



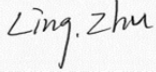

Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Remote control

Test Model: RM-RX1

Environmental Conditions

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



E.1 Min emission bandwidth

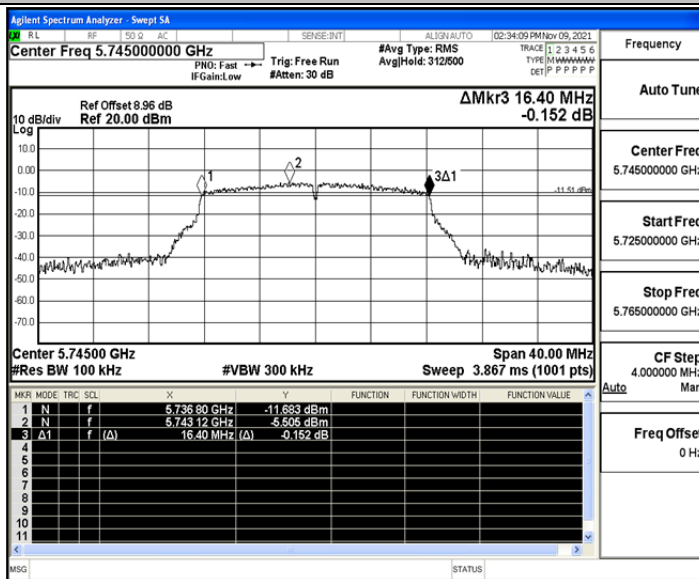
Test Result

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	16.480	5776.720	5793.200	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.240	5776.200	5793.440	0.5	PASS
		5825	17.680	5816.160	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.240	5776.760	5813.000	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	36.240	5737.000	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant1	5775	76.480	5736.760	5813.240	0.5	PASS

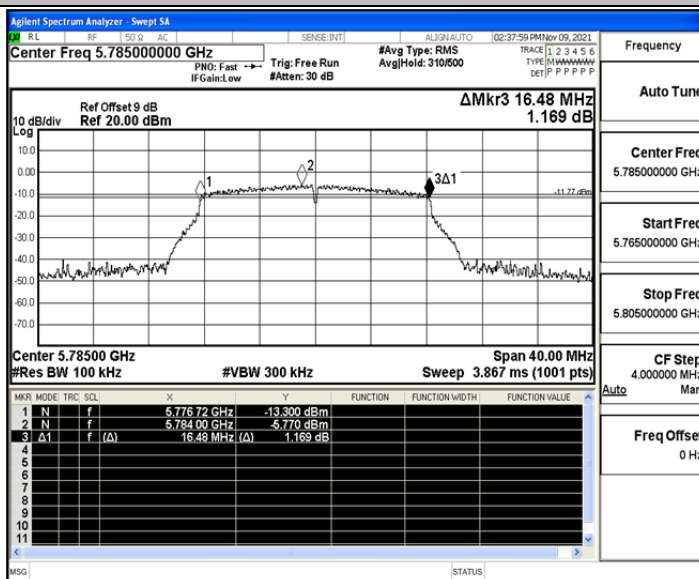


Test Graphs

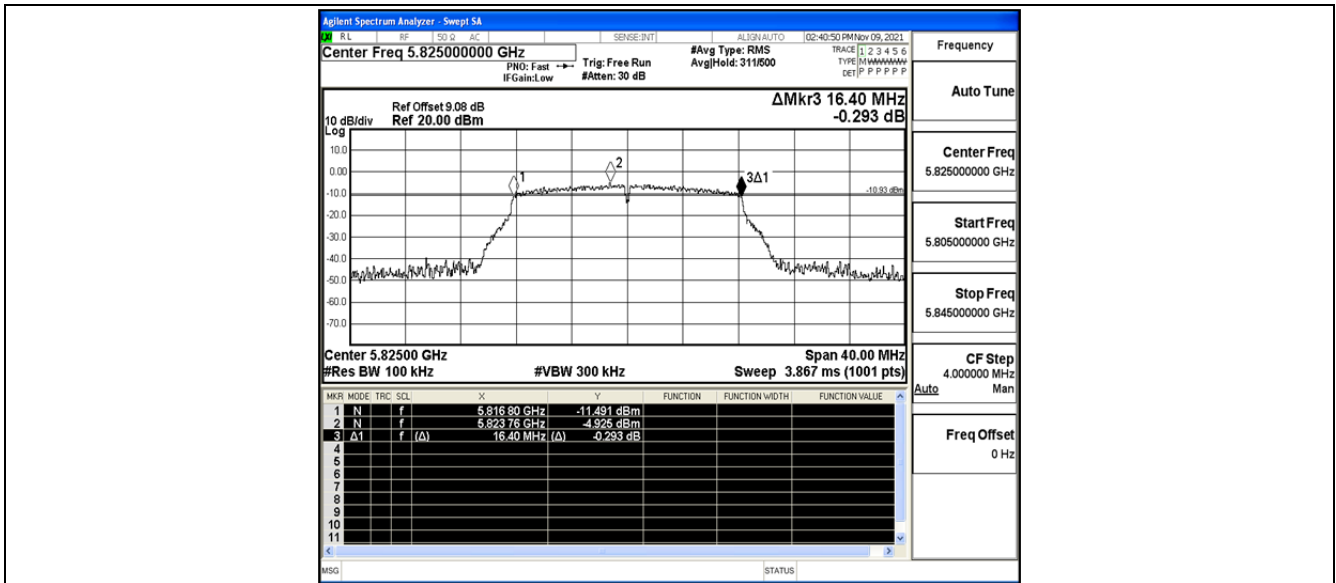
11A_Ant1_5745



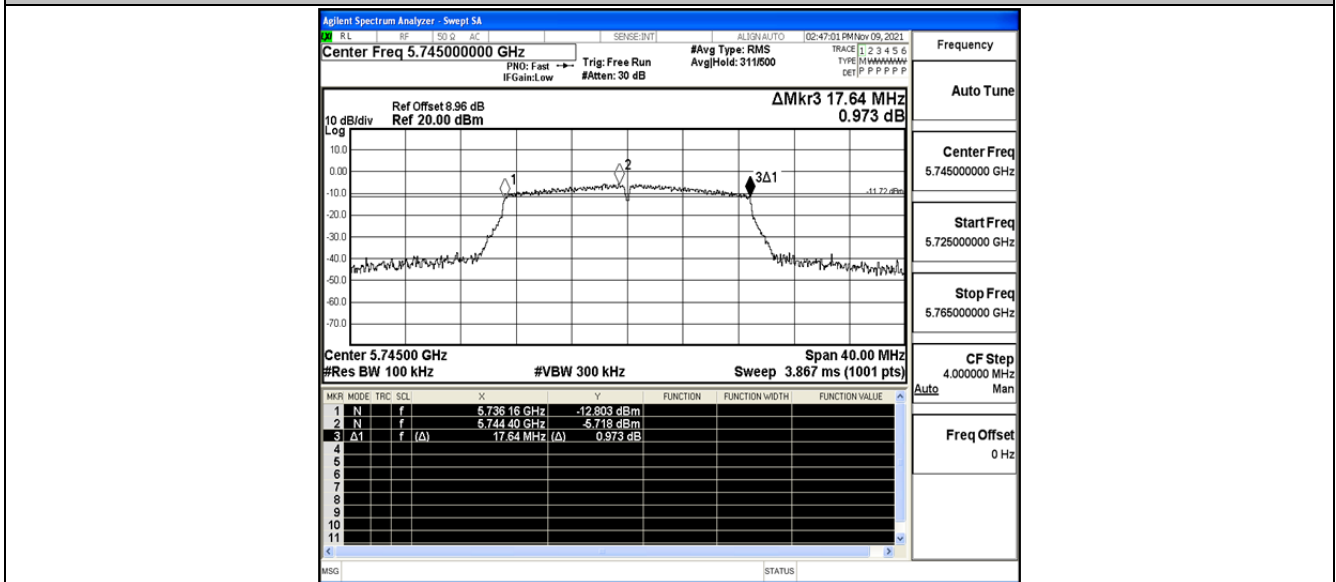
11A_Ant1_5785



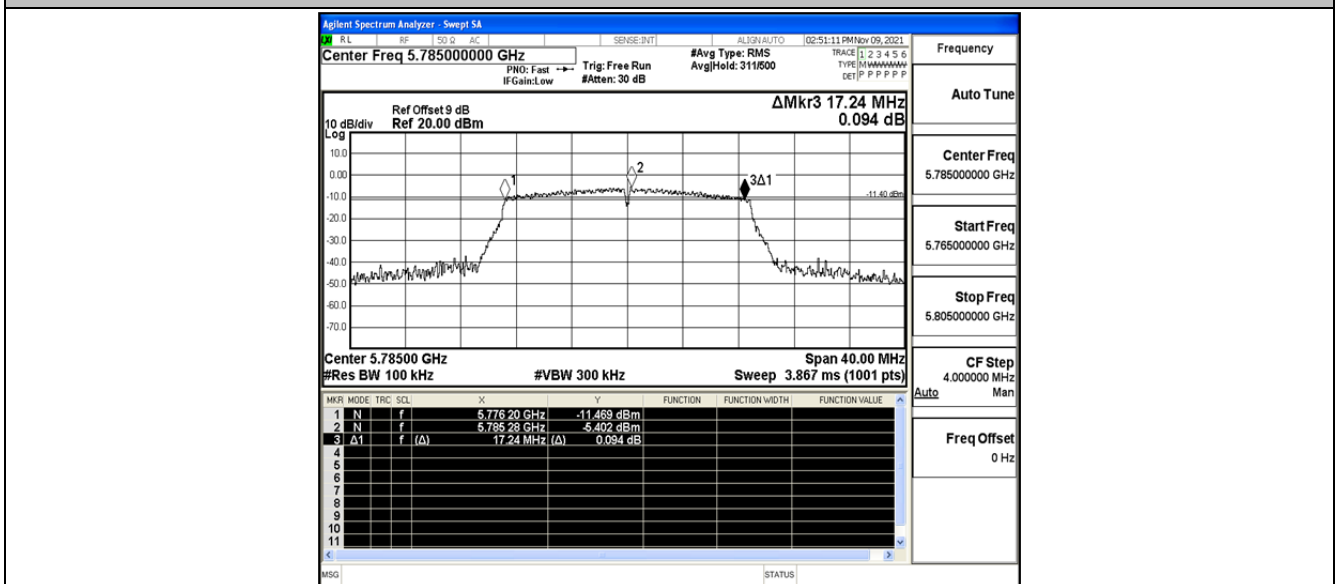
11A_Ant1_5825



11N20SISO_Ant1_5745

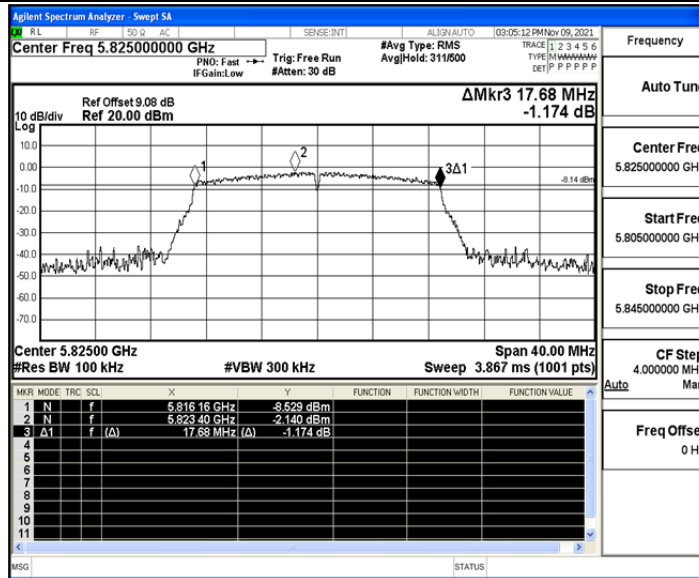


11N20SISO_Ant1_5785

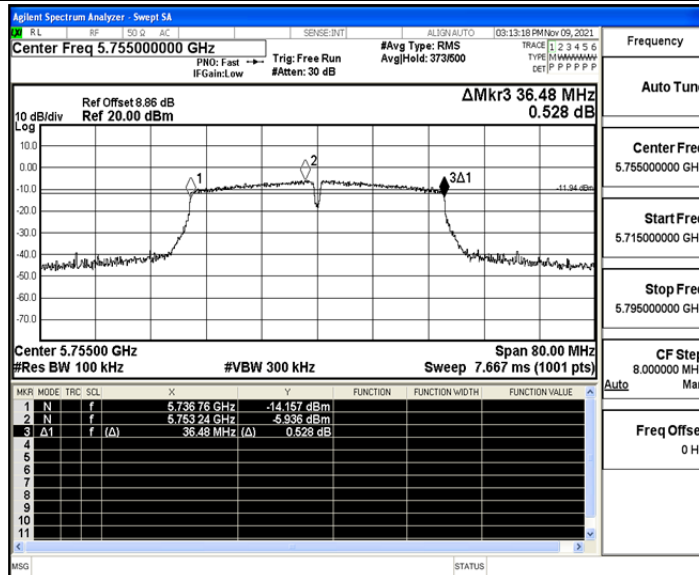




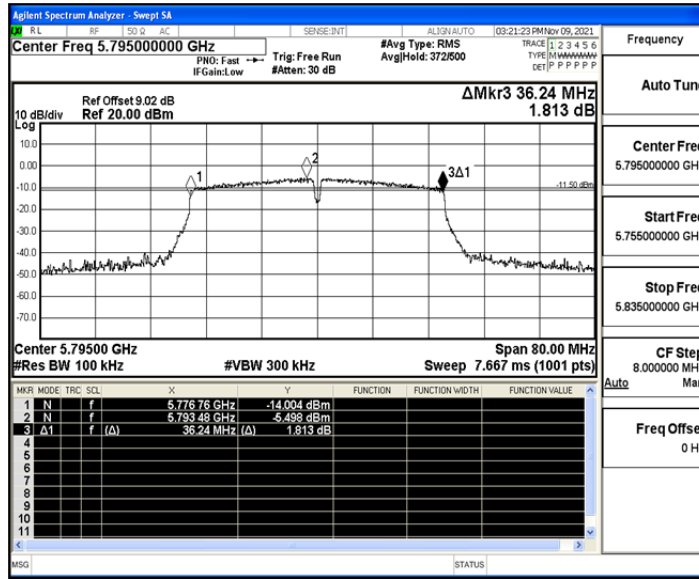
11N20SISO_Ant1_5825



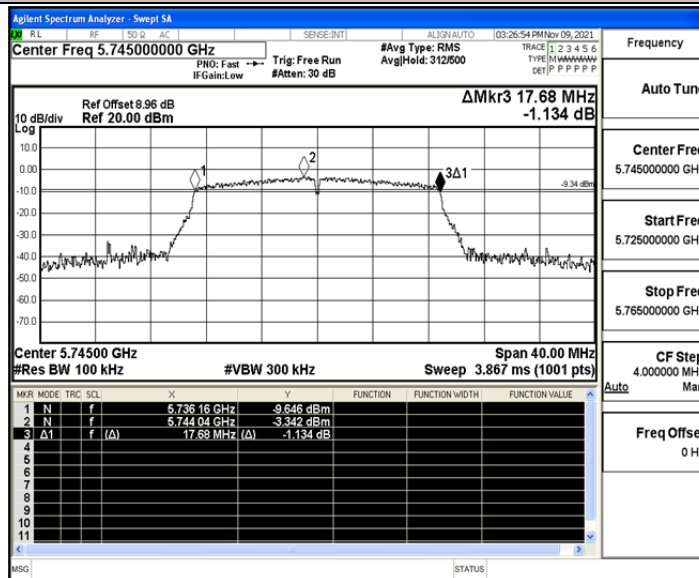
11N40SISO_Ant1_5755



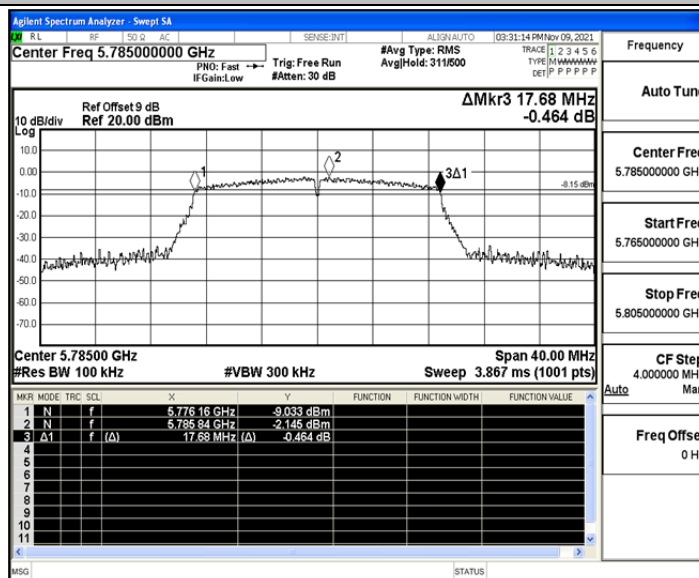
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

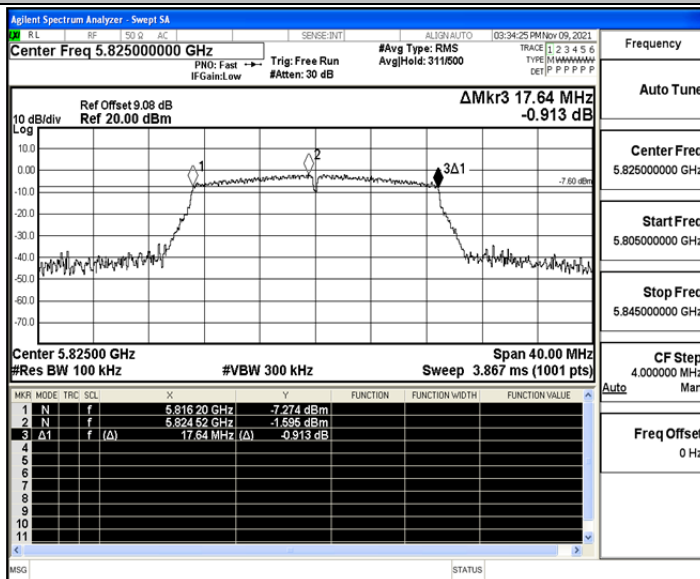


11AC20SISO_Ant1_5785

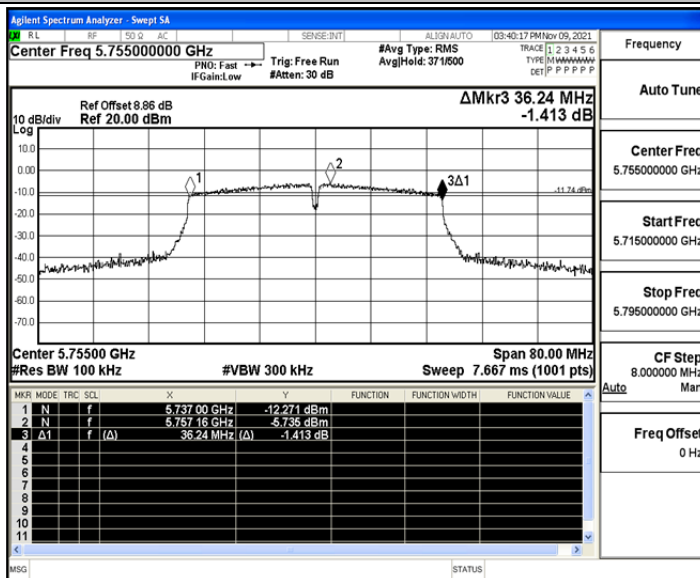




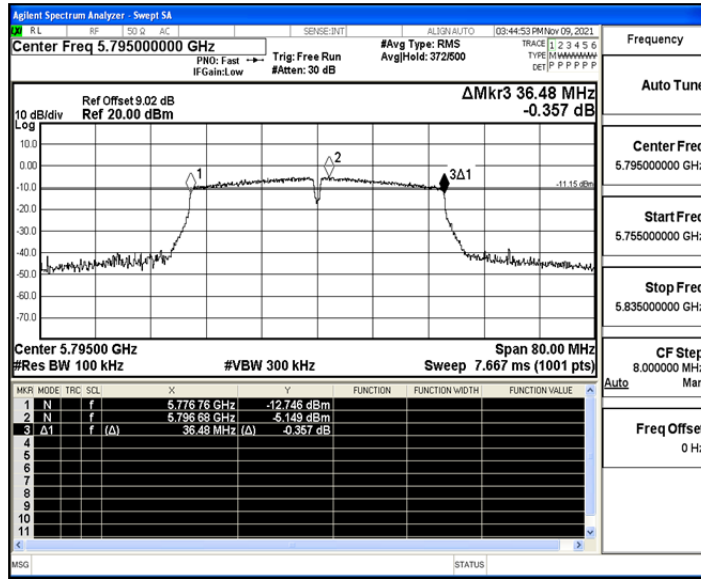
11AC20SISO_Ant1_5825



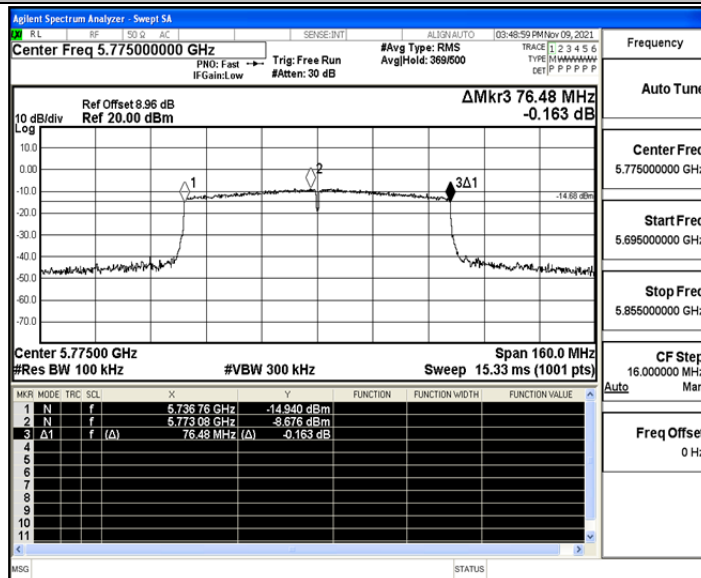
11AC40SISO_Ant1_5755



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	6.99	≤30	PASS
		5785	6.85	≤30	PASS
		5825	7.12	≤30	PASS
11N20SISO	Ant1	5745	6.94	≤30	PASS
		5785	7.02	≤30	PASS
		5825	11.45	≤30	PASS
11N40SISO	Ant1	5755	10.18	≤30	PASS
		5795	10.71	≤30	PASS
11AC20SISO	Ant1	5745	9.97	≤30	PASS
		5785	11.02	≤30	PASS
		5825	11.63	≤30	PASS
11AC40SISO	Ant1	5755	10.13	≤30	PASS
		5795	11.19	≤30	PASS
11AC80SISO	Ant1	5775	10.60	≤30	PASS

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



E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-5.99	≤30	PASS
		5785	-5.99	≤30	PASS
		5825	-5.92	≤30	PASS
11N20SISO	Ant1	5745	-6.28	≤30	PASS
		5785	-6.06	≤30	PASS
		5825	-1.93	≤30	PASS
11N40SISO	Ant1	5755	-5.69	≤30	PASS
		5795	-5.48	≤30	PASS
11AC20SISO	Ant1	5745	-2.97	≤30	PASS
		5785	-2.11	≤30	PASS
		5825	-1.57	≤30	PASS
11AC40SISO	Ant1	5755	-6.01	≤30	PASS
		5795	-4.9	≤30	PASS
11AC80SISO	Ant1	5775	-8.99	≤30	PASS

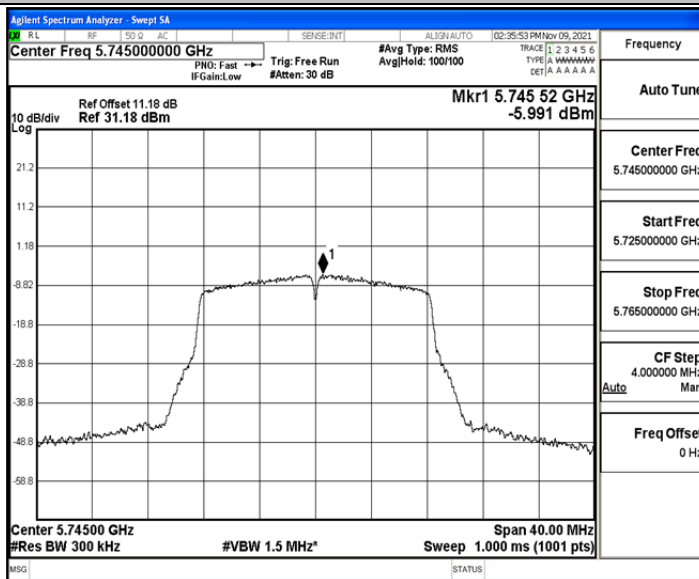
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

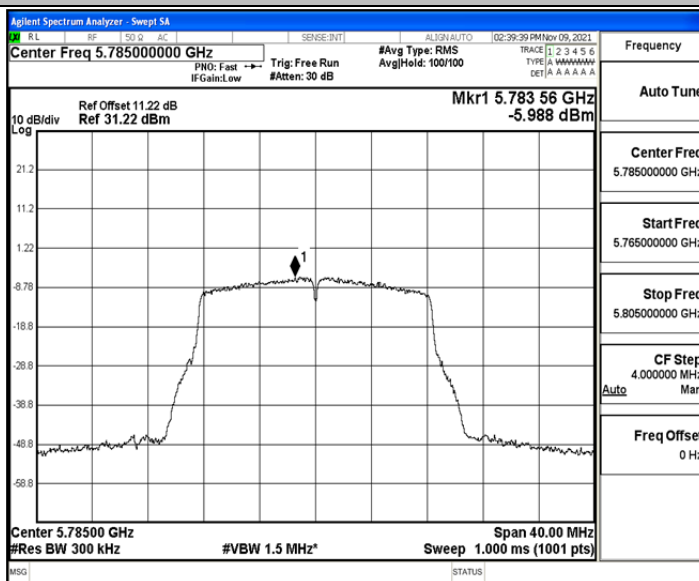


Test Graphs

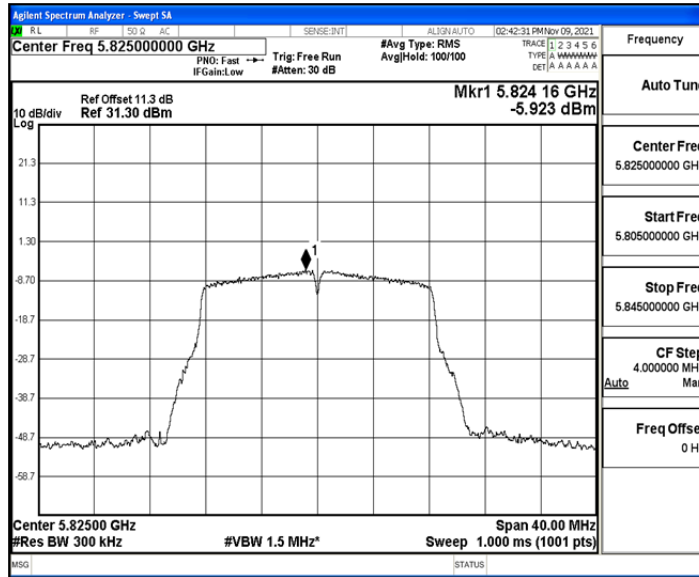
11A_Ant1_5745



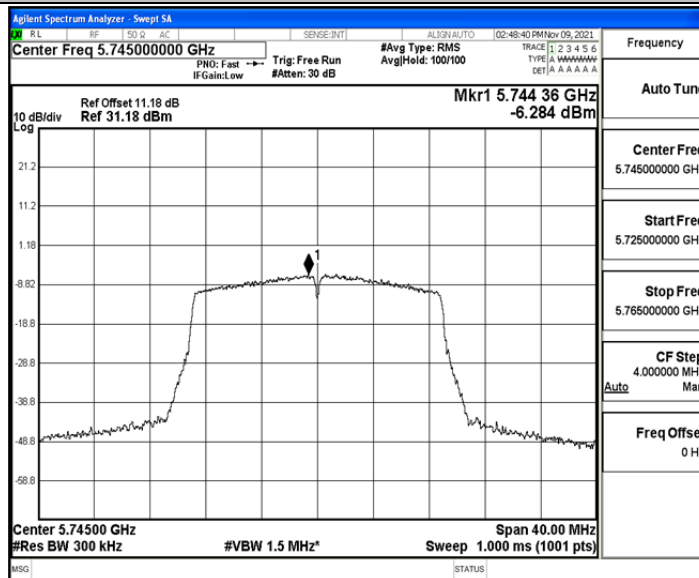
11A_Ant1_5785



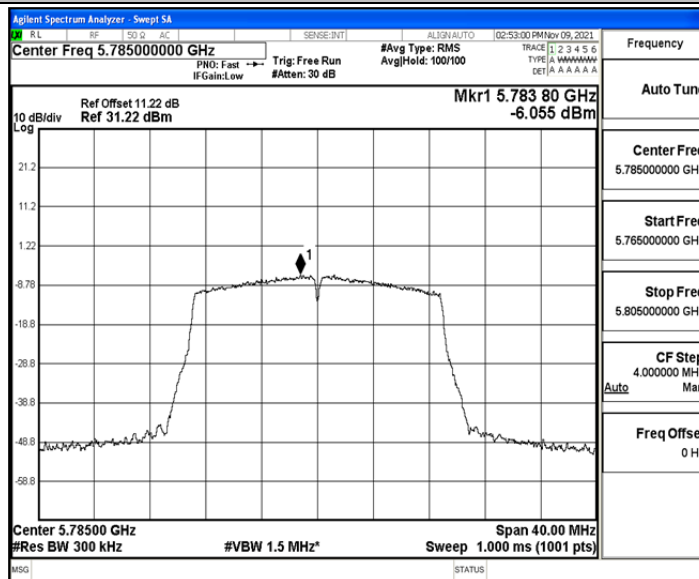
11A_Ant1_5825



11N20SISO_Ant1_5745

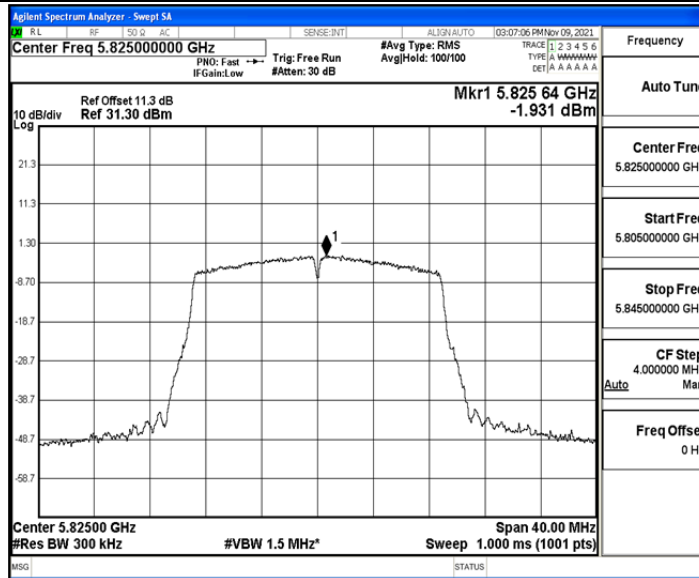


11N20SISO_Ant1_5785

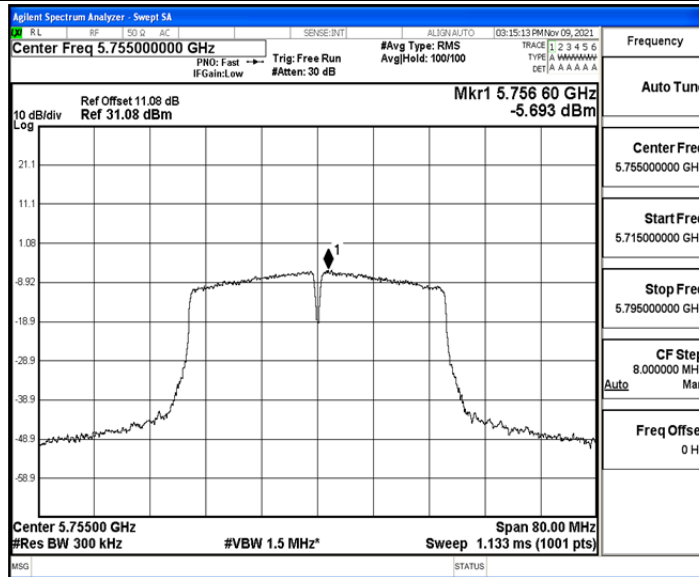




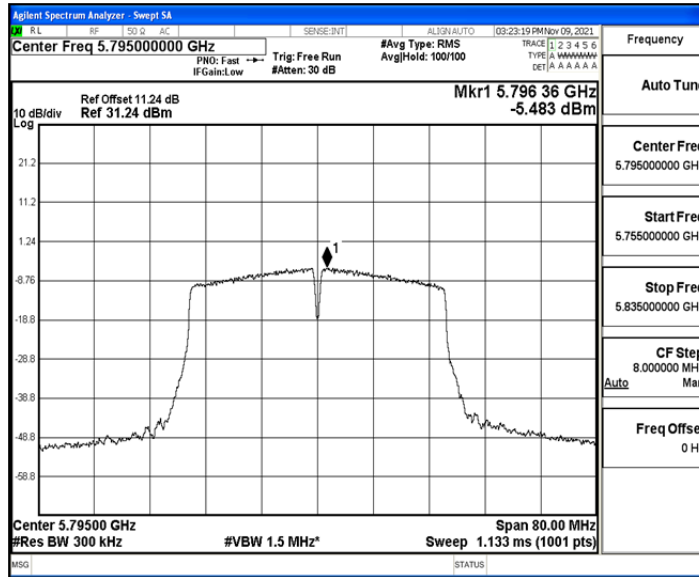
11N20SISO_Ant1_5825



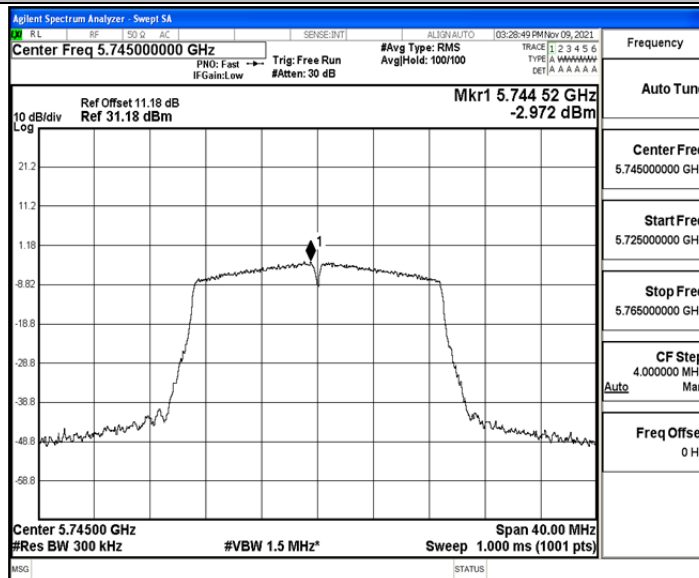
11N40SISO_Ant1_5755



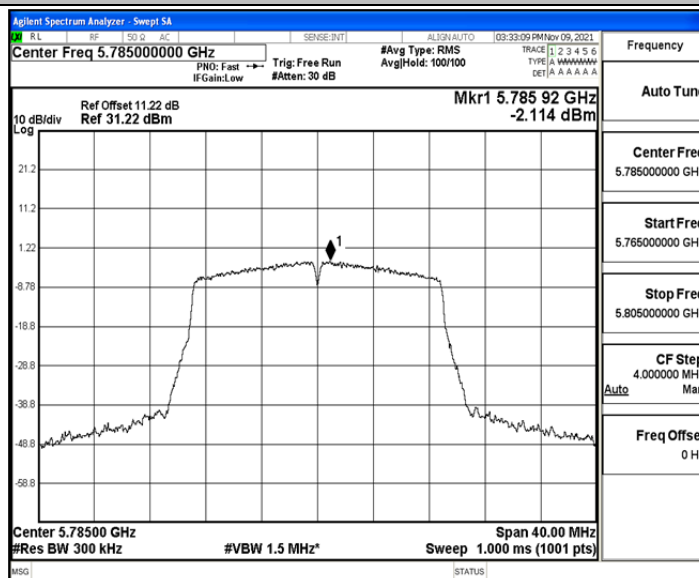
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

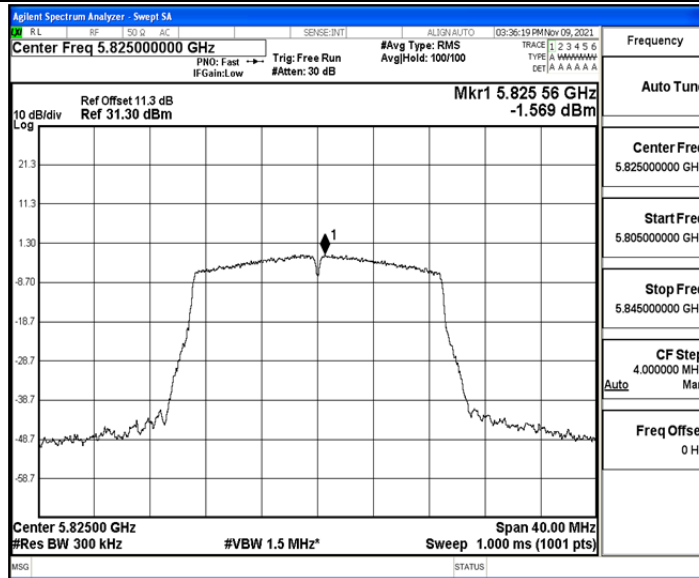


11AC20SISO_Ant1_5785

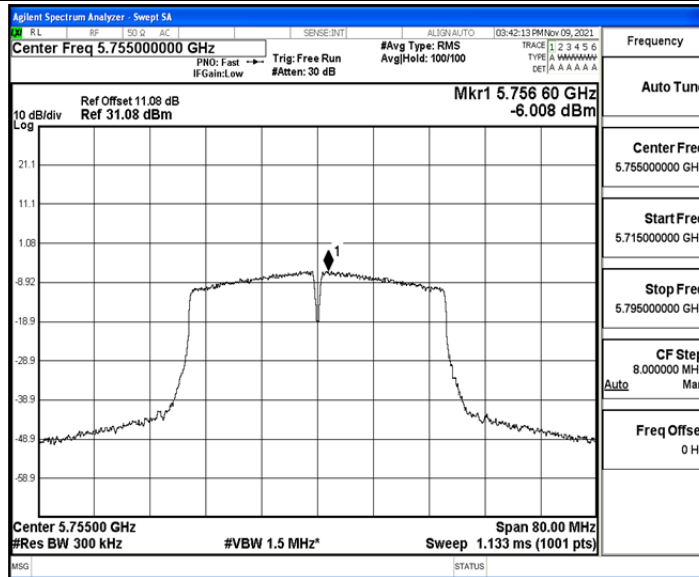




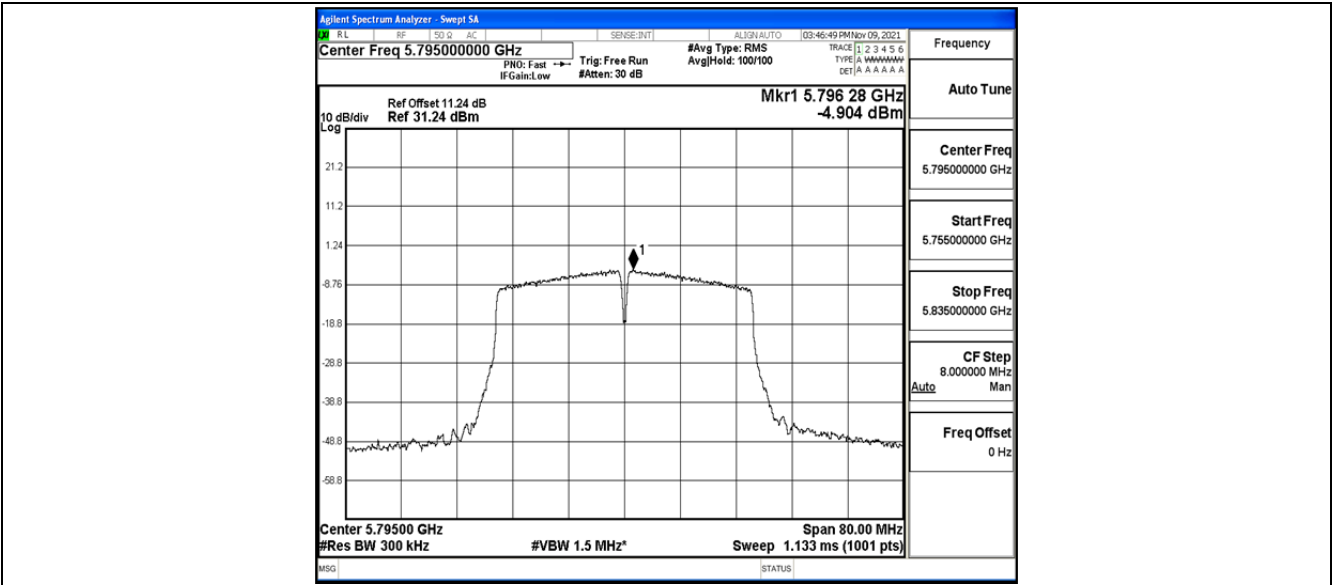
11AC20SISO_Ant1_5825



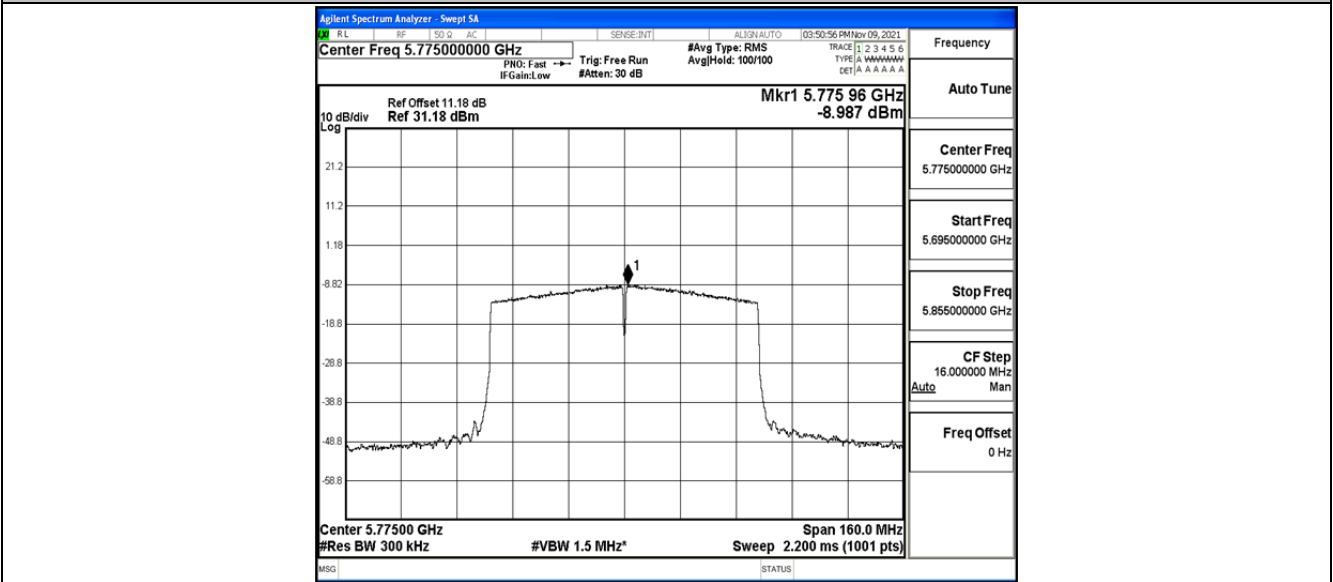
11AC40SISO_Ant1_5755



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	-39.954	≤-27.00	---	---	PASS
				Peak	5700.000	-40.74	≤10.00	---	---	PASS
				Peak	5720.000	-41.74	≤15.60	---	---	PASS
				Peak	5725.000	-39.08	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-42.123	≤15.60	---	---	PASS
				Peak	5855.000	-42.67	≤27.00	---	---	PASS
				Peak	5875.000	-41.11	≤15.60	---	---	PASS
				Peak	5925.000	-42.09	≤10.00	---	---	PASS
11N20SI SO	Ant1	Low	5745	Peak	5650.000	-39.28	≤-27.00	---	---	PASS
				Peak	5700.000	-43.74	≤10.00	---	---	PASS
				Peak	5720.000	-40	≤15.60	---	---	PASS
				Peak	5725.000	-43.4	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-40.027	≤15.60	---	---	PASS
				Peak	5855.000	-42.15	≤27.00	---	---	PASS
				Peak	5875.000	-43.01	≤15.60	---	---	PASS
				Peak	5925.000	-42.62	≤10.00	---	---	PASS
11N40SI SO	Ant1	Low	5755	Peak	5650.000	-43.787	≤-27.00	---	---	PASS
				Peak	5700.000	-39.83	≤10.00	---	---	PASS
				Peak	5720.000	-36.3	≤15.60	---	---	PASS
				Peak	5725.000	-28.87	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-41.148	≤15.60	---	---	PASS
				Peak	5855.000	-43	≤27.00	---	---	PASS
				Peak	5875.000	-41.6	≤15.60	---	---	PASS
				Peak	5925.000	-43.31	≤10.00	---	---	PASS
11AC20S ISO	Ant1	Low	5745	Peak	5650.000	-42.987	≤-27.00	---	---	PASS
				Peak	5700.000	-42.45	≤10.00	---	---	PASS
				Peak	5720.000	-39.01	≤15.60	---	---	PASS
				Peak	5725.000	-35.25	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-36.083	≤15.60	---	---	PASS
				Peak	5855.000	-40.17	≤27.00	---	---	PASS
				Peak	5875.000	-39.44	≤15.60	---	---	PASS
				Peak	5925.000	-41.9	≤10.00	---	---	PASS
11AC40S ISO	Ant1	Low	5755	Peak	5650.000	-41.169	≤-27.00	---	---	PASS
				Peak	5700.000	-40.06	≤10.00	---	---	PASS
				Peak	5720.000	-33.99	≤15.60	---	---	PASS
				Peak	5725.000	-36.25	≤27.00	---	---	PASS



		High	5795	Peak	5850.000	-40.385	≤15.60	---	---	PASS
				Peak	5855.000	-39.49	≤27.00	---	---	PASS
				Peak	5875.000	-41.26	≤15.60	---	---	PASS
				Peak	5925.000	-42.5	≤10.00	---	---	PASS
11AC80S ISO	Ant1	Low	5775	Peak	5650.000	-41.459	≤-27.00	---	---	PASS
				Peak	5700.000	-43	≤10.00	---	---	PASS
				Peak	5720.000	-42.96	≤15.60	---	---	PASS
				Peak	5725.000	-39.53	≤27.00	---	---	PASS
		High	5775	Peak	5850.000	-42.917	≤15.60	---	---	PASS
				Peak	5855.000	-40.59	≤27.00	---	---	PASS
				Peak	5875.000	-44.22	≤15.60	---	---	PASS
				Peak	5925.000	-41.98	≤10.00	---	---	PASS

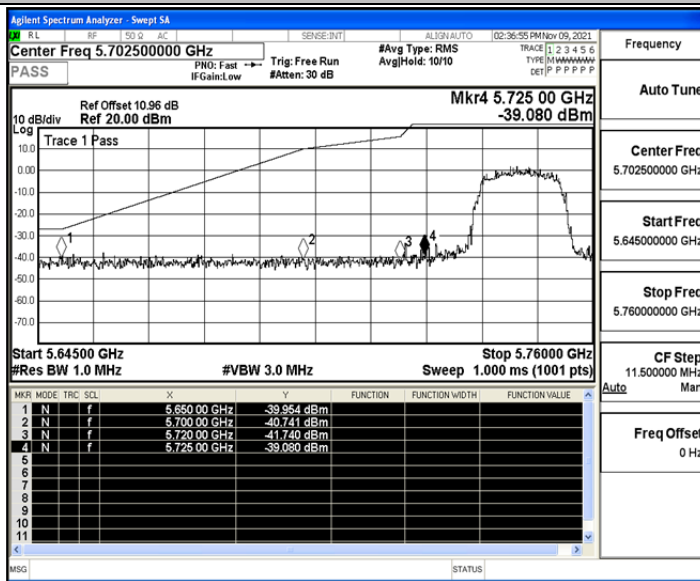
Note:

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.

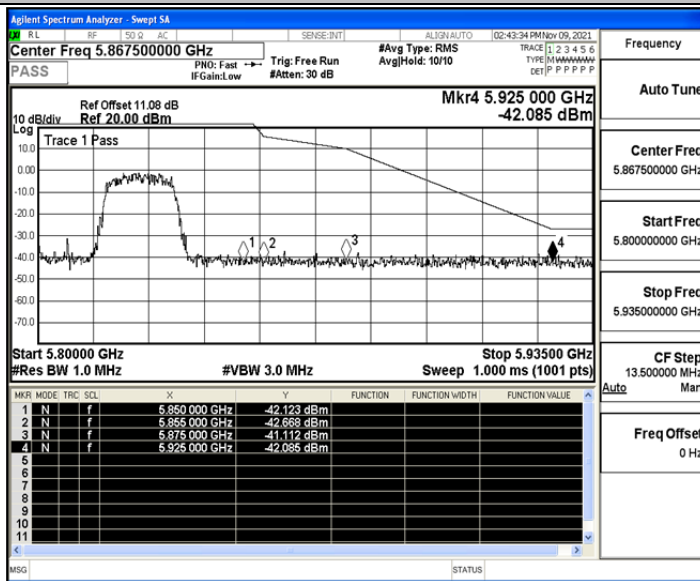


Test Graphs

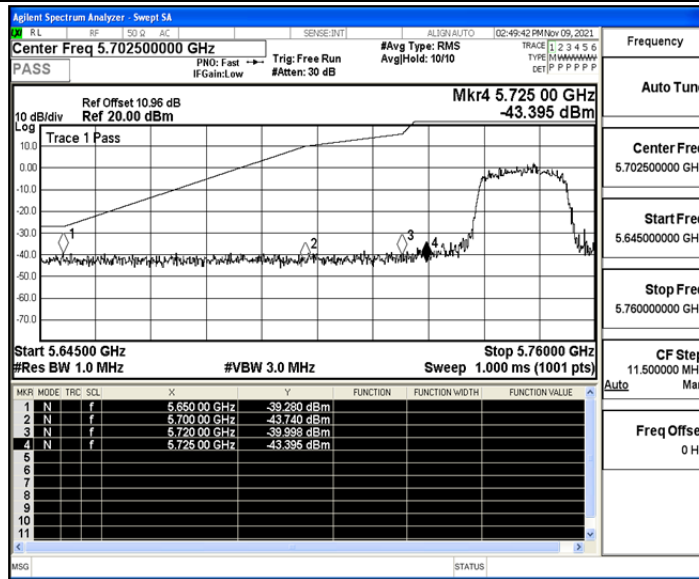
11A_Ant1_Low_5745_Peak



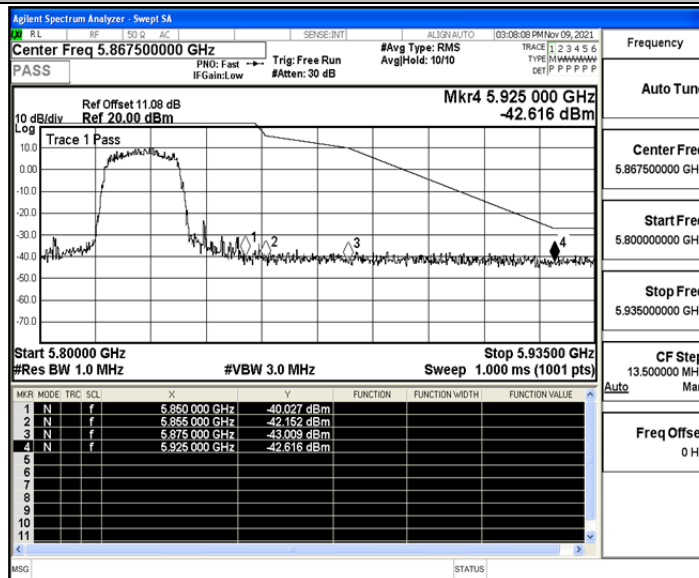
11A_Ant1_High_5825_Peak



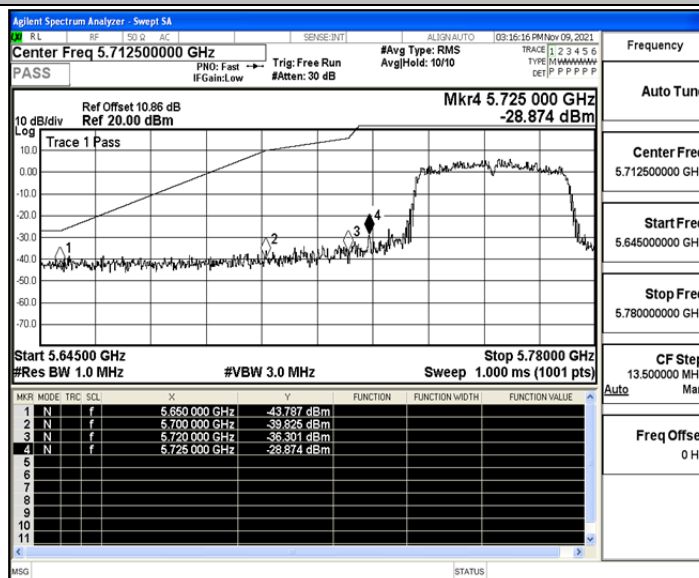
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak

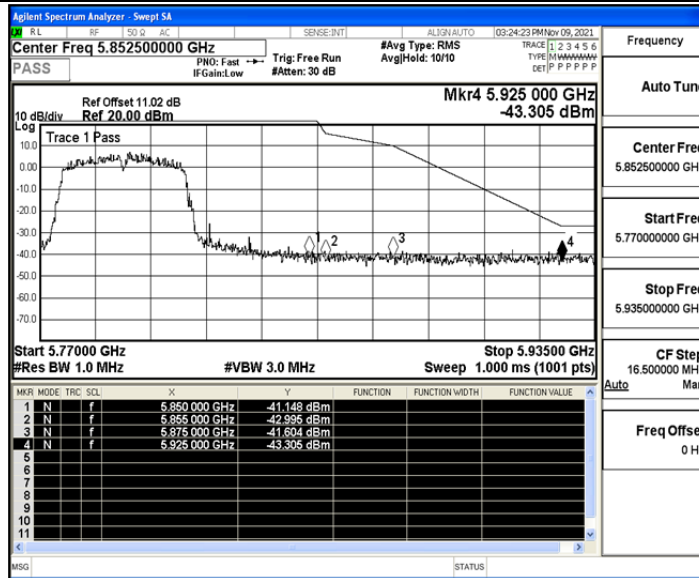


11N40SISO_Ant1_Low_5755_Peak

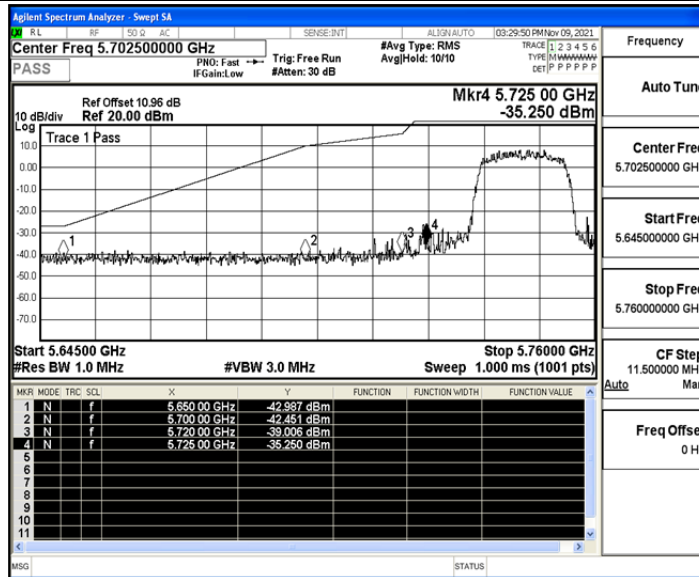




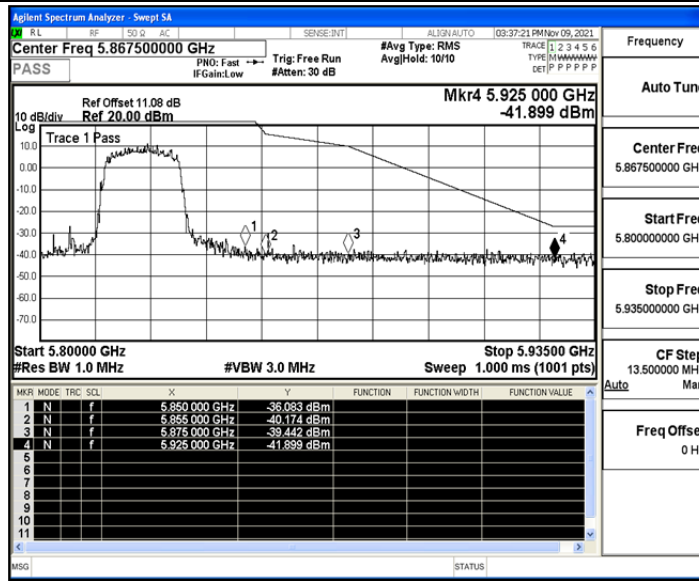
11N40SISO_Ant1_High_5795_Peak



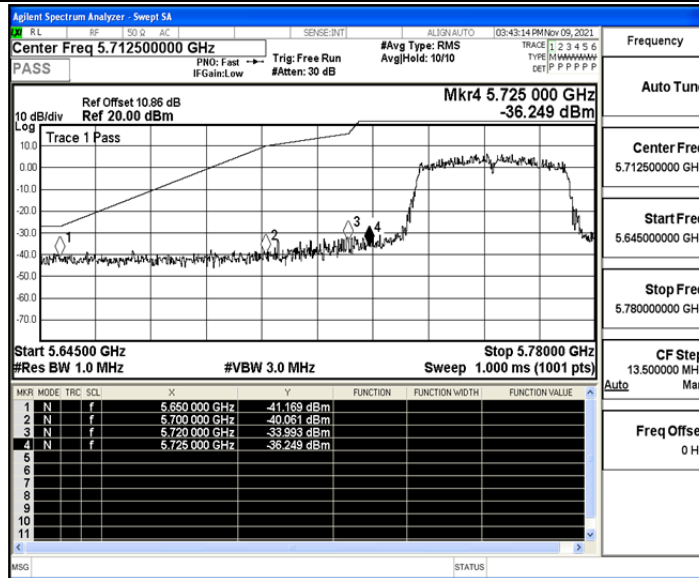
11AC20SISO_Ant1_Low_5745_Peak



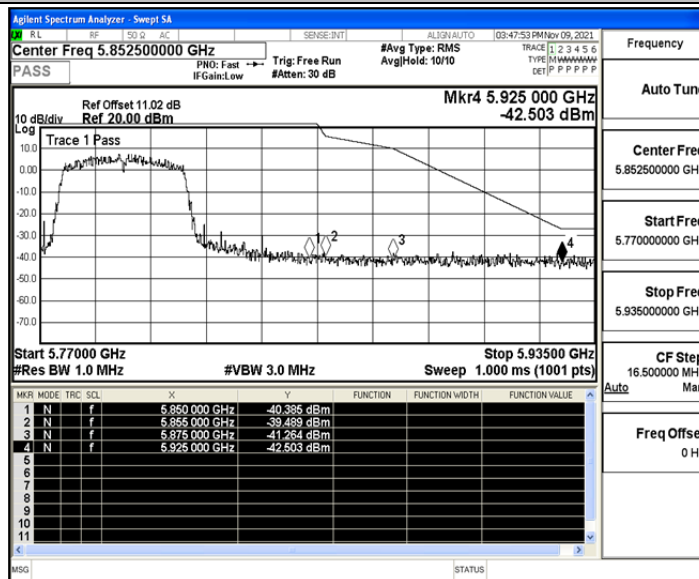
11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

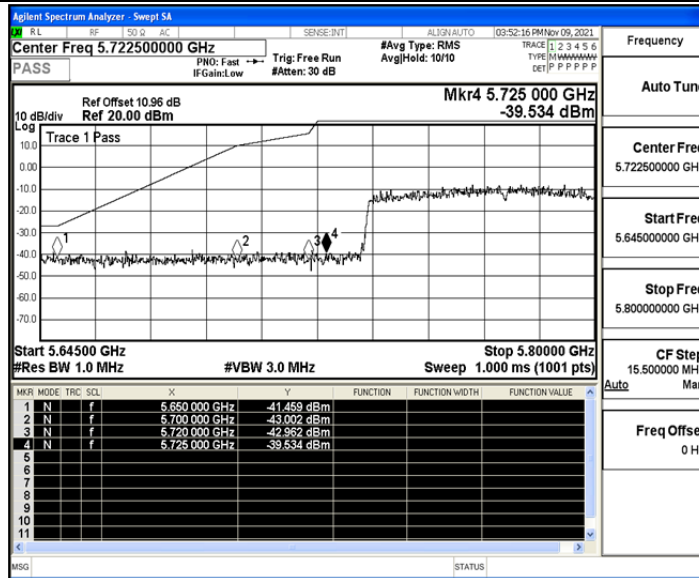


11AC40SISO_Ant1_High_5795_Peak

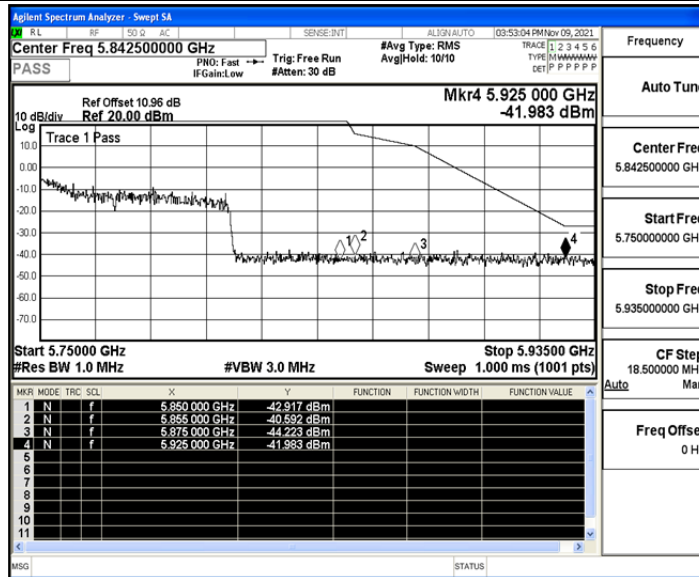




11AC80SISO_Ant1_Low_5775_Peak



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	
11A	Ant1	5745	NV	NT	-7000	-1.218451	20	PASS	
			LV	NT	-6000	-1.044386	20	PASS	
			HV	NT	-6000	-1.044386	20	PASS	
		5785	NV	NT	-7000	-1.210026	-1.210026	20	PASS
			LV	NT	-6000	-1.037165	-1.037165	20	PASS
			HV	NT	-6000	-1.037165	-1.037165	20	PASS
		5825	NV	NT	-7000	-1.201717	-1.201717	20	PASS
			LV	NT	-6000	-1.030043	-1.030043	20	PASS
			HV	NT	-6000	-1.030043	-1.030043	20	PASS
11AC20SIS O	Ant1	5745	NV	NT	-6000	-1.044386	20	PASS	
			LV	NT	-6000	-1.044386	20	PASS	
			HV	NT	-6000	-1.044386	20	PASS	
		5785	NV	NT	-6000	-1.037165	-1.037165	20	PASS
			LV	NT	-6000	-1.037165	-1.037165	20	PASS
			HV	NT	-6000	-1.037165	-1.037165	20	PASS
		5825	NV	NT	-7000	-1.201717	-1.201717	20	PASS
			LV	NT	-6000	-1.030043	-1.030043	20	PASS
			HV	NT	-5000	-0.858369	-0.858369	20	PASS
11AC40SIS O	Ant1	5755	NV	NT	-7000	-1.216334	20	PASS	
			LV	NT	-5000	-0.86881	20	PASS	
			HV	NT	-5000	-0.86881	20	PASS	
		5795	NV	NT	-6000	-1.035375	-1.035375	20	PASS
			LV	NT	-6000	-1.035375	-1.035375	20	PASS
			HV	NT	-5000	-0.862813	-0.862813	20	PASS
11AC80SIS O	Ant1	5775	NV	NT	-7000	-1.212121	20	PASS	
			LV	NT	-6000	-1.038961	20	PASS	
			HV	NT	-6000	-1.038961	20	PASS	

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	-30	-5000	-0.870322	20	PASS
			NV	-20	-6000	-1.044386	20	PASS
			NV	-10	-6000	-1.044386	20	PASS
			NV	0	-6000	-1.044386	20	PASS
			NV	10	-6000	-1.044386	20	PASS



			NV	20	-6000	-1.044386	20	PASS		
			NV	30	-5000	-0.870322	20	PASS		
			NV	40	-6000	-1.044386	20	PASS		
			NV	50	-5000	-0.870322	20	PASS		
		5785	NV	-30	-5000	-0.864304	20	PASS		
			NV	-20	-6000	-1.037165	20	PASS		
			NV	-10	-6000	-1.037165	20	PASS		
			NV	0	-6000	-1.037165	20	PASS		
			NV	10	-5000	-0.864304	20	PASS		
			NV	20	-6000	-1.037165	20	PASS		
			NV	30	-5000	-0.864304	20	PASS		
			NV	40	-5000	-0.864304	20	PASS		
			NV	50	-5000	-0.864304	20	PASS		
			5825	NV	-30	-6000	-1.030043	20	PASS	
				NV	-20	-6000	-1.030043	20	PASS	
				NV	-10	-6000	-1.030043	20	PASS	
		NV		0	-6000	-1.030043	20	PASS		
		NV		10	-6000	-1.030043	20	PASS		
		NV		20	-6000	-1.030043	20	PASS		
		NV		30	-5000	-0.858369	20	PASS		
		NV		40	-6000	-1.030043	20	PASS		
		11AC20SIS O	Ant1	5745	NV	-30	-5000	-0.870322	20	PASS
					NV	-20	-6000	-1.044386	20	PASS
					NV	-10	-6000	-1.044386	20	PASS
					NV	0	-5000	-0.870322	20	PASS
					NV	10	-6000	-1.044386	20	PASS
					NV	20	-6000	-1.044386	20	PASS
					NV	30	-5000	-0.870322	20	PASS
					NV	40	-6000	-1.044386	20	PASS
				NV	50	-6000	-1.044386	20	PASS	
				5785	NV	-30	-5000	-0.864304	20	PASS
					NV	-20	-6000	-1.037165	20	PASS
NV	-10				-5000	-0.864304	20	PASS		
NV	0				-6000	-1.037165	20	PASS		
NV	10				-5000	-0.864304	20	PASS		
NV	20				-6000	-1.037165	20	PASS		
NV	30				-6000	-1.037165	20	PASS		
NV	40				-6000	-1.037165	20	PASS		
NV	50			-6000	-1.037165	20	PASS			
5825	NV			-30	-6000	-1.030043	20	PASS		
	NV			-20	-6000	-1.030043	20	PASS		
	NV			-10	-6000	-1.030043	20	PASS		



			NV	0	-6000	-1.030043	20	PASS
			NV	10	-6000	-1.030043	20	PASS
			NV	20	-6000	-1.030043	20	PASS
			NV	30	-6000	-1.030043	20	PASS
			NV	40	-6000	-1.030043	20	PASS
			NV	50	-6000	-1.030043	20	PASS
11AC40SIS O	Ant1	5755	NV	-30	-6000	-1.042572	20	PASS
			NV	-20	-5000	-0.86881	20	PASS
			NV	-10	-5000	-0.86881	20	PASS
			NV	0	-6000	-1.042572	20	PASS
			NV	10	-5000	-0.86881	20	PASS
			NV	20	-5000	-0.86881	20	PASS
			NV	30	-6000	-1.042572	20	PASS
			NV	40	-6000	-1.042572	20	PASS
			NV	50	-6000	-1.042572	20	PASS
		5795	NV	-30	-6000	-1.035375	20	PASS
			NV	-20	-6000	-1.035375	20	PASS
			NV	-10	-6000	-1.035375	20	PASS
			NV	0	-6000	-1.035375	20	PASS
			NV	10	-6000	-1.035375	20	PASS
			NV	20	-5000	-0.862813	20	PASS
			NV	30	-6000	-1.035375	20	PASS
			NV	40	-5000	-0.862813	20	PASS
			NV	50	-6000	-1.035375	20	PASS
11AC80SIS O	Ant1	5775	NV	-30	-6000	-1.038961	20	PASS
			NV	-20	-5000	-0.865801	20	PASS
			NV	-10	-5000	-0.865801	20	PASS
			NV	0	-6000	-1.038961	20	PASS
			NV	10	-5000	-0.865801	20	PASS
			NV	20	-6000	-1.038961	20	PASS
			NV	30	-6000	-1.038961	20	PASS
			NV	40	-6000	-1.038961	20	PASS
			NV	50	-6000	-1.038961	20	PASS



E.6 Duty Cycle

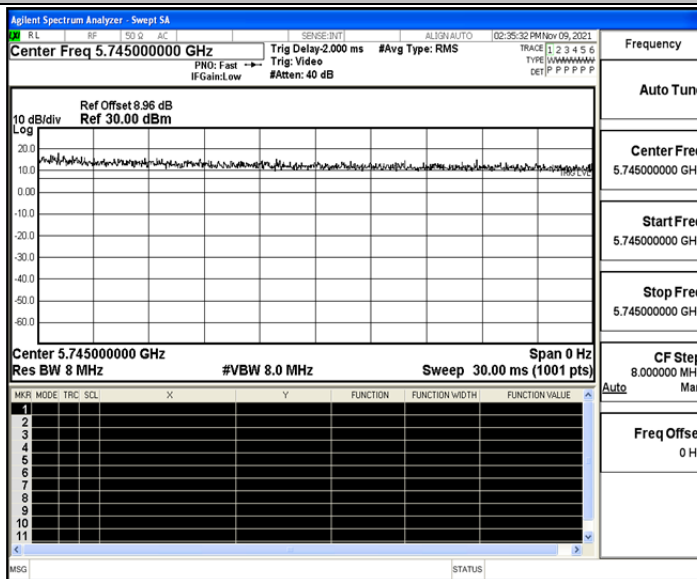
Test Result

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

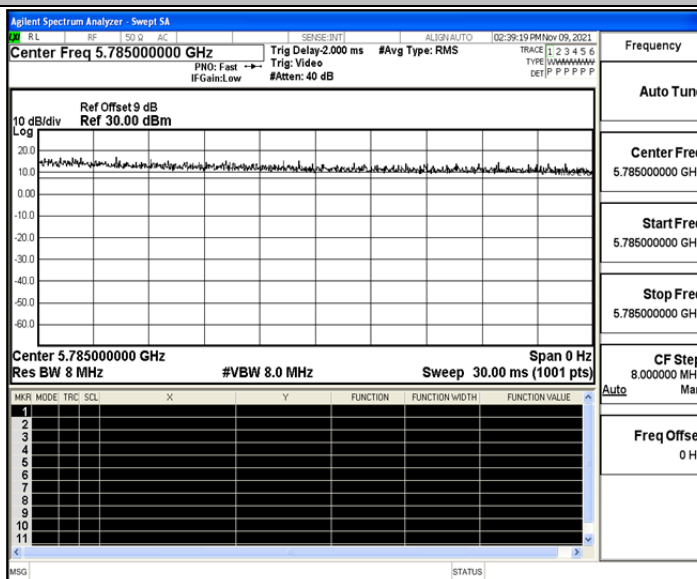


Test Graphs

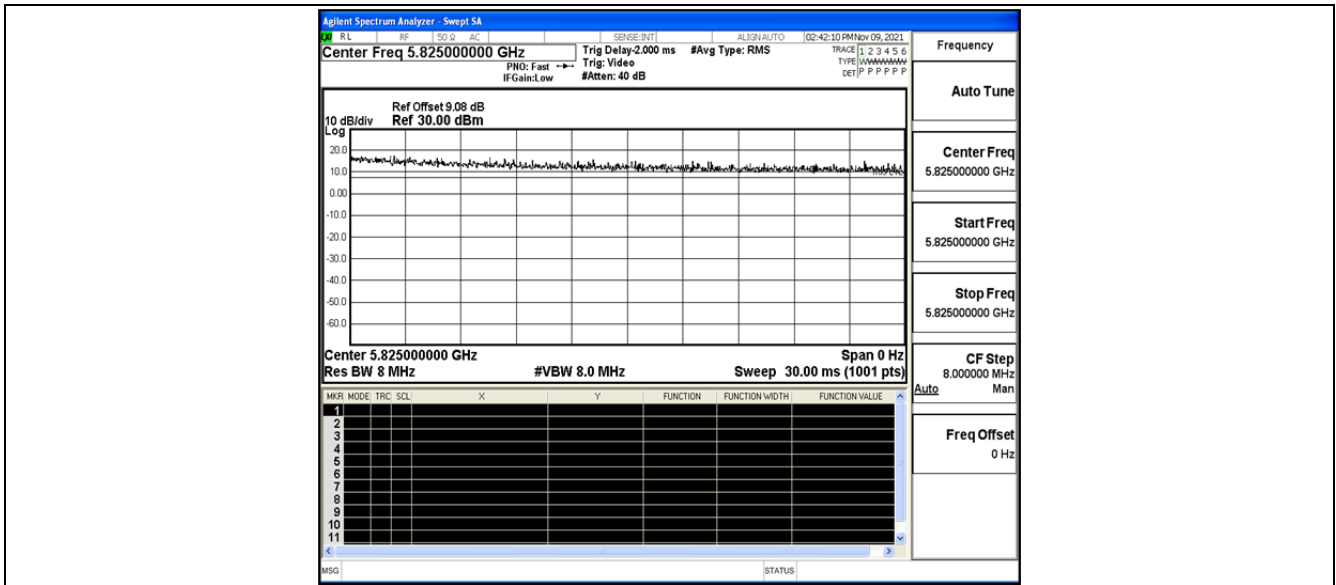
11A_Ant1_5745



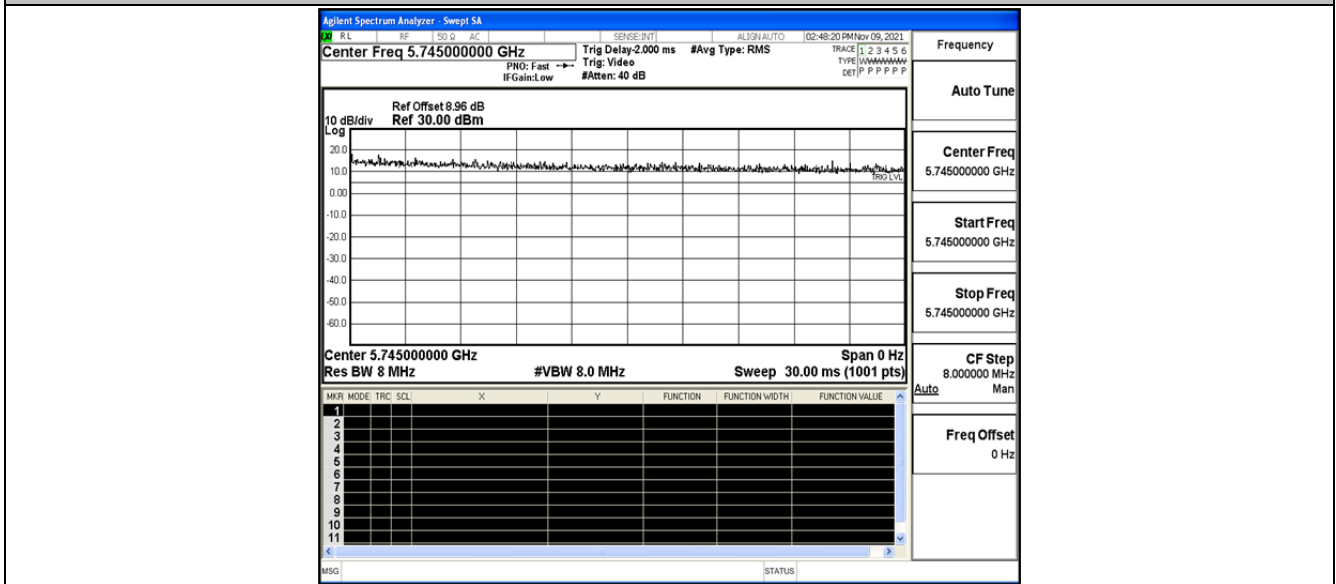
11A_Ant1_5785



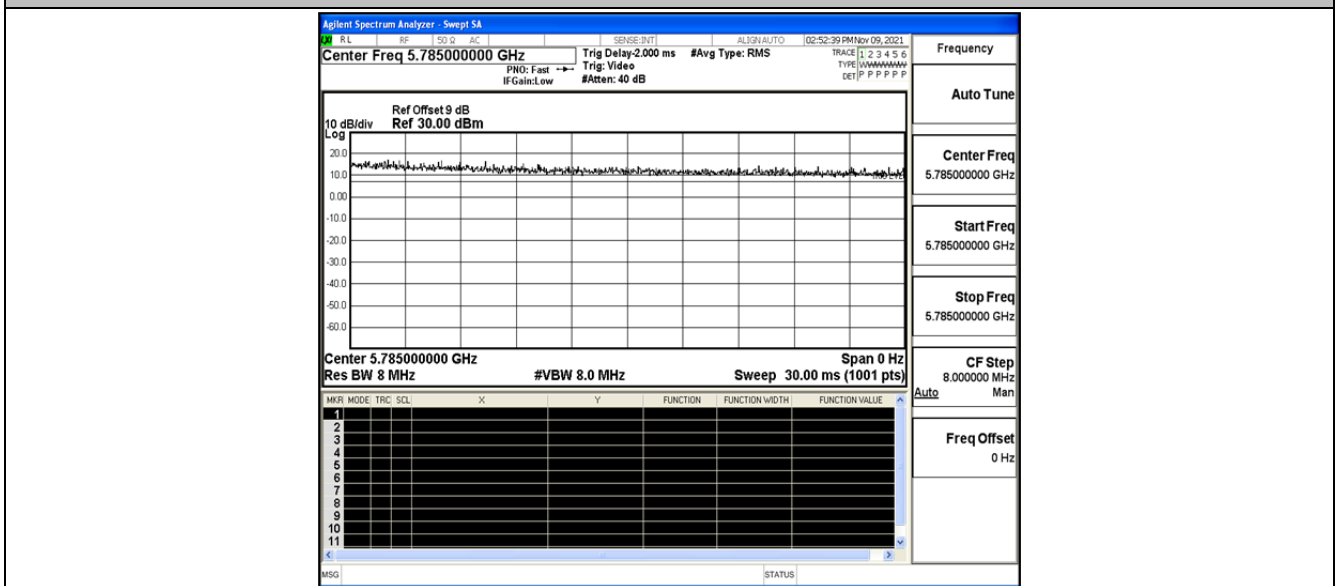
11A_Ant1_5825



11N20SISO_Ant1_5745

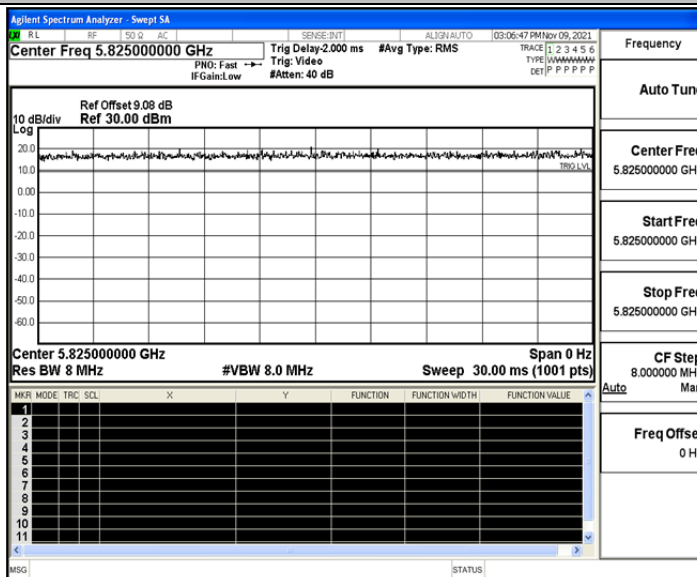


11N20SISO_Ant1_5785

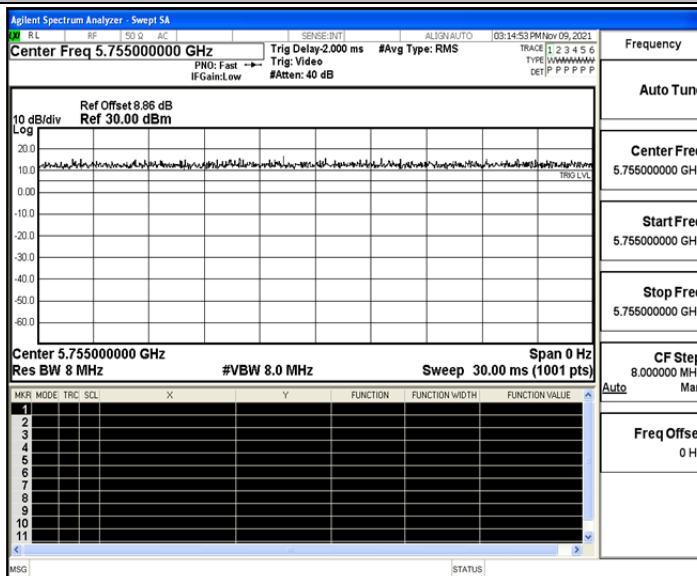




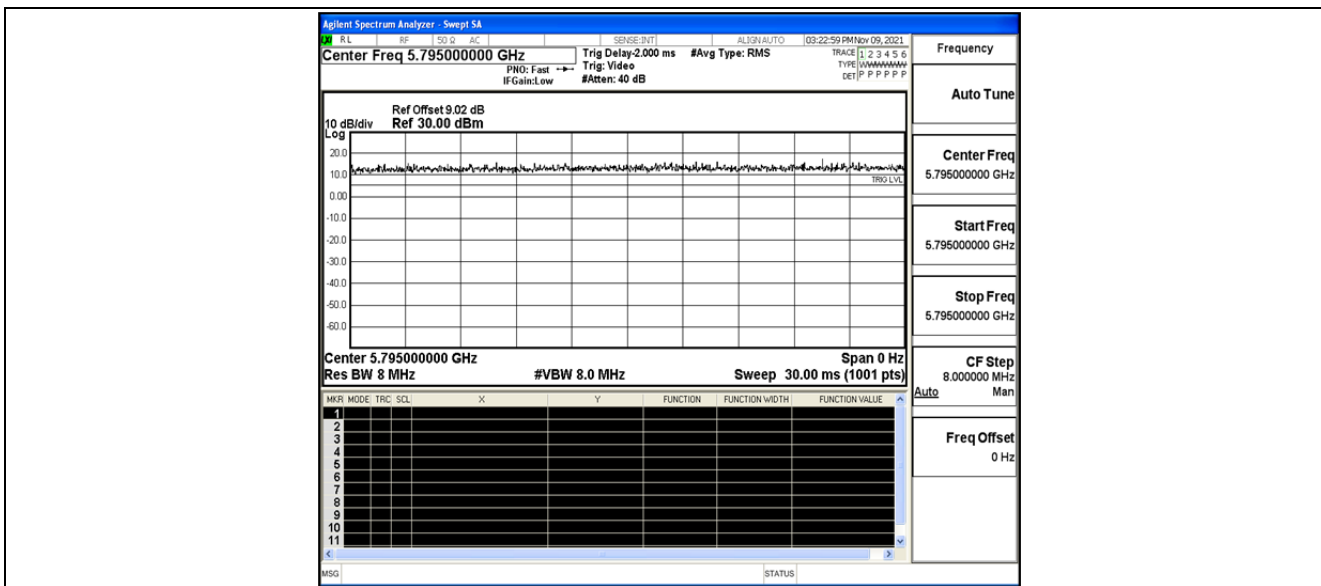
11N20SISO_Ant1_5825



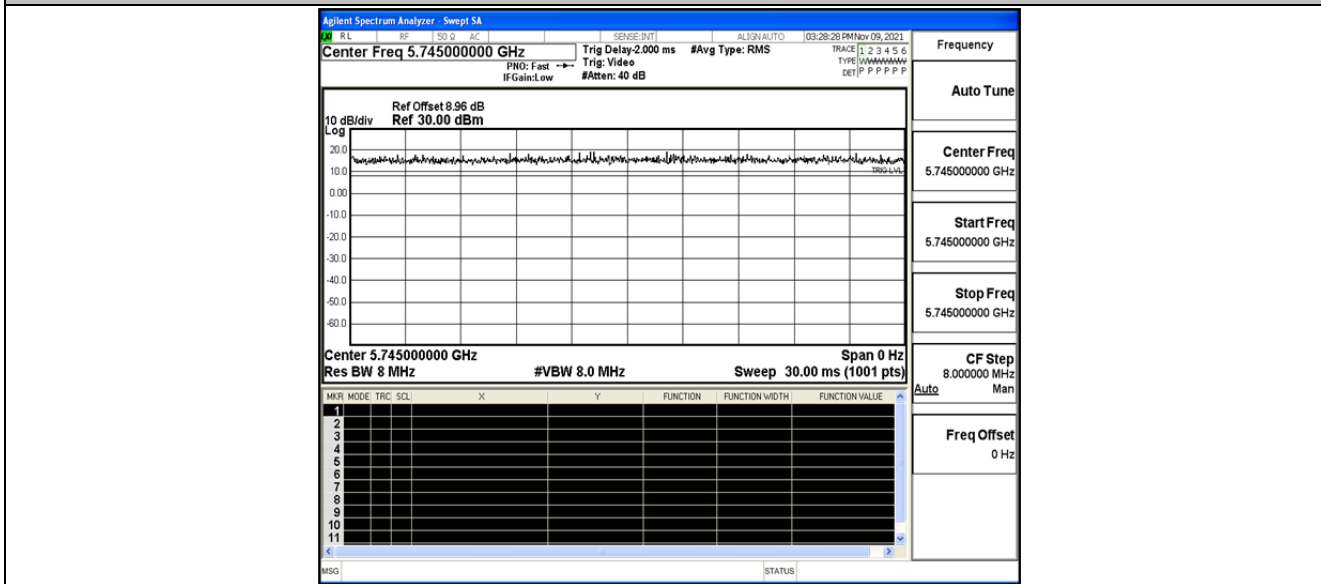
11N40SISO_Ant1_5755



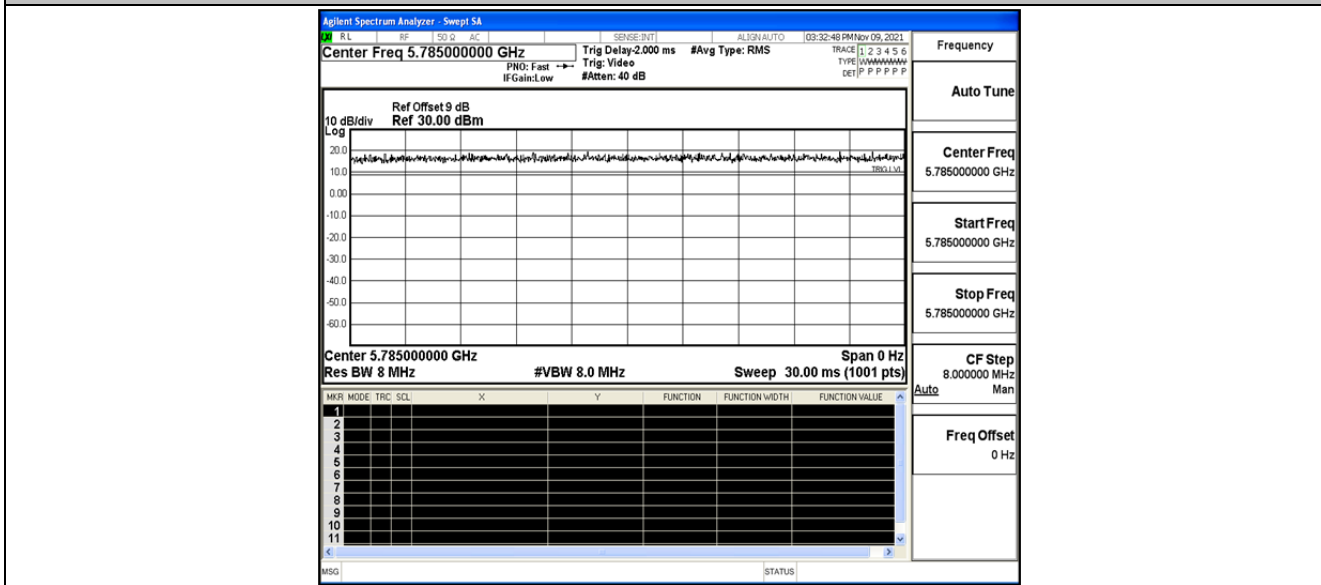
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

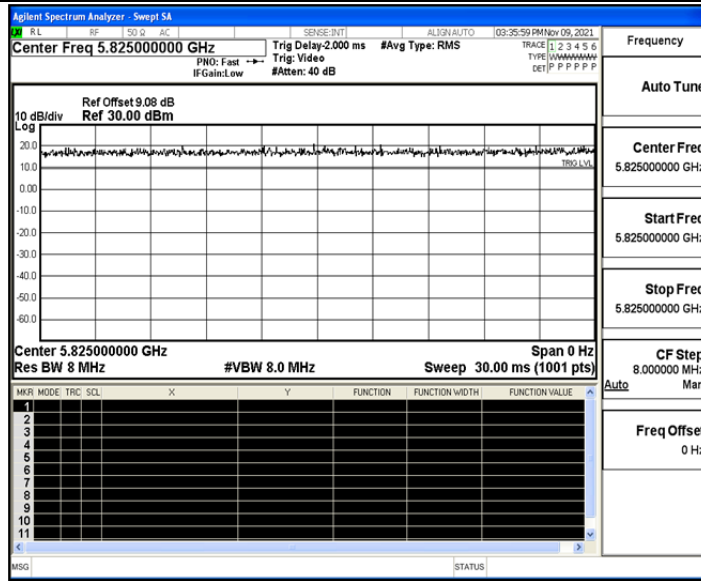


11AC20SISO_Ant1_5785

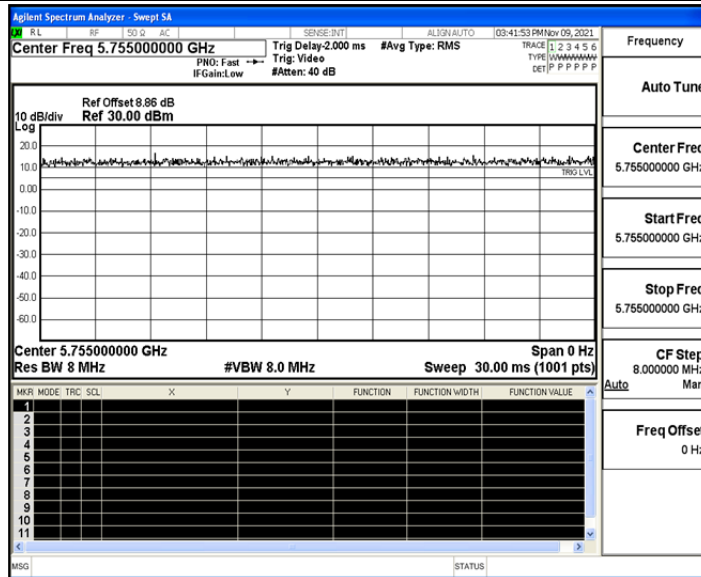




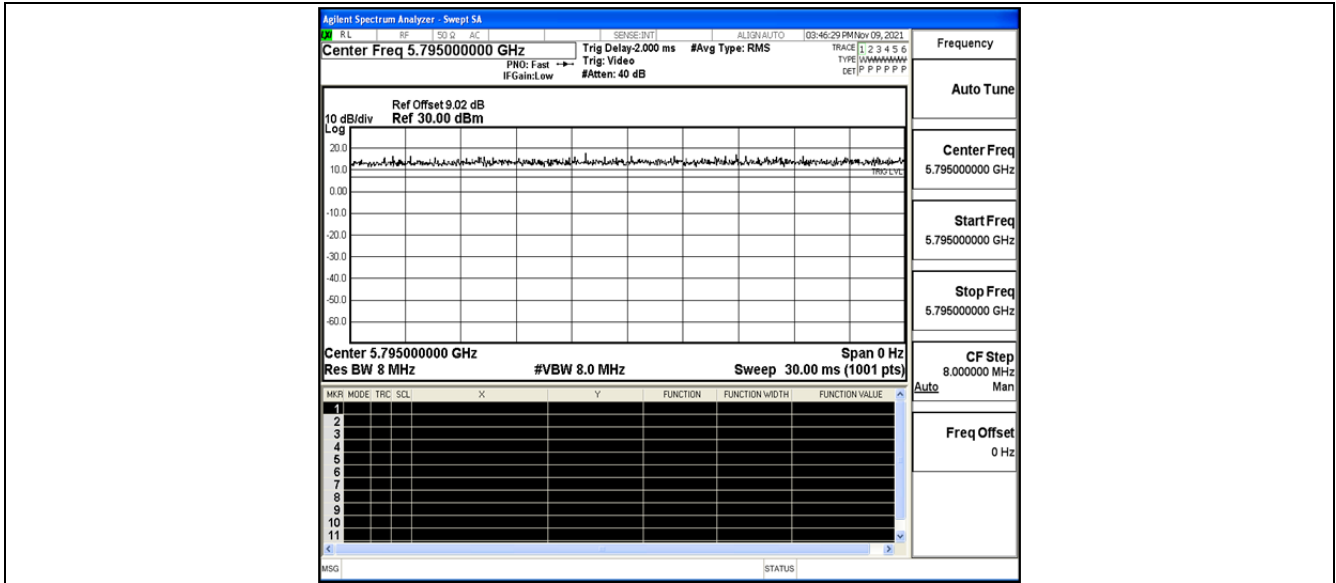
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

