



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: T10_Pro

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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D.1 Emission Bandwidth

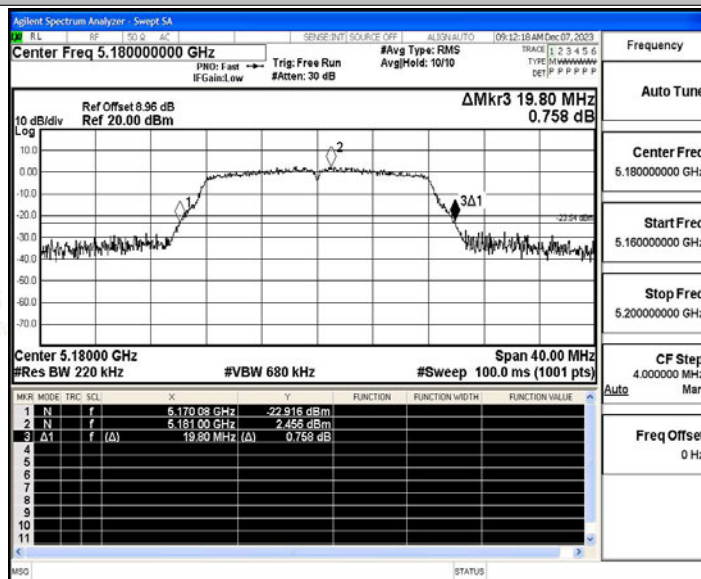
Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.800	5170.080	5189.880	---	---
		5220	20.120	5210.000	5230.120	---	---
		5240	19.920	5230.000	5249.920	---	---
11N20SISO	Ant1	5180	20.160	5169.920	5190.080	---	---
		5220	20.320	5209.760	5230.080	---	---
		5240	20.240	5229.880	5250.120	---	---
11N40SISO	Ant1	5190	40.240	5169.840	5210.080	---	---
		5230	40.800	5209.680	5250.480	---	---
11AC20SISO	Ant1	5180	20.240	5169.880	5190.120	---	---
		5220	20.200	5209.840	5230.040	---	---
		5240	20.200	5229.800	5250.000	---	---
11AC40SISO	Ant1	5190	40.400	5169.920	5210.320	---	---
		5230	40.560	5209.600	5250.160	---	---
11AC80SISO	Ant1	5210	80.800	5169.520	5250.320	---	---

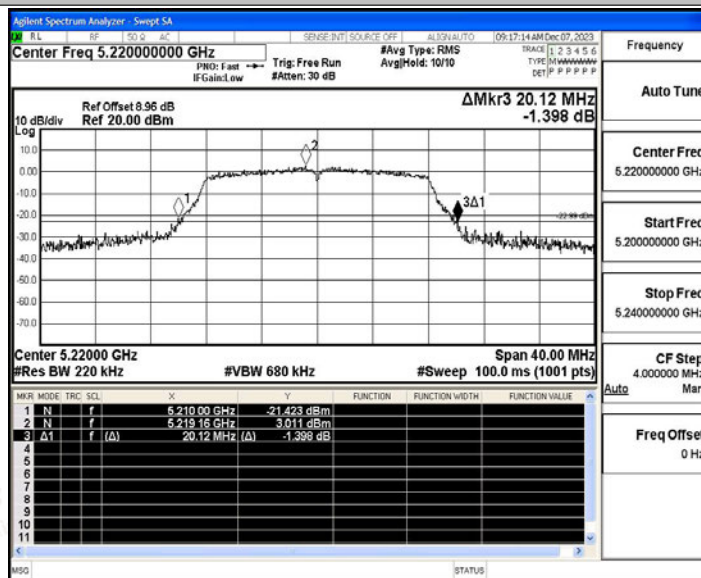




11A Ant1 5180



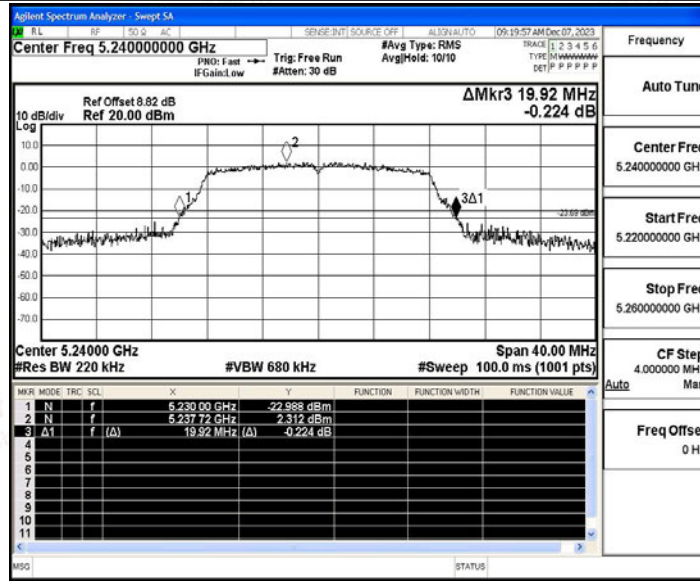
11A Ant1 5220



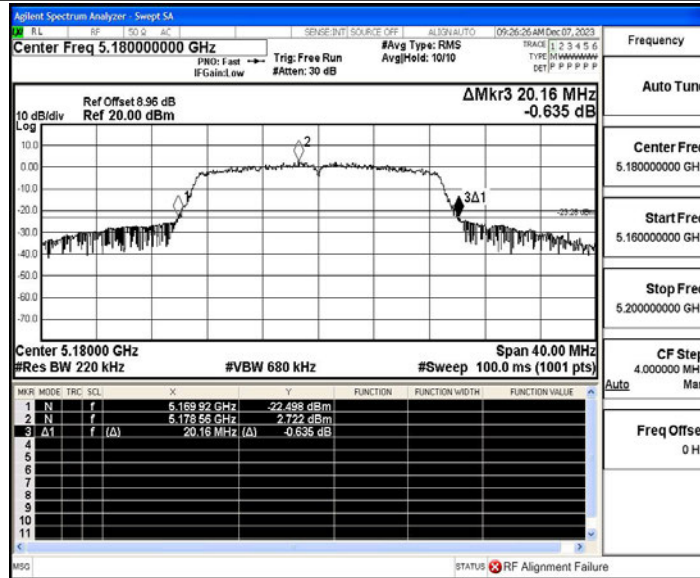
11A Ant1 5240



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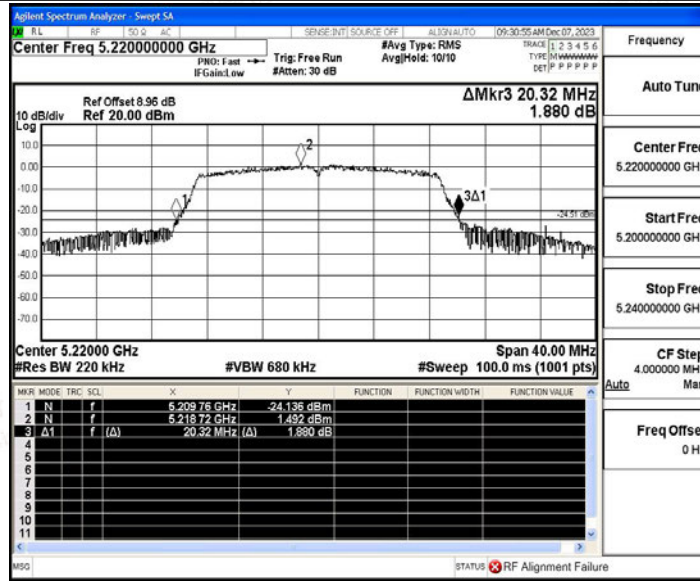


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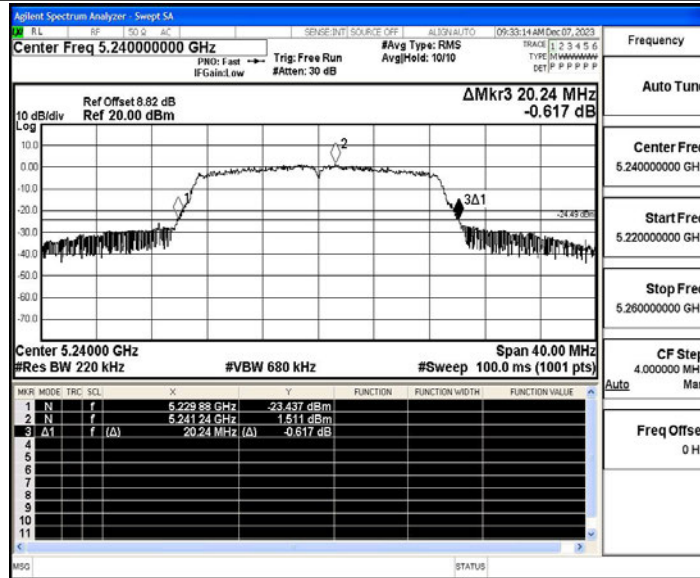


11N20SISO_Ant1_5220



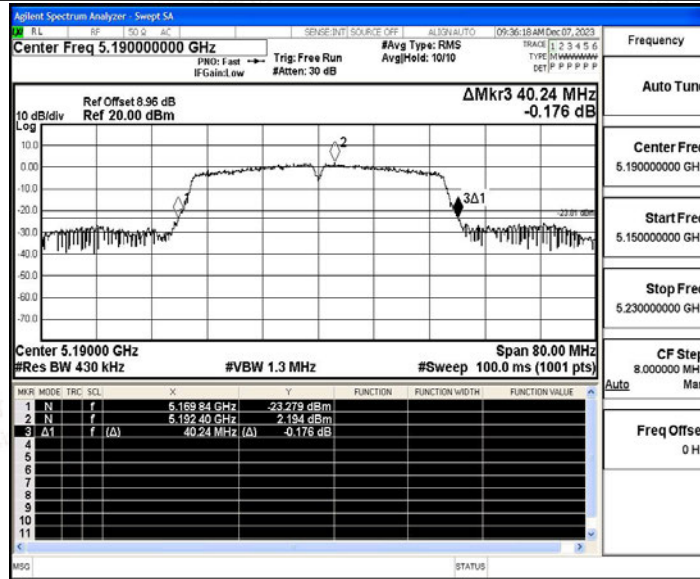


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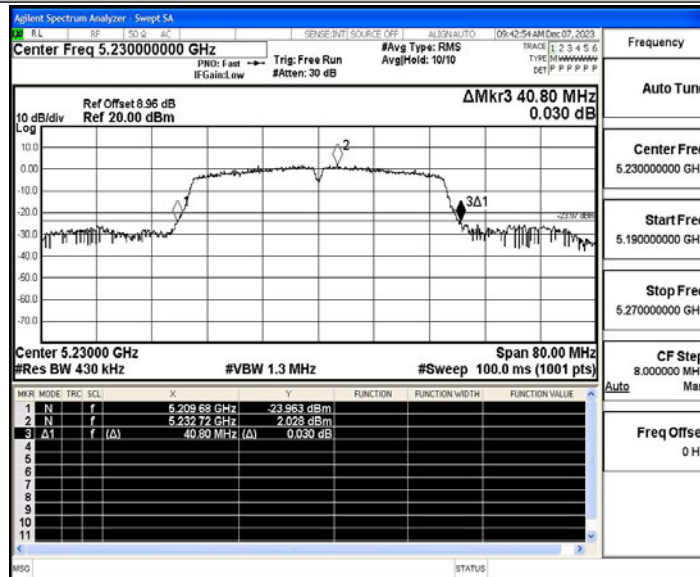


11N40SISO_Ant1_5190



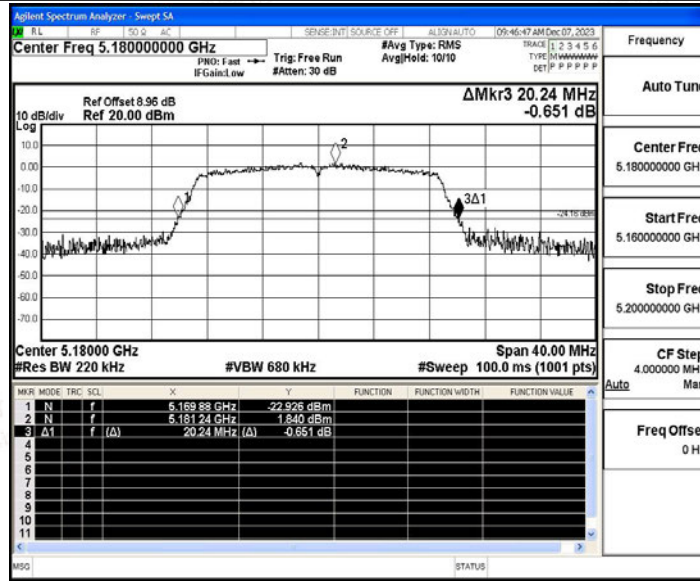


11N40SISO_Ant1_5230

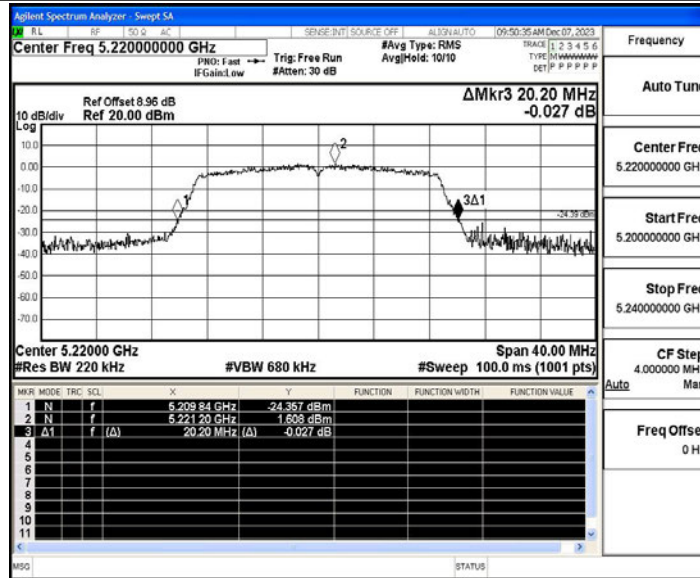


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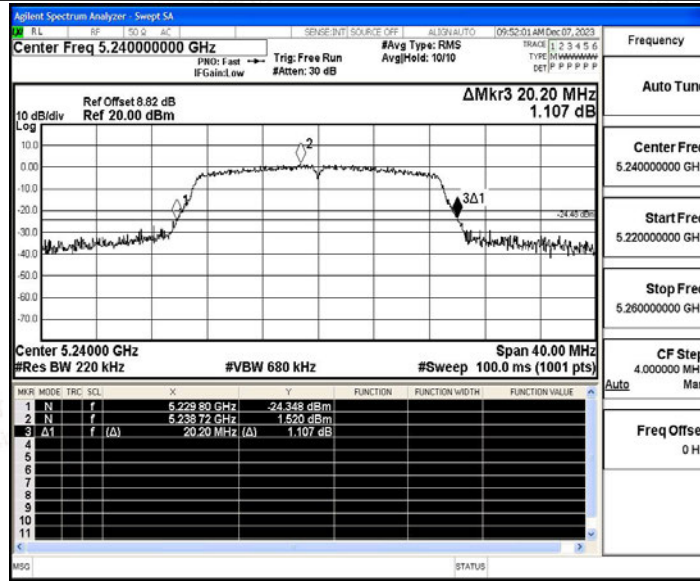


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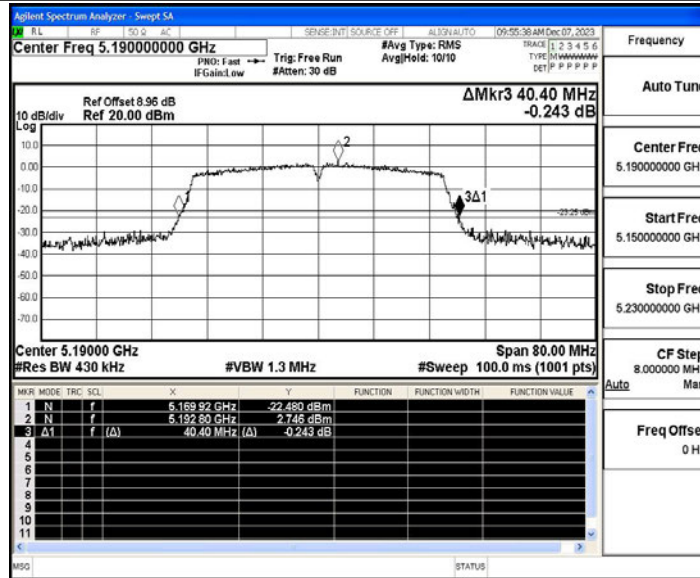


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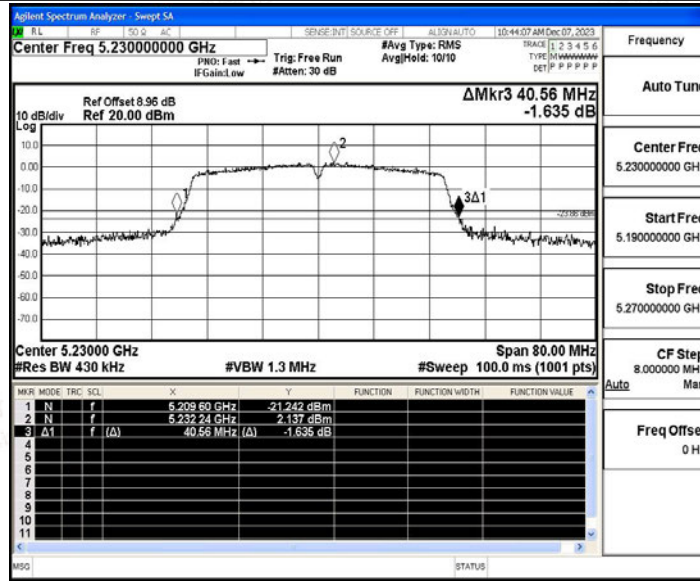


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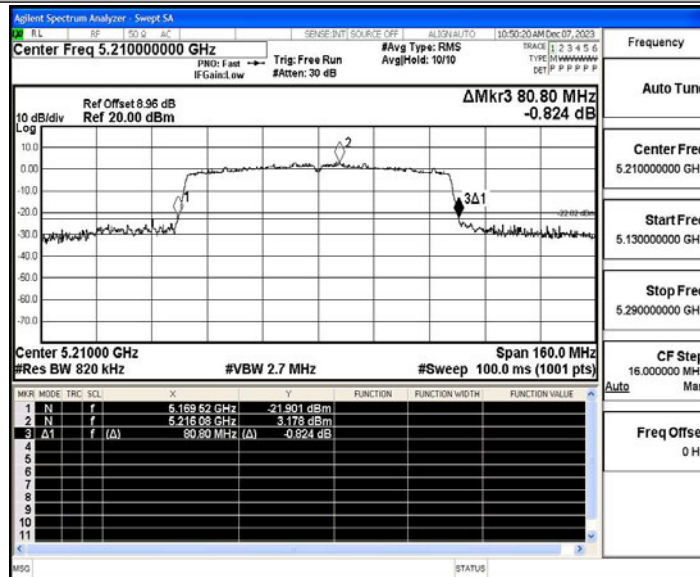


11AC40SISO_Ant1_5230





11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.61	96.53	0.15	11.76	≤24	PASS
		5220	11.76	97.22	0.12	11.88	≤24	PASS
		5240	11.53	97.20	0.12	11.65	≤24	PASS
11N20SISO	Ant1	5180	11.61	97.01	0.13	11.74	≤24	PASS
		5220	10.96	97.01	0.13	11.09	≤24	PASS
		5240	10.78	97.01	0.13	10.91	≤24	PASS
11N40SISO	Ant1	5190	11.04	92.75	0.33	11.37	≤24	PASS
		5230	11.07	94.20	0.26	11.33	≤24	PASS
11AC20SISO	Ant1	5180	11.15	96.32	0.16	11.31	≤24	PASS
		5220	10.94	96.32	0.16	11.10	≤24	PASS
		5240	11.08	97.06	0.13	11.21	≤24	PASS
11AC40SISO	Ant1	5190	11.03	92.86	0.32	11.35	≤24	PASS
		5230	11.35	92.86	0.32	11.67	≤24	PASS
11AC80SISO	Ant1	5210	11.11	86.49	0.63	11.74	≤24	PASS

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





D.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.32	≤11.00	PASS
		5220	1.47	≤11.00	PASS
		5240	1.15	≤11.00	PASS
11N20SISO	Ant1	5180	1.17	≤11.00	PASS
		5220	0.52	≤11.00	PASS
		5240	0.23	≤11.00	PASS
11N40SISO	Ant1	5190	-2.11	≤11.00	PASS
		5230	-2.23	≤11.00	PASS
11AC20SISO	Ant1	5180	0.54	≤11.00	PASS
		5220	0.48	≤11.00	PASS
		5240	0.5	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.11	≤11.00	PASS
		5230	-1.75	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.92	≤11.00	PASS

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

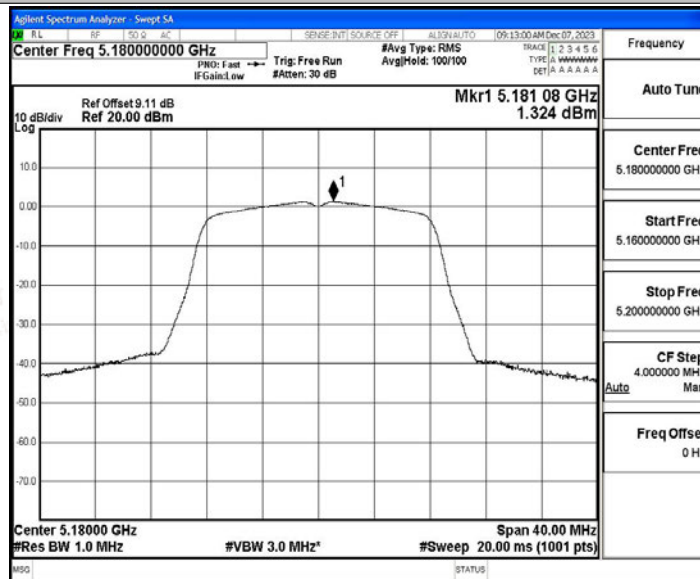
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



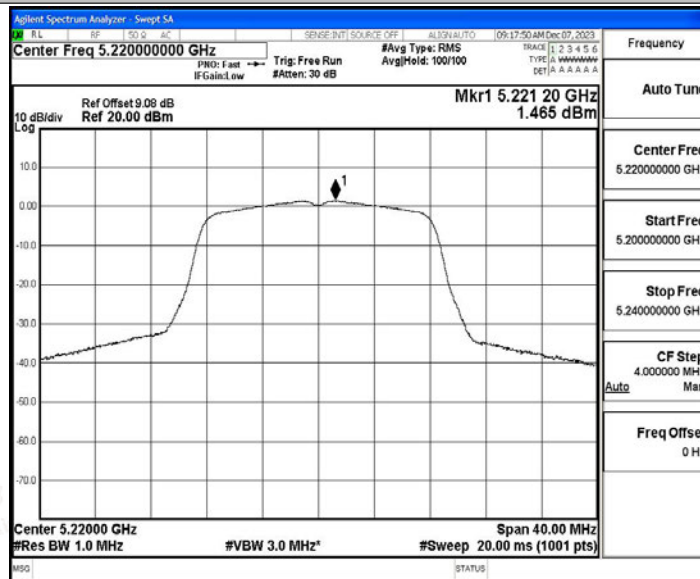


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

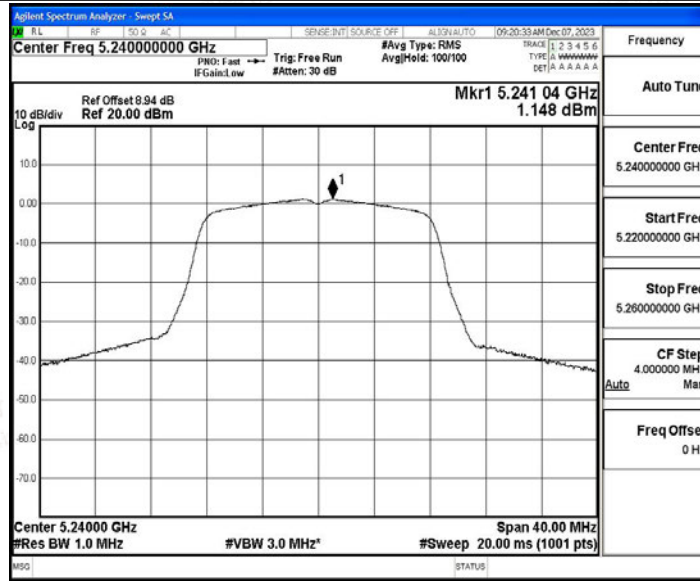


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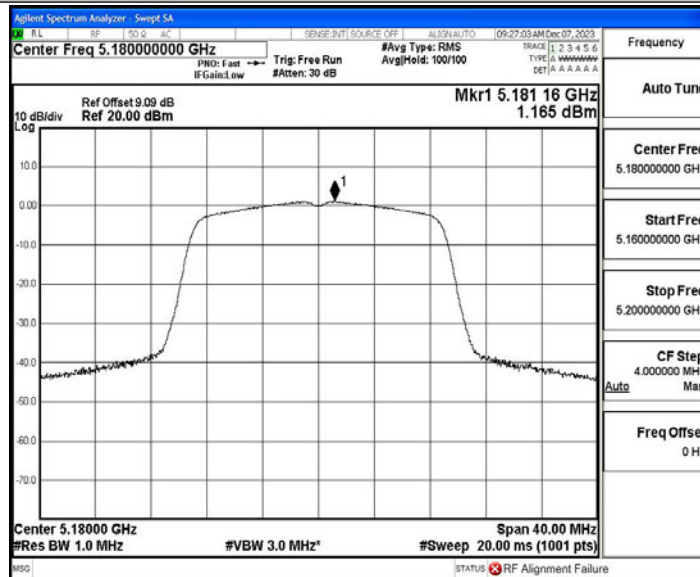
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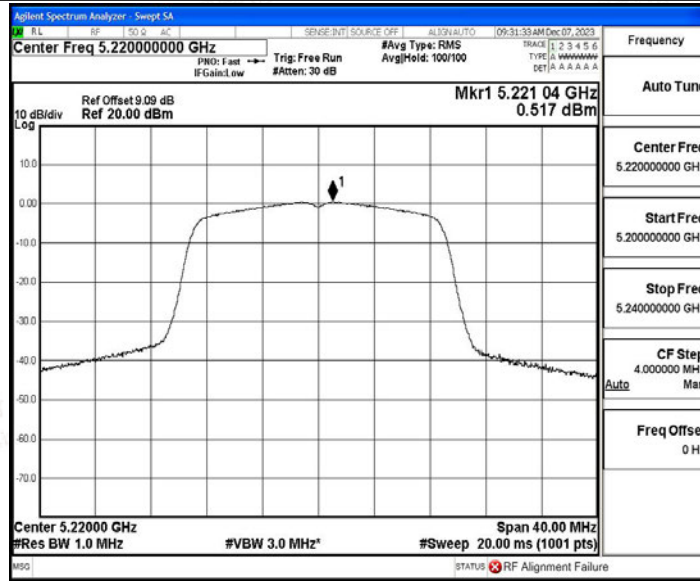


11N20SISO_Ant1_5180

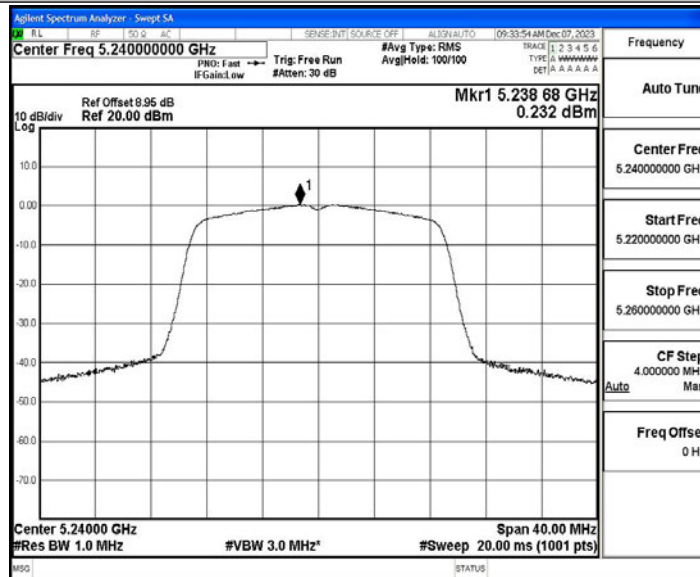


11N20SISO_Ant1_5220



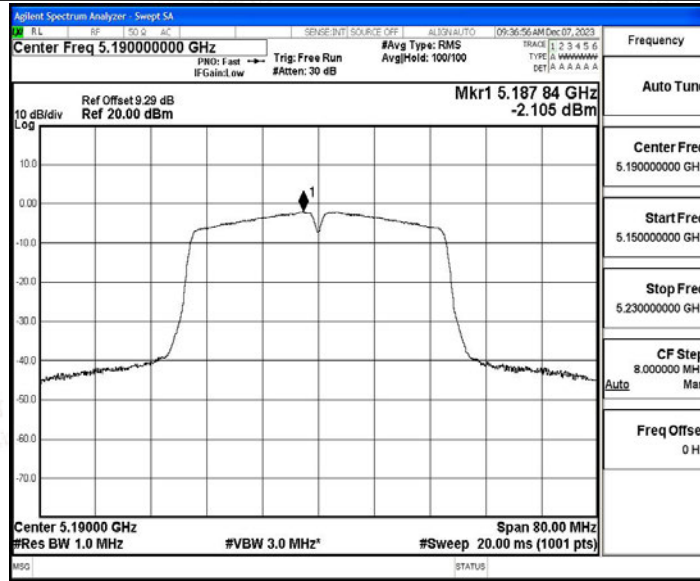


11N20SISO_Ant1_5240

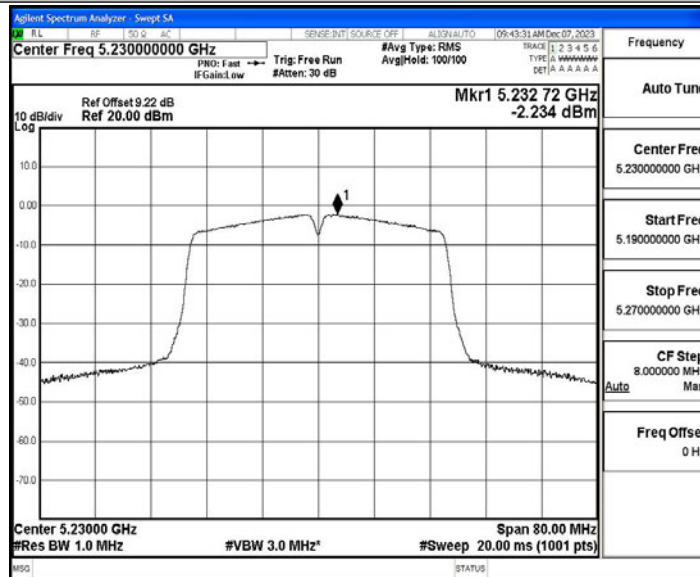


11N40SISO_Ant1_5190



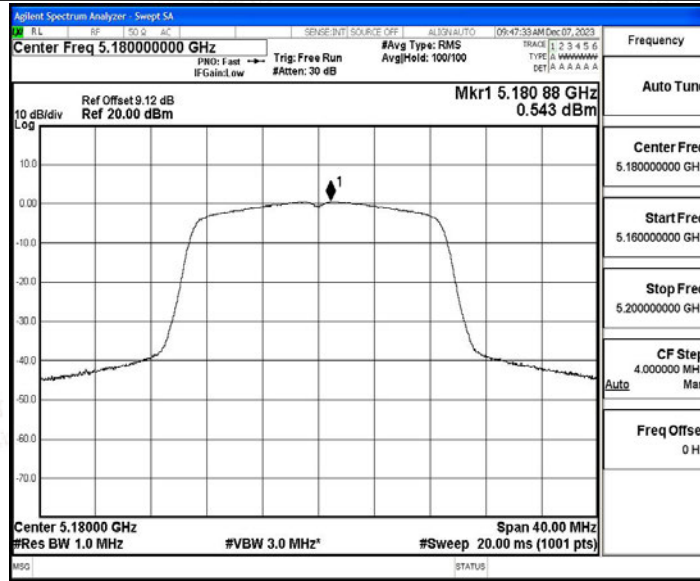


11N40SISO_Ant1_5230

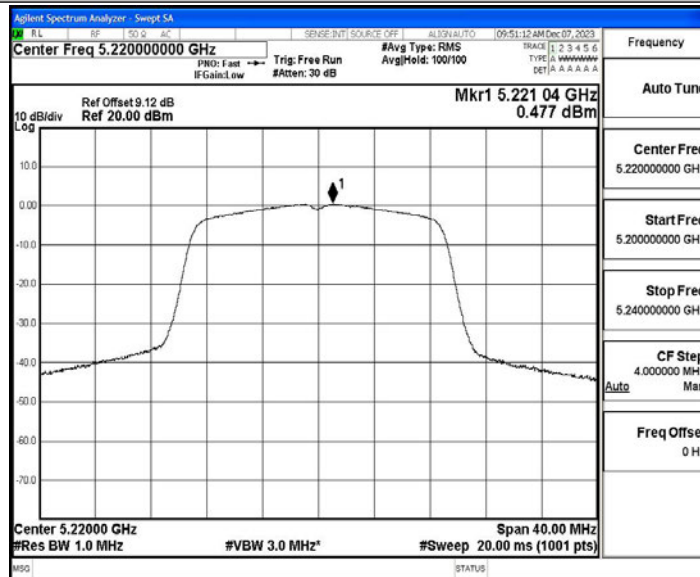


11AC20SISO_Ant1_5180



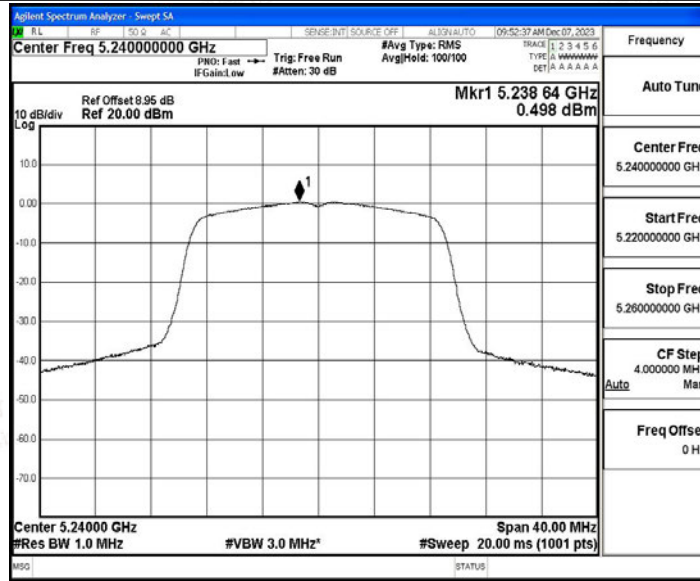


11AC20SISO_Ant1_5220

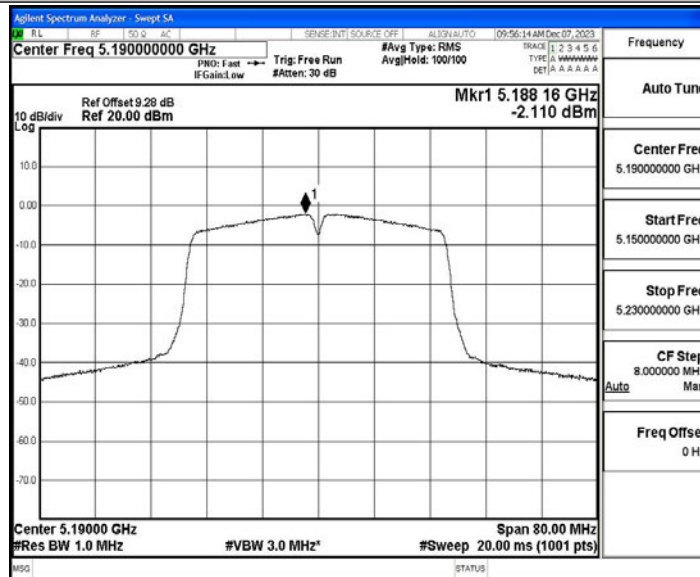


11AC20SISO_Ant1_5240



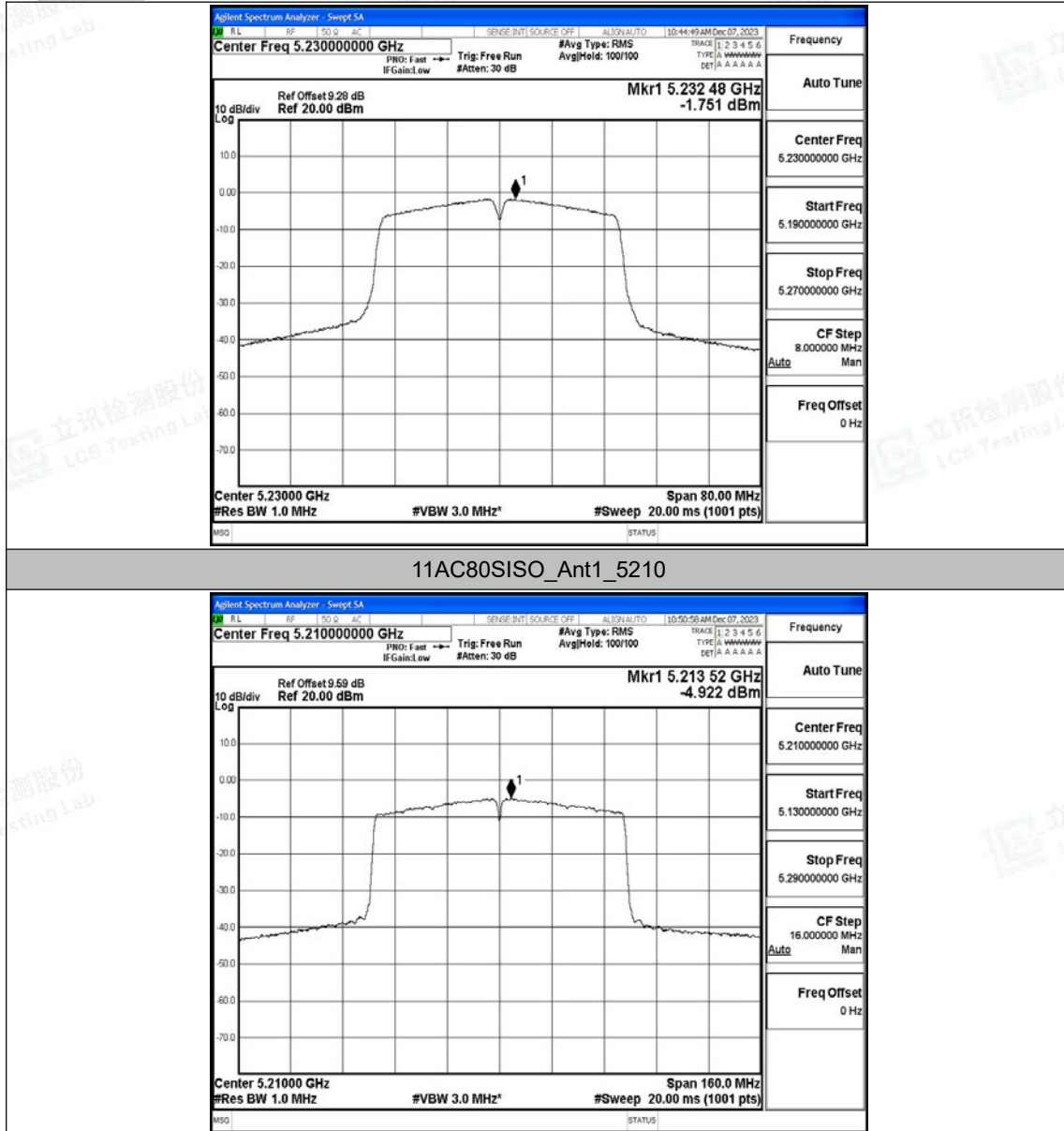


11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230







D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-57.2	≤-41.20	38.00	≤54	PASS
				AV	5148.900	-44.43	≤-41.20	50.77	≤54	PASS
				AV	5150.000	-43.39	≤-41.20	51.81	≤54	PASS
				Peak	4500.000	-52.89	≤-21.20	42.31	≤74	PASS
				Peak	5139.100	-33.26	≤-21.20	61.94	≤74	PASS
				Peak	5150.000	-31.19	≤-21.20	64.01	≤74	PASS
		High	5240	AV	5350.000	-54.05	≤-41.20	41.15	≤54	PASS
				AV	5352.240	-53.86	≤-41.20	41.34	≤54	PASS
				AV	5460.000	-55.73	≤-41.20	39.47	≤54	PASS
				Peak	5350.000	-48.99	≤-21.20	46.21	≤74	PASS
				Peak	5352.960	-45.42	≤-21.20	49.78	≤74	PASS
				Peak	5460.000	-51.12	≤-21.20	44.08	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-57.23	≤-41.20	37.97	≤54	PASS
				AV	5149.600	-45.28	≤-41.20	49.92	≤54	PASS
				AV	5150.000	-44.55	≤-41.20	50.65	≤54	PASS
				Peak	4500.000	-51.84	≤-21.20	43.36	≤74	PASS
				Peak	5149.600	-30.06	≤-21.20	65.14	≤74	PASS
				Peak	5150.000	-30.26	≤-21.20	64.94	≤74	PASS
		High	5240	AV	5350.000	-54.12	≤-41.20	41.08	≤54	PASS
				AV	5352.240	-53.89	≤-41.20	41.31	≤54	PASS
				AV	5460.000	-55.67	≤-41.20	39.53	≤54	PASS
				Peak	5350.000	-49.87	≤-21.20	45.33	≤74	PASS
				Peak	5395.440	-44.72	≤-21.20	50.48	≤74	PASS
				Peak	5460.000	-50.36	≤-21.20	44.84	≤74	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-57.17	≤-41.20	38.03	≤54	PASS
				AV	5149.600	-43.27	≤-41.20	51.93	≤54	PASS
				AV	5150.000	-42.28	≤-41.20	52.92	≤54	PASS
				Peak	4500.000	-51.79	≤-21.20	43.41	≤74	PASS
				Peak	5138.400	-29.95	≤-21.20	65.25	≤74	PASS
				Peak	5150.000	-38.21	≤-21.20	56.99	≤74	PASS
		High	5230	AV	5350.000	-53.77	≤-41.20	41.43	≤54	PASS
				AV	5350.280	-53.54	≤-41.20	41.66	≤54	PASS
				AV	5460.000	-55.3	≤-41.20	39.90	≤54	PASS
				Peak	5350.000	-49.54	≤-21.20	45.66	≤74	PASS





11AC20SI SO	Ant1	Low	5180	Peak	5411.640	-45.63	≤-21.20	49.57	≤74	PASS
				Peak	5460.000	-49.79	≤-21.20	45.41	≤74	PASS
				AV	4500.000	-57.47	≤-41.20	37.73	≤54	PASS
				AV	5149.600	-45.87	≤-41.20	49.33	≤54	PASS
				AV	5150.000	-45.96	≤-41.20	49.24	≤54	PASS
				Peak	4500.000	-51.78	≤-21.20	43.42	≤74	PASS
		High	5240	Peak	5143.300	-31.48	≤-21.20	63.72	≤74	PASS
				Peak	5150.000	-41.59	≤-21.20	53.61	≤74	PASS
				AV	5350.000	-54.08	≤-41.20	41.12	≤54	PASS
				AV	5352.240	-53.95	≤-41.20	41.25	≤54	PASS
				AV	5460.000	-55.74	≤-41.20	39.46	≤54	PASS
				Peak	5350.000	-48.92	≤-21.20	46.28	≤74	PASS
11AC40SI SO	Ant1	Low	5190	Peak	5355.120	-45.54	≤-21.20	49.66	≤74	PASS
				Peak	5460.000	-50.41	≤-21.20	44.79	≤74	PASS
				AV	4500.000	-57.3	≤-41.20	37.90	≤54	PASS
				AV	5149.600	-41.51	≤-41.20	53.69	≤54	PASS
				AV	5150.000	-41.28	≤-41.20	53.92	≤54	PASS
				Peak	4500.000	-48.81	≤-21.20	46.39	≤74	PASS
		High	5230	Peak	5146.100	-27.78	≤-21.20	67.42	≤74	PASS
				Peak	5150.000	-33.65	≤-21.20	61.55	≤74	PASS
				AV	5350.000	-53.51	≤-41.20	41.69	≤54	PASS
				AV	5350.280	-53.47	≤-41.20	41.73	≤54	PASS
				AV	5460.000	-55.25	≤-41.20	39.95	≤54	PASS
				Peak	5350.000	-46.04	≤-21.20	49.16	≤74	PASS
11AC80SI SO	Ant1	Low	5210	Peak	5392.400	-44.58	≤-21.20	50.62	≤74	PASS
				Peak	5460.000	-49.58	≤-21.20	45.62	≤74	PASS
				AV	4500.000	-56.68	≤-41.20	38.52	≤54	PASS
				AV	5149.500	-41.43	≤-41.20	53.77	≤54	PASS
				AV	5150.000	-42.1	≤-41.20	53.10	≤54	PASS
				Peak	4500.000	-50.16	≤-21.20	45.04	≤74	PASS
		High	5210	Peak	5139.750	-30.19	≤-21.20	65.01	≤74	PASS
				Peak	5150.000	-37.29	≤-21.20	57.91	≤74	PASS
				AV	5350.000	-51.28	≤-41.20	43.92	≤54	PASS
				AV	5350.240	-50.56	≤-41.20	44.64	≤54	PASS
				AV	5460.000	-55.21	≤-41.20	39.99	≤54	PASS
				Peak	5350.000	-46.2	≤-21.20	49.00	≤74	PASS
				Peak	5362.560	-40.8	≤-21.20	54.40	≤74	PASS
				Peak	5460.000	-49.57	≤-21.20	45.63	≤74	PASS

Note:



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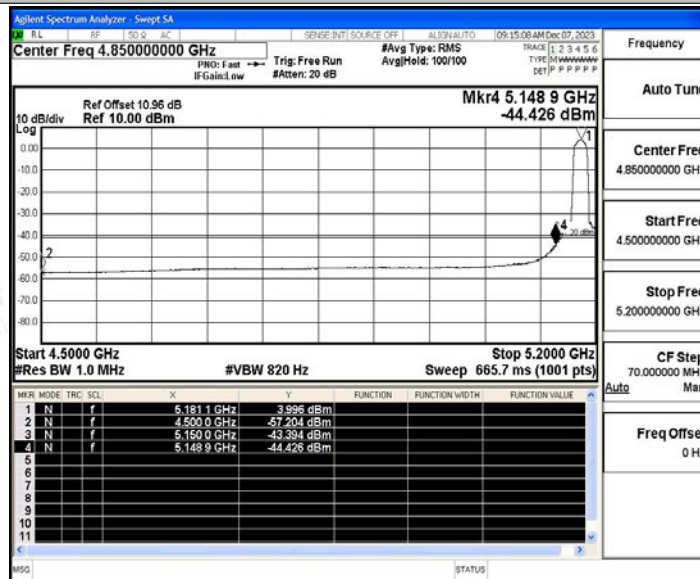
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



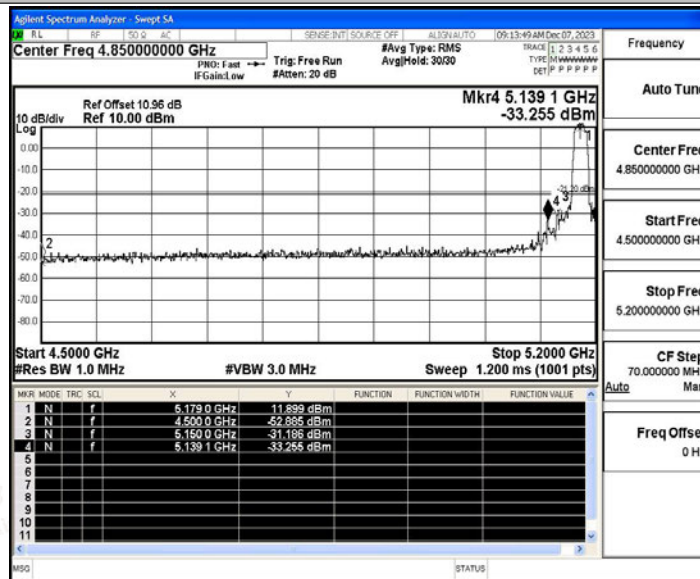


Test Graphs

11A_Ant1_Low_5180_AV



11A_Ant1_Low_5180_Peak



11A_Ant1_High_5240_AV

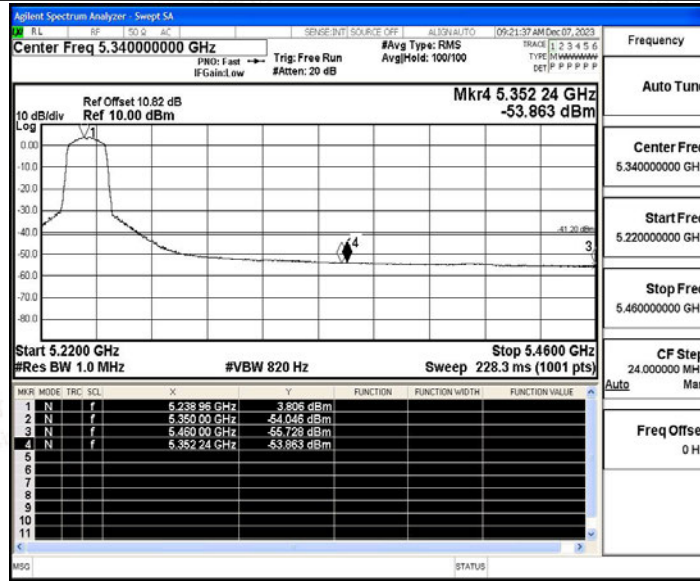


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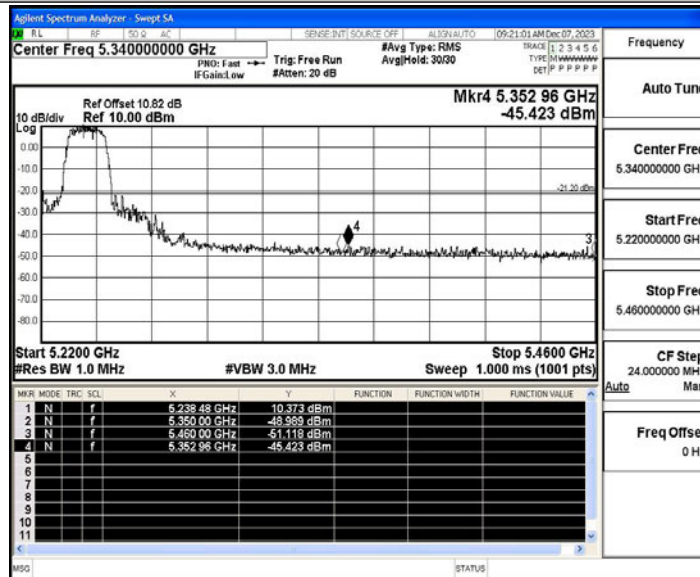
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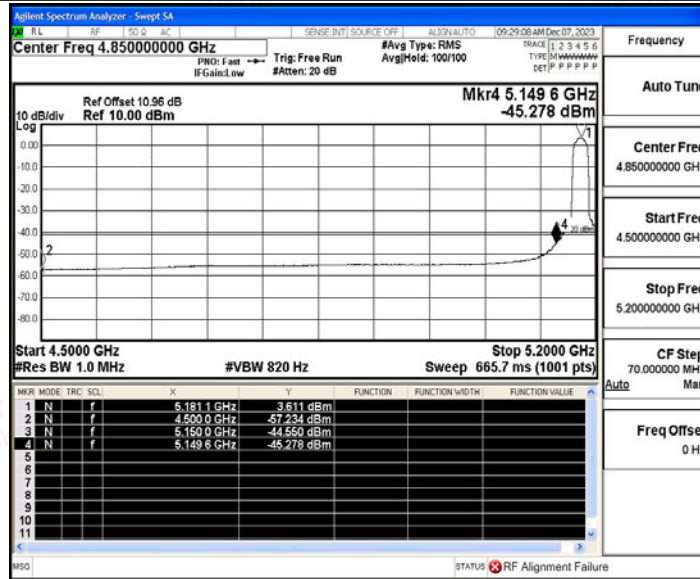


11A_Ant1_High_5240_Peak

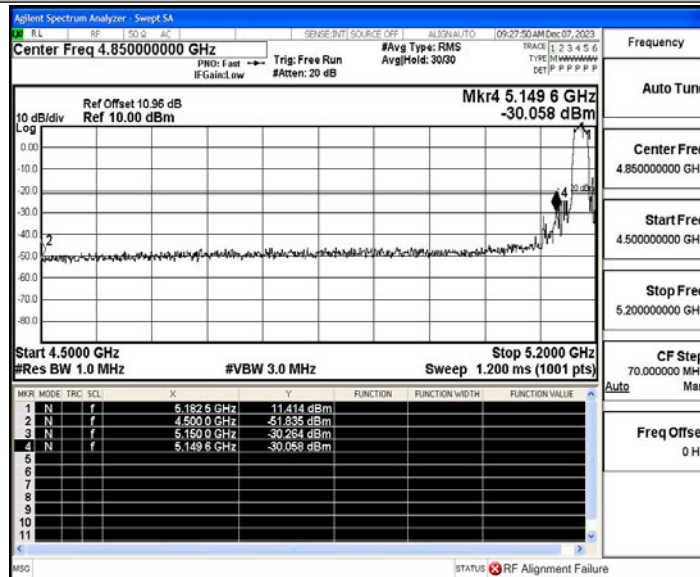


11N20SISO_Ant1_Low_5180_AV



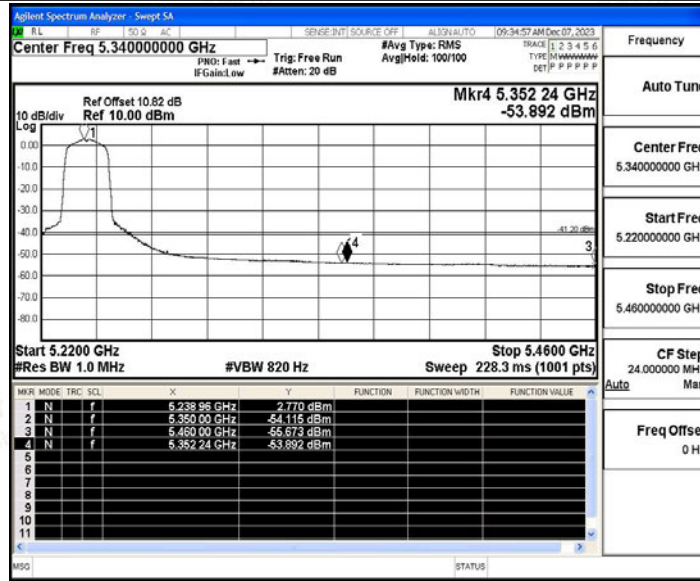


11N20SISO_Ant1_Low_5180_Peak

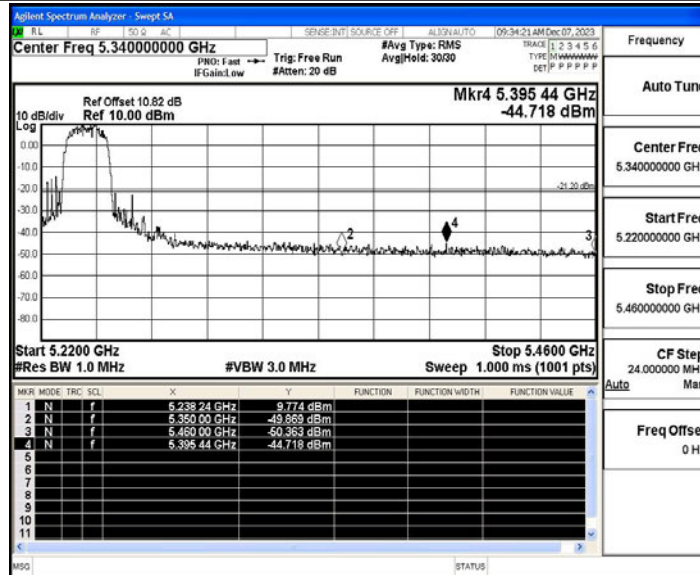


11N20SISO_Ant1_High_5240_AV



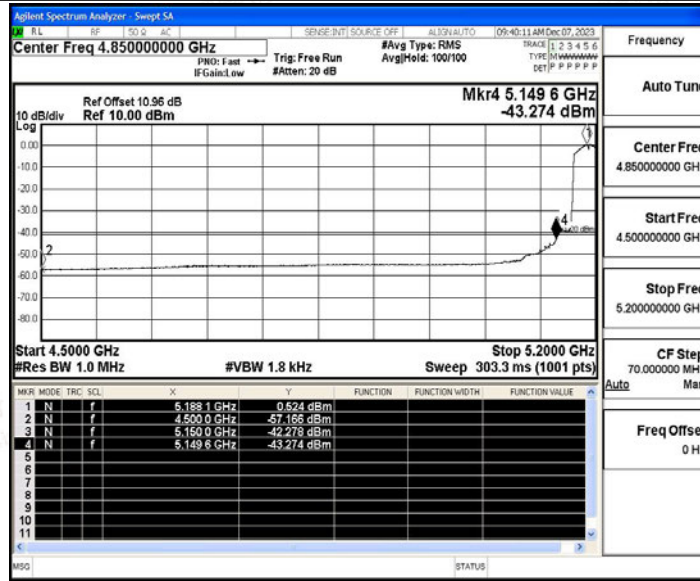


11N20SISO_Ant1_High_5240_Peak

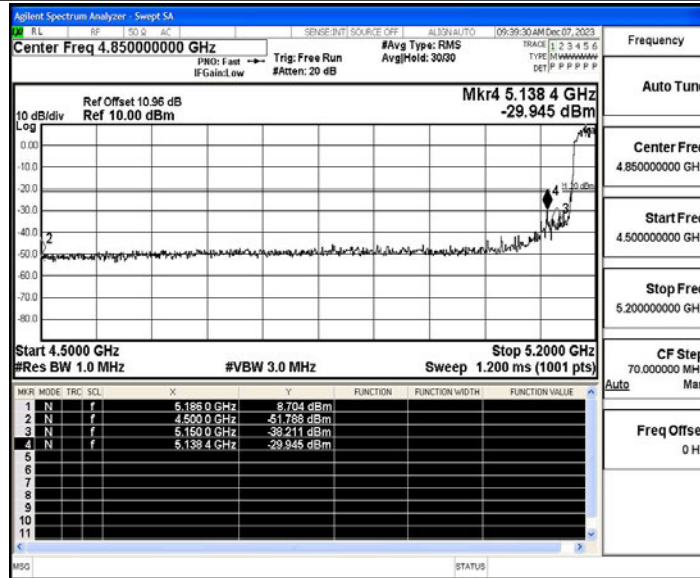


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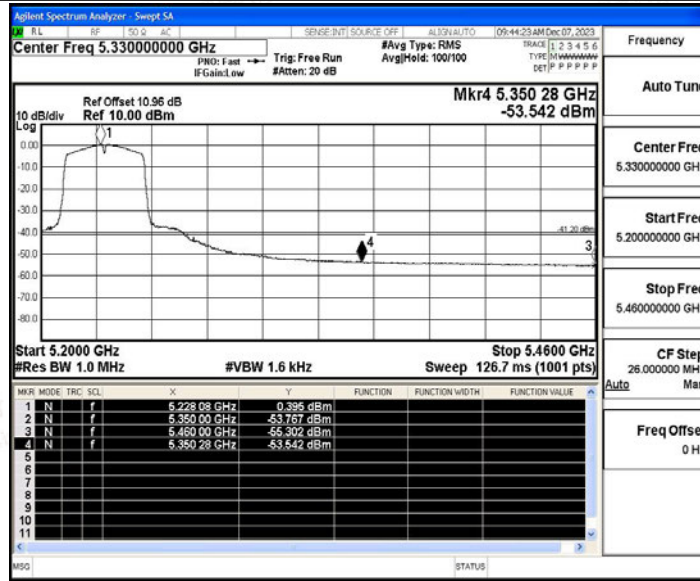


11N40SISO_Ant1_Low_5190_Peak

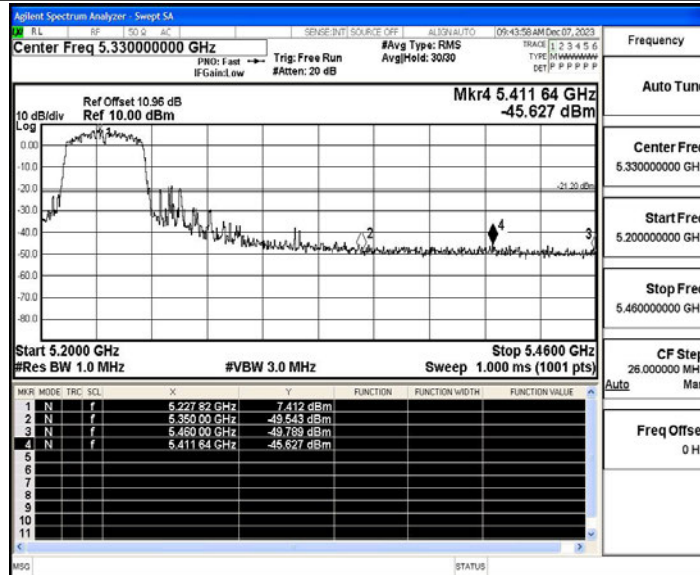


11N40SISO_Ant1_High_5230_AV



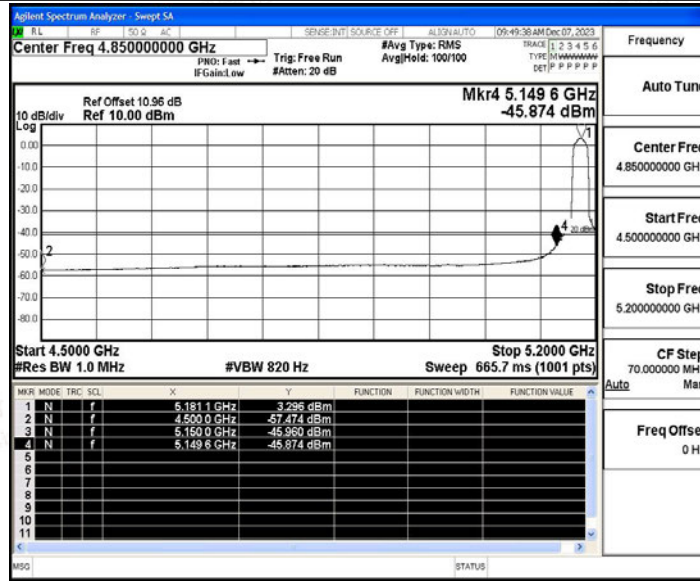


11N40SISO_Ant1_High_5230_Peak

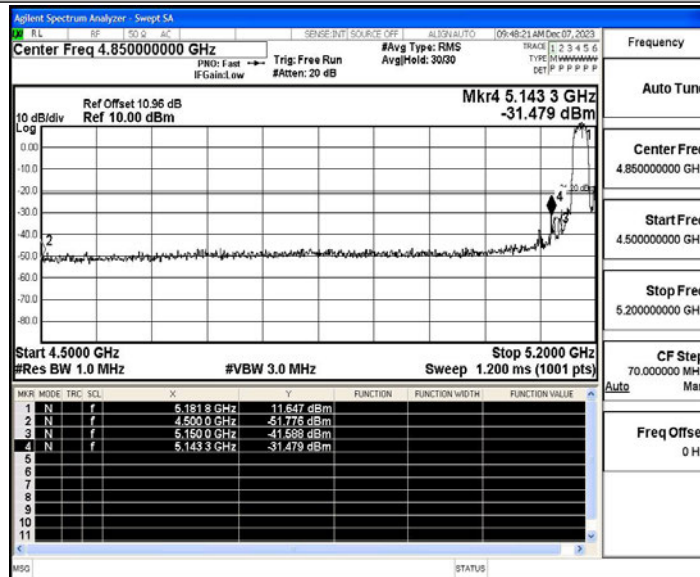


11AC20SISO_Ant1_Low_5180_AV



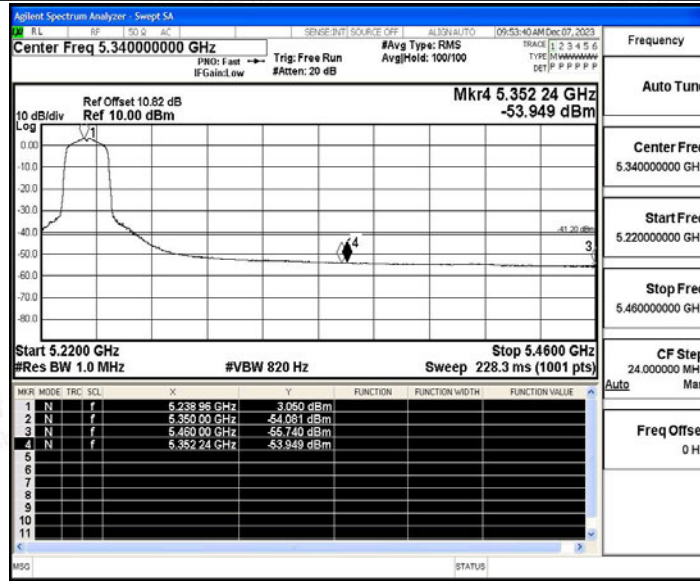


11AC20SISO_Ant1_Low_5180_Peak

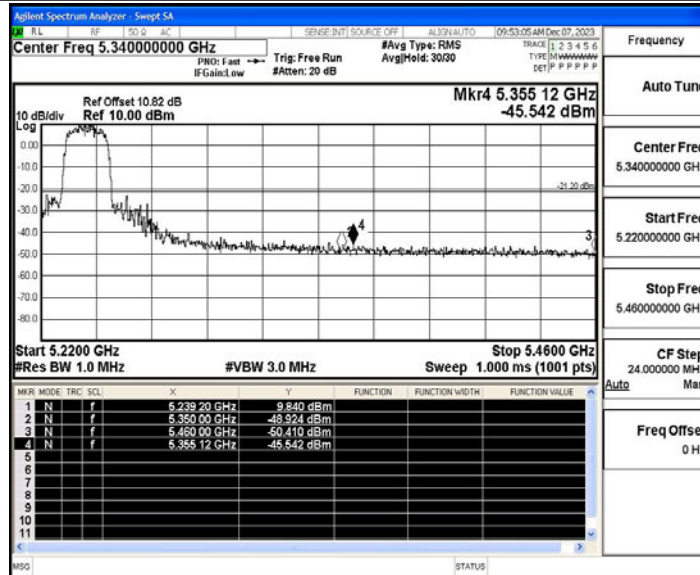


11AC20SISO_Ant1_High_5240_AV



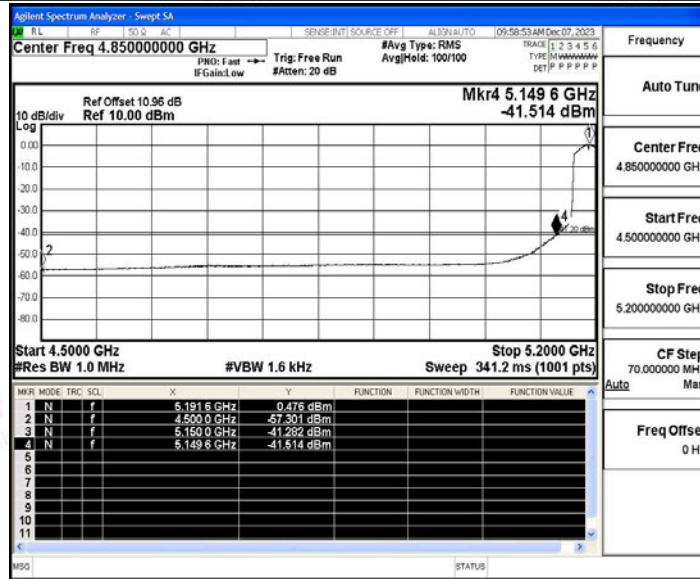


11AC20SISO_Ant1_High_5240_Peak

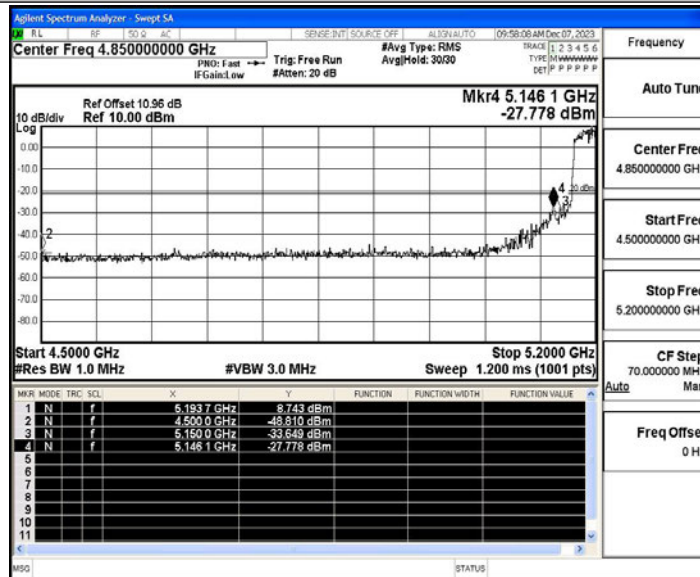


11AC40SISO_Ant1_Low_5190_AV



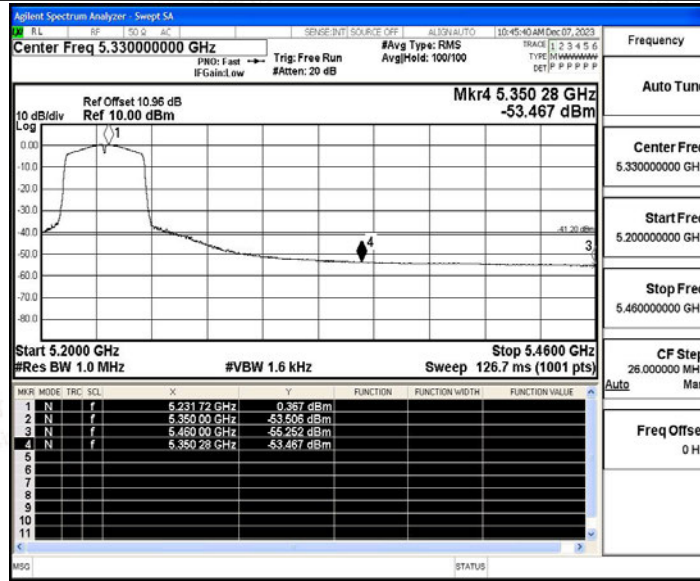


11AC40SISO_Ant1_Low_5190_Peak

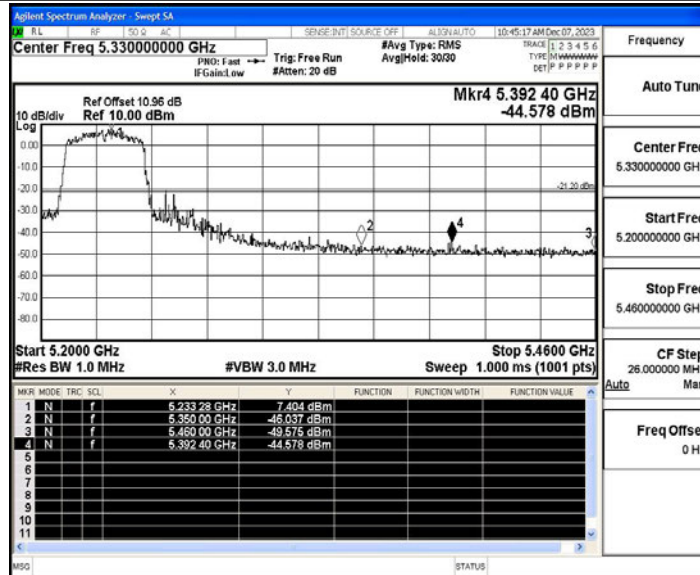


11AC40SISO_Ant1_High_5230_AV



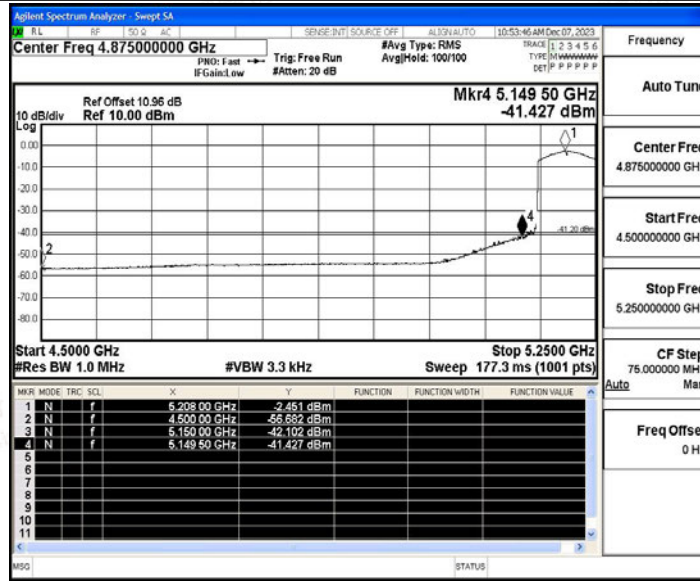


11AC40SISO_Ant1_High_5230_Peak

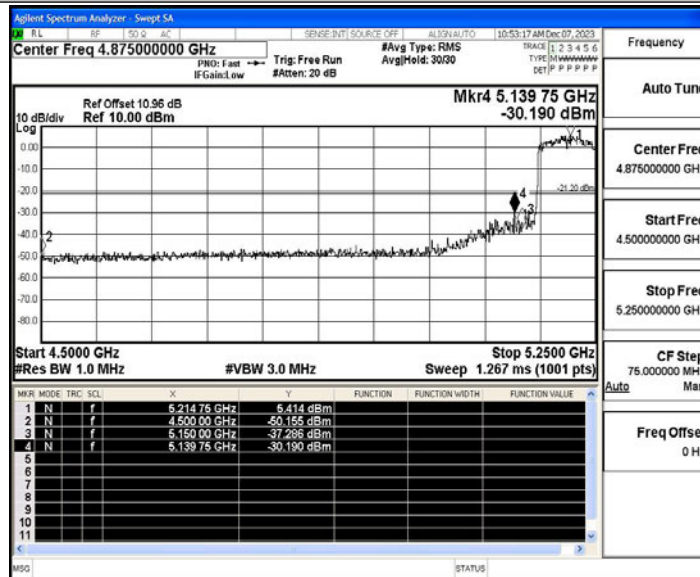


11AC80SISO_Ant1_Low_5210_AV



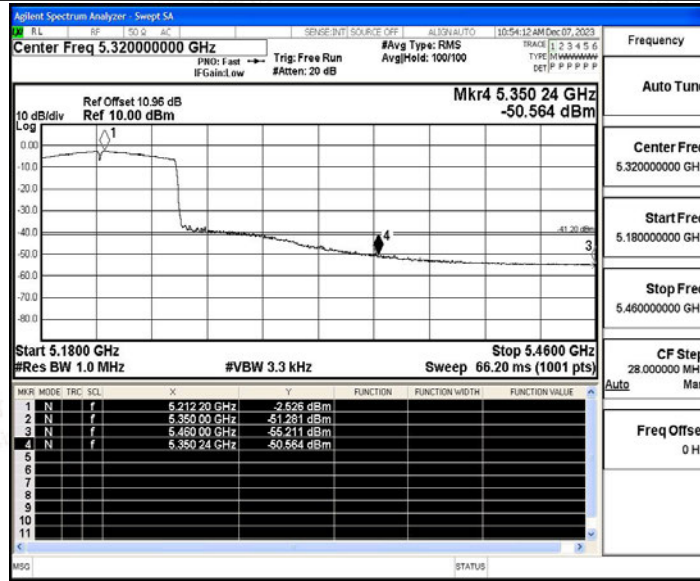


11AC80SISO_Ant1_Low_5210_Peak

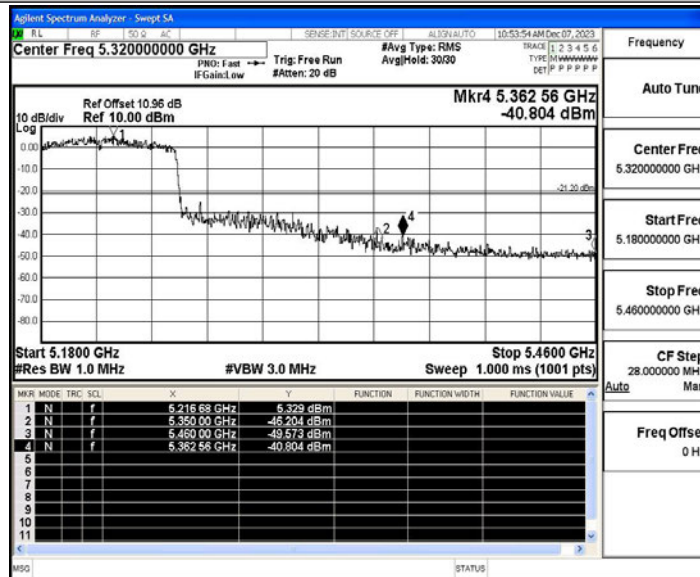


11AC80SISO_Ant1_High_5210_AV





11AC80SISO_Ant1_High_5210_Peak



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D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
		5220	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SI SO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
11AC80S ISO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	20000.00	3.861004	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.722008	20	PASS
		5220	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS



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			NV	-10	20000.00	3.831418	20	PASS
			NV	0	-20000.00	-3.831418	20	PASS
			NV	10	-20000.00	-3.831418	20	PASS
			NV	20	-20000.00	-3.831418	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.831418	20	PASS
			NV	50	20000.00	3.831418	20	PASS
		5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.816794	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
11N40SI SO	Ant1	5190	NV	-30	-40000.00	-7.707129	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	-40000.00	-7.707129	20	PASS
			NV	10	80000.00	15.414258	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
		5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-7.648184	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC80S ISO	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	80000.00	15.355086	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-80000.00	-15.355086	20	PASS



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		NV	30	-80000.00	-15.355086	20	PASS
		NV	40	0.00	0.000000	20	PASS
		NV	50	-80000.00	-15.355086	20	PASS





D.6 Duty Cycle

Test Result

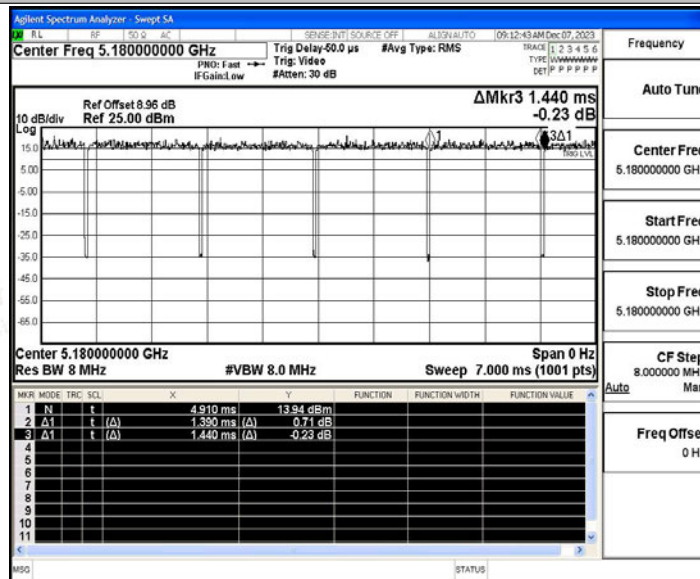
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.44	96.53
		5220	1.40	1.44	97.22
		5240	1.39	1.43	97.20
11N20SISO	Ant1	5180	1.30	1.34	97.01
		5220	1.30	1.34	97.01
		5240	1.30	1.34	97.01
11N40SISO	Ant1	5190	0.64	0.69	92.75
		5230	0.65	0.69	94.20
11AC20SISO	Ant1	5180	1.31	1.36	96.32
		5220	1.31	1.36	96.32
		5240	1.32	1.36	97.06
11AC40SISO	Ant1	5190	0.65	0.70	92.86
		5230	0.65	0.70	92.86
11AC80SISO	Ant1	5210	0.32	0.37	86.49



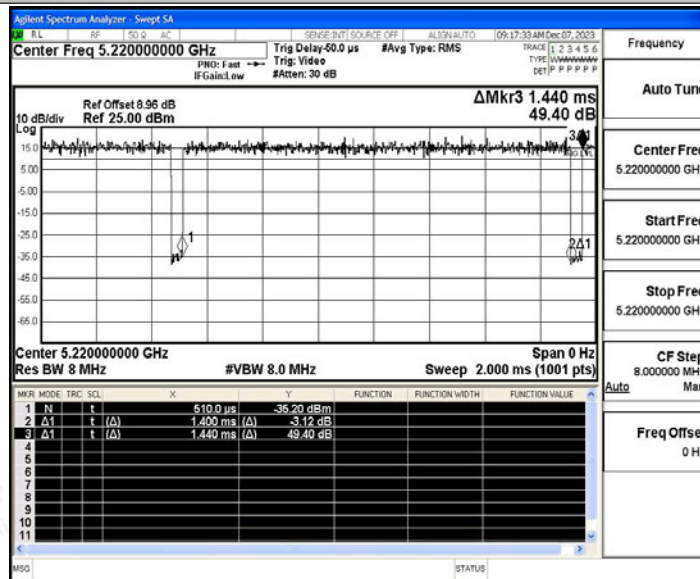


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

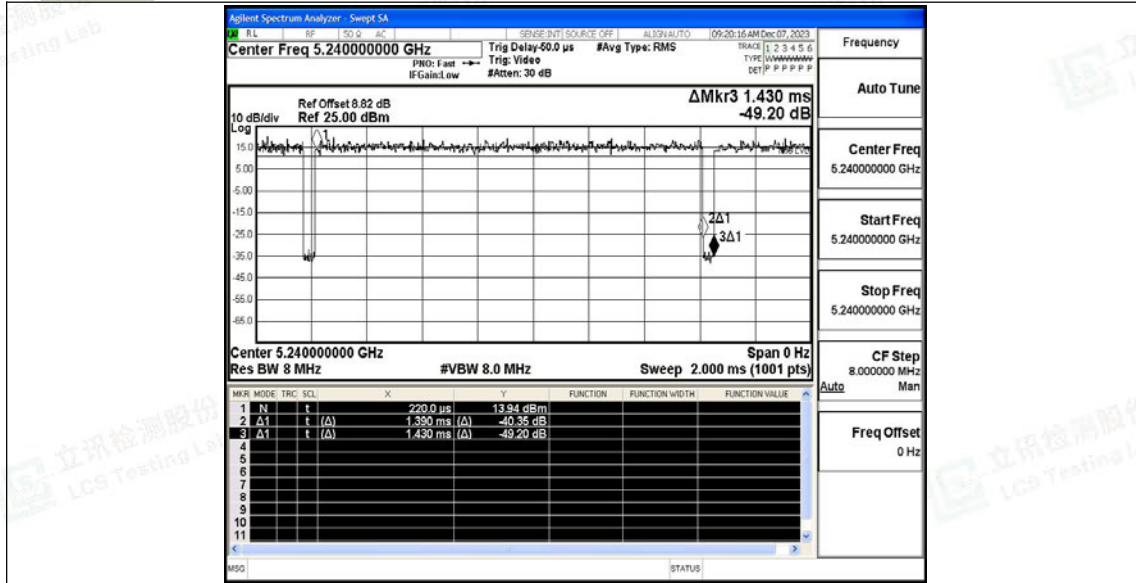


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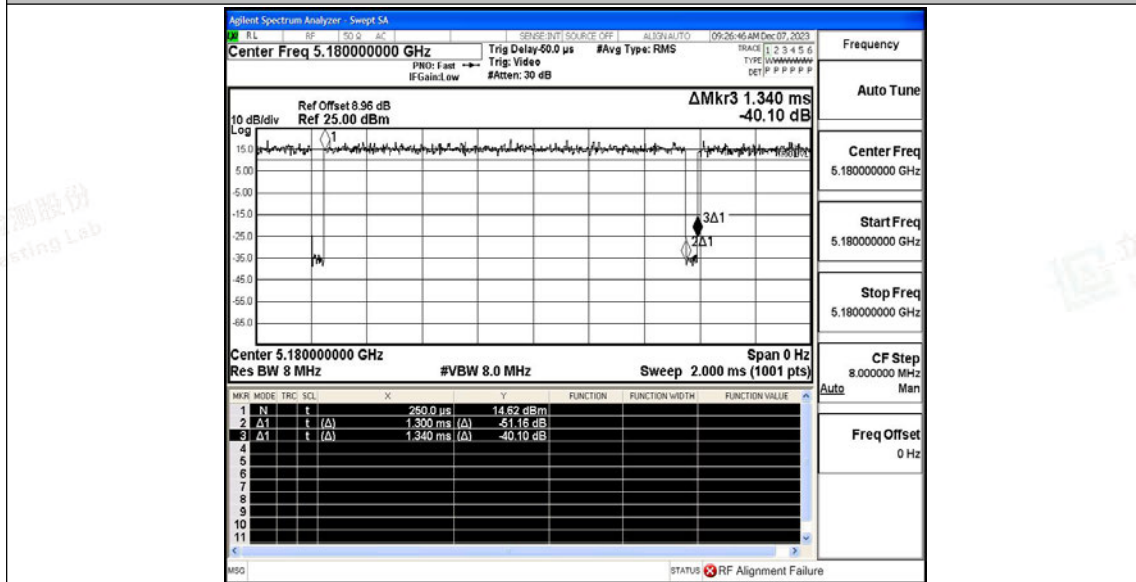
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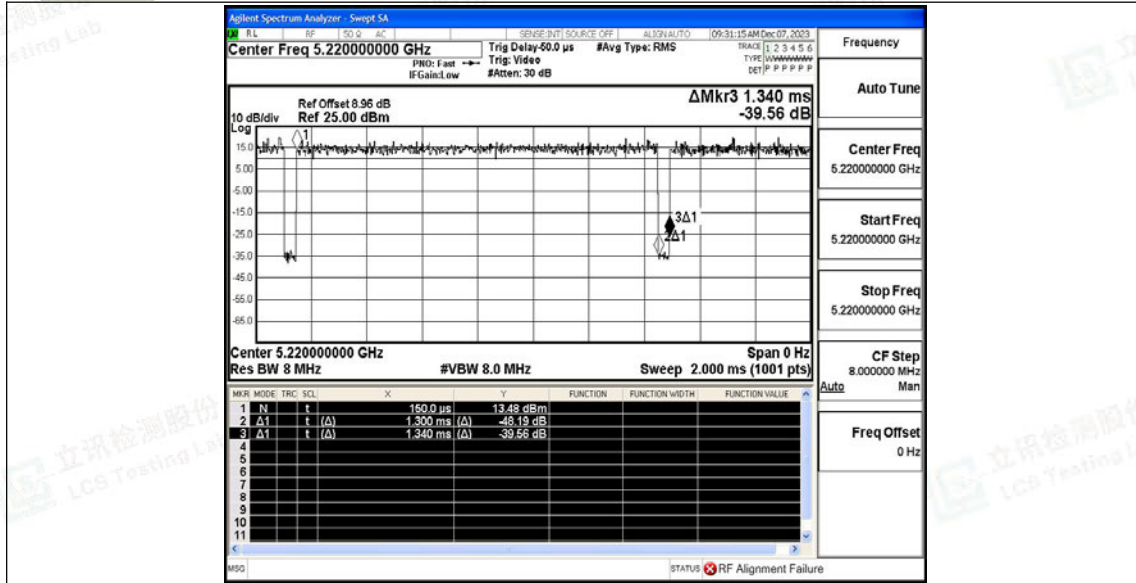


11N20SISO_Ant1_5180

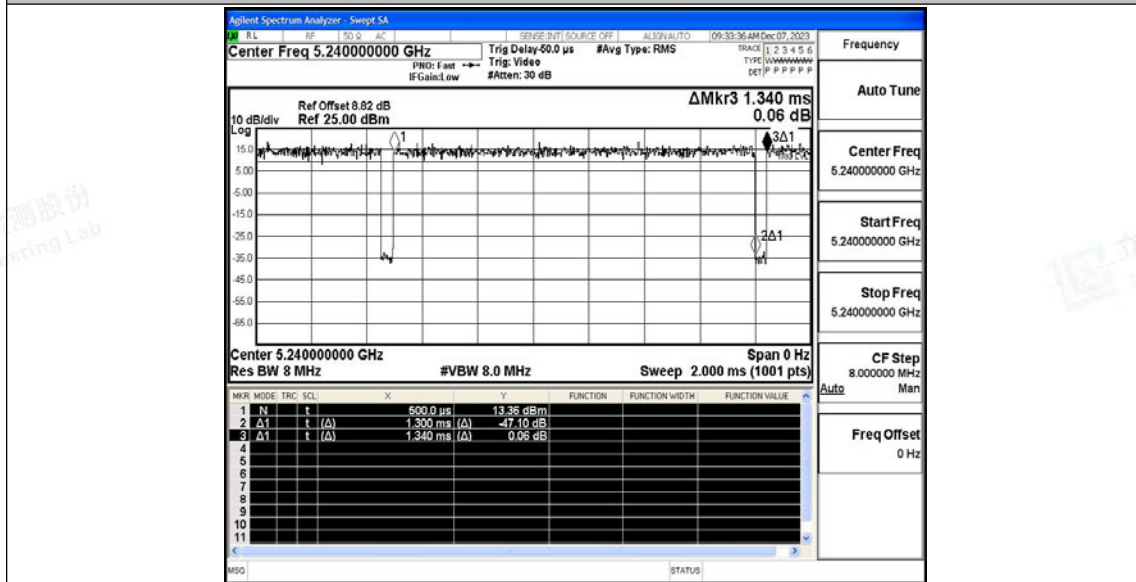


11N20SISO_Ant1_5220



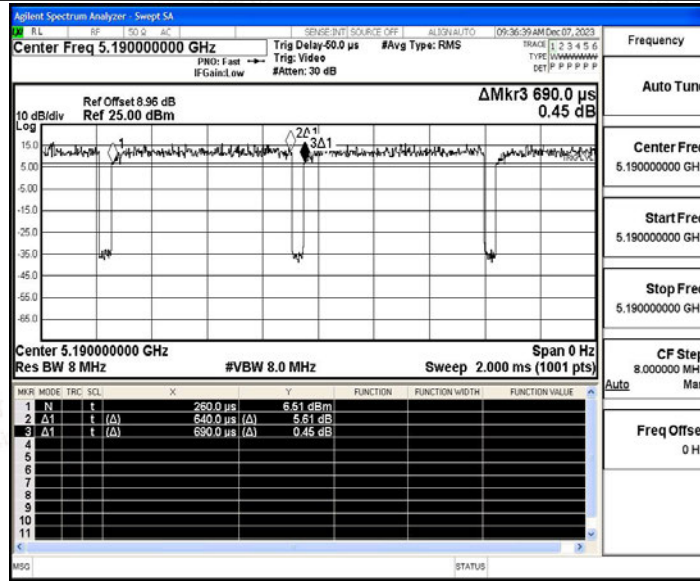


11N20SISO_Ant1_5240

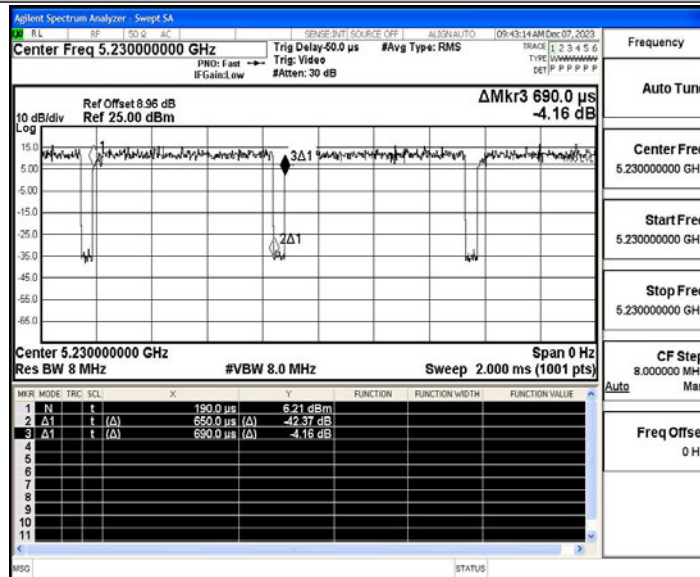


11N40SISO_Ant1_5190



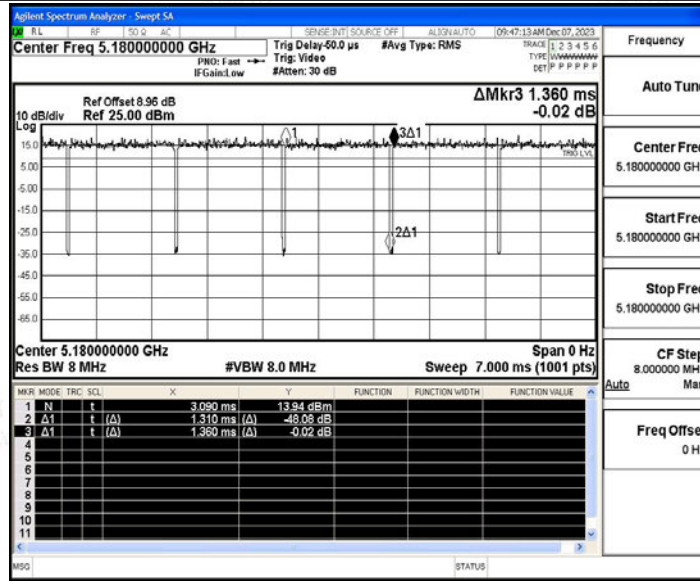


11N40SISO_Ant1_5230

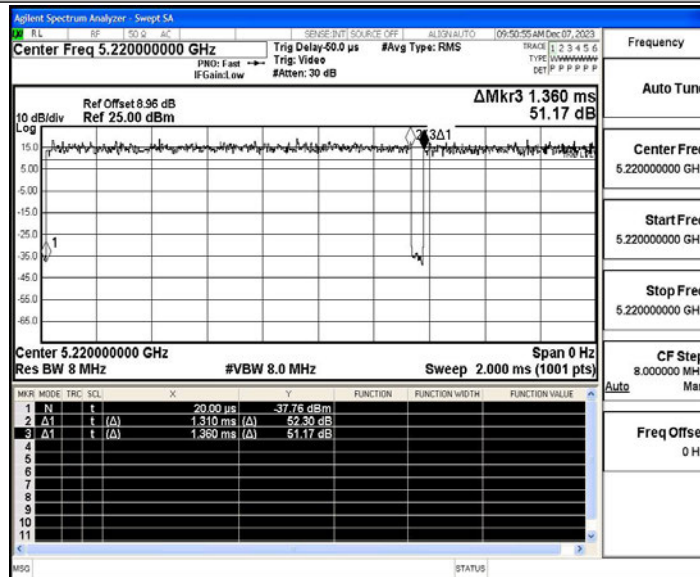


11AC20SISO_Ant1_5180



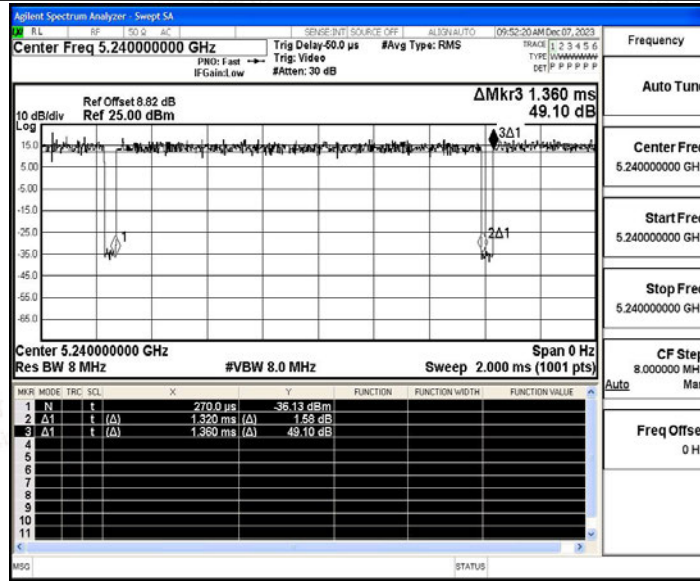


11AC20SISO_Ant1_5220

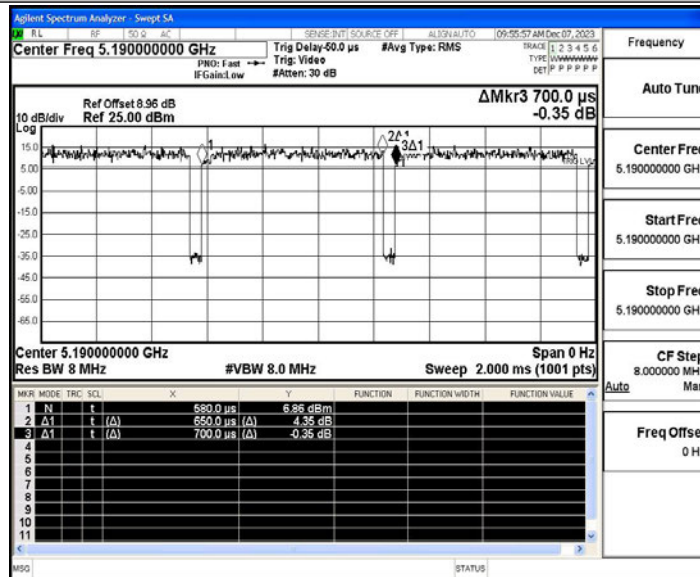


11AC20SISO_Ant1_5240



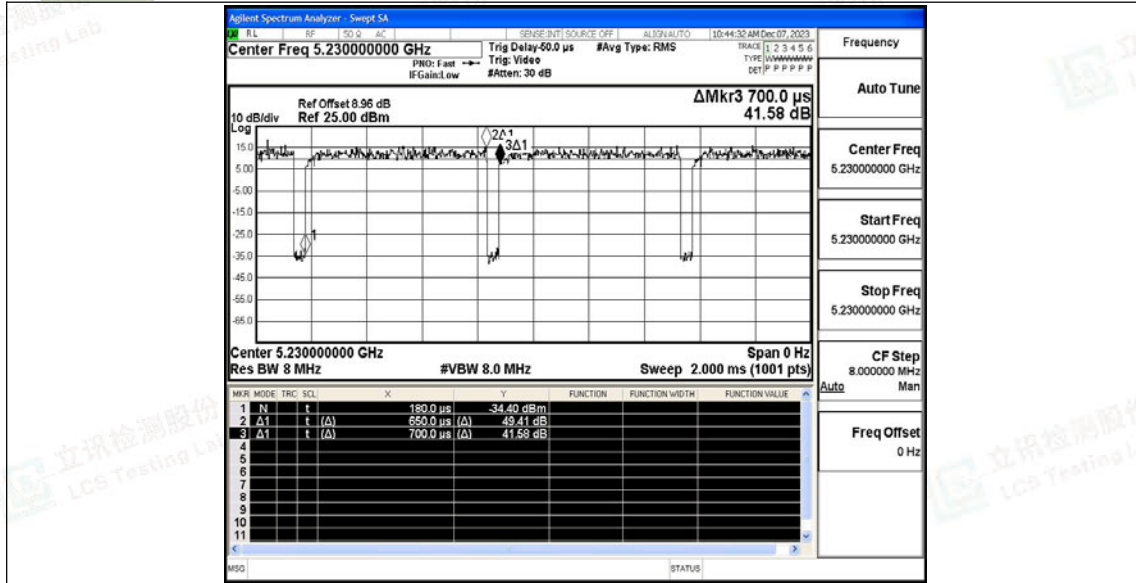


11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230





11AC80SISO_Ant1_5210

