



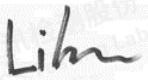
Appendix C

RF Test Data for 5.3G WIFI (Conducted Measurement)

Product Name: AOSU IndoorCam P1

Test Model: C2E2BH11

Environmental Conditions

Temperature:	24.1℃
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan





C.1 Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5260	19.920	5250.000	5269.920	---	---
		5300	20.240	5289.840	5310.080	---	---
		5320	20.120	5309.840	5329.960	---	---
11N20SISO	Ant	5260	20.360	5249.800	5270.160	---	---
		5300	20.320	5289.800	5310.120	---	---
		5320	20.320	5309.760	5330.080	---	---
11N40SISO	Ant	5270	40.480	5249.680	5290.160	---	---
		5310	40.560	5289.760	5330.320	---	---
11AC20SISO	Ant	5260	20.360	5249.800	5270.160	---	---
		5300	20.240	5289.840	5310.080	---	---
		5320	20.440	5309.800	5330.240	---	---
11AC40SISO	Ant	5270	40.960	5249.600	5290.560	---	---
		5310	40.560	5289.680	5330.240	---	---
11AC80SISO	Ant	5290	80.960	5249.520	5330.480	---	---

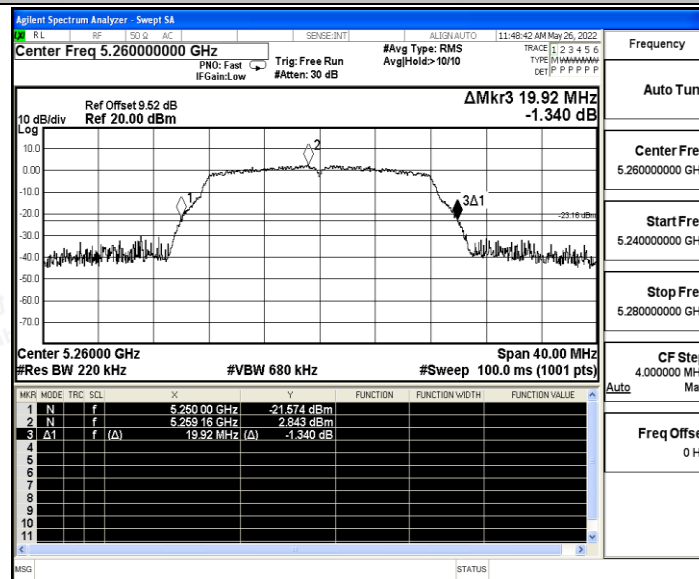


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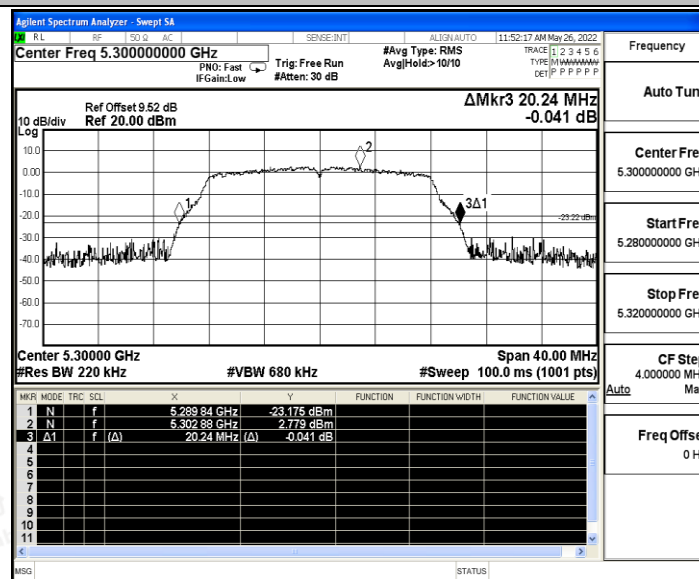


Test Graphs

11A_Ant_5260

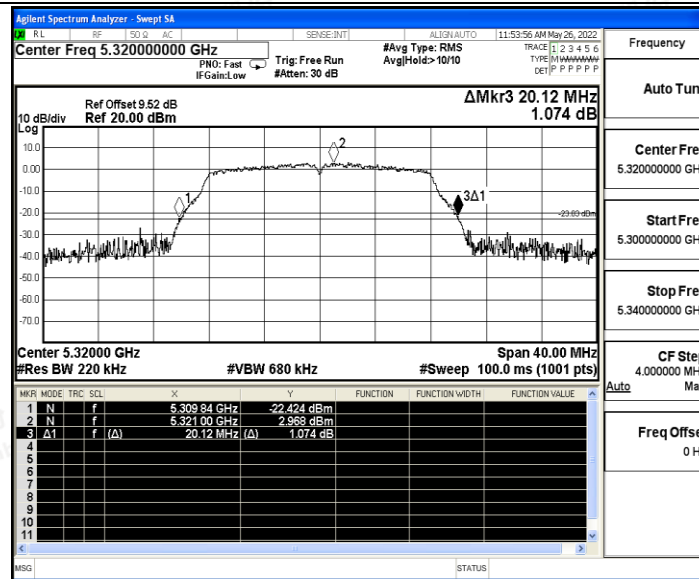


11A_Ant_5300

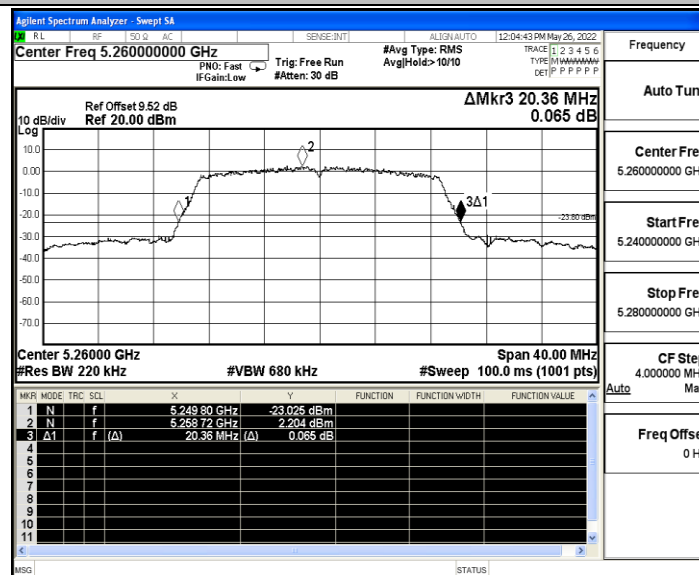


11A_Ant_5320



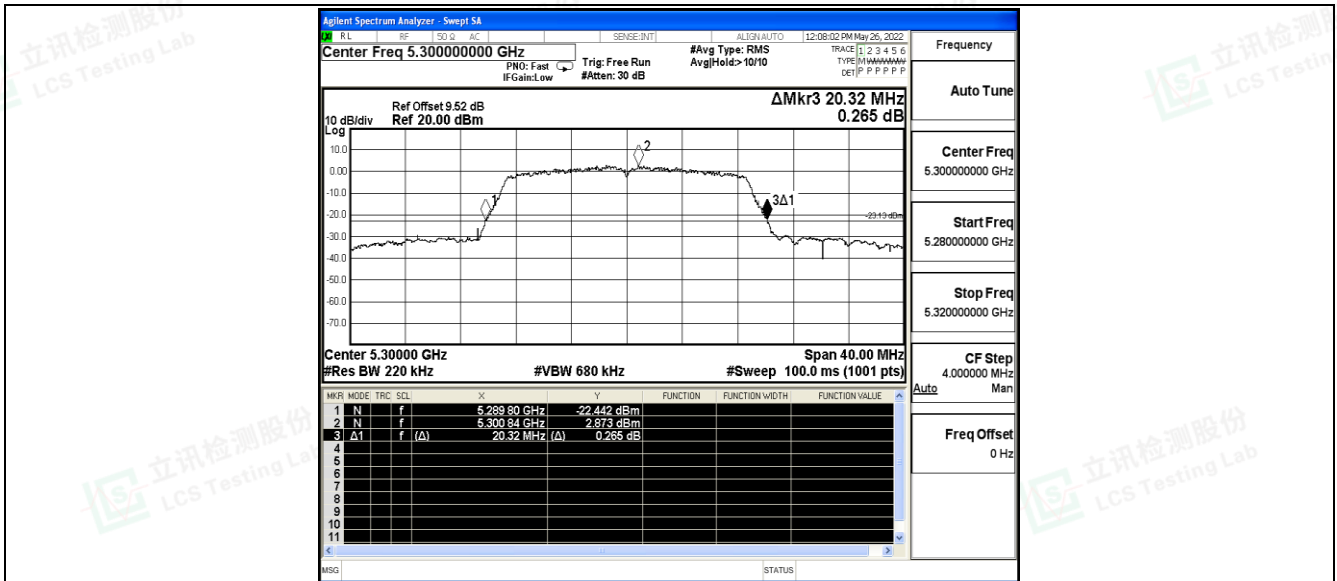


11N20SISO_Ant_5260

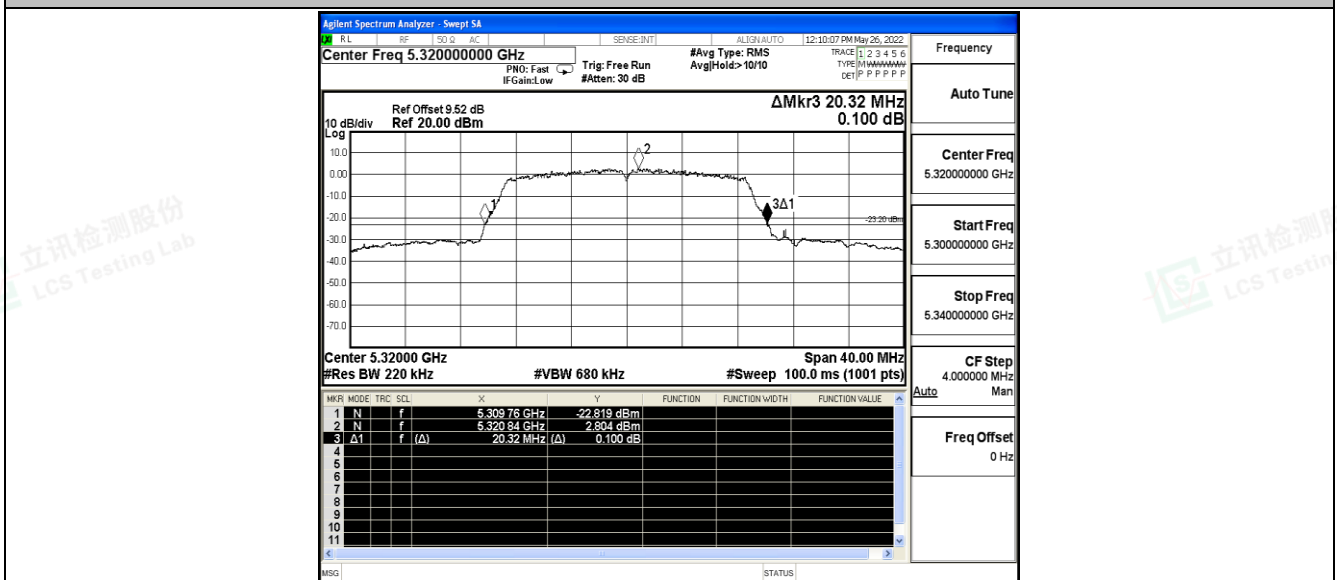


11N20SISO_Ant_5300



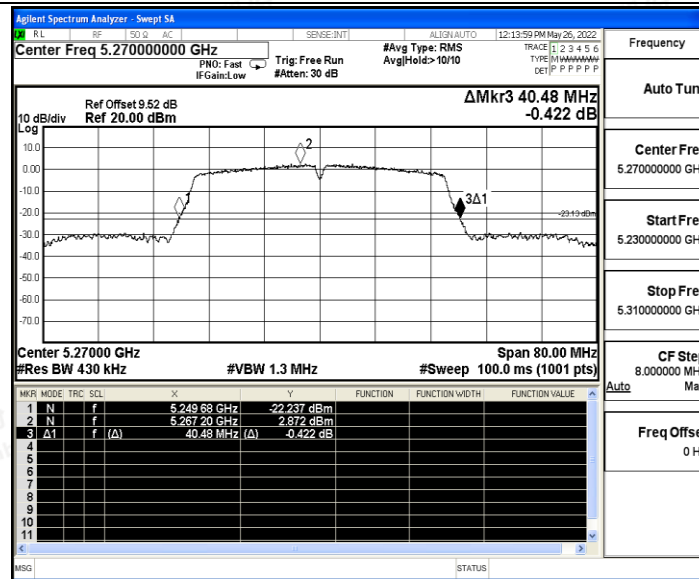


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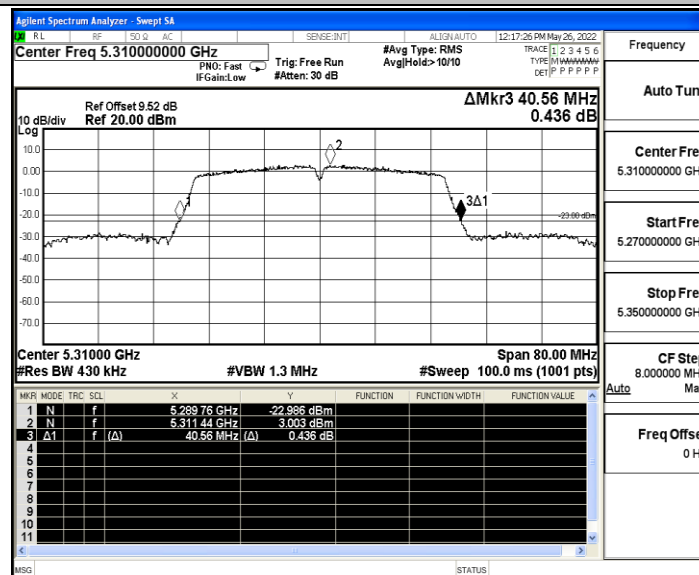


11N40SISO_Ant_5270



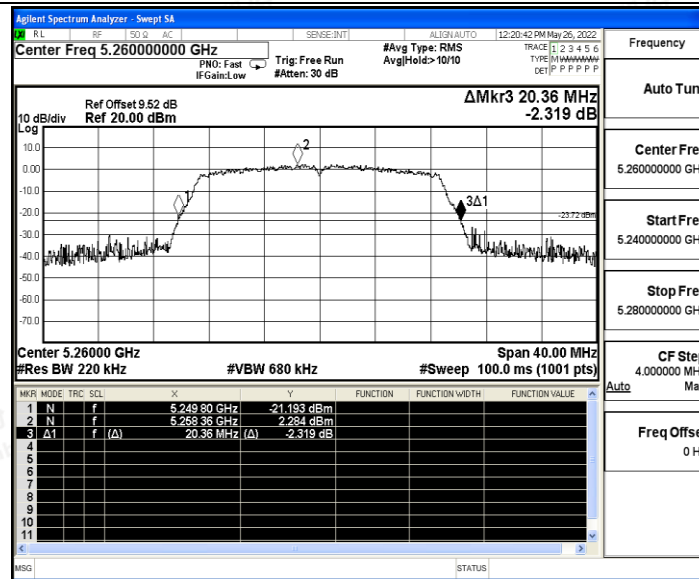


11N40SISO_Ant_5310

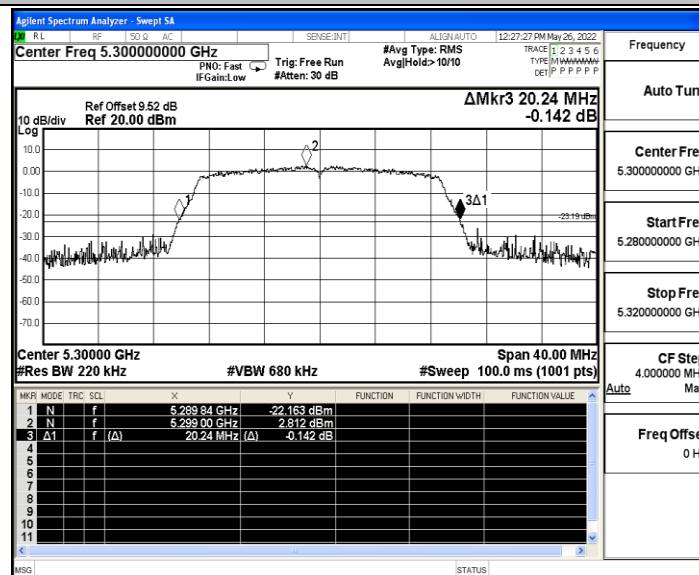


11AC20SISO_Ant_5260



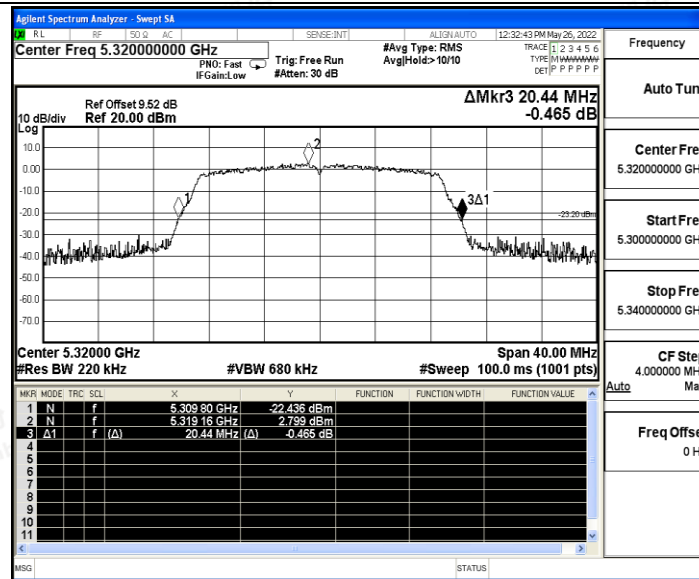


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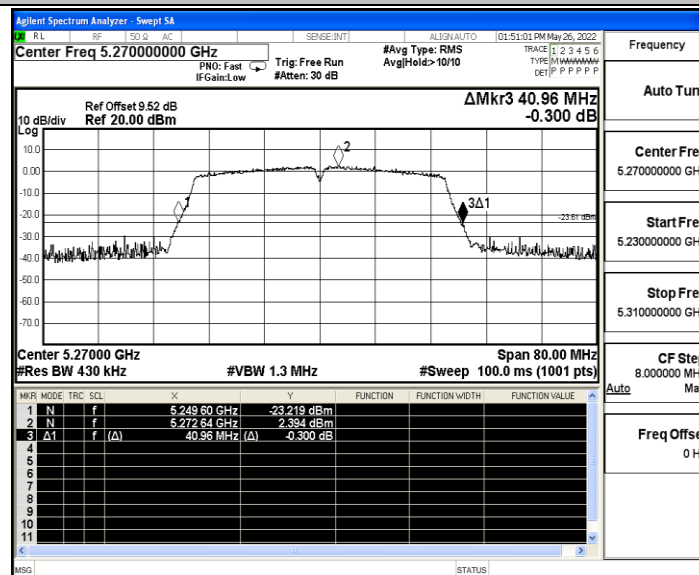


11AC20SISO_Ant_5320



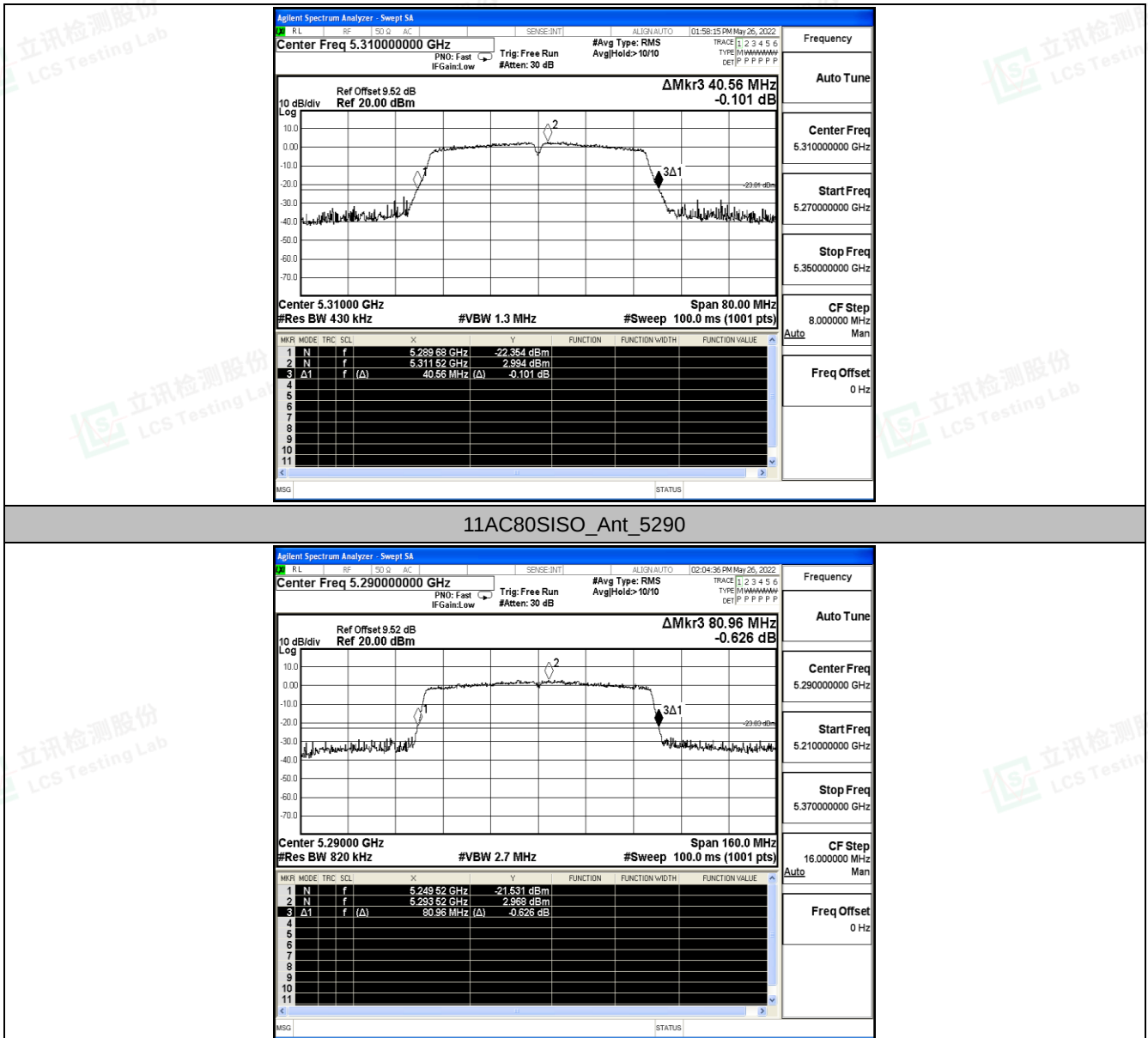


11AC40SISO_Ant_5270



11AC40SISO_Ant_5310







C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5260	11.50	≤23.98	PASS
		5300	11.78	≤23.98	PASS
		5320	12.01	≤23.98	PASS
11N20SISO	Ant	5260	11.38	≤23.98	PASS
		5300	11.59	≤23.98	PASS
		5320	11.85	≤23.98	PASS
11N40SISO	Ant	5270	11.43	≤23.98	PASS
		5310	11.75	≤23.98	PASS
11AC20SISO	Ant	5260	11.38	≤23.98	PASS
		5300	11.60	≤23.98	PASS
		5320	11.89	≤23.98	PASS
11AC40SISO	Ant	5270	11.53	≤23.98	PASS
		5310	11.78	≤23.98	PASS
11AC80SISO	Ant	5290	11.59	≤23.98	PASS

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



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant	5260	1.08	≤11.00	PASS
		5300	1.36	≤11.00	PASS
		5320	1.54	≤11.00	PASS
11N20SISO	Ant	5260	0.72	≤11.00	PASS
		5300	0.96	≤11.00	PASS
		5320	1.25	≤11.00	PASS
11N40SISO	Ant	5270	-2.14	≤11.00	PASS
		5310	-1.88	≤11.00	PASS
11AC20SISO	Ant	5260	0.85	≤11.00	PASS
		5300	1.02	≤11.00	PASS
		5320	1.26	≤11.00	PASS
11AC40SISO	Ant	5270	-2.06	≤11.00	PASS
		5310	-1.79	≤11.00	PASS
11AC80SISO	Ant	5290	-5.07	≤11.00	PASS

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

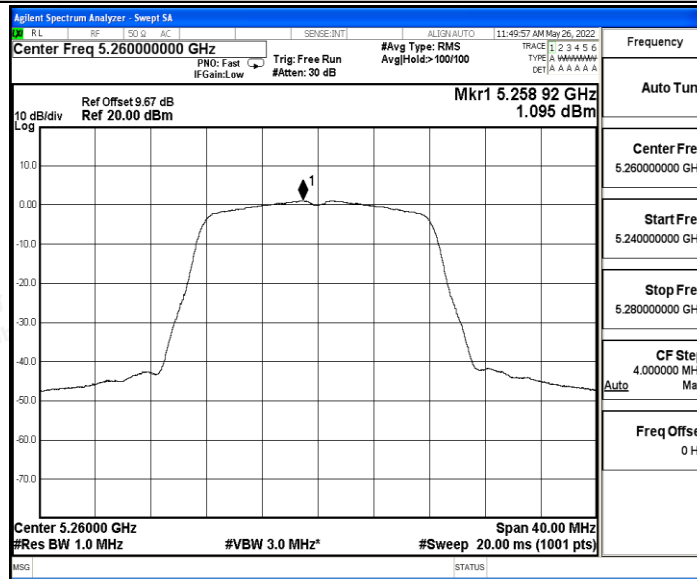


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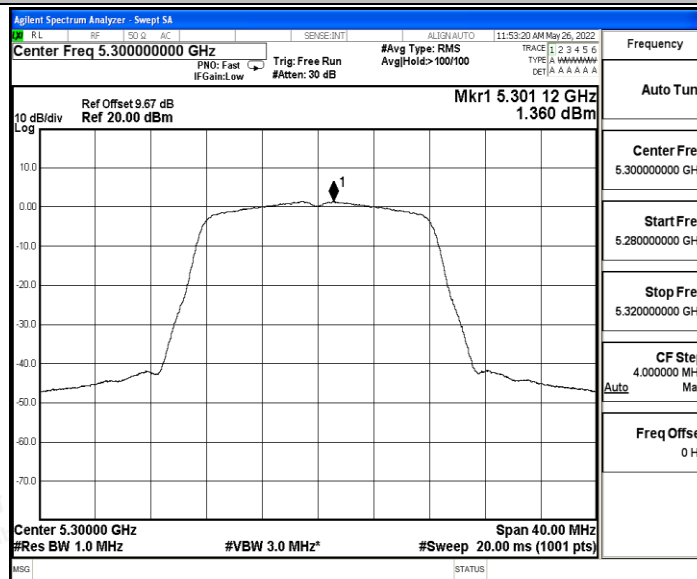


Test Graphs

11A_Ant_5260

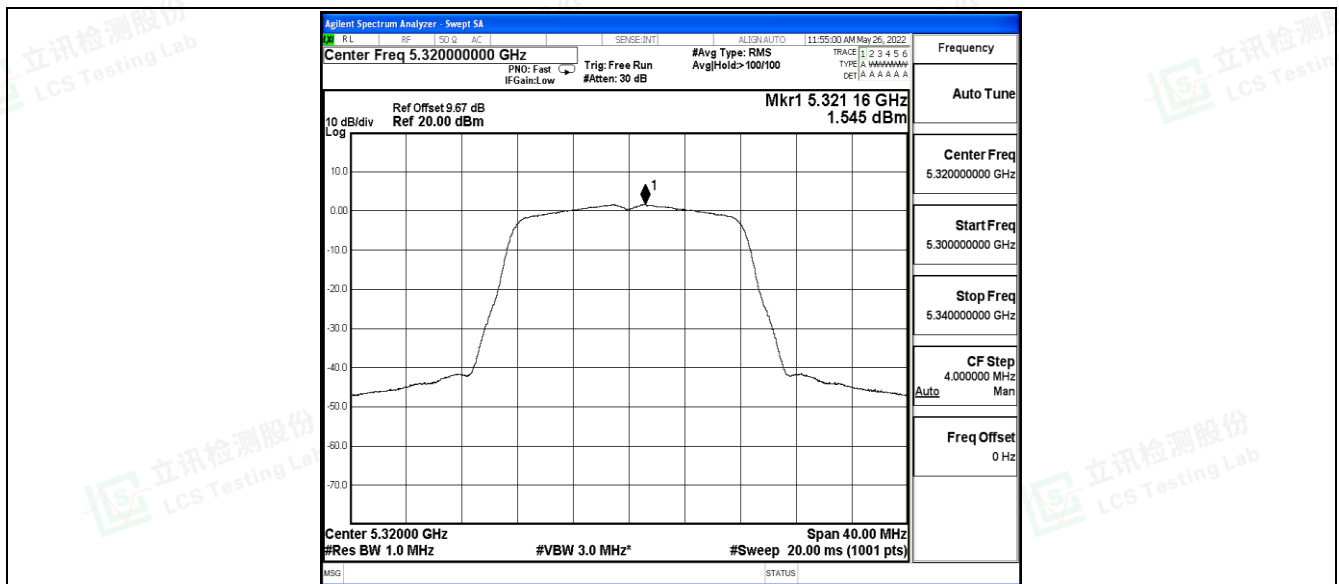


11A_Ant_5300

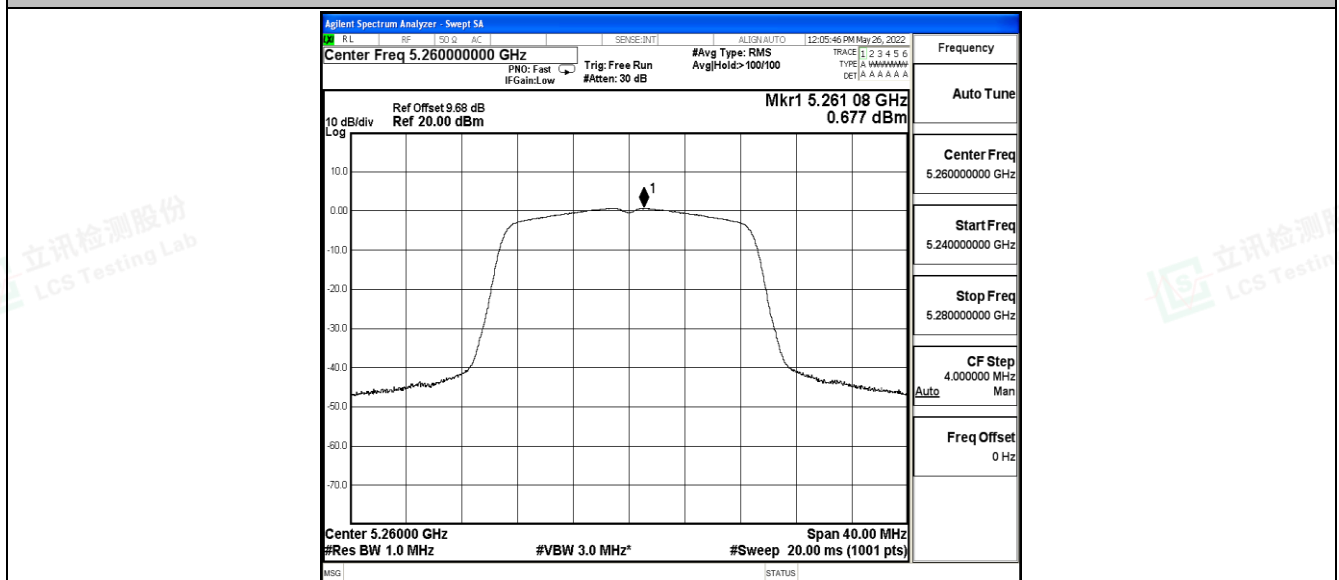


11A_Ant_5320



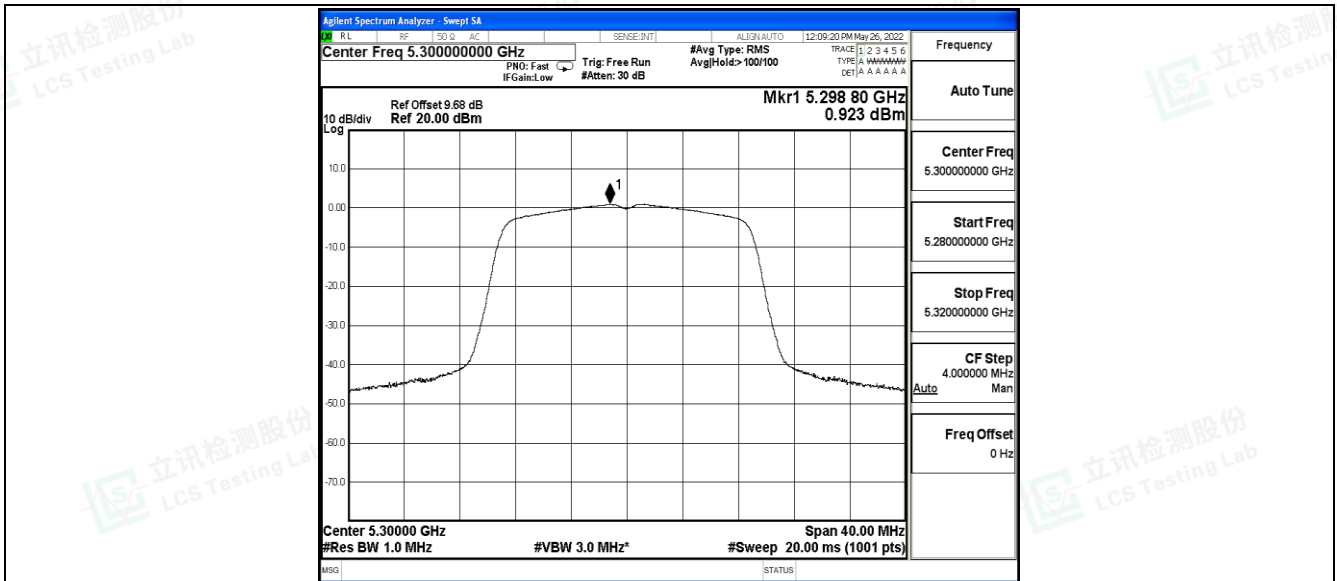


11N20SISO_Ant_5260

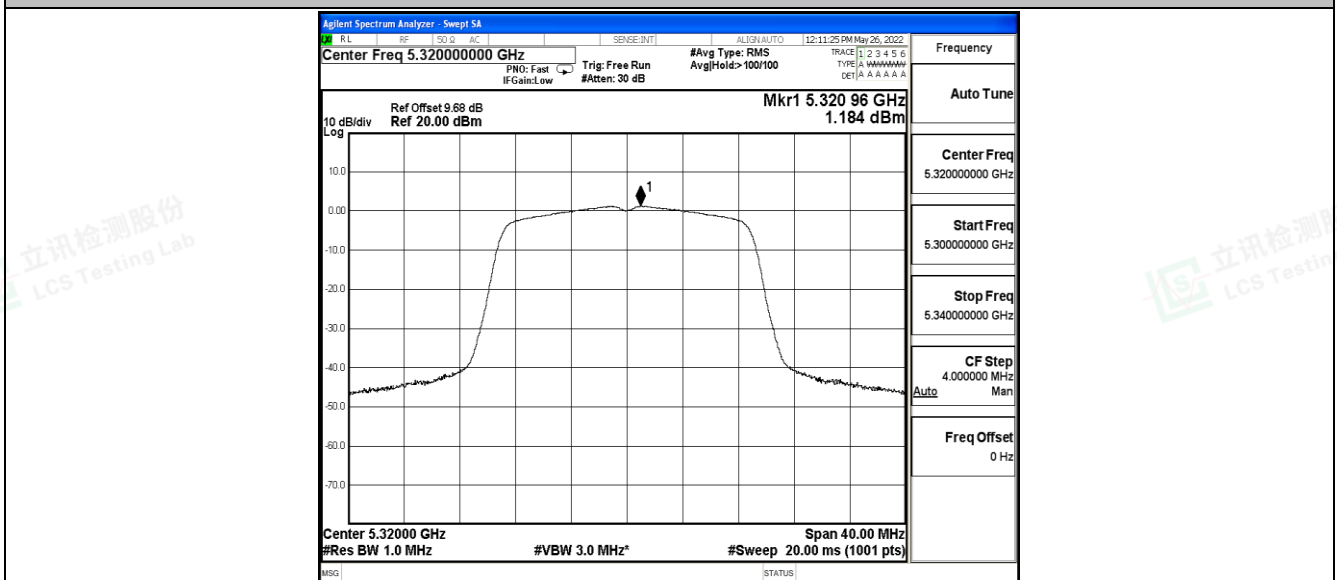


11N20SISO_Ant_5300



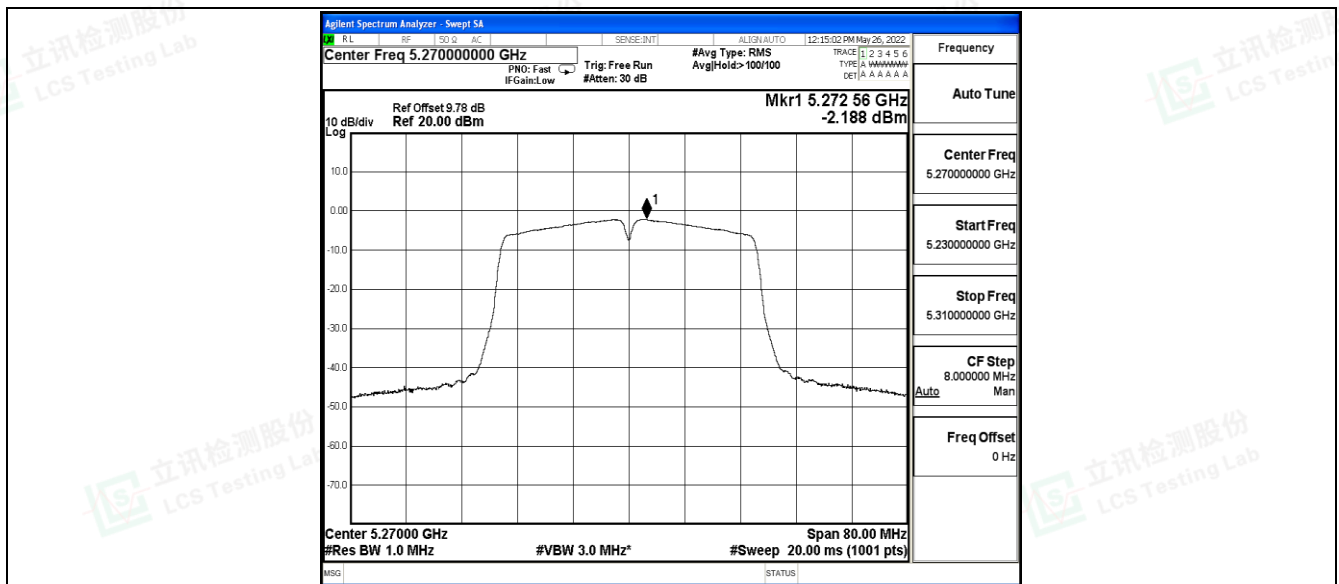


11N20SISO_Ant_5320

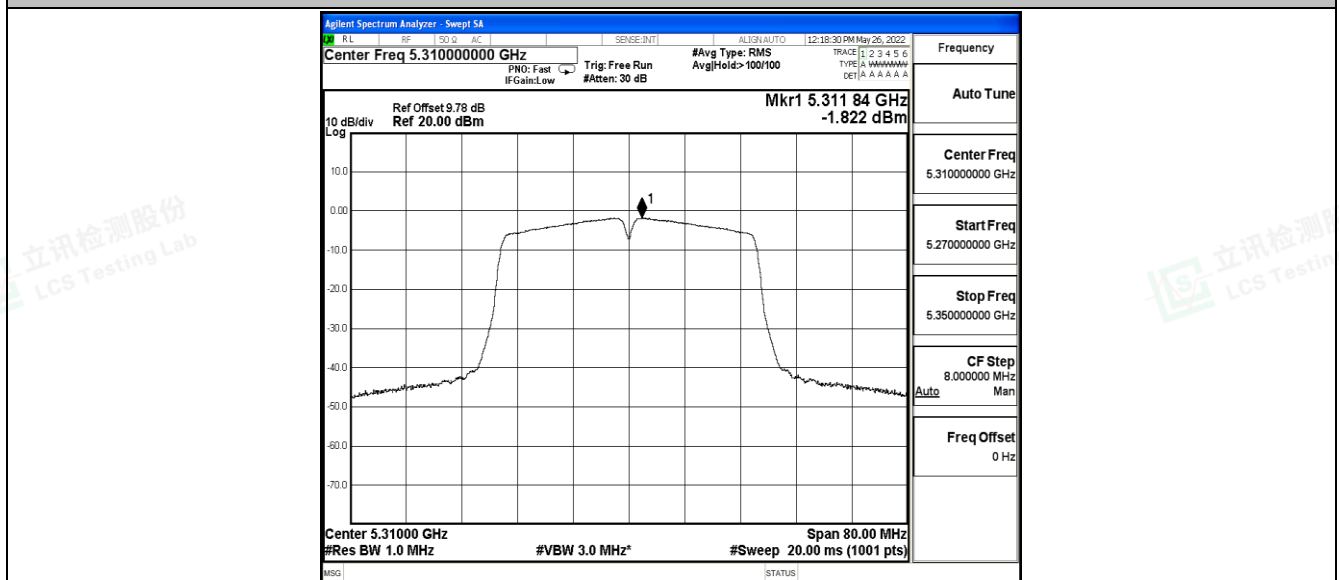


11N40SISO_Ant_5270



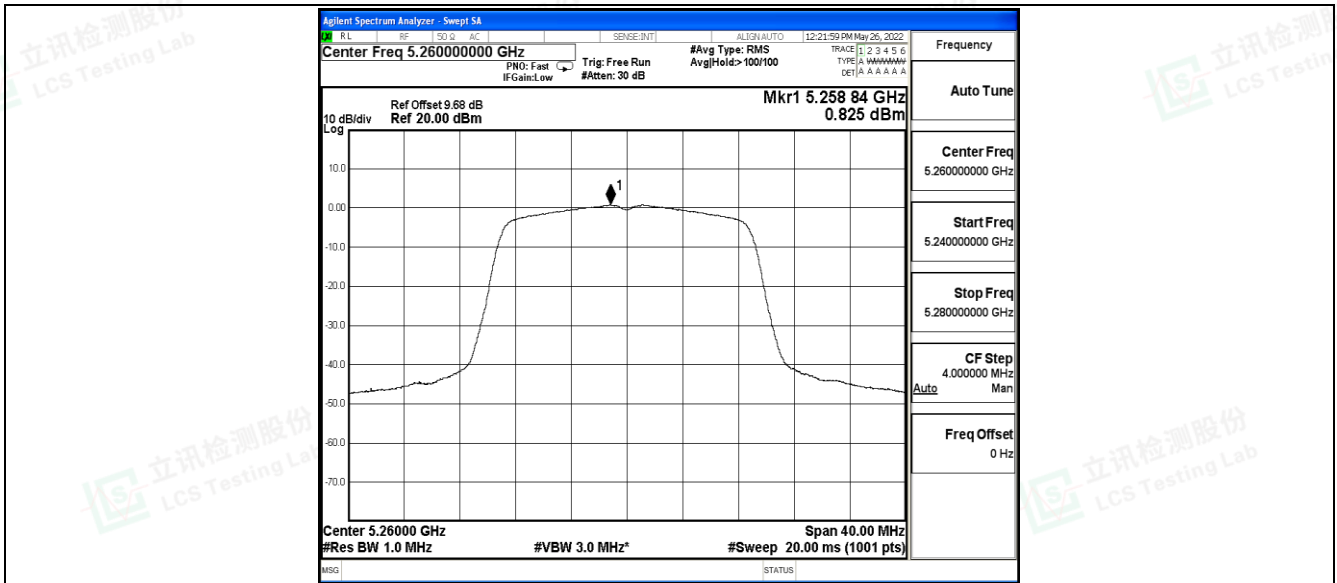


11N40SISO_Ant_5310

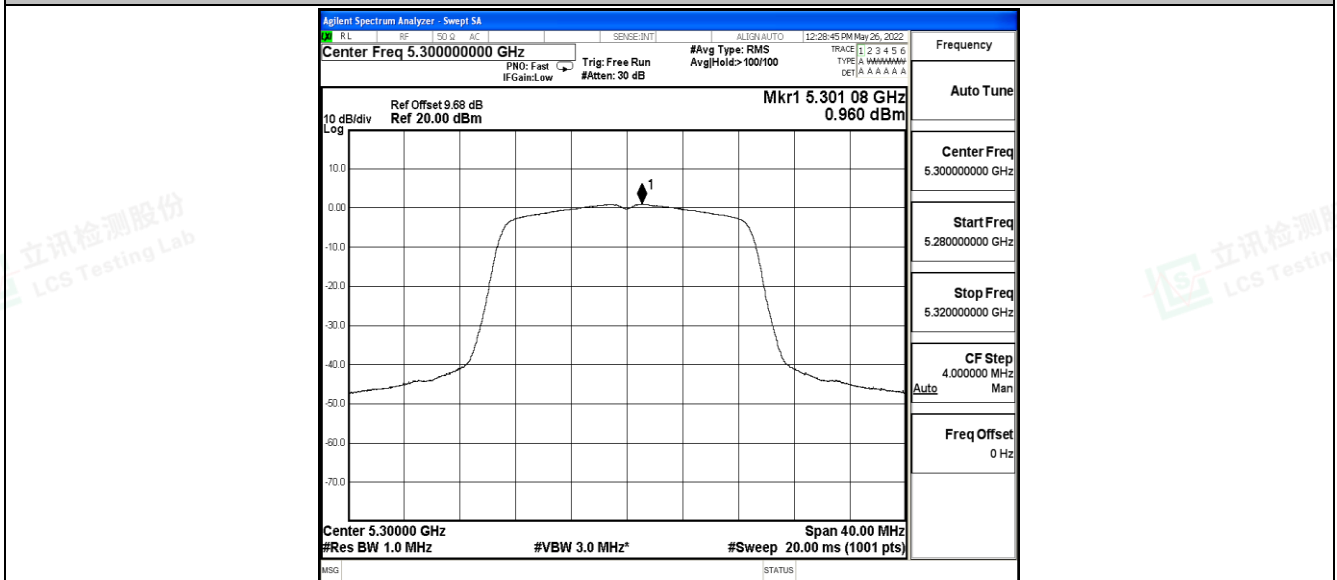


11AC20SISO_Ant_5260



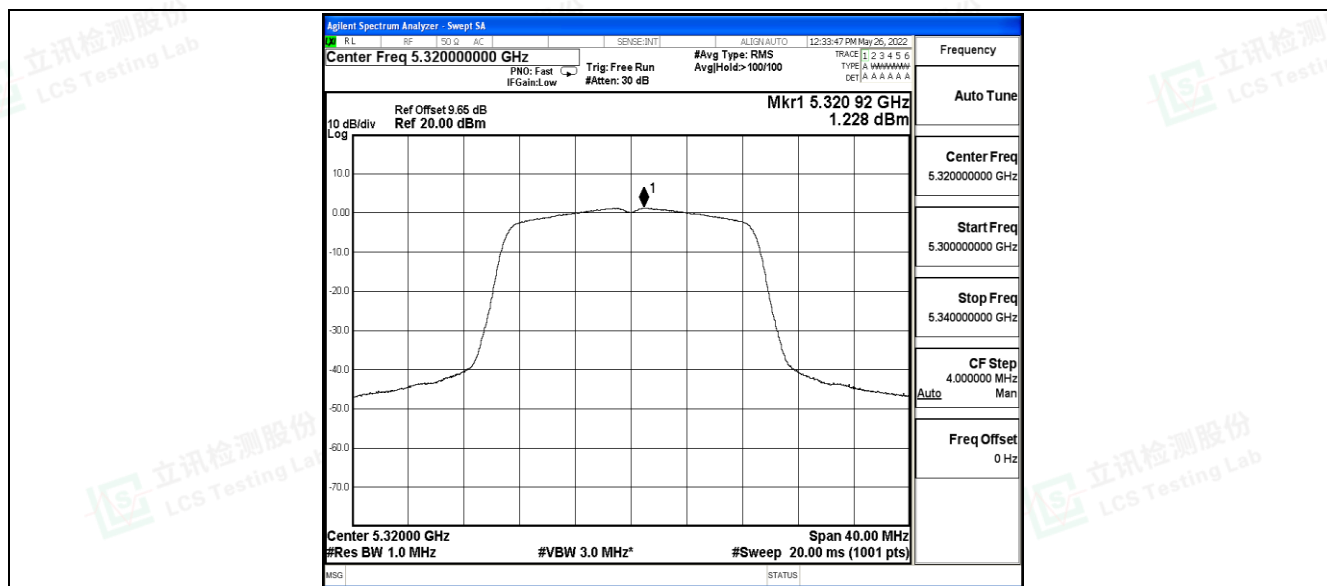


11AC20SISO_Ant_5300

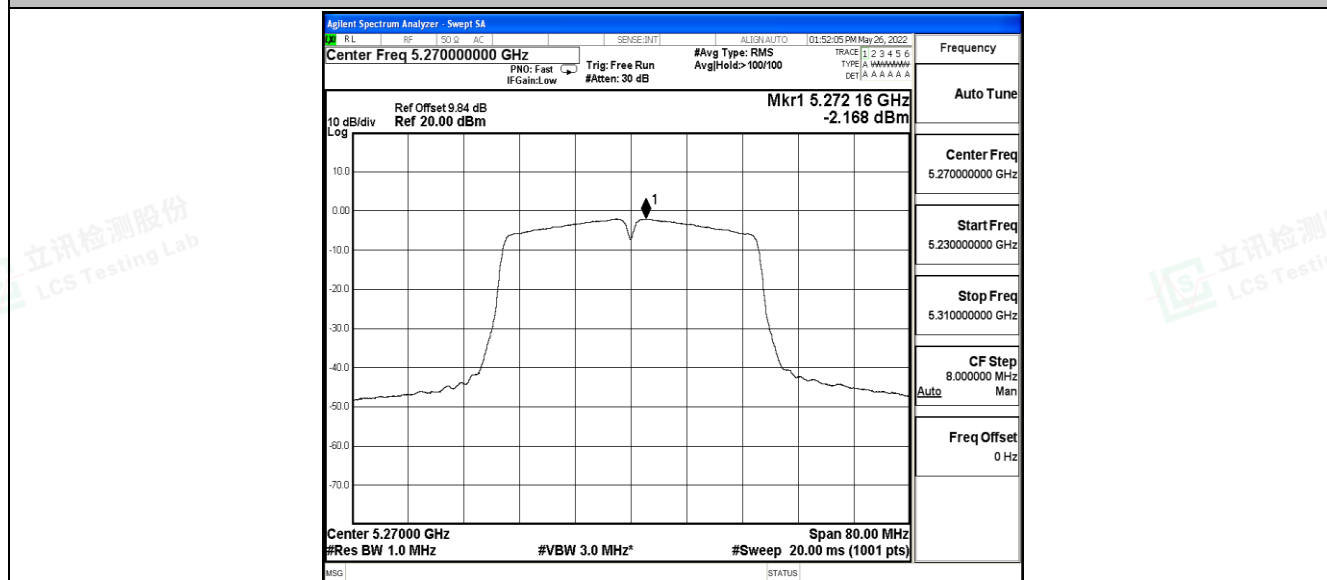


11AC20SISO_Ant_5320



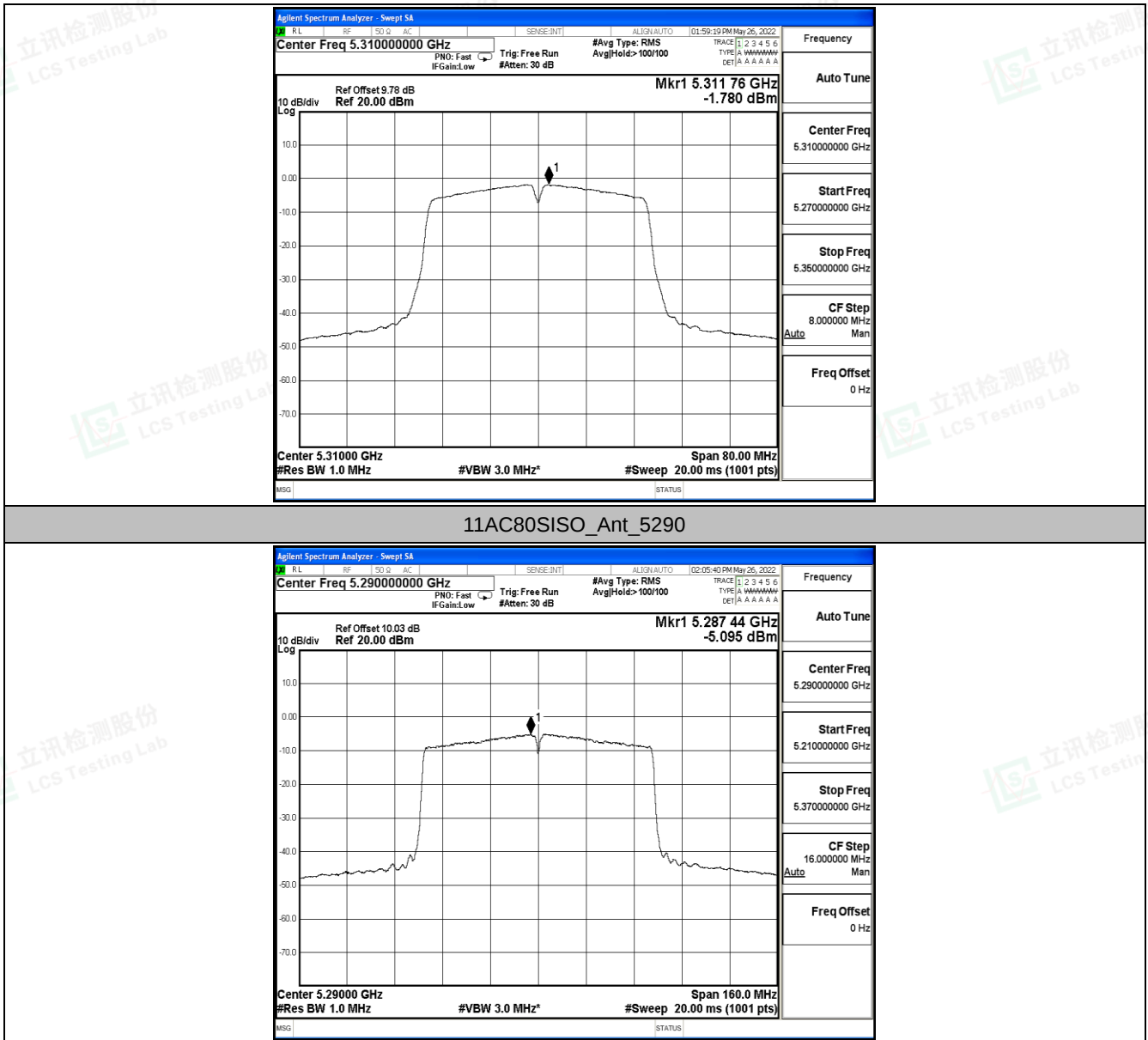


11AC40SISO_Ant_5270



11AC40SISO_Ant_5310







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	Ant	Low	5260	AV	4500.000	-58.05	≤-41.20	37.15	≤54	PASS
				AV	5149.380	-54.19	≤-41.20	41.01	≤54	PASS
				AV	5150.000	-54.25	≤-41.20	40.95	≤54	PASS
				Peak	4500.000	-48.03	≤-21.20	47.17	≤68.2	PASS
				Peak	5147.010	-44.14	≤-21.20	51.06	≤68.2	PASS
				Peak	5150.000	-45.01	≤-21.20	50.19	≤68.2	PASS
		High	5320	AV	5350.000	-50.12	≤-41.20	45.08	≤54	PASS
				AV	5350.560	-49.55	≤-41.20	45.65	≤54	PASS
				AV	5460.000	-55.63	≤-41.20	39.57	≤54	PASS
				Peak	5350.000	-29.34	≤-21.20	65.86	≤68.2	PASS
				Peak	5350.080	-29.33	≤-21.20	65.87	≤68.2	PASS
				Peak	5460.000	-46.07	≤-21.20	49.13	≤68.2	PASS
11N20SIS O	Ant	Low	5260	AV	4500.000	-58.1	≤-41.20	37.10	≤54	PASS
				AV	5140.690	-54.13	≤-41.20	41.07	≤54	PASS
				AV	5150.000	-54.17	≤-41.20	41.03	≤54	PASS
				Peak	4500.000	-48.1	≤-21.20	47.10	≤68.2	PASS
				Peak	5077.490	-44.42	≤-21.20	50.78	≤68.2	PASS
				Peak	5150.000	-45.7	≤-21.20	49.50	≤68.2	PASS
		High	5320	AV	5350.000	-50.01	≤-41.20	45.19	≤54	PASS
				AV	5350.880	-48.91	≤-41.20	46.29	≤54	PASS
				AV	5460.000	-55.68	≤-41.20	39.52	≤54	PASS
				Peak	5350.000	-36.17	≤-21.20	59.03	≤68.2	PASS
				Peak	5355.520	-30.22	≤-21.20	64.98	≤68.2	PASS
				Peak	5460.000	-47.74	≤-21.20	47.46	≤68.2	PASS
11N40SIS O	Ant	Low	5270	AV	4500.000	-57.8	≤-41.20	37.40	≤54	PASS
				AV	5149.380	-53.97	≤-41.20	41.23	≤54	PASS
				AV	5150.000	-54.18	≤-41.20	41.02	≤54	PASS
				Peak	4500.000	-49.88	≤-21.20	45.32	≤68.2	PASS
				Peak	5144.640	-44.55	≤-21.20	50.65	≤68.2	PASS
				Peak	5150.000	-46.07	≤-21.20	49.13	≤68.2	PASS
		High	5310	AV	5350.000	-46.49	≤-41.20	48.71	≤54	PASS
				AV	5350.240	-46.29	≤-41.20	48.91	≤54	PASS
				AV	5460.000	-56.07	≤-41.20	39.13	≤54	PASS
				Peak	5350.000	-29.26	≤-21.20	65.94	≤68.2	PASS
				Peak	5350.080	-28.95	≤-21.20	66.25	≤68.2	PASS



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11AC20SI SO	Ant	Low	5260	Peak	5460.000	-47.96	≤-21.20	47.24	≤68.2	PASS
				AV	4500.000	-58.12	≤-41.20	37.08	≤54	PASS
				AV	5144.640	-54.16	≤-41.20	41.04	≤54	PASS
				AV	5150.000	-54.3	≤-41.20	40.90	≤54	PASS
				Peak	4500.000	-49.22	≤-21.20	45.98	≤68.2	PASS
				Peak	5119.360	-43.94	≤-21.20	51.26	≤68.2	PASS
				Peak	5150.000	-46.07	≤-21.20	49.13	≤68.2	PASS
		High	5320	AV	5350.000	-48.79	≤-41.20	46.41	≤54	PASS
				AV	5350.400	-48.31	≤-41.20	46.89	≤54	PASS
				AV	5460.000	-55.64	≤-41.20	39.56	≤54	PASS
				Peak	5350.000	-33.07	≤-21.20	62.13	≤68.2	PASS
				Peak	5350.560	-31.24	≤-21.20	63.96	≤68.2	PASS
				Peak	5460.000	-46.62	≤-21.20	48.58	≤68.2	PASS
11AC40SI SO	Ant	Low	5270	AV	4500.000	-58.02	≤-41.20	37.18	≤54	PASS
				AV	5143.060	-53.96	≤-41.20	41.24	≤54	PASS
				AV	5150.000	-54.1	≤-41.20	41.10	≤54	PASS
				Peak	4500.000	-49.91	≤-21.20	45.29	≤68.2	PASS
				Peak	5052.210	-44.45	≤-21.20	50.75	≤68.2	PASS
				Peak	5150.000	-45.68	≤-21.20	49.52	≤68.2	PASS
		High	5310	AV	5350.000	-46.91	≤-41.20	48.29	≤54	PASS
				AV	5350.400	-45.84	≤-41.20	49.36	≤54	PASS
				AV	5460.000	-55.2	≤-41.20	40.00	≤54	PASS
				Peak	5350.000	-33.44	≤-21.20	61.76	≤68.2	PASS
				Peak	5352.480	-29.66	≤-21.20	65.54	≤68.2	PASS
				Peak	5460.000	-47.19	≤-21.20	48.01	≤68.2	PASS
11AC80SI SO	Ant	Low	5290	AV	4500.000	-57.59	≤-41.20	37.61	≤54	PASS
				AV	5148.000	-52.98	≤-41.20	42.22	≤54	PASS
				AV	5150.000	-53.3	≤-41.20	41.90	≤54	PASS
				Peak	4500.000	-49.92	≤-21.20	45.28	≤68.2	PASS
				Peak	5149.500	-43.03	≤-21.20	52.17	≤68.2	PASS
				Peak	5150.000	-44.36	≤-21.20	50.84	≤68.2	PASS
		High	5290	AV	5350.000	-41.66	≤-41.20	53.54	≤54	PASS
				AV	5460.000	-54.83	≤-41.20	40.37	≤54	PASS
				Peak	5350.000	-31.89	≤-21.20	63.31	≤68.2	PASS
				Peak	5359.800	-28.62	≤-21.20	66.58	≤68.2	PASS
				Peak	5460.000	-46.19	≤-21.20	49.01	≤68.2	PASS

Note:

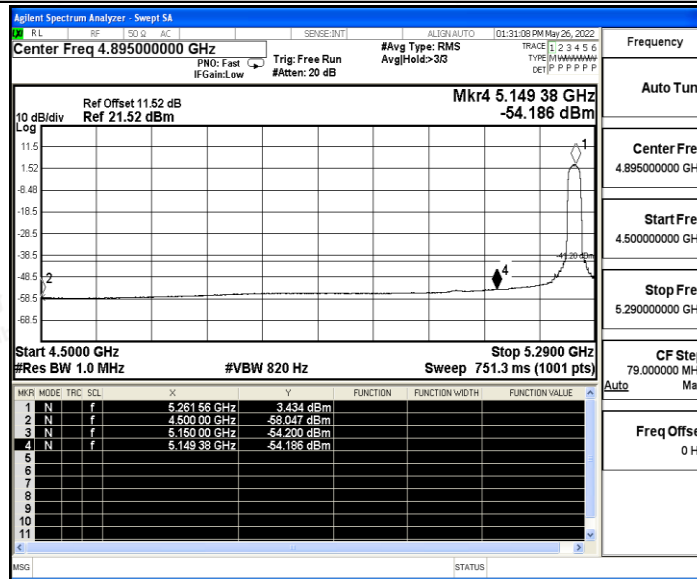
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



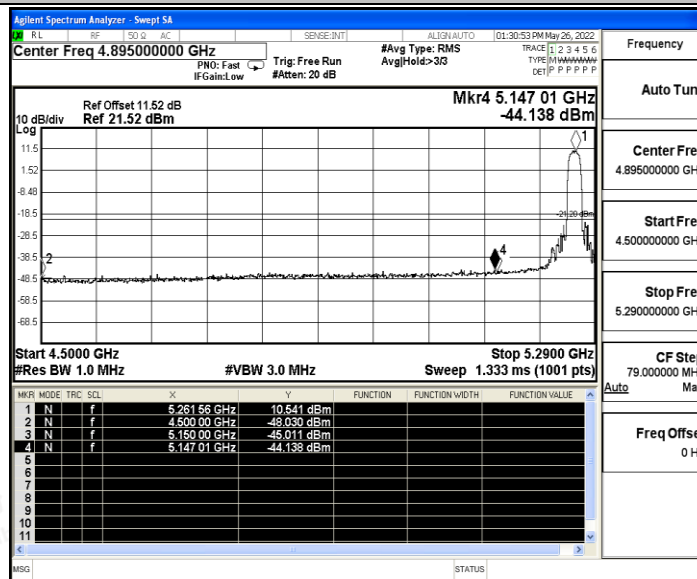


Test Graphs

11A_Ant_Low_5260_AV

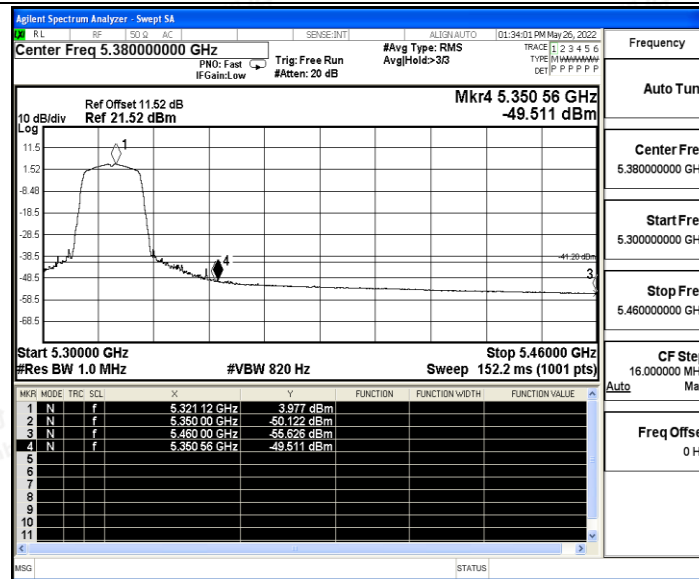


11A_Ant_Low_5260_Peak

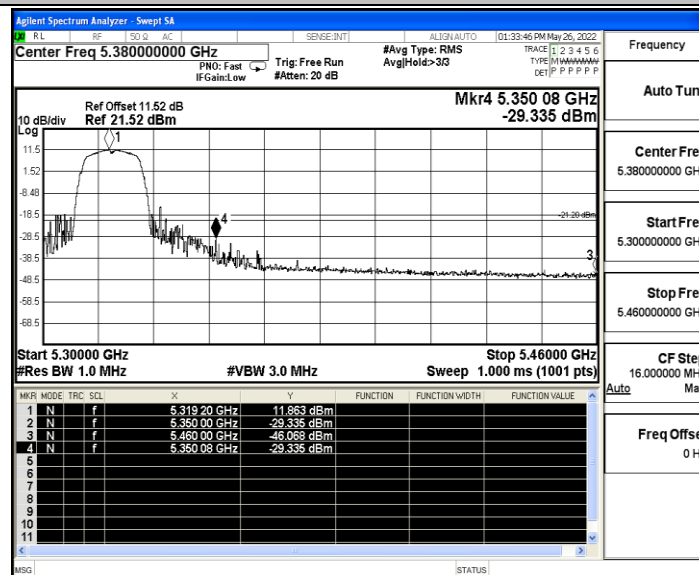


11A_Ant_High_5320_AV



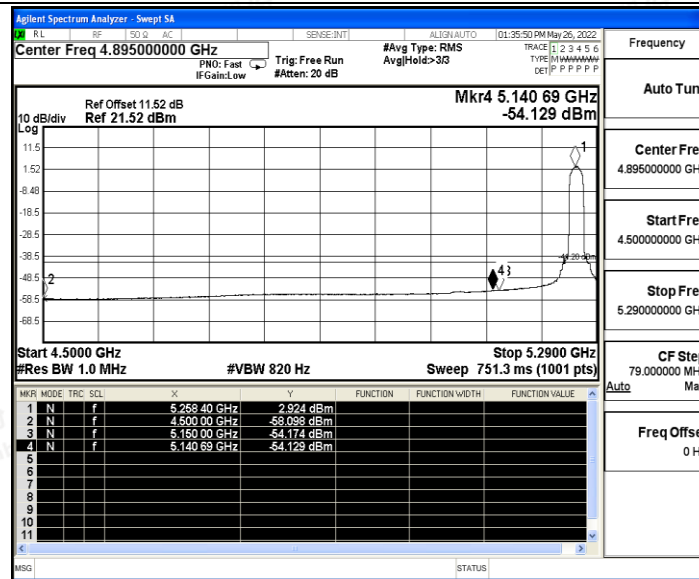


11A_Ant_High_5320_Peak

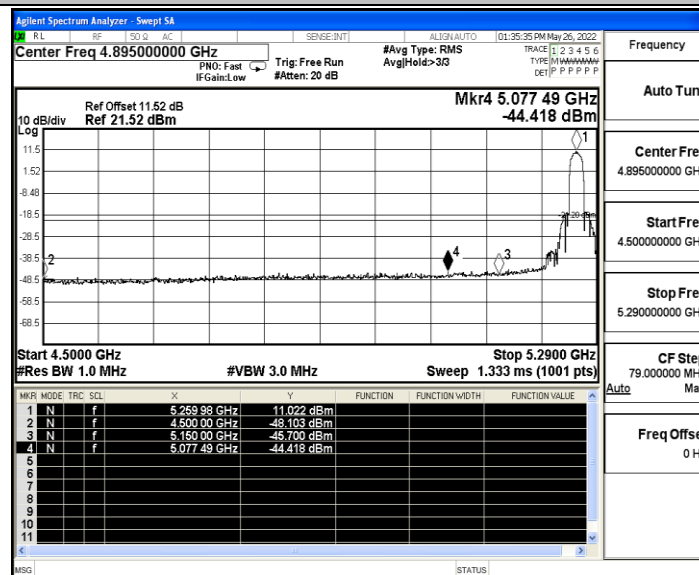


11N20SISO_Ant_Low_5260_AV



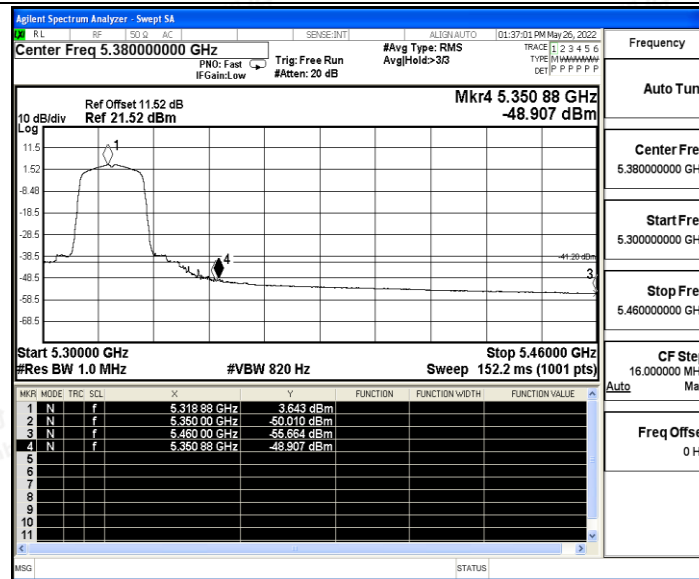


11N20SISO_Ant_Low_5260_Peak

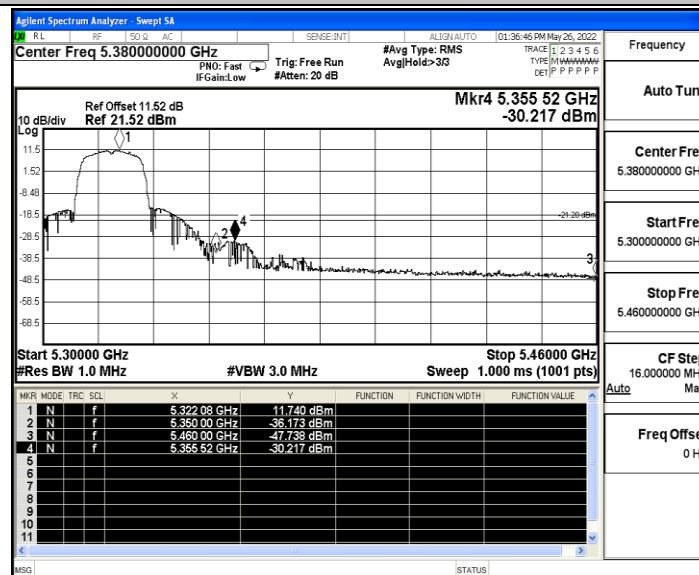


11N20SISO_Ant_High_5320_AV



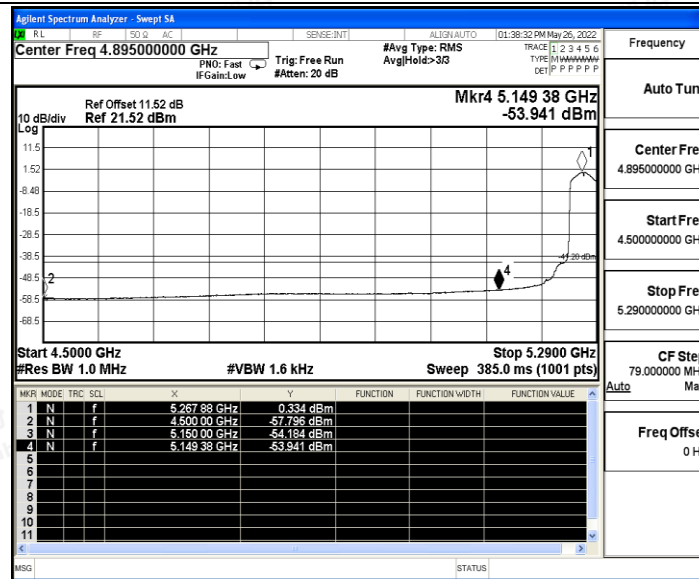


11N20SISO_Ant_High_5320_Peak

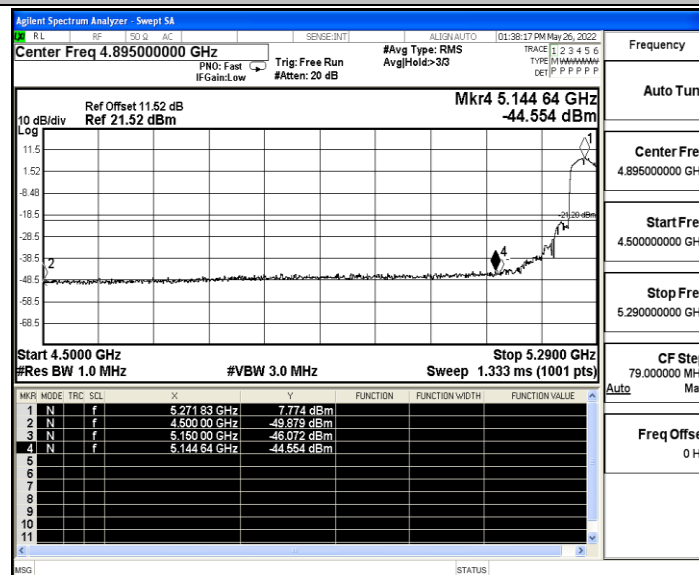


11N40SISO_Ant_Low_5270_AV



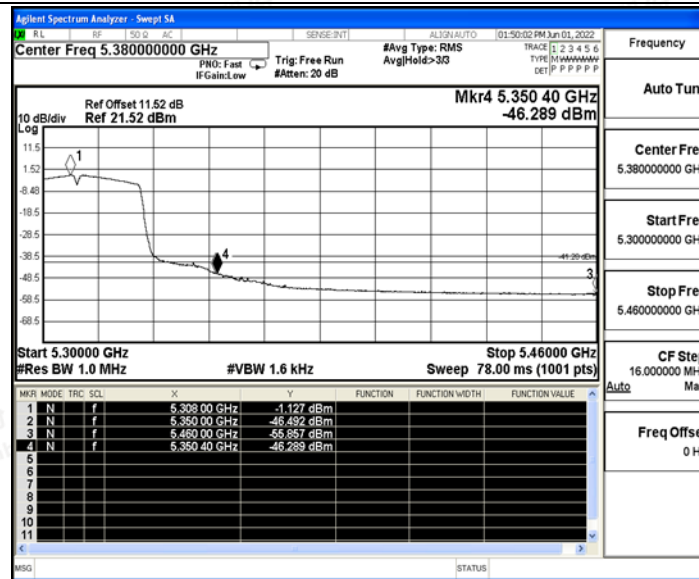


11N40SISO_Ant_Low_5270_Peak

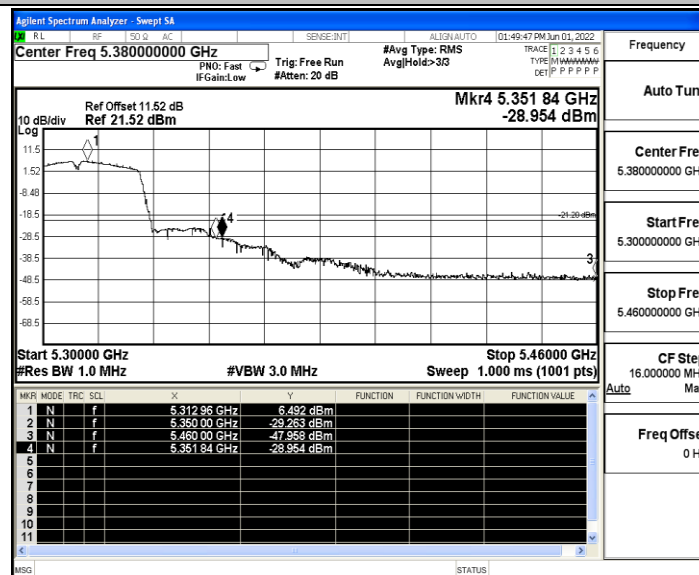


11N40SISO_Ant_High_5310_AV



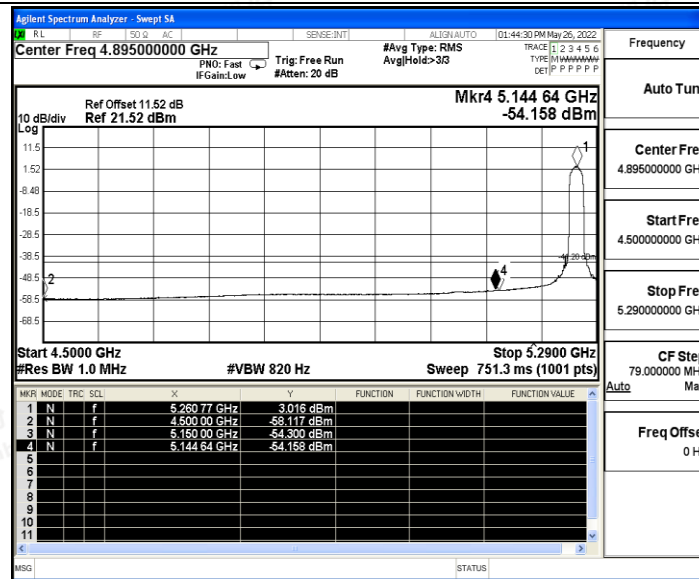


11N40SISO_Ant_High_5310_Peak

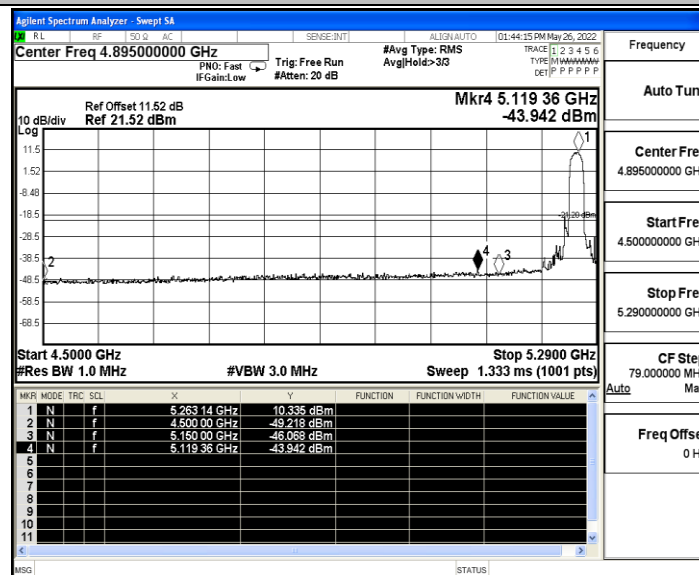


11AC20SISO_Ant_Low_5260_AV



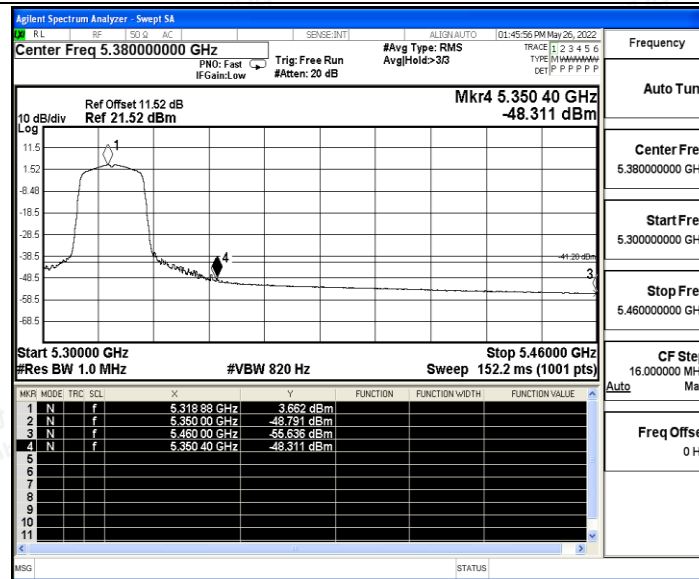


11AC20SISO_Ant_Low_5260_Peak

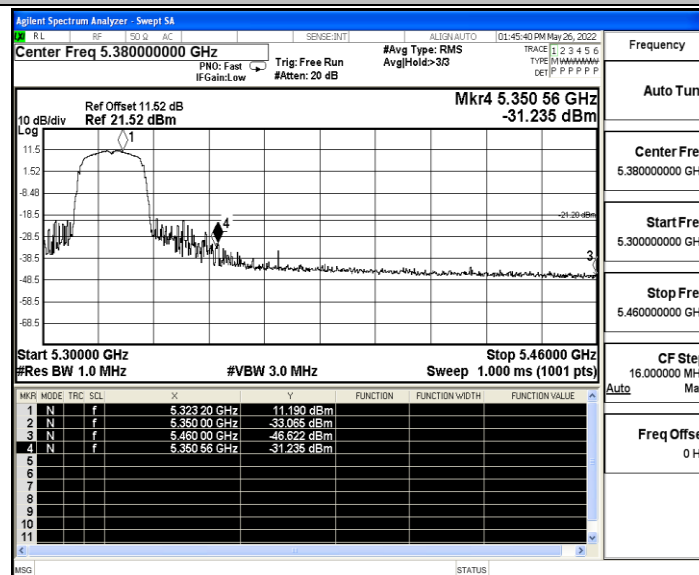


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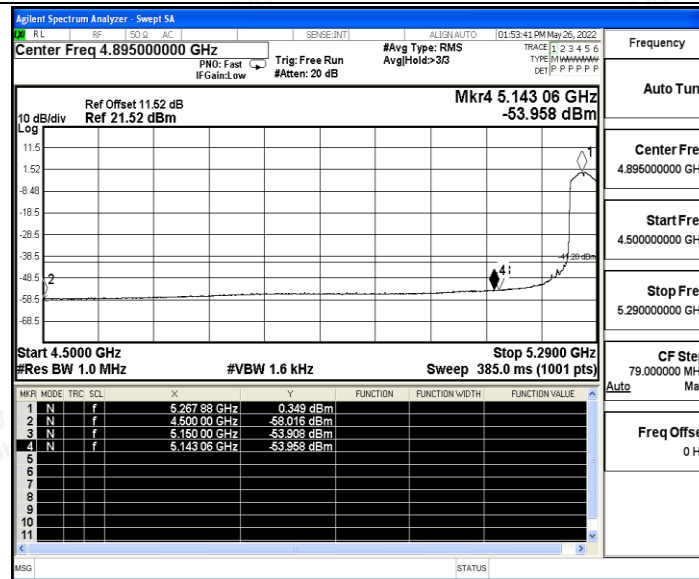


11AC20SISO_Ant_High_5320_Peak

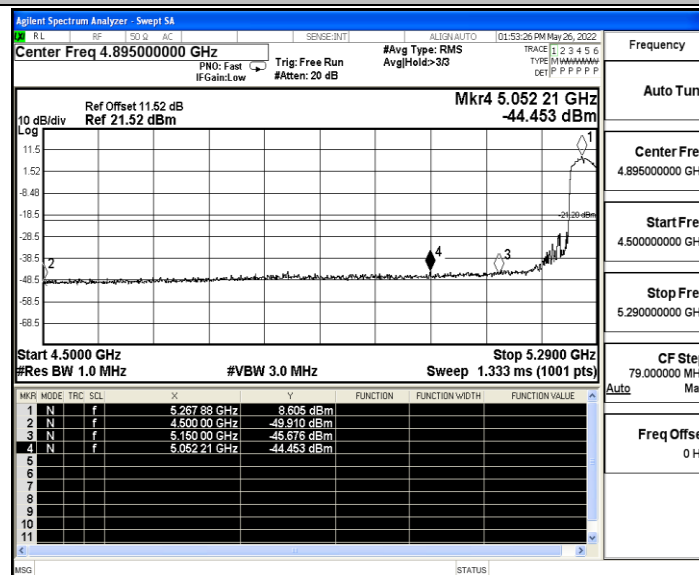


11AC40SISO_Ant_Low_5270_AV



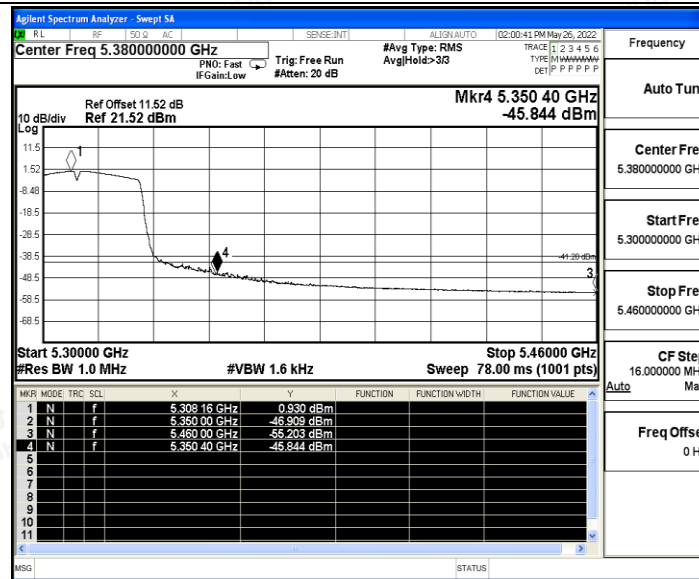


11AC40SISO_Ant_Low_5270_Peak

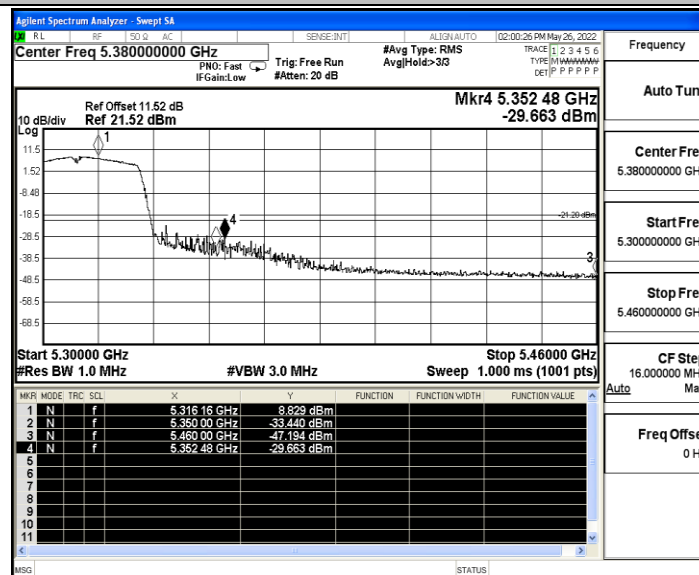


11AC40SISO_Ant_High_5310_AV



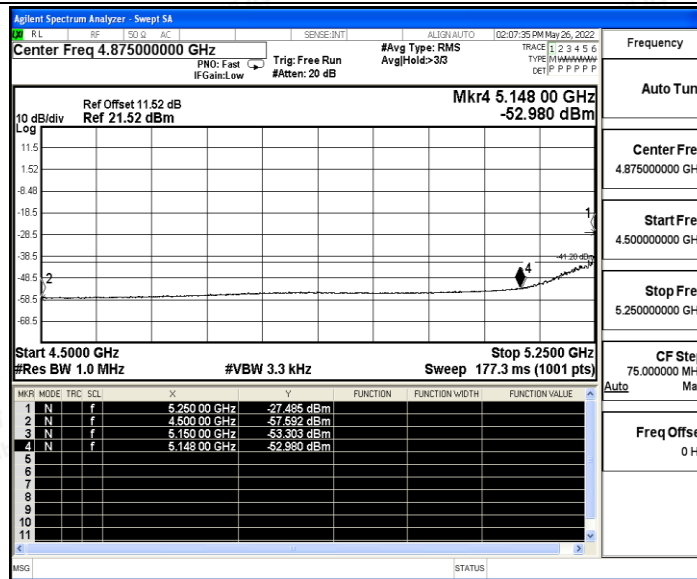


11AC40SISO_Ant_High_5310_Peak

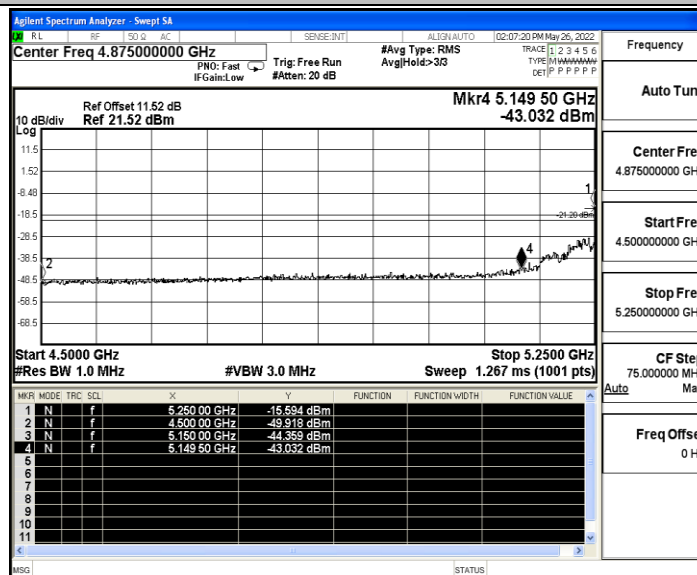


11AC80SISO_Ant_Low_5290_AV



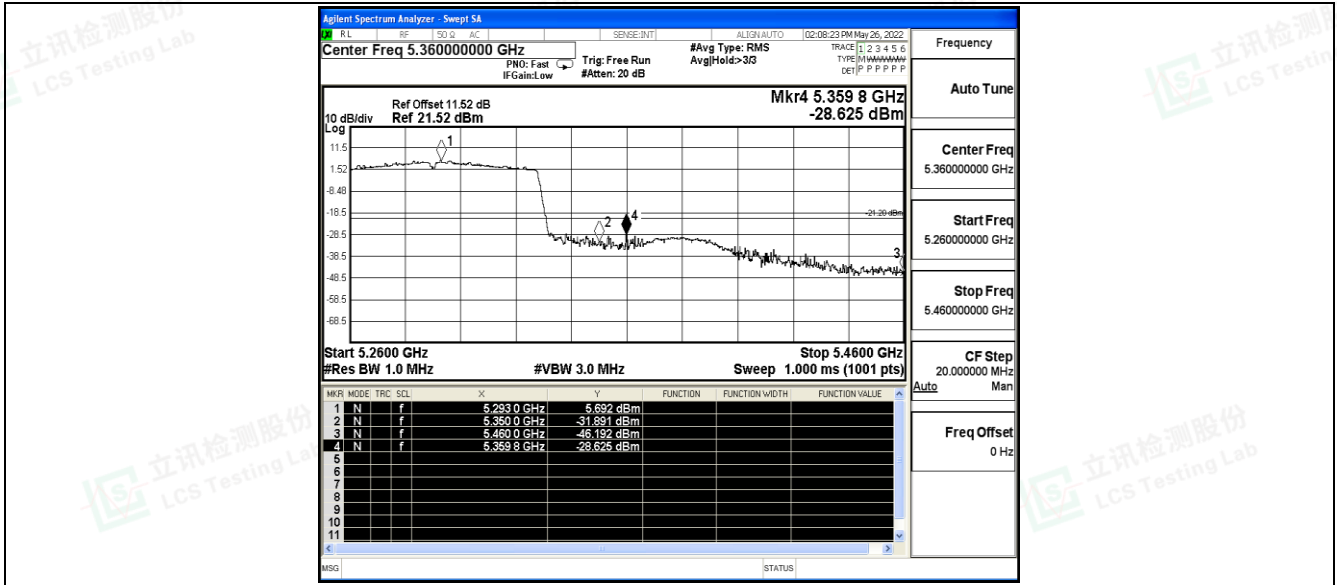


11AC80SISO_Ant_Low_5290_Peak



11AC80SISO_Ant_High_5290_Peak







C.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant	5260	NV	NT	-20000	-3.802281	20	PASS
			LV	NT	-20000	-3.802281	20	PASS
			HV	NT	-20000	-3.802281	20	PASS
		5300	NV	NT	-40000	-7.54717	20	PASS
			LV	NT	-20000	-3.773585	20	PASS
			HV	NT	-40000	-7.54717	20	PASS
		5320	NV	NT	-40000	-7.518797	20	PASS
			LV	NT	-20000	-3.759398	20	PASS
			HV	NT	-40000	-7.518797	20	PASS
11AC40SIS O	Ant	5270	NV	NT	-40000	-7.590133	20	PASS
			LV	NT	-40000	-7.590133	20	PASS
			HV	NT	0	0	20	PASS
		5310	NV	NT	-40000	-7.532957	20	PASS
			LV	NT	-40000	-7.532957	20	PASS
			HV	NT	0	0	20	PASS
11AC80SIS O	Ant	5290	NV	NT	-80000	-15.122873	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
11AC20SIS O	Ant	5260	NV	-30	-20000	-3.802281	20	PASS
			NV	-20	-40000	-7.604563	20	PASS
			NV	-10	-20000	-3.802281	20	PASS
			NV	0	-20000	-3.802281	20	PASS
			NV	10	-20000	-3.802281	20	PASS
			NV	20	-20000	-3.802281	20	PASS
			NV	30	-20000	-3.802281	20	PASS
			NV	40	-40000	-7.604563	20	PASS
			NV	50	-20000	-3.802281	20	PASS
		5300	NV	-30	-40000	-7.54717	20	PASS
			NV	-20	-20000	-3.773585	20	PASS
			NV	-10	-20000	-3.773585	20	PASS





			NV	0	-20000	-3.773585	20	PASS
			NV	10	-20000	-3.773585	20	PASS
			NV	20	-40000	-7.54717	20	PASS
			NV	30	-20000	-3.773585	20	PASS
			NV	40	-20000	-3.773585	20	PASS
			NV	50	-40000	-7.54717	20	PASS
		5320	NV	-30	-20000	-3.759398	20	PASS
			NV	-20	-20000	-3.759398	20	PASS
			NV	-10	-40000	-7.518797	20	PASS
			NV	0	-40000	-7.518797	20	PASS
			NV	10	-20000	-3.759398	20	PASS
			NV	20	-20000	-3.759398	20	PASS
			NV	30	-20000	-3.759398	20	PASS
			NV	40	-20000	-3.759398	20	PASS
			NV	50	-20000	-3.759398	20	PASS
11AC40SIS O	Ant	5270	NV	-30	-40000	-7.590133	20	PASS
			NV	-20	-40000	-7.590133	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	-40000	-7.590133	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	-40000	-7.590133	20	PASS
			NV	40	0	0	20	PASS
			NV	50	-40000	-7.590133	20	PASS
		5310	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	-40000	-7.532957	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	-40000	-7.532957	20	PASS
11AC80SIS O	Ant	5290	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	-80000	-15.122873	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	-80000	-15.122873	20	PASS



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Scan code to check authenticity



C.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant	5260	1.39	1.44	96.53	---	---
		5300	1.39	1.44	96.53	---	---
		5320	1.39	1.44	96.53	---	---
11N20SISO	Ant	5260	1.30	1.35	96.30	---	---
		5300	1.30	1.35	96.30	---	---
		5320	1.30	1.35	96.30	---	---
11N40SISO	Ant	5270	0.65	0.69	94.20	---	---
		5310	0.65	0.69	94.20	---	---
11AC20SISO	Ant	5260	1.31	1.36	96.32	---	---
		5300	1.31	1.36	96.32	---	---
		5320	1.31	1.35	97.04	---	---
11AC40SISO	Ant	5270	0.65	0.70	92.86	---	---
		5310	0.66	0.70	94.29	---	---
11AC80SISO	Ant	5290	0.32	0.36	88.89	---	---

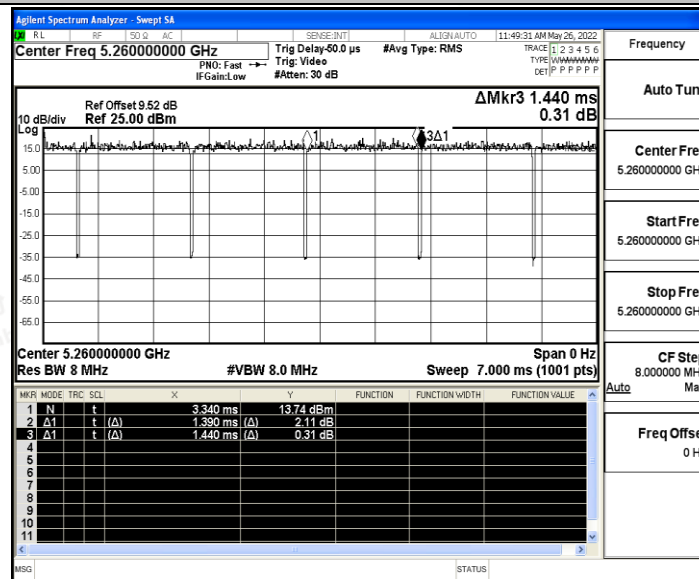


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Scan code to check authenticity

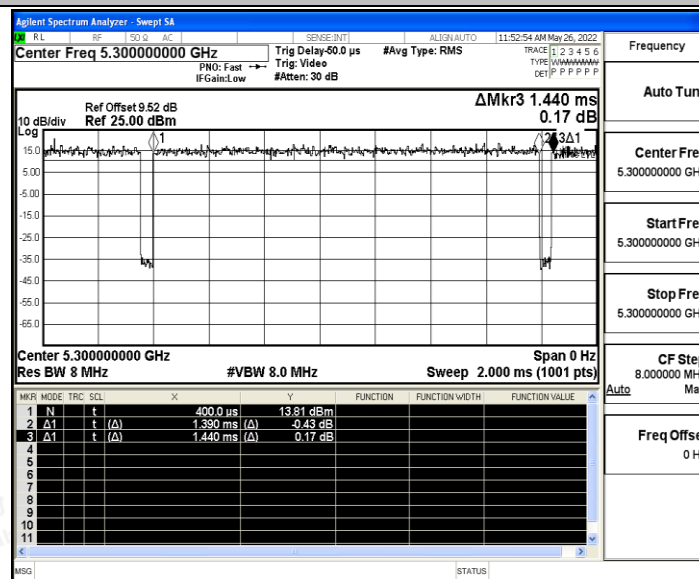


Test Graphs

11A_Ant_5260

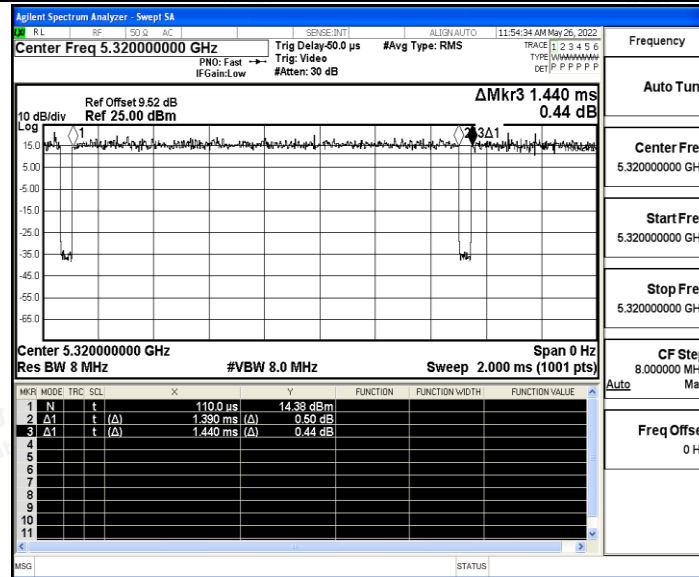


11A_Ant_5300

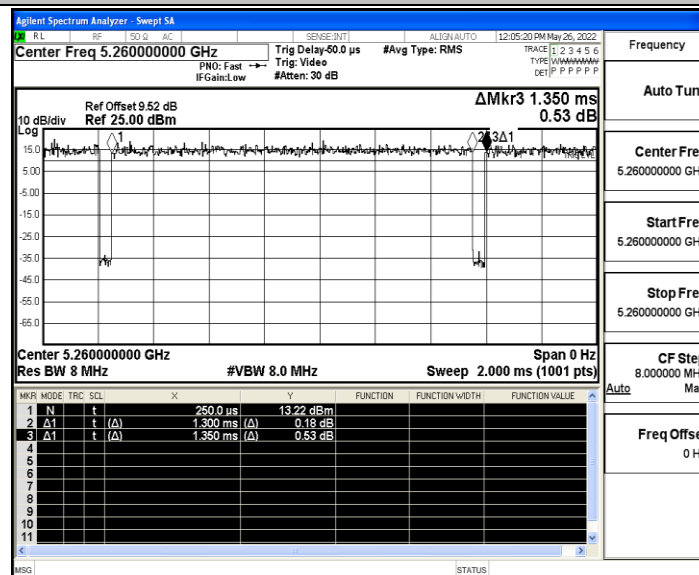


11A_Ant_5320



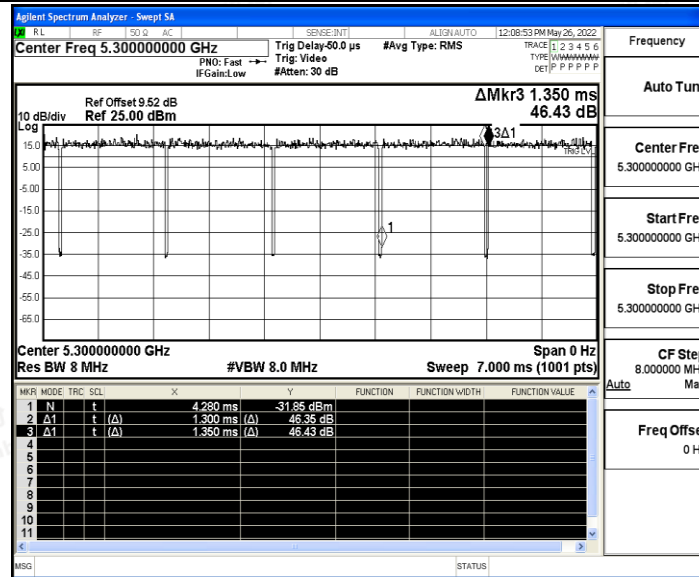


11N20SISO_Ant_5260

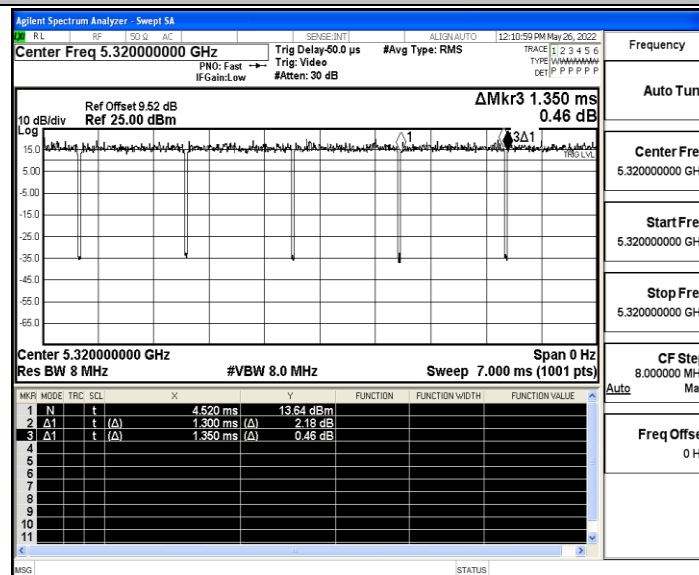


11N20SISO_Ant_5300



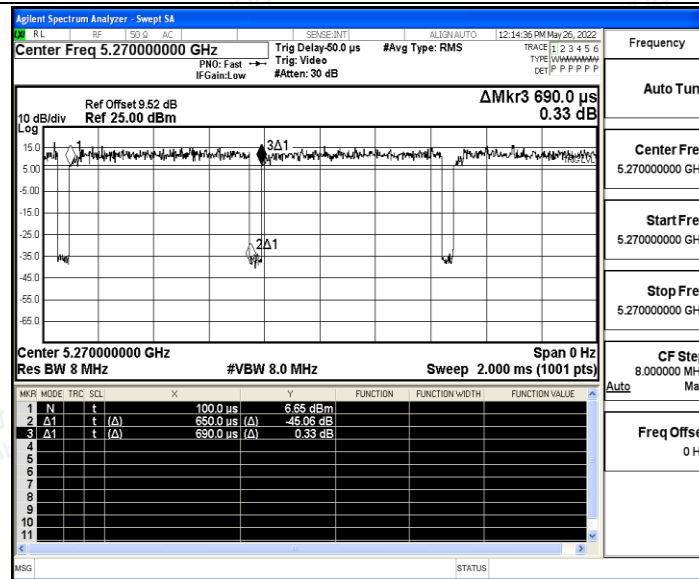


11N20SISO_Ant_5320

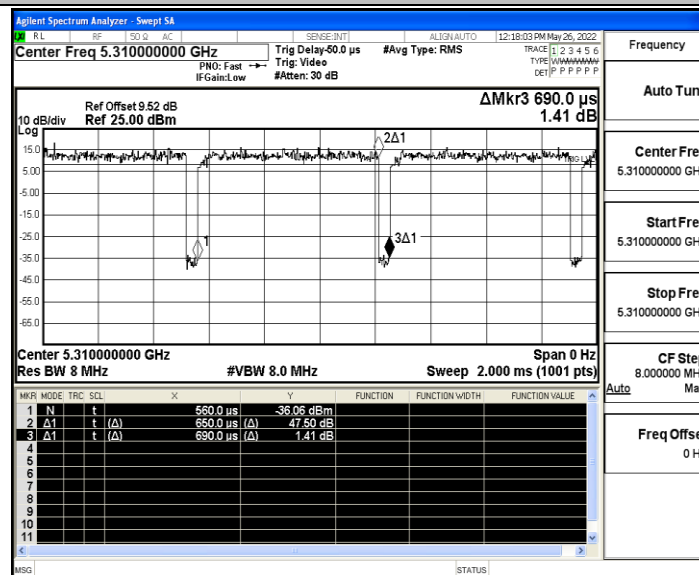


11N40SISO_Ant_5270



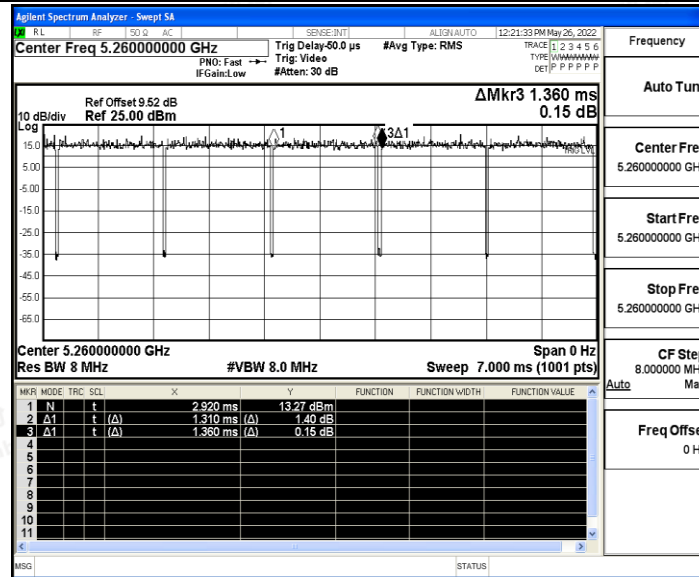


11N40SISO_Ant_5310

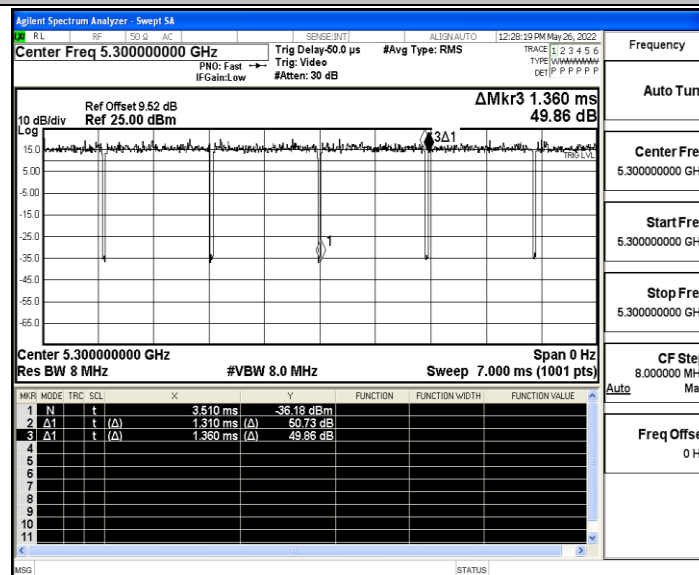


11AC20SISO_Ant_5260



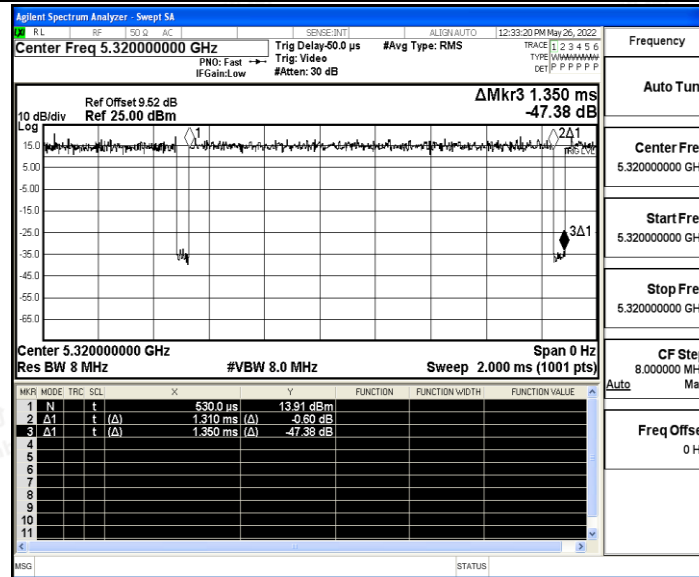


11AC20SISO_Ant_5300

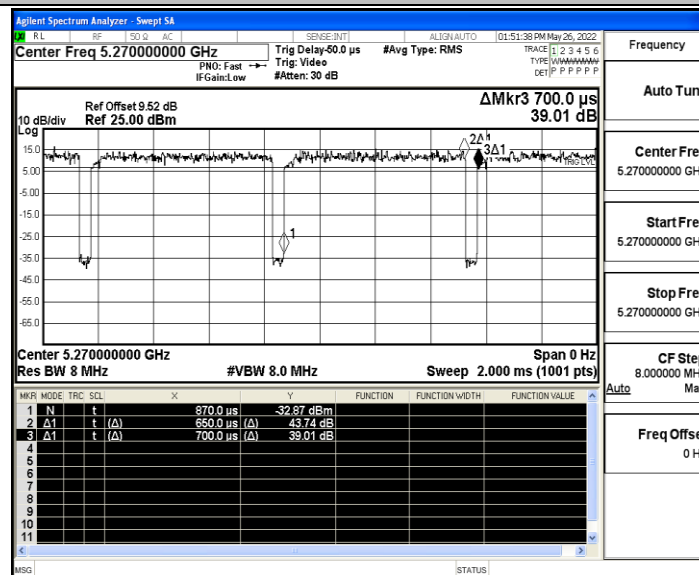


11AC20SISO_Ant_5320





11AC40SISO_Ant_5270



11AC40SISO_Ant_5310



