



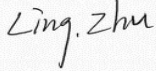

Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Tablet

Test Model: 10LA1

Environmental Conditions

Temperature:	22.5°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



D.1 Emission Bandwidth

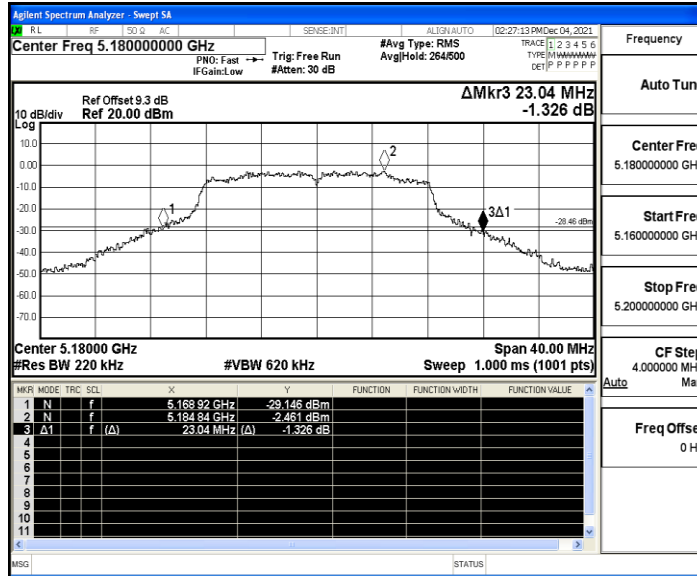
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.040	5168.920	5191.960	---	PASS
		5200	23.280	5188.280	5211.560	---	PASS
		5240	22.600	5228.960	5251.560	---	PASS
11N20SISO	Ant1	5180	22.280	5168.760	5191.040	---	PASS
		5200	23.080	5188.400	5211.480	---	PASS
		5240	23.840	5228.400	5252.240	---	PASS
11N40SISO	Ant1	5190	42.240	5168.960	5211.200	---	PASS
		5230	42.800	5208.720	5251.520	---	PASS
11AC20SISO	Ant1	5180	23.240	5168.440	5191.680	---	PASS
		5200	23.000	5188.480	5211.480	---	PASS
		5240	22.680	5228.520	5251.200	---	PASS
11AC40SISO	Ant1	5190	41.920	5169.120	5211.040	---	PASS
		5230	43.120	5207.840	5250.960	---	PASS
11AC80SISO	Ant1	5210	80.800	5169.520	5250.320	---	PASS

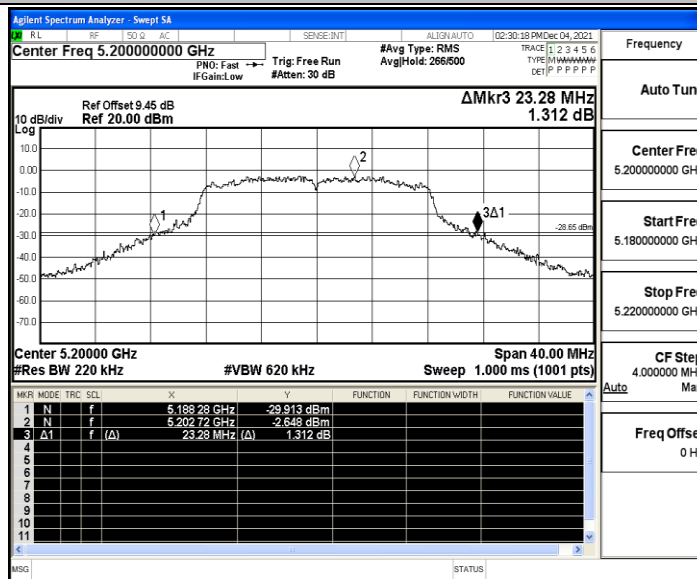


Test Graphs

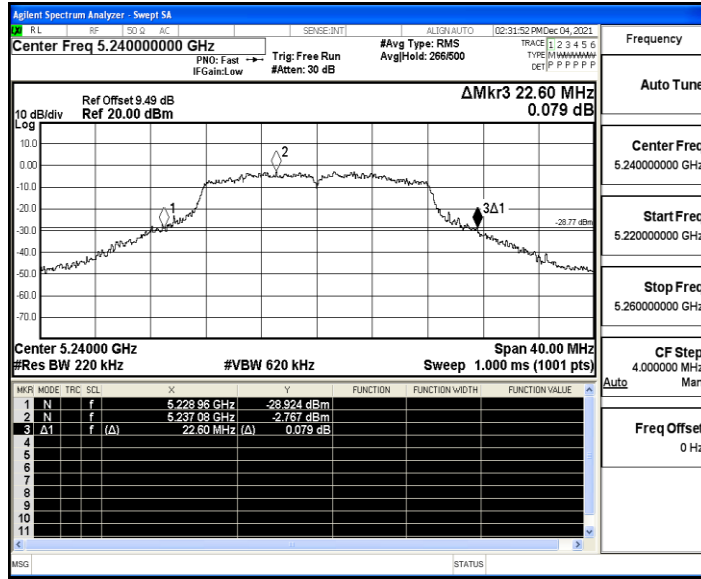
11A_Ant1_5180



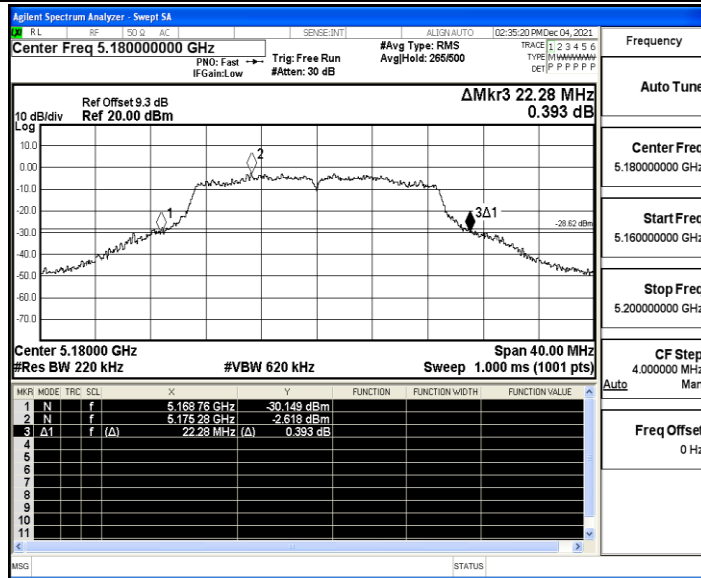
11A_Ant1_5200



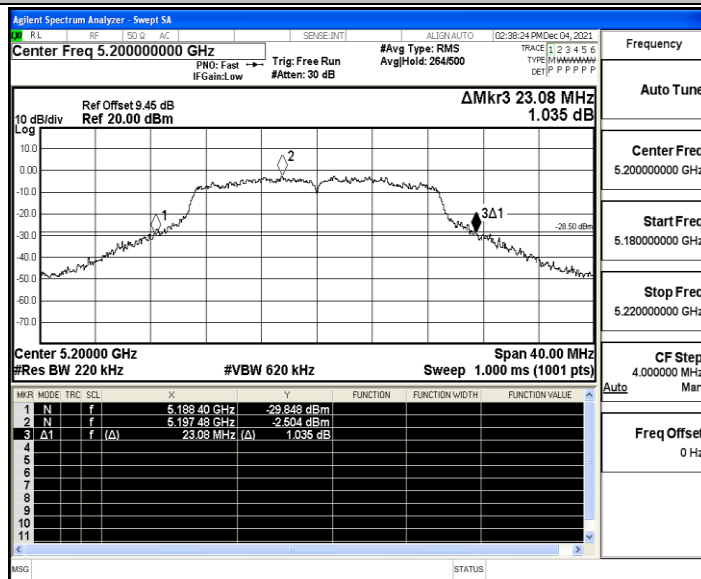
11A_Ant1_5240



11N20SISO_Ant1_5180

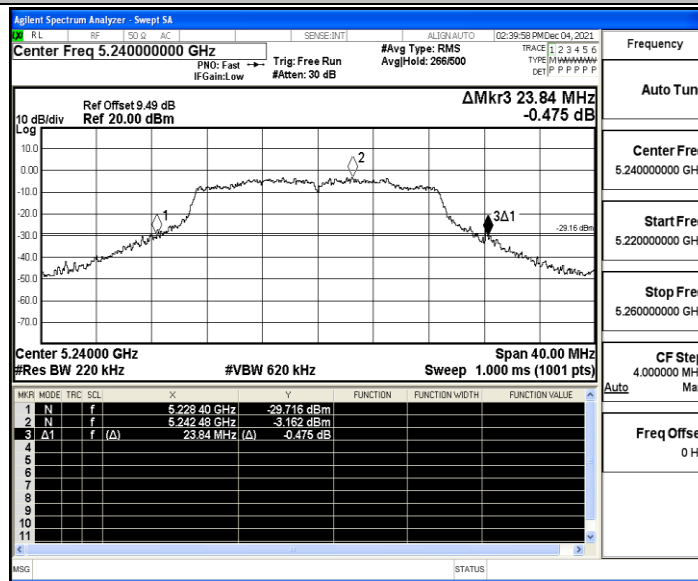


11N20SISO_Ant1_5200

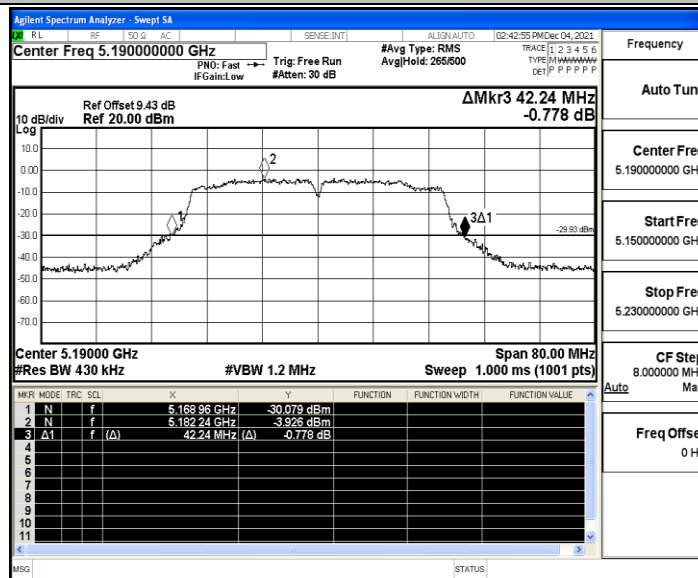




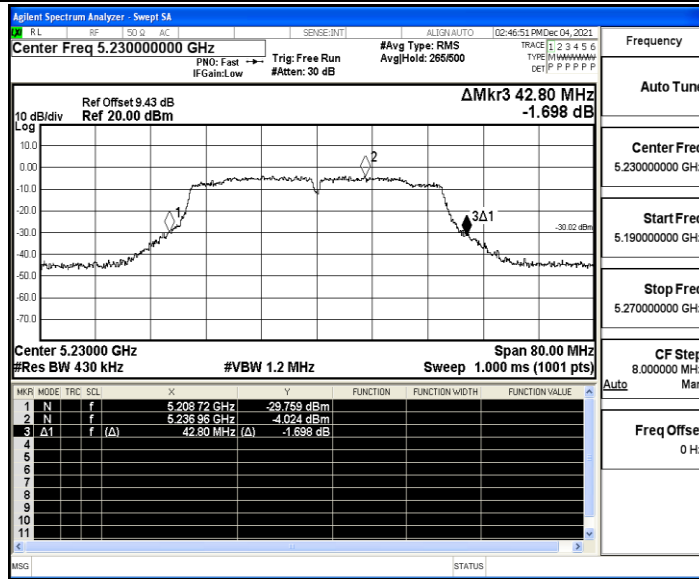
11N20SISO_Ant1_5240



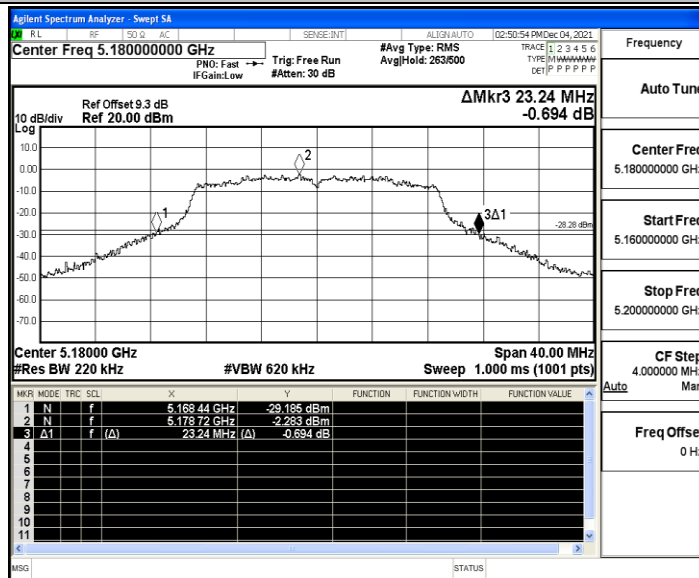
11N40SISO_Ant1_5190



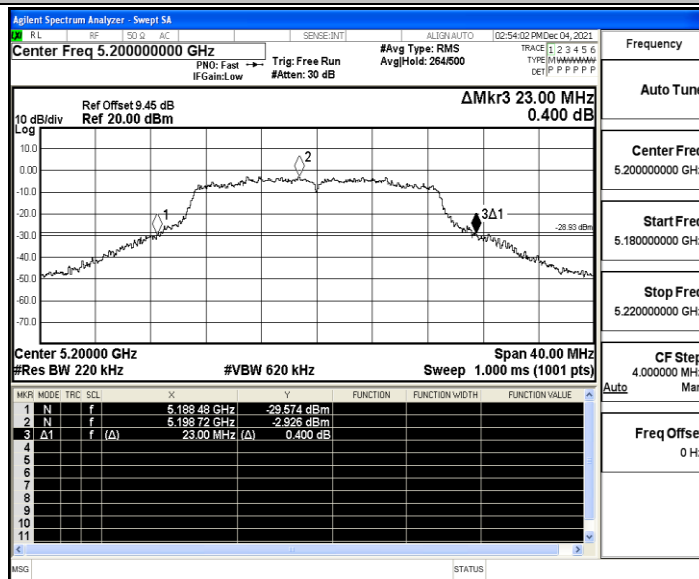
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

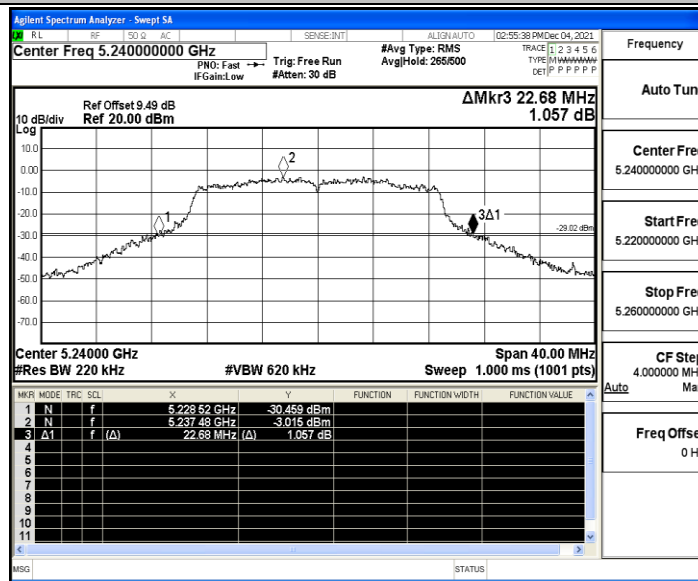


11AC20SISO_Ant1_5200

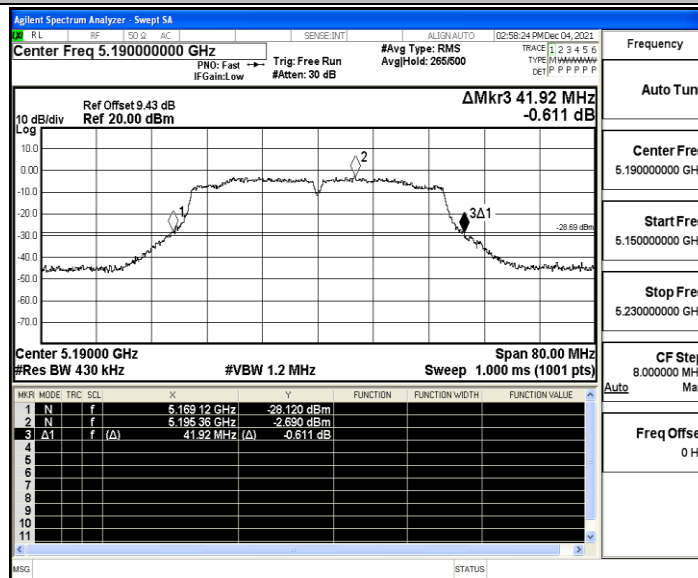




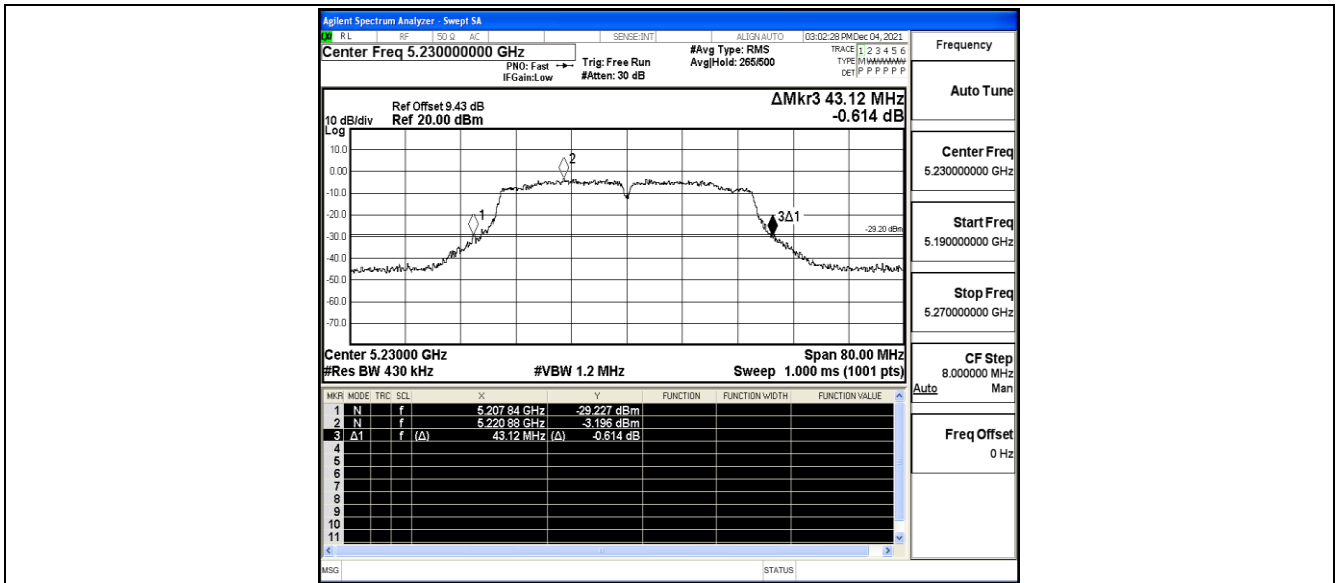
11AC20SISO_Ant1_5240



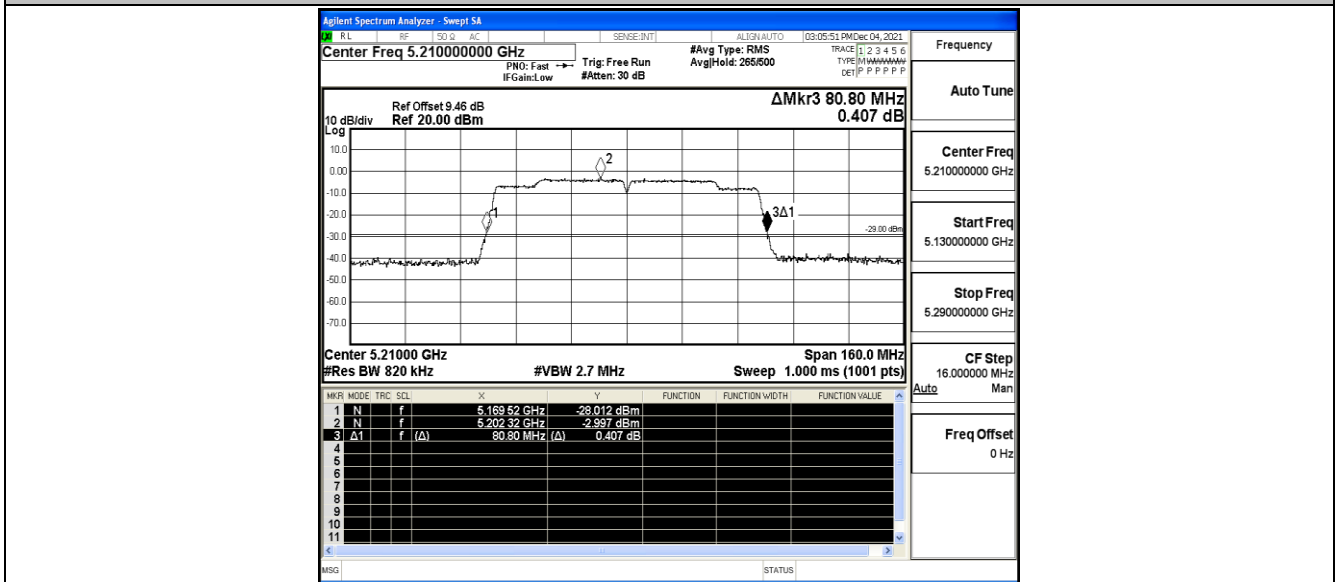
11AC40SISO_Ant1_5190



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	13.21	≤ 23.98	PASS
		5200	14.22	≤ 23.98	PASS
		5240	14.31	≤ 23.98	PASS
11N20SISO	Ant1	5180	13.72	≤ 23.98	PASS
		5200	13.21	≤ 23.98	PASS
		5240	13.52	≤ 23.98	PASS
11N40SISO	Ant1	5190	12.32	≤ 23.98	PASS
		5230	13.65	≤ 23.98	PASS
11AC20SISO	Ant1	5180	12.12	≤ 23.98	PASS
		5200	13.02	≤ 23.98	PASS
		5240	13.12	≤ 23.98	PASS
11AC40SISO	Ant1	5190	12.32	≤ 23.98	PASS
		5230	13.21	≤ 23.98	PASS
11AC80SISO	Ant1	5210	12.13	≤ 23.98	PASS

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



D.3 Maximum power spectral density

Test Result

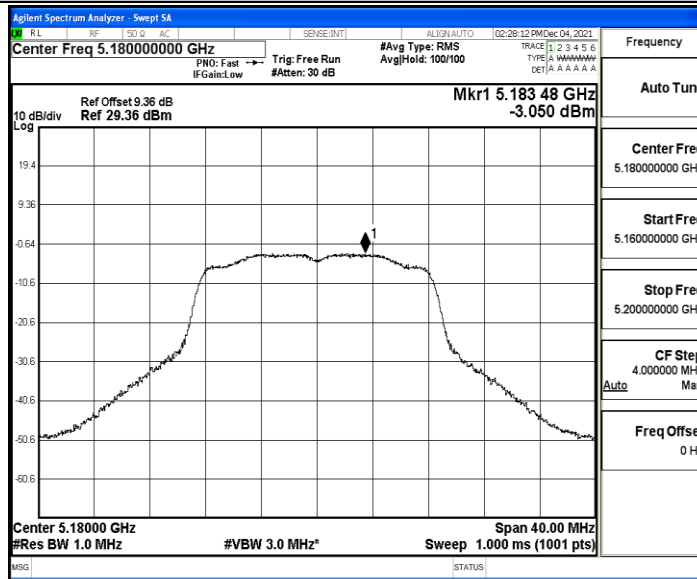
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-2.98	≤11	PASS
		5200	-3.24	≤11	PASS
		5240	-3.46	≤11	PASS
11N20SISO	Ant1	5180	-3.54	≤11	PASS
		5200	-3.58	≤11	PASS
		5240	-3.55	≤11	PASS
11N40SISO	Ant1	5190	-6.3	≤11	PASS
		5230	-6.84	≤11	PASS
11AC20SISO	Ant1	5180	-3.07	≤11	PASS
		5200	-3.34	≤11	PASS
		5240	-3.55	≤11	PASS
11AC40SISO	Ant1	5190	-6.59	≤11	PASS
		5230	-6.42	≤11	PASS
11AC80SISO	Ant1	5210	-9.25	≤11	PASS

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

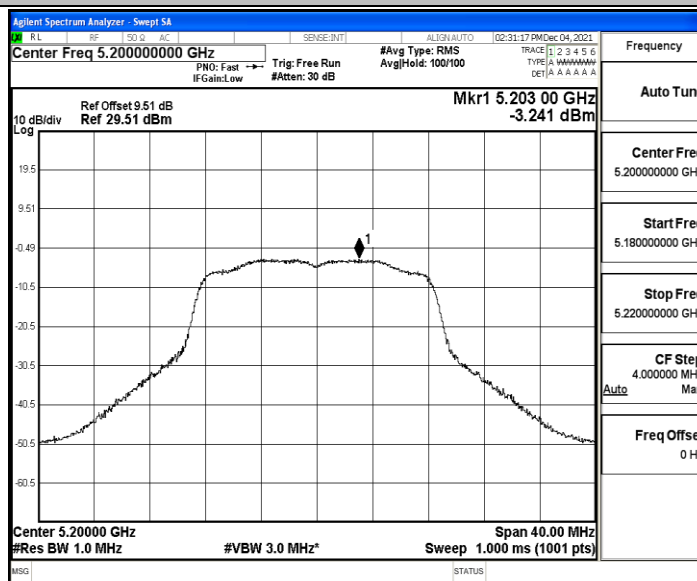


Test Graphs

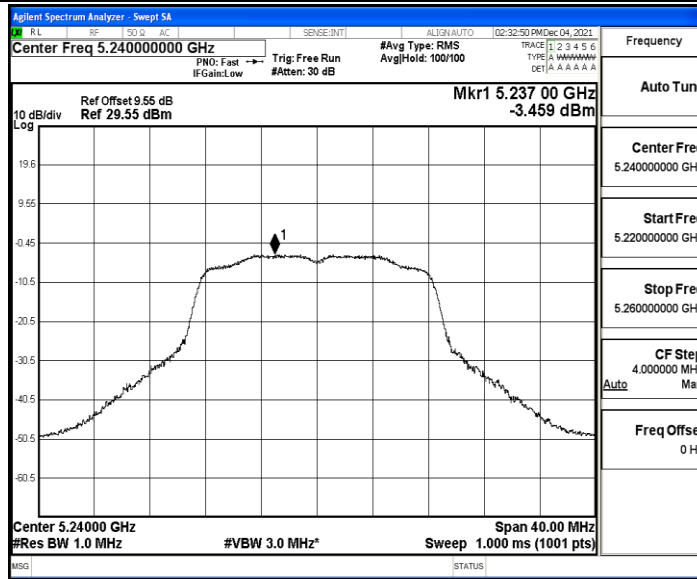
11A_Ant1_5180



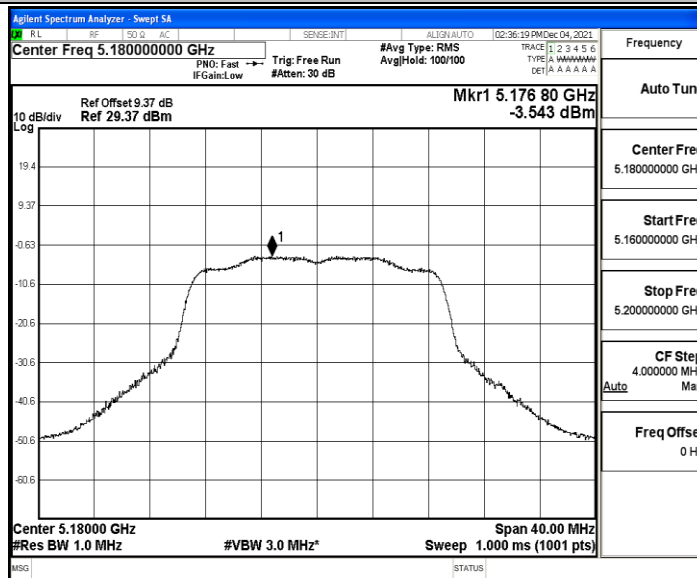
11A_Ant1_5200



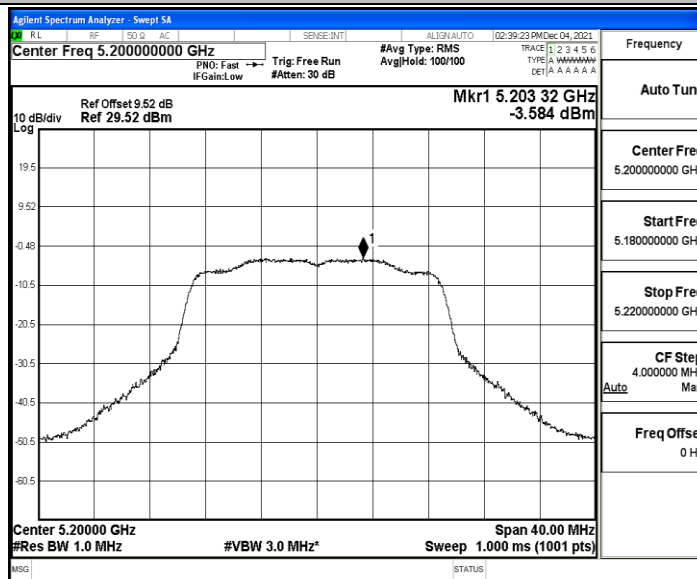
11A_Ant1_5240



11N20SISO_Ant1_5180

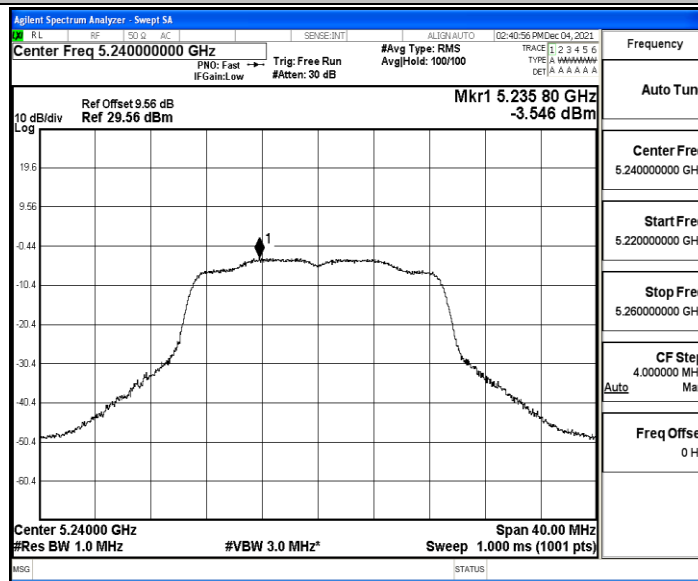


11N20SISO_Ant1_5200

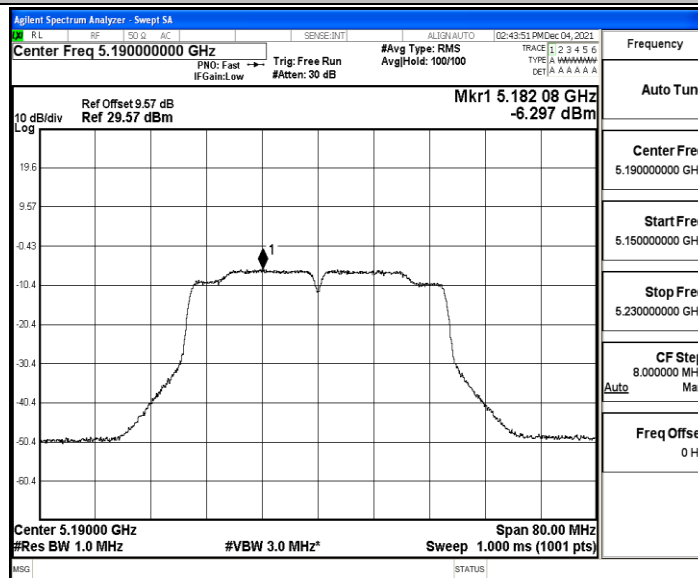




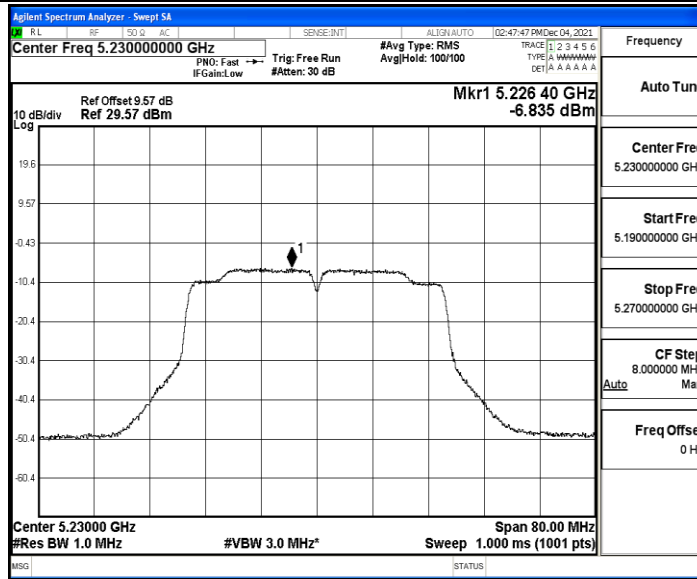
11N20SISO_Ant1_5240



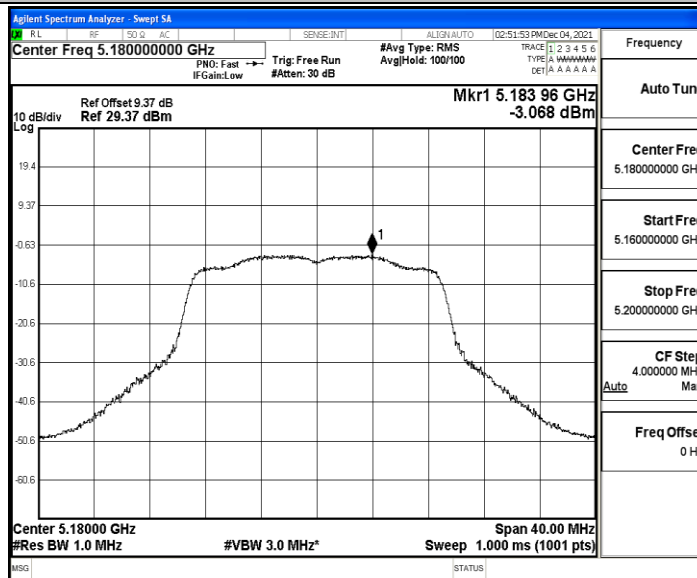
11N40SISO_Ant1_5190



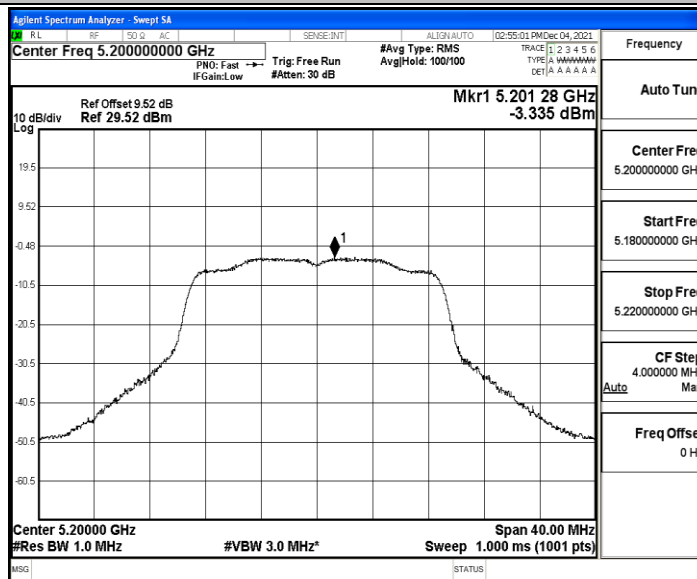
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

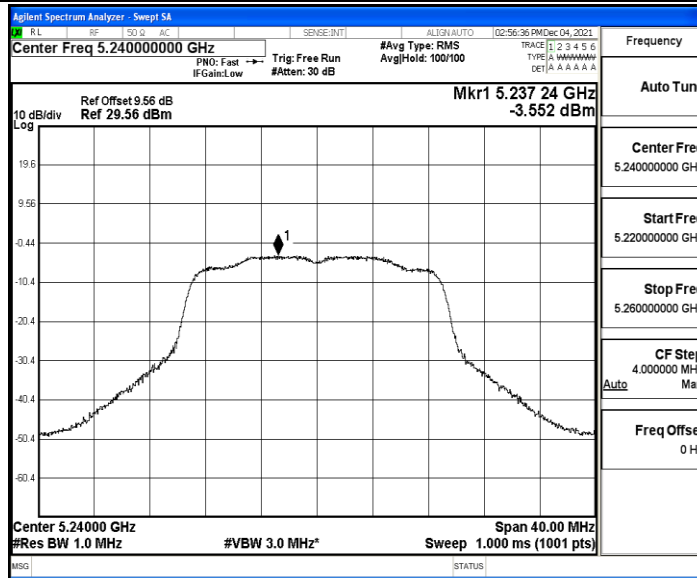


11AC20SISO_Ant1_5200

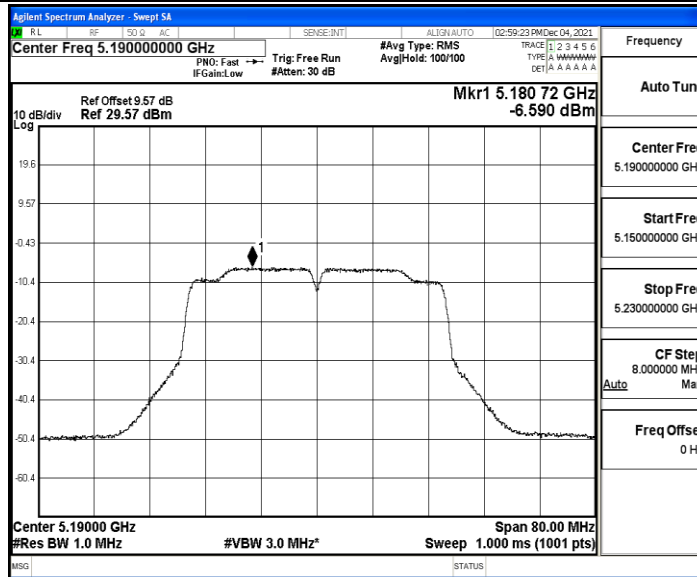




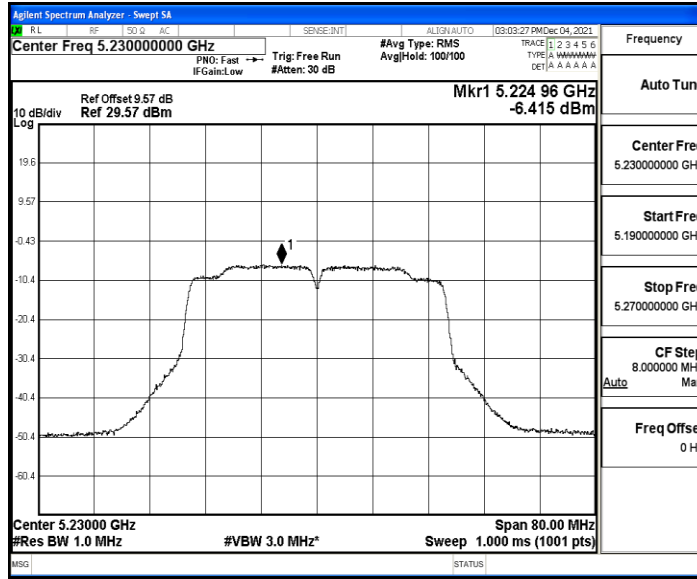
11AC20SISO_Ant1_5240



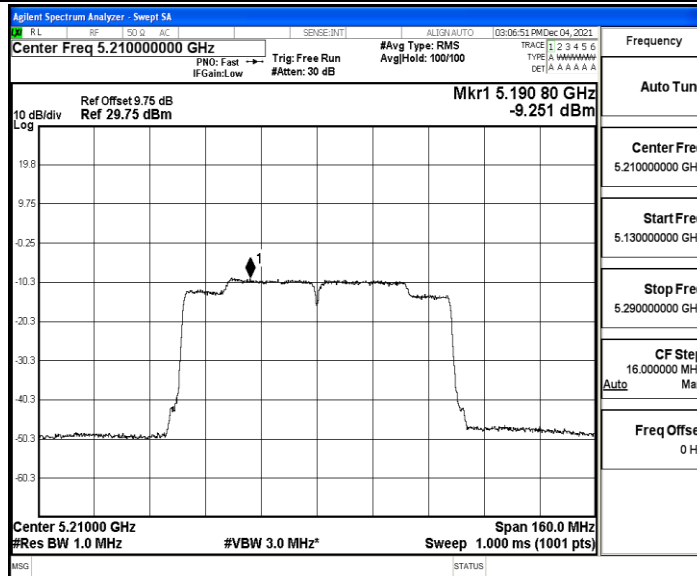
11AC40SISO_Ant1_5190



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	-47.72	≤-41.20	47.48	≤54	PASS
				AV	5133.500	-44.65	≤-41.20	50.55	≤54	PASS
				AV	5150.000	-45.88	≤-41.20	49.32	≤54	PASS
				Peak	4500.000	-43.8	≤-21.20	51.40	≤68.2	PASS
				Peak	4870.300	-37.77	≤-21.20	57.43	≤68.2	PASS
				Peak	5150.000	-40.31	≤-21.20	54.89	≤68.2	PASS
		High	5240	AV	5350.000	-46.51	≤-41.20	48.69	≤54	PASS
				AV	5377.680	-44.81	≤-41.20	50.39	≤54	PASS
				AV	5460.000	-46.16	≤-41.20	49.04	≤54	PASS
				Peak	5350.000	-41.16	≤-21.20	54.04	≤68.2	PASS
				Peak	5424.000	-37.77	≤-21.20	57.43	≤68.2	PASS
				Peak	5460.000	-42.14	≤-21.20	53.06	≤68.2	PASS
11N20SI SO	Ant1	Low	5180	AV	4500.000	-47.82	≤-41.20	47.38	≤54	PASS
				AV	4901.100	-44.74	≤-41.20	50.46	≤54	PASS
				AV	5150.000	-45.91	≤-41.20	49.29	≤54	PASS
				Peak	4500.000	-41.67	≤-21.20	53.53	≤68.2	PASS
				Peak	4803.100	-35.71	≤-21.20	59.49	≤68.2	PASS
				Peak	5150.000	-42.2	≤-21.20	53.00	≤68.2	PASS
		High	5240	AV	5350.000	-46.42	≤-41.20	48.78	≤54	PASS
				AV	5367.120	-45.28	≤-41.20	49.92	≤54	PASS
				AV	5460.000	-46.59	≤-41.20	48.61	≤54	PASS
				Peak	5350.000	-41.2	≤-21.20	54.00	≤68.2	PASS
				Peak	5398.320	-37.71	≤-21.20	57.49	≤68.2	PASS
				Peak	5460.000	-42.78	≤-21.20	52.42	≤68.2	PASS
11N40SI SO	Ant1	Low	5190	AV	4500.000	-48.54	≤-41.20	46.66	≤54	PASS
				AV	4818.500	-46.1	≤-41.20	49.10	≤54	PASS
				AV	5150.000	-46.42	≤-41.20	48.78	≤54	PASS
				Peak	4500.000	-40.45	≤-21.20	54.75	≤68.2	PASS
				Peak	4803.800	-36.72	≤-21.20	58.48	≤68.2	PASS
				Peak	5150.000	-40.54	≤-21.20	54.66	≤68.2	PASS
		High	5230	AV	5350.000	-46.99	≤-41.20	48.21	≤54	PASS
				AV	5355.220	-46.88	≤-41.20	48.32	≤54	PASS
				AV	5460.000	-47.43	≤-41.20	47.77	≤54	PASS
				Peak	5350.000	-39.96	≤-21.20	55.24	≤68.2	PASS
				Peak	5399.420	-37.57	≤-21.20	57.63	≤68.2	PASS
				Peak	5460.000	-40.73	≤-21.20	54.47	≤68.2	PASS
11AC20S	Ant1	Low	5180	AV	4500.000	-47.8	≤-41.20	47.40	≤54	PASS



ISO				AV	4838.100	-44.82	≤ -41.20	50.38	≤ 54	PASS
				AV	5150.000	-46.32	≤ -41.20	48.88	≤ 54	PASS
				Peak	4500.000	-43.49	≤ -21.20	51.71	≤ 68.2	PASS
				Peak	5013.800	-37.85	≤ -21.20	57.35	≤ 68.2	PASS
				Peak	5150.000	-43.39	≤ -21.20	51.81	≤ 68.2	PASS
		High	5240	AV	5350.000	-46.41	≤ -41.20	48.79	≤ 54	PASS
				AV	5390.880	-45.25	≤ -41.20	49.95	≤ 54	PASS
				AV	5460.000	-46.1	≤ -41.20	49.10	≤ 54	PASS
				Peak	5350.000	-42.14	≤ -21.20	53.06	≤ 68.2	PASS
				Peak	5459.760	-38.67	≤ -21.20	56.53	≤ 68.2	PASS
				Peak	5460.000	-38.8	≤ -21.20	56.40	≤ 68.2	PASS
11AC40S ISO	Ant1	Low	5190	AV	4500.000	-48.58	≤ -41.20	46.62	≤ 54	PASS
				AV	4817.800	-46.27	≤ -41.20	48.93	≤ 54	PASS
				AV	5150.000	-46.48	≤ -41.20	48.72	≤ 54	PASS
				Peak	4500.000	-40.76	≤ -21.20	54.44	≤ 68.2	PASS
				Peak	4818.500	-37.07	≤ -21.20	58.13	≤ 68.2	PASS
				Peak	5150.000	-38.9	≤ -21.20	56.30	≤ 68.2	PASS
		High	5230	AV	5350.000	-47	≤ -41.20	48.20	≤ 54	PASS
				AV	5378.620	-46.74	≤ -41.20	48.46	≤ 54	PASS
				AV	5460.000	-47.33	≤ -41.20	47.87	≤ 54	PASS
				Peak	5350.000	-41.05	≤ -21.20	54.15	≤ 68.2	PASS
				Peak	5416.320	-36.71	≤ -21.20	58.49	≤ 68.2	PASS
				Peak	5460.000	-40.69	≤ -21.20	54.51	≤ 68.2	PASS
11AC80S ISO	Ant1	Low	5210	AV	4500.000	-48.13	≤ -41.20	47.07	≤ 54	PASS
				AV	5143.500	-45.15	≤ -41.20	50.05	≤ 54	PASS
				AV	5150.000	-45.48	≤ -41.20	49.72	≤ 54	PASS
				Peak	4500.000	-41.54	≤ -21.20	53.66	≤ 68.2	PASS
				Peak	4816.500	-37.13	≤ -21.20	58.07	≤ 68.2	PASS
				Peak	5150.000	-37.31	≤ -21.20	57.89	≤ 68.2	PASS
		High	5210	AV	5350.000	-46.88	≤ -41.20	48.32	≤ 54	PASS
				AV	5378.800	-46.28	≤ -41.20	48.92	≤ 54	PASS
				AV	5460.000	-47.11	≤ -41.20	48.09	≤ 54	PASS
				Peak	5350.000	-41.03	≤ -21.20	54.17	≤ 68.2	PASS
				Peak	5397.280	-37.15	≤ -21.20	58.05	≤ 68.2	PASS
				Peak	5460.000	-40.19	≤ -21.20	55.01	≤ 68.2	PASS

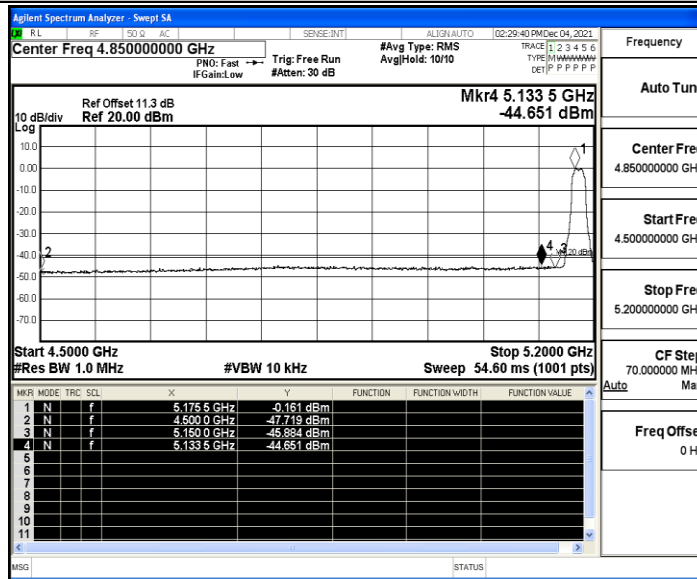
Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5250 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.

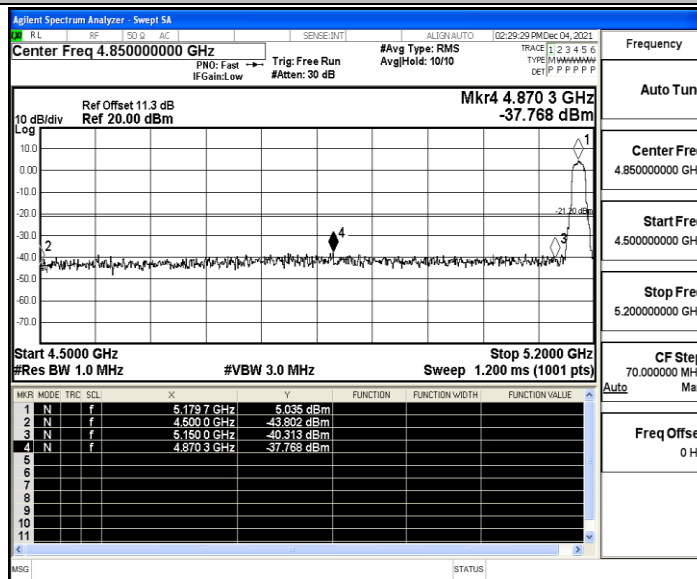


Test Graphs

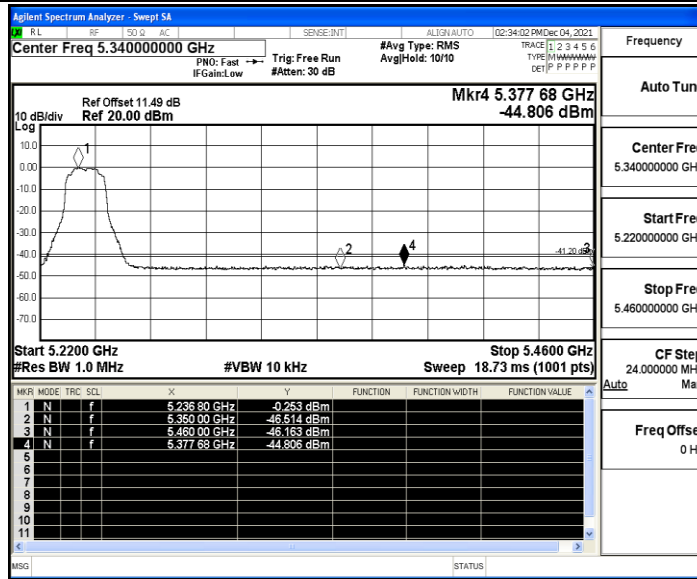
11A_Ant1_Low_5180_AV



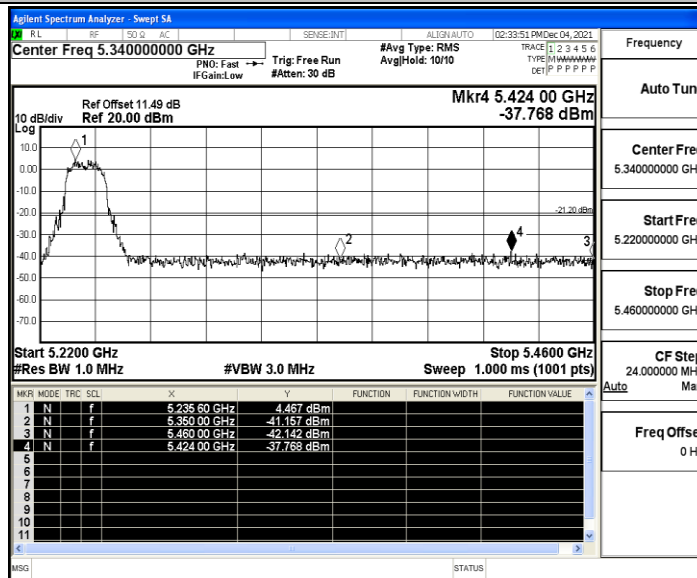
11A_Ant1_Low_5180_Peak



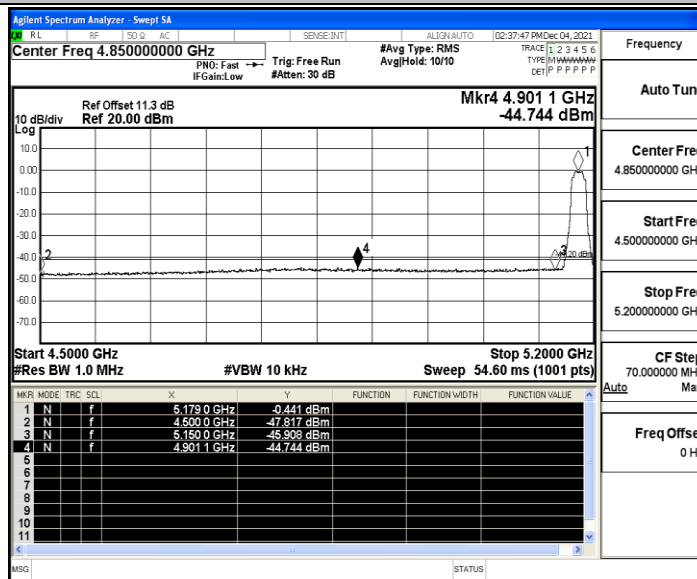
11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak

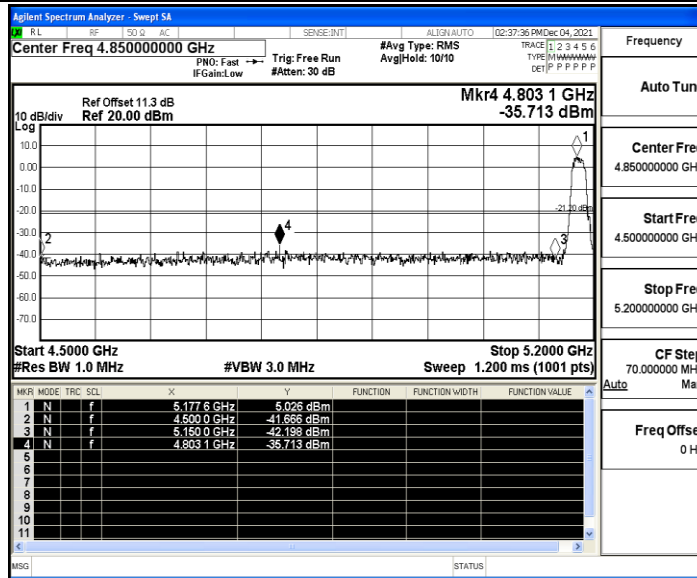


11N20SISO_Ant1_Low_5180_AV

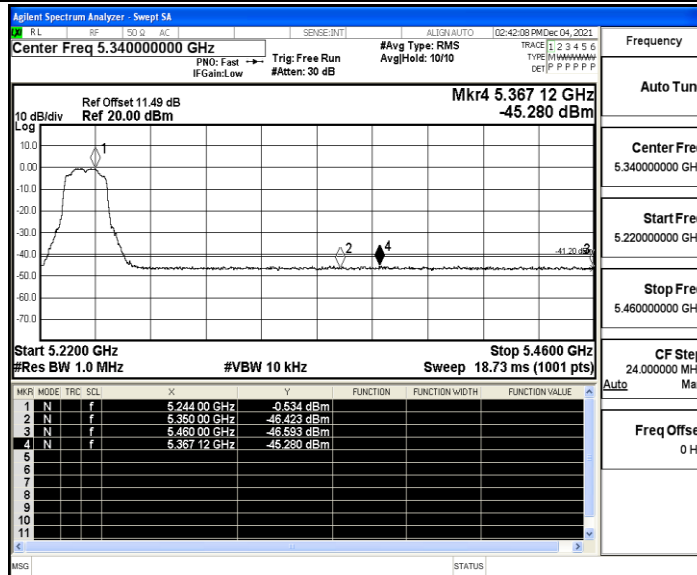




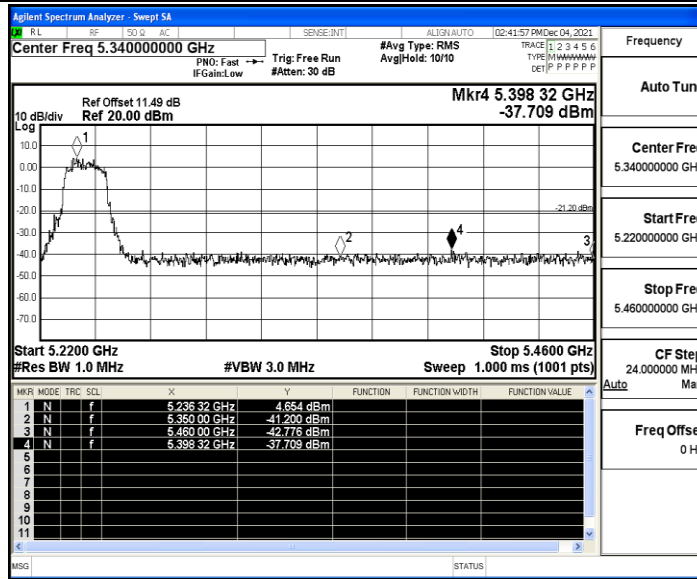
11N20SISO_Ant1_Low_5180_Peak



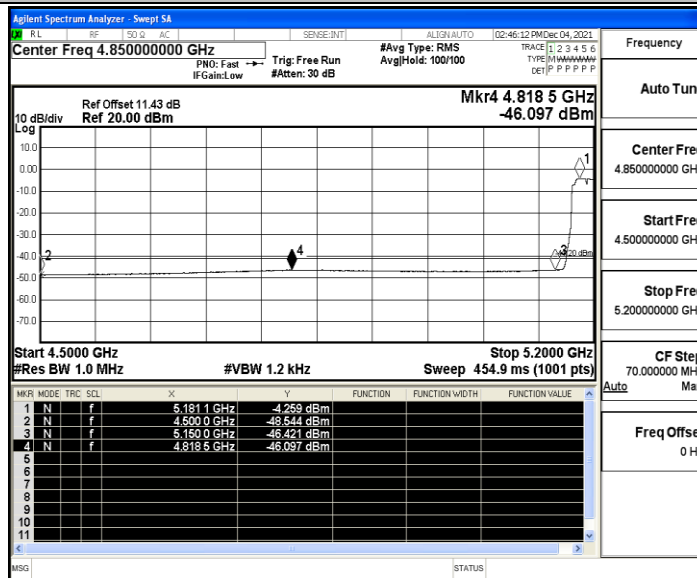
11N20SISO_Ant1_High_5240_AV



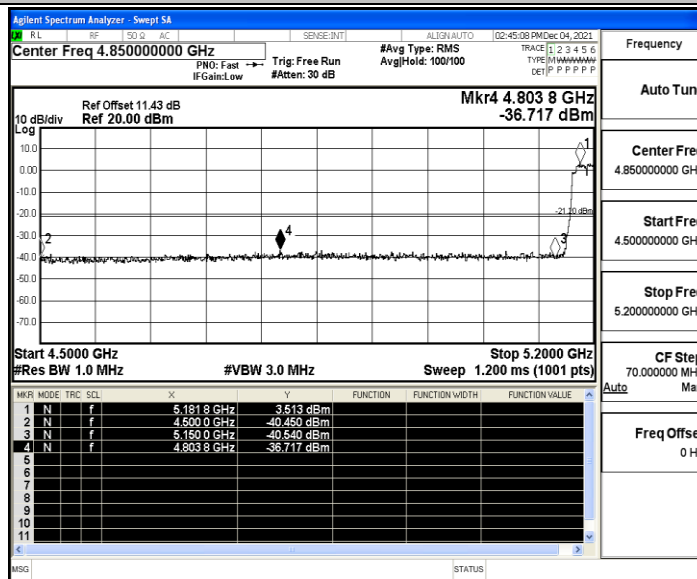
11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

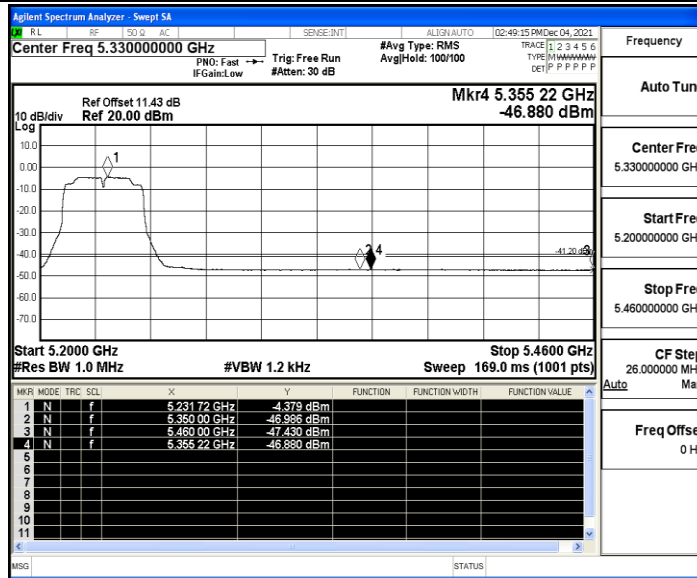


11N40SISO_Ant1_Low_5190_Peak

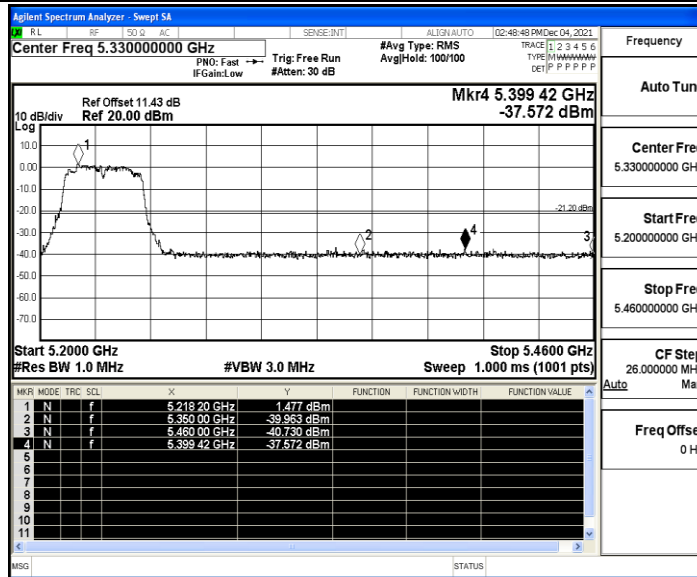




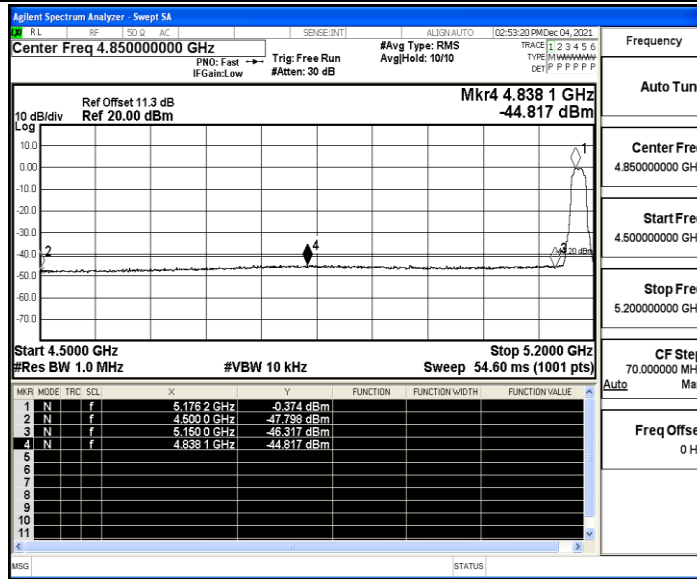
11N40SISO_Ant1_High_5230_AV



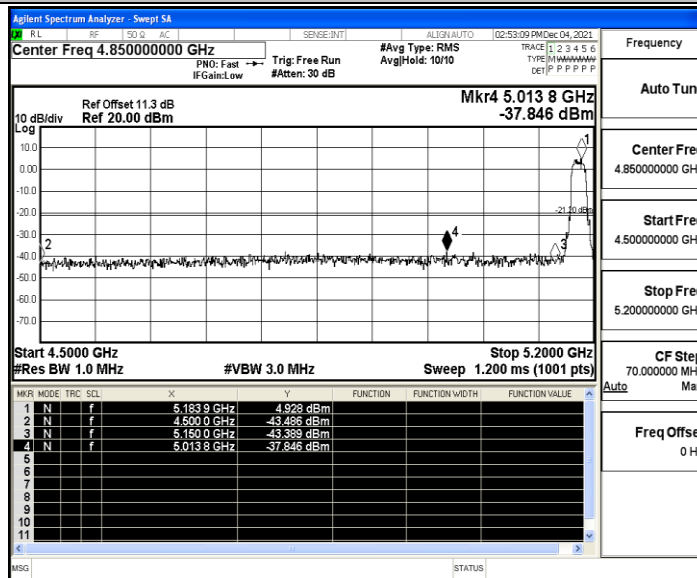
11N40SISO_Ant1_High_5230_Peak



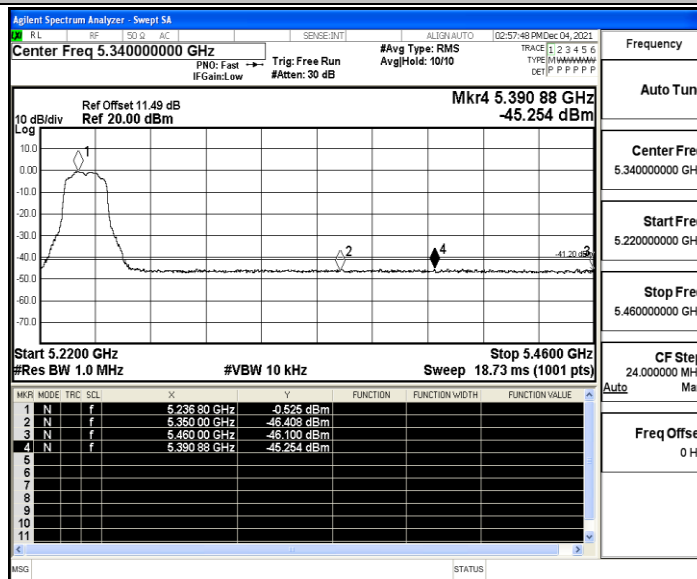
11AC20SISO_Ant1_Low_5180_AV



11AC20SISO_Ant1_Low_5180_Peak

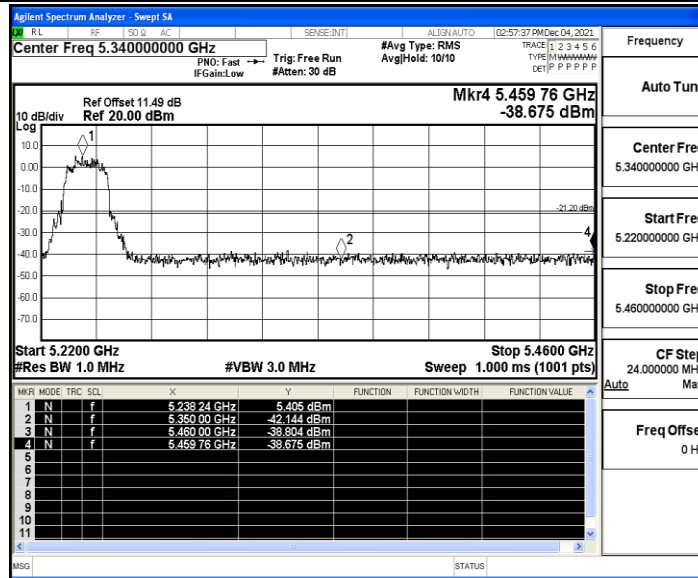


11AC20SISO_Ant1_High_5240_AV

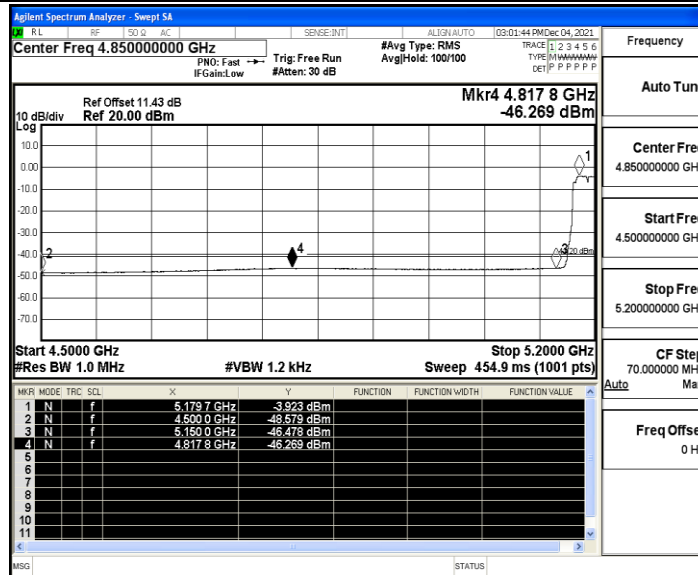




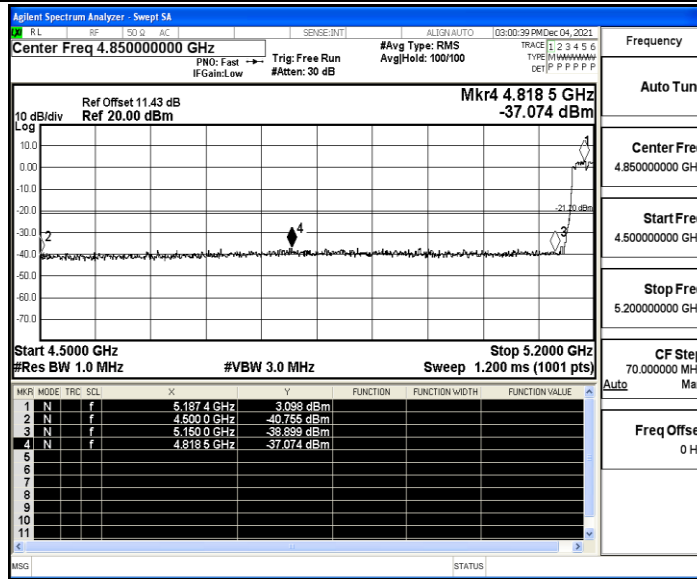
11AC20SISO_Ant1_High_5240_Peak



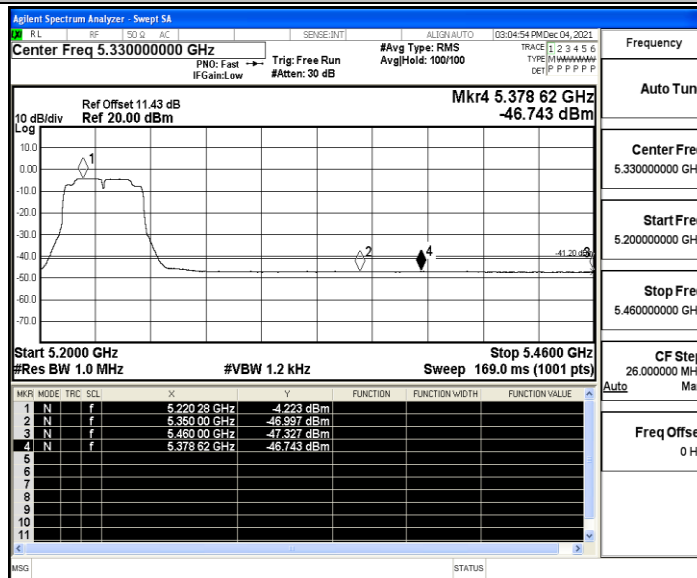
11AC40SISO_Ant1_Low_5190_AV



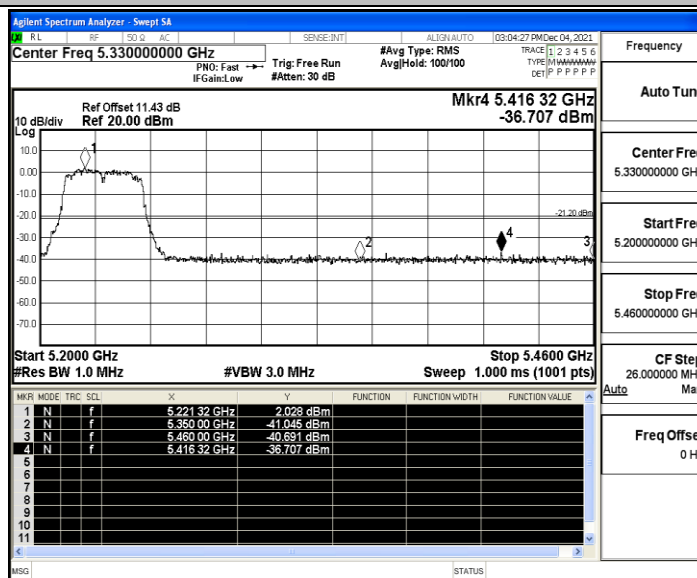
11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

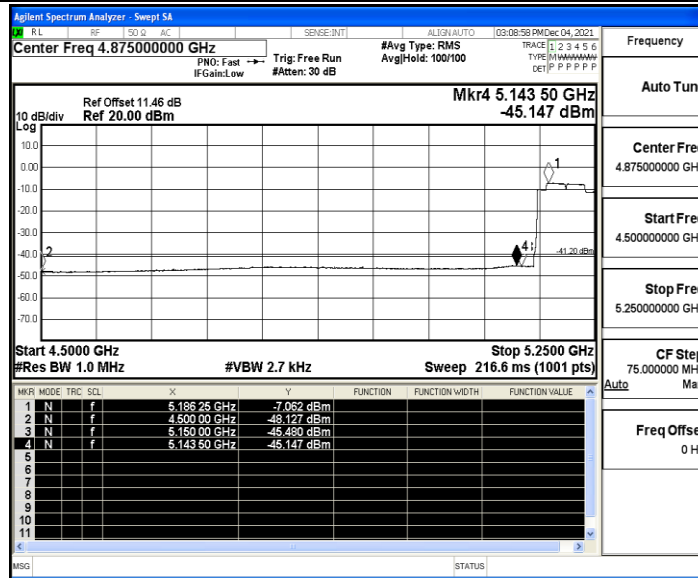


11AC40SISO_Ant1_High_5230_Peak

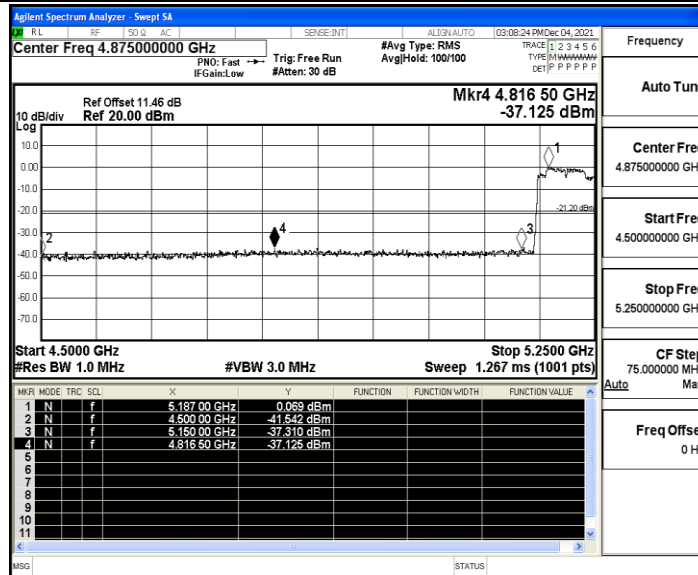




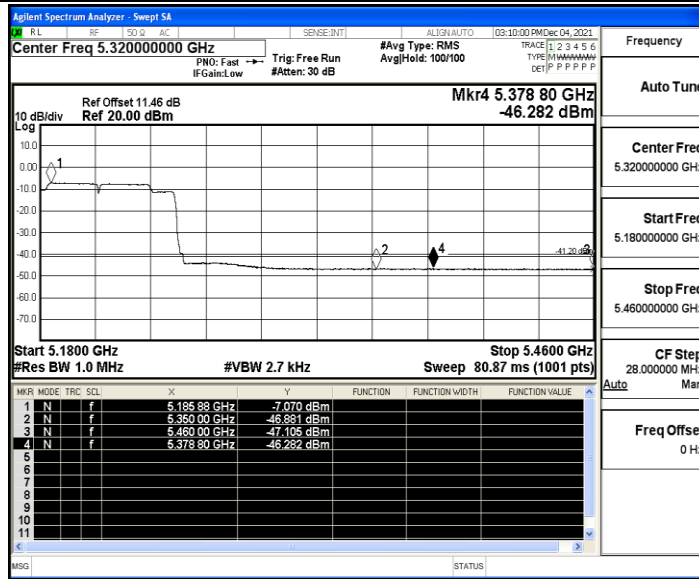
11AC80SISO_Ant1_Low_5210_AV



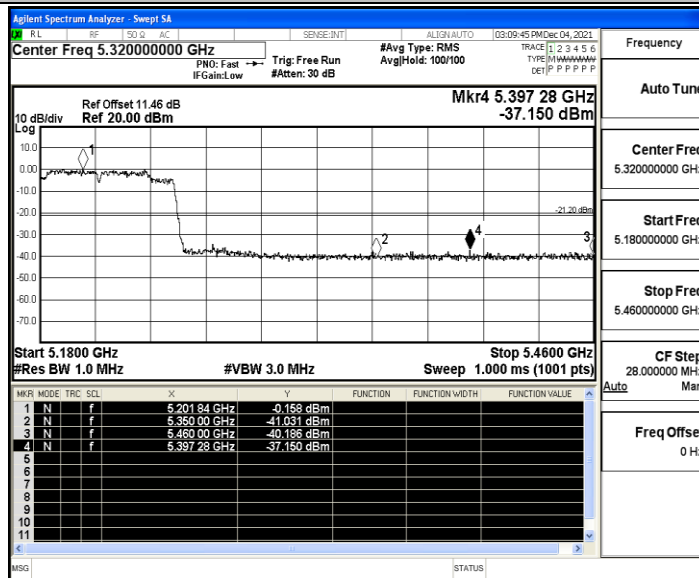
11AC80SISO_Ant1_Low_5210_Peak



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
11AC20SIS O	Ant1	5180	NV	NT	-34000	-6.563707	20	PASS
			LV	NT	-35000	-6.756757	20	PASS
			HV	NT	-35000	-6.756757	20	PASS
		5200	NV	NT	-34000	-6.538462	20	PASS
			LV	NT	-35000	-6.730769	20	PASS
			HV	NT	-35000	-6.730769	20	PASS
		5240	NV	NT	-35000	-6.679389	20	PASS
			LV	NT	-35000	-6.679389	20	PASS
			HV	NT	-35000	-6.679389	20	PASS
11AC40SIS O	Ant1	5190	NV	NT	-34000	-6.55106	20	PASS
			LV	NT	-35000	-6.743738	20	PASS
			HV	NT	-35000	-6.743738	20	PASS
		5230	NV	NT	-35000	-6.692161	20	PASS
			LV	NT	-35000	-6.692161	20	PASS
			HV	NT	-35000	-6.692161	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	-35000	-6.71785	20	PASS
			LV	NT	-35000	-6.71785	20	PASS
			HV	NT	-35000	-6.71785	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5180	NV	-30	-35000	-6.756757	20	PASS
			NV	-20	-34000	-6.563707	20	PASS
			NV	-10	-35000	-6.756757	20	PASS
			NV	0	-35000	-6.756757	20	PASS
			NV	10	-35000	-6.756757	20	PASS
			NV	20	-35000	-6.756757	20	PASS
			NV	30	-35000	-6.756757	20	PASS
			NV	40	-35000	-6.756757	20	PASS
			NV	50	-35000	-6.756757	20	PASS
		5200	NV	-30	-35000	-6.730769	20	PASS
			NV	-20	-35000	-6.730769	20	PASS
			NV	-10	-35000	-6.730769	20	PASS
			NV	0	-35000	-6.730769	20	PASS
			NV	10	-35000	-6.730769	20	PASS
			NV	20	-35000	-6.730769	20	PASS



			NV	20	-35000	-6.730769	20	PASS
			NV	30	-35000	-6.730769	20	PASS
			NV	40	-35000	-6.730769	20	PASS
			NV	50	-35000	-6.730769	20	PASS
		5240	NV	-30	-35000	-6.679389	20	PASS
			NV	-20	-35000	-6.679389	20	PASS
			NV	-10	-35000	-6.679389	20	PASS
			NV	0	-35000	-6.679389	20	PASS
			NV	10	-35000	-6.679389	20	PASS
			NV	20	-36000	-6.870229	20	PASS
			NV	30	-35000	-6.679389	20	PASS
			NV	40	-36000	-6.870229	20	PASS
			NV	50	-35000	-6.679389	20	PASS
			11AC40SIS O	Ant1	5190	NV	-30	-35000
NV	-20	-35000				-6.743738	20	PASS
NV	-10	-35000				-6.743738	20	PASS
NV	0	-35000				-6.743738	20	PASS
NV	10	-35000				-6.743738	20	PASS
NV	20	-35000				-6.743738	20	PASS
NV	30	-35000				-6.743738	20	PASS
NV	40	-35000				-6.743738	20	PASS
NV	50	-35000			-6.743738	20	PASS	
5230	NV	-30			-35000	-6.692161	20	PASS
	NV	-20			-35000	-6.692161	20	PASS
	NV	-10			-35000	-6.692161	20	PASS
	NV	0			-35000	-6.692161	20	PASS
	NV	10			-35000	-6.692161	20	PASS
	NV	20	-35000	-6.692161	20	PASS		
11AC80SIS O	Ant1	5210	NV	-30	-35000	-6.71785	20	PASS
			NV	-20	-35000	-6.71785	20	PASS
			NV	-10	-35000	-6.71785	20	PASS
			NV	0	-35000	-6.71785	20	PASS
			NV	10	-35000	-6.71785	20	PASS
			NV	20	-35000	-6.71785	20	PASS
			NV	30	-35000	-6.71785	20	PASS
			NV	40	-35000	-6.71785	20	PASS
NV	50	-35000	-6.71785	20	PASS			



D.6 Duty Cycle

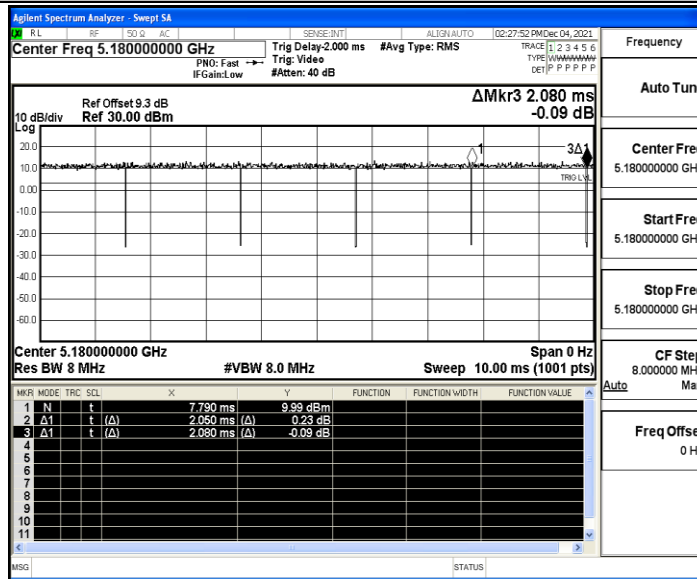
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T (Hz)	Limit	Verdict
11A	Ant1	5180	2.05	2.08	98.56	487.80	---	PASS
		5200	2.04	2.07	98.55	490.20	---	PASS
		5240	2.05	2.08	98.56	487.80	---	PASS
11N20SISO	Ant1	5180	1.90	1.93	98.45	526.32	---	PASS
		5200	1.91	1.94	98.45	523.56	---	PASS
		5240	1.90	1.93	98.45	526.32	---	PASS
11N40SISO	Ant1	5190	0.93	0.96	96.88	1075.27	---	PASS
		5230	0.93	0.96	96.88	1075.27	---	PASS
11AC20SISO	Ant1	5180	1.91	1.94	98.45	523.56	---	PASS
		5200	1.91	1.94	98.45	523.56	---	PASS
		5240	1.91	1.94	98.45	523.56	---	PASS
11AC40SISO	Ant1	5190	0.94	0.97	96.91	1063.83	---	PASS
		5230	0.94	0.97	96.91	1063.83	---	PASS
11AC80SISO	Ant1	5210	0.43	0.46	93.48	2325.58	---	PASS

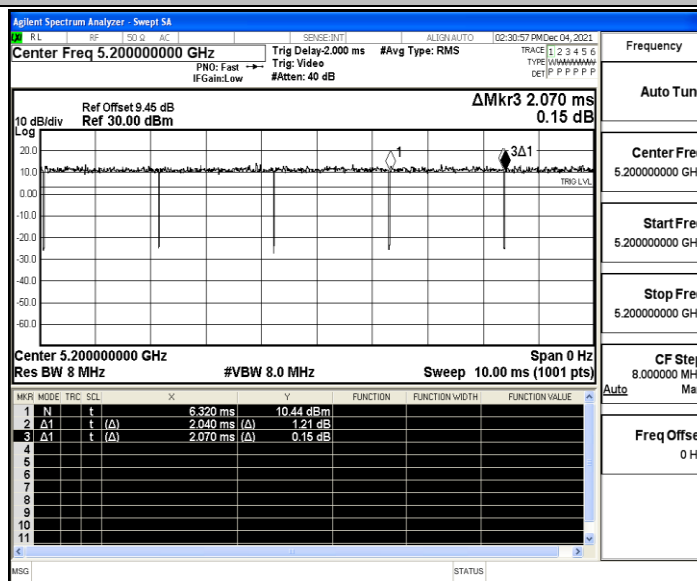


Test Graphs

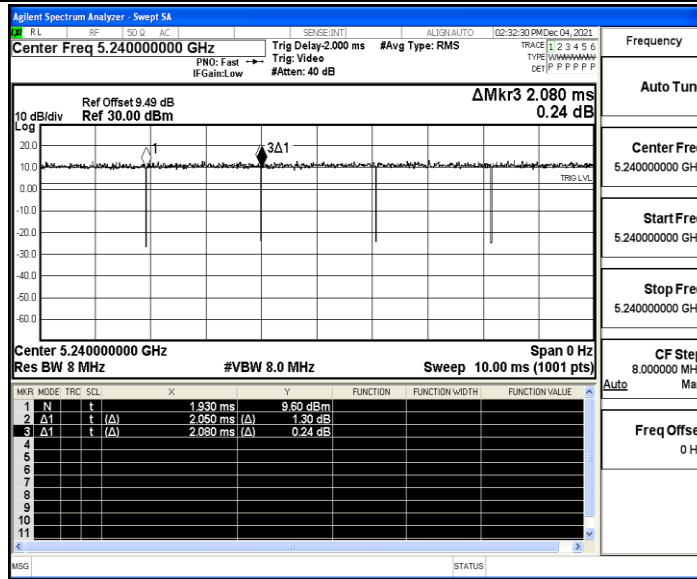
11A_Ant1_5180



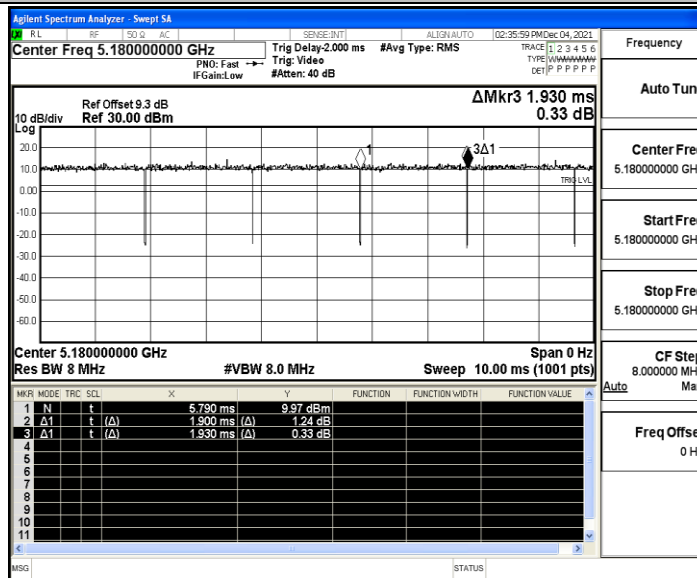
11A_Ant1_5200



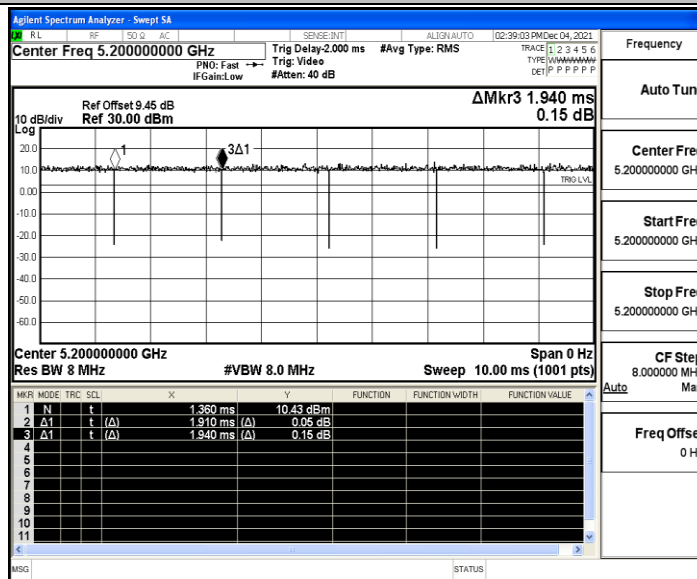
11A_Ant1_5240



11N20SISO_Ant1_5180

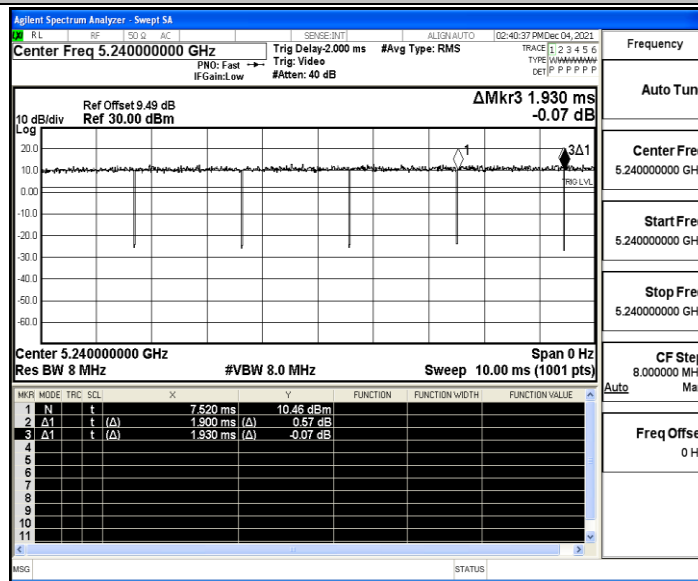


11N20SISO_Ant1_5200

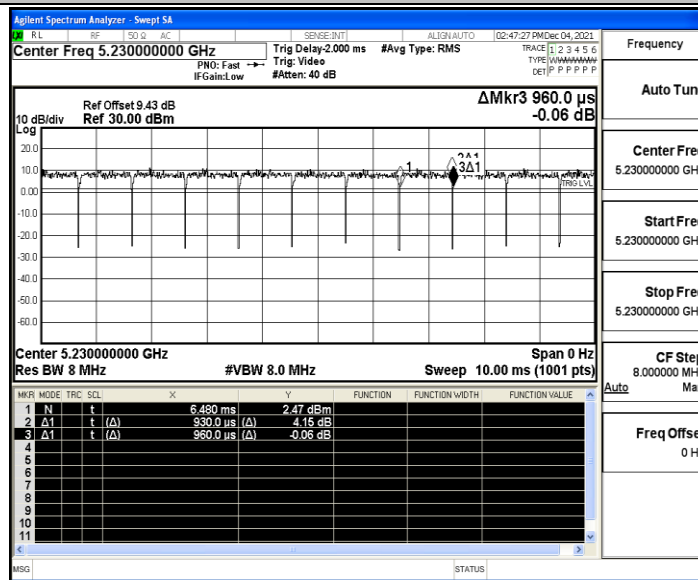




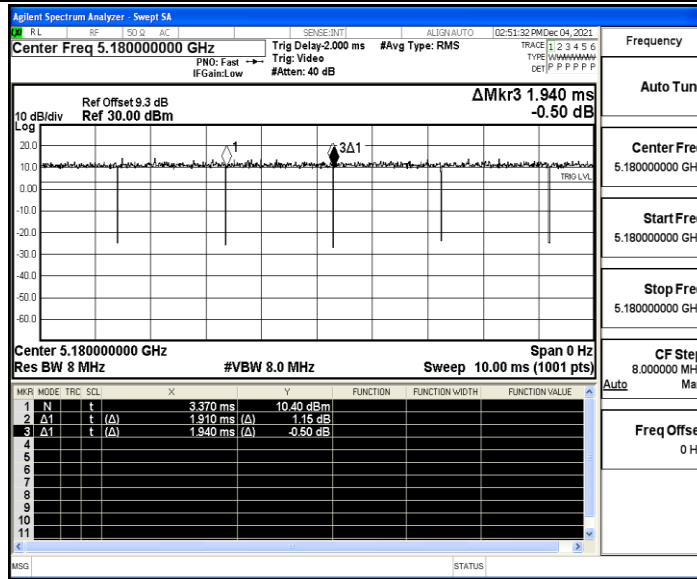
11N20SISO_Ant1_5240



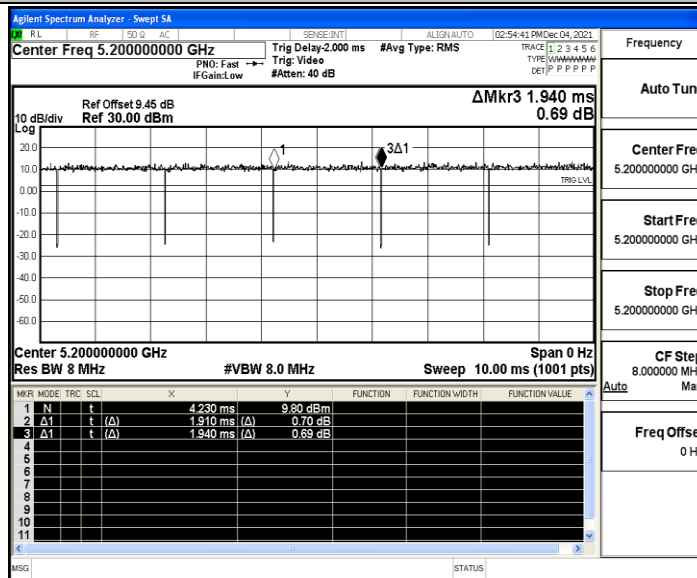
11N40SISO_Ant1_5230



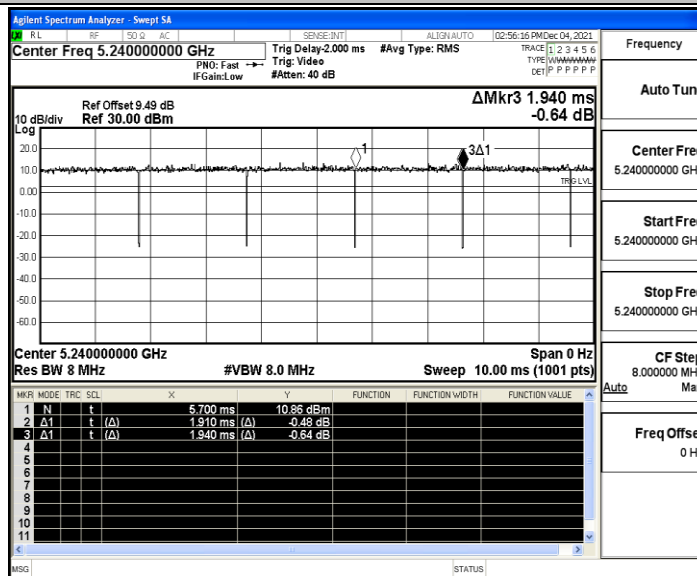
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

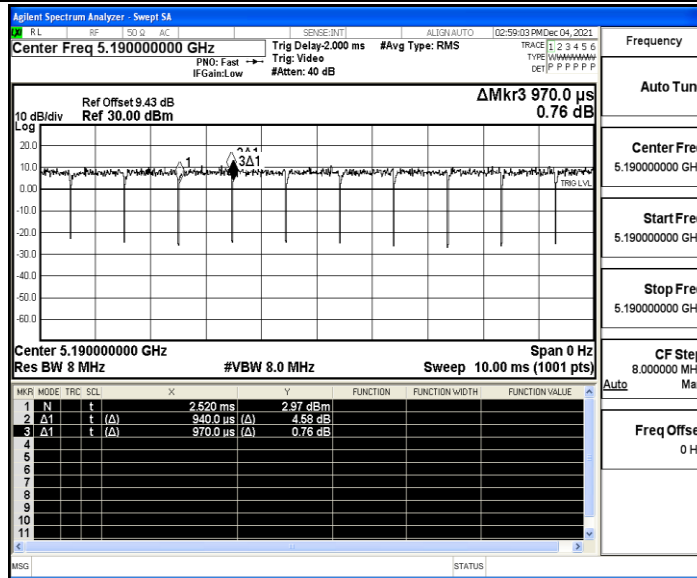


11AC20SISO_Ant1_5240

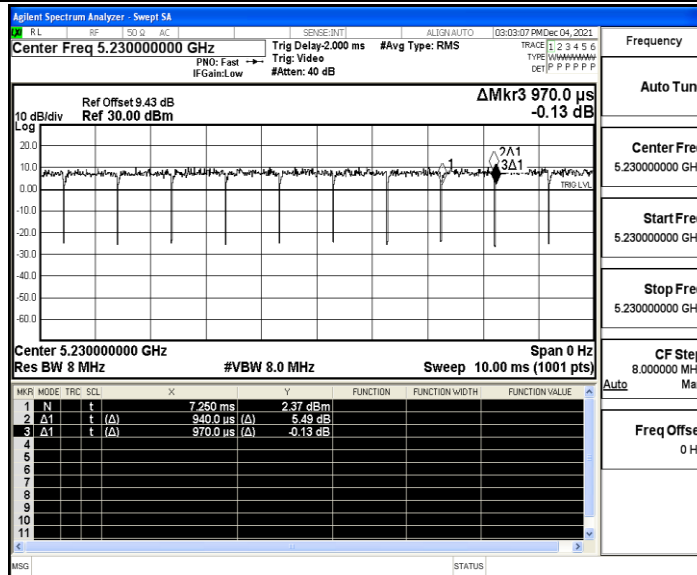




11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

