Appendix: 5G WIFI

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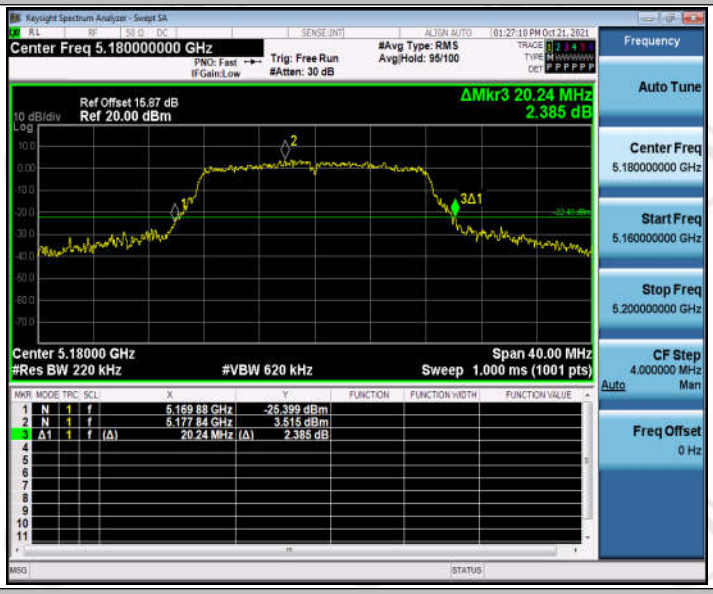
Appendix A1: Emission Bandwidth

Test Result

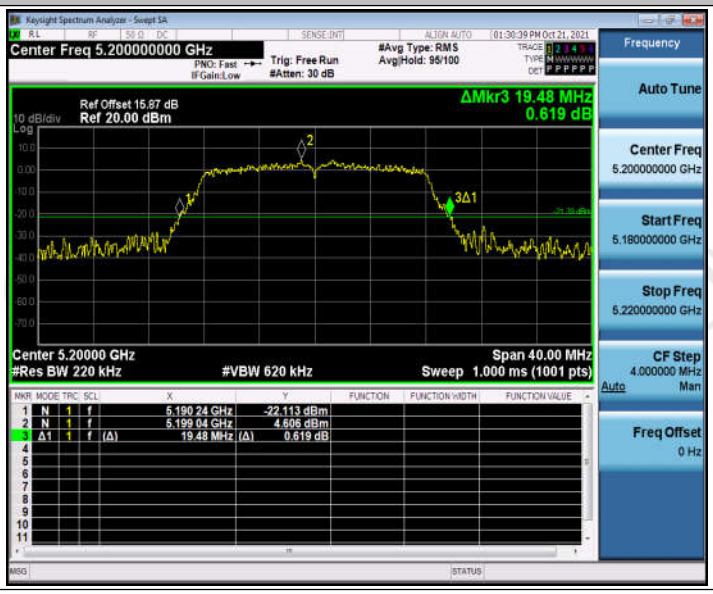
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.240	5169.880	5190.120	---	PASS
		5200	19.480	5190.240	5209.720	---	PASS
		5240	19.840	5230.120	5249.960	---	PASS
		5745	19.840	5735.040	5754.880	---	PASS
		5785	19.880	5775.120	5795.000	---	PASS
		5825	20.120	5814.840	5834.960	---	PASS
11N20SISO	Ant1	5180	20.080	5169.960	5190.040	---	PASS
		5200	20.120	5190.000	5210.120	---	PASS
		5240	20.120	5230.000	5250.120	---	PASS
		5745	20.000	5735.040	5755.040	---	PASS
		5785	21.480	5773.600	5795.080	---	PASS
		5825	20.280	5814.760	5835.040	---	PASS
11N40SISO	Ant1	5190	40.400	5169.920	5210.320	---	PASS
		5230	40.160	5210.000	5250.160	---	PASS
		5755	40.160	5735.000	5775.160	---	PASS
		5795	52.720	5763.000	5815.720	---	PASS
11AC20SISO	Ant1	5180	20.120	5169.840	5189.960	---	PASS
		5200	20.200	5189.880	5210.080	---	PASS
		5240	20.080	5230.040	5250.120	---	PASS
		5745	22.280	5734.920	5757.200	---	PASS
		5785	20.280	5774.880	5795.160	---	PASS
		5825	20.000	5814.960	5834.960	---	PASS
11AC40SISO	Ant1	5190	40.480	5169.920	5210.400	---	PASS
		5230	40.320	5209.920	5250.240	---	PASS
		5755	40.160	5735.080	5775.240	---	PASS
		5795	40.720	5775.000	5815.720	---	PASS
11AC80SISO	Ant1	5210	80.960	5169.840	5250.800	---	PASS
		5775	80.480	5734.840	5815.320	---	PASS

Test Graphs

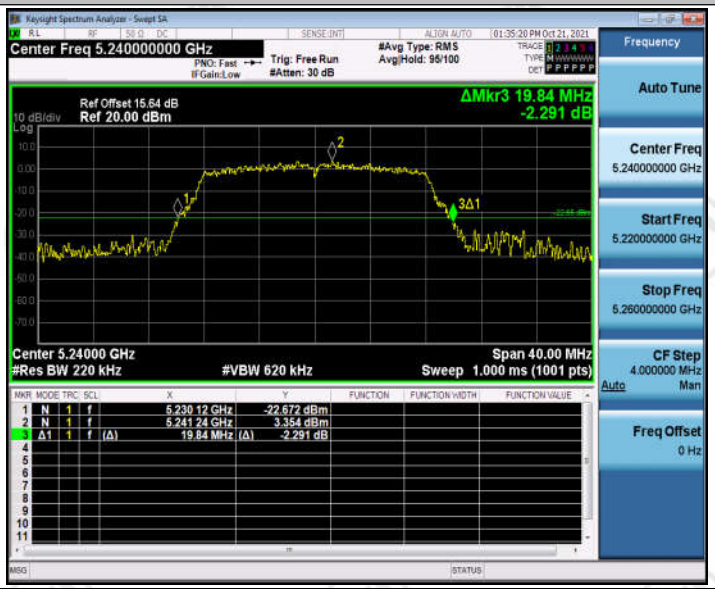
11A_Ant1_5180



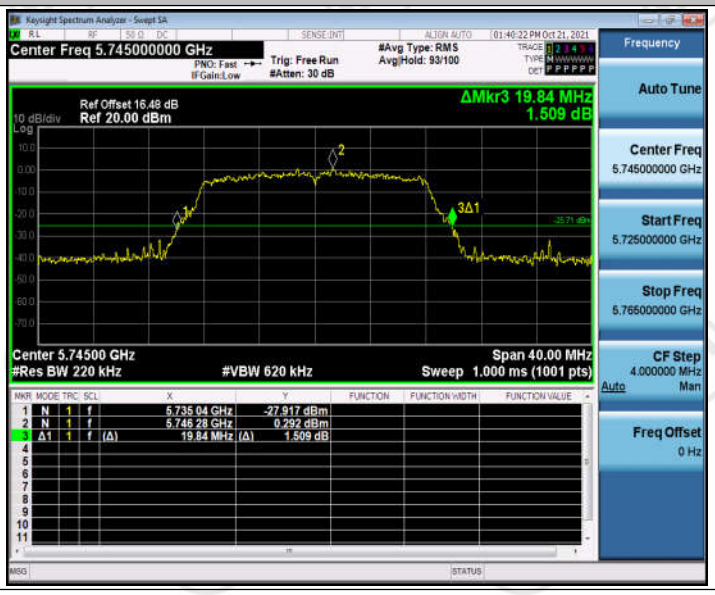
11A_Ant1_5200



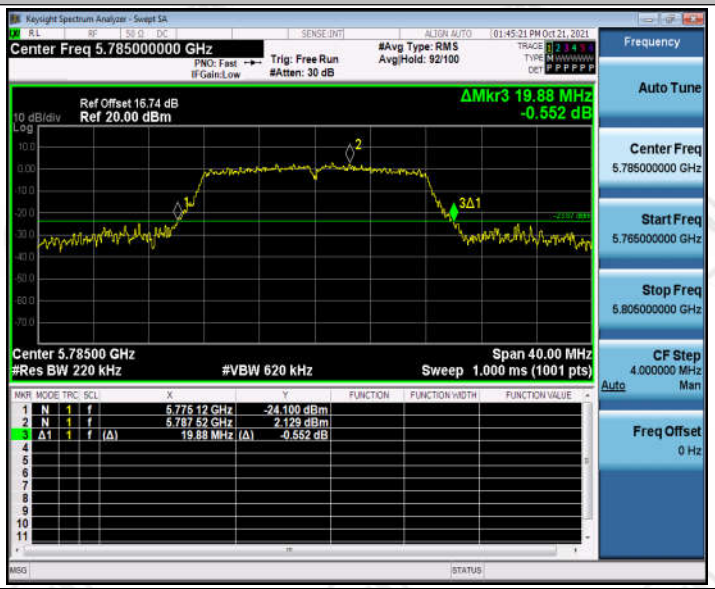
11A_Ant1_5240



11A_Ant1_5745

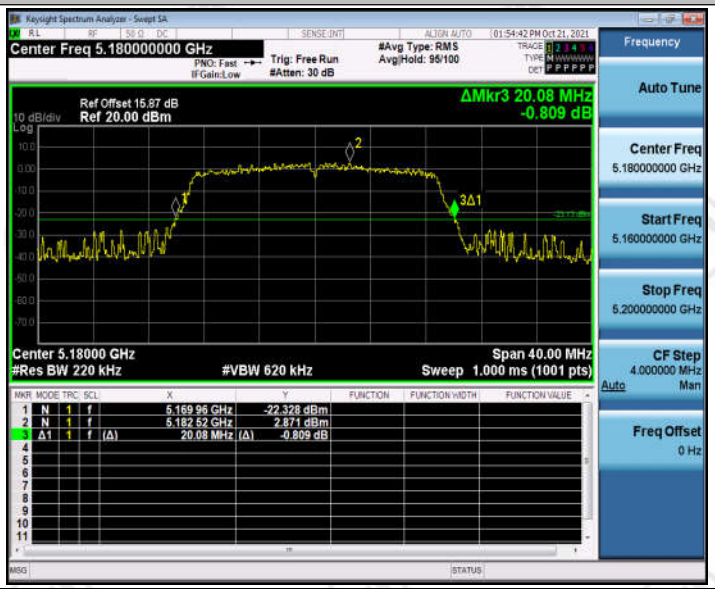


11A_Ant1_5785



11A_Ant1_5825

11N20SISO_Ant1_5180



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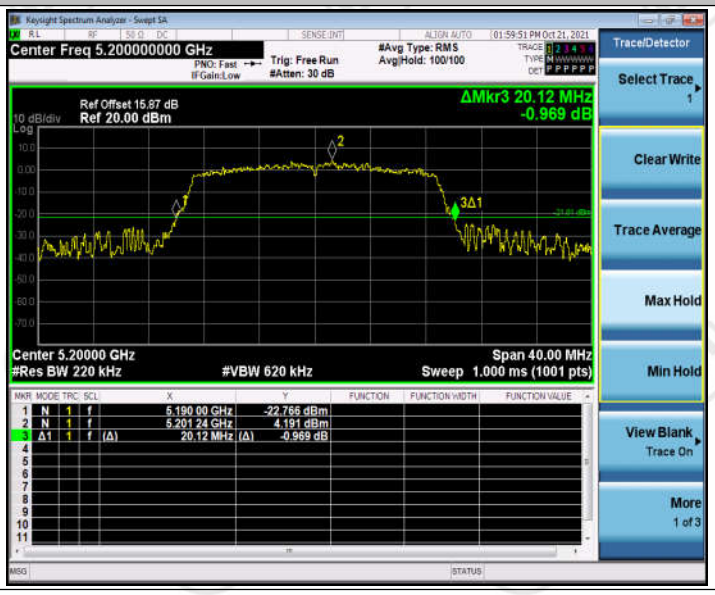

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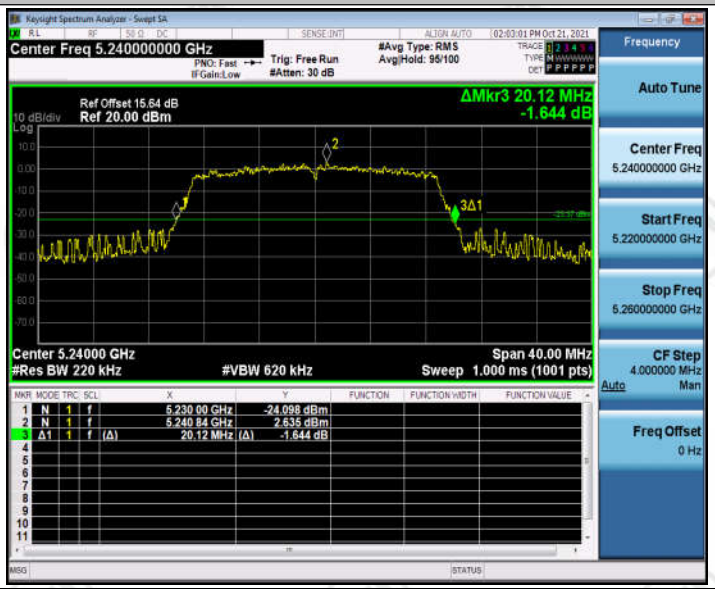

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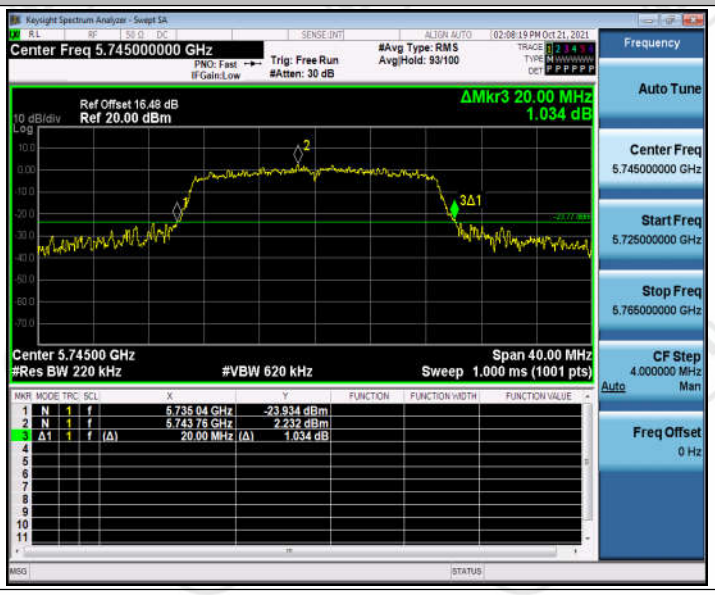

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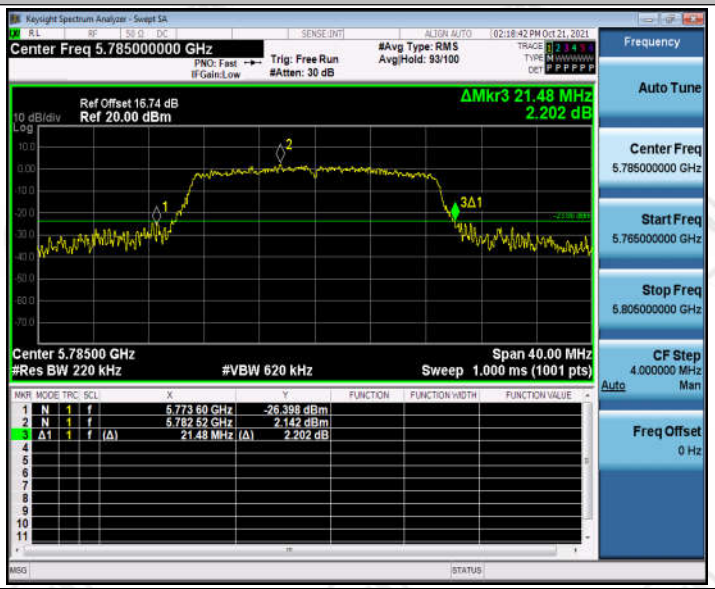

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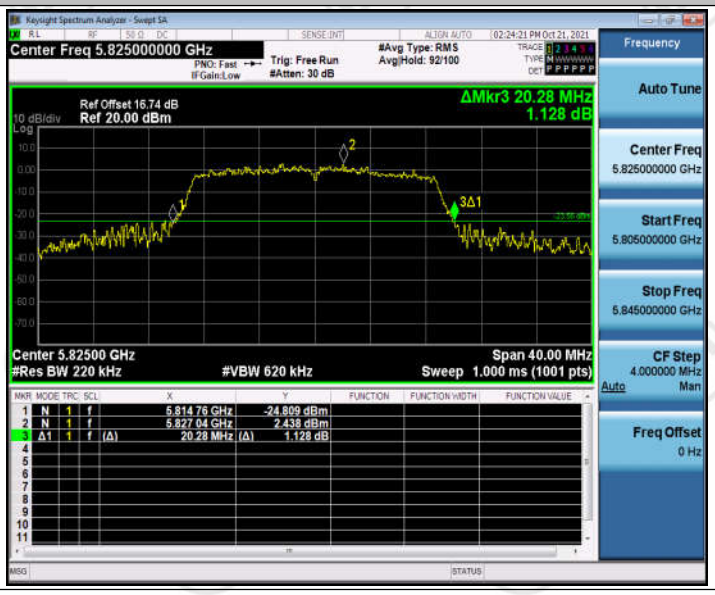

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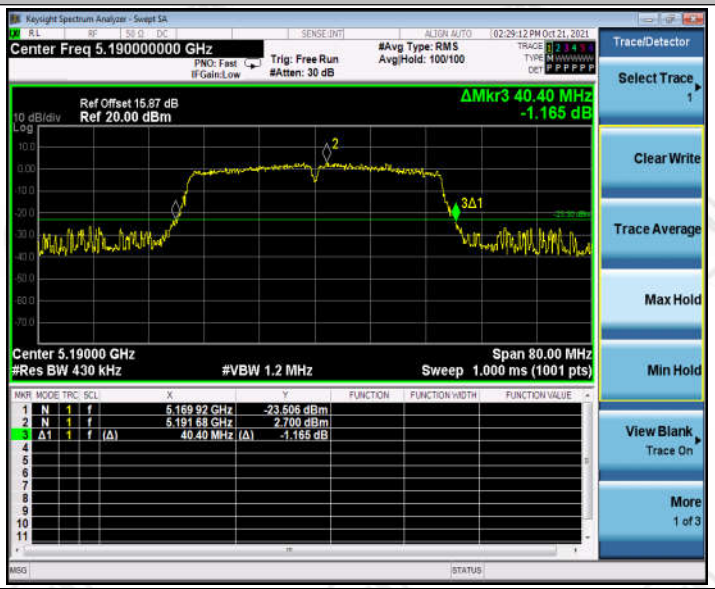

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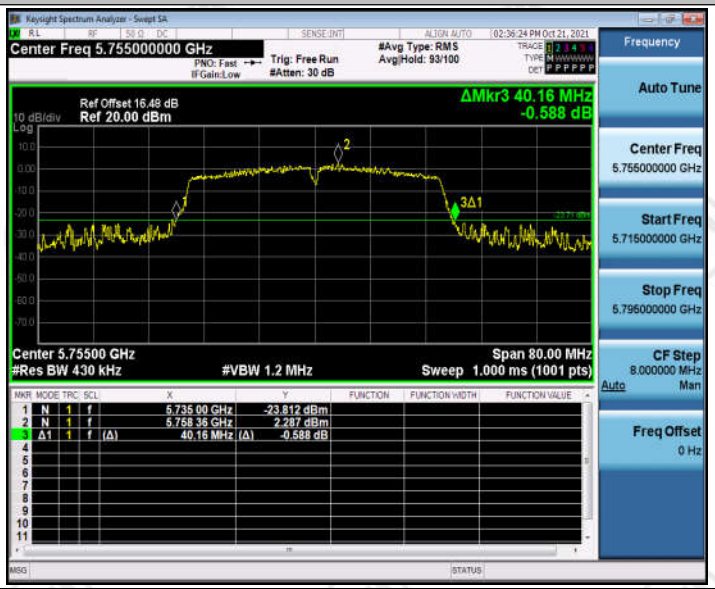
11N40SISO_Ant1_5755



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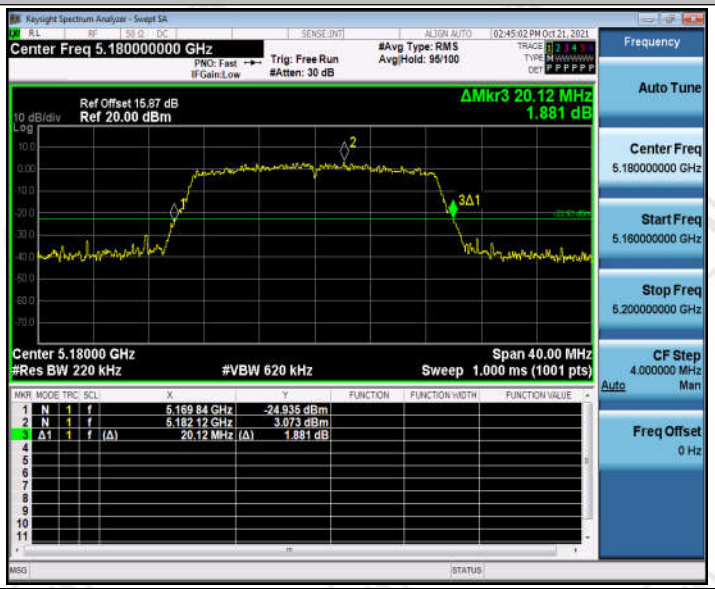
11AC20SISO_Ant1_5180



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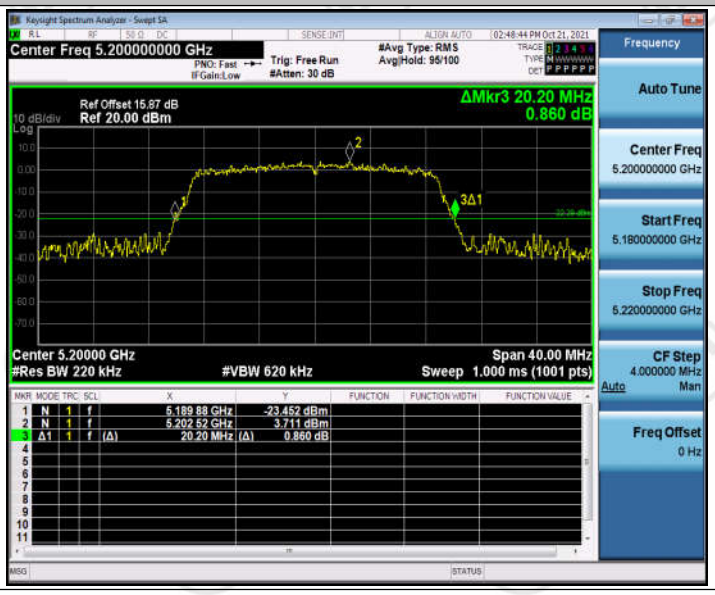

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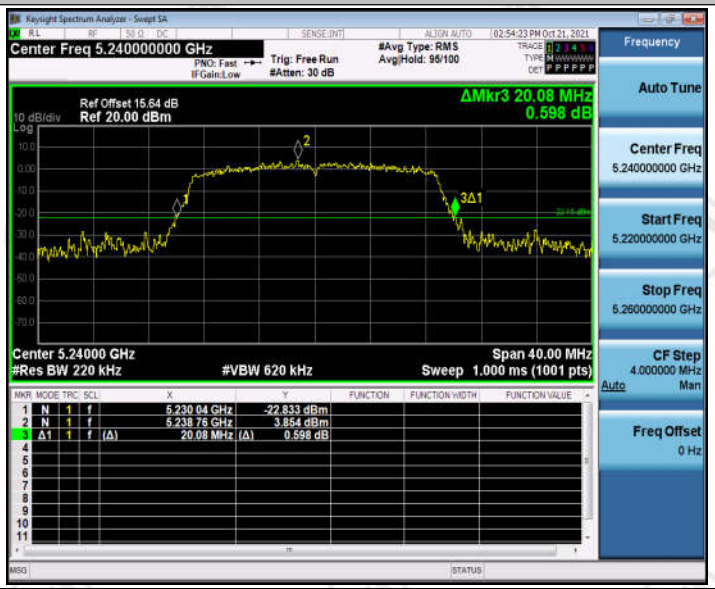

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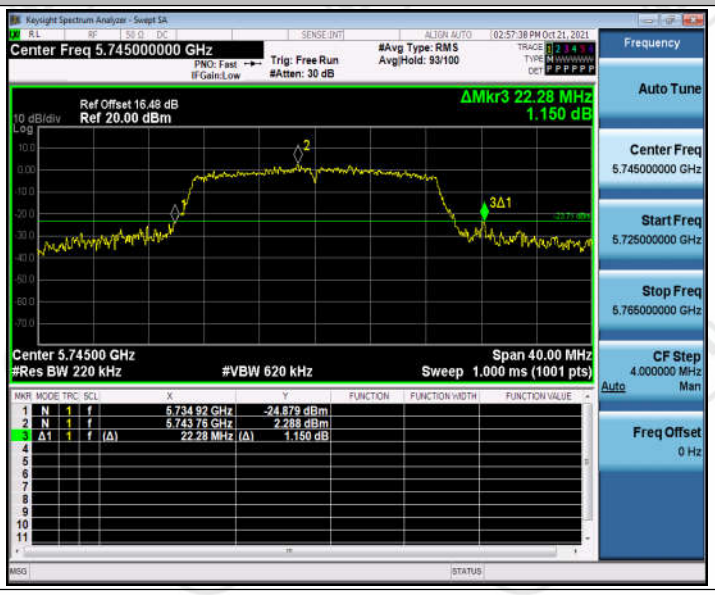
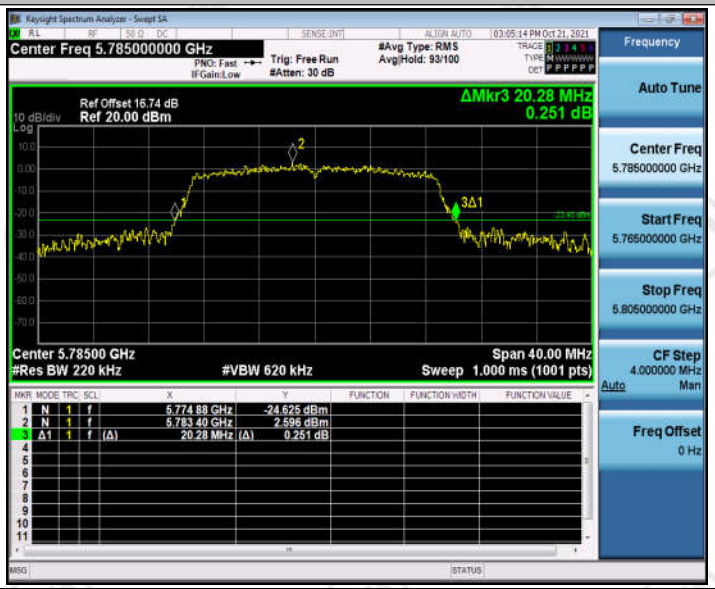
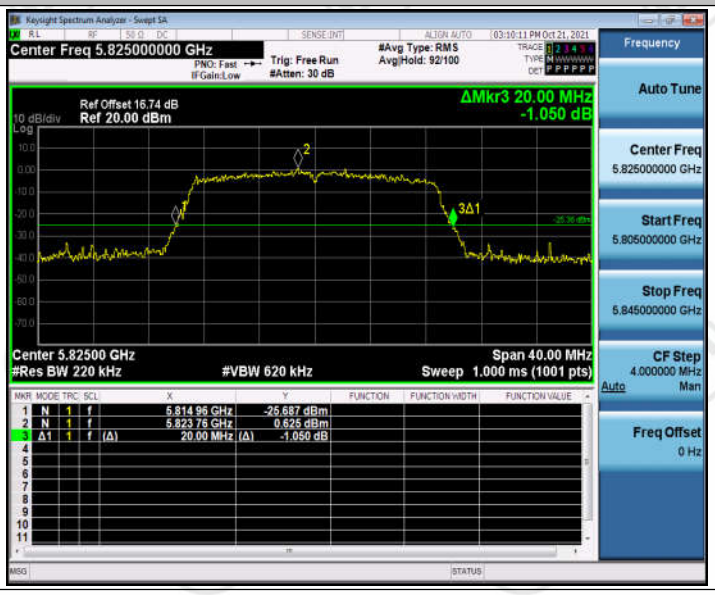


11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



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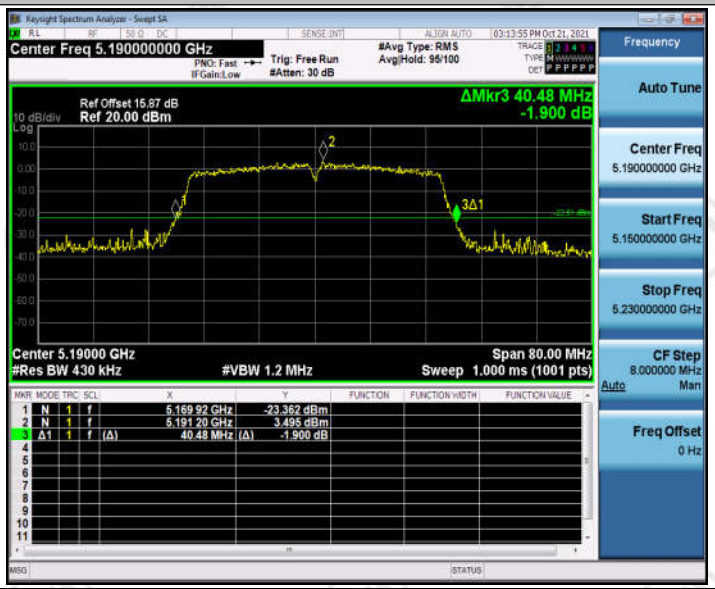

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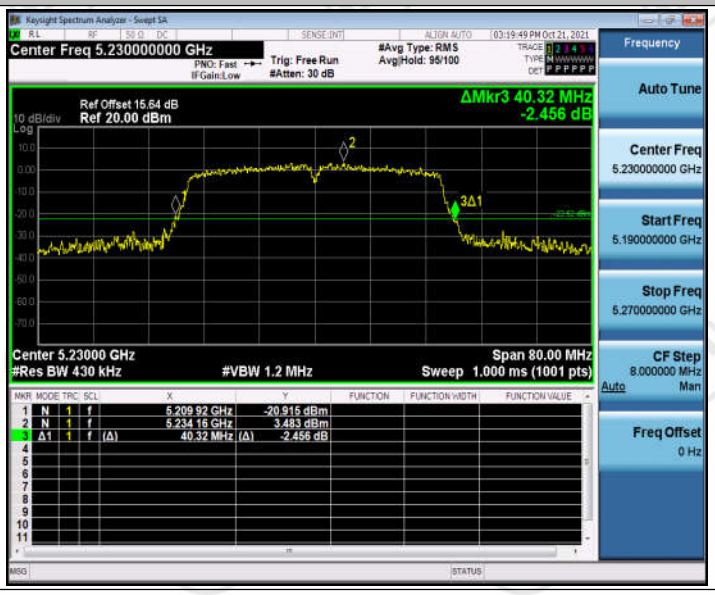
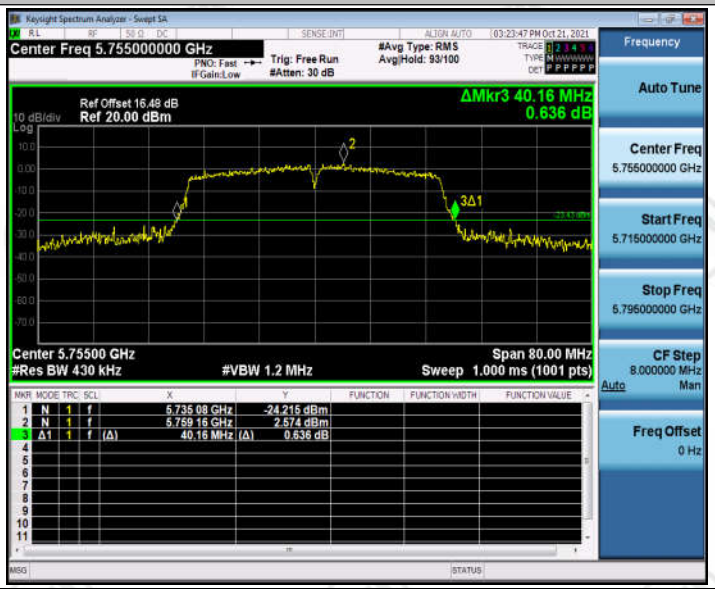
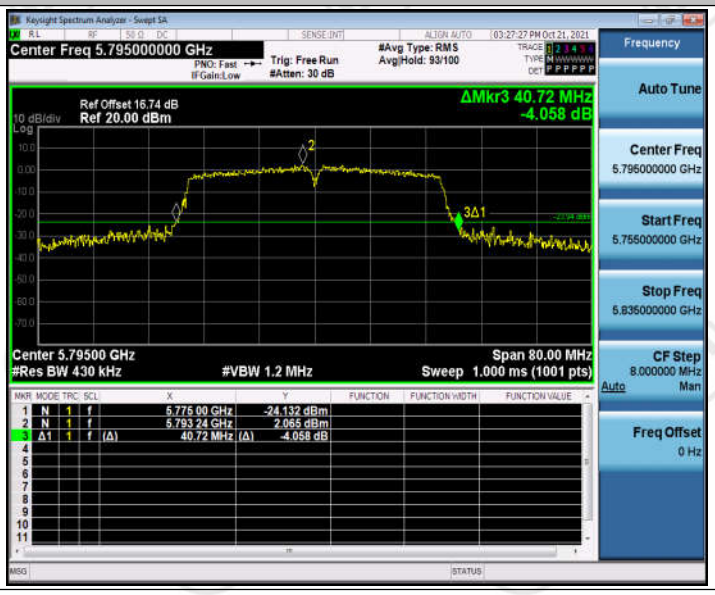


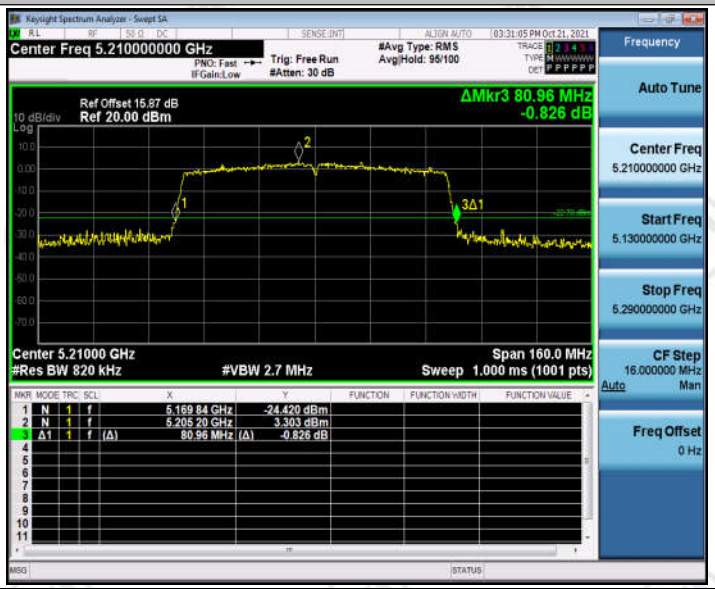
11AC40SISO_Ant1_5755



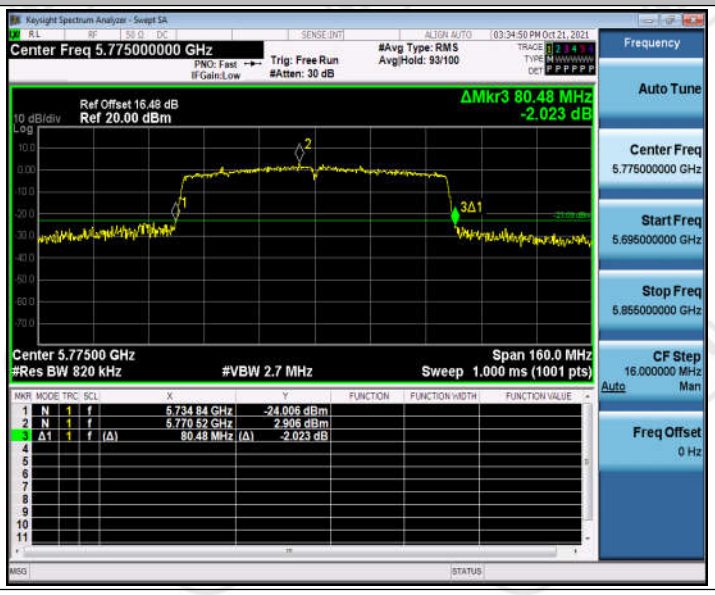
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



Appendix A2: Occupied channel bandwidth

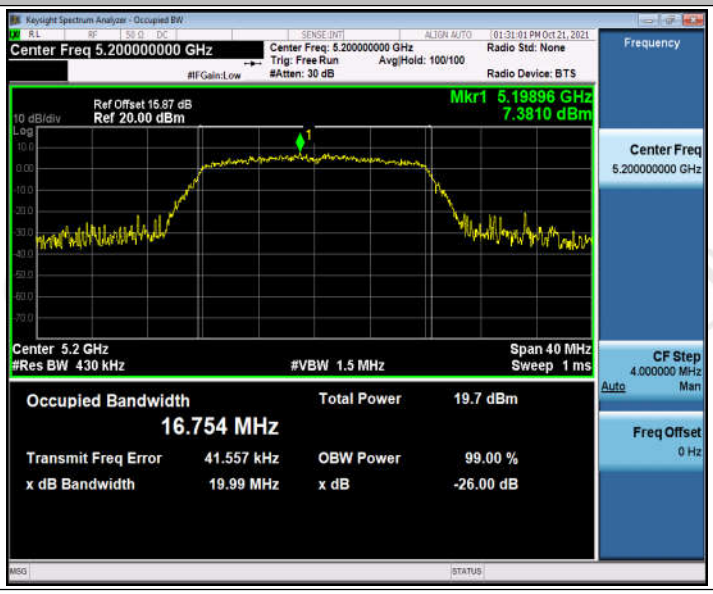
Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.896	5171.559	5188.455	---	PASS
		5200	16.754	5191.665	5208.419	---	PASS
		5240	16.820	5231.632	5248.452	---	PASS
		5745	16.787	5736.650	5753.437	---	PASS
		5785	17.006	5776.487	5793.493	---	PASS
		5825	16.900	5816.515	5833.415	---	PASS
11N20SISO	Ant1	5180	17.843	5171.066	5188.909	---	PASS
		5200	17.800	5191.111	5208.911	---	PASS
		5240	17.827	5231.147	5248.974	---	PASS
		5745	17.846	5736.098	5753.944	---	PASS
		5785	17.854	5776.045	5793.899	---	PASS
		5825	17.849	5816.035	5833.884	---	PASS
11N40SISO	Ant1	5190	36.149	5171.962	5208.111	---	PASS
		5230	36.151	5211.951	5248.102	---	PASS
		5755	36.271	5736.914	5773.185	---	PASS
		5795	36.208	5776.913	5813.121	---	PASS
11AC20SISO	Ant1	5180	17.825	5171.107	5188.932	---	PASS
		5200	17.746	5191.138	5208.884	---	PASS
		5240	17.848	5231.093	5248.941	---	PASS
		5745	17.841	5736.078	5753.919	---	PASS
		5785	17.878	5776.049	5793.927	---	PASS
		5825	17.774	5816.072	5833.846	---	PASS
11AC40SISO	Ant1	5190	36.035	5172.029	5208.064	---	PASS
		5230	36.137	5211.926	5248.063	---	PASS
		5755	36.258	5736.889	5773.147	---	PASS
		5795	36.229	5776.902	5813.131	---	PASS
11AC80SISO	Ant1	5210	75.509	5172.317	5247.826	---	PASS
		5775	75.591	5737.257	5812.848	---	PASS

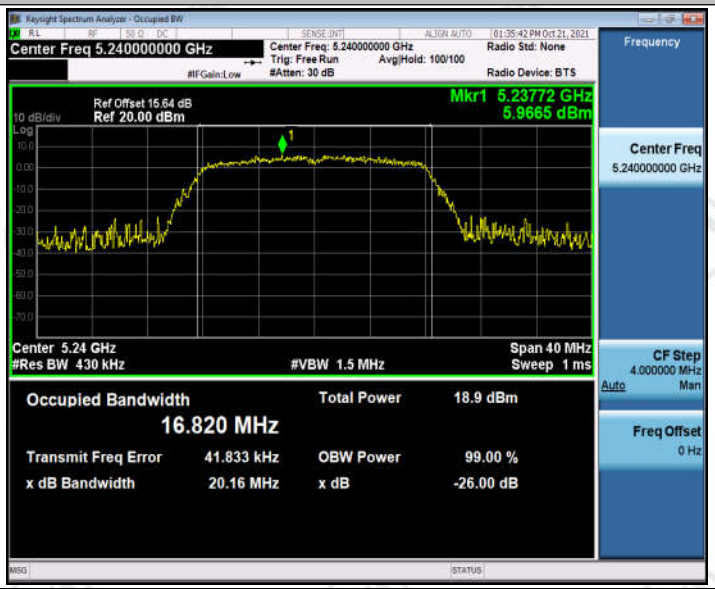
Test Graphs

11A_Ant1_5180

11A_Ant1_5200

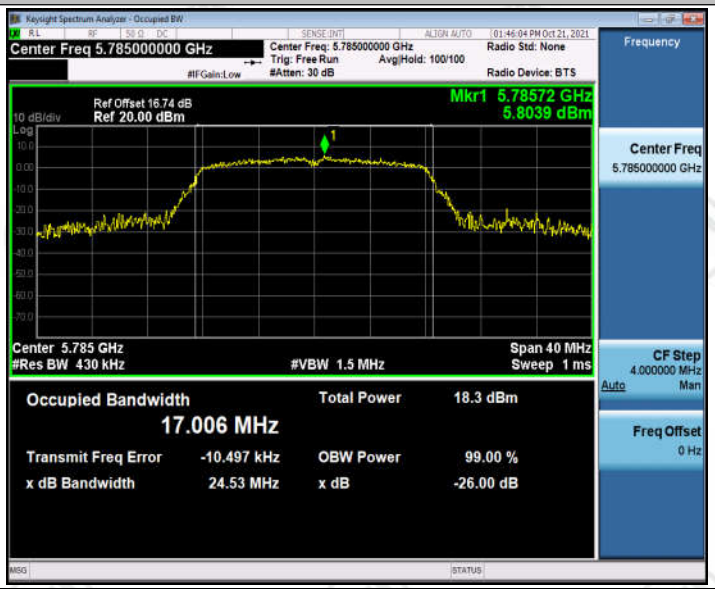


11A_Ant1_5240



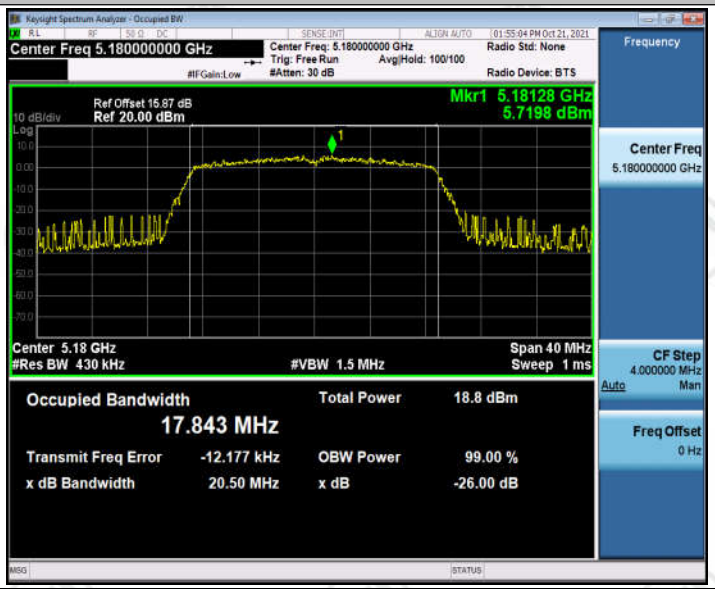
11A_Ant1_5745

11A_Ant1_5785



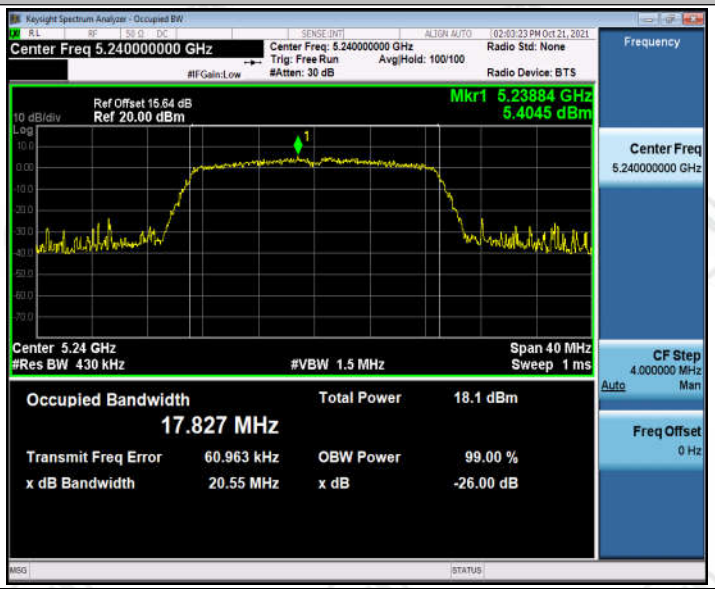
11A_Ant1_5825

11N20SISO_Ant1_5180



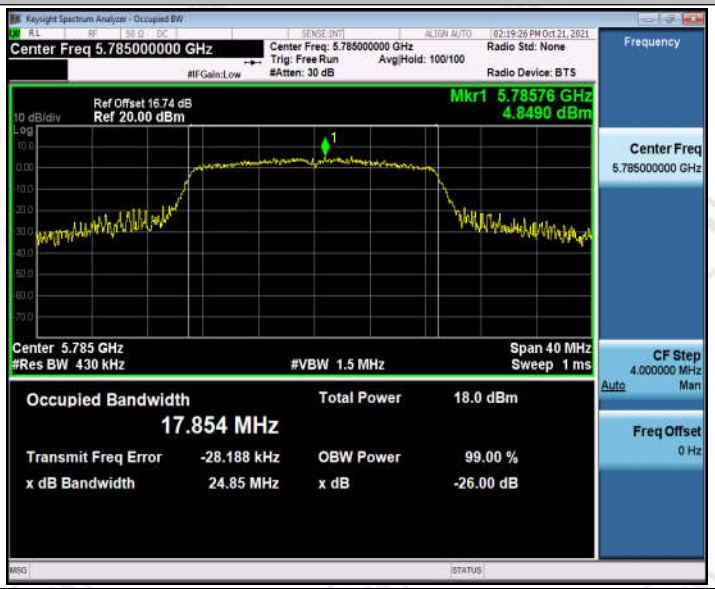
11N20SISO_Ant1_5200

11N20SISO_Ant1_5240



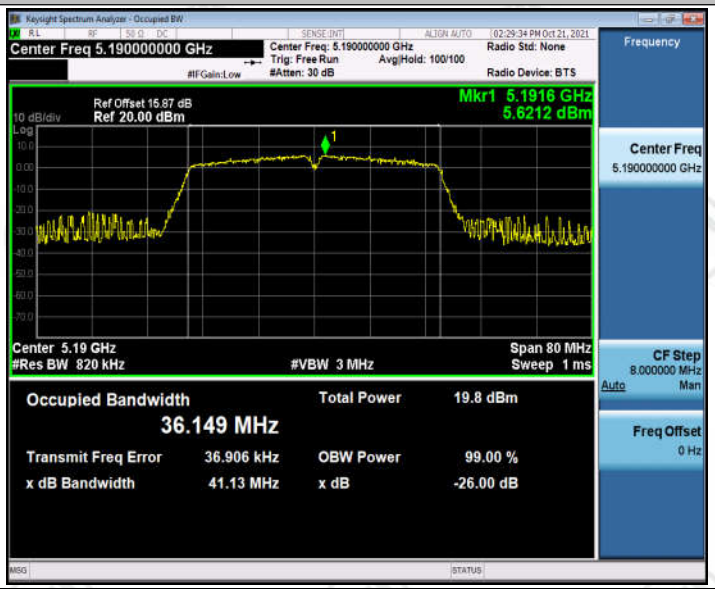
11N20SISO_Ant1_5745

11N20SISO_Ant1_5785



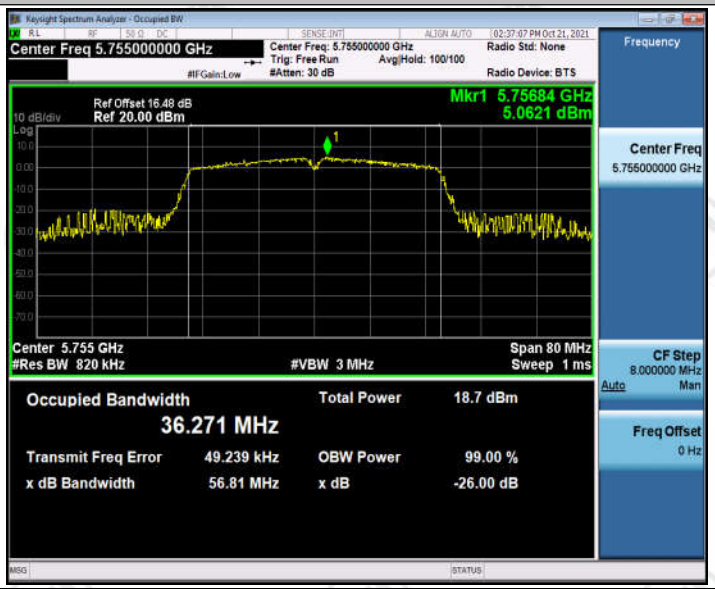
11N20SISO_Ant1_5825

11N40SISO_Ant1_5190

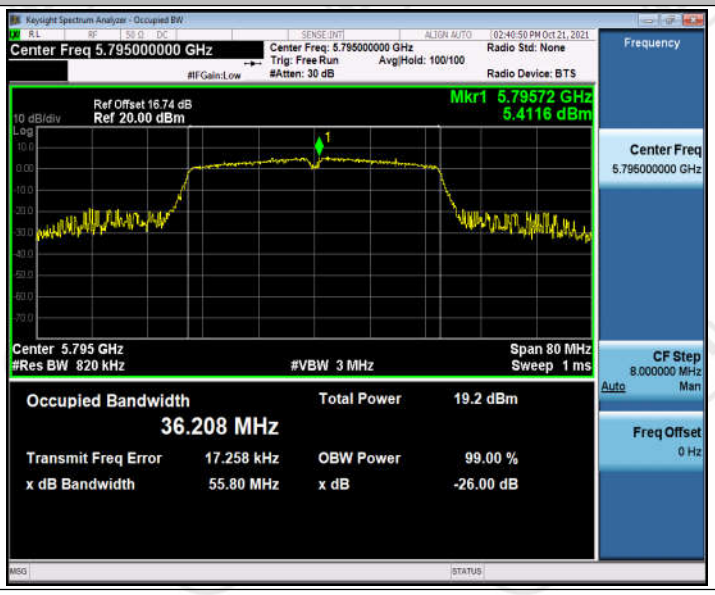


11N40SISO_Ant1_5230

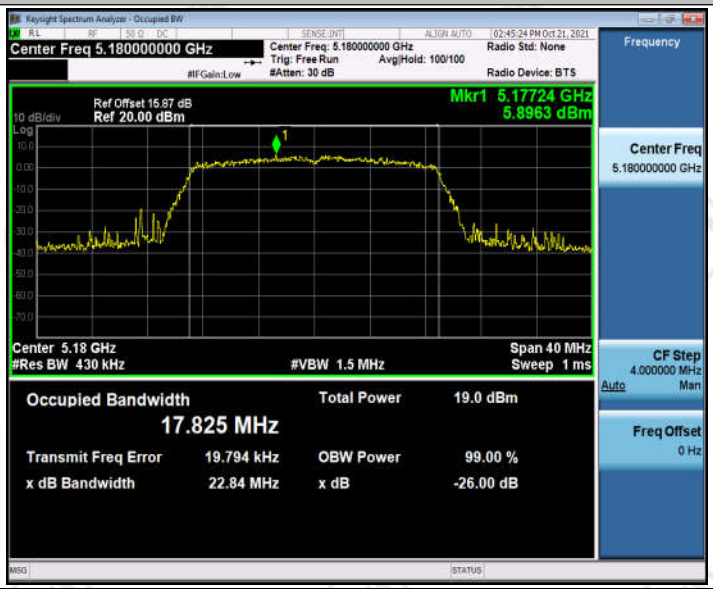
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

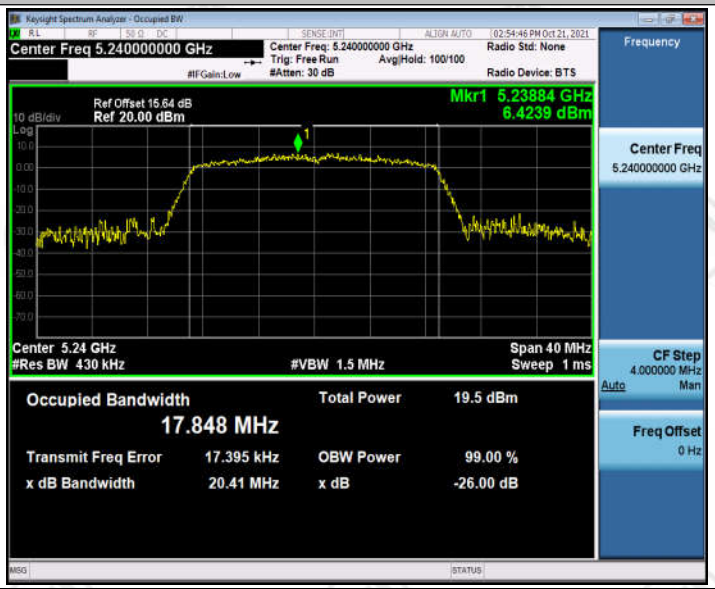


11AC20SISO_Ant1_5180



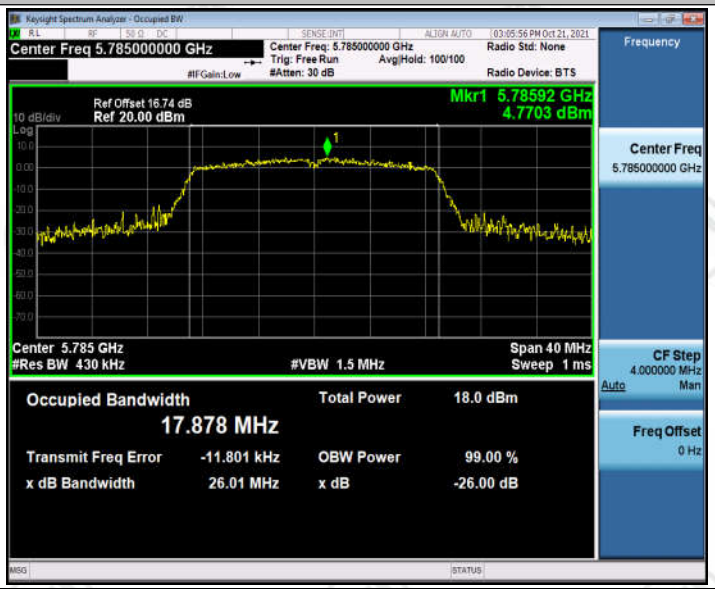
11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

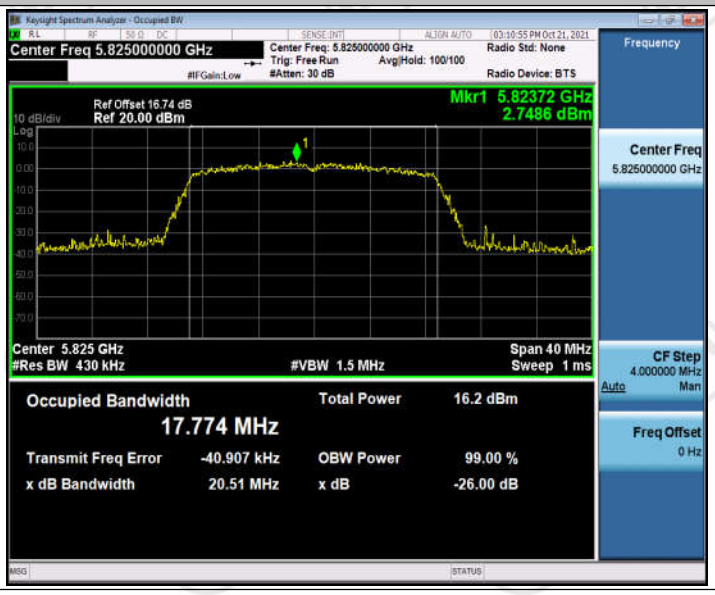


11AC20SISO_Ant1_5745

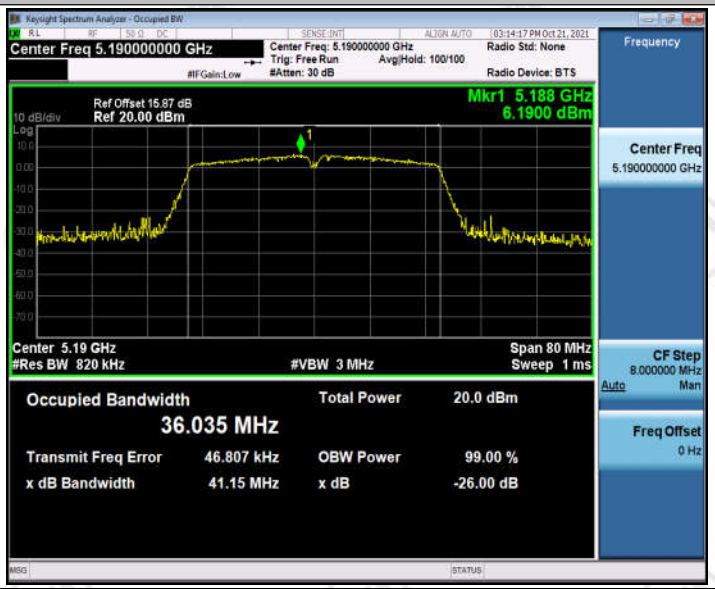
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

11AC40SISO_Ant1_5755

11AC40SISO_Ant1_5795

11AC80SISO_Ant1_5210

11AC80SISO_Ant1_5775

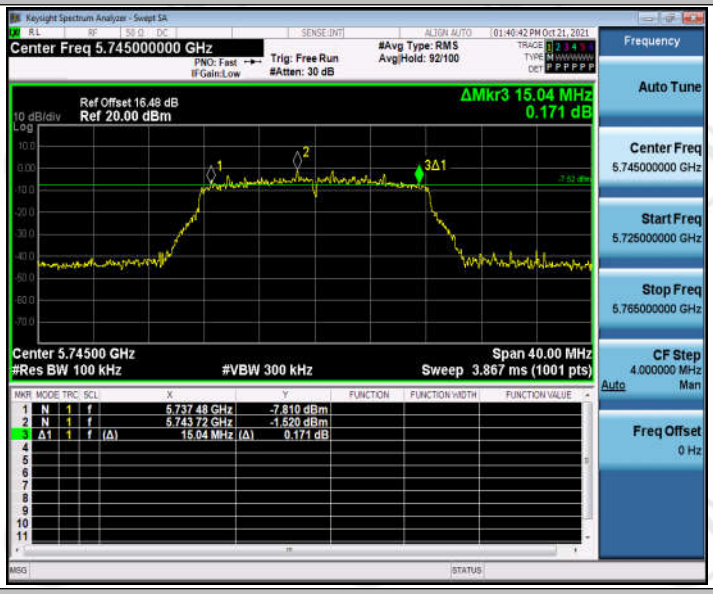
Appendix A3: Min emission bandwidth

Test Result

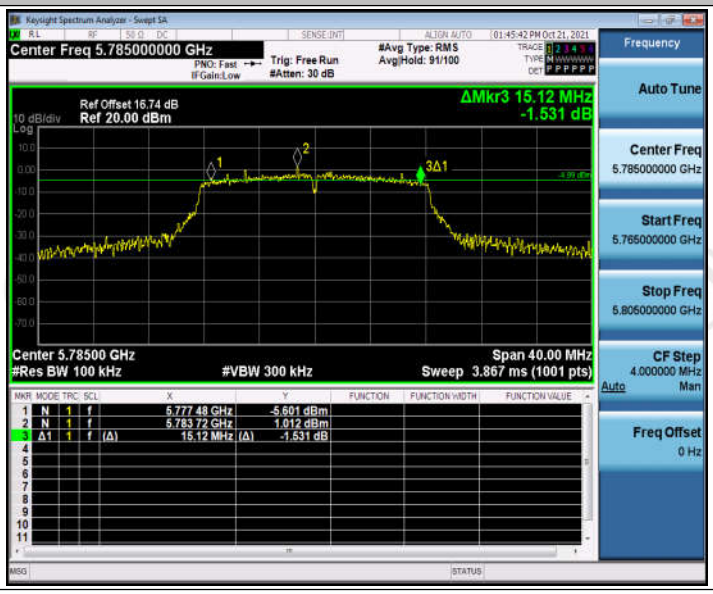
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.120	5777.480	5792.600	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11N20SISO	Ant1	5745	17.240	5736.560	5753.800	0.5	PASS
		5785	15.520	5777.040	5792.560	0.5	PASS
		5825	11.480	5818.320	5829.800	0.5	PASS
11N40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	33.920	5777.480	5811.400	0.5	PASS
11AC20SISO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	14.840	5817.720	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	31.520	5778.600	5810.120	0.5	PASS
11AC80SISO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS

Test Graphs

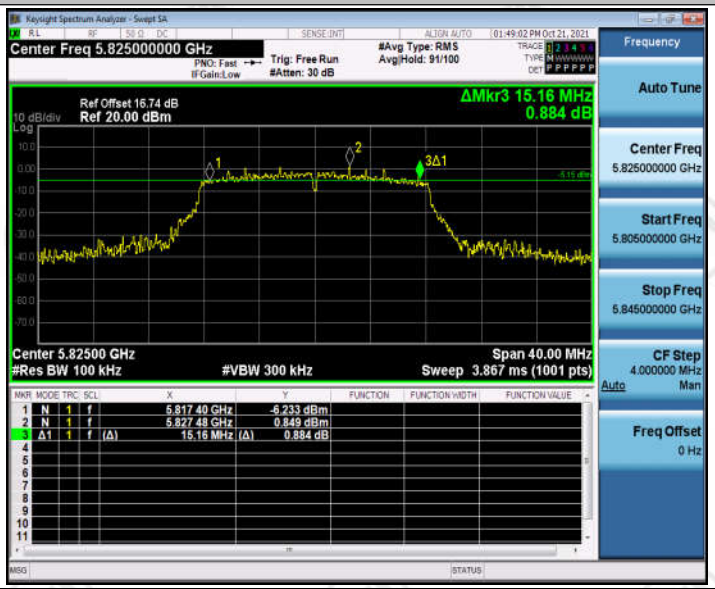
11A_Ant1_5745



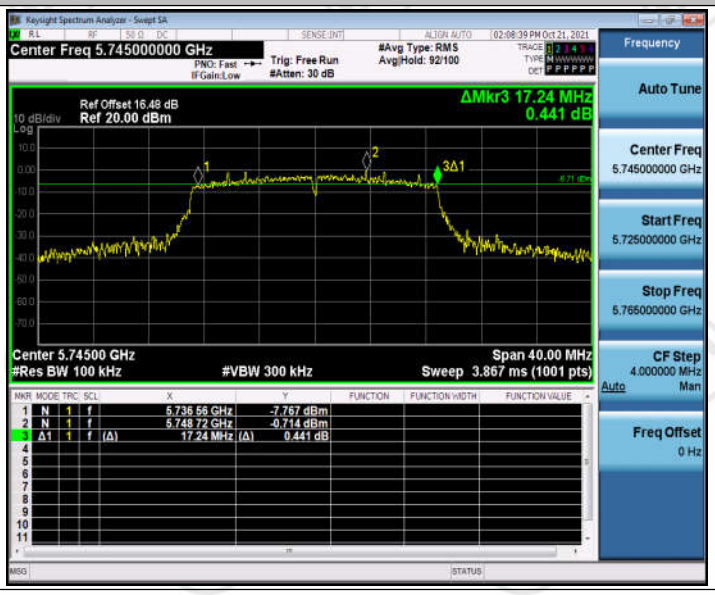
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



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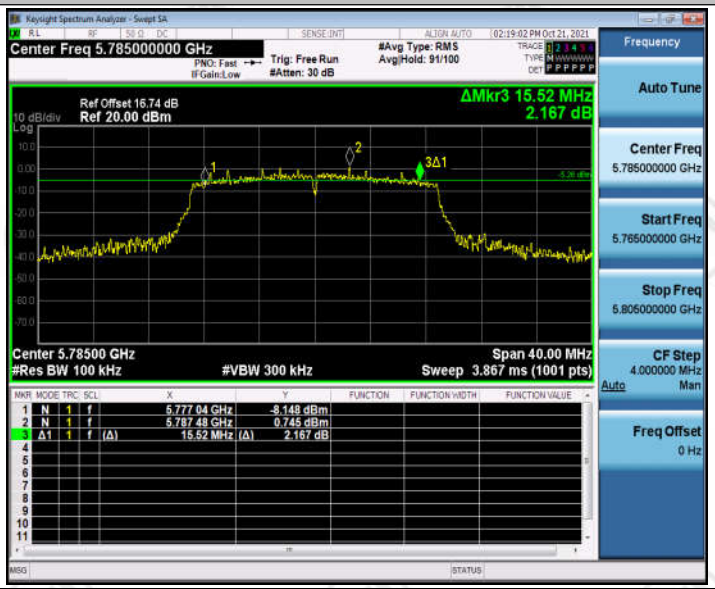
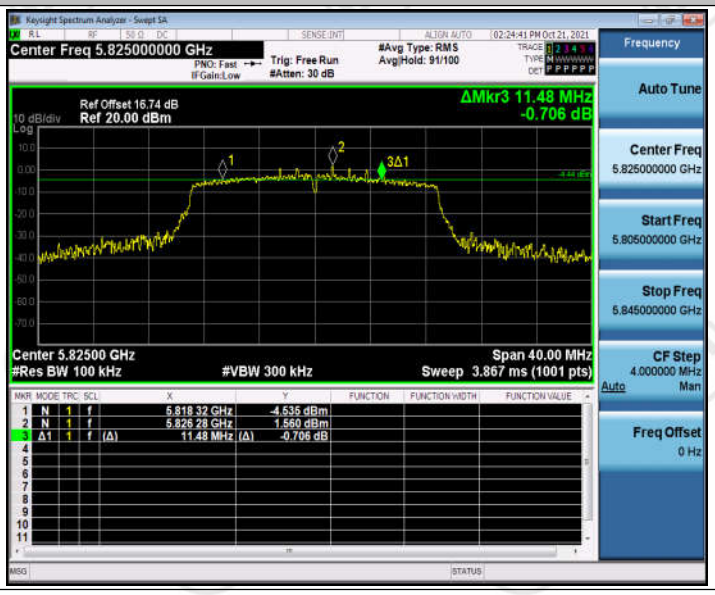
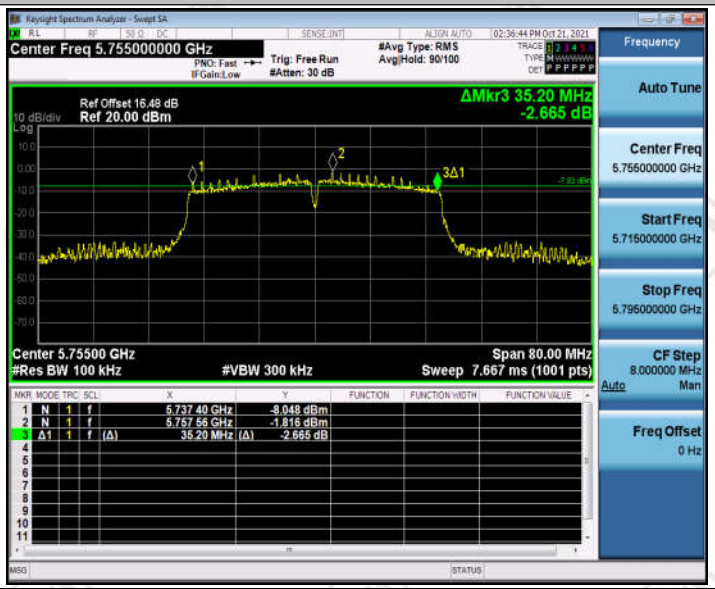


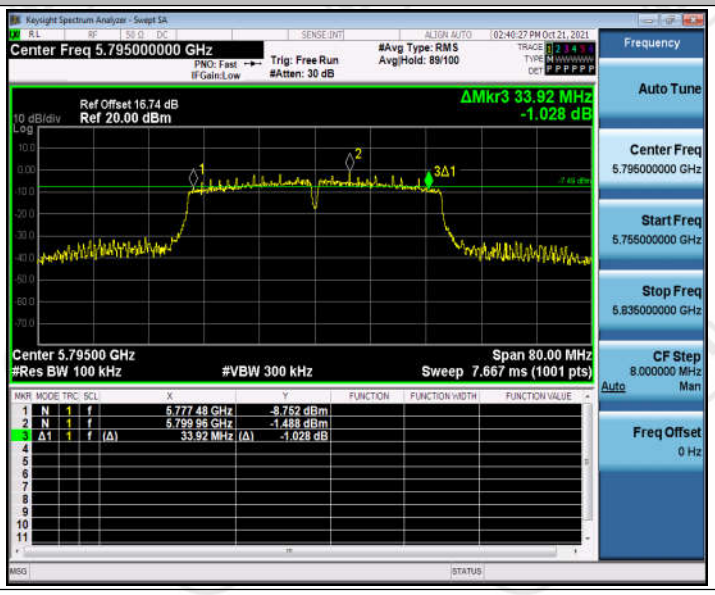
11N20SISO_Ant1_5825



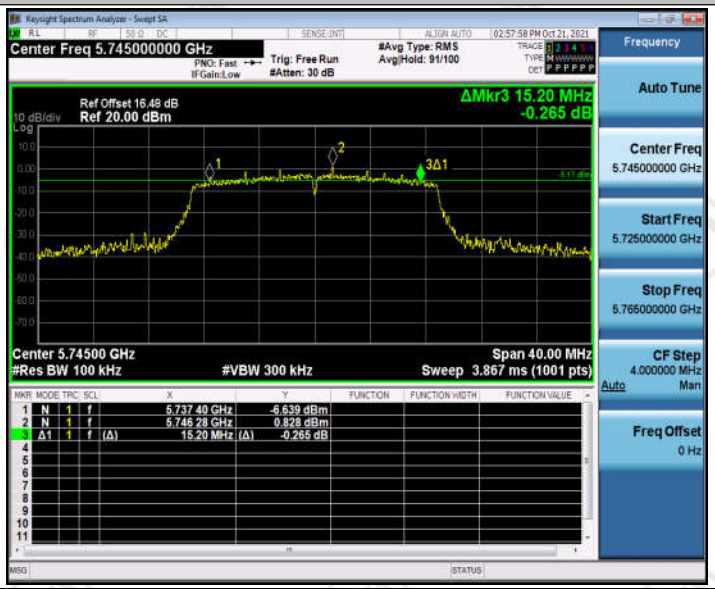
11N40SISO_Ant1_5755



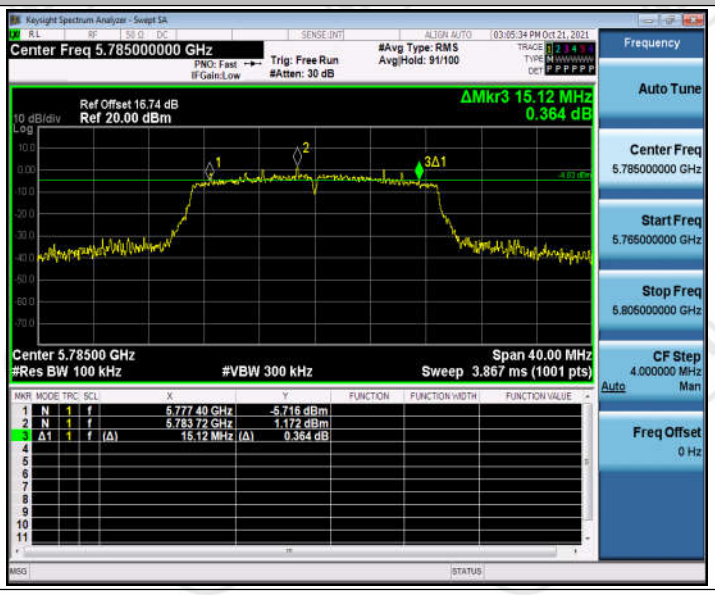
11N40SISO_Ant1_5795



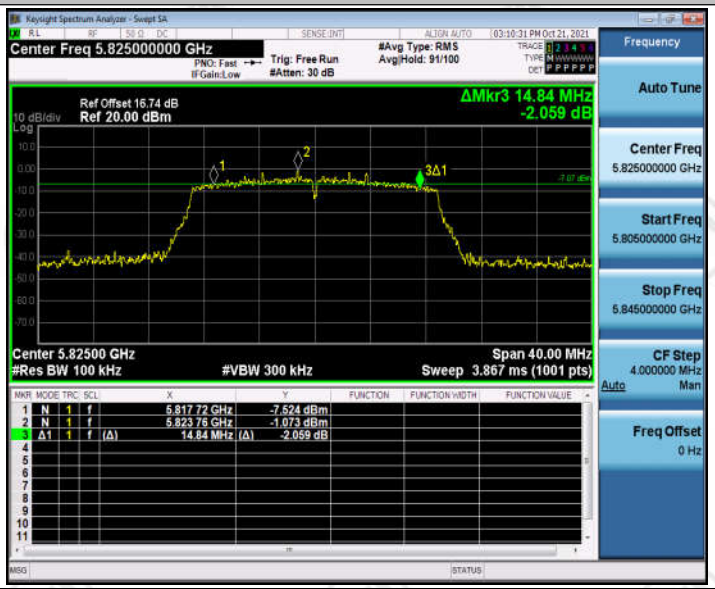
11AC20SISO_Ant1_5745



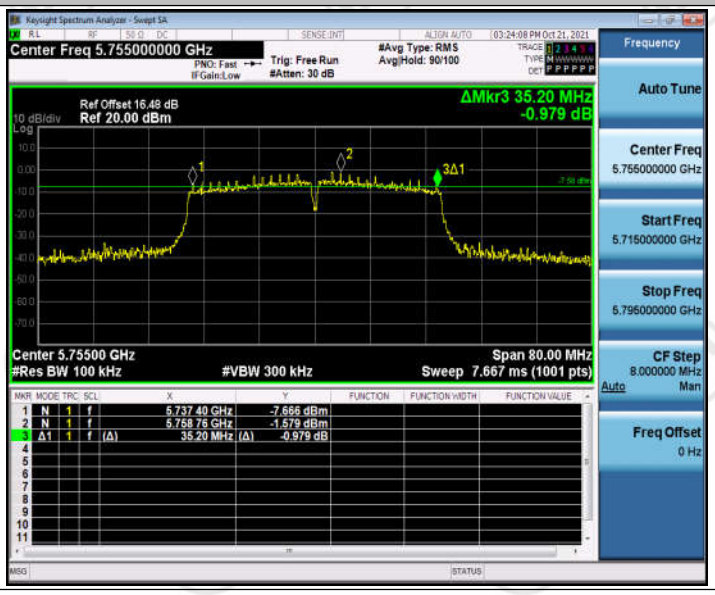
11AC20SISO_Ant1_5785



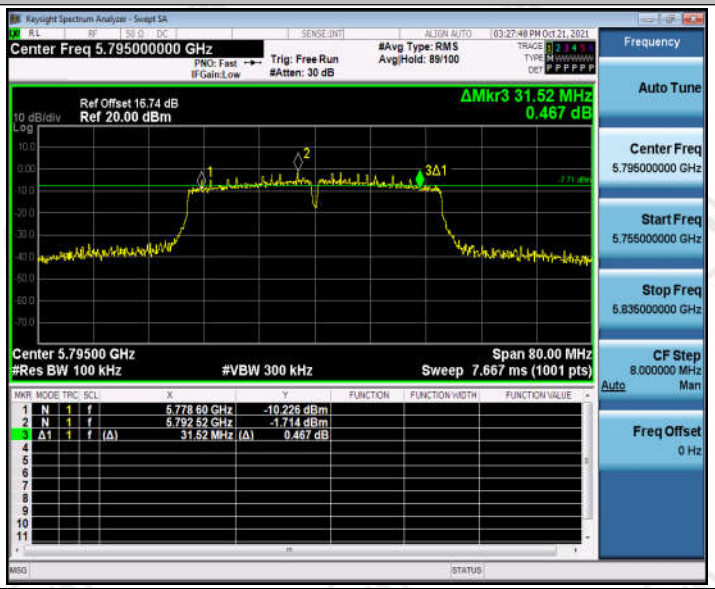
11AC20SISO_Ant1_5825



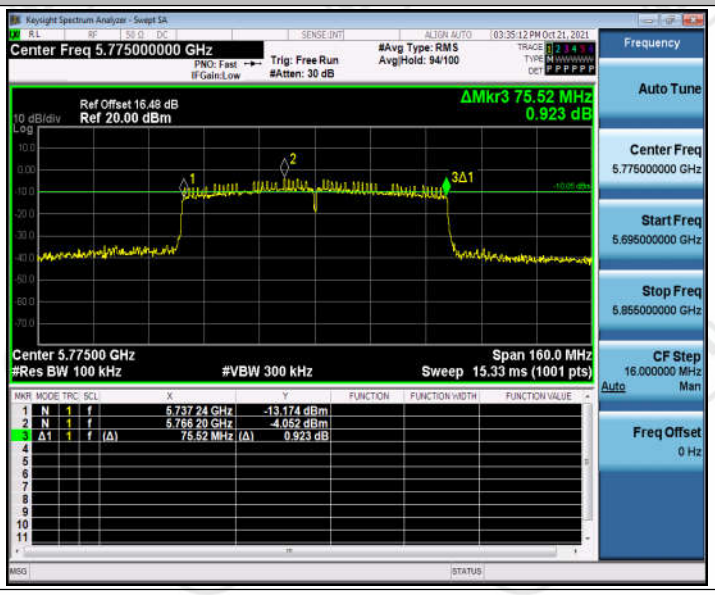
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.62	<=23.98	PASS
		5200	13.53	<=23.98	PASS
		5240	13.49	<=23.98	PASS
		5745	12.59	<=30	PASS
		5785	12.25	<=30	PASS
		5825	12.10	<=30	PASS
11N20SISO	Ant1	5180	13.00	<=23.98	PASS
		5200	13.48	<=23.98	PASS
		5240	13.30	<=23.98	PASS
		5745	12.51	<=30	PASS
		5785	12.00	<=30	PASS
		5825	12.06	<=30	PASS
11N40SISO	Ant1	5190	13.05	<=23.98	PASS
		5230	13.47	<=23.98	PASS
		5755	12.11	<=30	PASS
		5795	12.44	<=30	PASS
11AC20SISO	Ant1	5180	13.07	<=23.98	PASS
		5200	13.48	<=23.98	PASS
		5240	13.40	<=23.98	PASS
		5745	12.39	<=30	PASS
		5785	12.10	<=30	PASS
		5825	12.35	<=30	PASS
11AC40SISO	Ant1	5190	13.14	<=23.98	PASS
		5230	13.00	<=23.98	PASS
		5755	12.08	<=30	PASS
		5795	12.50	<=30	PASS
11AC80SISO	Ant1	5210	12.98	<=23.98	PASS
		5775	12.27	<=30	PASS

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

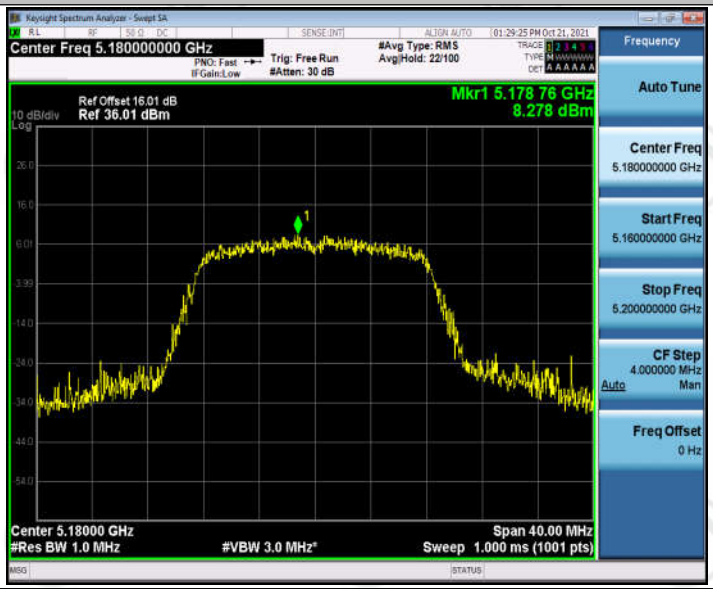
Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	8.28	<=11	PASS
		5200	8.36	<=11	PASS
		5240	8.3	<=11	PASS
		5745	5.6	<=30	PASS
		5785	4.27	<=30	PASS
		5825	4.77	<=30	PASS
11N20SISO	Ant1	5180	7.39	<=11	PASS
		5200	8.16	<=11	PASS
		5240	7.98	<=11	PASS
		5745	4.97	<=30	PASS
		5785	4.03	<=30	PASS
		5825	4.66	<=30	PASS
11N40SISO	Ant1	5190	5.36	<=11	PASS
		5230	5.2	<=11	PASS
		5755	1.77	<=30	PASS
		5795	2.28	<=30	PASS
11AC20SISO	Ant1	5180	7.75	<=11	PASS
		5200	8.15	<=11	PASS
		5240	8.06	<=11	PASS
		5745	5.07	<=30	PASS
		5785	4.22	<=30	PASS
		5825	4.99	<=30	PASS
11AC40SISO	Ant1	5190	5.08	<=11	PASS
		5230	4.62	<=11	PASS
		5755	1.89	<=30	PASS
		5795	2.16	<=30	PASS
11AC80SISO	Ant1	5210	1.64	<=11	PASS
		5775	-1.21	<=30	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.

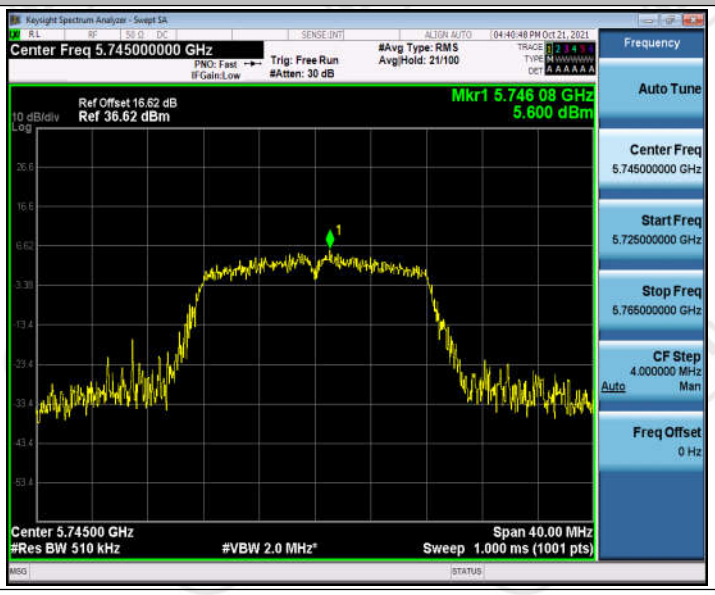
Test Graphs

11A_Ant1_5180


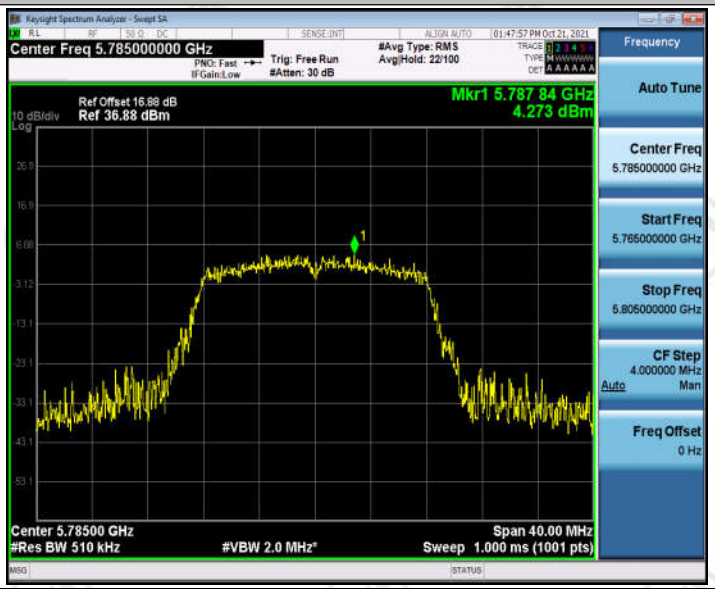
11A_Ant1_5200

11A_Ant1_5240

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

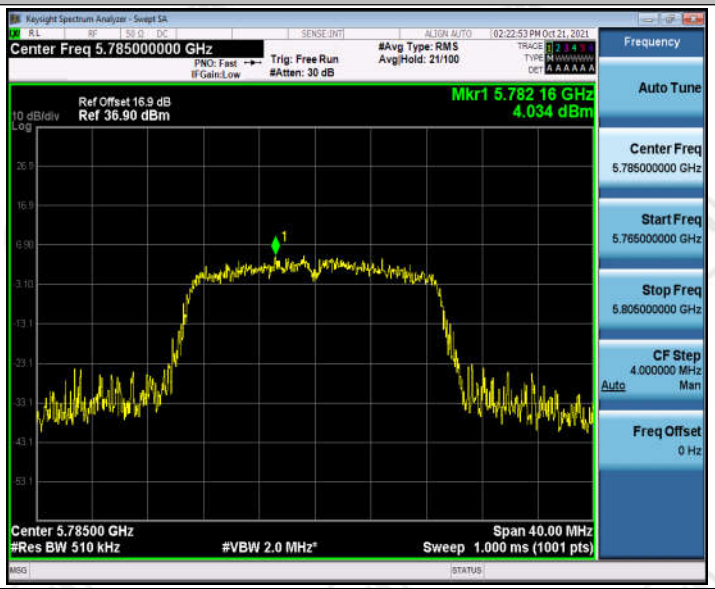
11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

11N20SISO_Ant1_5745

11N20SISO_Ant1_5785

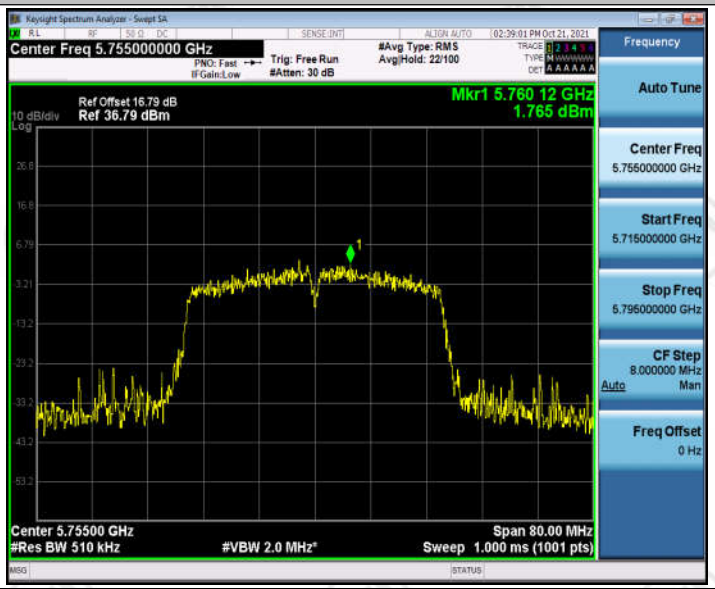


11N20SISO_Ant1_5825

11N40SISO_Ant1_5190

11N40SISO_Ant1_5230

11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

11AC20SISO_Ant1_5180

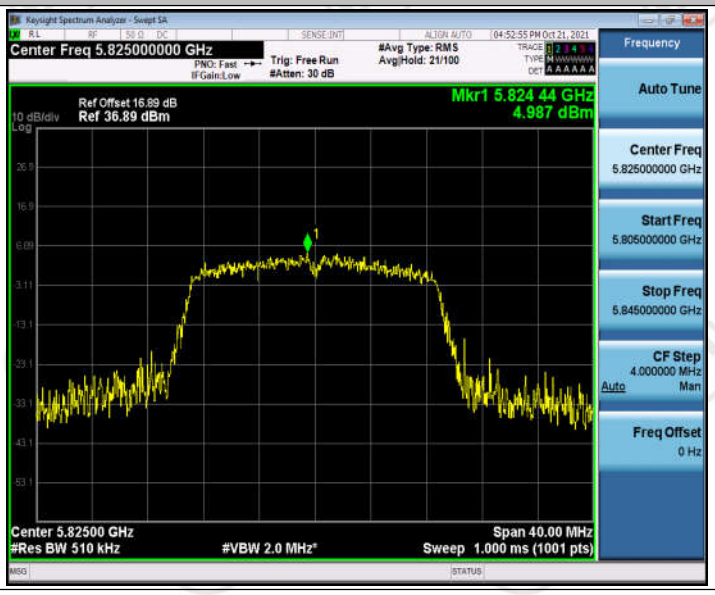
11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

11AC20SISO_Ant1_5745

11AC20SISO_Ant1_5785

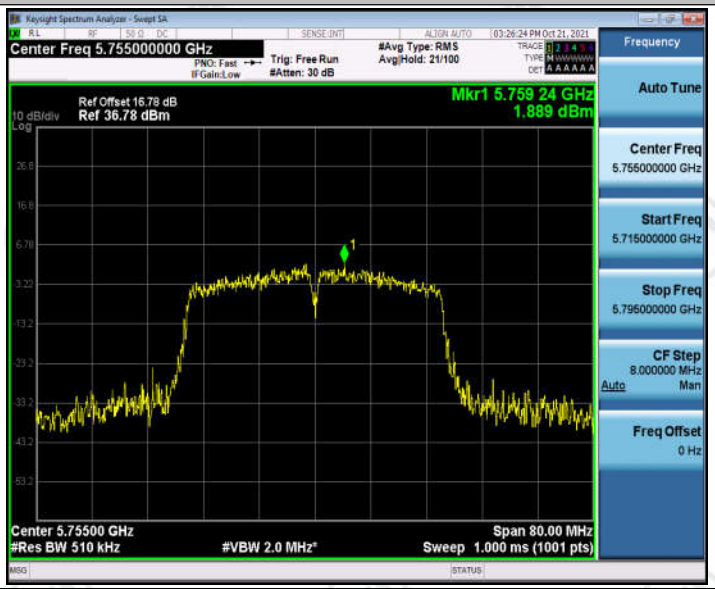
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190

11AC40SISO_Ant1_5230

11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

11AC80SISO_Ant1_5210

11AC80SISO_Ant1_5775

Appendix D: Band edge measurements

Test Result

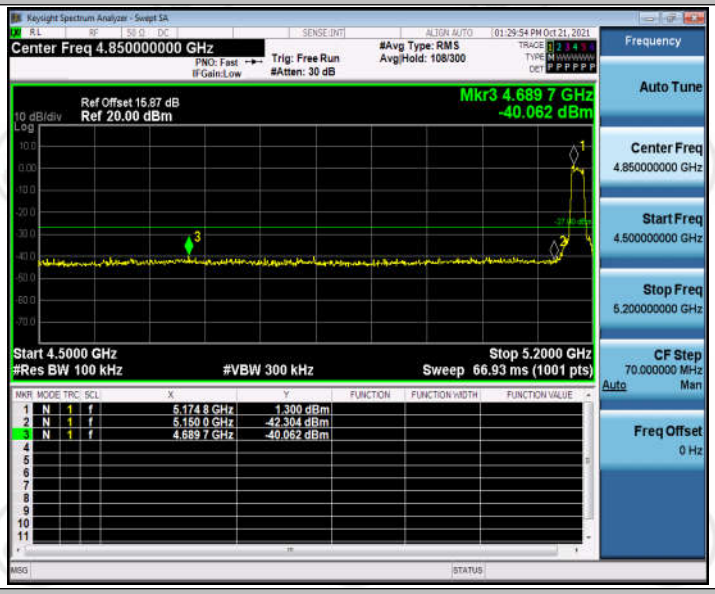
Test Mode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-40.06	<=-27	PASS
		High	5240	-43.02	<=-27	PASS
11N20SISO	Ant1	Low	5180	-39.91	<=-27	PASS
		High	5240	-42.91	<=-27	PASS
11N40SISO	Ant1	Low	5190	-39.89	<=-27	PASS
		High	5230	-42.76	<=-27	PASS
11AC20SISO	Ant1	Low	5180	-39.62	<=-27	PASS
		High	5240	-42.57	<=-27	PASS
11AC40SISO	Ant1	Low	5190	-40.05	<=-27	PASS
		High	5230	-42.53	<=-27	PASS
11AC80SISO	Ant1	Low	5210	-38.90	<=-27	PASS
		High	5210	-43.11	<=-27	PASS

Test Mode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-42.45	<=-2.53	PASS
				5700~5720	-42.02	<=14.98	PASS
				5720~5725	-40	<=26.57	PASS
				5760~5650	-42.84	<=-27	PASS
		High	5825	5850~5855	-41.76	<=26.87	PASS
				5855~5875	-41.63	<=14.37	PASS
				5875~5925	-40.96	<=-22.96	PASS
				5925~5935	-40.44	<=-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-41.82	<=-16.32	PASS
				5700~5720	-41.64	<=15.59	PASS
				5720~5725	-36.97	<=23.94	PASS
				5760~5650	-42.32	<=-27	PASS
		High	5825	5850~5855	-40.32	<=19.80	PASS
				5855~5875	-41.18	<=13.24	PASS
				5875~5925	-41.11	<=-10.07	PASS
				5925~5935	-41.48	<=-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-41.52	<=0.77	PASS
				5700~5720	-34.76	<=15.24	PASS

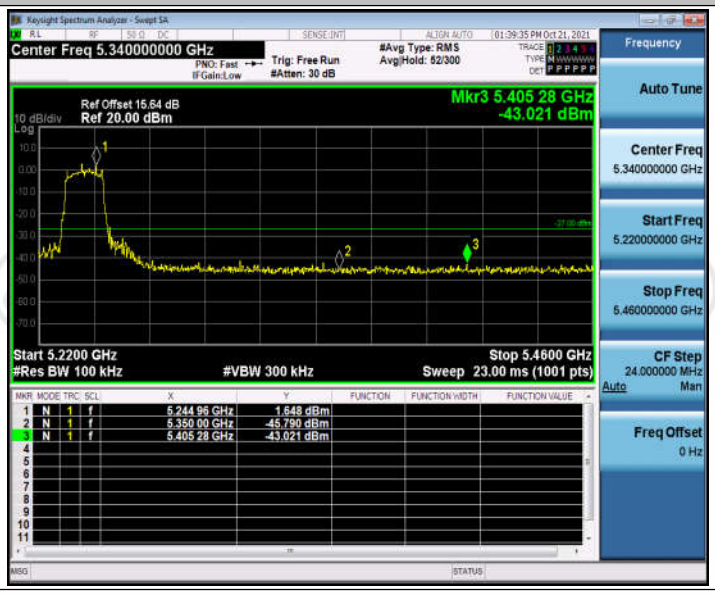
				5720~5725	-32.47	<=21.28	PASS
				5780~5650	-42.5	<=-27	PASS
		High	5795	5850~5855	-42.21	<=16.79	PASS
				5855~5875	-38.76	<=10.50	PASS
				5875~5925	-41.09	<=-2.38	PASS
				5925~5935	-41.72	<=-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-41.69	<=-15.38	PASS
				5700~5720	-41.13	<=15.27	PASS
				5720~5725	-38.46	<=25.52	PASS
				5760~5650	-40.93	<=-27	PASS
		High	5825	5850~5855	-42.33	<=19.80	PASS
				5855~5875	-40.76	<=14.14	PASS
				5875~5925	-41.34	<=-2.78	PASS
				5925~5935	-42.11	<=-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-41.35	<=6.86	PASS
				5700~5720	-36.54	<=15.50	PASS
				5720~5725	-36.41	<=24.05	PASS
				5780~5650	-42.08	<=-27	PASS
		High	5795	5850~5855	-42.78	<=21.68	PASS
				5855~5875	-41.17	<=10.96	PASS
				5875~5925	-40.95	<=-2.87	PASS
				5925~5935	-41.8	<=-27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-36.95	<=7.04	PASS
				5700~5720	-35.41	<=14.00	PASS
				5720~5725	-35.37	<=16.35	PASS
				5800~5650	-42.91	<=-27	PASS
		High	5775	5850~5855	-40.38	<=21.28	PASS
				5855~5875	-38.74	<=13.13	PASS
				5875~5925	-41.26	<=-3.55	PASS
				5925~5935	-41.26	<=-27	PASS

Test Graphs

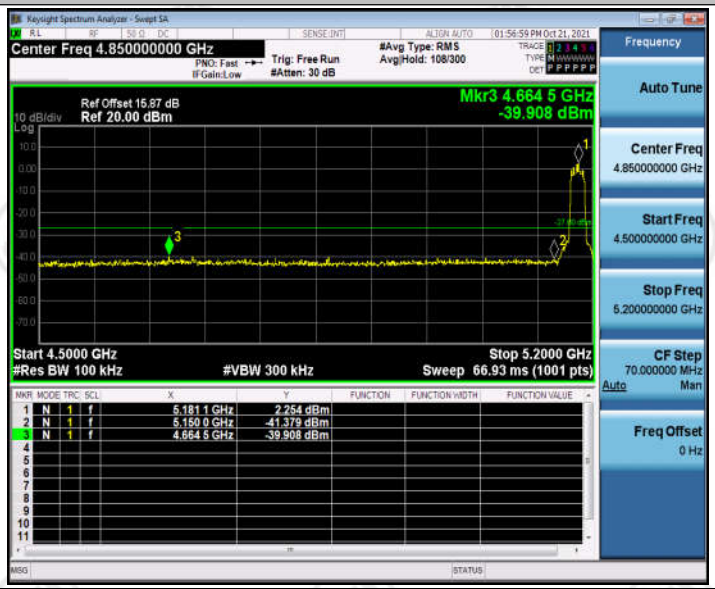
11A_Ant1_Low_5180



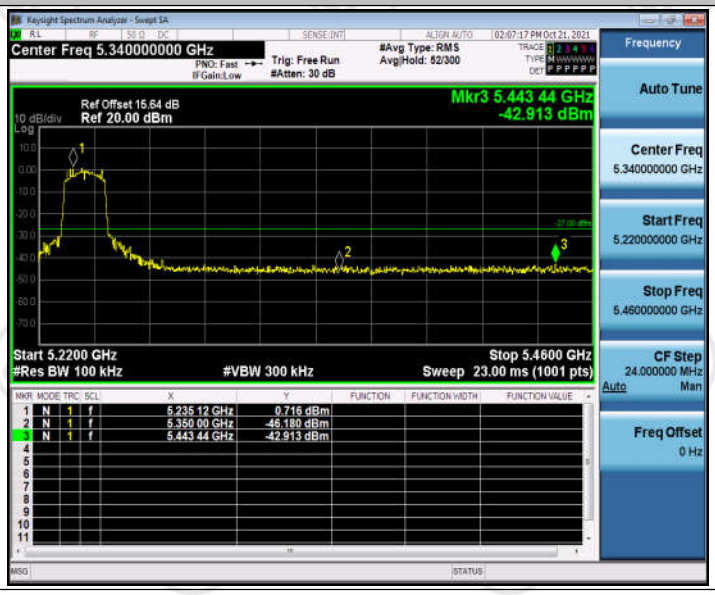
11A_Ant1_High_5240



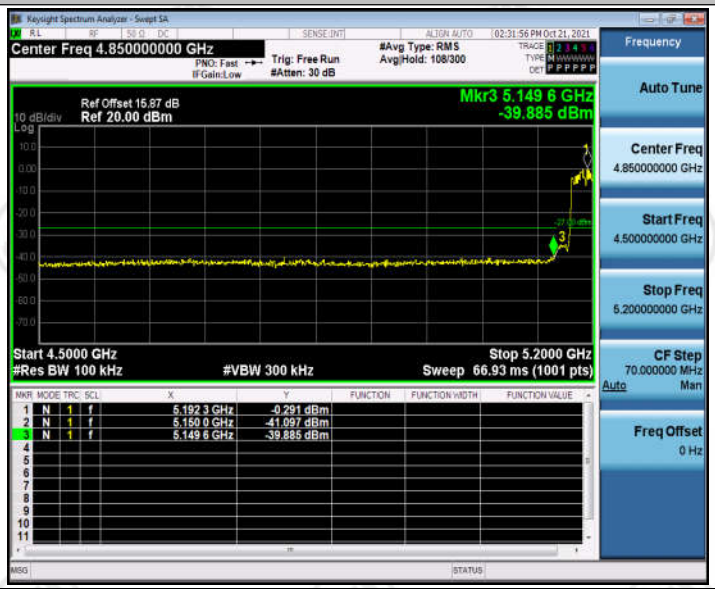
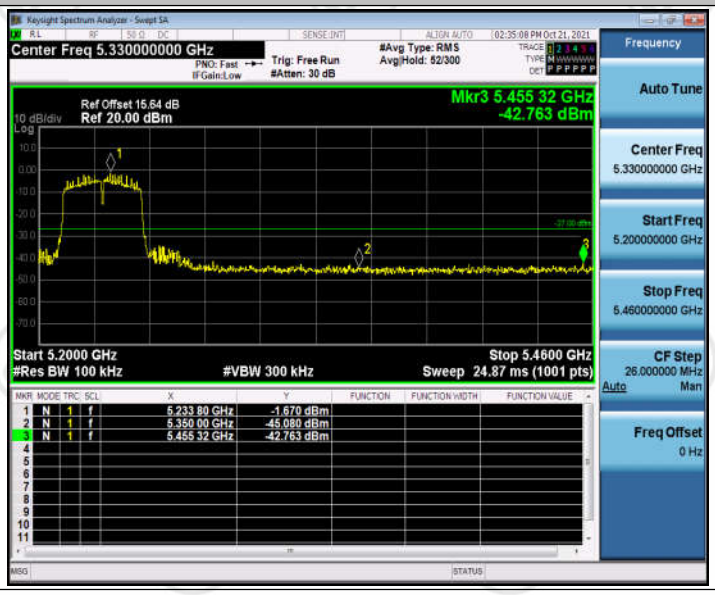
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



11N40SISO_Ant1_Low_5190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