



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: TABLET PC

Test Model: RubensTab_T11

Environmental Conditions

Temperature:	23.7℃
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan



E.1 Min emission bandwidth

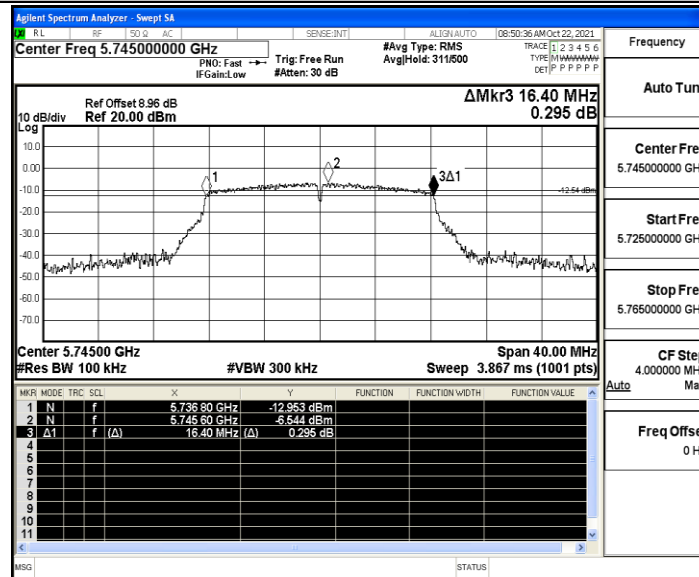
Test Result

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	17.640	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
11N40SISO	Ant1	5755	36.000	5737.000	5773.000	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.680	5736.160	5753.840	0.5	PASS
		5785	17.680	5776.160	5793.840	0.5	PASS
		5825	17.640	5816.200	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	35.680	5777.160	5812.840	0.5	PASS
11AC80SISO	Ant1	5775	76.480	5736.760	5813.240	0.5	PASS

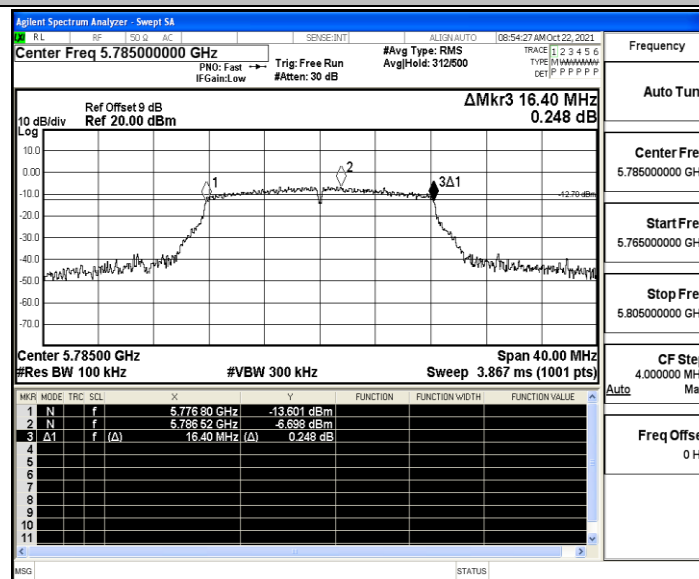


Test Graphs

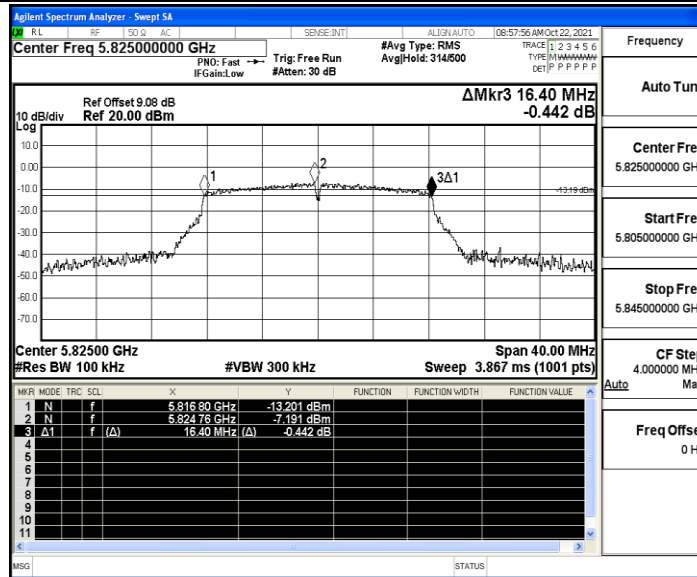
11A_Ant1_5745



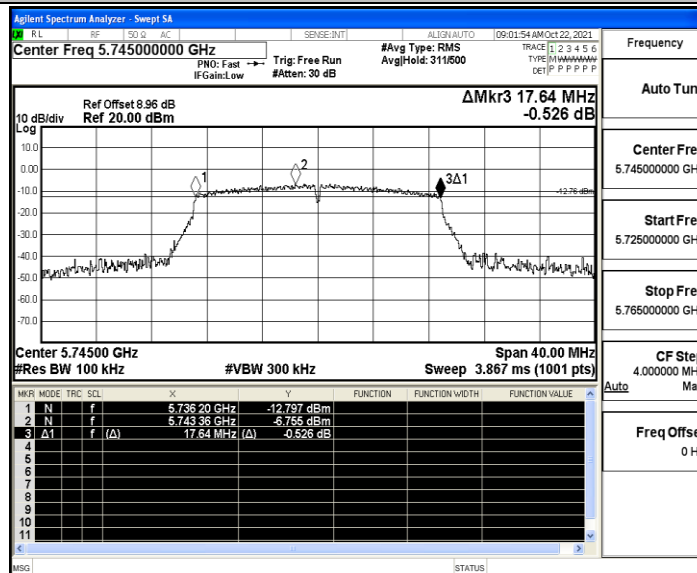
11A_Ant1_5785



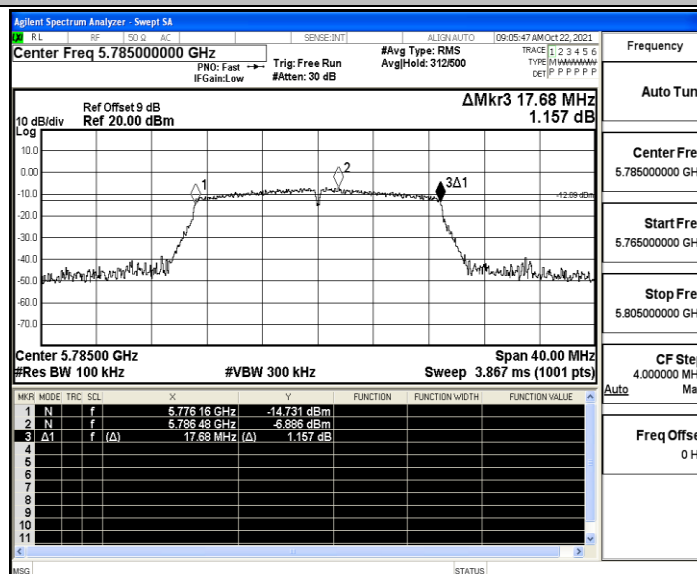
11A_Ant1_5825



11N20SISO_Ant1_5745

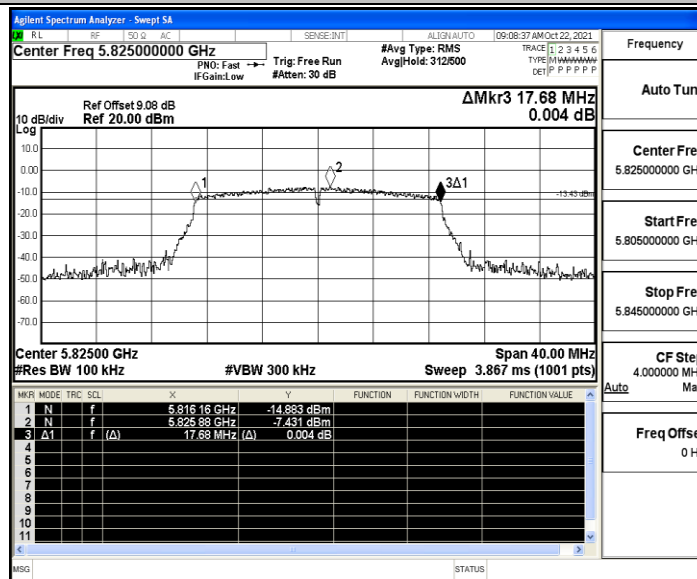


11N20SISO_Ant1_5785

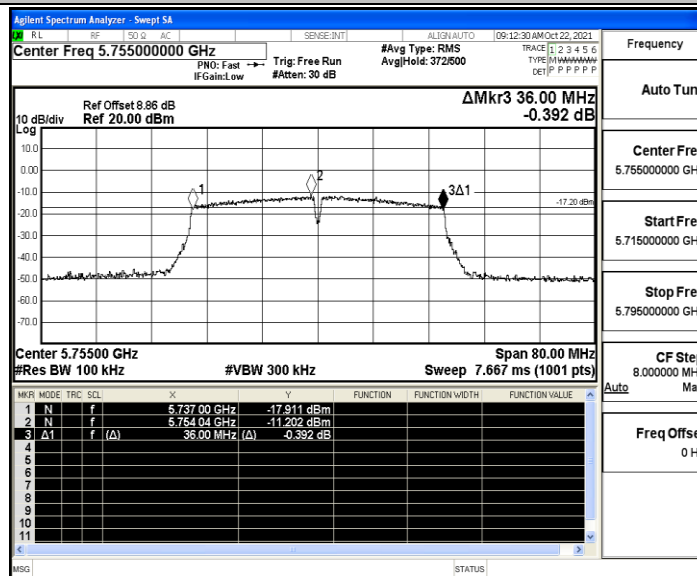




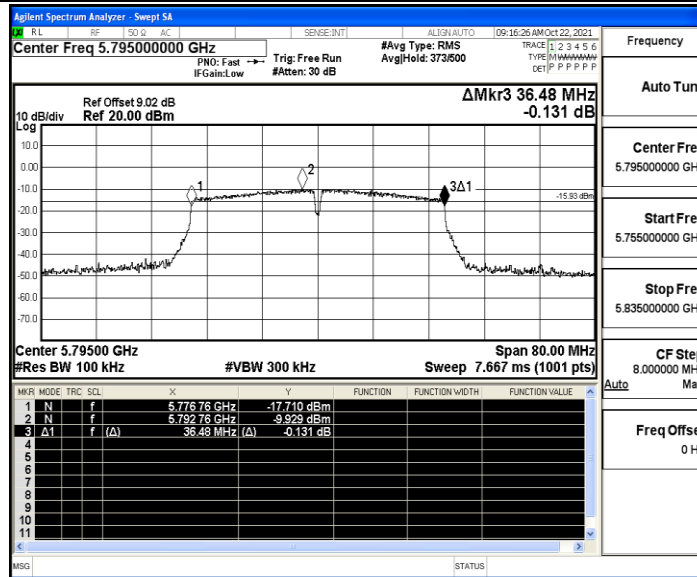
11N20SISO_Ant1_5825



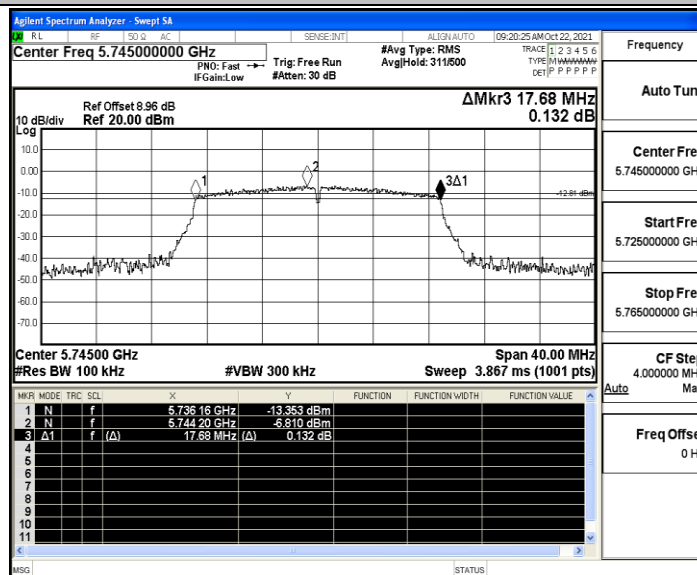
11N40SISO_Ant1_5755



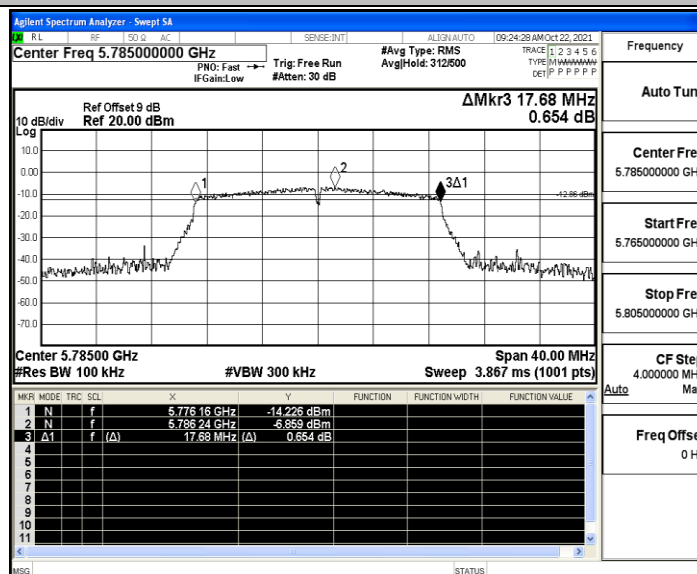
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

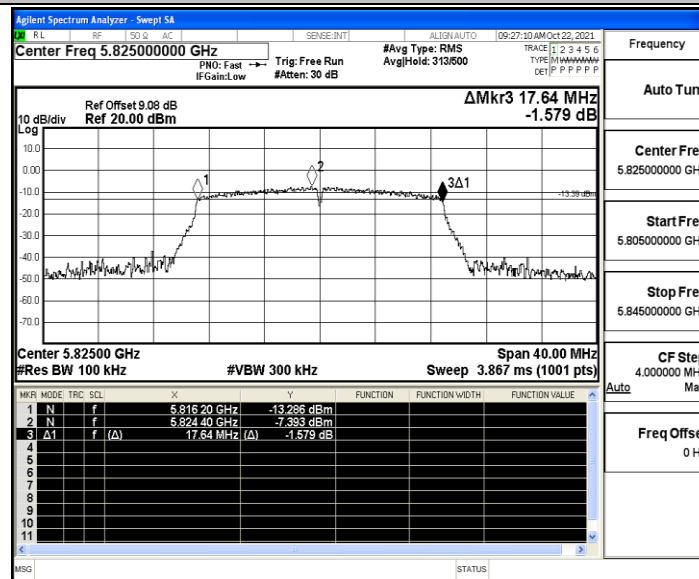


11AC20SISO_Ant1_5785

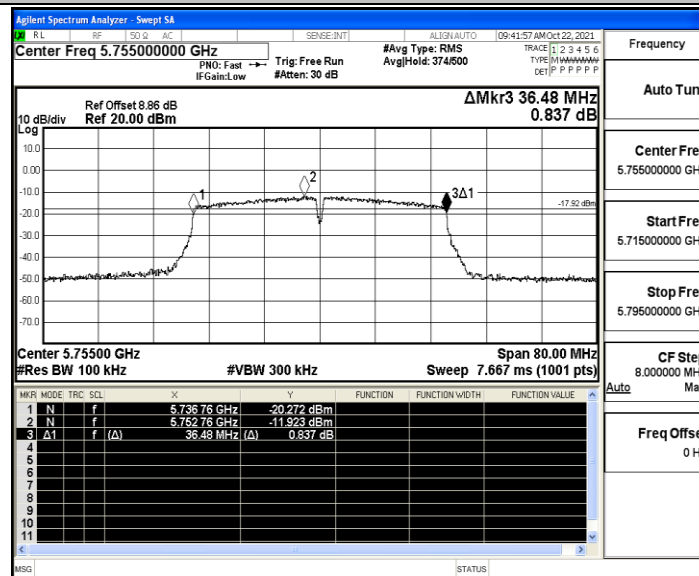




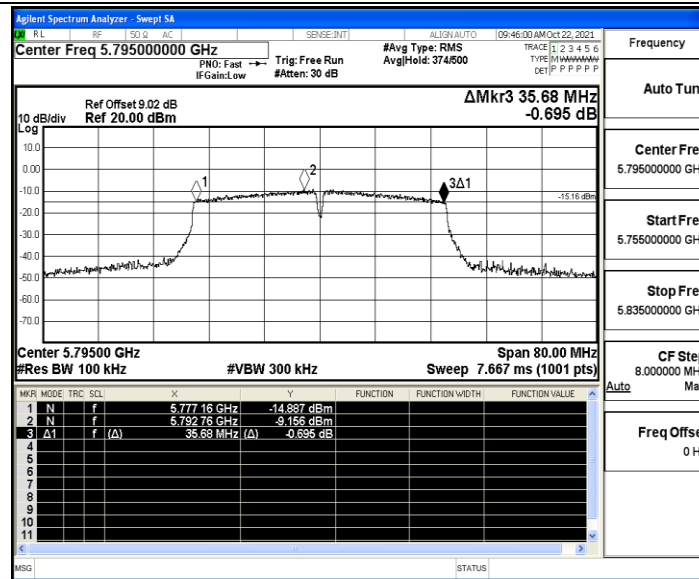
11AC20SISO_Ant1_5825



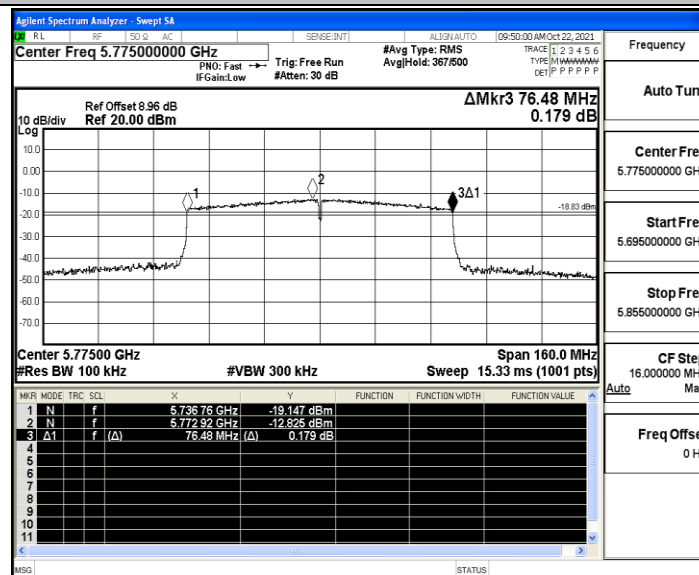
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





E.2 Maximum conducted output power

Test Result

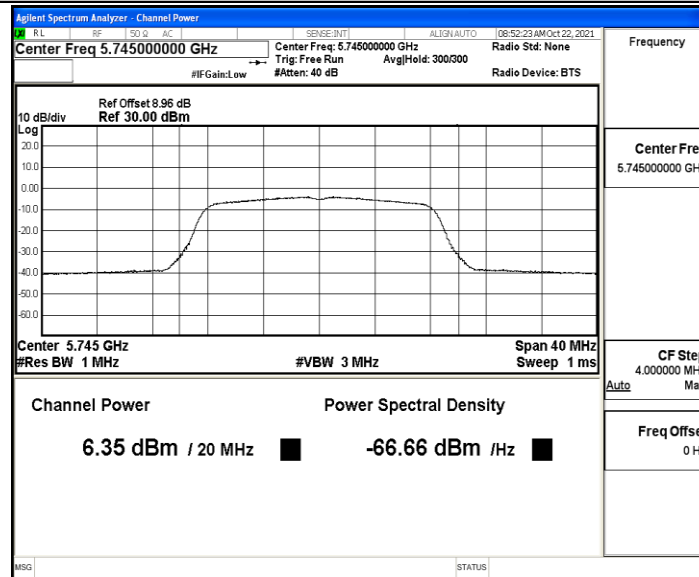
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	6.35	≤ 30	PASS
		5785	6.51	≤ 30	PASS
		5825	5.97	≤ 30	PASS
11N20SISO	Ant1	5745	6.49	≤ 30	PASS
		5785	6.14	≤ 30	PASS
		5825	5.80	≤ 30	PASS
11N40SISO	Ant1	5755	4.28	≤ 30	PASS
		5795	6.38	≤ 30	PASS
11AC20SISO	Ant1	5745	6.71	≤ 30	PASS
		5785	6.55	≤ 30	PASS
		5825	5.90	≤ 30	PASS
11AC40SISO	Ant1	5755	4.39	≤ 30	PASS
		5795	6.64	≤ 30	PASS
11AC80SISO	Ant1	5775	6.69	≤ 30	PASS

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

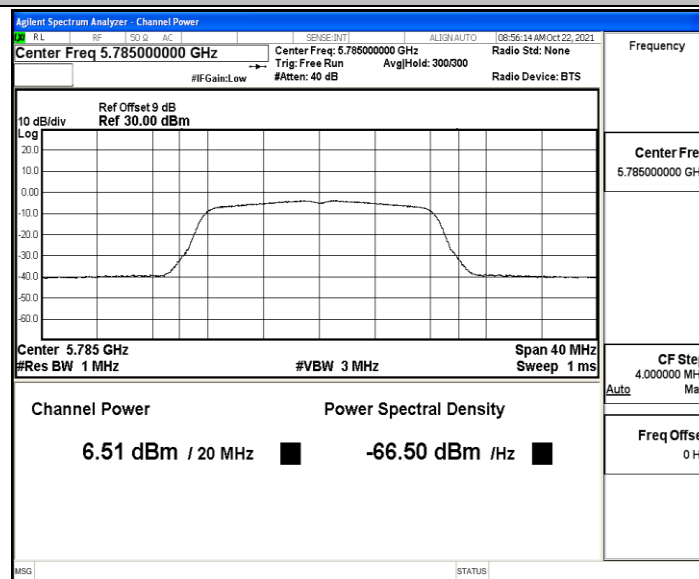


Test Graphs

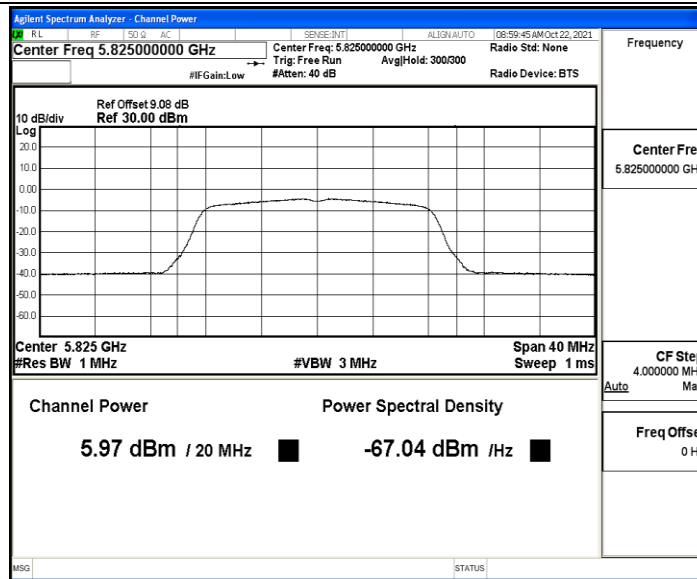
11A_Ant1_5745



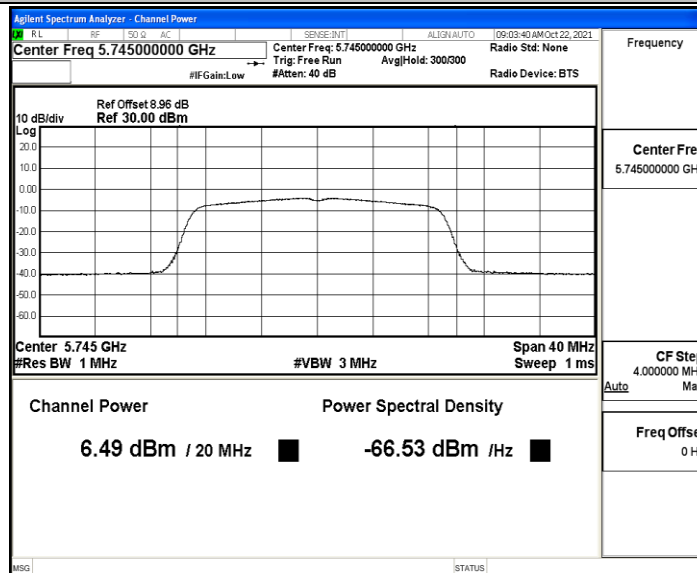
11A_Ant1_5785



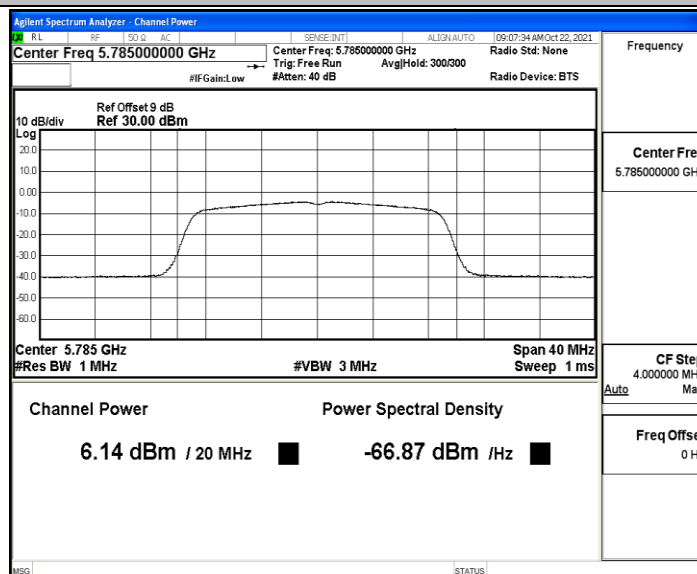
11A_Ant1_5825



11N20SISO_Ant1_5745

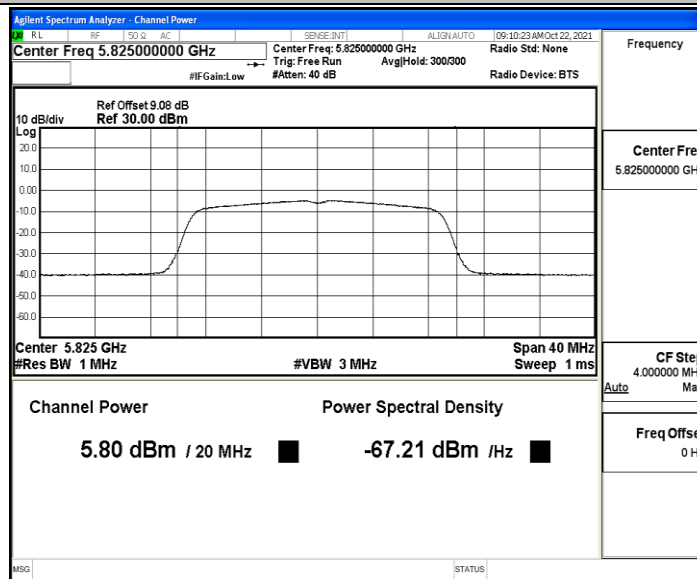


11N20SISO_Ant1_5785

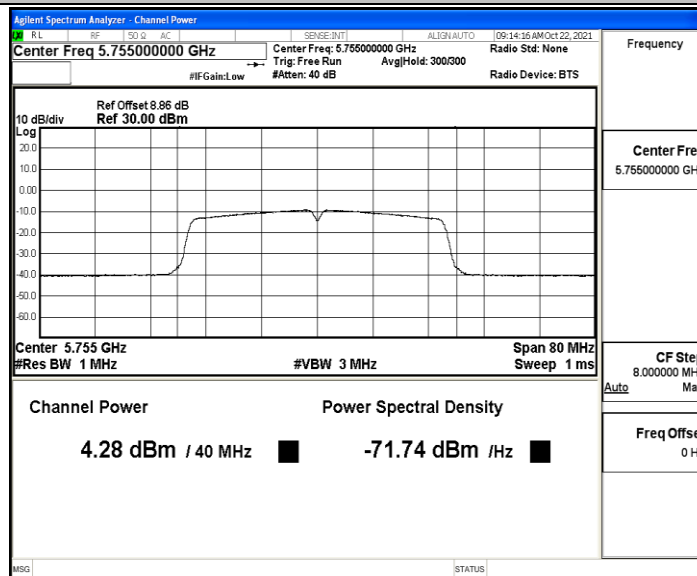




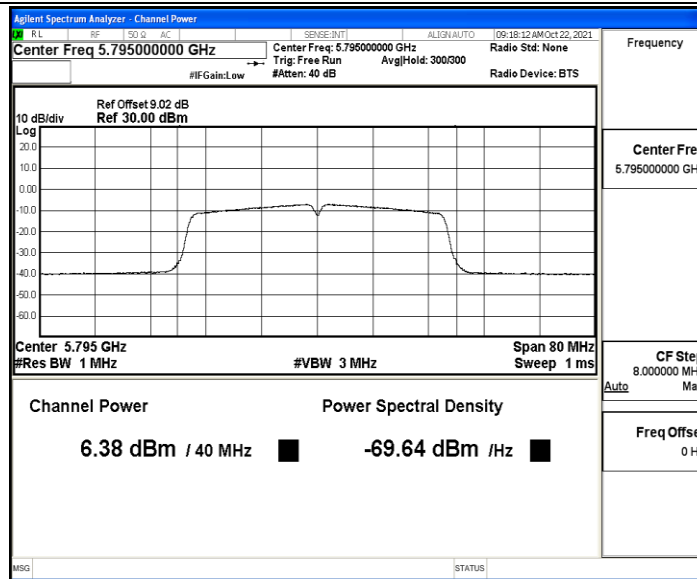
11N20SISO_Ant1_5825



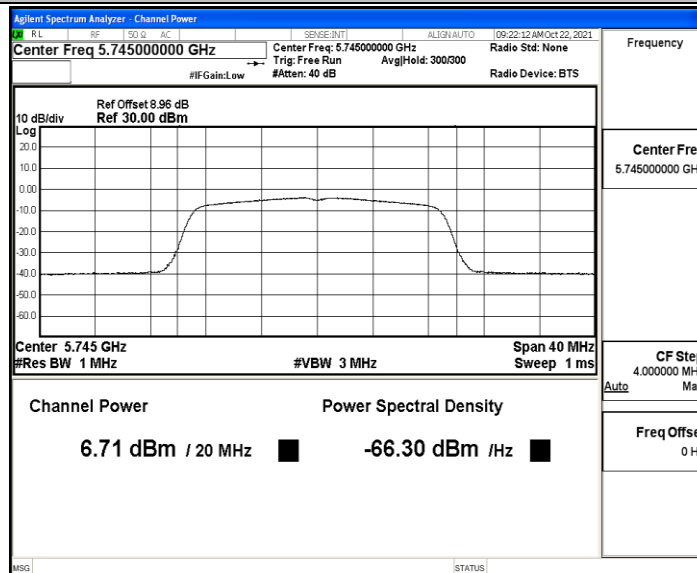
11N40SISO_Ant1_5755



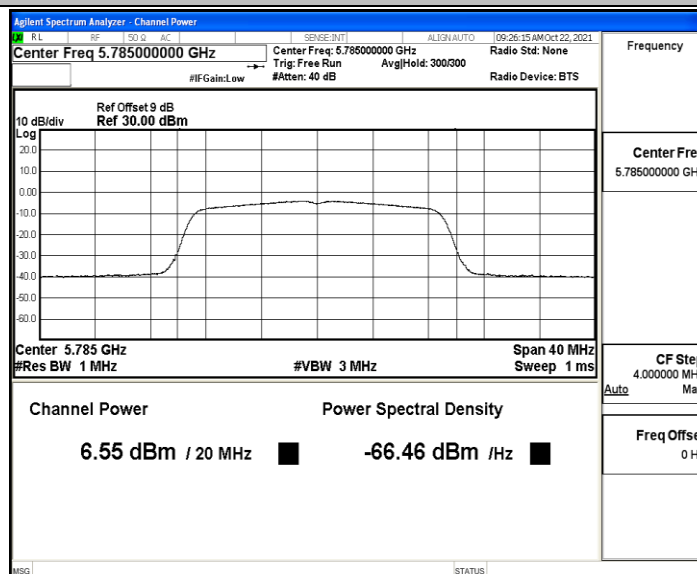
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

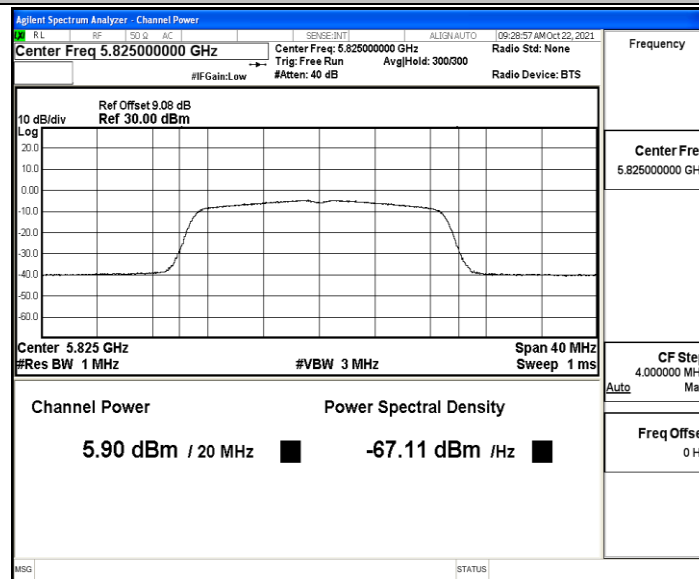


11AC20SISO_Ant1_5785

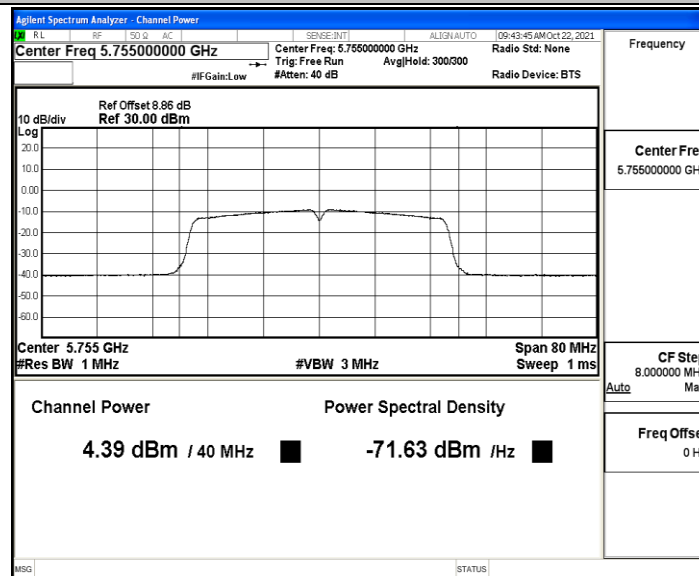




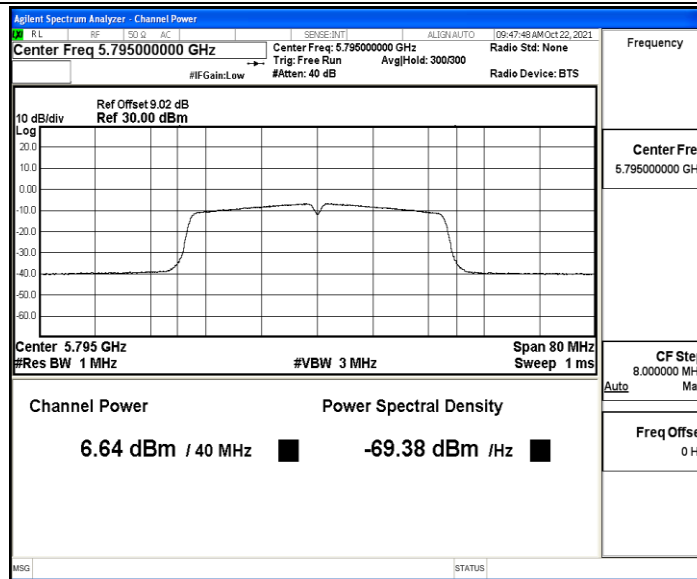
11AC20SISO_Ant1_5825



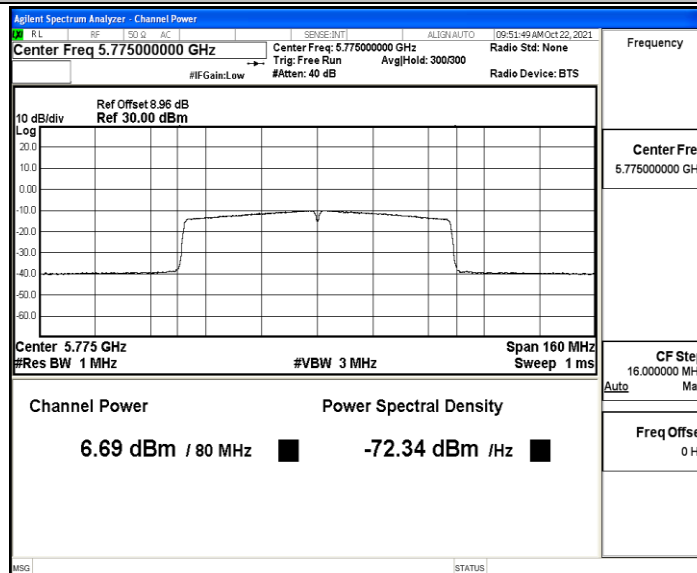
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-6.68	≤30	PASS
		5785	-6.42	≤30	PASS
		5825	-6.8	≤30	PASS
11N20SISO	Ant1	5745	-6.59	≤30	PASS
		5785	-7.03	≤30	PASS
		5825	-7.5	≤30	PASS
11N40SISO	Ant1	5755	-11.93	≤30	PASS
		5795	-9.98	≤30	PASS
11AC20SISO	Ant1	5745	-6.3	≤30	PASS
		5785	-6.74	≤30	PASS
		5825	-6.84	≤30	PASS
11AC40SISO	Ant1	5755	-11.86	≤30	PASS
		5795	-9.41	≤30	PASS
11AC80SISO	Ant1	5775	-12.98	≤30	PASS

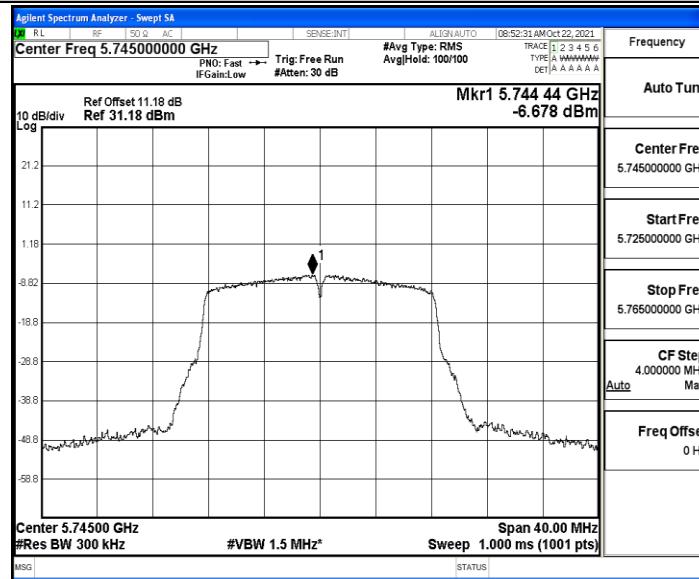
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

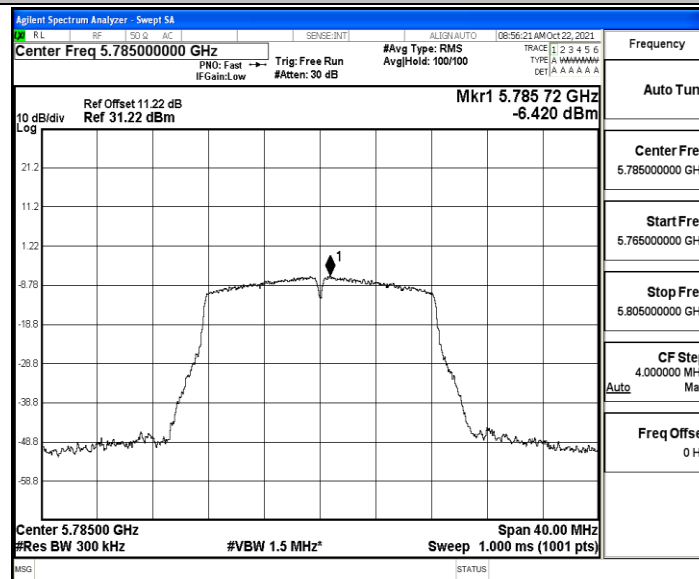


Test Graphs

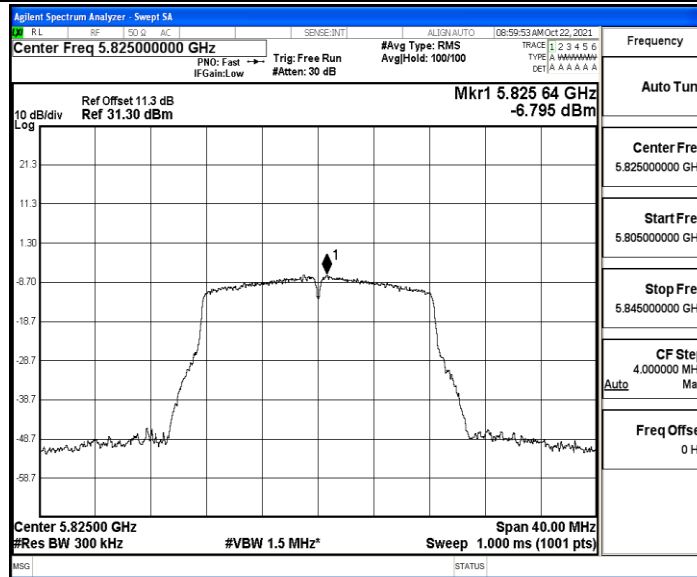
11A_Ant1_5745



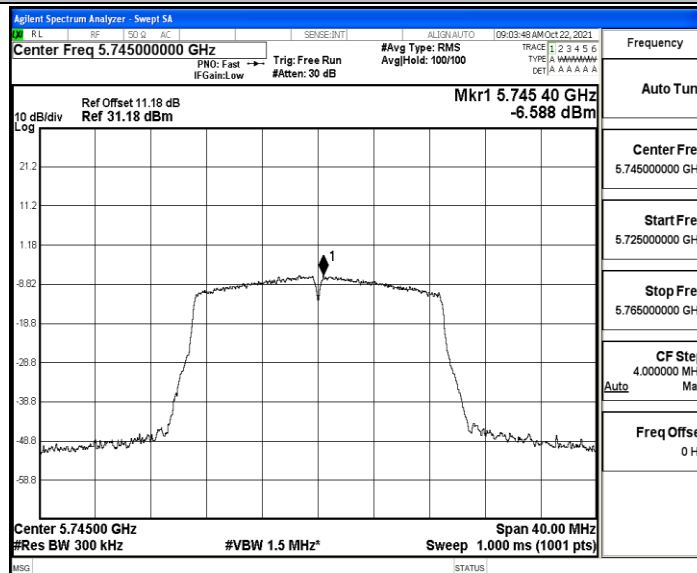
11A_Ant1_5785



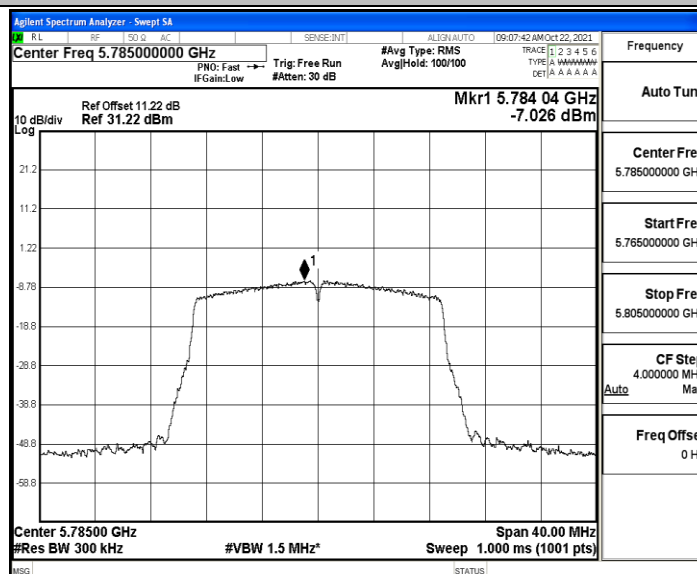
11A_Ant1_5825



11N20SISO_Ant1_5745

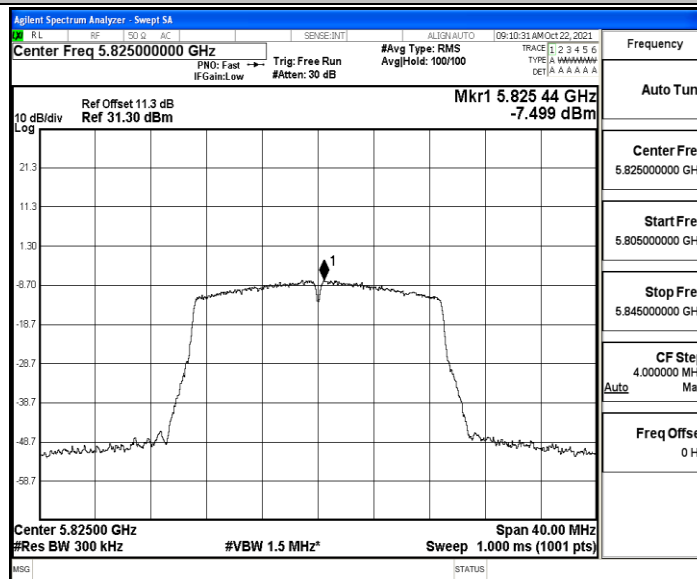


11N20SISO_Ant1_5785

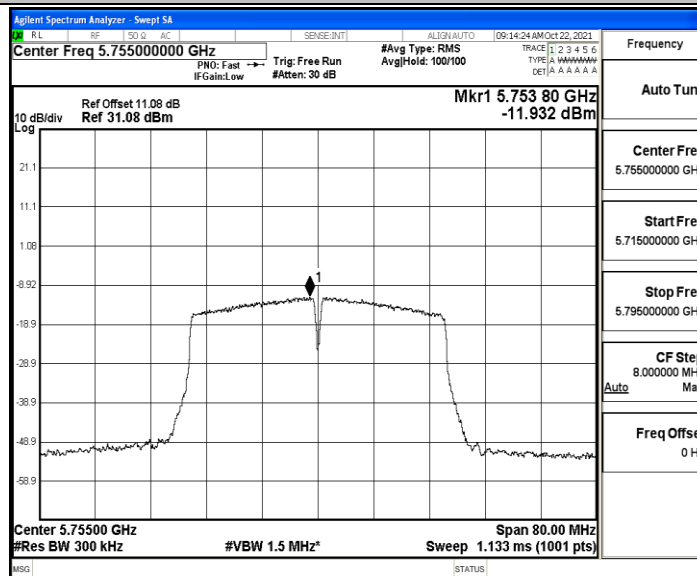




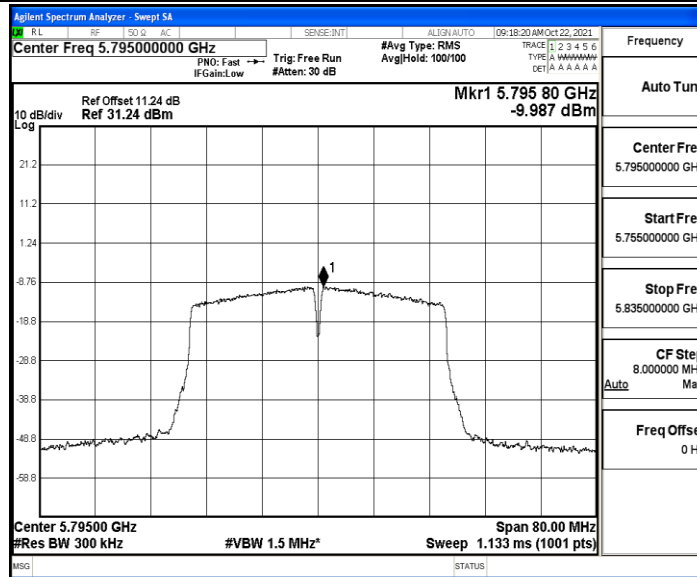
11N20SISO_Ant1_5825



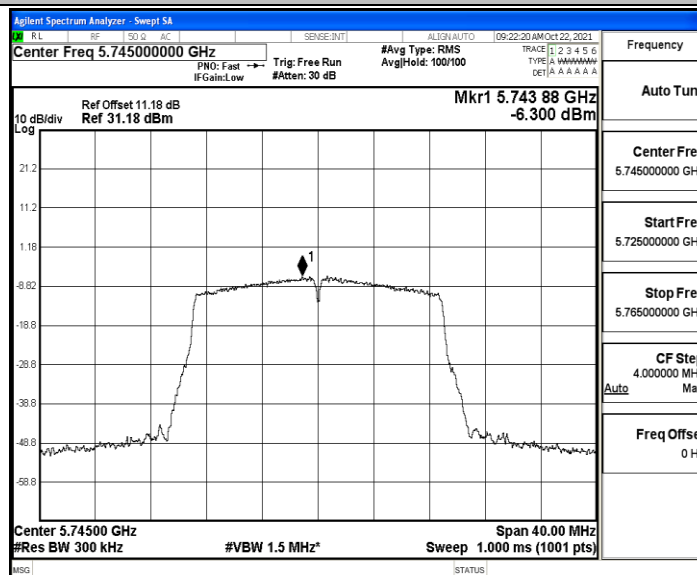
11N40SISO_Ant1_5755



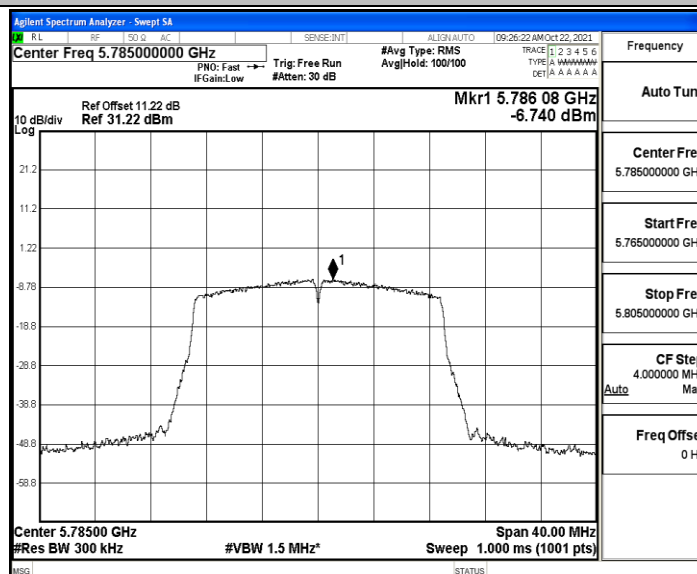
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

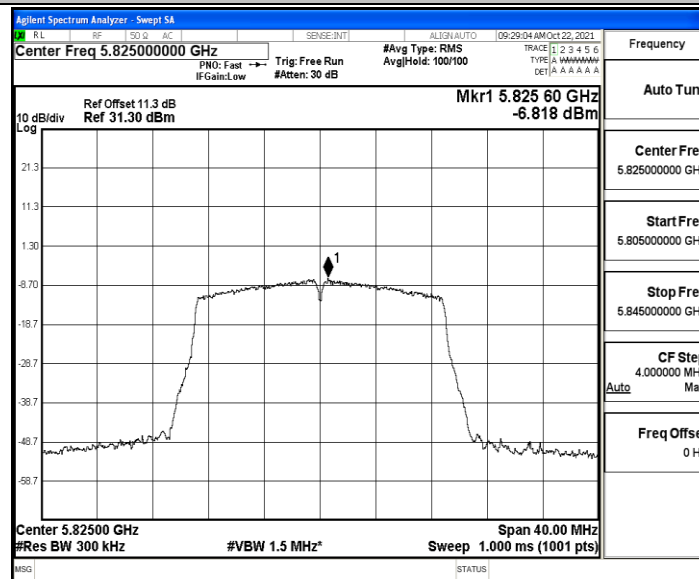


11AC20SISO_Ant1_5785

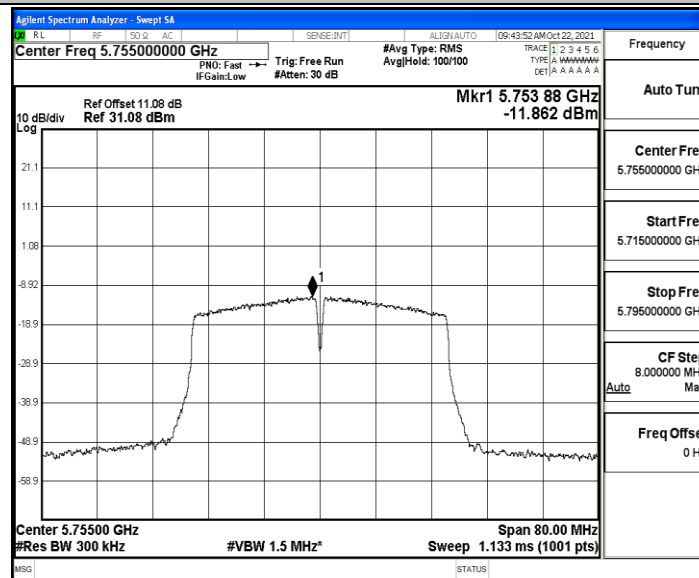




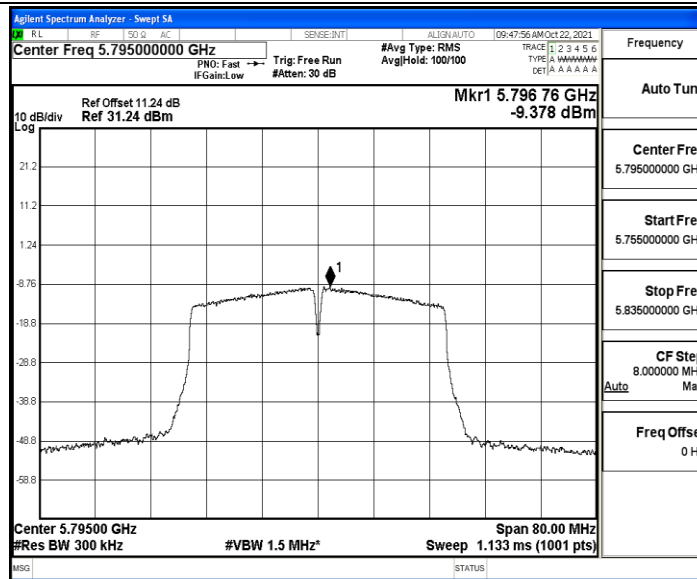
11AC20SISO_Ant1_5825



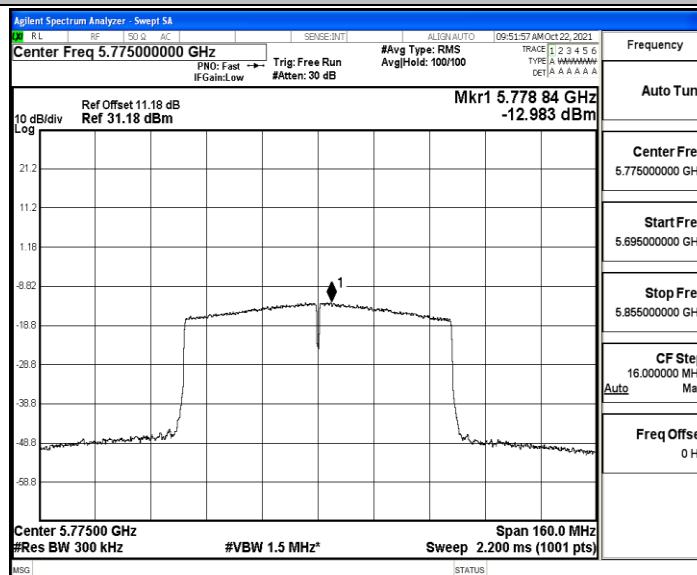
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





E.4 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	-43.197	≤-27.00	---	---	PASS
				Peak	5700.000	-42.78	≤10.00	---	---	PASS
				Peak	5720.000	-39.8	≤15.60	---	---	PASS
				Peak	5725.000	-39.87	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-37.42	≤15.60	---	---	PASS
				Peak	5855.000	-40.22	≤27.00	---	---	PASS
				Peak	5875.000	-39.96	≤15.60	---	---	PASS
				Peak	5925.000	-41.06	≤10.00	---	---	PASS
11N20SI SO	Ant1	Low	5745	Peak	5650.000	-43.143	≤-27.00	---	---	PASS
				Peak	5700.000	-42.25	≤10.00	---	---	PASS
				Peak	5720.000	-36.15	≤15.60	---	---	PASS
				Peak	5725.000	-41.99	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.912	≤15.60	---	---	PASS
				Peak	5855.000	-42.62	≤27.00	---	---	PASS
				Peak	5875.000	-41.28	≤15.60	---	---	PASS
				Peak	5925.000	-40.08	≤10.00	---	---	PASS
11N40SI SO	Ant1	Low	5755	Peak	5650.000	-43.11	≤-27.00	---	---	PASS
				Peak	5700.000	-40.95	≤10.00	---	---	PASS
				Peak	5720.000	-41.06	≤15.60	---	---	PASS
				Peak	5725.000	-37.32	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-41.203	≤15.60	---	---	PASS
				Peak	5855.000	-43.37	≤27.00	---	---	PASS
				Peak	5875.000	-41.6	≤15.60	---	---	PASS
				Peak	5925.000	-42.42	≤10.00	---	---	PASS
11AC20S ISO	Ant1	Low	5745	Peak	5650.000	-42.547	≤-27.00	---	---	PASS
				Peak	5700.000	-42.47	≤10.00	---	---	PASS
				Peak	5720.000	-40.37	≤15.60	---	---	PASS
				Peak	5725.000	-42.75	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.421	≤15.60	---	---	PASS
				Peak	5855.000	-44.87	≤27.00	---	---	PASS
				Peak	5875.000	-43.15	≤15.60	---	---	PASS
				Peak	5925.000	-40.8	≤10.00	---	---	PASS
11AC40S ISO	Ant1	Low	5755	Peak	5650.000	-40.552	≤-27.00	---	---	PASS
				Peak	5700.000	-42.29	≤10.00	---	---	PASS
				Peak	5720.000	-39.82	≤15.60	---	---	PASS
				Peak	5725.000	-41.15	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-42.179	≤15.60	---	---	PASS



11AC80S ISO	Ant1	Low	5775	Peak	5855.000	-39.54	≤ 27.00	---	---	PASS
				Peak	5875.000	-41.27	≤ 15.60	---	---	PASS
				Peak	5925.000	-41.77	≤ 10.00	- --	- --	PASS
				Peak	5650.000	-42.442	≤ -27.00	---	---	PASS
		High	5775	Peak	5700.000	-38.99	≤ 10.00	---	---	PASS
				Peak	5720.000	-35.83	≤ 15.60	---	---	PASS
				Peak	5725.000	-36.72	≤ 27.00	- --	- --	PASS
				Peak	5850.000	-40.606	≤ 15.60	---	---	PASS
			5775	Peak	5855.000	-40.21	≤ 27.00	---	---	PASS
				Peak	5875.000	-41.54	≤ 15.60	---	---	PASS
				Peak	5875.000	-41.54	≤ 15.60	---	---	PASS
				Peak	5925.000	-42.85	≤ 10.00	- --	- --	PASS

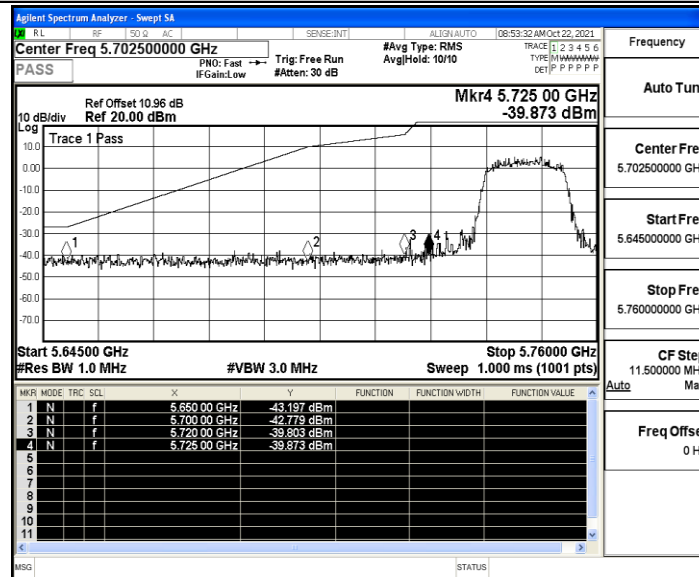
Note:

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.

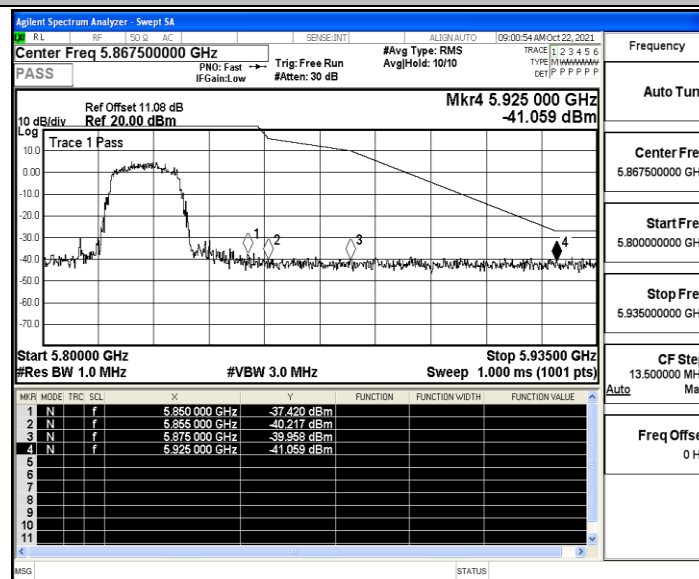


Test Graphs

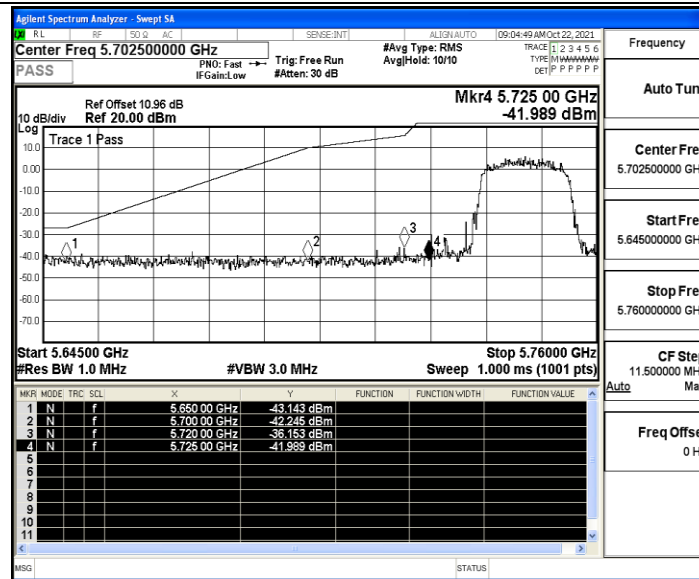
11A_Ant1_Low_5745_Peak



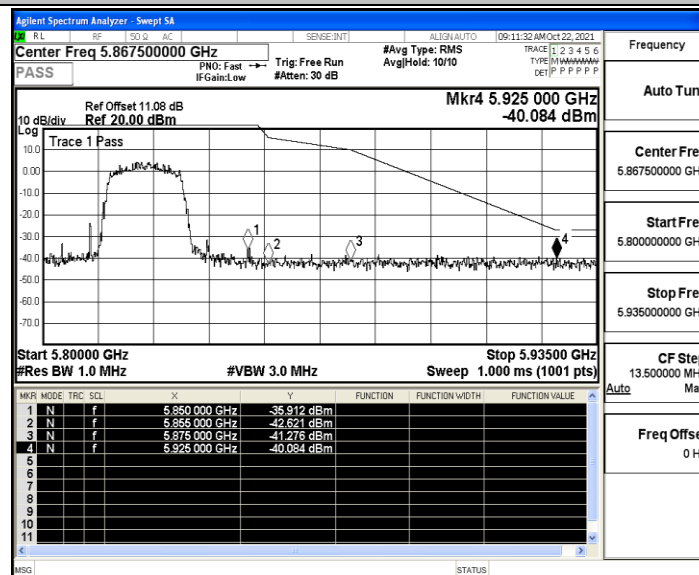
11A_Ant1_High_5825_Peak



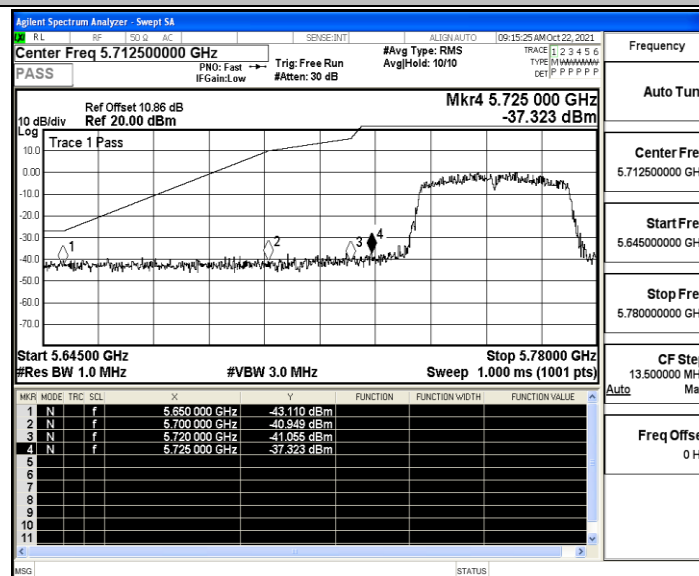
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak

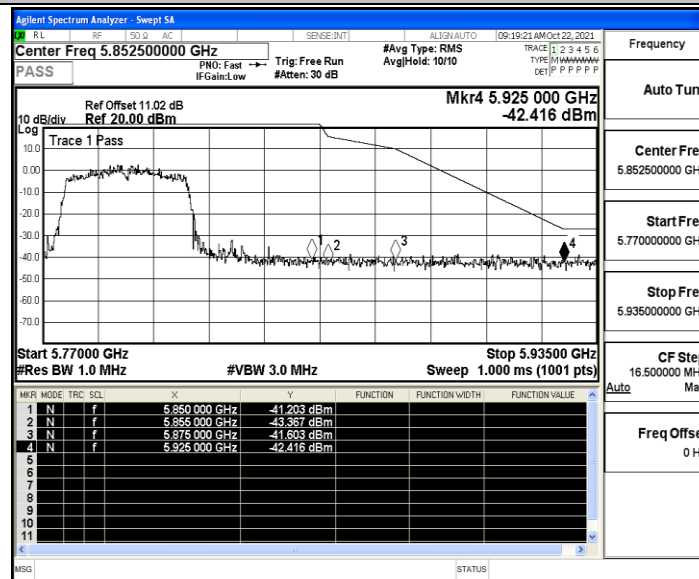


11N40SISO_Ant1_Low_5755_Peak

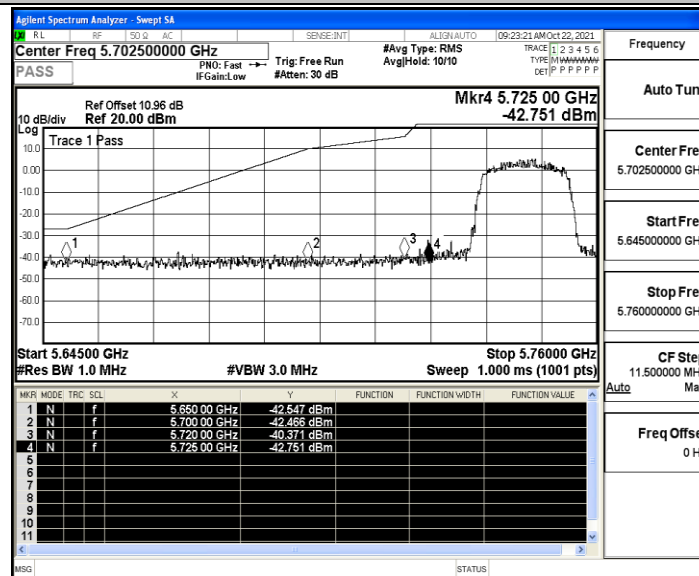




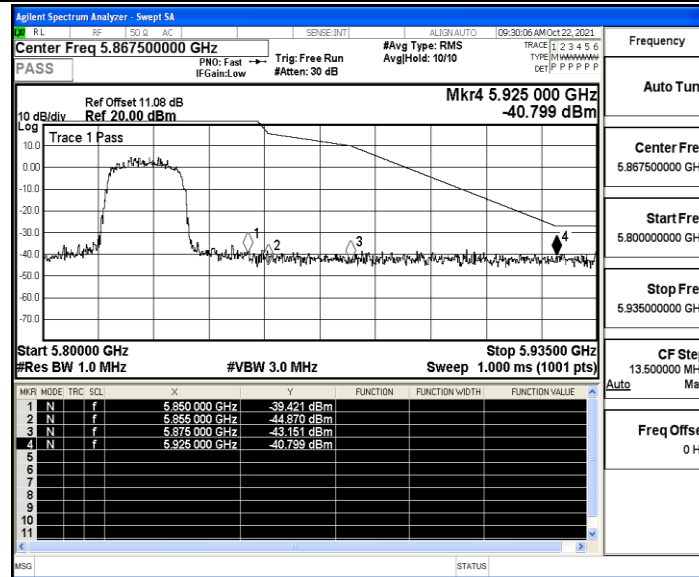
11N40SISO_Ant1_High_5795_Peak



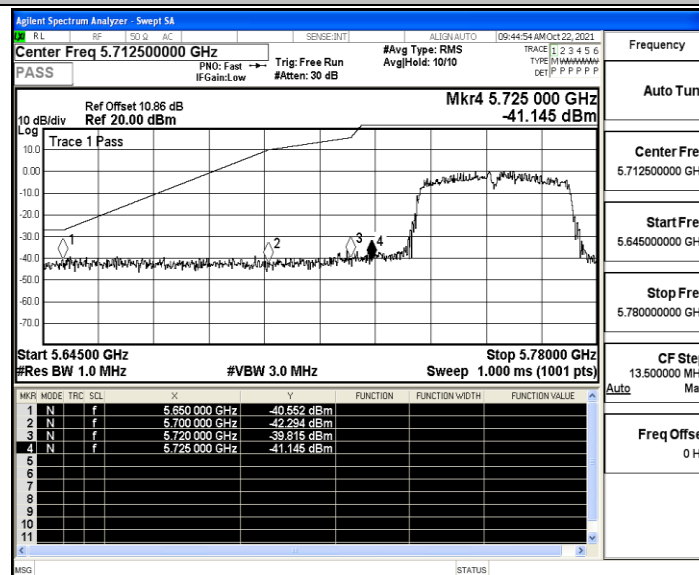
11AC20SISO_Ant1_Low_5745_Peak



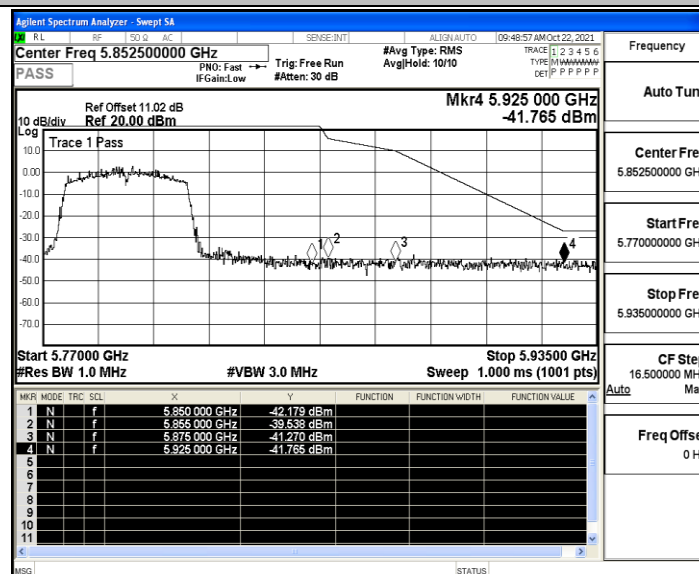
11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

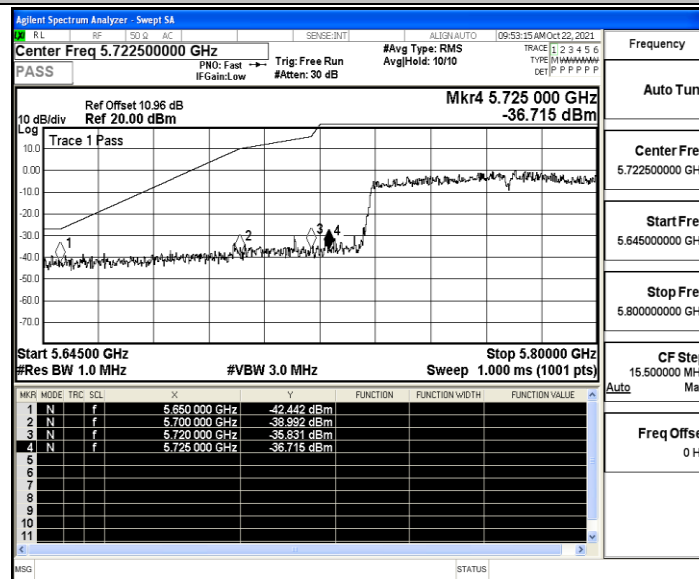


11AC40SISO_Ant1_High_5795_Peak

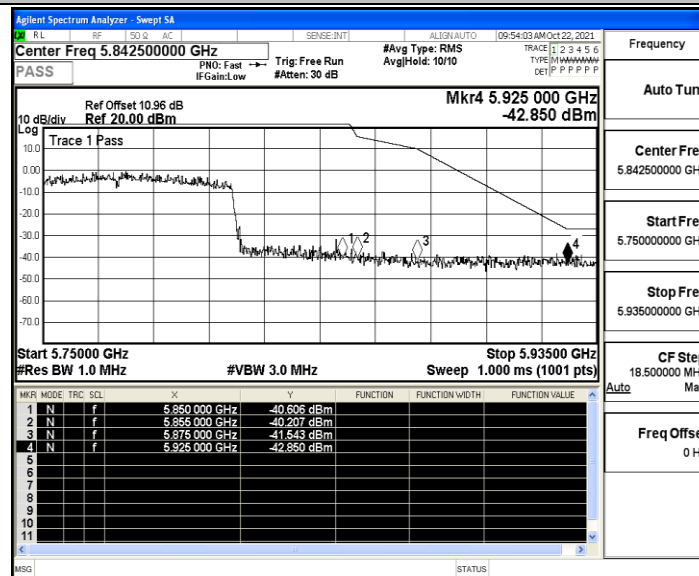




11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak





E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5745	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5785	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5825	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
11AC40SIS O	Ant1	5755	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5795	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
11AC80SIS O	Ant1	5775	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5745	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
		5785	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS



			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	1000	0.172861	20	PASS
			NV	50	0	0	20	PASS
		5825	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
11AC40SIS O	Ant1	5755	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	1000	0.173762	20	PASS
			NV	0	1000	0.173762	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
		5795	NV	50	0	0	20	PASS
			NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
11AC80SIS O	Ant1	5775	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	1000	0.17316	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS



E.6 Duty Cycle

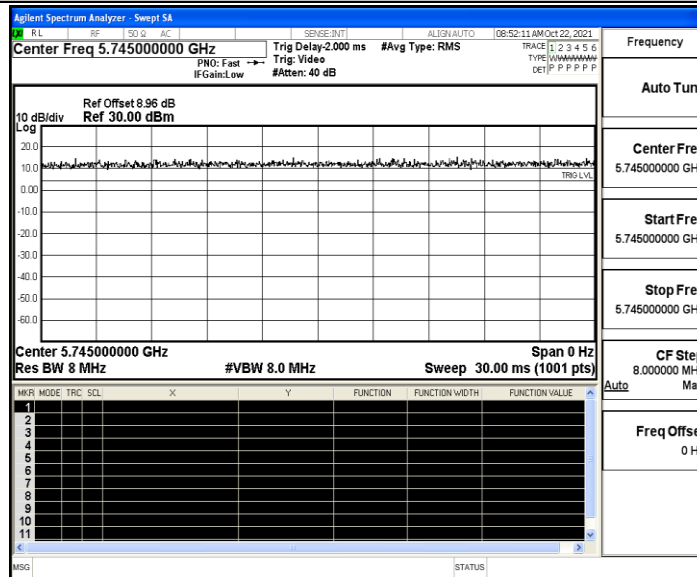
Test Result

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

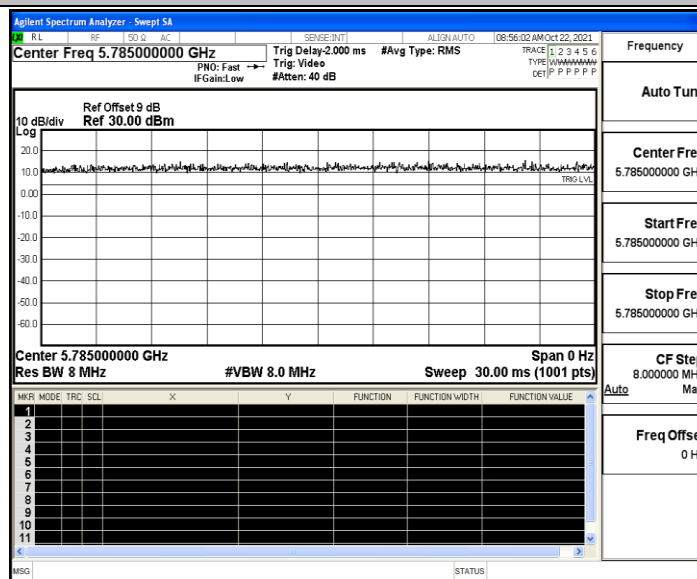


Test Graphs

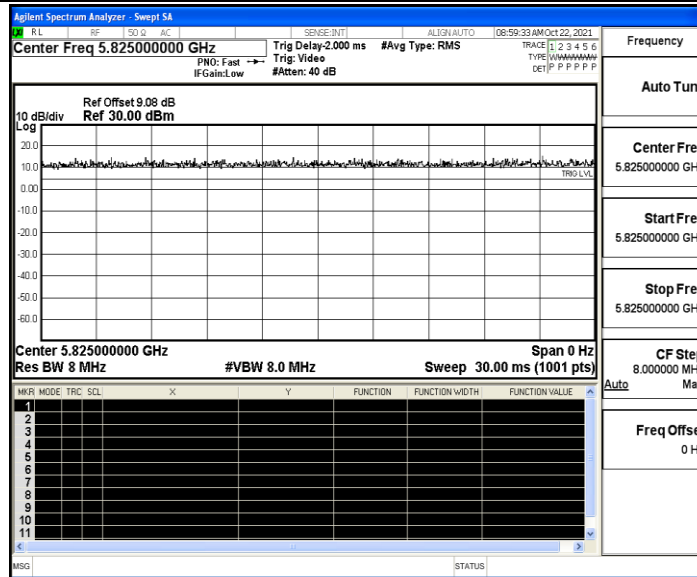
11A_Ant1_5745



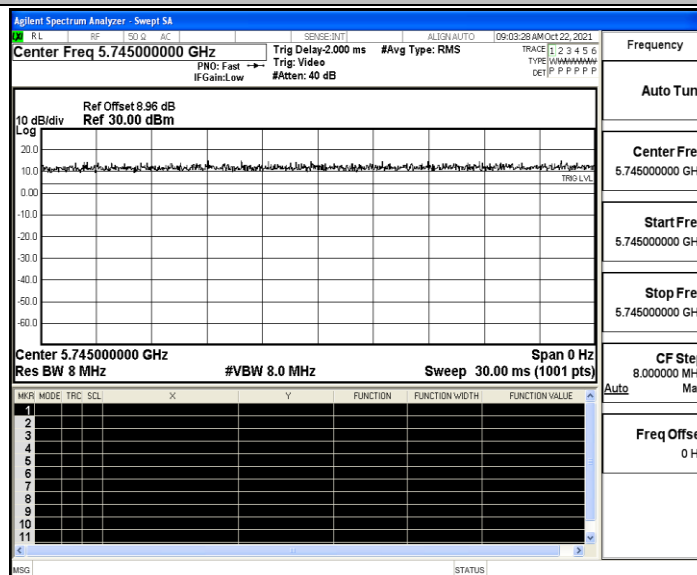
11A_Ant1_5785



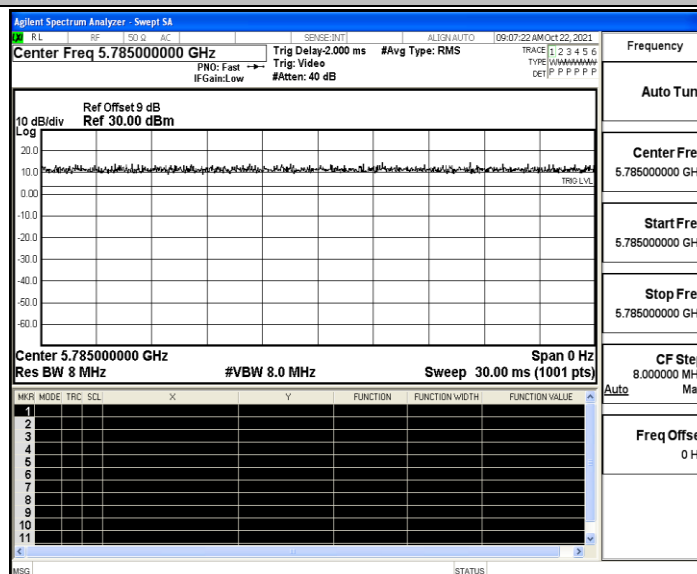
11A_Ant1_5825



11N20SISO_Ant1_5745

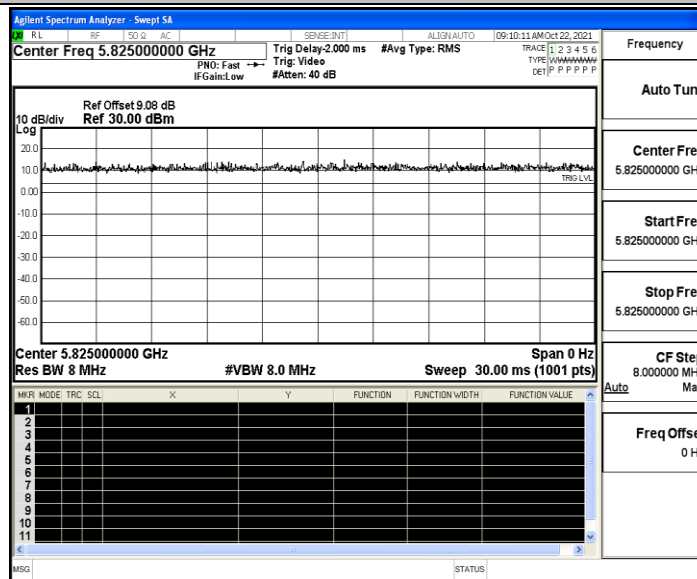


11N20SISO_Ant1_5785

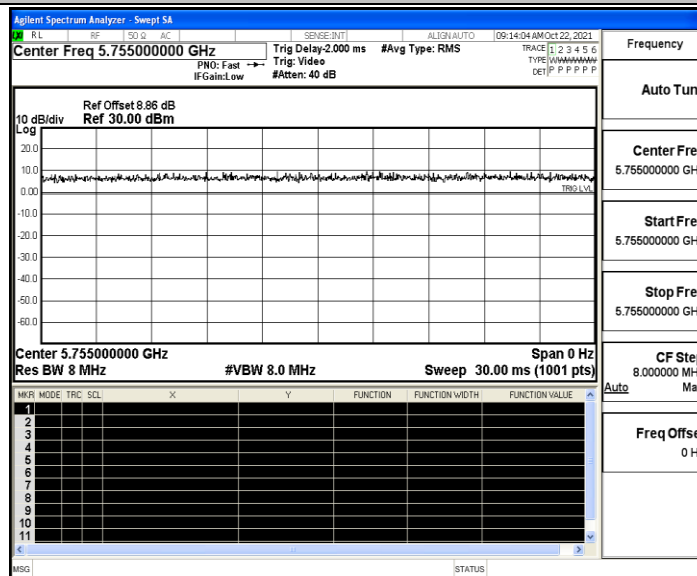




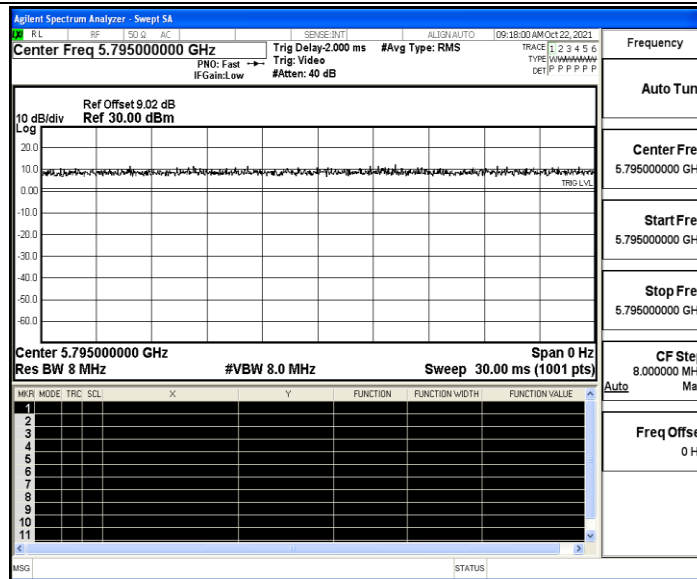
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



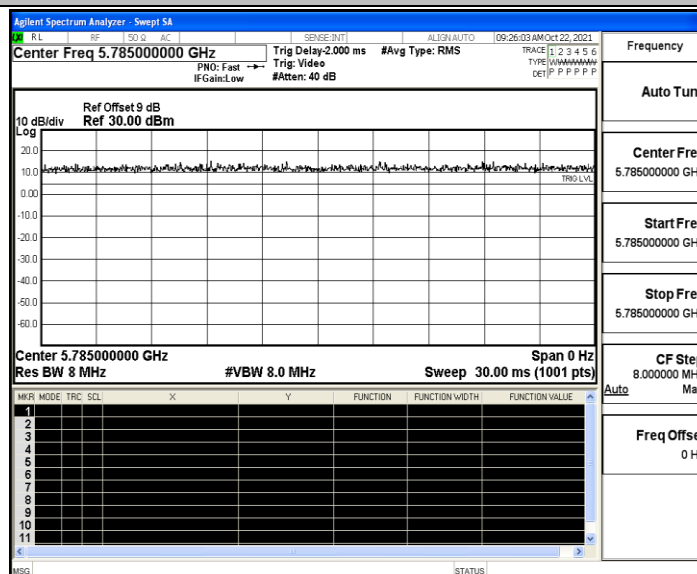
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

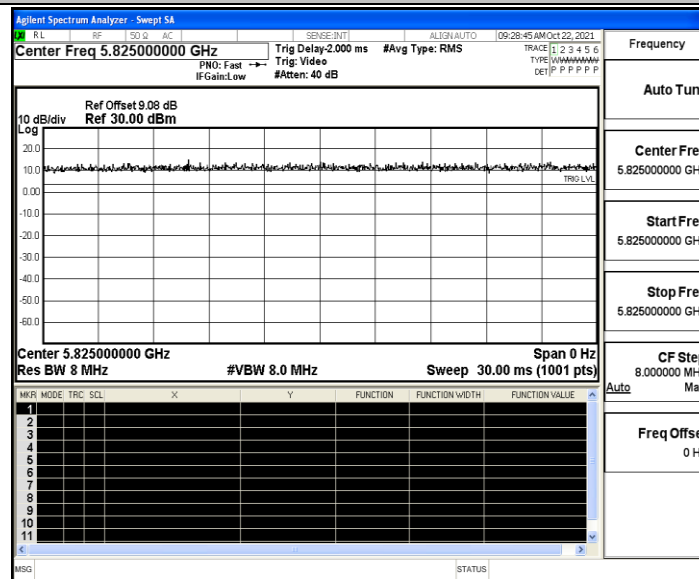


11AC20SISO_Ant1_5785

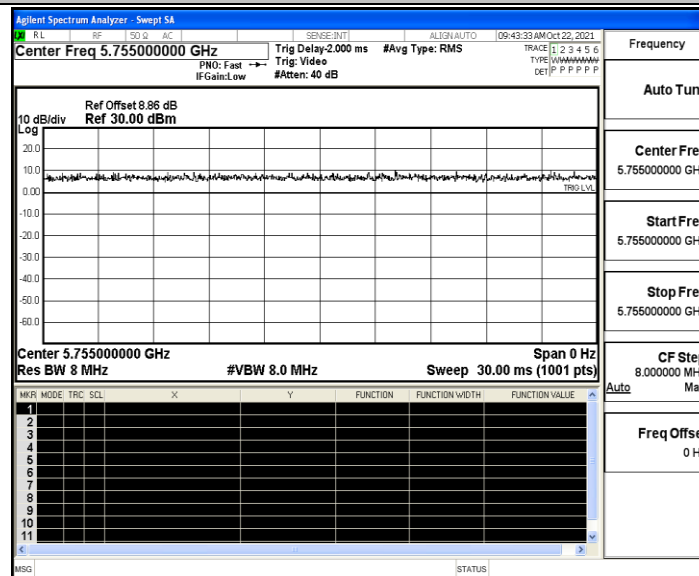




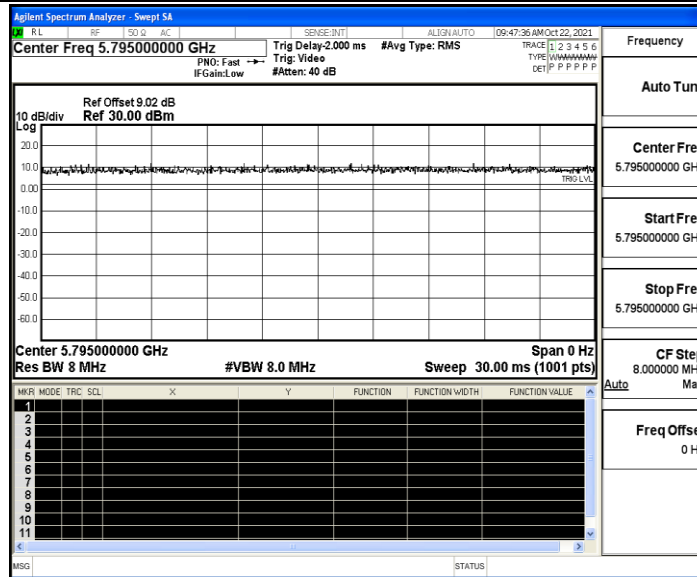
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

