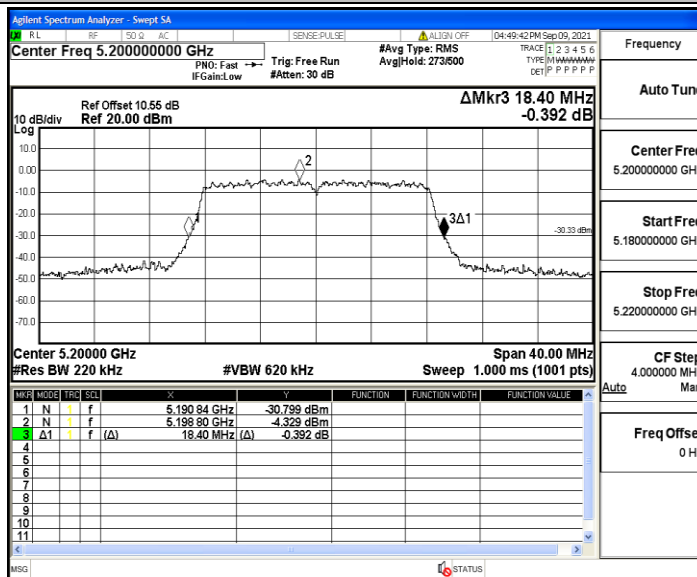
11A\_Ant1\_5180



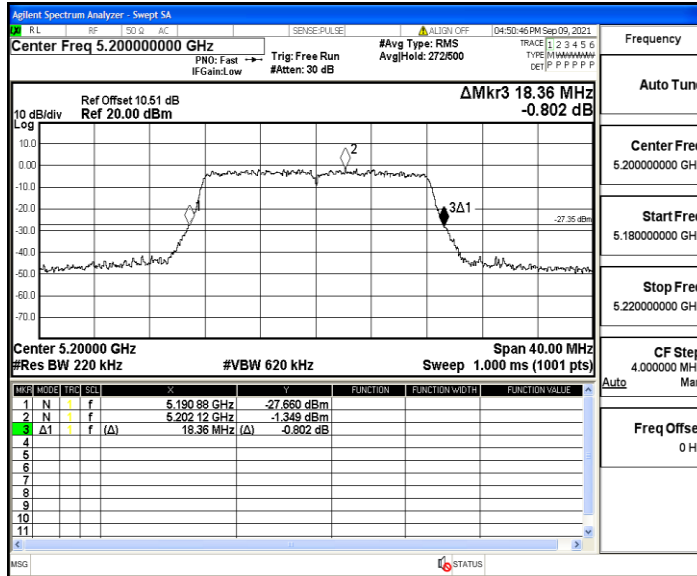
11A\_Ant2\_5180



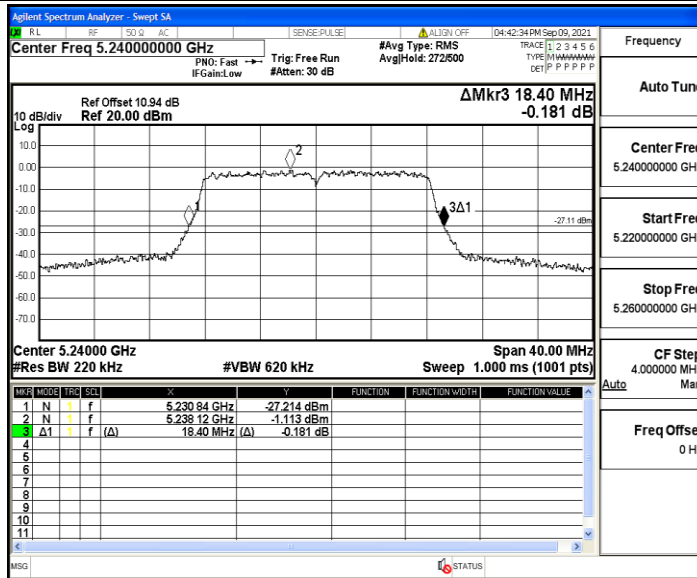
11A\_Ant1\_5200



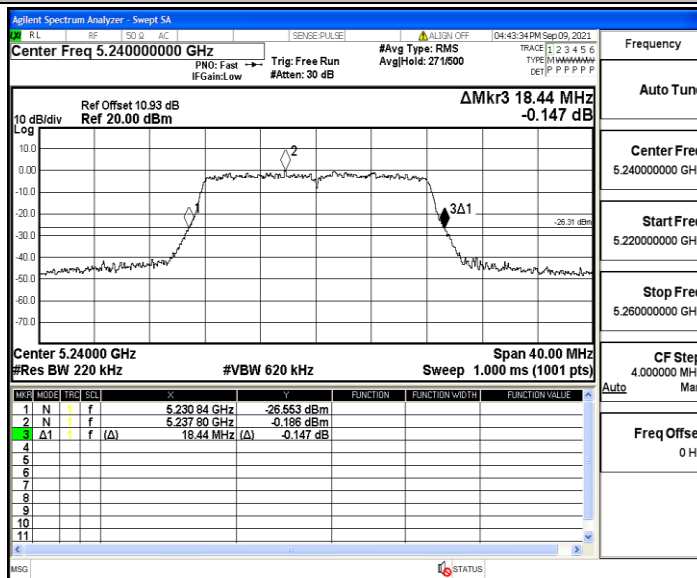
11A\_Ant2\_5200



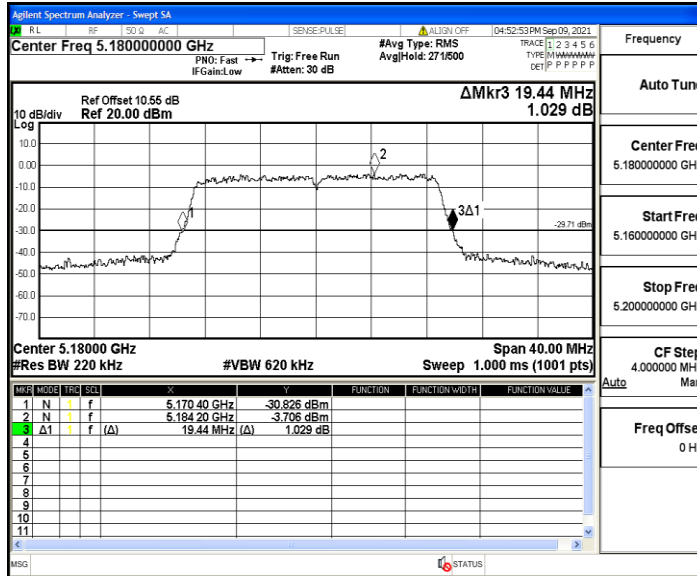
11A\_Ant1\_5240



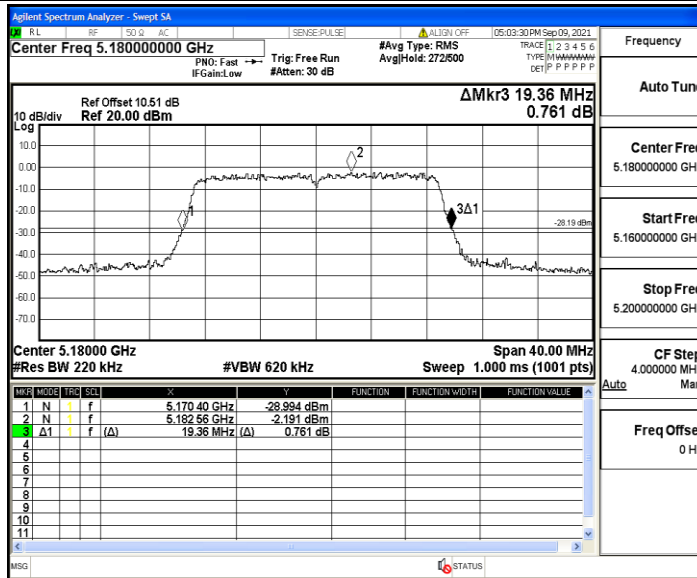
11A\_Ant2\_5240



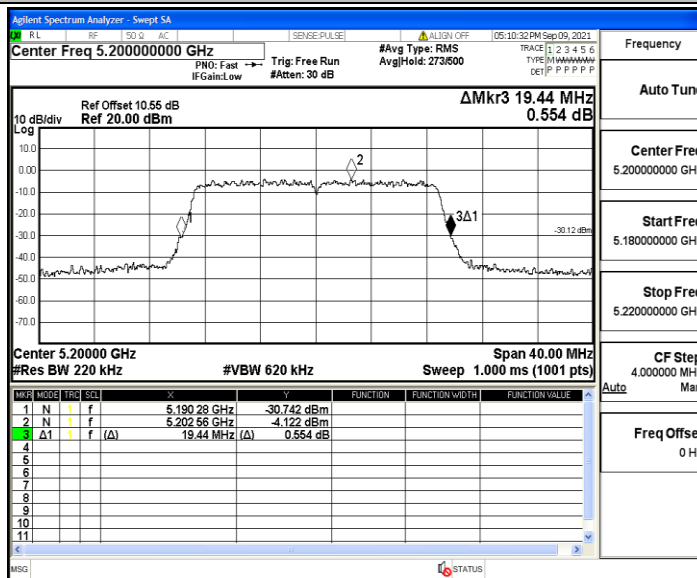
11N20MIMO\_Ant1\_5180



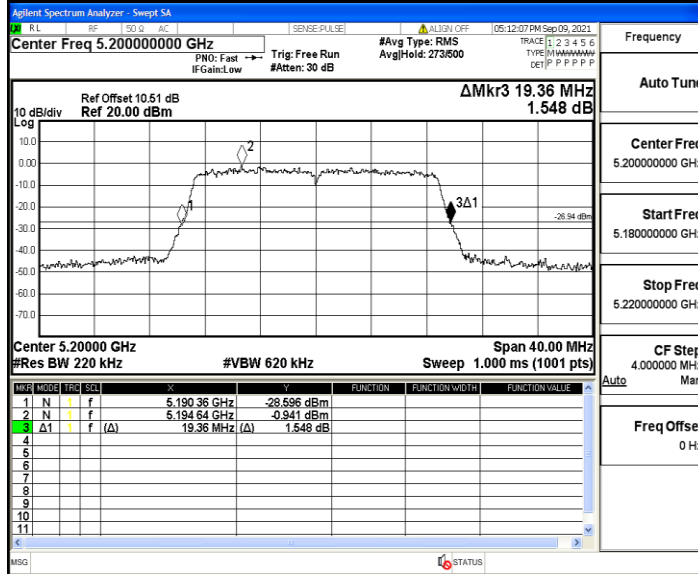
11N20MIMO\_Ant2\_5180



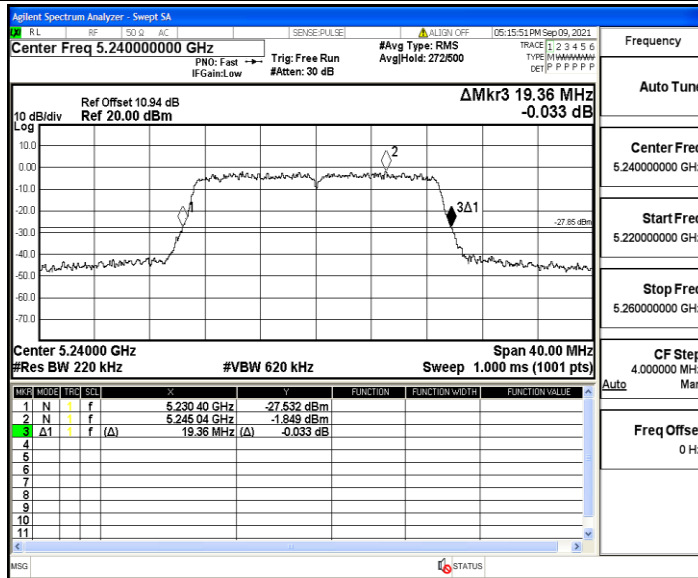
11N20MIMO\_Ant1\_5200



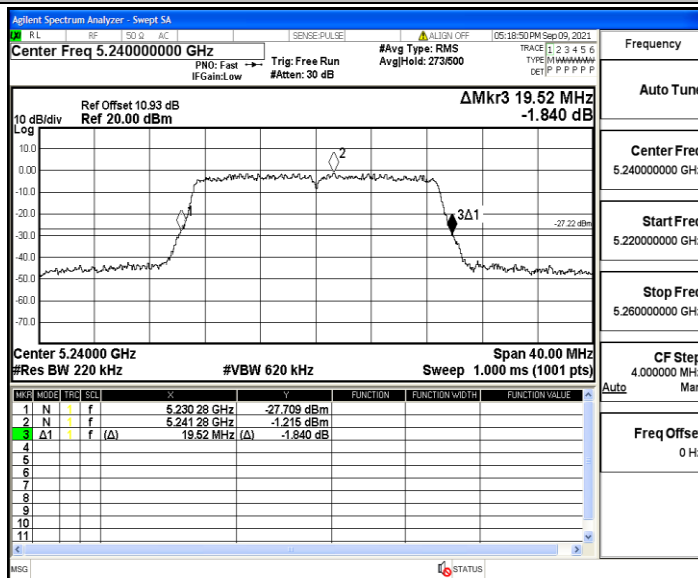
11N20MIMO\_Ant2\_5200



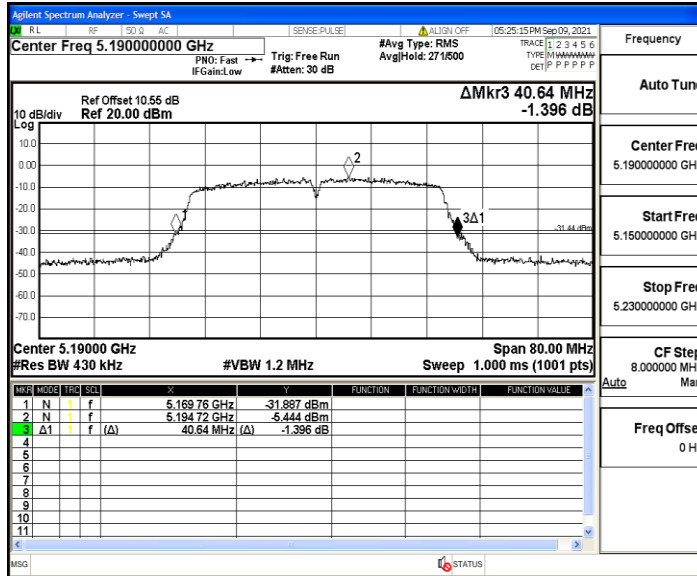
11N20MIMO\_Ant1\_5240



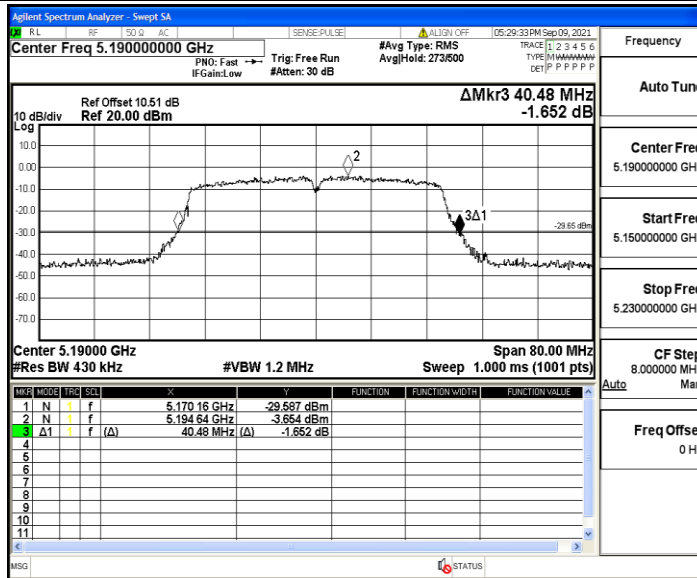
11N20MIMO\_Ant2\_5240



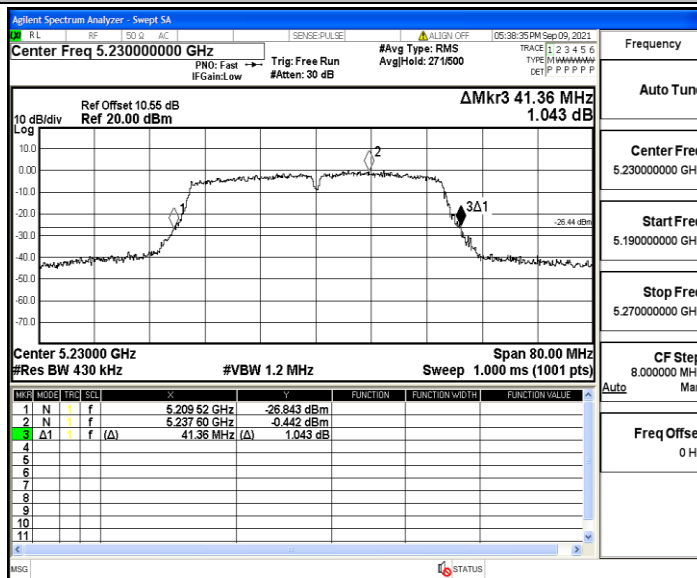
11N40MIMO\_Ant1\_5190



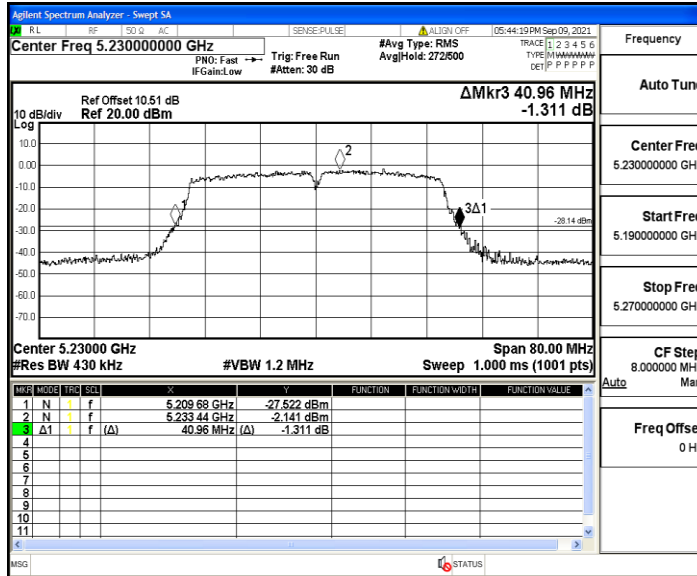
11N40MIMO\_Ant2\_5190



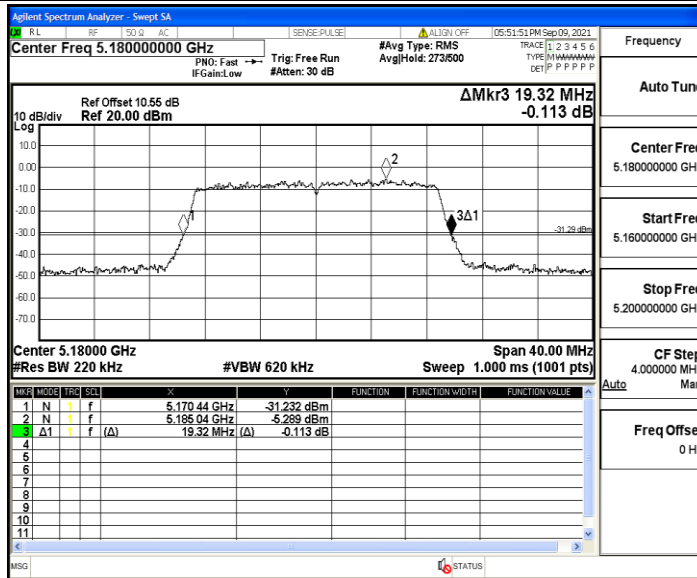
11N40MIMO\_Ant1\_5230



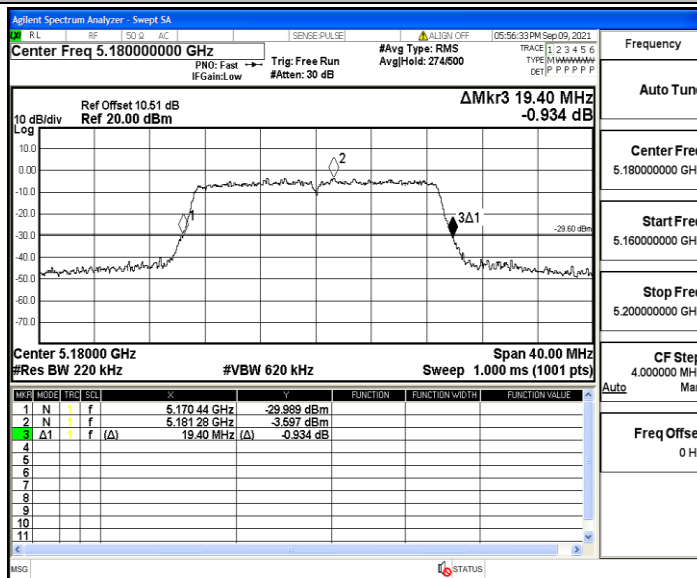
11N40MIMO\_Ant2\_5230



11AC20MIMO\_Ant1\_5180

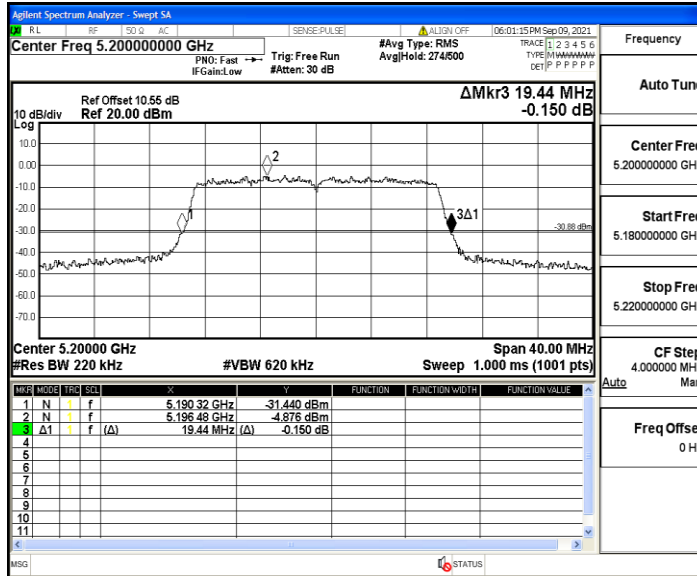


11AC20MIMO\_Ant2\_5180

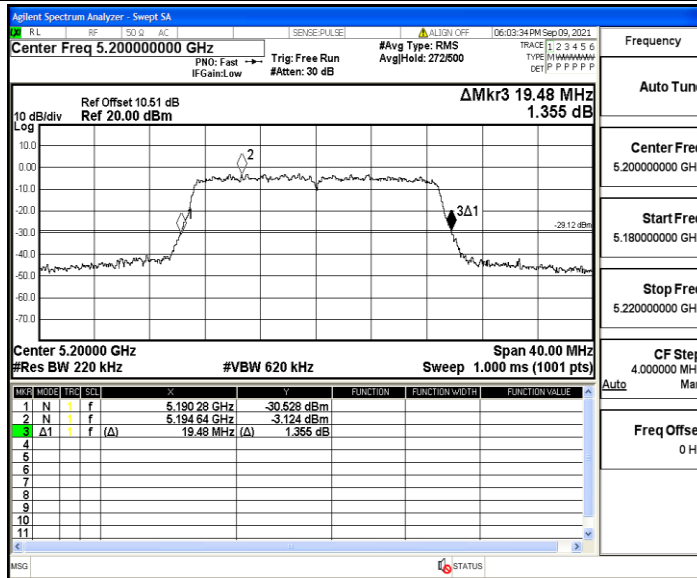


11AC20MIMO\_Ant1\_5200

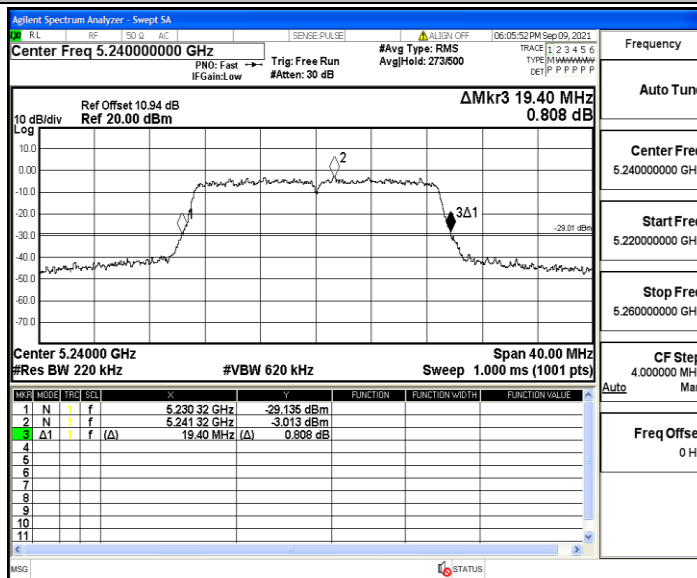




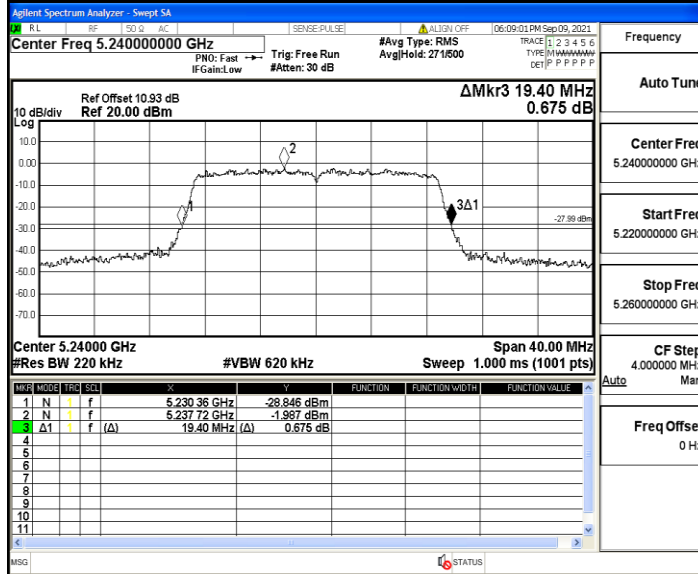
11AC20MIMO\_Ant2\_5200



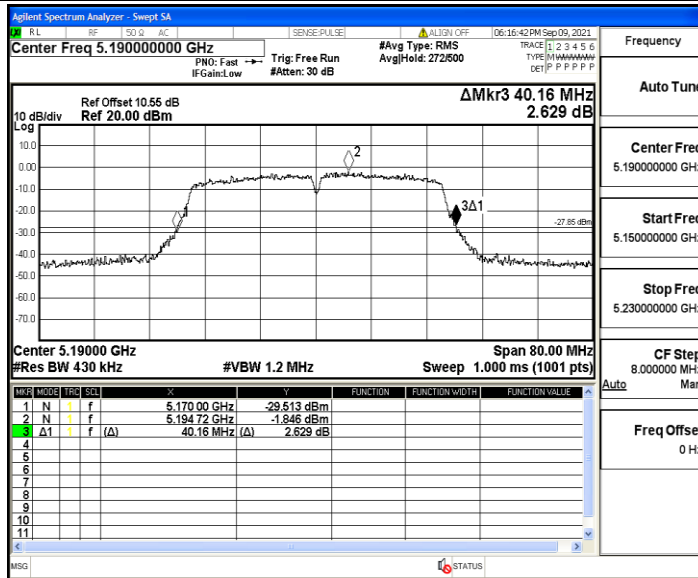
11AC20MIMO\_Ant1\_5240



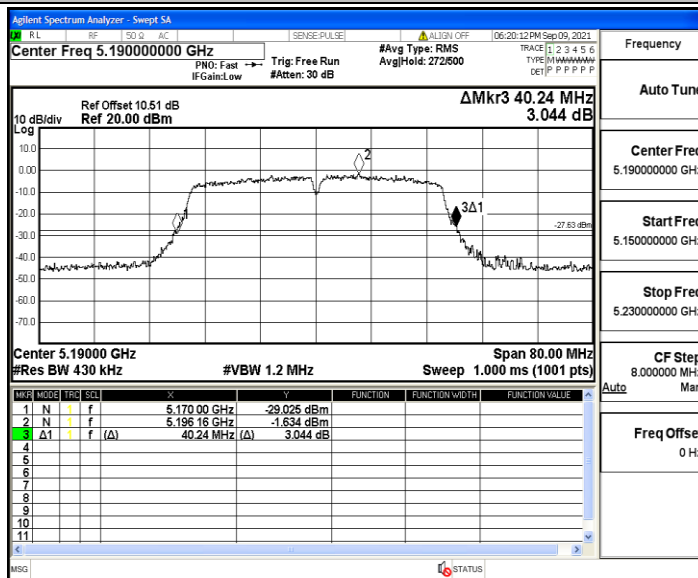
11AC20MIMO\_Ant2\_5240



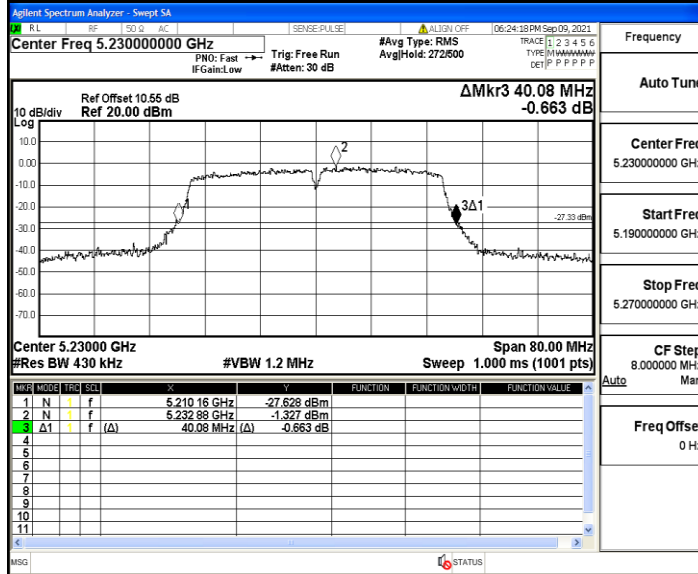
11AC40MIMO\_Ant1\_5190



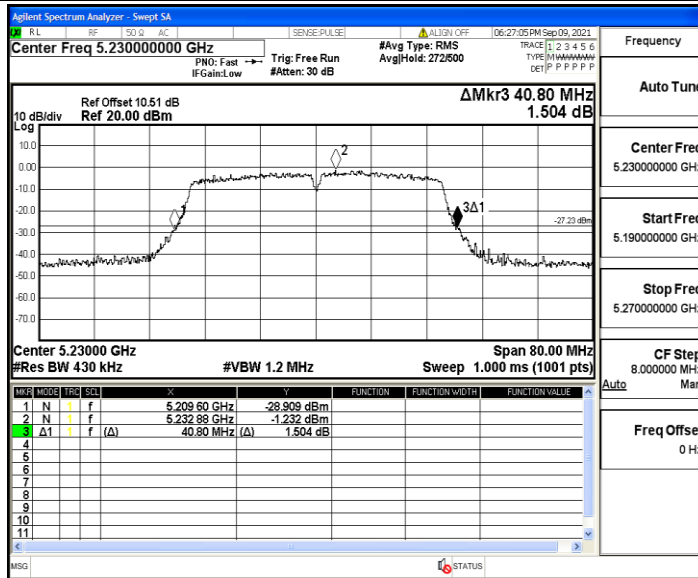
11AC40MIMO\_Ant2\_5190



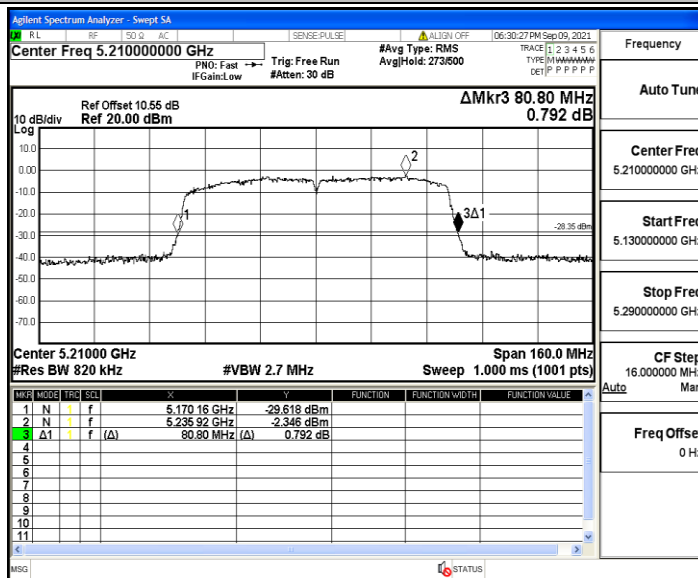
11AC40MIMO\_Ant1\_5230



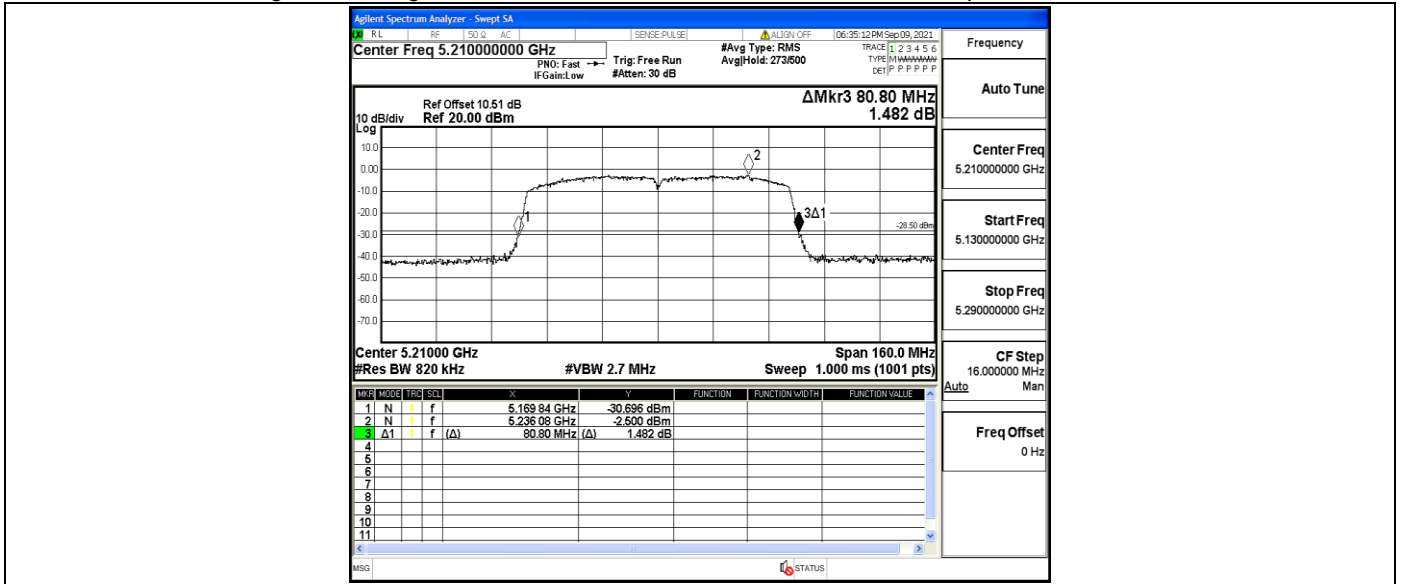
11AC40MIMO\_Ant2\_5230



11AC80MIMO\_Ant1\_5210



11AC80MIMO\_Ant2\_5210



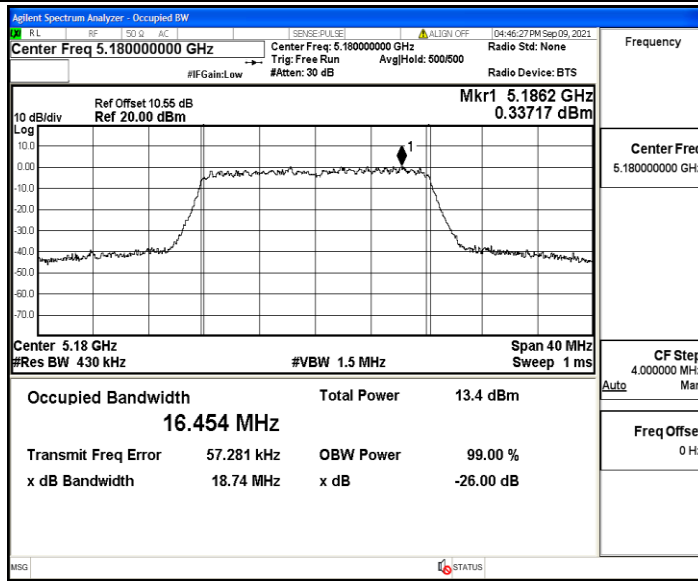
## Appendix A2: Occupied channel bandwidth

### Test Result

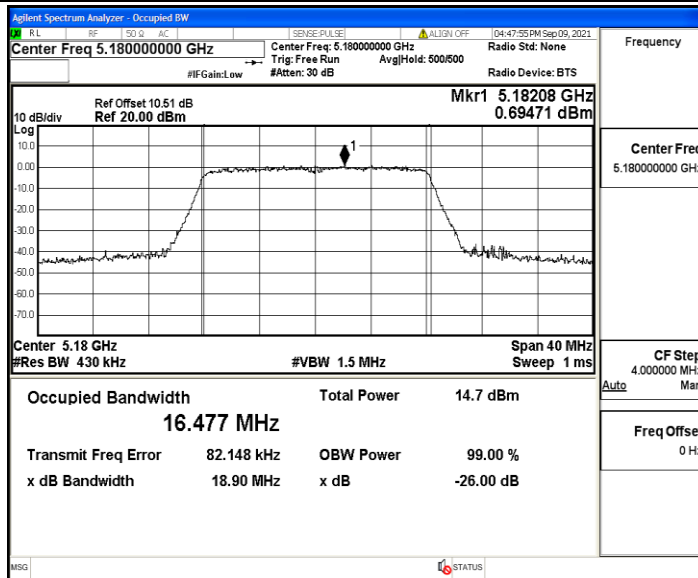
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.454	5171.830	5188.284	---	PASS
	Ant2	5180	16.477	5171.844	5188.321	---	PASS
	Ant1	5200	16.457	5191.794	5208.251	---	PASS
	Ant2	5200	16.457	5191.795	5208.252	---	PASS
	Ant1	5240	16.433	5231.821	5248.254	---	PASS
	Ant2	5240	16.457	5231.812	5248.269	---	PASS
11N20MIMO	Ant1	5180	17.617	5171.277	5188.894	---	PASS
	Ant2	5180	17.626	5171.263	5188.889	---	PASS
	Ant1	5200	17.613	5191.239	5208.852	---	PASS
	Ant2	5200	17.611	5191.219	5208.830	---	PASS
	Ant1	5240	17.594	5231.265	5248.859	---	PASS
	Ant2	5240	17.605	5231.229	5248.834	---	PASS
11N40MIMO	Ant1	5190	36.254	5172.053	5208.307	---	PASS
	Ant2	5190	36.349	5171.986	5208.335	---	PASS
	Ant1	5230	36.469	5211.970	5248.439	---	PASS
	Ant2	5230	36.385	5211.872	5248.257	---	PASS
11AC20MIMO	Ant1	5180	17.615	5171.283	5188.898	---	PASS
	Ant2	5180	17.622	5171.264	5188.886	---	PASS
	Ant1	5200	17.616	5191.239	5208.855	---	PASS
	Ant2	5200	17.593	5191.225	5208.818	---	PASS
	Ant1	5240	17.584	5231.264	5248.848	---	PASS
	Ant2	5240	17.597	5231.240	5248.837	---	PASS
11AC40MIMO	Ant1	5190	36.176	5172.114	5208.290	---	PASS
	Ant2	5190	36.132	5172.083	5208.215	---	PASS
	Ant1	5230	36.255	5212.075	5248.330	---	PASS
	Ant2	5230	36.306	5211.958	5248.264	---	PASS
11AC80MIMO	Ant1	5210	74.177	5173.629	5247.806	---	PASS
	Ant2	5210	74.386	5173.214	5247.600	---	PASS

Test Graphs

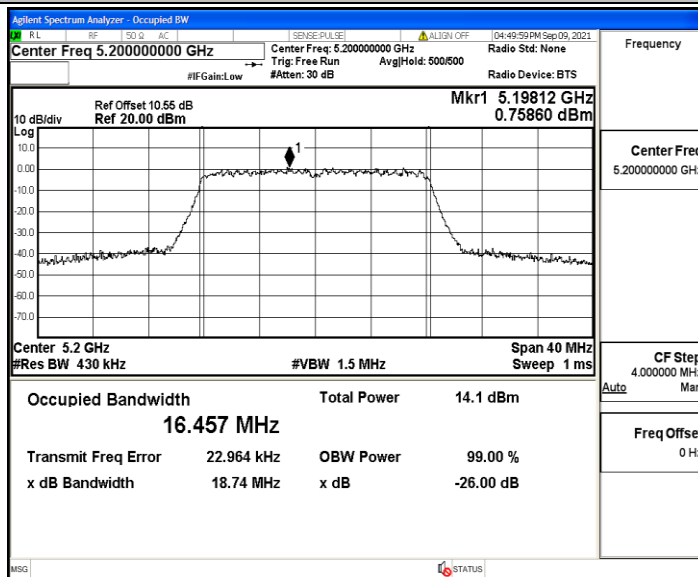
11A\_Ant1\_5180



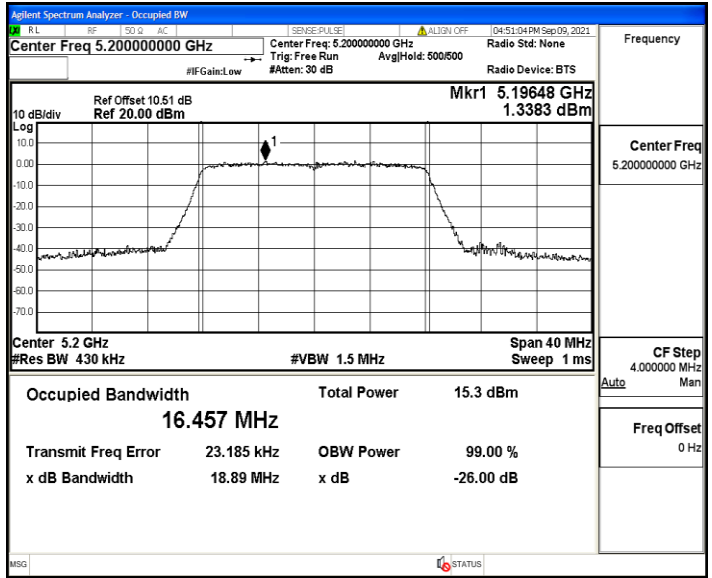
11A\_Ant2\_5180



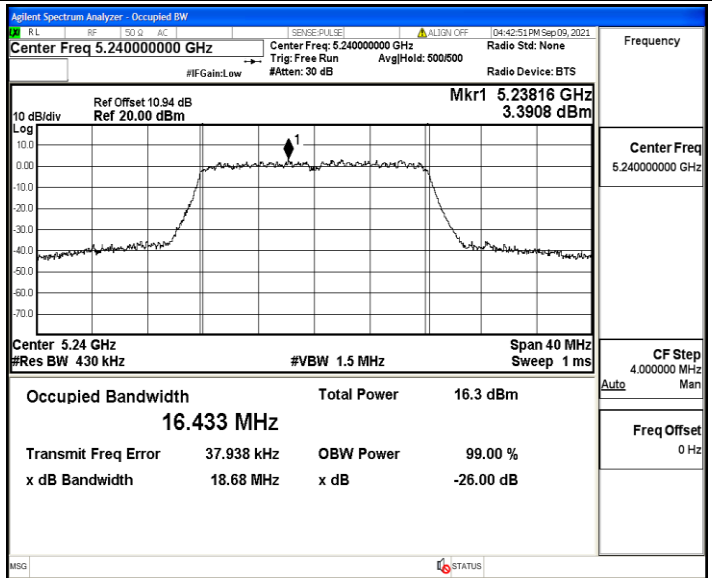
11A\_Ant1\_5200



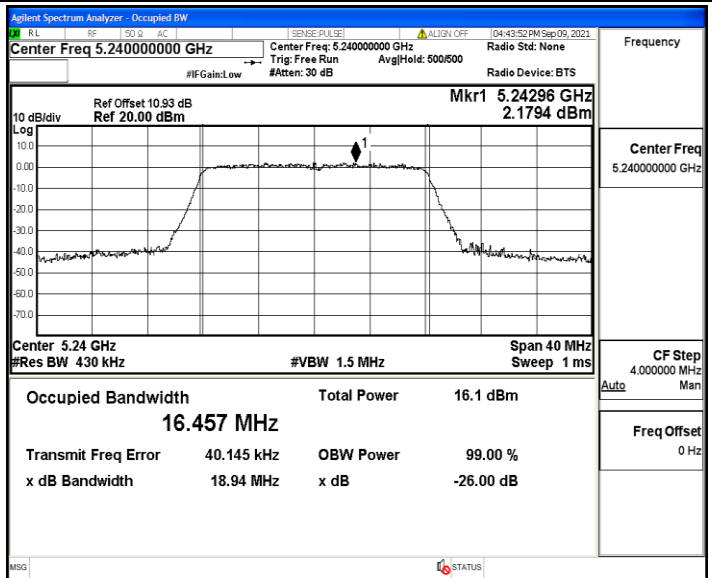
11A\_Ant2\_5200



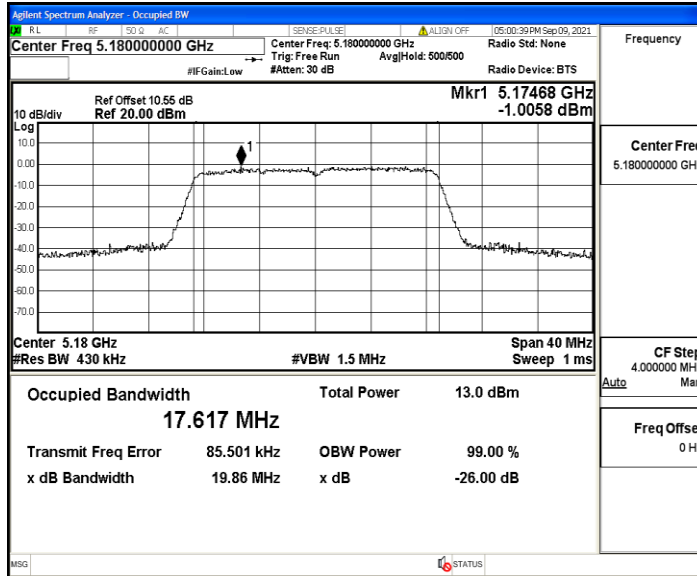
11A\_Ant1\_5240



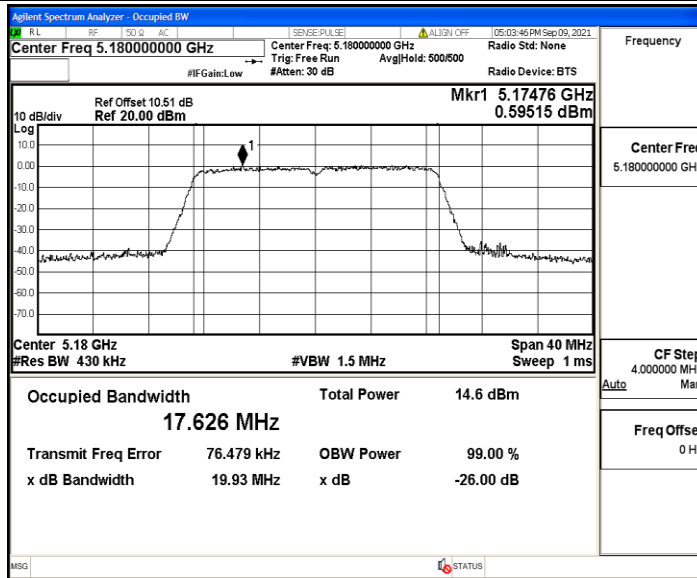
11A\_Ant2\_5240



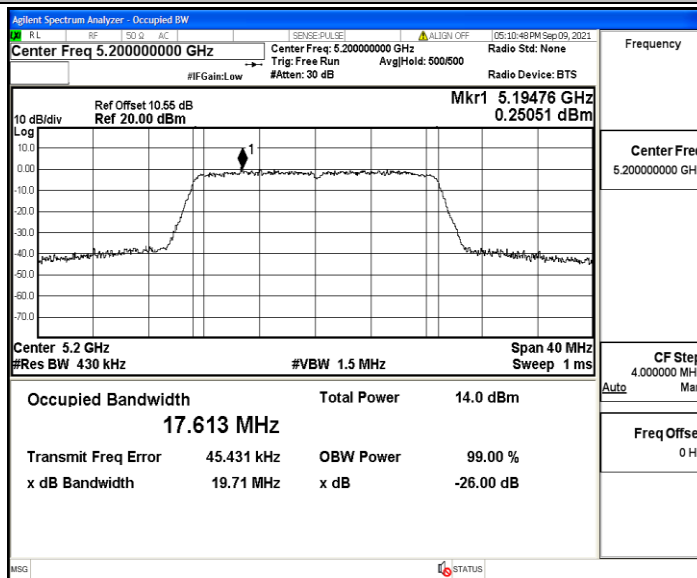
11N20MIMO\_Ant1\_5180



11N20MIMO\_Ant2\_5180

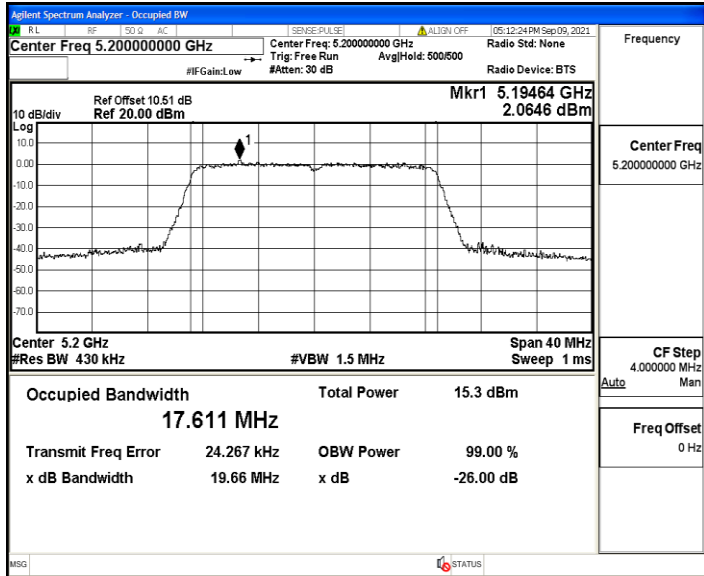


11N20MIMO\_Ant1\_5200

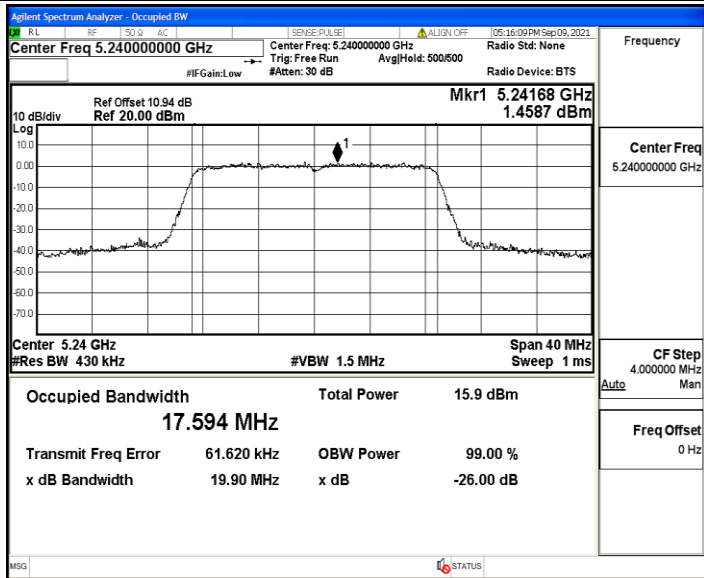


11N20MIMO\_Ant2\_5200

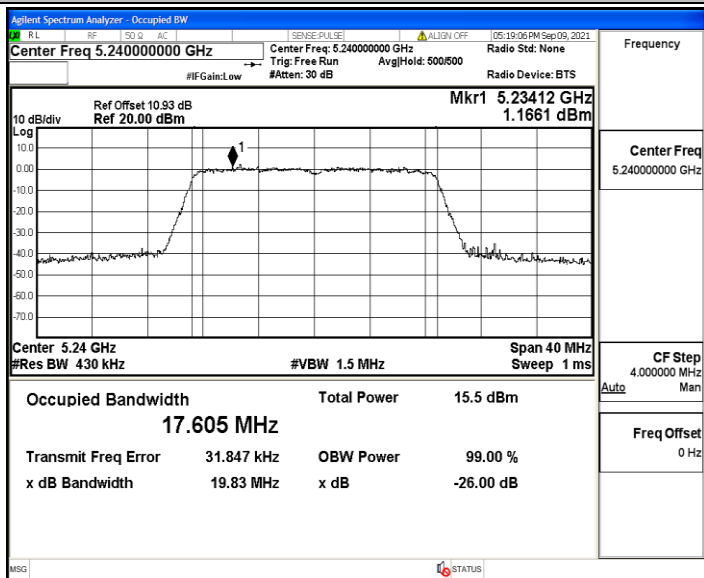




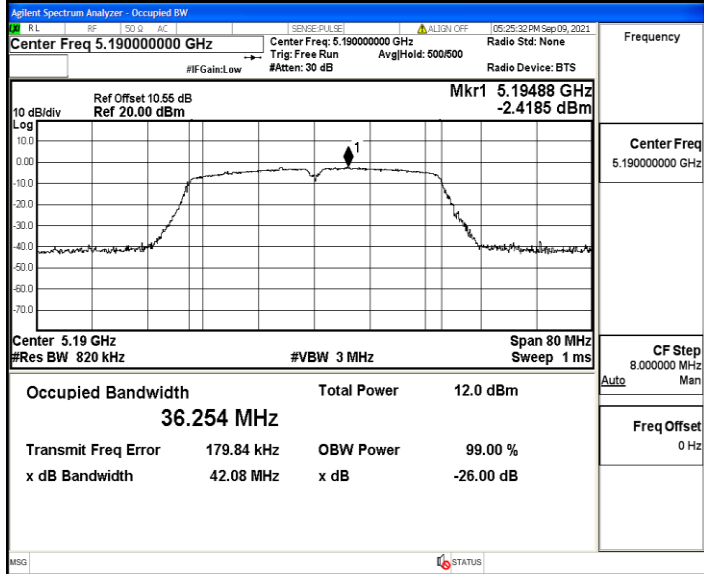
11N20MIMO\_Ant1\_5240



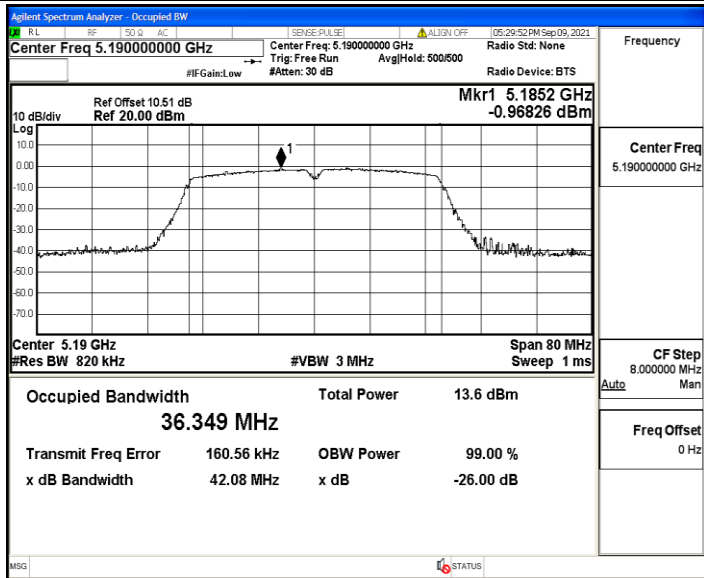
11N20MIMO\_Ant2\_5240



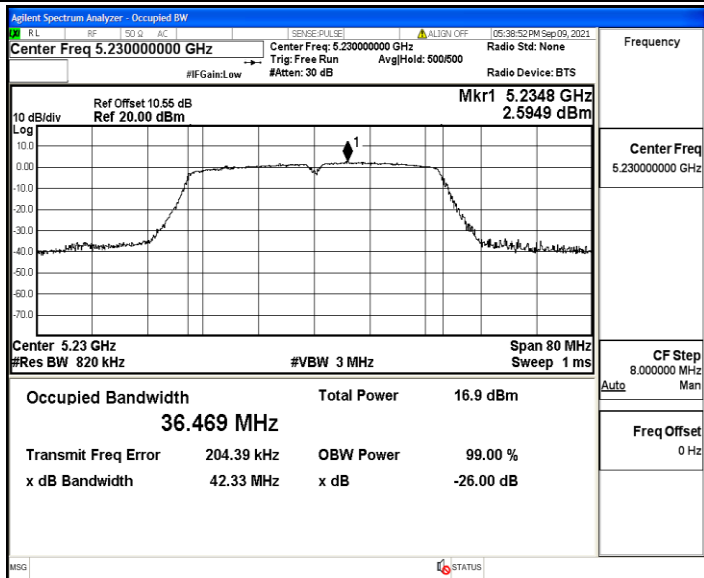
11N40MIMO\_Ant1\_5190



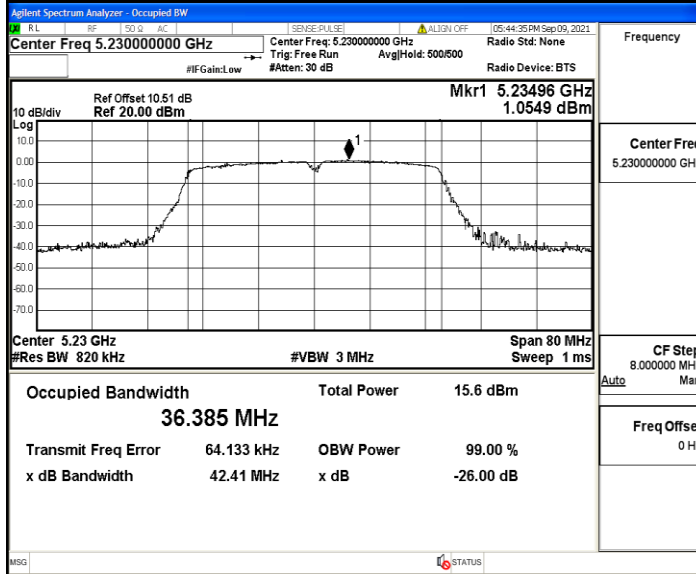
11N40MIMO\_Ant2\_5190



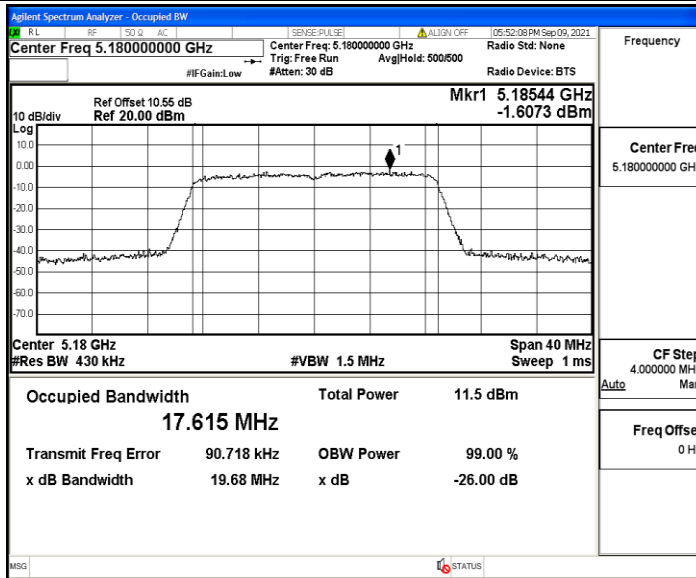
11N40MIMO\_Ant1\_5230



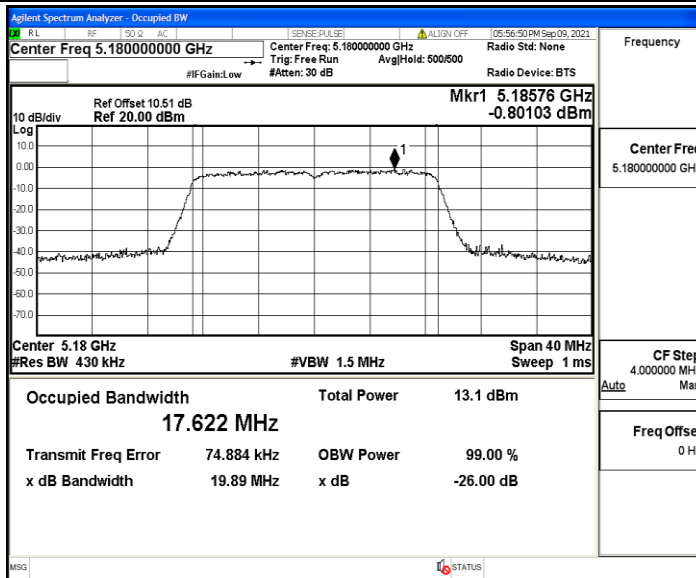
11N40MIMO\_Ant2\_5230



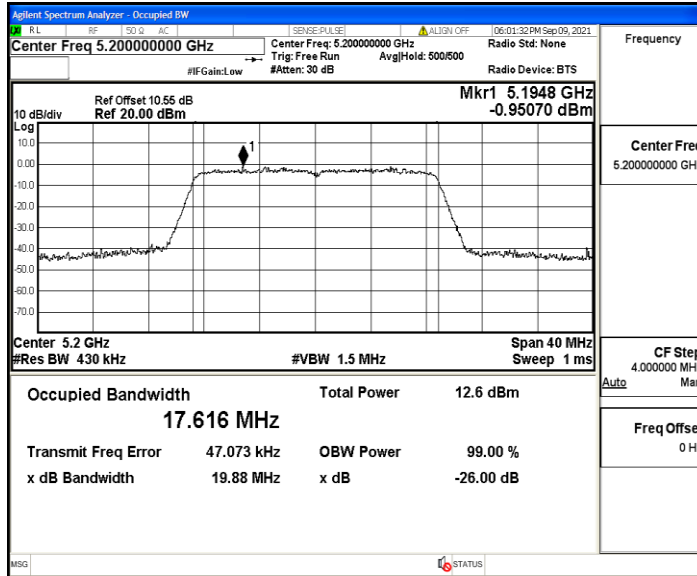
11AC20MIMO\_Ant1\_5180



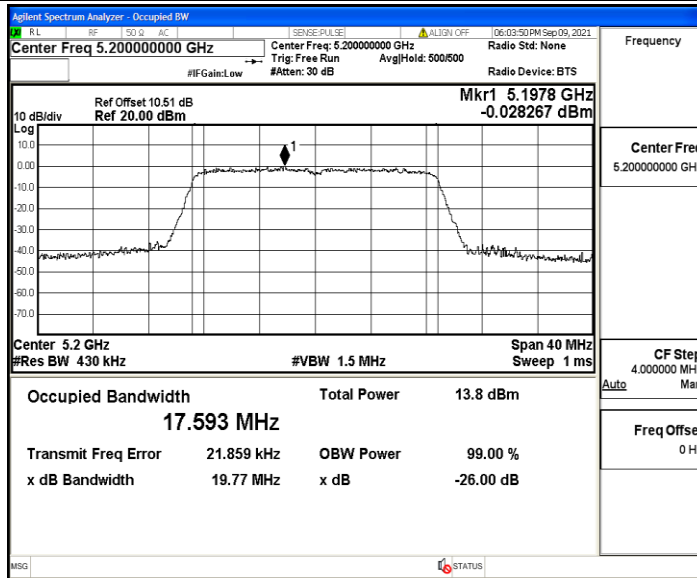
11AC20MIMO\_Ant2\_5180



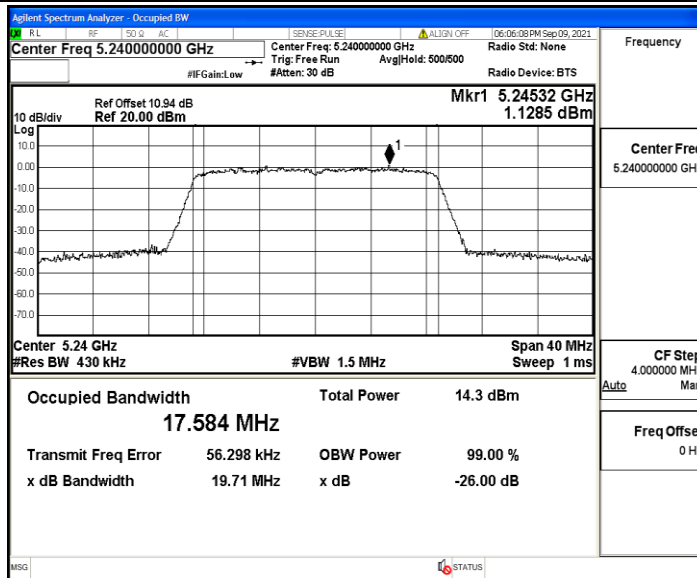
11AC20MIMO\_Ant1\_5200



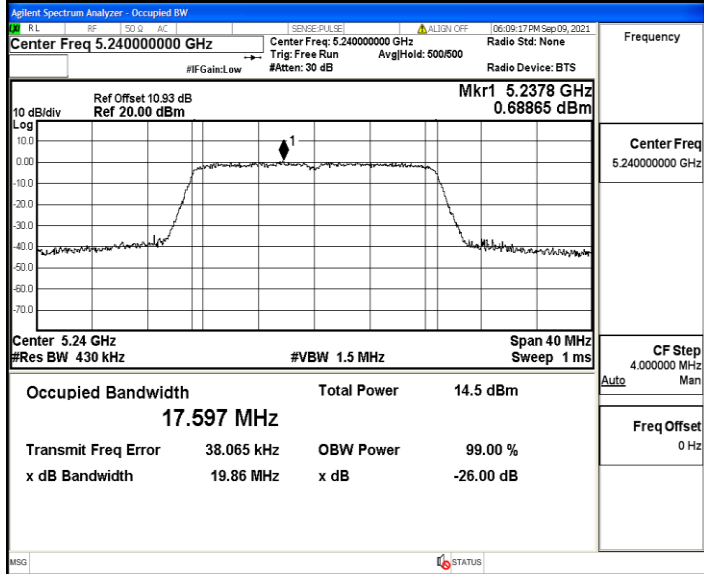
11AC20MIMO\_Ant2\_5200



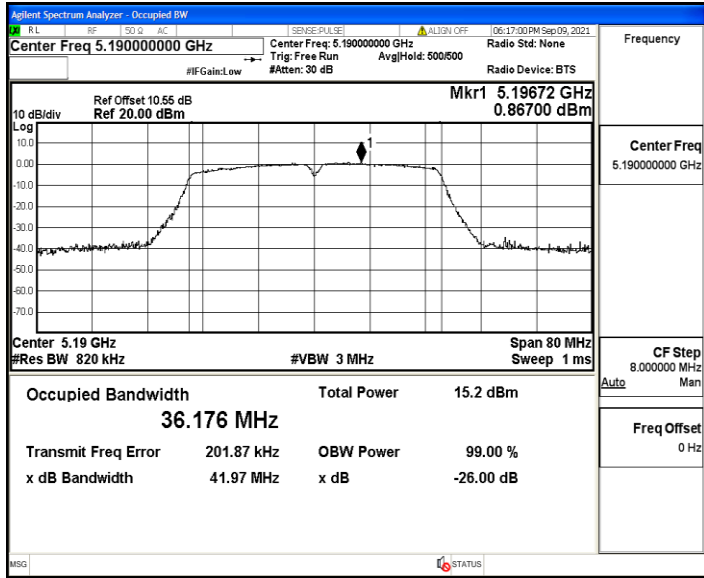
11AC20MIMO\_Ant1\_5240



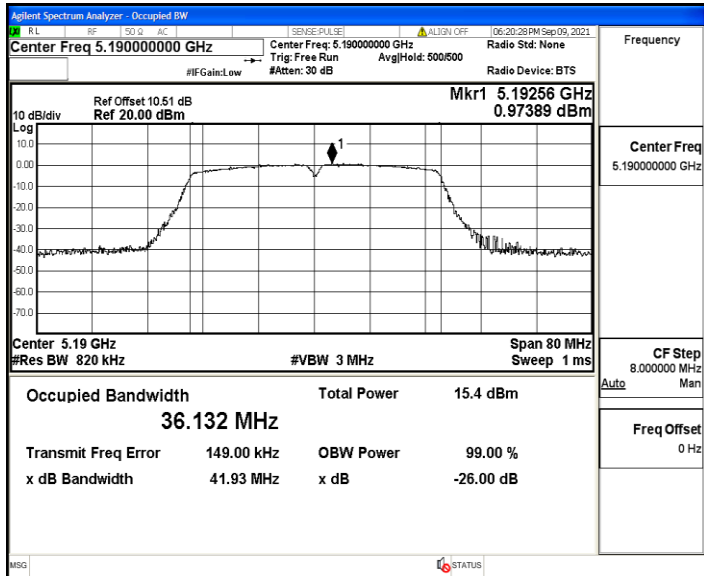
11AC20MIMO\_Ant2\_5240



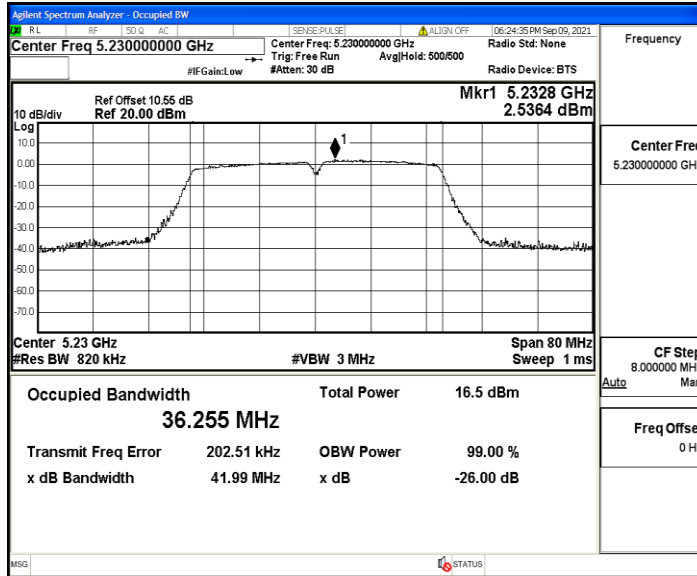
11AC40MIMO\_Ant1\_5190



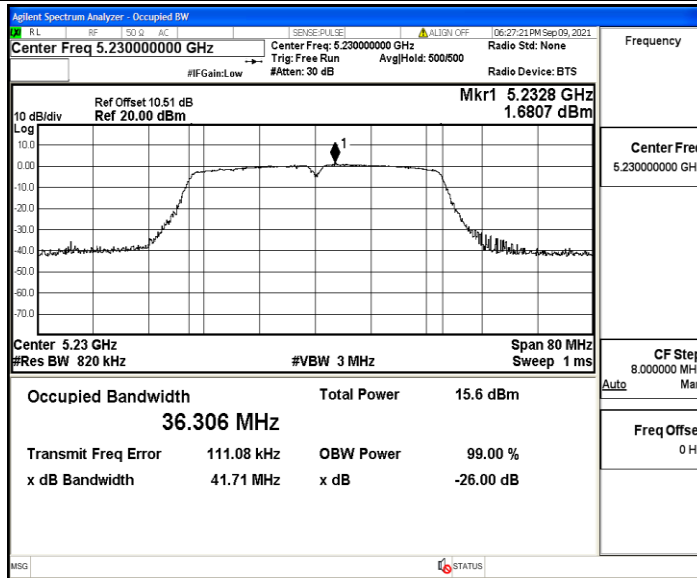
11AC40MIMO\_Ant2\_5190



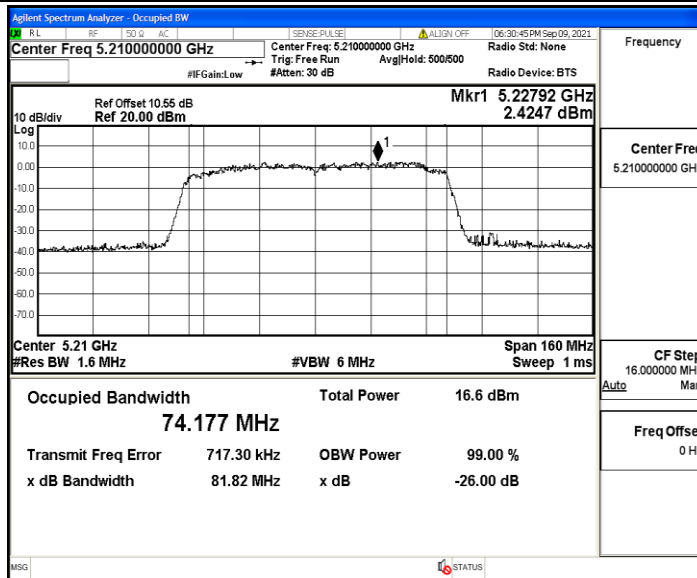
11AC40MIMO\_Ant1\_5230



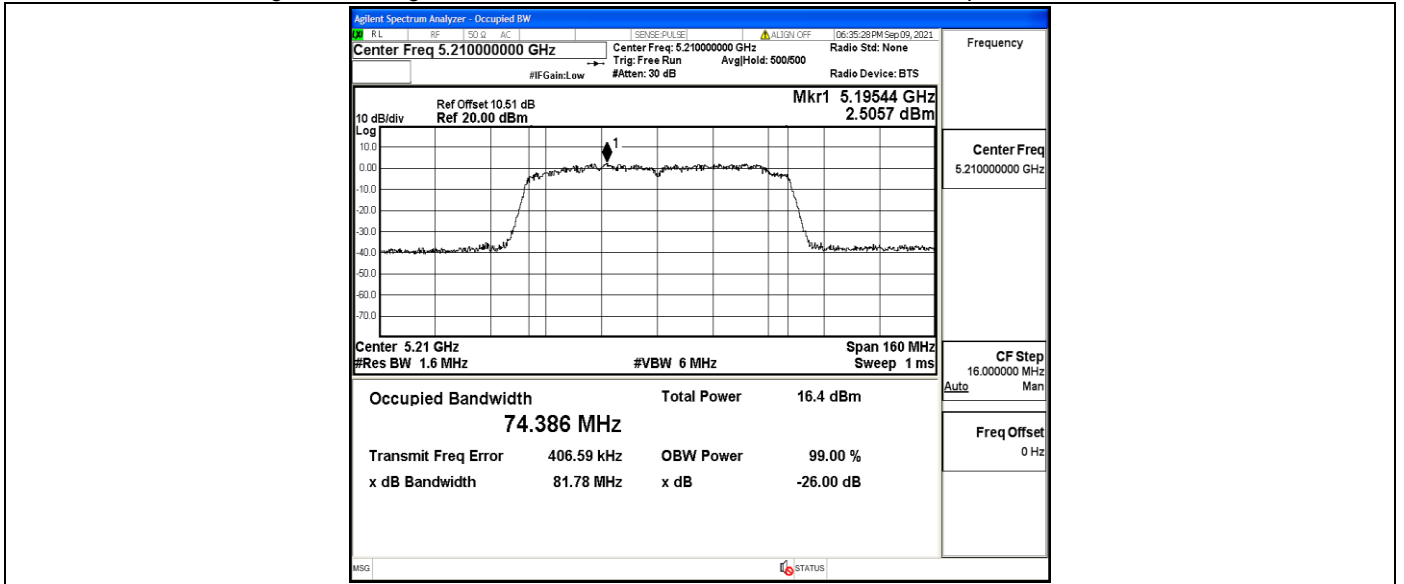
11AC40MIMO\_Ant2\_5230



11AC80MIMO\_Ant1\_5210



11AC80MIMO\_Ant2\_5210



## Appendix B: Maximum conducted output power

### Test Result

Test Mode	Antenna	Channel	Power [dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	6.15	≤23.98	10.33	≤22.16	PASS
	Ant2	5180	7.97	≤23.98	12.61	≤22.17	PASS
	Ant1	5200	7.20	≤23.98	11.38	≤22.16	PASS
	Ant2	5200	8.49	≤23.98	13.13	≤22.16	PASS
	Ant1	5240	9.10	≤23.98	13.28	≤22.16	PASS
	Ant2	5240	9.43	≤23.98	14.07	≤22.16	PASS
11N20MIMO	Ant1	5180	6.11	≤23.98	10.29	≤22.46	PASS
	Ant2	5180	8.06	≤23.98	12.70	≤22.46	PASS
	total	5180	10.2	≤22.55	14.67	≤22.46	PASS
	Ant1	5200	7.51	≤23.98	11.69	≤22.46	PASS
	Ant2	5200	7.93	≤23.98	12.57	≤22.46	PASS
	total	5200	10.7	≤22.55	15.16	≤22.46	PASS
	Ant1	5240	7.11	≤23.98	11.29	≤22.45	PASS
	Ant2	5240	8.00	≤23.98	12.64	≤22.46	PASS
	total	5240	10.6	≤22.55	15.03	≤22.46	PASS
11N40MIMO	Ant1	5190	7.99	≤23.98	12.17	≤23	PASS
	Ant2	5190	8.35	≤23.98	12.99	≤23	PASS
	total	5190	11.2	≤22.55	15.61	≤23	PASS
	Ant1	5230	9.91	≤23.98	14.09	≤23	PASS
	Ant2	5230	8.47	≤23.98	13.11	≤23	PASS
	total	5230	12.3	≤22.55	16.64	≤23	PASS
11AC20MIMO	Ant1	5180	5.07	≤23.98	9.25	≤22.46	PASS
	Ant2	5180	6.56	≤23.98	11.20	≤22.46	PASS
	total	5180	8.9	≤22.55	13.34	≤22.46	PASS
	Ant1	5200	6.29	≤23.98	10.47	≤22.46	PASS
	Ant2	5200	6.96	≤23.98	11.60	≤22.45	PASS
	total	5200	9.6	≤22.55	14.08	≤22.45	PASS
	Ant1	5240	6.53	≤23.98	10.71	≤22.45	PASS
	Ant2	5240	7.94	≤23.98	12.58	≤22.45	PASS
	total	5240	10.3	≤22.55	14.76	≤22.45	PASS
11AC40MIMO	Ant1	5190	8.44	≤23.98	12.62	≤23	PASS
	Ant2	5190	8.26	≤23.98	12.90	≤23	PASS
	total	5190	11.4	≤22.55	15.77	≤23	PASS
	Ant1	5230	9.72	≤23.98	13.90	≤23	PASS
	Ant2	5230	8.40	≤23.98	13.04	≤23	PASS
	total	5230	12.1	≤22.55	16.50	≤23	PASS
11AC80MIMO	Ant1	5210	8.15	≤23.98	12.33	≤23	PASS
	Ant2	5210	7.87	≤23.98	12.51	≤23	PASS
	total	5210	11.0	≤22.55	15.43	≤23	PASS

Note1: The Duty Cycle Factor is compensated in the graph.

Note2: The EIRP value is not for FCC.



## Appendix C: Maximum power spectral density

### Test Result

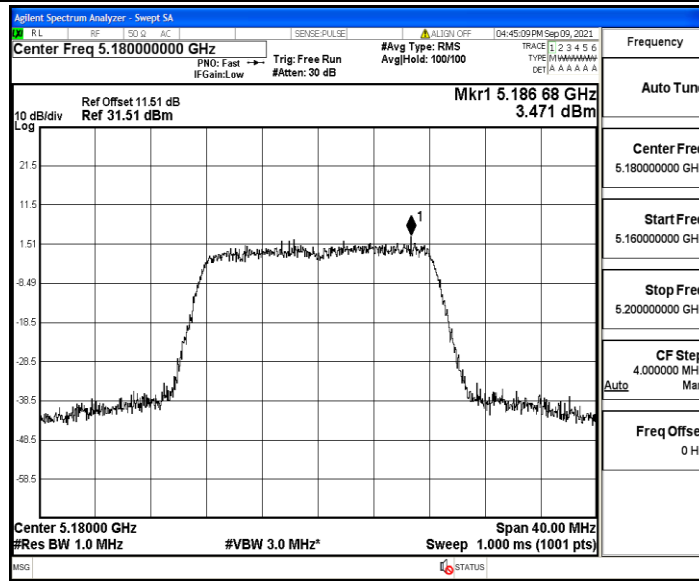
Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	3.47	≤11	7.65	≤10	PASS
	Ant2	5180	3.17	≤11	7.81	≤10	PASS
	Ant1	5200	4.31	≤11	8.49	≤10	PASS
	Ant2	5200	4.11	≤11	8.75	≤10	PASS
	Ant1	5240	4.92	≤11	9.10	≤10	PASS
	Ant2	5240	4.88	≤11	9.52	≤10	PASS
11N20MIMO	Ant1	5180	1.79	≤11	5.97	≤10	PASS
	Ant2	5180	2.89	≤11	7.53	≤10	PASS
	total	5180	5.39	≤9.57	9.83	≤10	PASS
	Ant1	5200	2.58	≤11	6.76	≤10	PASS
	Ant2	5200	2.2	≤11	6.84	≤10	PASS
	total	5200	5.40	≤9.57	9.81	≤10	PASS
	Ant1	5240	1.26	≤11	5.44	≤10	PASS
	Ant2	5240	2.32	≤11	6.96	≤10	PASS
total	5240	4.83	≤9.57	9.28	≤10	PASS	
11N40MIMO	Ant1	5190	0.26	≤11	4.44	≤10	PASS
	Ant2	5190	0.8	≤11	5.44	≤10	PASS
	total	5190	3.55	≤9.57	7.98	≤10	PASS
	Ant1	5230	3.12	≤11	7.30	≤10	PASS
	Ant2	5230	1.68	≤11	6.32	≤10	PASS
	total	5230	5.47	≤9.57	9.85	≤10	PASS
11AC20MIMO	Ant1	5180	0.83	≤11	5.01	≤10	PASS
	Ant2	5180	1.48	≤11	6.12	≤10	PASS
	total	5180	4.18	≤9.57	8.61	≤10	PASS
	Ant1	5200	1.23	≤11	5.41	≤10	PASS
	Ant2	5200	2.65	≤11	7.29	≤10	PASS
	total	5200	5.01	≤9.57	9.46	≤10	PASS
	Ant1	5240	2.75	≤11	6.93	≤10	PASS
	Ant2	5240	2.02	≤11	6.66	≤10	PASS
total	5240	5.41	≤9.57	9.81	≤10	PASS	
11AC40MIMO	Ant1	5190	2.24	≤11	6.42	≤10	PASS
	Ant2	5190	1.24	≤11	5.88	≤10	PASS
	total	5190	4.78	≤9.57	9.17	≤10	PASS
	Ant1	5230	3.05	≤11	7.23	≤10	PASS
	Ant2	5230	1.57	≤11	6.21	≤10	PASS
	total	5230	5.38	≤9.57	9.76	≤10	PASS
11AC80MIMO	Ant1	5210	-0.75	≤11	3.43	≤10	PASS
	Ant2	5210	-0.69	≤11	3.95	≤10	PASS
	total	5210	2.29	≤9.57	6.71	≤10	PASS

Note1: TThe Duty Cycle Factor and RBW Factor is compensated in the graph.

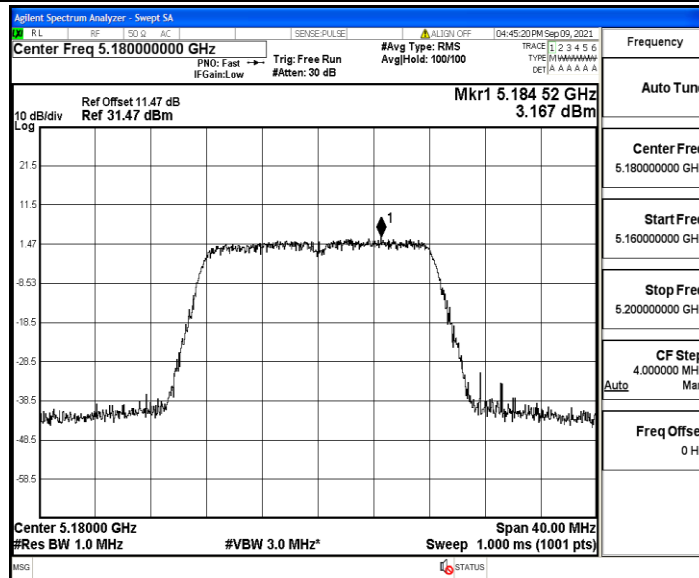
Note2: TheEIRP value is not for FCC.

### Test Graphs

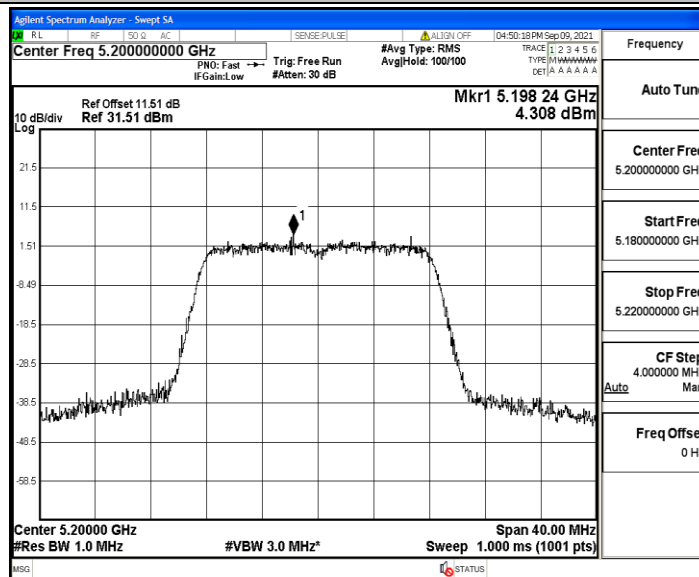
11A\_Ant1\_5180



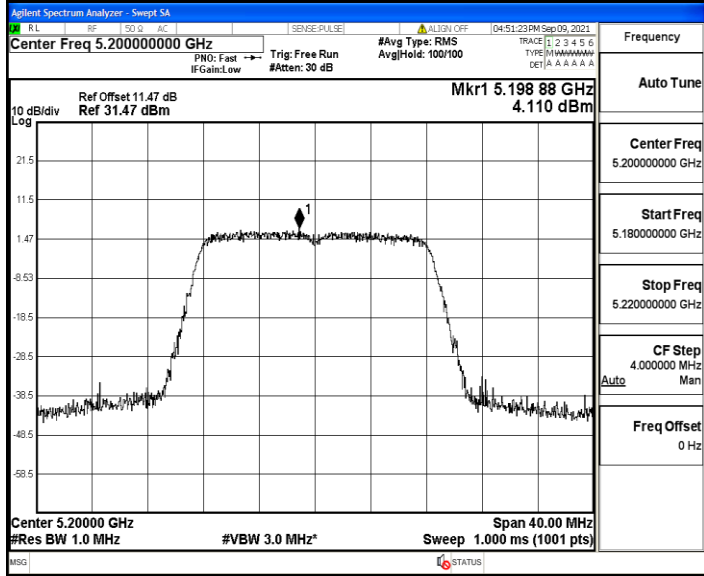
11A\_Ant2\_5180



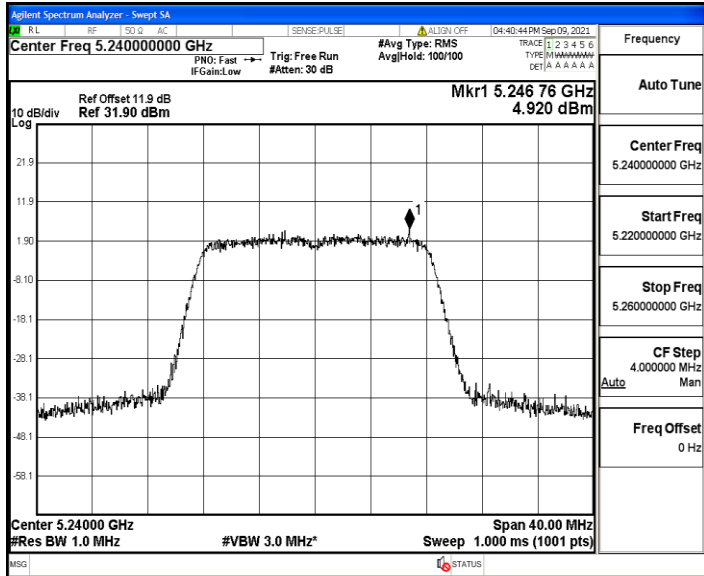
11A\_Ant1\_5200



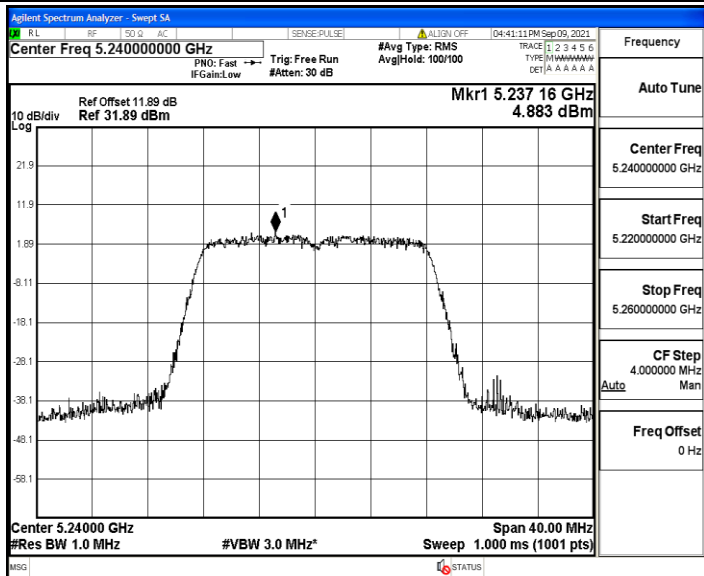
11A\_Ant2\_5200



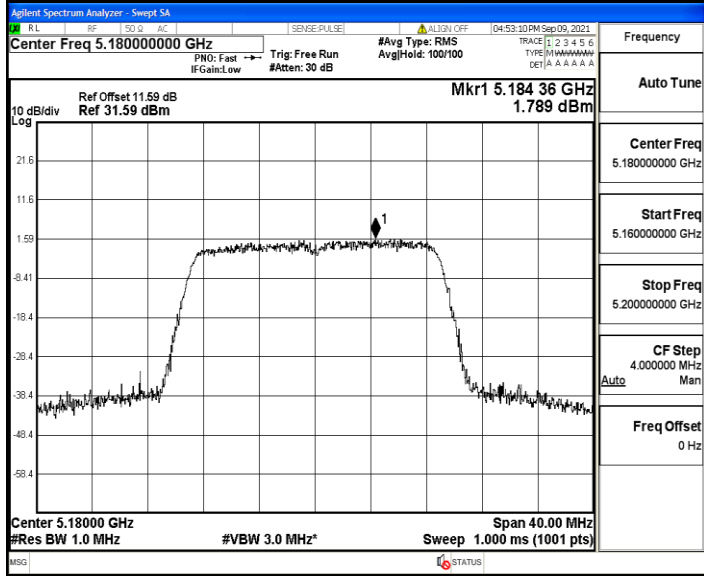
11A\_Ant1\_5240



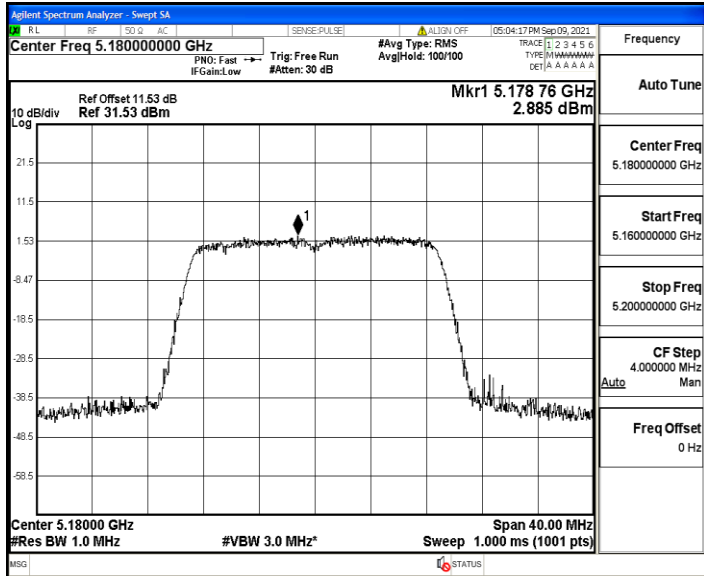
11A\_Ant2\_5240



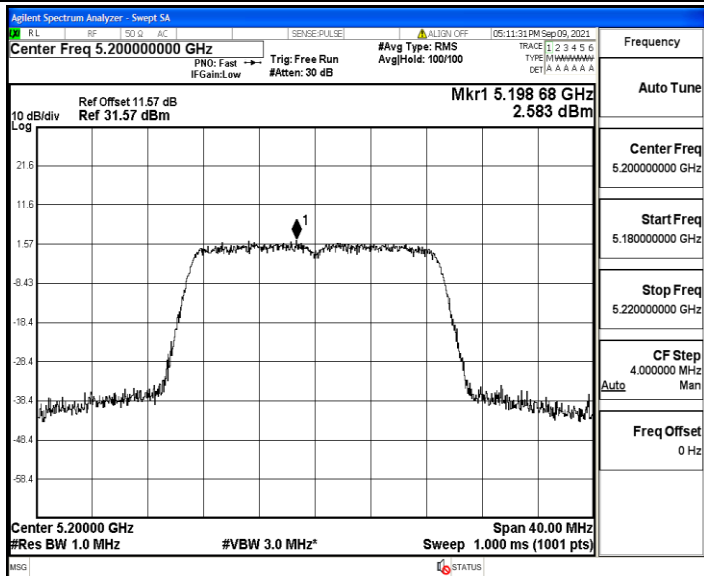
11N20MIMO\_Ant1\_5180



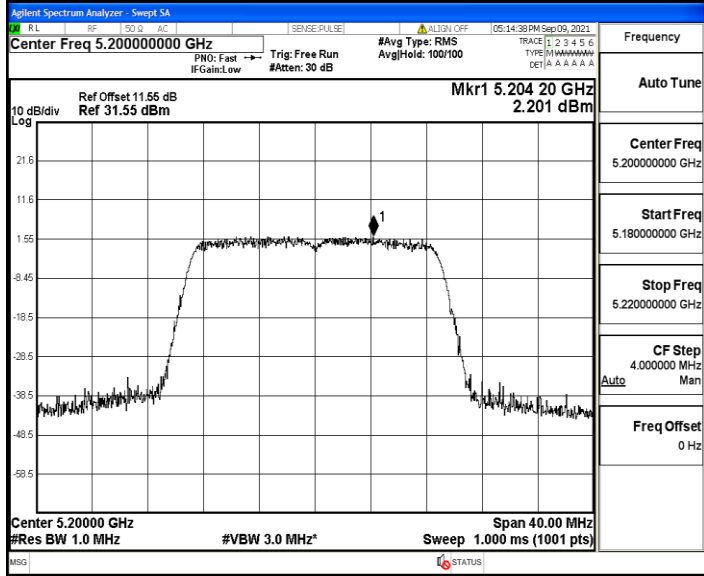
11N20MIMO\_Ant2\_5180



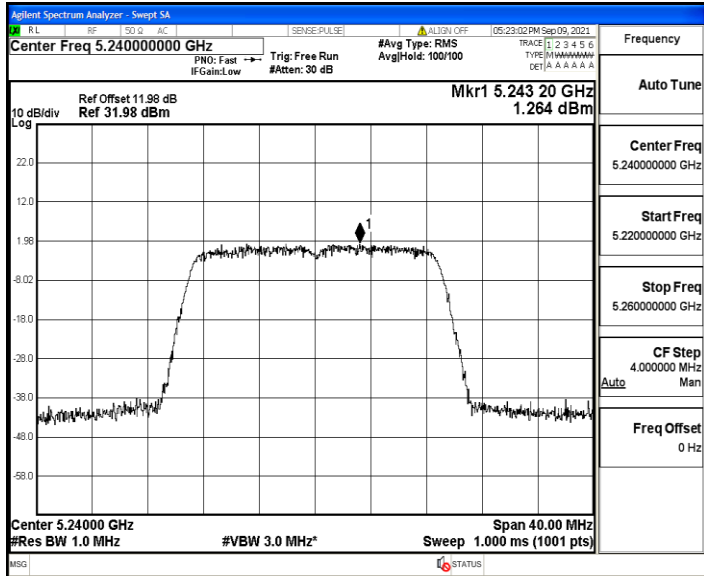
11N20MIMO\_Ant1\_5200



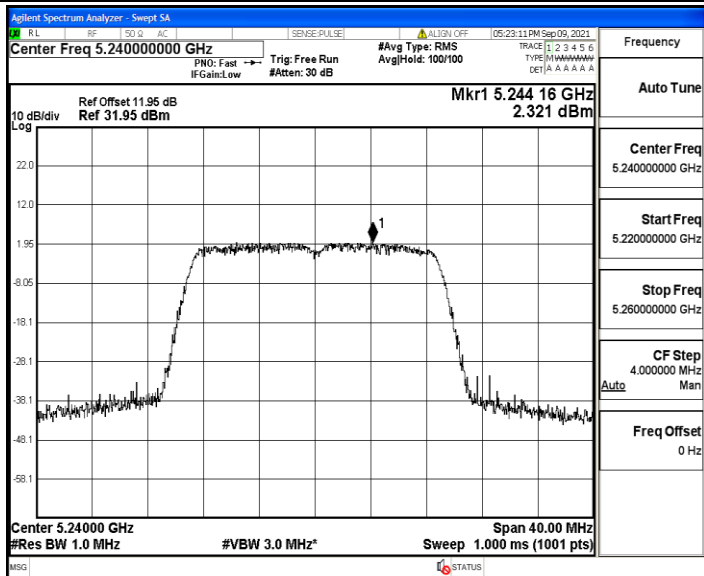
11N20MIMO\_Ant2\_5200



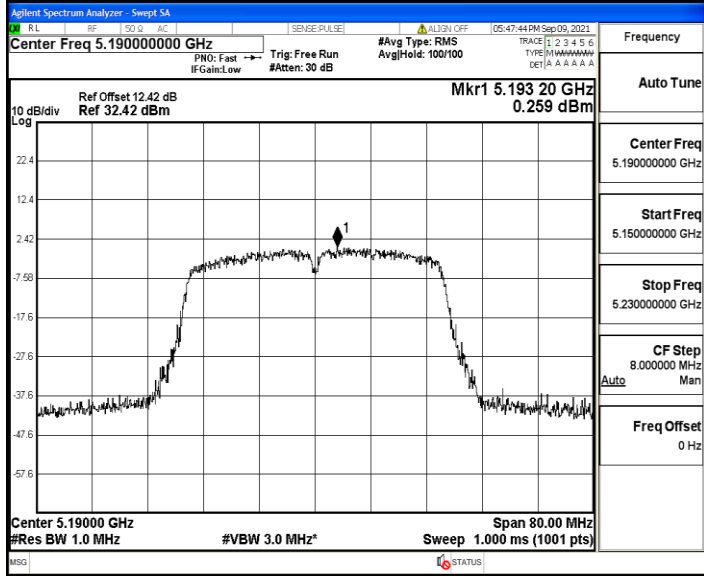
11N20MIMO\_Ant1\_5240



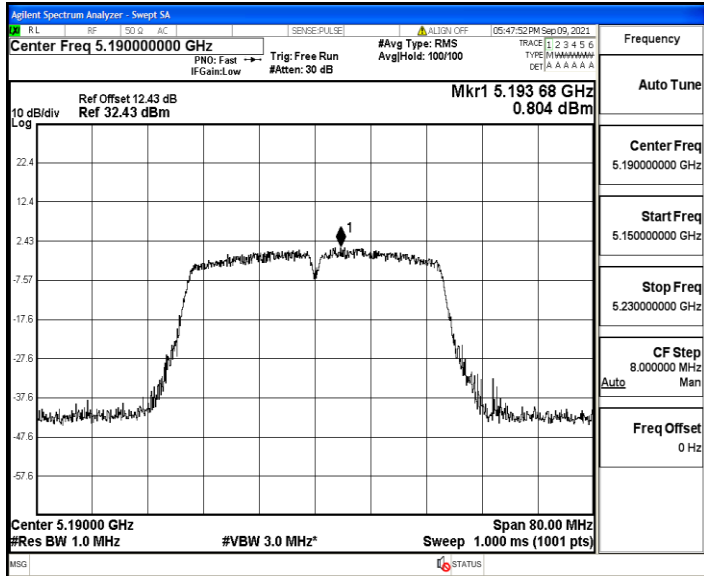
11N20MIMO\_Ant2\_5240



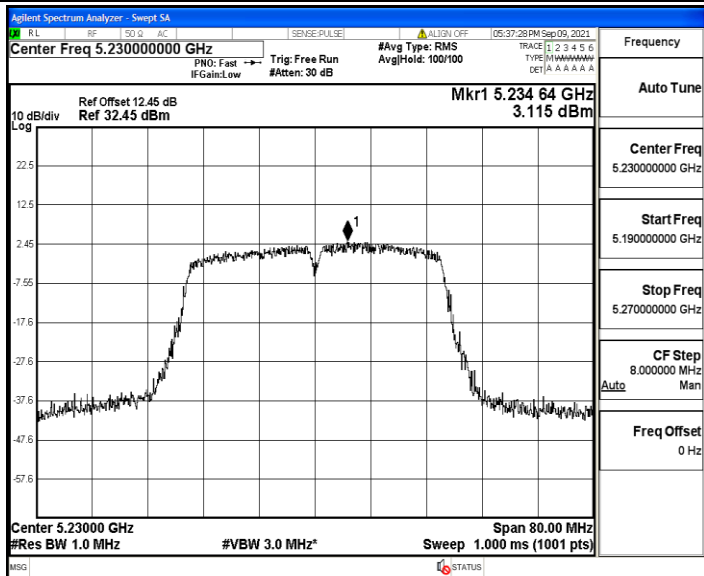
11N40MIMO\_Ant1\_5190



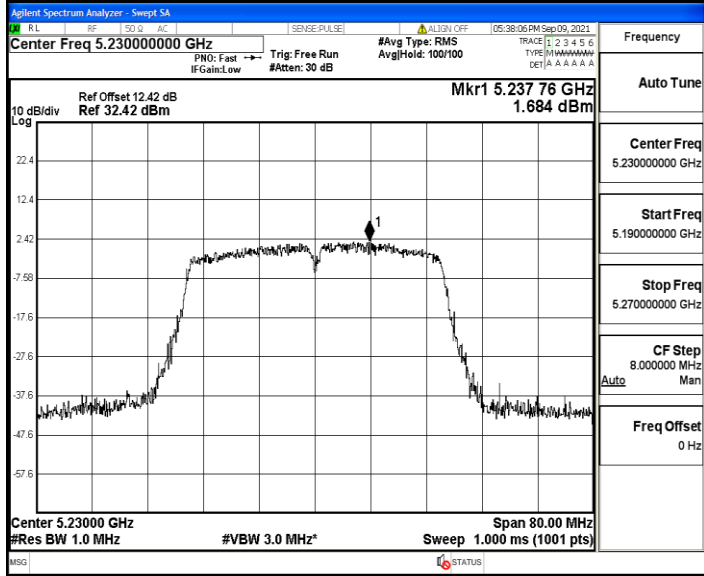
11N40MIMO\_Ant2\_5190



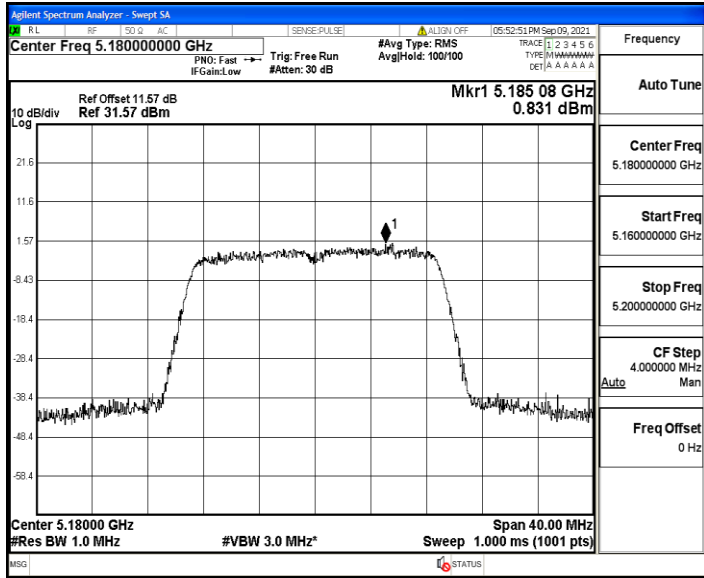
11N40MIMO\_Ant1\_5230



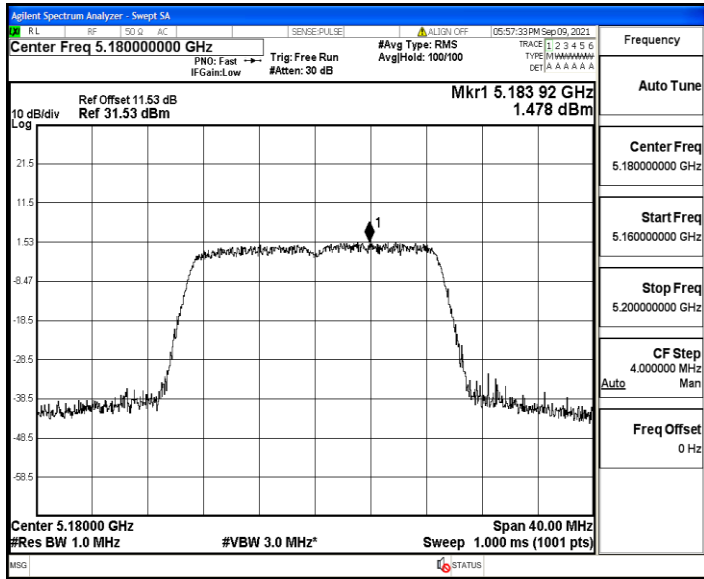
11N40MIMO\_Ant2\_5230



11AC20MIMO\_Ant1\_5180

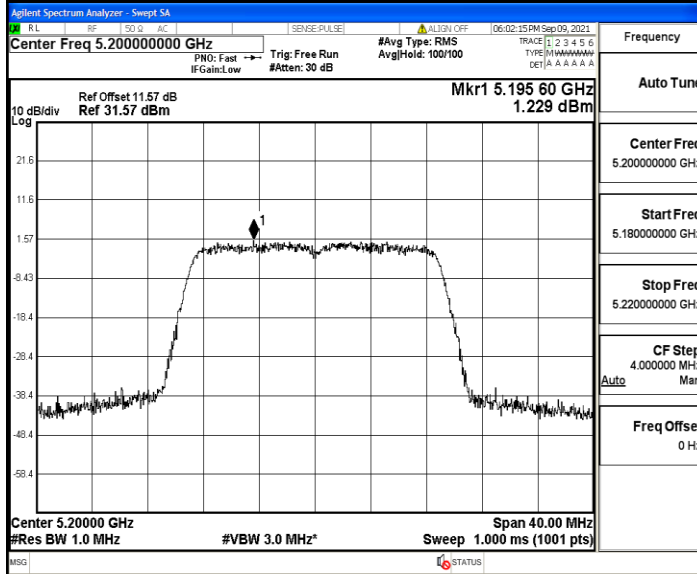


11AC20MIMO\_Ant2\_5180

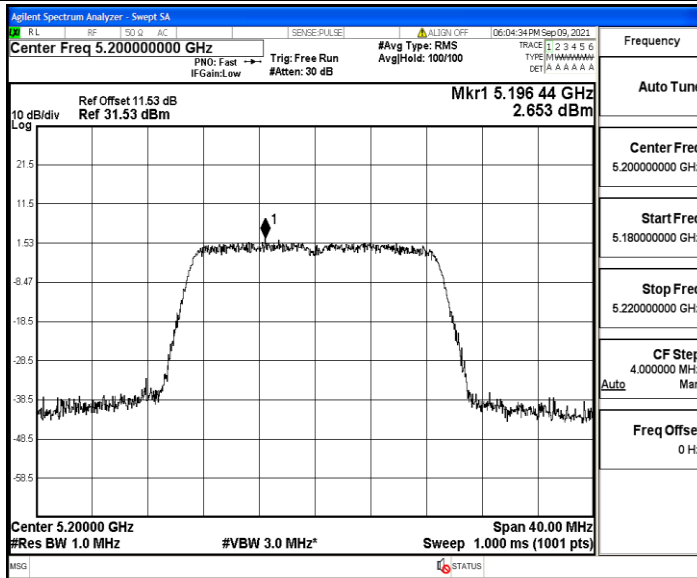


11AC20MIMO\_Ant1\_5200

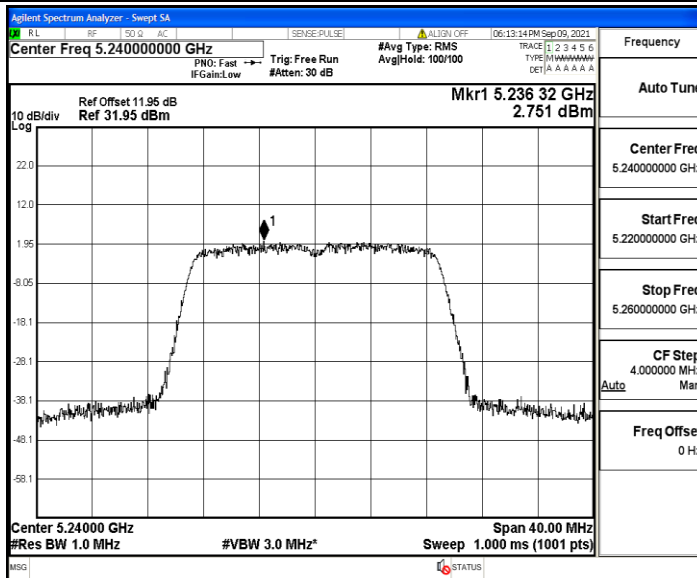




11AC20MIMO\_Ant2\_5200



11AC20MIMO\_Ant1\_5240



11AC20MIMO\_Ant2\_5240