



Appendix C

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Mobile operating terminal

Test Model: H6

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan



C.1 Emission Bandwidth

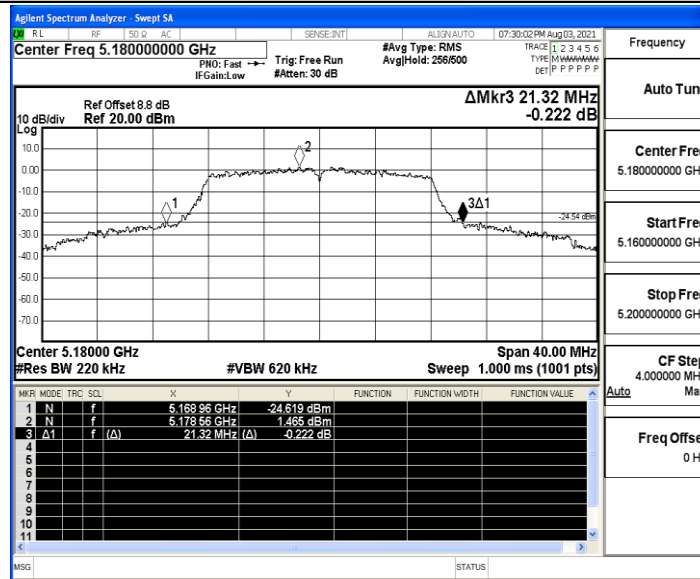
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.320	5168.960	5190.280	---	PASS
		5200	20.520	5189.600	5210.120	---	PASS
		5240	22.560	5229.320	5251.880	---	PASS
11N20SISO	Ant1	5180	20.280	5170.040	5190.320	---	PASS
		5200	20.120	5190.040	5210.160	---	PASS
		5240	20.280	5230.000	5250.280	---	PASS
11N40SISO	Ant1	5190	40.640	5169.600	5210.240	---	PASS
		5230	40.160	5210.000	5250.160	---	PASS

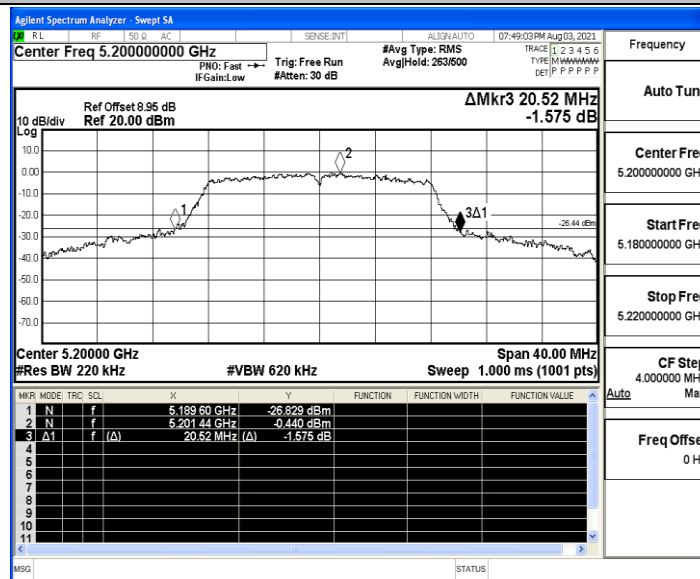


Test Graphs

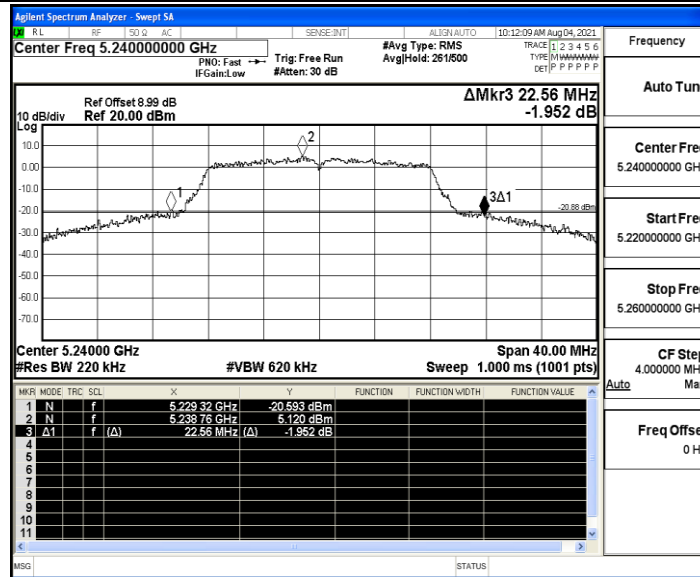
11A_Ant1_5180



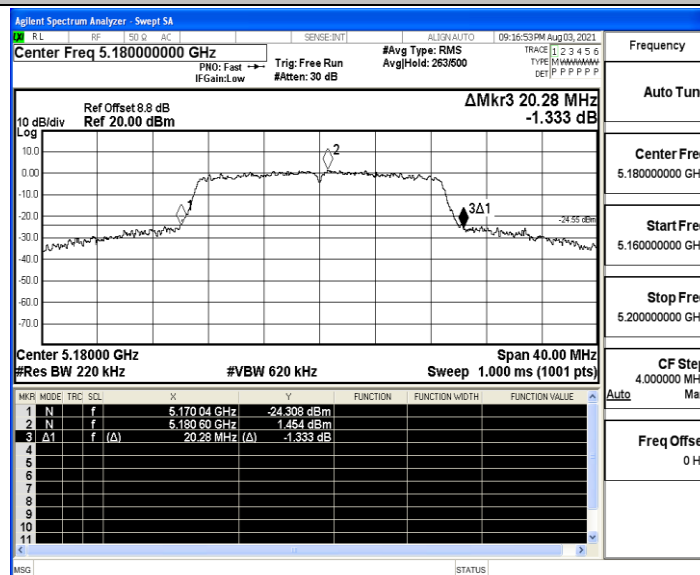
11A_Ant1_5200



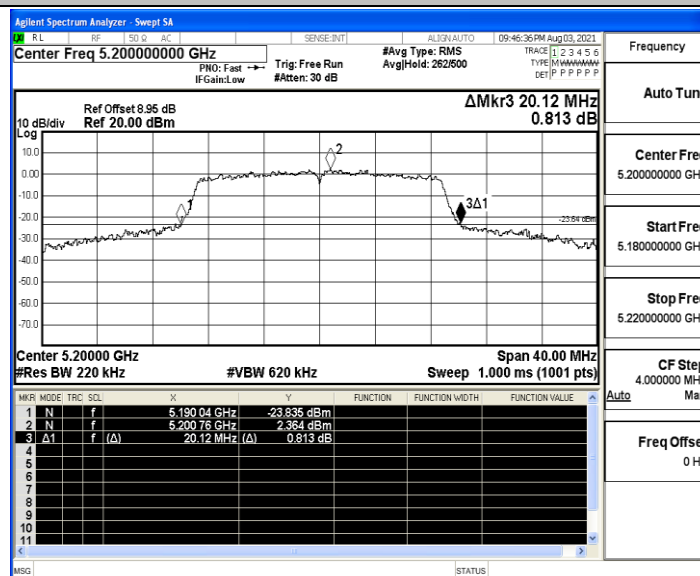
11A_Ant1_5240



11N20SISO_Ant1_5180

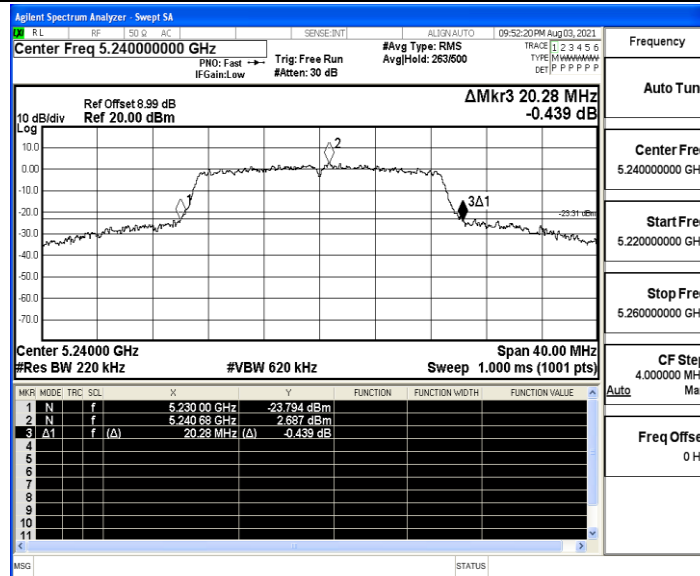


11N20SISO_Ant1_5200

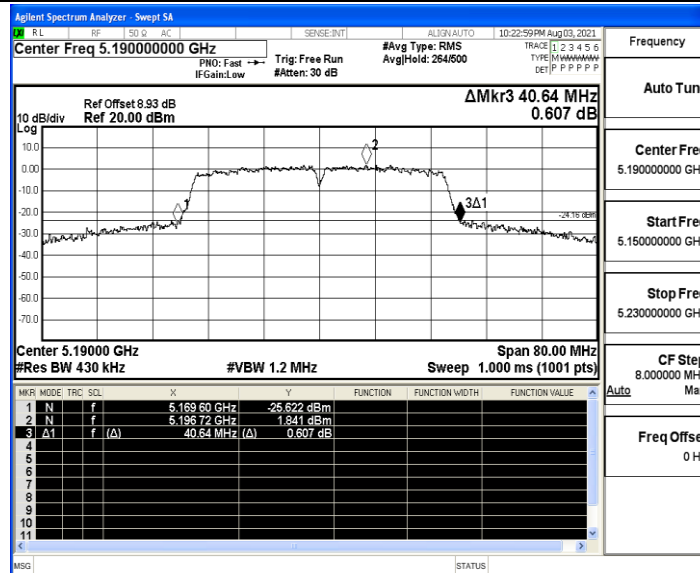




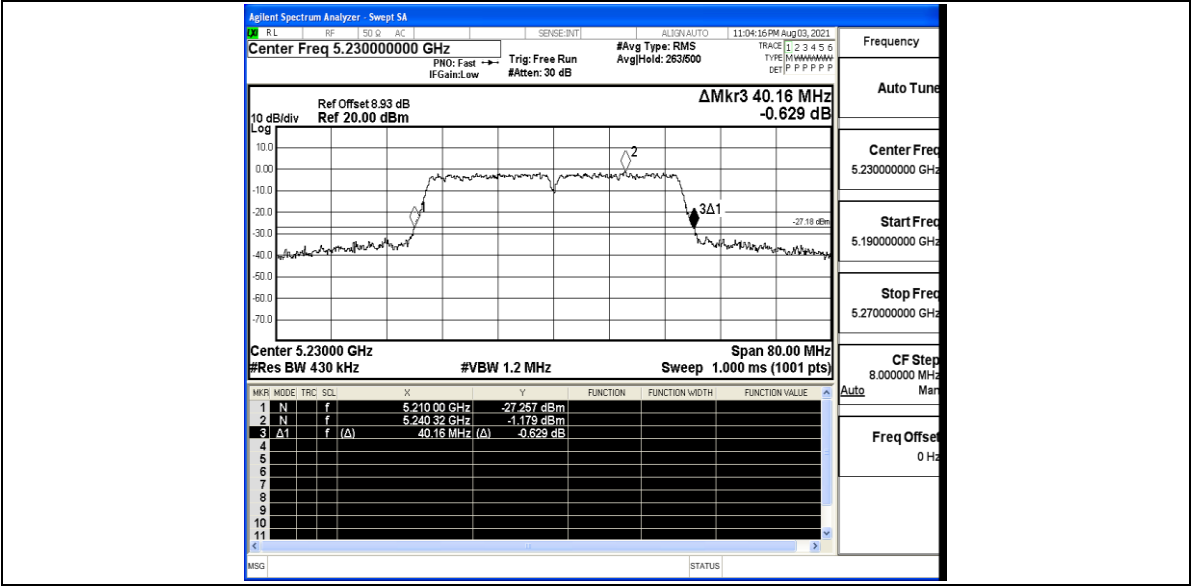
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230





C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	10.41	≤23.98	PASS
		5200	9.28	≤23.98	PASS
		5240	14.50	≤23.98	PASS
11N20SISO	Ant1	5180	11.44	≤23.98	PASS
		5200	11.97	≤23.98	PASS
		5240	12.26	≤23.98	PASS
11N40SISO	Ant1	5190	11.94	≤23.98	PASS
		5230	8.92	≤23.98	PASS

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



C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.05	≤11	PASS
		5200	-0.91	≤11	PASS
		5240	4.45	≤11	PASS
11N20SISO	Ant1	5180	1.27	≤11	PASS
		5200	1.67	≤11	PASS
		5240	2.01	≤11	PASS
11N40SISO	Ant1	5190	-2.21	≤11	PASS
		5230	-5.57	≤11	PASS

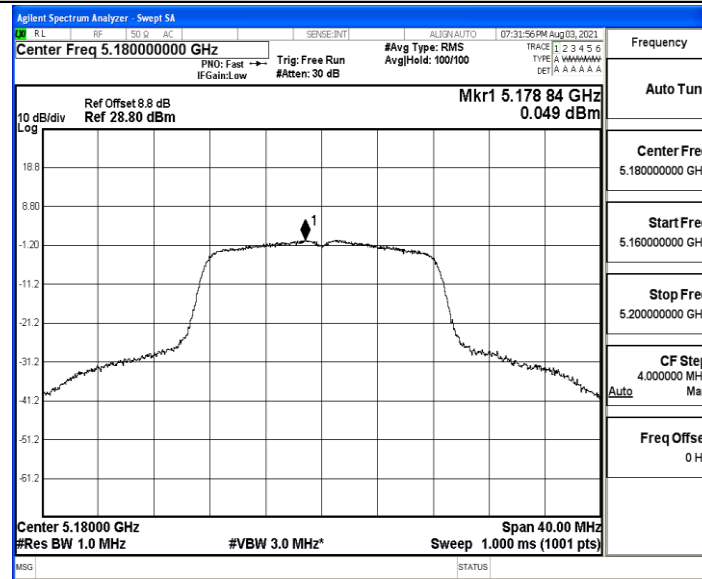
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

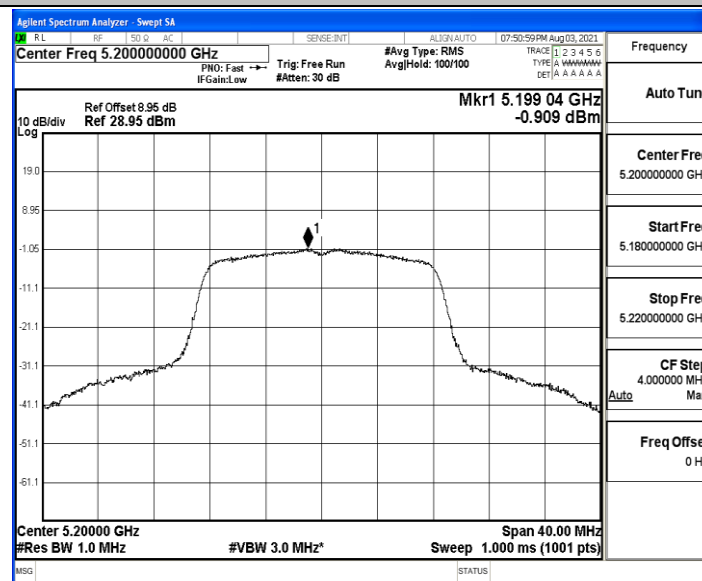


Test Graphs

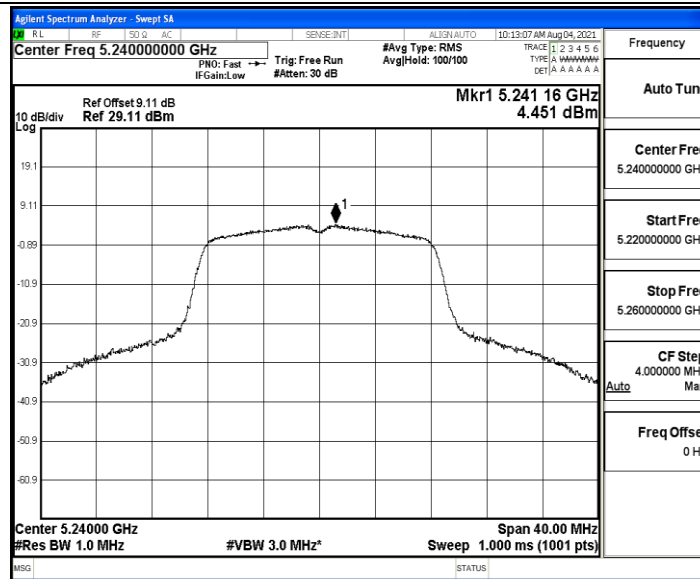
11A_Ant1_5180



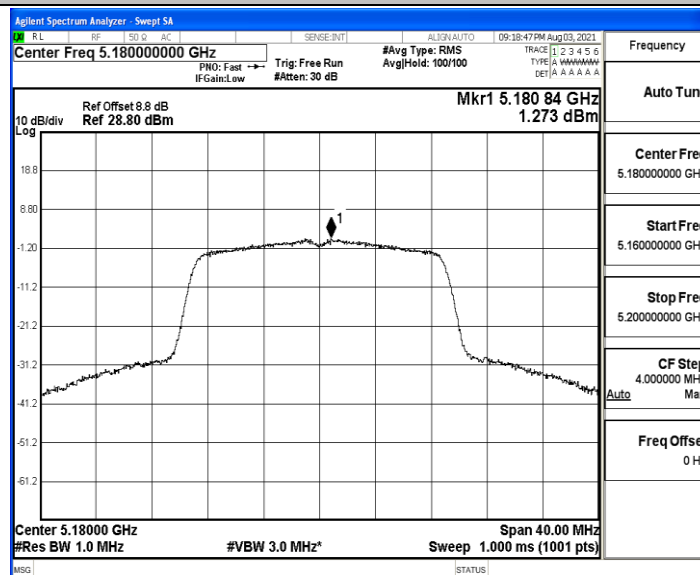
11A_Ant1_5200



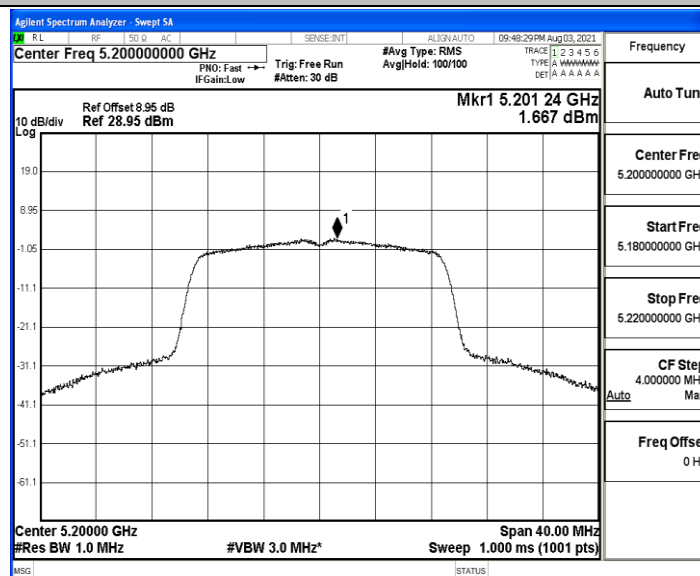
11A_Ant1_5240



11N20SISO_Ant1_5180

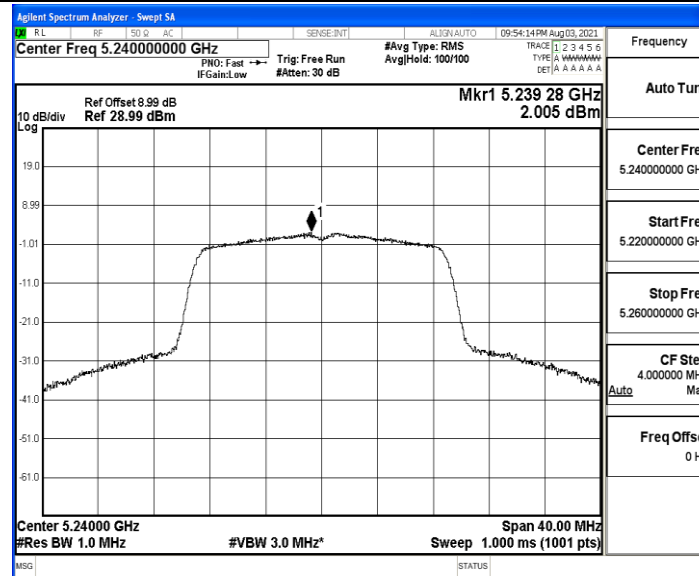


11N20SISO_Ant1_5200

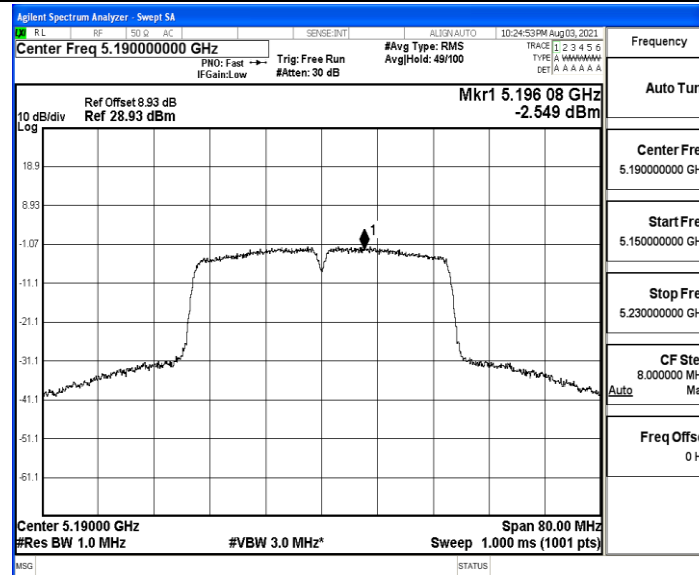




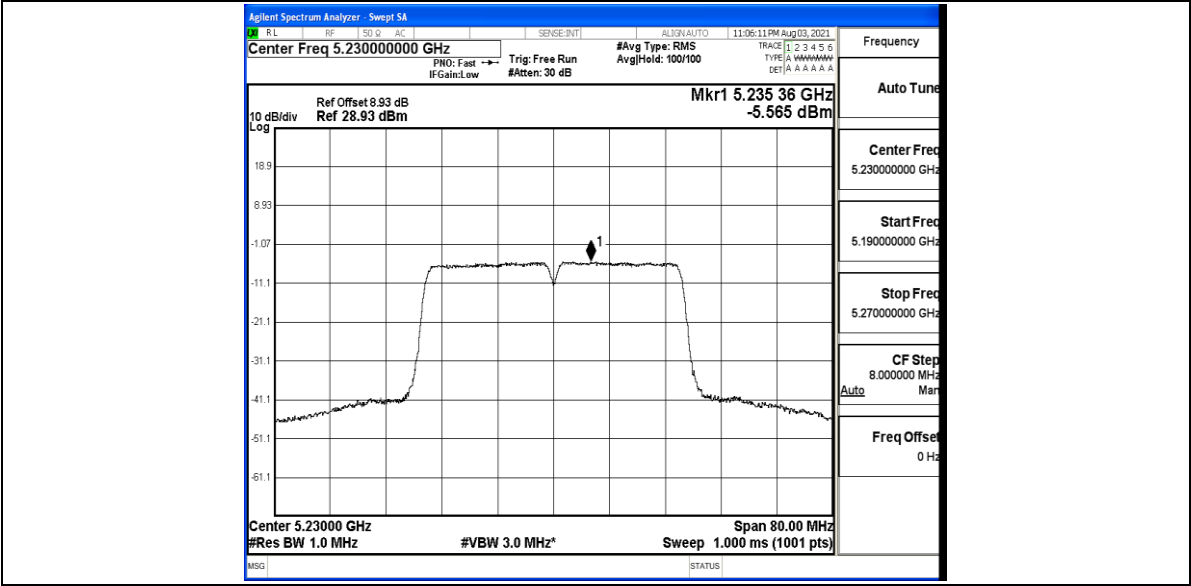
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230





C.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	-49.95	≤-41.20	45.25	≤54	PASS
				AV	5102.000	-45.62	≤-41.20	49.58	≤54	PASS
				AV	5150.000	-46.51	≤-41.20	48.69	≤54	PASS
				Peak	4500.000	-43.41	≤-27.00	51.79	≤68.2	PASS
				Peak	4784.200	-37.88	≤-27.00	57.32	≤68.2	PASS
				Peak	5150.000	-40.65	≤-27.00	54.55	≤68.2	PASS
		High	5240	AV	5350.000	-47.53	≤-41.20	47.67	≤54	PASS
				AV	5370.000	-46.66	≤-41.20	48.54	≤54	PASS
				AV	5460.000	-47.78	≤-41.20	47.42	≤54	PASS
				Peak	5350.000	-40.94	≤-27.00	54.26	≤68.2	PASS
				Peak	5352.720	-38.08	≤-27.00	57.12	≤68.2	PASS
				Peak	5460.000	-41.41	≤-27.00	53.79	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-50	≤-41.20	45.20	≤54	PASS
				AV	5102.000	-46.09	≤-41.20	49.11	≤54	PASS
				AV	5150.000	-46.62	≤-41.20	48.58	≤54	PASS
				Peak	4500.000	-45.79	≤-27.00	49.41	≤68.2	PASS
				Peak	4837.400	-37.34	≤-27.00	57.86	≤68.2	PASS
				Peak	5150.000	-41.2	≤-27.00	54.00	≤68.2	PASS
		High	5240	AV	5350.000	-48	≤-41.20	47.20	≤54	PASS
				AV	5370.000	-46.52	≤-41.20	48.68	≤54	PASS
				AV	5460.000	-48.52	≤-41.20	46.68	≤54	PASS
				Peak	5350.000	-43.52	≤-27.00	51.68	≤68.2	PASS
				Peak	5367.360	-38.54	≤-27.00	56.66	≤68.2	PASS
				Peak	5460.000	-42.56	≤-27.00	52.64	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-49.9	≤-41.20	45.30	≤54	PASS
				AV	5149.600	-44.94	≤-41.20	50.26	≤54	PASS
				AV	5150.000	-44.62	≤-41.20	50.58	≤54	PASS
				Peak	4500.000	-43.89	≤-27.00	51.31	≤68.2	PASS
				Peak	5148.200	-37.45	≤-27.00	57.75	≤68.2	PASS
				Peak	5150.000	-41.35	≤-27.00	53.85	≤68.2	PASS
		High	5230	AV	5350.000	-48	≤-41.20	47.20	≤54	PASS
				AV	5360.160	-46.92	≤-41.20	48.28	≤54	PASS
				AV	5460.000	-48.23	≤-41.20	46.97	≤54	PASS
				Peak	5350.000	-41.94	≤-27.00	53.26	≤68.2	PASS
				Peak	5377.840	-39.05	≤-27.00	56.15	≤68.2	PASS
				Peak	5460.000	-42.56	≤-27.00	52.64	≤68.2	PASS



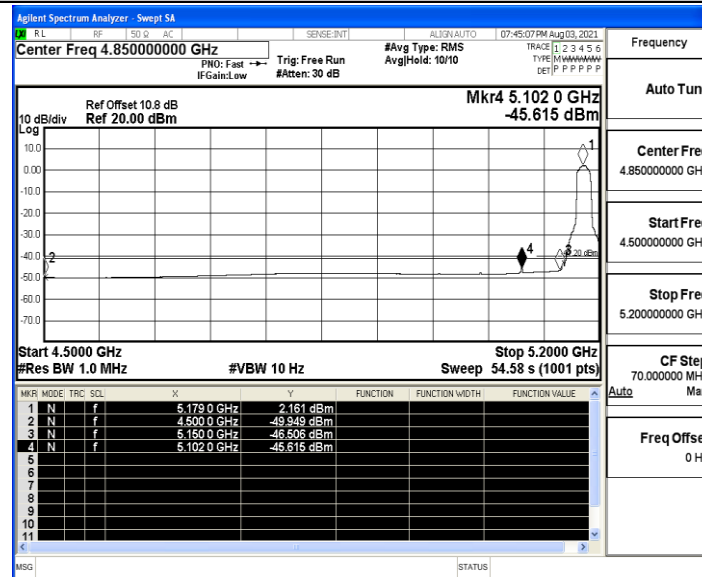
Note:

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.

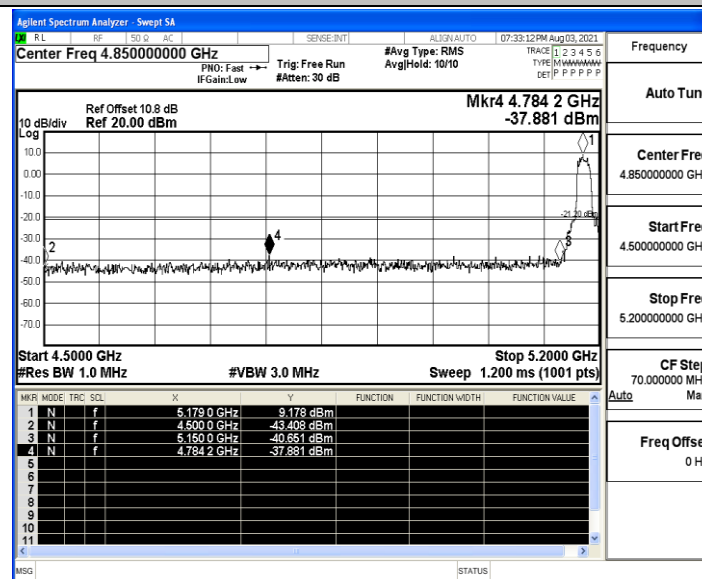


Test Graphs

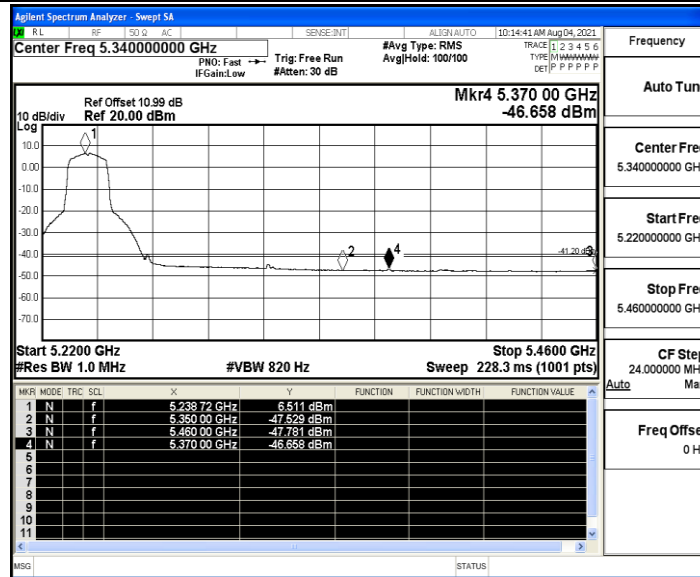
11A_Ant1_Low_5180_AV



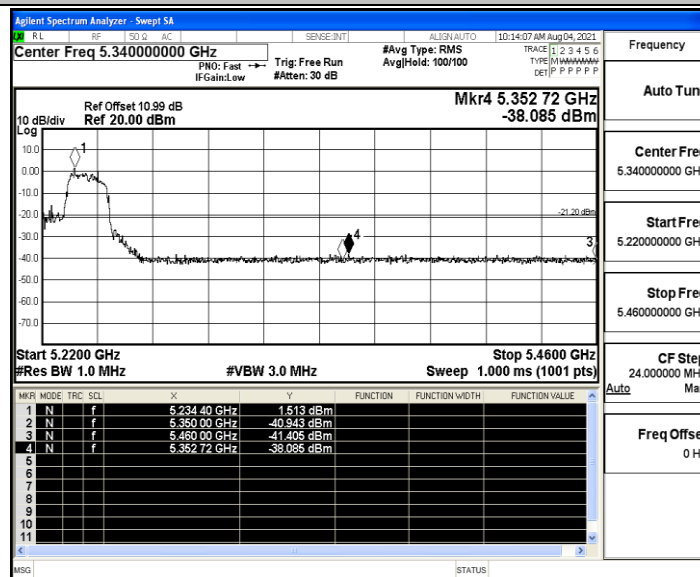
11A_Ant1_Low_5180_Peak



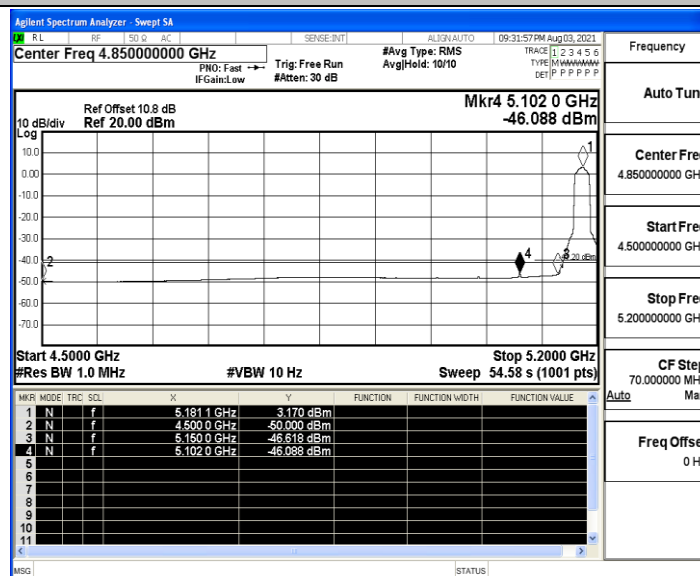
11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak

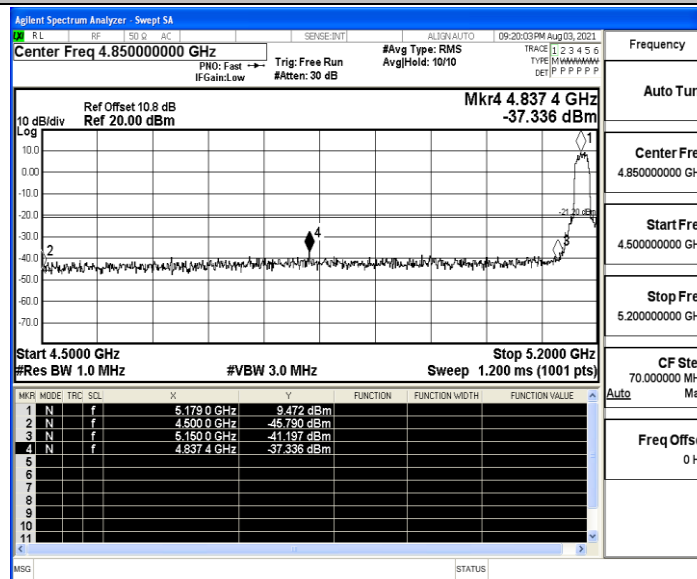


11N20SISO_Ant1_Low_5180_AV

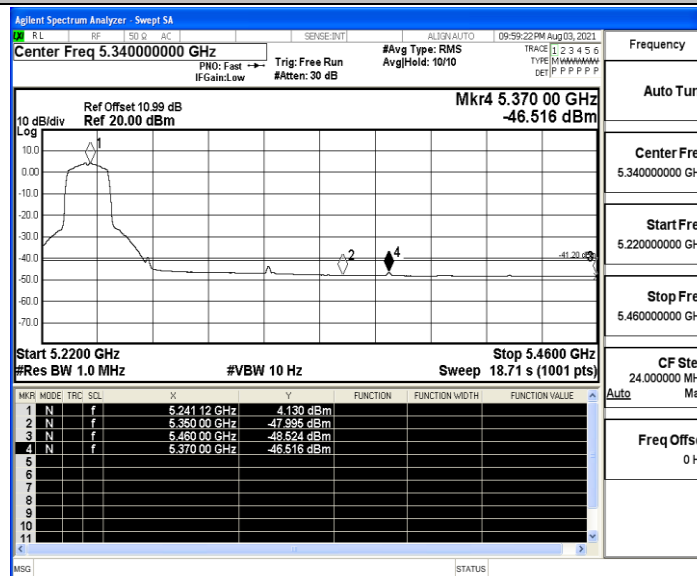




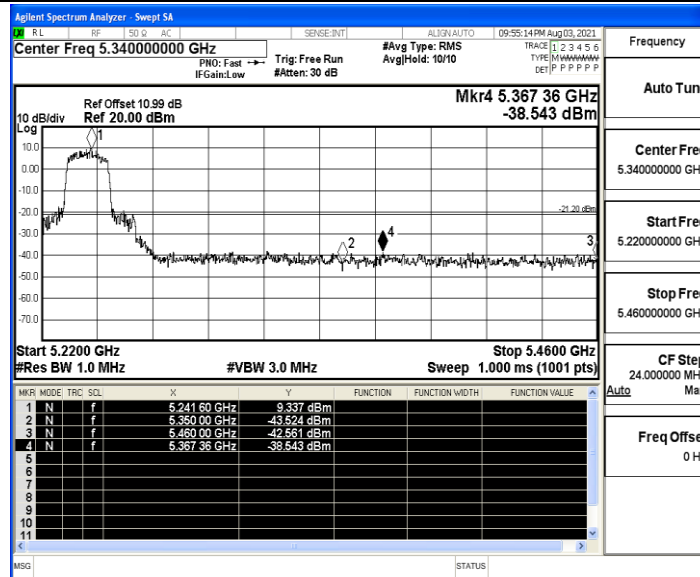
11N20SISO_Ant1_Low_5180_Peak



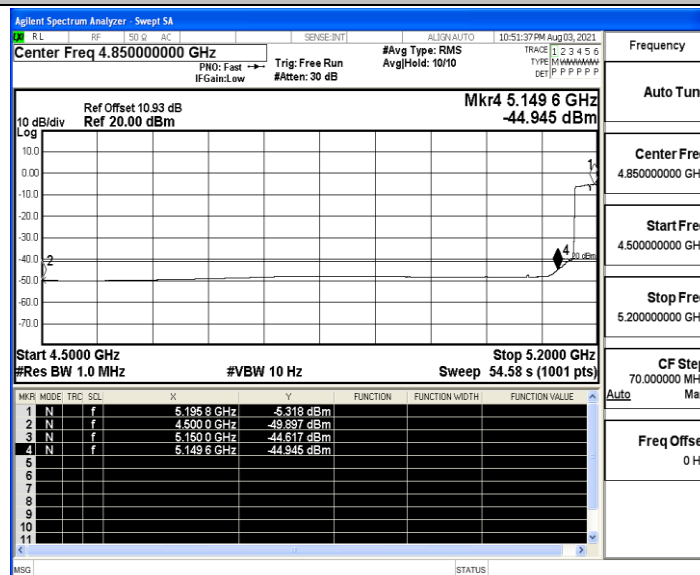
11N20SISO_Ant1_High_5240_AV



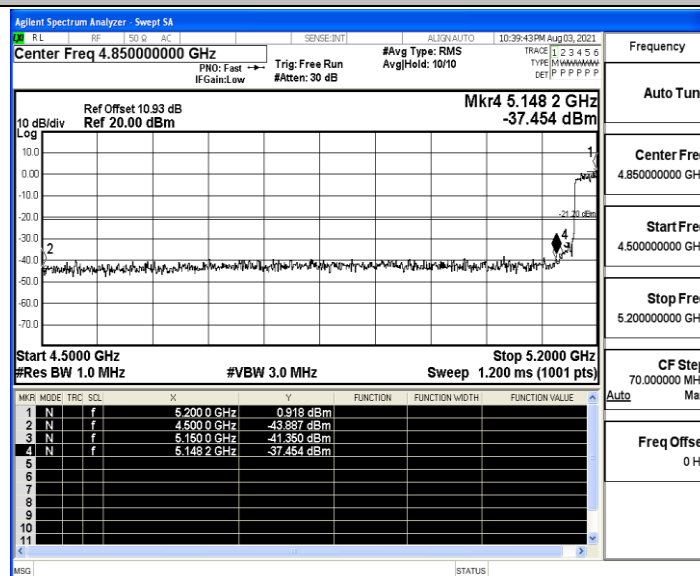
11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

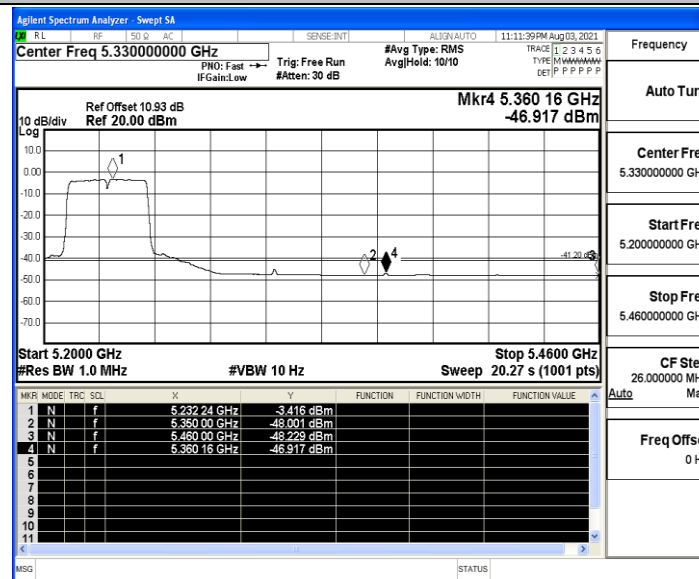


11N40SISO_Ant1_Low_5190_Peak

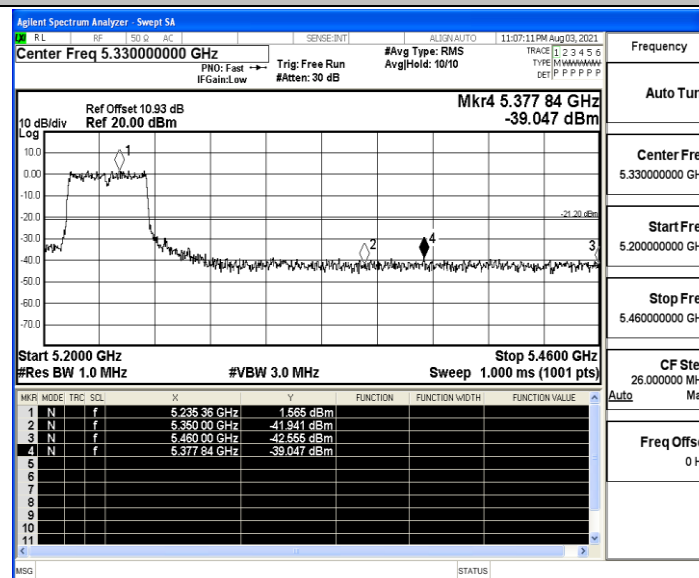




11N40SISO_Ant1_High_5230_AV



11N40SISO_Ant1_High_5230_Peak





C.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-7000	-1.351351	20	PASS
			LV	NT	-7000	-1.351351	20	PASS
			HV	NT	-7000	-1.351351	20	PASS
		5200	NV	NT	-8000	-1.538462	20	PASS
			LV	NT	-8000	-1.538462	20	PASS
			HV	NT	-7000	-1.346154	20	PASS
		5240	NV	NT	3000	0.572519	20	PASS
			LV	NT	2000	0.381679	20	PASS
			HV	NT	1000	0.19084	20	PASS
11N20SIS O	Ant1	5180	NV	NT	-8000	-1.544402	20	PASS
			LV	NT	-8000	-1.544402	20	PASS
			HV	NT	-8000	-1.544402	20	PASS
		5200	NV	NT	-11000	-2.115385	20	PASS
			LV	NT	-10000	-1.923077	20	PASS
			HV	NT	-11000	-2.115385	20	PASS
		5240	NV	NT	-12000	-2.290076	20	PASS
			LV	NT	-11000	-2.099237	20	PASS
			HV	NT	-11000	-2.099237	20	PASS
11N40SIS O	Ant1	5190	NV	NT	-1000	-0.192678	20	PASS
			LV	NT	-1000	-0.192678	20	PASS
			HV	NT	-2000	-0.385356	20	PASS
		5230	NV	NT	-8000	-1.529637	20	PASS
			LV	NT	-8000	-1.529637	20	PASS
			HV	NT	-8000	-1.529637	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-7000	-1.351351	20	PASS
			NV	-20	-7000	-1.351351	20	PASS
			NV	-10	-7000	-1.351351	20	PASS
			NV	0	-7000	-1.351351	20	PASS
			NV	10	-7000	-1.351351	20	PASS
			NV	20	-7000	-1.351351	20	PASS
			NV	30	-7000	-1.351351	20	PASS
			NV	40	-7000	-1.351351	20	PASS



			NV	50	-7000	-1.351351	20	PASS
		5200	NV	-30	-7000	-1.346154	20	PASS
			NV	-20	-7000	-1.346154	20	PASS
			NV	-10	-8000	-1.538462	20	PASS
			NV	0	-8000	-1.538462	20	PASS
			NV	10	-7000	-1.346154	20	PASS
			NV	20	-8000	-1.538462	20	PASS
			NV	30	-7000	-1.346154	20	PASS
			NV	40	-7000	-1.346154	20	PASS
			NV	50	-8000	-1.538462	20	PASS
		5240	NV	-30	1000	0.19084	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	-1000	-0.19084	20	PASS
			NV	20	-1000	-0.19084	20	PASS
			NV	30	-1000	-0.19084	20	PASS
			NV	40	-2000	-0.381679	20	PASS
			NV	50	-2000	-0.381679	20	PASS
11N20SIS O	Ant1	5180	NV	-30	-8000	-1.544402	20	PASS
			NV	-20	-8000	-1.544402	20	PASS
			NV	-10	-9000	-1.737452	20	PASS
			NV	0	-9000	-1.737452	20	PASS
			NV	10	-9000	-1.737452	20	PASS
			NV	20	-9000	-1.737452	20	PASS
			NV	30	-9000	-1.737452	20	PASS
			NV	40	-9000	-1.737452	20	PASS
			NV	50	-9000	-1.737452	20	PASS
		5200	NV	-30	-10000	-1.923077	20	PASS
			NV	-20	-10000	-1.923077	20	PASS
			NV	-10	-10000	-1.923077	20	PASS
			NV	0	-10000	-1.923077	20	PASS
			NV	10	-10000	-1.923077	20	PASS
			NV	20	-10000	-1.923077	20	PASS
			NV	30	-10000	-1.923077	20	PASS
			NV	40	-10000	-1.923077	20	PASS
			NV	50	-10000	-1.923077	20	PASS
		5240	NV	-30	-11000	-2.099237	20	PASS
			NV	-20	-11000	-2.099237	20	PASS
			NV	-10	-11000	-2.099237	20	PASS
			NV	0	-11000	-2.099237	20	PASS
			NV	10	-11000	-2.099237	20	PASS
			NV	20	-11000	-2.099237	20	PASS



11N40SIS O	Ant1		NV	30	-11000	-2.099237	20	PASS
			NV	40	-11000	-2.099237	20	PASS
			NV	50	-11000	-2.099237	20	PASS
		5190	NV	-30	-2000	-0.385356	20	PASS
			NV	-20	-2000	-0.385356	20	PASS
			NV	-10	-2000	-0.385356	20	PASS
			NV	0	-2000	-0.385356	20	PASS
			NV	10	-2000	-0.385356	20	PASS
			NV	20	-3000	-0.578035	20	PASS
			NV	30	-3000	-0.578035	20	PASS
			NV	40	-3000	-0.578035	20	PASS
			NV	50	-3000	-0.578035	20	PASS
		5230	NV	-30	-8000	-1.529637	20	PASS
			NV	-20	-8000	-1.529637	20	PASS
			NV	-10	-8000	-1.529637	20	PASS
			NV	0	-8000	-1.529637	20	PASS
			NV	10	-8000	-1.529637	20	PASS
			NV	20	-8000	-1.529637	20	PASS
			NV	30	-7000	-1.338432	20	PASS
			NV	40	-7000	-1.338432	20	PASS
			NV	50	-7000	-1.338432	20	PASS



C.6 Duty Cycle

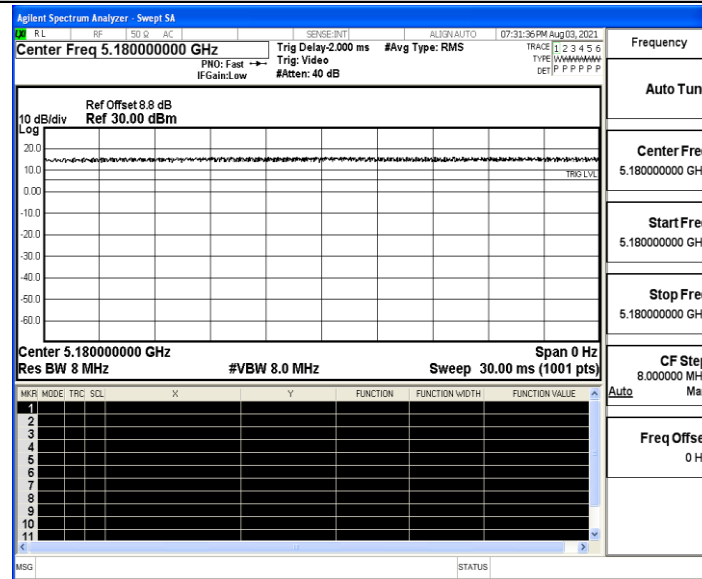
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	30.00	30.00	100.00	---	PASS
		5200	30.00	30.00	100.00	---	PASS
		5240	30.00	30.00	100.00	---	PASS
11N20SISO	Ant1	5180	30.00	30.00	100.00	---	PASS
		5200	30.00	30.00	100.00	---	PASS
		5240	30.00	30.00	100.00	---	PASS
11N40SISO	Ant1	5190	30.00	30.00	100.00	---	PASS
		5230	30.00	30.00	100.00	---	PASS

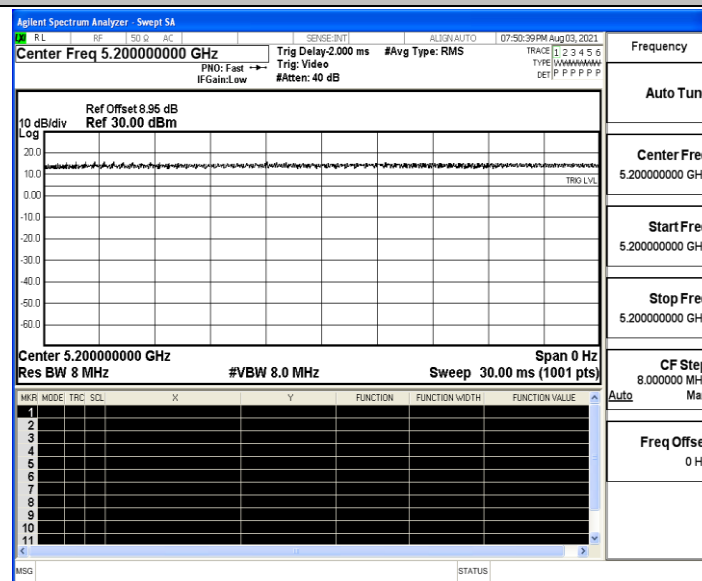


Test Graphs

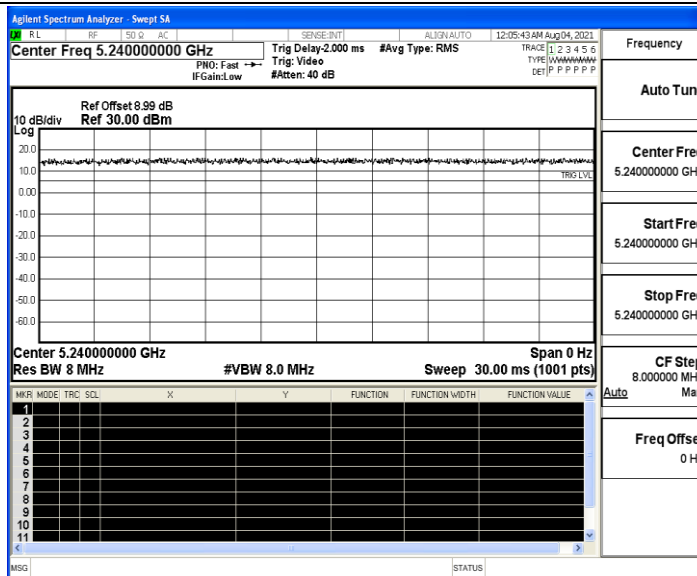
11A_Ant1_5180



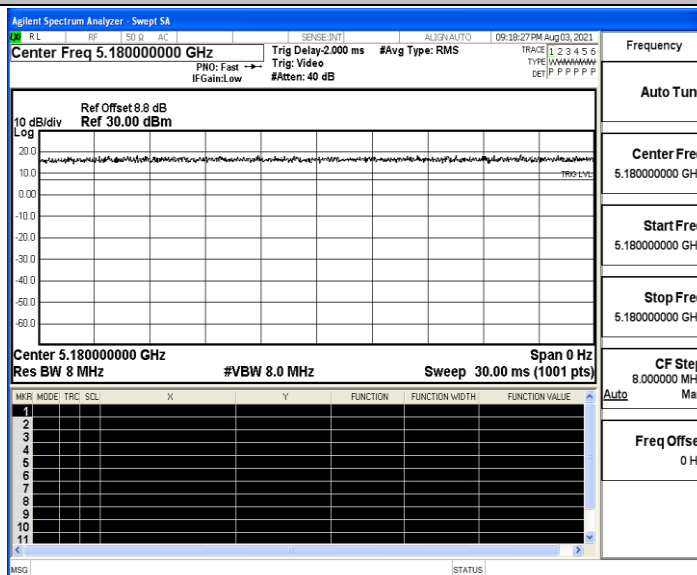
11A_Ant1_5200



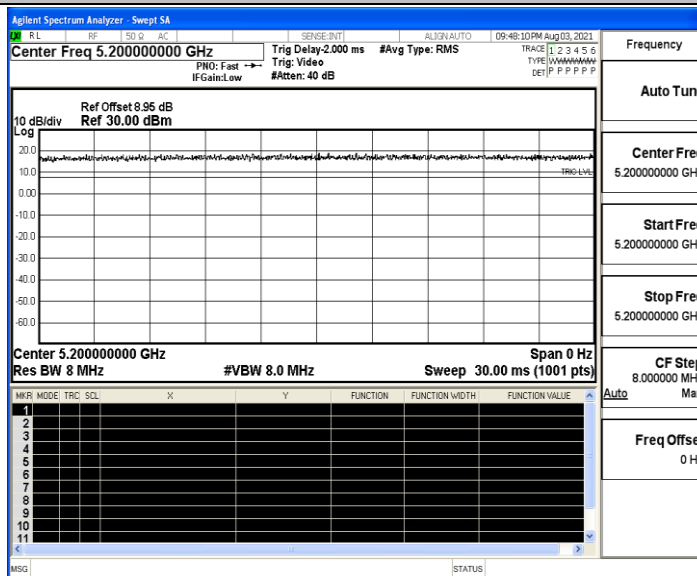
11A_Ant1_5240



11N20SISO_Ant1_5180

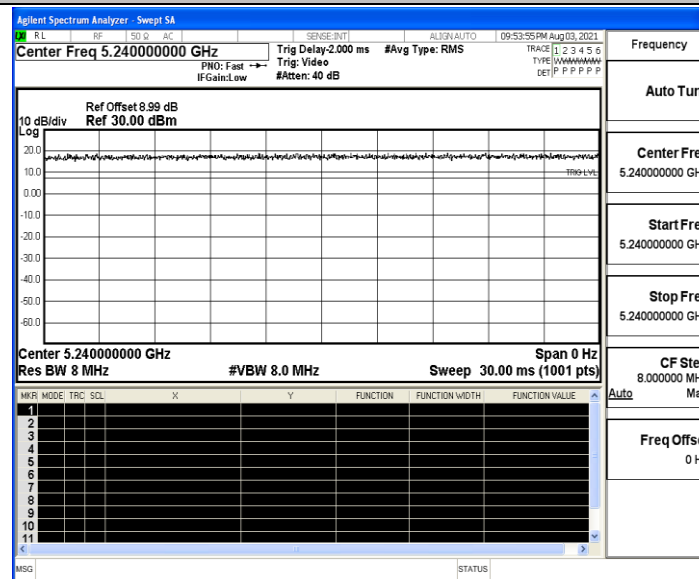


11N20SISO_Ant1_5200

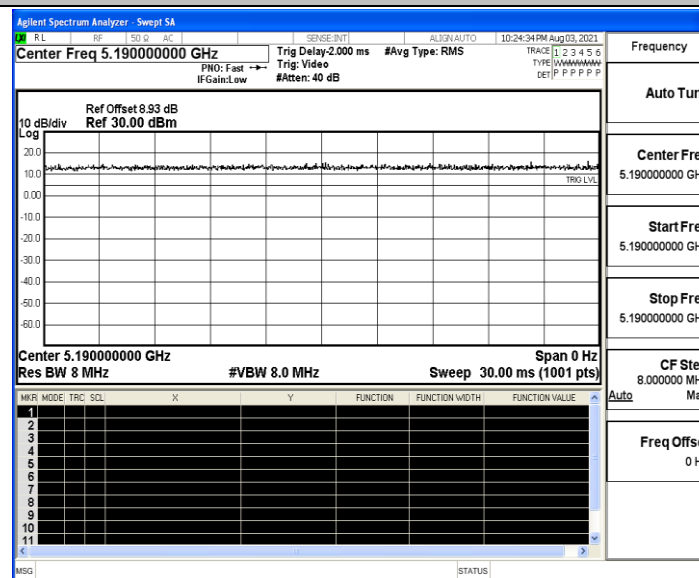




11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

