



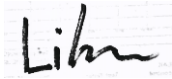
Appendix A

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: CamFi 3 Remote Camera Controller

Test Model: CF301

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	



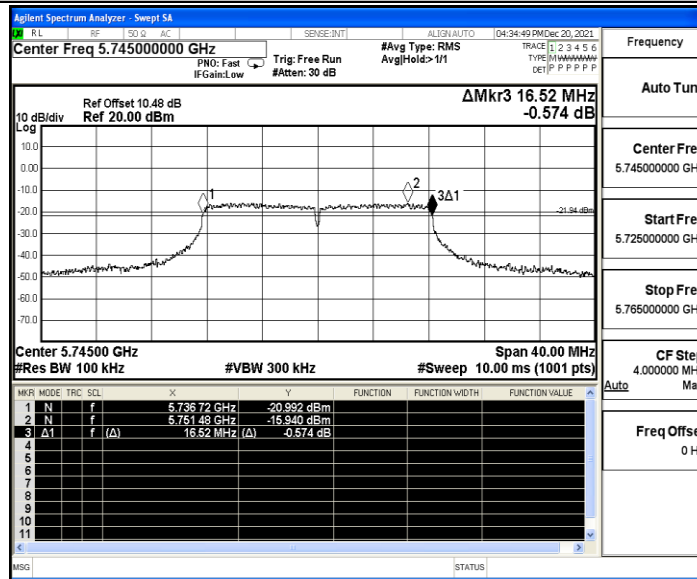
A.1.1 6dB Bandwidth

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.520	5736.720	5753.240	0.5	PASS
		5785	16.520	5776.720	5793.240	0.5	PASS
		5825	16.560	5816.680	5833.240	0.5	PASS
11N20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.680	5736.120	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.680	5816.120	5833.800	0.5	PASS
11AC40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC80SISO	Ant1	5775	76.320	5736.760	5813.080	0.5	PASS

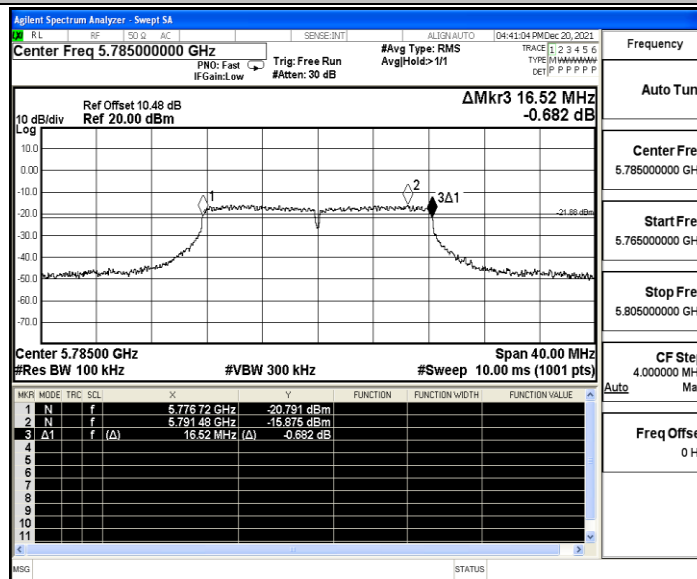


Test Graphs

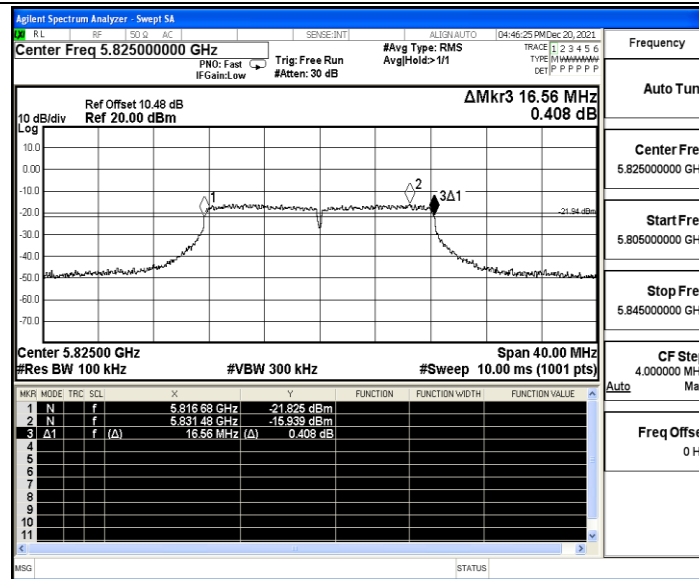
11A_Ant1_5745



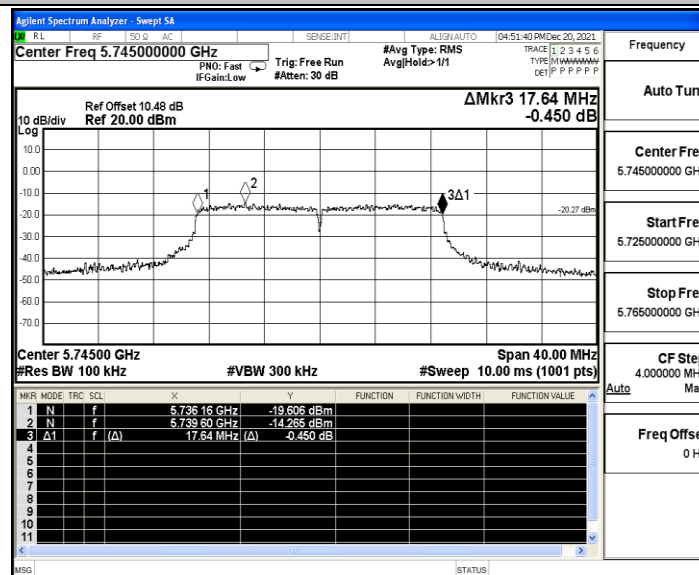
11A_Ant1_5785



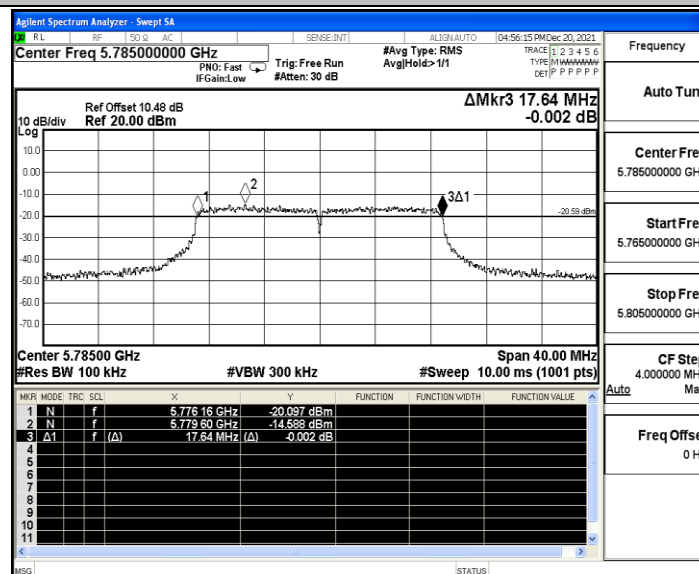
11A_Ant1_5825



11N20SISO_Ant1_5745

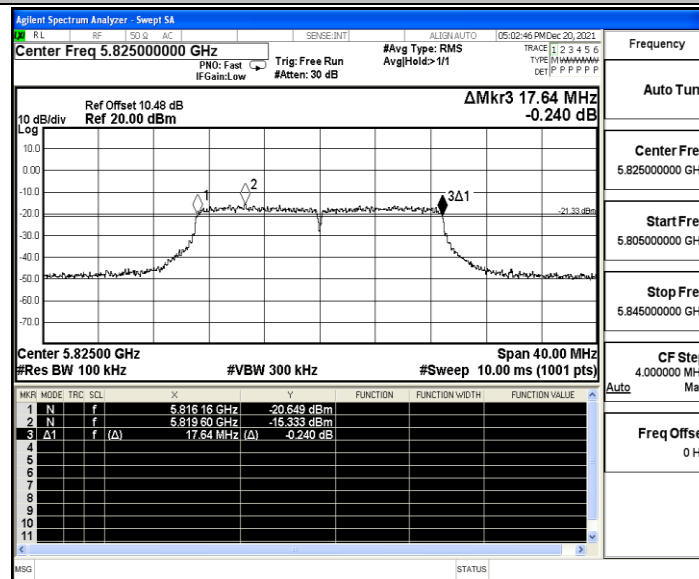


11N20SISO_Ant1_5785

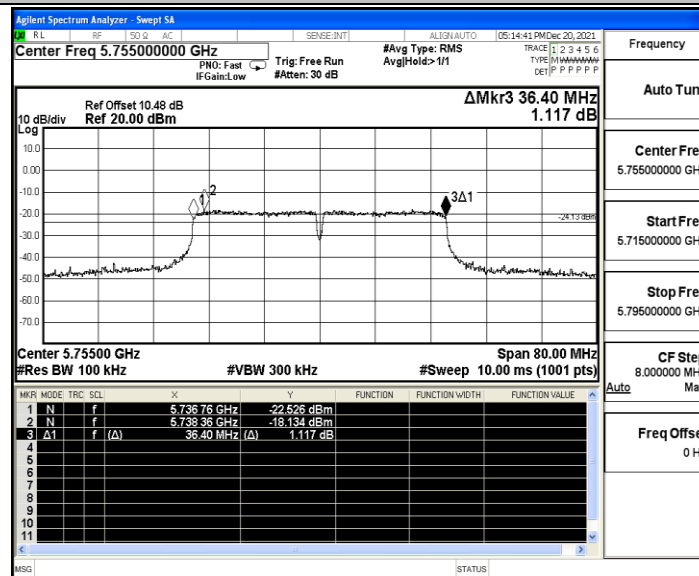




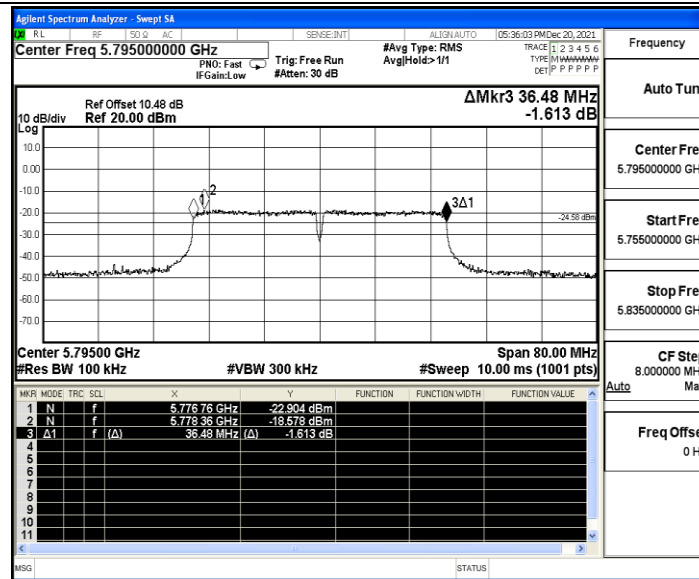
11N20SISO_Ant1_5825



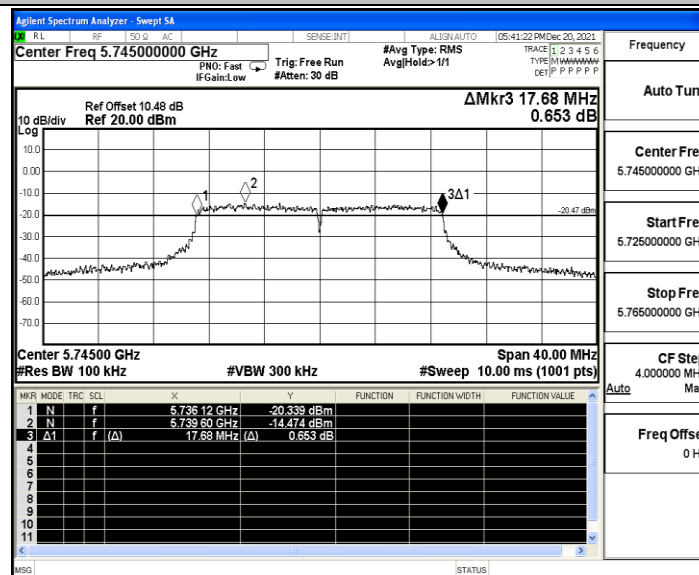
11N40SISO_Ant1_5755



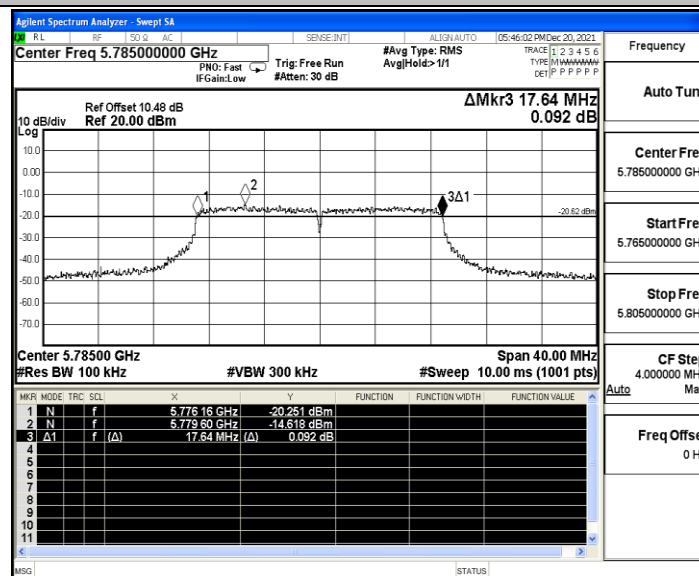
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

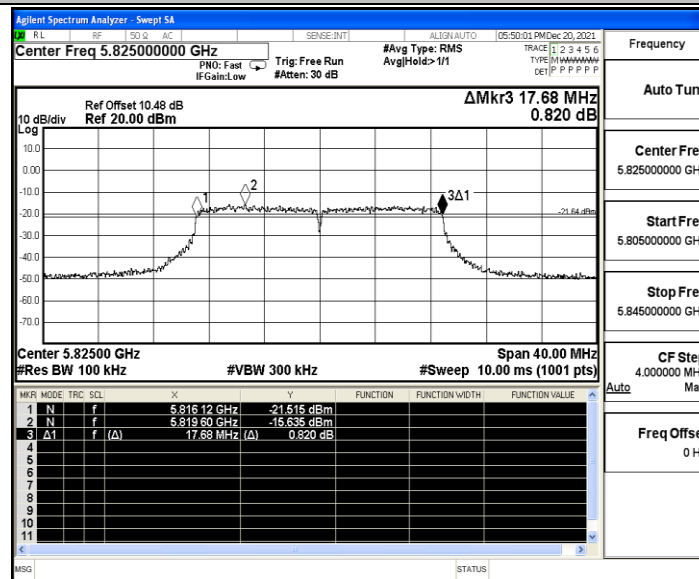


11AC20SISO_Ant1_5785

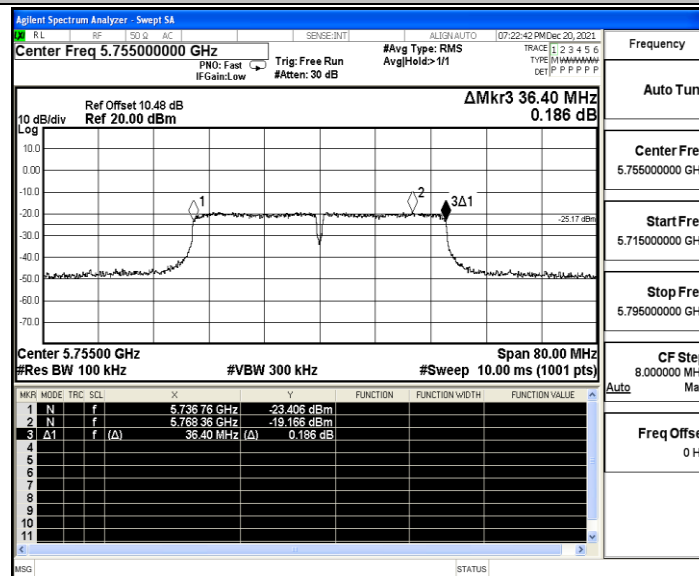




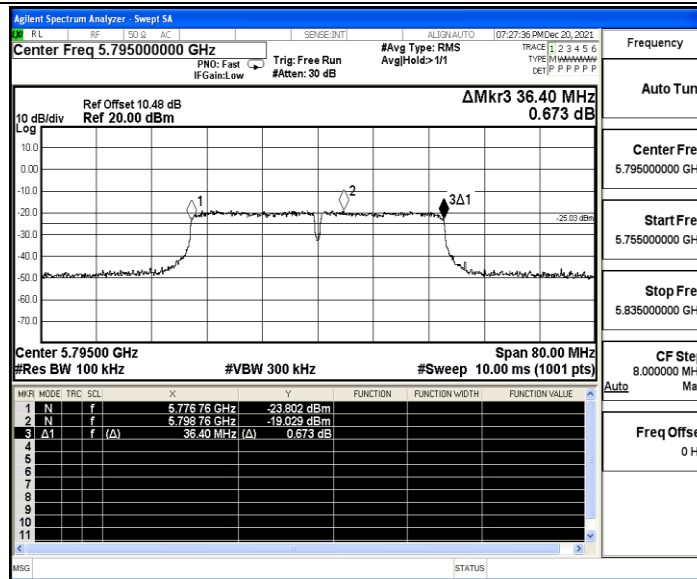
11AC20SISO_Ant1_5825



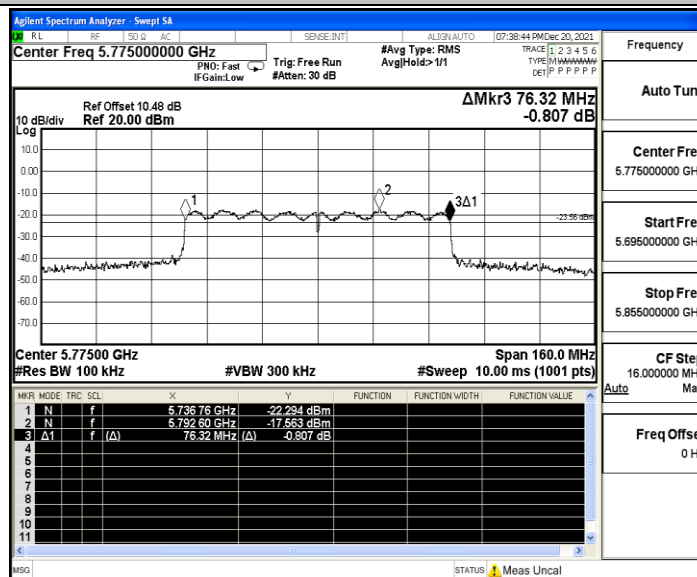
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





A.1.2 26dB Bandwidth

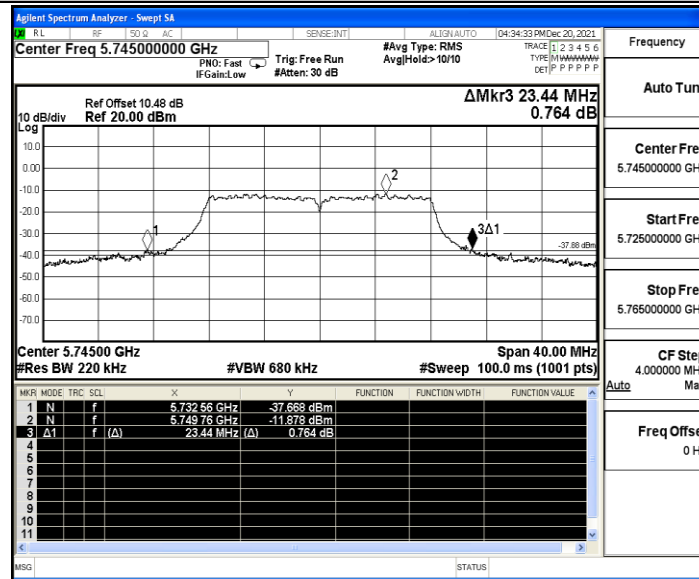
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	23.440	5732.560	5756.000	---	---
		5785	22.160	5773.960	5796.120	---	---
		5825	22.080	5814.000	5836.080	---	---
11N20SISO	Ant1	5745	23.880	5733.240	5757.120	---	---
		5785	22.840	5773.720	5796.560	---	---
		5825	22.120	5813.760	5835.880	---	---
11N40SISO	Ant1	5755	55.680	5725.560	5781.240	---	---
		5795	44.000	5772.760	5816.760	---	---
11AC20SISO	Ant1	5745	26.000	5733.720	5759.720	---	---
		5785	22.360	5773.720	5796.080	---	---
		5825	22.440	5813.800	5836.240	---	---
11AC40SISO	Ant1	5755	50.480	5726.120	5776.600	---	---
		5795	46.160	5771.080	5817.240	---	---
11AC80SISO	Ant1	5775	147.960	5695.980	5843.940	---	---

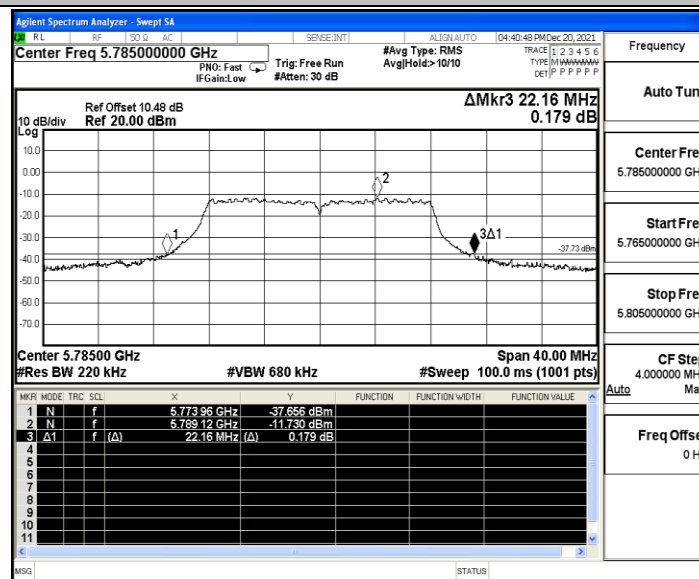


Test Graphs

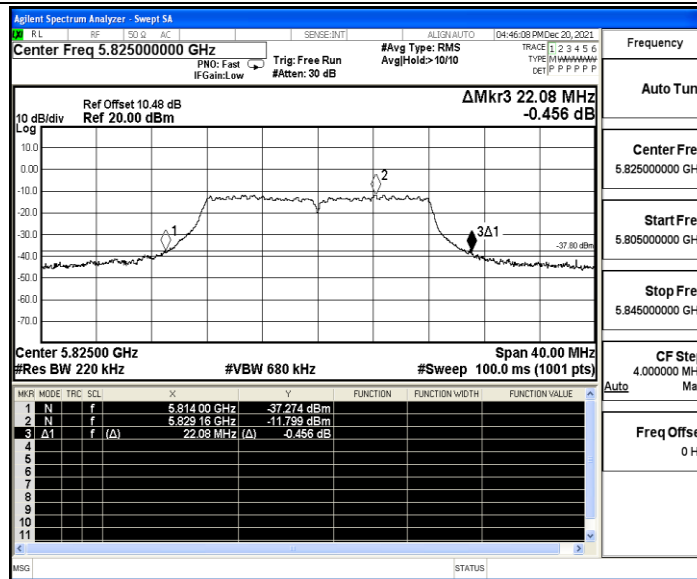
11A_Ant1_5745



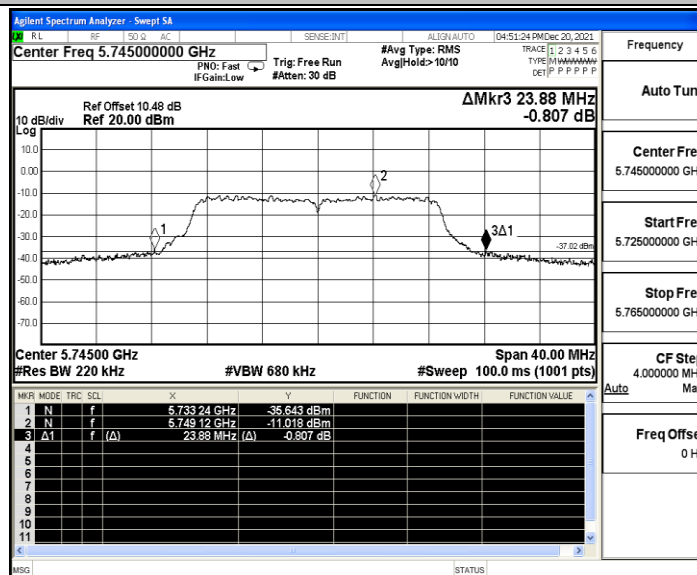
11A_Ant1_5785



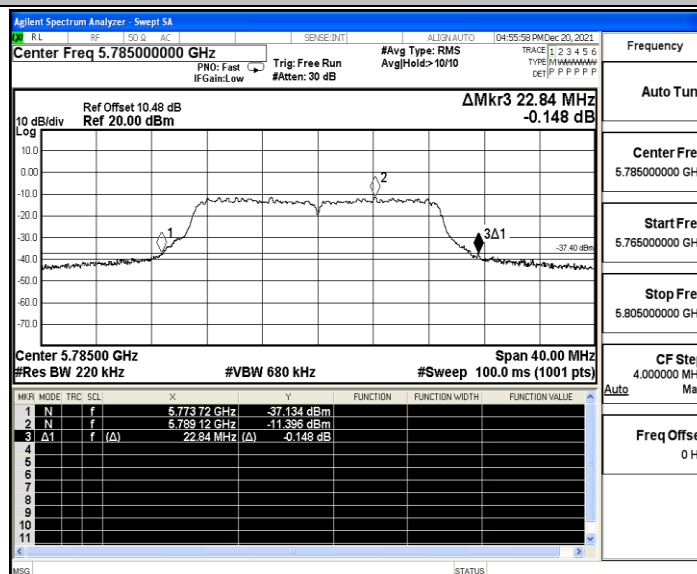
11A_Ant1_5825



11N20SISO_Ant1_5745

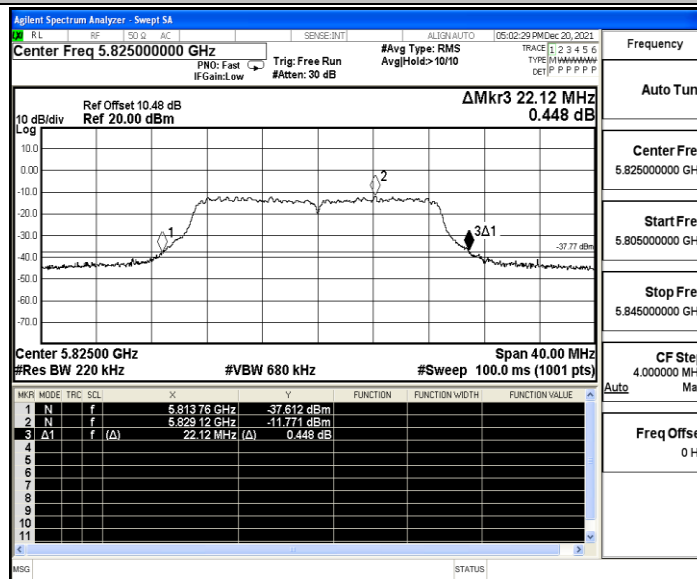


11N20SISO_Ant1_5785

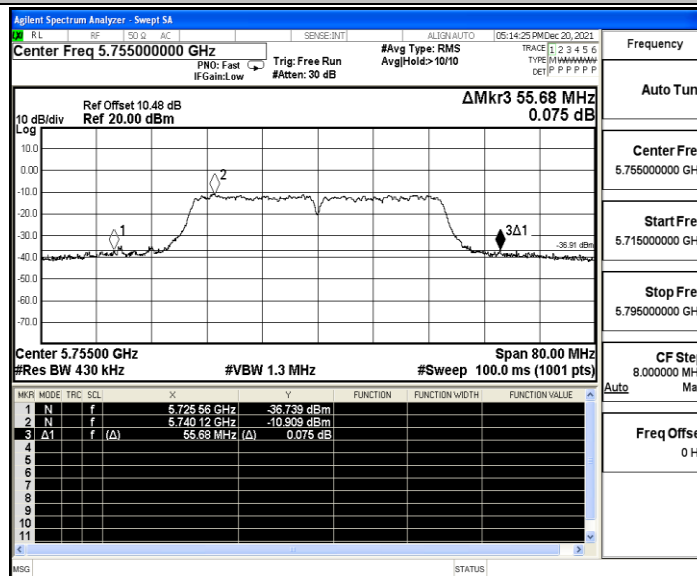




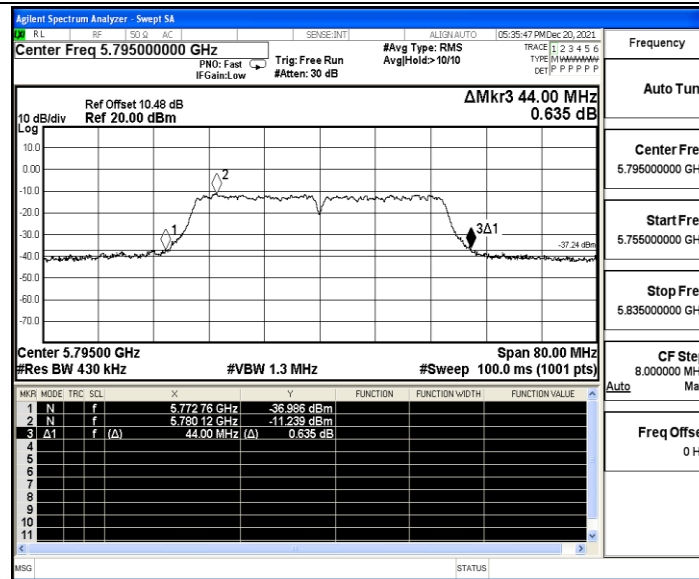
11N20SISO_Ant1_5825



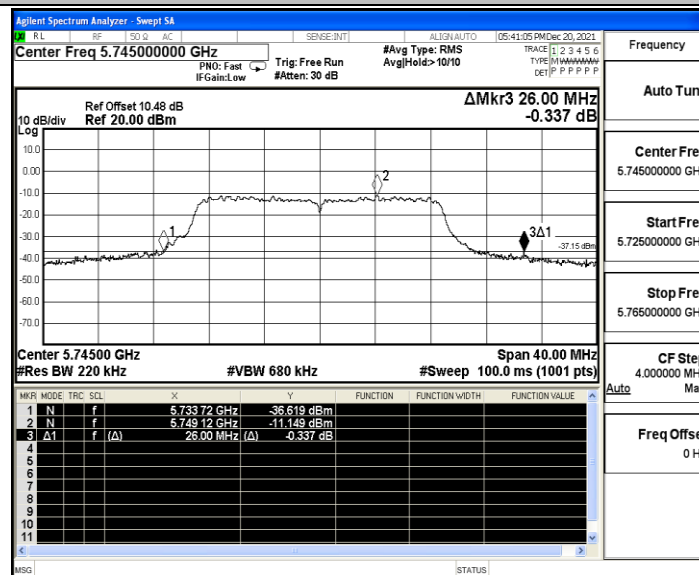
11N40SISO_Ant1_5755



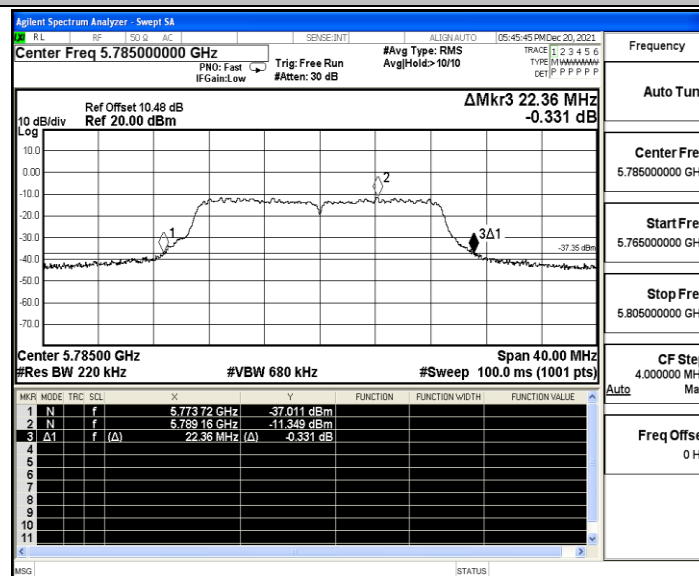
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

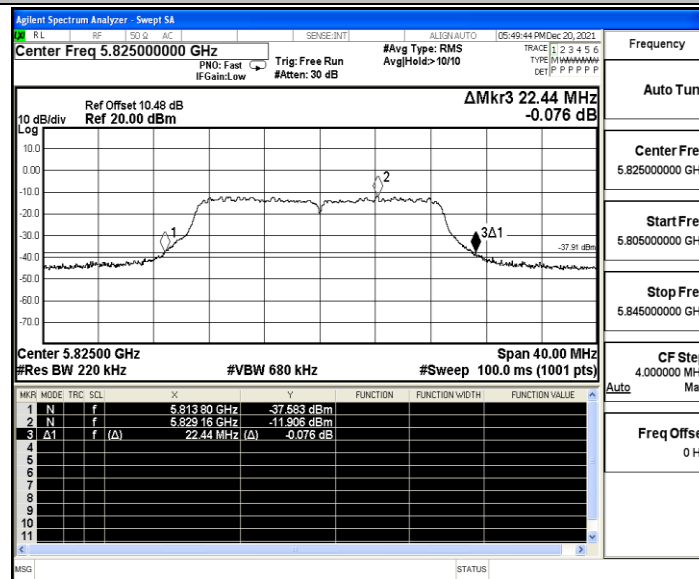


11AC20SISO_Ant1_5785

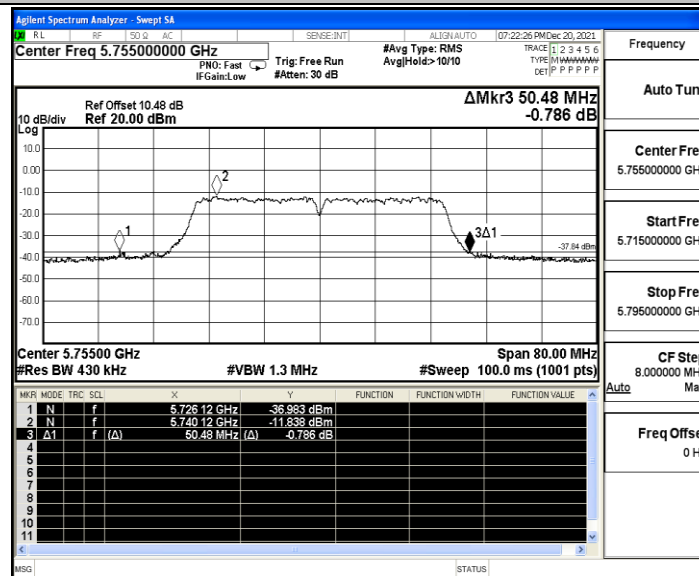




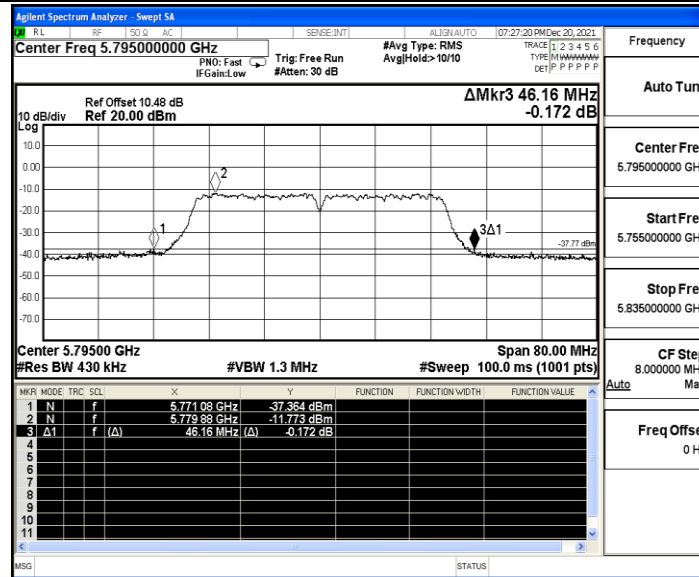
11AC20SISO_Ant1_5825



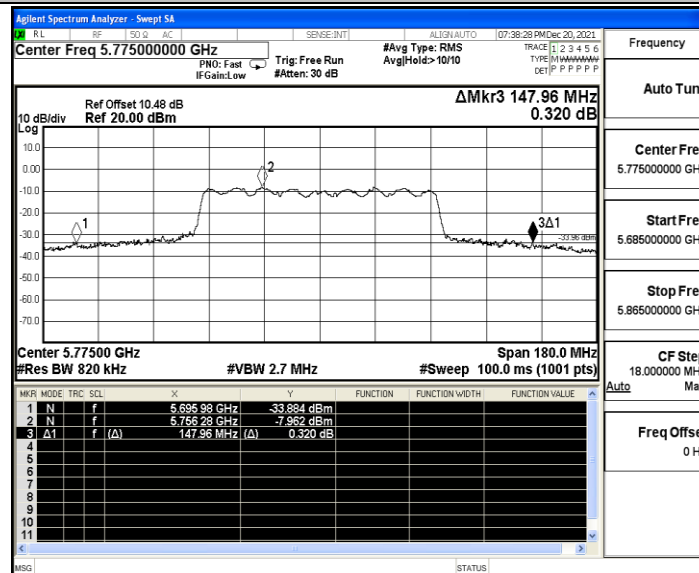
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	-1.65	≤30.00	PASS
		5785	-1.84	≤30.00	PASS
		5825	-1.60	≤30.00	PASS
11N20SISO	Ant1	5745	-0.88	≤30.00	PASS
		5785	-1.15	≤30.00	PASS
		5825	-1.74	≤30.00	PASS
11N40SISO	Ant1	5755	-0.82	≤30.00	PASS
		5795	-1.06	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.92	≤30.00	PASS
		5785	-1.18	≤30.00	PASS
		5825	-1.76	≤30.00	PASS
11AC40SISO	Ant1	5755	-1.91	≤30.00	PASS
		5795	-1.79	≤30.00	PASS
11AC80SISO	Ant1	5775	1.30	≤30.00	PASS

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



A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/300KHz]	RBW Factor (dB)	Report power spectral density [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant1	5745	--	2.218	-15.88	≤30.00	PASS
		5785	--	2.218	-16.05	≤30.00	PASS
		5825	--	2.218	-15.77	≤30.00	PASS
11N20SISO	Ant1	5745	--	2.218	-15.23	≤30.00	PASS
		5785	--	2.218	-15.54	≤30.00	PASS
		5825	--	2.218	-16.19	≤30.00	PASS
11N40SISO	Ant1	5755	--	2.218	-18.41	≤30.00	PASS
		5795	--	2.218	-18.58	≤30.00	PASS
11AC20SISO	Ant1	5745	--	2.218	-15.3	≤30.00	PASS
		5785	--	2.218	-15.57	≤30.00	PASS
		5825	--	2.218	-16.13	≤30.00	PASS
11AC40SISO	Ant1	5755	--	2.218	-19.47	≤30.00	PASS
		5795	--	2.218	-19.43	≤30.00	PASS
11AC80SISO	Ant1	5775	--	2.218	-18.43	≤30.00	PASS

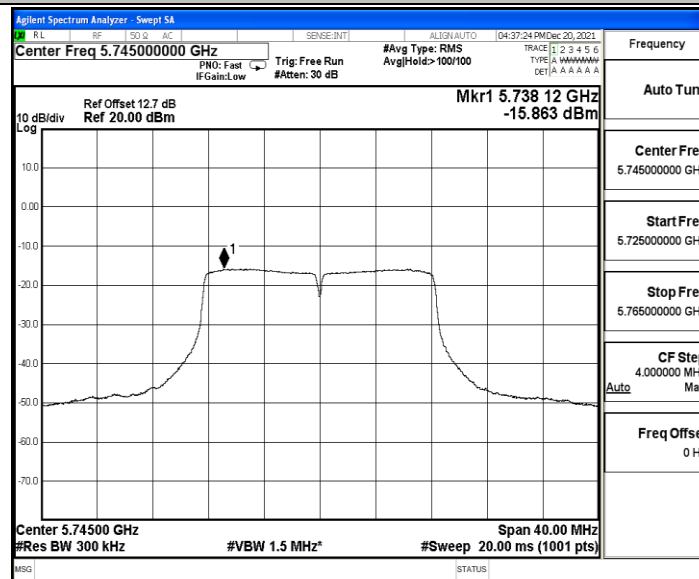
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

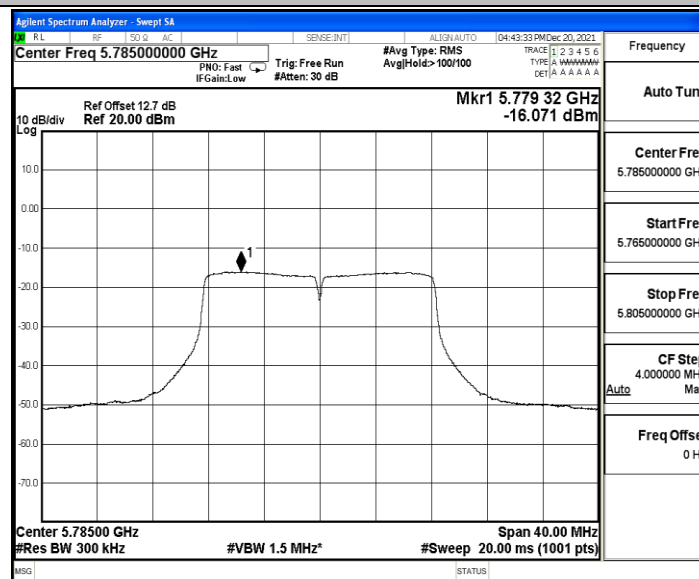


Test Graphs

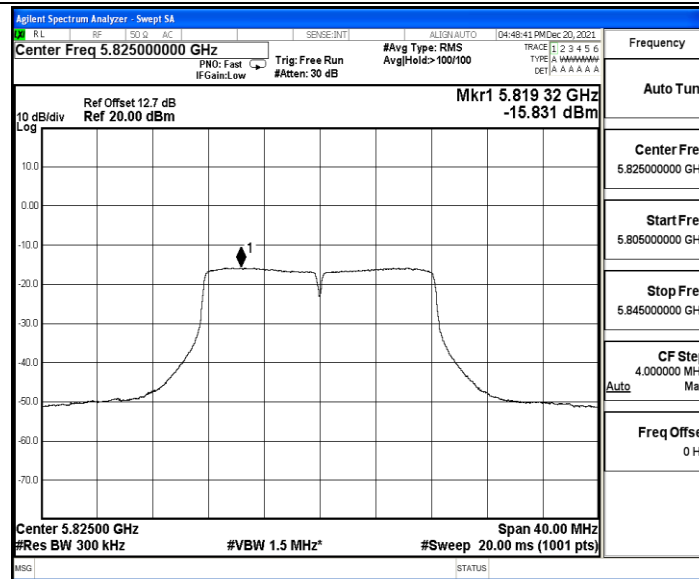
11A_Ant1_5745



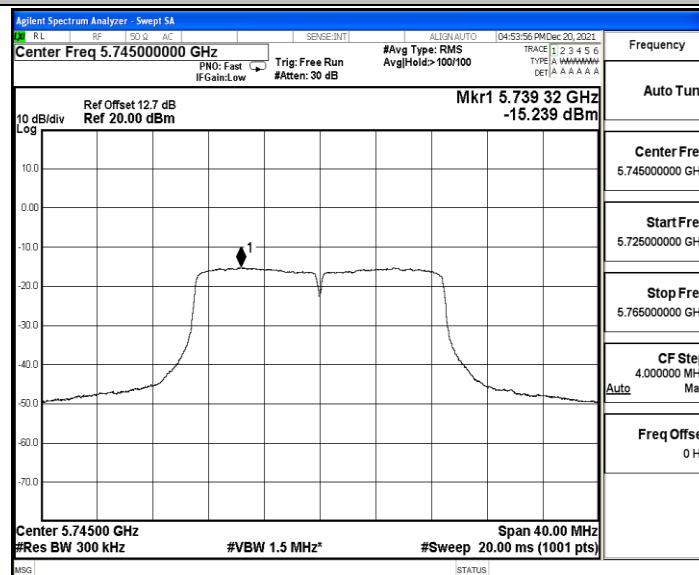
11A_Ant1_5785



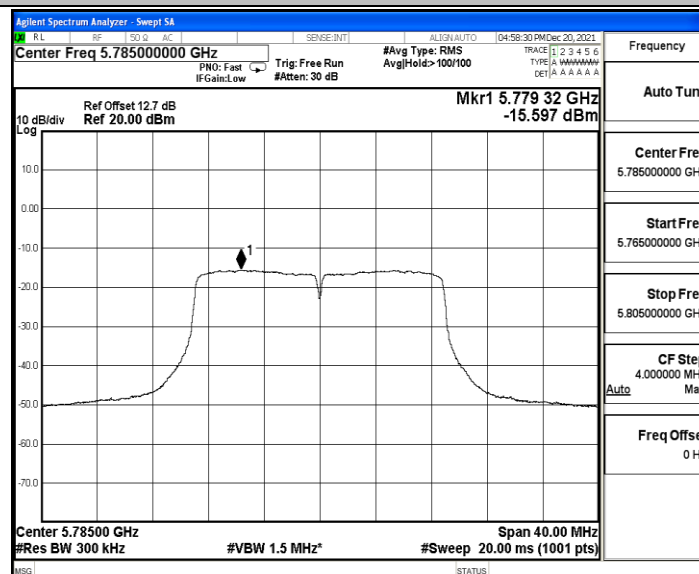
11A_Ant1_5825



11N20SISO_Ant1_5745

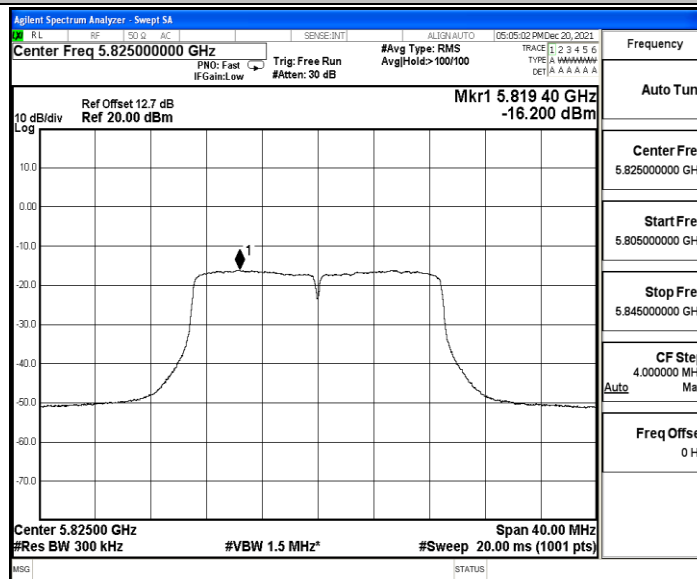


11N20SISO_Ant1_5785

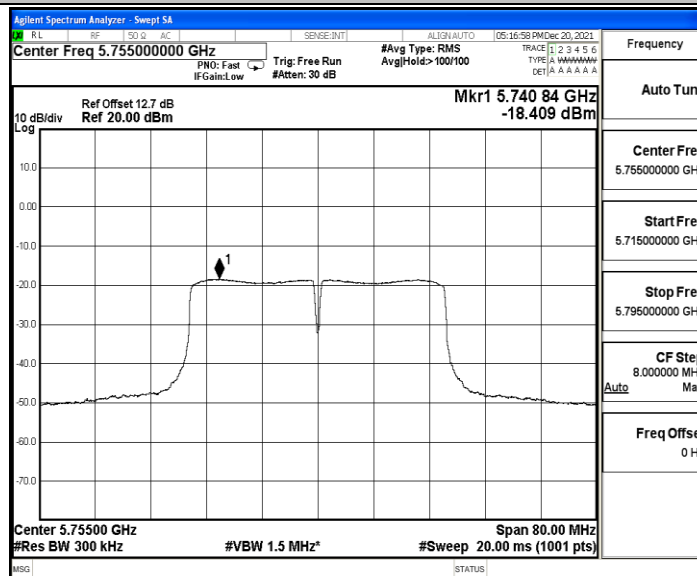




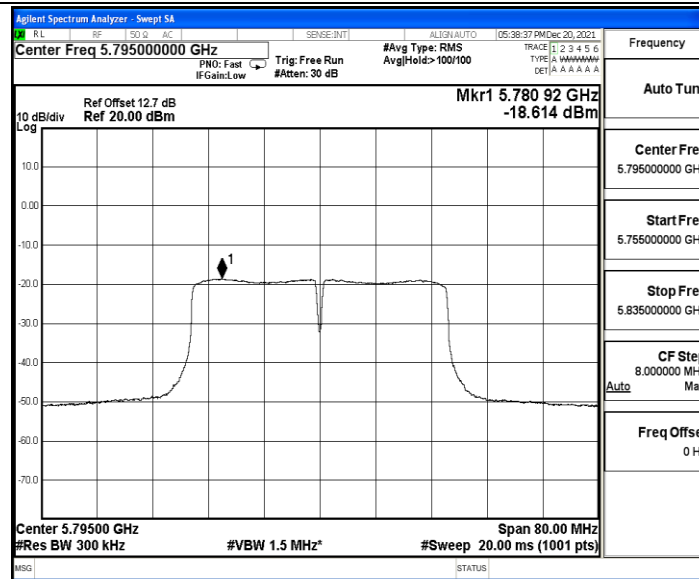
11N20SISO_Ant1_5825



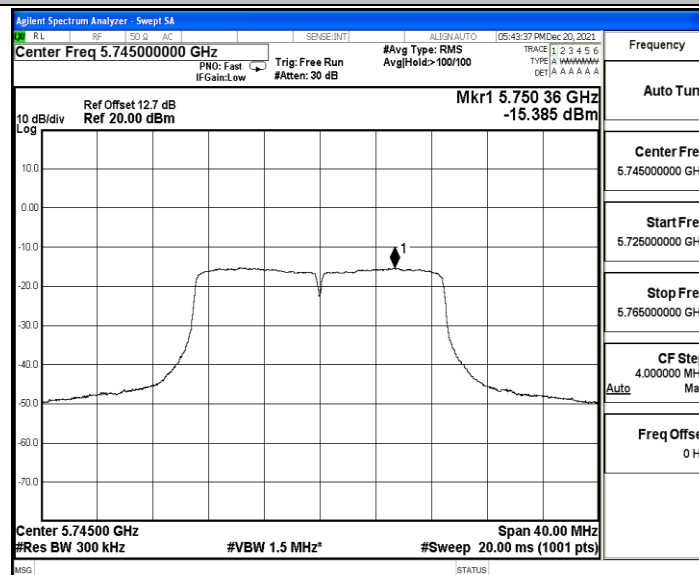
11N40SISO_Ant1_5755



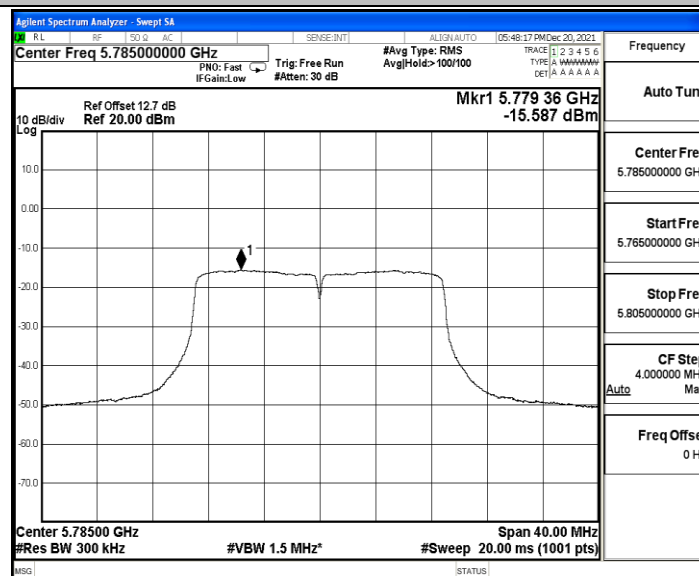
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

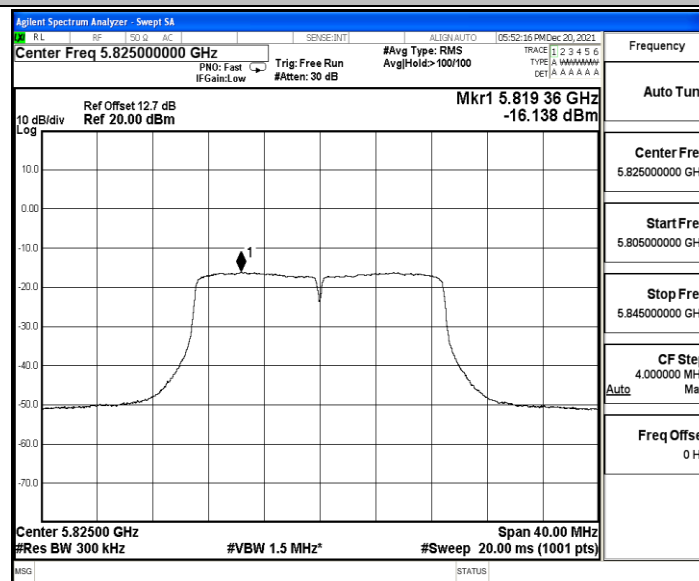


11AC20SISO_Ant1_5785

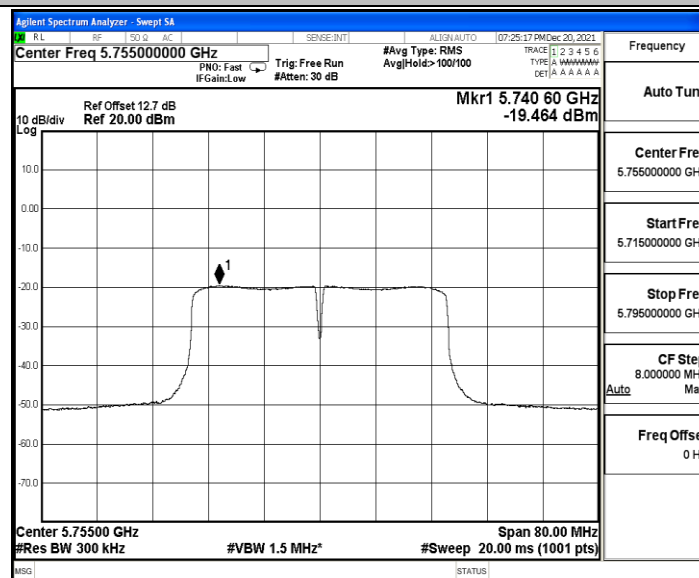




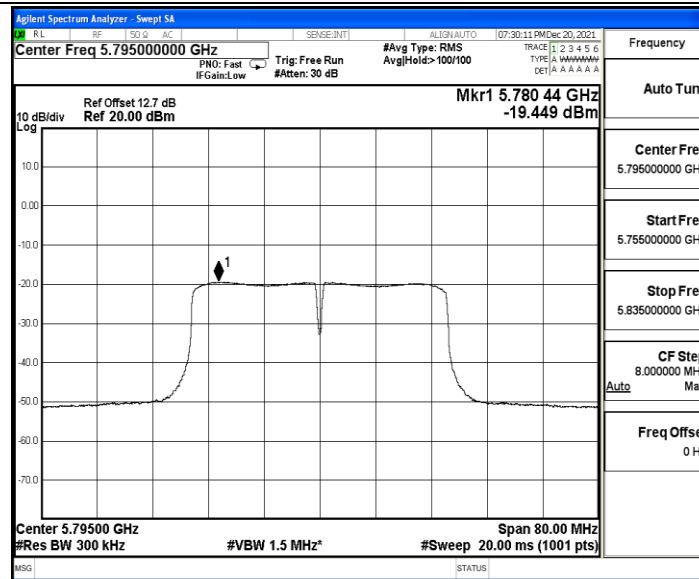
11AC20SISO_Ant1_5825



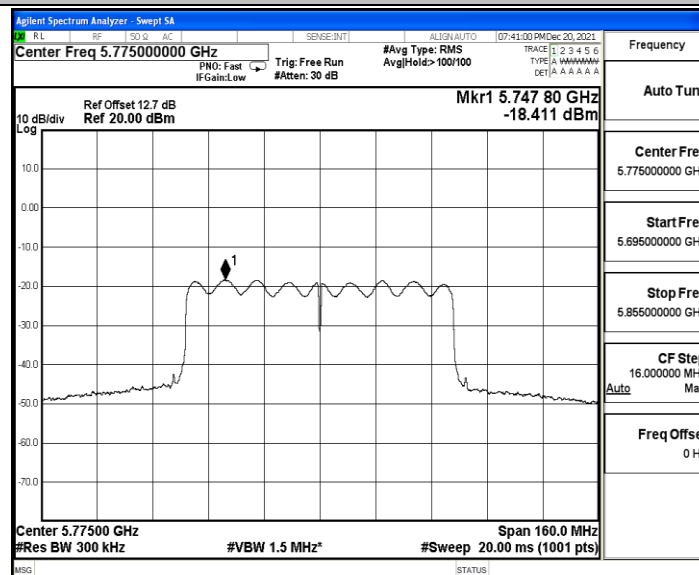
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





A.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	-47.954	≤-27.00	---	---	PASS
				Peak	5700.000	-47.12	≤10.00	---	---	PASS
				Peak	5720.000	-47.06	≤15.60	---	---	PASS
				Peak	5725.000	-39.23	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-46.169	≤15.60	---	---	PASS
				Peak	5855.000	-47.97	≤27.00	---	---	PASS
				Peak	5875.000	-46.91	≤15.60	---	---	PASS
				Peak	5925.000	-45.8	≤10.00	---	---	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-47.777	≤-27.00	---	---	PASS
				Peak	5700.000	-47.85	≤10.00	---	---	PASS
				Peak	5720.000	-43.51	≤15.60	---	---	PASS
				Peak	5725.000	-32.38	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-46.395	≤15.60	---	---	PASS
				Peak	5855.000	-47.57	≤27.00	---	---	PASS
				Peak	5875.000	-46.61	≤15.60	---	---	PASS
				Peak	5925.000	-47.94	≤10.00	---	---	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-47.468	≤-27.00	---	---	PASS
				Peak	5700.000	-47.39	≤10.00	---	---	PASS
				Peak	5720.000	-38.28	≤15.60	---	---	PASS
				Peak	5725.000	-35.36	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-46.581	≤15.60	---	---	PASS
				Peak	5855.000	-45.98	≤27.00	---	---	PASS
				Peak	5875.000	-46.93	≤15.60	---	---	PASS
				Peak	5925.000	-47.3	≤10.00	---	---	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-47.161	≤-27.00	---	---	PASS
				Peak	5700.000	-47.03	≤10.00	---	---	PASS
				Peak	5720.000	-44.47	≤15.60	---	---	PASS
				Peak	5725.000	-33.26	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-46.304	≤15.60	---	---	PASS
				Peak	5855.000	-46.78	≤27.00	---	---	PASS
				Peak	5875.000	-47.4	≤15.60	---	---	PASS
				Peak	5925.000	-47.51	≤10.00	---	---	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-47.351	≤-27.00	---	---	PASS
				Peak	5700.000	-46.98	≤10.00	---	---	PASS
				Peak	5720.000	-40.79	≤15.60	---	---	PASS
				Peak	5725.000	-37.95	≤27.00	---	---	PASS



11AC80SIS O	Ant1	High	5795	Peak	5850.000	-46.917	≤15.60	---	---	PASS
				Peak	5855.000	-46.21	≤27.00	---	---	PASS
				Peak	5875.000	-46.65	≤15.60	---	---	PASS
				Peak	5925.000	-46.63	≤10.00	- - -	- - -	PASS
		Low	5775	Peak	5650.000	-47.45	≤-27.00	---	---	PASS
				Peak	5700.000	-36.56	≤10.00	---	---	PASS
				Peak	5720.000	-33.37	≤15.60	---	---	PASS
				Peak	5725.000	-31.64	≤27.00	- - -	- - -	PASS
		High	5775	Peak	5850.000	-34.77	≤15.60	---	---	PASS
				Peak	5855.000	-36.59	≤27.00	---	---	PASS
				Peak	5875.000	-40.17	≤15.60	---	---	PASS
				Peak	5925.000	-47.28	≤10.00	- - -	- - -	PASS

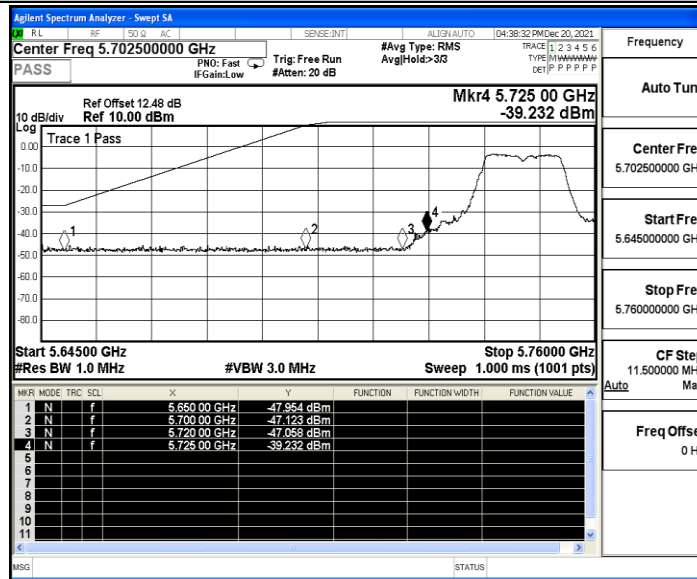
Note:

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.

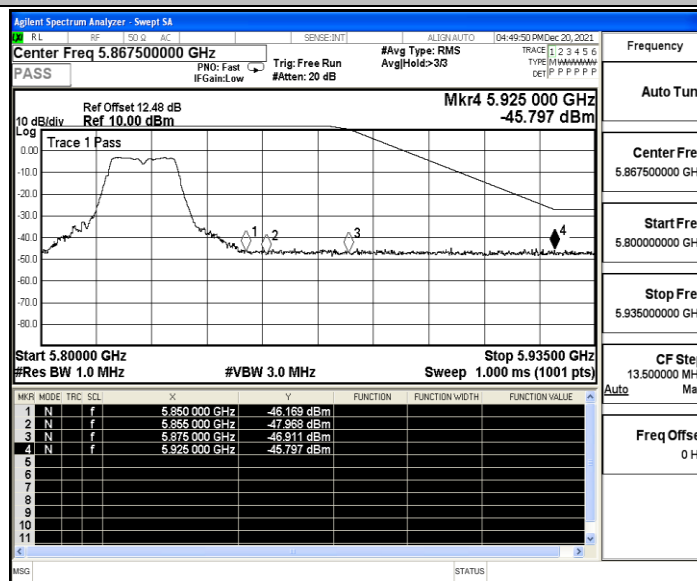


Test Graphs

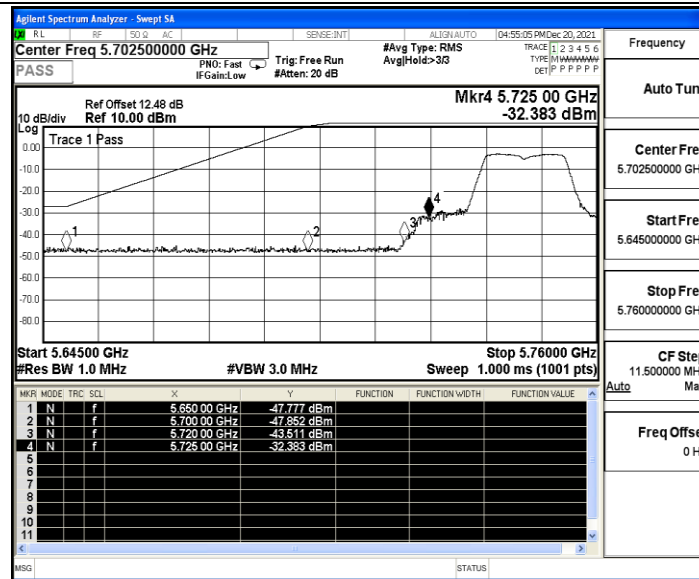
11A_Ant1_Low_5745_Peak



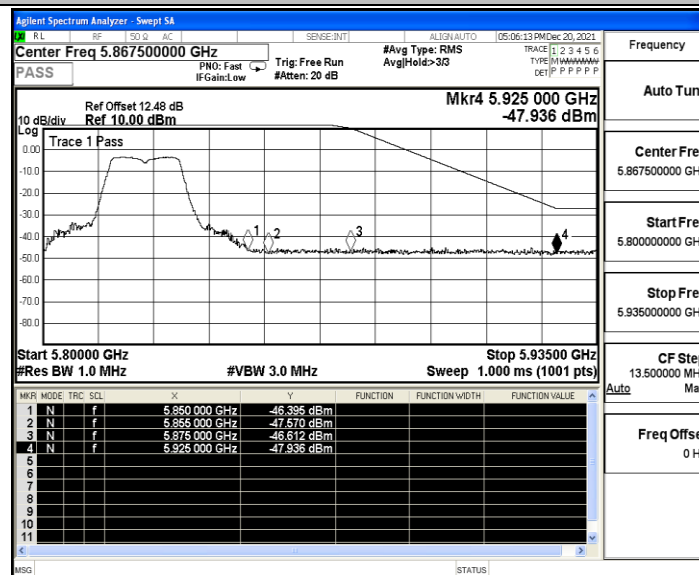
11A_Ant1_High_5825_Peak



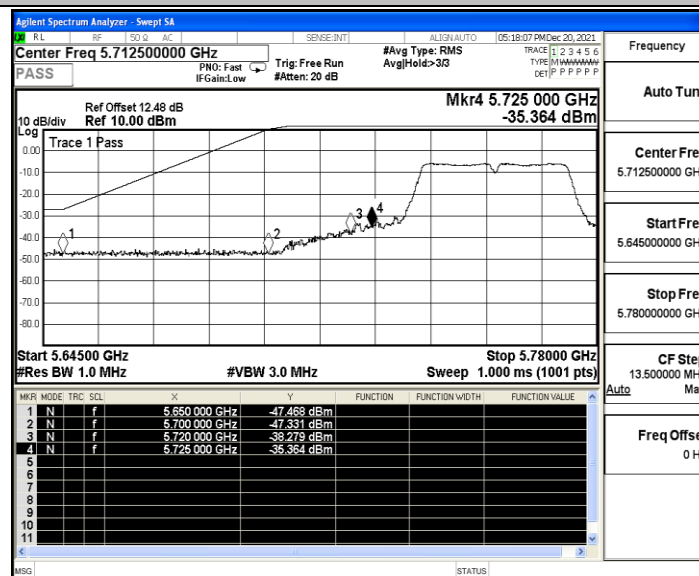
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak

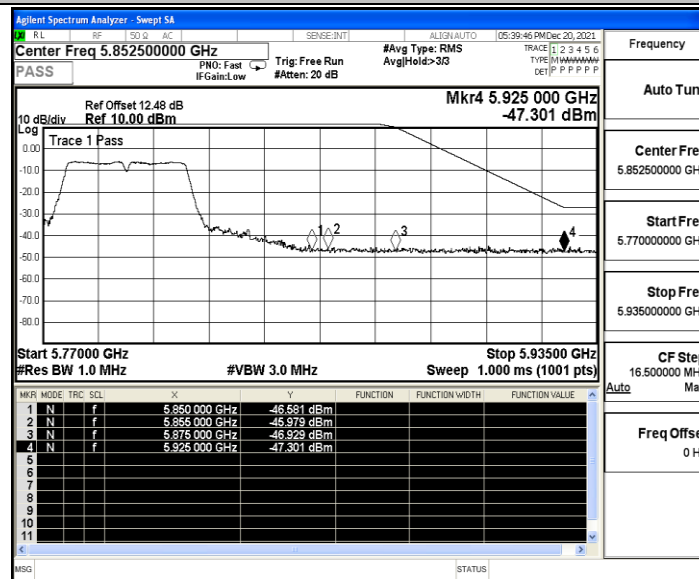


11N40SISO_Ant1_Low_5755_Peak

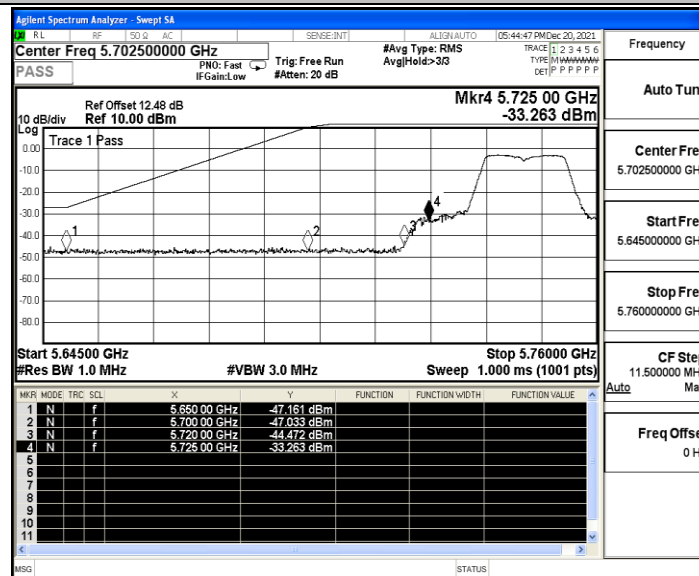




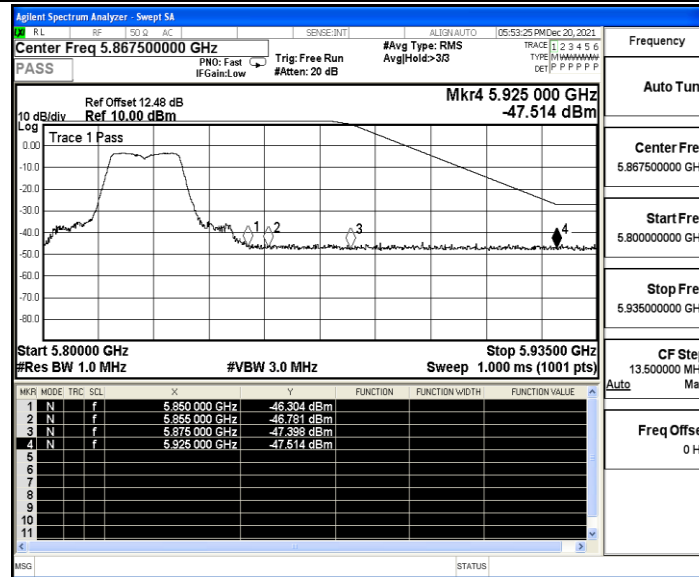
11N40SISO_Ant1_High_5795_Peak



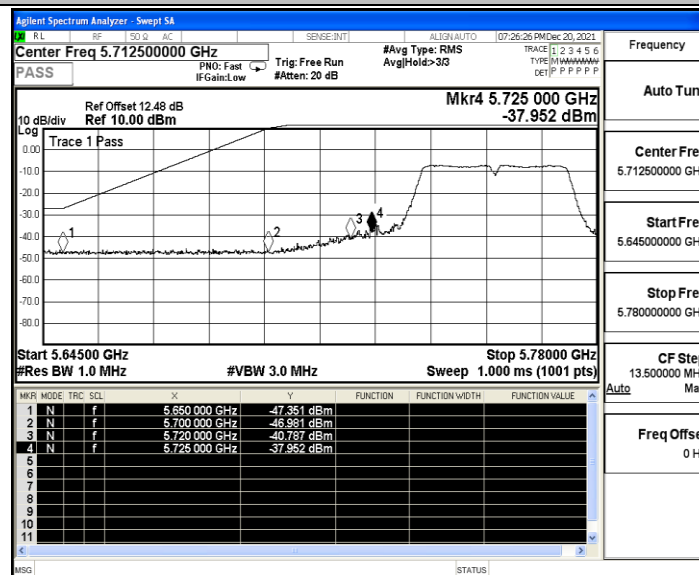
11AC20SISO_Ant1_Low_5745_Peak



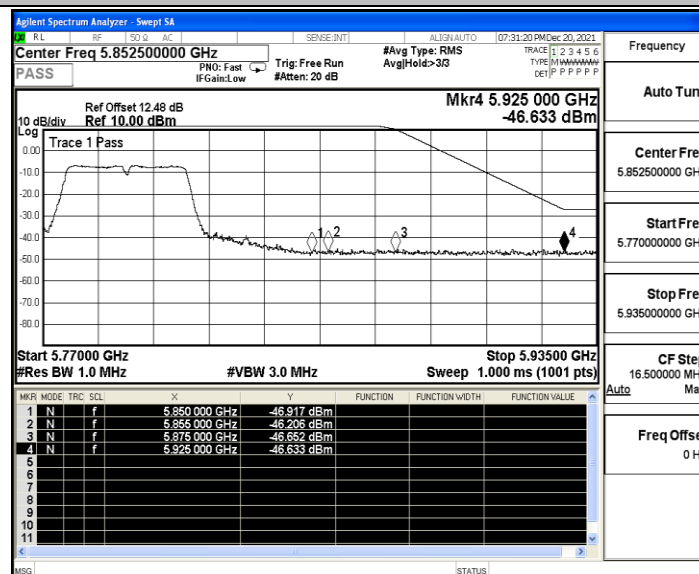
11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

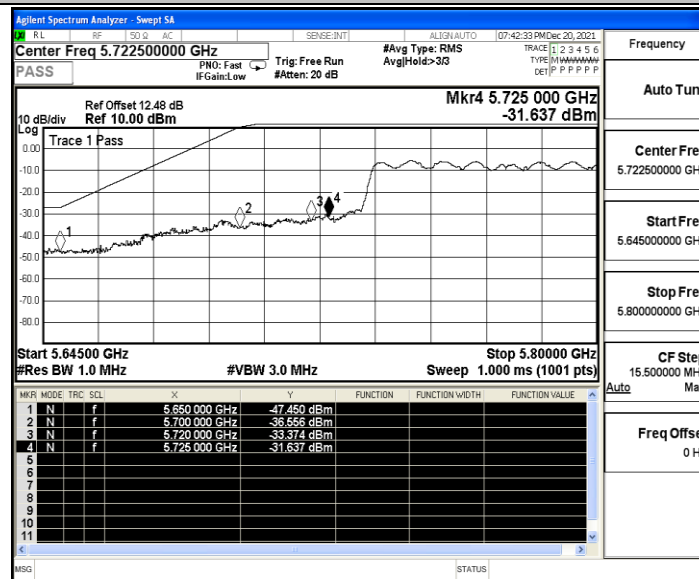


11AC40SISO_Ant1_High_5795_Peak

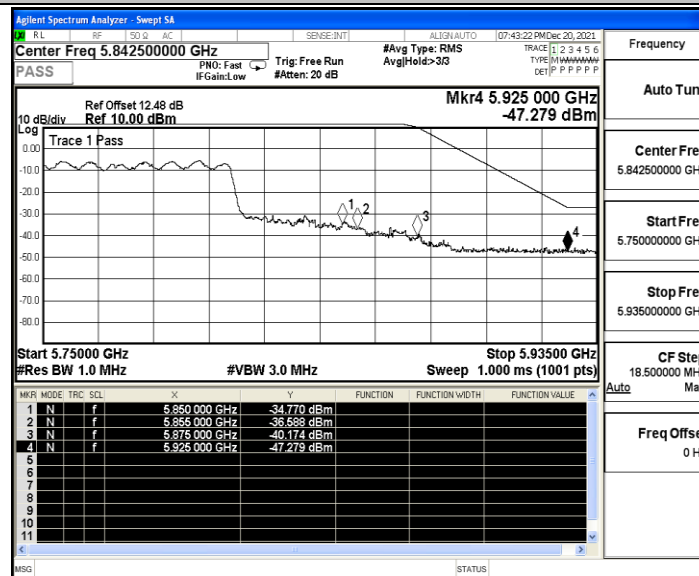




11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak





A.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SISO	Ant1	5785	NV	NT	-40000	-6.914434	20	PASS
			LV	NT	-40000	-6.914434	20	PASS
			HV	NT	-40000	-6.914434	20	PASS
11N40SISO	Ant1	5755	NV	NT	0	0	20	PASS
			LV	NT	-40000	-6.950478	20	PASS
			HV	NT	0	0	20	PASS
11AC20SISO	Ant1	5745	NV	NT	-20000	-3.481288	20	PASS
			LV	NT	-20000	-3.481288	20	PASS
			HV	NT	-20000	-3.481288	20	PASS
		5785	NV	NT	-20000	-3.457217	20	PASS
			LV	NT	-20000	-3.457217	20	PASS
			HV	NT	-20000	-3.457217	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SISO	Ant1	5785	NV	-30	-40000	-6.914434	20	PASS
			NV	-20	-40000	-6.914434	20	PASS
			NV	-10	-40000	-6.914434	20	PASS
			NV	0	-40000	-6.914434	20	PASS
			NV	10	-40000	-6.914434	20	PASS
			NV	20	-40000	-6.914434	20	PASS
			NV	30	-40000	-6.914434	20	PASS
11N40SISO	Ant1	5755	NV	-30	-40000	-6.950478	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	-40000	-6.950478	20	PASS
			NV	50	0	0	20	PASS
11AC20SISO	Ant1	5745	NV	-30	-20000	-3.481288	20	PASS
			NV	-20	-20000	-3.481288	20	PASS
			NV	-10	-20000	-3.481288	20	PASS
			NV	0	-20000	-3.481288	20	PASS



			NV	10	-20000	-3.481288	20	PASS
			NV	20	-20000	-3.481288	20	PASS
			NV	30	-20000	-3.481288	20	PASS
			NV	40	-20000	-3.481288	20	PASS
		5785	NV	-30	-20000	-3.457217	20	PASS
			NV	-20	-20000	-3.457217	20	PASS
			NV	-10	-20000	-3.457217	20	PASS
			NV	0	-20000	-3.457217	20	PASS



A.6 Duty Cycle

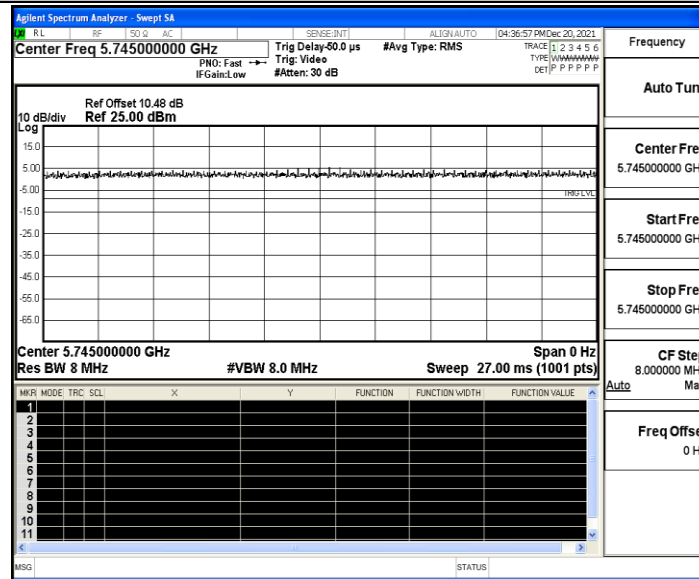
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5745	27.00	27.00	100.00	---	---
		5785	27.00	27.00	100.00	---	---
		5825	27.00	27.00	100.00	---	---
11N20SISO	Ant1	5745	27.00	27.00	100.00	---	---
		5785	27.00	27.00	100.00	---	---
		5825	27.00	27.00	100.00	---	---
11N40SISO	Ant1	5755	27.00	27.00	100.00	---	---
		5795	27.00	27.00	100.00	---	---
11AC20SISO	Ant1	5745	27.00	27.00	100.00	---	---
		5785	27.00	27.00	100.00	---	---
		5825	27.00	27.00	100.00	---	---
11AC40SISO	Ant1	5755	27.00	27.00	100.00	---	---
		5795	27.00	27.00	100.00	---	---
11AC80SISO	Ant1	5775	27.00	27.00	100.00	---	---

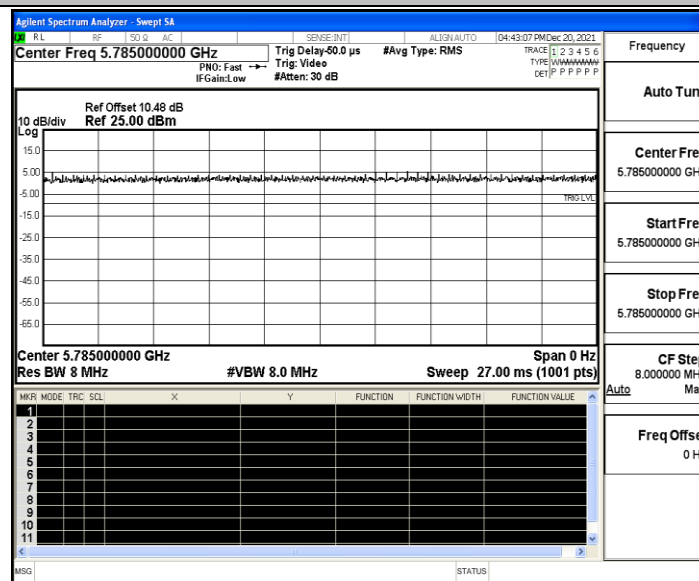


Test Graphs

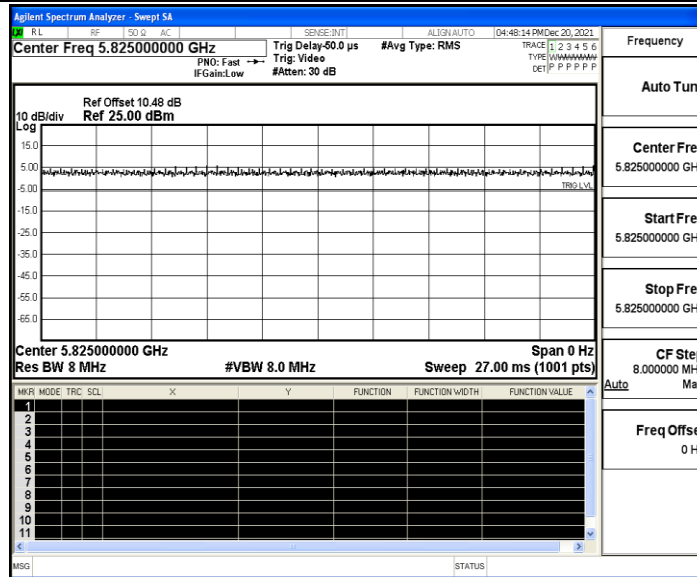
11A_Ant1_5745



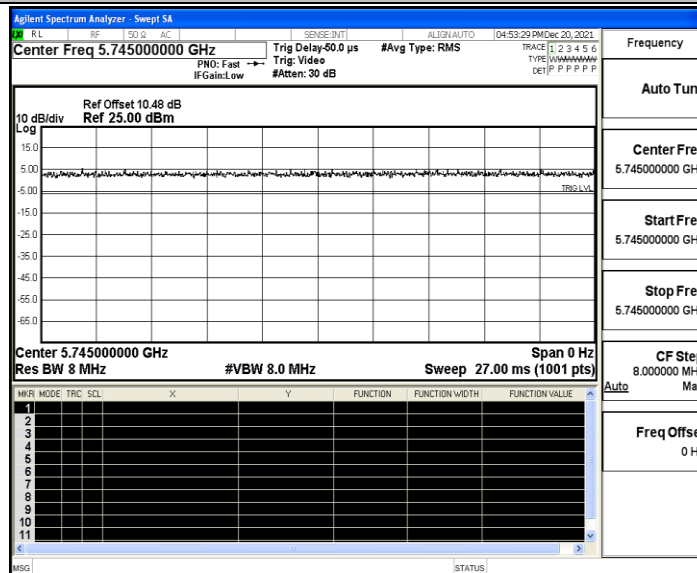
11A_Ant1_5785



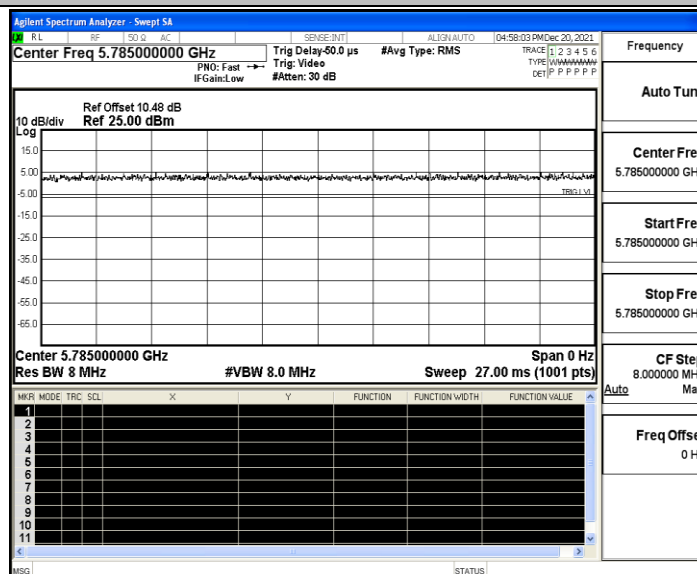
11A_Ant1_5825



11N20SISO_Ant1_5745

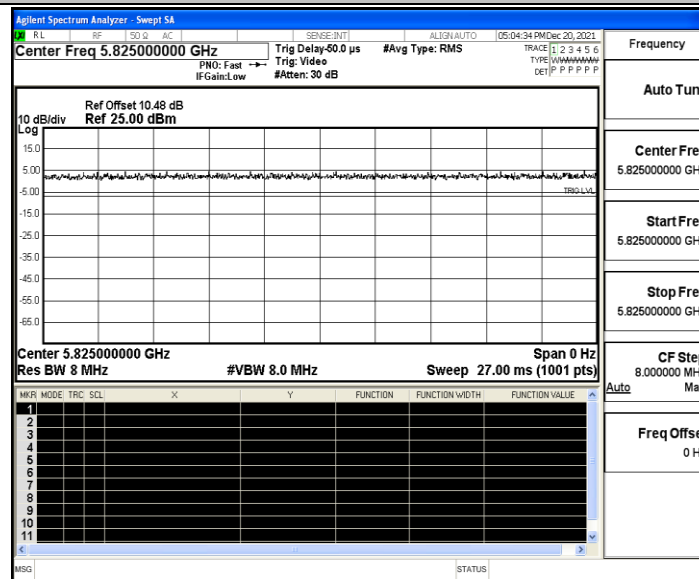


11N20SISO_Ant1_5785

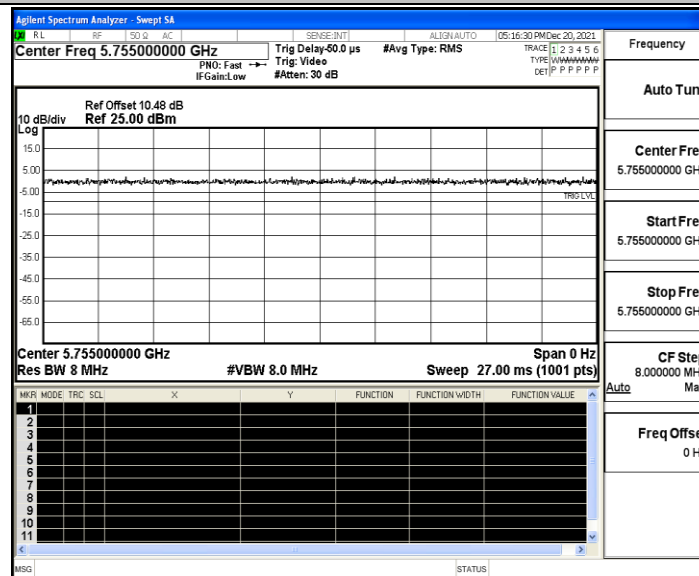




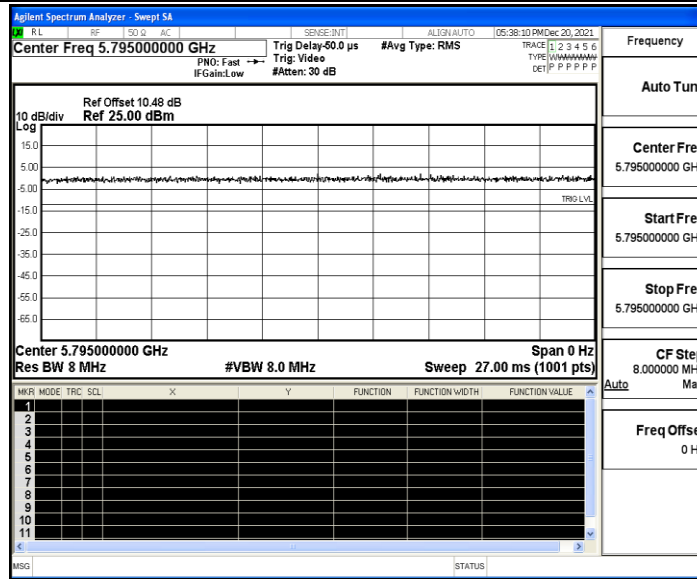
11N20SISO_Ant1_5825



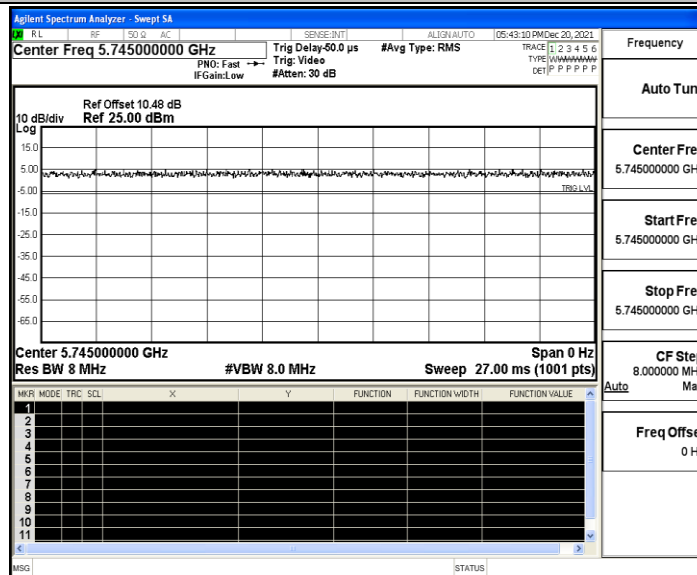
11N40SISO_Ant1_5755



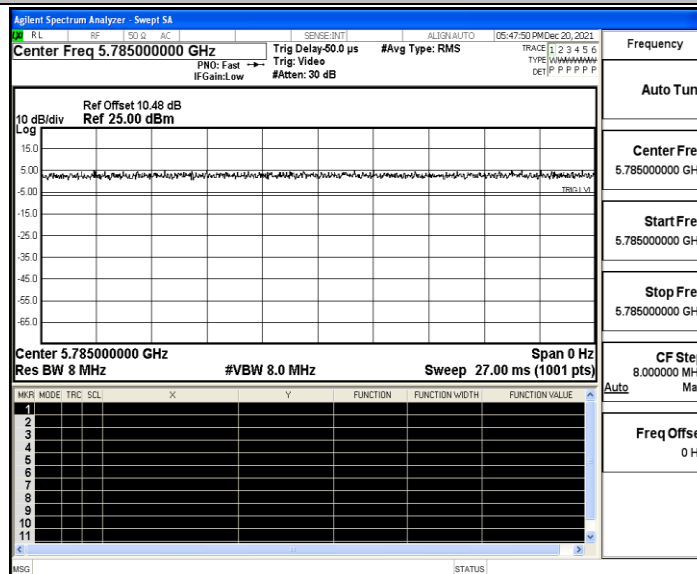
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

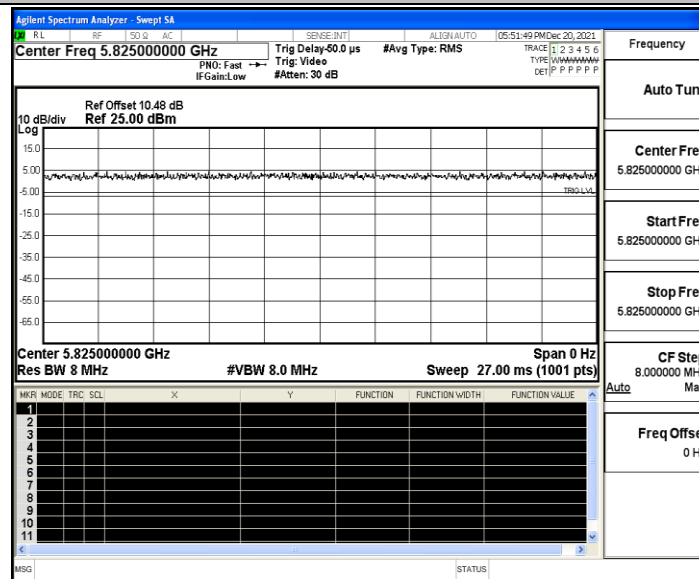


11AC20SISO_Ant1_5785

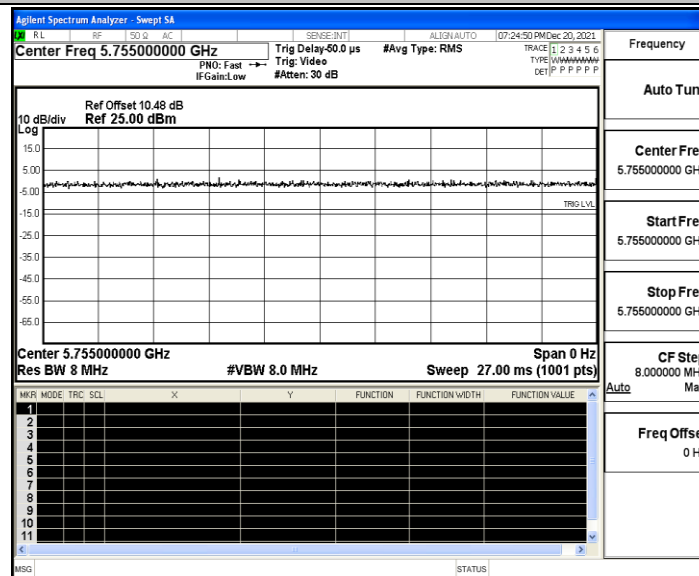




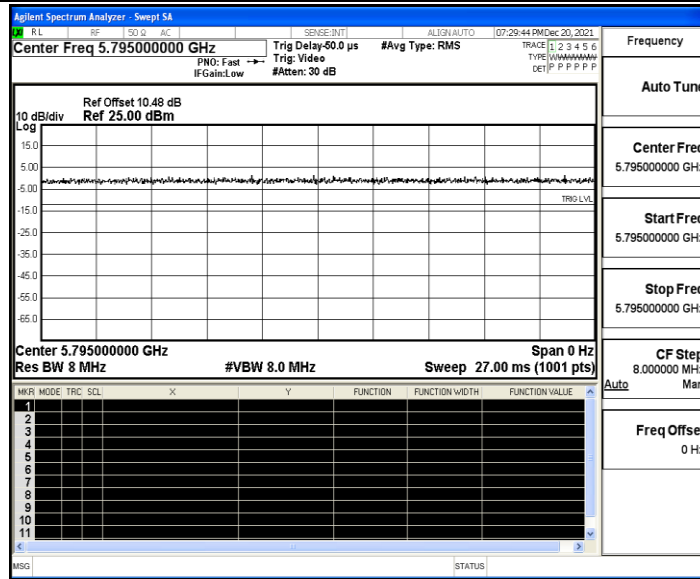
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

