



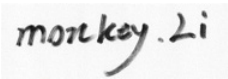
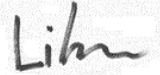
Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: TABLET PC

Test Model: BELLATRIX

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan



E.1 Min emission bandwidth

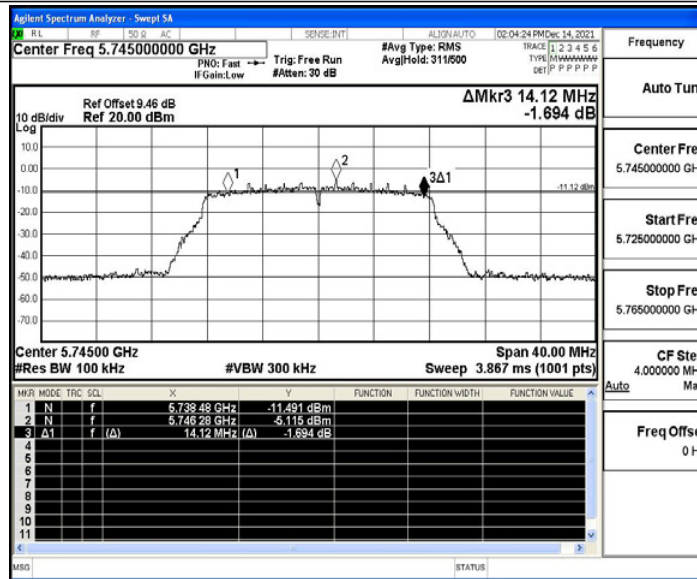
Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	14.120	5738.480	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	14.480	5818.080	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.160	5777.400	5792.560	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11N40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.200	5777.400	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.160	5817.440	5832.600	0.5	PASS
11AC40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.200	5777.400	5812.600	0.5	PASS
11AC80SISO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS

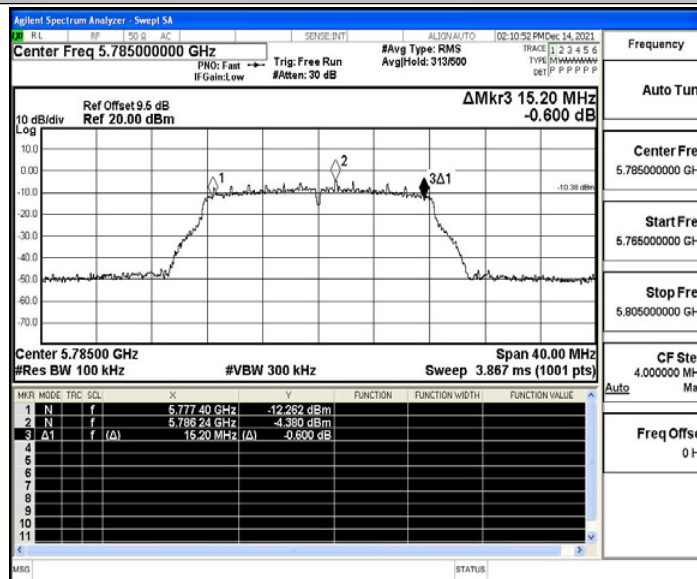


Test Graphs

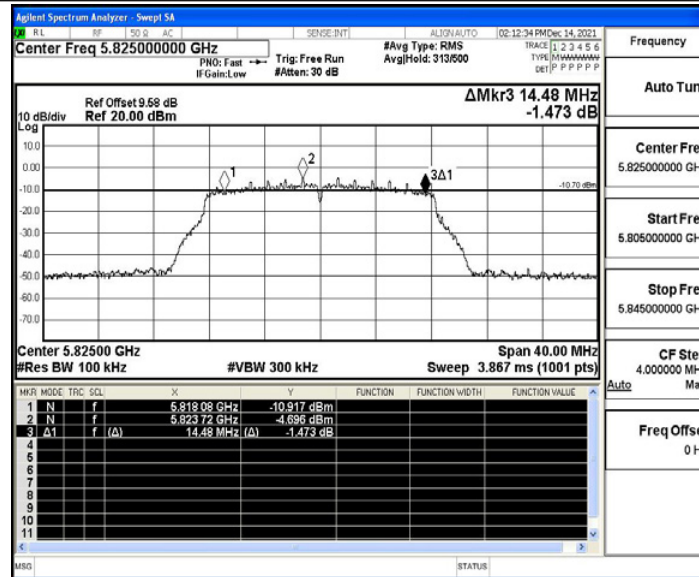
11A_Ant1_5745



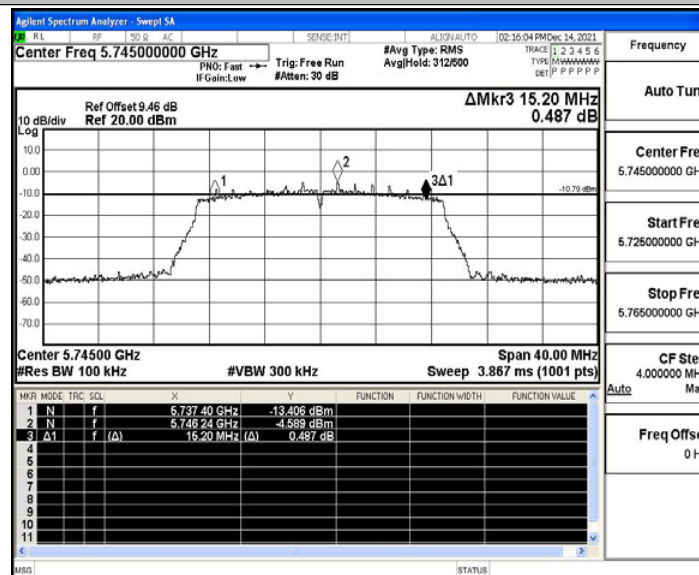
11A_Ant1_5785



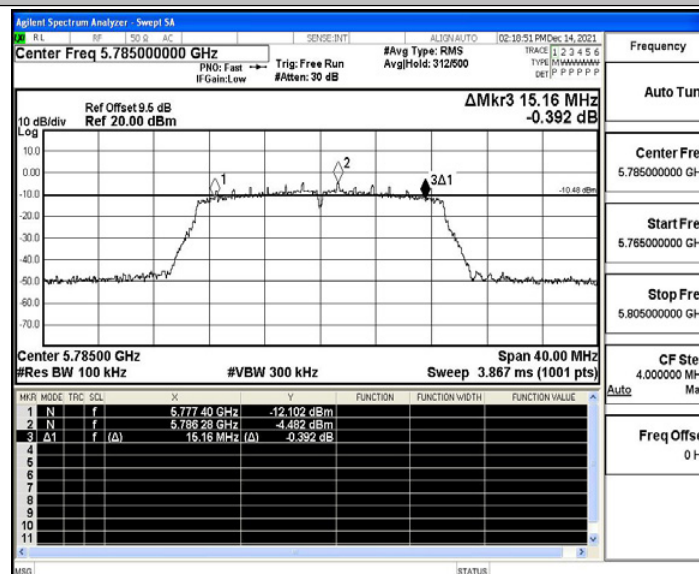
11A_Ant1_5825



11N20SISO_Ant1_5745

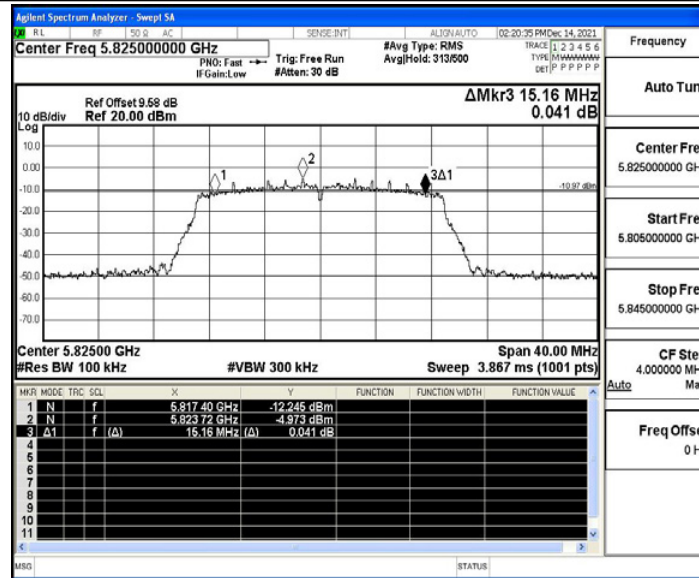


11N20SISO_Ant1_5785

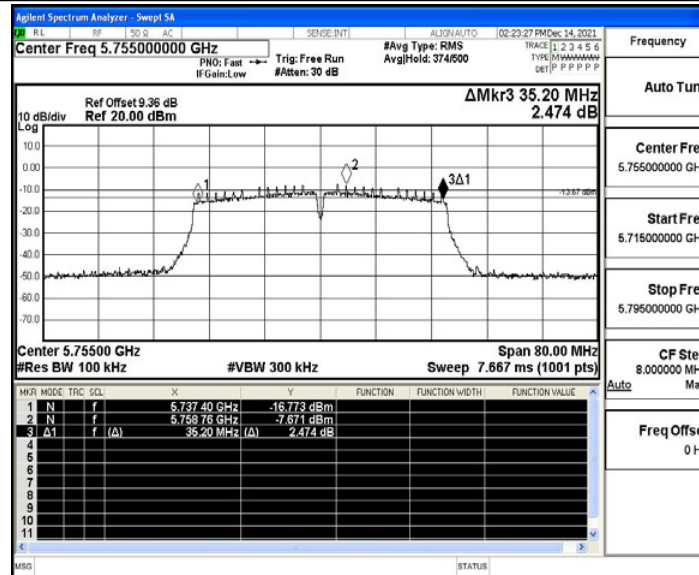




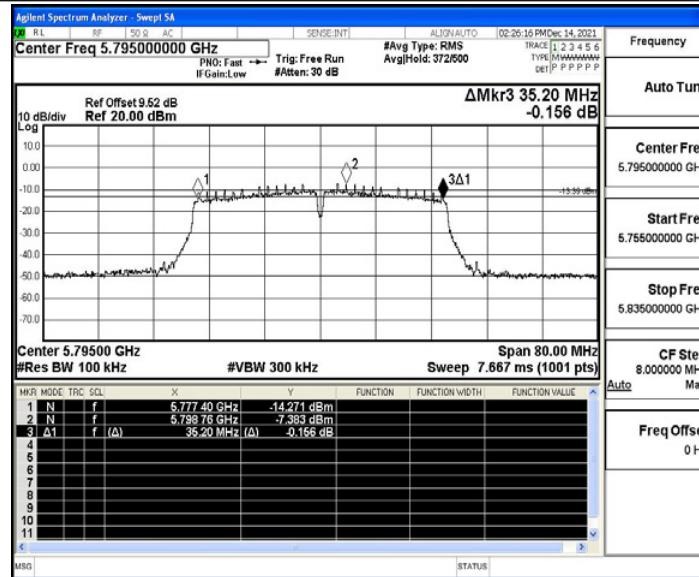
11N20SISO_Ant1_5825



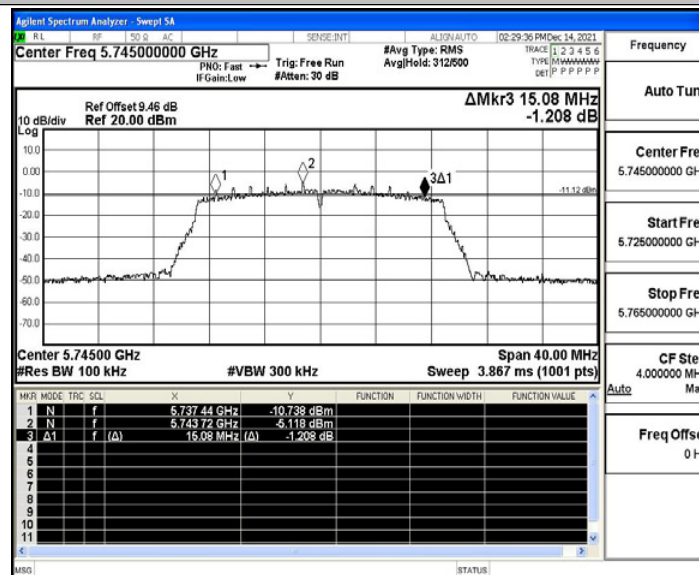
11N40SISO_Ant1_5755



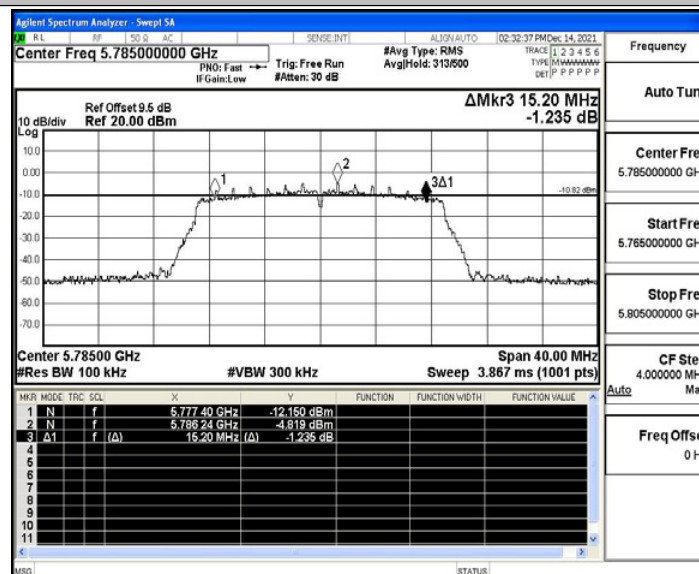
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

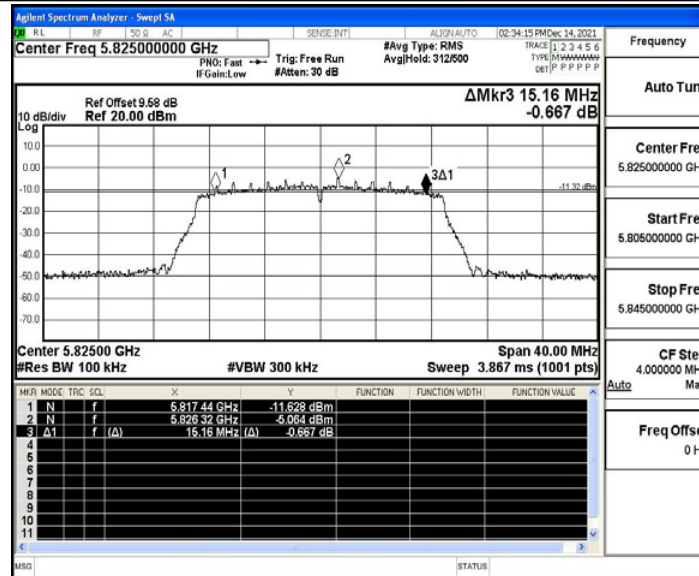


11AC20SISO_Ant1_5785

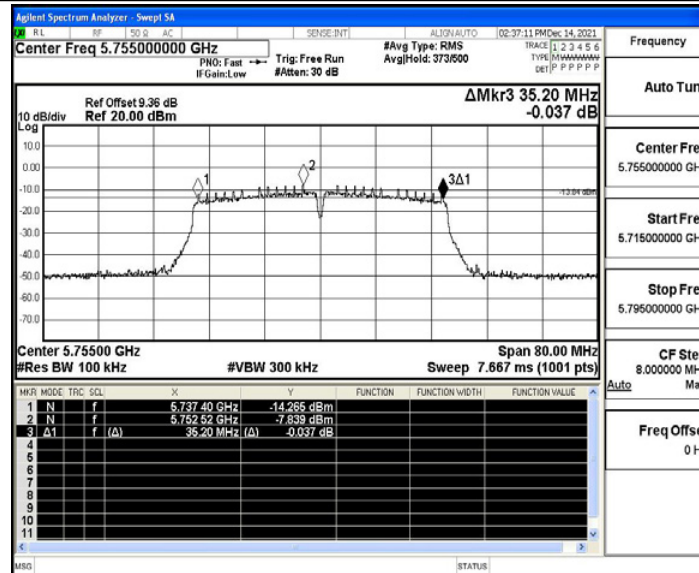




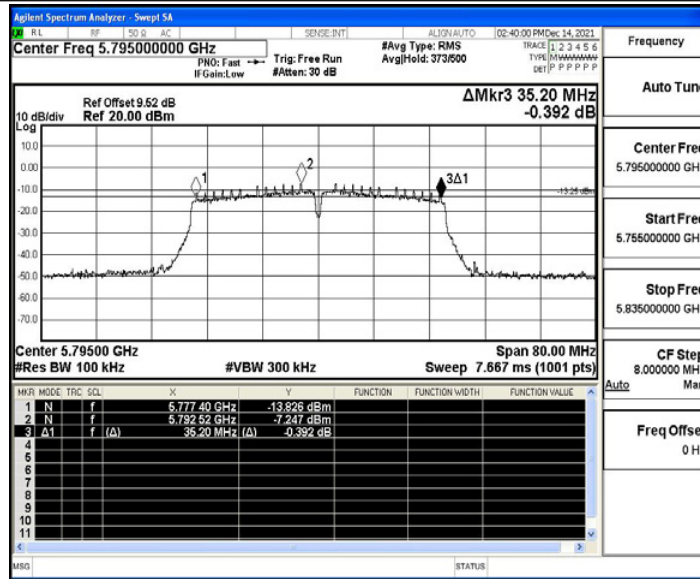
11AC20SISO_Ant1_5825



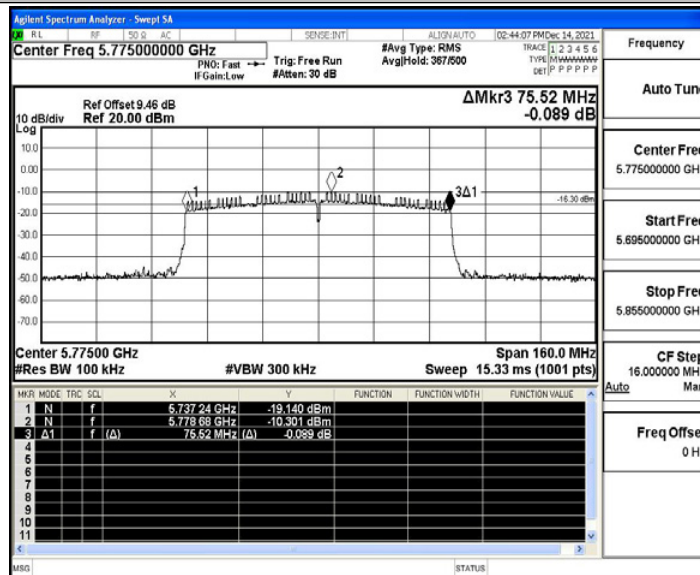
11AC40SISO_Ant1_5755



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	6.93	≤ 30	PASS
		5785	6.75	≤ 30	PASS
		5825	6.96	≤ 30	PASS
11N20SISO	Ant1	5745	6.38	≤ 30	PASS
		5785	6.68	≤ 30	PASS
		5825	6.86	≤ 30	PASS
11N40SISO	Ant1	5755	6.41	≤ 30	PASS
		5795	6.02	≤ 30	PASS
11AC20SISO	Ant1	5745	6.23	≤ 30	PASS
		5785	6.60	≤ 30	PASS
		5825	6.83	≤ 30	PASS
11AC40SISO	Ant1	5755	6.35	≤ 30	PASS
		5795	6.02	≤ 30	PASS
11AC80SISO	Ant1	5775	6.66	≤ 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/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-7.09	≤ 30	PASS
		5785	-7.02	≤ 30	PASS
		5825	-7.07	≤ 30	PASS
11N20SISO	Ant1	5745	-7.8	≤ 30	PASS
		5785	-7.51	≤ 30	PASS
		5825	-6.86	≤ 30	PASS
11N40SISO	Ant1	5755	-10.59	≤ 30	PASS
		5795	-10.3	≤ 30	PASS
11AC20SISO	Ant1	5745	-7.72	≤ 30	PASS
		5785	-7.25	≤ 30	PASS
		5825	-7.43	≤ 30	PASS
11AC40SISO	Ant1	5755	-10.84	≤ 30	PASS
		5795	-9.84	≤ 30	PASS
11AC80SISO	Ant1	5775	-13.45	≤ 30	PASS

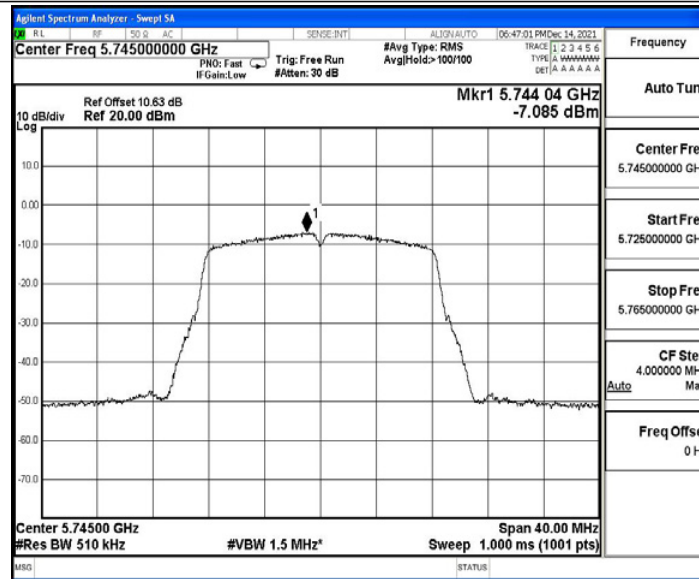
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

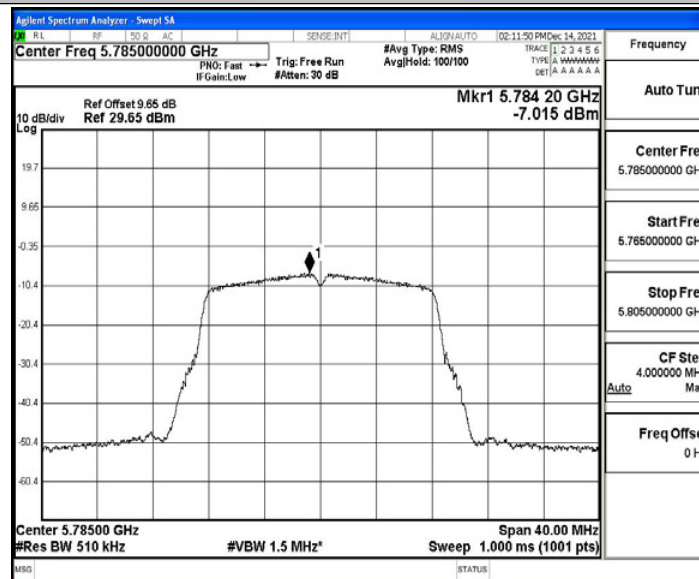


Test Graphs

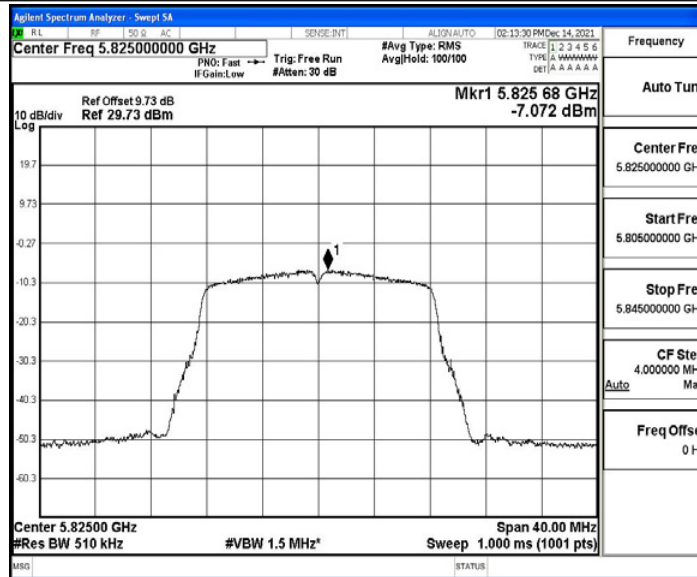
11A_Ant1_5745



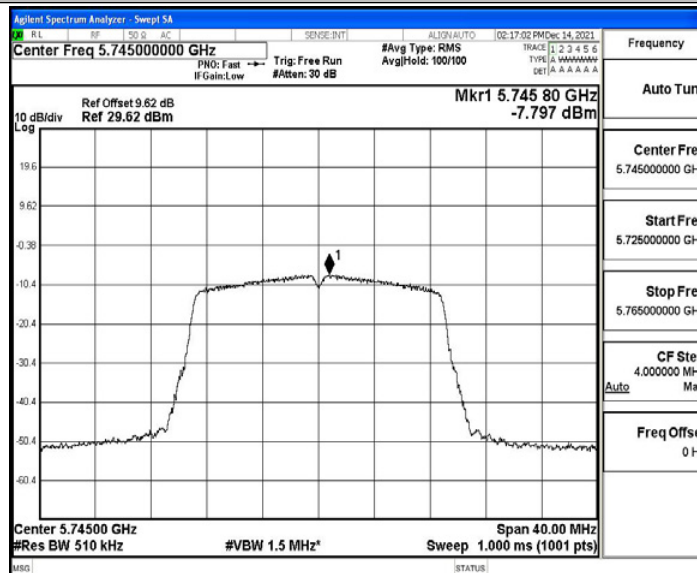
11A_Ant1_5785



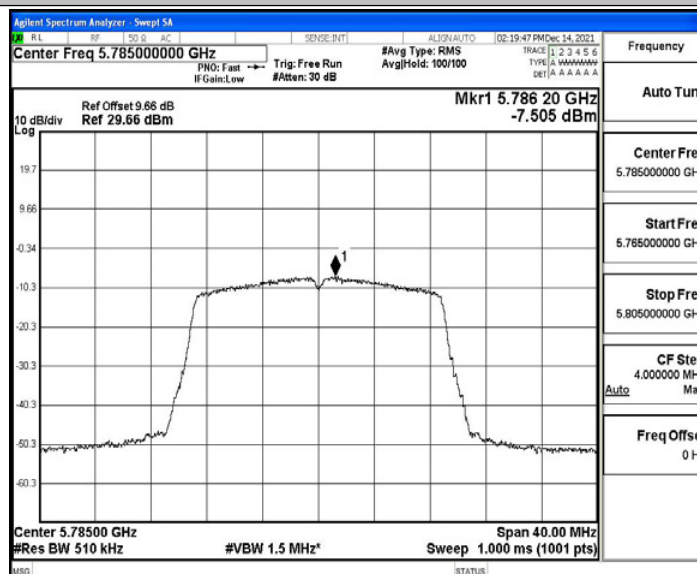
11A_Ant1_5825



11N20SISO_Ant1_5745

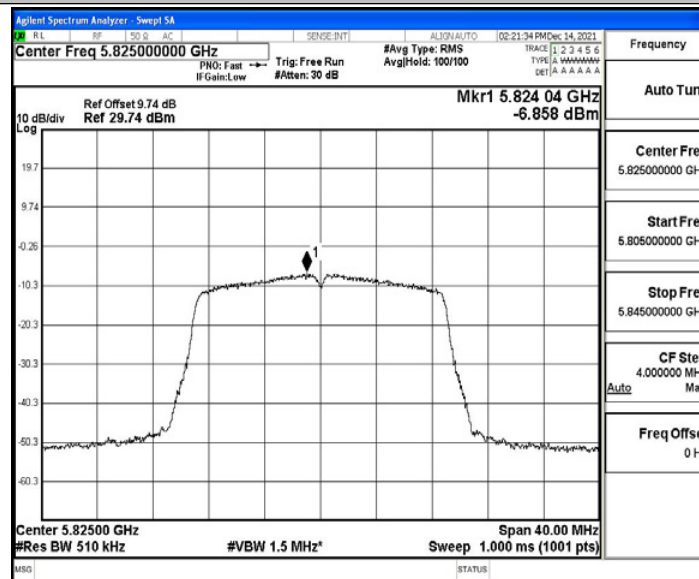


11N20SISO_Ant1_5785

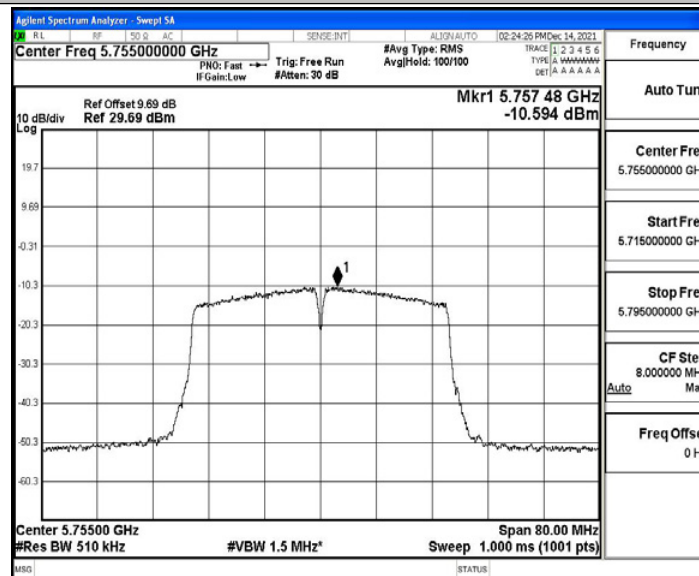




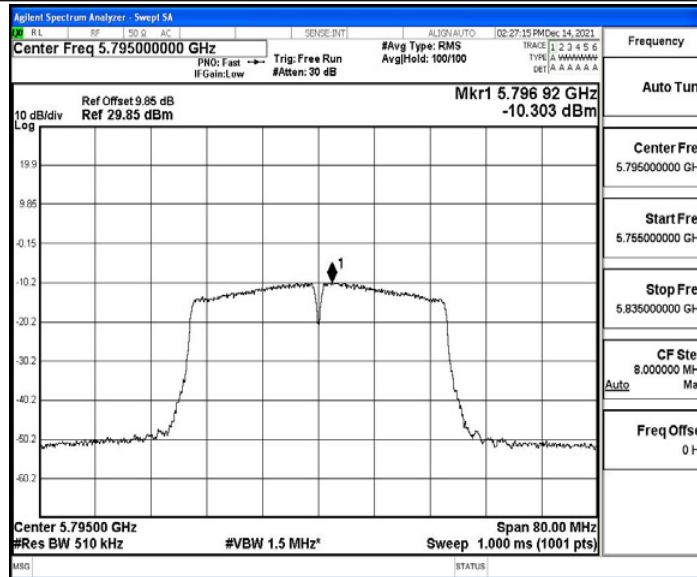
11N20SISO_Ant1_5825



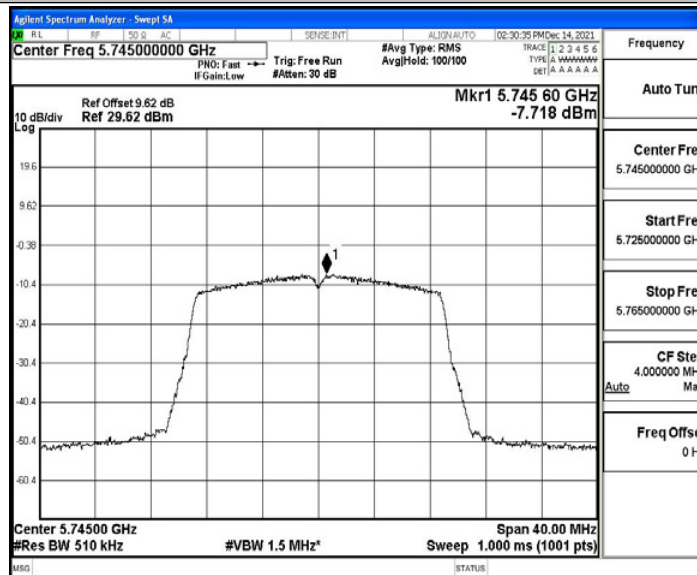
11N40SISO_Ant1_5755



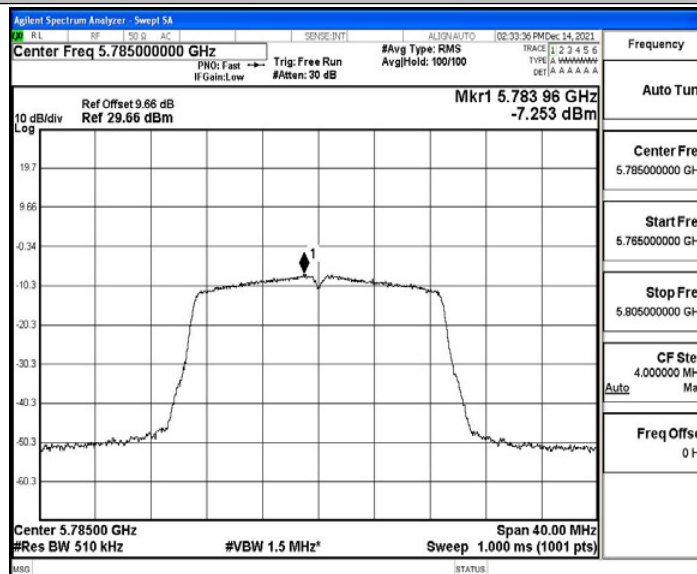
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

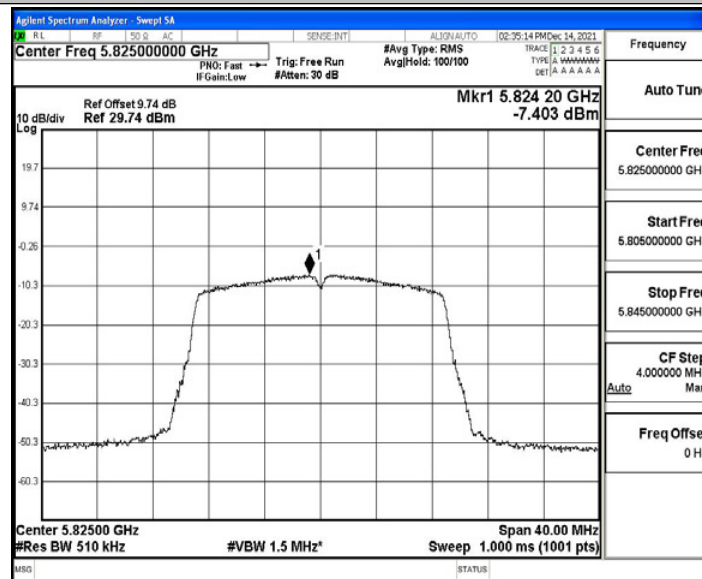


11AC20SISO_Ant1_5785

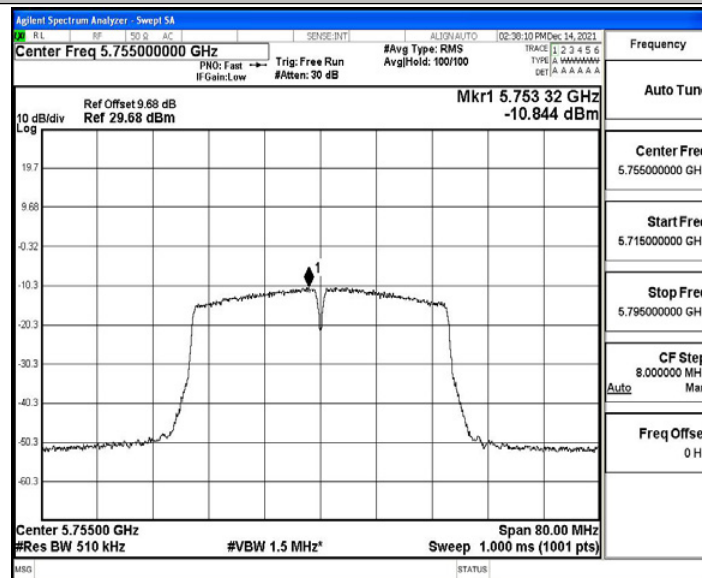




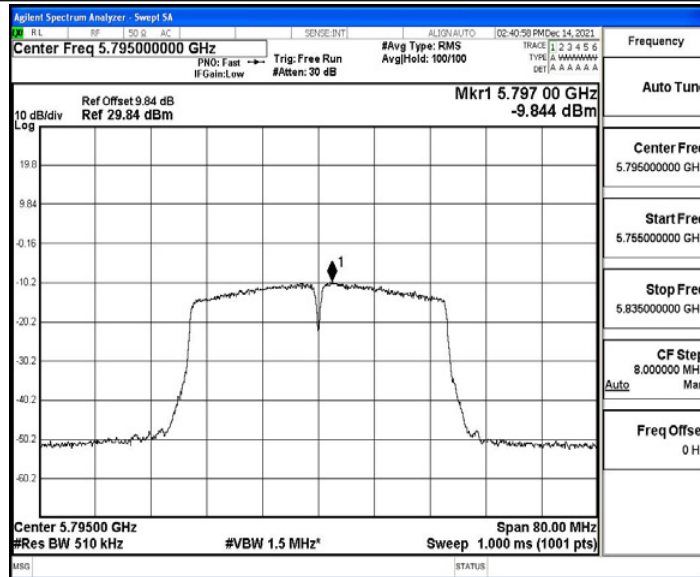
11AC20SISO_Ant1_5825



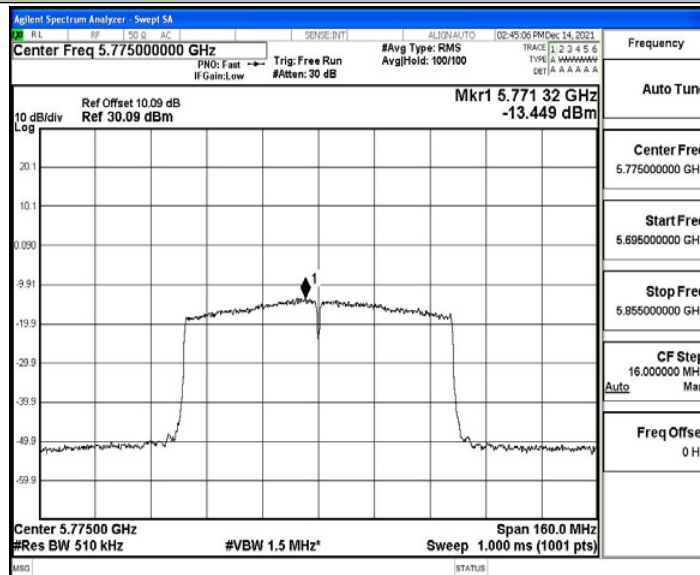
11AC40SISO_Ant1_5755



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	-38.303	≤-27.00	---	---	PASS
				Peak	5700.000	-36.61	≤10.00	---	---	PASS
				Peak	5720.000	-36.92	≤15.60	---	---	PASS
				Peak	5725.000	-36.46	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.641	≤15.60	---	---	PASS
				Peak	5855.000	-39.58	≤27.00	---	---	PASS
				Peak	5875.000	-40.02	≤15.60	---	---	PASS
				Peak	5925.000	-39.58	≤10.00	---	---	PASS
11N20SI SO	Ant1	Low	5745	Peak	5650.000	-40.122	≤-27.00	---	---	PASS
				Peak	5700.000	-39.51	≤10.00	---	---	PASS
				Peak	5720.000	-40.24	≤15.60	---	---	PASS
				Peak	5725.000	-39.51	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.376	≤15.60	---	---	PASS
				Peak	5855.000	-37.79	≤27.00	---	---	PASS
				Peak	5875.000	-39.41	≤15.60	---	---	PASS
				Peak	5925.000	-40.87	≤10.00	---	---	PASS
11N40SI SO	Ant1	Low	5755	Peak	5650.000	-39.899	≤-27.00	---	---	PASS
				Peak	5700.000	-39.14	≤10.00	---	---	PASS
				Peak	5720.000	-38.4	≤15.60	---	---	PASS
				Peak	5725.000	-37.67	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-39.591	≤15.60	---	---	PASS
				Peak	5855.000	-39.4	≤27.00	---	---	PASS
				Peak	5875.000	-40.66	≤15.60	---	---	PASS
				Peak	5925.000	-39.95	≤10.00	---	---	PASS
11AC20S ISO	Ant1	Low	5745	Peak	5650.000	-38.905	≤-27.00	---	---	PASS
				Peak	5700.000	-39.29	≤10.00	---	---	PASS
				Peak	5720.000	-40.82	≤15.60	---	---	PASS
				Peak	5725.000	-38.69	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.881	≤15.60	---	---	PASS
				Peak	5855.000	-39.48	≤27.00	---	---	PASS
				Peak	5875.000	-39.36	≤15.60	---	---	PASS
				Peak	5925.000	-41.31	≤10.00	---	---	PASS
11AC40S ISO	Ant1	Low	5755	Peak	5650.000	-38.609	≤-27.00	---	---	PASS
				Peak	5700.000	-39.93	≤10.00	---	---	PASS
				Peak	5720.000	-39.14	≤15.60	---	---	PASS
				Peak	5725.000	-37.11	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-38.397	≤15.60	---	---	PASS



11AC80S ISO	Ant1	Low	5775	Peak	5855.000	-39.48	≤27.00	---	---	PASS
				Peak	5875.000	-38.62	≤15.60	---	---	PASS
				Peak	5925.000	-39.02	≤10.00	---	---	PASS
				Peak	5650.000	-41.096	≤-27.00	---	---	PASS
		High	5775	Peak	5700.000	-40.69	≤10.00	---	---	PASS
				Peak	5720.000	-39.11	≤15.60	---	---	PASS
				Peak	5725.000	-38.77	≤27.00	---	---	PASS
				Peak	5850.000	-39.586	≤15.60	---	---	PASS
			5775	Peak	5855.000	-38.42	≤27.00	---	---	PASS
				Peak	5875.000	-38.88	≤15.60	---	---	PASS
				Peak	5875.000	-38.88	≤15.60	---	---	PASS
				Peak	5925.000	-40.28	≤10.00	---	---	PASS

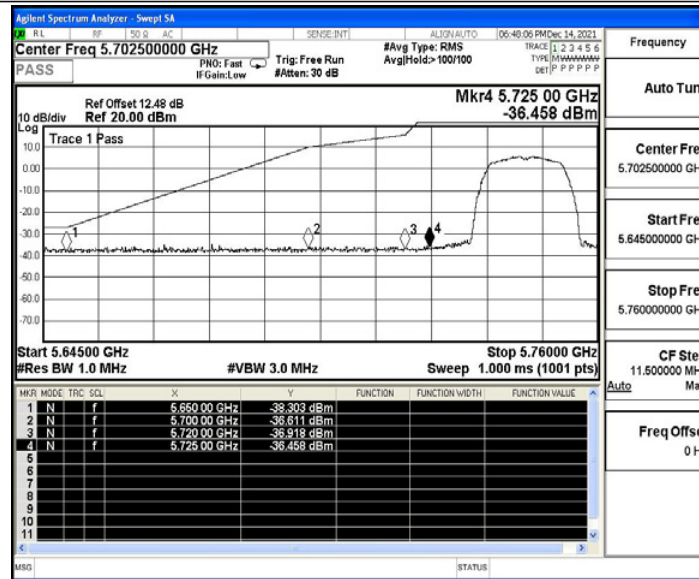
Note:

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.

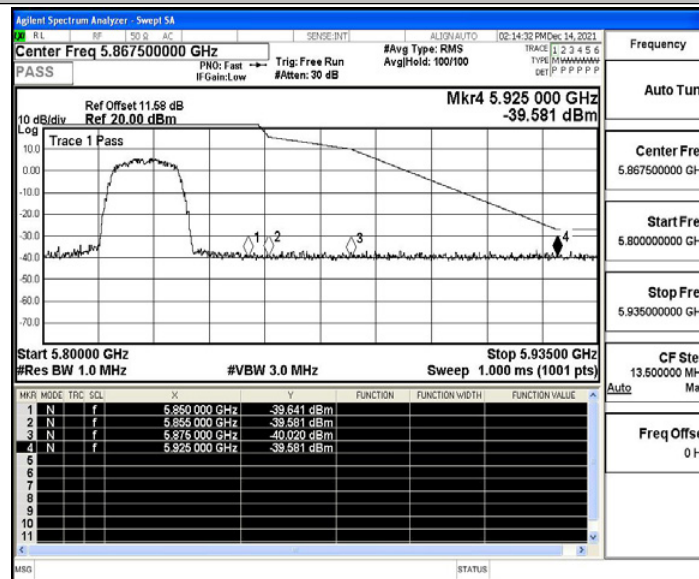


Test Graphs

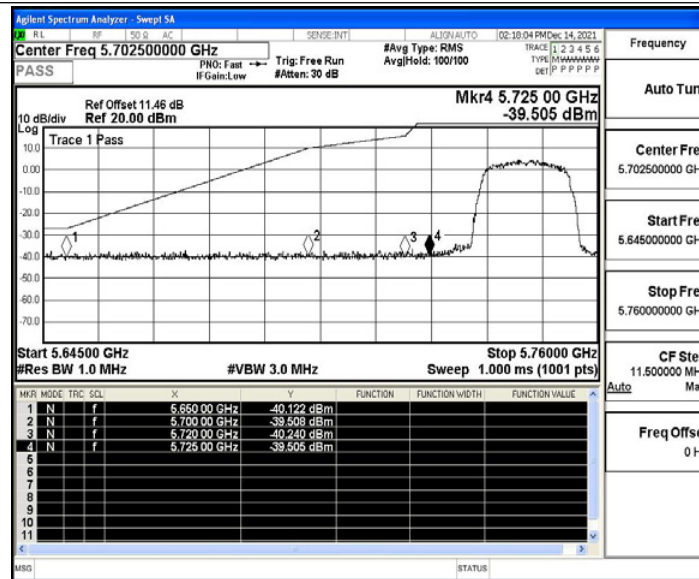
11A_Ant1_Low_5745_Peak



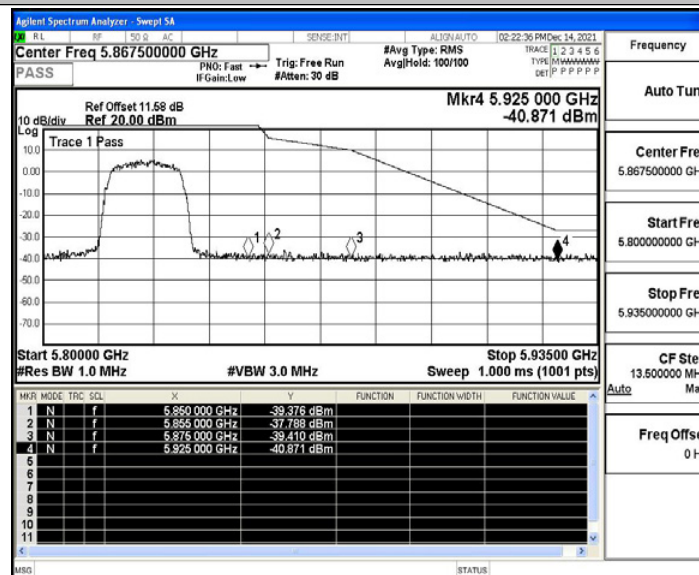
11A_Ant1_High_5825_Peak



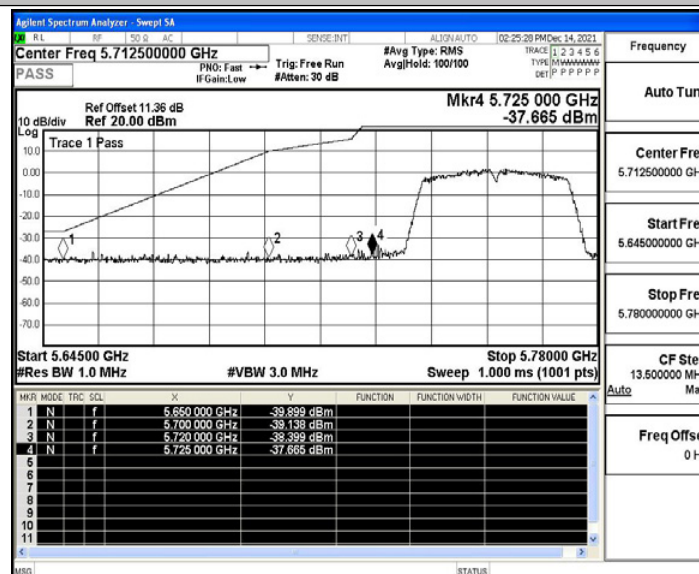
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak

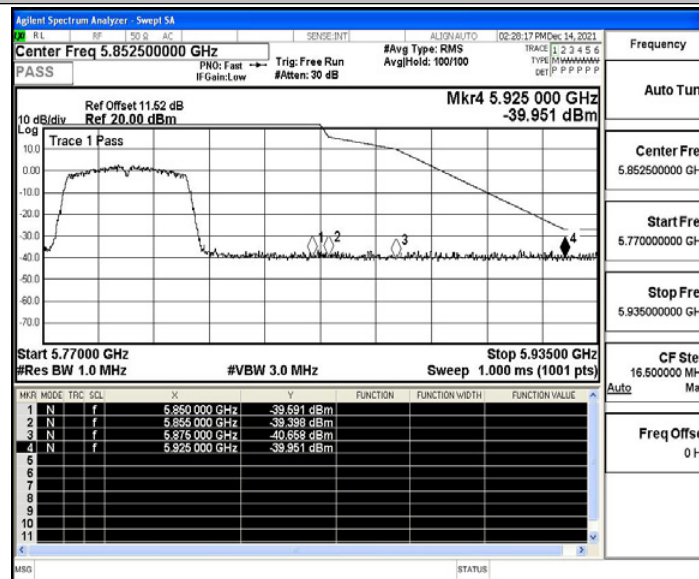


11N40SISO_Ant1_Low_5755_Peak

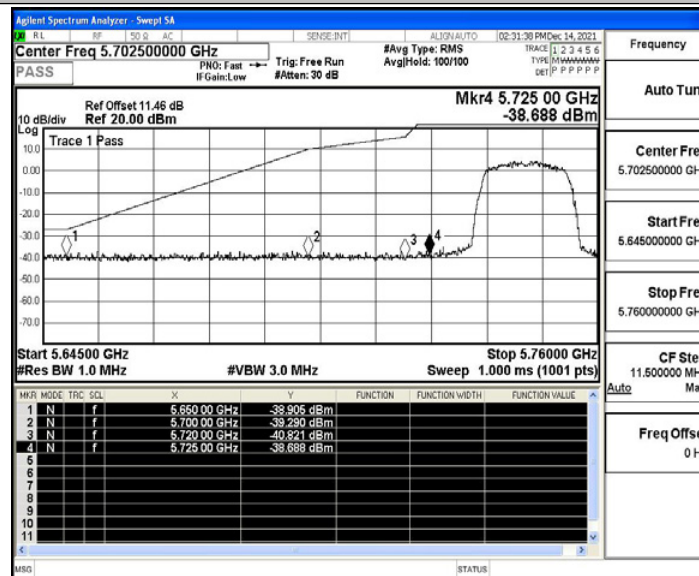




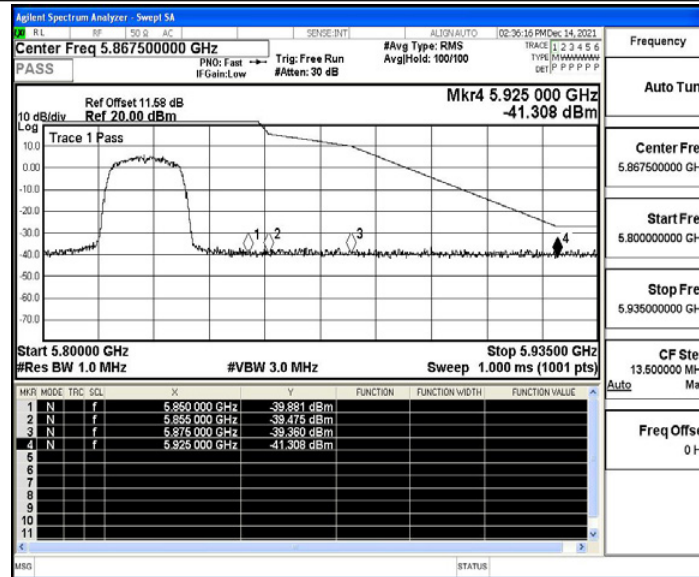
11N40SISO_Ant1_High_5795_Peak



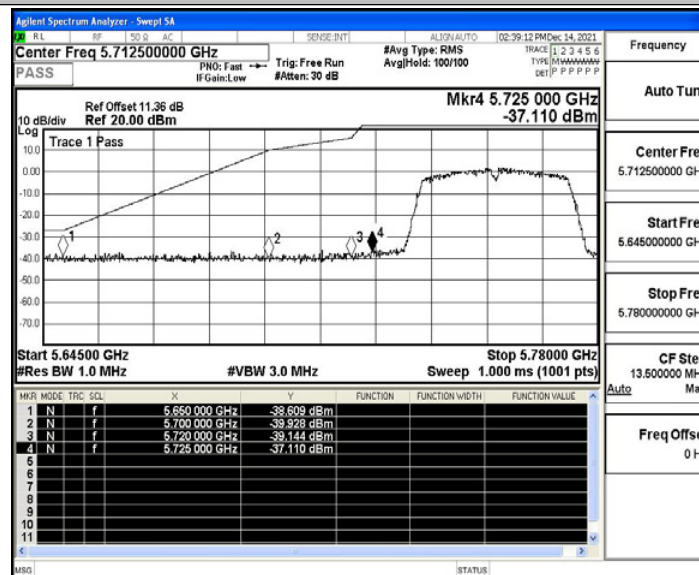
11AC20SISO_Ant1_Low_5745_Peak



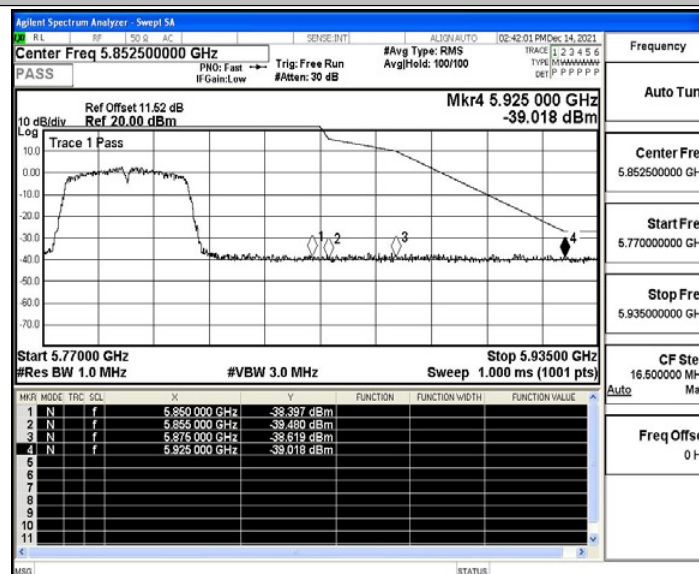
11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

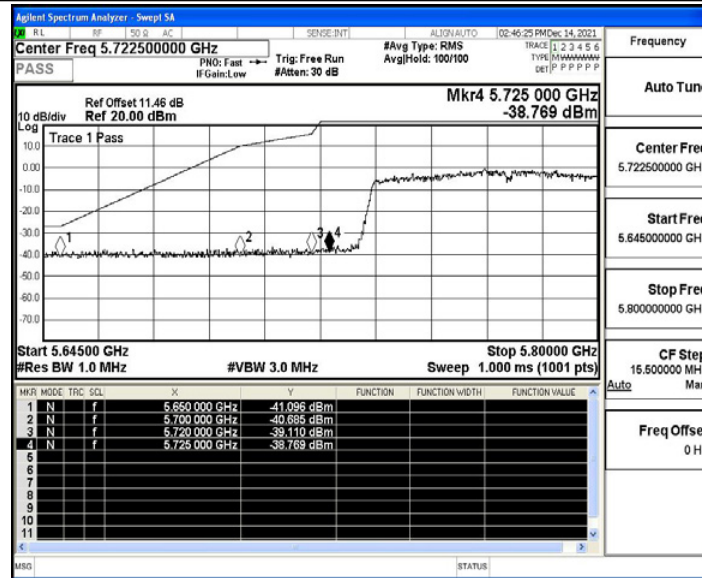


11AC40SISO_Ant1_High_5795_Peak

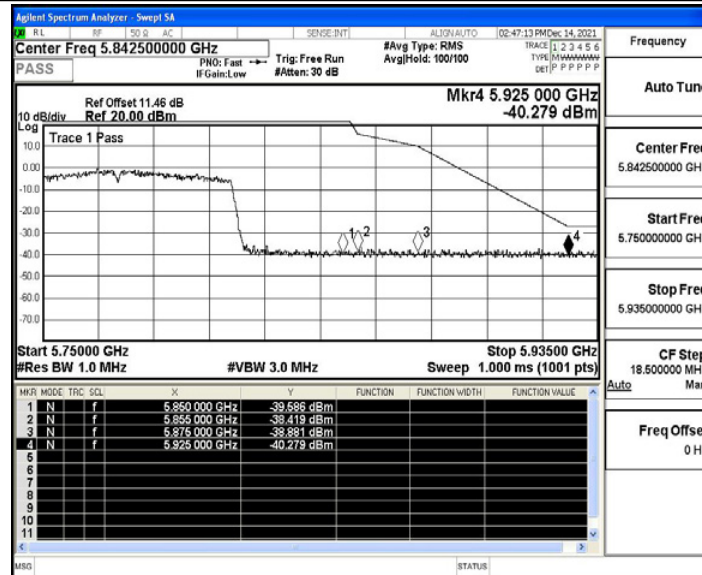




11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak





E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5745	NV	NT	5000	0.870322	20	PASS
			LV	NT	2000	0.348129	20	PASS
			HV	NT	0	0	20	PASS
		5785	NV	NT	-4000	-0.691443	20	PASS
			LV	NT	-6000	-1.037165	20	PASS
			HV	NT	-8000	-1.382887	20	PASS
		5825	NV	NT	-2000	-0.343348	20	PASS
			LV	NT	-2000	-0.343348	20	PASS
			HV	NT	-2000	-0.343348	20	PASS
11AC40SISO	Ant1	5755	NV	NT	-2000	-0.347524	20	PASS
			LV	NT	-2000	-0.347524	20	PASS
			HV	NT	-2000	-0.347524	20	PASS
		5795	NV	NT	-3000	-0.517688	20	PASS
			LV	NT	-2000	-0.345125	20	PASS
			HV	NT	-2000	-0.345125	20	PASS
11AC80SISO	Ant1	5775	NV	NT	-3000	-0.519481	20	PASS
			LV	NT	-2000	-0.34632	20	PASS
			HV	NT	-2000	-0.34632	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5745	NV	-30	-1000	-0.174064	20	PASS
			NV	-20	-3000	-0.522193	20	PASS
			NV	-10	-3000	-0.522193	20	PASS
			NV	0	-4000	-0.696258	20	PASS
			NV	10	-5000	-0.870322	20	PASS
			NV	20	-5000	-0.870322	20	PASS
			NV	30	-6000	-1.044386	20	PASS
			NV	40	-6000	-1.044386	20	PASS
			NV	50	-7000	-1.218451	20	PASS
		5785	NV	-30	-9000	-1.555748	20	PASS
			NV	-20	-10000	-1.728608	20	PASS
			NV	-10	-10000	-1.728608	20	PASS
			NV	0	-10000	-1.728608	20	PASS
			NV	10	-11000	-1.901469	20	PASS
			NV	20	-11000	-1.901469	20	PASS



			NV	20	-11000	-1.901469	20	PASS
			NV	30	-11000	-1.901469	20	PASS
			NV	40	-12000	-2.07433	20	PASS
			NV	50	-12000	-2.07433	20	PASS
		5825	NV	-30	-2000	-0.343348	20	PASS
			NV	-20	-2000	-0.343348	20	PASS
			NV	-10	-2000	-0.343348	20	PASS
			NV	0	-2000	-0.343348	20	PASS
			NV	10	-2000	-0.343348	20	PASS
			NV	20	-2000	-0.343348	20	PASS
			NV	30	-2000	-0.343348	20	PASS
			NV	40	-2000	-0.343348	20	PASS
			NV	50	-2000	-0.343348	20	PASS
11AC40SIS O	Ant1	5755	NV	-30	-2000	-0.347524	20	PASS
			NV	-20	-2000	-0.347524	20	PASS
			NV	-10	-2000	-0.347524	20	PASS
			NV	0	-2000	-0.347524	20	PASS
			NV	10	-2000	-0.347524	20	PASS
			NV	20	-2000	-0.347524	20	PASS
			NV	30	-2000	-0.347524	20	PASS
			NV	40	-2000	-0.347524	20	PASS
		5795	NV	50	-2000	-0.347524	20	PASS
			NV	-30	-3000	-0.517688	20	PASS
			NV	-20	-3000	-0.517688	20	PASS
			NV	-10	-3000	-0.517688	20	PASS
			NV	0	-3000	-0.517688	20	PASS
			NV	10	-3000	-0.517688	20	PASS
			NV	20	-3000	-0.517688	20	PASS
			NV	30	-3000	-0.517688	20	PASS
11AC80SIS O	Ant1	5775	NV	40	-3000	-0.517688	20	PASS
			NV	50	-3000	-0.517688	20	PASS
			NV	-30	-3000	-0.519481	20	PASS
			NV	-20	-3000	-0.519481	20	PASS
			NV	-10	-3000	-0.519481	20	PASS
			NV	0	-3000	-0.519481	20	PASS
			NV	10	-3000	-0.519481	20	PASS
			NV	20	-3000	-0.519481	20	PASS
			NV	30	-3000	-0.519481	20	PASS

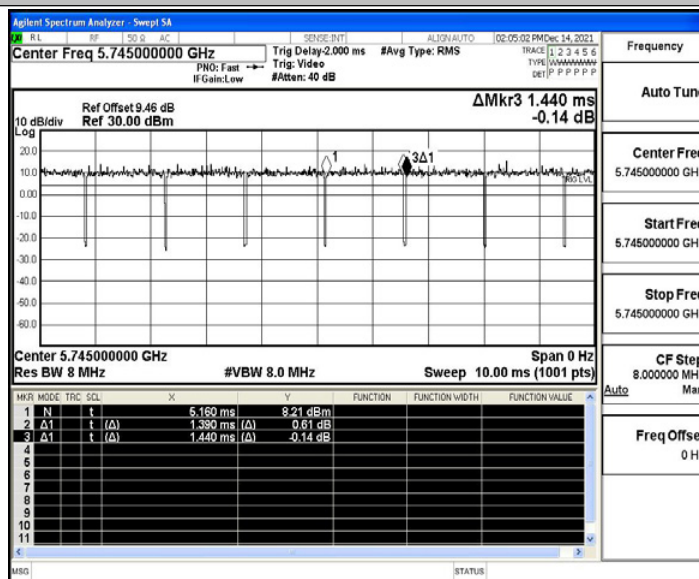


E.6 Duty Cycle

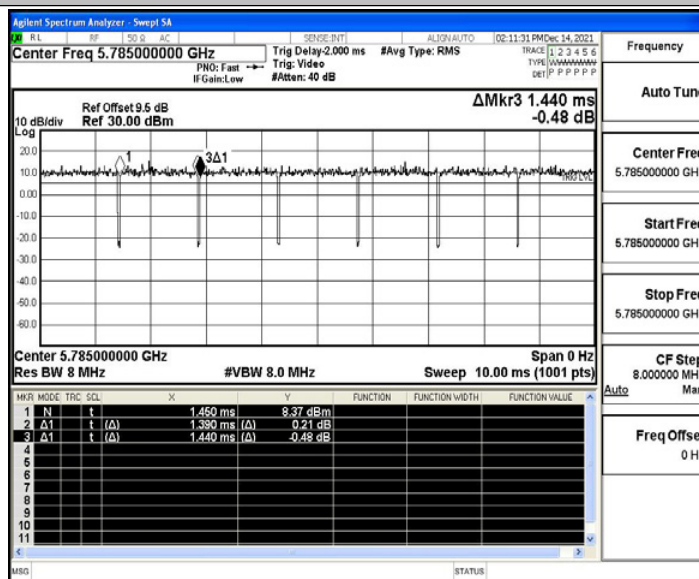
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[KHz]	Verdict
11A	Ant1	5745	1.39	1.44	96.53	0.72	PASS
		5785	1.39	1.44	96.53	0.72	PASS
		5825	1.39	1.44	96.53	0.72	PASS
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.77	PASS
		5785	1.30	1.35	96.30	0.77	PASS
		5825	1.30	1.35	96.30	0.77	PASS
11N40SISO	Ant1	5755	0.64	0.69	92.75	1.56	PASS
		5795	0.64	0.69	92.75	1.56	PASS
11AC20SISO	Ant1	5745	1.31	1.36	96.32	0.76	PASS
		5785	1.31	1.36	96.32	0.76	PASS
		5825	1.31	1.36	96.32	0.76	PASS
11AC40SISO	Ant1	5755	0.65	0.70	92.86	1.54	PASS
		5795	0.65	0.70	92.86	1.54	PASS
11AC80SISO	Ant1	5775	0.32	0.37	86.49	3.13	PASS

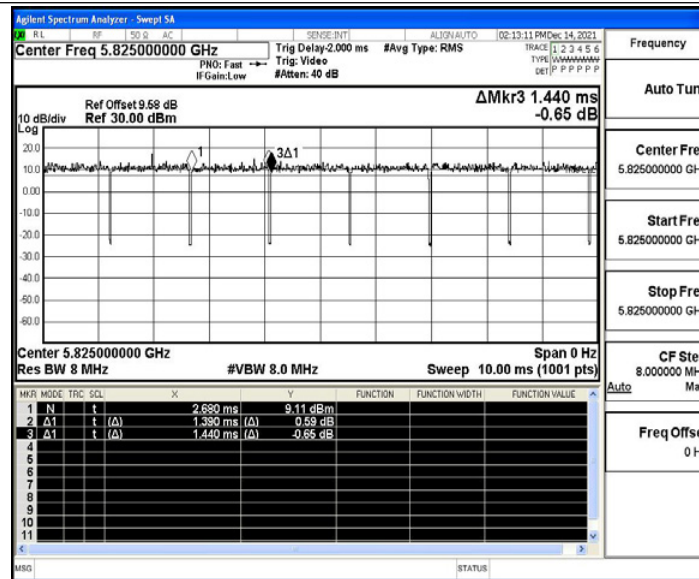
11A Ant1 5745



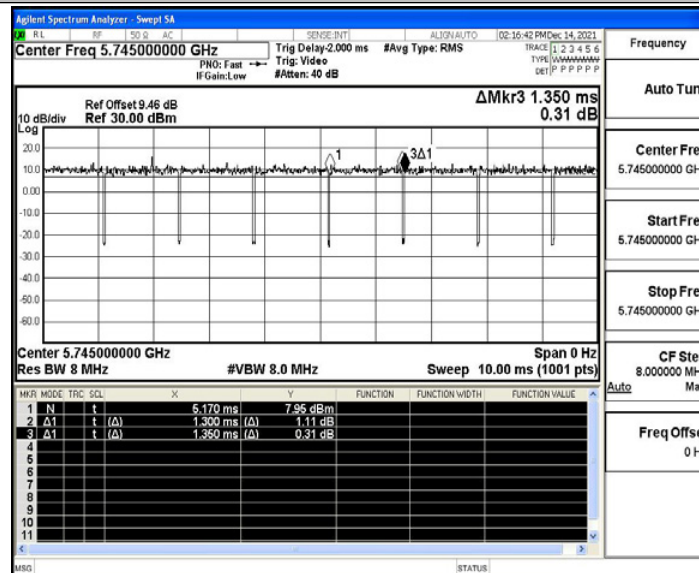
11A Ant1 5785



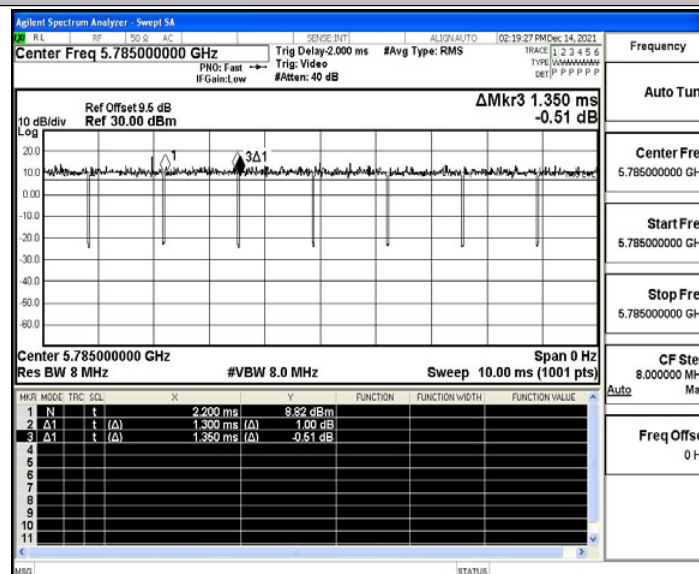
11A Ant1 5825



11N20SISO_Ant1_5745

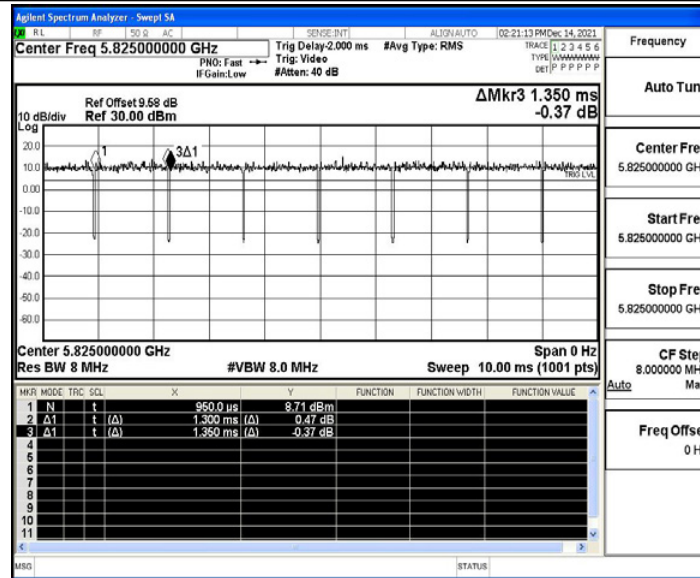


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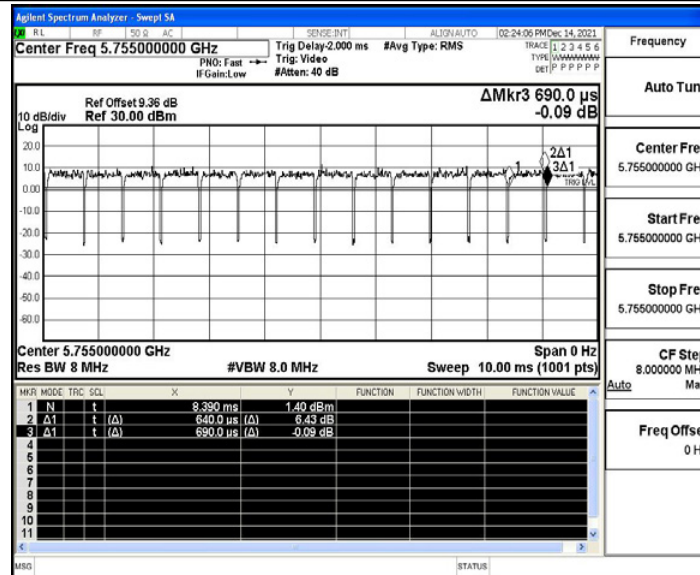




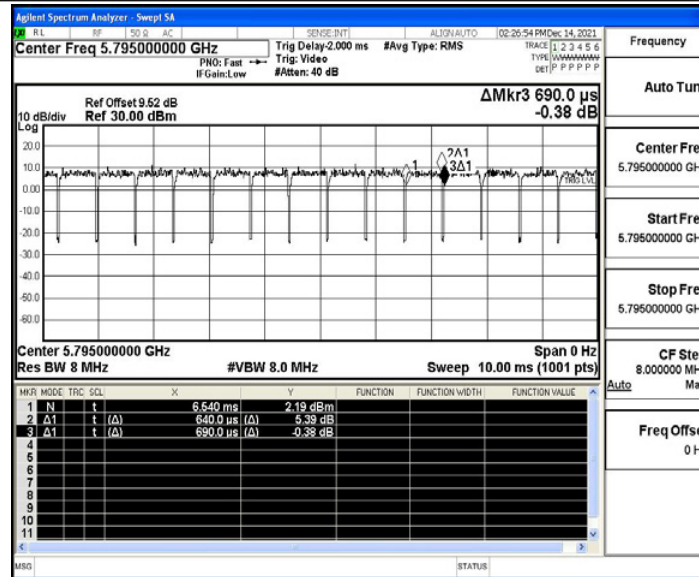
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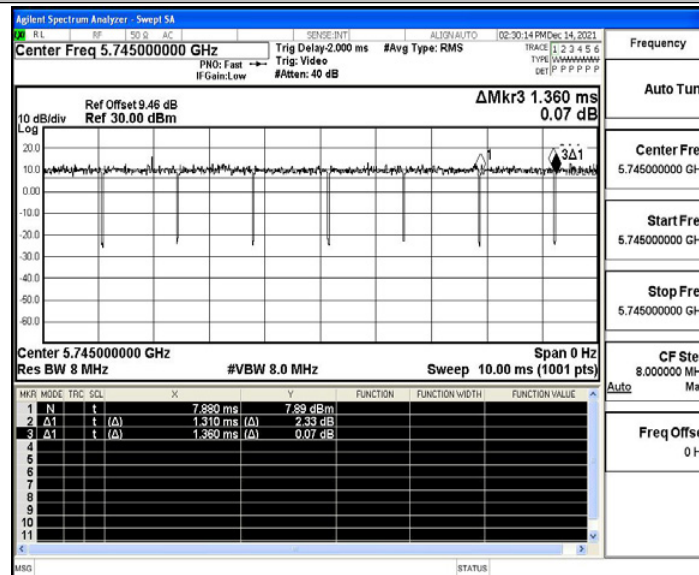
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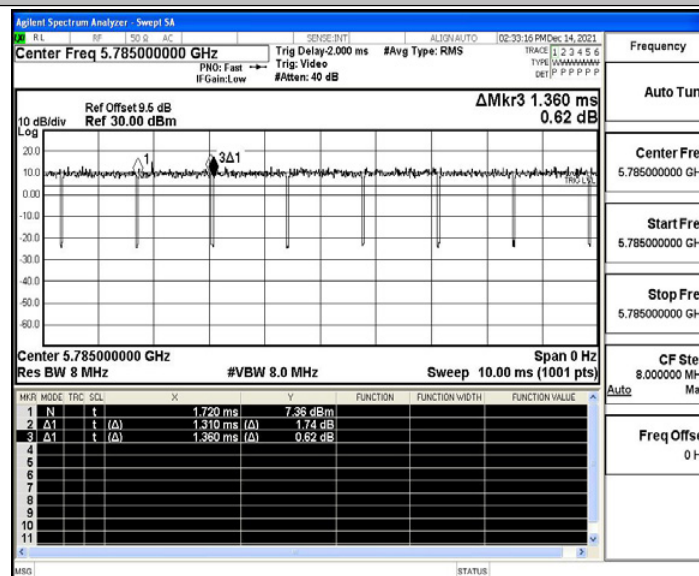
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11AC20SISO_Ant1_5745

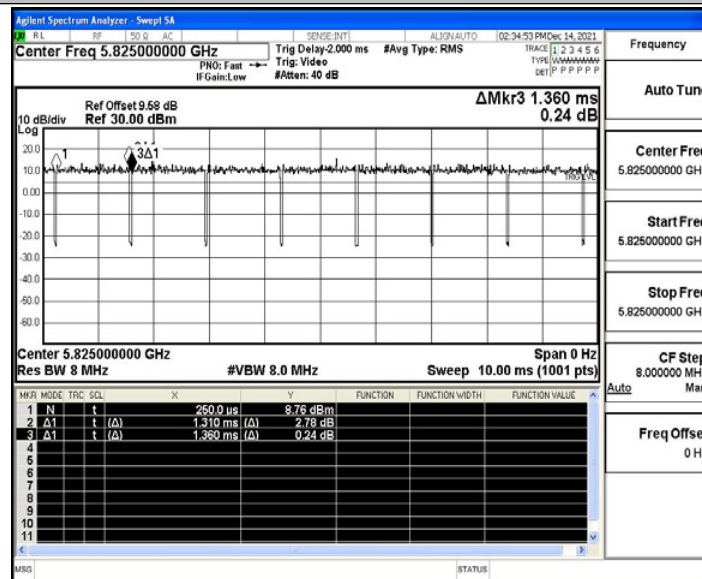


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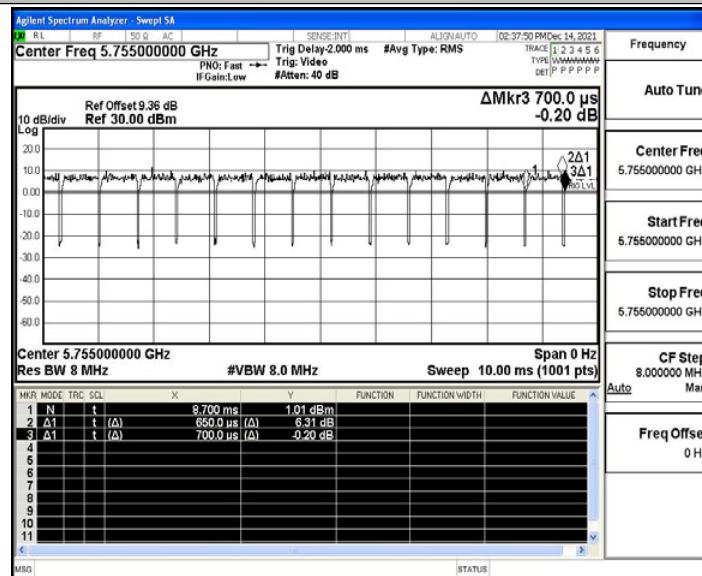




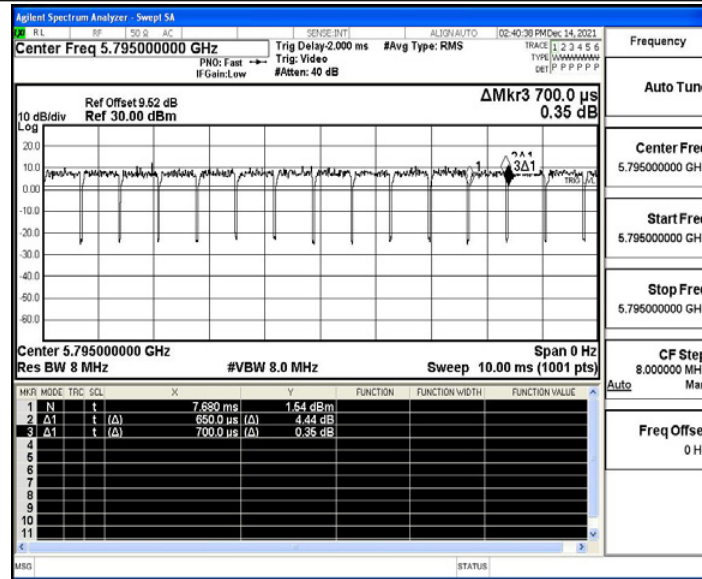
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

