

RF Test Data for RLAN(5.8G) (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

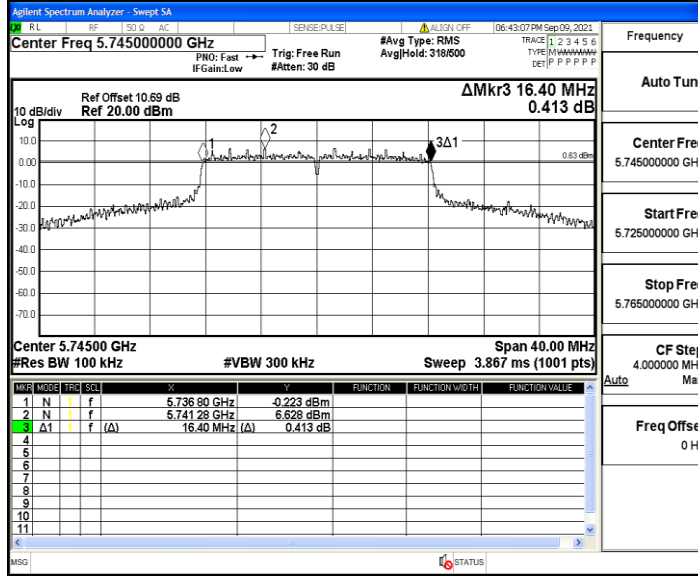
Appendix A1: Min emission bandwidth

Test Result

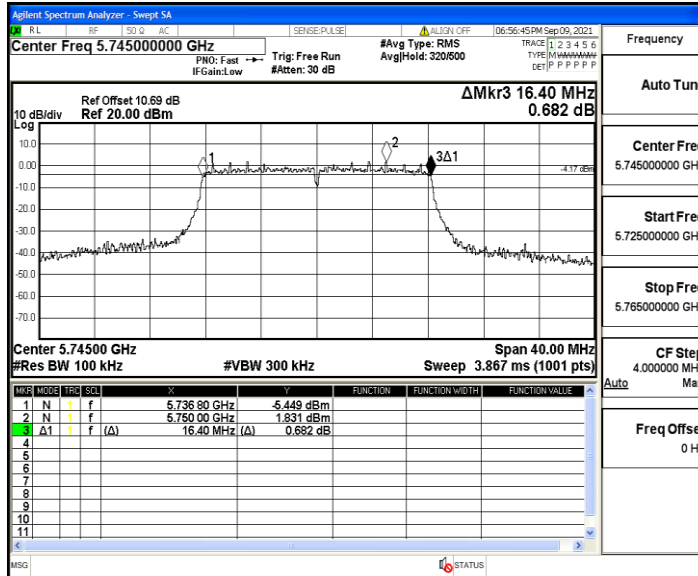
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.400	5736.800	5753.200	0.5	PASS
	Ant2	5745	16.400	5736.800	5753.200	0.5	PASS
	Ant1	5785	16.400	5776.800	5793.200	0.5	PASS
	Ant2	5785	16.360	5776.840	5793.200	0.5	PASS
	Ant1	5825	16.360	5816.840	5833.200	0.5	PASS
	Ant2	5825	16.120	5817.080	5833.200	0.5	PASS
11N20MIMO	Ant1	5745	17.240	5736.240	5753.480	0.5	PASS
	Ant2	5745	17.600	5736.200	5753.800	0.5	PASS
	Ant1	5785	17.600	5776.200	5793.800	0.5	PASS
	Ant2	5785	17.240	5776.600	5793.840	0.5	PASS
	Ant1	5825	17.360	5816.440	5833.800	0.5	PASS
	Ant2	5825	17.400	5816.440	5833.840	0.5	PASS
11N40MIMO	Ant1	5755	35.520	5737.080	5772.600	0.5	PASS
	Ant2	5755	35.280	5737.400	5772.680	0.5	PASS
	Ant1	5795	34.000	5777.400	5811.400	0.5	PASS
	Ant2	5795	35.280	5777.400	5812.680	0.5	PASS
11AC20MIMO	Ant1	5745	17.360	5736.200	5753.560	0.5	PASS
	Ant2	5745	17.600	5736.200	5753.800	0.5	PASS
	Ant1	5785	17.360	5776.440	5793.800	0.5	PASS
	Ant2	5785	17.360	5776.440	5793.800	0.5	PASS
	Ant1	5825	17.640	5816.200	5833.840	0.5	PASS
	Ant2	5825	16.960	5816.840	5833.800	0.5	PASS
11AC40MIMO	Ant1	5755	35.280	5737.400	5772.680	0.5	PASS
	Ant2	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant1	5795	35.280	5777.400	5812.680	0.5	PASS
	Ant2	5795	35.280	5777.400	5812.680	0.5	PASS
11AC80MIMO	Ant1	5775	75.360	5737.400	5812.760	0.5	PASS
	Ant2	5775	74.240	5738.520	5812.760	0.5	PASS

Test Graphs

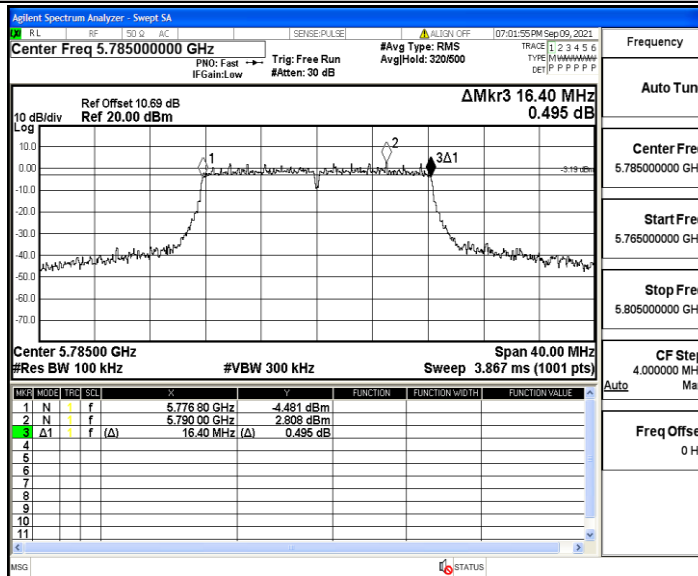
11A_Ant1_5745



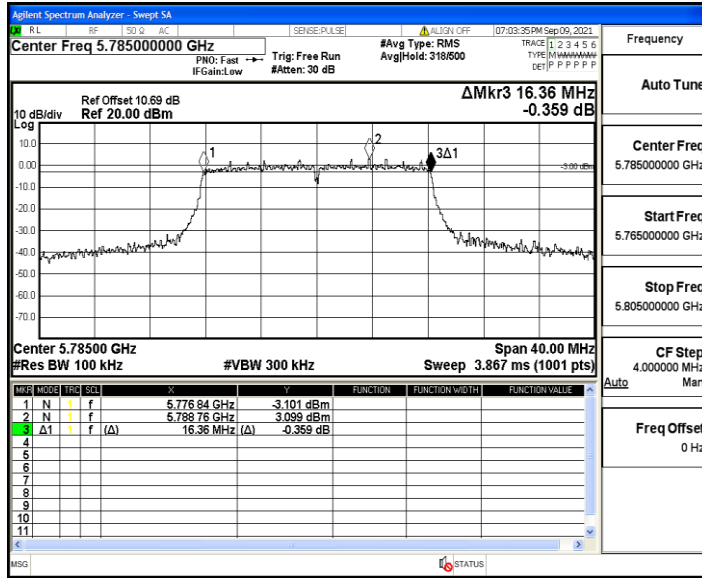
11A_Ant2_5745



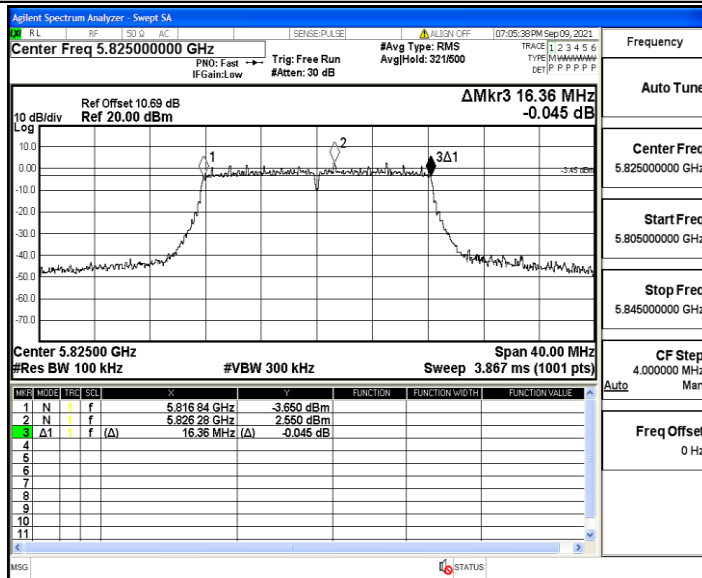
11A_Ant1_5785



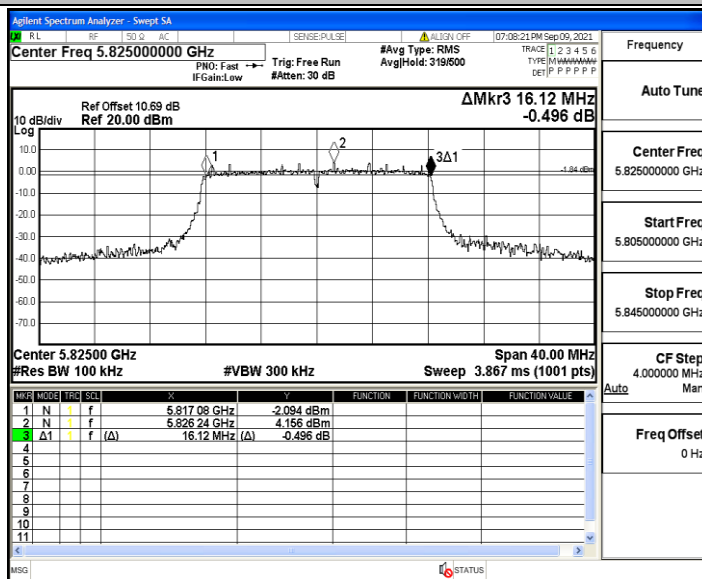
11A_Ant2_5785



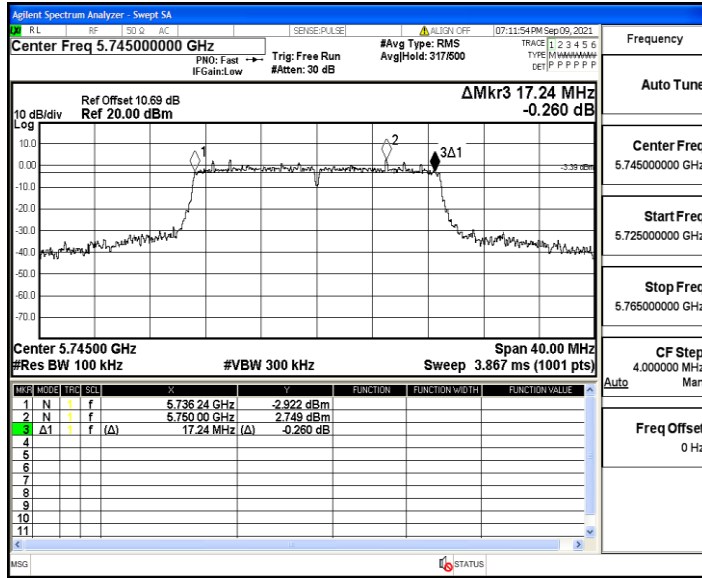
11A_Ant1_5825



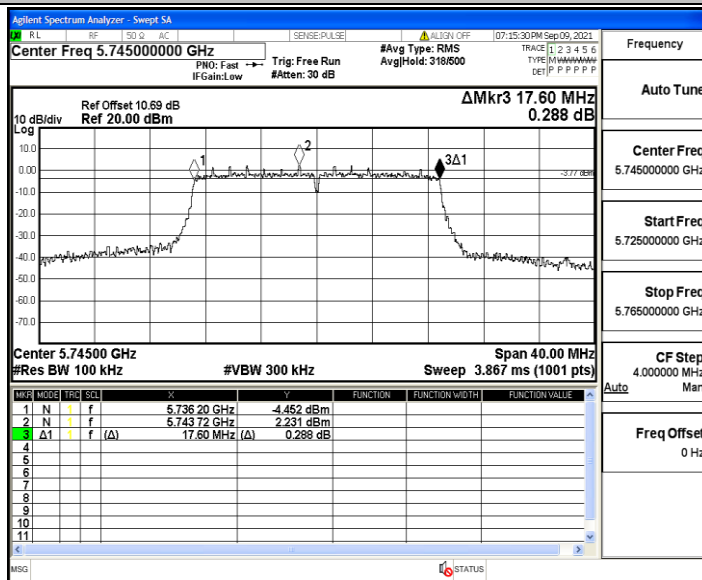
11A_Ant2_5825



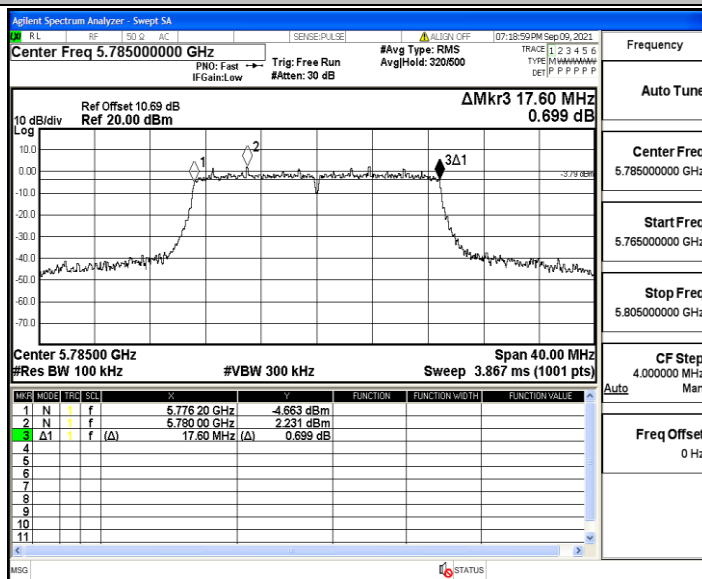
11N20MIMO_Ant1_5745



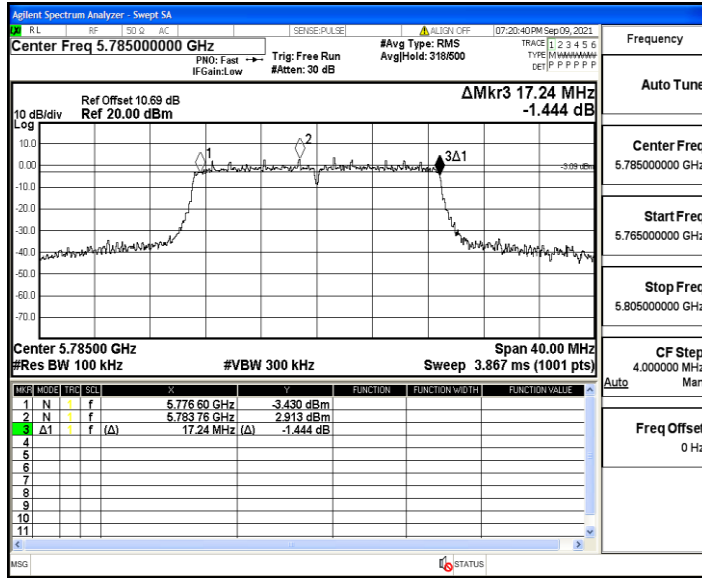
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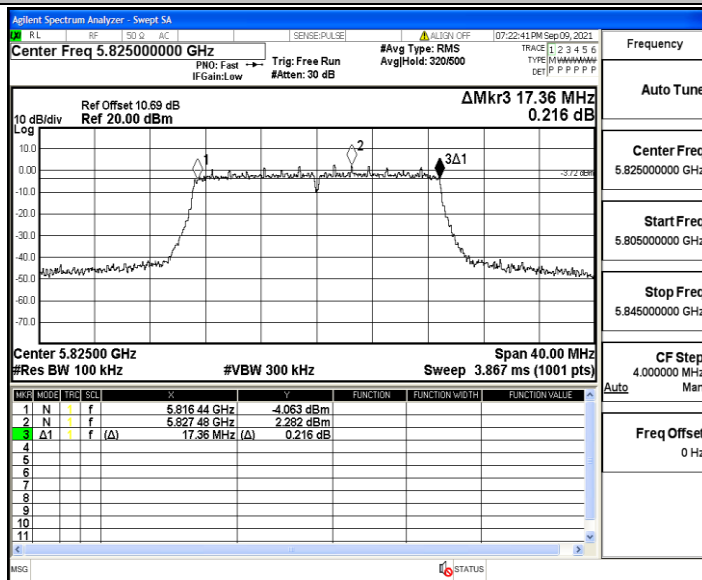
11N20MIMO_Ant1_5785



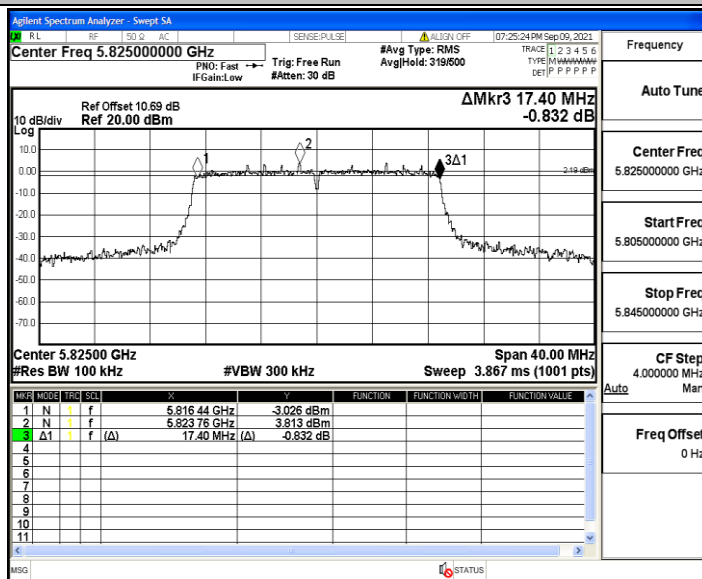
11N20MIMO_Ant2_5785



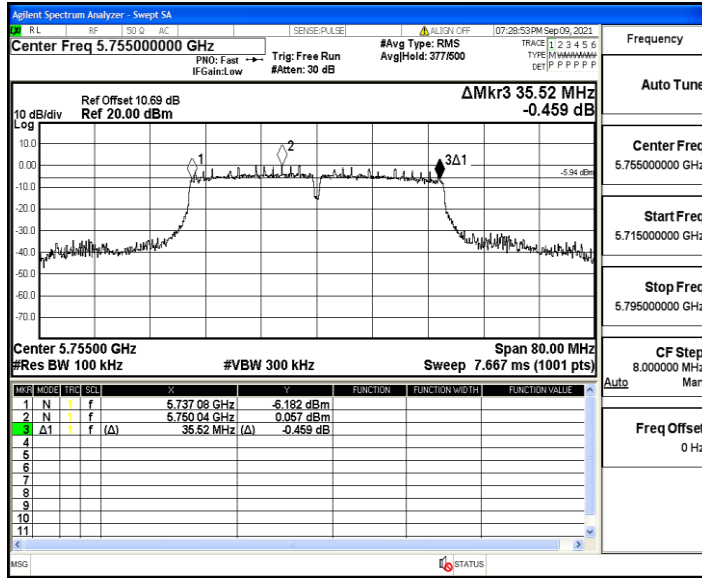
11N20MIMO_Ant1_5825



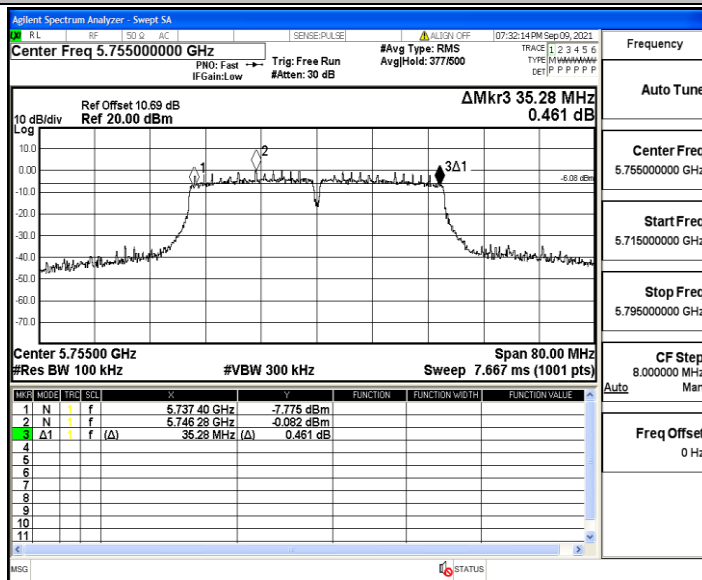
11N20MIMO_Ant2_5825



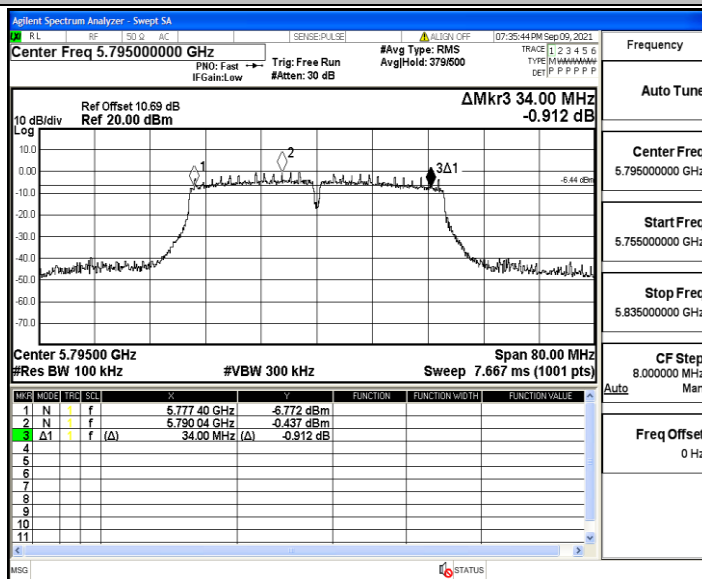
11N40MIMO_Ant1_5755



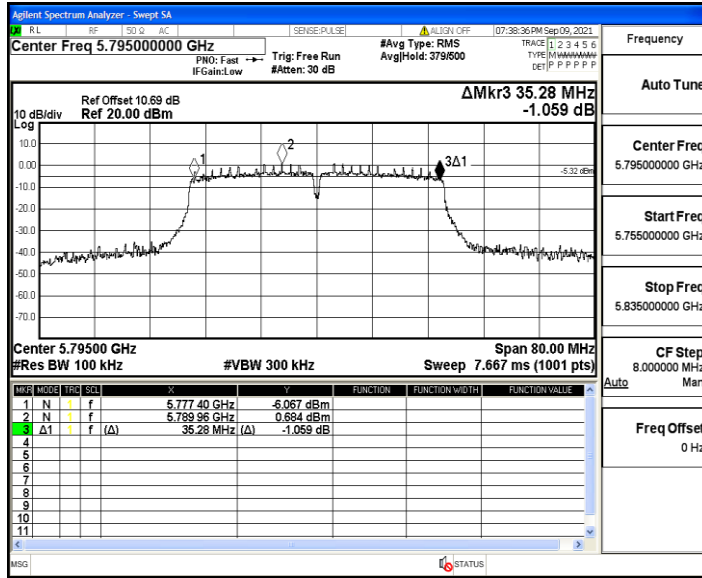
11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795

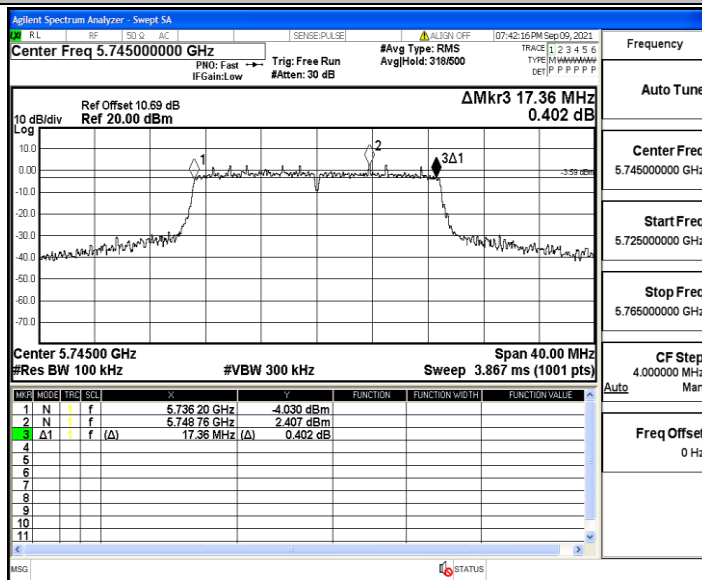


11N40MIMO_Ant2_5795



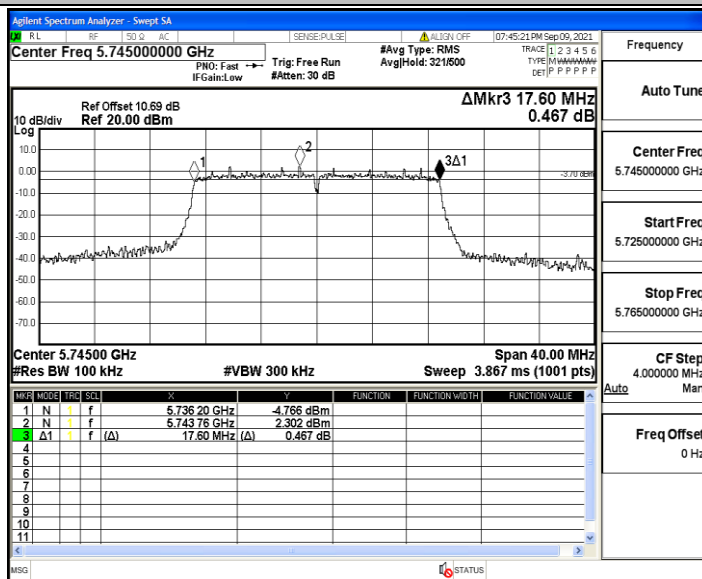
Frequency
Auto Tune
Center Freq 5.79500000 GHz
Start Freq 5.765000000 GHz
Stop Freq 5.835000000 GHz
CF Step 8.000000 MHz
Auto Man
Freq Offset 0 Hz

11AC20MIMO_Ant1_5745



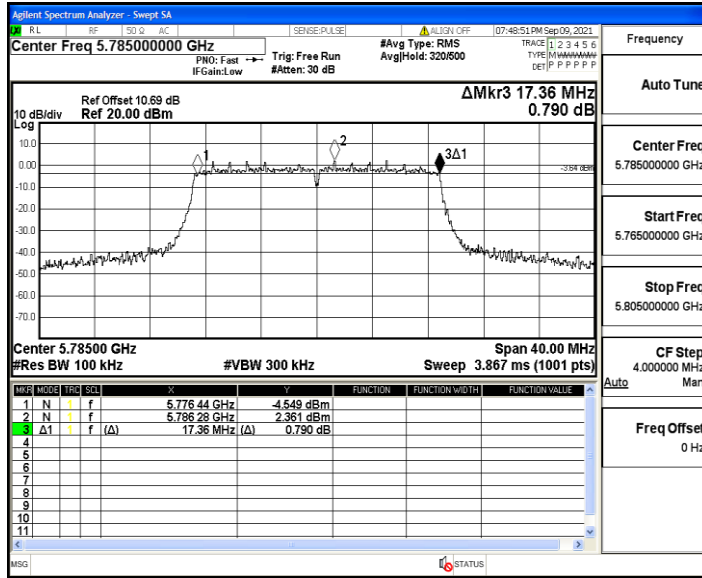
Frequency
Auto Tune
Center Freq 5.74500000 GHz
Start Freq 5.725000000 GHz
Stop Freq 5.765000000 GHz
CF Step 4.000000 MHz
Auto Man
Freq Offset 0 Hz

11AC20MIMO_Ant2_5745

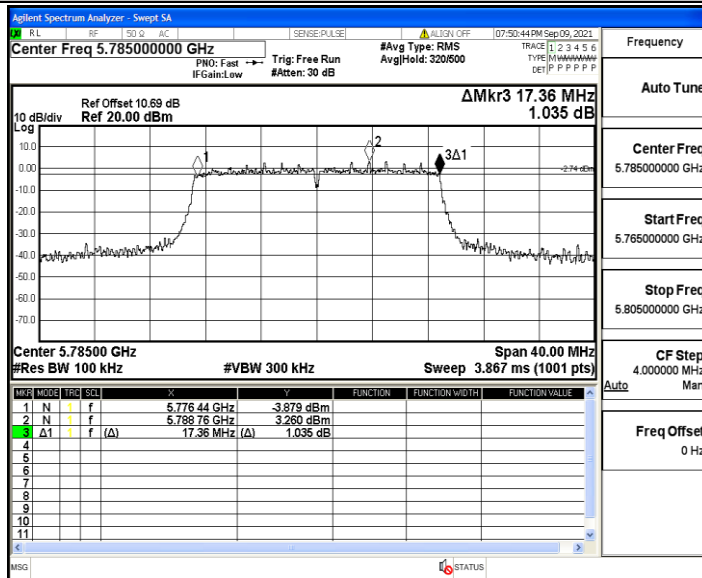


Frequency
Auto Tune
Center Freq 5.74500000 GHz
Start Freq 5.725000000 GHz
Stop Freq 5.765000000 GHz
CF Step 4.000000 MHz
Auto Man
Freq Offset 0 Hz

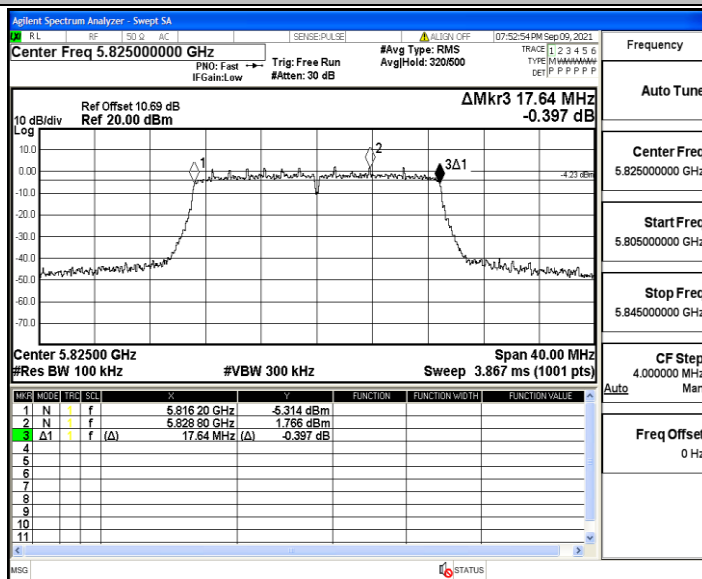
11AC20MIMO_Ant1_5785



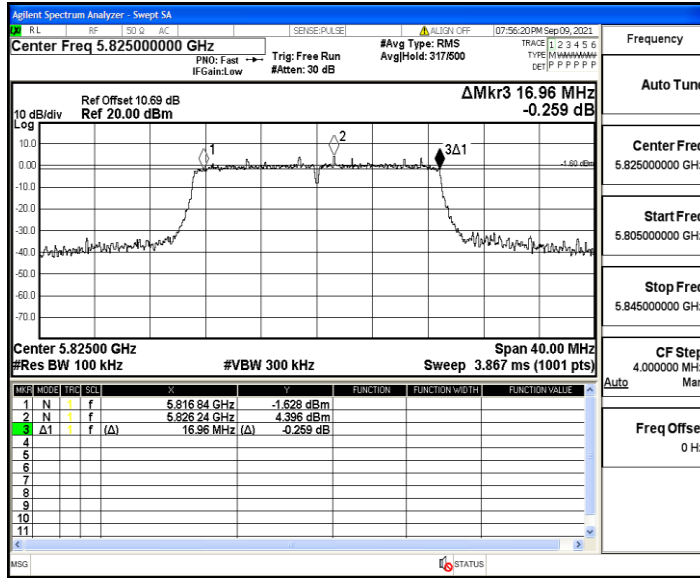
11AC20MIMO_Ant2_5785



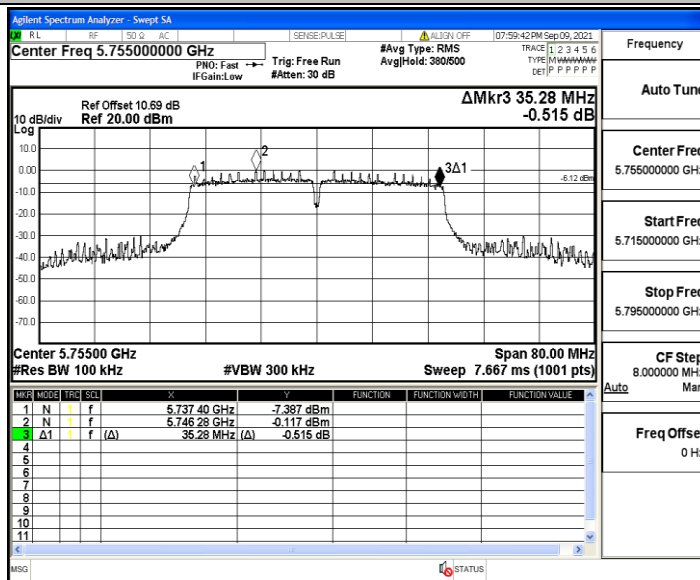
11AC20MIMO_Ant1_5825



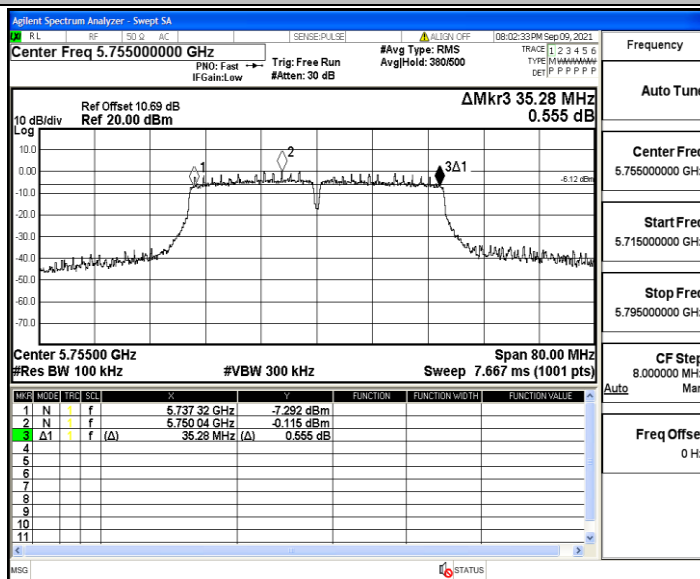
11AC20MIMO_Ant2_5825



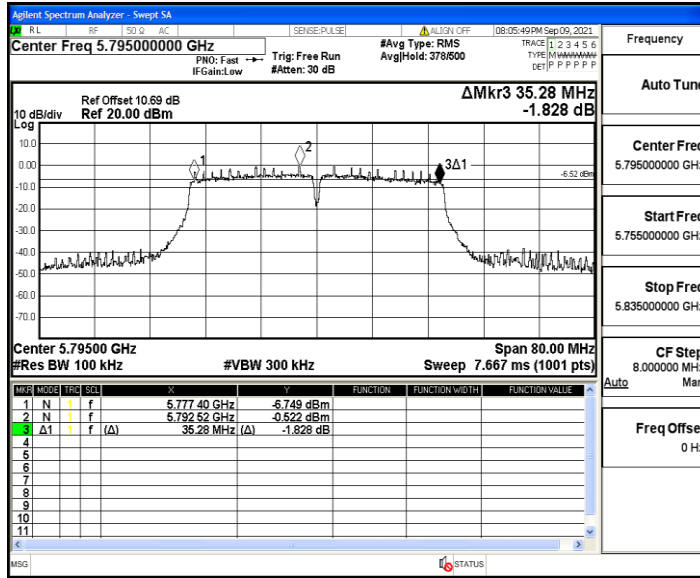
11AC40MIMO_Ant1_5755



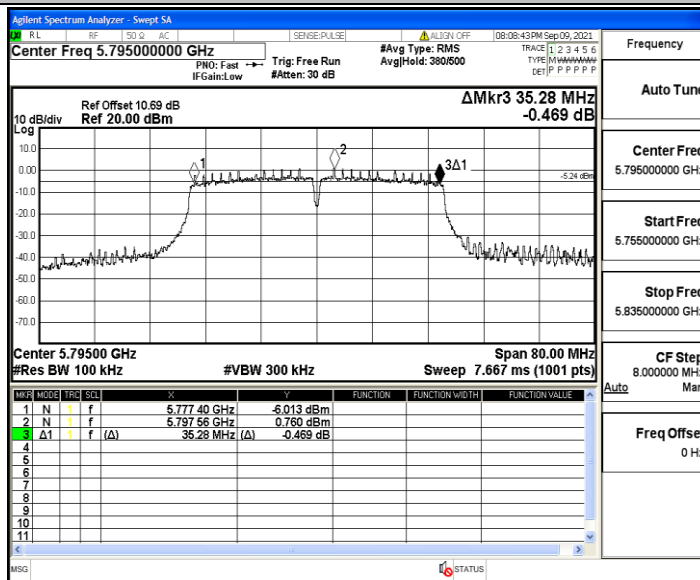
11AC40MIMO_Ant2_5755



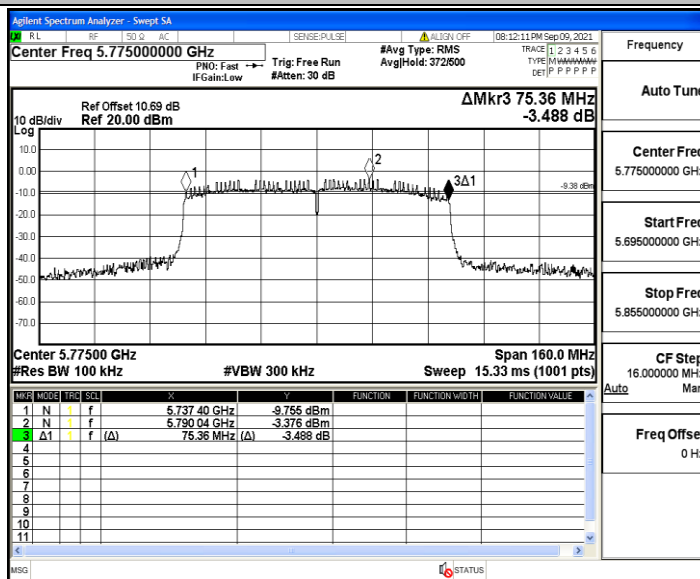
11AC40MIMO_Ant1_5795



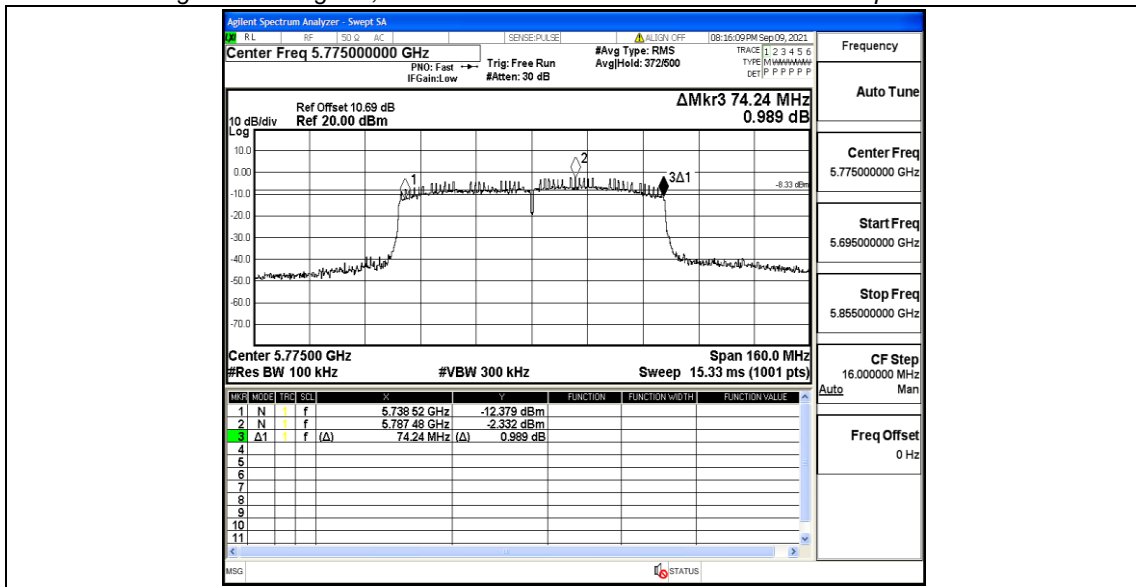
111AC40MIMO_Ant2_5795



111AC80MIMO_Ant1_5775



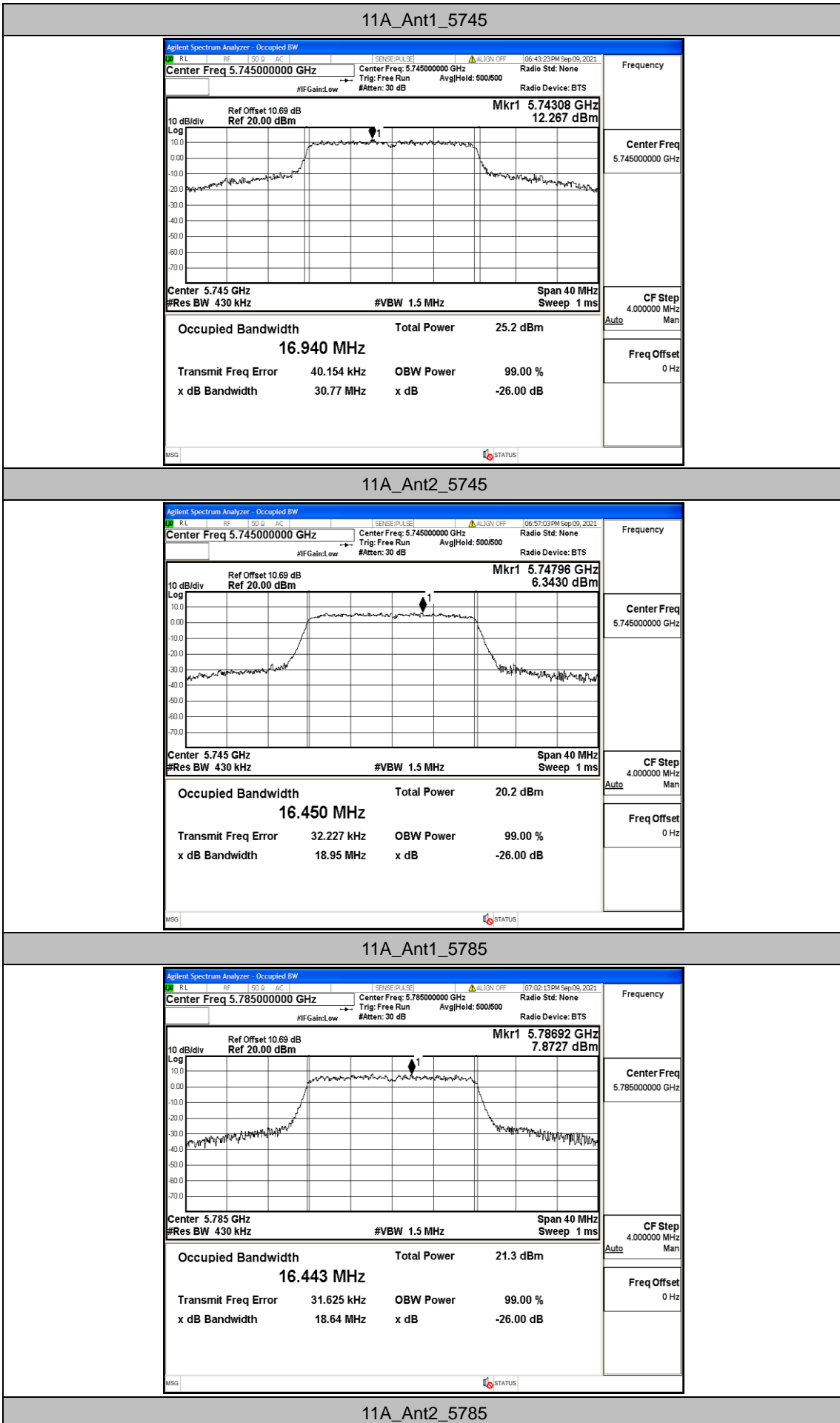
111AC80MIMO_Ant2_5775

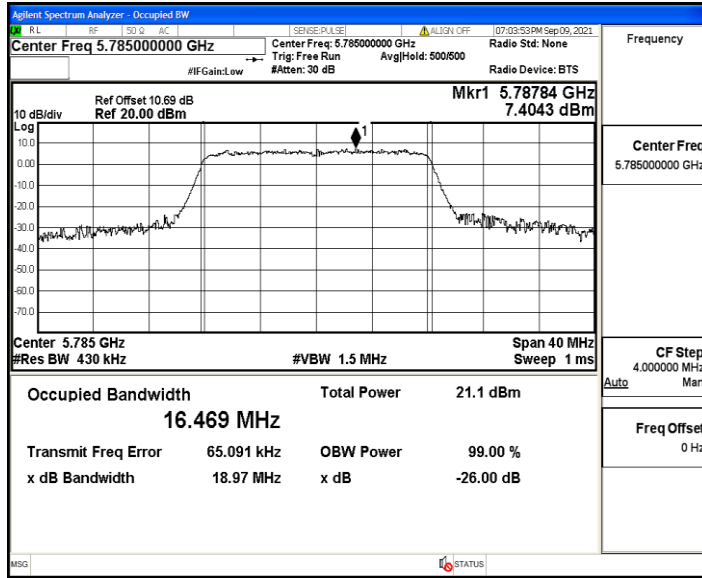


Appendix A2: Occupied channel bandwidth**Test Result**

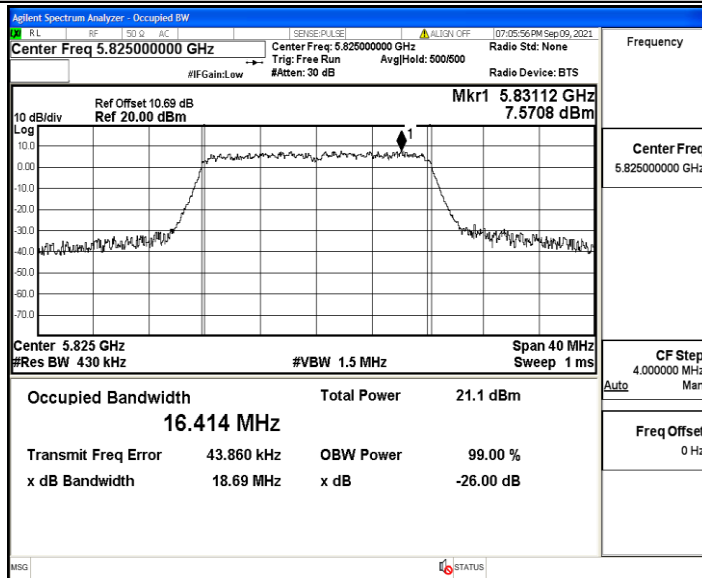
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.940	5736.570	5753.510	---	PASS
	Ant2	5745	16.450	5736.807	5753.257	---	PASS
	Ant1	5785	16.443	5776.810	5793.253	---	PASS
	Ant2	5785	16.469	5776.831	5793.300	---	PASS
	Ant1	5825	16.414	5816.837	5833.251	---	PASS
	Ant2	5825	16.496	5816.826	5833.322	---	PASS
11N20MIMO	Ant1	5745	17.653	5736.199	5753.852	---	PASS
	Ant2	5745	17.606	5736.229	5753.835	---	PASS
	Ant1	5785	17.615	5776.230	5793.845	---	PASS
	Ant2	5785	17.612	5776.251	5793.863	---	PASS
	Ant1	5825	17.607	5816.262	5833.869	---	PASS
	Ant2	5825	17.634	5816.248	5833.882	---	PASS
11N40MIMO	Ant1	5755	36.596	5736.780	5773.376	---	PASS
	Ant2	5755	36.655	5736.762	5773.417	---	PASS
	Ant1	5795	36.481	5776.777	5813.258	---	PASS
	Ant2	5795	36.411	5776.870	5813.281	---	PASS
11AC20MIMO	Ant1	5745	17.644	5736.199	5753.843	---	PASS
	Ant2	5745	17.599	5736.227	5753.826	---	PASS
	Ant1	5785	17.608	5776.240	5793.848	---	PASS
	Ant2	5785	17.598	5776.257	5793.855	---	PASS
	Ant1	5825	17.601	5816.255	5833.856	---	PASS
	Ant2	5825	17.635	5816.246	5833.881	---	PASS
11AC40MIMO	Ant1	5755	36.484	5736.821	5773.305	---	PASS
	Ant2	5755	36.382	5736.902	5773.284	---	PASS
	Ant1	5795	36.270	5776.889	5813.159	---	PASS
	Ant2	5795	36.277	5777.014	5813.291	---	PASS
11AC80MIMO	Ant1	5775	74.718	5737.725	5812.443	---	PASS
	Ant2	5775	74.686	5738.032	5812.718	---	PASS

Test Graphs

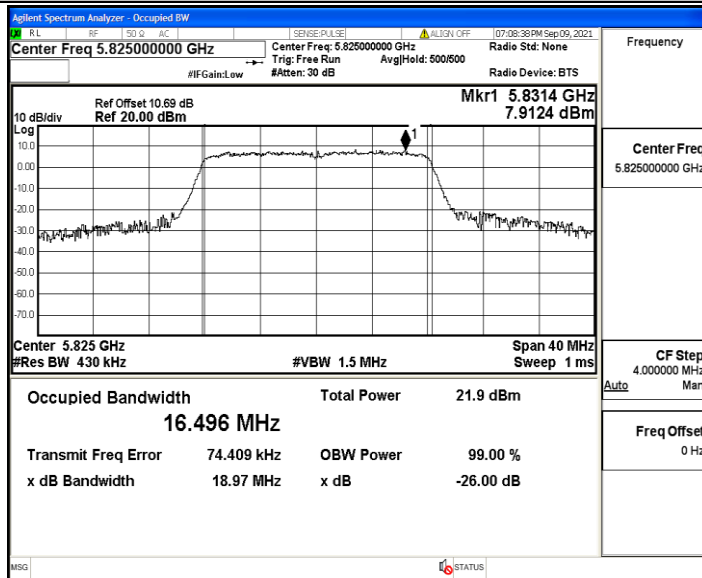




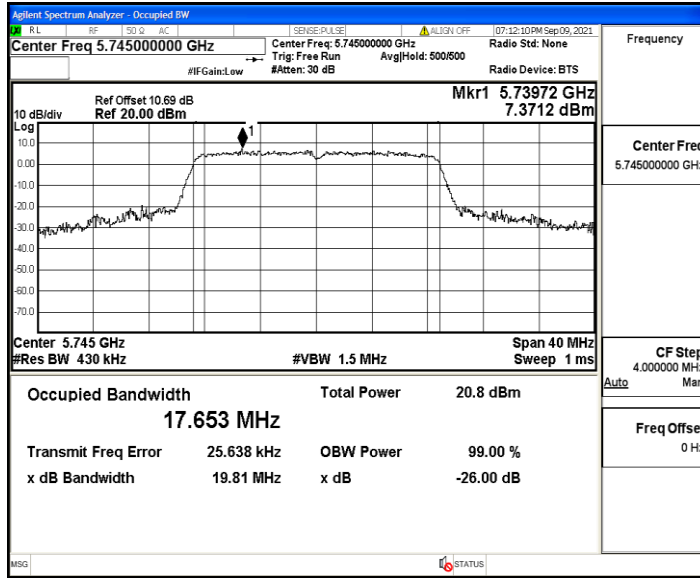
11A_Ant1_5825



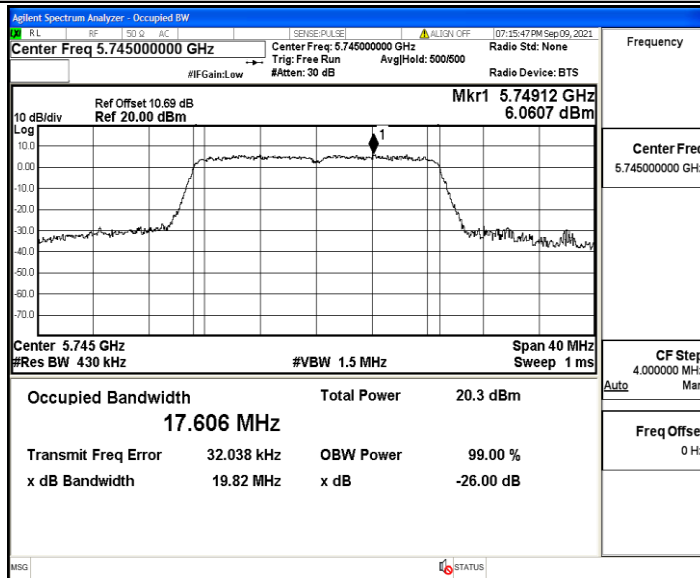
11A_Ant2_5825



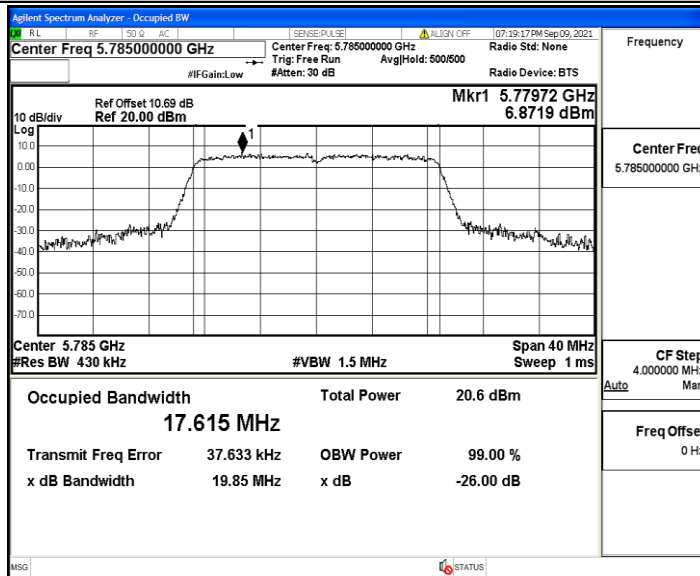
11N20MIMO_Ant1_5745



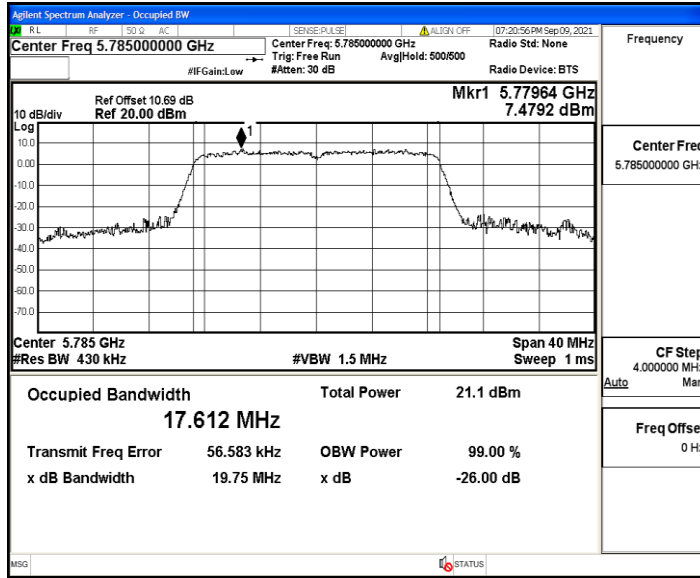
11N20MIMO_Ant2_5745



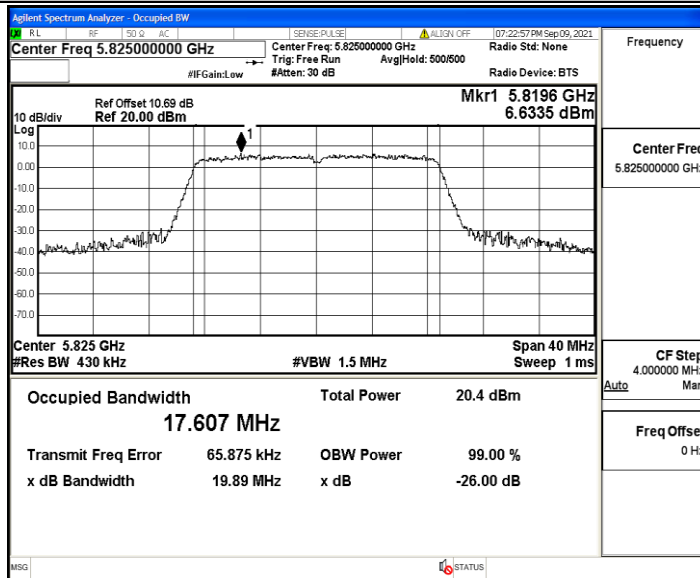
11N20MIMO_Ant1_5785



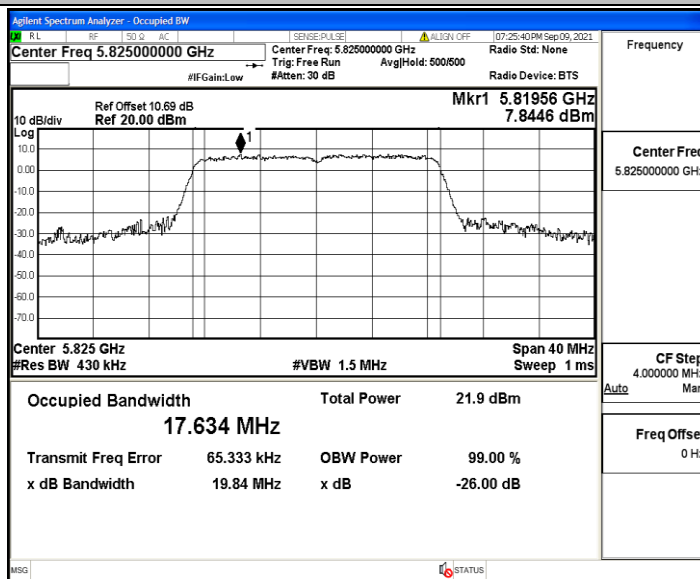
11N20MIMO_Ant2_5785



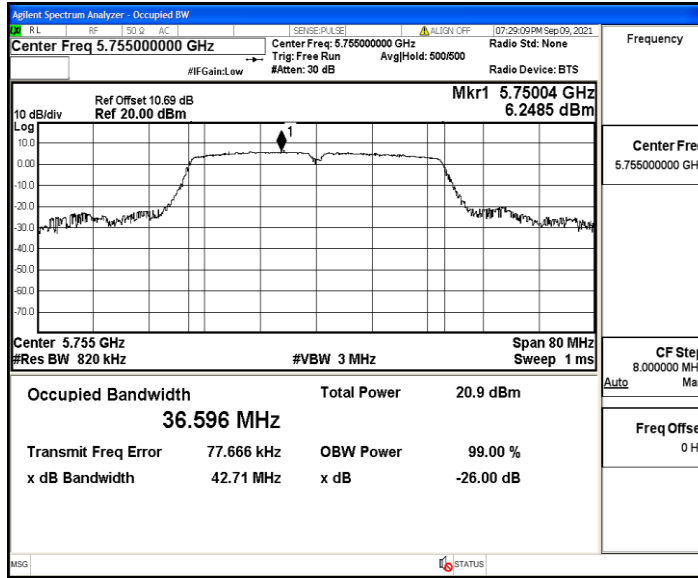
11N20MIMO_Ant1_5825



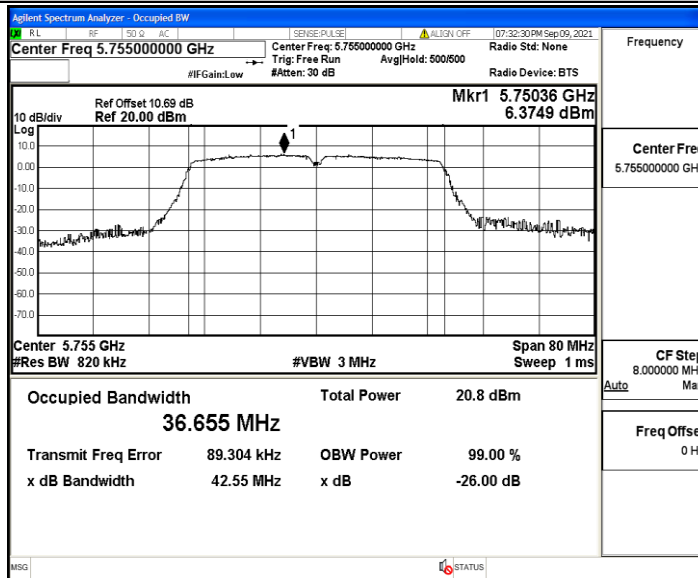
11N20MIMO_Ant2_5825



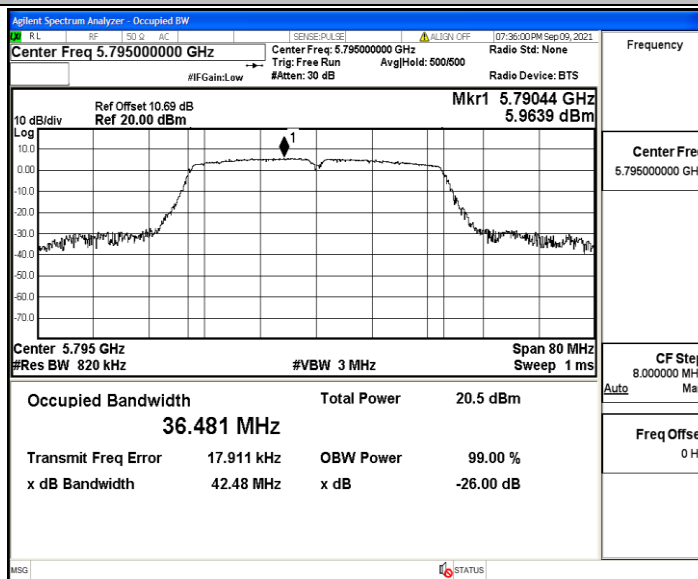
11N40MIMO_Ant1_5755



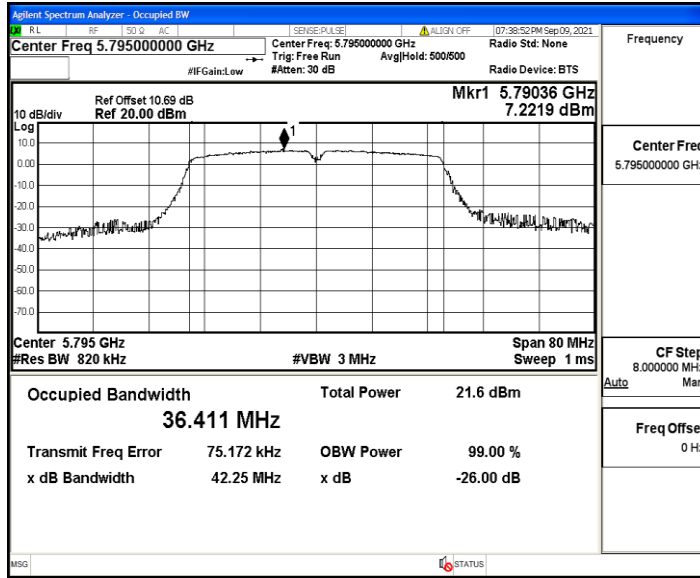
11N40MIMO_Ant2_5755



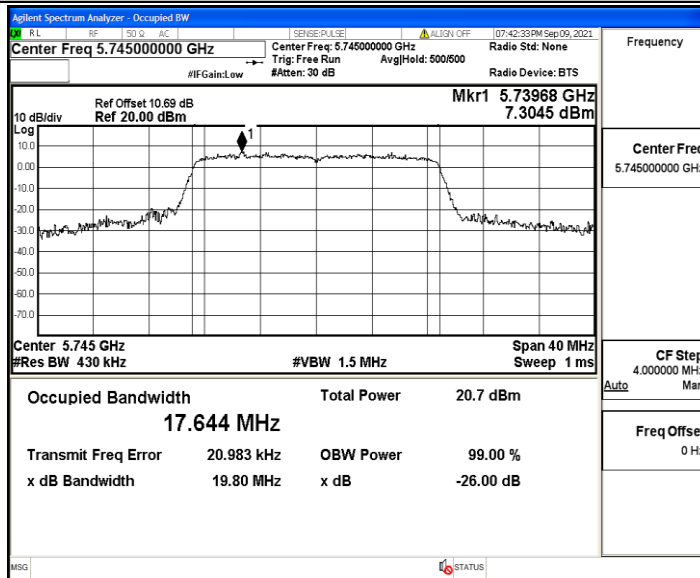
11N40MIMO_Ant1_5795



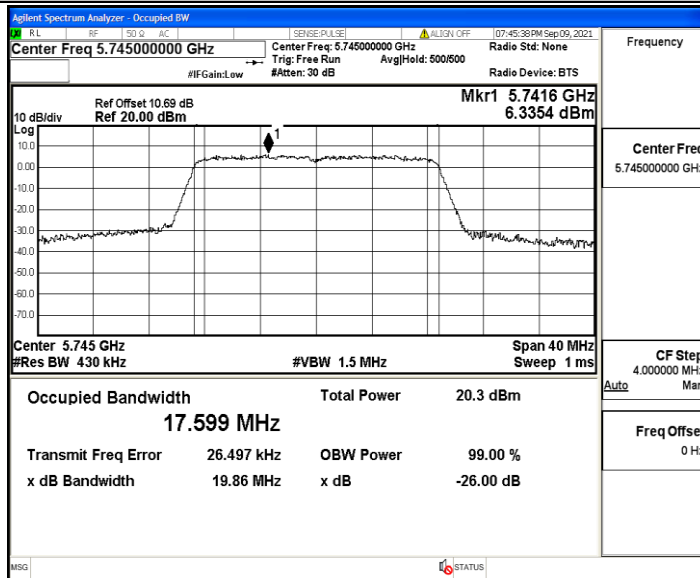
11N40MIMO_Ant2_5795



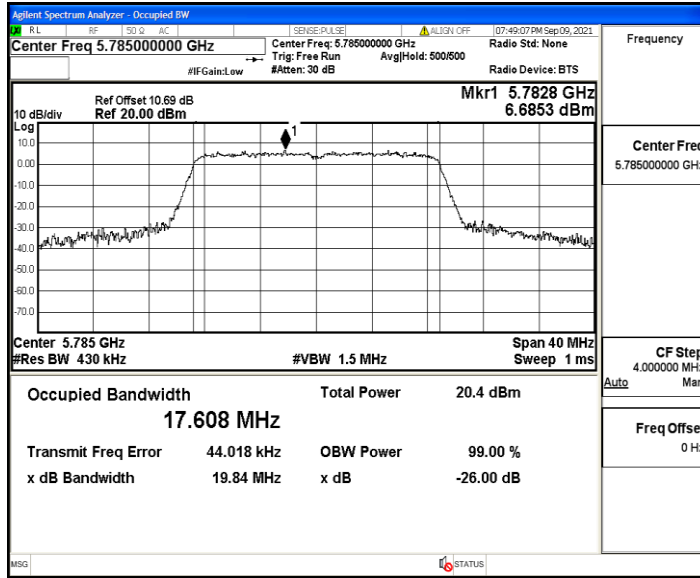
11AC20MIMO_Ant1_5745



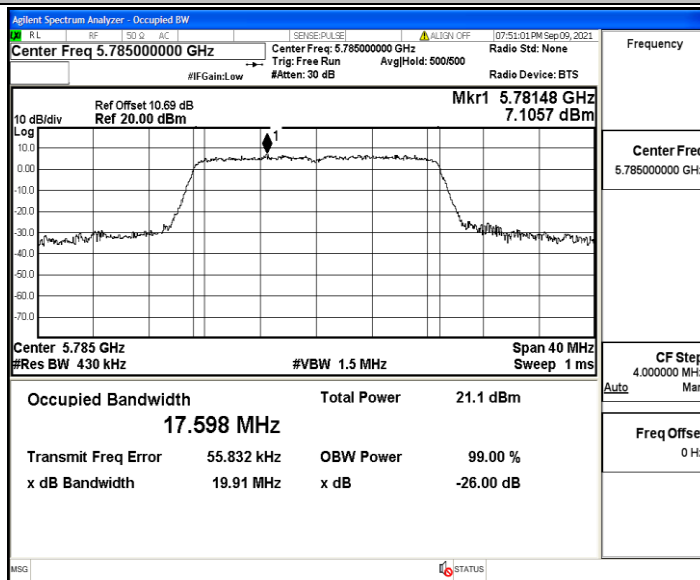
11AC20MIMO_Ant2_5745



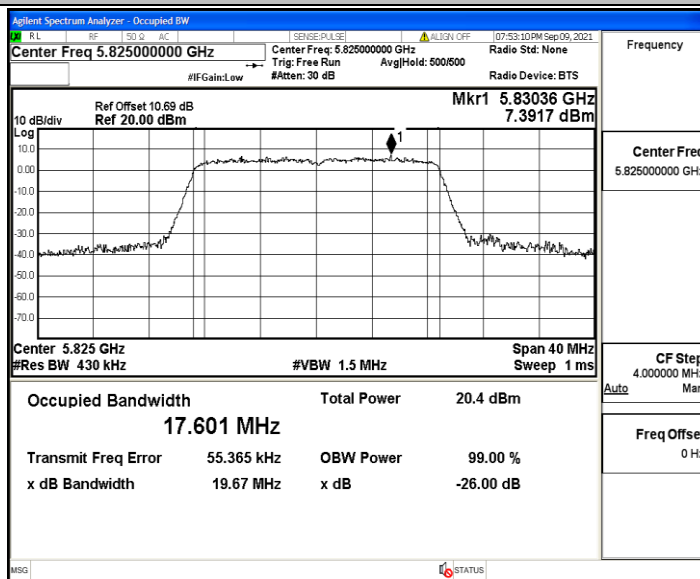
11AC20MIMO_Ant1_5785



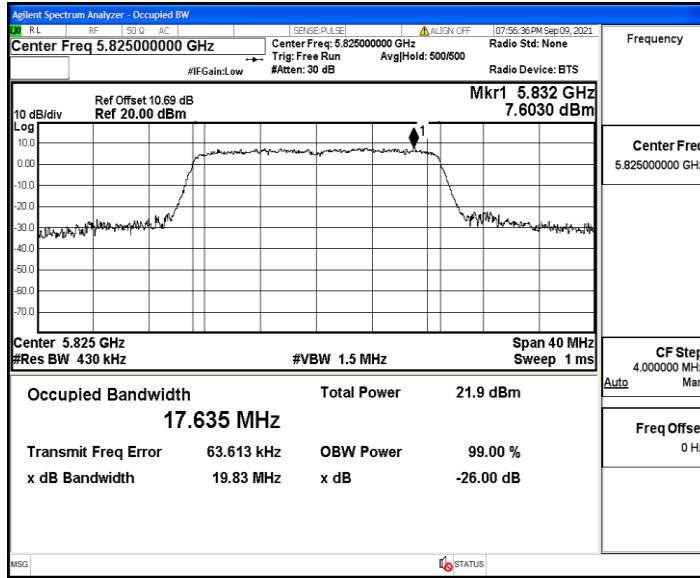
11AC20MIMO_Ant2_5785



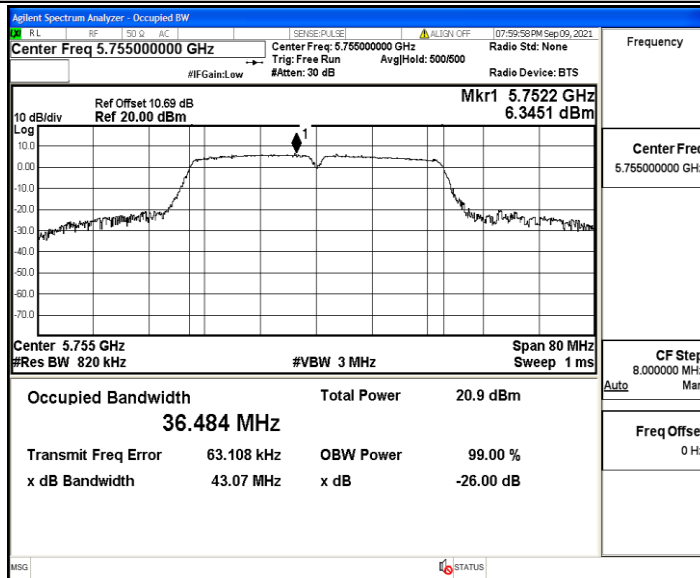
11AC20MIMO_Ant1_5825



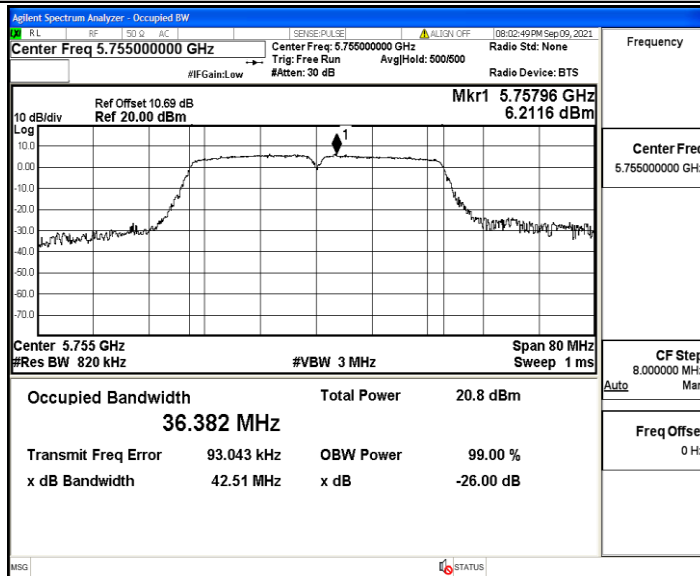
11AC20MIMO_Ant2_5825



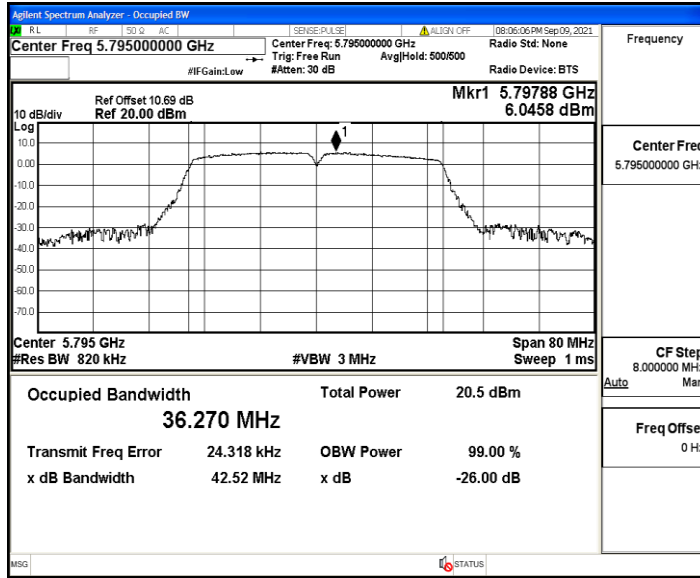
11AC40MIMO_Ant1_5755



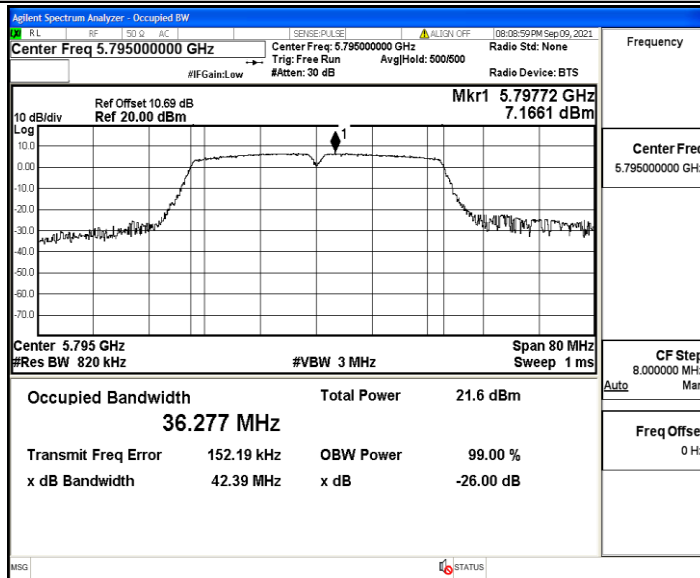
11AC40MIMO_Ant2_5755



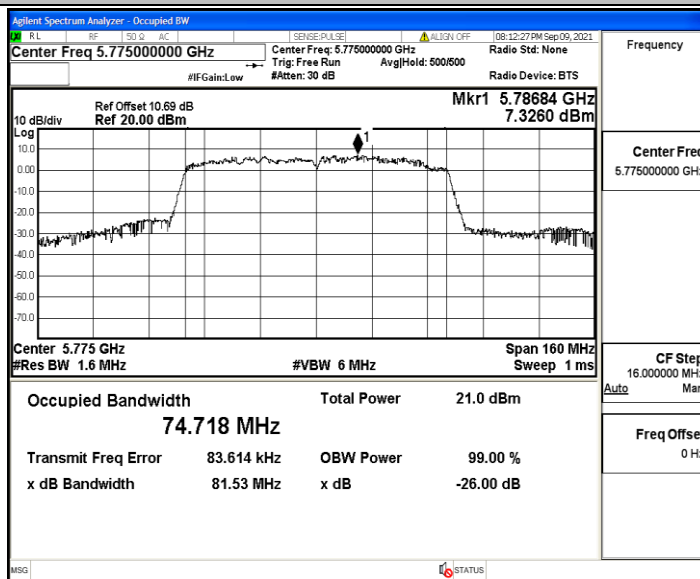
11AC40MIMO_Ant1_5795



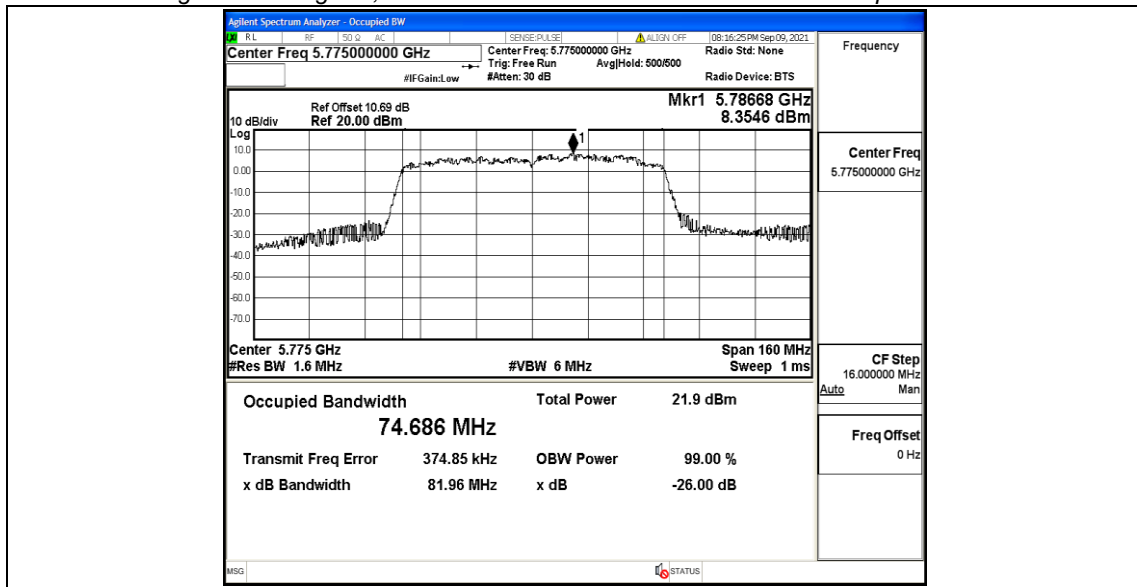
11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	13.83	≤30	PASS
	Ant2	5745	13.54	≤30	PASS
	Ant1	5785	14.19	≤30	PASS
	Ant2	5785	14.33	≤30	PASS
	Ant1	5825	13.92	≤30	PASS
	Ant2	5825	15.38	≤30	PASS
11N20MIMO	Ant1	5745	14.20	≤30	PASS
	Ant2	5745	13.54	≤30	PASS
	total	5745	16.9	≤29.07	PASS
	Ant1	5785	14.21	≤30	PASS
	Ant2	5785	14.41	≤30	PASS
	total	5785	17.3	≤29.07	PASS
	Ant1	5825	14.06	≤30	PASS
	Ant2	5825	15.28	≤30	PASS
	total	5825	17.7	≤29.07	PASS
11N40MIMO	Ant1	5755	13.53	≤30	PASS
	Ant2	5755	13.62	≤30	PASS
	total	5755	16.6	≤29.07	PASS
	Ant1	5795	13.33	≤30	PASS
	Ant2	5795	14.49	≤30	PASS
	total	5795	17.0	≤29.07	PASS
11AC20MIMO	Ant1	5745	14.01	≤30	PASS
	Ant2	5745	13.73	≤30	PASS
	total	5745	16.9	≤29.07	PASS
	Ant1	5785	14.04	≤30	PASS
	Ant2	5785	14.46	≤30	PASS
	total	5785	17.3	≤29.07	PASS
	Ant1	5825	13.92	≤30	PASS
	Ant2	5825	15.05	≤30	PASS
	total	5825	17.5	≤29.07	PASS
11AC40MIMO	Ant1	5755	13.90	≤30	PASS
	Ant2	5755	13.65	≤30	PASS
	total	5755	16.8	≤29.07	PASS
	Ant1	5795	13.32	≤30	PASS
	Ant2	5795	14.44	≤30	PASS
	total	5795	16.9	≤29.07	PASS
11AC80MIMO	Ant1	5775	13.18	≤30	PASS
	Ant2	5775	13.55	≤30	PASS
	total	5775	16.4	≤29.07	PASS

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

Appendix C: Maximum power spectral density

Test Result

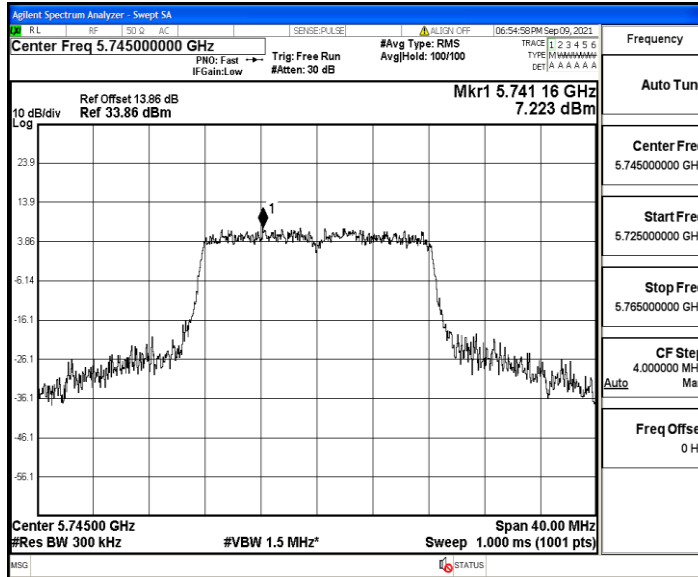
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	7.22	≤30	PASS
	Ant2	5745	6.85	≤30	PASS
	Ant1	5785	7.72	≤30	PASS
	Ant2	5785	8	≤30	PASS
	Ant1	5825	8	≤30	PASS
	Ant2	5825	9.16	≤30	PASS
11N20MIMO	Ant1	5745	7.84	≤30	PASS
	Ant2	5745	7.01	≤30	PASS
	total	5745	10.46	≤29.07	PASS
	Ant1	5785	7.44	≤30	PASS
	Ant2	5785	7.82	≤30	PASS
	total	5785	10.64	≤29.07	PASS
	Ant1	5825	7.14	≤30	PASS
	Ant2	5825	8.54	≤30	PASS
	total	5825	10.91	≤29.07	PASS
11N40MIMO	Ant1	5755	5.15	≤30	PASS
	Ant2	5755	4.34	≤30	PASS
	total	5755	7.77	≤29.07	PASS
	Ant1	5795	4.87	≤30	PASS
	Ant2	5795	5.52	≤30	PASS
	total	5795	8.22	≤29.07	PASS
11AC20MIMO	Ant1	5745	7.23	≤30	PASS
	Ant2	5745	6.71	≤30	PASS
	total	5745	9.99	≤29.07	PASS
	Ant1	5785	7.44	≤30	PASS
	Ant2	5785	7.22	≤30	PASS
	total	5785	10.34	≤29.07	PASS
	Ant1	5825	6.63	≤30	PASS
	Ant2	5825	8.52	≤30	PASS
	total	5825	10.69	≤29.07	PASS
11AC40MIMO	Ant1	5755	4.89	≤30	PASS
	Ant2	5755	4.85	≤30	PASS
	total	5755	7.88	≤29.07	PASS
	Ant1	5795	5.02	≤30	PASS
	Ant2	5795	5.49	≤30	PASS
	total	5795	8.27	≤29.07	PASS
11AC80MIMO	Ant1	5775	2.82	≤30	PASS
	Ant2	5775	3.2	≤30	PASS
	total	5775	6.02	≤29.07	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

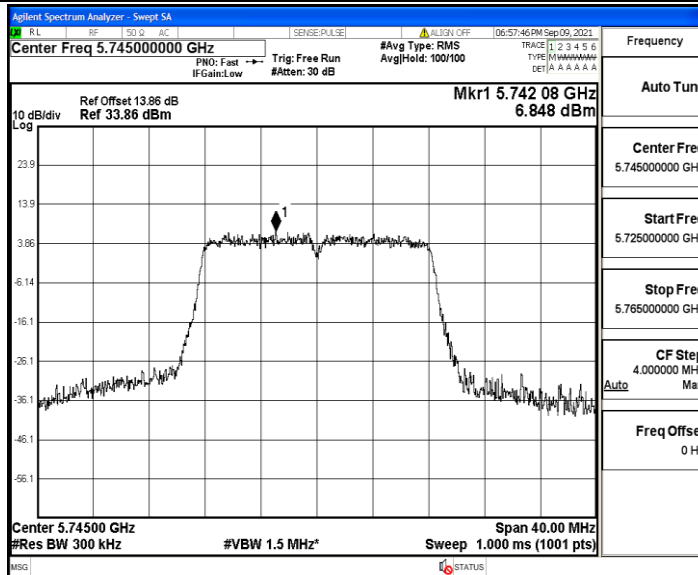
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

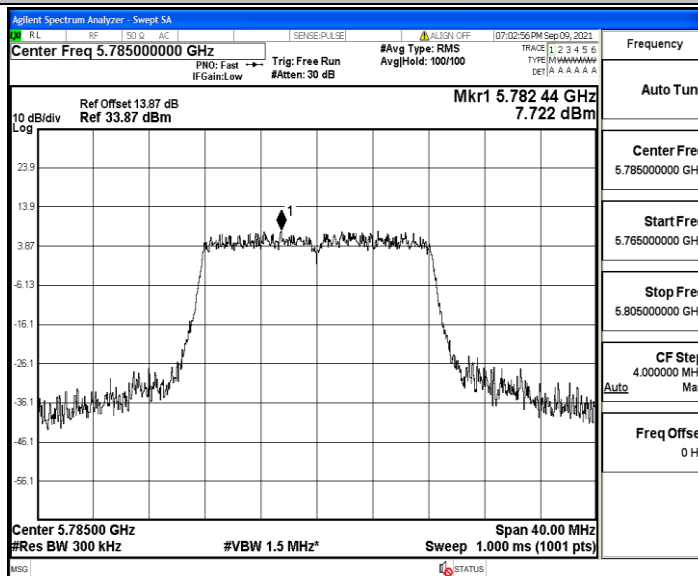
11A_Ant1_5745



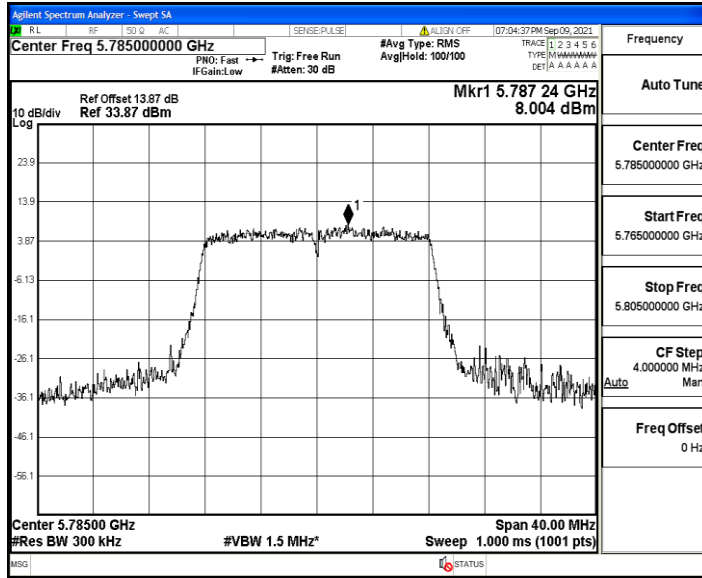
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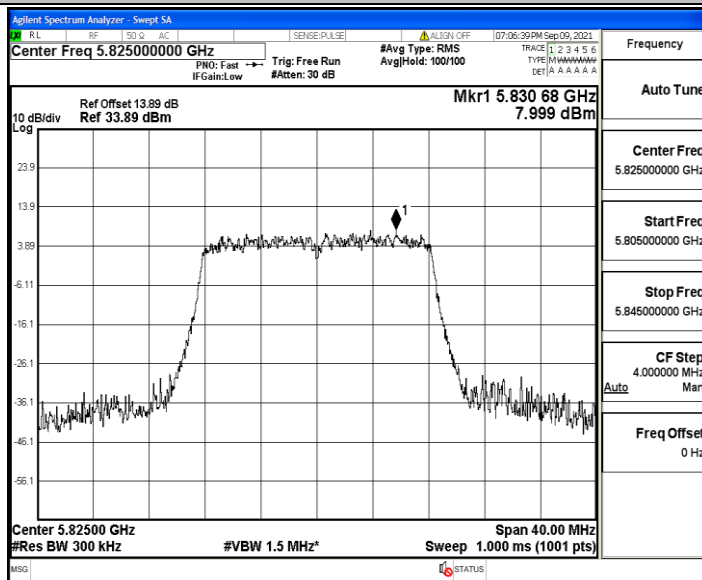
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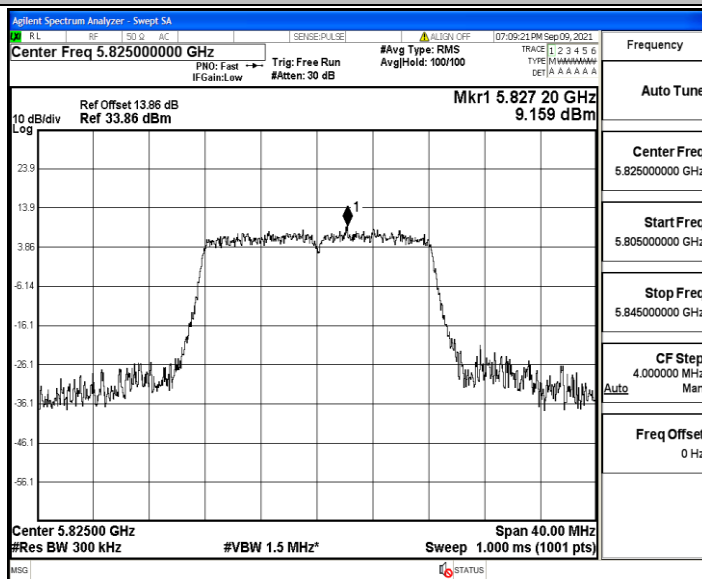
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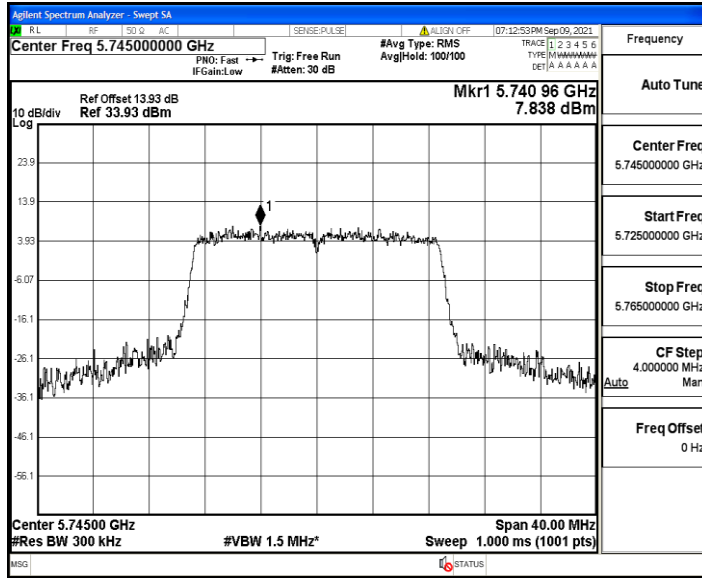
11A_Ant1_5825



11A_Ant2_5825

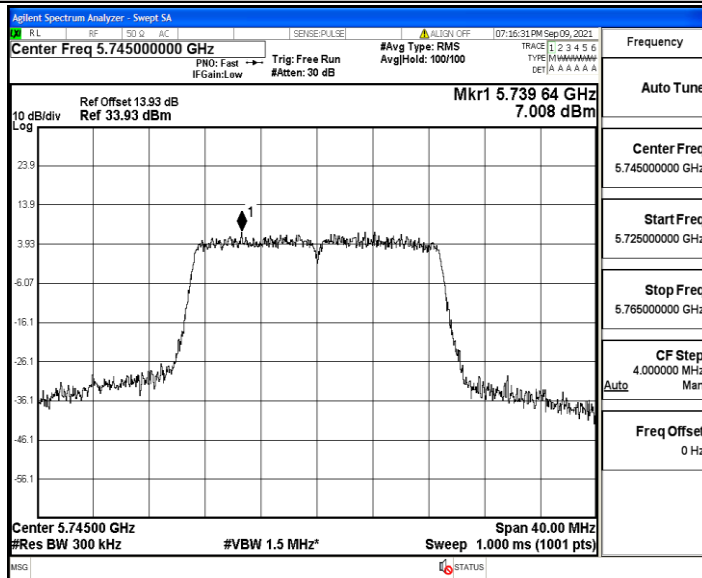


11N20MIMO_Ant1_5745



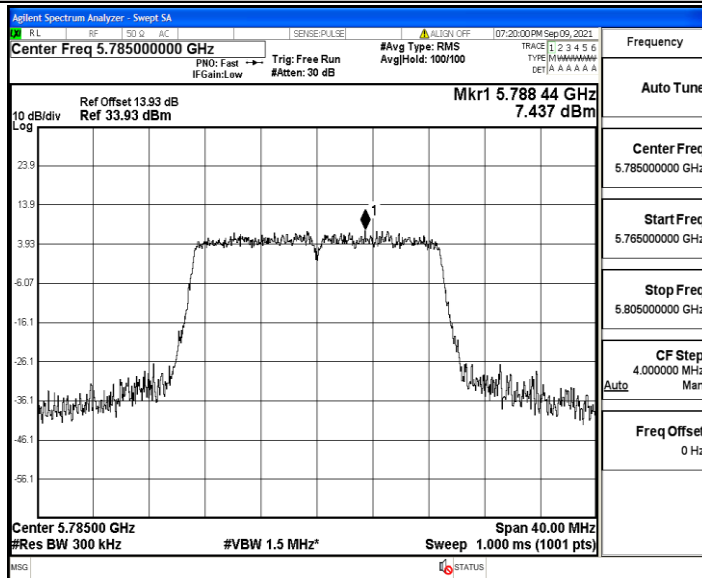
Frequency
Auto Tune
Center Freq 5.745000000 GHz
Start Freq 5.725000000 GHz
Stop Freq 5.765000000 GHz
CF Step 4.000000 MHz Auto
Freq Offset 0 Hz

11N20MIMO_Ant2_5745



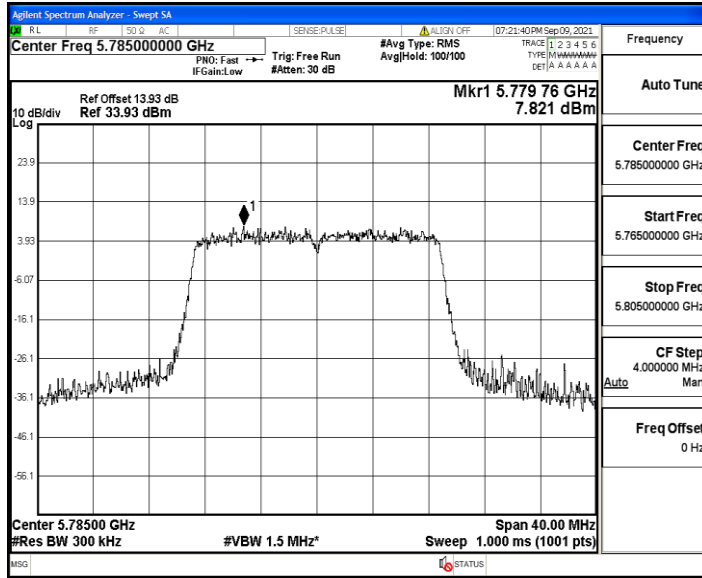
Frequency
Auto Tune
Center Freq 5.745000000 GHz
Start Freq 5.725000000 GHz
Stop Freq 5.765000000 GHz
CF Step 4.000000 MHz Auto
Freq Offset 0 Hz

11N20MIMO_Ant1_5785

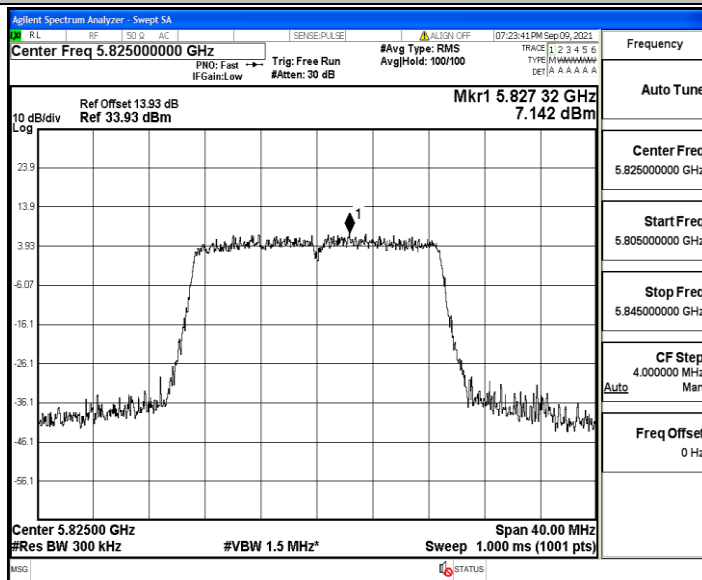


Frequency
Auto Tune
Center Freq 5.785000000 GHz
Start Freq 5.765000000 GHz
Stop Freq 5.805000000 GHz
CF Step 4.000000 MHz Auto
Freq Offset 0 Hz

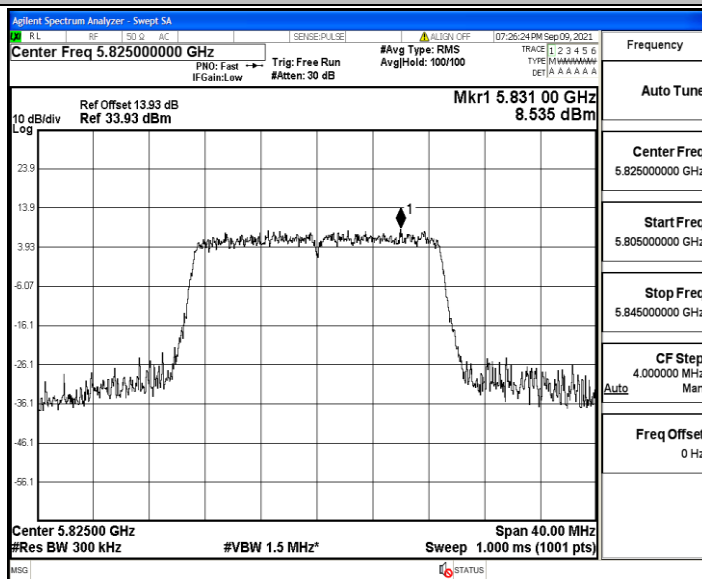
11N20MIMO_Ant2_5785



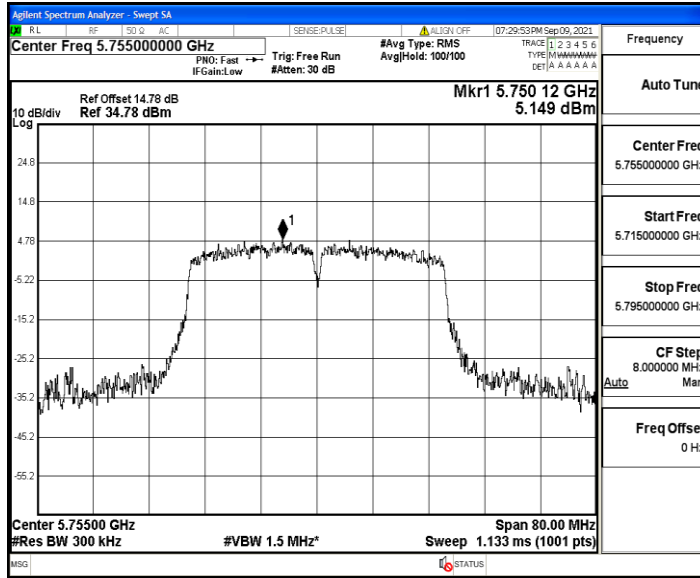
11N20MIMO_Ant1_5825



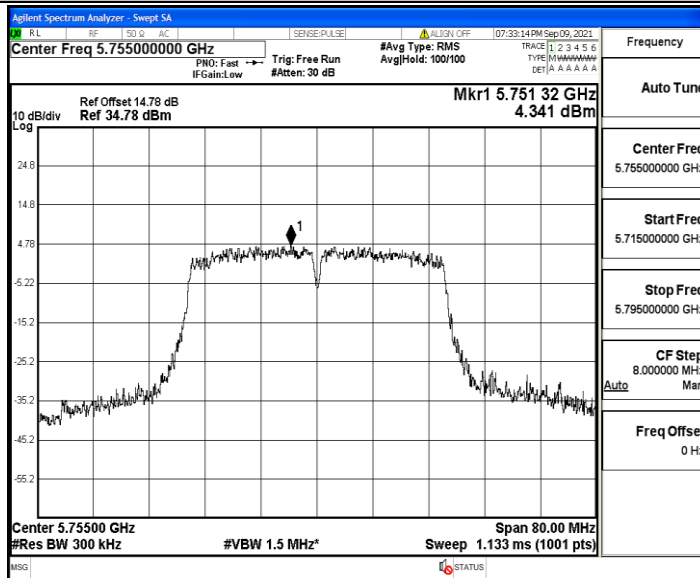
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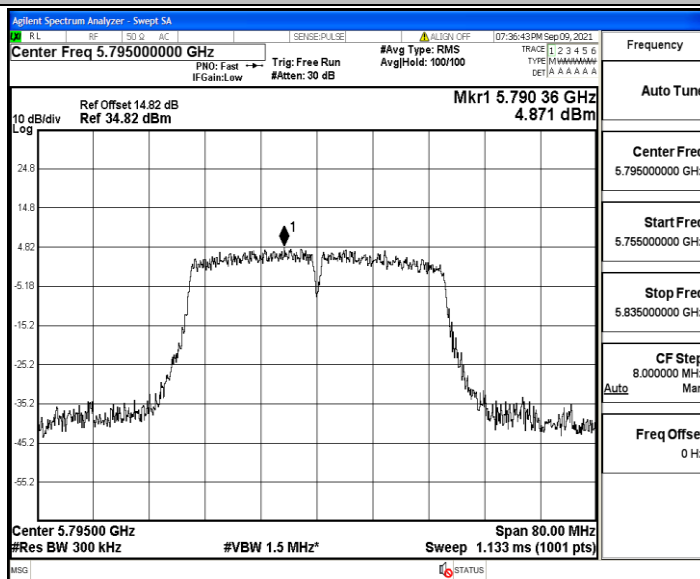
11N40MIMO_Ant1_5755



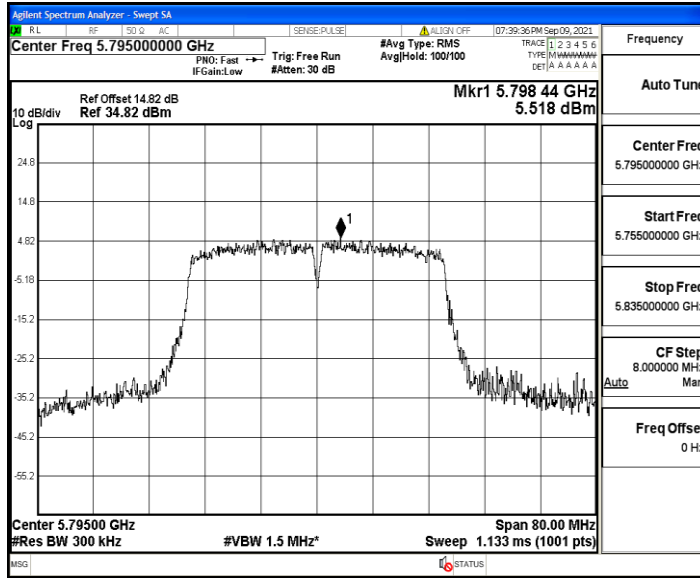
11N40MIMO_Ant2_5755



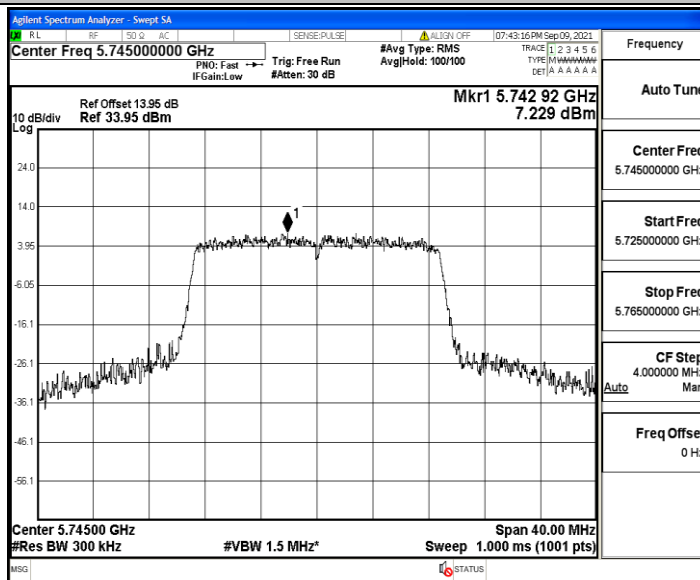
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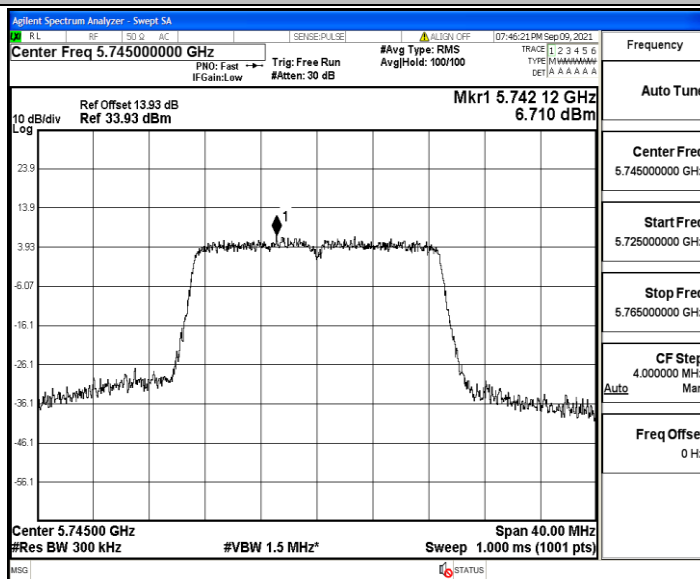
11N40MIMO_Ant2_5795



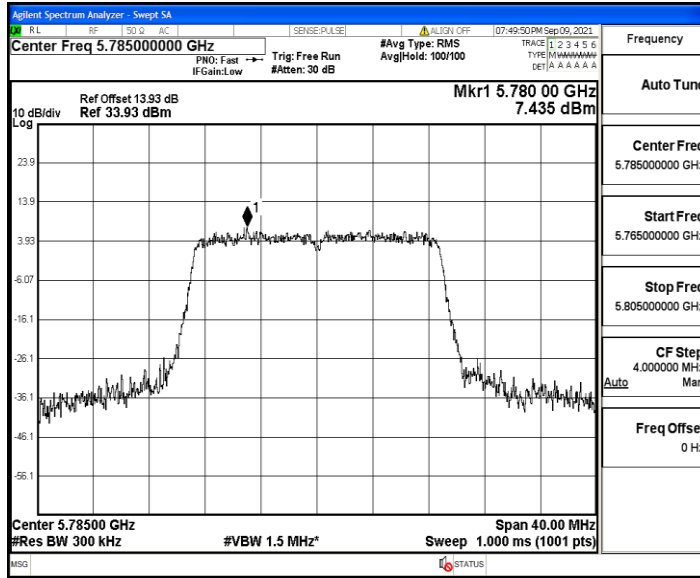
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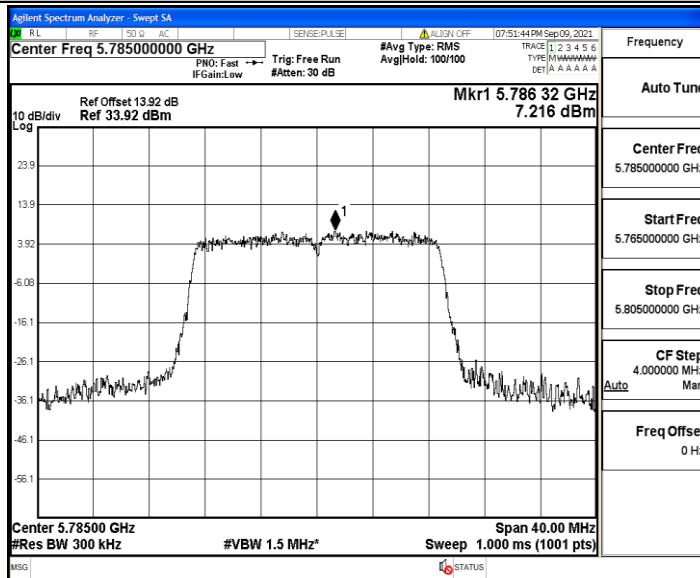
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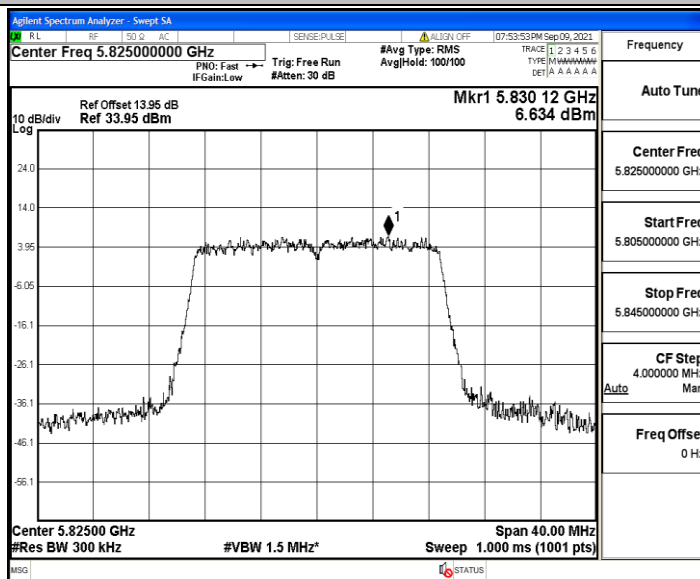
11AC20MIMO_Ant1_5785



11AC20MIMO_Ant2_5785



11AC20MIMO_Ant1_5825



11AC20MIMO_Ant2_5825