



Appendix E

RF Test Data for 5G WIFI (Conducted Measurement)

Product Name: TABLET PC

Trade Mark: Simbans

Test Model: Picasso Tab _ XL

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



Appendix E.1: Duty Cycle

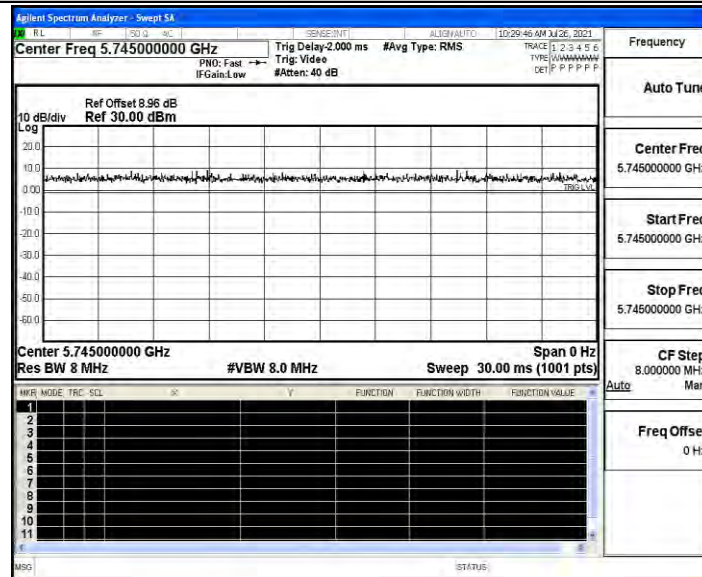
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5745	30.00	30.00	100.00	---	PASS
		5785	30.00	30.00	100.00	---	PASS
		5825	30.00	30.00	100.00	---	PASS
11N20SISO	Ant1	5745	30.00	30.00	100.00	---	PASS
		5785	30.00	30.00	100.00	---	PASS
		5825	30.00	30.00	100.00	---	PASS
11N40SISO	Ant1	5755	30.00	30.00	100.00	---	PASS
		5795	30.00	30.00	100.00	---	PASS
11AC20SISO	Ant1	5745	30.00	30.00	100.00	---	PASS
		5785	30.00	30.00	100.00	---	PASS
		5825	30.00	30.00	100.00	---	PASS
11AC40SISO	Ant1	5755	30.00	30.00	100.00	---	PASS
		5795	30.00	30.00	100.00	---	PASS
11AC80SISO	Ant1	5775	30.00	30.00	100.00	---	PASS

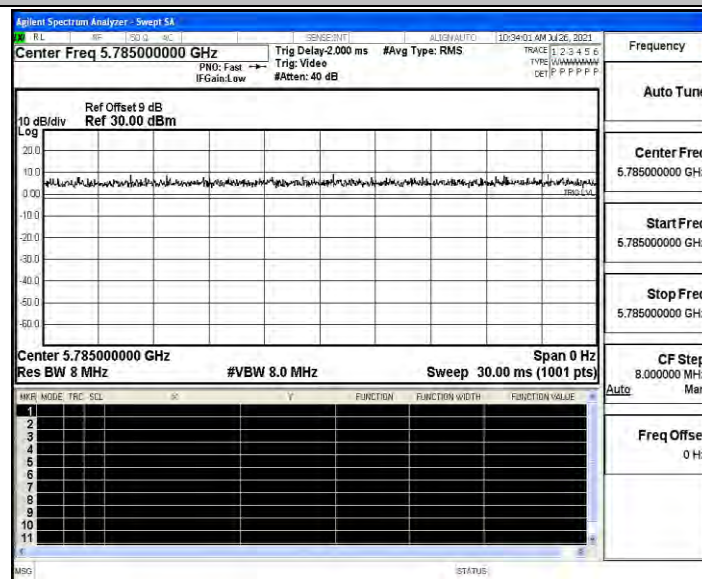


Test Graphs

11A_Ant1_5745

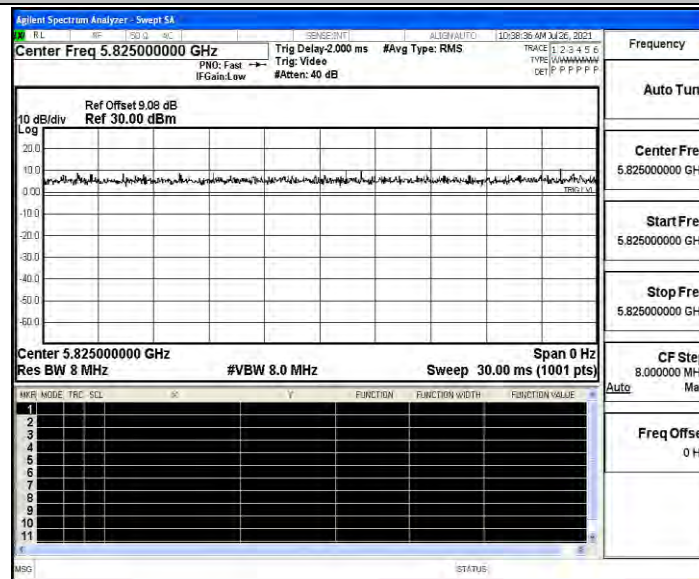


11A_Ant1_5785

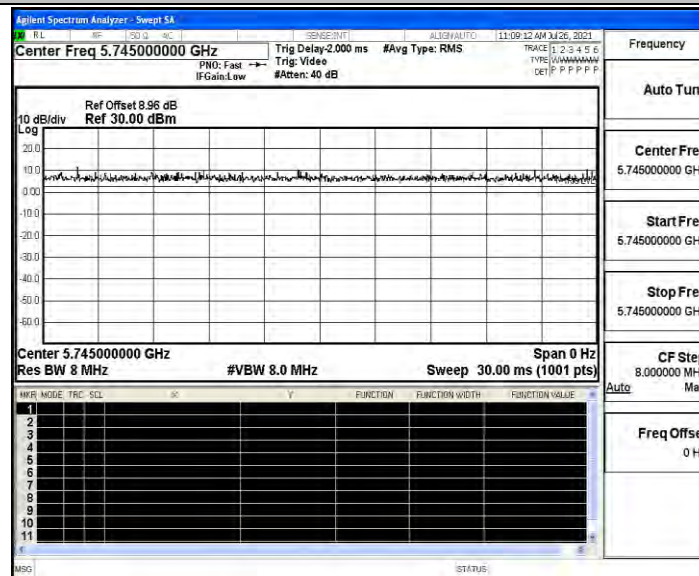




11A_Ant1_5825

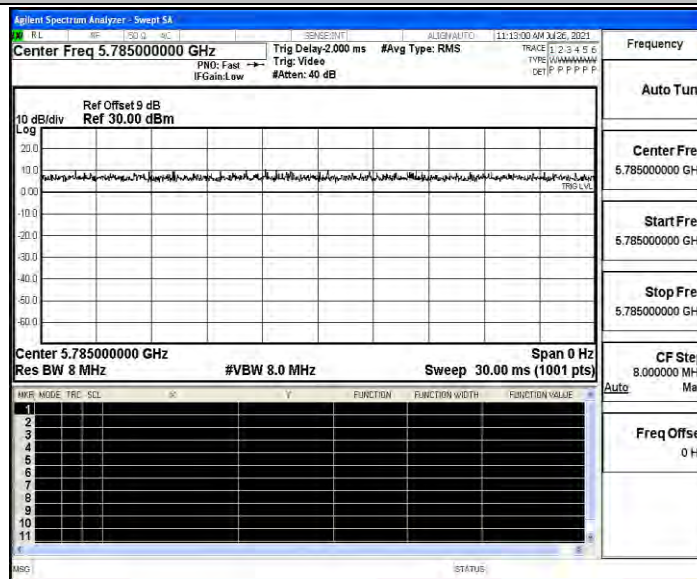


11N20SISO_Ant1_5745

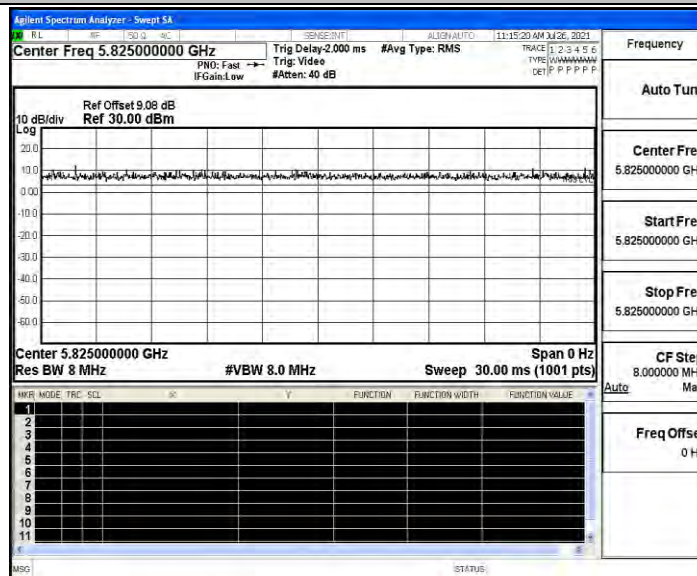




11N20SISO_Ant1_5785

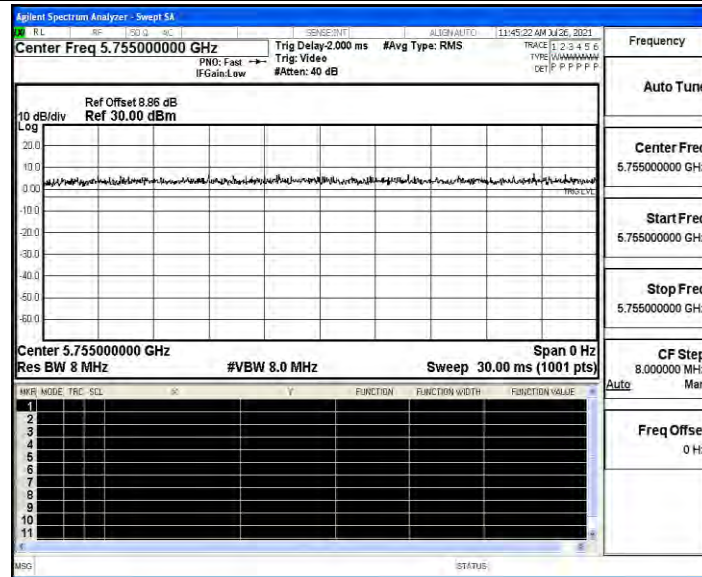


11N20SISO_Ant1_5825

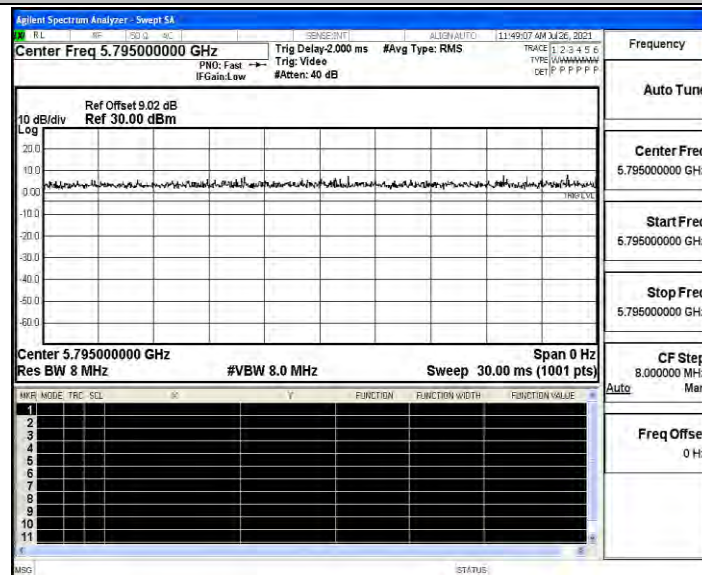




11N40SISO_Ant1_5755

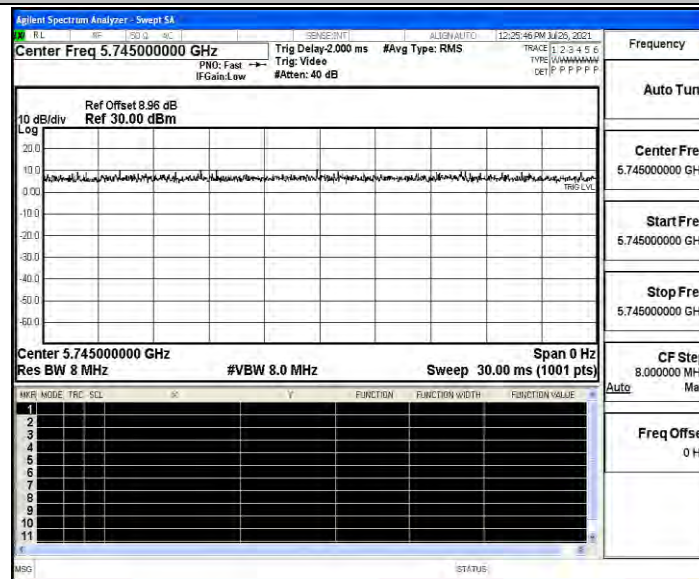


11N40SISO_Ant1_5795

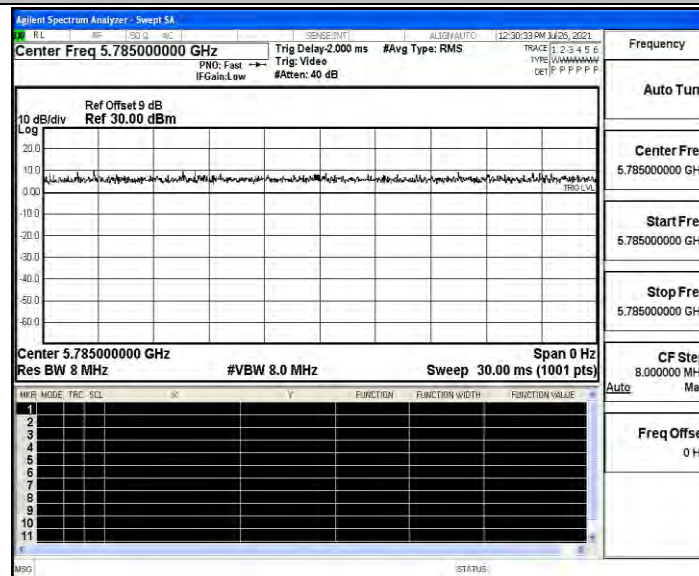




11AC20SISO_Ant1_5745

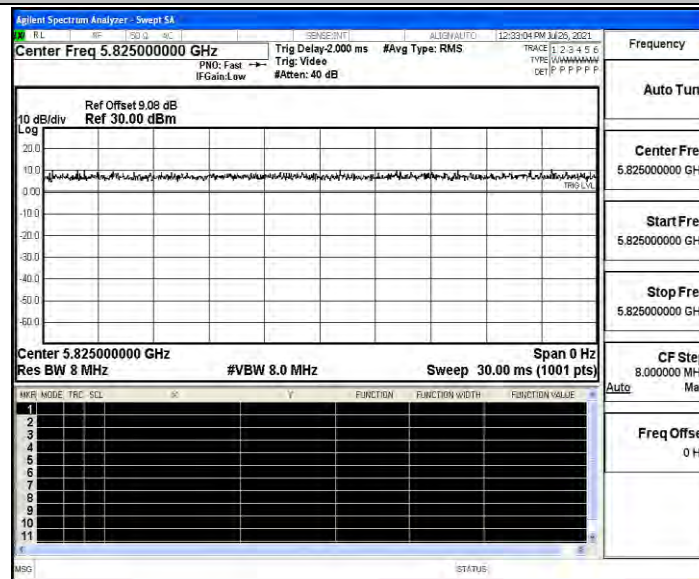


11AC20SISO_Ant1_5785

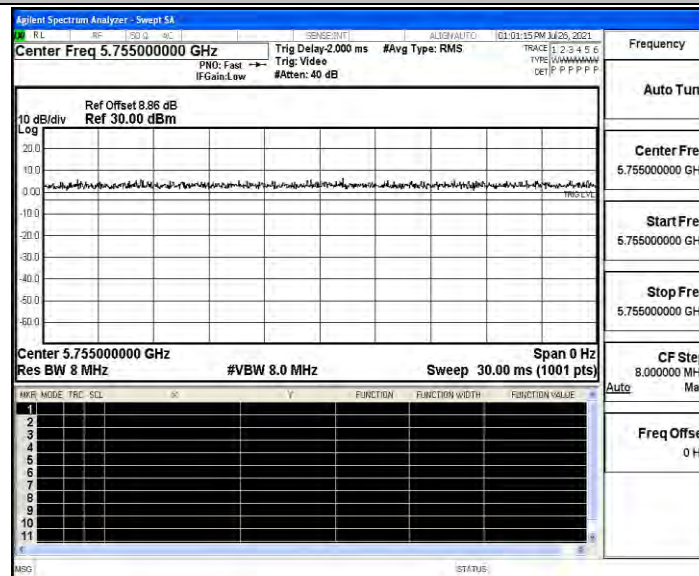




11AC20SISO_Ant1_5825

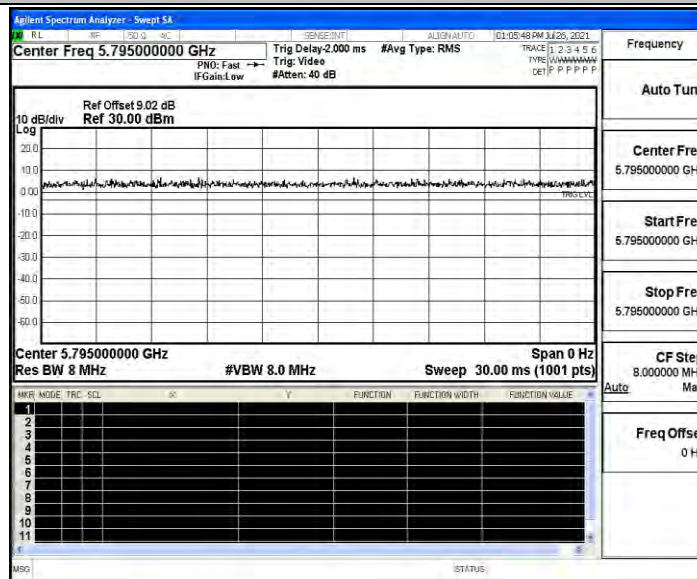


11AC40SISO_Ant1_5755

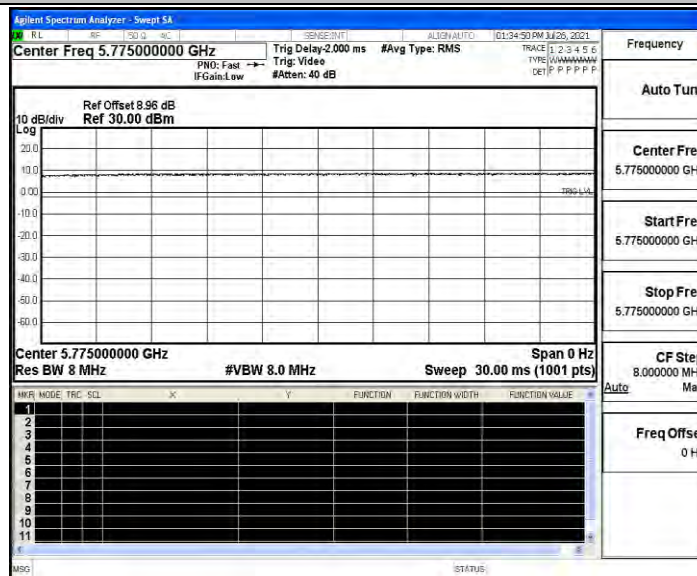




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





Appendix E.2: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	5.31	≤30	PASS
		5785	5.68	≤30	PASS
		5825	6.00	≤30	PASS
11N20SISO	Ant1	5745	5.21	≤30	PASS
		5785	5.59	≤30	PASS
		5825	5.91	≤30	PASS
11N40SISO	Ant1	5755	5.27	≤30	PASS
		5795	5.57	≤30	PASS
11AC20SISO	Ant1	5745	5.25	≤30	PASS
		5785	5.62	≤30	PASS
		5825	5.93	≤30	PASS
11AC40SISO	Ant1	5755	5.26	≤30	PASS
		5795	5.55	≤30	PASS
11AC80SISO	Ant1	5775	4.74	≤30	PASS

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

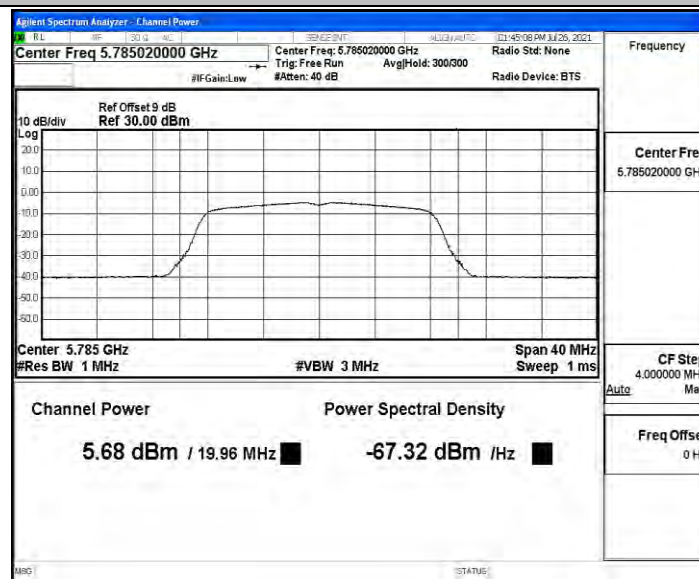


Test Graphs

11A_Ant1_5745

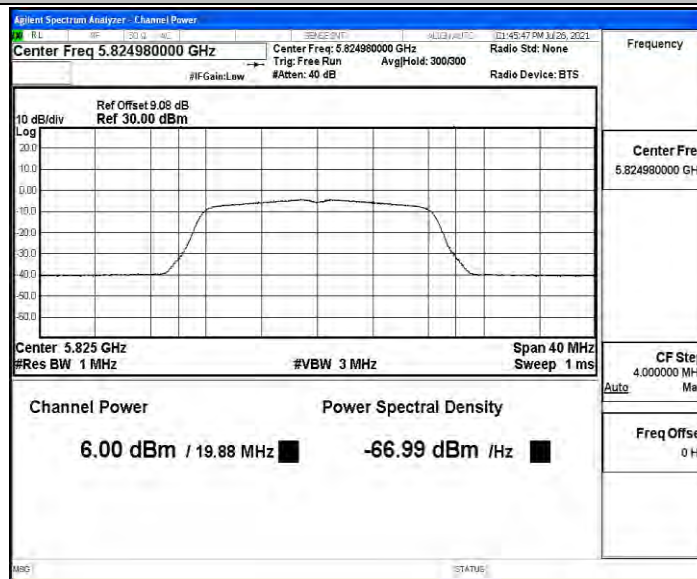


11A_Ant1_5785

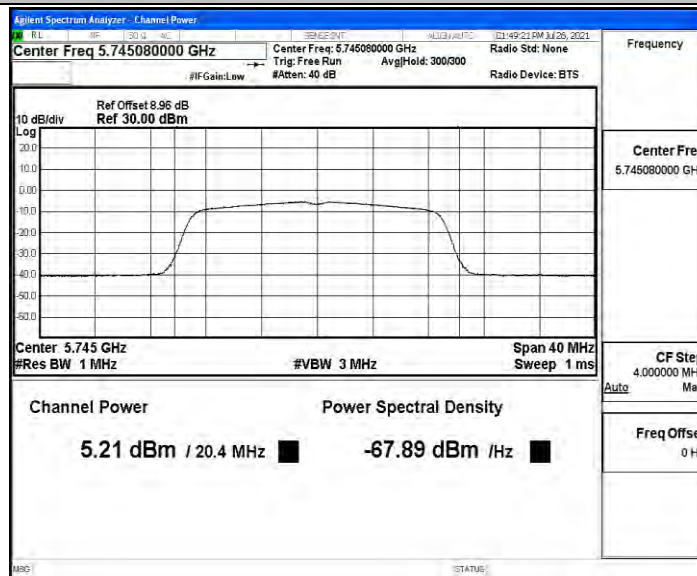




11A_Ant1_5825

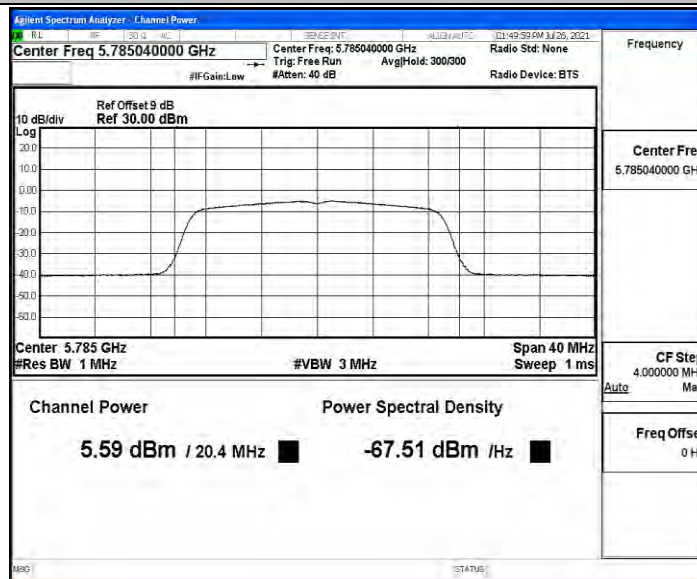


11N20SISO_Ant1_5745

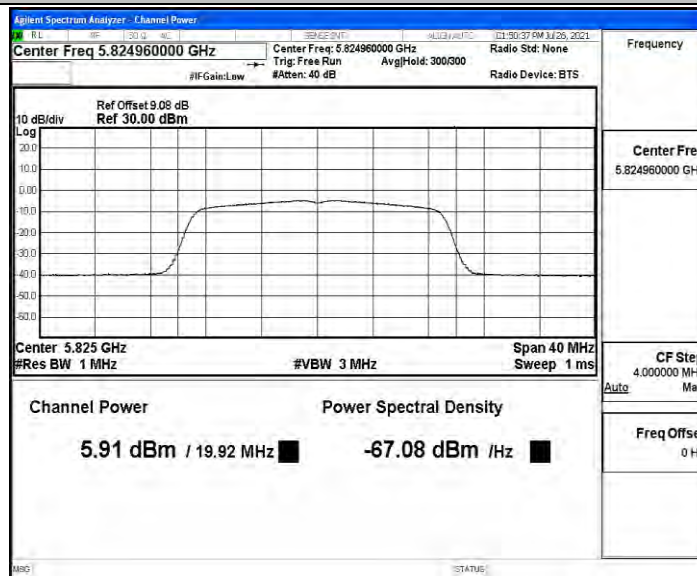




11N20SISO_Ant1_5785

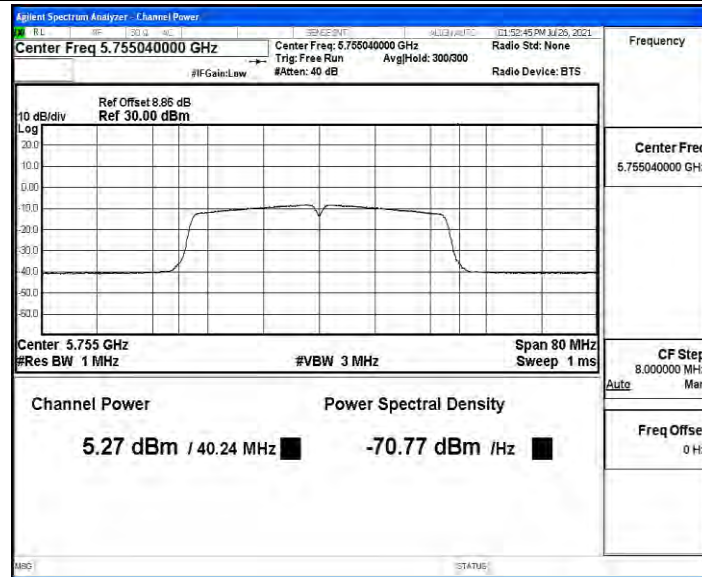


11N20SISO_Ant1_5825

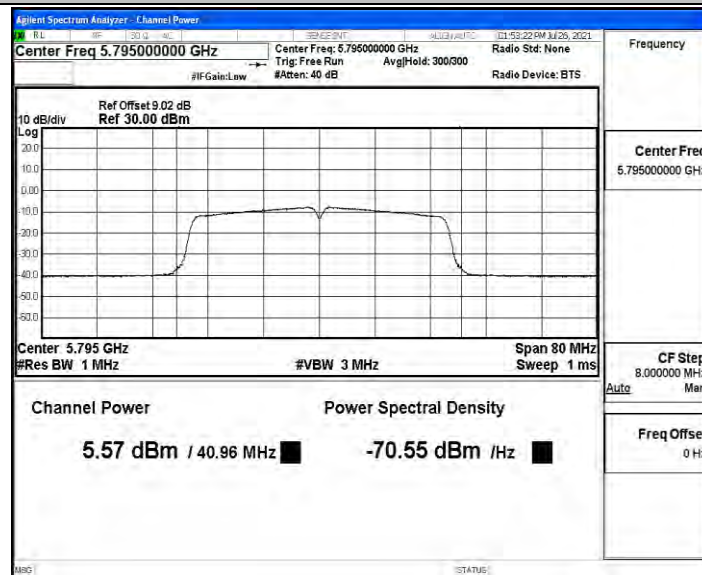




11N40SISO_Ant1_5755

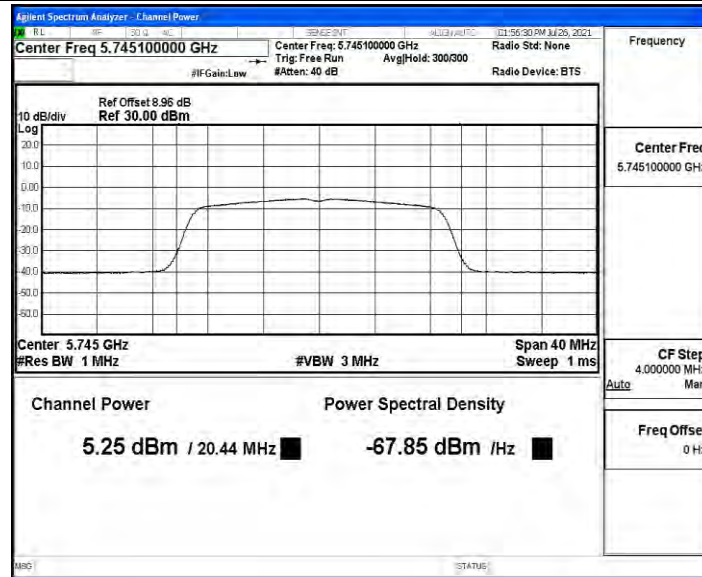


11N40SISO_Ant1_5795

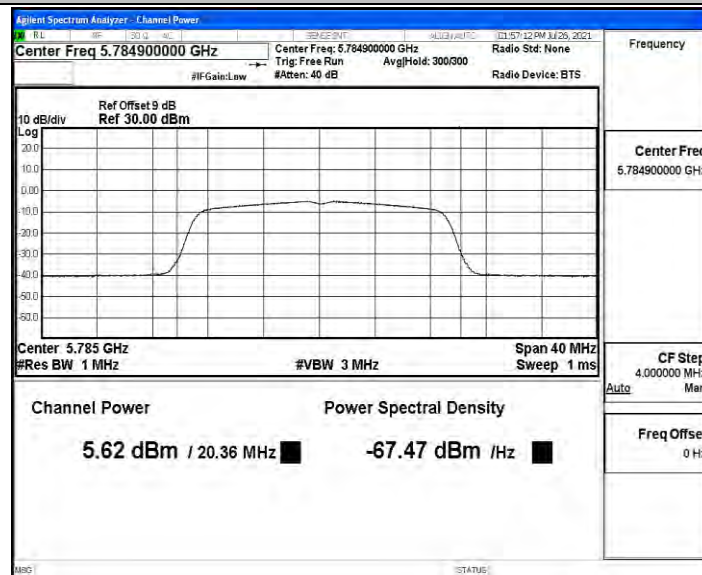




11AC20SISO_Ant1_5745

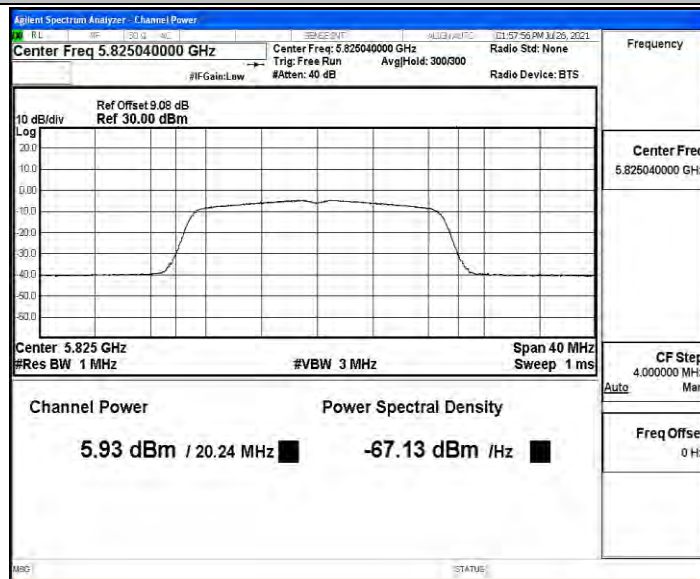


11AC20SISO_Ant1_5785

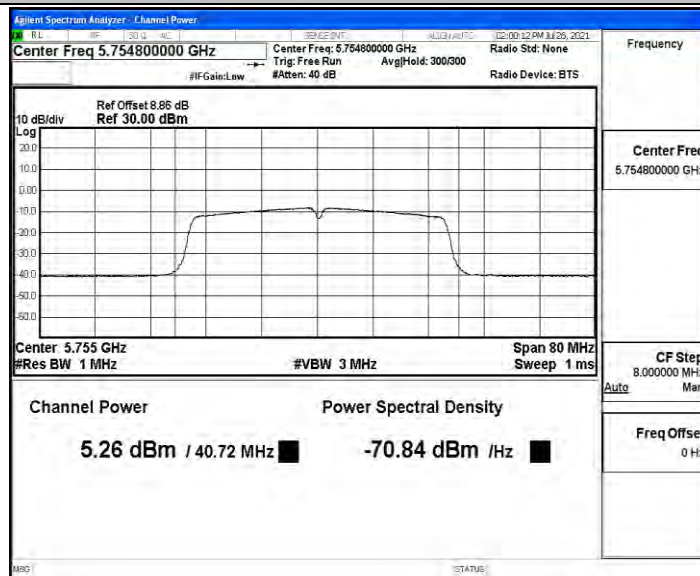




11AC20SISO_Ant1_5825

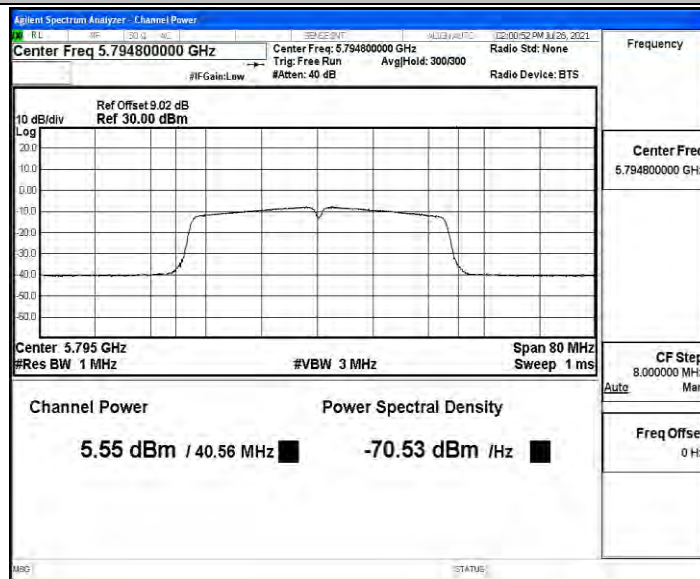


11AC40SISO_Ant1_5755

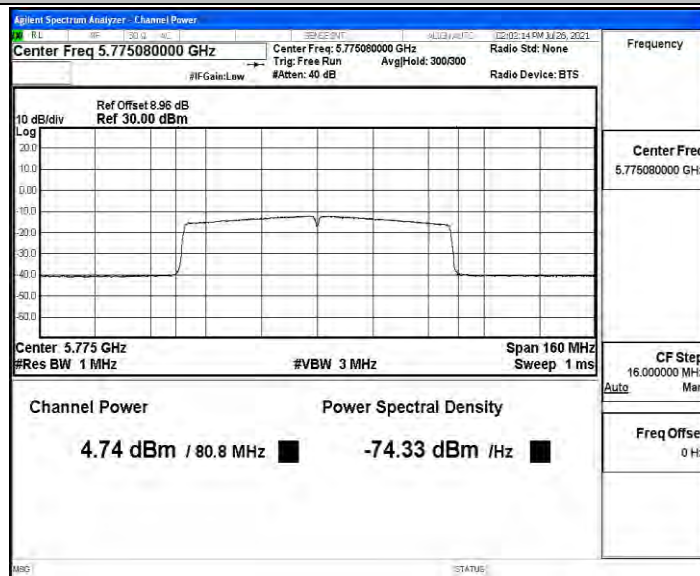




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





Appendix E.3: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	RBW Factor =10 log (500 kHz/RBW)	Report Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	-7.85	2.22	-5.63	≤30	PASS
		5785	-7.35	2.22	-5.13	≤30	PASS
		5825	-7.06	2.22	-4.84	≤30	PASS
11N20SISO	Ant1	5745	-7.89	2.22	-5.67	≤30	PASS
		5785	-7.49	2.22	-5.27	≤30	PASS
		5825	-7.39	2.22	-5.17	≤30	PASS
11N40SISO	Ant1	5755	-10.83	2.22	-8.61	≤30	PASS
		5795	-10.61	2.22	-8.39	≤30	PASS
11AC20SISO	Ant1	5745	-7.99	2.22	-5.77	≤30	PASS
		5785	-7.70	2.22	-5.48	≤30	PASS
		5825	-7.38	2.22	-5.16	≤30	PASS
11AC40SISO	Ant1	5755	-10.84	2.22	-8.62	≤30	PASS
		5795	-10.77	2.22	-8.55	≤30	PASS
11AC80SISO	Ant1	5775	-14.99	2.22	-12.77	≤30	PASS

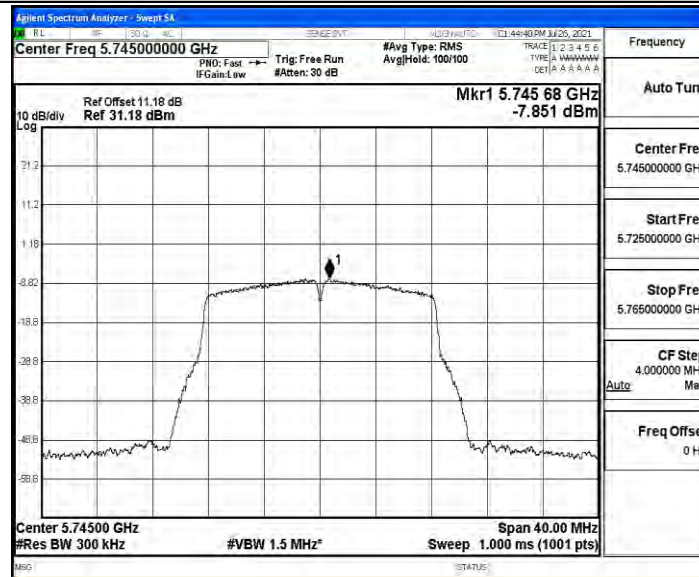
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

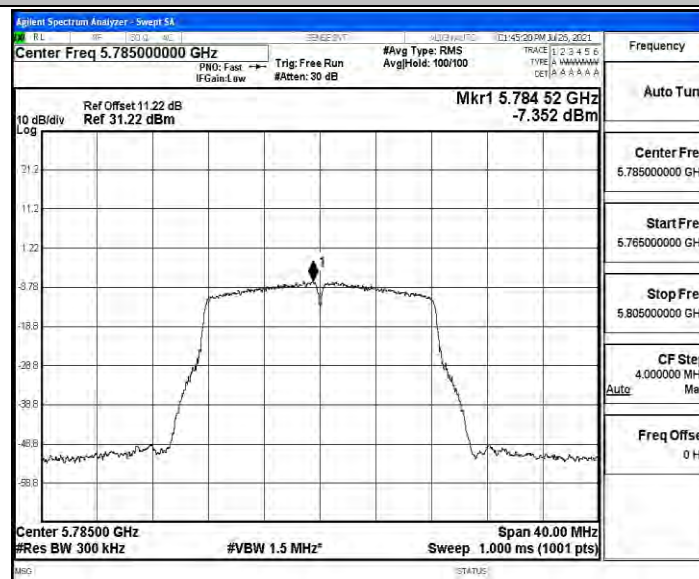


Test Graphs

11A_Ant1_5745

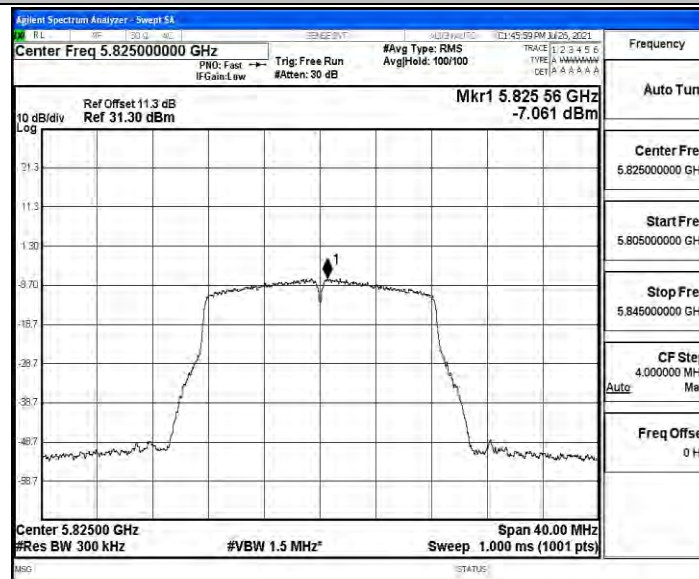


11A_Ant1_5785

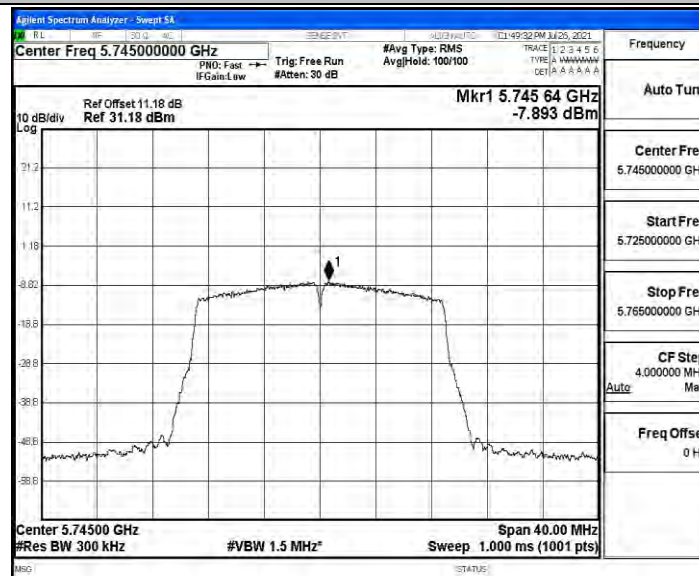




11A_Ant1_5825

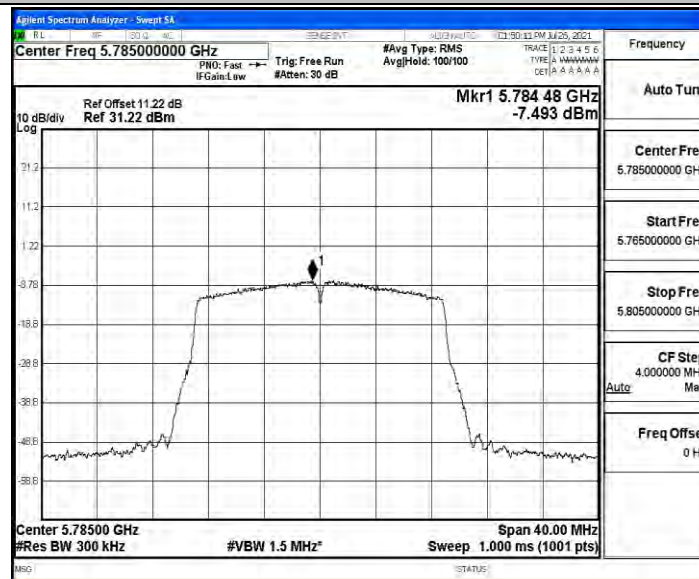


11N20SISO_Ant1_5745

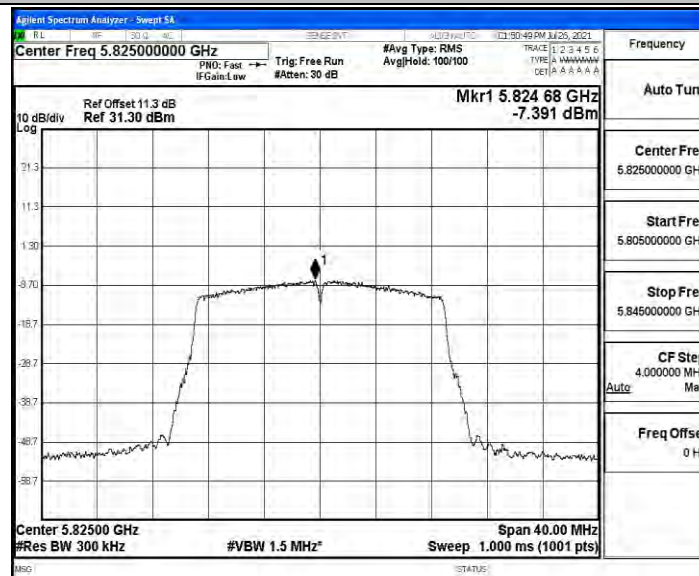




11N20SISO_Ant1_5785

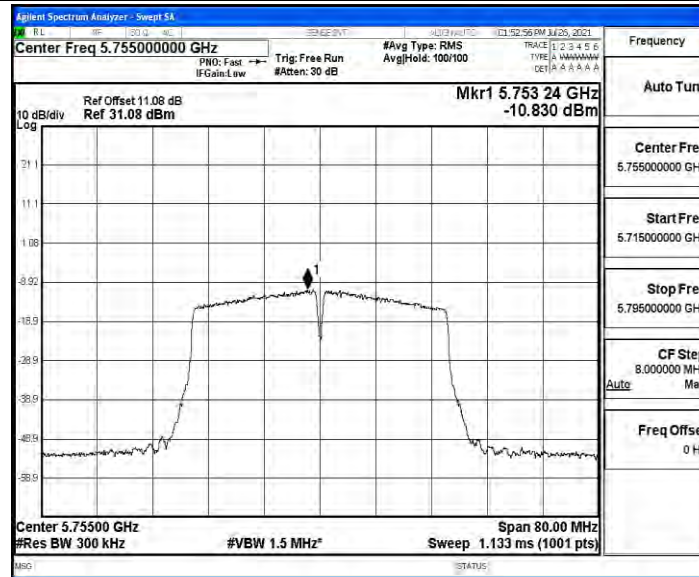


11N20SISO_Ant1_5825

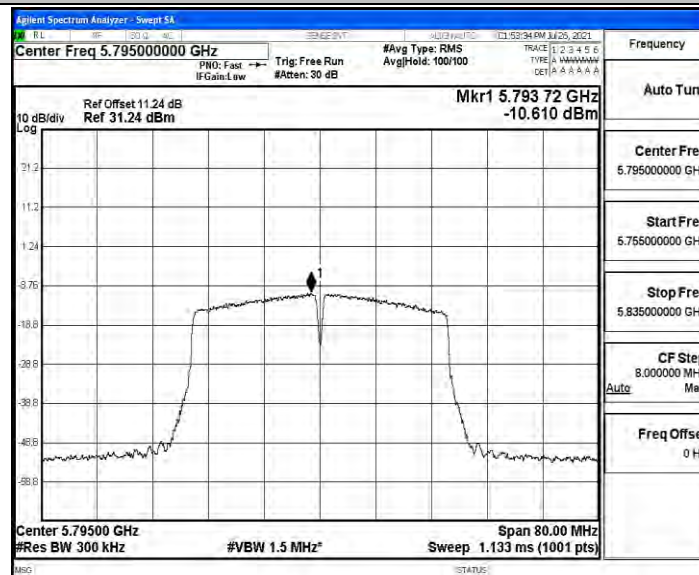




11N40SISO_Ant1_5755

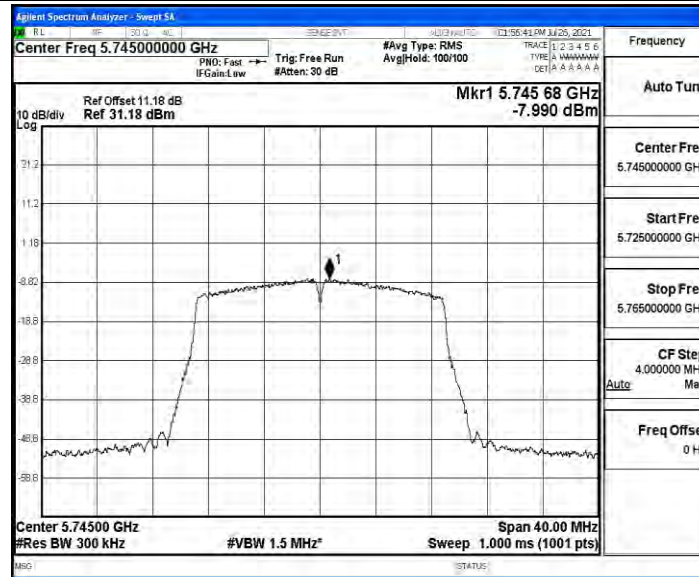


11N40SISO_Ant1_5795

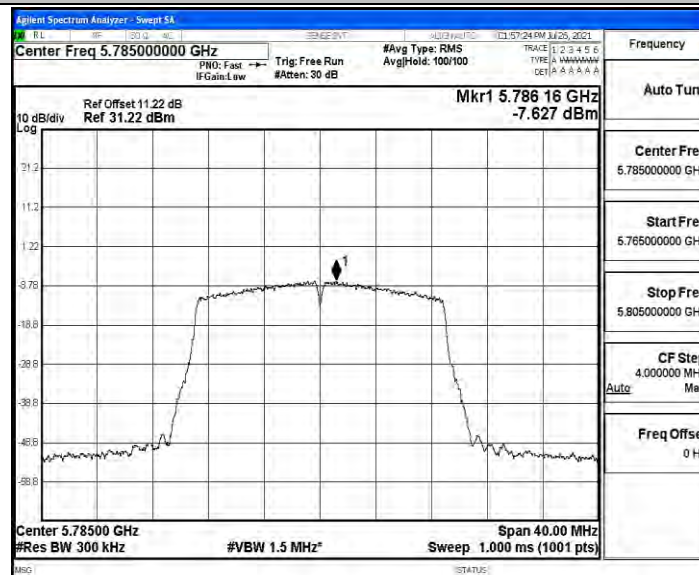




11AC20SISO_Ant1_5745

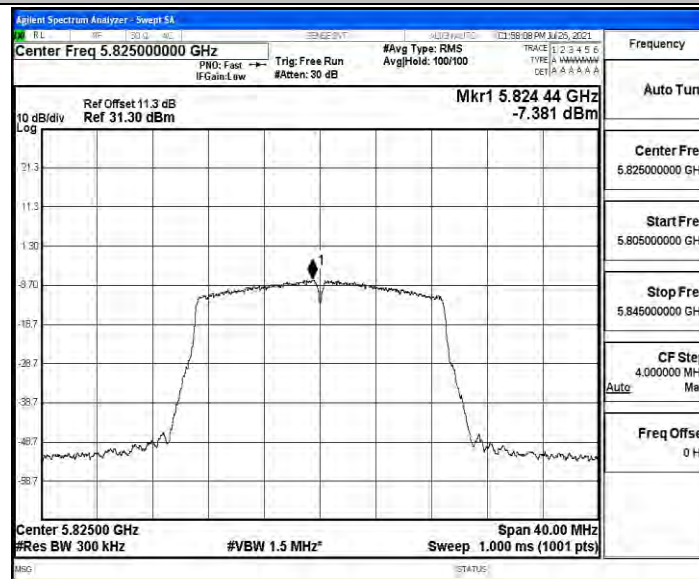


11AC20SISO_Ant1_5785

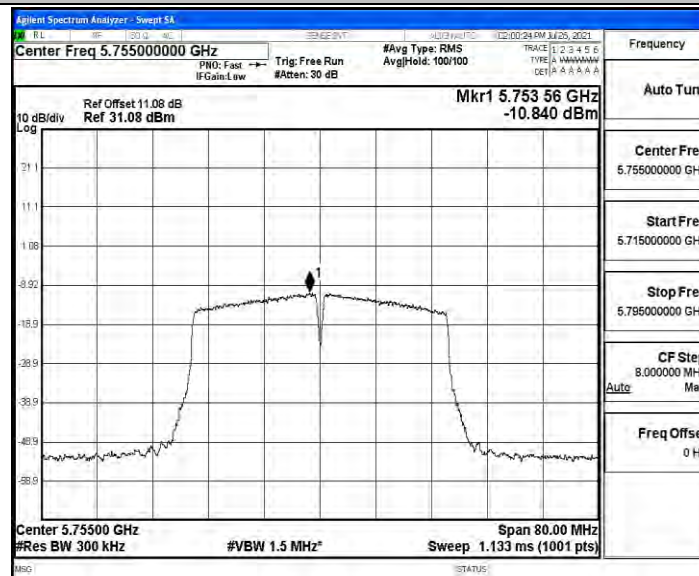




11AC20SISO_Ant1_5825

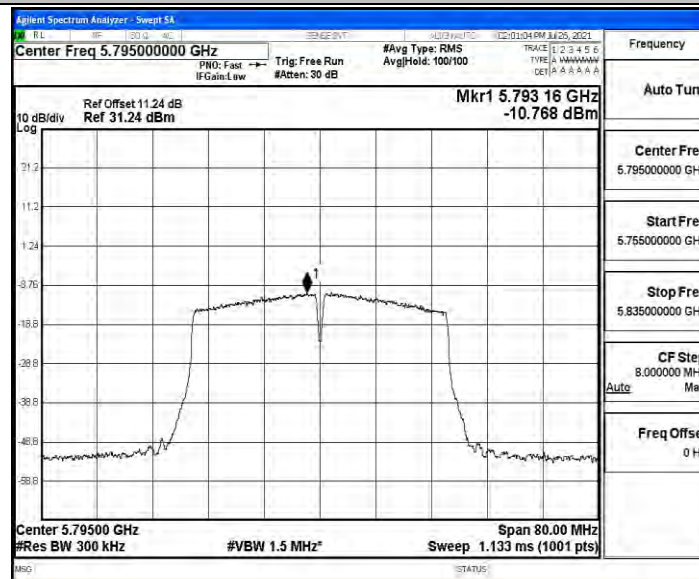


11AC40SISO_Ant1_5755

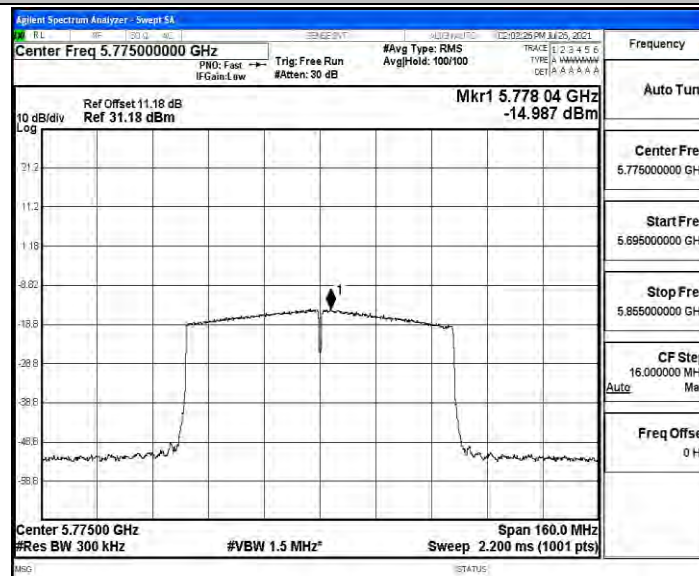




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





Appendix E.4.1: Emission Bandwidth

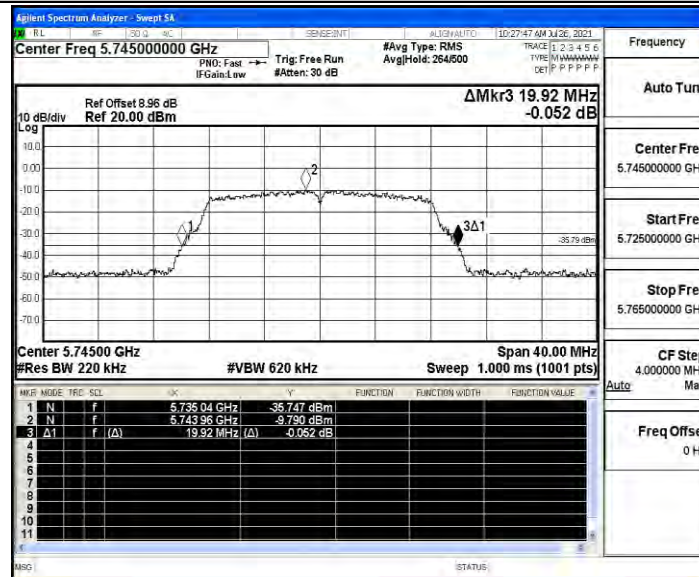
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	19.920	5735.040	5754.960	---	PASS
		5785	19.960	5775.040	5795.000	---	PASS
		5825	19.880	5815.040	5834.920	---	PASS
11N20SISO	Ant1	5745	20.400	5734.880	5755.280	---	PASS
		5785	20.400	5774.840	5795.240	---	PASS
		5825	19.920	5815.000	5834.920	---	PASS
11N40SISO	Ant1	5755	40.240	5734.920	5775.160	---	PASS
		5795	40.960	5774.520	5815.480	---	PASS
11AC20SISO	Ant1	5745	20.440	5734.880	5755.320	---	PASS
		5785	20.360	5774.720	5795.080	---	PASS
		5825	20.240	5814.920	5835.160	---	PASS
11AC40SISO	Ant1	5755	40.720	5734.440	5775.160	---	PASS
		5795	40.560	5774.520	5815.080	---	PASS
11AC80SISO	Ant1	5775	80.800	5734.680	5815.480	---	PASS



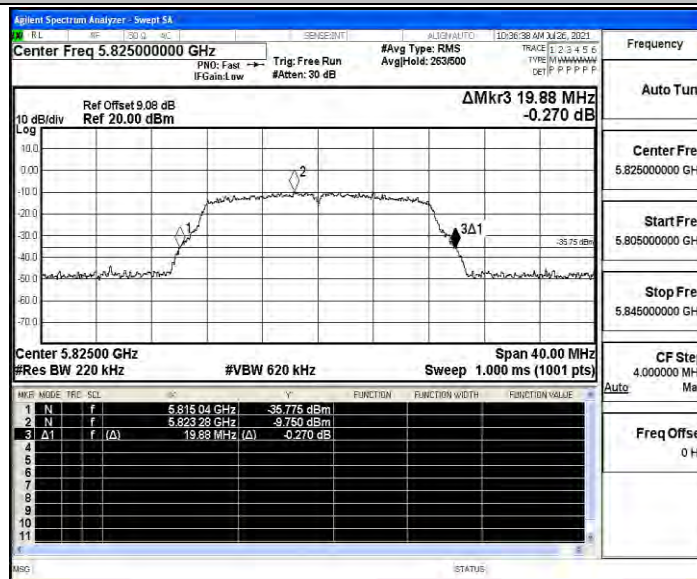
Test Graphs

11A_Ant1_5745

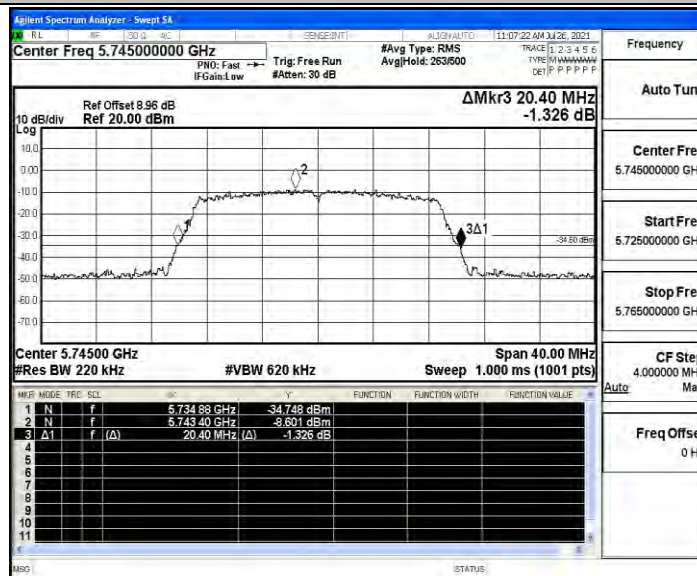




11A_Ant1_5825

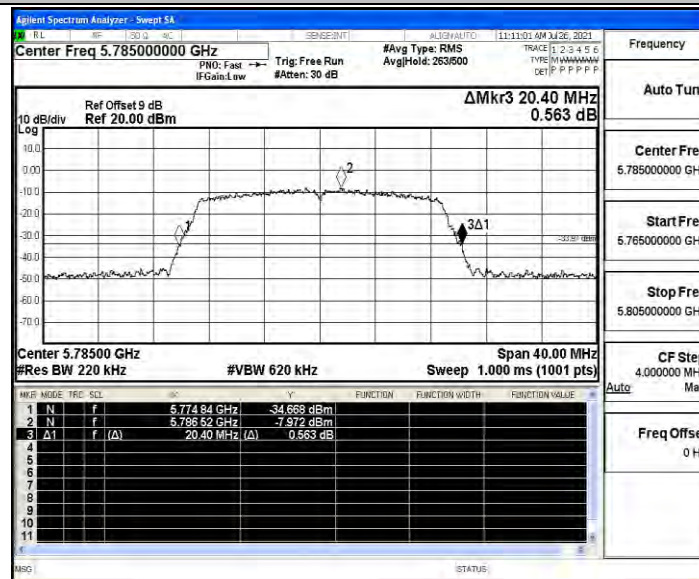


11N20SISO_Ant1_5745

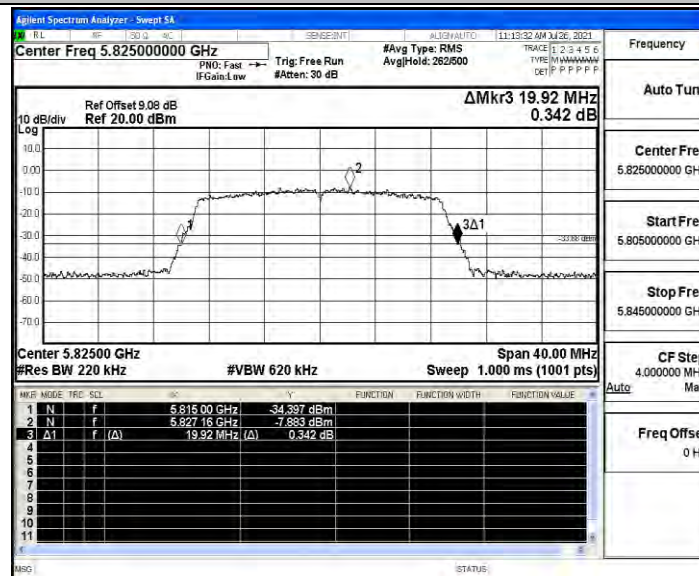




11N20SISO_Ant1_5785

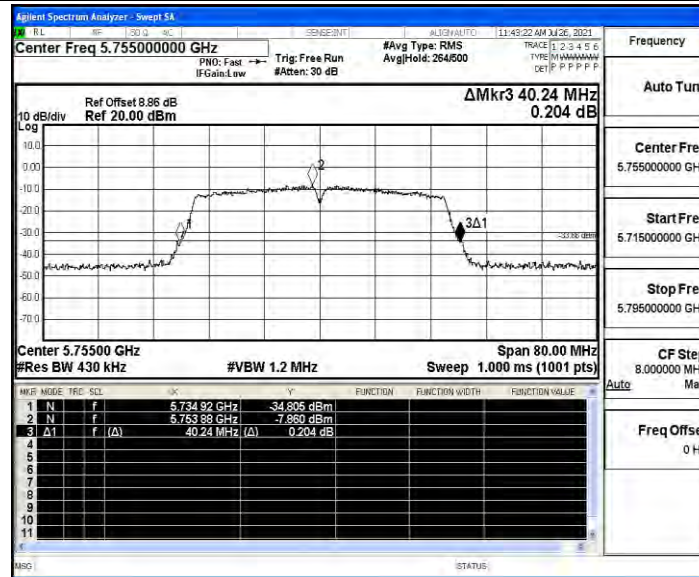


11N20SISO_Ant1_5825

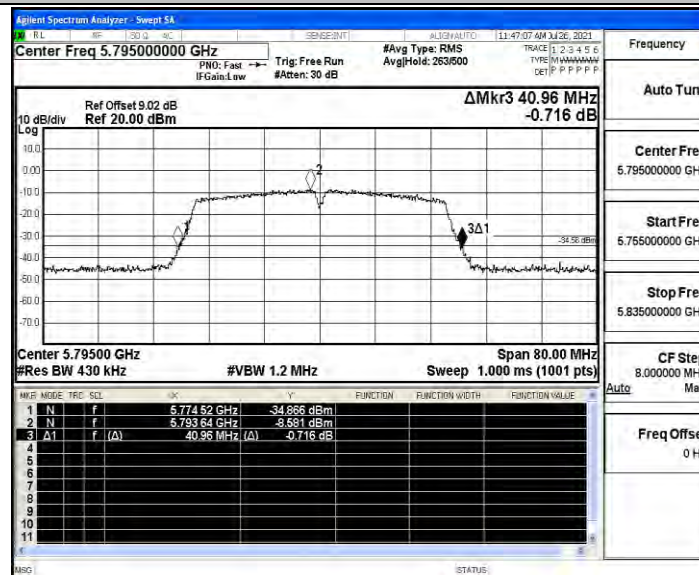




11N40SISO_Ant1_5755

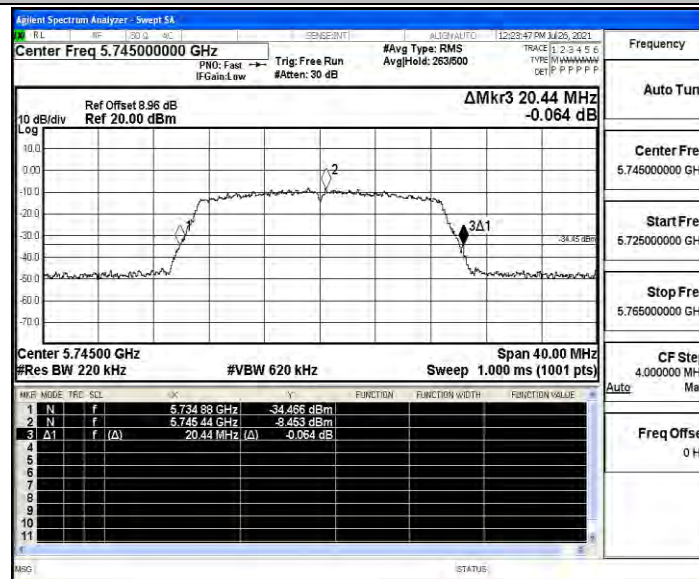


11N40SISO_Ant1_5795

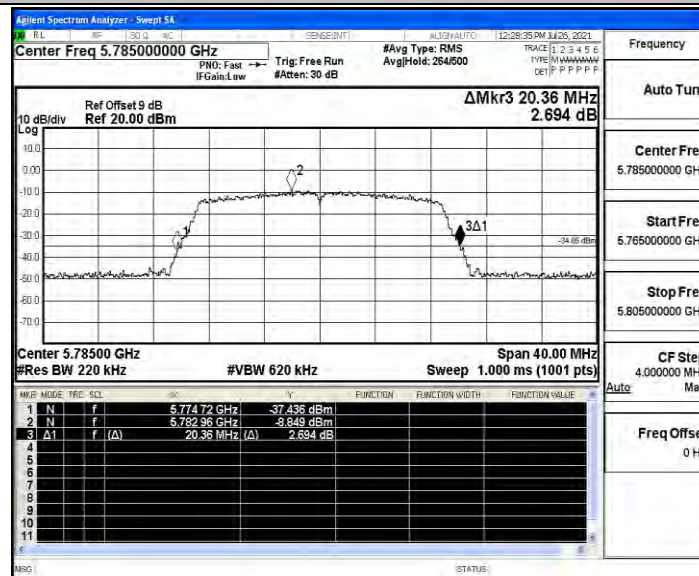




11AC20SISO_Ant1_5745

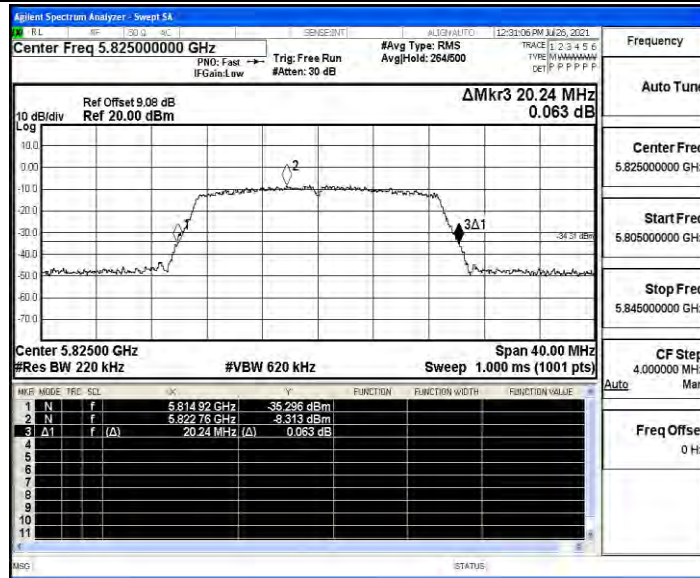


11AC20SISO_Ant1_5785

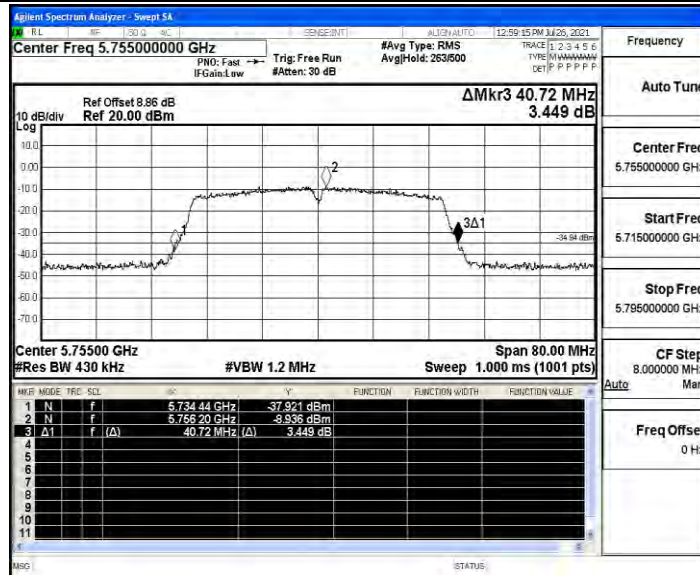




11AC20SISO_Ant1_5825

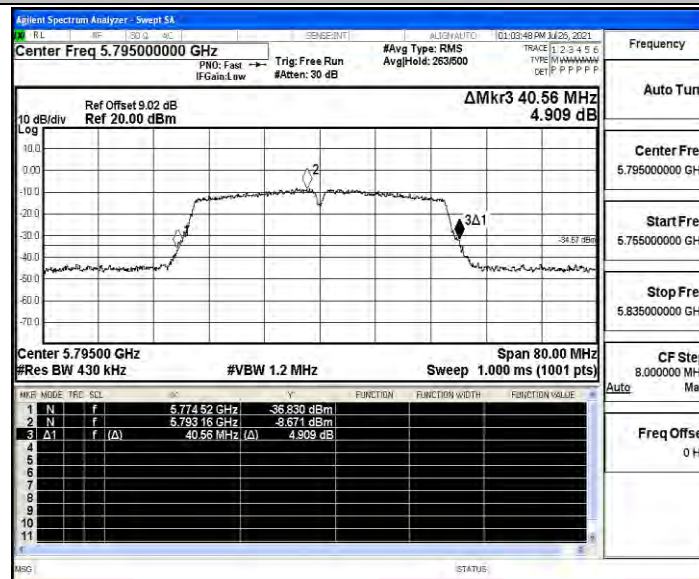


11AC40SISO_Ant1_5755

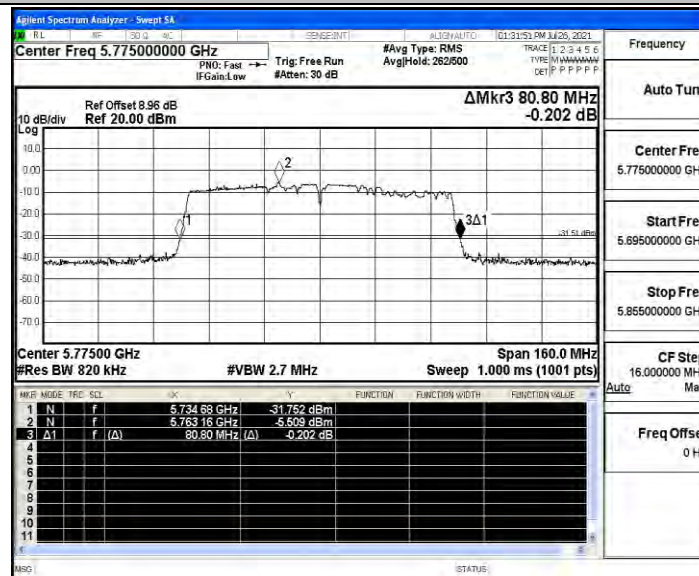




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





Appendix E.4.2: Occupied channel bandwidth

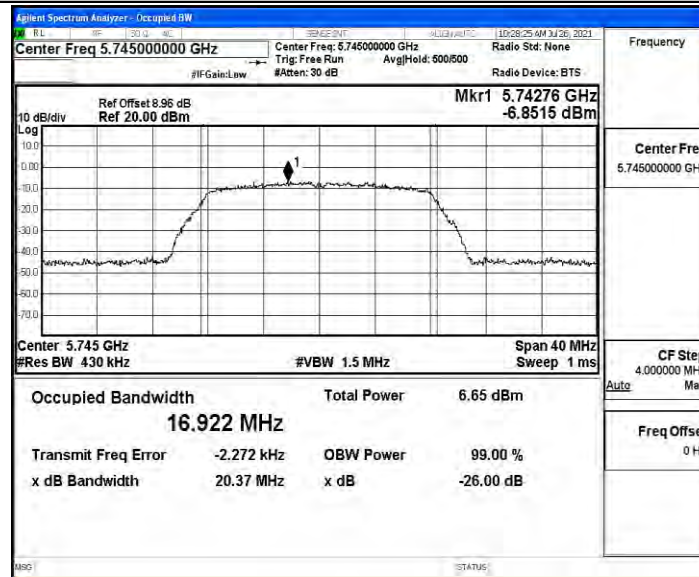
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.922	5736.537	5753.459	---	PASS
		5785	16.892	5776.579	5793.471	---	PASS
		5825	16.916	5816.546	5833.462	---	PASS
11N20SISO	Ant1	5745	17.853	5736.081	5753.934	---	PASS
		5785	17.797	5776.113	5793.910	---	PASS
		5825	17.826	5816.095	5833.921	---	PASS
11N40SISO	Ant1	5755	36.264	5736.828	5773.092	---	PASS
		5795	36.319	5776.827	5813.146	---	PASS
11AC20SISO	Ant1	5745	17.868	5736.072	5753.940	---	PASS
		5785	17.867	5776.066	5793.933	---	PASS
		5825	17.831	5816.075	5833.906	---	PASS
11AC40SISO	Ant1	5755	36.276	5736.878	5773.154	---	PASS
		5795	36.263	5776.881	5813.144	---	PASS
11AC80SISO	Ant1	5775	75.409	5737.236	5812.645	---	PASS

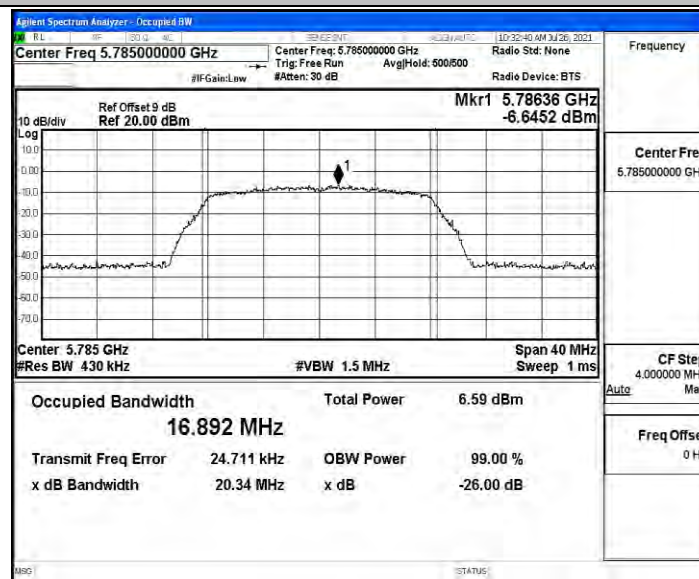


Test Graphs

11A_Ant1_5745

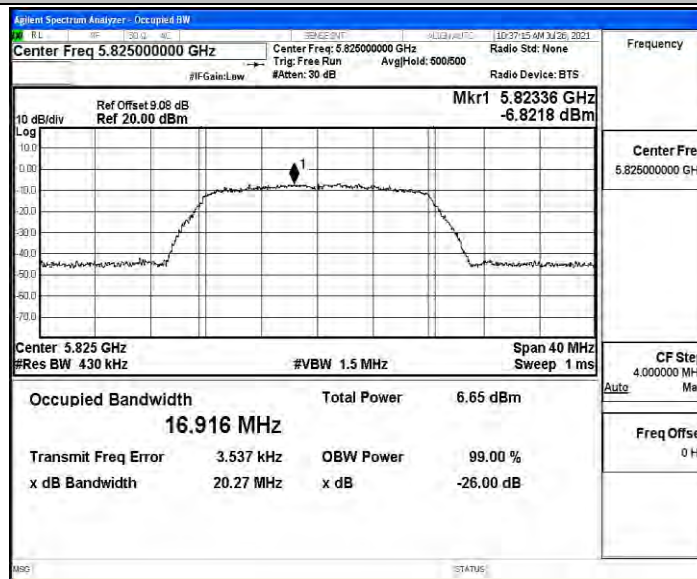


11A_Ant1_5785

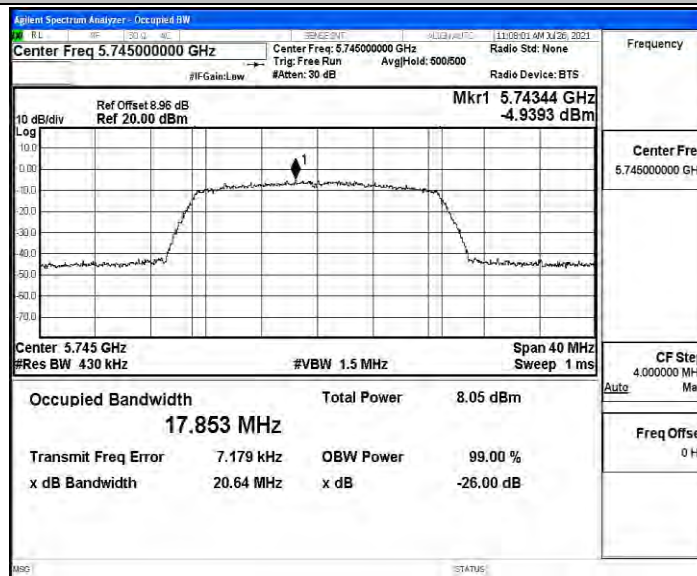




11A_Ant1_5825

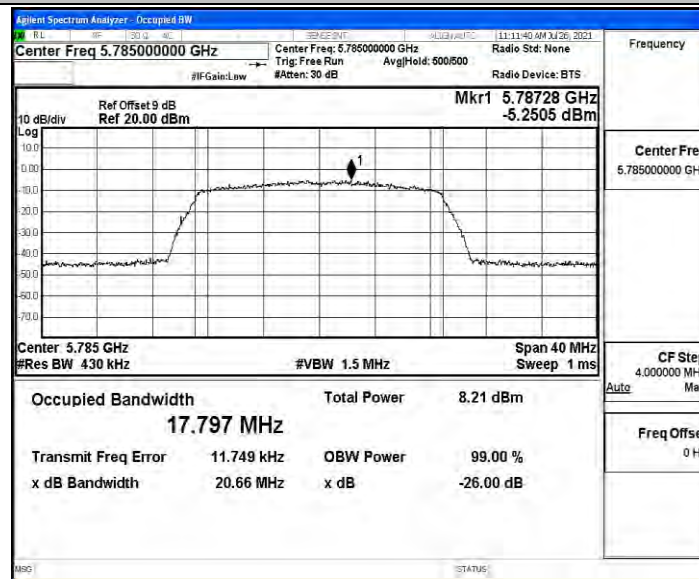


11N20SISO_Ant1_5745

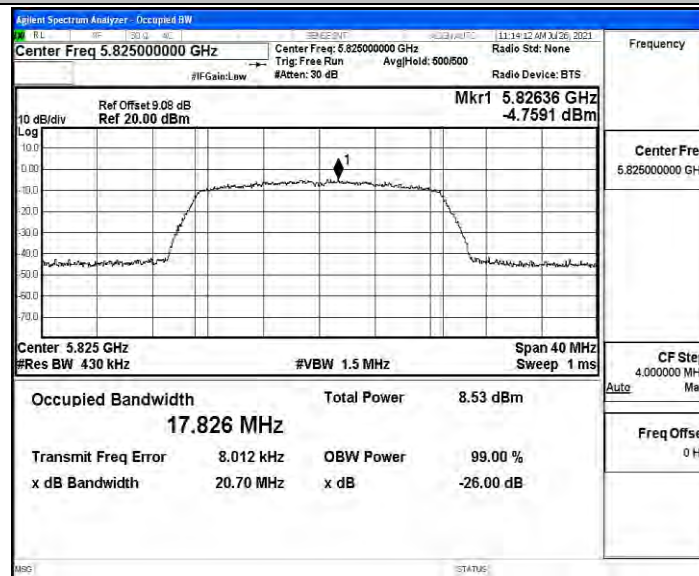




11N20SISO_Ant1_5785

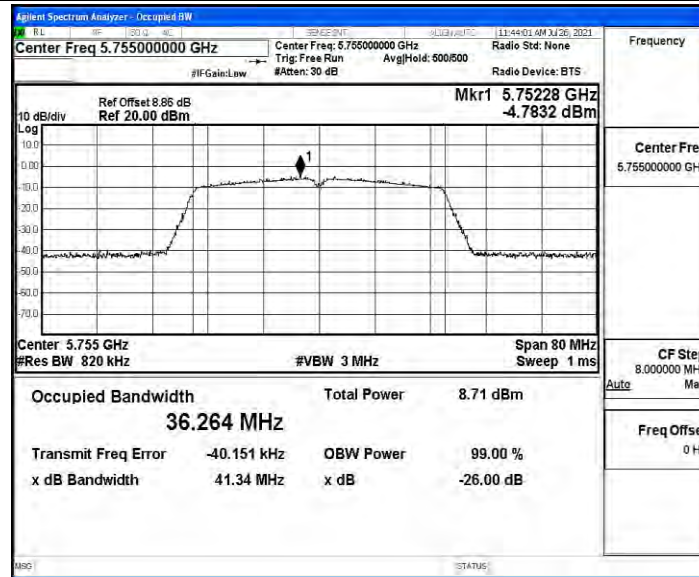


11N20SISO_Ant1_5825

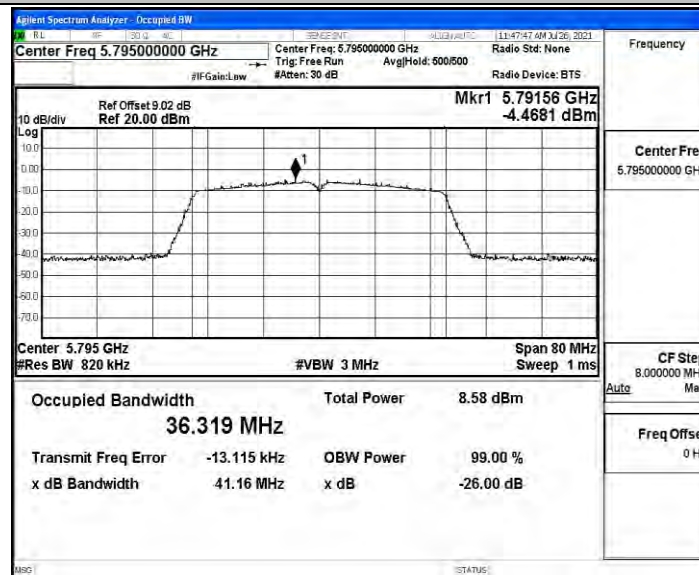




11N40SISO_Ant1_5755

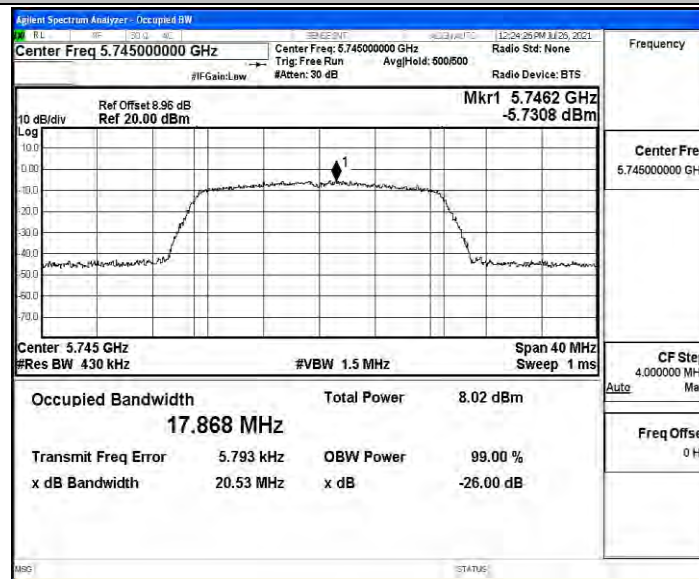


11N40SISO_Ant1_5795

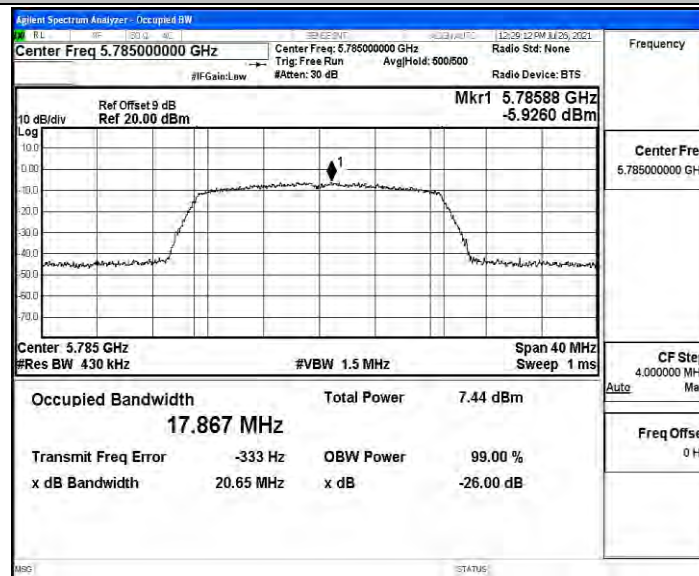




11AC20SISO_Ant1_5745

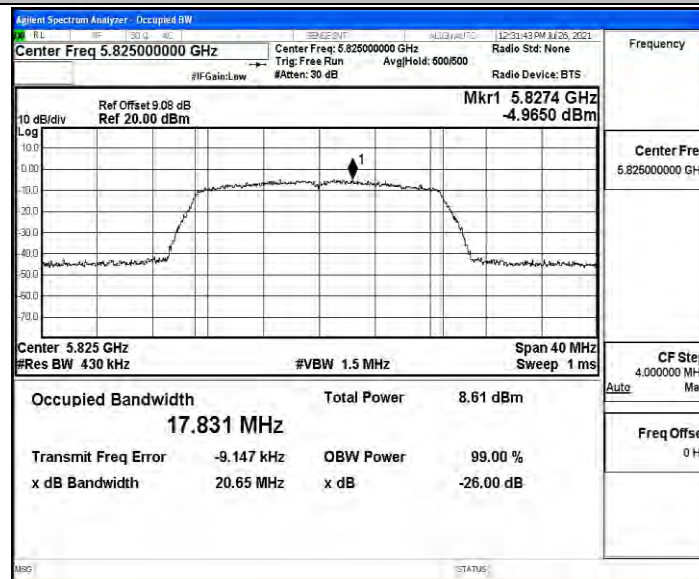


11AC20SISO_Ant1_5785

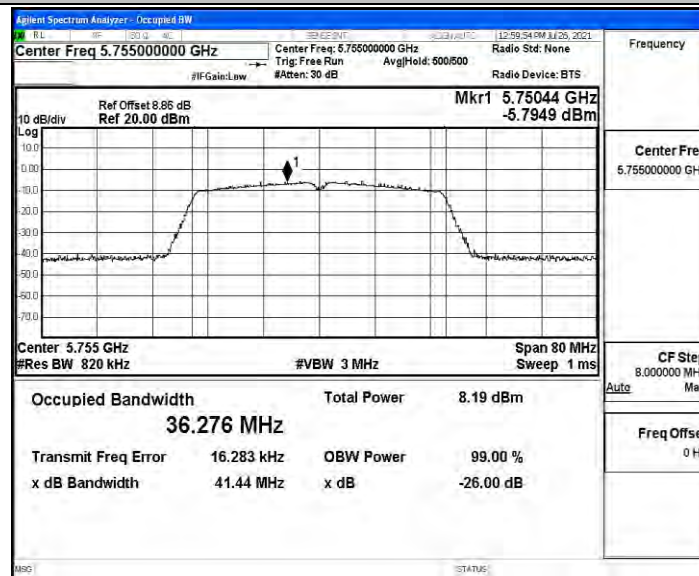




11AC20SISO_Ant1_5825

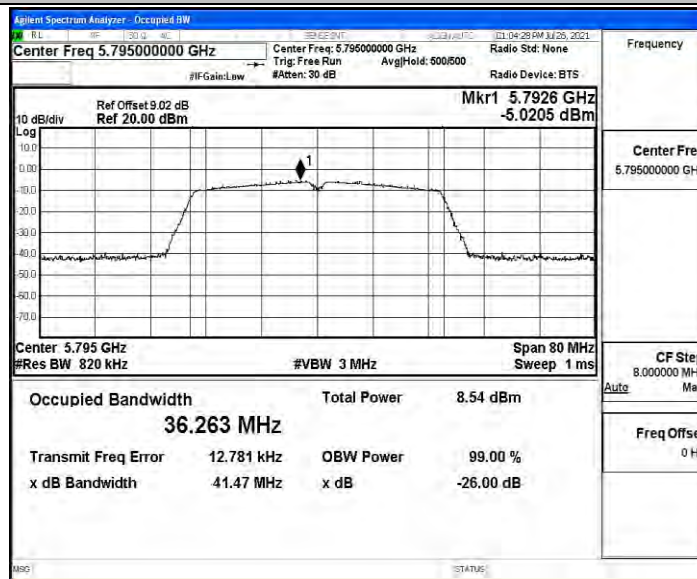


11AC40SISO_Ant1_5755

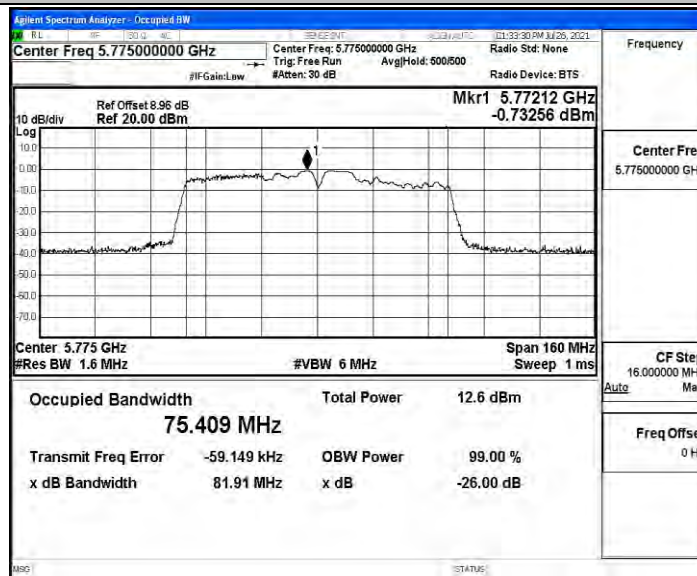




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





Appendix E.4.3: Min emission bandwidth

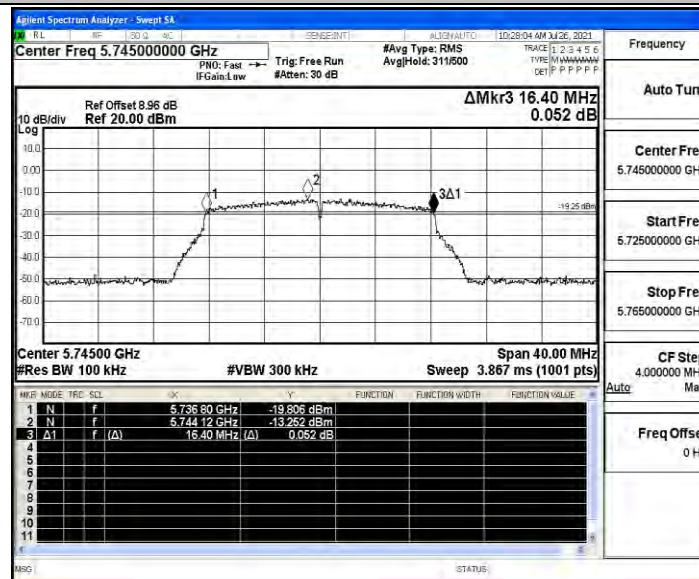
Test Result

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
		5785	16.400	5776.800	5793.200	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.680	5736.160	5753.840	0.5	PASS
		5785	17.640	5776.200	5793.840	0.5	PASS
		5825	17.640	5816.200	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.080	5776.760	5812.840	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.200	5753.840	0.5	PASS
		5785	17.680	5776.160	5793.840	0.5	PASS
		5825	17.680	5816.160	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	36.240	5736.760	5773.000	0.5	PASS
		5795	36.160	5776.760	5812.920	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5736.600	5811.640	0.5	PASS

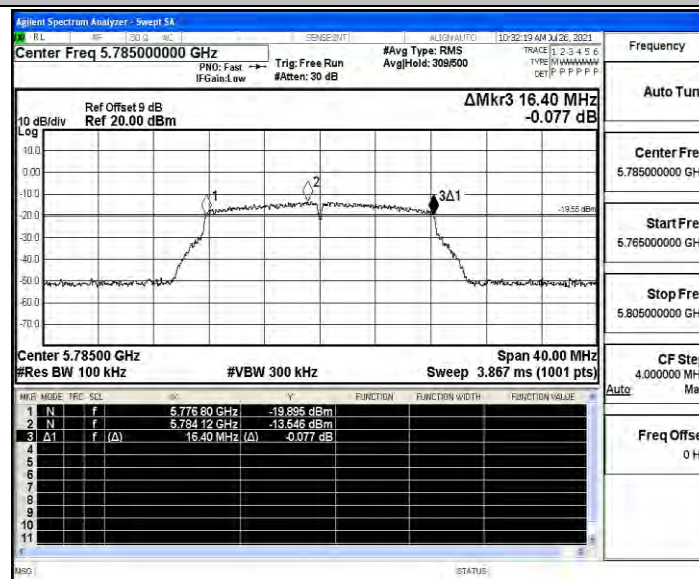


Test Graphs

11A_Ant1_5745

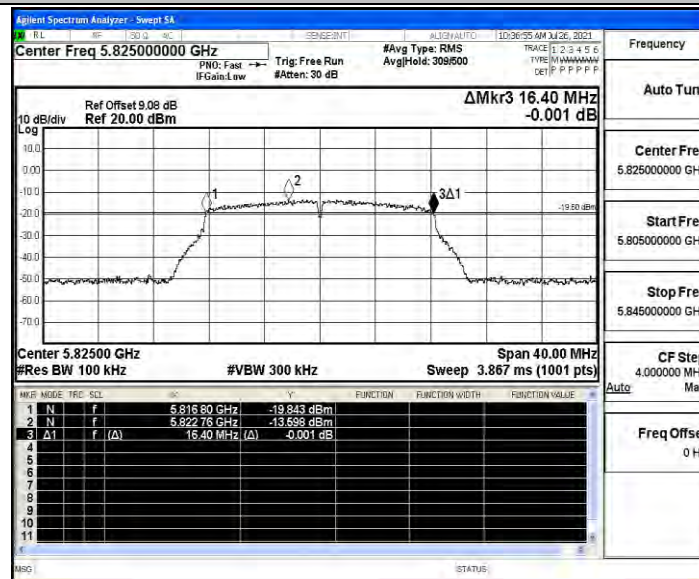


11A_Ant1_5785

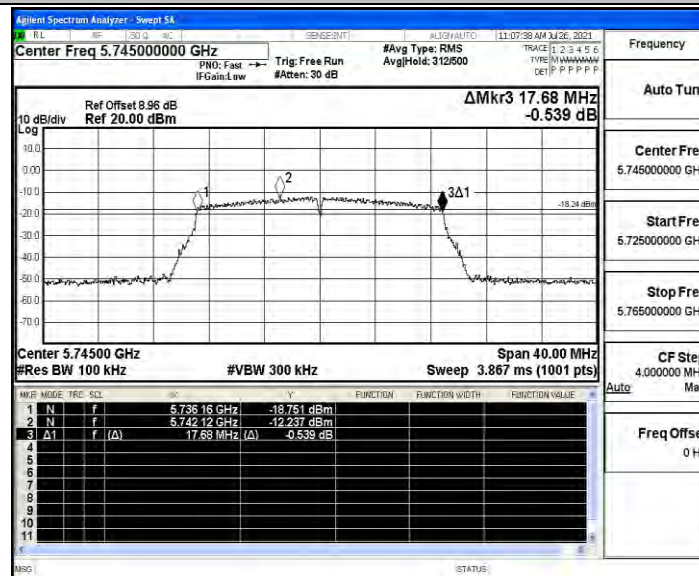




11A_Ant1_5825

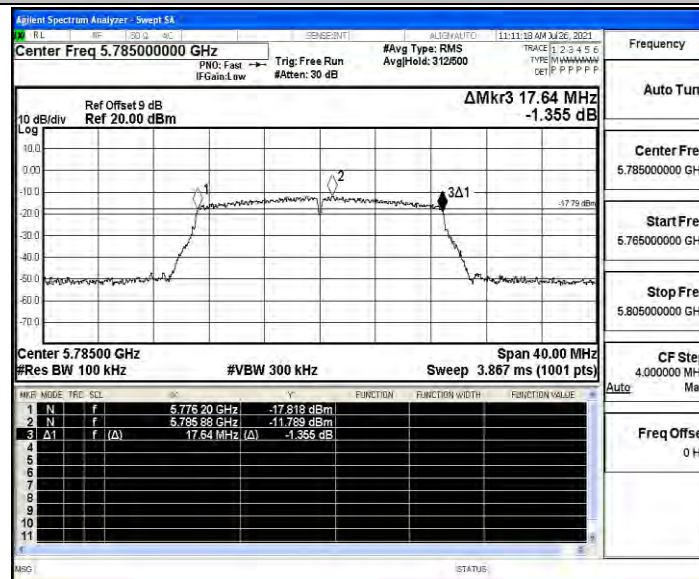


11N20SISO_Ant1_5745

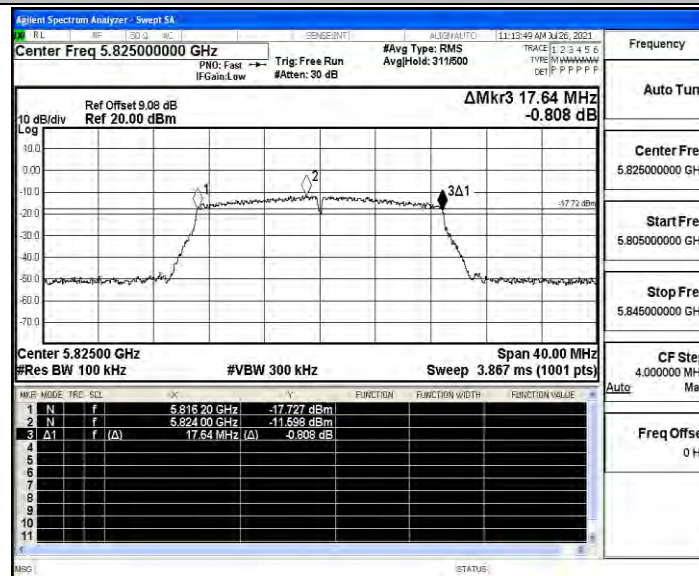




11N20SISO_Ant1_5785

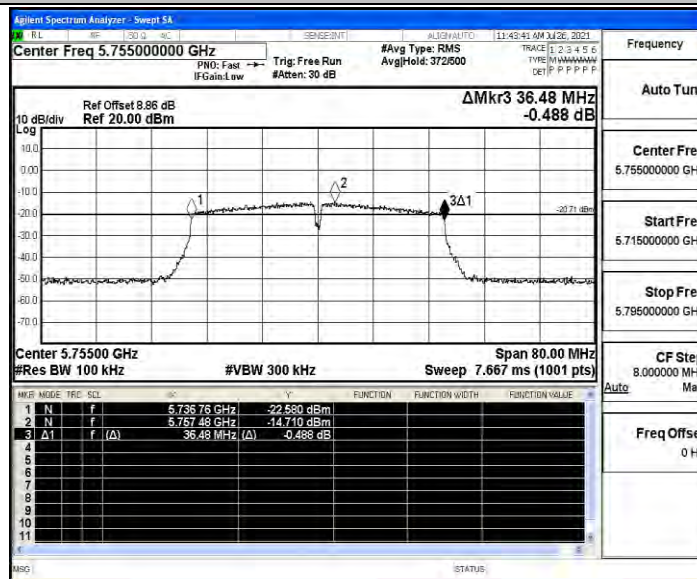


11N20SISO_Ant1_5825

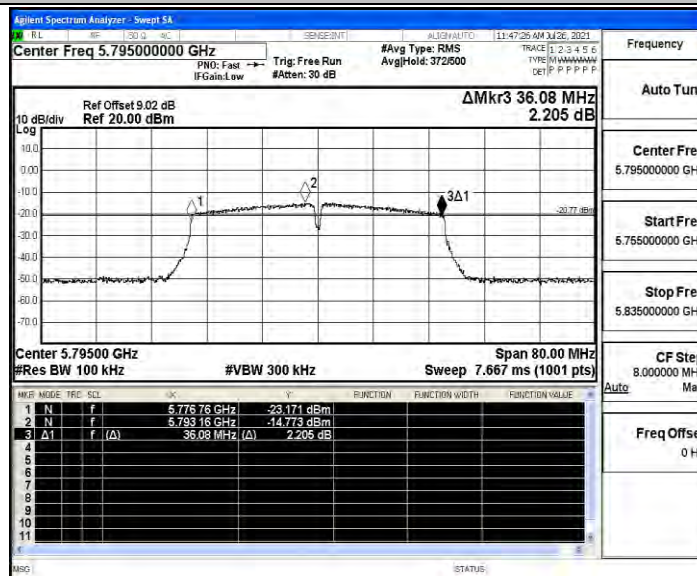




11N40SISO_Ant1_5755

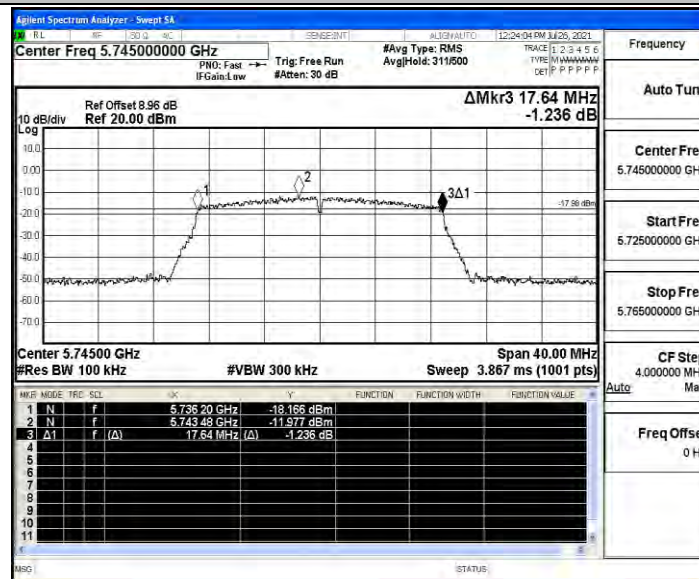


11N40SISO_Ant1_5795

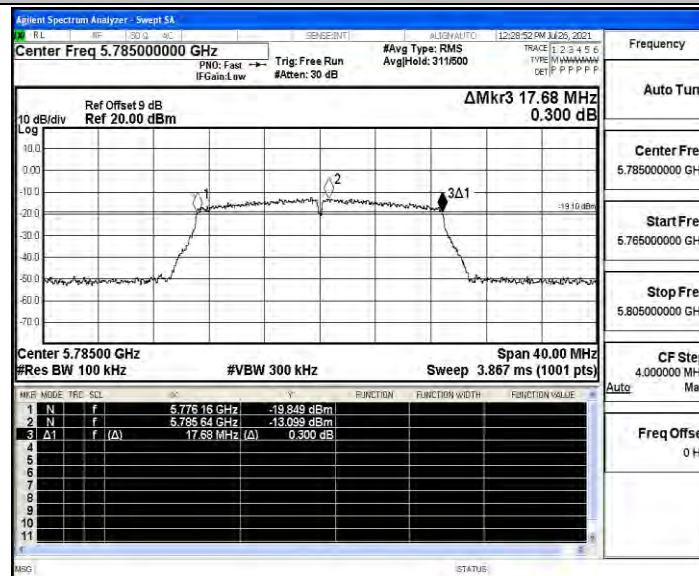




11AC20SISO_Ant1_5745

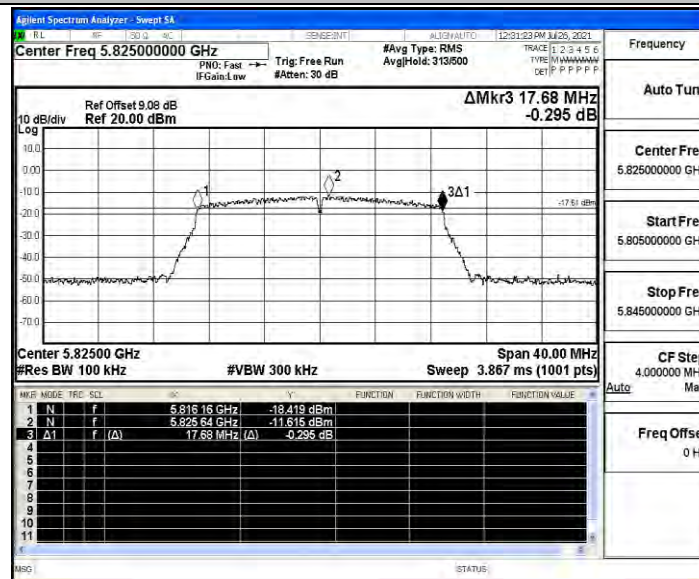


11AC20SISO_Ant1_5785

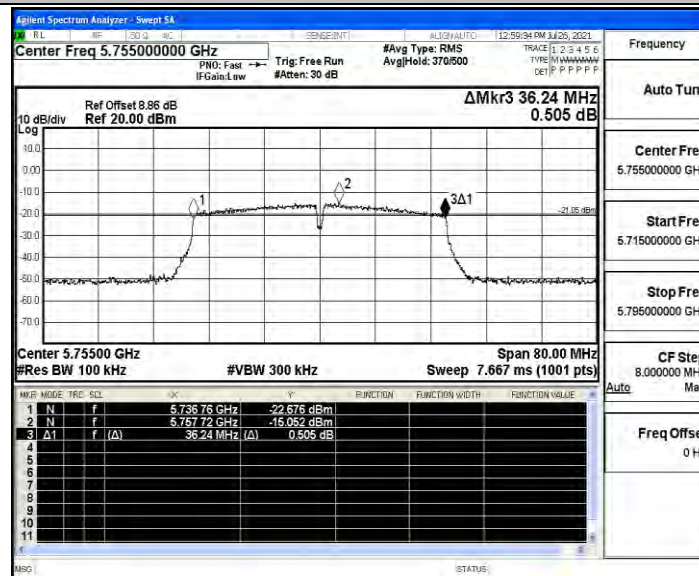




11AC20SISO_Ant1_5825

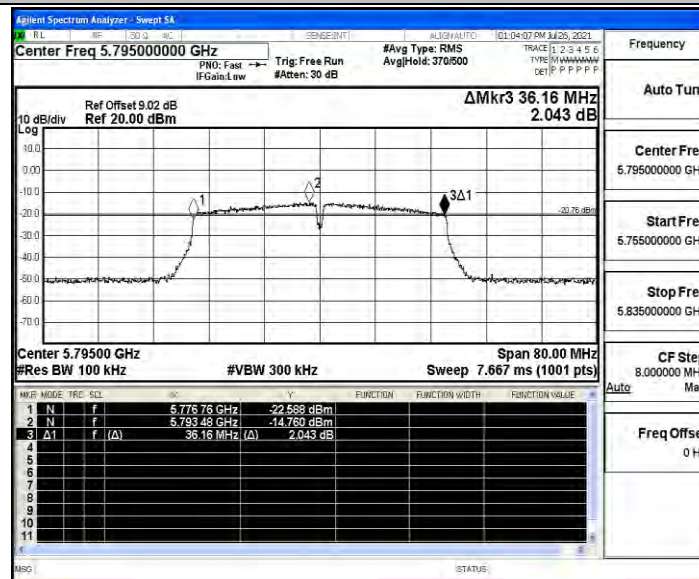


11AC40SISO_Ant1_5755

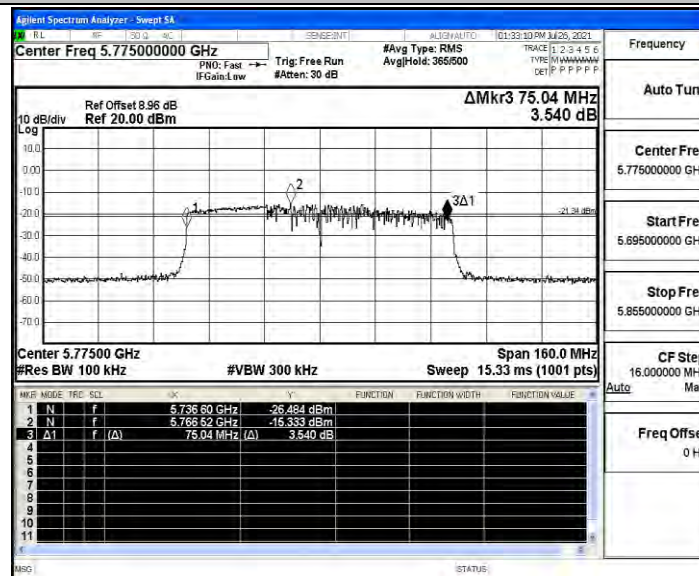




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





Appendix E.5: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-41.782	≤-27.00	---	---	PASS
				Peak	5700.000	-40.84	≤10.00	---	---	PASS
				Peak	5720.000	-42.7	≤15.60	---	---	PASS
				Peak	5725.000	-43.19	≤27.00	- --	- --	PASS
		High	5825	Peak	5850.000	-41.748	≤15.60	---	---	PASS
				Peak	5855.000	-42.23	≤27.00	---	---	PASS
				Peak	5875.000	-40.74	≤15.60	---	---	PASS
				Peak	5925.000	-41.63	≤10.00	- --	- --	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-42.665	≤-27.00	---	---	PASS
				Peak	5700.000	-41.89	≤10.00	---	---	PASS
				Peak	5720.000	-41.66	≤15.60	---	---	PASS
				Peak	5725.000	-41.76	≤27.00	- --	- --	PASS
		High	5825	Peak	5850.000	-41.194	≤15.60	---	---	PASS
				Peak	5855.000	-42.52	≤27.00	---	---	PASS
				Peak	5875.000	-42.23	≤15.60	---	---	PASS
				Peak	5925.000	-42.81	≤10.00	- --	- --	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-43.626	≤-27.00	---	---	PASS
				Peak	5700.000	-45.31	≤10.00	---	---	PASS
				Peak	5720.000	-43.55	≤15.60	---	---	PASS
				Peak	5725.000	-43.82	≤27.00	- --	- --	PASS
		High	5795	Peak	5850.000	-42.988	≤15.60	---	---	PASS
				Peak	5855.000	-43.52	≤27.00	---	---	PASS
				Peak	5875.000	-41.27	≤15.60	---	---	PASS
				Peak	5925.000	-42.81	≤10.00	- --	- --	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-44.54	≤-27.00	---	---	PASS
				Peak	5700.000	-41.24	≤10.00	---	---	PASS
				Peak	5720.000	-40.47	≤15.60	---	---	PASS
				Peak	5725.000	-42.93	≤27.00	- --	- --	PASS
		High	5825	Peak	5850.000	-42.114	≤15.60	---	---	PASS
				Peak	5855.000	-41.37	≤27.00	---	---	PASS
				Peak	5875.000	-41.55	≤15.60	---	---	PASS
				Peak	5925.000	-45.05	≤10.00	- --	- --	PASS



11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-44.176	≤ 27.00	---	---	PASS
				Peak	5700.000	-40.71	≤ 10.00	---	---	PASS
				Peak	5720.000	-42.1	≤ 15.60	---	---	PASS
				Peak	5725.000	-42.1	≤ 27.00	- --	- --	PASS
		High	5795	Peak	5850.000	-41.583	≤ 15.60	---	---	PASS
				Peak	5855.000	-43.59	≤ 27.00	---	---	PASS
				Peak	5875.000	-43.9	≤ 15.60	---	---	PASS
				Peak	5925.000	-39.14	≤ 10.00	- --	- --	PASS
11AC8 0SISO	Ant1	Low	5775	Peak	5650.000	-42.997	≤ 27.00	---	---	PASS
				Peak	5700.000	-41.02	≤ 10.00	---	---	PASS
				Peak	5720.000	-40.54	≤ 15.60	---	---	PASS
				Peak	5725.000	-42.76	≤ 27.00	- --	- --	PASS
		High	5775	Peak	5850.000	-42.217	≤ 15.60	---	---	PASS
				Peak	5855.000	-43.33	≤ 27.00	---	---	PASS
				Peak	5875.000	-41.69	≤ 15.60	---	---	PASS
				Peak	5925.000	-41.24	≤ 10.00	---	- --	PASS

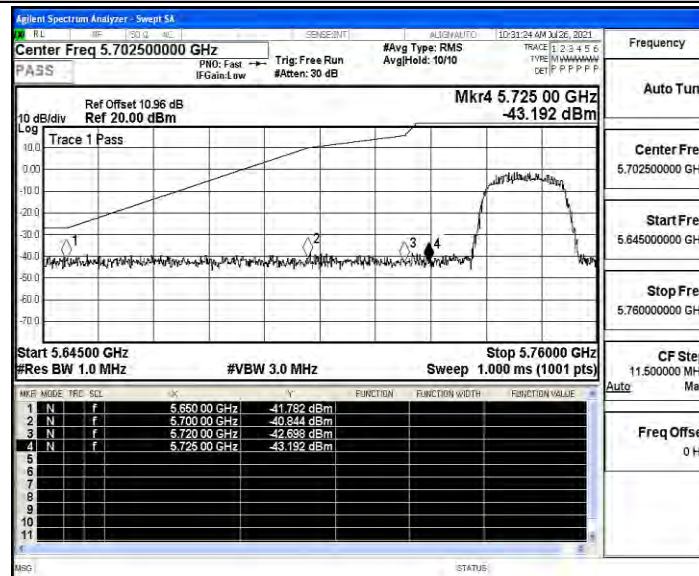
Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

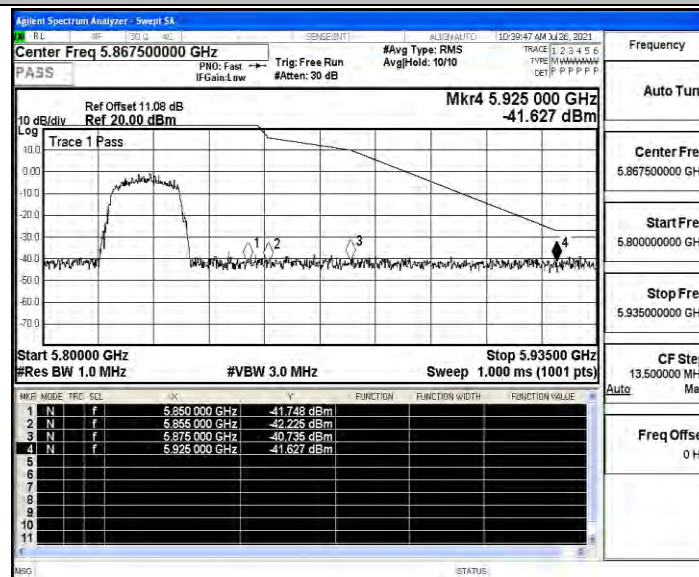


Test Graphs

11A_Ant1_Low_5745_Peak

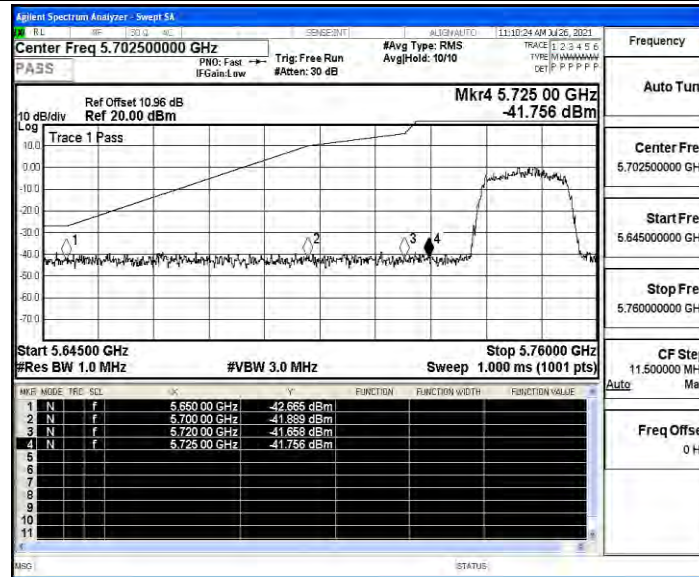


11A_Ant1_High_5825_Peak

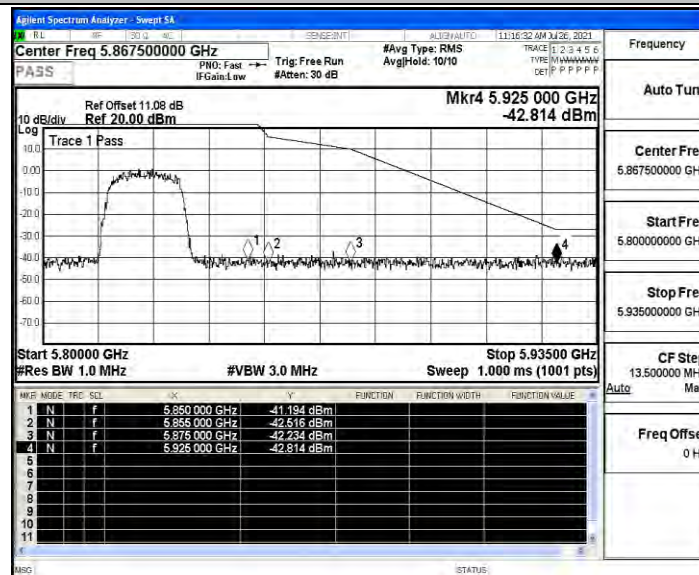




11N20SISO_Ant1_Low_5745_Peak

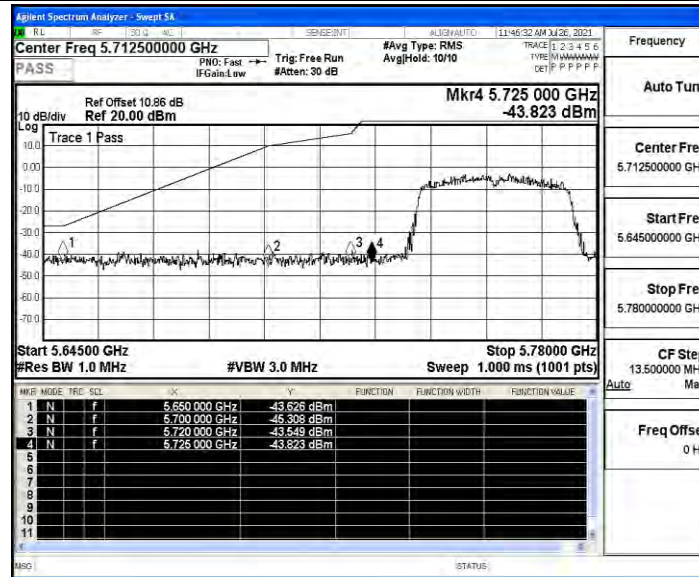


11N20SISO_Ant1_High_5825_Peak

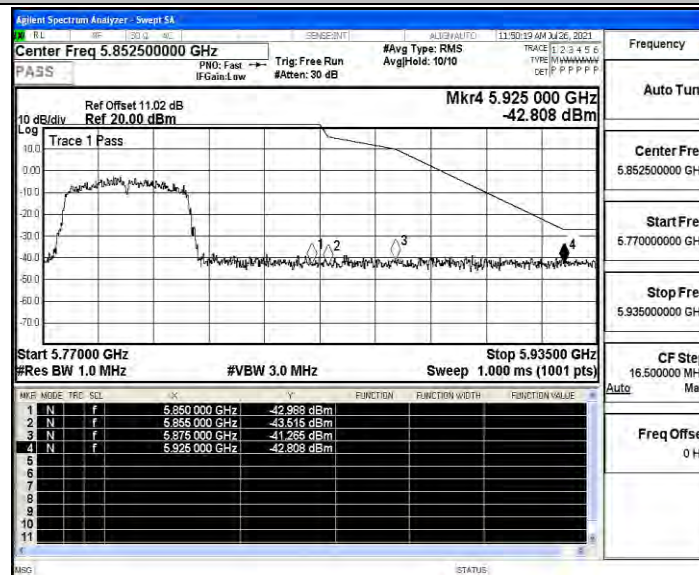




11N40SISO_Ant1_Low_5755_Peak

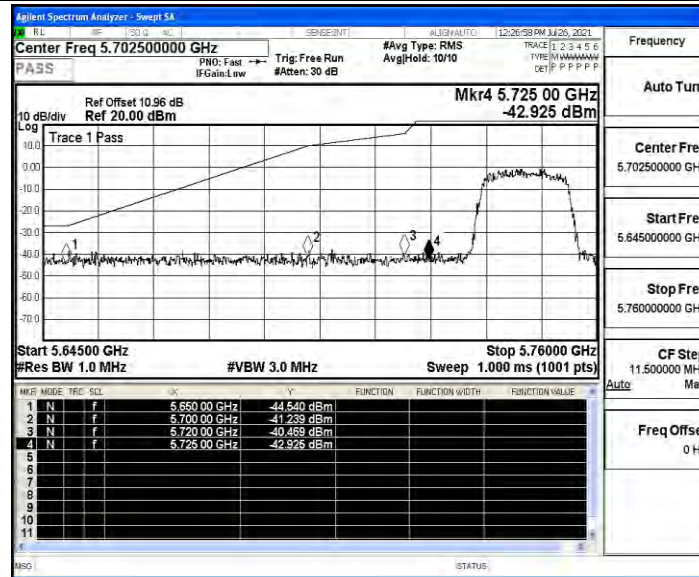


11N40SISO_Ant1_High_5795_Peak

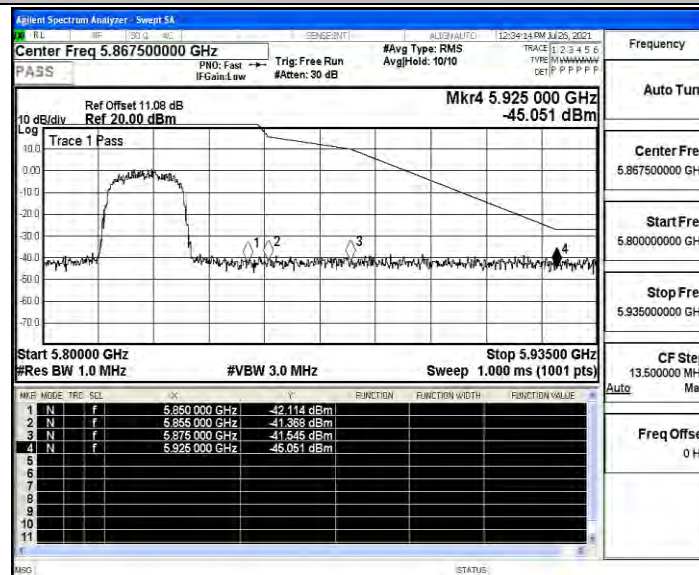




11AC20SISO_Ant1_Low_5745_Peak

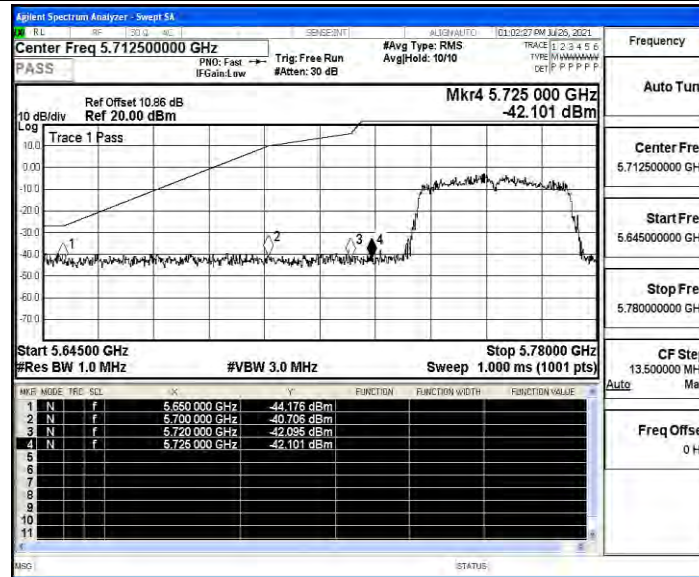


11AC20SISO_Ant1_High_5825_Peak

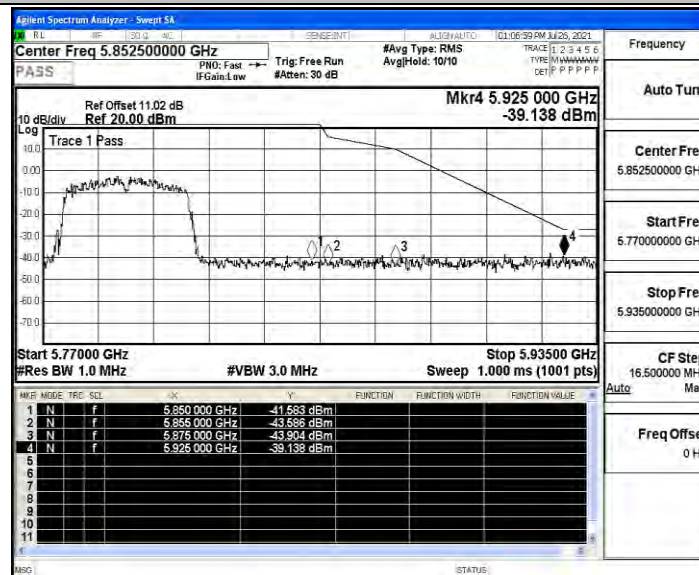




11AC40SISO_Ant1_Low_5755_Peak

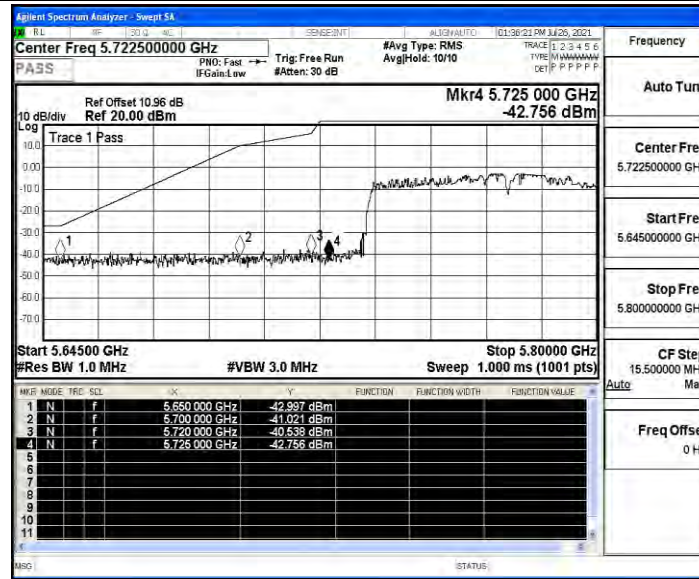


11AC40SISO_Ant1_High_5795_Peak

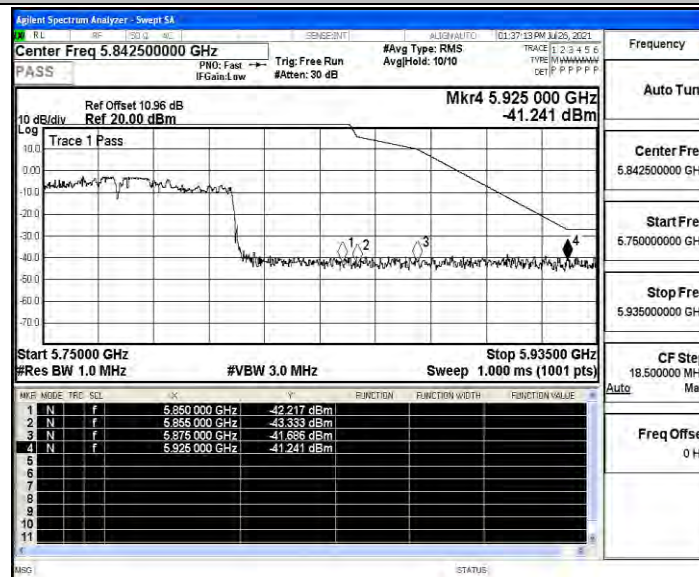




11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak





Appendix E.6: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	5745	5650~5700	-48.76	≤-1.77	PASS
11G	Ant1	Low	5745	5650~5700	-46.55	≤-4.06	PASS
				5700~5720	-48.81	≤10.89	PASS
11B	Ant1	Low	5745	5700~5720	-49.47	≤10.47	PASS
				5720~5725	-50.13	≤22.37	PASS
11G	Ant1	Low	5745	5720~5725	-48.48	≤19.75	PASS
				5760~5650	-49.4	≤-27	PASS
11B	Ant1	Low	5745	5760~5650	-49.67	≤-27	PASS
		High	5825	5850~5855	-48.12	≤17.03	PASS
11G	Ant1	High	5825	5850~5855	-49.14	≤24.10	PASS
11B	Ant1	High	5825	5855~5875	-48.56	≤11.80	PASS
11G	Ant1	High	5825	5855~5875	-49.33	≤11.91	PASS
11B	Ant1	High	5825	5875~5925	-48.54	≤-3.08	PASS
11G	Ant1	High	5825	5875~5925	-48.79	≤0.72	PASS
				5925~5935	-48.89	≤-27	PASS
11B	Ant1	High	5825	5925~5935	-48.97	≤-27	PASS
11A	Ant1	Low	5745	5650~5700	-48.52	≤9.98	PASS
				5700~5720	-48.52	≤10.93	PASS
				5720~5725	-48.36	≤23.42	PASS
				5760~5650	-50.37	≤-27	PASS
		High	5825	5850~5855	-49.27	≤17.64	PASS
				5855~5875	-49.42	≤11.87	PASS
				5875~5925	-48.7	≤-21.16	PASS
				5925~5935	-49.71	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-48.52	≤1.81	PASS
				5700~5720	-48.98	≤10.15	PASS
				5720~5725	-48.56	≤26.04	PASS
				5760~5650	-49.92	≤-27	PASS
		High	5825	5850~5855	-48.99	≤26.57	PASS
				5855~5875	-48.52	≤10.21	PASS
				5875~5925	-48.83	≤-10.07	PASS
				5925~5935	-50.01	≤-27	PASS

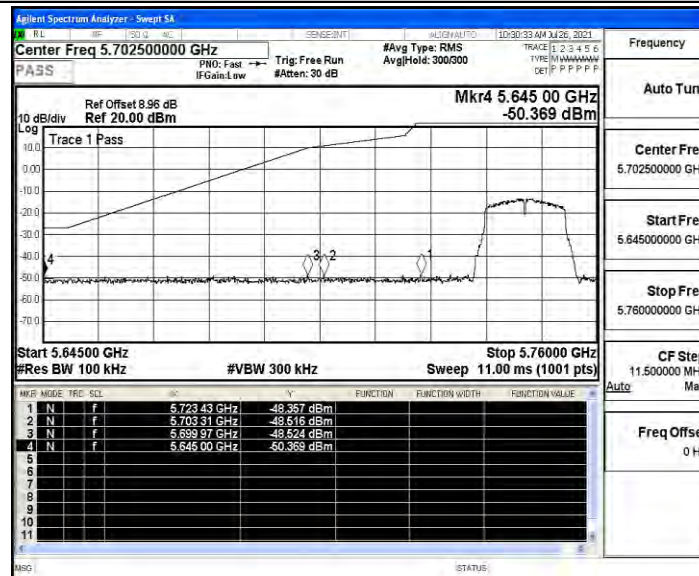


11N40SI SO	Ant1	Low	5755	5650~5700	-49.19	≤ -10.62	PASS
				5700~5720	-48.96	≤ 13.05	PASS
				5720~5725	-50.23	≤ 20.35	PASS
				5780~5650	-49.41	≤ -27	PASS
		High	5795	5850~5855	-49.48	≤ 26.57	PASS
				5855~5875	-48.82	≤ 14.20	PASS
				5875~5925	-49.39	≤ -9.83	PASS
				5925~5935	-50.12	≤ -27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-48.92	≤ 3.68	PASS
				5700~5720	-48.71	≤ 12.92	PASS
				5720~5725	-49.26	≤ 20.80	PASS
				5760~5650	-50.23	≤ -27	PASS
		High	5825	5850~5855	-49.68	≤ 17.64	PASS
				5855~5875	-48.15	≤ 10.40	PASS
				5875~5925	-49.11	≤ -22.86	PASS
				5925~5935	-49.66	≤ -27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-48.89	≤ 5.56	PASS
				5700~5720	-47.76	≤ 14.29	PASS
				5720~5725	-49.33	≤ 21.28	PASS
				5780~5650	-49.28	≤ -27	PASS
		High	5795	5850~5855	-49.68	≤ 17.16	PASS
				5855~5875	-48.95	≤ 10.09	PASS
				5875~5925	-49.12	≤ -11.90	PASS
				5925~5935	-48.56	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-48.96	≤ -8.10	PASS
				5700~5720	-47.2	≤ 14.26	PASS
				5720~5725	-48.95	≤ 26.95	PASS
				5800~5650	-50.51	≤ -27	PASS
		High	5775	5850~5855	-50.48	≤ 20.86	PASS
				5855~5875	-48.17	≤ 13.54	PASS
				5875~5925	-48.93	≤ -26.27	PASS
				5925~5935	-49.95	≤ -27	PASS

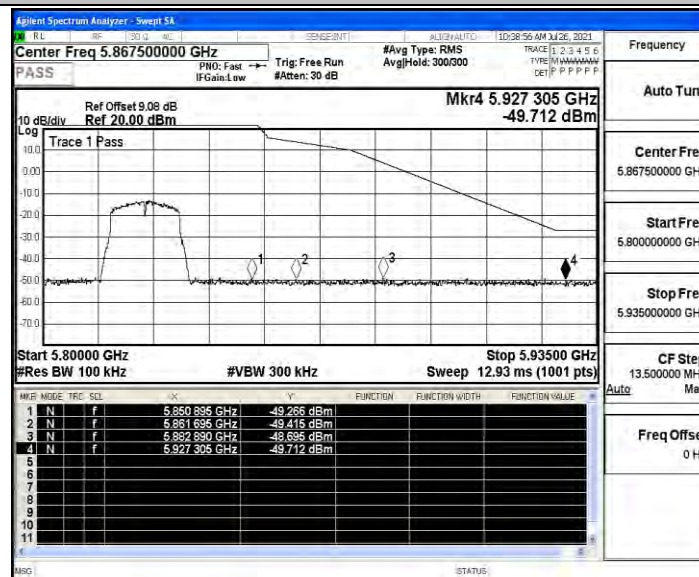


Test Graphs

11A_Ant1_Low_5745

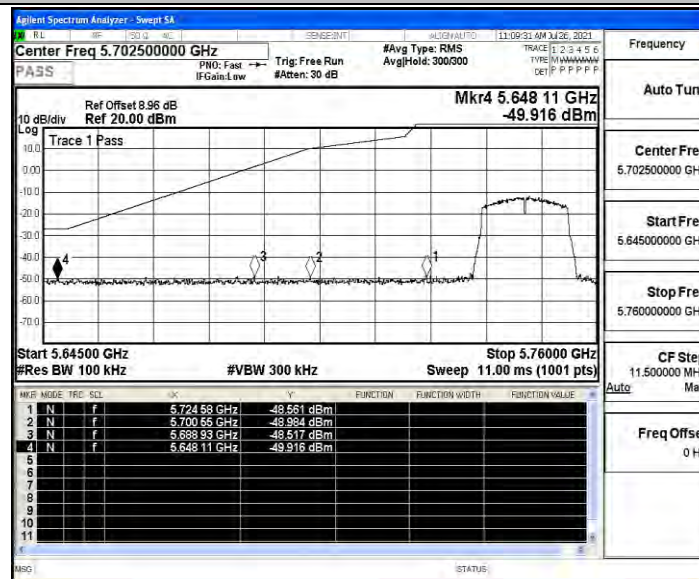


11A_Ant1_High_5825

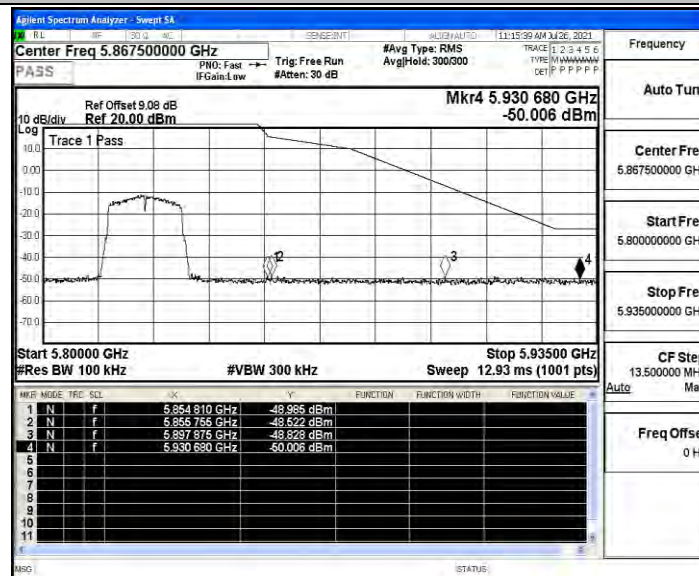




11N20SISO_Ant1_Low_5745

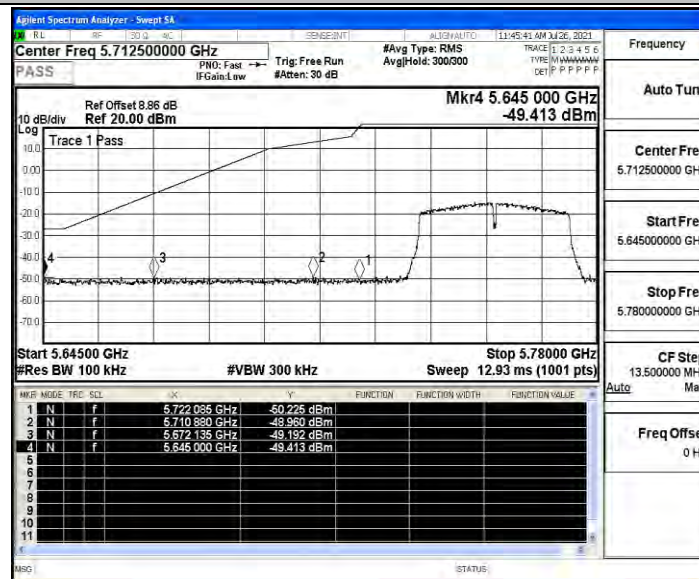


11N20SISO_Ant1_High_5825

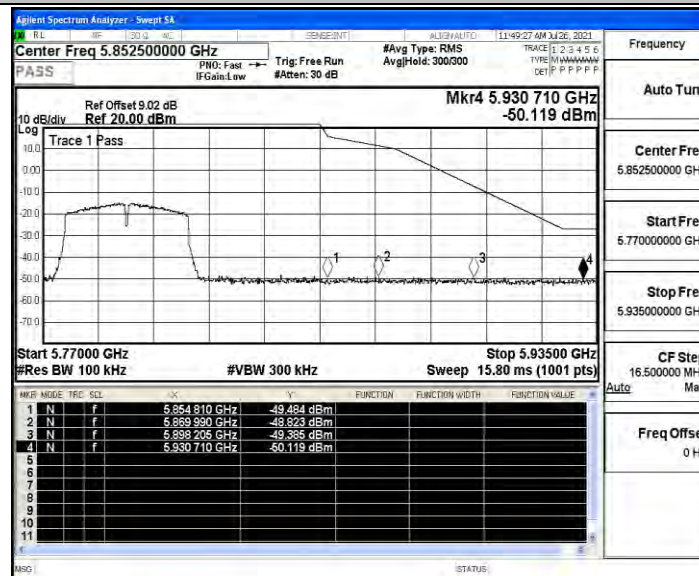




11N40SISO_Ant1_Low_5755

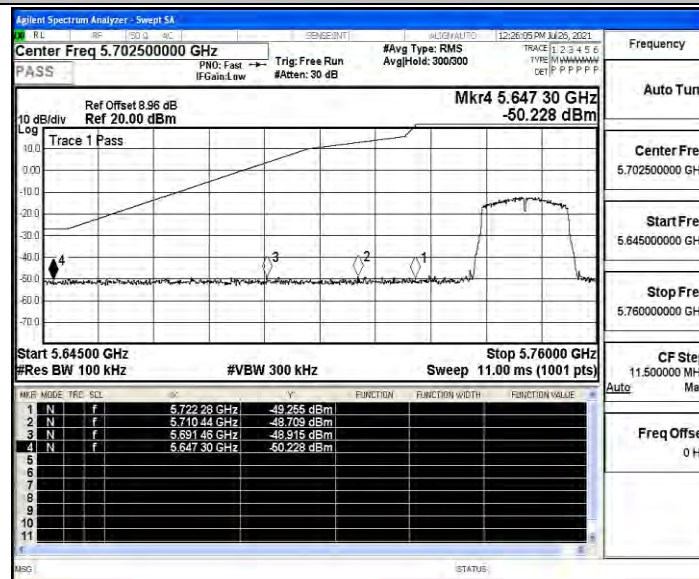


11N40SISO_Ant1_High_5795

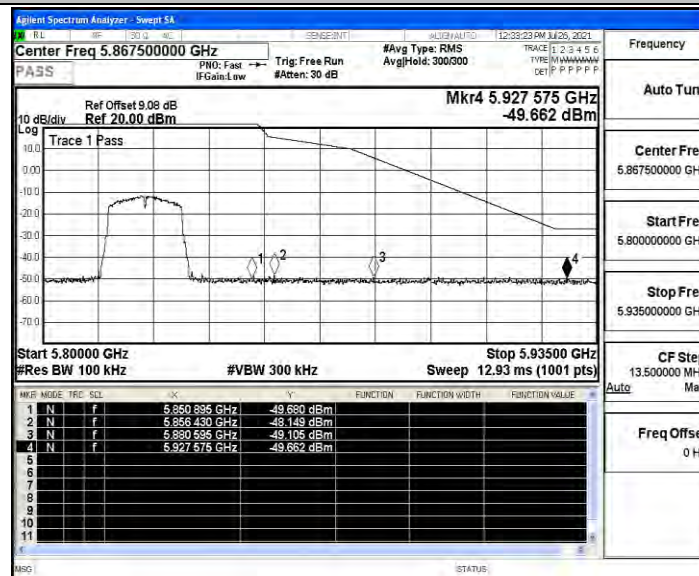




11AC20SISO_Ant1_Low_5745

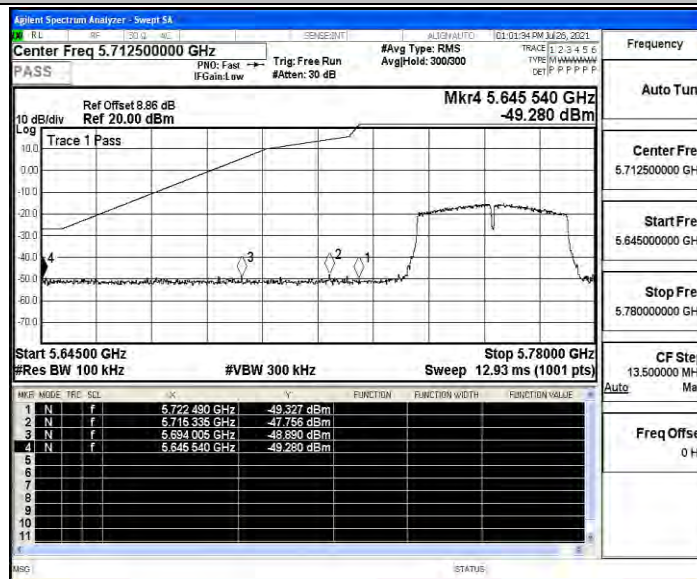


11AC20SISO_Ant1_High_5825

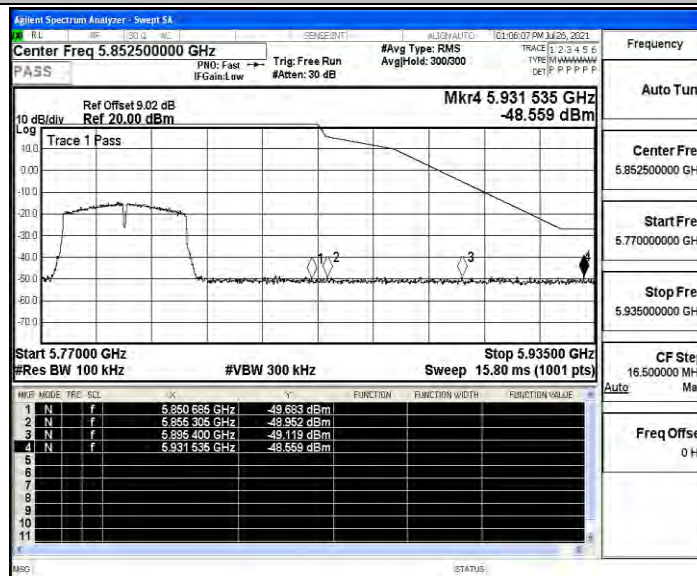




11AC40SISO_Ant1_Low_5755

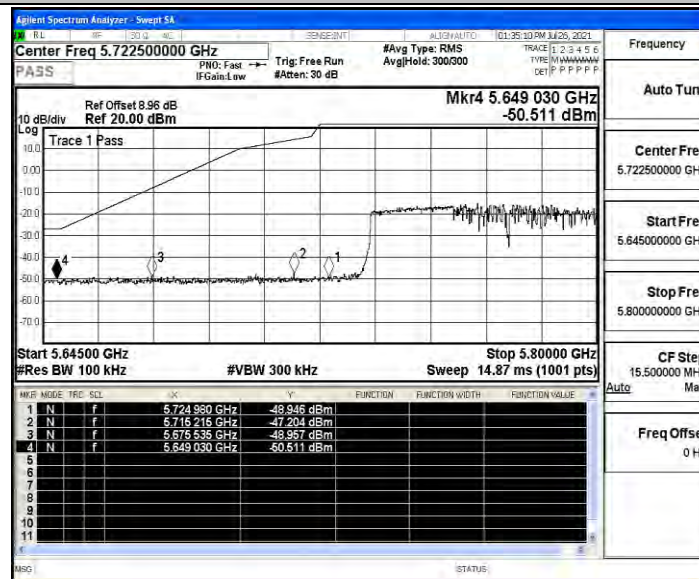


11AC40SISO_Ant1_High_5795





11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775

