

Case No. : <u>GTS20220723004-1-36</u>	
Ambient Condition: <u>25</u> °C, <u>48</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2022.8.26</u>	Test Engineer: <u>Jenny zeng</u>

Appendix E.1: Emission Bandwidth

Test Result

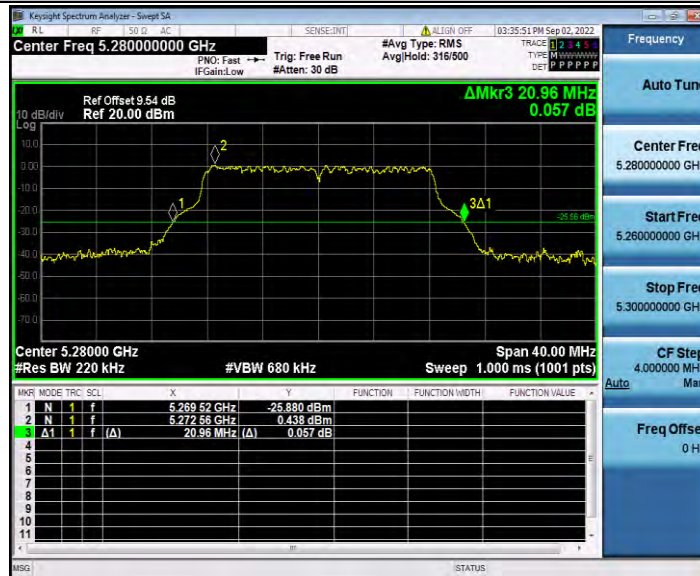
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	20.880	5249.600	5270.480	---	---
		5280	20.960	5269.520	5290.480	---	---
		5320	20.920	5309.600	5330.520	---	---
11N20SISO	Ant1	5260	21.200	5249.400	5270.600	---	---
		5280	21.320	5269.320	5290.640	---	---
		5320	21.440	5309.280	5330.720	---	---
11N40SISO	Ant1	5270	39.840	5250.000	5289.840	---	---
		5310	44.960	5285.120	5330.080	---	---
11AC20SISO	Ant1	5260	21.640	5249.160	5270.800	---	---
		5280	21.520	5269.240	5290.760	---	---
		5320	21.560	5309.280	5330.840	---	---
11AC40SISO	Ant1	5270	40.400	5249.600	5290.000	---	---
		5310	40.080	5289.920	5330.000	---	---
11AC80SISO	Ant1	5290	81.440	5249.360	5330.800	---	---

Test Graphs

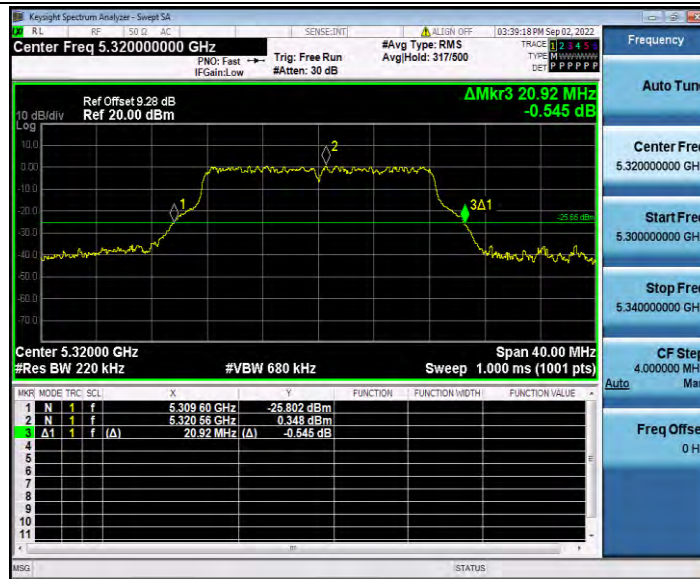
11A_Ant1_5260



11A_Ant1_5280



11A_Ant1_5320



11N20SISO_Ant1_5260



11N20SISO_Ant1_5280





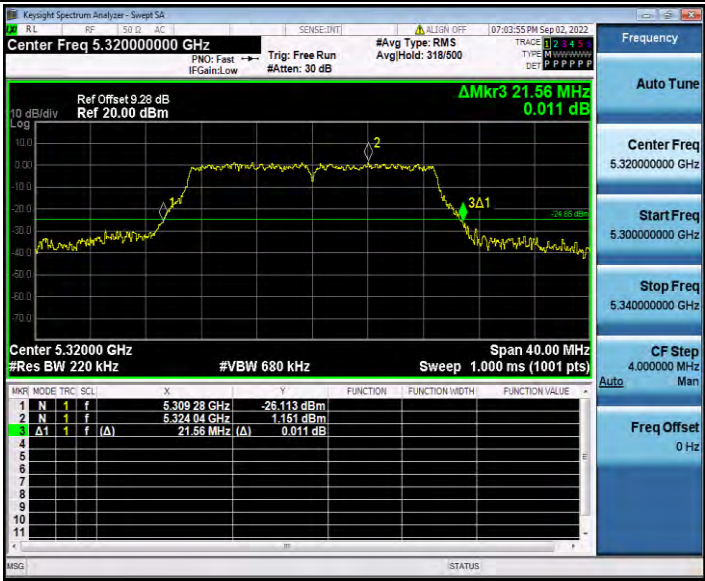
11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



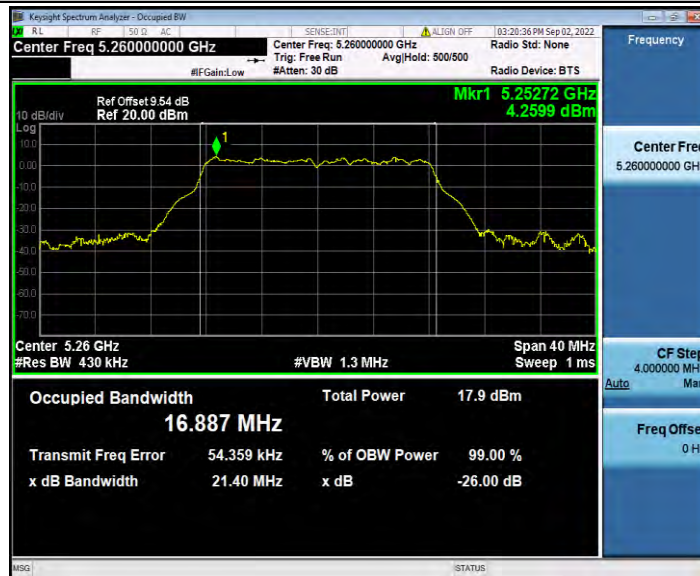
Appendix E.2: Occupied channel bandwidth

Test Result

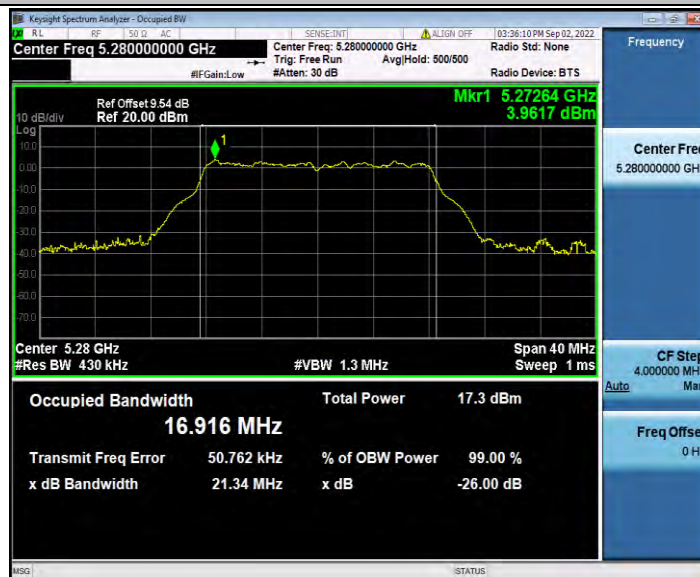
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	16.887	5251.611	5268.498	---	---
		5280	16.916	5271.593	5288.509	---	---
		5320	16.920	5311.620	5328.540	---	---
11N20SISO	Ant1	5260	18.269	5250.878	5269.147	---	---
		5280	18.233	5270.910	5289.143	---	---
		5320	18.284	5310.892	5329.176	---	---
11N40SISO	Ant1	5270	36.629	5251.648	5288.277	---	---
		5310	36.741	5291.654	5328.395	---	---
11AC20SISO	Ant1	5260	18.301	5250.808	5269.109	---	---
		5280	18.353	5270.770	5289.123	---	---
		5320	18.366	5310.794	5329.160	---	---
11AC40SISO	Ant1	5270	36.888	5251.442	5288.330	---	---
		5310	36.916	5291.454	5328.370	---	---
11AC80SISO	Ant1	5290	76.024	5251.933	5327.957	---	---

Test Graphs

11A_Ant1_5260



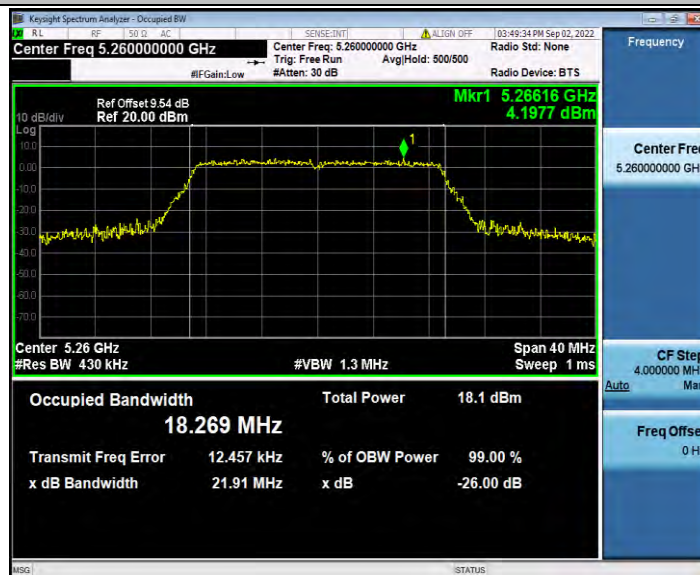
11A_Ant1_5280



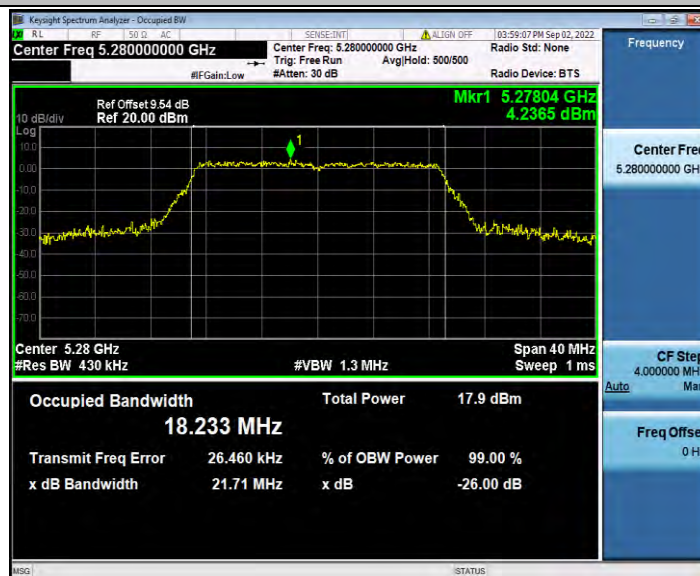
11A_Ant1_5320



11N20SISO_Ant1_5260



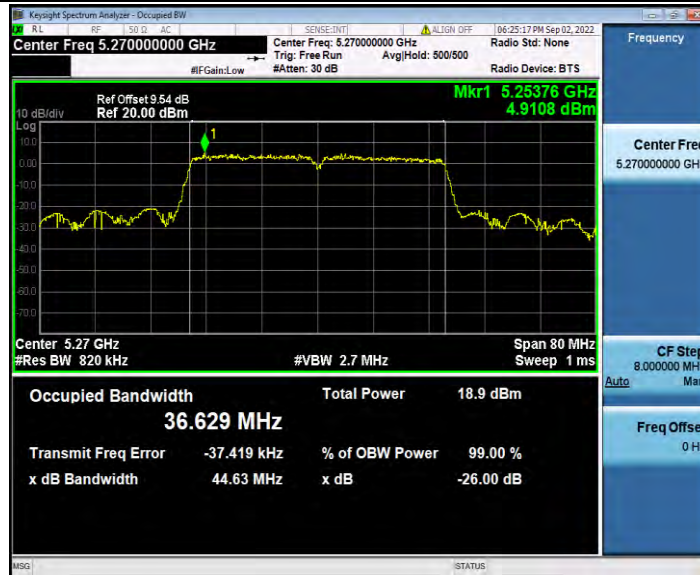
11N20SISO_Ant1_5280



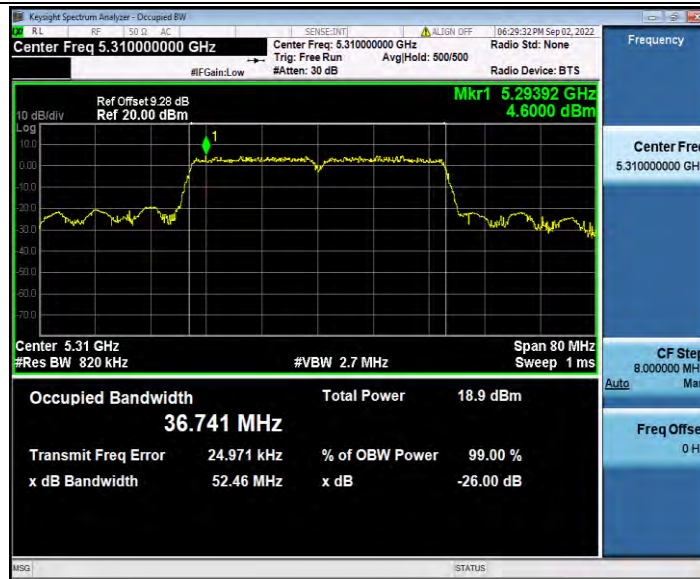
11N20SISO_Ant1_5320



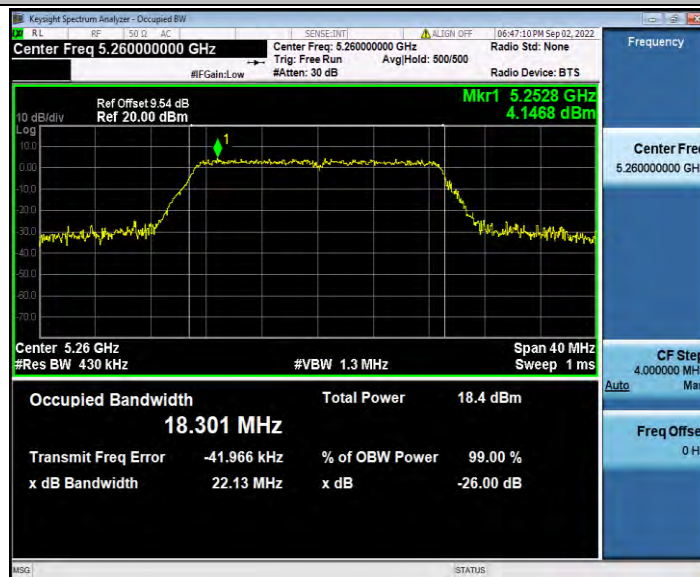
11N40SISO_Ant1_5270



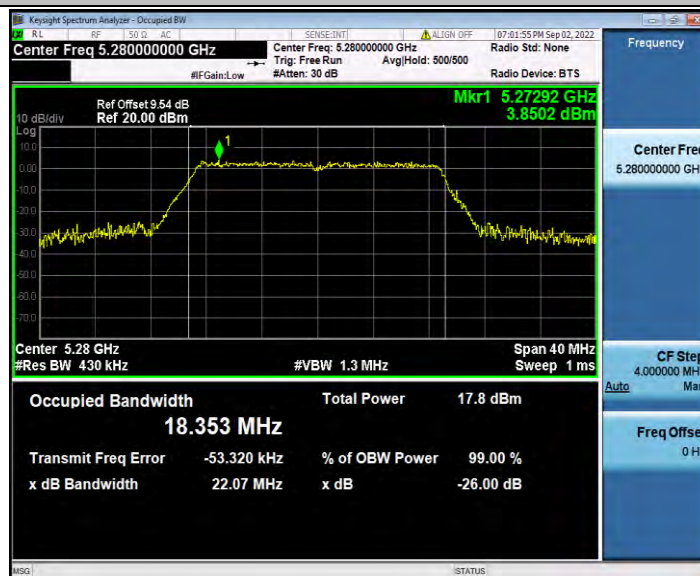
11N40SISO_Ant1_5310



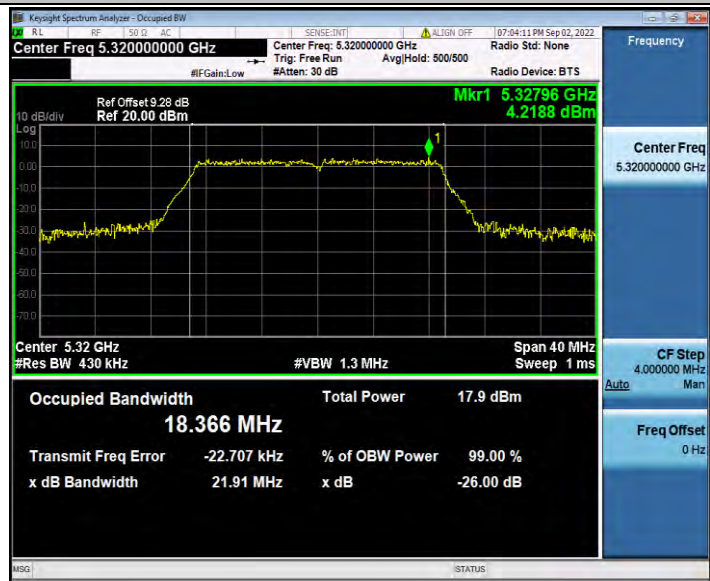
11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



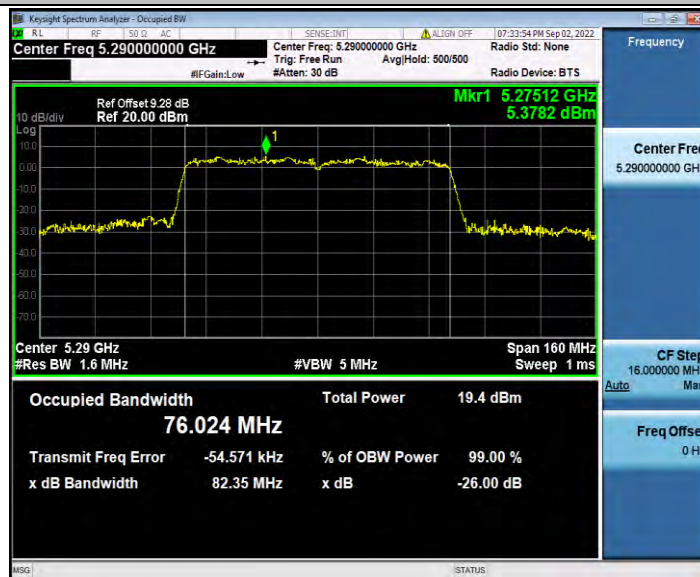
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



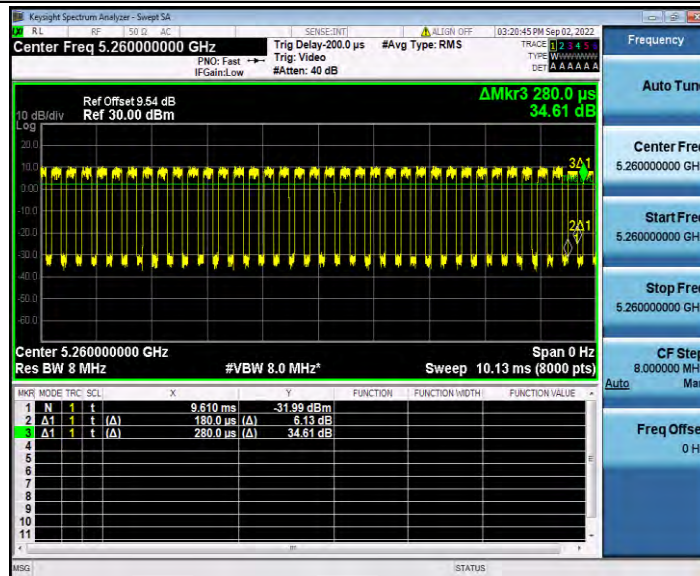
Appendix A.3: Duty Cycle

Test Result

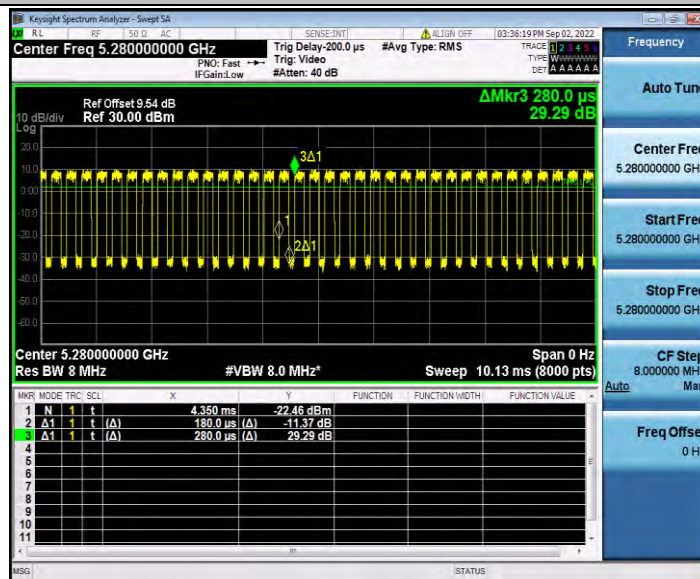
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5260	0.18	0.28	64.29
		5280	0.18	0.28	64.29
		5320	0.18	0.28	64.29
11N20SISO	Ant1	5260	0.16	0.26	61.54
		5280	0.16	0.27	59.26
		5320	0.16	0.26	61.54
11N40SISO	Ant1	5270	0.10	0.20	50.00
		5310	0.10	0.20	50.00
11AC20SISO	Ant1	5260	0.15	0.25	60.00
		5280	0.14	0.24	58.33
		5320	0.14	0.25	56.00
11AC40SISO	Ant1	5270	0.09	0.19	47.37
		5310	0.09	0.19	47.37
11AC80SISO	Ant1	5290	0.06	0.16	37.50

Test Graphs

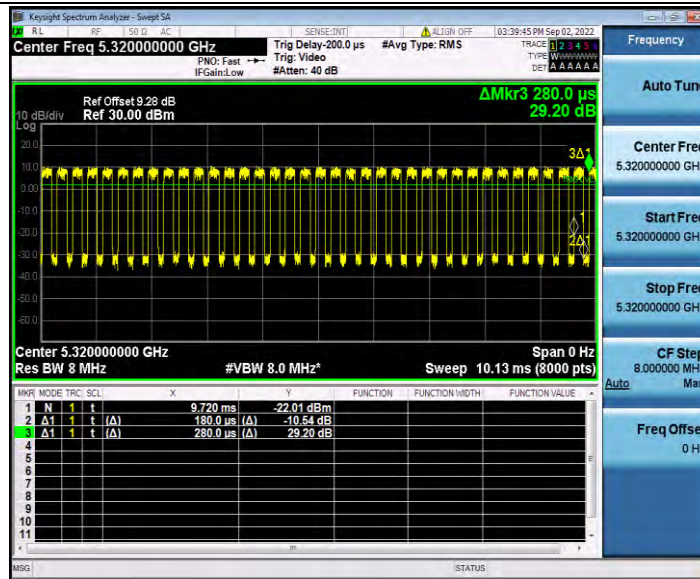
11A_Ant1_5260



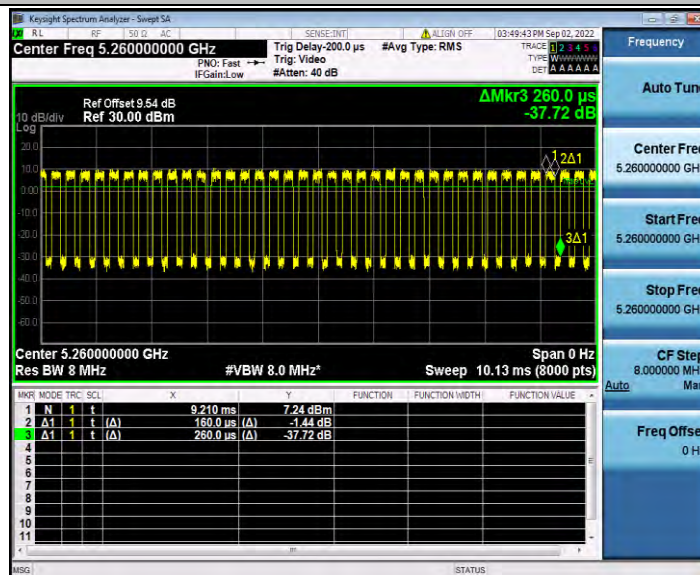
11A_Ant1_5280



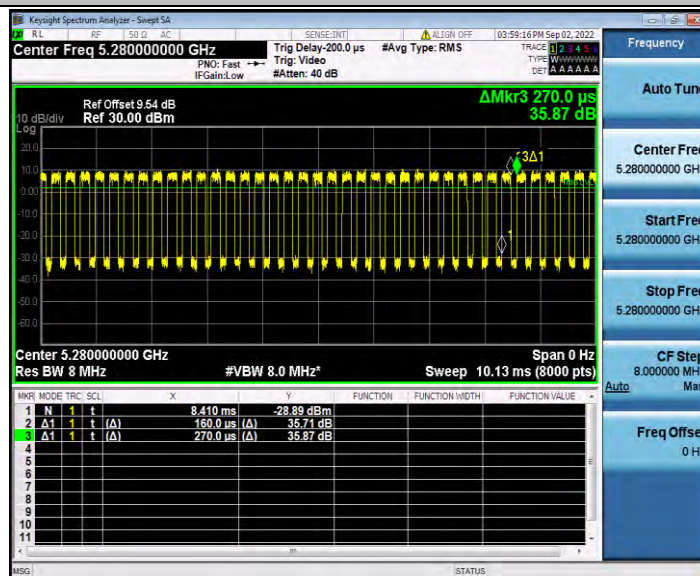
11A_Ant1_5320



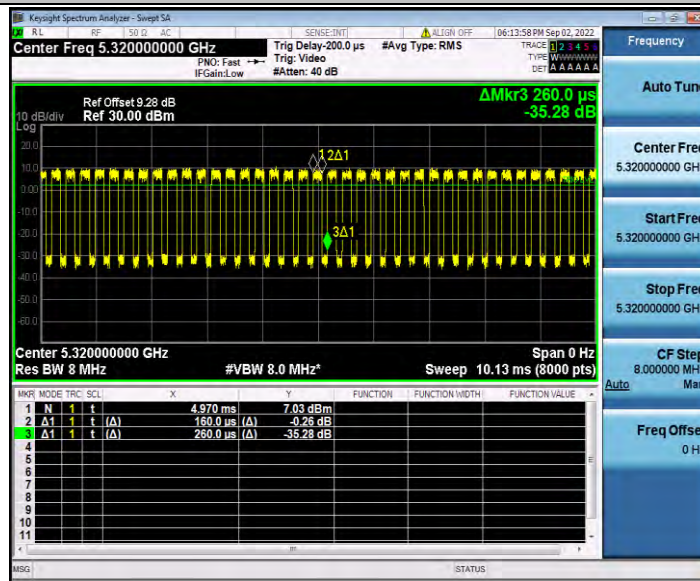
11N20SISO_Ant1_5260



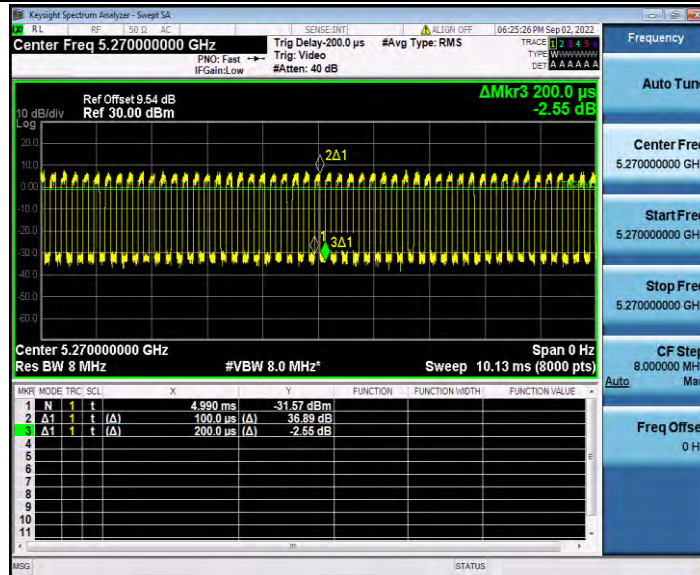
11N20SISO_Ant1_5280



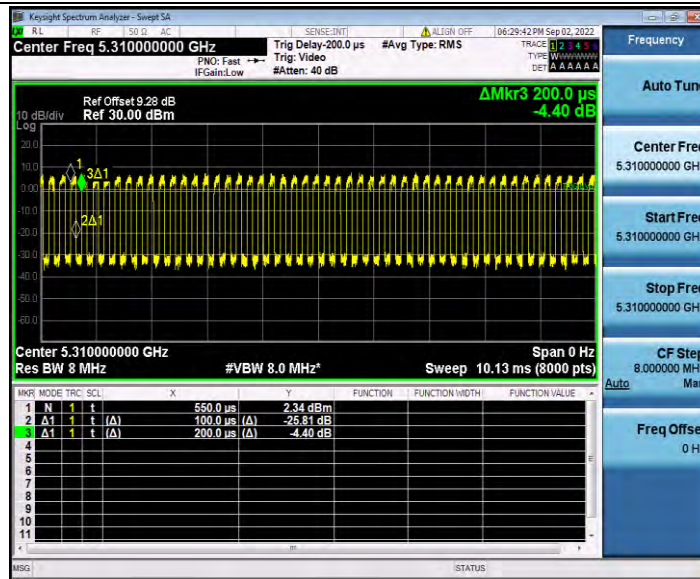
11N20SISO_Ant1_5320



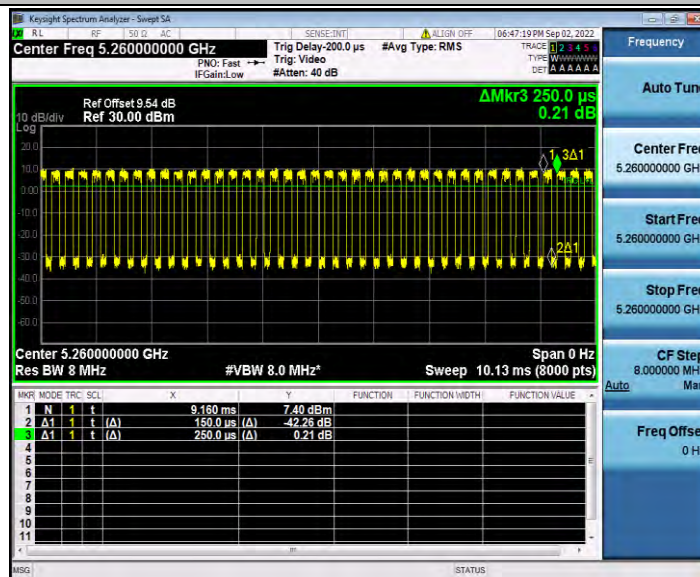
11N40SISO_Ant1_5270



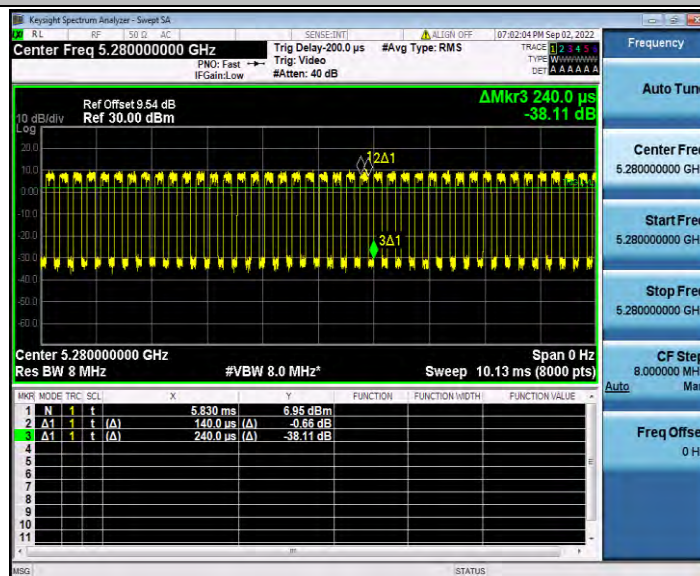
11N40SISO_Ant1_5310



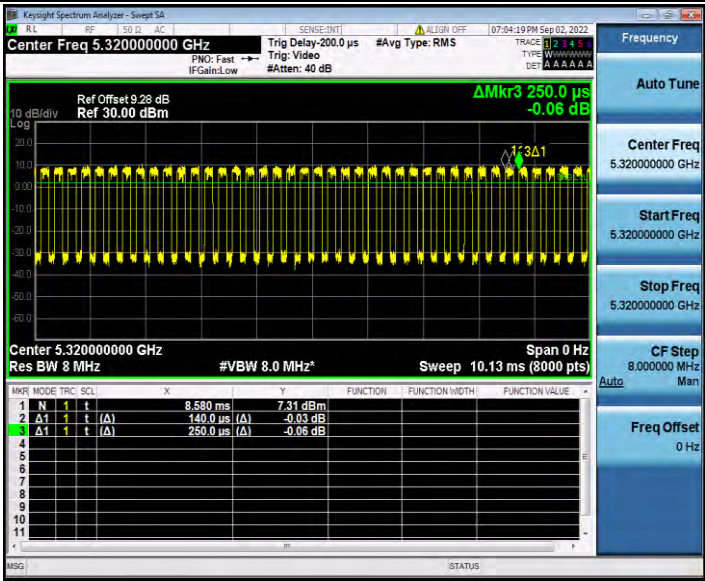
11AC20SISO_Ant1_5260



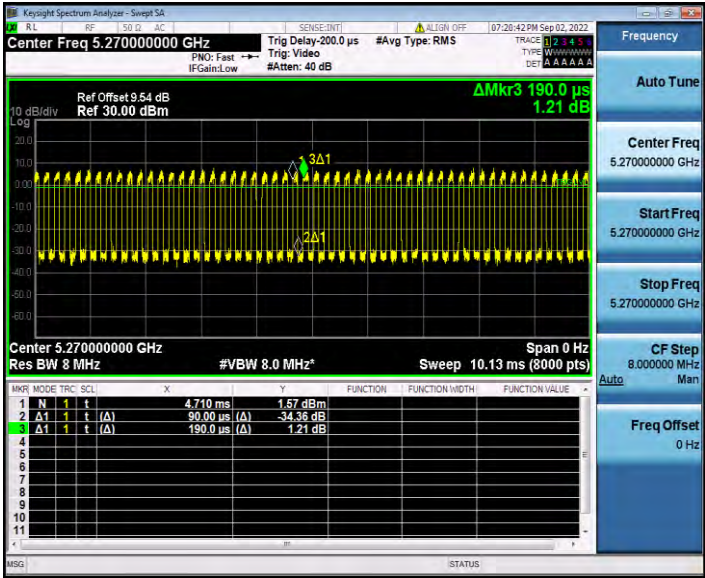
11AC20SISO_Ant1_5280



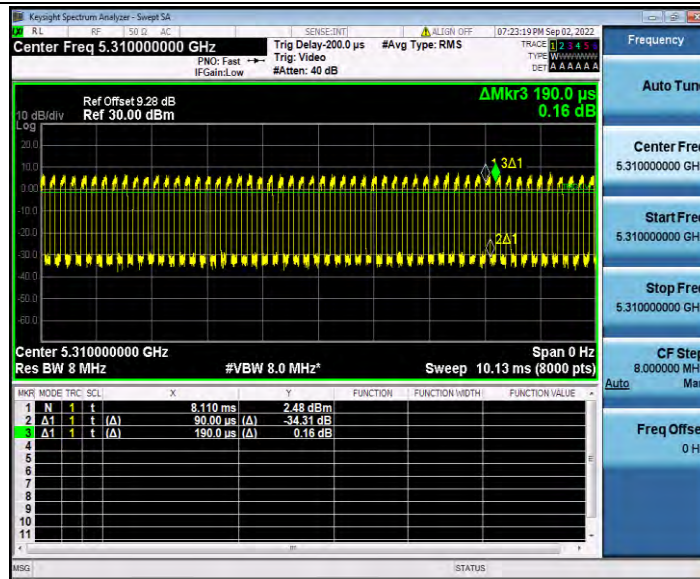
11AC20SISO_Ant1_5320



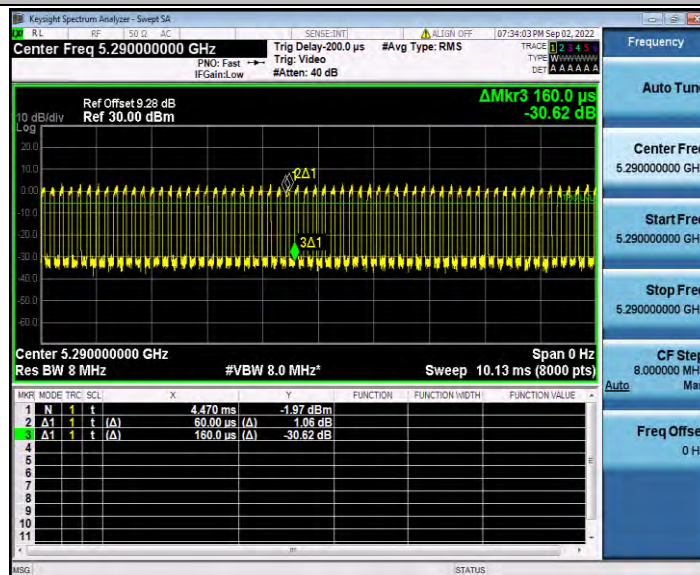
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



Appendix E.4: 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	5260	9.23	64.29	1.92	11.15	≤23.98	PASS
		5280	8.65	64.29	1.92	10.57	≤23.98	PASS
		5320	8.91	64.29	1.92	10.83	≤23.98	PASS
11N20SISO	Ant1	5260	8.90	61.54	2.11	11.01	≤23.98	PASS
		5280	8.68	59.26	2.27	10.95	≤23.98	PASS
		5320	8.62	61.54	2.11	10.73	≤23.98	PASS
11N40SISO	Ant1	5270	8.26	50.00	3.01	11.27	≤23.98	PASS
		5310	8.24	50.00	3.01	11.25	≤23.98	PASS
11AC20SISO	Ant1	5260	9.07	60.00	2.22	11.29	≤23.98	PASS
		5280	8.45	58.33	2.34	10.79	≤23.98	PASS
		5320	8.54	56.00	2.52	11.06	≤23.98	PASS
11AC40SISO	Ant1	5270	7.92	47.37	3.24	11.16	≤23.98	PASS
		5310	7.70	47.37	3.24	10.94	≤23.98	PASS
11AC80SISO	Ant1	5290	6.99	37.50	4.26	11.25	≤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	Ant1	5260	8.43	≤11.00	PASS
		5280	7.55	≤11.00	PASS
		5320	7.6	≤11.00	PASS
11N20SISO	Ant1	5260	8.15	≤11.00	PASS
		5280	7.48	≤11.00	PASS
		5320	8.46	≤11.00	PASS
11N40SISO	Ant1	5270	5.79	≤11.00	PASS
		5310	5.89	≤11.00	PASS
11AC20SISO	Ant1	5260	8.96	≤11.00	PASS
		5280	7.9	≤11.00	PASS
		5320	8.25	≤11.00	PASS
11AC40SISO	Ant1	5270	5.97	≤11.00	PASS
		5310	5.64	≤11.00	PASS
11AC80SISO	Ant1	5290	4.05	≤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_5260



11A_Ant1_5280



11A_Ant1_5320



11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



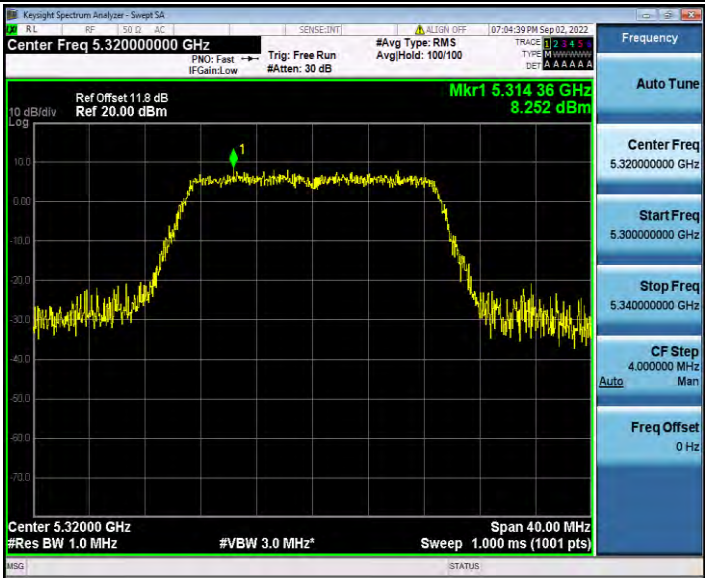
11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



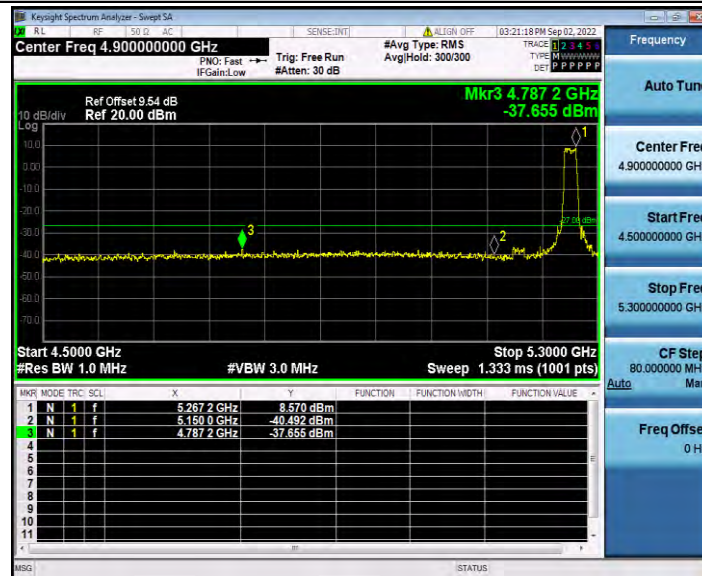
Appendix E.6: Band edge measurements

Test Result B2

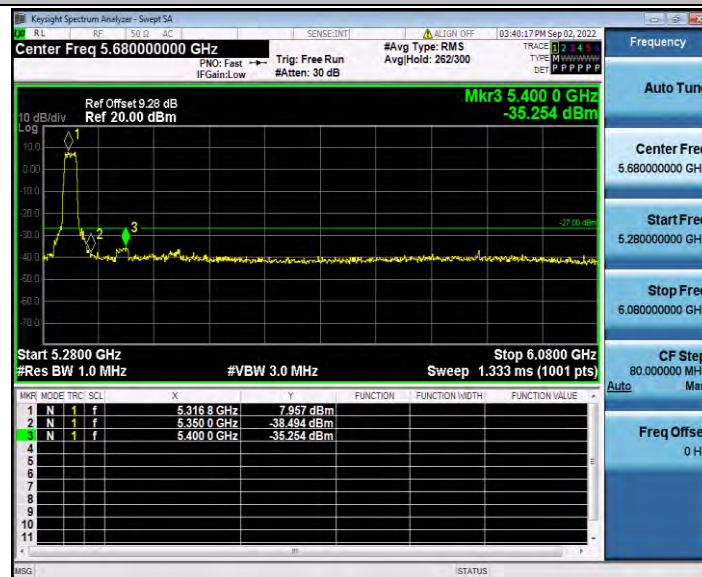
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5260	-37.66	≤-27	PASS
		High	5320	-35.25	≤-27	PASS
11N20SISO	Ant1	Low	5260	-38.1	≤-27	PASS
		High	5320	-33.21	≤-27	PASS
11N40SISO	Ant1	Low	5270	-36.88	≤-27	PASS
		High	5310	-37.57	≤-27	PASS
11AC20SISO	Ant1	Low	5260	-37.57	≤-27	PASS
		High	5320	-35.75	≤-27	PASS
11AC40SISO	Ant1	Low	5270	-37.44	≤-27	PASS
		High	5310	-28.4	≤-27	PASS
11AC80SISO	Ant1	Low	5290	-38.1	≤-27	PASS
		High	5290	-32.87	≤-27	PASS

Test Graphs B2

11A_Ant1_Low_5260



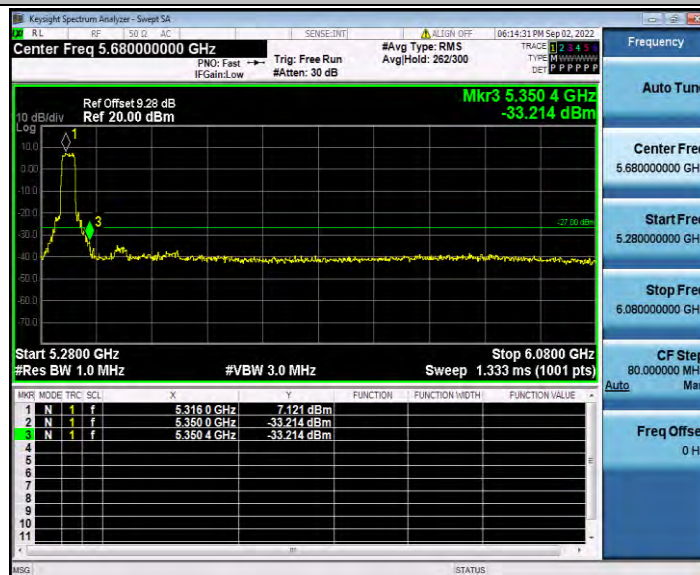
11A_Ant1_High_5320



11N20SISO_Ant1_Low_5260



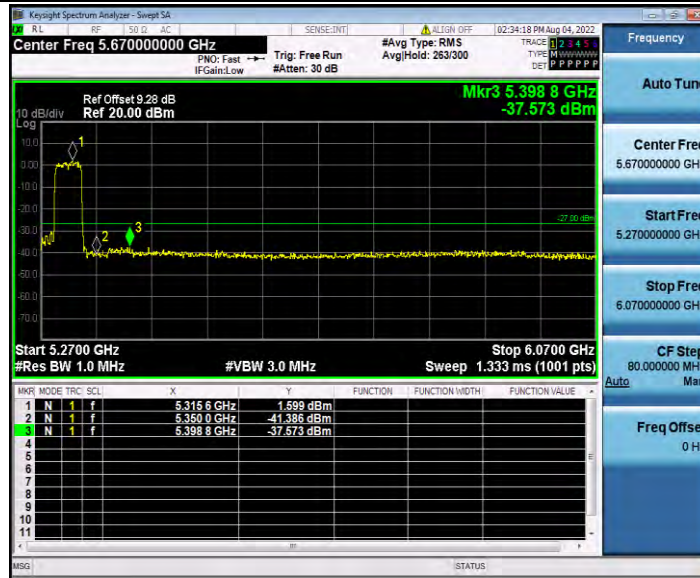
11N20SISO_Ant1_High_5320



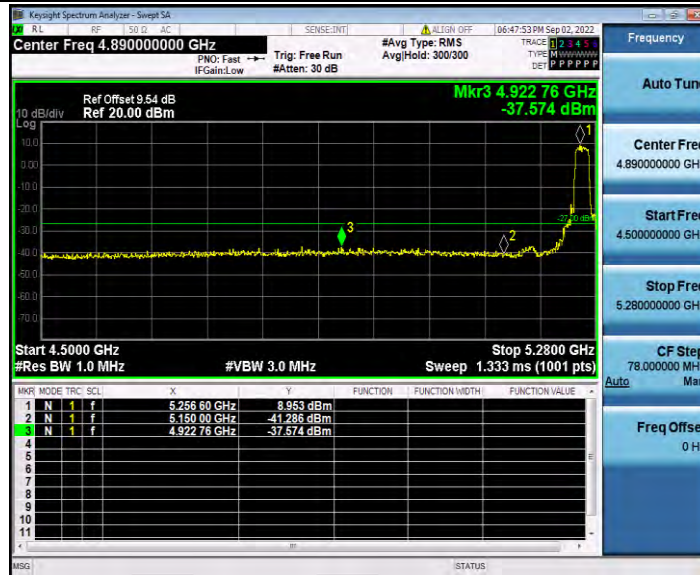
11N40SISO_Ant1_Low_5270



11N40SISO_Ant1_High_5310



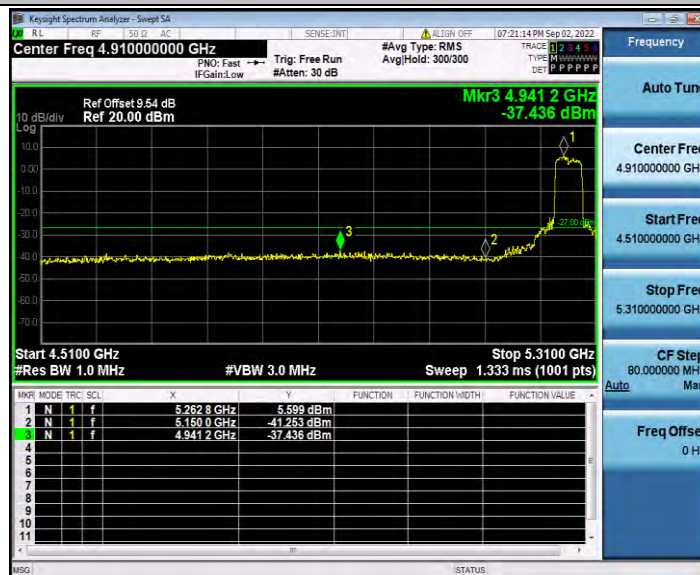
11AC20SISO_Ant1_Low_5260



11AC20SISO_Ant1_High_5320



11AC40SISO_Ant1_Low_5270



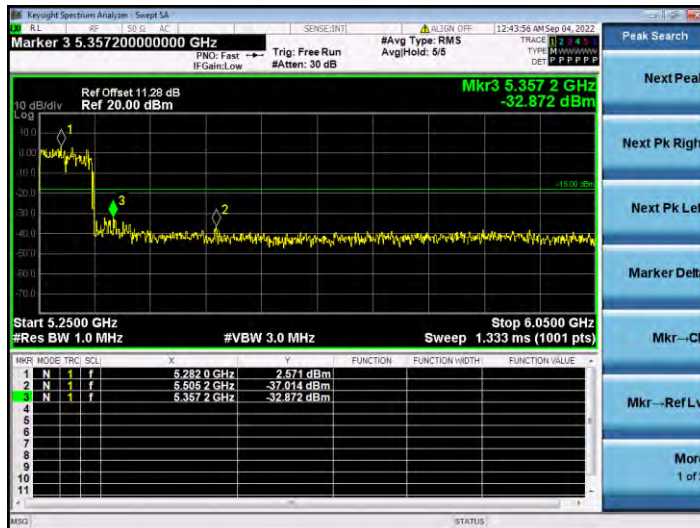
11AC40SISO_Ant1_High_5310



11AC80SISO_Ant1_Low_5290



11AC80SISO_Ant1_High_5290



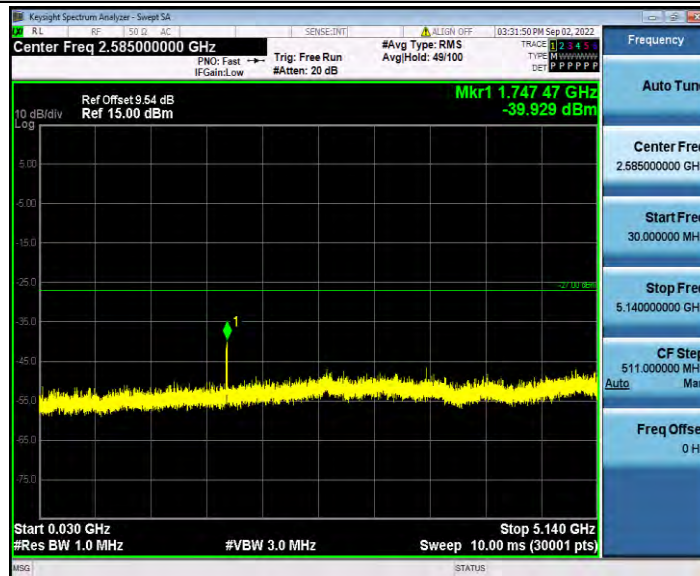
Appendix E.7: Conducted Spurious Emission

Test Result

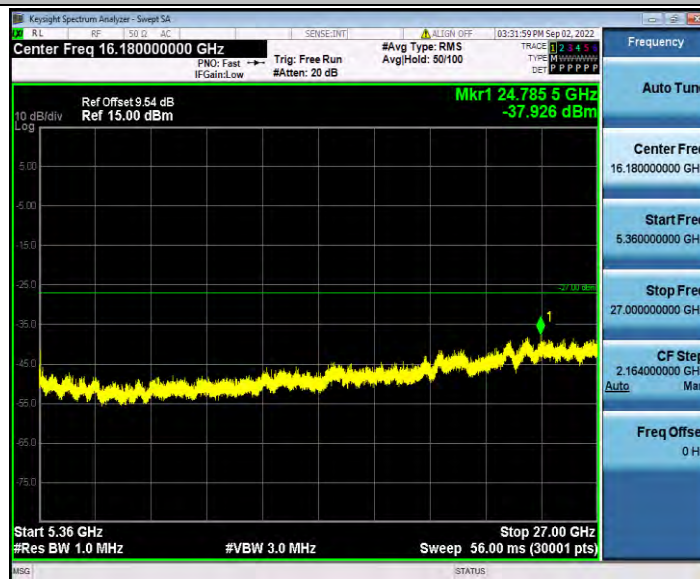
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	30~5140	1747.47	-39.93	≤-27	PASS
			5360~40000	24785.51	-37.93	≤-27	PASS
		5280	30~5140	3030.76	-47.38	≤-27	PASS
			5360~40000	24290.67	-38.1	≤-27	PASS
		5320	30~5140	912.67	-44.34	≤-27	PASS
			5360~40000	5396.79	-36.38	≤-27	PASS
11N20SISO	Ant1	5260	30~5140	3033.66	-47.32	≤-27	PASS
			5360~40000	23567.9	-36.67	≤-27	PASS
		5280	30~5140	4892.34	-46.75	≤-27	PASS
			5360~40000	24269.75	-36.66	≤-27	PASS
		5320	30~5140	2678.34	-47.53	≤-27	PASS
			5360~40000	5398.95	-37.22	≤-27	PASS
11N40SISO	Ant1	5270	30~5140	4830.5	-47.51	≤-27	PASS
			5360~40000	26818.22	-38.22	≤-27	PASS
		5310	30~5140	5108.66	-47.23	≤-27	PASS
			5360~40000	5360.72	-33.54	≤-27	PASS
11AC20SISO	Ant1	5260	30~5140	4942.75	-47.45	≤-27	PASS
			5360~40000	24934.1	-38.25	≤-27	PASS
		5280	30~5140	4922.31	-47.09	≤-27	PASS
			5360~40000	5360	-37.74	≤-27	PASS
		5320	30~5140	4886.88	-48.09	≤-27	PASS
			5360~40000	5388.85	-36.72	≤-27	PASS
11AC40SISO	Ant1	5270	30~5140	3150	-47.31	≤-27	PASS
			5360~40000	24868.46	-38.07	≤-27	PASS
		5310	30~5140	4930.66	-45.83	≤-27	PASS
			5360~40000	5360.72	-36.25	≤-27	PASS
11AC80SISO	Ant1	5290	30~5140	1742.02	-43.94	≤-27	PASS
			5360~40000	5361.44	-31.07	≤-27	PASS

Test Graphs

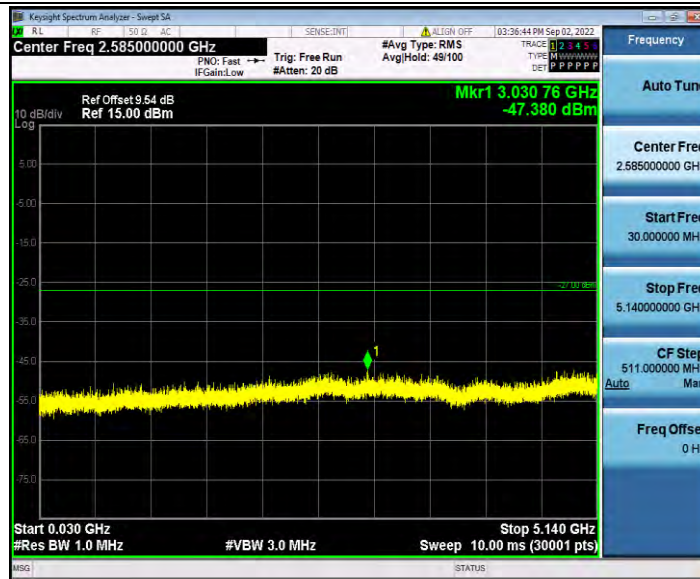
11A_Ant1_5260_30~5140



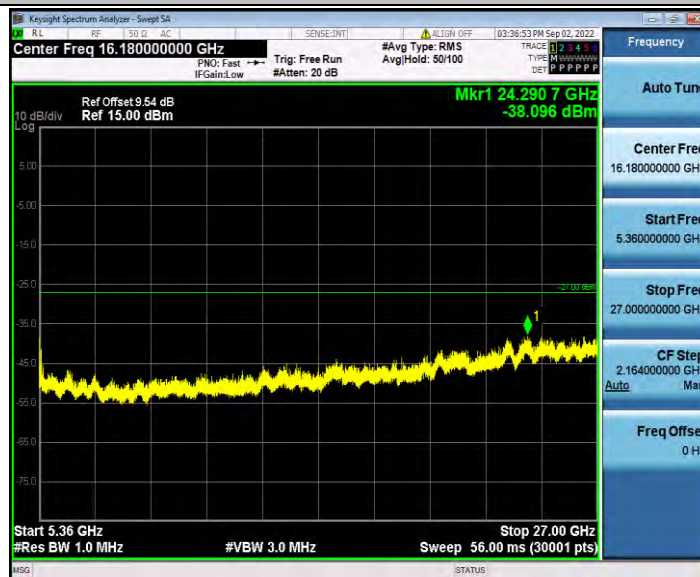
11A_Ant1_5260_5360~40000



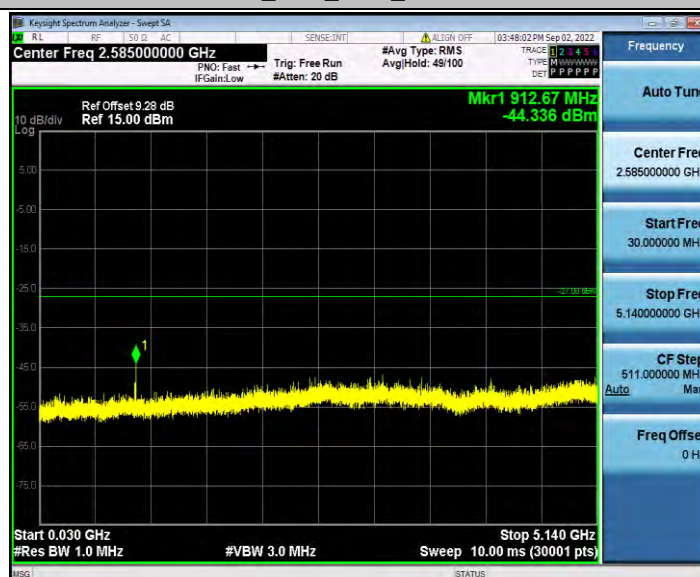
11A_Ant1_5280_30~5140



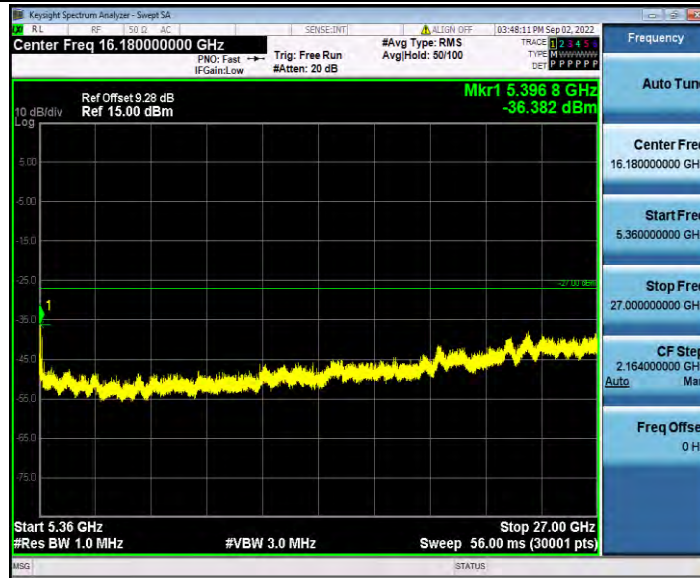
11A_Ant1_5280_5360~40000



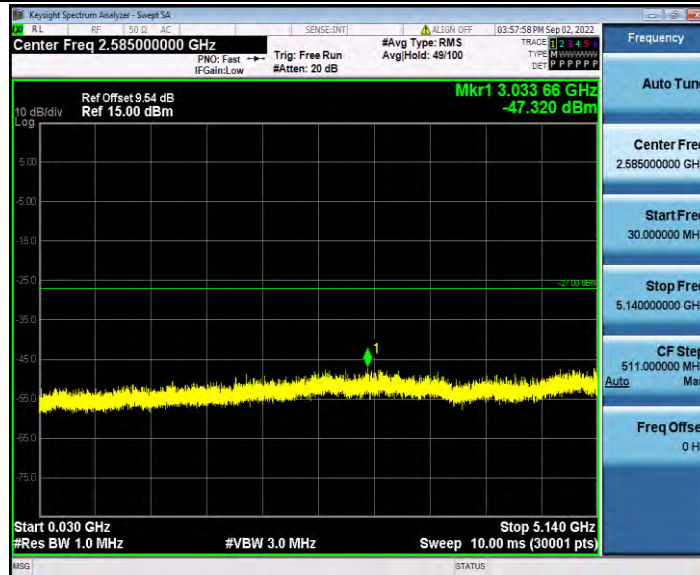
11A_Ant1_5320_30~5140



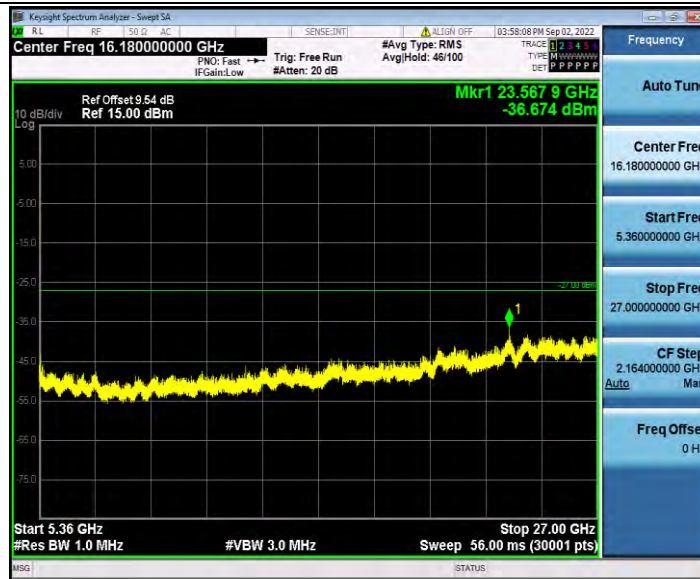
11A_Ant1_5320_5360~40000



11N20SISO_Ant1_5260_30~5140



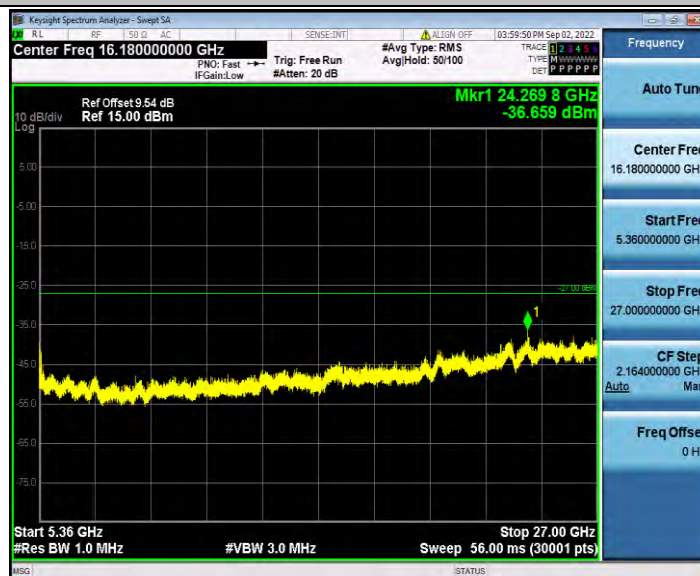
11N20SISO_Ant1_5260_5360~40000



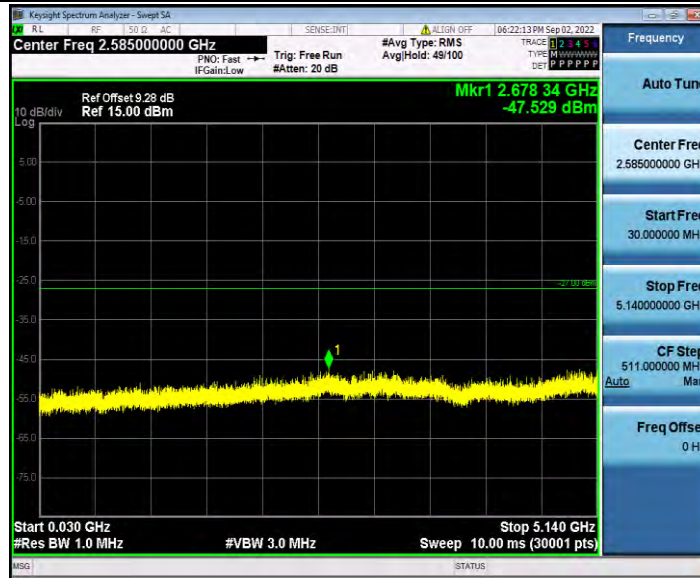
11N20SISO_Ant1_5280_30~5140



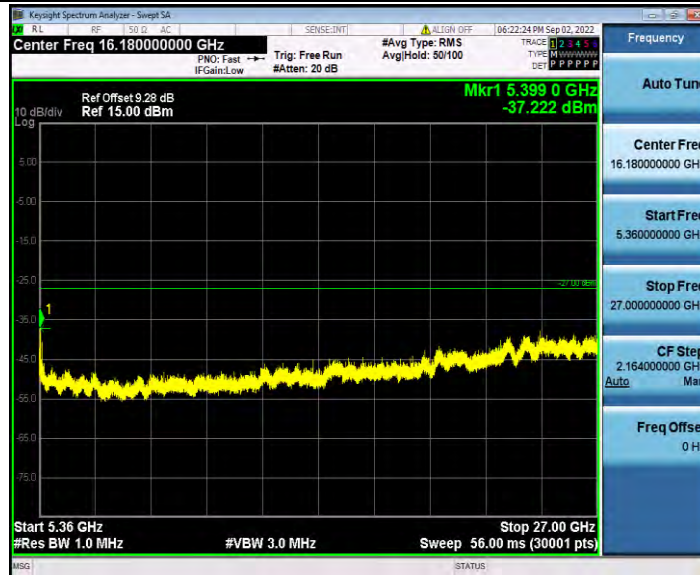
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11N20SISO_Ant1_5320_30~5140



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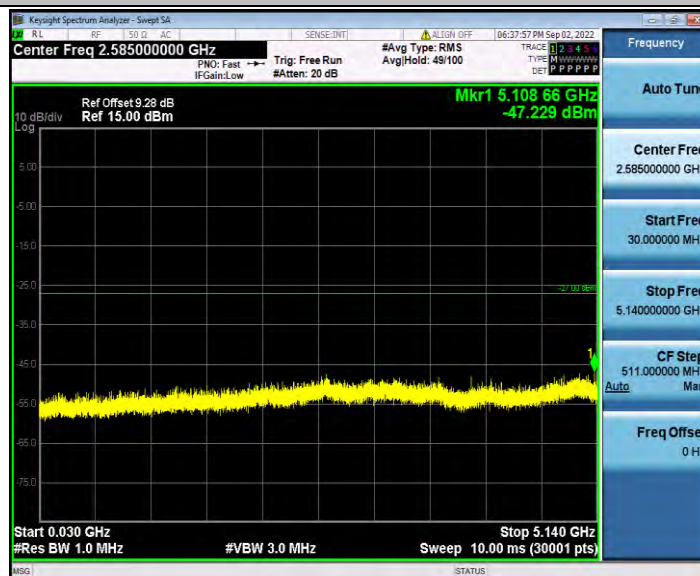
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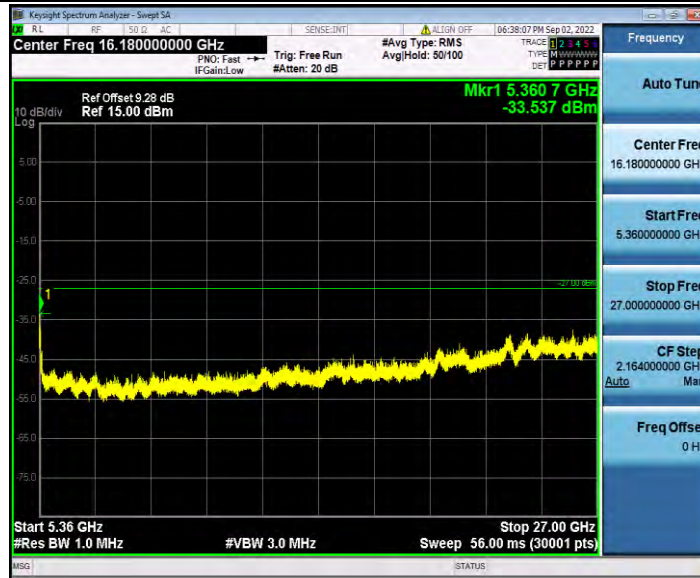
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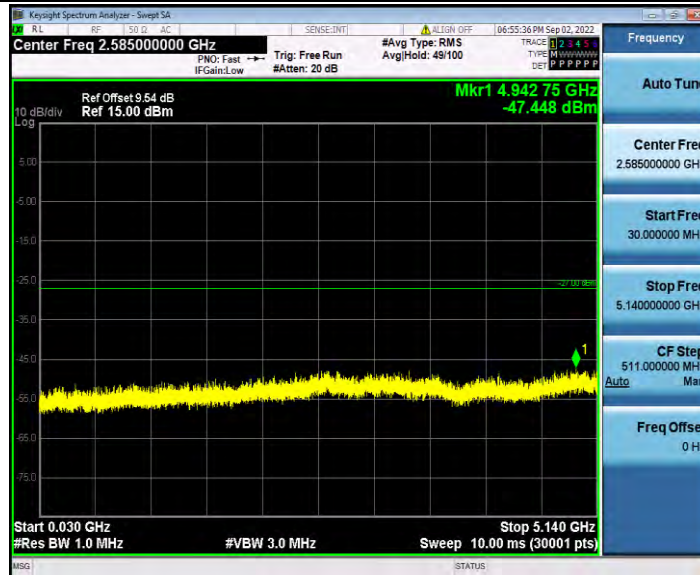
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11N40SISO_Ant1_5310_5360~40000



11AC20SISO_Ant1_5260_30~5140



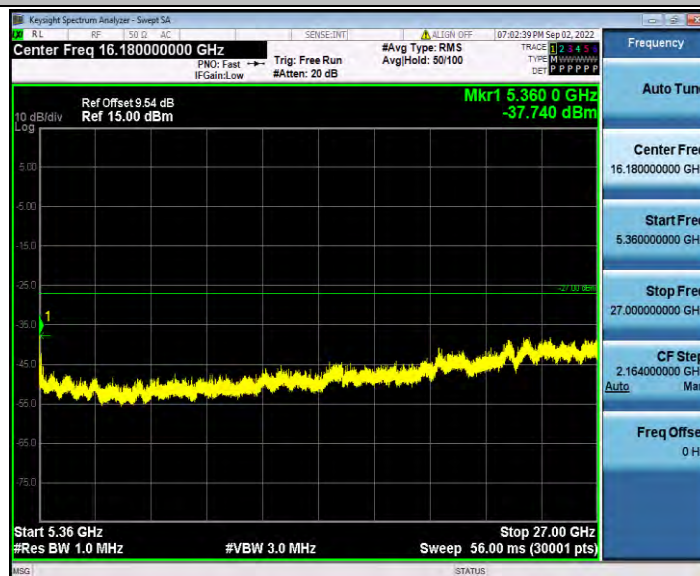
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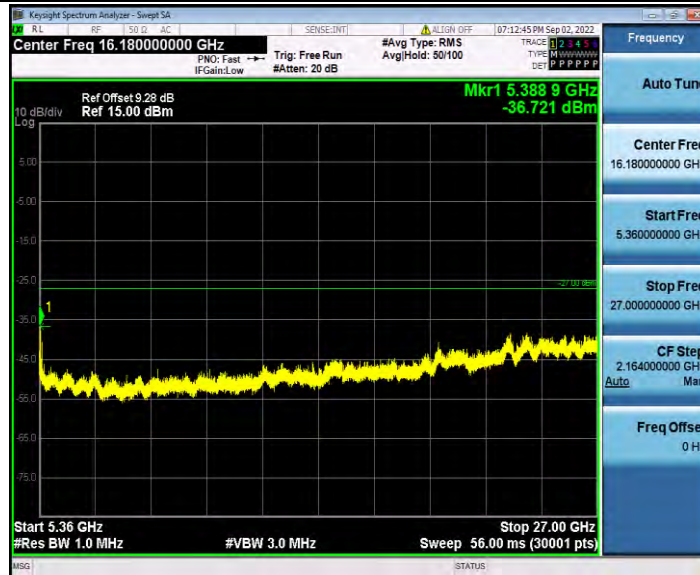
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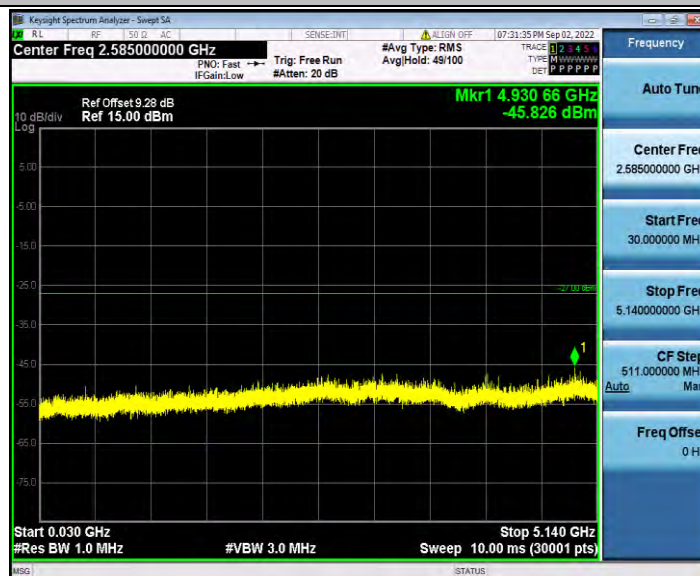
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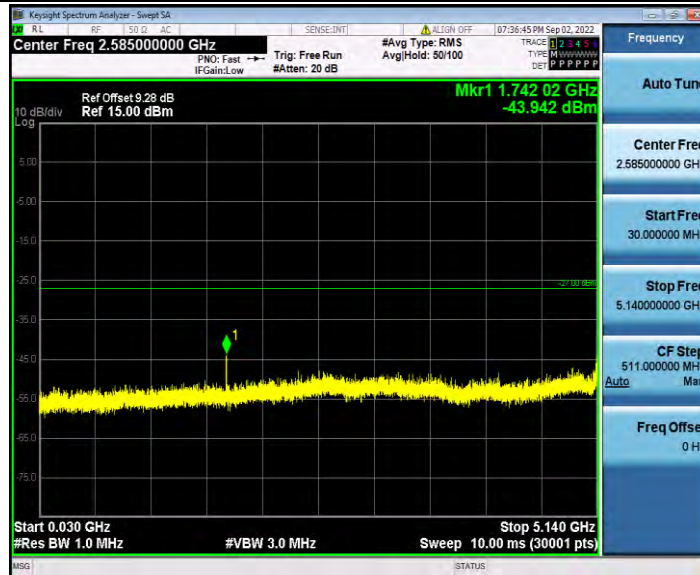
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11AC40SISO_Ant1_5310_5360~40000



11AC80SISO_Ant1_5290_30~5140



11AC80SISO_Ant1_5290_5360~40000

