



Appendix D

RF Test Data for 5.2G 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



D.6 Emission Bandwidth

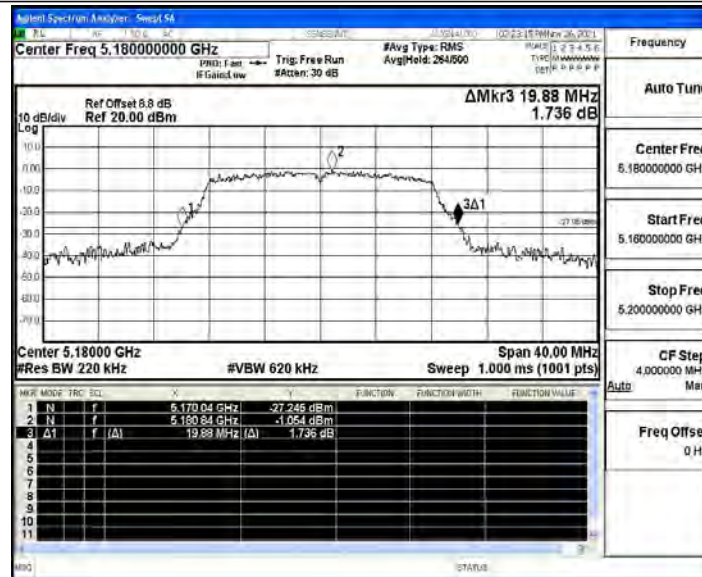
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.880	5170.040	5189.920	---	PASS
		5200	20.120	5190.000	5210.120	---	PASS
		5240	19.840	5230.120	5249.960	---	PASS
11N20SISO	Ant1	5180	20.320	5169.800	5190.120	---	PASS
		5200	20.440	5189.840	5210.280	---	PASS
		5240	20.040	5229.920	5249.960	---	PASS
11N40SISO	Ant1	5190	40.640	5169.760	5210.400	---	PASS
		5230	40.880	5209.440	5250.320	---	PASS
11AC20SISO	Ant1	5180	20.280	5169.840	5190.120	---	PASS
		5200	20.360	5189.800	5210.160	---	PASS
		5240	20.240	5229.920	5250.160	---	PASS
11AC40SISO	Ant1	5190	40.320	5169.600	5209.920	---	PASS
		5230	40.480	5209.600	5250.080	---	PASS
11AC80SISO	Ant1	5210	80.960	5169.520	5250.480	---	PASS

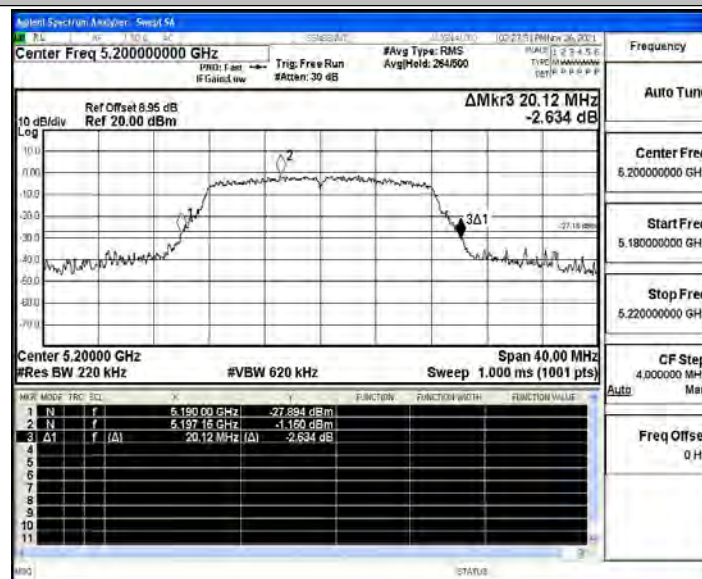


Test Graphs

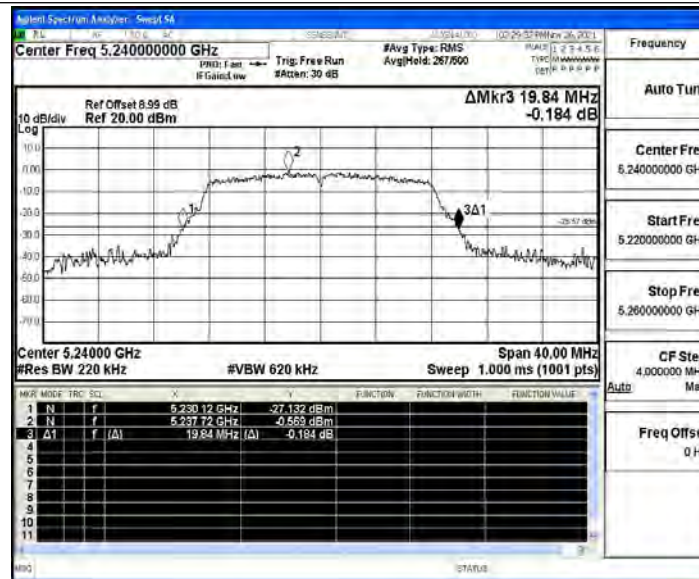
11A_Ant1_5180



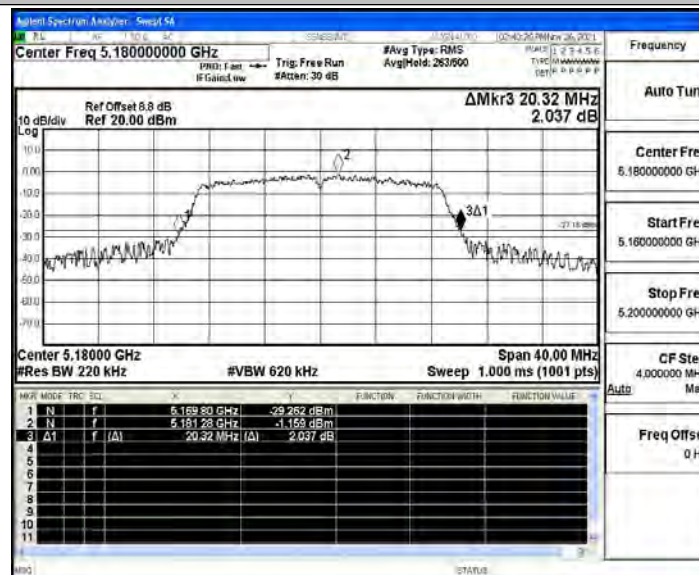
11A_Ant1_5200



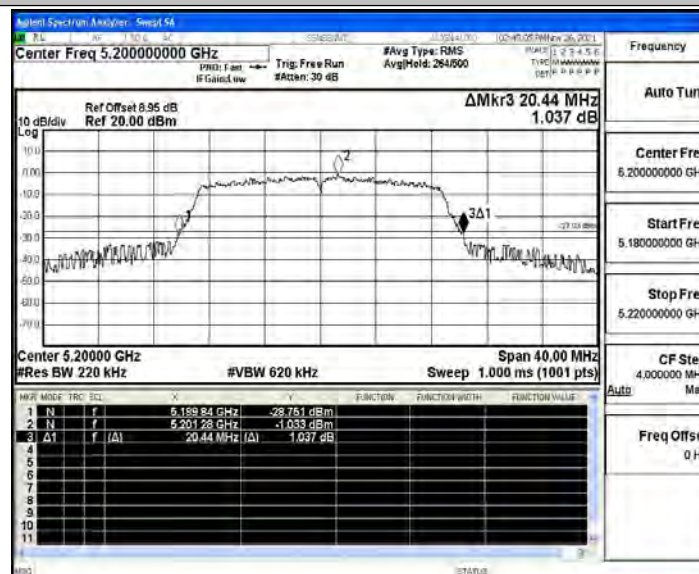
11A_Ant1_5240



11N20SISO_Ant1_5180

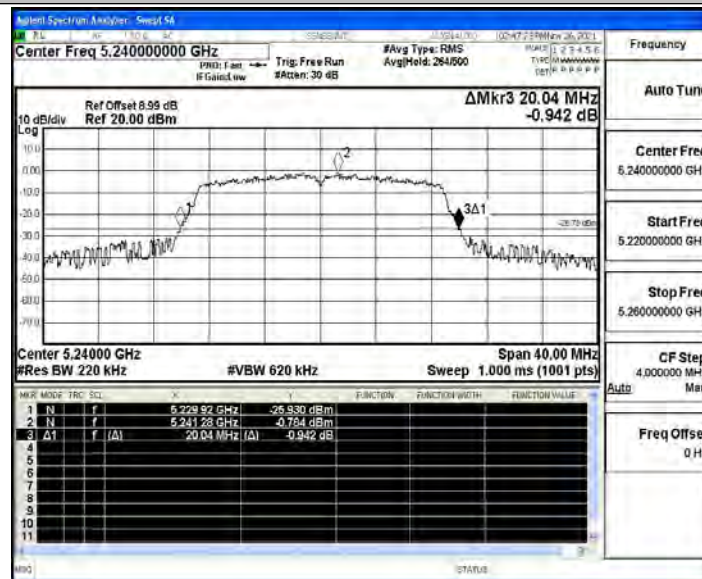


11N20SISO_Ant1_5200

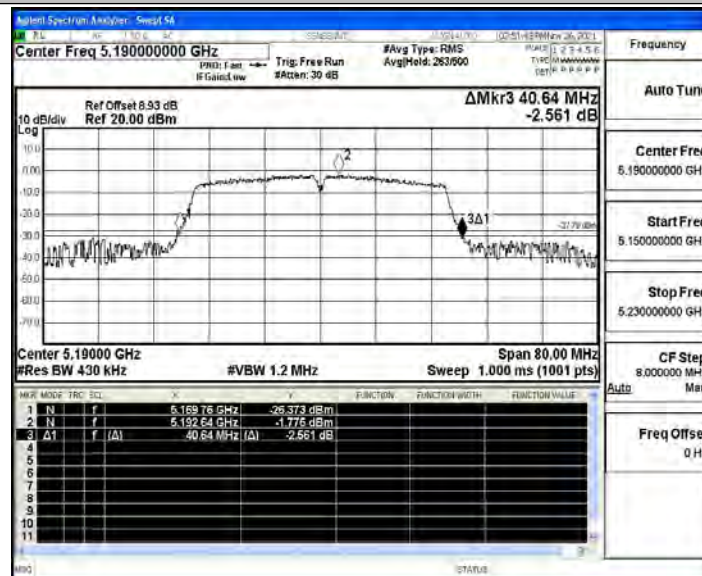




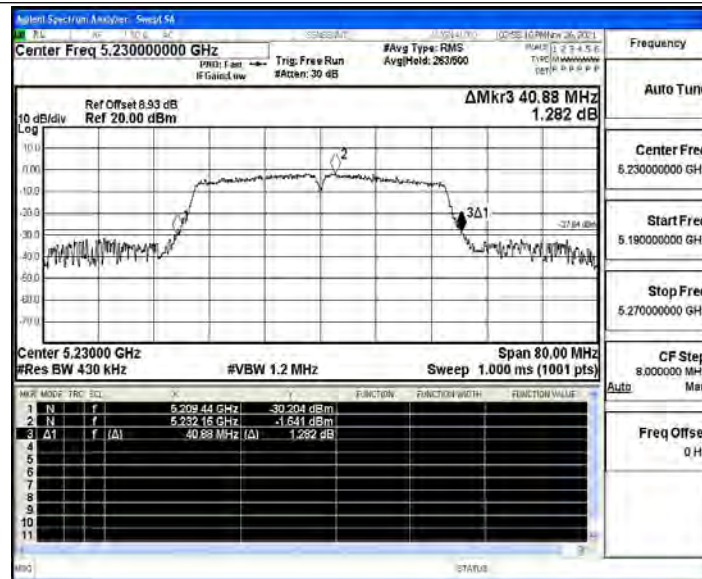
11N20SISO_Ant1_5240



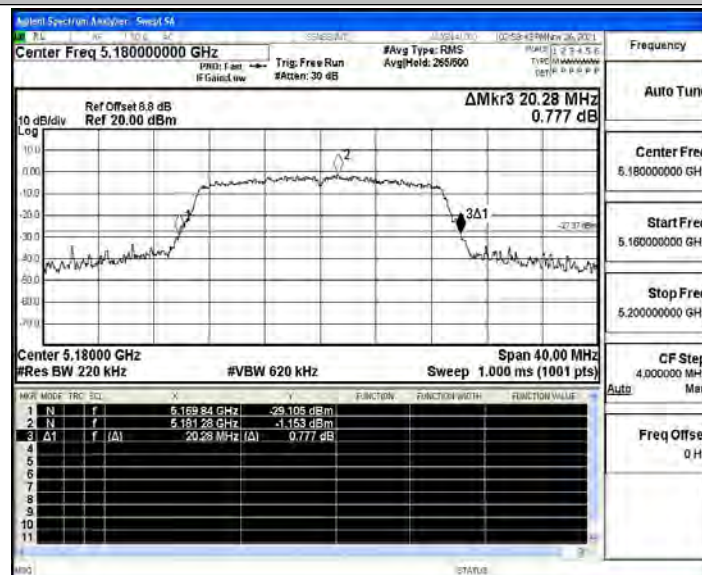
11N40SISO_Ant1_5190



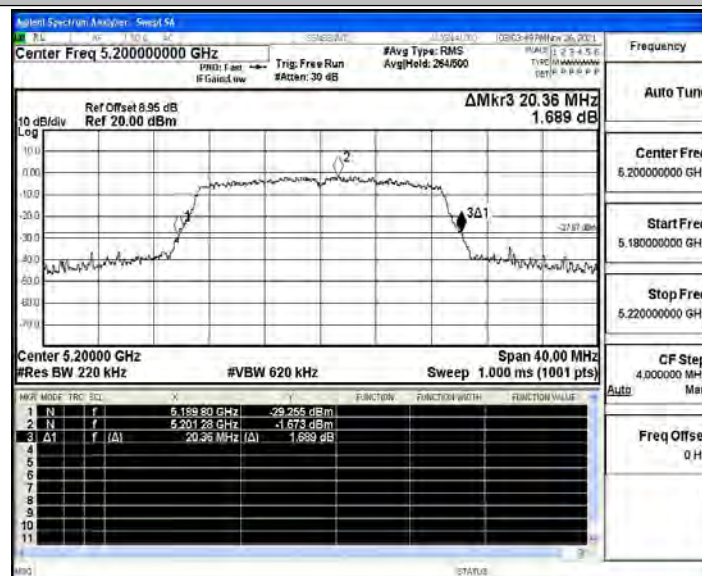
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

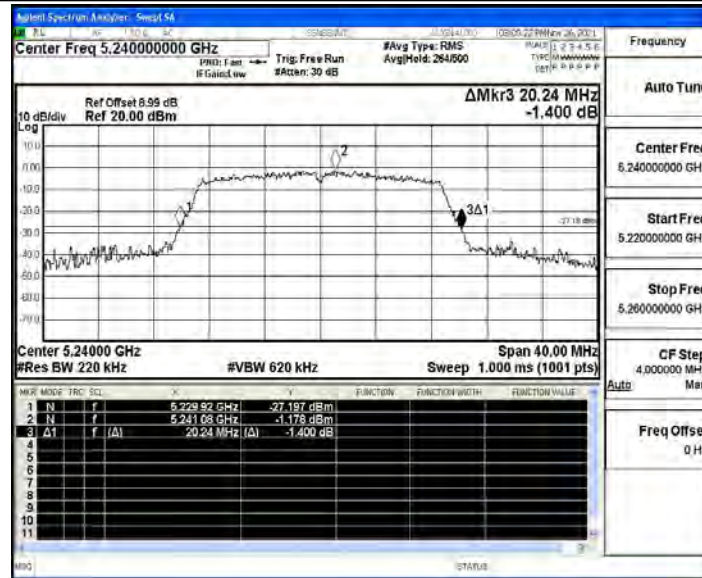


11AC20SISO_Ant1_5200

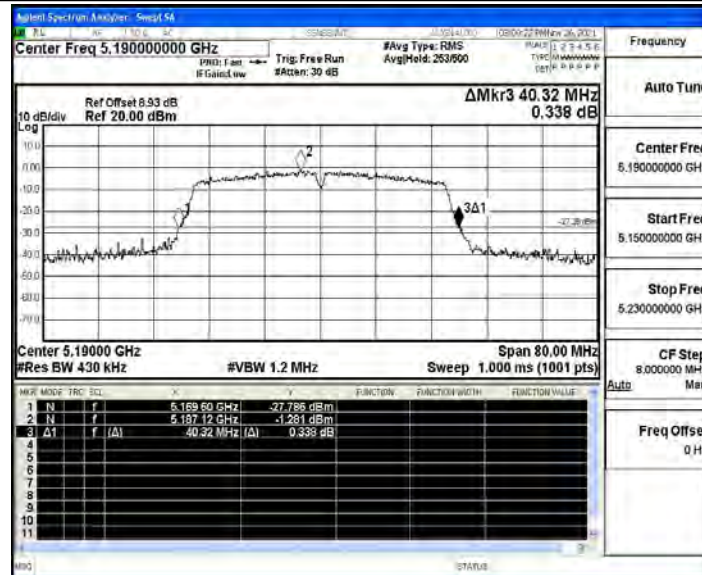




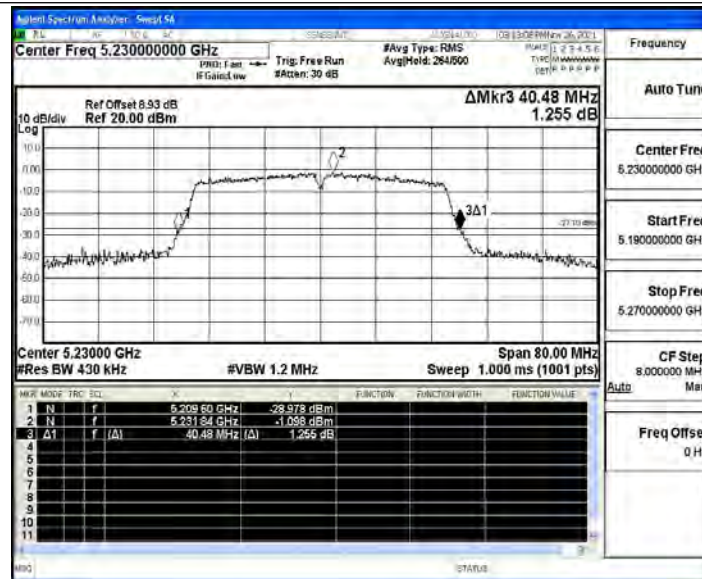
11AC20SISO_Ant1_5240



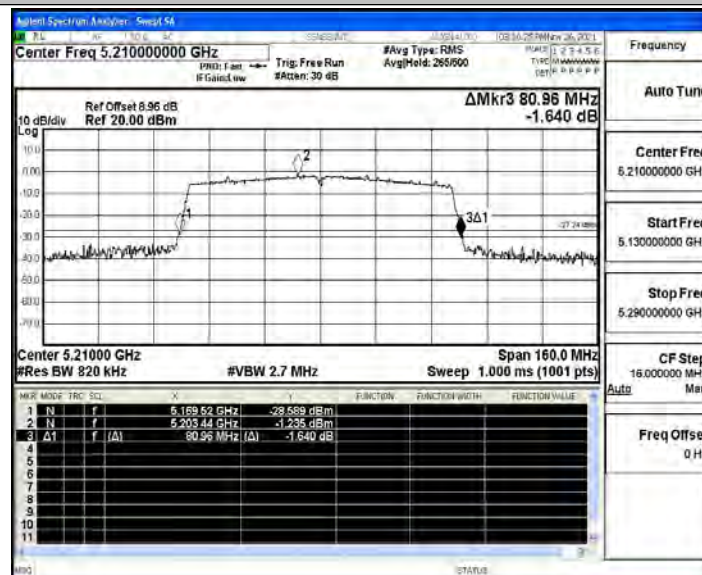
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.27	≤ 23.98	PASS
		5200	6.74	≤ 23.98	PASS
		5240	7.00	≤ 23.98	PASS
11N20SISO	Ant1	5180	6.43	≤ 23.98	PASS
		5200	6.56	≤ 23.98	PASS
		5240	6.80	≤ 23.98	PASS
11N40SISO	Ant1	5190	6.61	≤ 23.98	PASS
		5230	6.84	≤ 23.98	PASS
11AC20SISO	Ant1	5180	6.54	≤ 23.98	PASS
		5200	6.73	≤ 23.98	PASS
		5240	6.66	≤ 23.98	PASS
11AC40SISO	Ant1	5190	6.66	≤ 23.98	PASS
		5230	6.89	≤ 23.98	PASS
11AC80SISO	Ant1	5210	7.01	≤ 23.98	PASS

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



D.3 Maximum power spectral density

Test Result

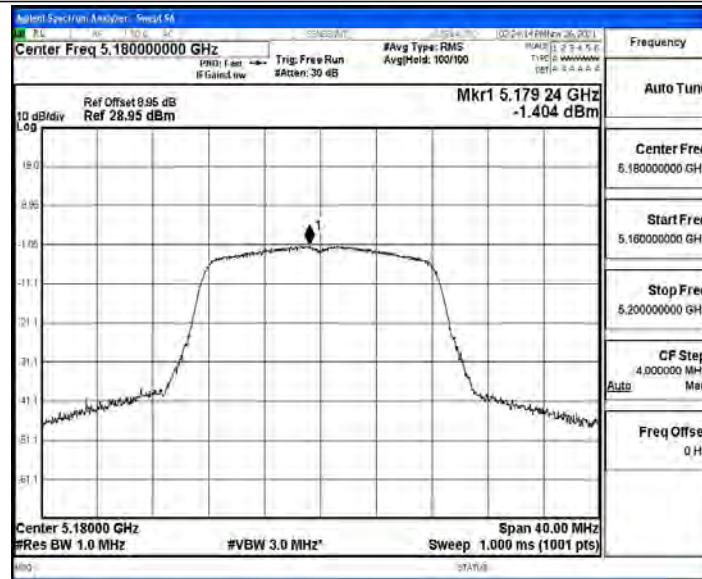
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.4	≤11	PASS
		5200	-2.04	≤11	PASS
		5240	-1.76	≤11	PASS
11N20SISO	Ant1	5180	-2.31	≤11	PASS
		5200	-2.21	≤11	PASS
		5240	-2.11	≤11	PASS
11N40SISO	Ant1	5190	-4.8	≤11	PASS
		5230	-5.03	≤11	PASS
11AC20SISO	Ant1	5180	-2.22	≤11	PASS
		5200	-2.08	≤11	PASS
		5240	-2.07	≤11	PASS
11AC40SISO	Ant1	5190	-5.03	≤11	PASS
		5230	-4.86	≤11	PASS
11AC80SISO	Ant1	5210	-7.83	≤11	PASS

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

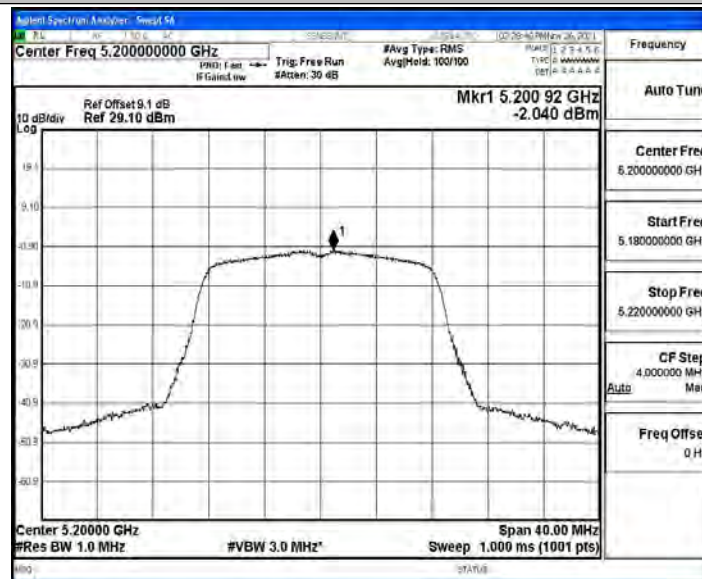


Test Graphs

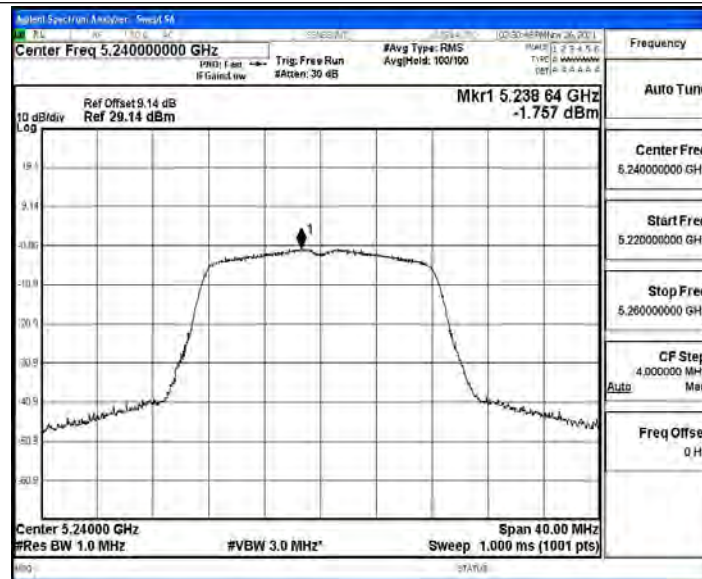
11A_Ant1_5180



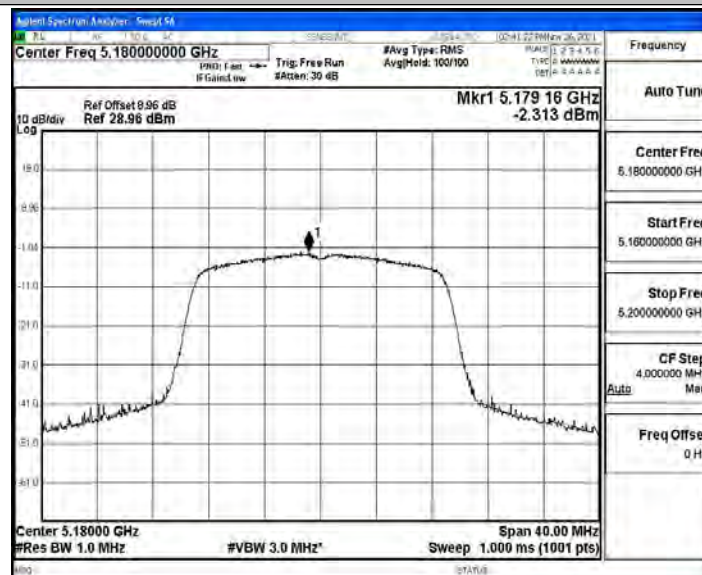
11A_Ant1_5200



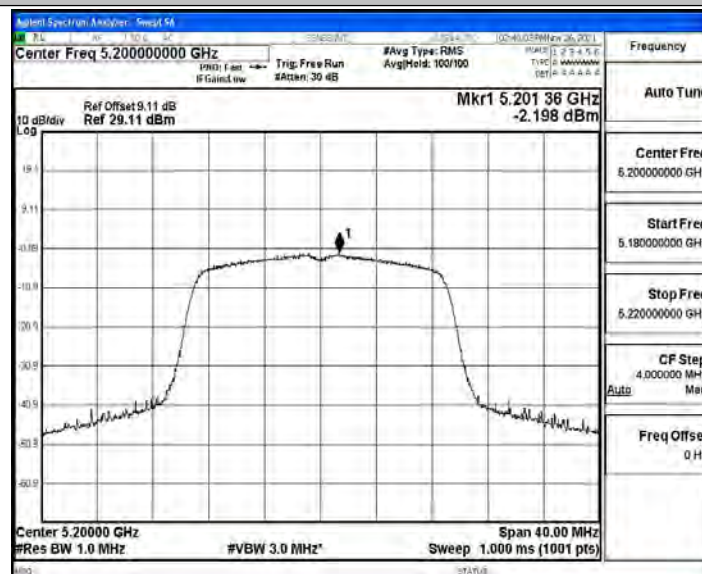
11A_Ant1_5240



11N20SISO_Ant1_5180

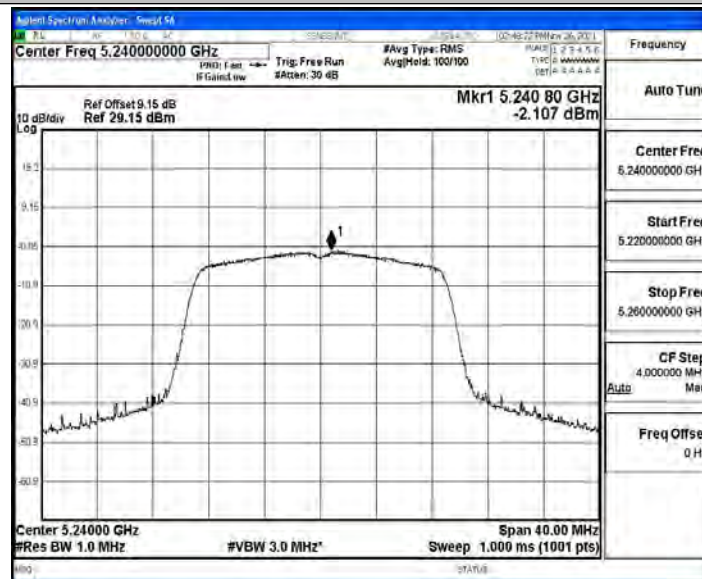


11N20SISO_Ant1_5200

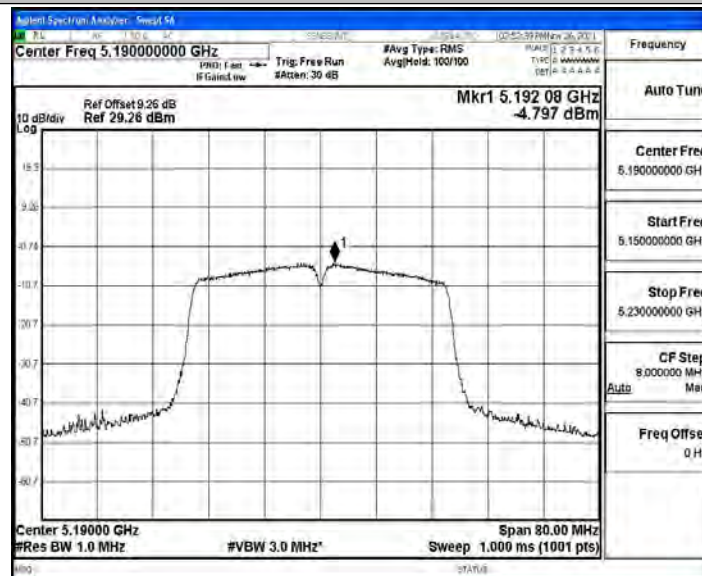




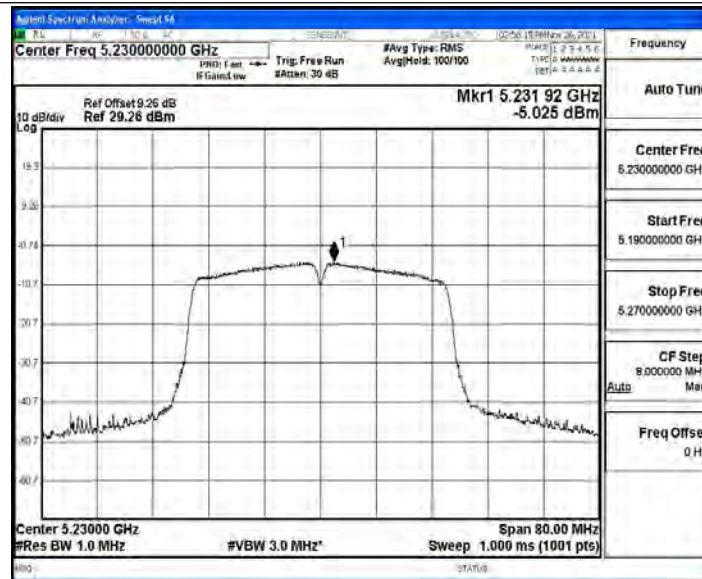
11N20SISO_Ant1_5240



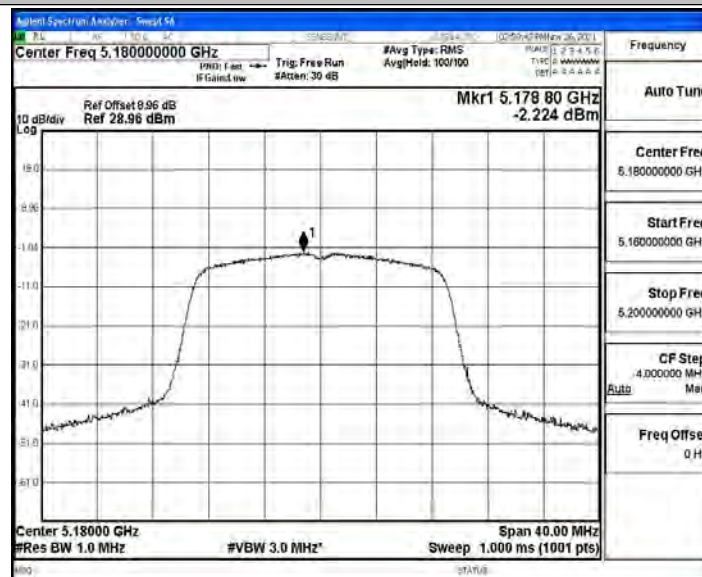
11N40SISO_Ant1_5190



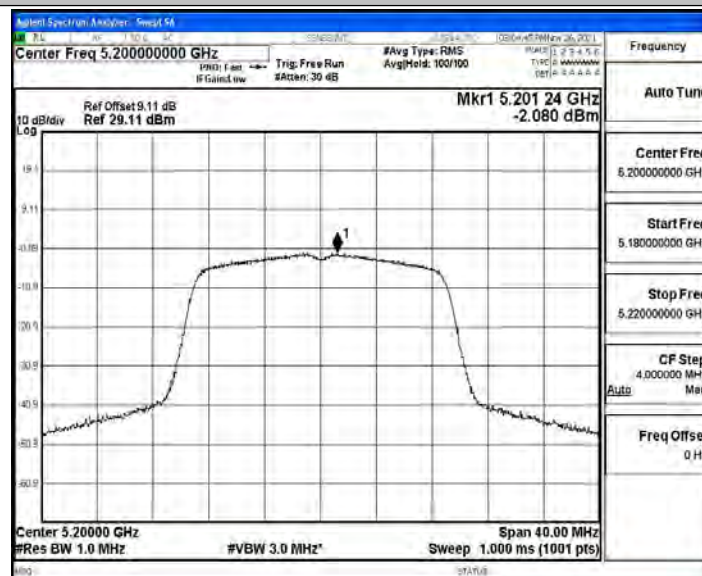
11N40SISO_Ant1_5230



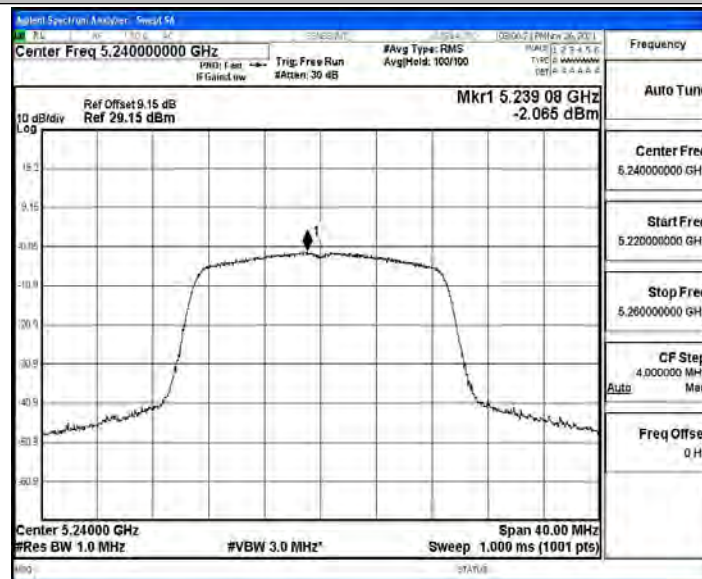
11AC20SISO_Ant1_5180



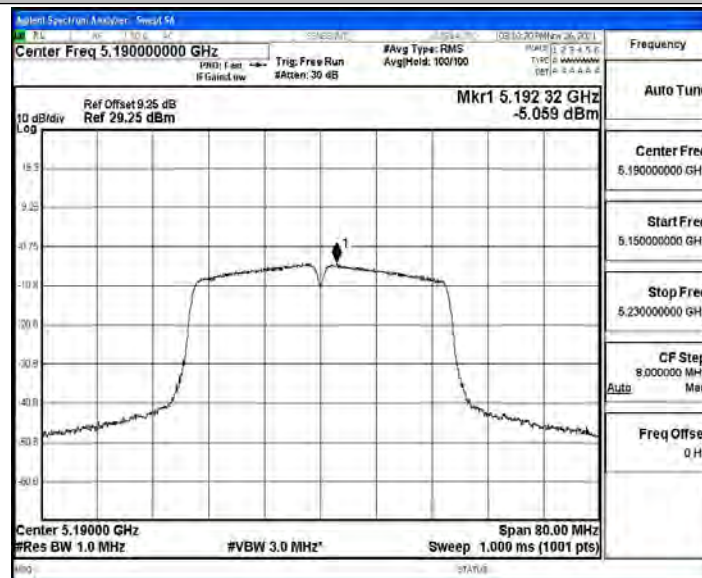
11AC20SISO_Ant1_5200



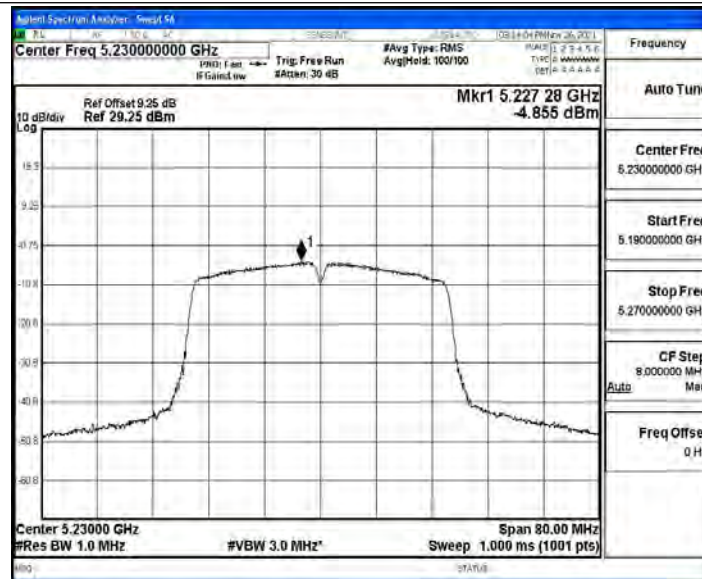
11AC20SISO_Ant1_5240



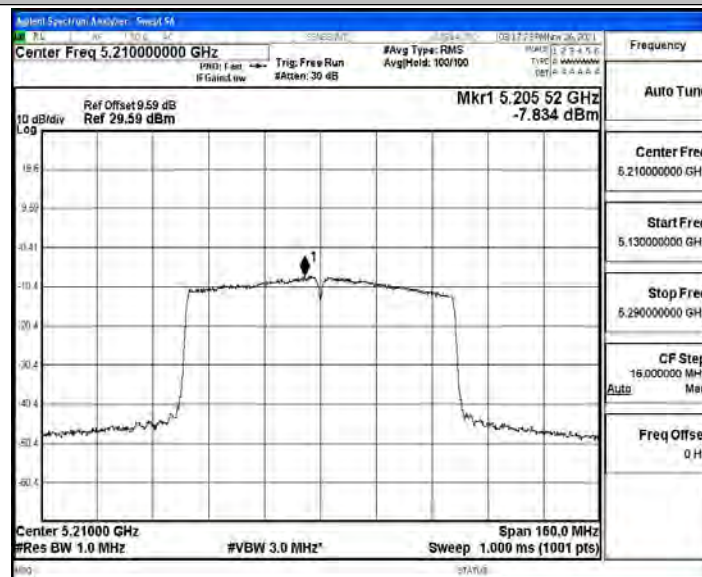
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.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	5180	AV	4500.000	-49.25	≤-41.20	45.95	≤54	PASS
				AV	5149.600	-46.14	≤-41.20	49.06	≤54	PASS
				AV	5150.000	-45.87	≤-41.20	49.33	≤54	PASS
				Peak	4500.000	-42.73	≤-21.20	52.47	≤74	PASS
				Peak	4794.700	-37.11	≤-21.20	58.09	≤74	PASS
				Peak	5150.000	-38.42	≤-21.20	56.78	≤74	PASS
		High	5240	AV	5350.000	-47.8	≤-41.20	47.40	≤54	PASS
				AV	5377.680	-47.64	≤-41.20	47.56	≤54	PASS
				AV	5460.000	-47.8	≤-41.20	47.40	≤54	PASS
				Peak	5350.000	-39.65	≤-21.20	55.55	≤74	PASS
				Peak	5442.240	-38.68	≤-21.20	56.52	≤74	PASS
				Peak	5460.000	-41.41	≤-21.20	53.79	≤74	PASS
11N20SI SO	Ant1	Low	5180	AV	4500.000	-49.26	≤-41.20	45.94	≤54	PASS
				AV	5149.600	-46.74	≤-41.20	48.46	≤54	PASS
				AV	5150.000	-46.42	≤-41.20	48.78	≤54	PASS
				Peak	4500.000	-41.57	≤-21.20	53.63	≤74	PASS
				Peak	5148.900	-36.67	≤-21.20	58.53	≤74	PASS
				Peak	5150.000	-41.07	≤-21.20	54.13	≤74	PASS
		High	5240	AV	5350.000	-47.84	≤-41.20	47.36	≤54	PASS
				AV	5396.640	-47.51	≤-41.20	47.69	≤54	PASS
				AV	5460.000	-47.91	≤-41.20	47.29	≤54	PASS
				Peak	5350.000	-41.27	≤-21.20	53.93	≤74	PASS
				Peak	5451.600	-38.08	≤-21.20	57.12	≤74	PASS
				Peak	5460.000	-41.75	≤-21.20	53.45	≤74	PASS
11N40SI SO	Ant1	Low	5190	AV	4500.000	-48.99	≤-41.20	46.21	≤54	PASS
				AV	5149.600	-44.12	≤-41.20	51.08	≤54	PASS
				AV	5150.000	-43.8	≤-41.20	51.40	≤54	PASS
				Peak	4500.000	-42.12	≤-21.20	53.08	≤74	PASS
				Peak	5148.200	-31.82	≤-21.20	63.38	≤74	PASS
				Peak	5150.000	-28.22	≤-21.20	66.98	≤74	PASS
		High	5230	AV	5350.000	-47.78	≤-41.20	47.42	≤54	PASS
				AV	5365.360	-47.24	≤-41.20	47.96	≤54	PASS
				AV	5460.000	-47.87	≤-41.20	47.33	≤54	PASS
				Peak	5350.000	-40.74	≤-21.20	54.46	≤74	PASS
				Peak	5430.880	-38.19	≤-21.20	57.01	≤74	PASS
				Peak	5460.000	-41.53	≤-21.20	53.67	≤74	PASS
11AC20S	Ant1	Low	5180	AV	4500.000	-49.28	≤-41.20	45.92	≤54	PASS



ISO				AV	5148.900	-46.8	≤ -41.20	48.40	≤ 54	PASS
				AV	5150.000	-47	≤ -41.20	48.20	≤ 54	PASS
				Peak	4500.000	-42.58	≤ -21.20	52.62	≤ 74	PASS
				Peak	4798.900	-37.81	≤ -21.20	57.39	≤ 74	PASS
				Peak	5150.000	-40.13	≤ -21.20	55.07	≤ 74	PASS
				Peak	5150.000	-40.13	≤ -21.20	55.07	≤ 74	PASS
		High	5240	AV	5350.000	-47.83	≤ -41.20	47.37	≤ 54	PASS
				AV	5447.760	-47.53	≤ -41.20	47.67	≤ 54	PASS
				AV	5460.000	-47.9	≤ -41.20	47.30	≤ 54	PASS
				Peak	5350.000	-41.83	≤ -21.20	53.37	≤ 74	PASS
				Peak	5411.760	-38.84	≤ -21.20	56.36	≤ 74	PASS
				Peak	5460.000	-40.08	≤ -21.20	55.12	≤ 74	PASS
11AC40S ISO	Ant1	Low	5190	AV	4500.000	-49.01	≤ -41.20	46.19	≤ 54	PASS
				AV	5149.600	-44.27	≤ -41.20	50.93	≤ 54	PASS
				AV	5150.000	-43.71	≤ -41.20	51.49	≤ 54	PASS
				Peak	4500.000	-41.75	≤ -21.20	53.45	≤ 74	PASS
				Peak	5148.900	-33.99	≤ -21.20	61.21	≤ 74	PASS
				Peak	5150.000	-34.91	≤ -21.20	60.29	≤ 74	PASS
		High	5230	AV	5350.000	-47.84	≤ -41.20	47.36	≤ 54	PASS
				AV	5414.760	-47.23	≤ -41.20	47.97	≤ 54	PASS
				AV	5460.000	-47.82	≤ -41.20	47.38	≤ 54	PASS
				Peak	5350.000	-42.16	≤ -21.20	53.04	≤ 74	PASS
				Peak	5369.000	-37.68	≤ -21.20	57.52	≤ 74	PASS
				Peak	5460.000	-41.23	≤ -21.20	53.97	≤ 74	PASS
11AC80S ISO	Ant1	Low	5210	AV	4500.000	-48.59	≤ -41.20	46.61	≤ 54	PASS
				AV	5149.500	-41.73	≤ -41.20	53.47	≤ 54	PASS
				AV	5150.000	-41.22	≤ -41.20	53.98	≤ 54	PASS
				Peak	4500.000	-41.81	≤ -21.20	53.39	≤ 74	PASS
				Peak	5147.250	-33.89	≤ -21.20	61.31	≤ 74	PASS
				Peak	5150.000	-36.59	≤ -21.20	58.61	≤ 74	PASS
		High	5210	AV	5350.000	-47.43	≤ -41.20	47.77	≤ 54	PASS
				AV	5441.520	-46.85	≤ -41.20	48.35	≤ 54	PASS
				AV	5460.000	-47.2	≤ -41.20	48.00	≤ 54	PASS
				Peak	5350.000	-41.17	≤ -21.20	54.03	≤ 74	PASS
				Peak	5406.240	-38.06	≤ -21.20	57.14	≤ 74	PASS
				Peak	5460.000	-41.31	≤ -21.20	53.89	≤ 74	PASS

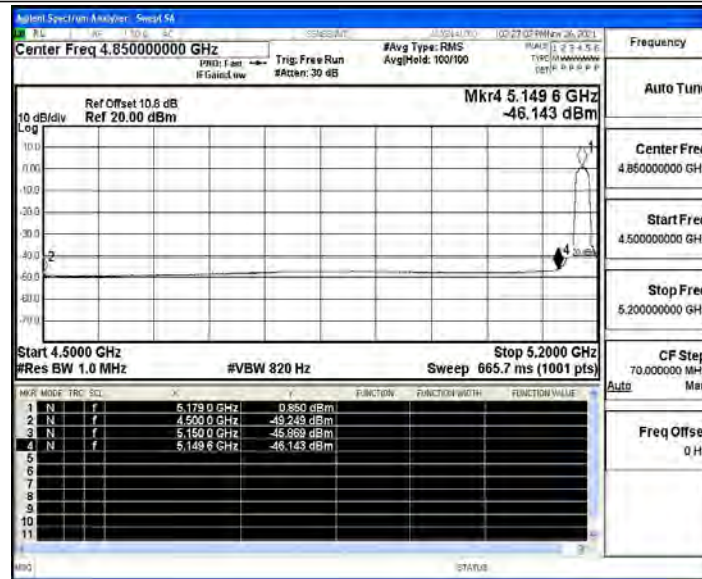
Note:

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.

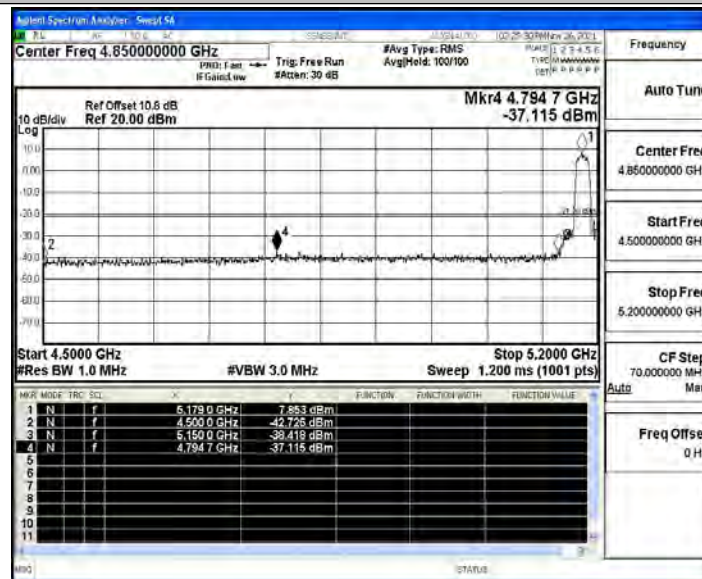


Test Graphs

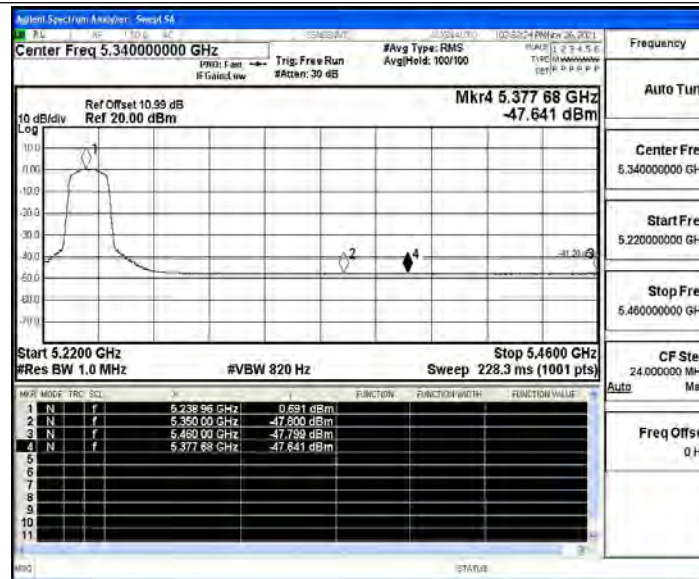
11A_Ant1_Low_5180_AV



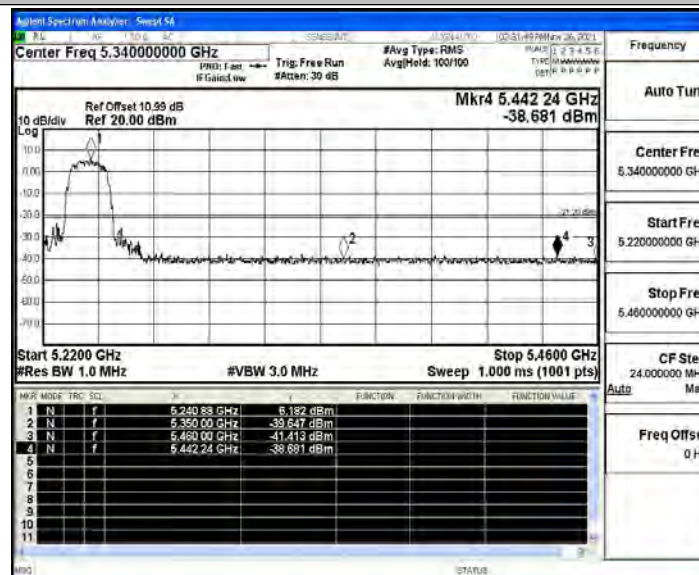
11A_Ant1_Low_5180_Peak



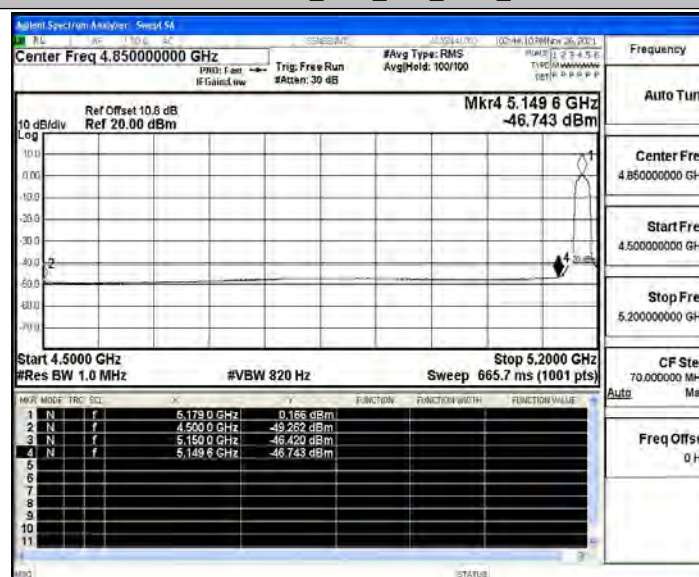
11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak

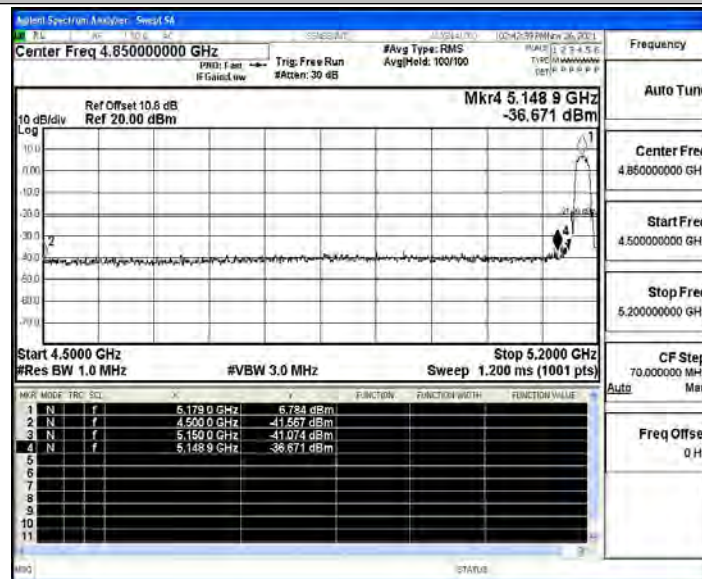


11N20SISO_Ant1_Low_5180_AV

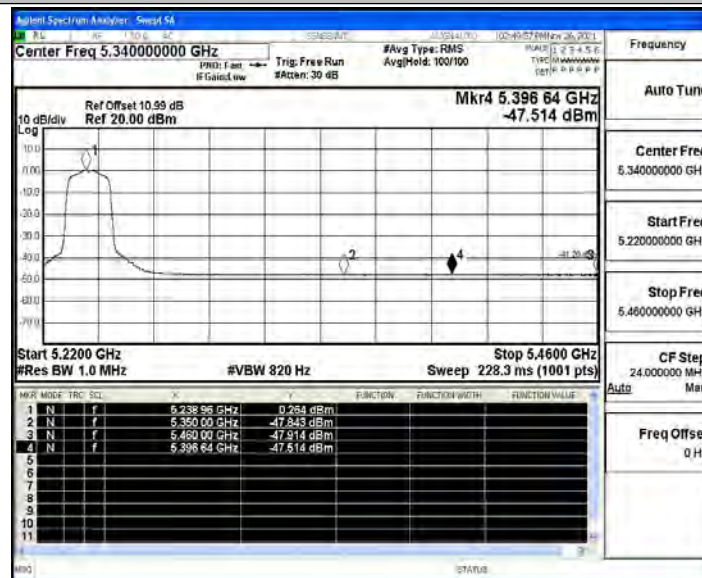




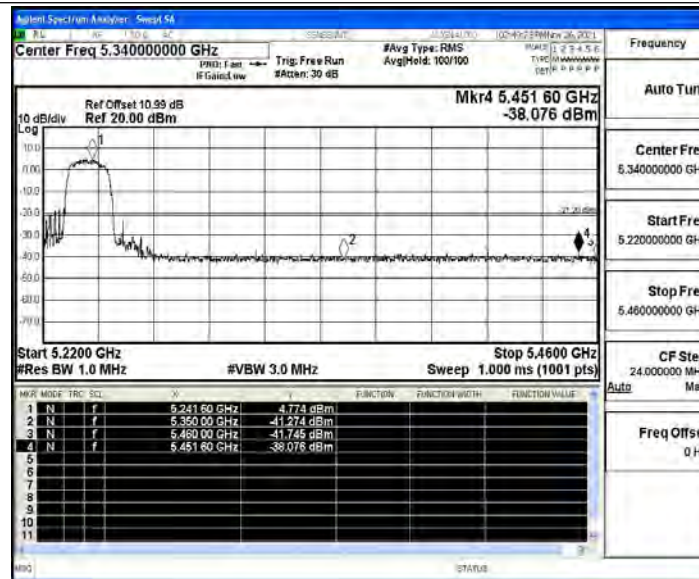
11N20SISO_Ant1_Low_5180_Peak



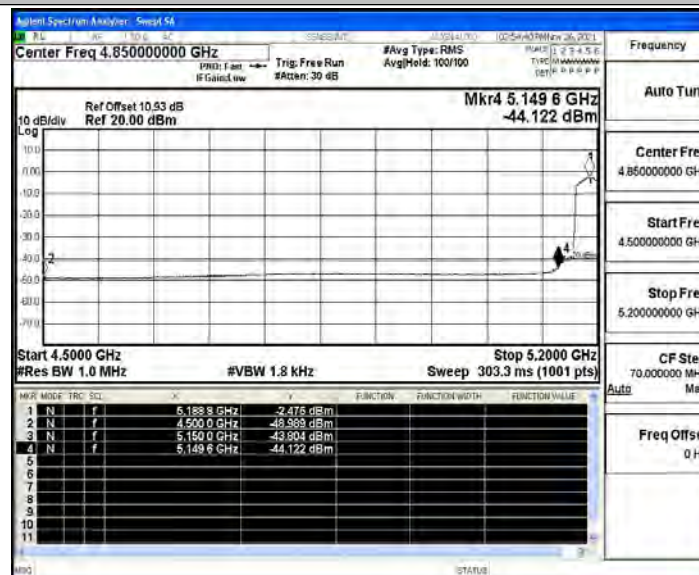
11N20SISO_Ant1_High_5240_AV



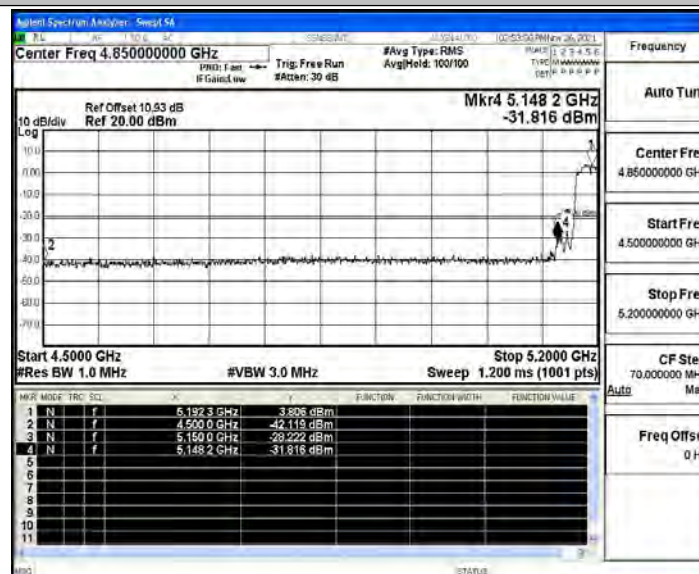
11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

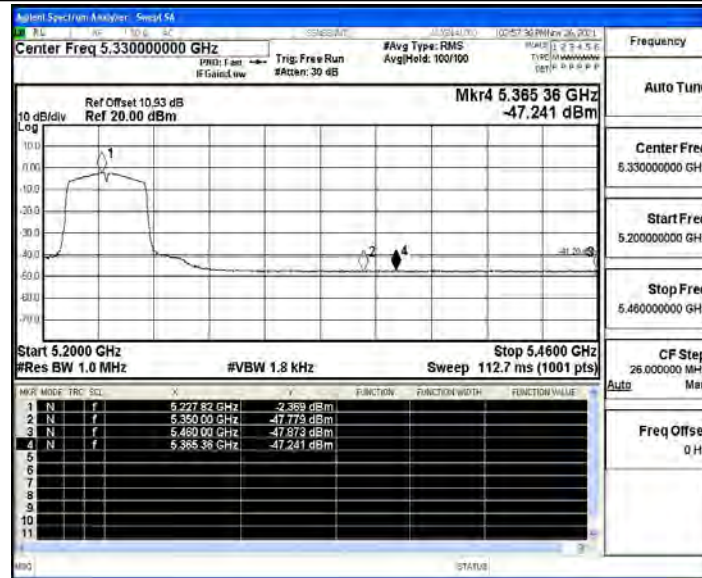


11N40SISO_Ant1_Low_5190_Peak

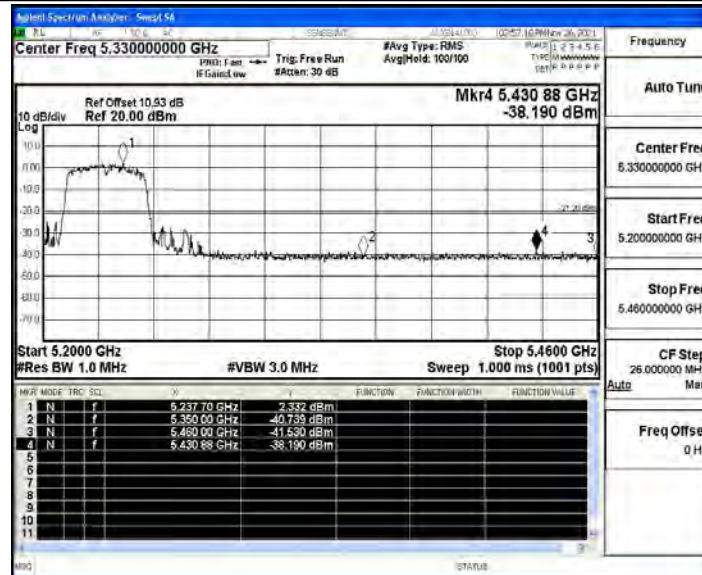




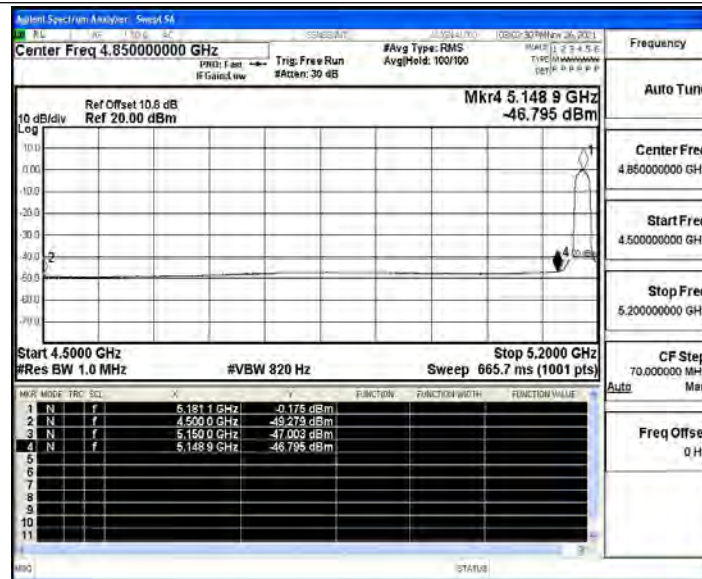
11N40SISO_Ant1_High_5230_AV



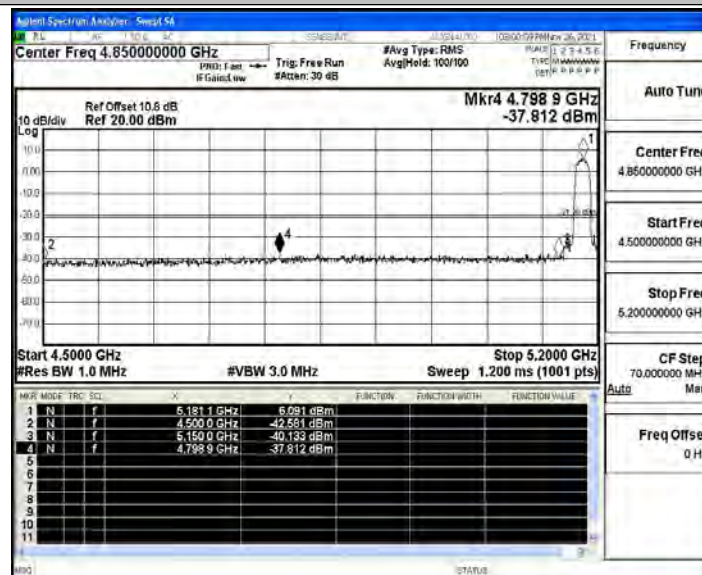
11N40SISO_Ant1_High_5230_Peak



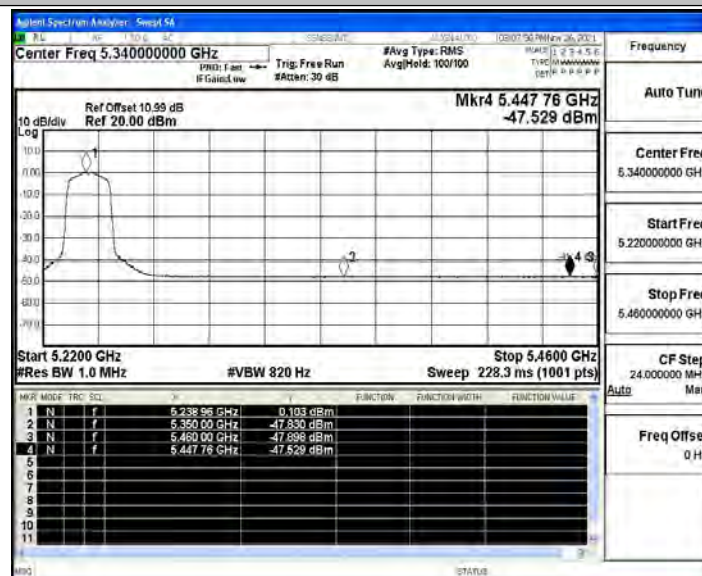
11AC20SISO_Ant1_Low_5180_AV



11AC20SISO_Ant1_Low_5180_Peak

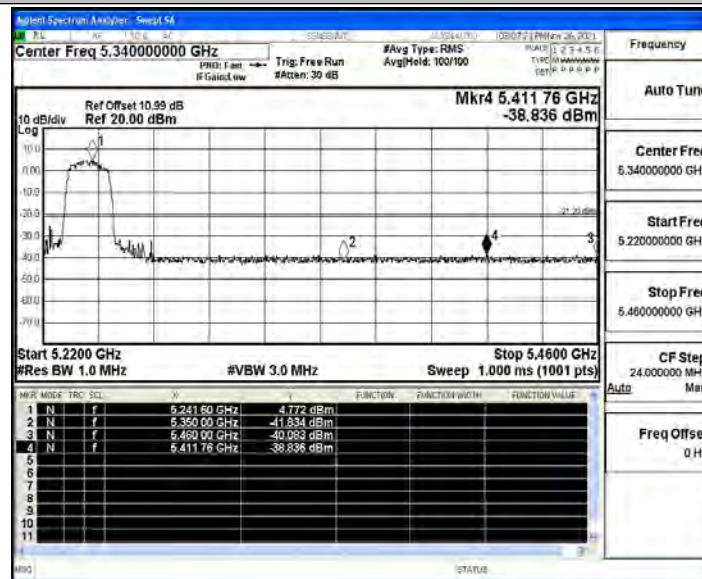


11AC20SISO_Ant1_High_5240_AV

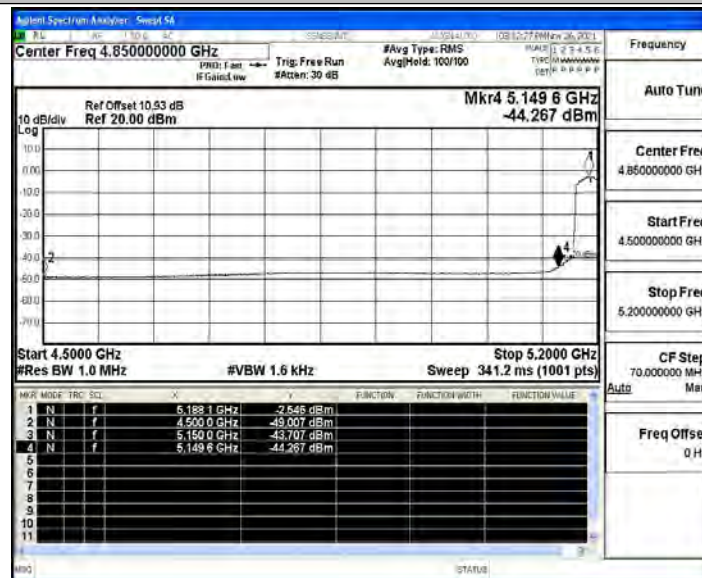




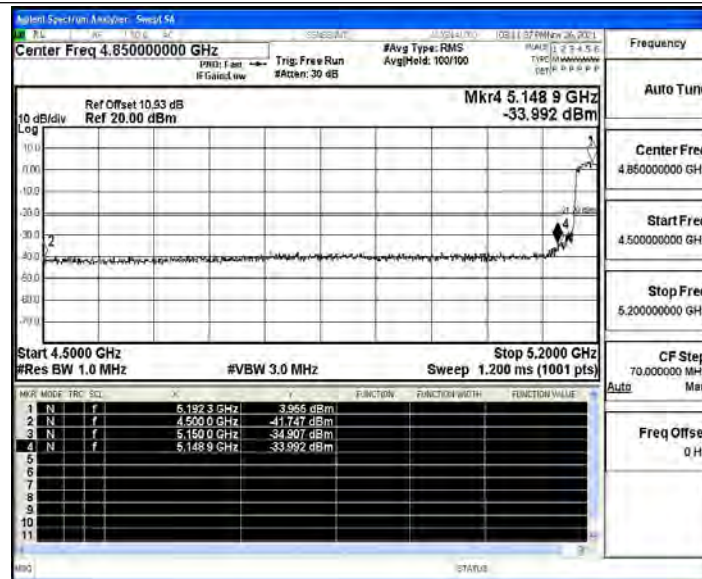
11AC20SISO_Ant1_High_5240_Peak



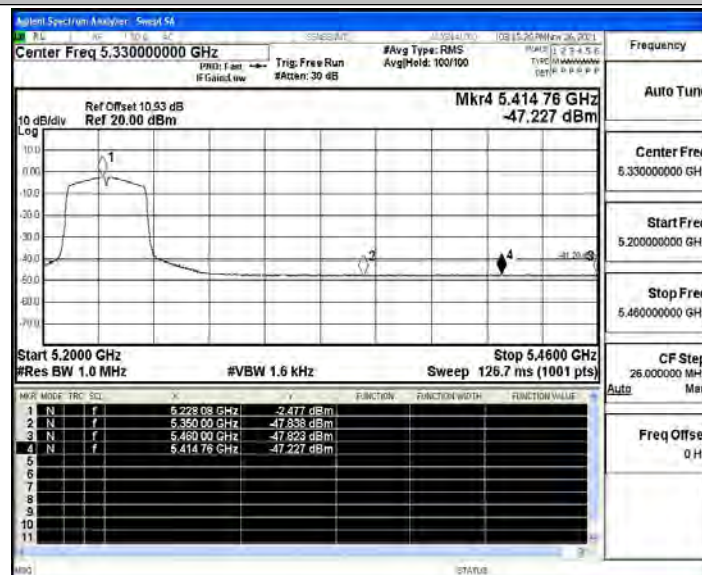
11AC40SISO_Ant1_Low_5190_AV



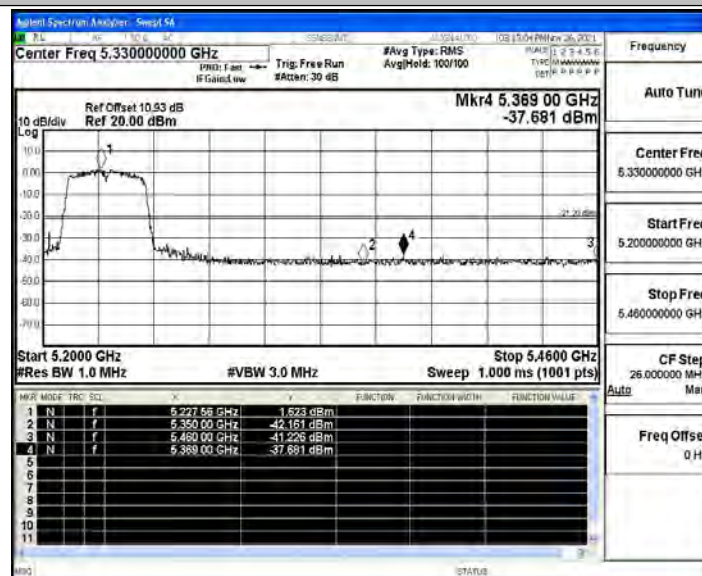
11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

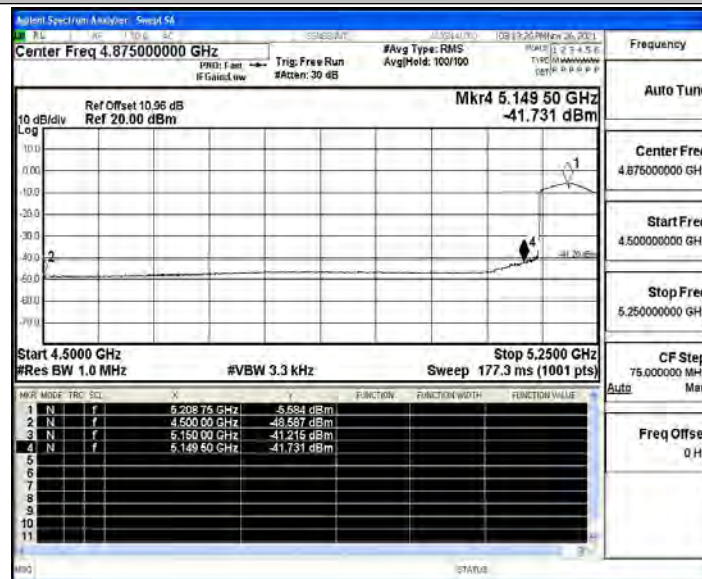


11AC40SISO_Ant1_High_5230_Peak

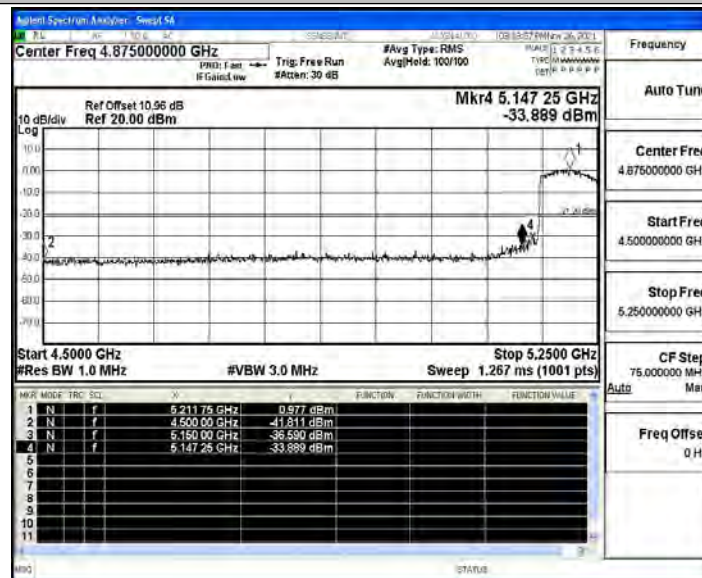




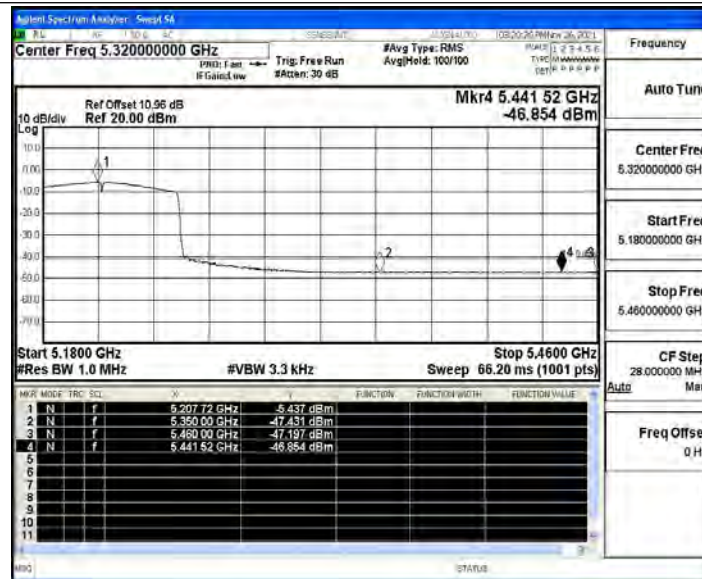
11AC80SISO_Ant1_Low_5210_AV



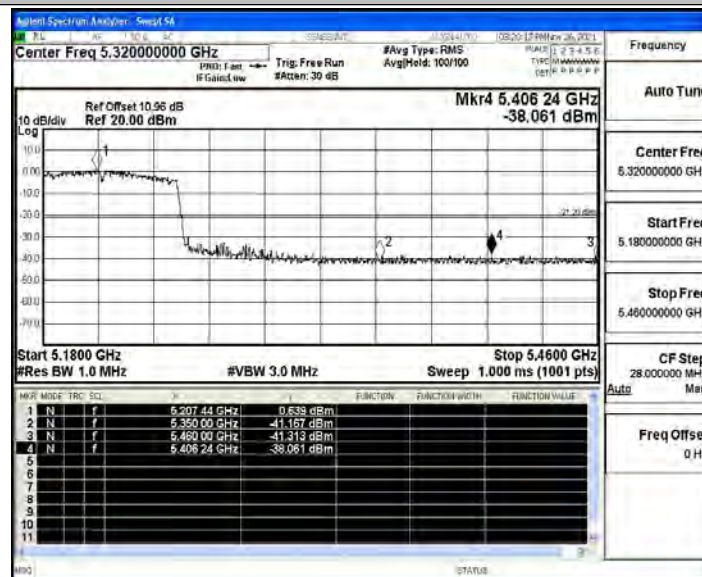
11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV



11AC80SISO_Ant1_High_5210_Peak





D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5180	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5200	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5240	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
11AC40SISO	Ant1	5190	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5230	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
11AC80SISO	Ant1	5210	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
11AC20SISO	Ant1	5180	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
		5200	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	0	0	20	PASS
			NV	50	0	0	20	PASS
		5240	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
11AC40SISO	Ant1	5190	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
		5230	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
11AC80SISO	Ant1	5210	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



D.6 Duty Cycle

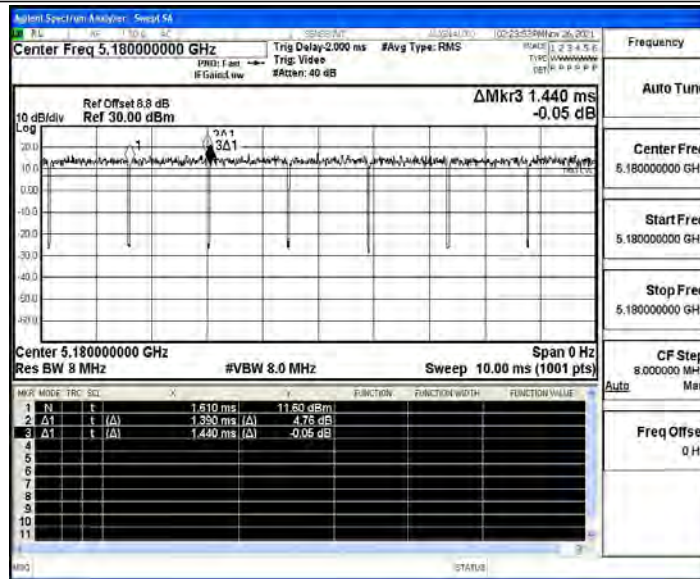
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.39	1.44	96.53	---	PASS
		5200	1.39	1.44	96.53	---	PASS
		5240	1.39	1.44	96.53	---	PASS
11N20SISO	Ant1	5180	1.30	1.35	96.30	---	PASS
		5200	1.30	1.35	96.30	---	PASS
		5240	1.30	1.35	96.30	---	PASS
11N40SISO	Ant1	5190	0.64	0.69	92.75	---	PASS
		5230	0.64	0.69	92.75	---	PASS
11AC20SISO	Ant1	5180	1.31	1.36	96.32	---	PASS
		5200	1.31	1.36	96.32	---	PASS
		5240	1.31	1.36	96.32	---	PASS
11AC40SISO	Ant1	5190	0.65	0.70	92.86	---	PASS
		5230	0.65	0.70	92.86	---	PASS
11AC80SISO	Ant1	5210	0.32	0.37	86.49	---	PASS

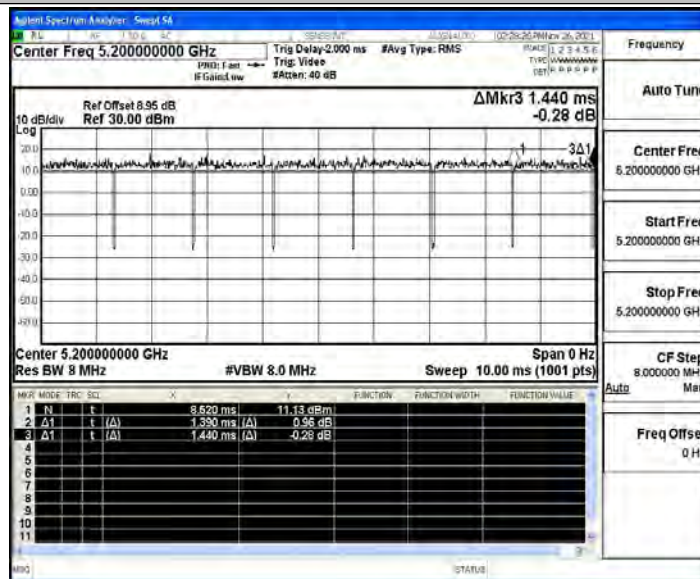


Test Graphs

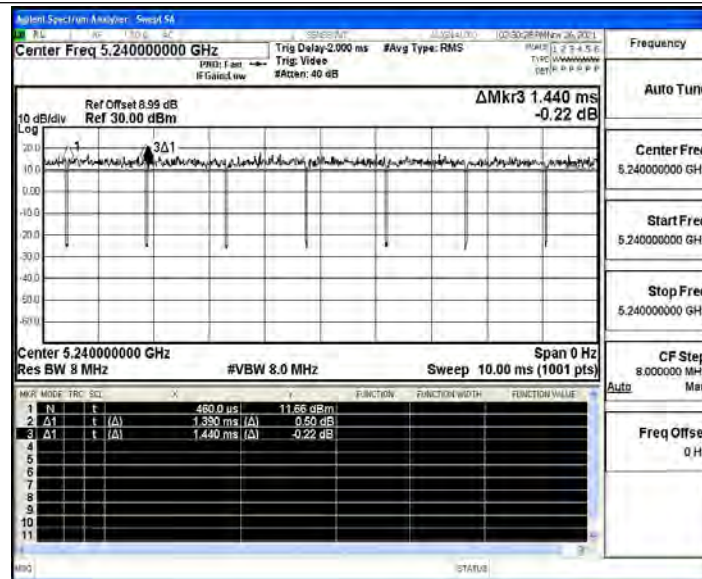
11A_Ant1_5180



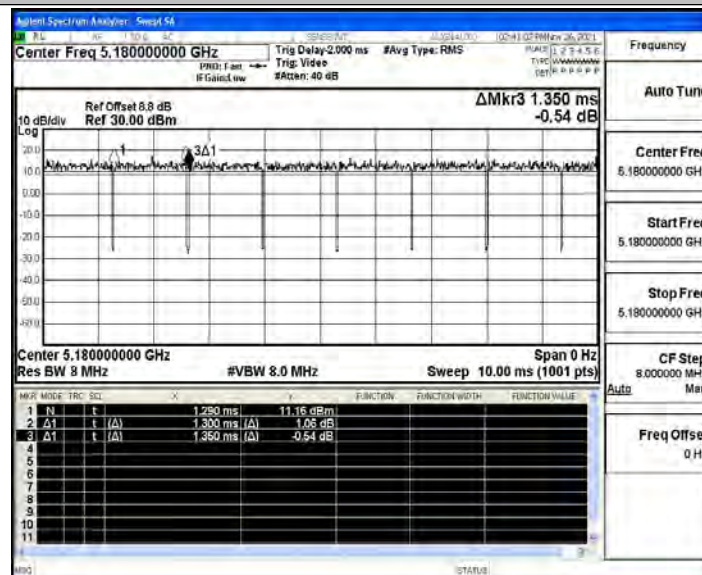
11A_Ant1_5200



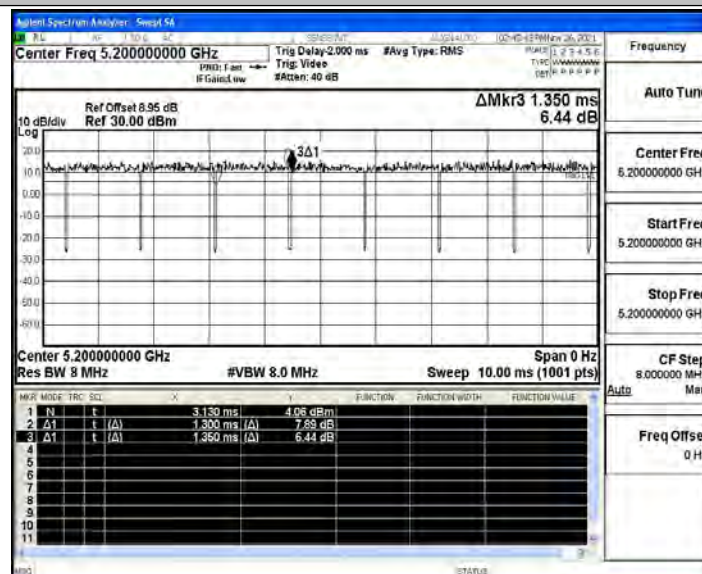
11A_Ant1_5240



11N20SISO_Ant1_5180

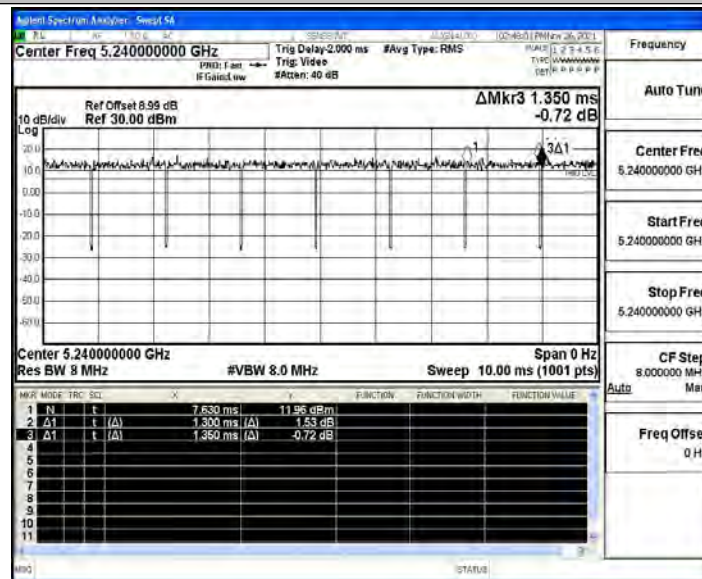


11N20SISO_Ant1_5200

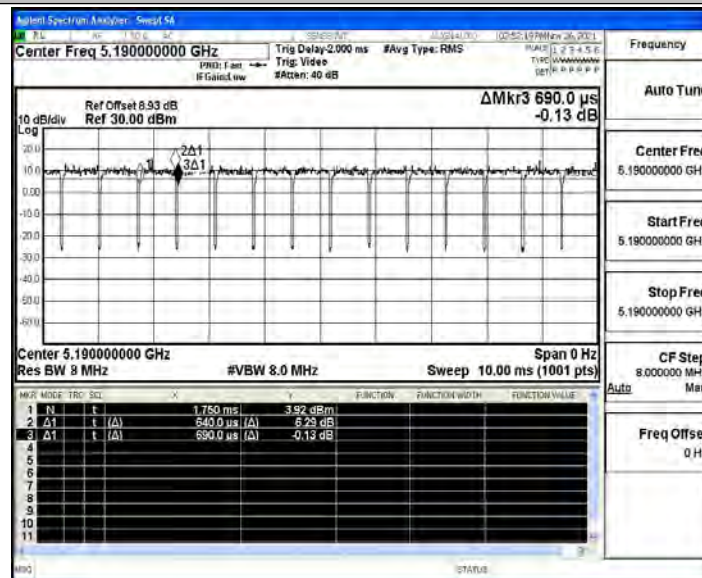




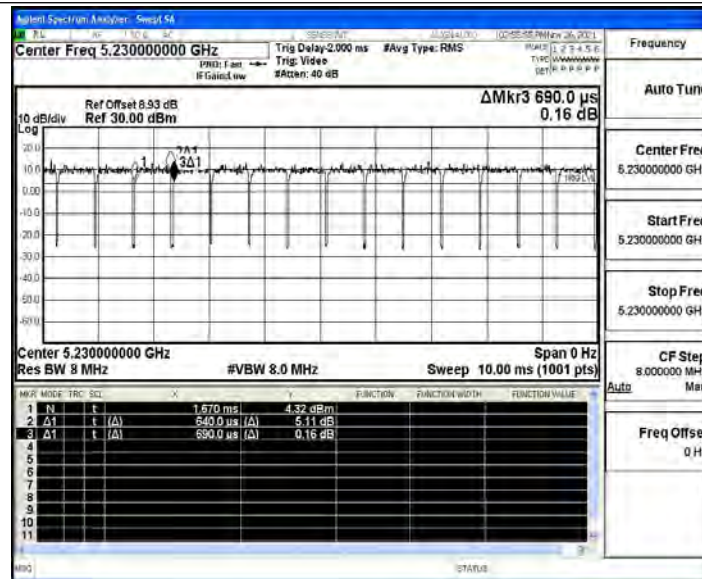
11N20SISO_Ant1_5240



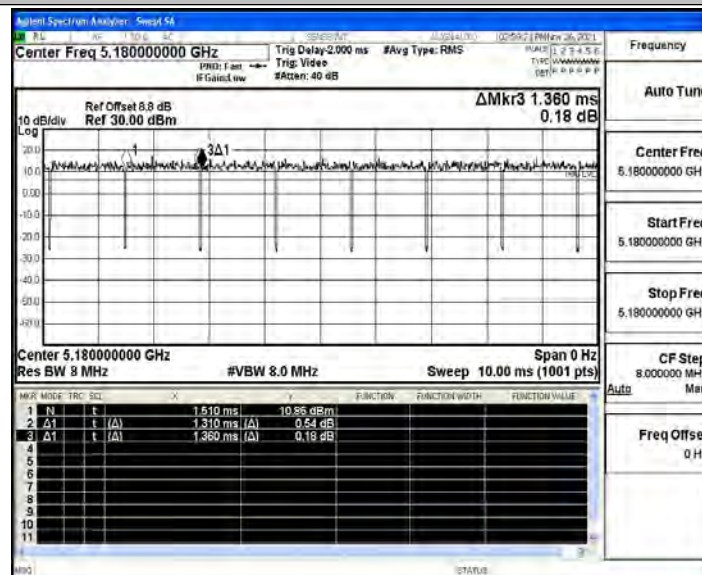
11N40SISO_Ant1_5190



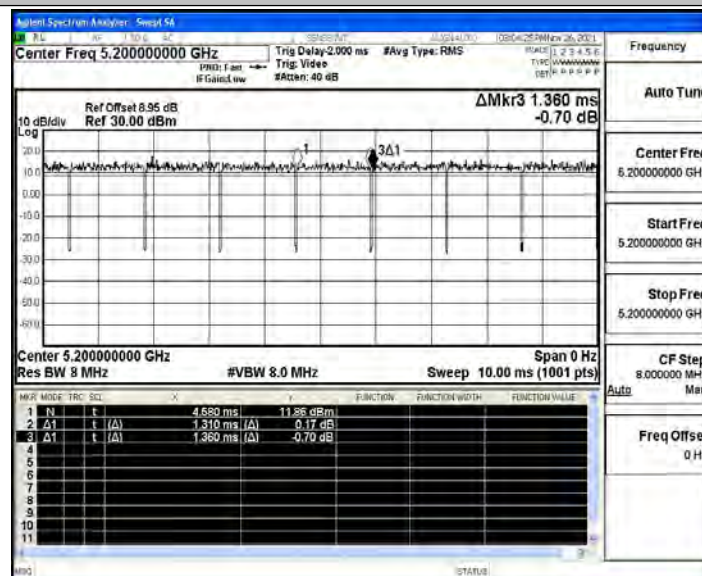
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

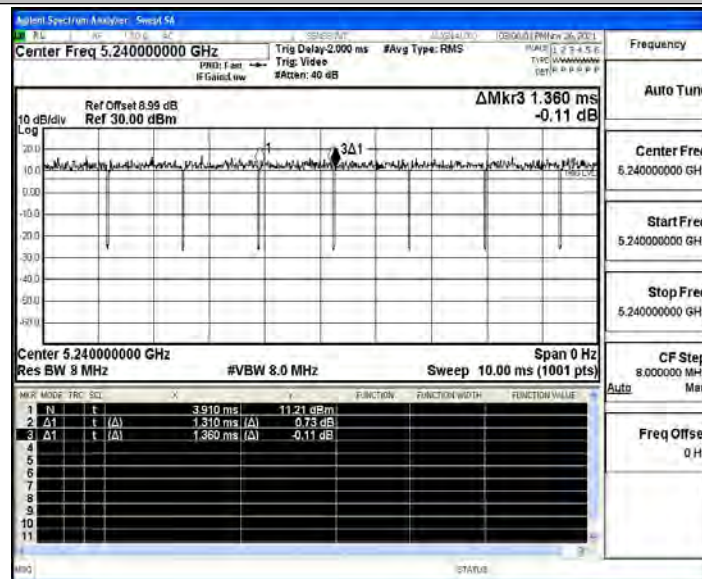


11AC20SISO_Ant1_5200

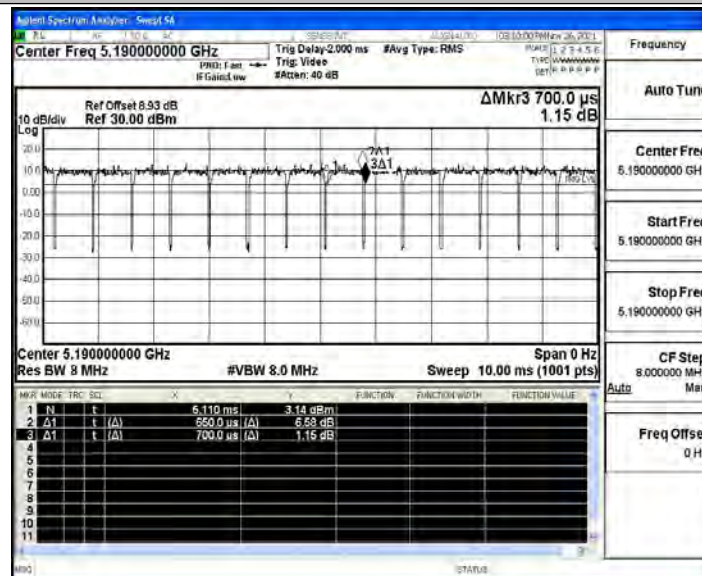




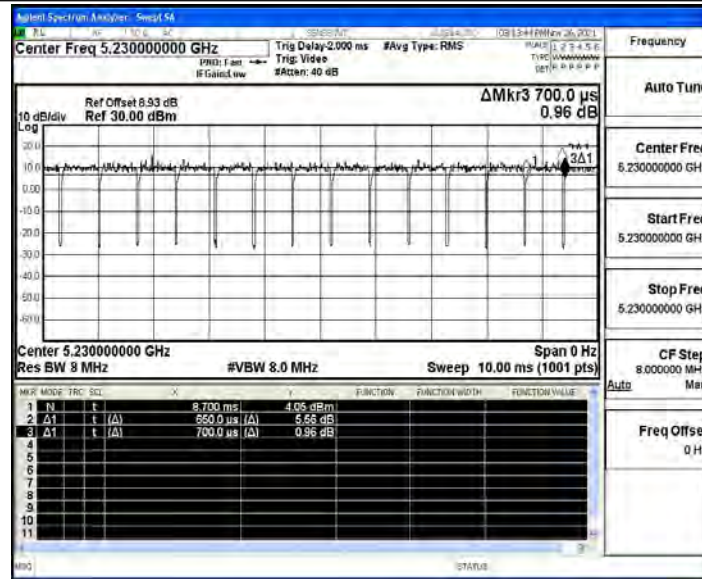
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

