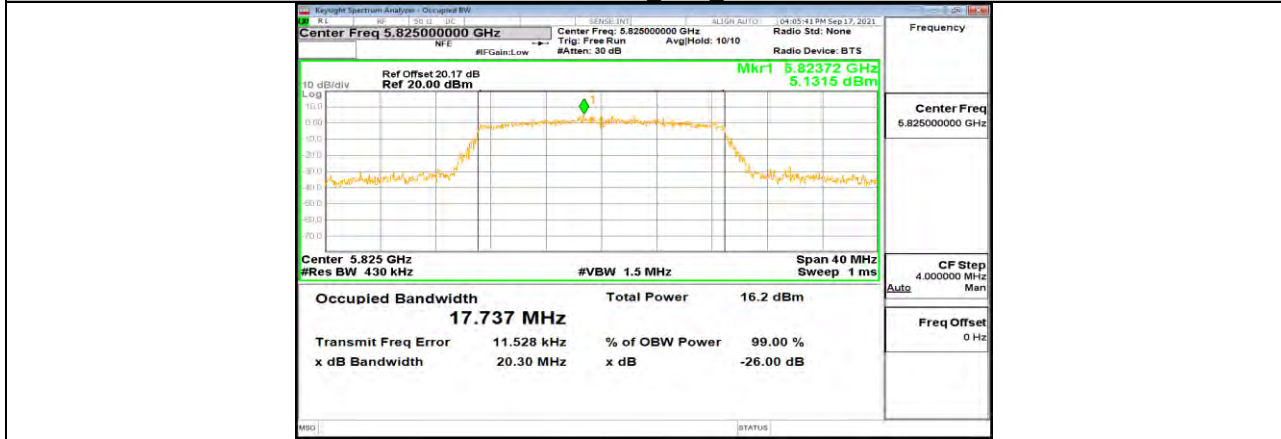
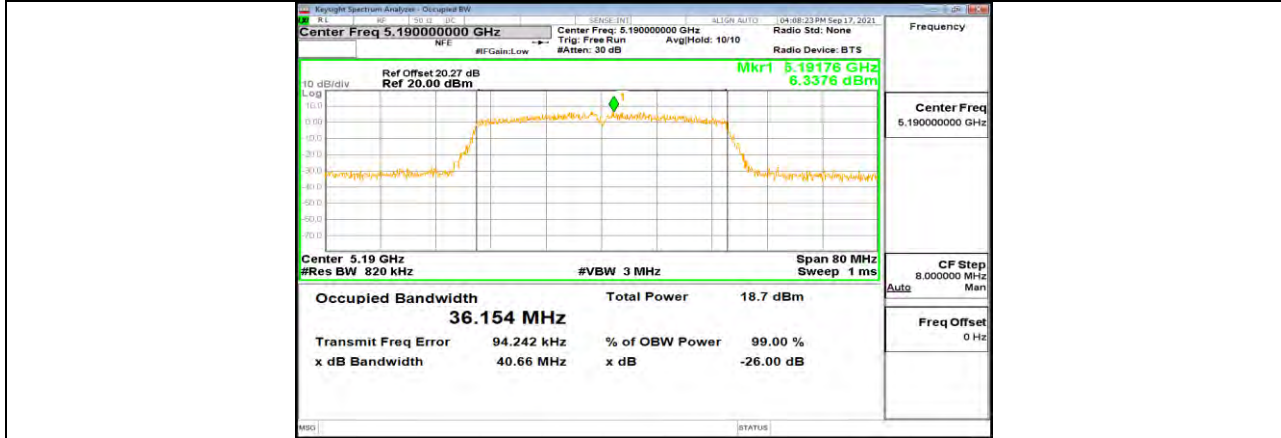


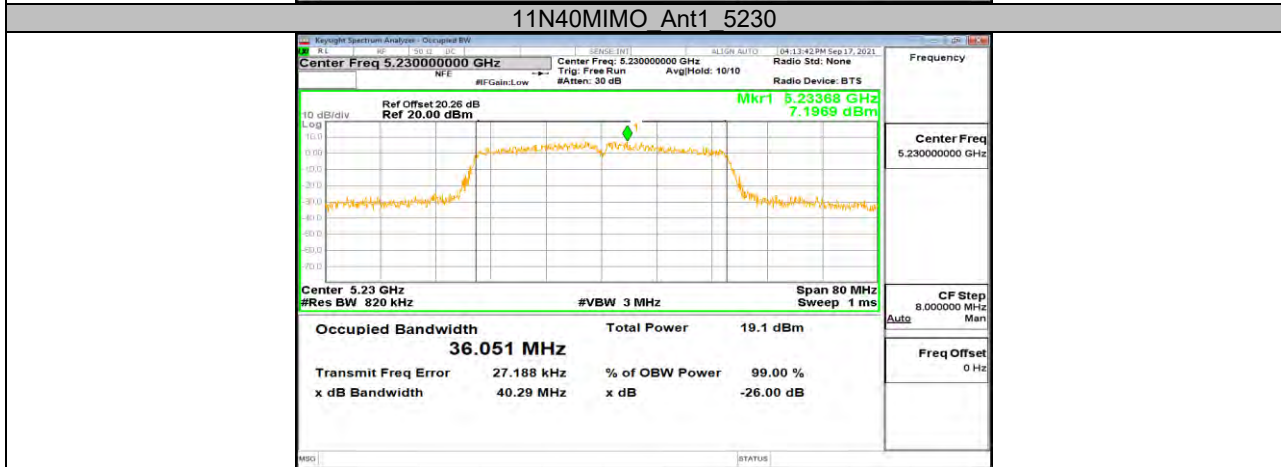
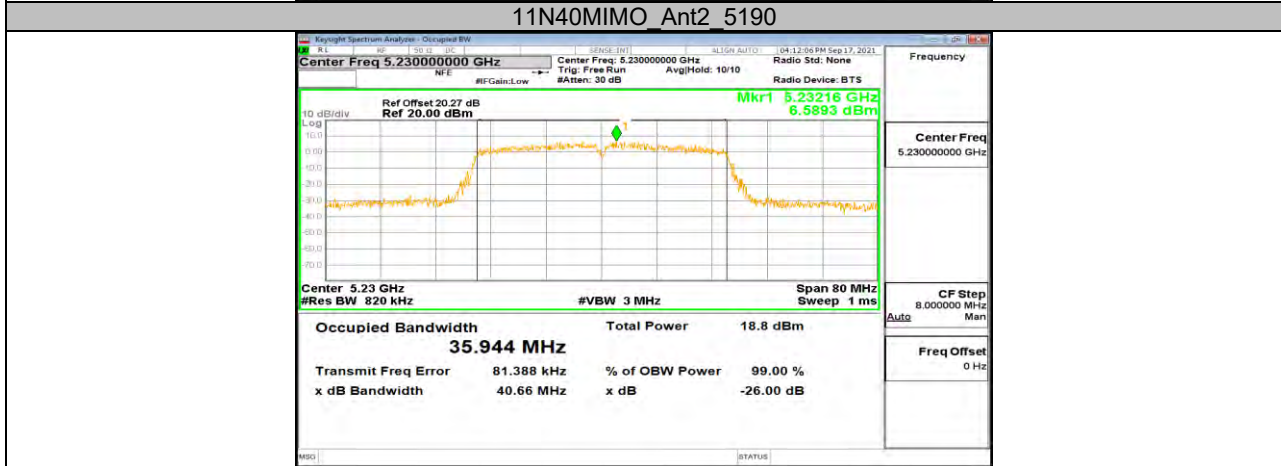
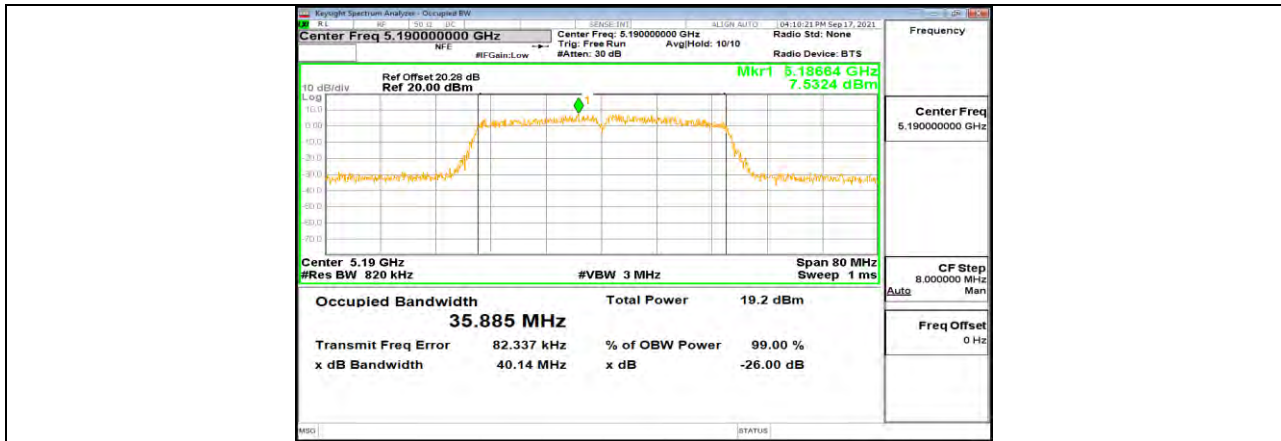
11N20MIMO Ant1 5825

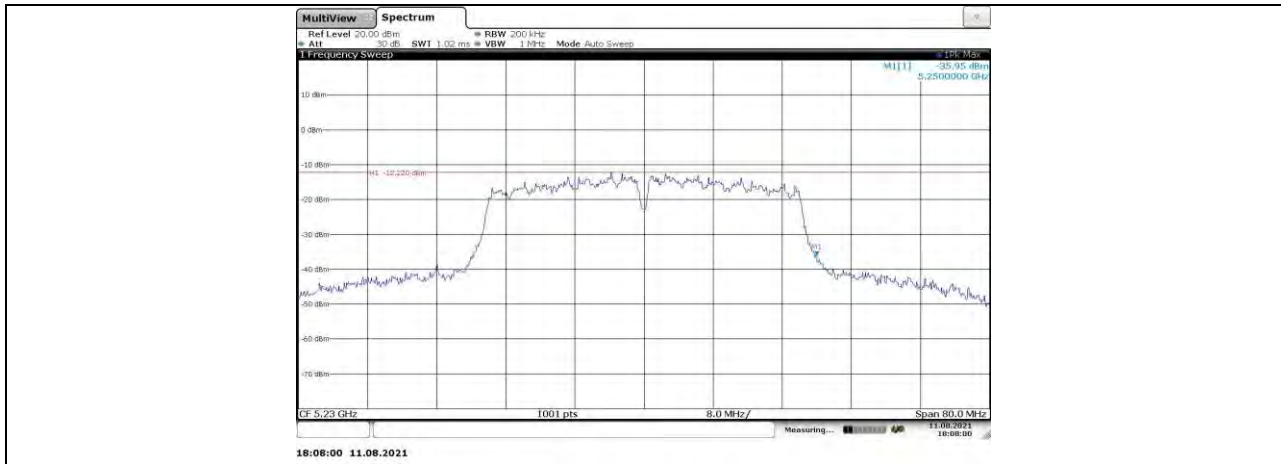


11N20MIMO Ant2 5825

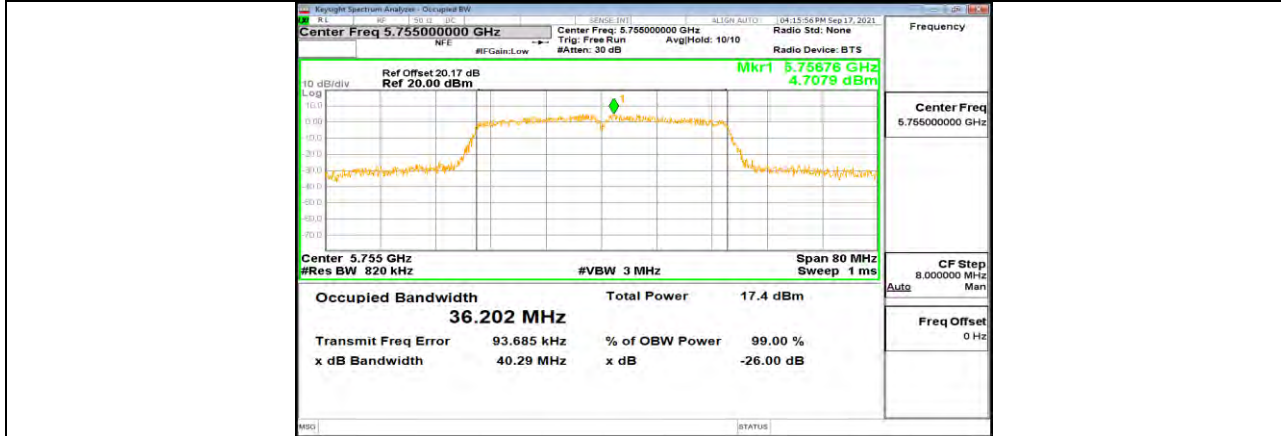


11N40MIMO Ant1 5190

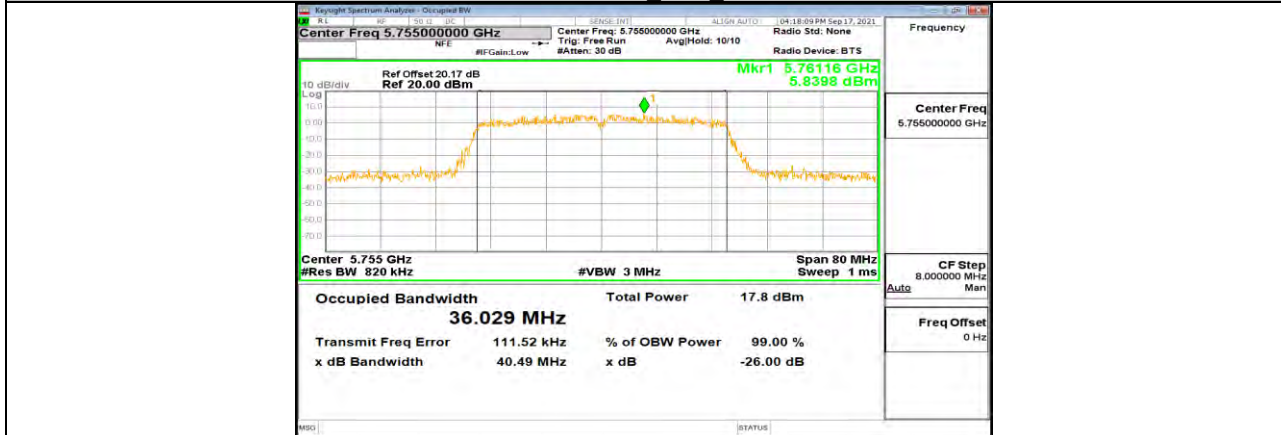




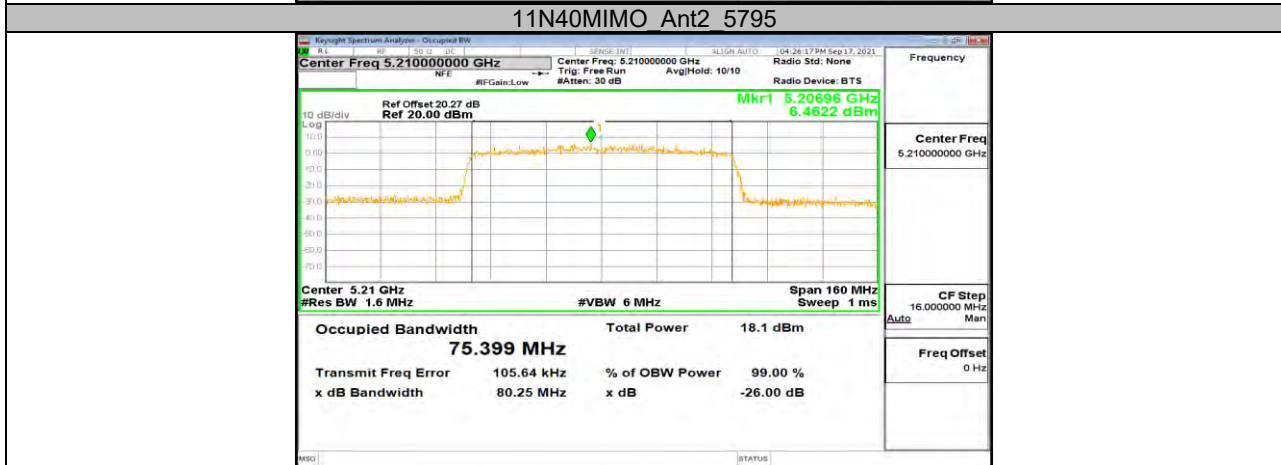
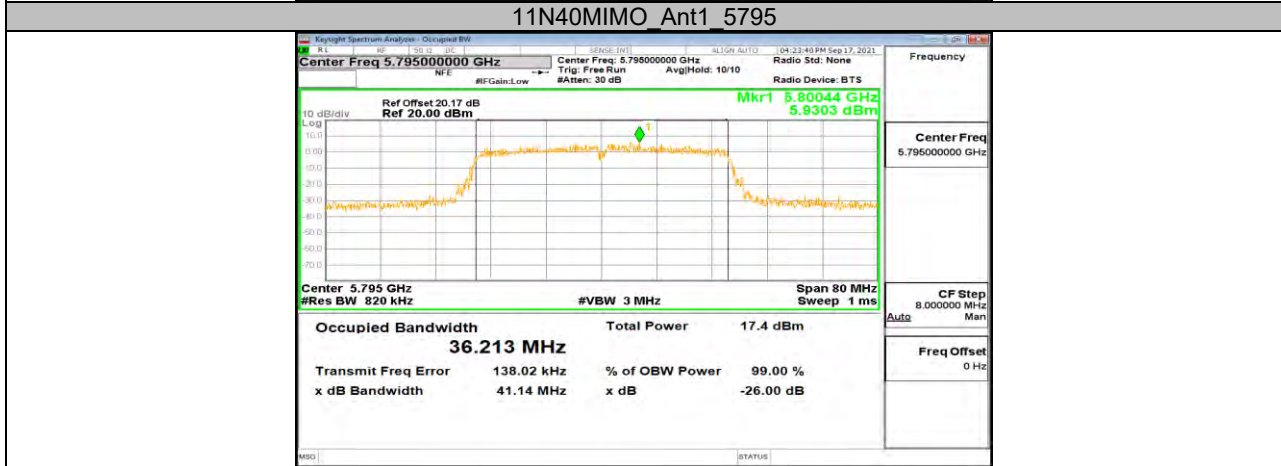
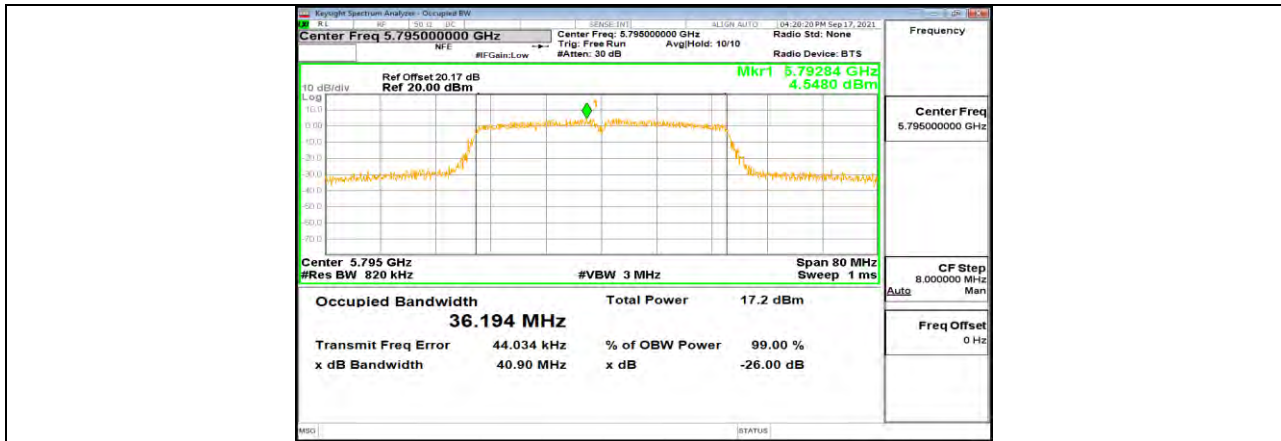
11N40MIMO Ant2 5230

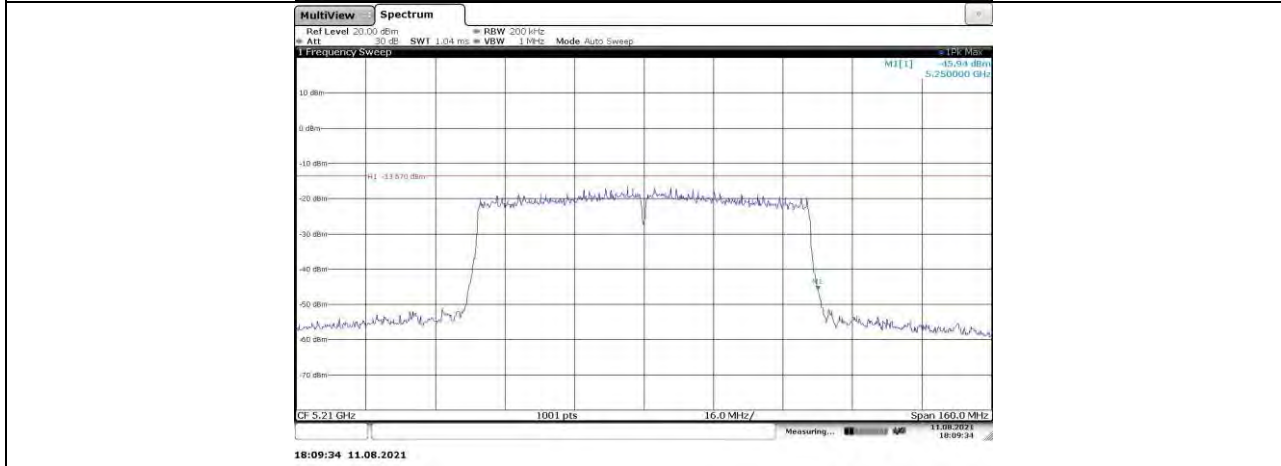
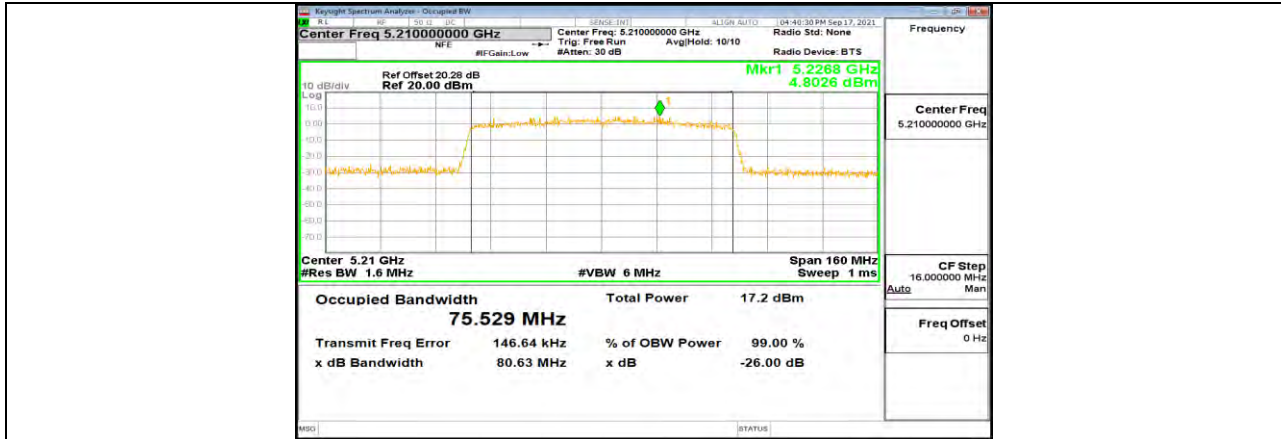


11N40MIMO Ant1 5755

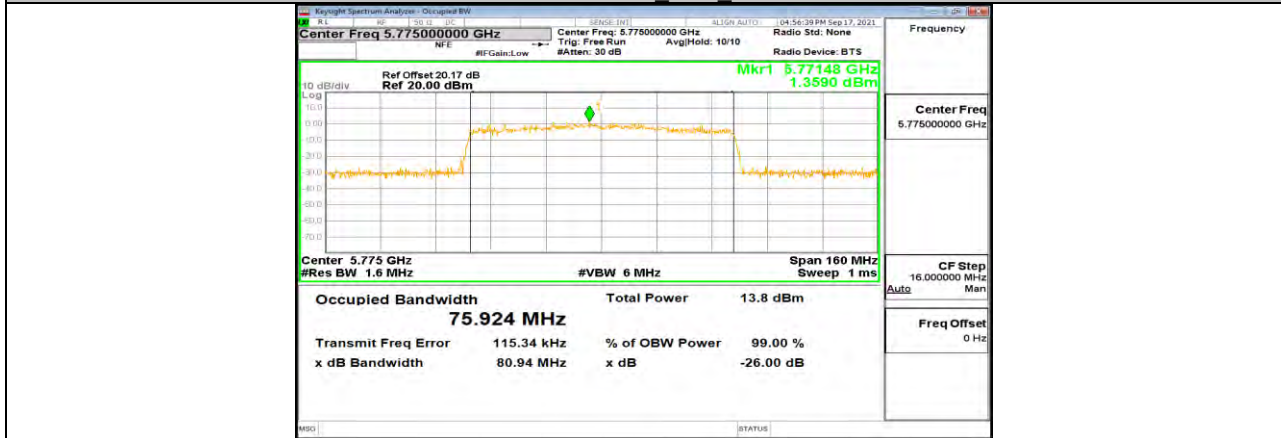


11N40MIMO Ant2 5755

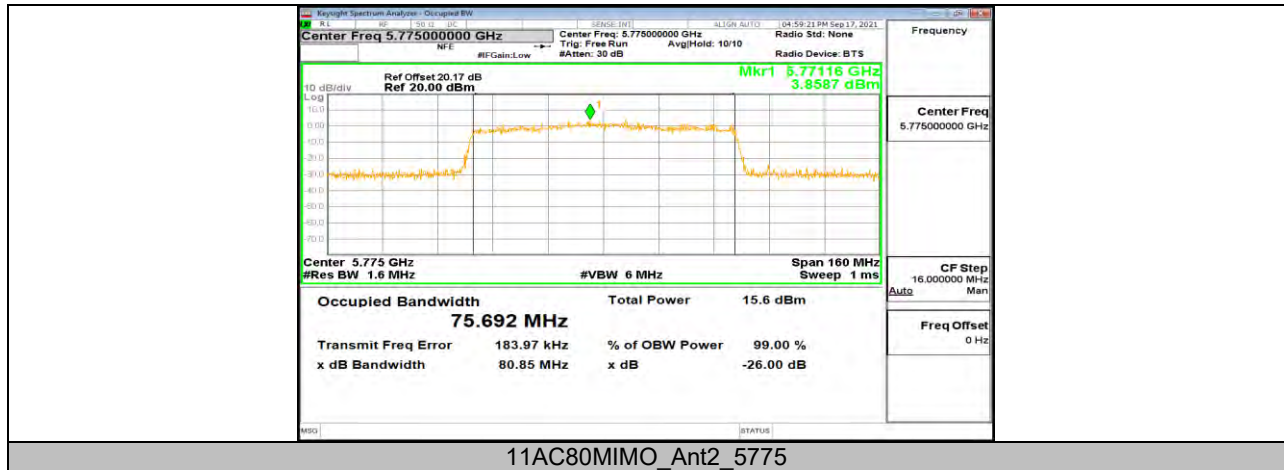


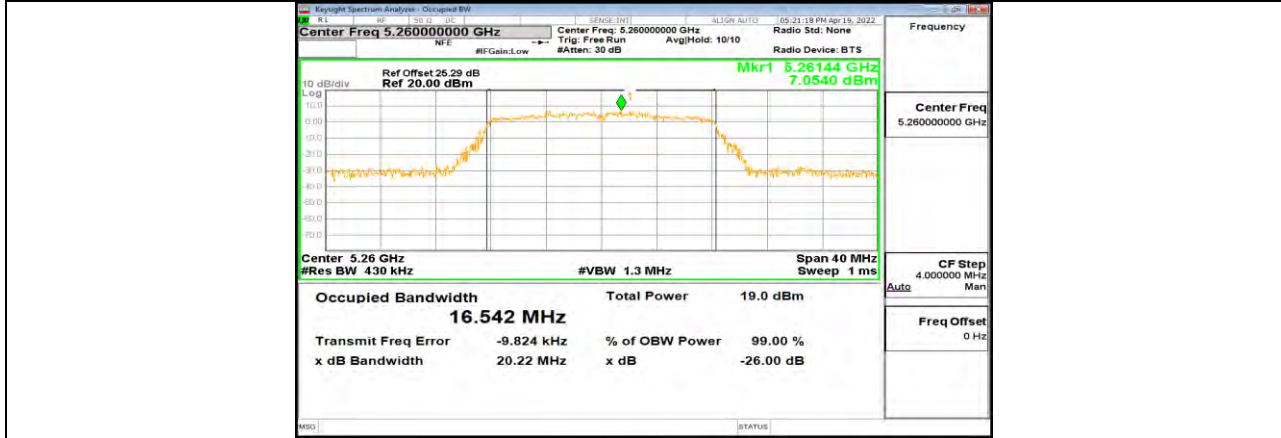


11AC80MIMO Ant2_5210

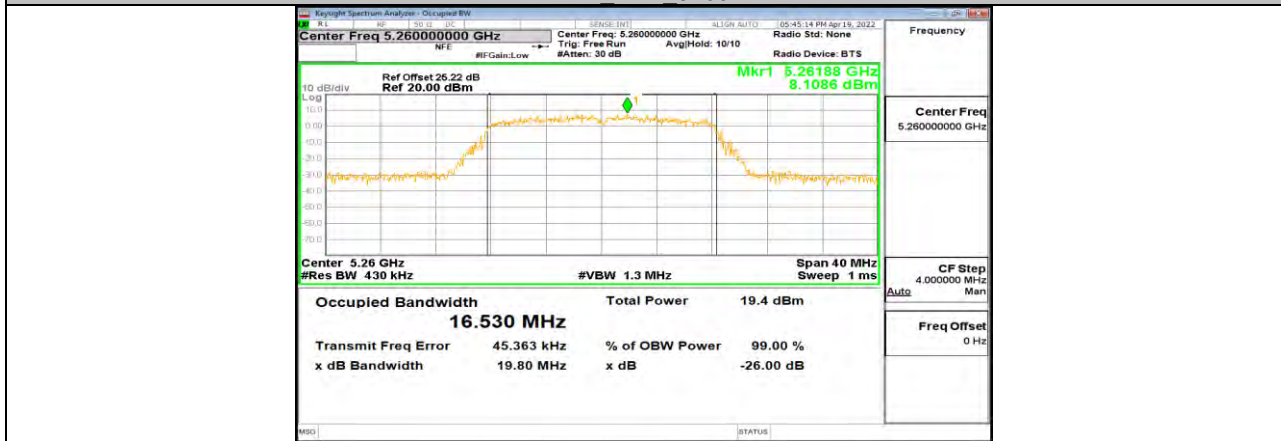


11AC80MIMO Ant1_5775

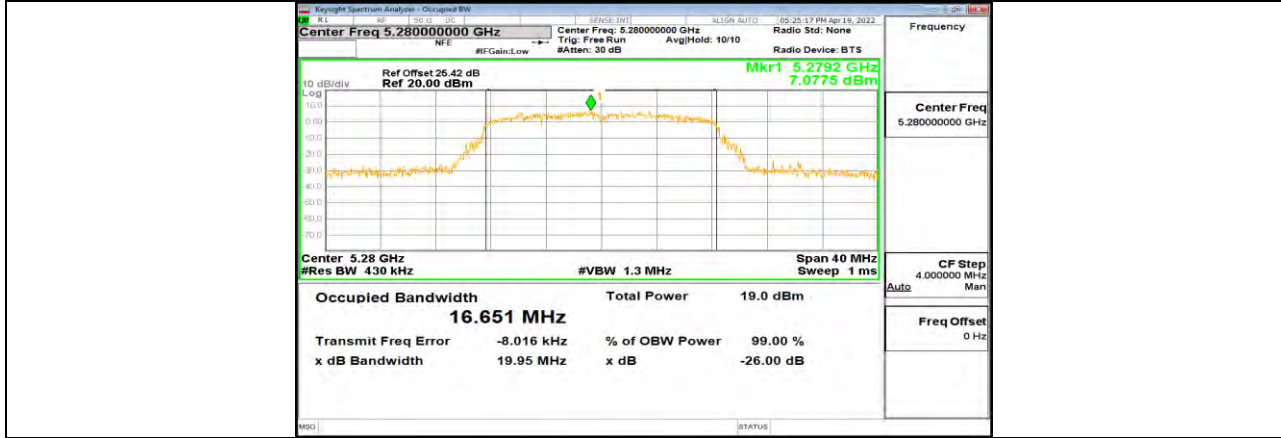




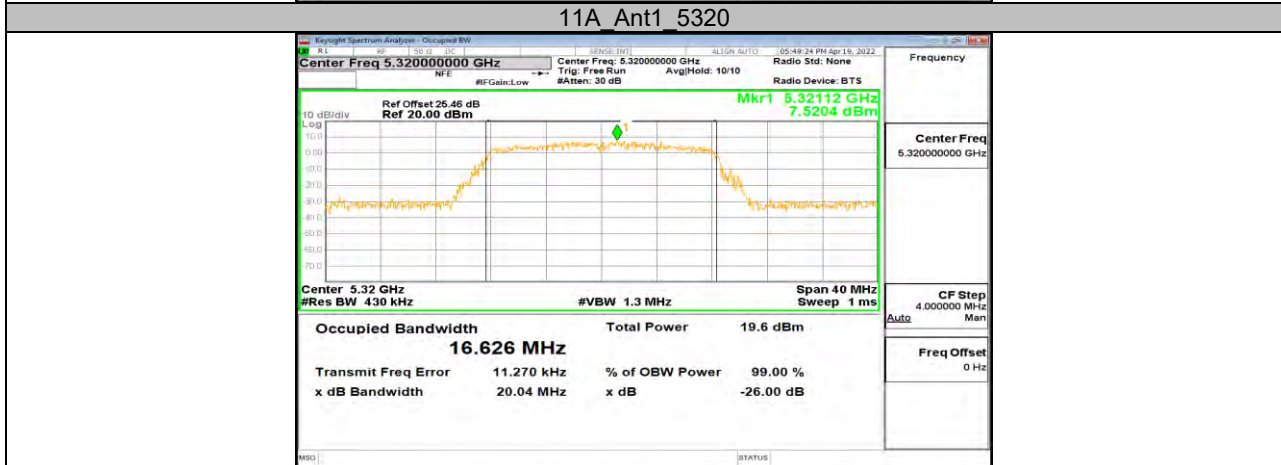
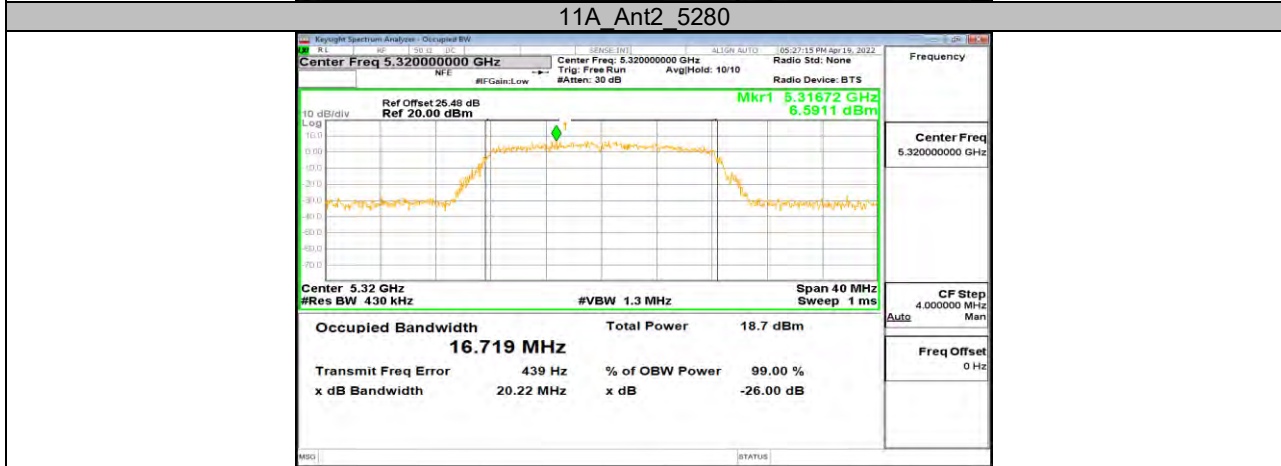
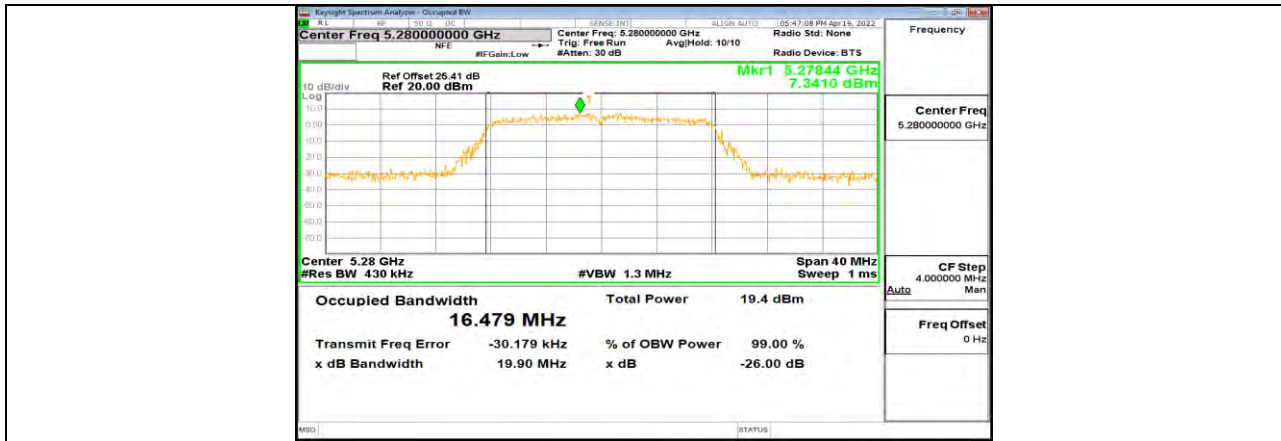
11A Ant1 5260

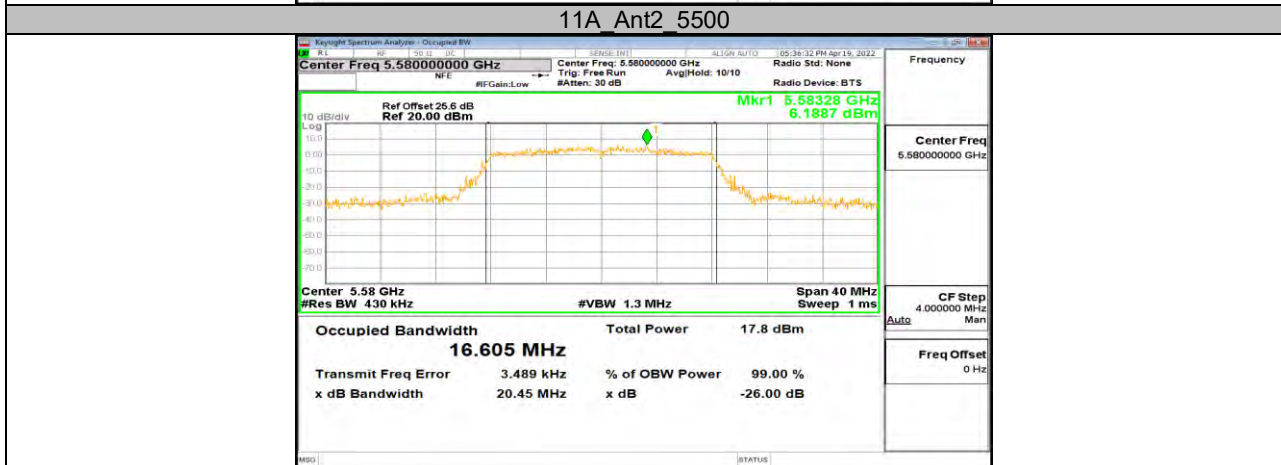
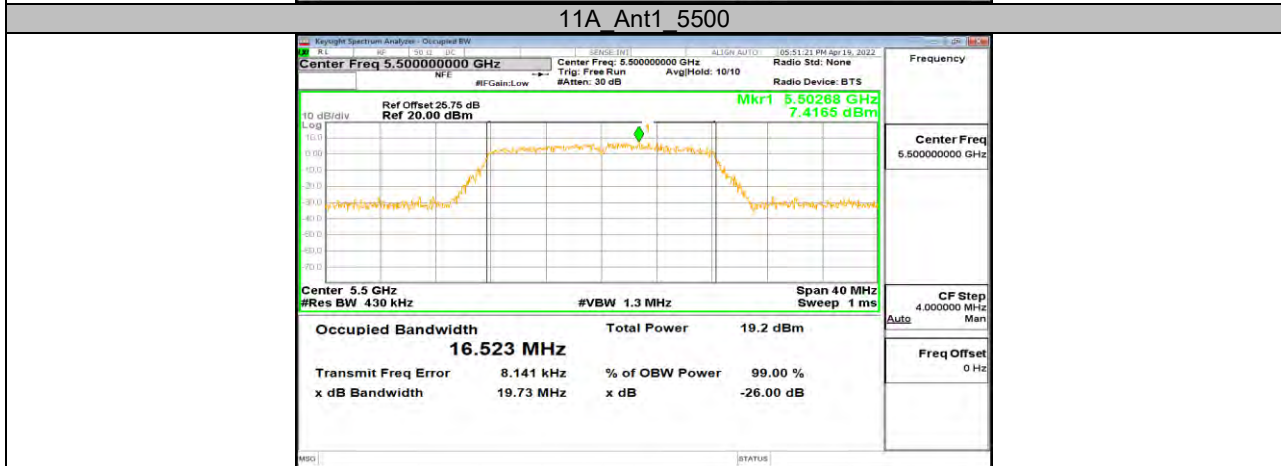
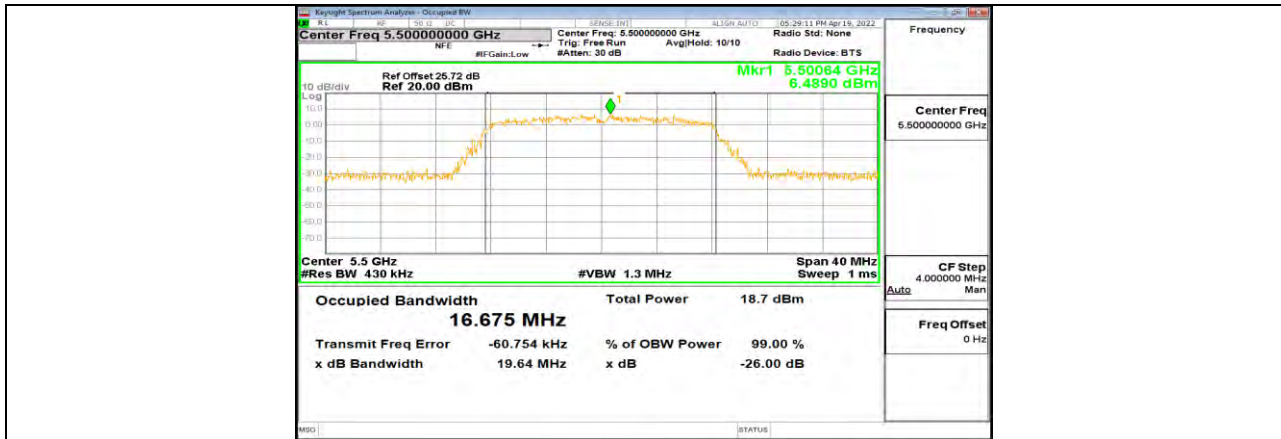


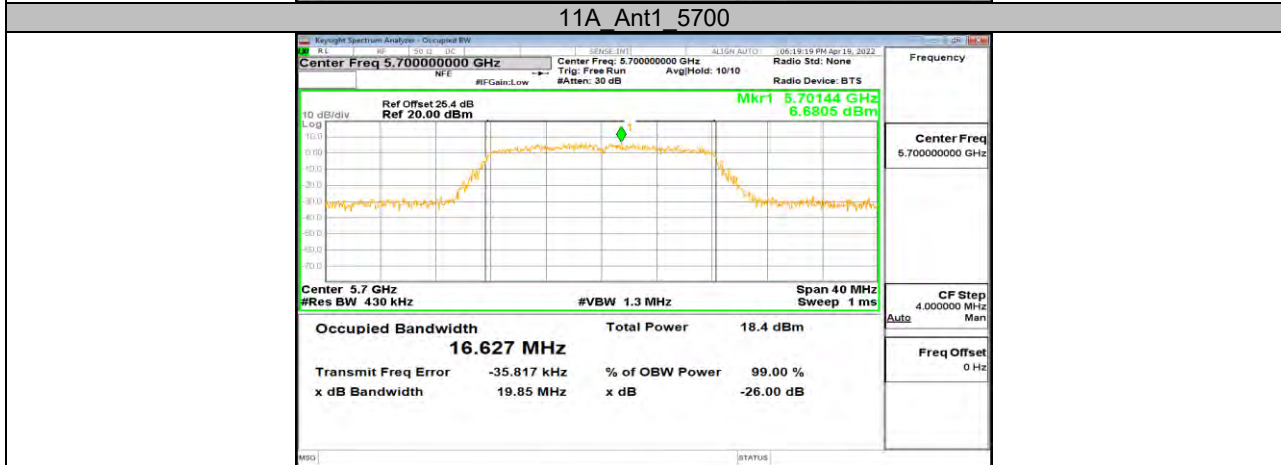
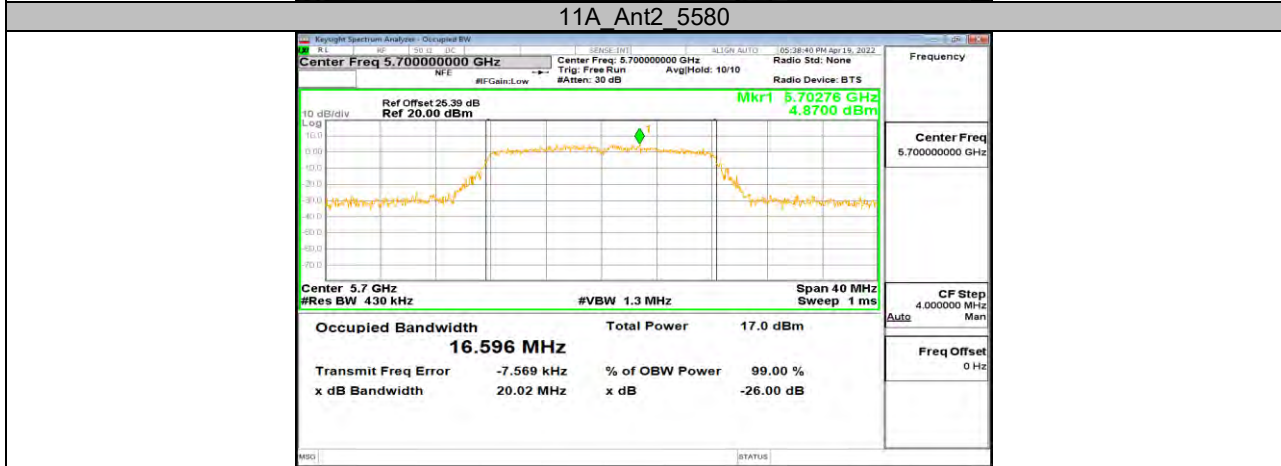
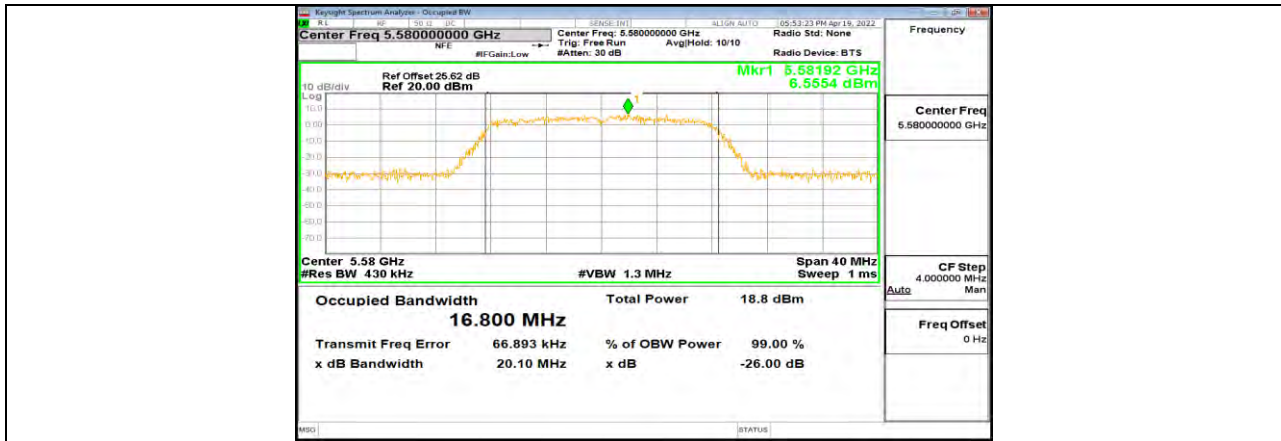
11A Ant2 5260

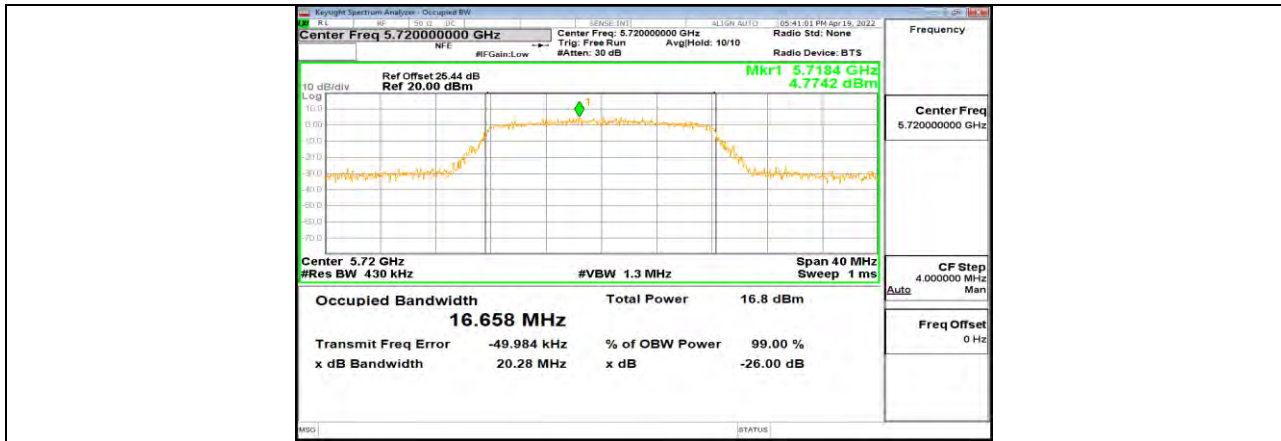


11A Ant1 5280

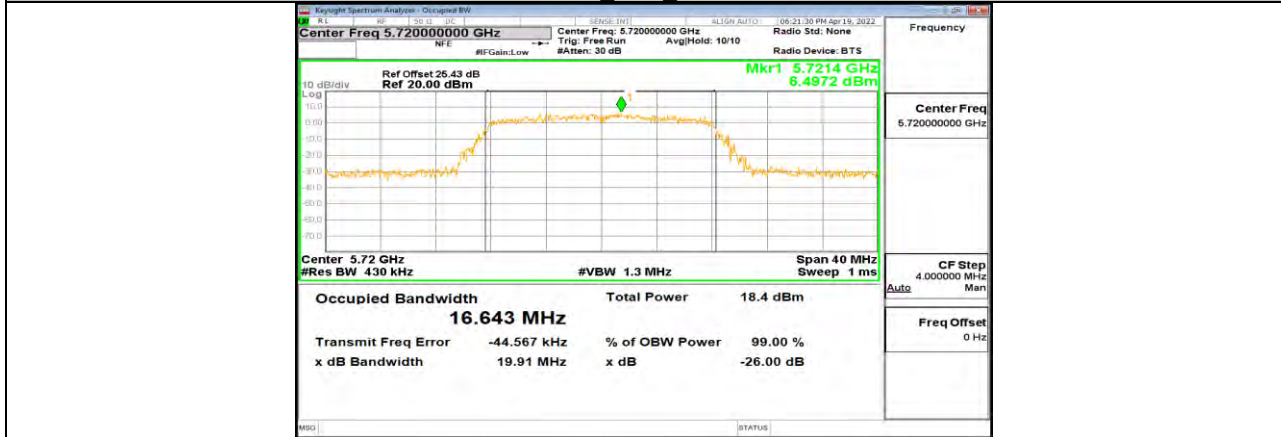




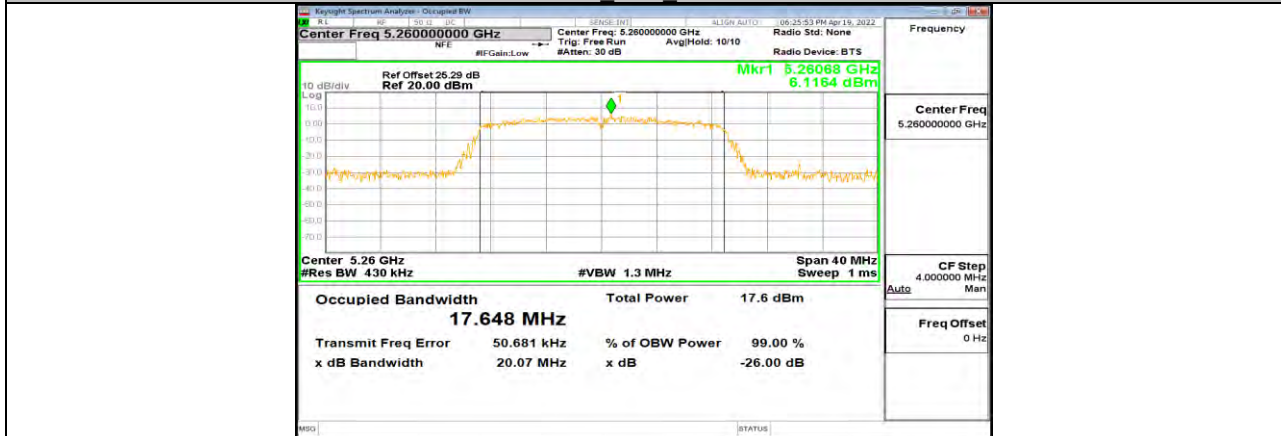




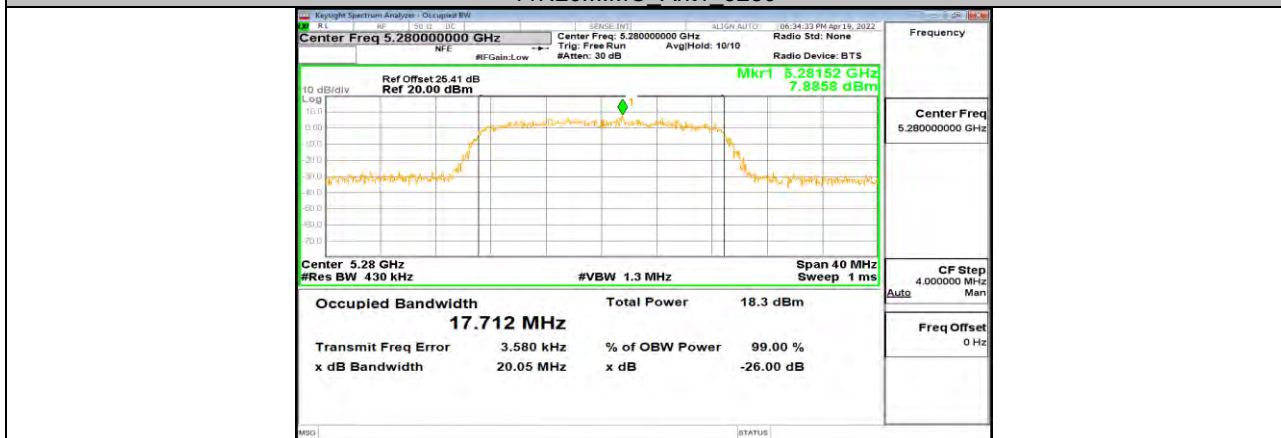
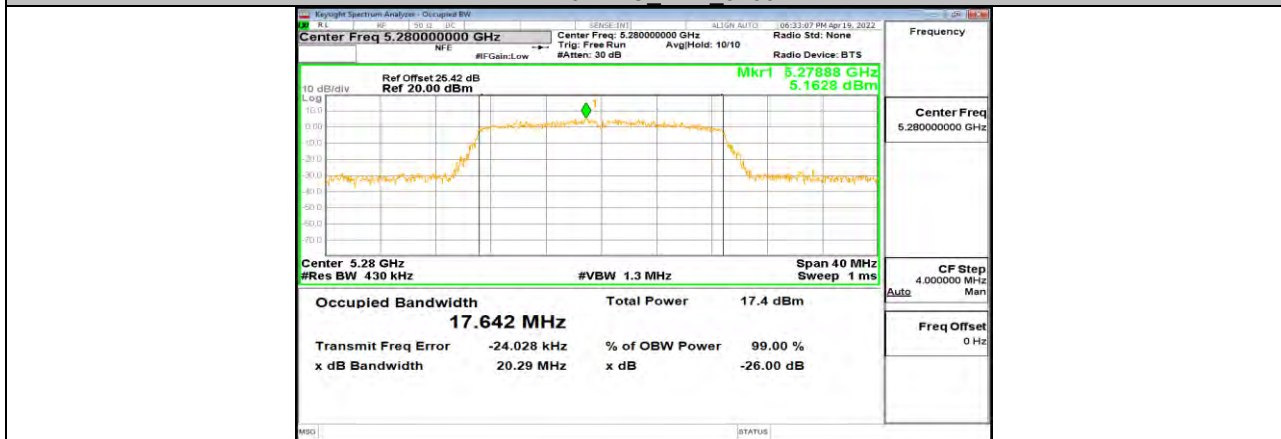
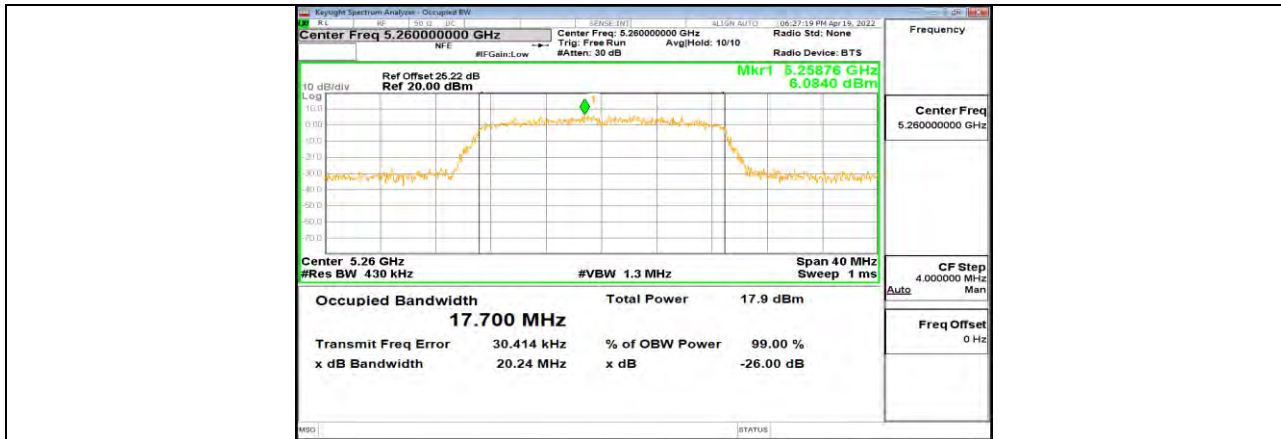
11A Ant1 5720

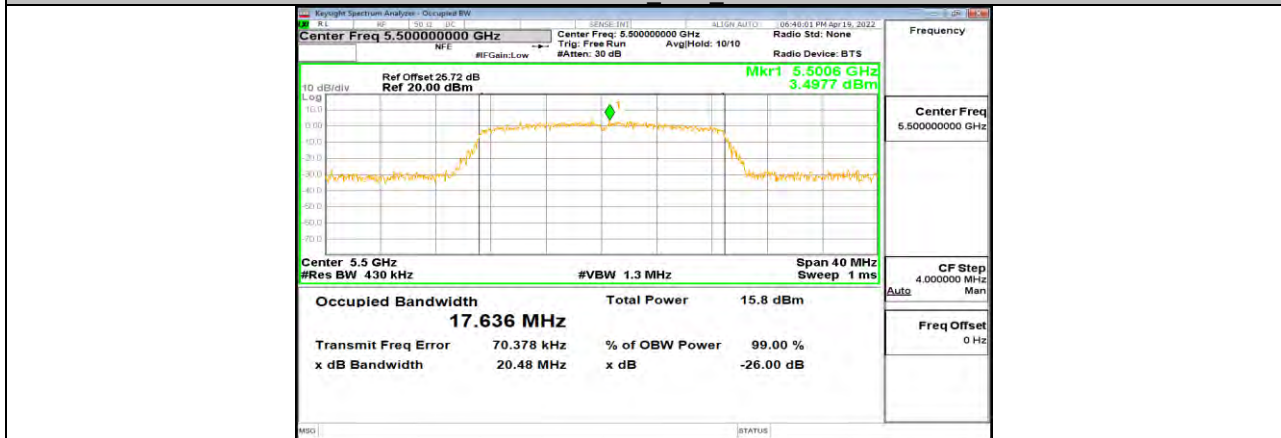
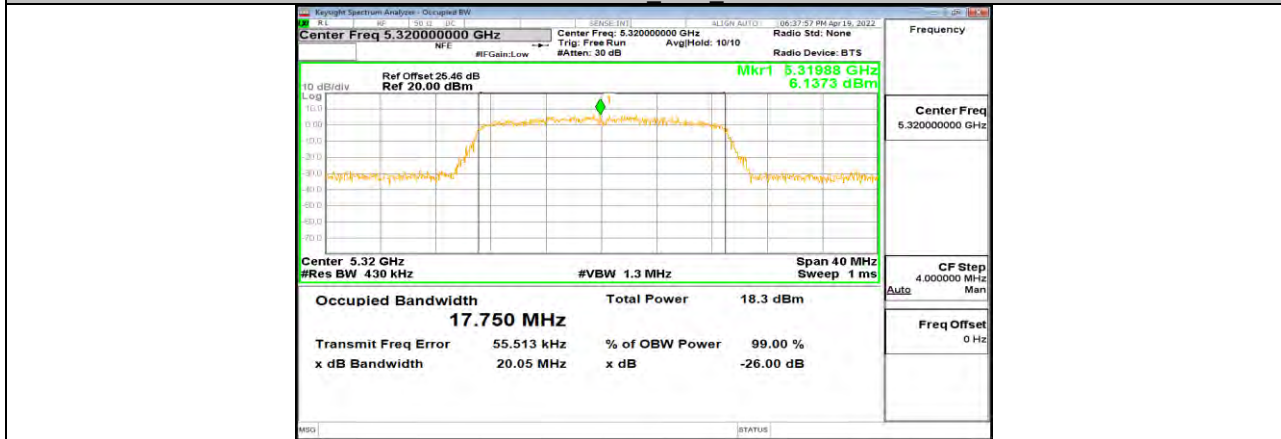
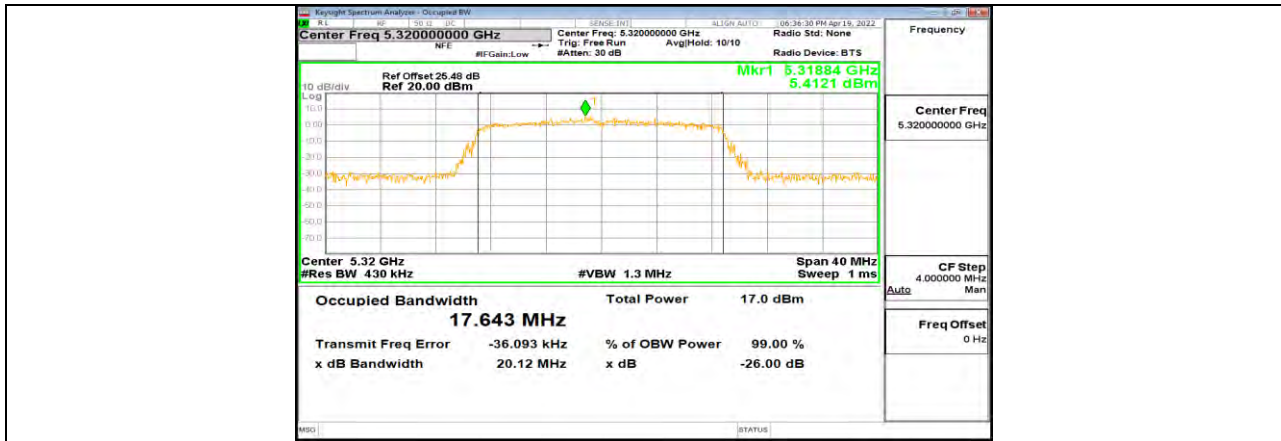


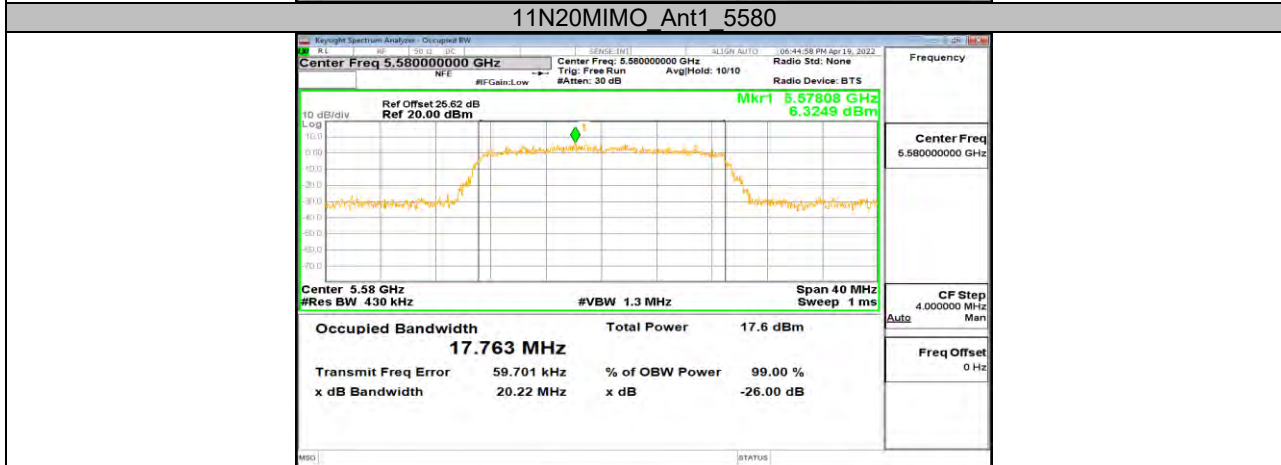
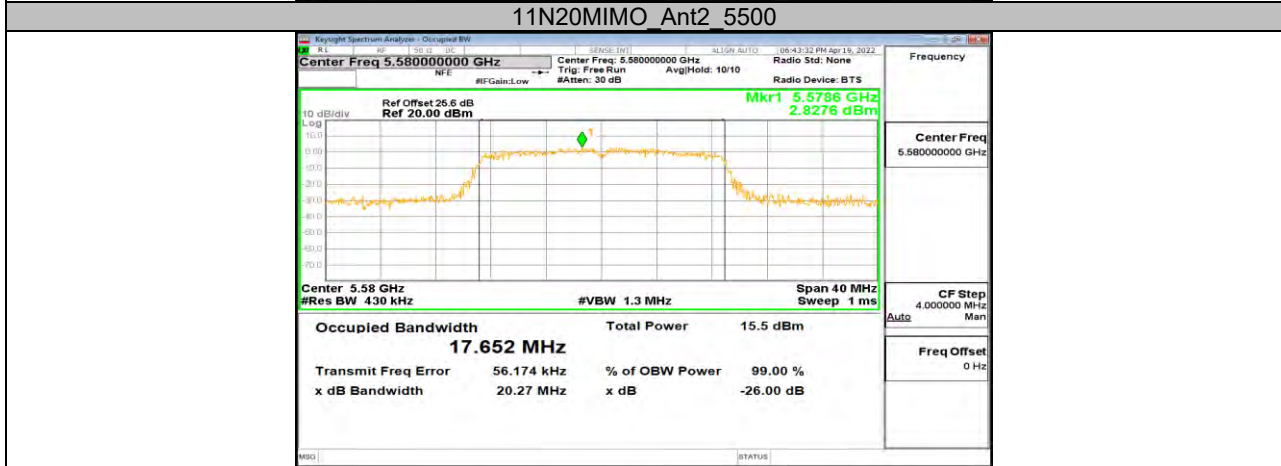
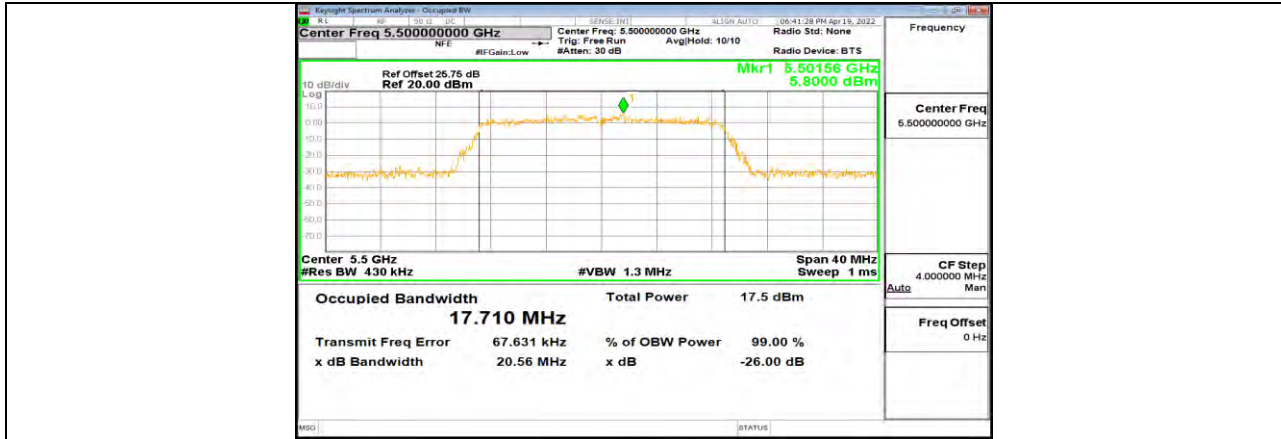
11A Ant2 5720

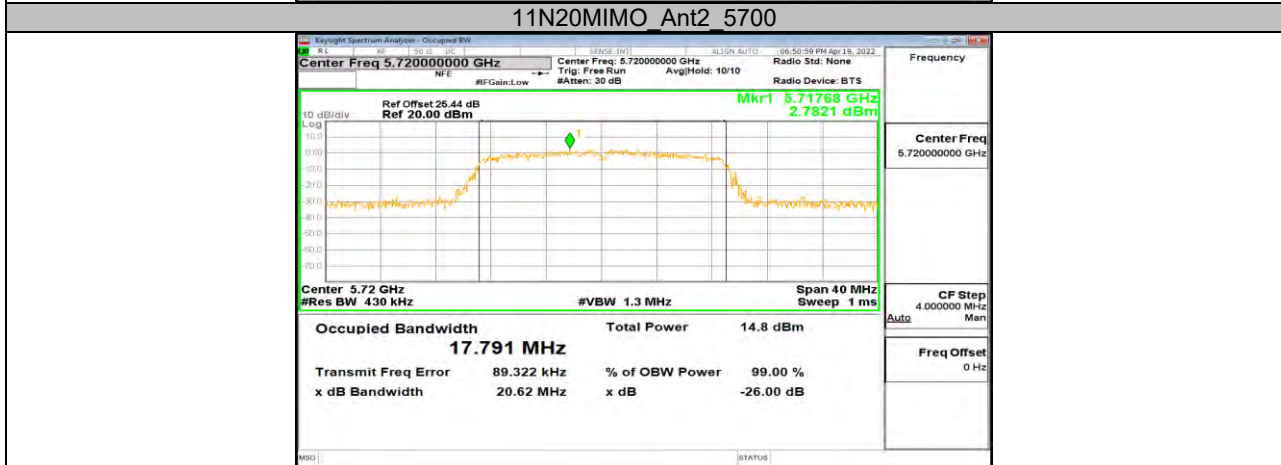
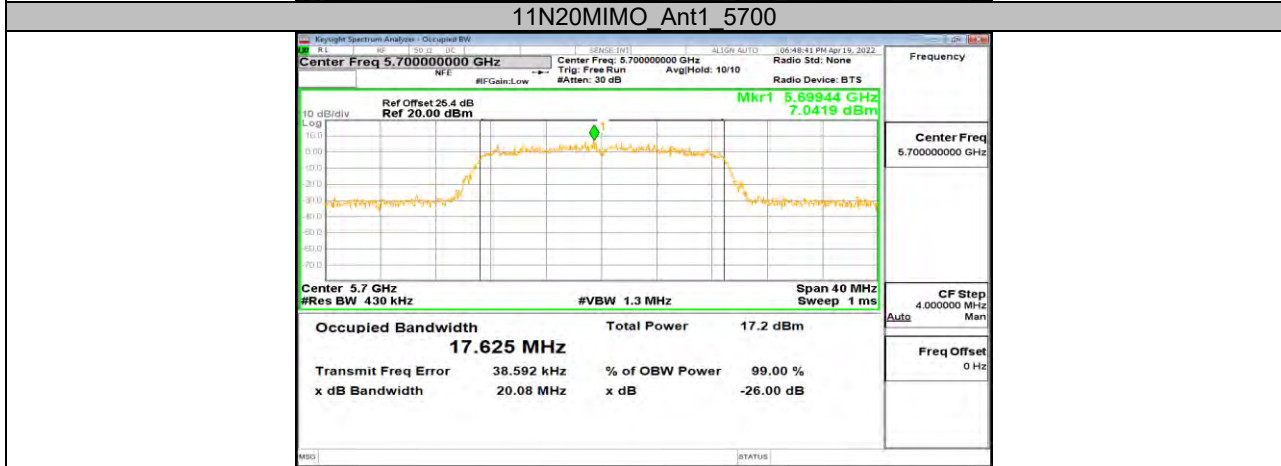
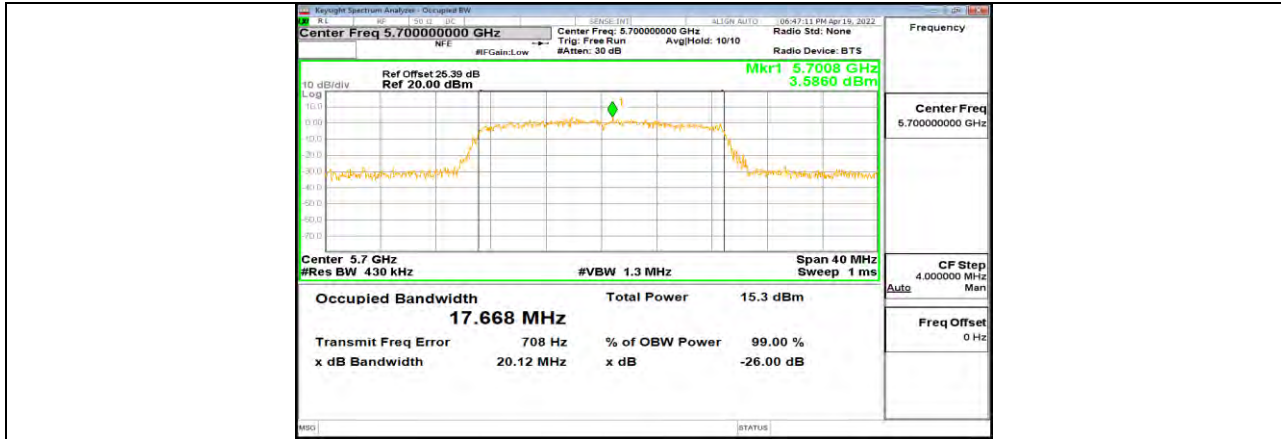


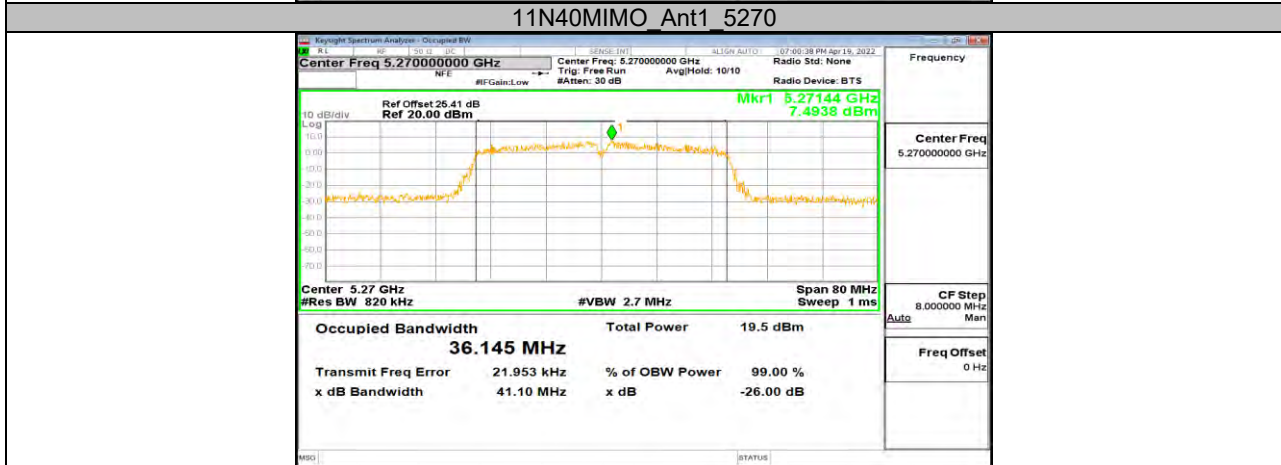
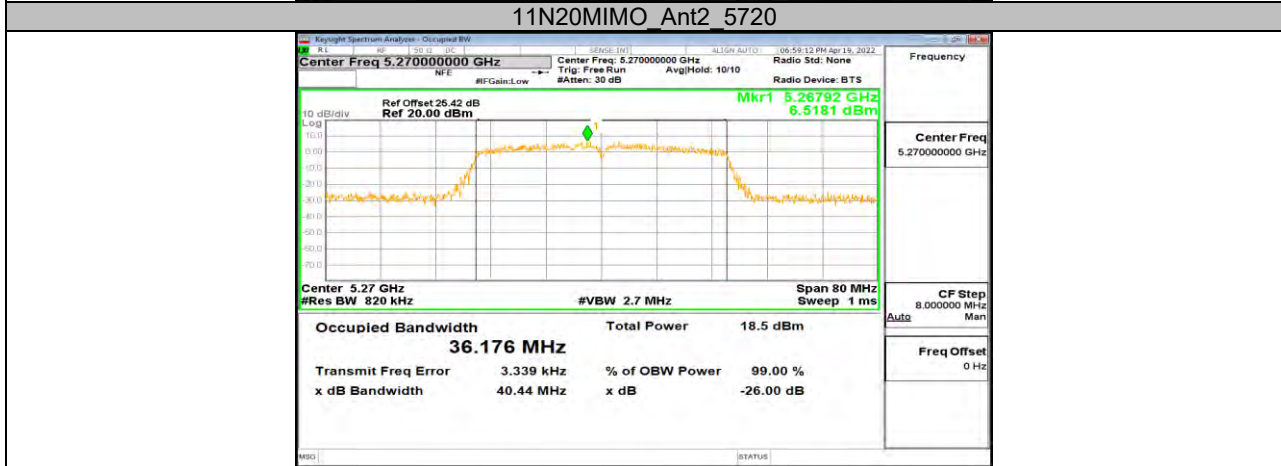
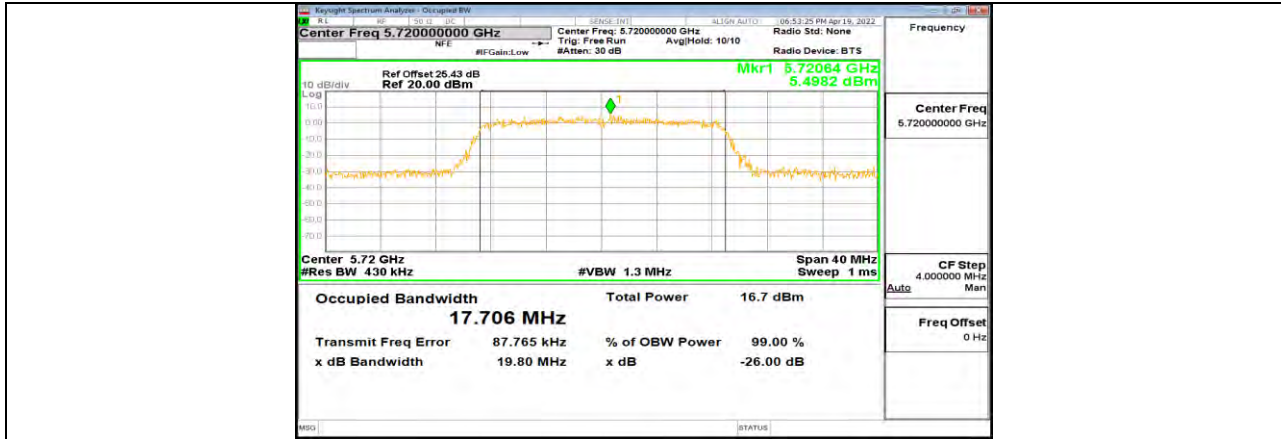
11N20MIMO Ant1 5260

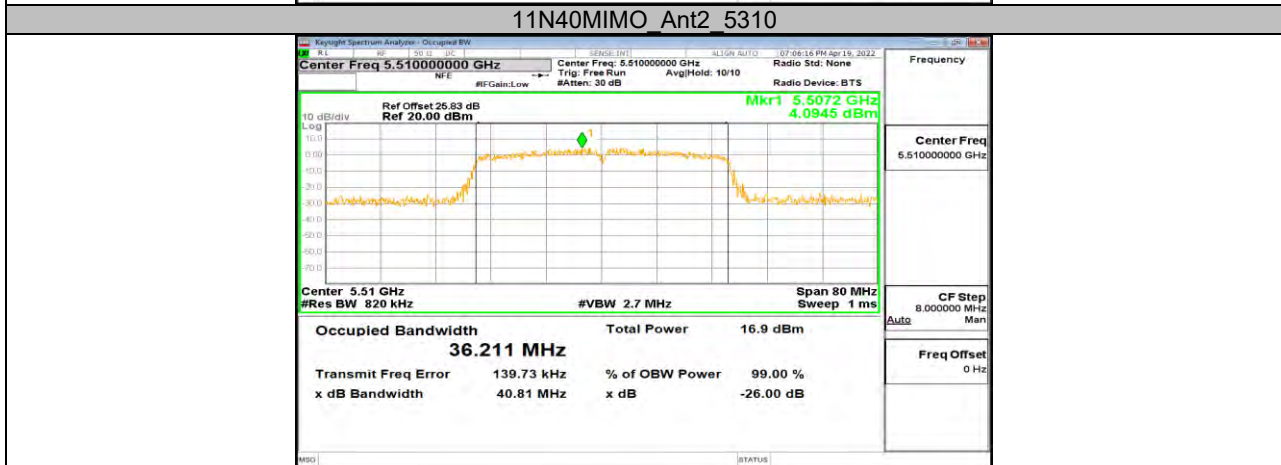
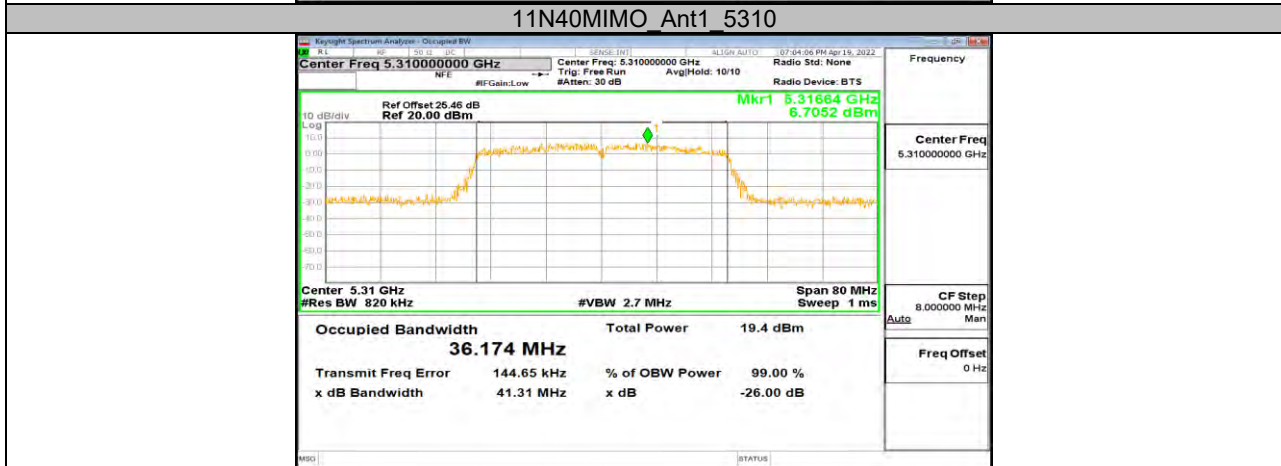
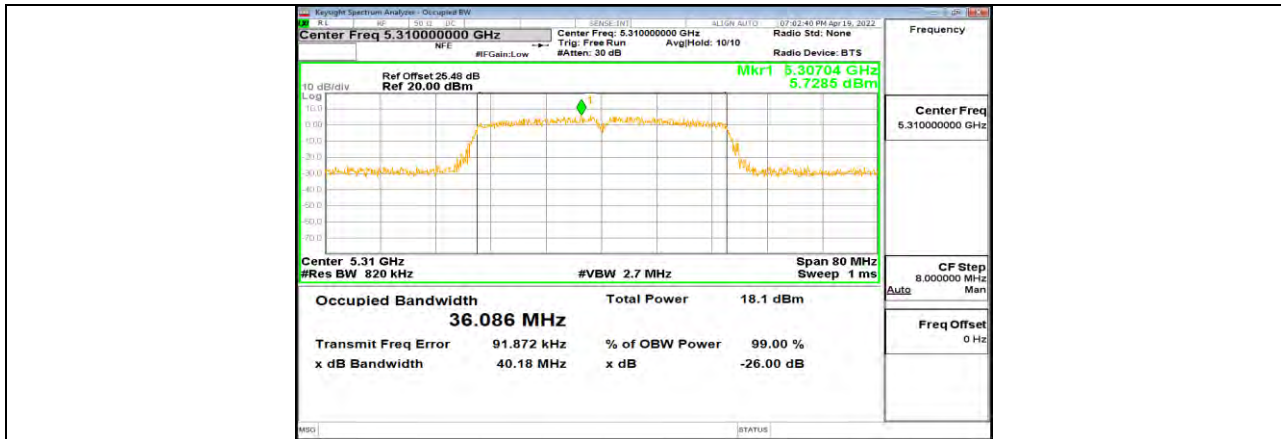


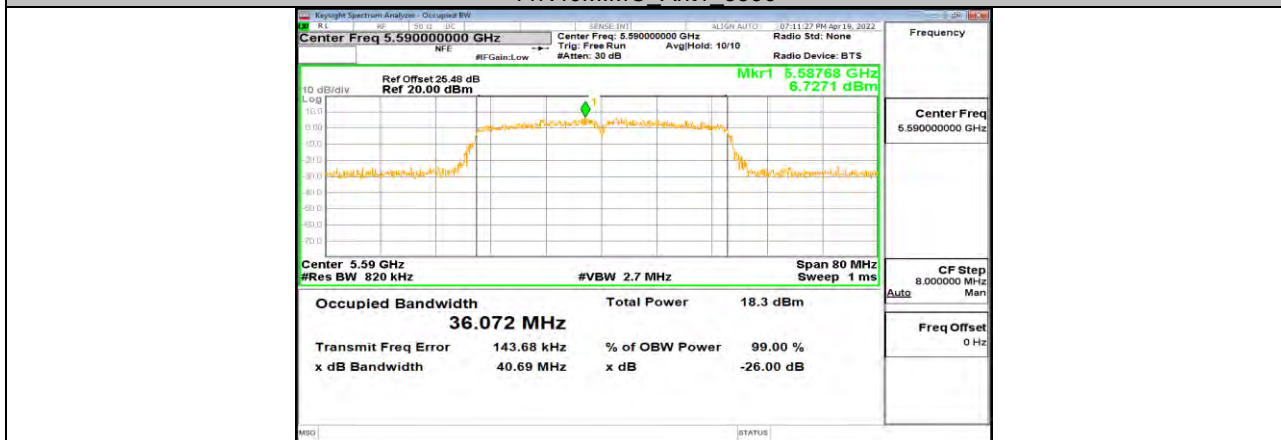
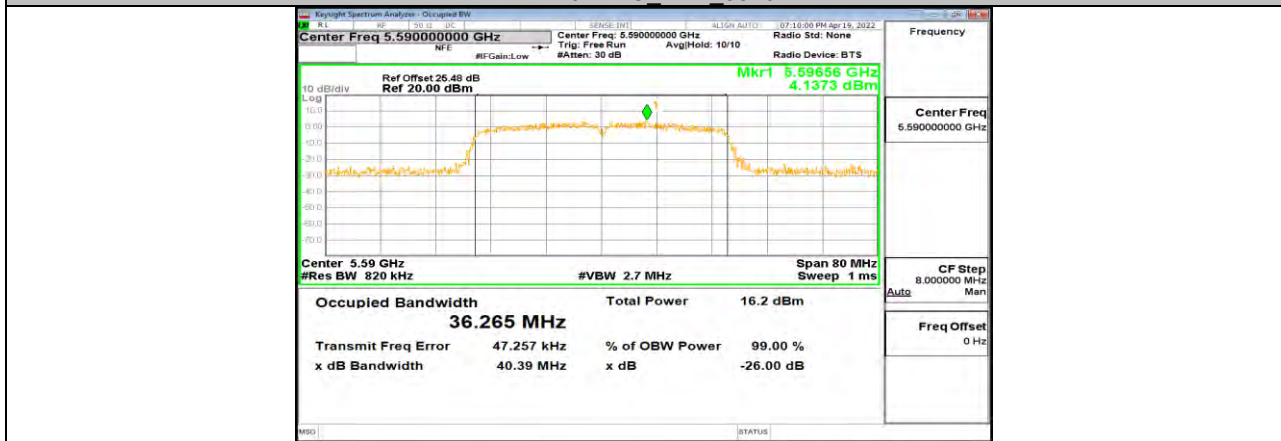
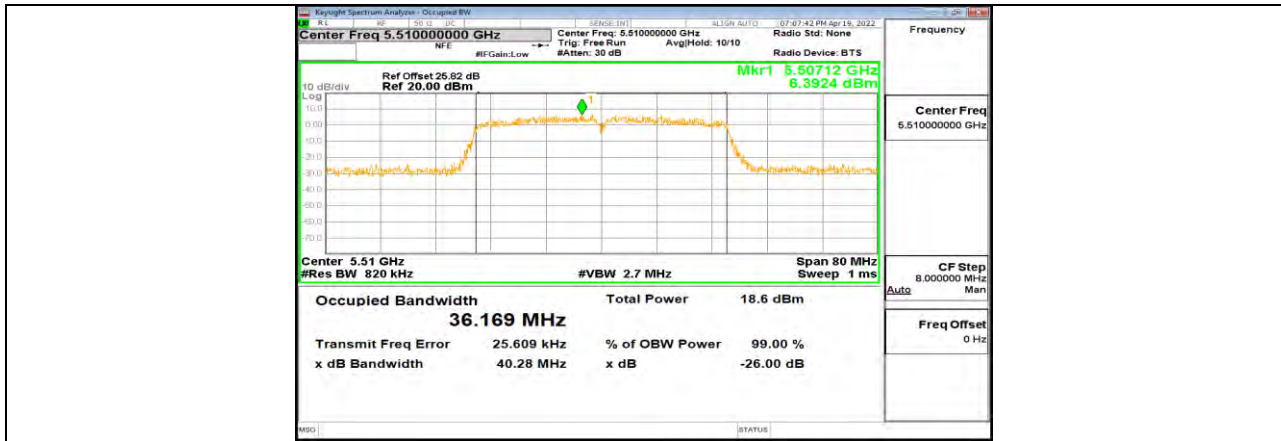


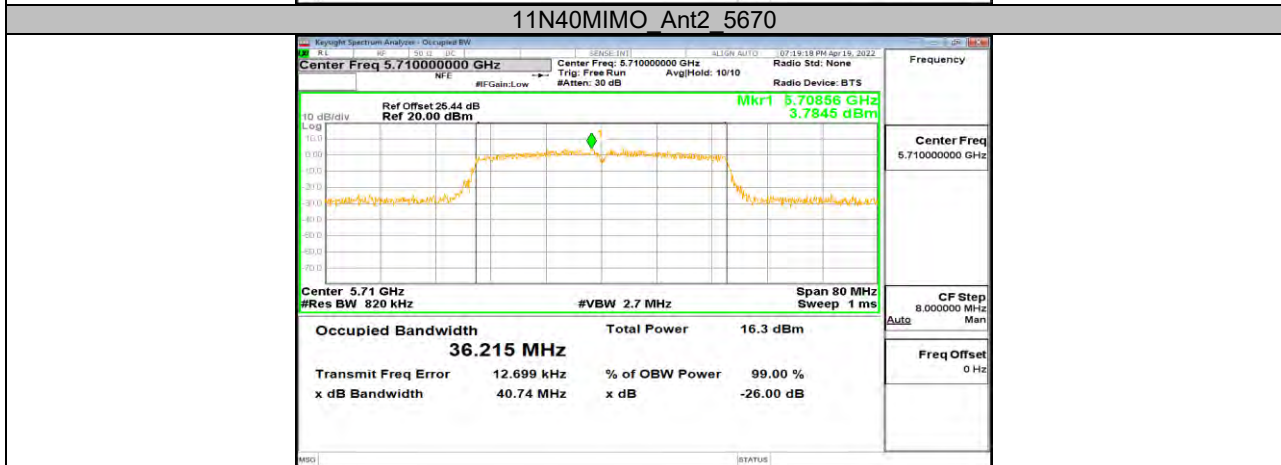
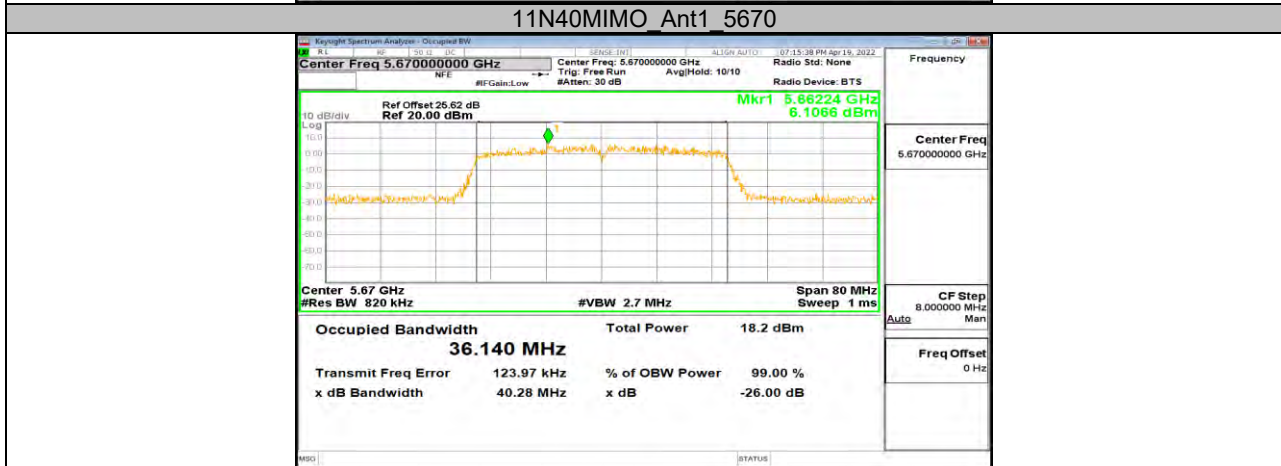
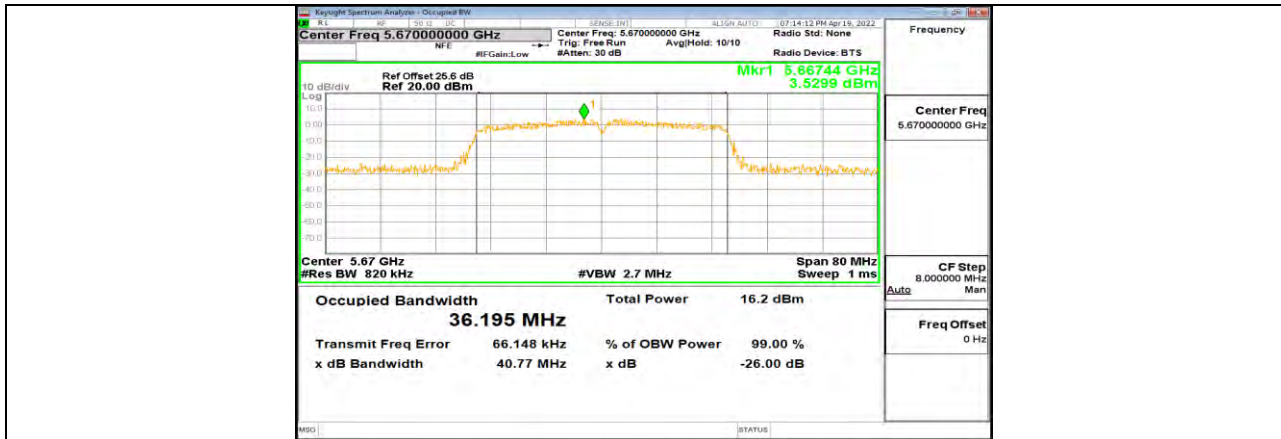


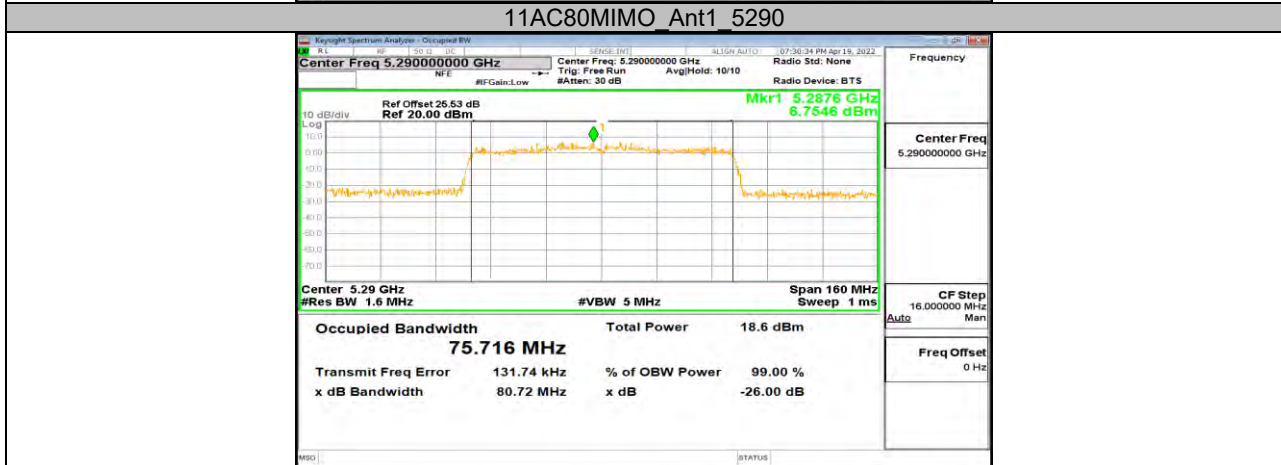
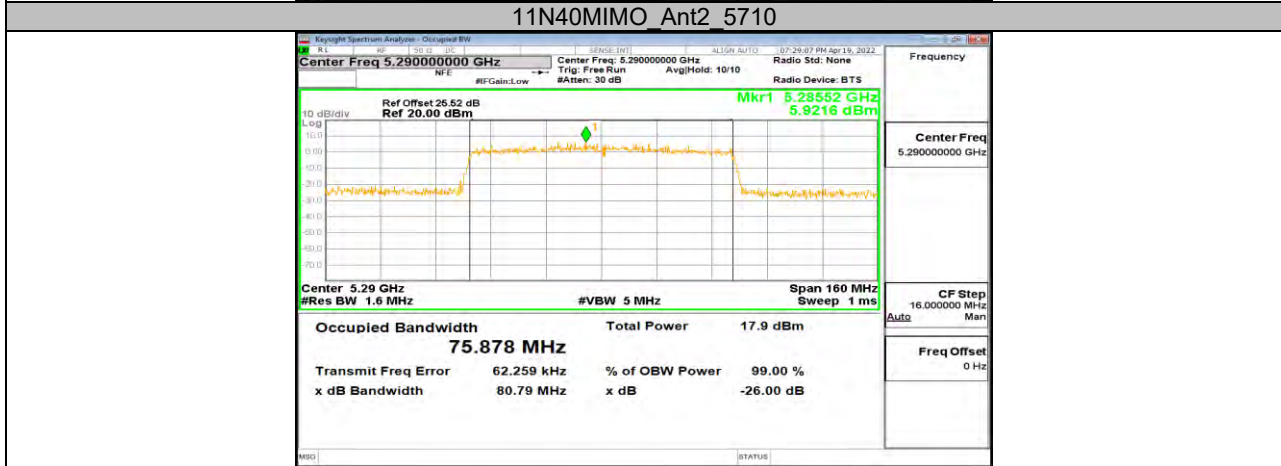
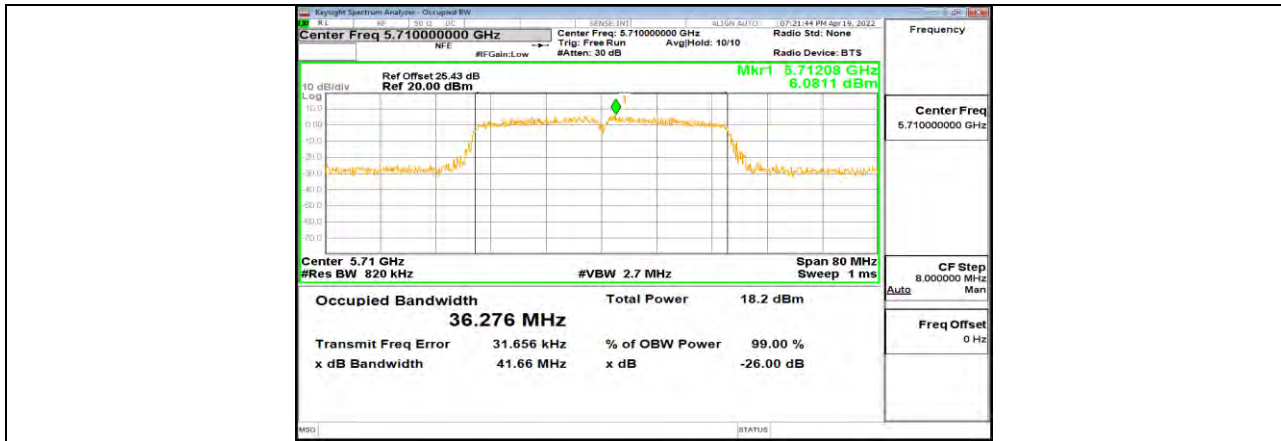


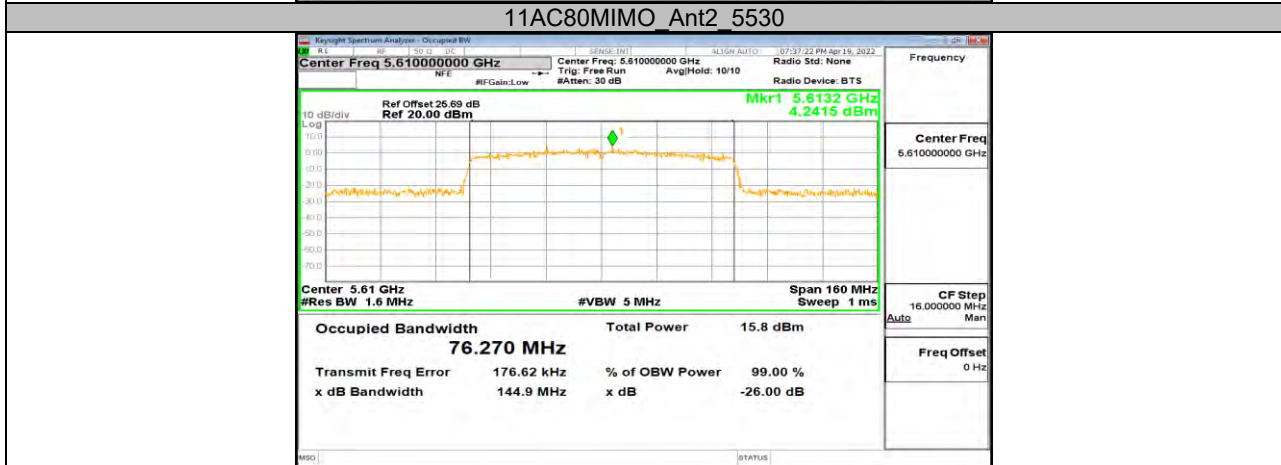
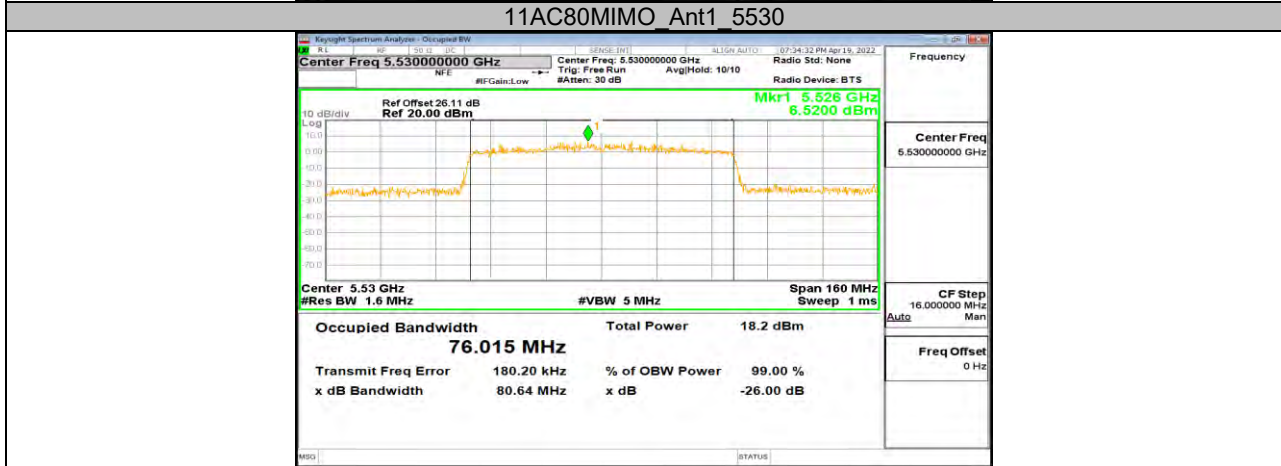
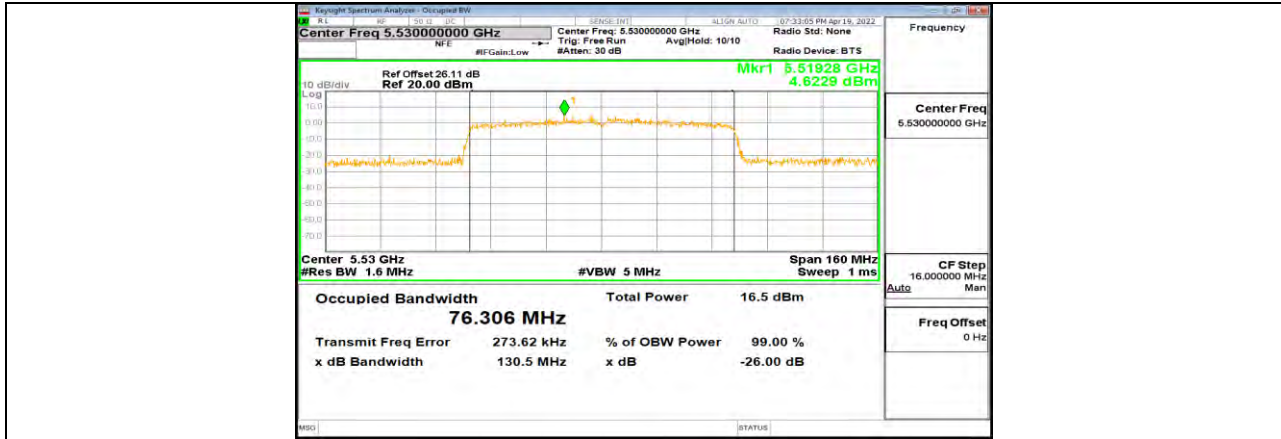




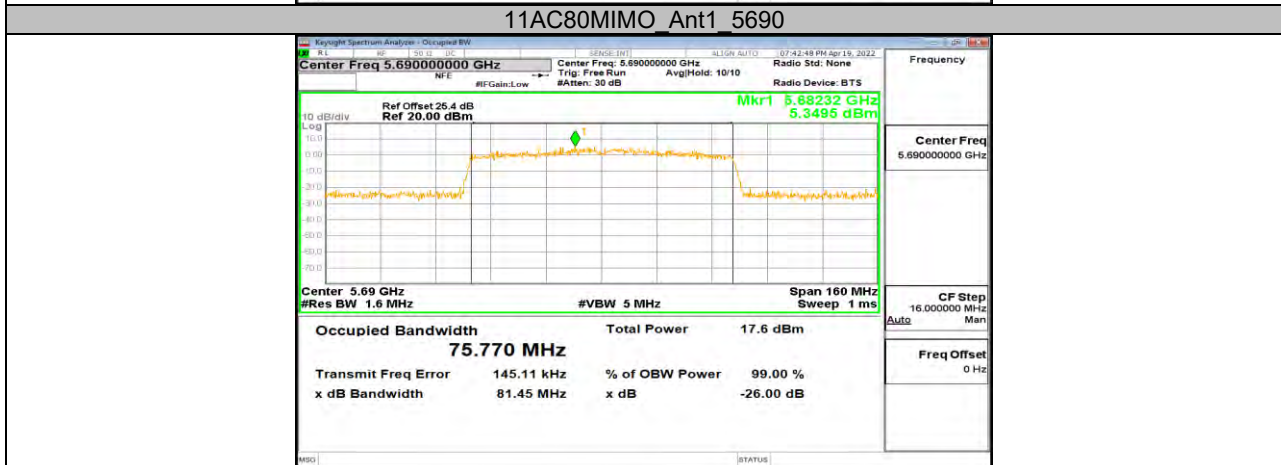
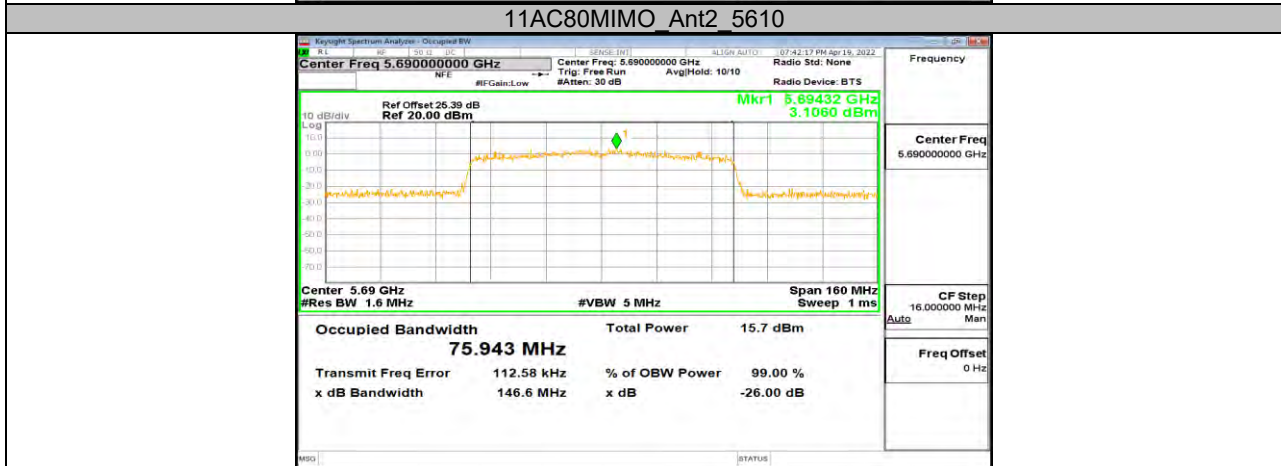
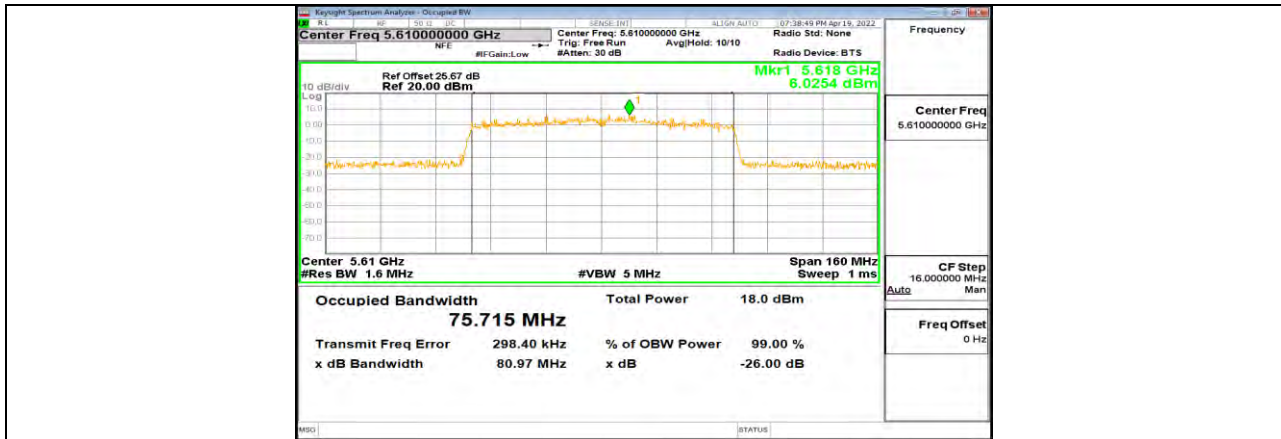








11AC80MIMO Ant1 5610



Note: 1. About the channel power, please refer to the appendix B.
2. All the antenna port had been tested, but only the worst data was recorded in the report.



11.3. Appendix A3: Minimum Emission Bandwidth

11.3.1. Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A 20	Ant1	5745	16.360	5736.840	5753.200	0.5	PASS
	Ant2	5745	16.520	5736.760	5753.280	0.5	PASS
	Ant1	5785	16.400	5776.800	5793.200	0.5	PASS
	Ant2	5785	16.400	5776.800	5793.200	0.5	PASS
	Ant1	5825	16.400	5816.800	5833.200	0.5	PASS
	Ant2	5825	16.160	5817.040	5833.200	0.5	PASS
11N20MIMO	Ant1	5745	17.440	5736.160	5753.600	0.5	PASS
	Ant2	5745	17.560	5736.240	5753.800	0.5	PASS
	Ant1	5785	17.680	5776.160	5793.840	0.5	PASS
	Ant2	5785	17.640	5776.200	5793.840	0.5	PASS
	Ant1	5825	17.680	5816.160	5833.840	0.5	PASS
	Ant2	5825	16.800	5816.560	5833.360	0.5	PASS
11N40MIMO	Ant1	5755	35.520	5736.760	5772.280	0.5	PASS
	Ant2	5755	36.080	5736.760	5772.840	0.5	PASS
	Ant1	5795	36.480	5776.760	5813.240	0.5	PASS
	Ant2	5795	36.080	5777.160	5813.240	0.5	PASS
11AC80MIMO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS
	Ant2	5775	75.360	5737.400	5812.760	0.5	PASS

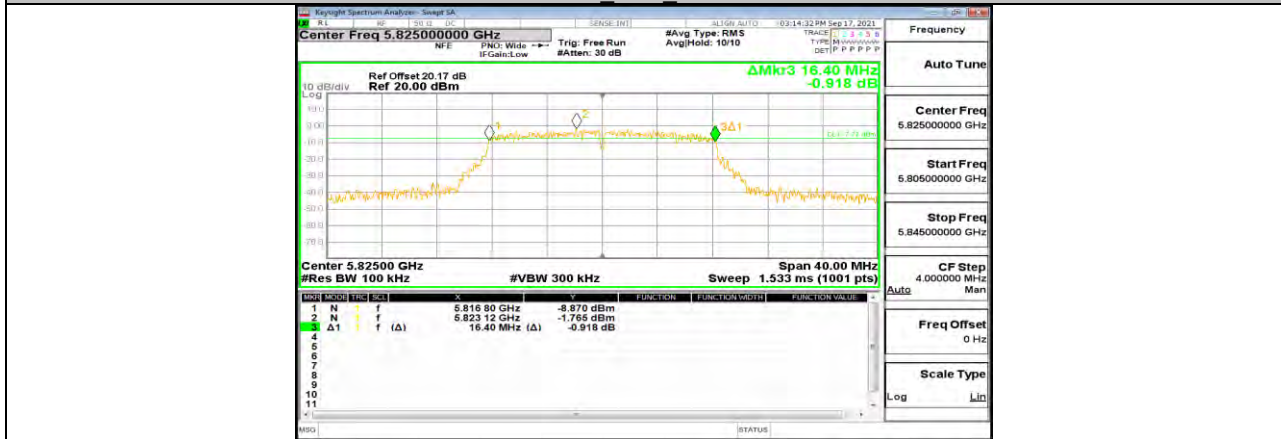
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720 ₃ UNII-	3.16	5725	5728.160	0.5	PASS
	Ant2	5720 ₃ UNII-	1.92	5725	5726.920	0.5	PASS
11N20MIMO	Ant1	5720 ₃ UNII-	3.8	5725	5728.800	0.5	PASS
	Ant2	5720 ₃ UNII-	3.8	5725	5728.800	0.5	PASS
11N40MIMO	Ant1	5710 ₃ UNII-	2.84	5725	5727.840	0.5	PASS
	Ant2	5710 ₃ UNII-	2.52	5725	5727.520	0.5	PASS
11AC80MIMO	Ant1	5690 ₃ UNII-	2.6	5725	5727.600	0.5	PASS
	Ant2	5690 ₃ UNII-	2.44	5725	5727.440	0.5	PASS

11.3.2. Test Graphs





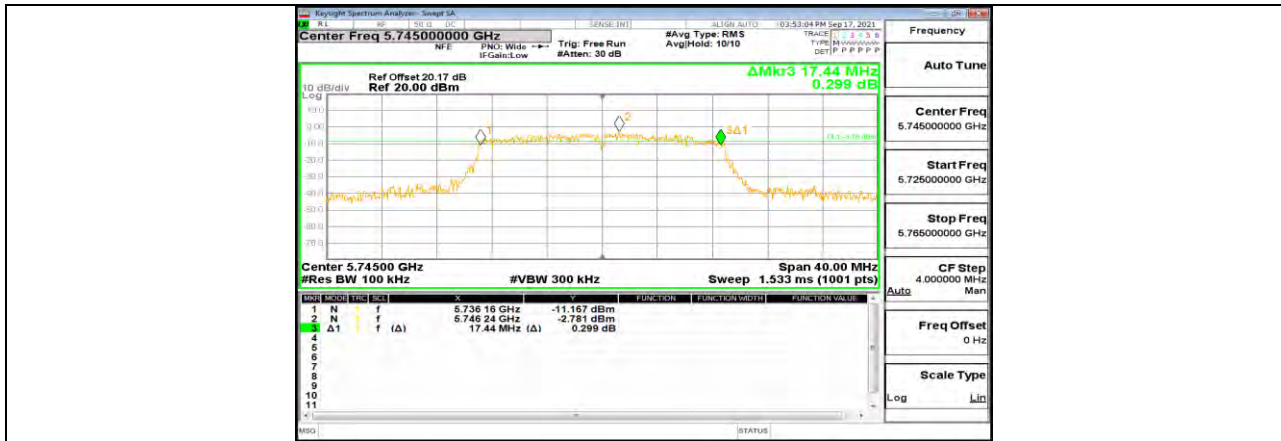
11A Ant2 5785



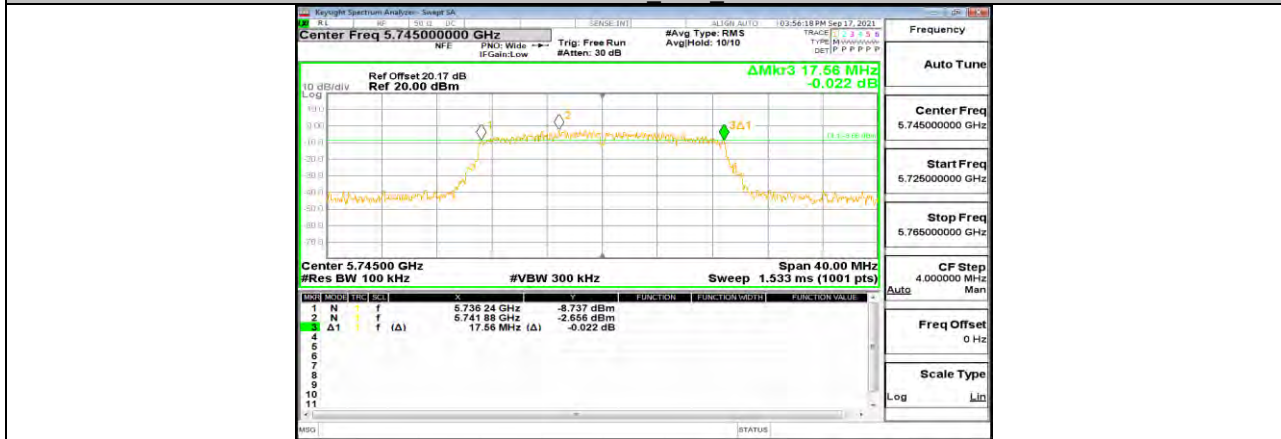
11A Ant1 5825



11A Ant2 5825



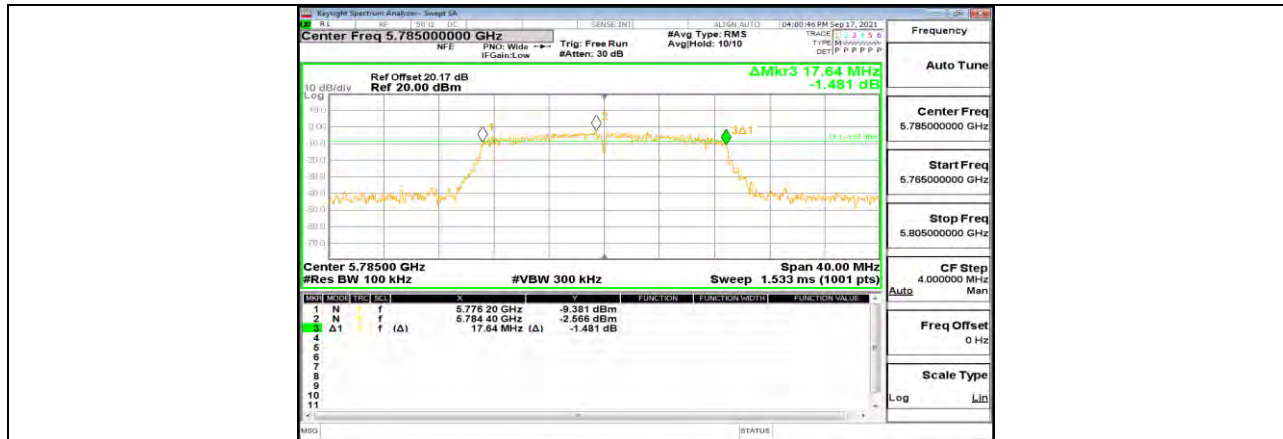
11N20MIMO Ant1 5745



11N20MIMO Ant2 5745



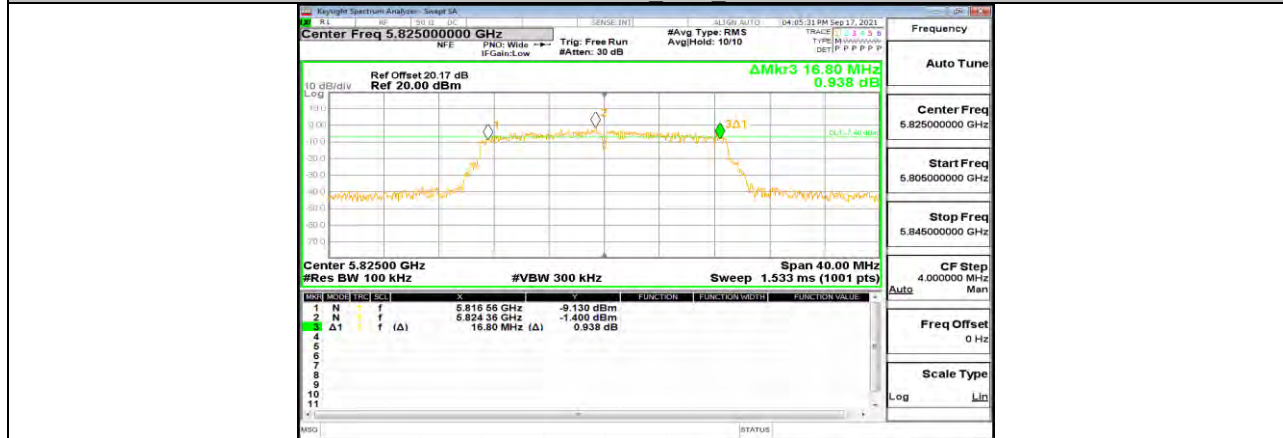
11N20MIMO Ant1 5785



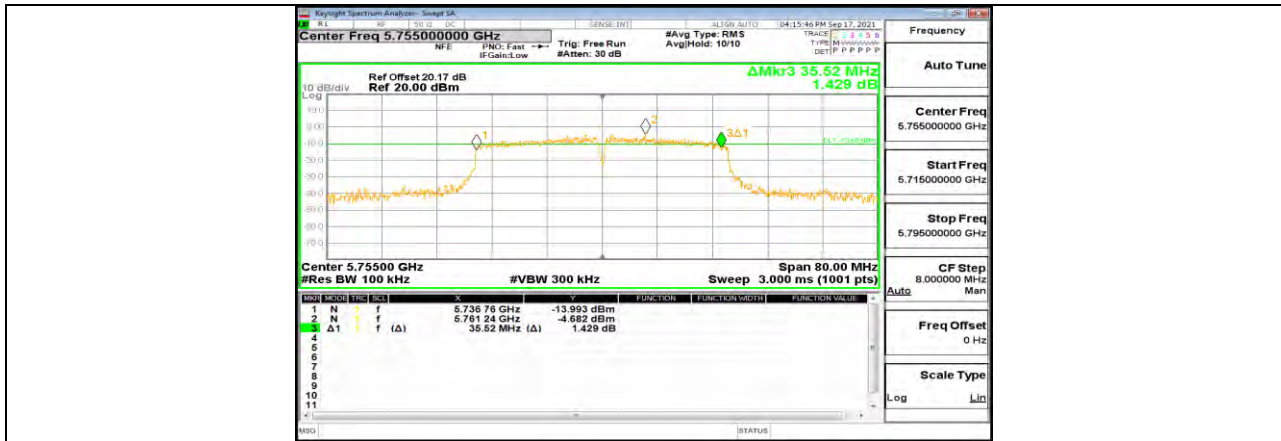
11N20MIMO Ant2 5785



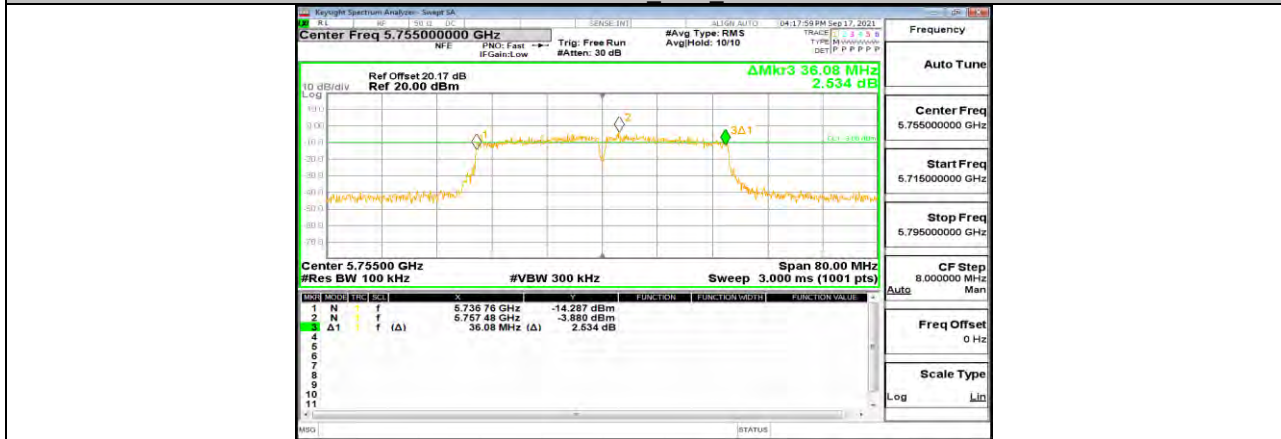
11N20MIMO Ant1 5825



11N20MIMO Ant2 5825



11N40MIMO Ant1 5755



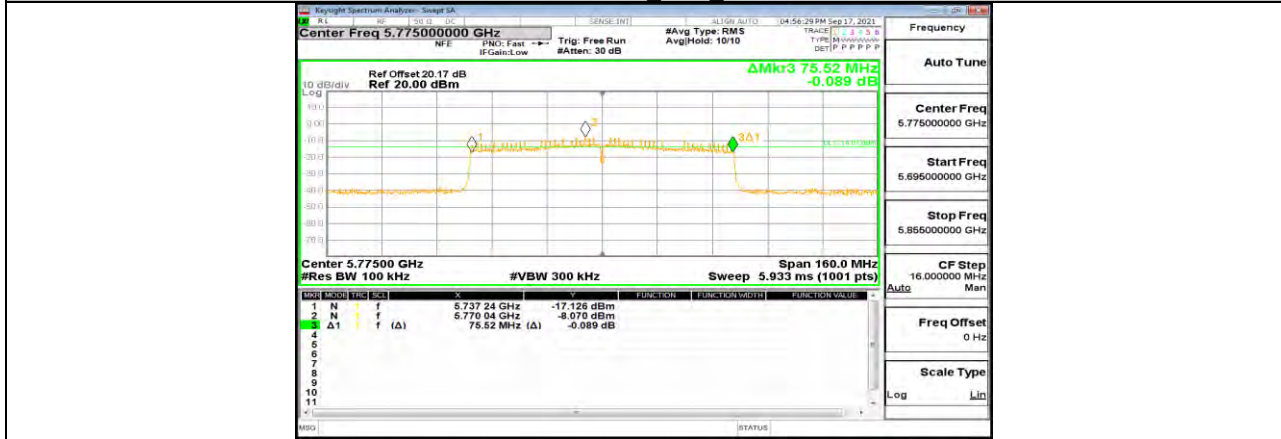
11N40MIMO Ant2 5755



11N40MIMO Ant1 5795



11N40MIMO Ant2 5795



11AC80MIMO Ant1 5775



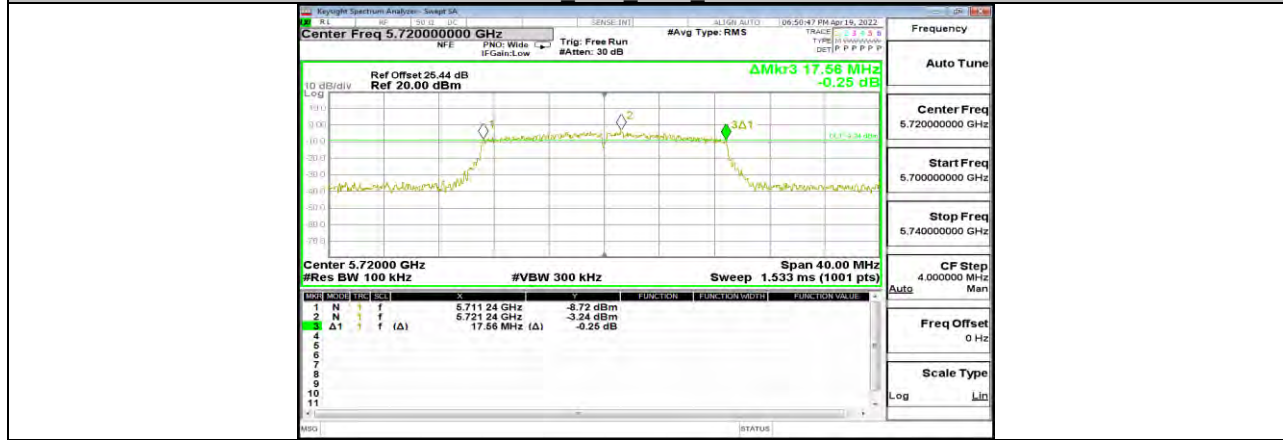
11AC80MIMO Ant2 5775



11A Ant1 5720 UNII-3



11A Ant2 5720 UNII-3



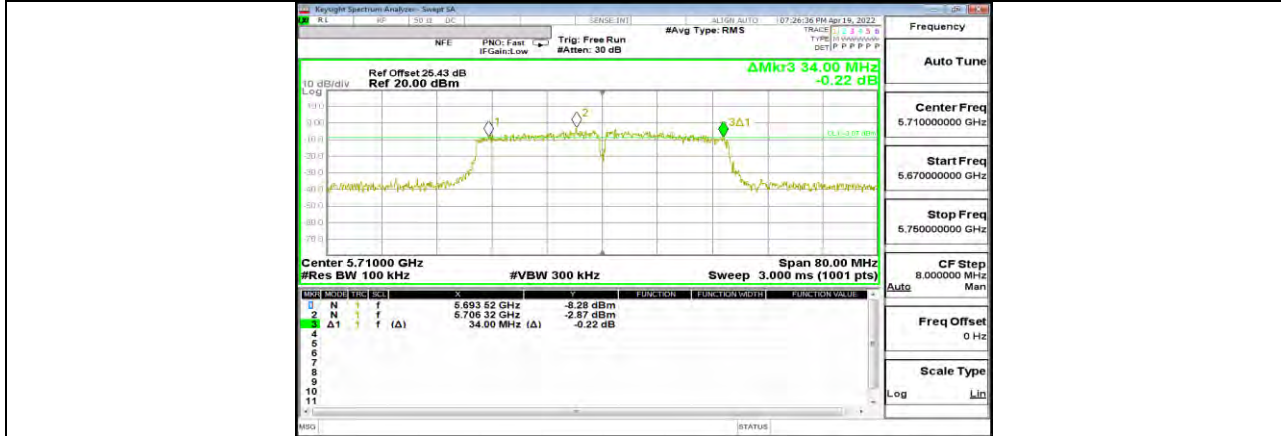
11N20MIMO Ant1 5720 UNII-3



11N20MIMO Ant2 5720 UNII-3



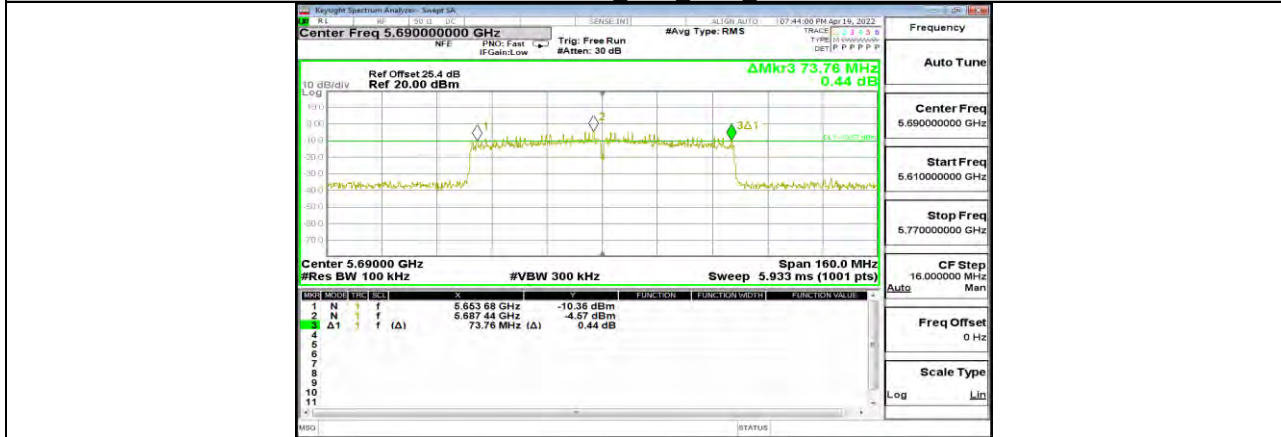
11N40MIMO Ant1 5710 UNII-3



11N40MIMO Ant2 5710 UNII-3



11AC80MIMO Ant1 5690 UNII-3



11AC80MIMO Ant2 5690 UNII-3



11.4. Appendix B: Maximum Average Conducted Output Power

11.4.1. Test Result

Mode	Frequency (MHz)	Average Power (dBm)			Directional gain (dBi)	FCC Limit (dBm)	ISED EIRP (dBm)			ISED Limit (dBm)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a 20	5180	12.69	14.30	/	2.30	23.96	14.99	16.60	/	22.21
	5200	12.73	14.29	/	2.30	23.90	15.03	16.59	/	22.21
	5240	13.09	14.22	/	2.30	23.86	15.39	16.52	/	22.25
	5745	12.42	12.35	/	2.30	30.00	/	/	/	36.00
	5785	12.62	12.49	/	2.30	30.00	/	/	/	36.00
	5825	12.60	12.46	/	2.30	30.00	/	/	/	36.00
802.11n HT20	5180	11.01	10.99	14.01	2.30	24.00	/	/	16.31	22.45
	5200	10.86	11.17	14.03	2.30	24.00	/	/	16.33	22.47
	5240	11.02	11.01	14.03	2.30	23.94	/	/	16.33	22.48
	5745	11.52	11.69	14.62	2.30	30.00	/	/	/	36.00
	5785	11.57	11.86	14.73	2.30	30.00	/	/	/	36.00
	5825	11.46	11.76	14.62	2.30	30.00	/	/	/	36.00
802.11n HT40	5190	13.33	13.66	16.51	2.30	24.00	/	/	18.81	23.00
	5230	13.55	13.78	16.68	2.30	24.00	/	/	18.98	23.00
	5755	12.00	12.28	15.15	2.30	30.00	/	/	/	36.00
	5795	12.03	12.13	15.09	2.30	30.00	/	/	/	36.00
802.11ac VHT80	5210	12.34	12.33	15.35	2.30	24.00	/	/	17.65	23.00
	5775	8.25	9.80	12.10	2.30	30.00	/	/	/	36.00

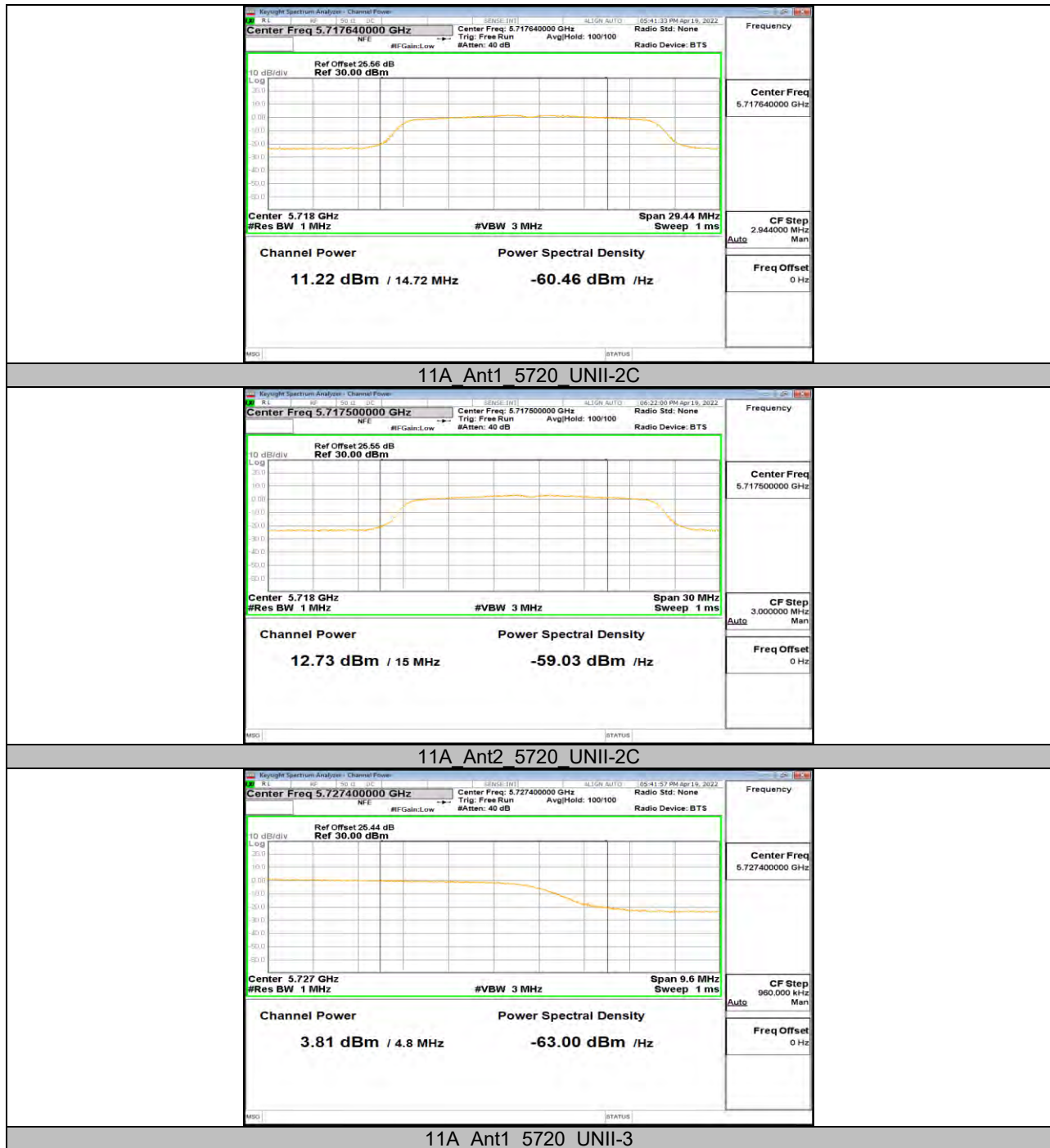


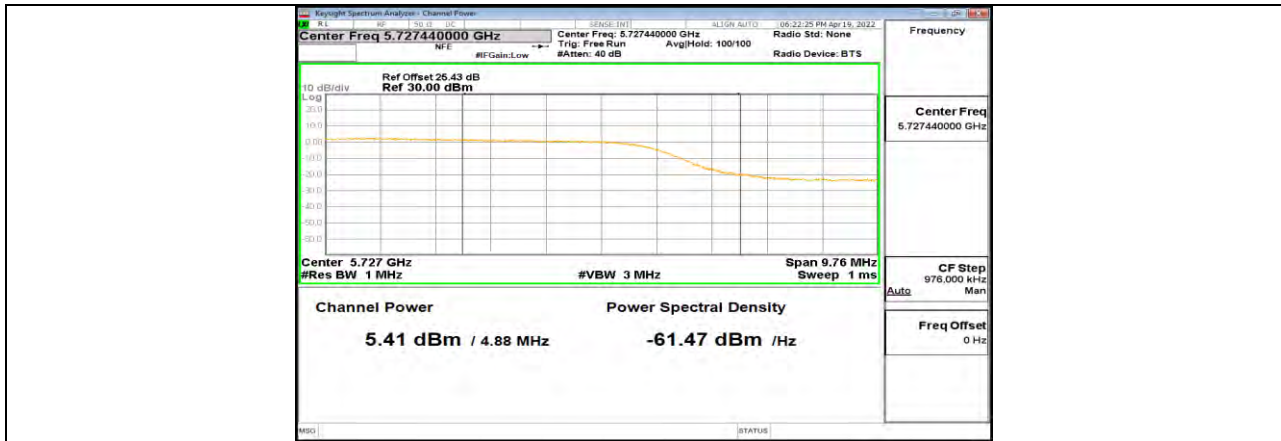
Mode	Frequency (MHz)	Average Power (dBm)			Directional Gain (dBi)	FCC Limit (dBm)	ISED EIRP (dBm)			ISED Limit (dBm)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a	5260	14.61	14.81	/	2.30	24.00	/	/	/	23.21
	5280	14.53	14.83	/	2.30	24.00	/	/	/	23.21
	5320	14.83	15.02	/	2.30	24.00	/	/	/	23.21
	5500	14.20	14.61	/	2.30	24.00	/	/	/	23.21
	5580	13.13	14.26	/	2.30	24.00	/	/	/	23.21
	5700	12.57	13.94	/	2.30	24.00	/	/	/	23.21
	5720-2a	11.22	12.73	/	2.30	24.00	/	/	/	23.21
	5720-2c	3.81	5.41	/	2.30	30.00	/	/	/	36.00
802.11n 20M	5260	12.92	13.39	16.17	2.30	24.00	/	/	/	23.50
	5280	12.77	13.49	16.16	2.30	24.00	/	/	/	23.50
	5320	12.48	13.65	16.11	2.30	24.00	/	/	/	23.50
	5500	11.49	13.14	15.40	2.30	24.00	/	/	/	23.50
	5580	10.89	12.83	14.98	2.30	24.00	/	/	/	23.50
	5700	10.70	12.46	14.68	2.30	24.00	/	/	/	23.50
	5720-2a	9.39	11.13	13.36	2.30	24.00	/	/	/	23.50
	5720-2c	2.50	4.35	6.53	2.30	30.00	/	/	/	36.00
802.11n 40M	5270	13.21	13.98	16.62	2.30	24.00	/	/	/	24.00
	5310	12.85	13.80	16.36	2.30	24.00	/	/	/	24.00
	5510	11.58	13.18	15.46	2.30	24.00	/	/	/	24.00
	5590	10.98	12.81	15.00	2.30	24.00	/	/	/	24.00
	5670	11.09	12.72	14.99	2.30	24.00	/	/	/	24.00
	5710-2a	10.85	12.70	14.88	2.30	24.00	/	/	/	24.00
	5710-2c	-2.12	-0.21	1.95	2.30	30.00	/	/	/	36.00
802.11ac 80M	5290	12.10	12.58	15.36	2.30	24.00	/	/	/	24.00
	5530	10.69	12.40	14.64	2.30	24.00	/	/	/	24.00
	5610	9.96	12.06	14.15	2.30	24.00	/	/	/	24.00
	5690-2a	9.74	11.45	13.69	2.30	24.00	/	/	/	24.00
	5690-2c	-6.71	-4.84	-2.66	2.30	30.00	/	/	/	36.00

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

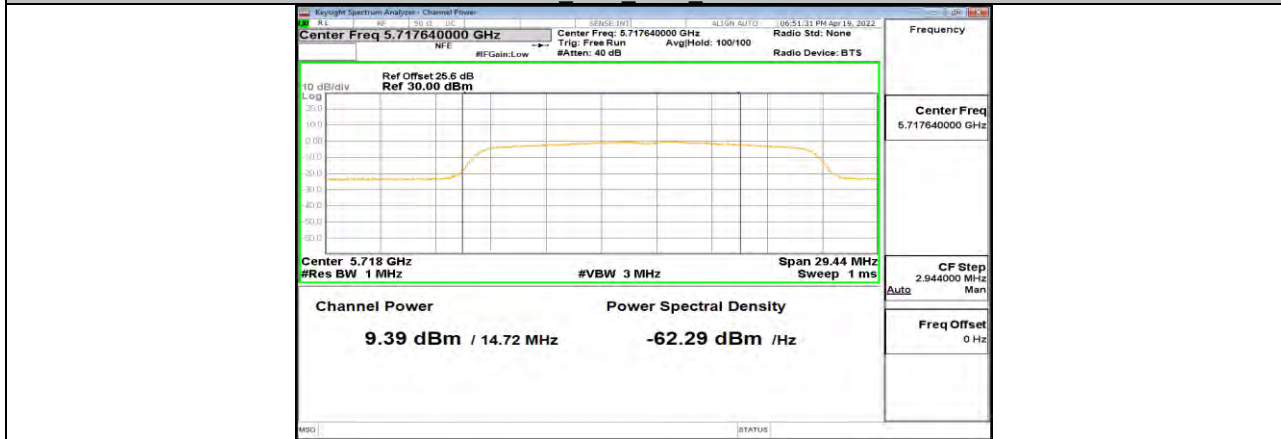


11.4.2. Test Graphs

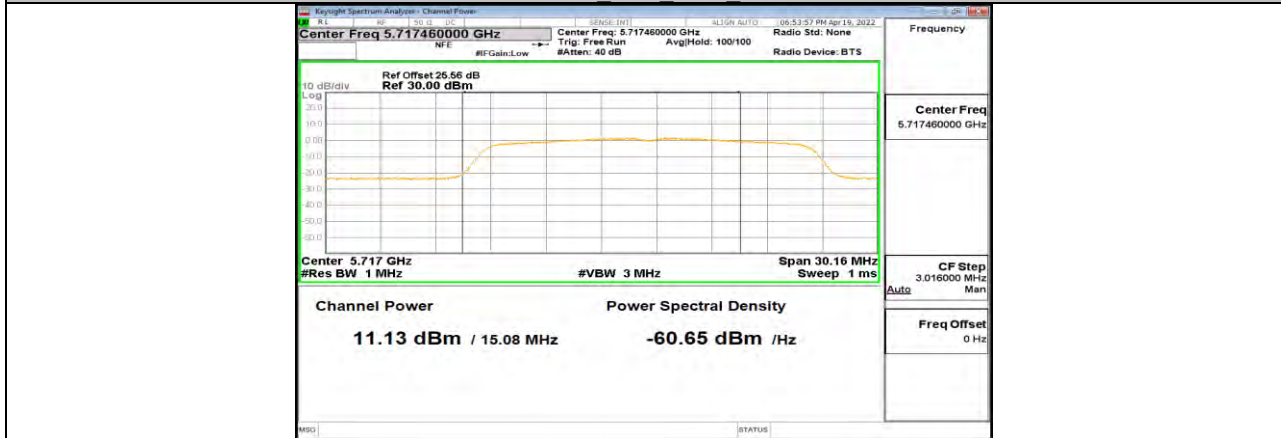




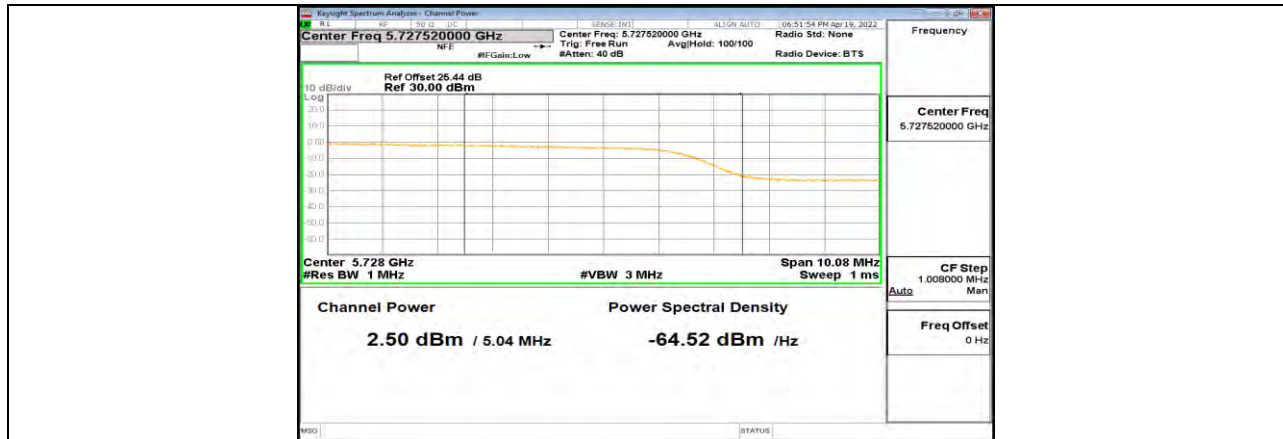
11A Ant2 5720 UNII-3



11N20MIMO Ant1 5720 UNII-2C



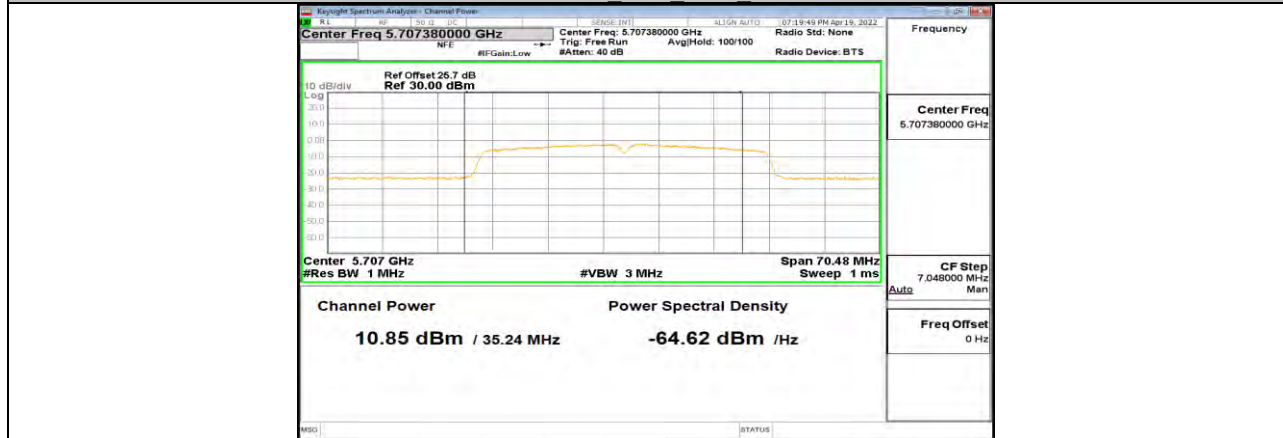
11N20MIMO Ant2 5720 UNII-2C



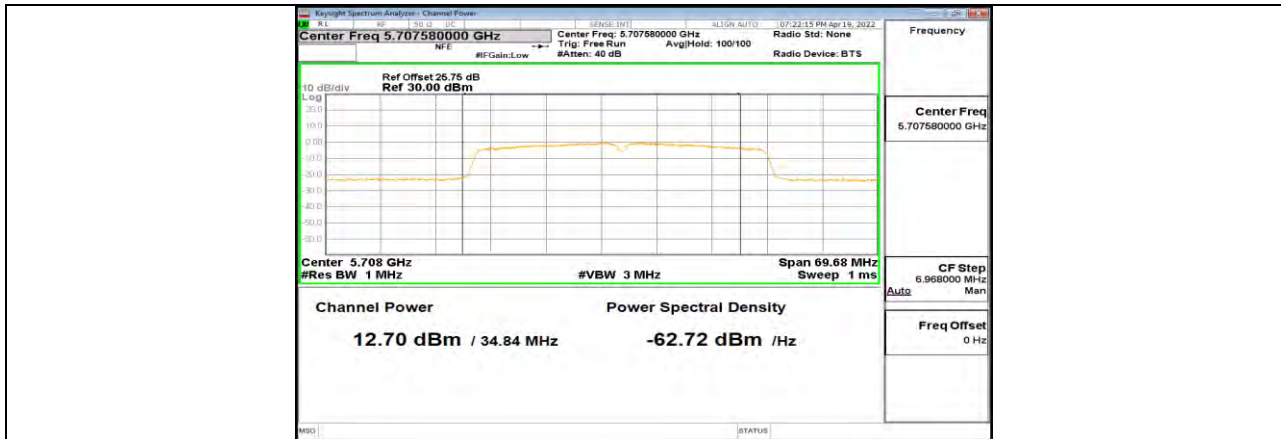
11N20MIMO Ant1 5720 UNII-3



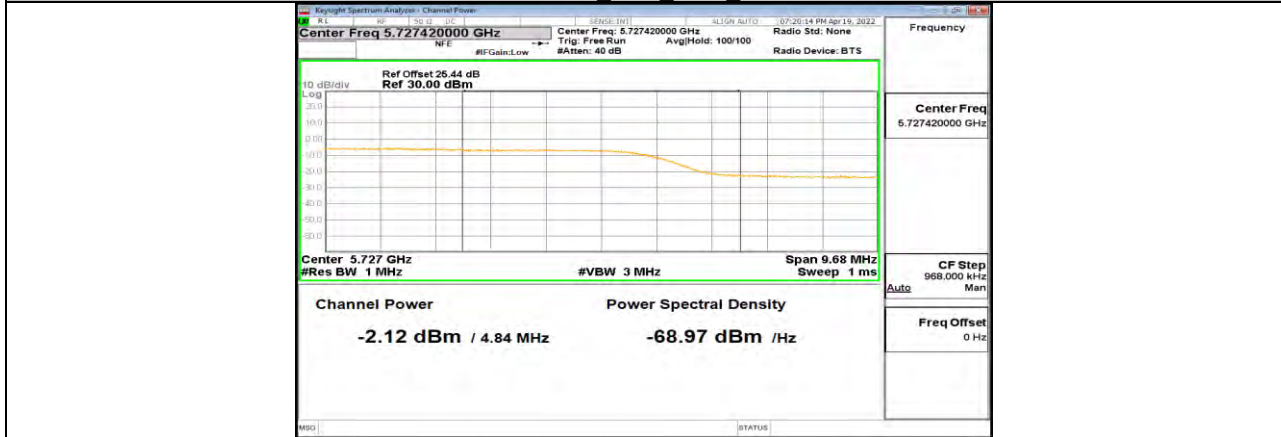
11N20MIMO Ant2 5720 UNII-3



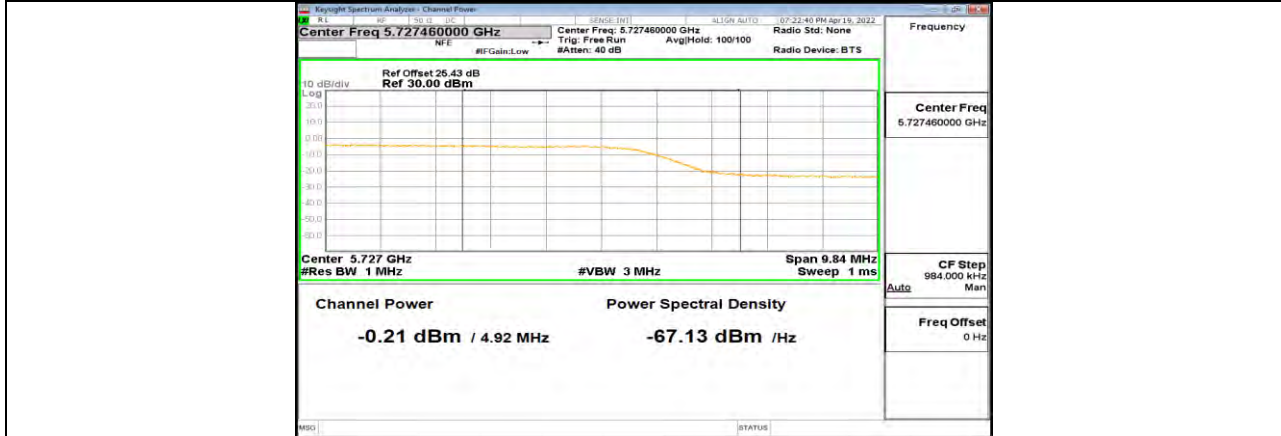
11N40MIMO Ant1 5710 UNII-2C



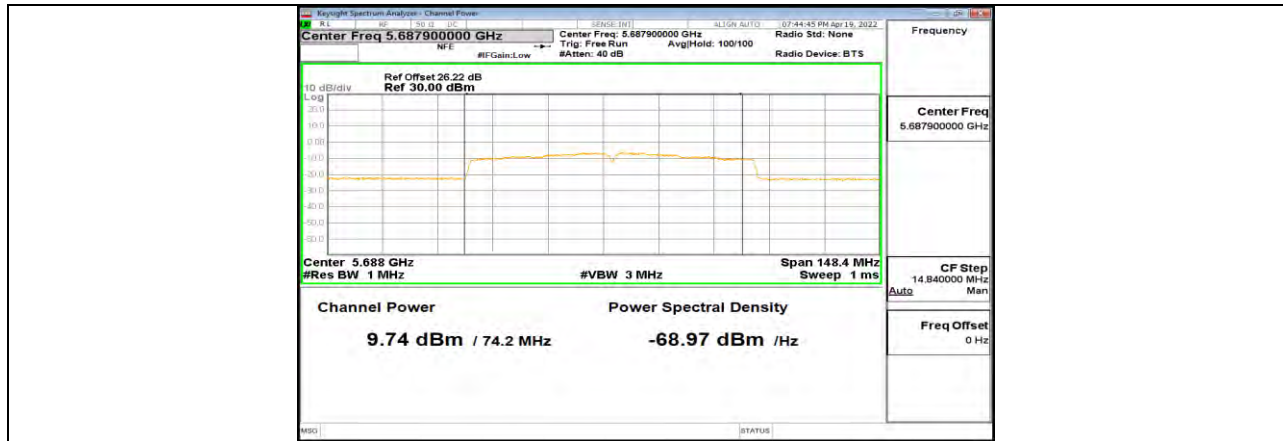
11N40MIMO Ant2 5710 UNII-2C



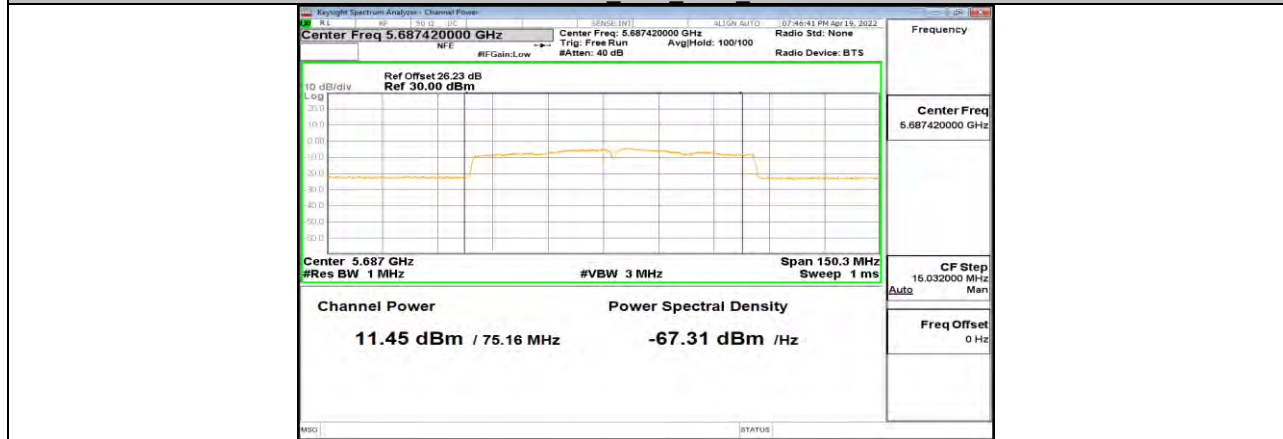
11N40MIMO Ant1 5710 UNII-3



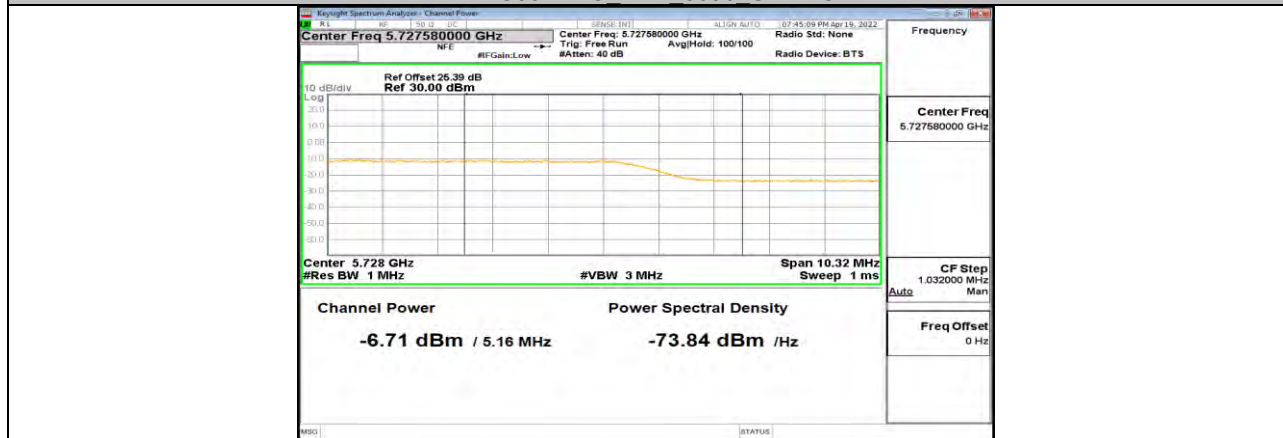
11N40MIMO Ant2 5710 UNII-3



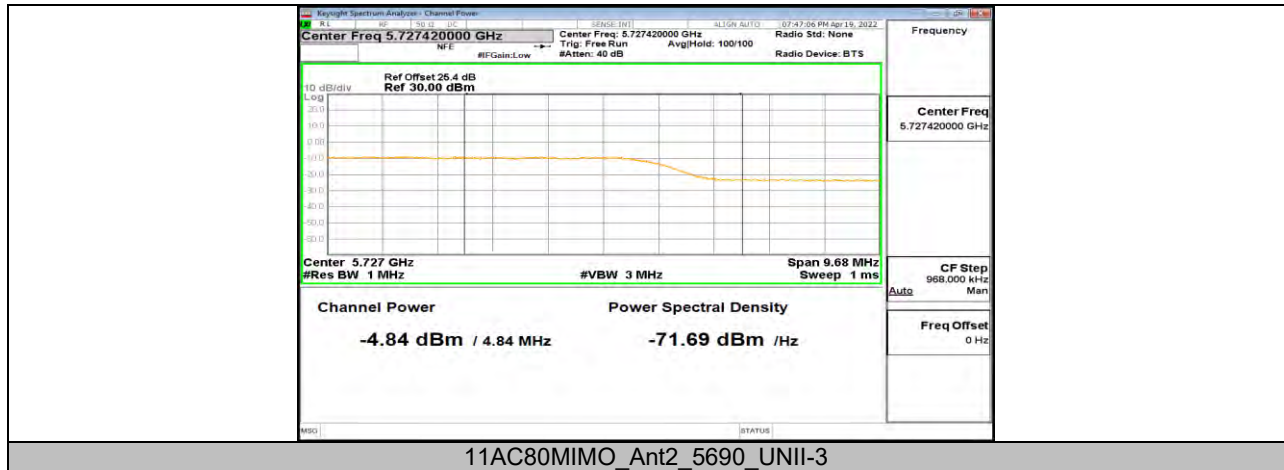
11AC80MIMO Ant1 5690 UNII-2C



11AC80MIMO Ant2 5690 UNII-2C



11AC80MIMO Ant1 5690 UNII-3





11.5. Appendix C: Maximum Power Spectral Density
11.5.1. Test Result

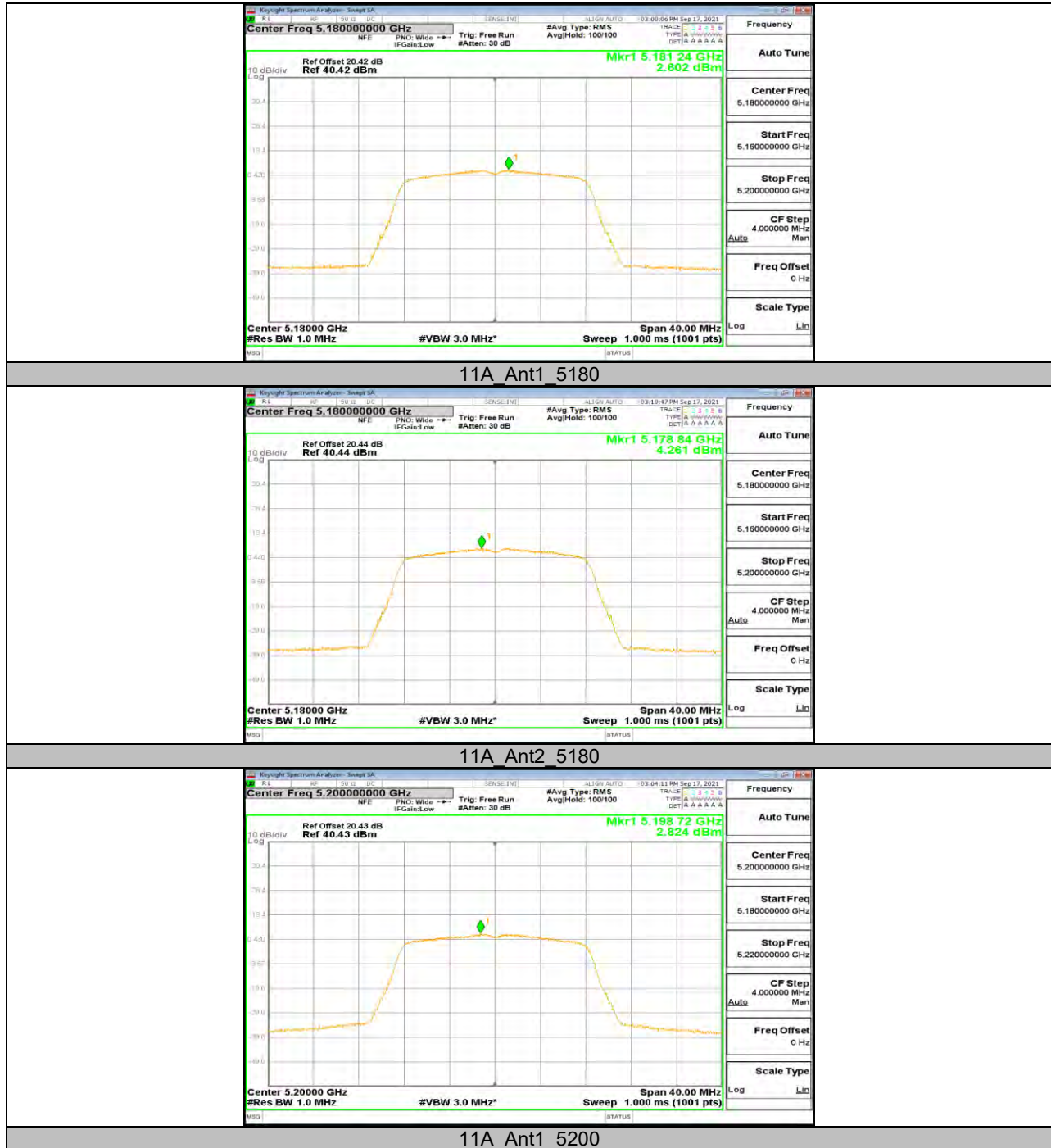
Mode	Frequency (MHz)	PSD 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)			Directional gain (dBi)	FCC Limit 5150-5725 MHz (dBm/MHz) 5725-5850 MHz (dBm/500kHz)	PSD EIRP			ISED Limit 5150-5725 MHz (dBm/MHz) 5725-5850 MHz (dBm/500kHz)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a 20	5180	2.602	4.261	/	2.30	11.00	4.902	6.561	/	10.00
	5200	2.824	4.209	/	2.30	11.00	5.121	6.509	/	10.00
	5240	3.280	4.185	/	2.30	11.00	5.580	6.485	/	10.00
	5745	-0.763	-0.789	/	2.30	30.00	/	/	/	30.00
	5785	-0.193	-0.419	/	2.30	30.00	/	/	/	30.00
	5825	-0.583	-0.558	/	2.30	30.00	/	/	/	30.00
802.11n HT20	5180	0.668	0.464	3.577	5.31	11.00	/	/	8.888	10.00
	5200	0.625	0.848	3.752	5.31	11.00	/	/	9.059	10.00
	5240	0.738	0.660	3.710	5.31	11.00	/	/	9.020	10.00
	5745	-1.302	-1.635	1.544	5.31	30.00	/	/	/	30.00
	5785	-1.591	-1.219	1.609	5.31	30.00	/	/	/	30.00
	5825	-1.770	-1.291	1.487	5.31	30.00	/	/	/	30.00
802.11n HT40	5190	0.147	0.587	3.386	5.31	11.00	/	/	8.693	10.00
	5230	0.798	0.597	3.711	5.31	11.00	/	/	9.019	10.00
	5755	-3.975	-3.466	-0.707	5.31	30.00	/	/	/	30.00
	5795	-4.213	-3.894	-1.037	5.31	30.00	/	/	/	30.00
802.11ac VHT80	5210	-3.522	-3.287	-0.393	5.31	11.00	/	/	4.918	10.00
	5775	-12.127	-8.879	-7.198	5.31	30.00	/	/	/	30.00

Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



Mode	Frequency (MHz)	PSD 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)			Directional gain (dBi)	FCC Limit 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)	PSD EIRP			ISED Limit 5150- 5725MHz (dBm/MHz) 5725- 5850MHz (dBm/500kHz)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a	5260	4.33	4.72	/	2.30	11.00	/	/	/	11.00
	5280	4.43	4.70	/	2.30	11.00	/	/	/	11.00
	5320	3.97	4.96	/	2.30	11.00	/	/	/	11.00
	5500	3.99	4.41	/	2.30	11.00	/	/	/	11.00
	5580	3.20	4.09	/	2.30	11.00	/	/	/	11.00
	5700	2.30	3.68	/	2.30	11.00	/	/	/	11.00
	5720-2a	2.08	3.58	/	2.30	12.00	/	/	/	12.00
	5720-2c	-2.75	-1.16	/	2.30	29.00	/	/	/	29.00
802.11n 20M	5260	2.62	3.2	5.93	5.31	11.00	/	/	/	11.00
	5280	2.67	3.51	6.12	5.31	11.00	/	/	/	11.00
	5320	2.1	3.55	5.90	5.31	11.00	/	/	/	11.00
	5500	1.00	2.54	4.85	5.31	11.00	/	/	/	11.00
	5580	0.66	2.59	4.74	5.31	11.00	/	/	/	11.00
	5700	0.43	2.22	4.43	5.31	11.00	/	/	/	11.00
	5720-2a	0.46	1.99	4.30	5.31	12.00	/	/	/	12.00
	5720-2c	-4.46	-2.71	-0.49	5.31	29.00	/	/	/	29.00
802.11n 40M	5270	-0.16	0.82	3.37	5.31	11.00	/	/	/	11.00
	5310	-0.58	0.61	3.07	5.31	11.00	/	/	/	11.00
	5510	-1.7	-0.2	2.12	5.31	11.00	/	/	/	11.00
	5590	-2.4	-0.35	1.76	5.31	11.00	/	/	/	11.00
	5670	-2.62	-0.76	1.42	5.31	11.00	/	/	/	11.00
	5710-2a	-1.97	-0.58	1.79	5.31	12.00	/	/	/	12.00
	5710-2c	-8.53	-6.34	-4.29	5.31	29.00	/	/	/	29.00
802.11ac 80M	5290	-4.62	-3.59	-1.06	5.31	11.00	/	/	/	11.00
	5530	-5.79	-3.68	-1.60	5.31	11.00	/	/	/	11.00
	5610	-6.26	-4.26	-2.14	5.31	11.00	/	/	/	11.00
	5690-2a	-5.55	-4.36	-1.91	5.31	12.00	/	/	/	12.00
	5690-2c	-12.57	-10.81	-8.59	5.31	29.00	/	/	/	29.00

11.5.2. Test Graphs





11A Ant2 5200



11A Ant1 5240



11A Ant2 5240



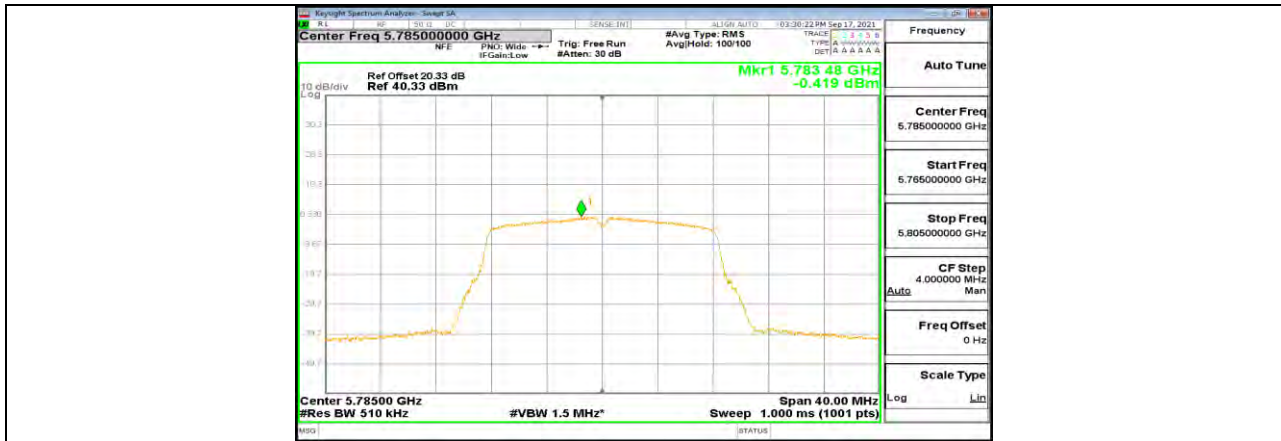
11A Ant1 5745



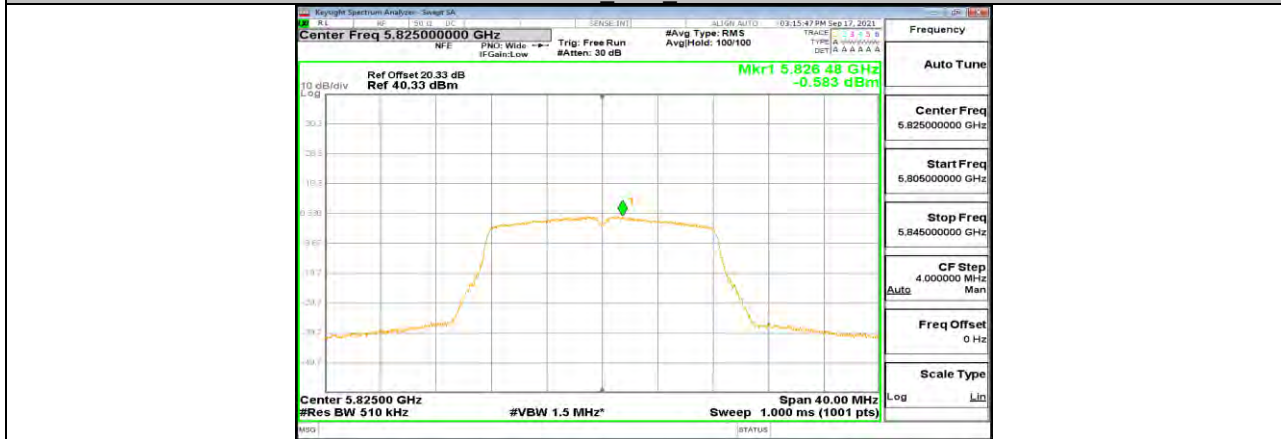
11A Ant2 5745



11A Ant1 5785



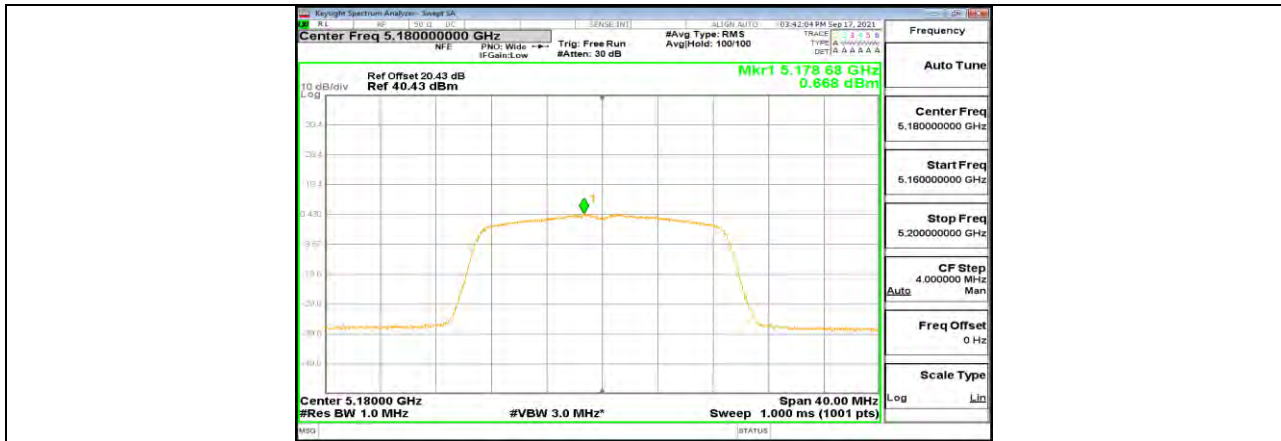
11A Ant2 5785



11A Ant1 5825



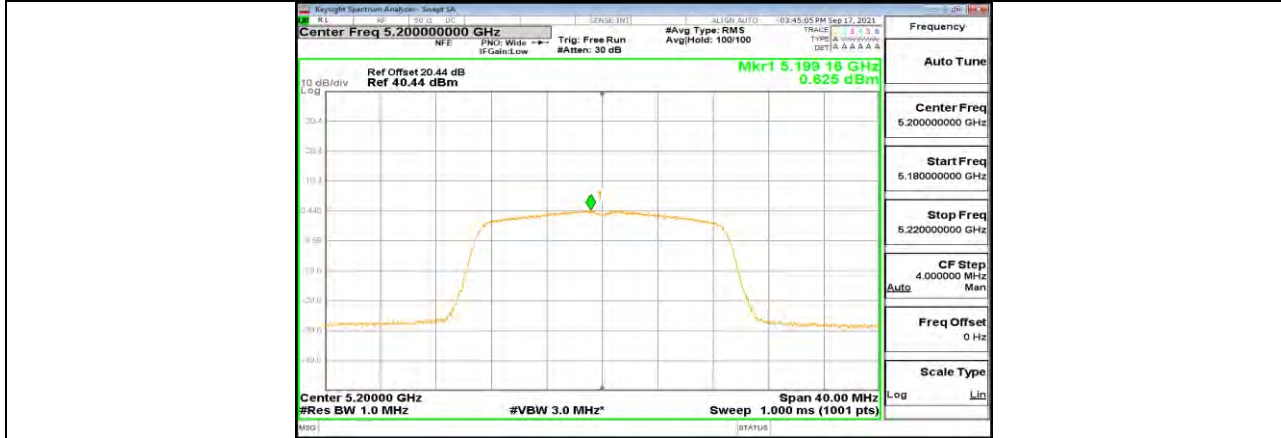
11A Ant2 5825



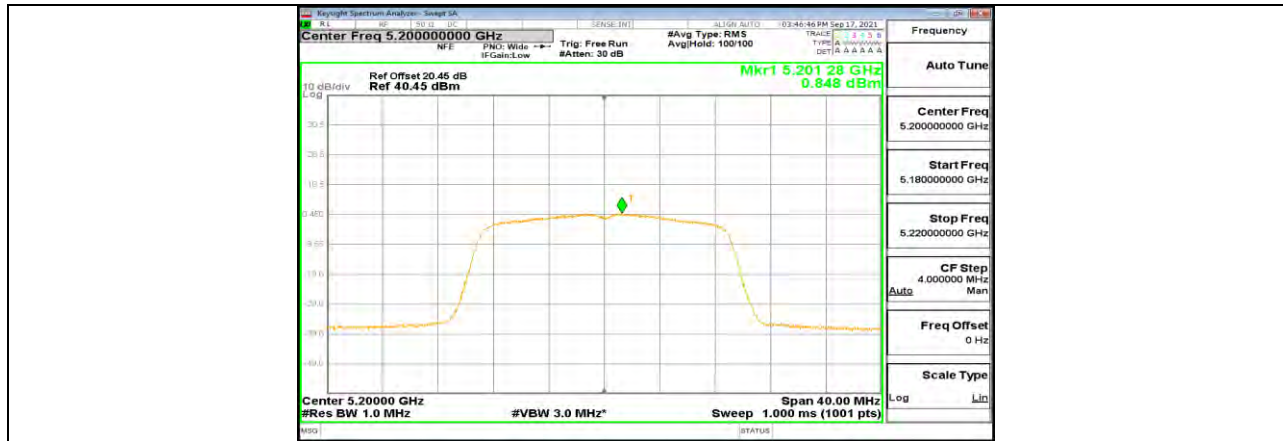
11N20MIMO Ant1 5180



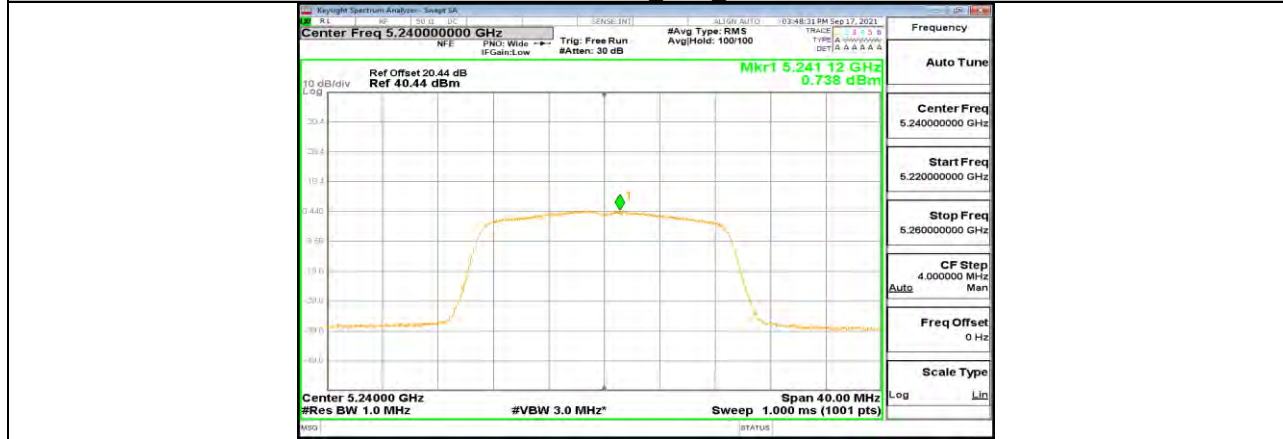
11N20MIMO Ant2 5180



11N20MIMO Ant1 5200



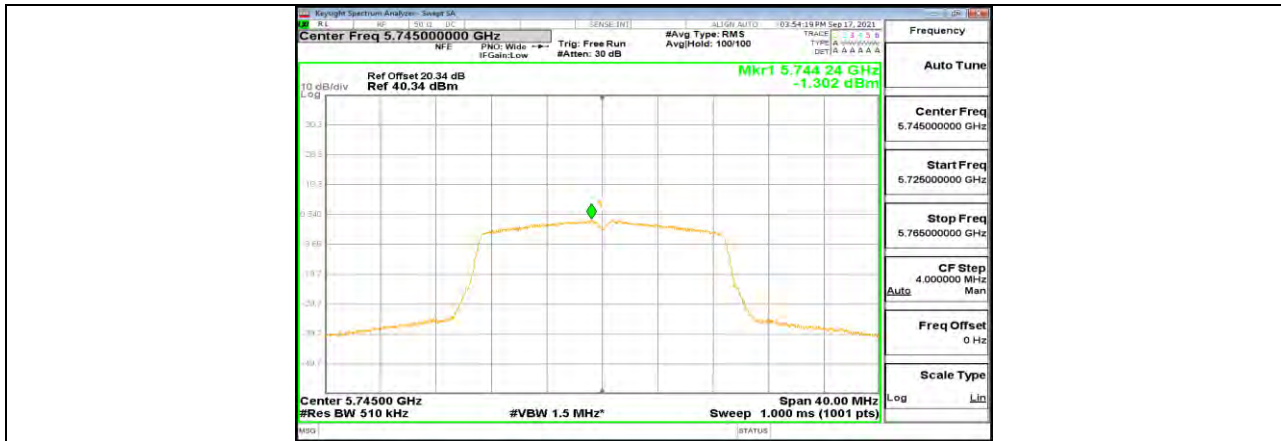
11N20MIMO Ant2 5200



11N20MIMO Ant1 5240



11N20MIMO Ant2 5240



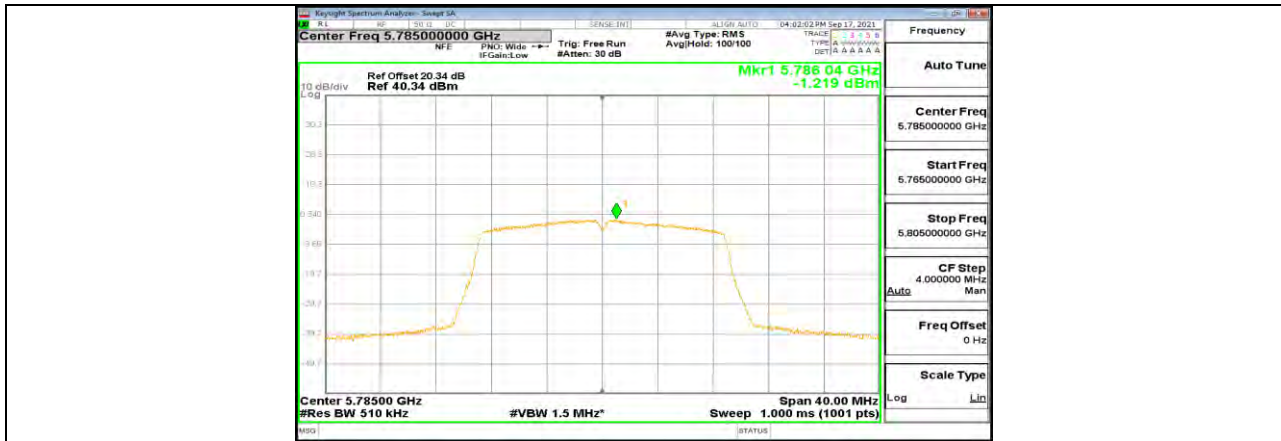
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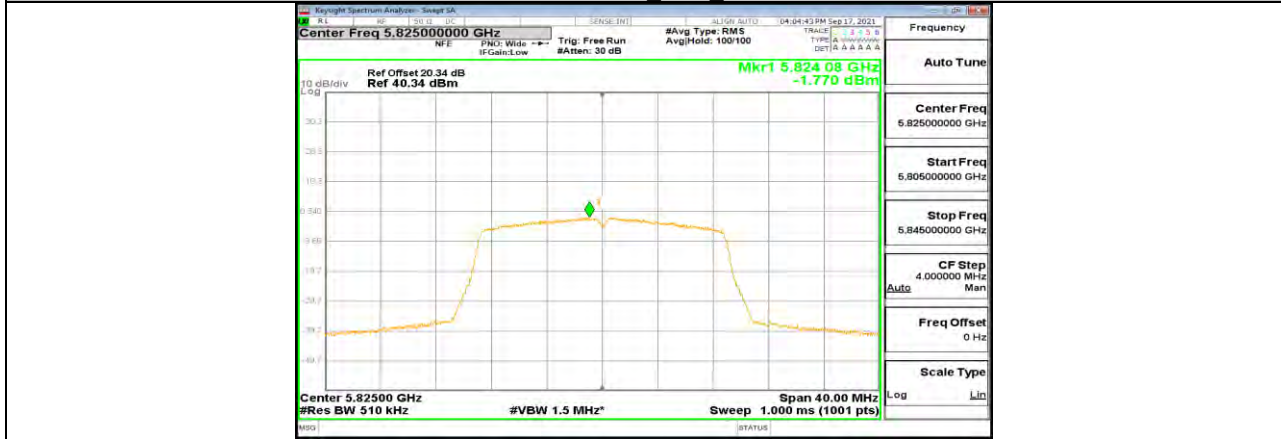
11N20MIMO Ant2 5745



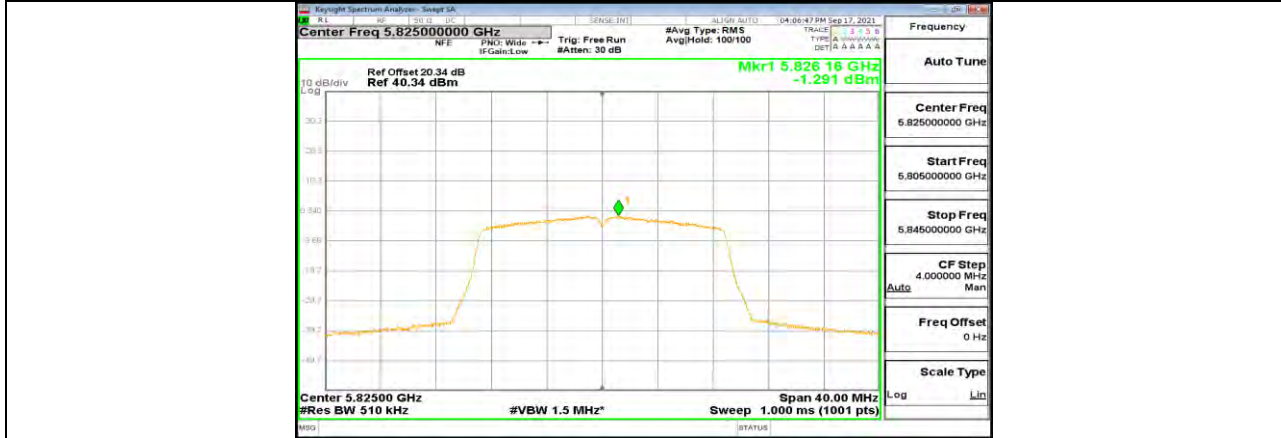
11N20MIMO Ant1 5785



11N20MIMO Ant2 5785



11N20MIMO Ant1 5825



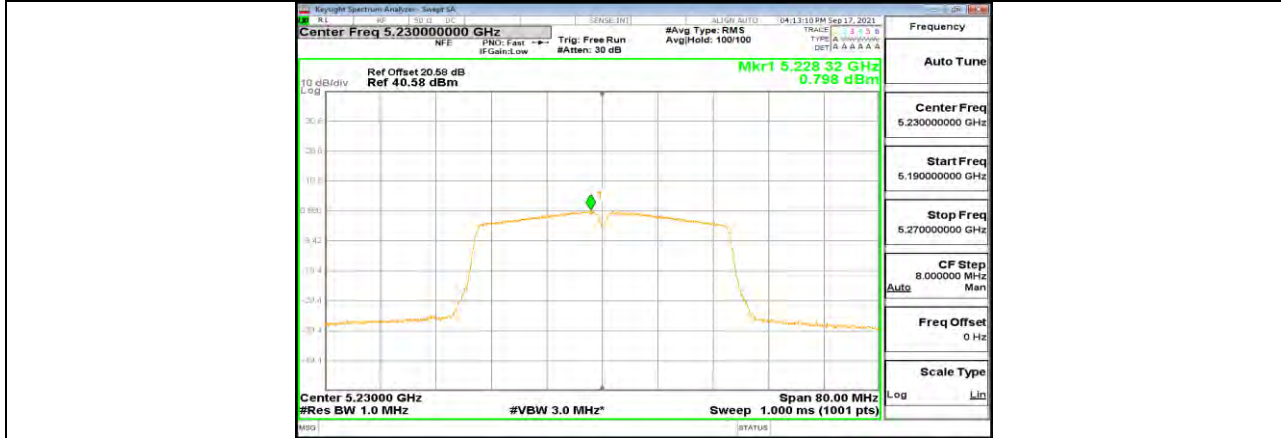
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11N40MIMO Ant1 5190



11N40MIMO Ant2 5190



11N40MIMO Ant1 5230

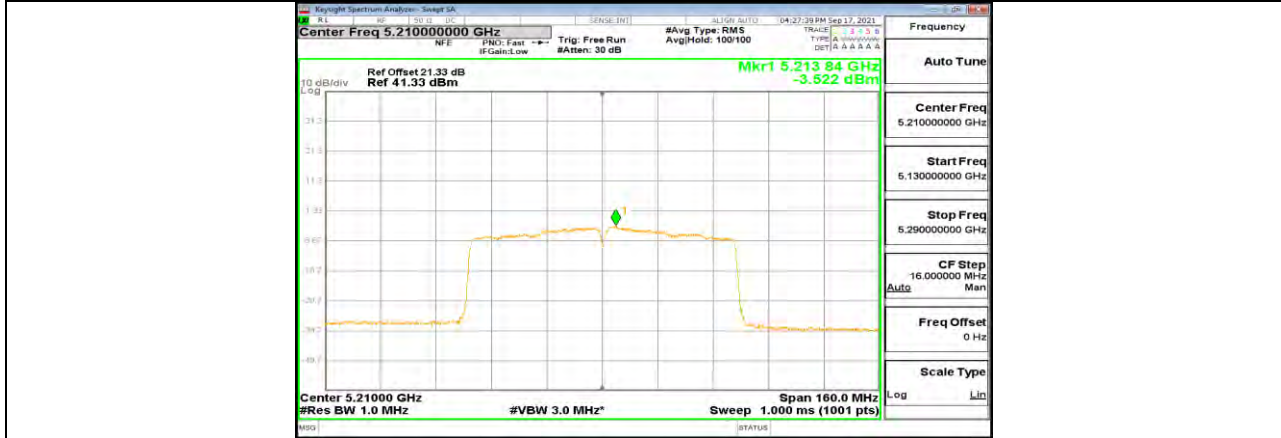




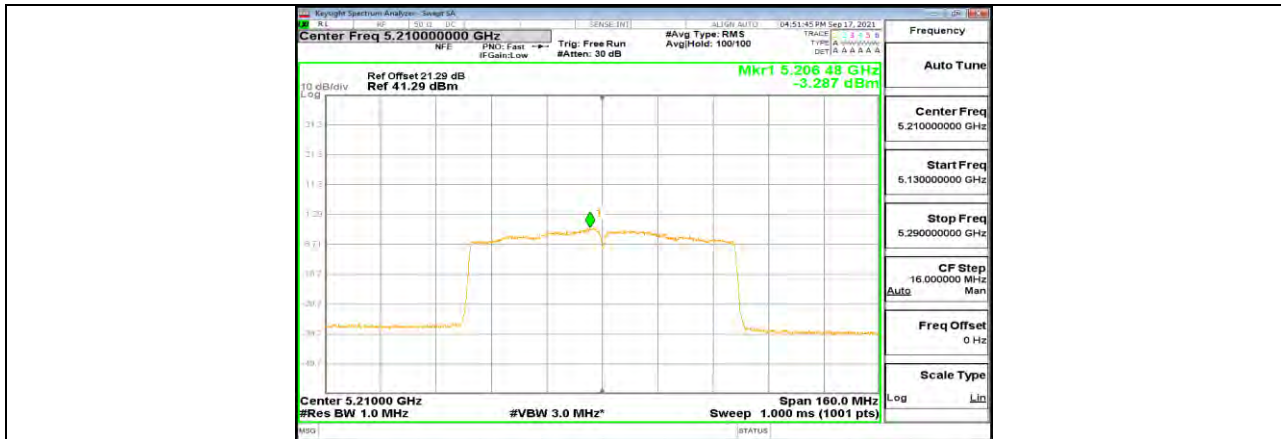
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11N40MIMO Ant2 5795



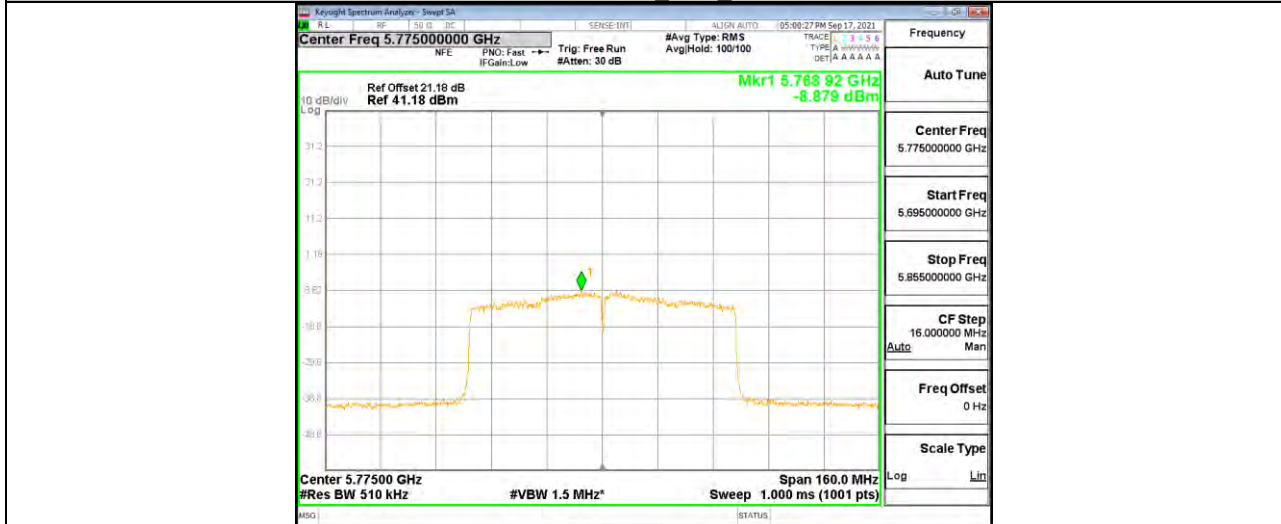
11AC80MIMO Ant1 5210



11AC80MIMO Ant2 5210



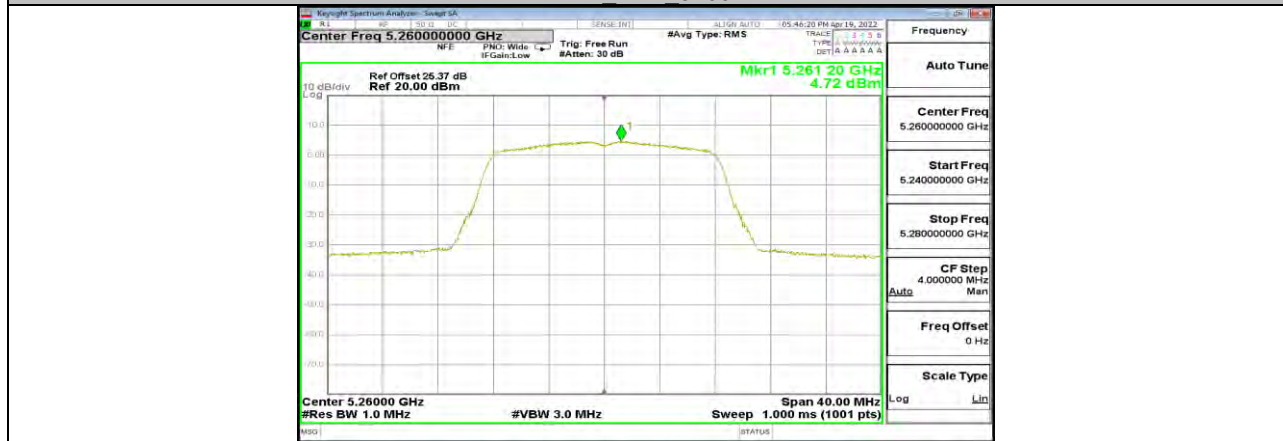
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11AC80MIMO Ant2 5775



11A Ant1 5260



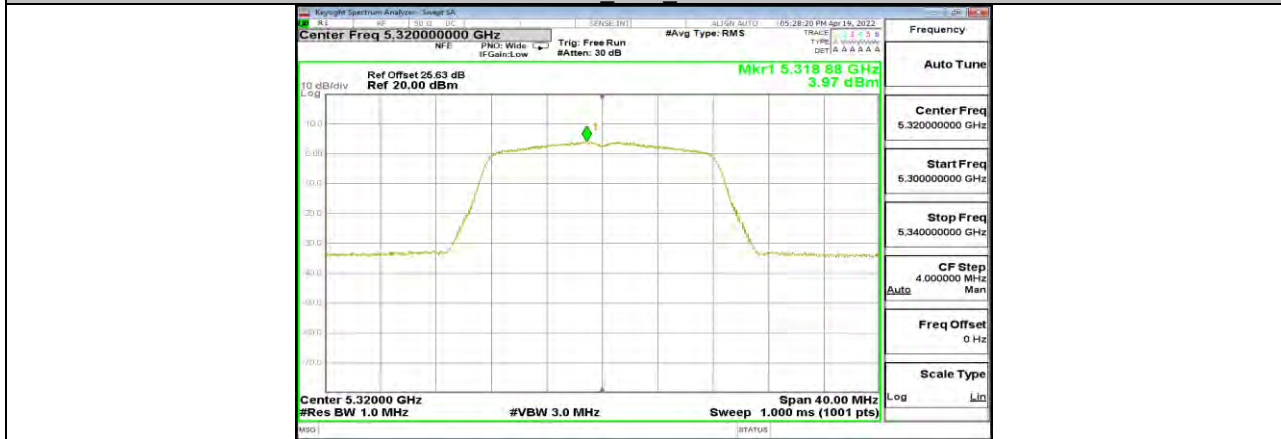
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11A Ant1 5280



11A Ant2 5280



11A Ant1 5320



11A Ant2 5320



11A Ant1 5500



11A Ant2 5500



11A Ant1 5580



11A Ant2 5580



11A Ant1 5700



11A Ant2 5700



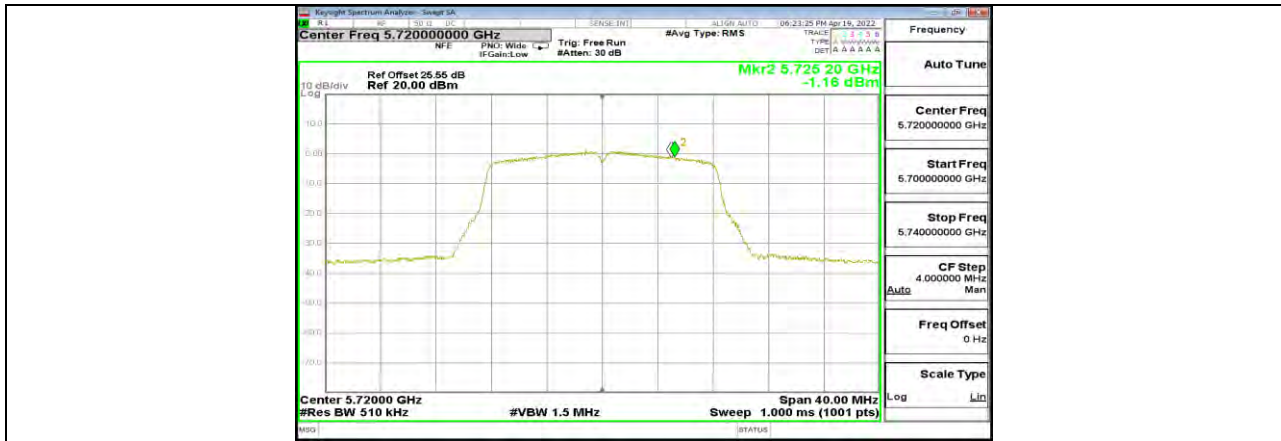
11A Ant1 5720 UNII-2C



11A Ant2 5720 UNII-2C



11A Ant1 5720 UNII-3



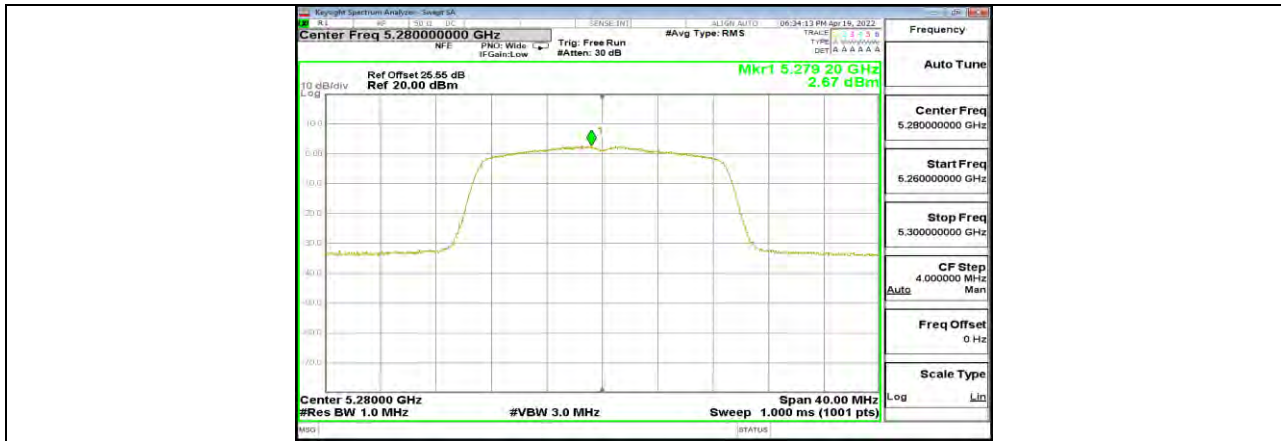
11A Ant2 5720 UNII-3



11N20MIMO Ant1 5260



11N20MIMO Ant2 5260



11N20MIMO Ant1 5280



11N20MIMO Ant2 5280



11N20MIMO Ant1 5320