

Case No. : GTS20221216016-1-14	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.1.7	Test Engineer: Jenny zeng

Appendix E.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5260	20.000	5250.000	5270.000	---	---
		5280	21.560	5269.560	5291.120	---	---
		5320	19.760	5310.280	5330.040	---	---
11N20SISO	Ant2	5260	22.640	5248.440	5271.080	---	---
		5280	21.280	5270.040	5291.320	---	---
		5320	24.720	5308.640	5333.360	---	---
11N40SISO	Ant2	5270	55.040	5249.200	5304.240	---	---
		5310	53.680	5289.360	5343.040	---	---
11AC20SISO	Ant2	5260	21.160	5249.160	5270.320	---	---
		5280	21.960	5270.000	5291.960	---	---
		5320	22.400	5309.880	5332.280	---	---
11AC40SISO	Ant2	5270	41.200	5249.520	5290.720	---	---
		5310	40.480	5289.840	5330.320	---	---
11AC80SISO	Ant2	5290	118.560	5243.760	5362.320	---	---

Test Graphs

11A_Ant2_5260



11A_Ant2_5280



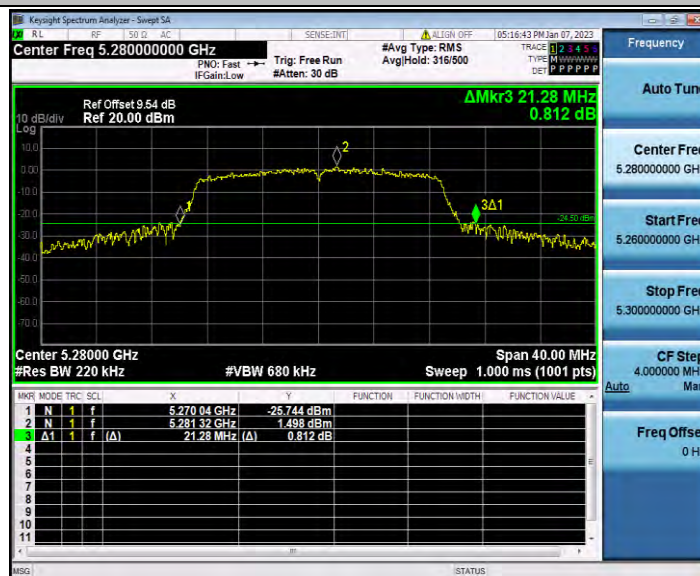
11A_Ant2_5320



11N20SISO_Ant2_5260



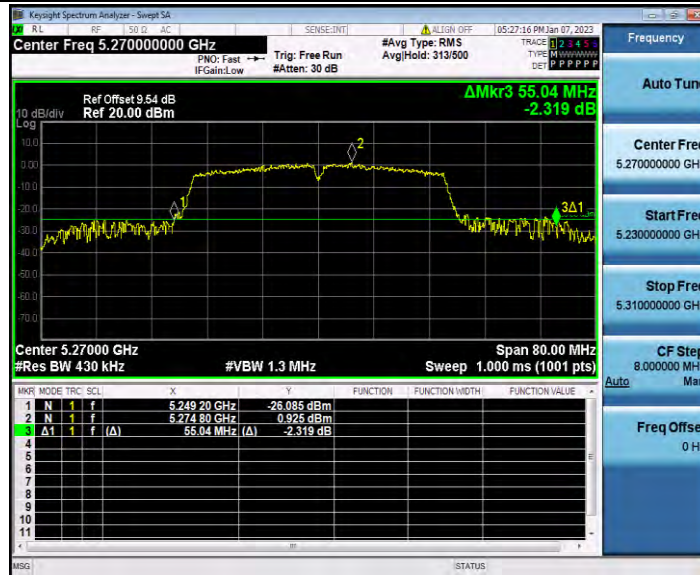
11N20SISO_Ant2_5280



11N20SISO_Ant2_5320



11N40SISO_Ant2_5270



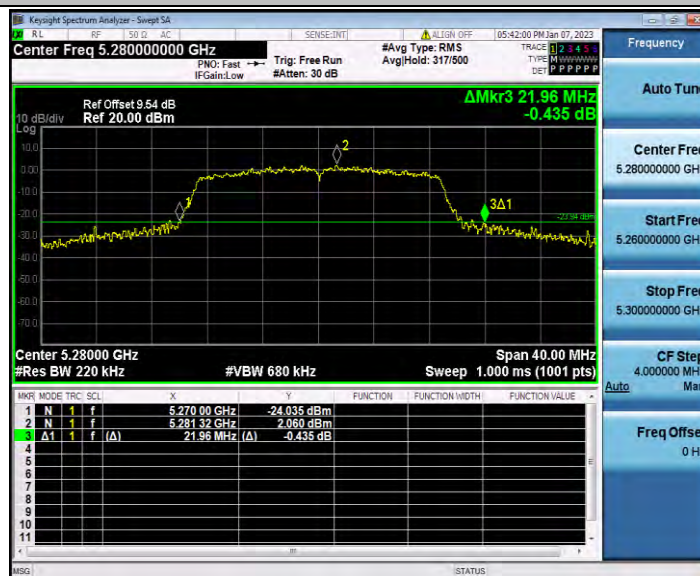
11N40SISO_Ant2_5310



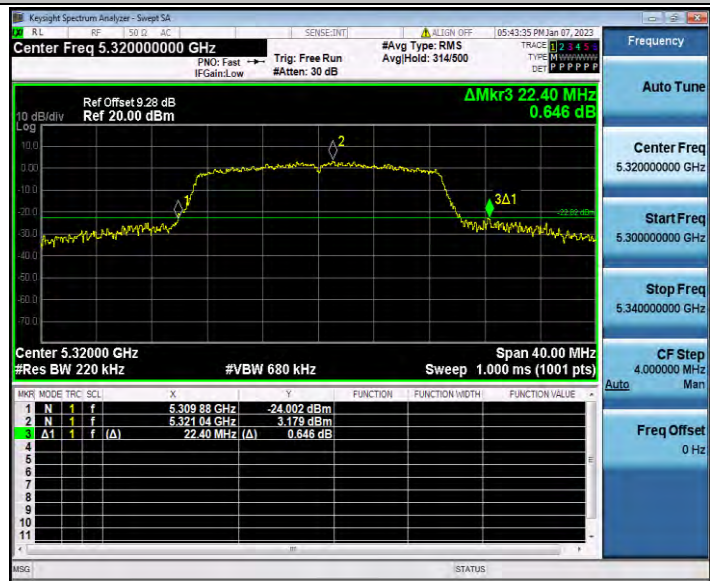
11AC20SISO_Ant2_5260



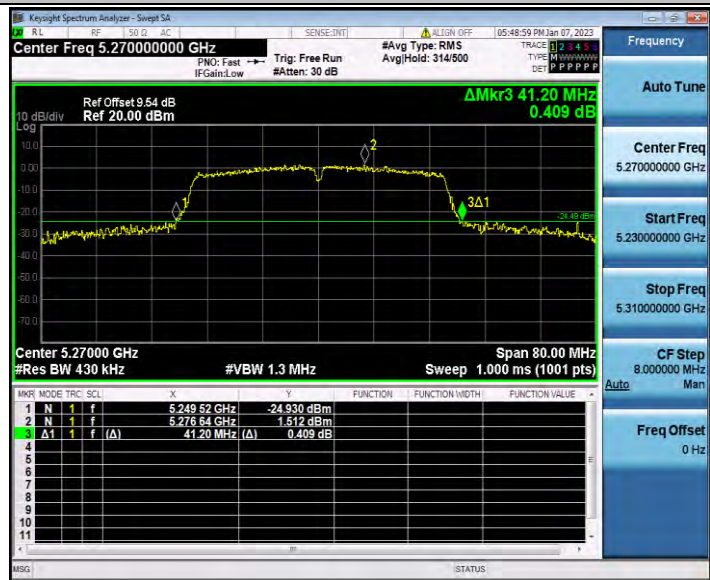
11AC20SISO_Ant2_5280



11AC20SISO_Ant2_5320



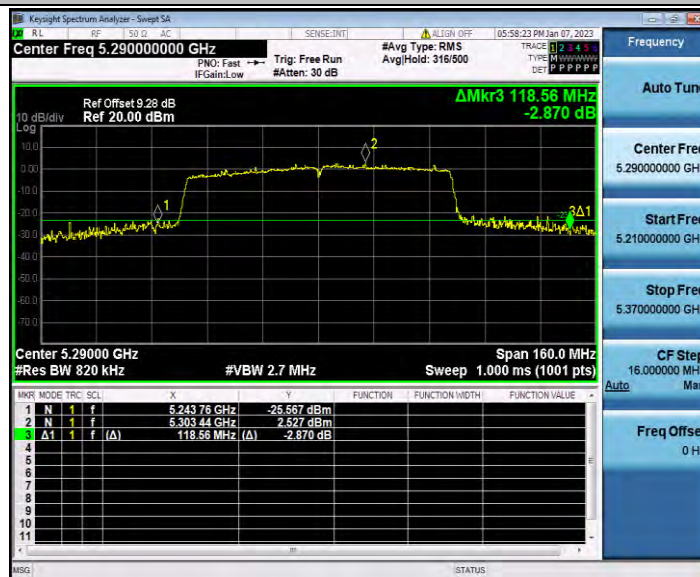
11AC40SISO_Ant2_5270



11AC40SISO_Ant2_5310



11AC80SISO_Ant2_5290



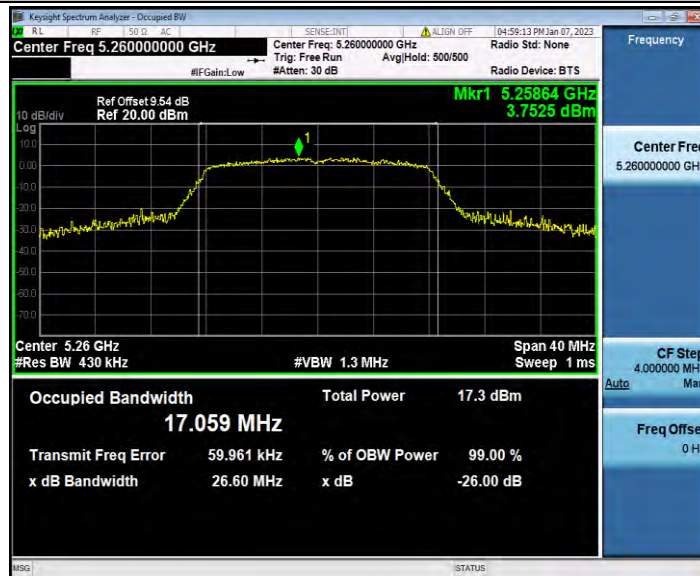
Appendix E.2: Occupied channel bandwidth

Test Result

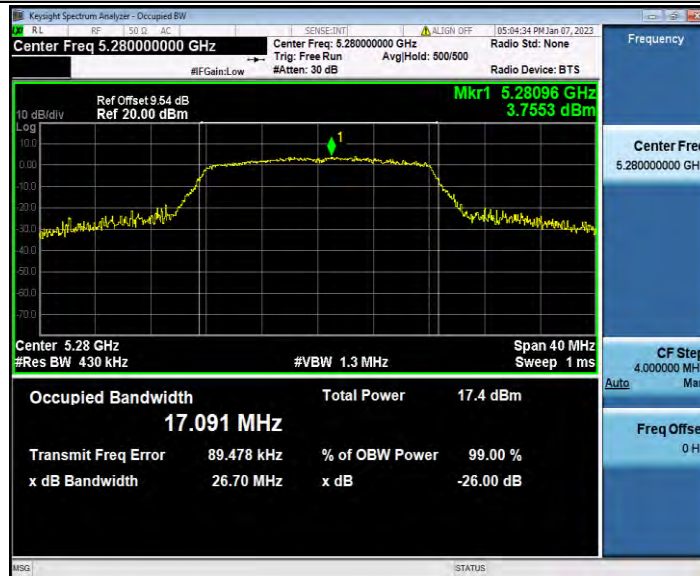
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5260	17.059	5251.530	5268.589	---	---
		5280	17.091	5271.544	5288.635	---	---
		5320	16.980	5311.641	5328.621	---	---
11N20SISO	Ant2	5260	18.126	5250.972	5269.098	---	---
		5280	18.068	5271.061	5289.129	---	---
		5320	18.105	5311.046	5329.151	---	---
11N40SISO	Ant2	5270	36.908	5251.769	5288.677	---	---
		5310	36.608	5292.006	5328.614	---	---
11AC20SISO	Ant2	5260	18.073	5251.016	5269.089	---	---
		5280	18.063	5271.048	5289.111	---	---
		5320	17.979	5311.148	5329.127	---	---
11AC40SISO	Ant2	5270	36.697	5251.806	5288.503	---	---
		5310	36.485	5292.051	5328.536	---	---
11AC80SISO	Ant2	5290	75.855	5252.536	5328.391	---	---

Test Graphs

11A_Ant2_5260



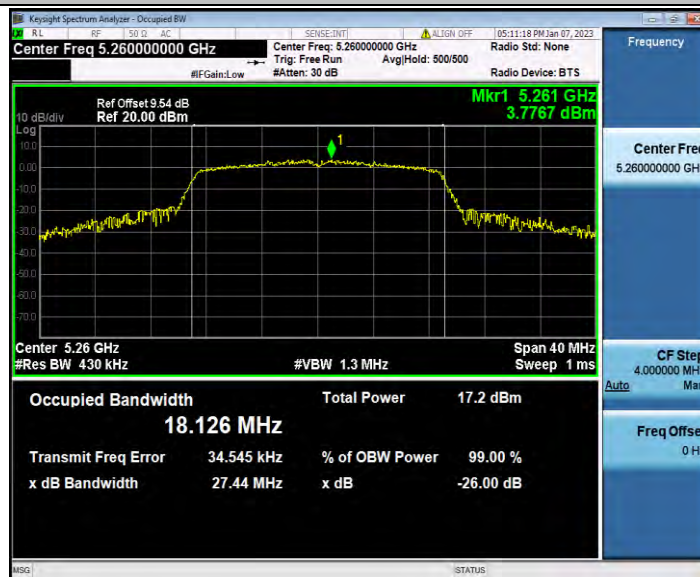
11A_Ant2_5280



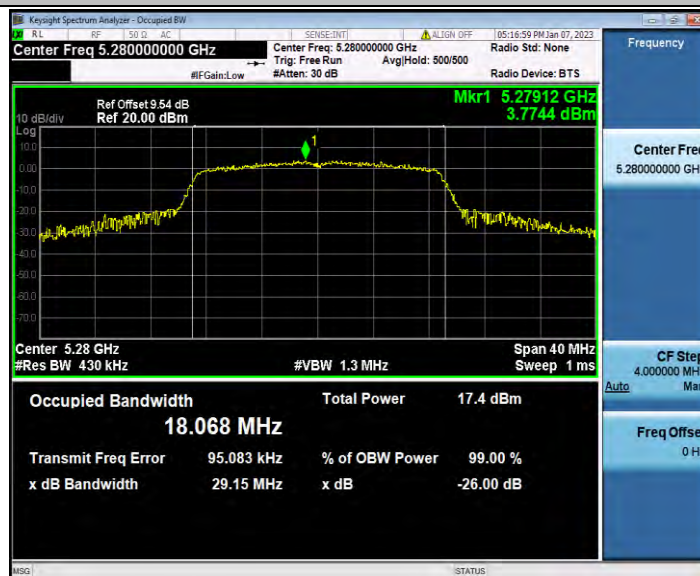
11A_Ant2_5320



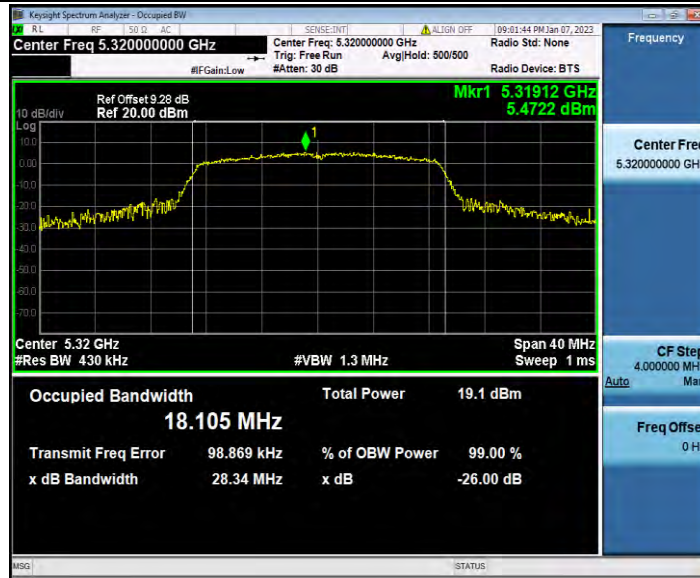
11N20SISO_Ant2_5260



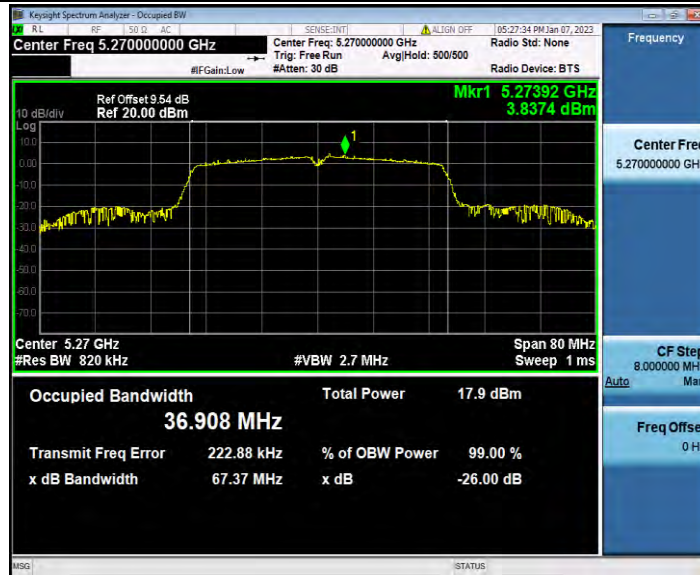
11N20SISO_Ant2_5280



11N20SISO_Ant2_5320



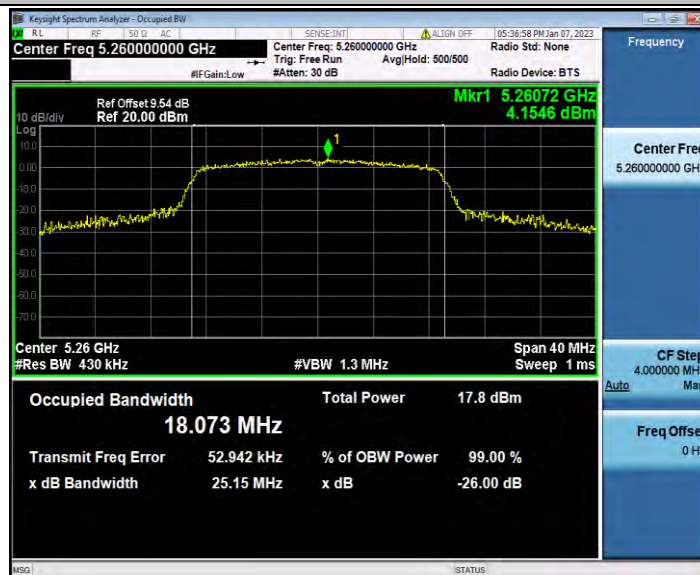
11N40SISO_Ant2_5270



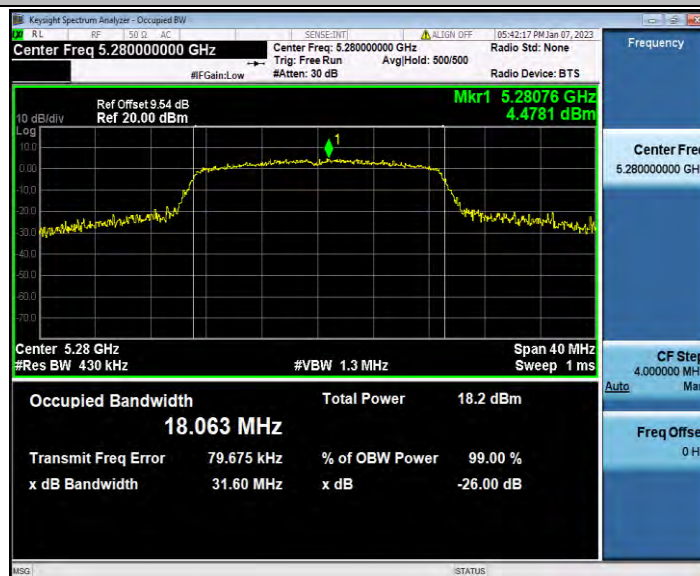
11N40SISO_Ant2_5310



11AC20SISO_Ant2_5260



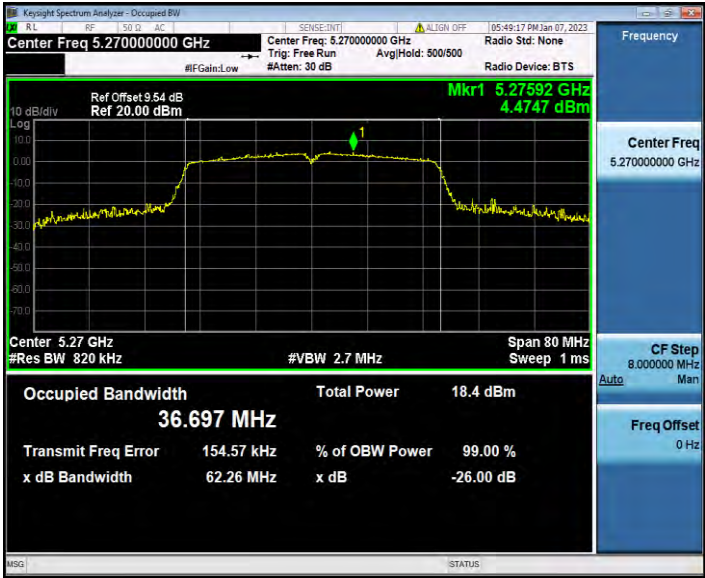
11AC20SISO_Ant2_5280



11AC20SISO_Ant2_5320



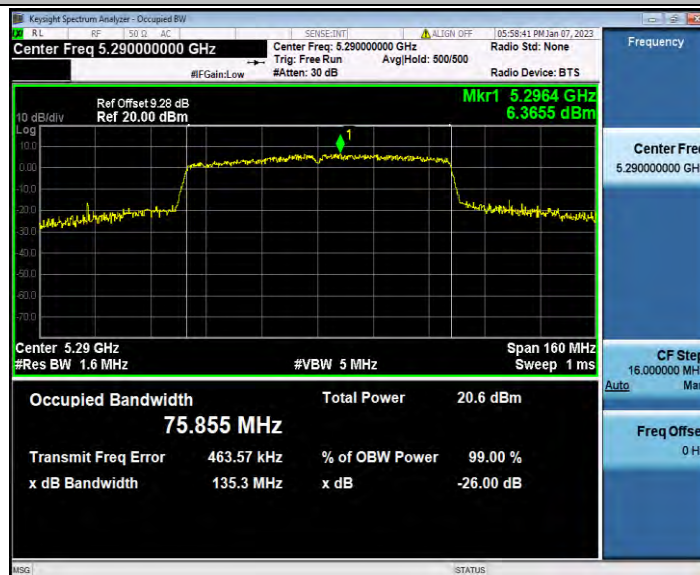
11AC40SISO_Ant2_5270



11AC40SISO_Ant2_5310



11AC80SISO_Ant2_5290



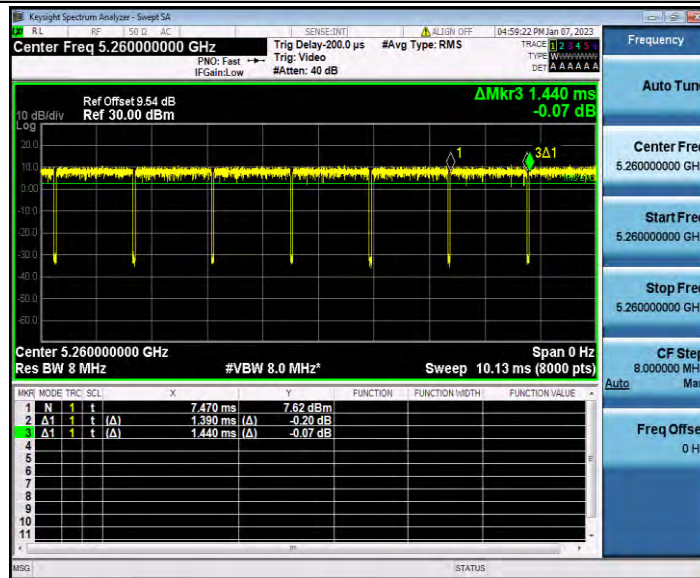
Appendix E.3: Duty Cycle

Test Result

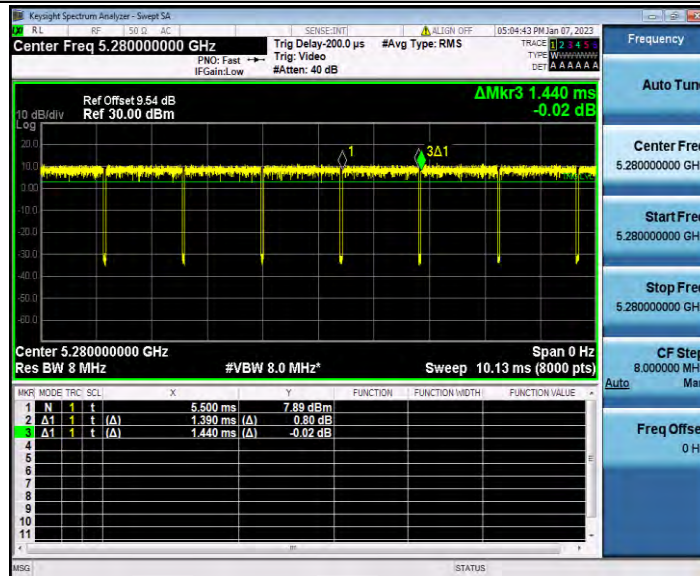
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5260	1.39	1.44	96.53
		5280	1.39	1.44	96.53
		5320	1.40	1.44	97.22
11N20SISO	Ant2	5260	1.30	1.35	96.30
		5280	1.30	1.35	96.30
		5320	1.30	1.35	96.30
11N40SISO	Ant2	5270	0.64	0.69	92.75
		5310	0.65	0.69	94.20
11AC20SISO	Ant2	5260	1.32	1.36	97.06
		5280	1.31	1.36	96.32
		5320	1.31	1.35	97.04
11AC40SISO	Ant2	5270	0.65	0.69	94.20
		5310	0.65	0.70	92.86
11AC80SISO	Ant2	5290	0.33	0.37	89.19

Test Graphs

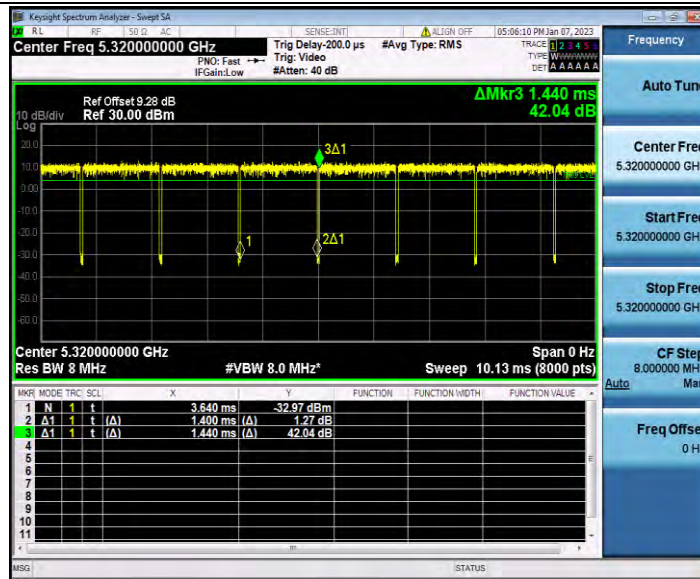
11A_Ant2_5260



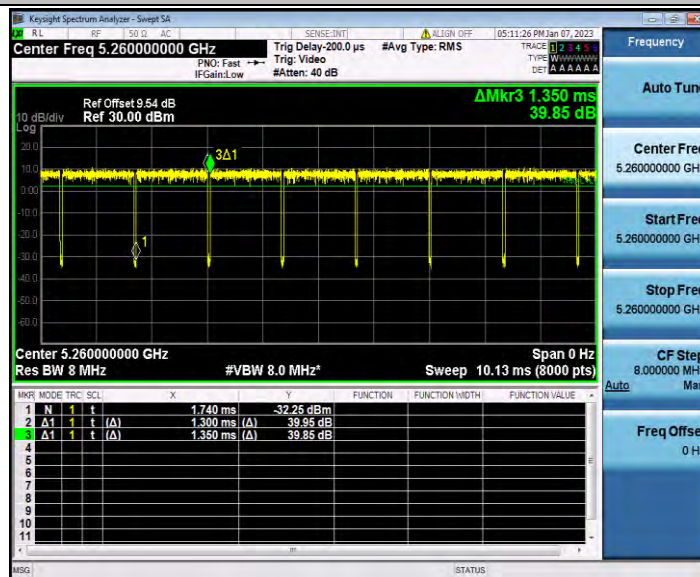
11A_Ant2_5280



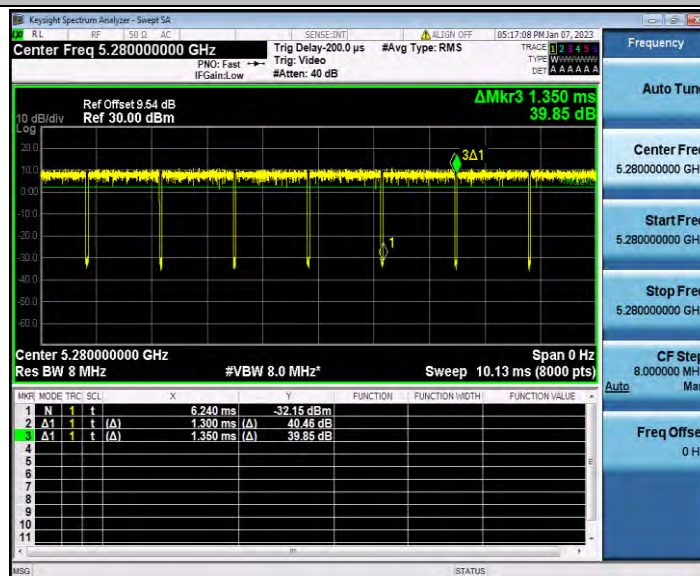
11A_Ant2_5320



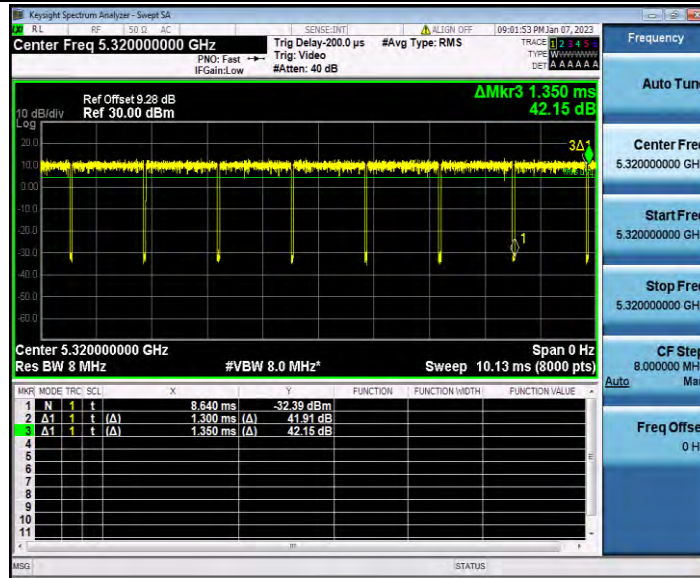
11N20SISO_Ant2_5260



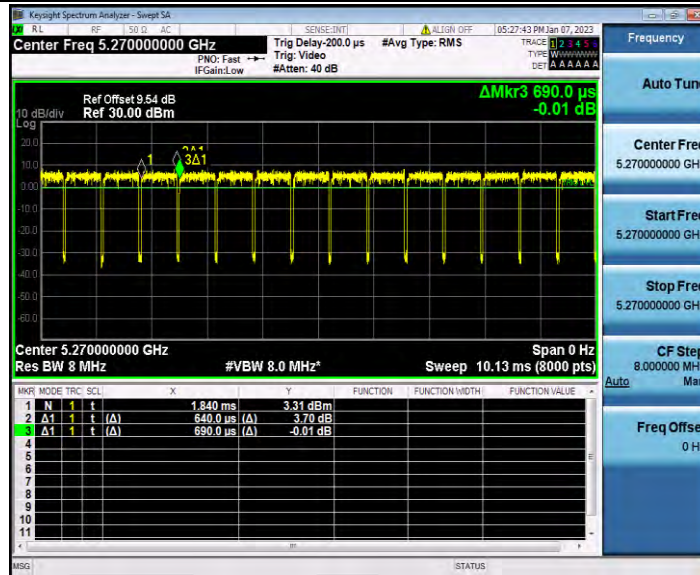
11N20SISO_Ant2_5280



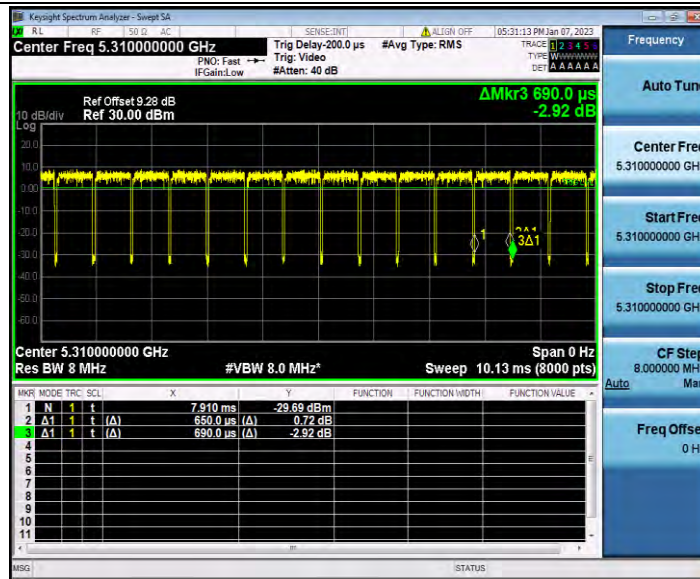
11N20SISO_Ant2_5320



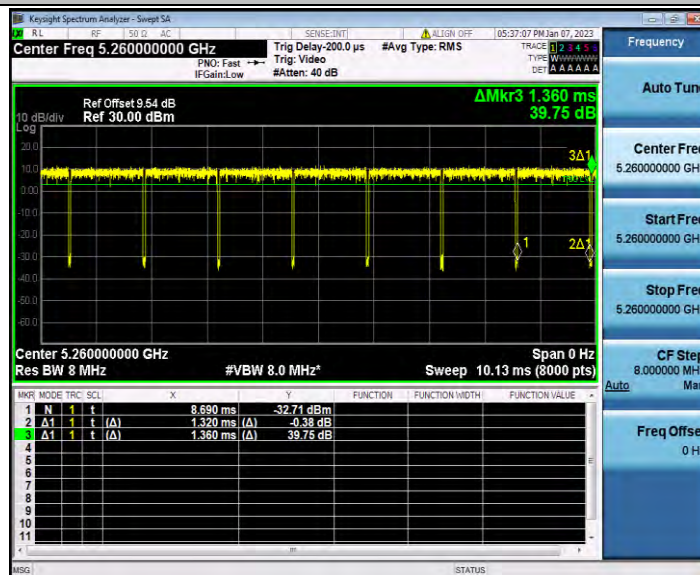
11N40SISO_Ant2_5270



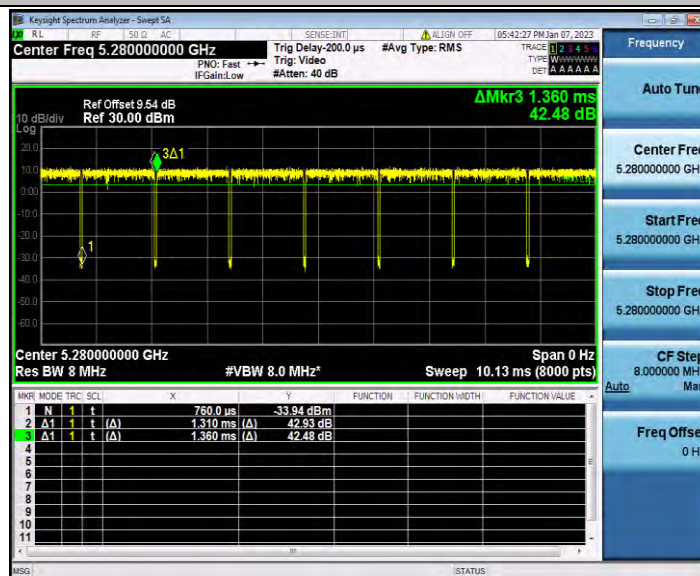
11N40SISO_Ant2_5310



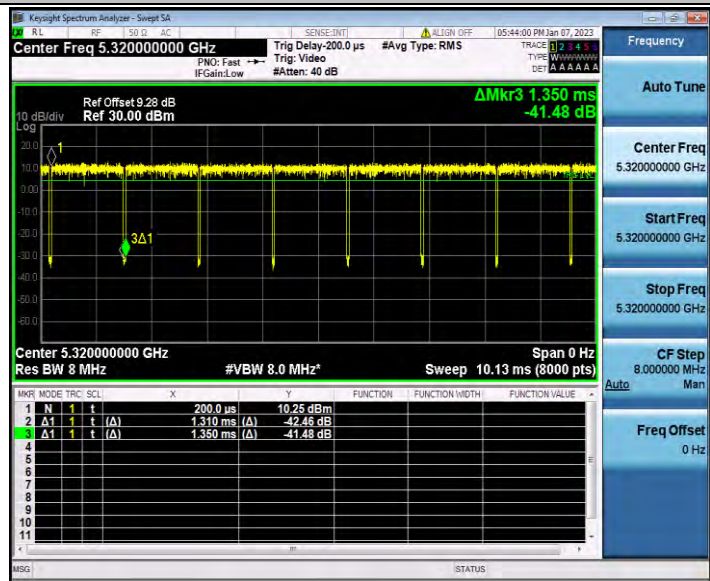
11AC20SISO_Ant2_5260



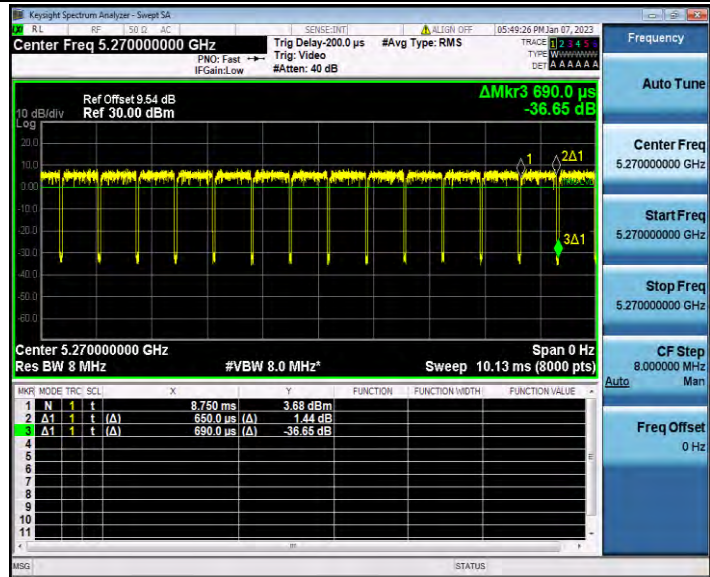
11AC20SISO_Ant2_5280



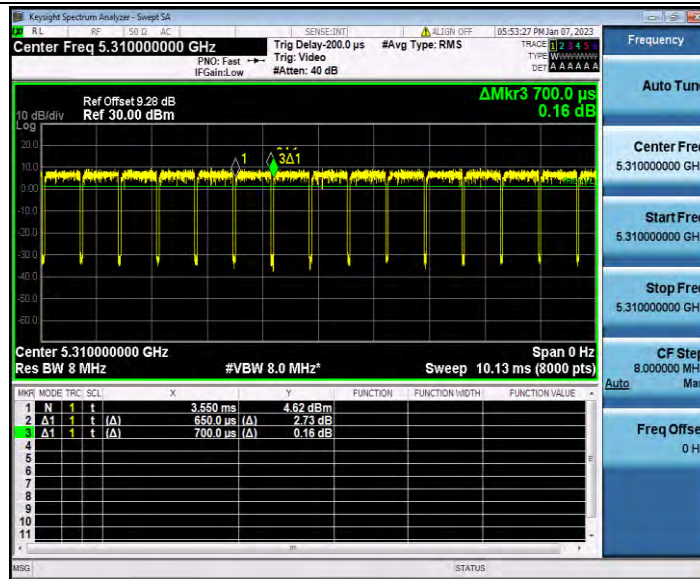
11AC20SISO_Ant2_5320



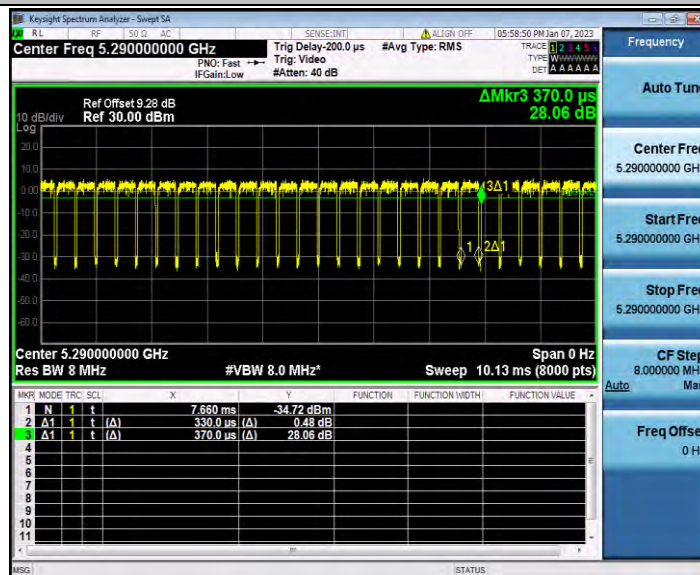
11AC40SISO_Ant2_5270



11AC40SISO_Ant2_5310



11AC80SISO_Ant2_5290



Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5260	10.37	96.53	0.15	10.52	≤23.98	PASS
		5280	10.73	96.53	0.15	10.88	≤23.98	PASS
		5320	11.85	97.22	0.12	11.97	≤23.96	PASS
11N20SISO	Ant2	5260	10.22	96.30	0.16	10.38	≤23.98	PASS
		5280	10.43	96.30	0.16	10.59	≤23.98	PASS
		5320	12.42	96.30	0.16	12.58	≤23.98	PASS
11N40SISO	Ant2	5270	10.21	92.75	0.33	10.54	≤23.98	PASS
		5310	11.23	94.20	0.26	11.49	≤23.98	PASS
11AC20SISO	Ant2	5260	10.87	97.06	0.13	11.00	≤23.98	PASS
		5280	11.20	96.32	0.16	11.36	≤23.98	PASS
		5320	12.27	97.04	0.13	12.40	≤23.98	PASS
11AC40SISO	Ant2	5270	10.79	94.20	0.26	11.05	≤23.98	PASS
		5310	11.88	92.86	0.32	12.20	≤23.98	PASS
11AC80SISO	Ant2	5290	11.14	89.19	0.50	11.64	≤23.98	PASS

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

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5260	0.02	≤11.00	PASS
		5280	0.49	≤11.00	PASS
		5320	1.63	≤11.00	PASS
11N20SISO	Ant2	5260	-0.28	≤11.00	PASS
		5280	0.04	≤11.00	PASS
		5320	1.96	≤11.00	PASS
11N40SISO	Ant2	5270	-2.88	≤11.00	PASS
		5310	-1.71	≤11.00	PASS
11AC20SISO	Ant2	5260	0.46	≤11.00	PASS
		5280	0.73	≤11.00	PASS
		5320	1.84	≤11.00	PASS
11AC40SISO	Ant2	5270	-2.51	≤11.00	PASS
		5310	-1.22	≤11.00	PASS
11AC80SISO	Ant2	5290	-5.32	≤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_Ant2_5260



11A_Ant2_5280



11A_Ant2_5320



11N20SISO_Ant2_5260



11N20SISO_Ant2_5280



11N20SISO_Ant2_5320



11N40SISO_Ant2_5270



11N40SISO_Ant2_5310



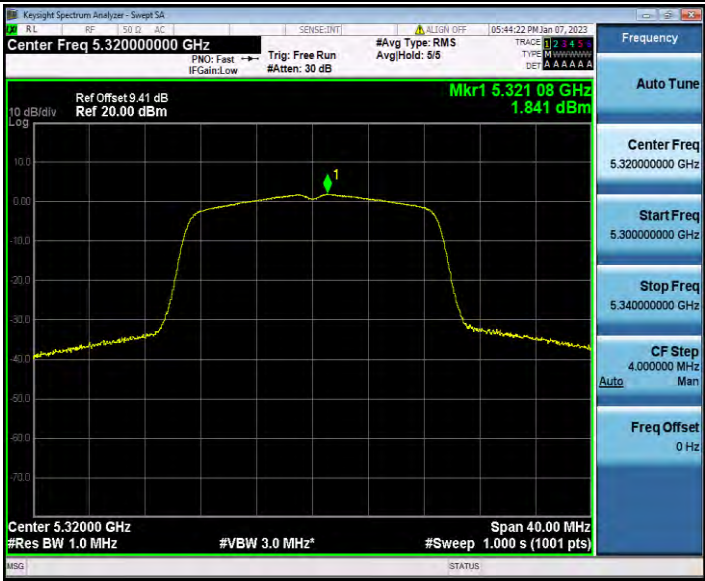
11AC20SISO_Ant2_5260



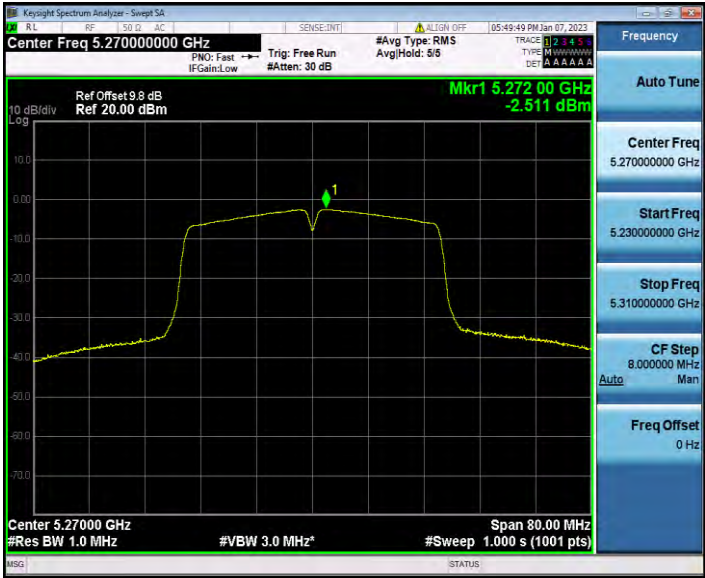
11AC20SISO_Ant2_5280



11AC20SISO_Ant2_5320



11AC40SISO_Ant2_5270



11AC40SISO_Ant2_5310



11AC80SISO_Ant2_5290



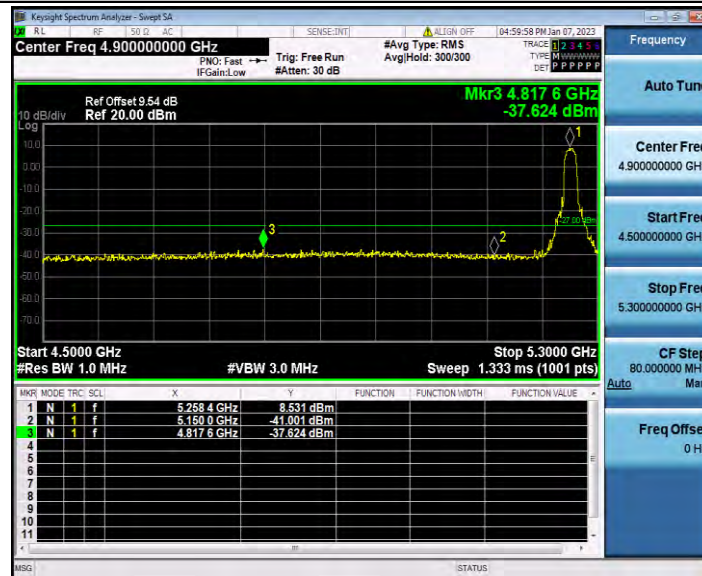
Appendix E.6: Band edge measurements

Test Result B2

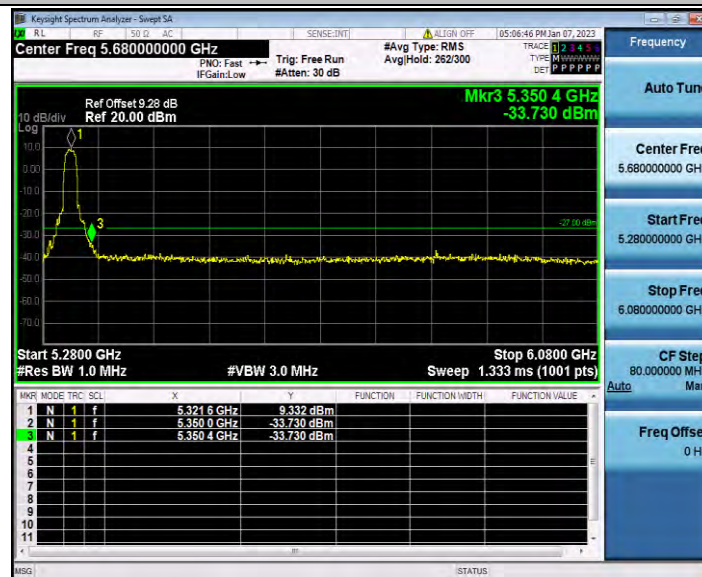
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5260	-37.62	≤-27	PASS
		High	5320	-33.73	≤-27	PASS
11N20SISO	Ant2	Low	5260	-37.82	≤-27	PASS
		High	5320	-32.53	≤-27	PASS
11N40SISO	Ant2	Low	5270	-37.88	≤-27	PASS
		High	5310	-28.15	≤-27	PASS
11AC20SISO	Ant2	Low	5260	-37.61	≤-27	PASS
		High	5320	-29.28	≤-27	PASS
11AC40SISO	Ant2	Low	5270	-37.93	≤-27	PASS
		High	5310	-31.87	≤-27	PASS
11AC80SISO	Ant2	Low	5290	-37.55	≤-27	PASS
		High	5290	-33.89	≤-27	PASS

Test Graphs B1/2/3

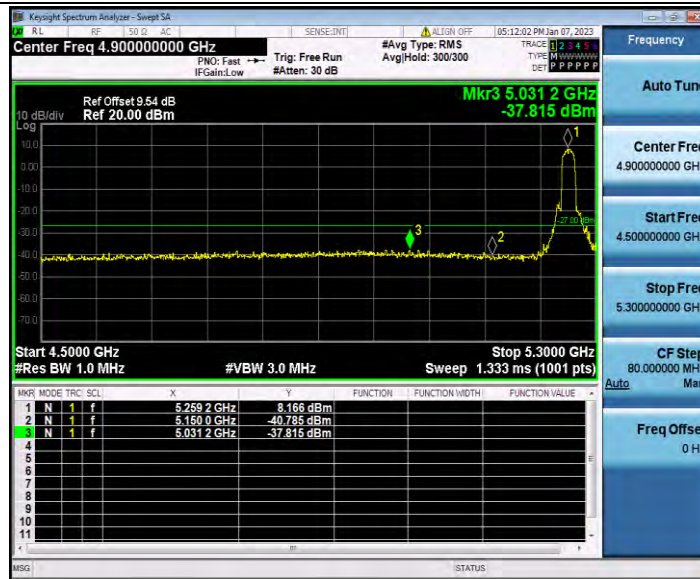
11A_Ant2_Low_5260



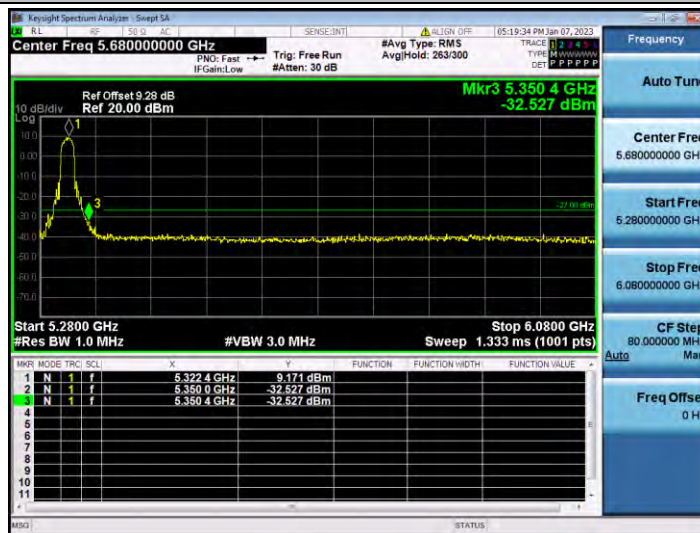
11A_Ant2_High_5320



11N20SISO_Ant2_Low_5260



11N20SISO_Ant2_High_5320



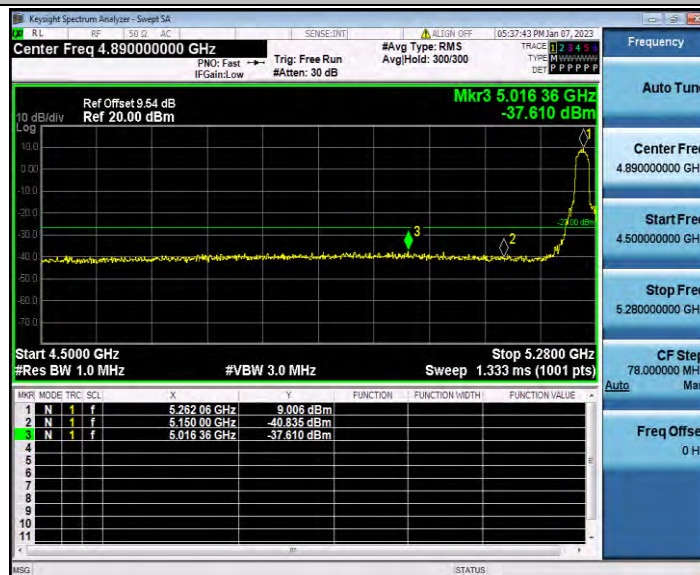
11N40SISO_Ant2_Low_5270



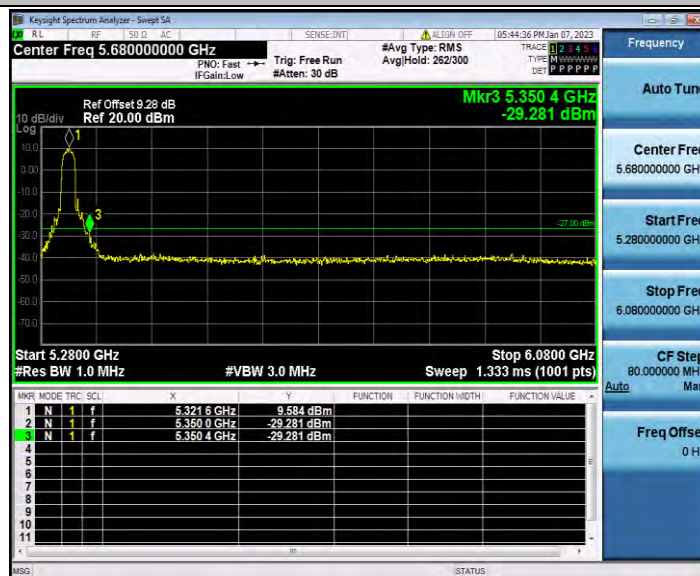
11N40SISO_Ant2_High_5310



11AC20SISO_Ant2_Low_5260



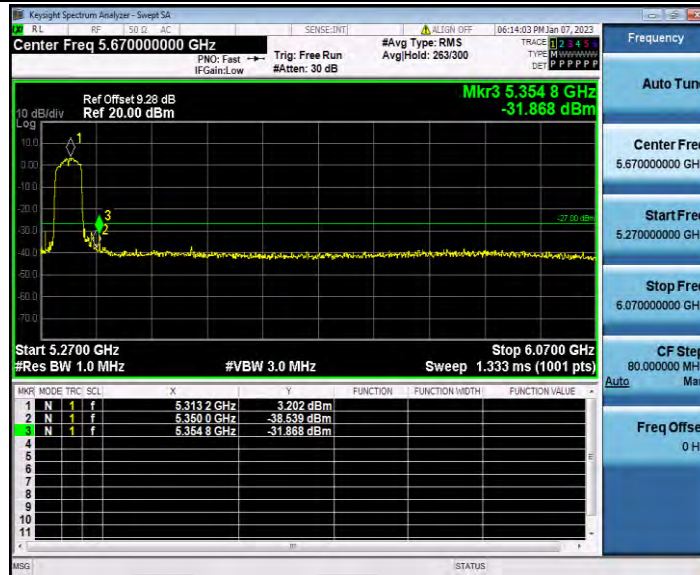
11AC20SISO_Ant2_High_5320



11AC40SISO_Ant2_Low_5270



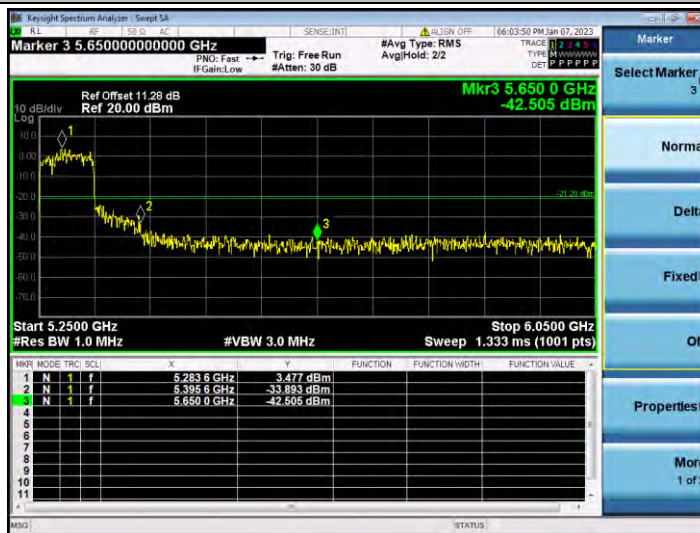
11AC40SISO_Ant2_High_5310



11AC80SISO_Ant2_Low_5290



11AC80SISO_Ant2_High_5290



Appendix E.7: Conducted Spurious Emission

Test Result

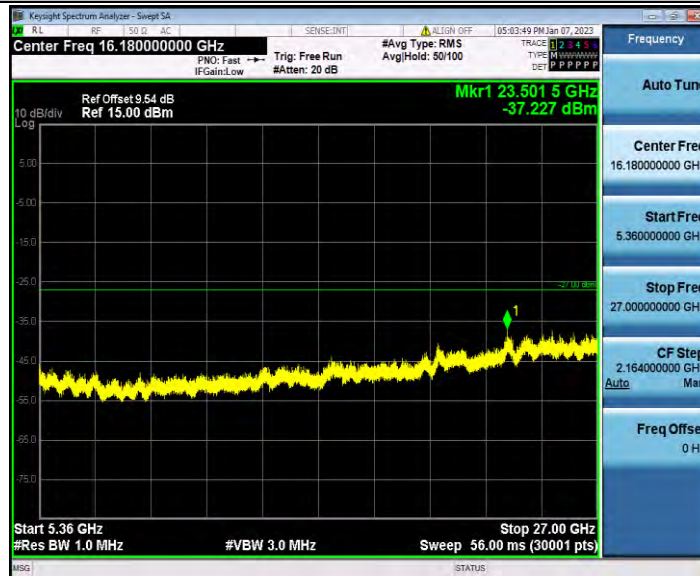
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5260	30~5140	1746.28	-46.74	≤-27	PASS
			5360~40000	23501.53	-37.23	≤-27	PASS
		5280	30~5140	4950.08	-47.16	≤-27	PASS
			5360~40000	24264.7	-37.55	≤-27	PASS
		5320	30~5140	2530.32	-47.69	≤-27	PASS
			5360~40000	26732.39	-38.72	≤-27	PASS
11N20SISO	Ant2	5260	30~5140	3191.05	-45.65	≤-27	PASS
			5360~40000	24231.52	-38.35	≤-27	PASS
		5280	30~5140	4911.58	-47.3	≤-27	PASS
			5360~40000	26761.24	-37.37	≤-27	PASS
		5320	30~5140	2645.64	-47.44	≤-27	PASS
			5360~40000	24931.22	-37.88	≤-27	PASS
11N40SISO	Ant2	5270	30~5140	4973.75	-46.23	≤-27	PASS
			5360~40000	26980.52	-37.73	≤-27	PASS
		5310	30~5140	5032.86	-47.4	≤-27	PASS
			5360~40000	5362.89	-31.86	≤-27	PASS
11AC20SISO	Ant2	5260	30~5140	3162.43	-46.85	≤-27	PASS
			5360~40000	25135.35	-38.1	≤-27	PASS
		5280	30~5140	3454.89	-47.53	≤-27	PASS
			5360~40000	23653.73	-38.44	≤-27	PASS
		5320	30~5140	4840.04	-46.85	≤-27	PASS
			5360~40000	5360	-34.76	≤-27	PASS
11AC40SISO	Ant2	5270	30~5140	4948.72	-47.55	≤-27	PASS
			5360~40000	26467.66	-37.82	≤-27	PASS
		5310	30~5140	4615.88	-47.55	≤-27	PASS
			5360~40000	5360	-31.7	≤-27	PASS
11AC80SISO	Ant2	5290	30~5140	3413.33	-47.78	≤-27	PASS
			5360~40000	24232.24	-38.31	≤-27	PASS

Test Graphs

11A_Ant2_5260_30~5140



11A_Ant2_5260_5360~40000



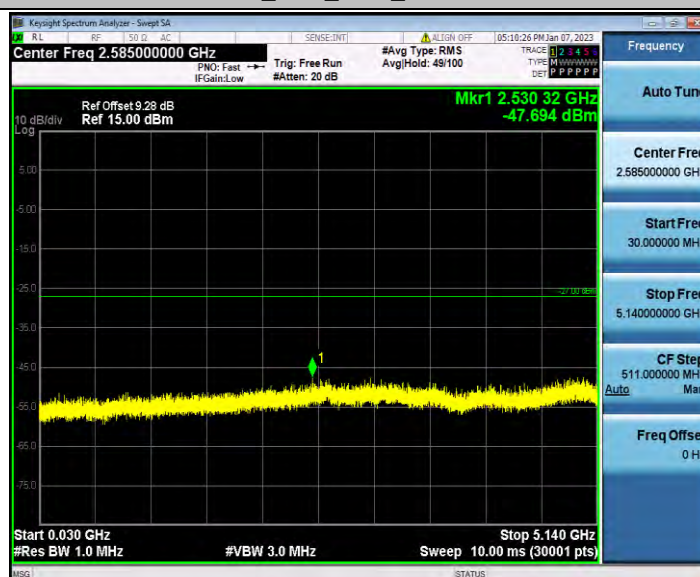
11A_Ant2_5280_30~5140



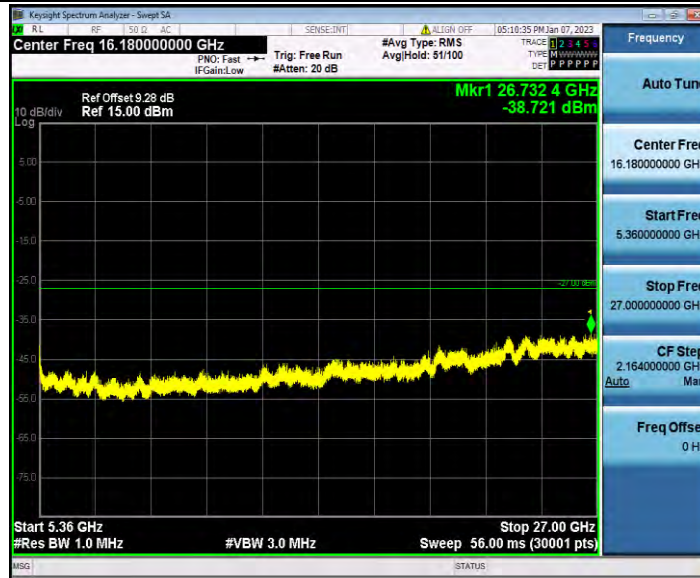
11A_Ant2_5280_5360~40000



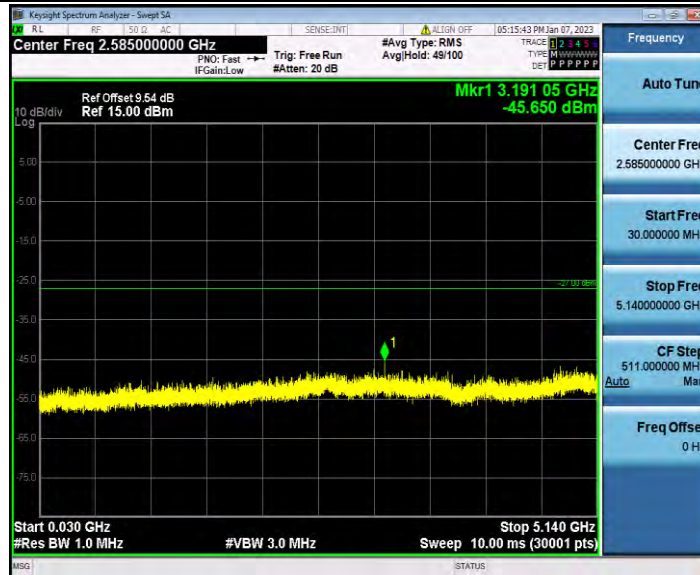
11A_Ant2_5320_30~5140



11A_Ant2_5320_5360~40000



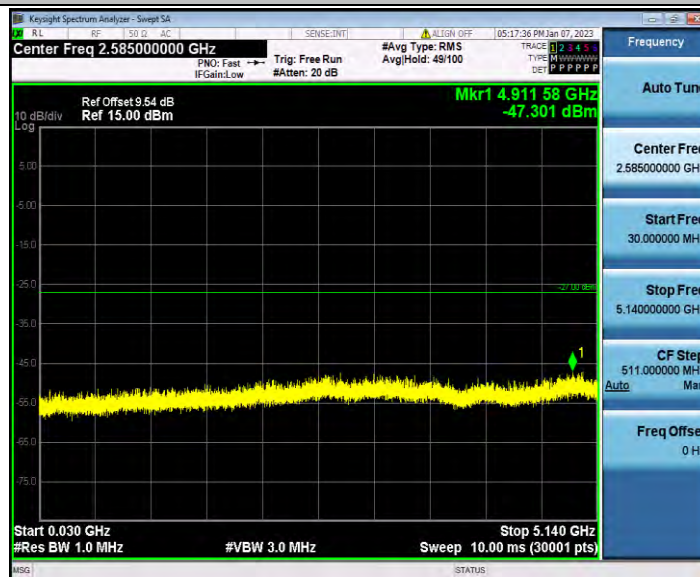
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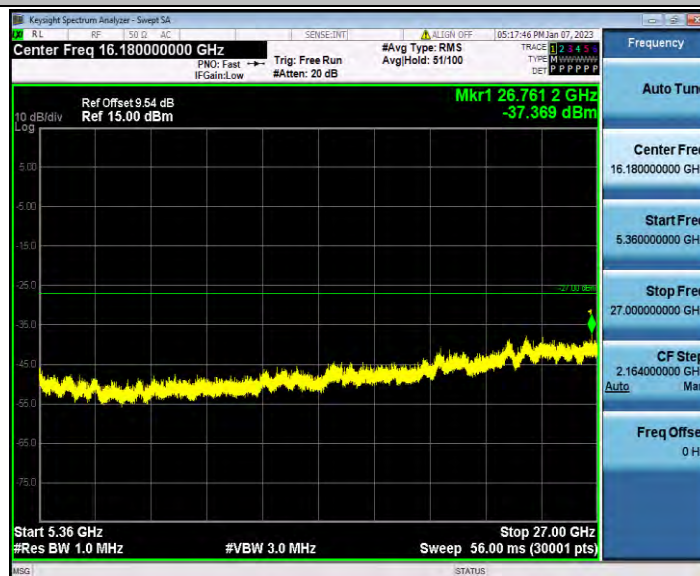
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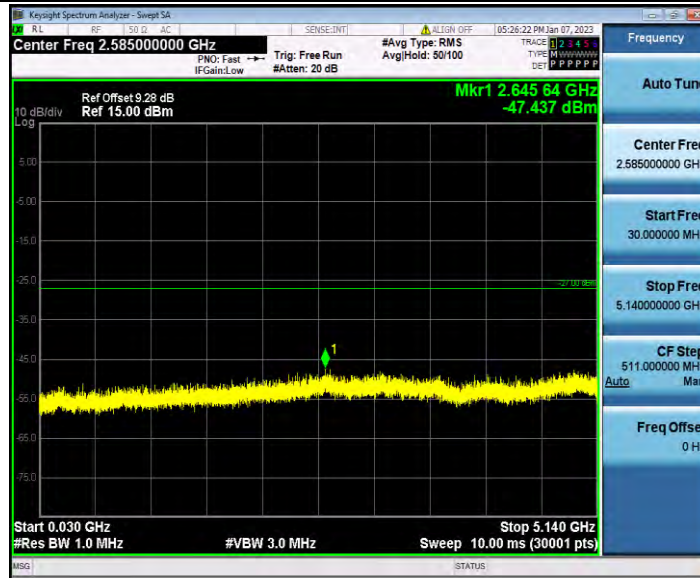
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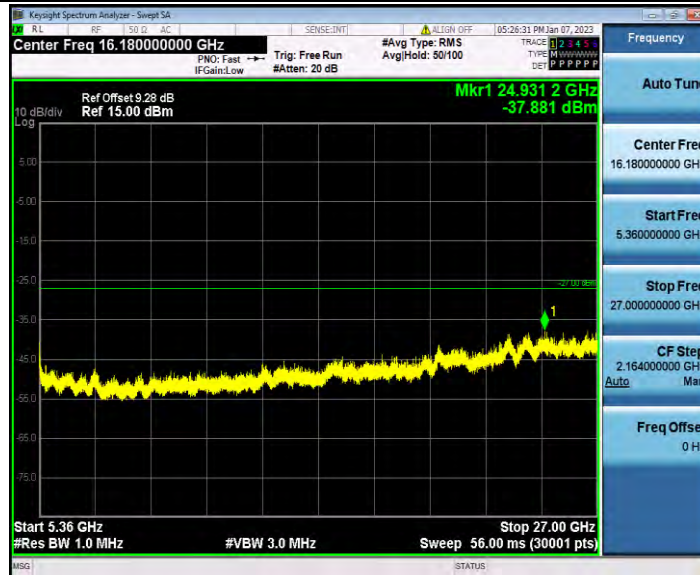
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11N20SISO_Ant2_5320_30~5140



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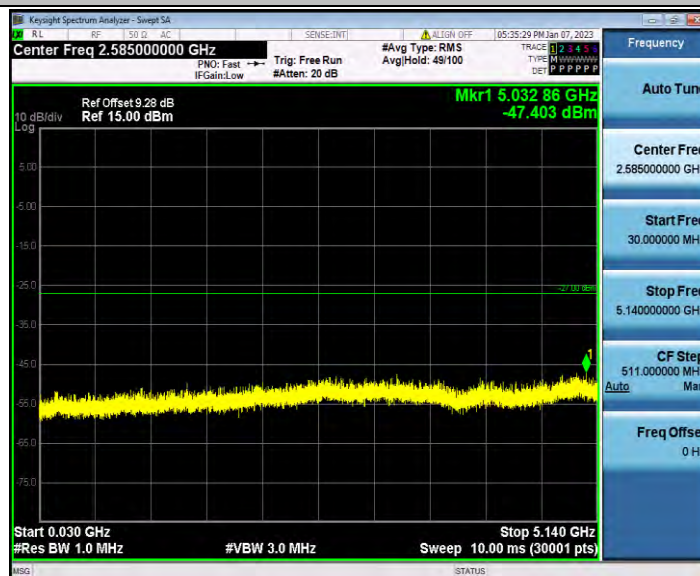
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11N40SISO_Ant2_5270_5360~40000



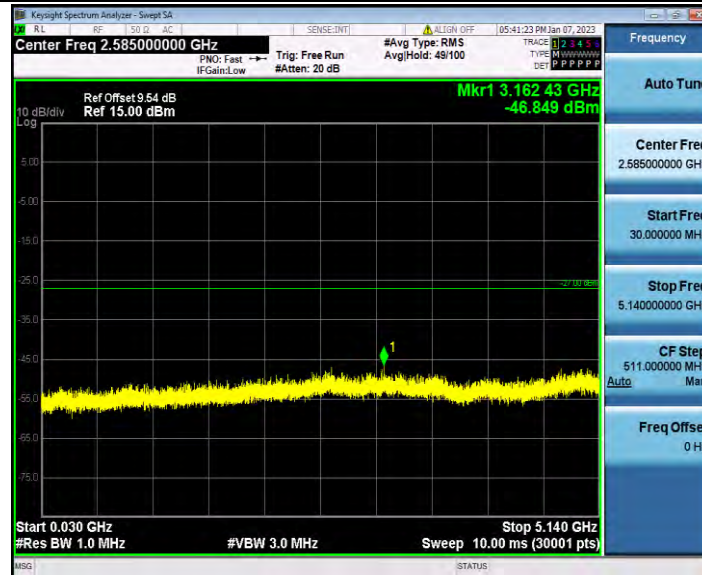
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11N40SISO_Ant2_5310_5360~40000



11AC20SISO_Ant2_5260_30~5140



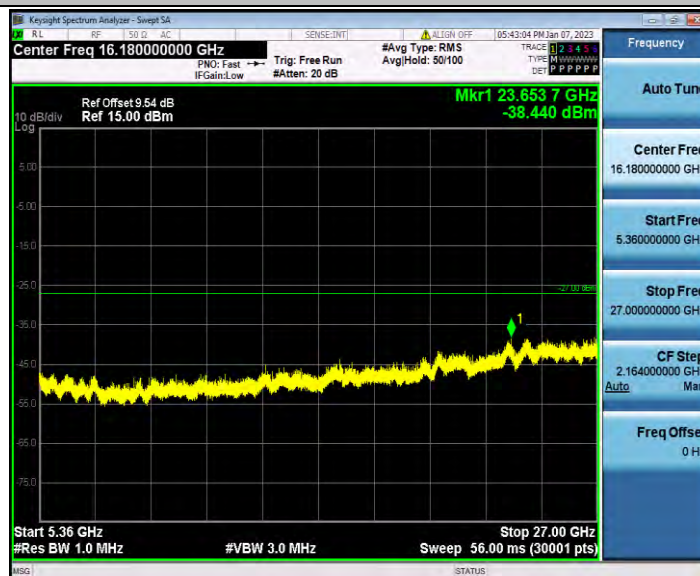
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11AC20SISO_Ant2_5280_30~5140



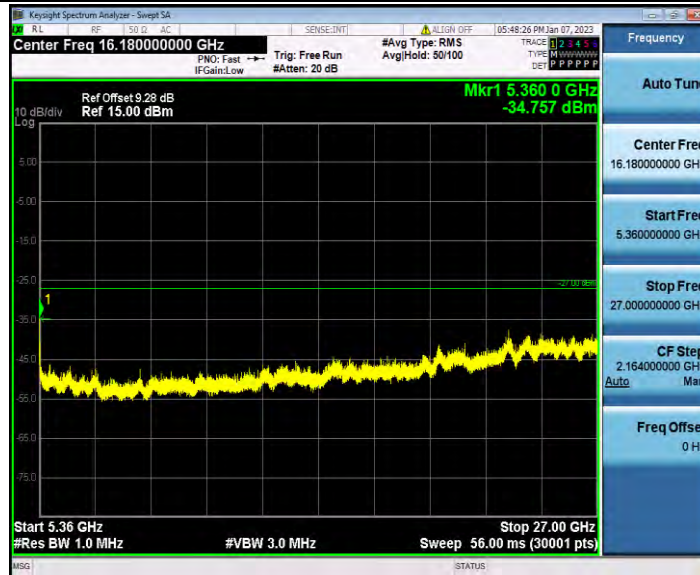
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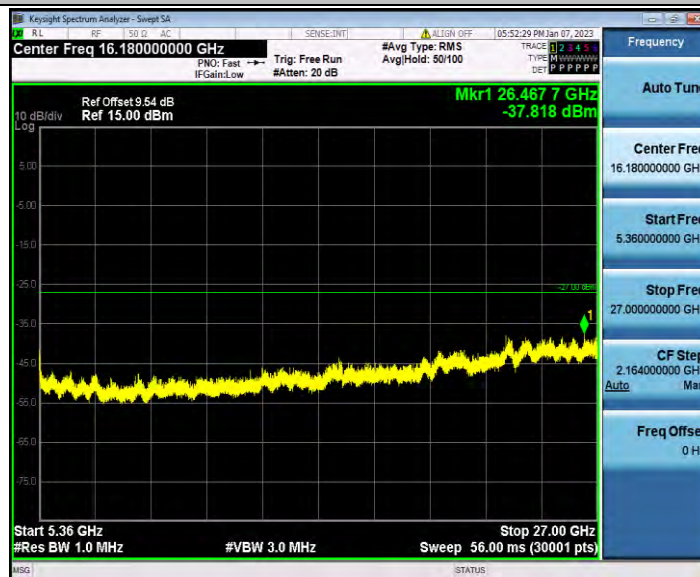
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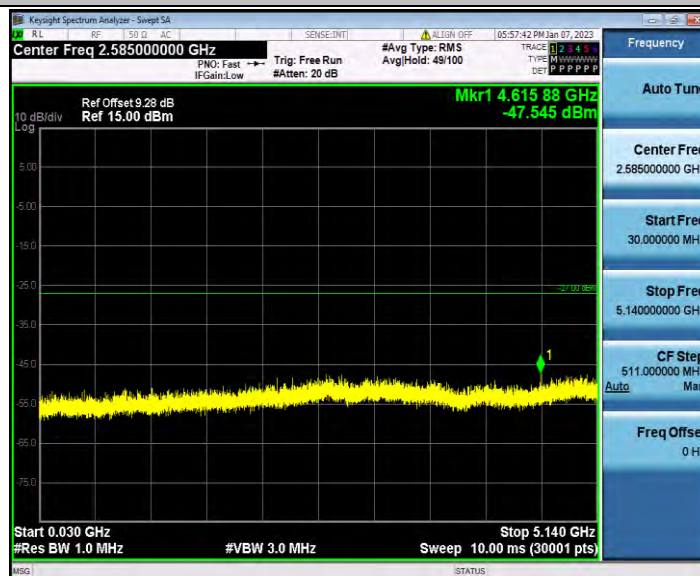
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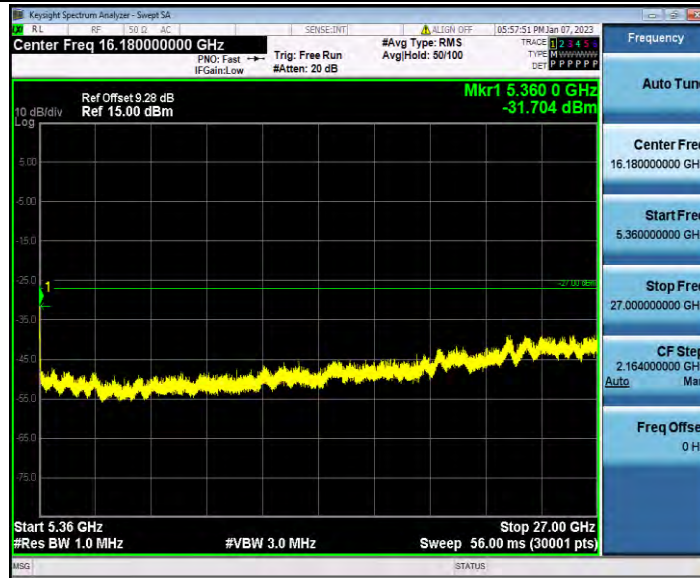
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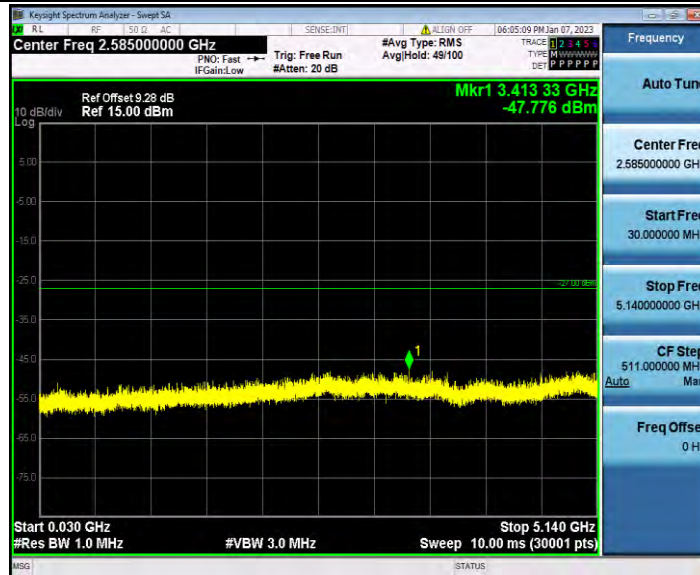
11AC40SISO_Ant2_5310_30~5140



11AC40SISO_Ant2_5310_5360~40000



11AC80SISO_Ant2_5290_30~5140



11AC80SISO_Ant2_5290_5360~40000

