



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Tablet

Test Model: OTTTAB1

Environmental Conditions

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



E.1 Min emission bandwidth

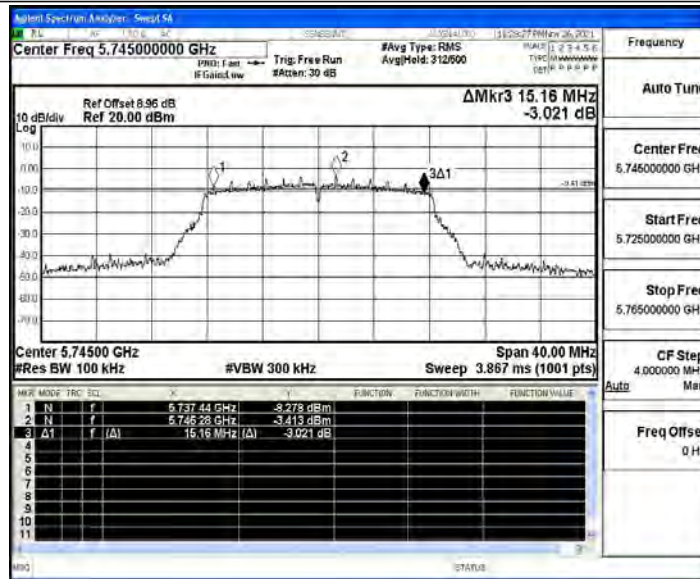
Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.160	5737.440	5752.600	0.5	PASS
		5785	15.160	5777.400	5792.560	0.5	PASS
		5825	15.160	5817.440	5832.600	0.5	PASS
11N20SISO	Ant1	5745	15.160	5737.440	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	35.440	5737.160	5772.600	0.5	PASS
		5795	35.200	5777.400	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	15.160	5737.440	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.200	5817.400	5832.600	0.5	PASS
11AC40SISO	Ant1	5755	34.000	5738.600	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

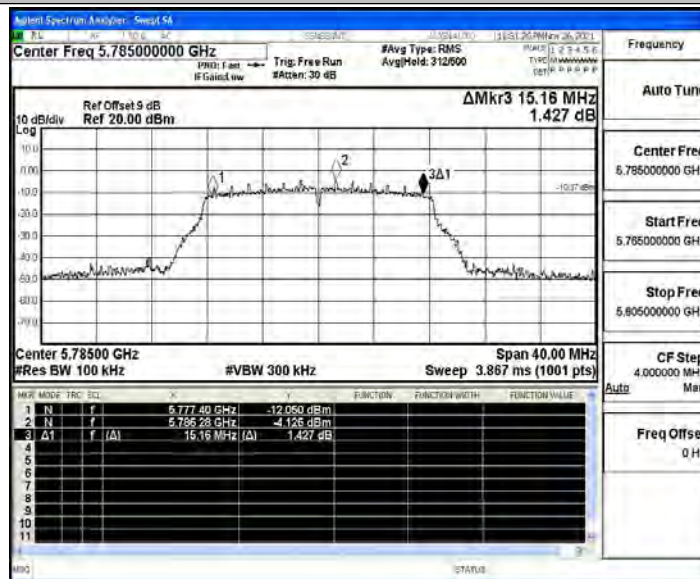


Test Graphs

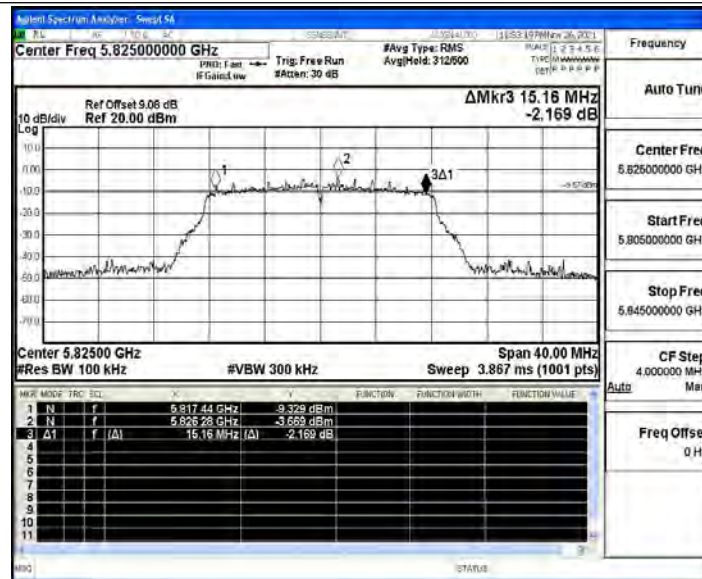
11A_Ant1_5745



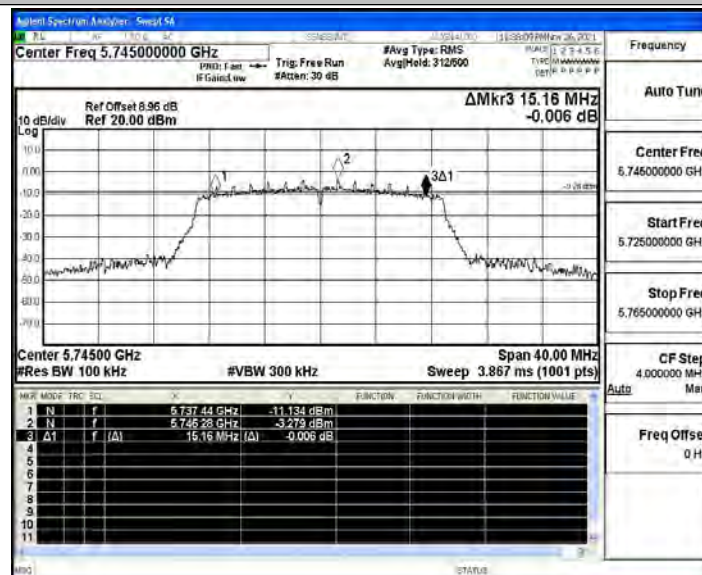
11A_Ant1_5785



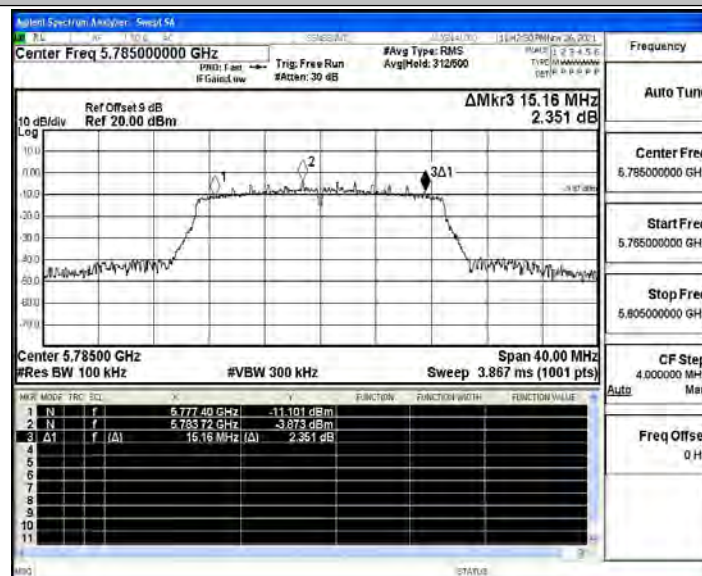
11A_Ant1_5825



11N20SISO_Ant1_5745

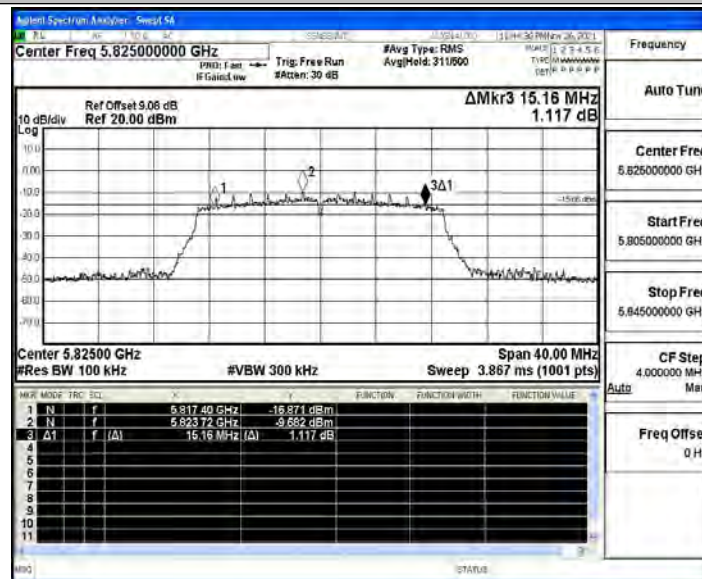


11N20SISO_Ant1_5785

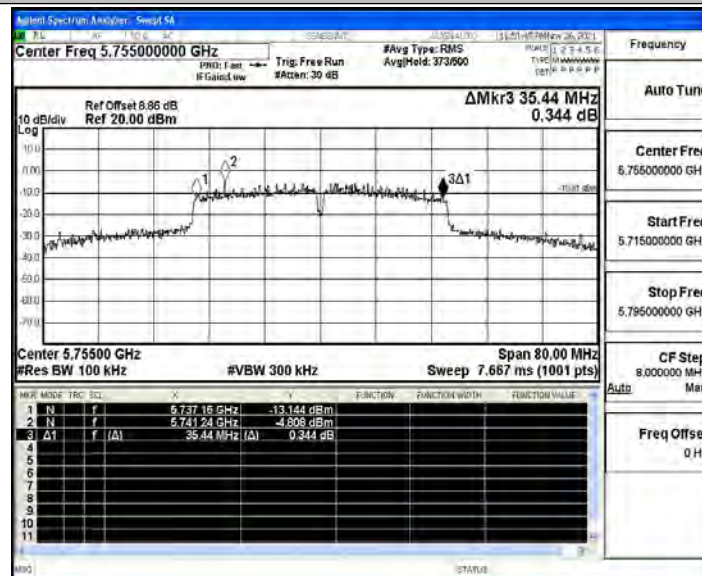




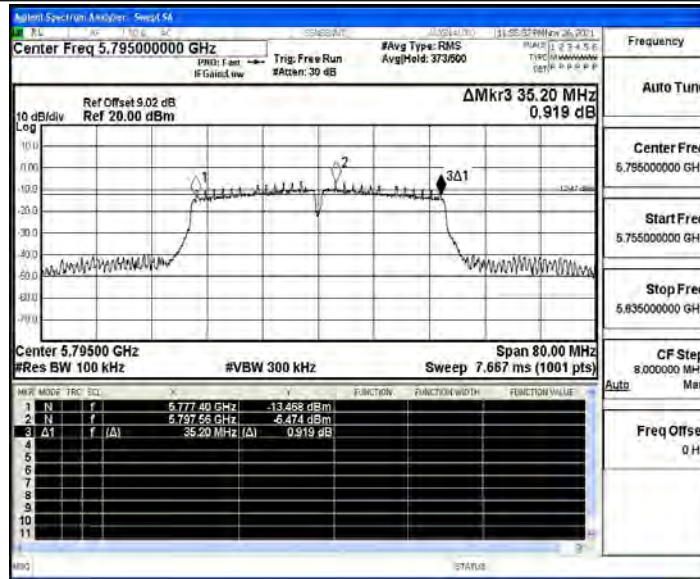
11N20SISO_Ant1_5825



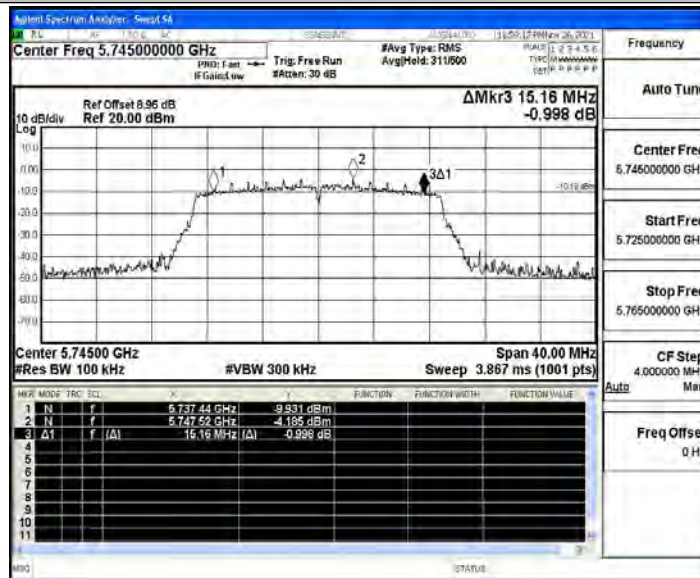
11N40SISO_Ant1_5755



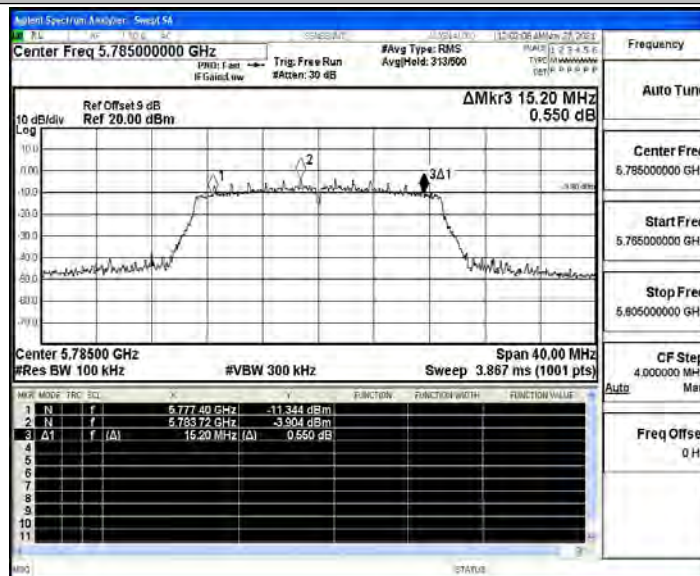
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

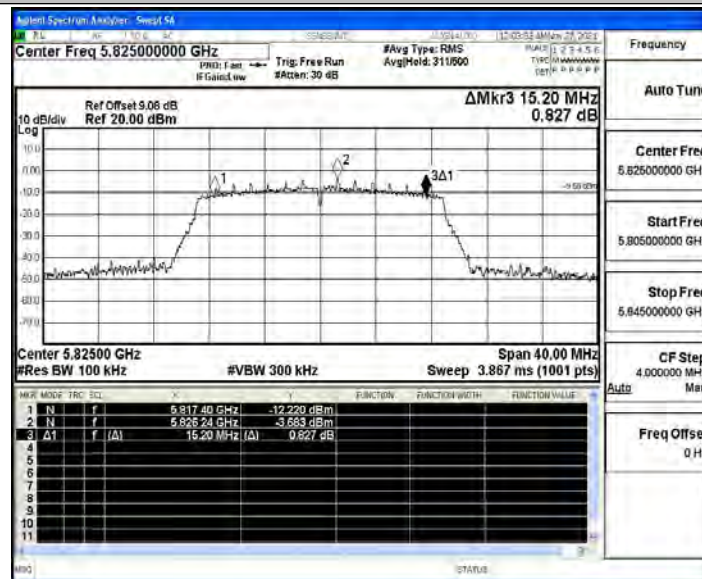


11AC20SISO_Ant1_5785

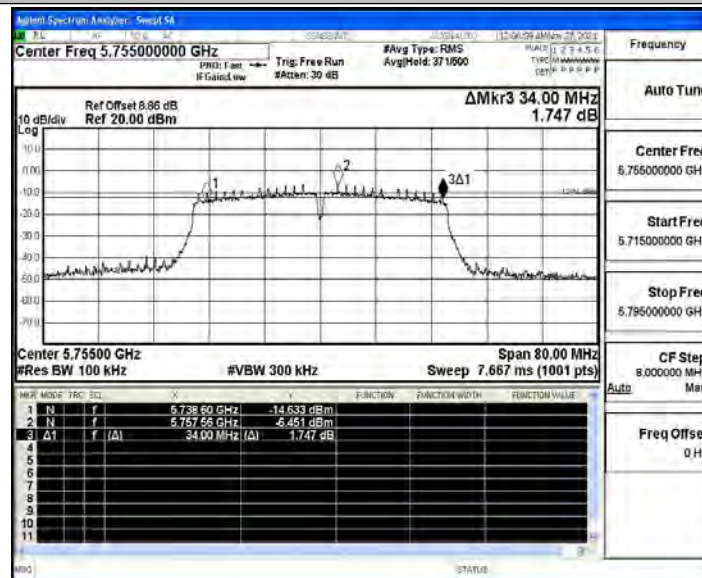




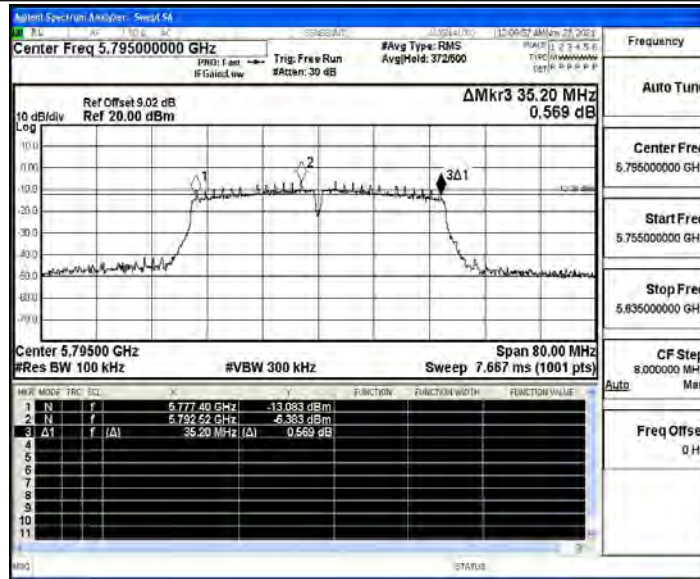
11AC20SISO_Ant1_5825



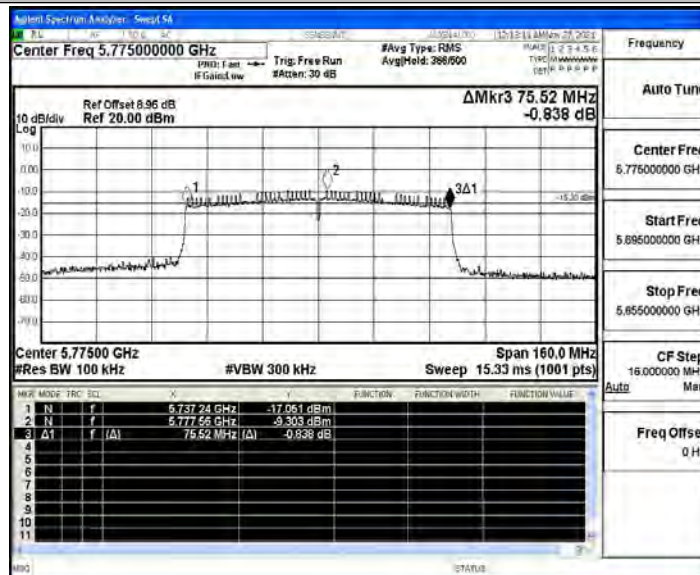
11AC40SISO_Ant1_5755



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	6.71	≤30	PASS
		5785	5.08	≤30	PASS
		5825	5.55	≤30	PASS
11N20SISO	Ant1	5745	5.66	≤30	PASS
		5785	5.56	≤30	PASS
		5825	5.48	≤30	PASS
11N40SISO	Ant1	5755	5.78	≤30	PASS
		5795	5.96	≤30	PASS
11AC20SISO	Ant1	5745	5.80	≤30	PASS
		5785	5.65	≤30	PASS
		5825	5.39	≤30	PASS
11AC40SISO	Ant1	5755	5.93	≤30	PASS
		5795	5.94	≤30	PASS
11AC80SISO	Ant1	5775	6.32	≤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]	Total Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-5.96	-8.18	≤30	PASS
		5785	-6.75	-8.97	≤30	PASS
		5825	-6.47	-8.69	≤30	PASS
11N20SISO	Ant1	5745	-6.86	-9.08	≤30	PASS
		5785	-6.41	-8.63	≤30	PASS
		5825	-7.14	-9.36	≤30	PASS
11N40SISO	Ant1	5755	-9.33	-11.55	≤30	PASS
		5795	-9.13	-11.35	≤30	PASS
11AC20SISO	Ant1	5745	-6.4	-8.62	≤30	PASS
		5785	-6.59	-8.81	≤30	PASS
		5825	-6.76	-8.98	≤30	PASS
11AC40SISO	Ant1	5755	-9.22	-11.44	≤30	PASS
		5795	-9.03	-11.25	≤30	PASS
11AC80SISO	Ant1	5775	-12.22	-14.44	≤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.

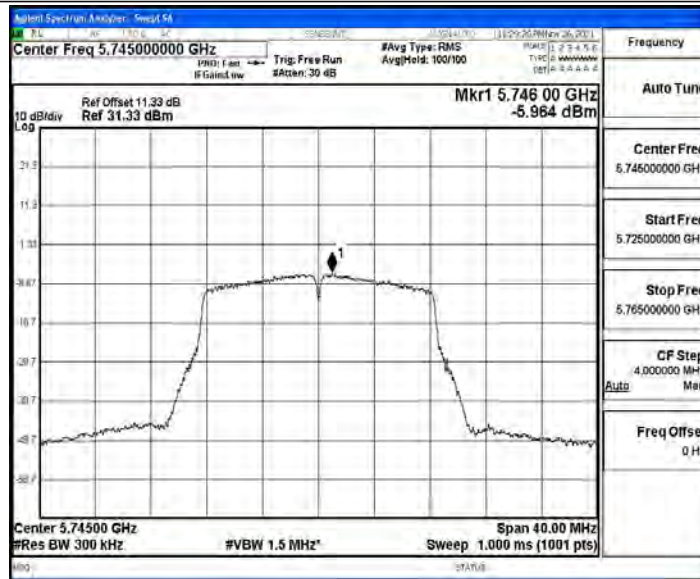
3.Exchange rate of RBW = $10 \cdot \log_{10}(300\text{KHz} / \text{RBW at measurement}) \approx -2.22[\text{dB}]$

where Reference bandwidth = 500 KHz

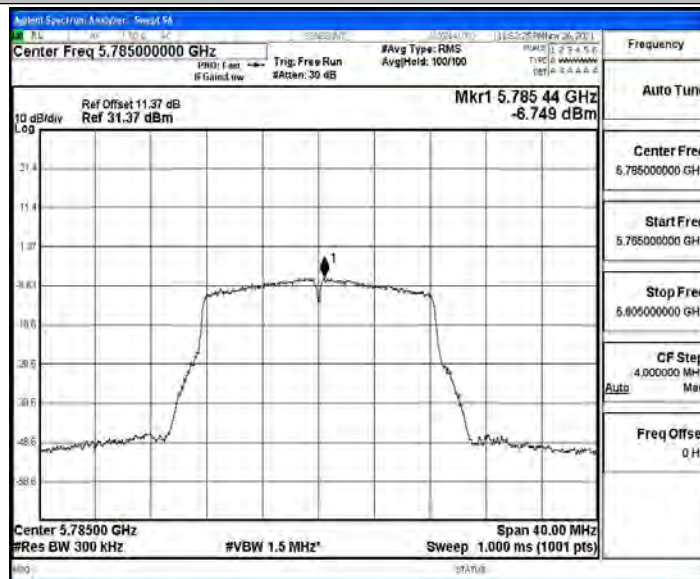


Test Graphs

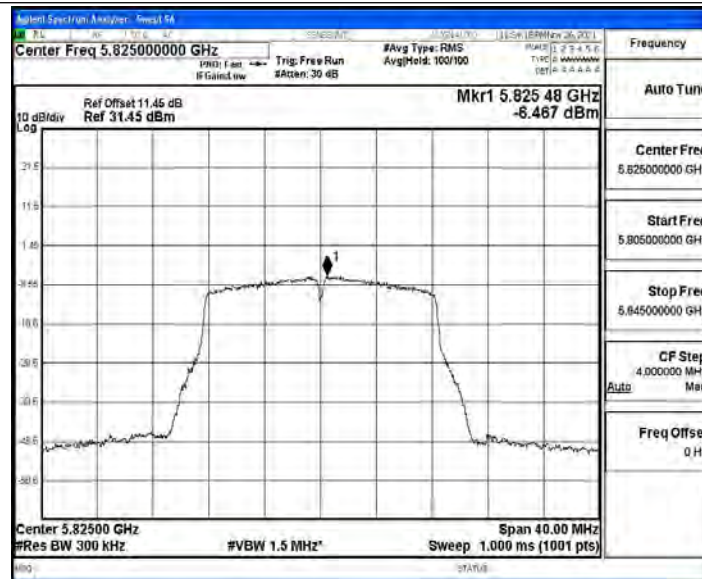
11A_Ant1_5745



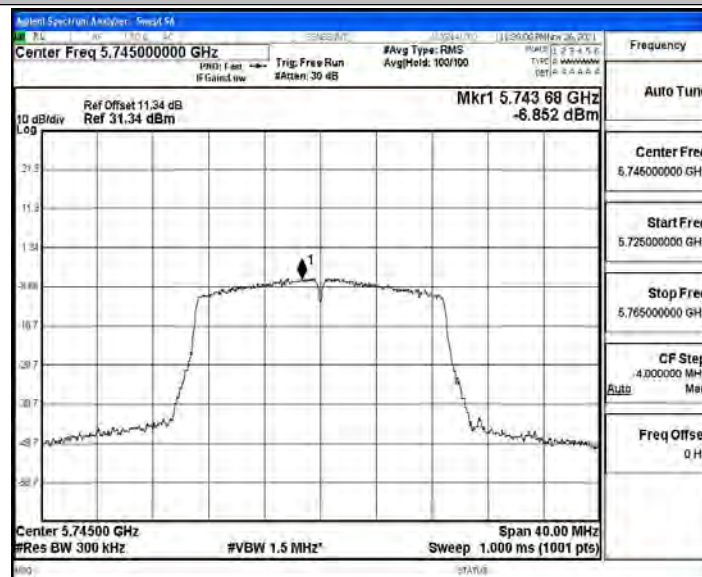
11A_Ant1_5785



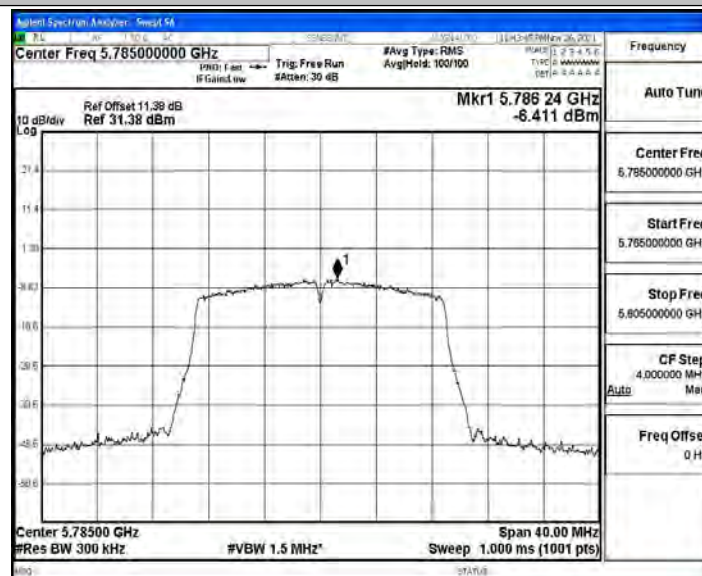
11A_Ant1_5825



11N20SISO_Ant1_5745

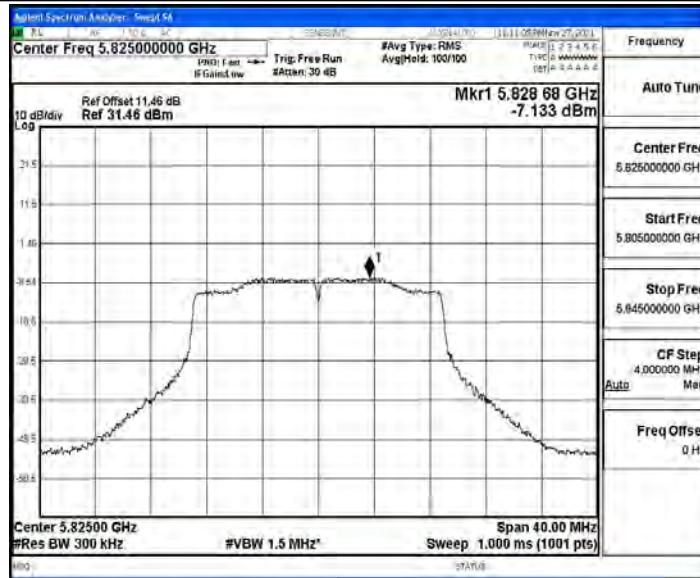


11N20SISO_Ant1_5785

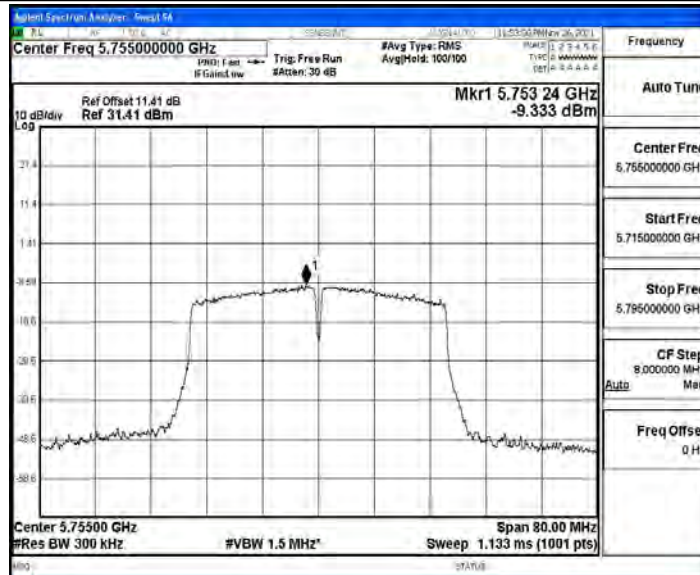




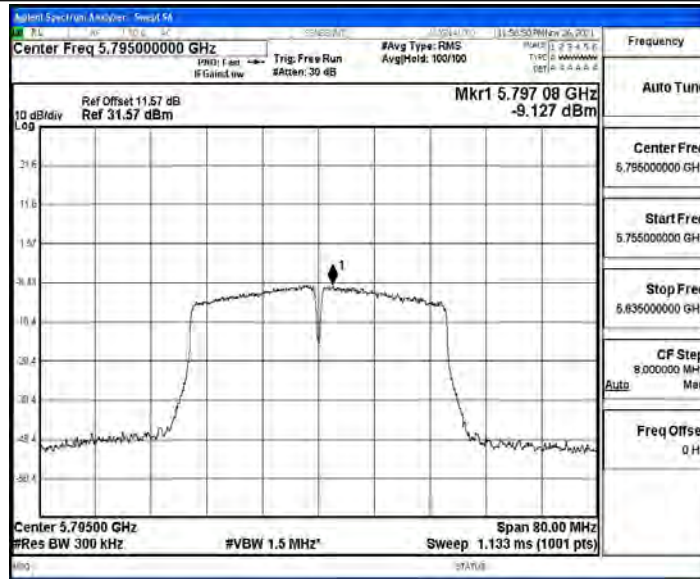
11N20SISO_Ant1_5825



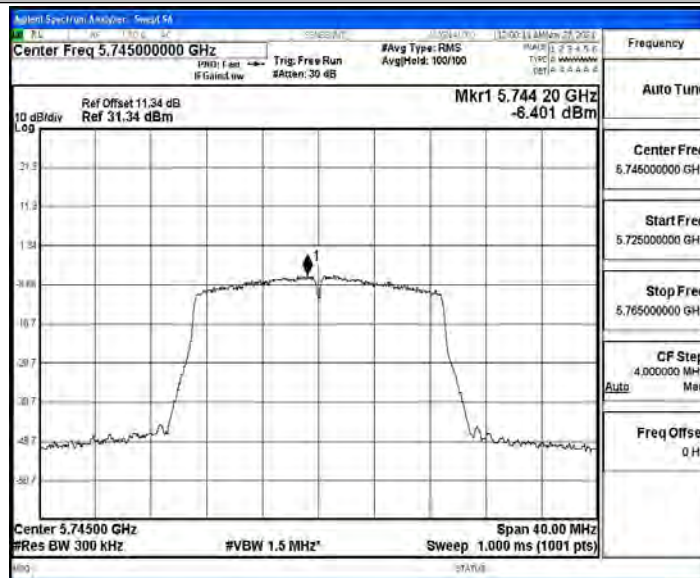
11N40SISO_Ant1_5755



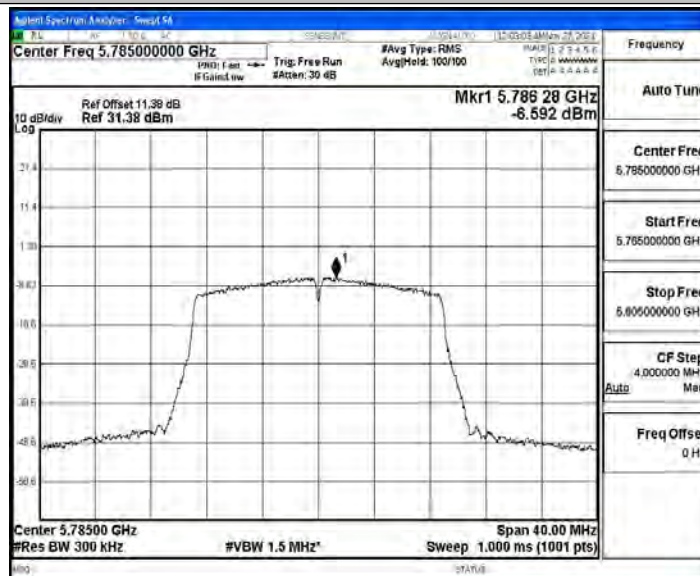
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

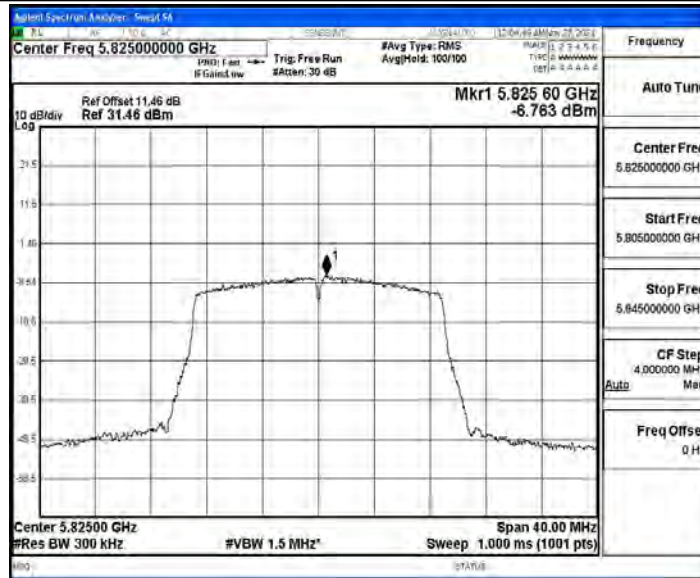


11AC20SISO_Ant1_5785

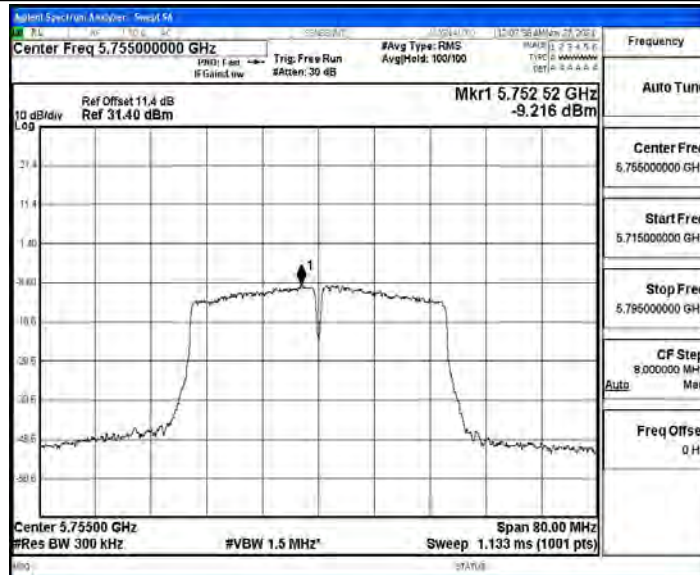




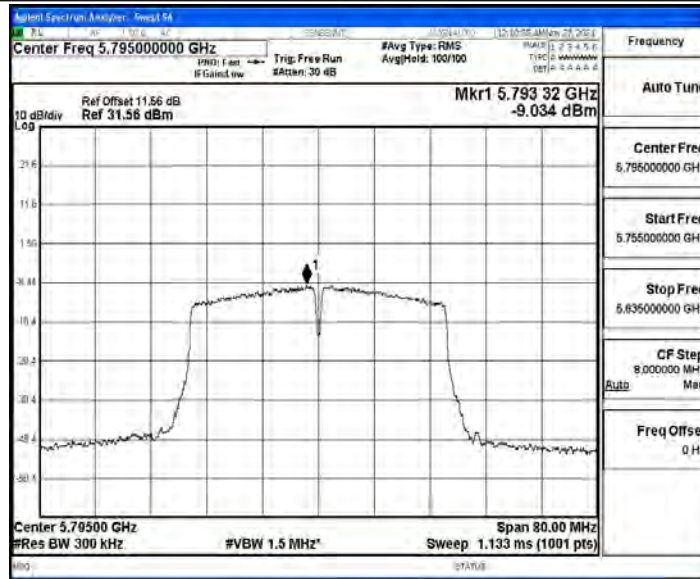
11AC20SISO_Ant1_5825



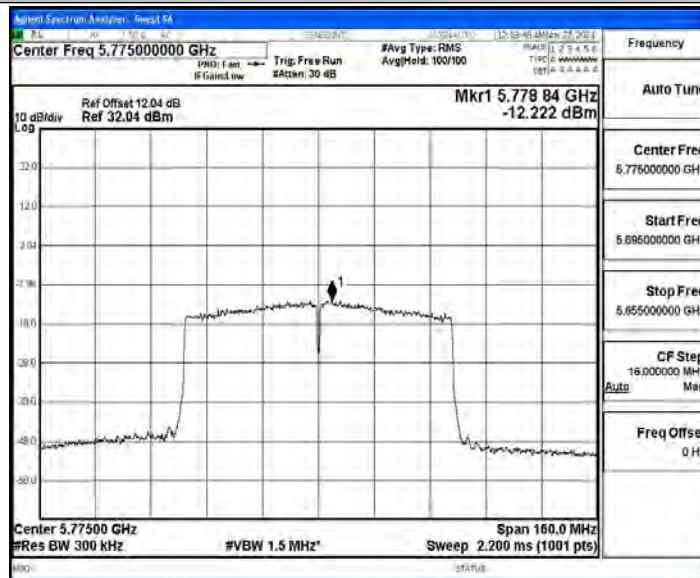
11AC40SISO_Ant1_5755



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	-40.662	≤-27.00	---	---	PASS
				Peak	5700.000	-39.79	≤10.00	---	---	PASS
				Peak	5720.000	-37.81	≤15.60	---	---	PASS
				Peak	5725.000	-32.12	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.129	≤15.60	---	---	PASS
				Peak	5855.000	-40.24	≤27.00	---	---	PASS
				Peak	5875.000	-40.54	≤15.60	---	---	PASS
				Peak	5925.000	-39.77	≤10.00	---	---	PASS
11N20SI SO	Ant1	Low	5745	Peak	5650.000	-40.222	≤-27.00	---	---	PASS
				Peak	5700.000	-39.9	≤10.00	---	---	PASS
				Peak	5720.000	-38.37	≤15.60	---	---	PASS
				Peak	5725.000	-35.34	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.752	≤15.60	---	---	PASS
				Peak	5855.000	-40.46	≤27.00	---	---	PASS
				Peak	5875.000	-39.81	≤15.60	---	---	PASS
				Peak	5925.000	-40.14	≤10.00	---	---	PASS
11N40SI SO	Ant1	Low	5755	Peak	5650.000	-40.18	≤-27.00	---	---	PASS
				Peak	5700.000	-39.79	≤10.00	---	---	PASS
				Peak	5720.000	-35.21	≤15.60	---	---	PASS
				Peak	5725.000	-35.58	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-39.709	≤15.60	---	---	PASS
				Peak	5855.000	-39.77	≤27.00	---	---	PASS
				Peak	5875.000	-39.46	≤15.60	---	---	PASS
				Peak	5925.000	-40.64	≤10.00	---	---	PASS
11AC20S ISO	Ant1	Low	5745	Peak	5650.000	-40.353	≤-27.00	---	---	PASS
				Peak	5700.000	-40.74	≤10.00	---	---	PASS
				Peak	5720.000	-39.56	≤15.60	---	---	PASS
				Peak	5725.000	-36.51	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.973	≤15.60	---	---	PASS
				Peak	5855.000	-38.49	≤27.00	---	---	PASS
				Peak	5875.000	-38.75	≤15.60	---	---	PASS
				Peak	5925.000	-39.5	≤10.00	---	---	PASS
11AC40S ISO	Ant1	Low	5755	Peak	5650.000	-41.247	≤-27.00	---	---	PASS
				Peak	5700.000	-38.54	≤10.00	---	---	PASS
				Peak	5720.000	-35.98	≤15.60	---	---	PASS
				Peak	5725.000	-36.3	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-39.424	≤15.60	---	---	PASS



11AC80S ISO	Ant1	Low	5775	Peak	5855.000	-40.17	≤27.00	---	---	PASS
				Peak	5875.000	-39.98	≤15.60	---	---	PASS
				Peak	5925.000	-40.73	≤10.00	- --	- --	PASS
				Peak	5650.000	-39.445	≤-27.00	---	---	PASS
		High	5775	Peak	5700.000	-39.38	≤10.00	---	---	PASS
				Peak	5720.000	-36.85	≤15.60	---	---	PASS
				Peak	5725.000	-37.03	≤27.00	- --	- --	PASS
				Peak	5850.000	-39.299	≤15.60	---	---	PASS
				Peak	5855.000	-39.12	≤27.00	---	---	PASS
				Peak	5875.000	-40	≤15.60	---	---	PASS
				Peak	5925.000	-40.44	≤10.00	- --	- --	PASS

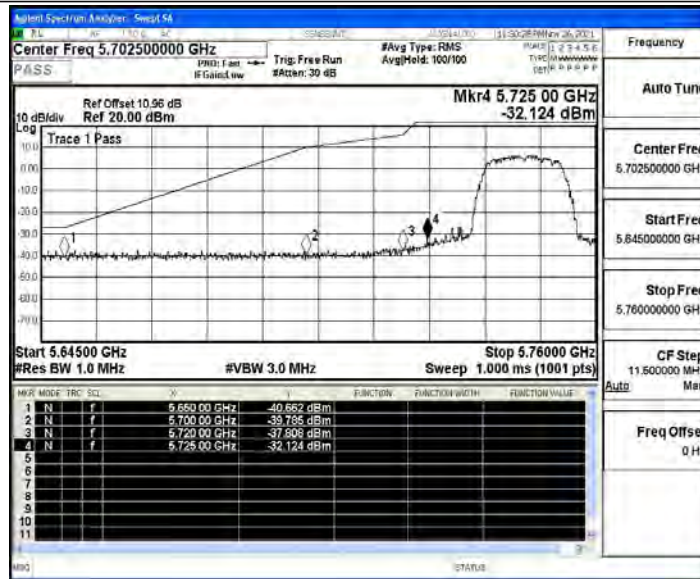
Note:

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.

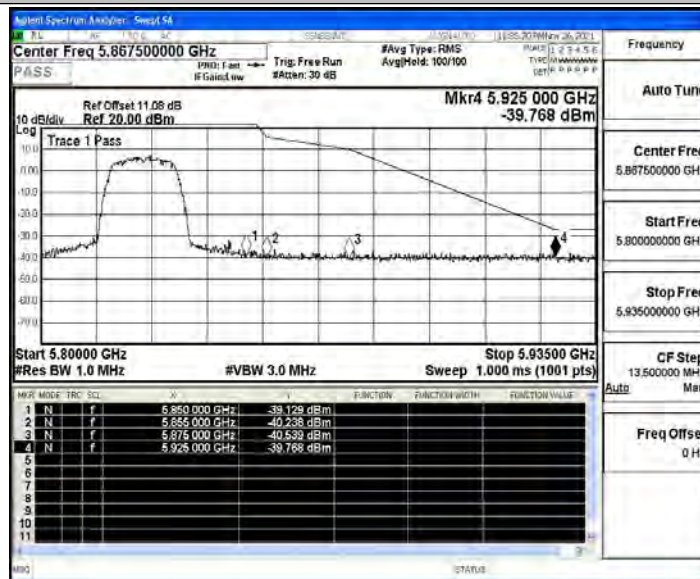


Test Graphs

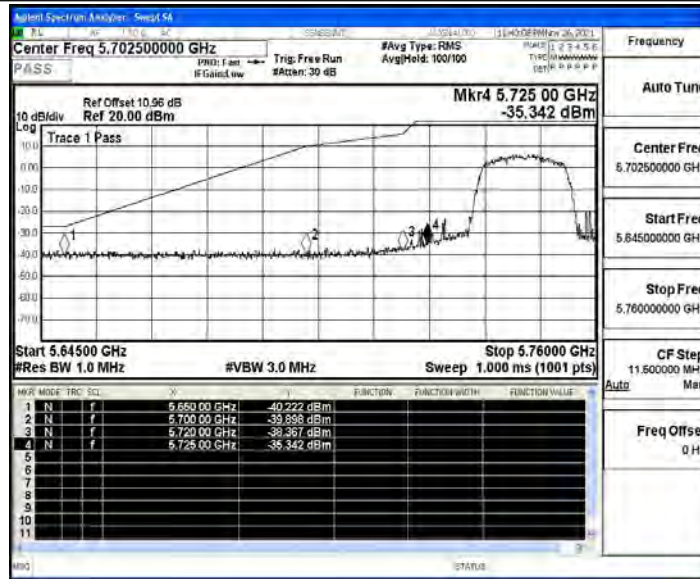
11A_Ant1_Low_5745_Peak



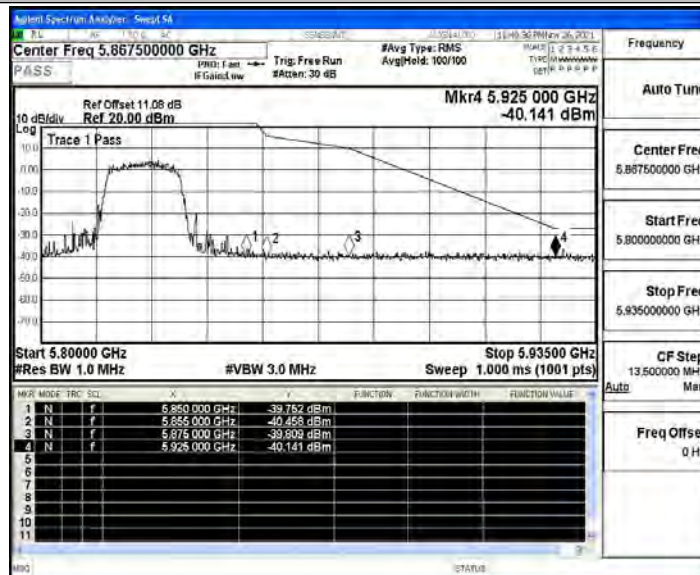
11A_Ant1_High_5825_Peak



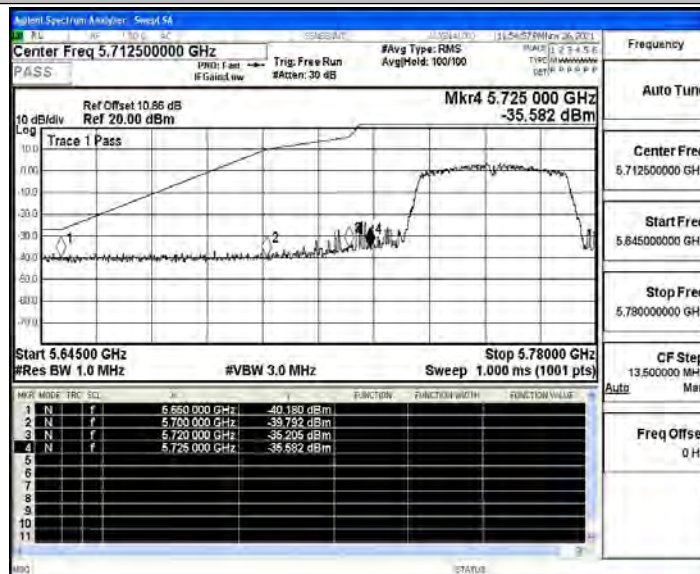
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak

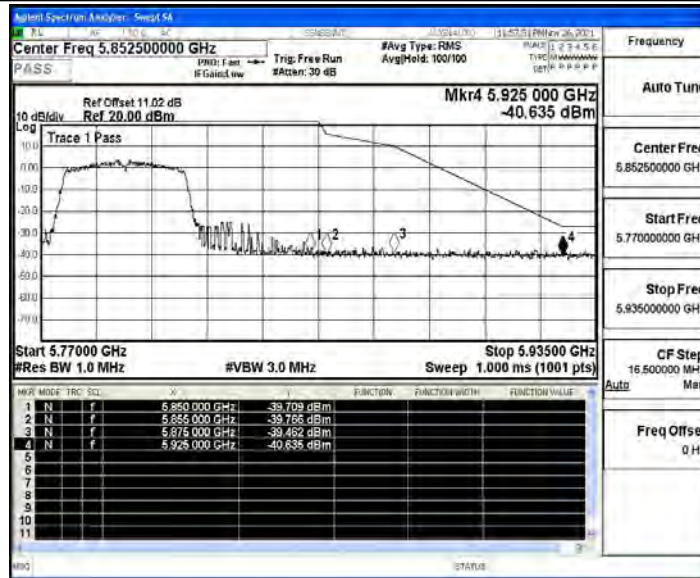


11N40SISO_Ant1_Low_5755_Peak

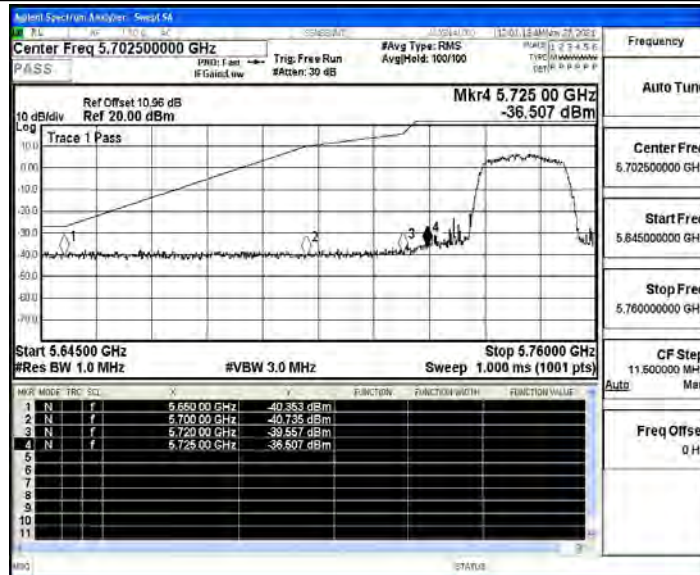




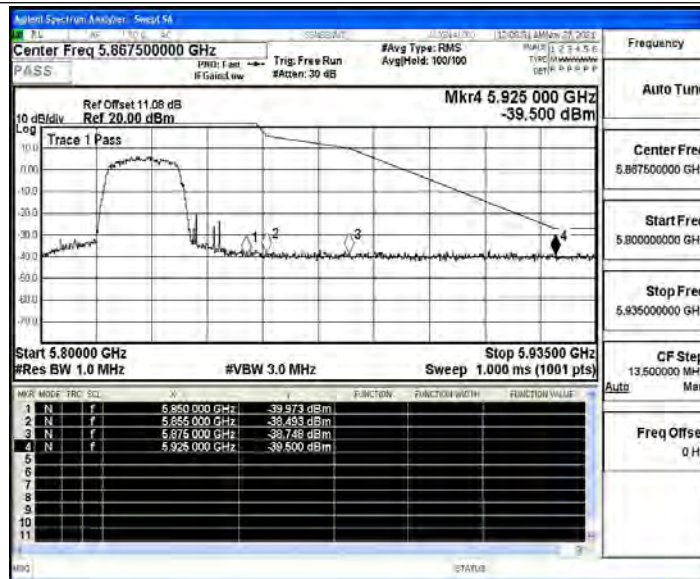
11N40SISO_Ant1_High_5795_Peak



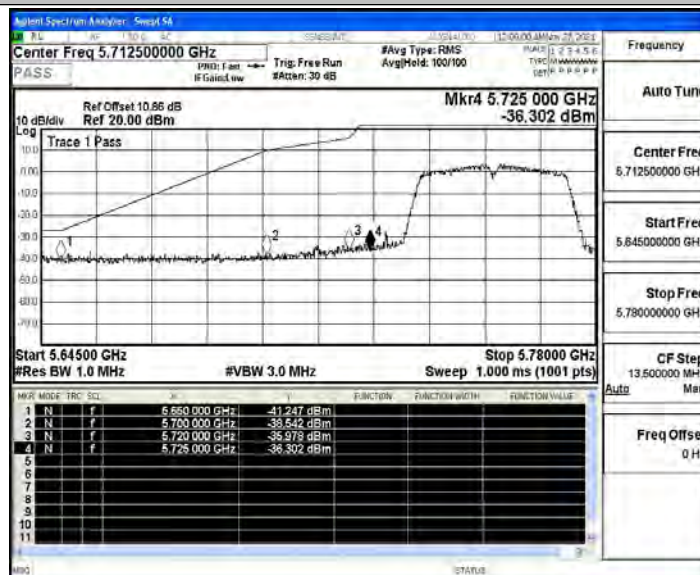
11AC20SISO_Ant1_Low_5745_Peak



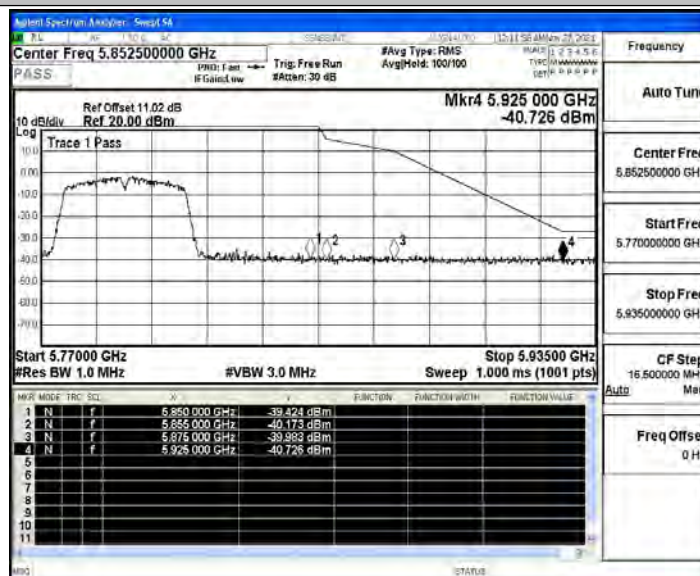
11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

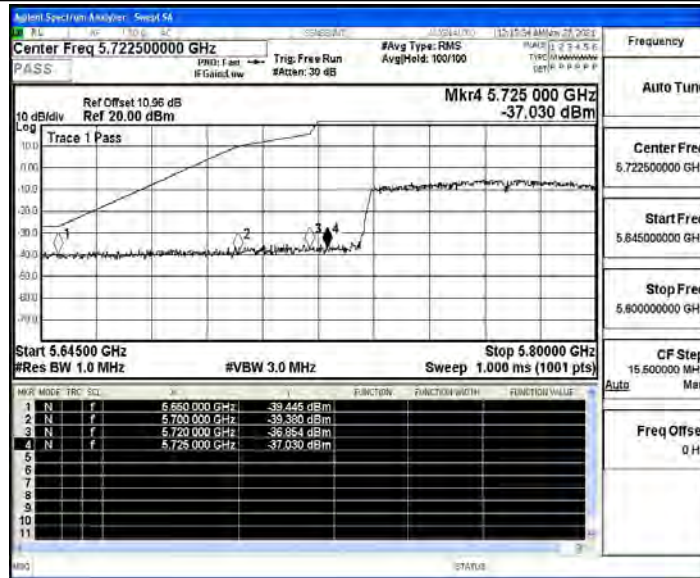


11AC40SISO_Ant1_High_5795_Peak

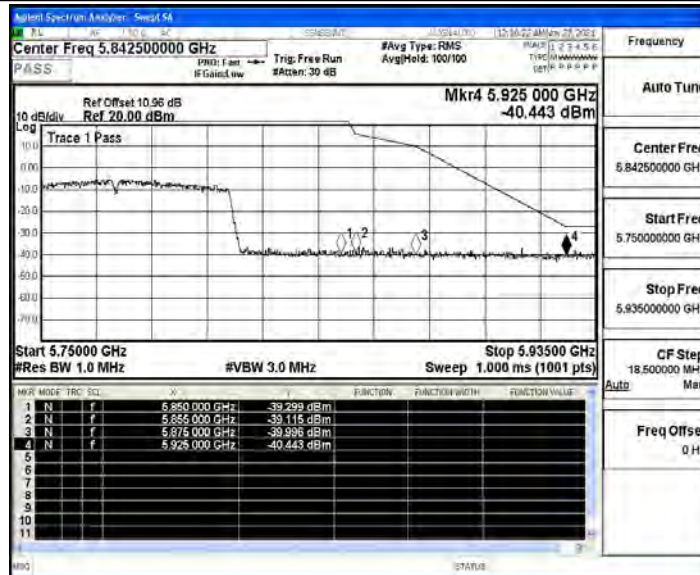




11AC80SISO_Ant1_Low_5775_Peak



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	-39000	-6.788512	20	PASS
			LV	NT	-38000	-6.614447	20	PASS
			HV	NT	-38000	-6.614447	20	PASS
		5785	NV	NT	-40000	-6.914434	20	PASS
			LV	NT	-39000	-6.741573	20	PASS
			HV	NT	-39000	-6.741573	20	PASS
		5825	NV	NT	-40000	-6.866953	20	PASS
			LV	NT	-40000	-6.866953	20	PASS
			HV	NT	-40000	-6.866953	20	PASS
11AC40SISO	Ant1	5755	NV	NT	-40000	-6.950478	20	PASS
			LV	NT	-40000	-6.950478	20	PASS
			HV	NT	-40000	-6.950478	20	PASS
		5795	NV	NT	-40000	-6.902502	20	PASS
			LV	NT	-40000	-6.902502	20	PASS
			HV	NT	-40000	-6.902502	20	PASS
11AC80SISO	Ant1	5775	NV	NT	-40000	-6.926407	20	PASS
			LV	NT	-40000	-6.926407	20	PASS
			HV	NT	-40000	-6.926407	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5745	NV	-30	-38000	-6.614447	20	PASS
			NV	-20	-38000	-6.614447	20	PASS
			NV	-10	-38000	-6.614447	20	PASS
			NV	0	-38000	-6.614447	20	PASS
			NV	10	-38000	-6.614447	20	PASS
			NV	20	-39000	-6.788512	20	PASS
			NV	30	-39000	-6.788512	20	PASS
			NV	40	-39000	-6.788512	20	PASS
			NV	50	-39000	-6.788512	20	PASS
		5785	NV	-30	-39000	-6.741573	20	PASS
			NV	-20	-39000	-6.741573	20	PASS
			NV	-10	-40000	-6.914434	20	PASS
			NV	0	-40000	-6.914434	20	PASS
			NV	10	-40000	-6.914434	20	PASS
			NV					



			NV	20	-40000	-6.914434	20	PASS
			NV	30	-40000	-6.914434	20	PASS
			NV	40	-40000	-6.914434	20	PASS
			NV	50	-40000	-6.914434	20	PASS
		5825	NV	-30	-41000	-7.038627	20	PASS
			NV	-20	-40000	-6.866953	20	PASS
			NV	-10	-40000	-6.866953	20	PASS
			NV	0	-41000	-7.038627	20	PASS
			NV	10	-40000	-6.866953	20	PASS
			NV	20	-40000	-6.866953	20	PASS
			NV	30	-40000	-6.866953	20	PASS
			NV	40	-40000	-6.866953	20	PASS
			NV	50	-40000	-6.866953	20	PASS
11AC40SIS O	Ant1	5755	NV	-30	-40000	-6.950478	20	PASS
			NV	-20	-40000	-6.950478	20	PASS
			NV	-10	-40000	-6.950478	20	PASS
			NV	0	-40000	-6.950478	20	PASS
			NV	10	-40000	-6.950478	20	PASS
			NV	20	-40000	-6.950478	20	PASS
			NV	30	-40000	-6.950478	20	PASS
			NV	40	-40000	-6.950478	20	PASS
			NV	50	-40000	-6.950478	20	PASS
		5795	NV	-30	-40000	-6.902502	20	PASS
			NV	-20	-40000	-6.902502	20	PASS
			NV	-10	-40000	-6.902502	20	PASS
			NV	0	-40000	-6.902502	20	PASS
			NV	10	-40000	-6.902502	20	PASS
			NV	20	-40000	-6.902502	20	PASS
			NV	30	-40000	-6.902502	20	PASS
			NV	40	-40000	-6.902502	20	PASS
			NV	50	-40000	-6.902502	20	PASS
11AC80SIS O	Ant1	5775	NV	-30	-40000	-6.926407	20	PASS
			NV	-20	-40000	-6.926407	20	PASS
			NV	-10	-40000	-6.926407	20	PASS
			NV	0	-40000	-6.926407	20	PASS
			NV	10	-40000	-6.926407	20	PASS
			NV	20	-40000	-6.926407	20	PASS
			NV	30	-40000	-6.926407	20	PASS
			NV	40	-40000	-6.926407	20	PASS
			NV	50	-40000	-6.926407	20	PASS



E.6 Duty Cycle

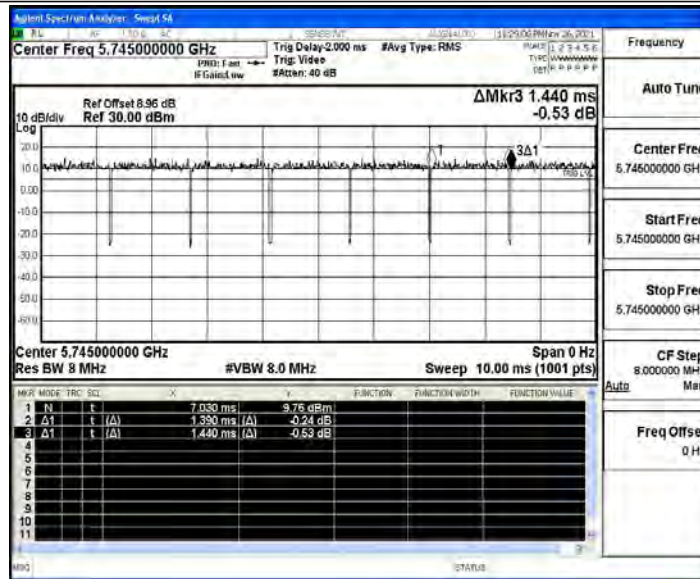
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5745	1.39	1.44	96.53	---	PASS
		5785	1.39	1.44	96.53	---	PASS
		5825	1.39	1.44	96.53	---	PASS
11N20SISO	Ant1	5745	1.30	1.35	96.30	---	PASS
		5785	1.30	1.35	96.30	---	PASS
		5825	1.30	1.35	96.30	---	PASS
11N40SISO	Ant1	5755	0.64	0.69	92.75	---	PASS
		5795	0.64	0.69	92.75	---	PASS
11AC20SISO	Ant1	5745	1.31	1.36	96.32	---	PASS
		5785	1.31	1.36	96.32	---	PASS
		5825	1.31	1.36	96.32	---	PASS
11AC40SISO	Ant1	5755	0.65	0.70	92.86	---	PASS
		5795	0.65	0.70	92.86	---	PASS
11AC80SISO	Ant1	5775	0.32	0.39	82.05	---	PASS

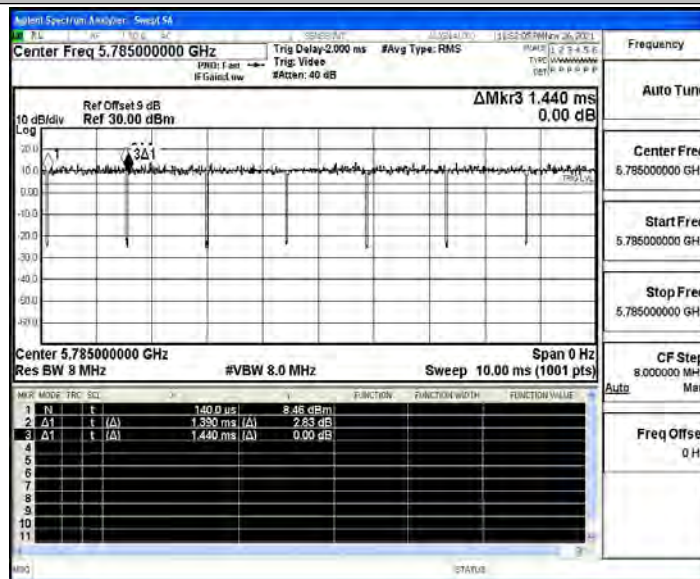


Test Graphs

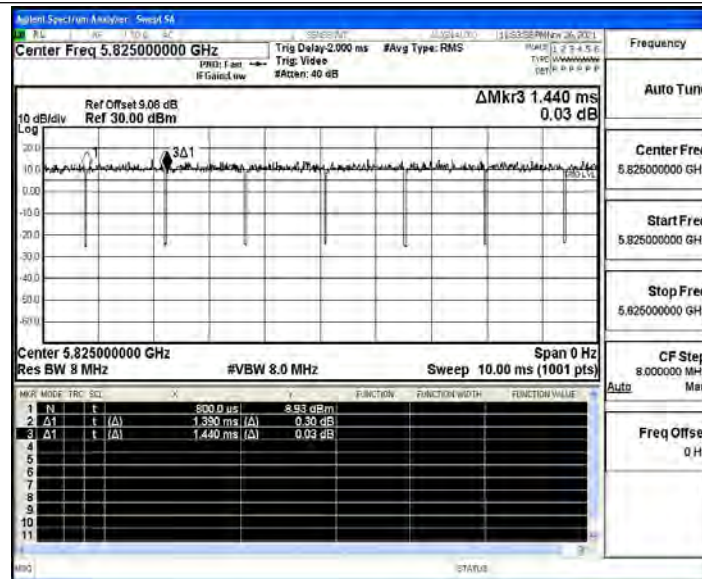
11A_Ant1_5745



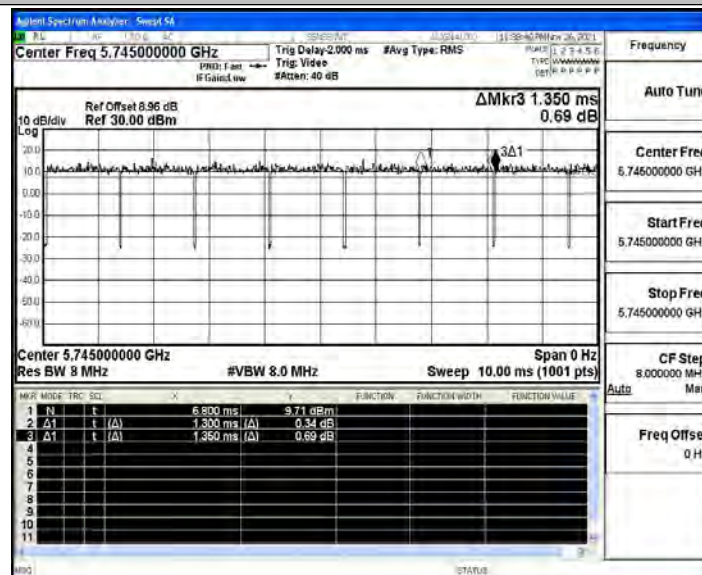
11A_Ant1_5785



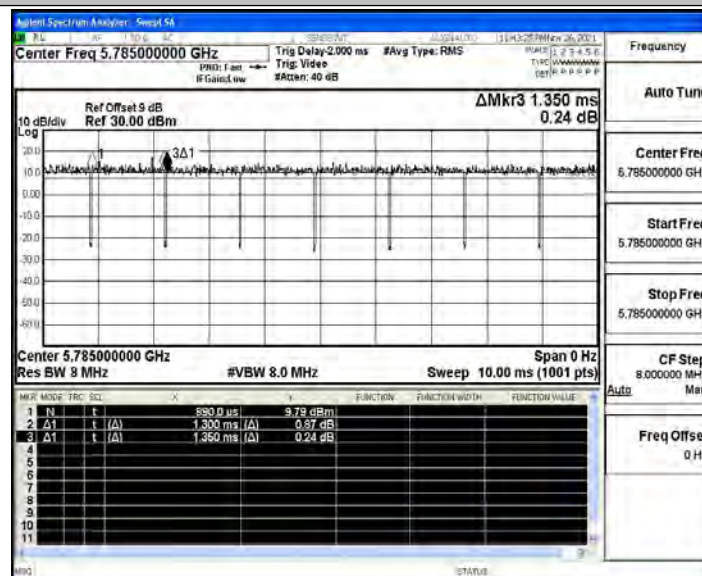
11A_Ant1_5825



11N20SISO_Ant1_5745

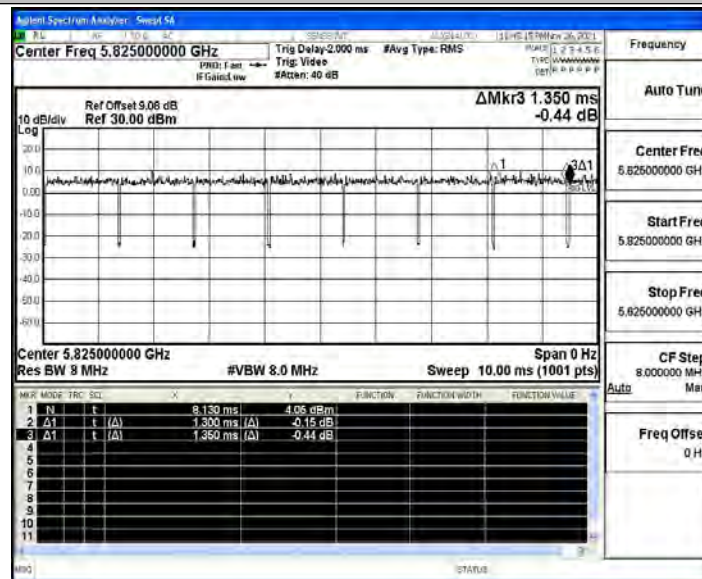


11N20SISO_Ant1_5785

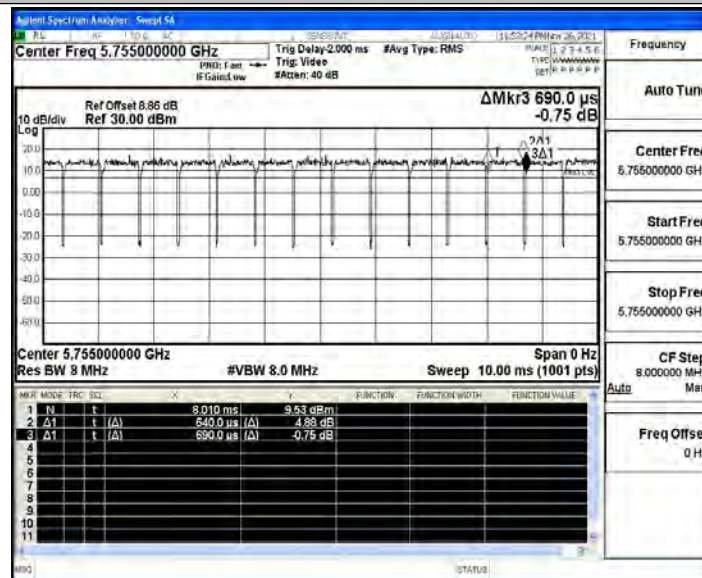




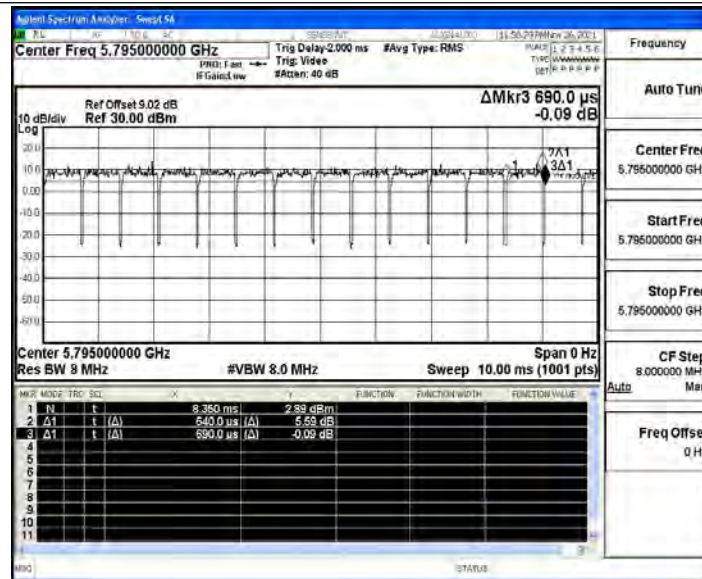
11N20SISO_Ant1_5825



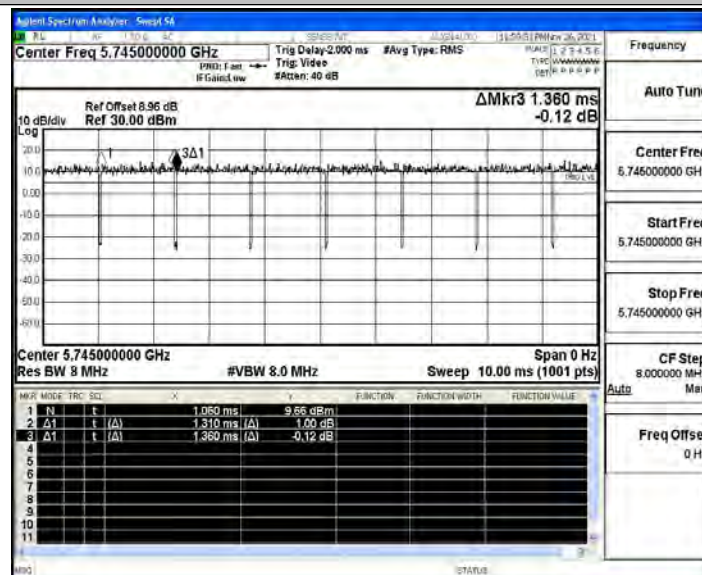
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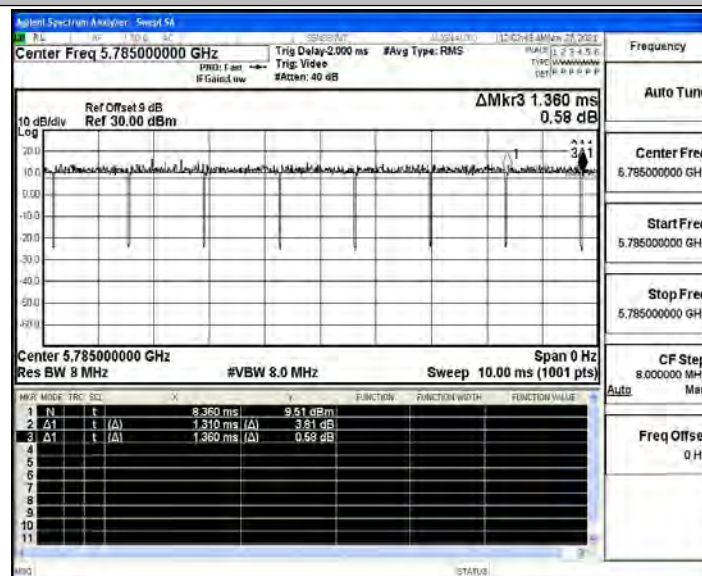
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

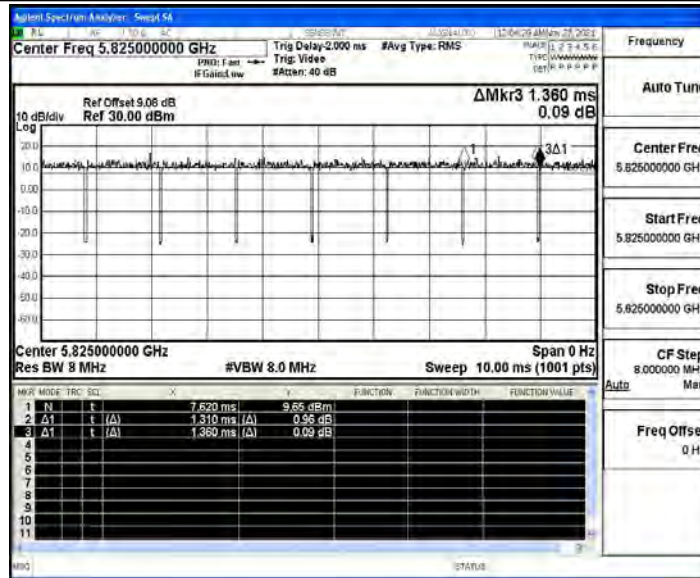


11AC20SISO_Ant1_5785

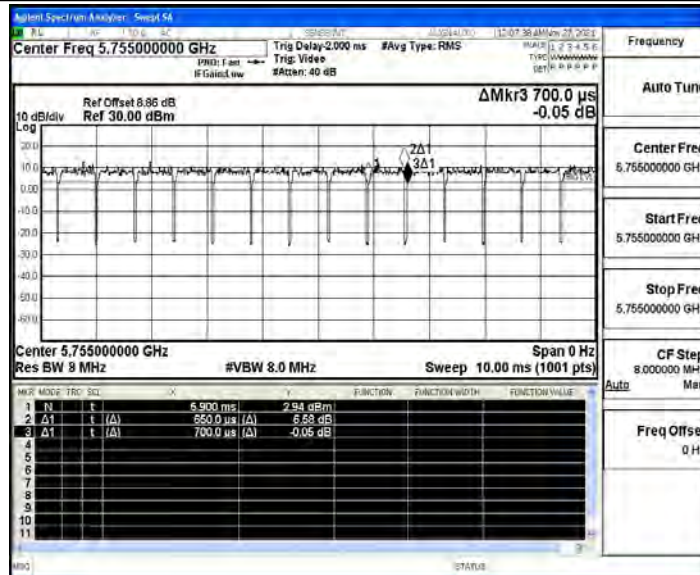




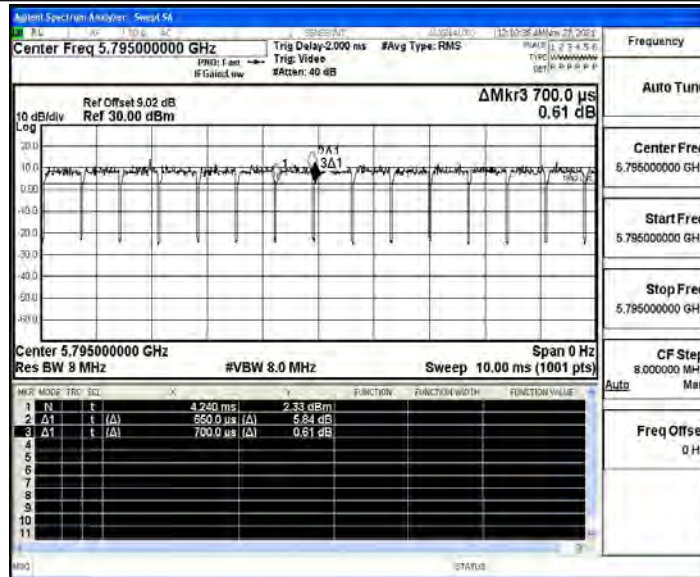
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

