

Case No. : <u>GTS20230629015-1-13</u>
Ambient Condition: <u>23</u> °C, <u>50</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.7.20</u> Test Engineer: <u>Evan Ouyang</u>

Appendix E.1: Emission Bandwidth

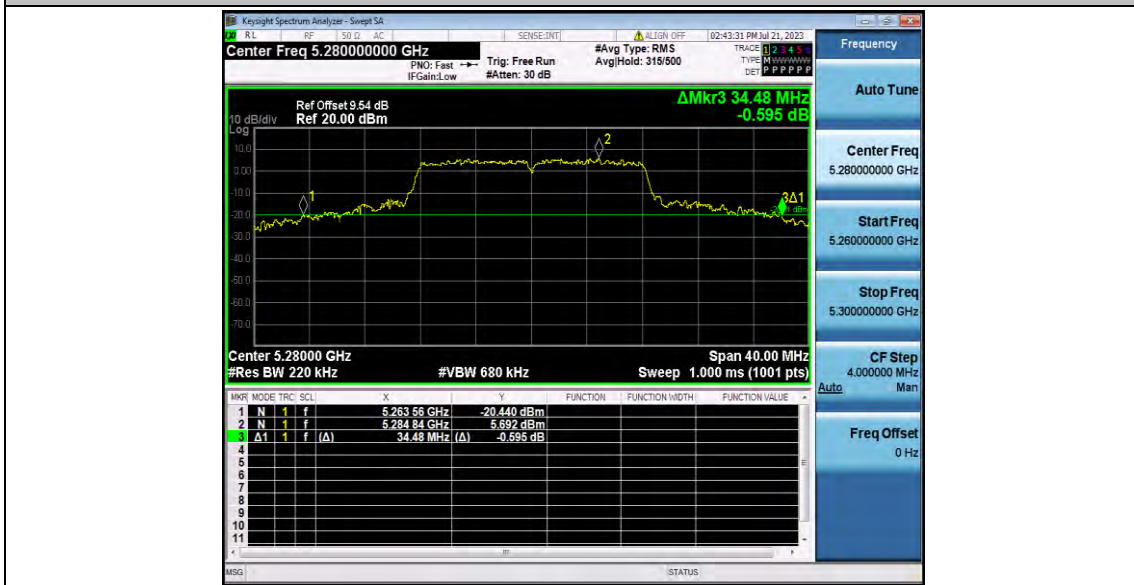
Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5260	32.040	5244.560	5276.600	---	---
		5280	34.480	5263.560	5298.040	---	---
		5320	32.840	5305.120	5337.960	---	---
11N20SISO	Ant2	5260	37.480	5242.360	5279.840	---	---
		5280	26.440	5269.600	5296.040	---	---
		5320	19.480	5310.320	5329.800	---	---
11N40SISO	Ant2	5270	41.040	5249.600	5290.640	---	---
		5310	48.080	5288.880	5336.960	---	---
11AC20SISO	Ant2	5260	19.520	5250.240	5269.760	---	---
		5280	19.520	5270.240	5289.760	---	---
		5320	19.520	5310.280	5329.800	---	---
11AC40SISO	Ant2	5270	41.200	5249.520	5290.720	---	---
		5310	41.040	5289.760	5330.800	---	---
11AC80SISO	Ant2	5290	84.640	5249.680	5334.320	---	---

Test Graphs



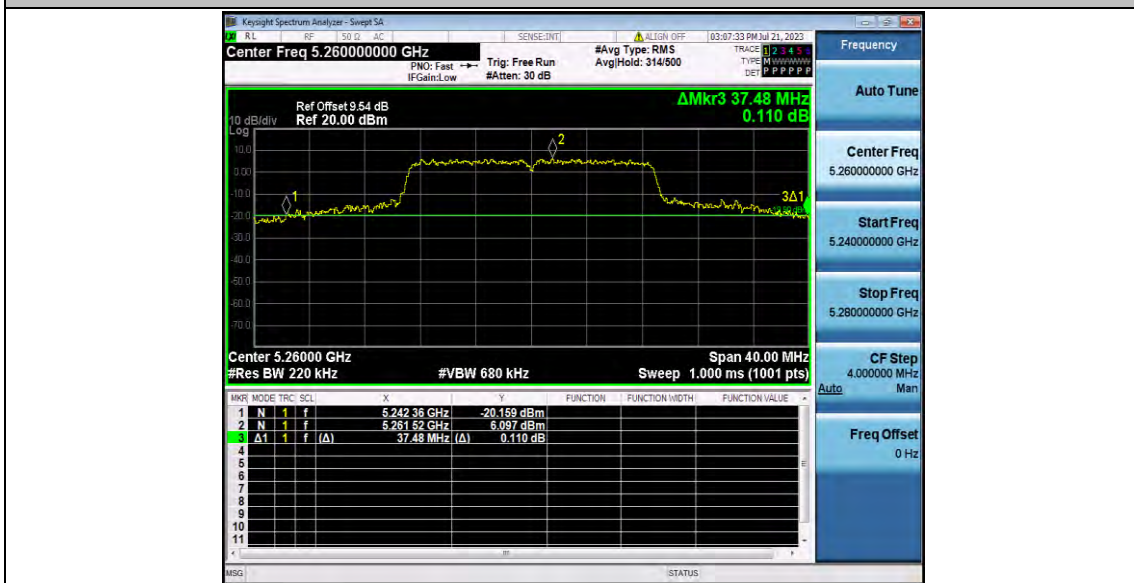
11A_Ant2_5260



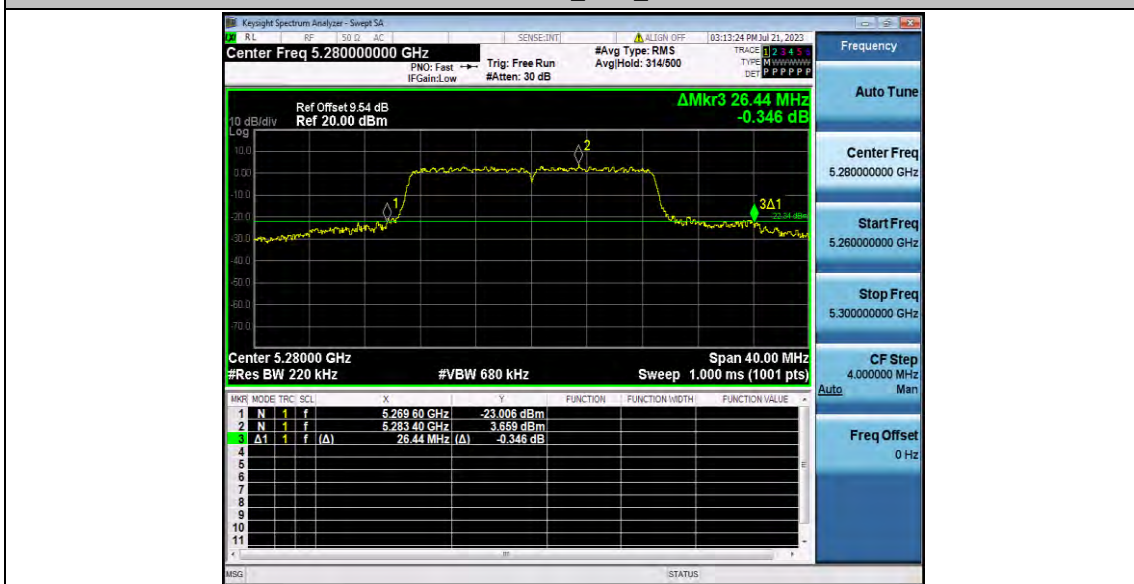
11A_Ant2_5280



11A_Ant2_5320



11N20SISO_Ant2_5260



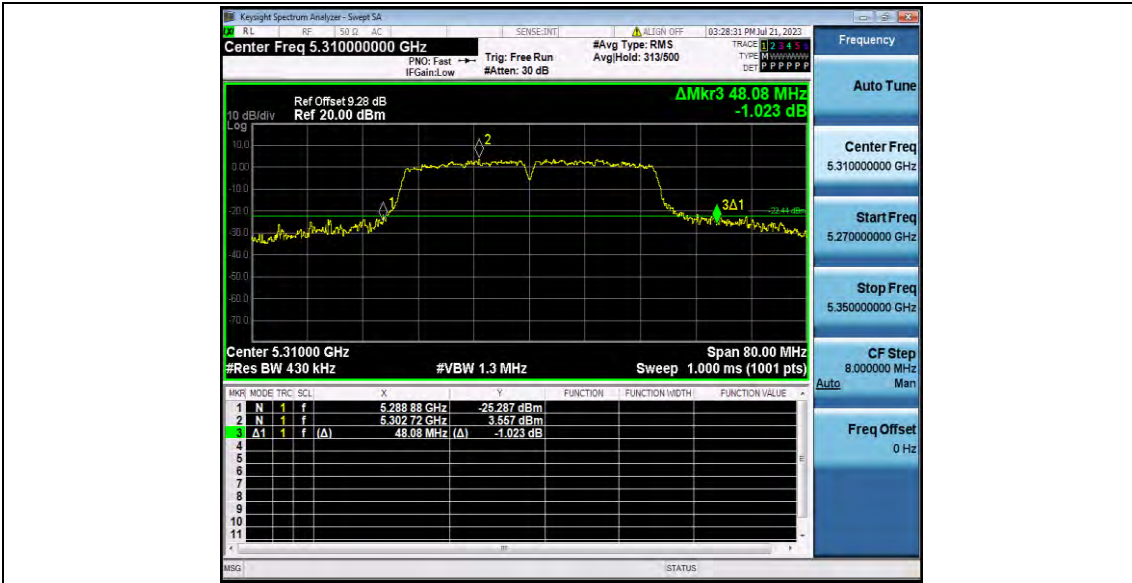
11N20SISO_Ant2_5280



11N20SISO_Ant2_5320



11N40SISO_Ant2_5270



11N40SISO_Ant2_5310



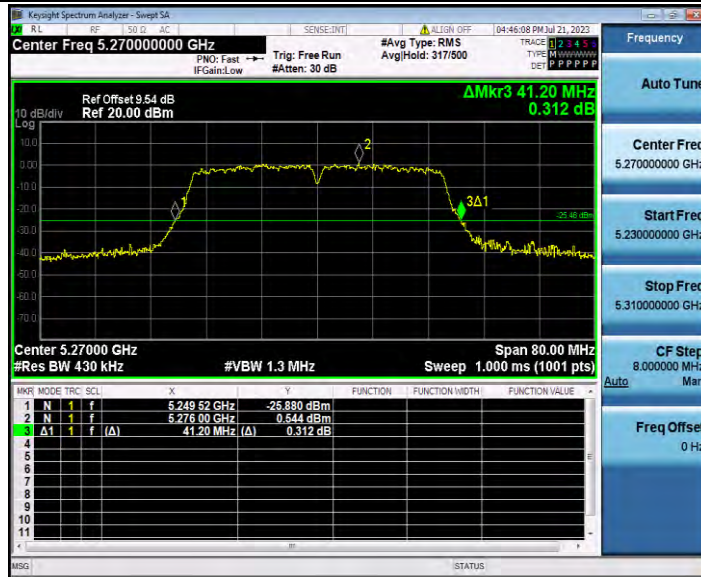
11AC20SISO_Ant2_5260



11AC20SISO_Ant2_5280



11AC20SISO_Ant2_5320



11AC40SISO_Ant2_5270



11AC40SISO_Ant2_5310



11AC80SISO_Ant2_5290

Appendix E.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5260	18.094	5251.242	5269.336	---	---
		5280	19.299	5270.949	5290.248	---	---
		5320	17.758	5311.365	5329.123	---	---
11N20SISO	Ant2	5260	20.332	5250.807	5271.139	---	---
		5280	17.839	5271.175	5289.014	---	---
		5320	17.641	5311.242	5328.883	---	---
11N40SISO	Ant2	5270	36.352	5251.929	5288.281	---	---
		5310	36.567	5291.945	5328.512	---	---
11AC20SISO	Ant2	5260	17.639	5251.209	5268.848	---	---
		5280	17.646	5271.230	5288.876	---	---
		5320	17.652	5311.231	5328.883	---	---
11AC40SISO	Ant2	5270	36.344	5251.928	5288.272	---	---
		5310	36.298	5292.057	5328.355	---	---
11AC80SISO	Ant2	5290	74.727	5252.980	5327.707	---	---

Test Graphs



11A_Ant2_5260



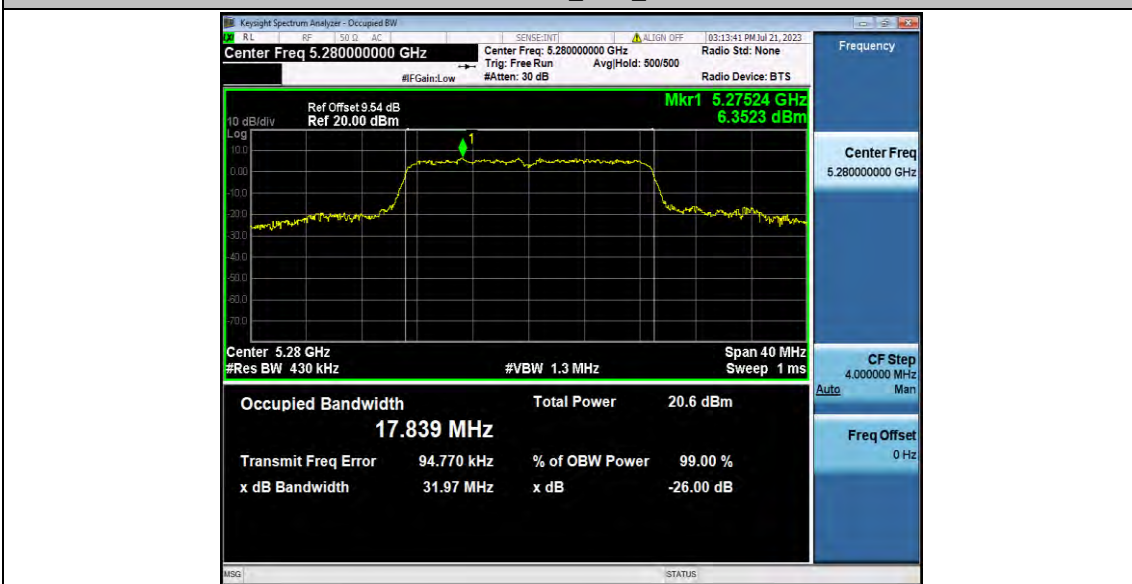
11A_Ant2_5280



11A_Ant2_5320



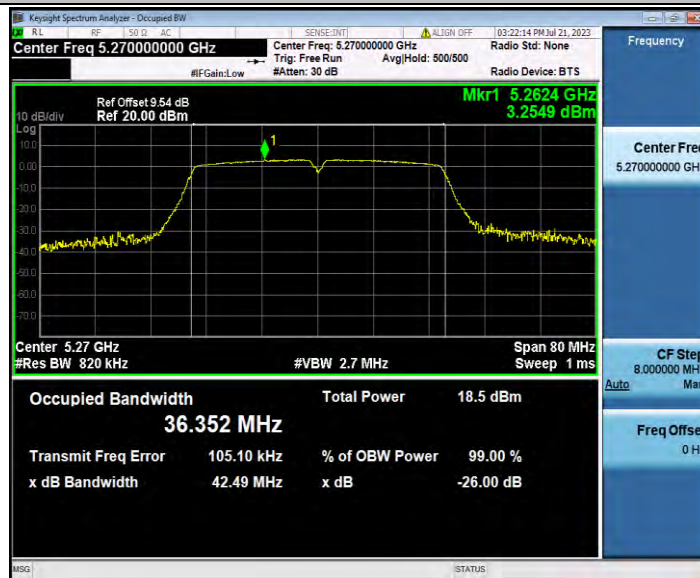
11N20SISO_Ant2_5260



11N20SISO_Ant2_5280



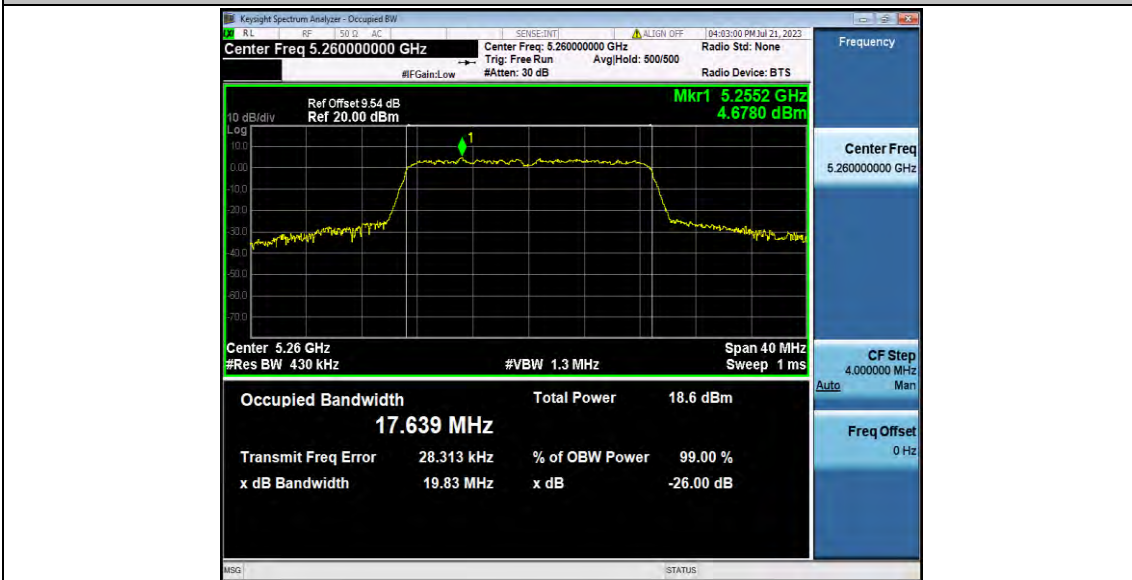
11N20SISO_Ant2_5320



11N40SISO_Ant2_5270



11N40SISO_Ant2_5310



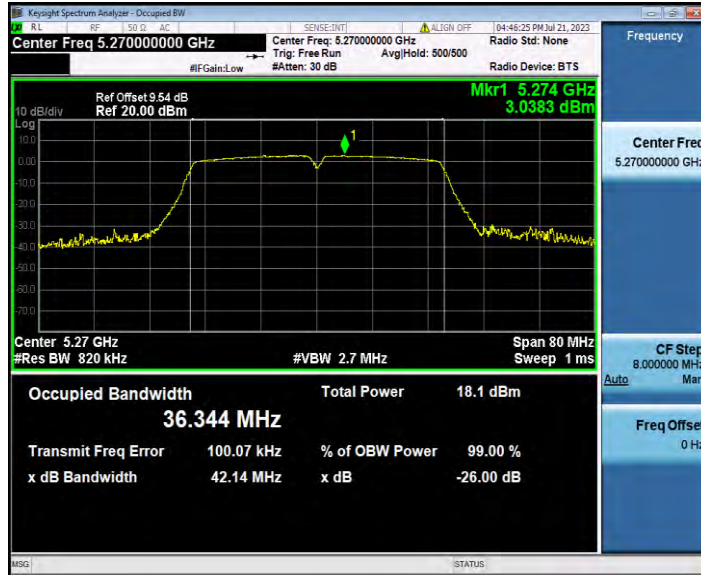
11AC20SISO_Ant2_5260



11AC20SISO_Ant2_5280



11AC20SISO_Ant2_5320



11AC40SISO_Ant2_5270



11AC40SISO_Ant2_5310



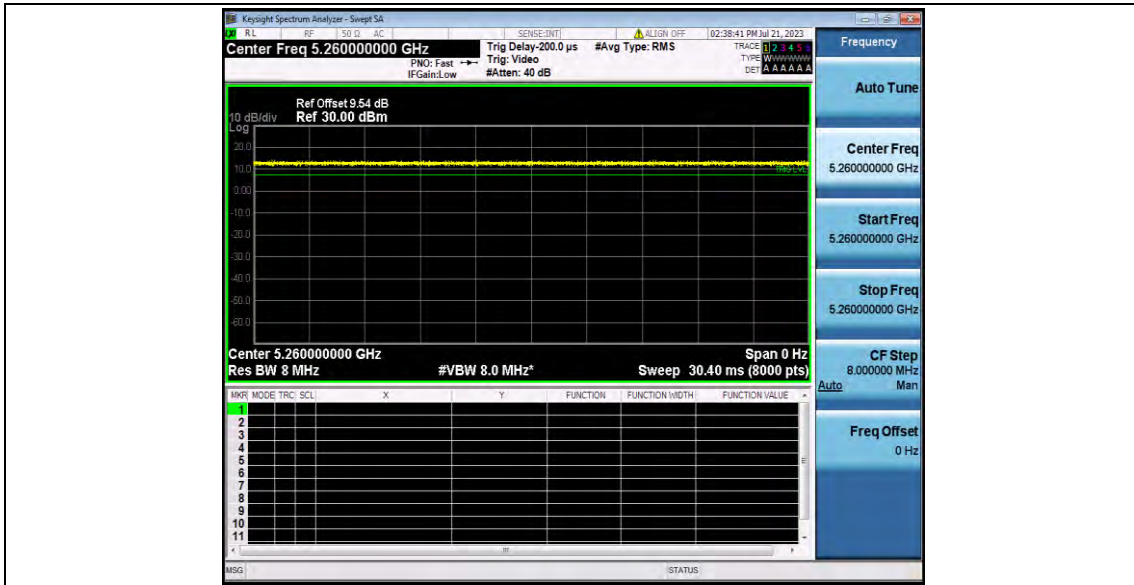
11AC80SISO_Ant2_5290

Appendix E.3: Duty Cycle

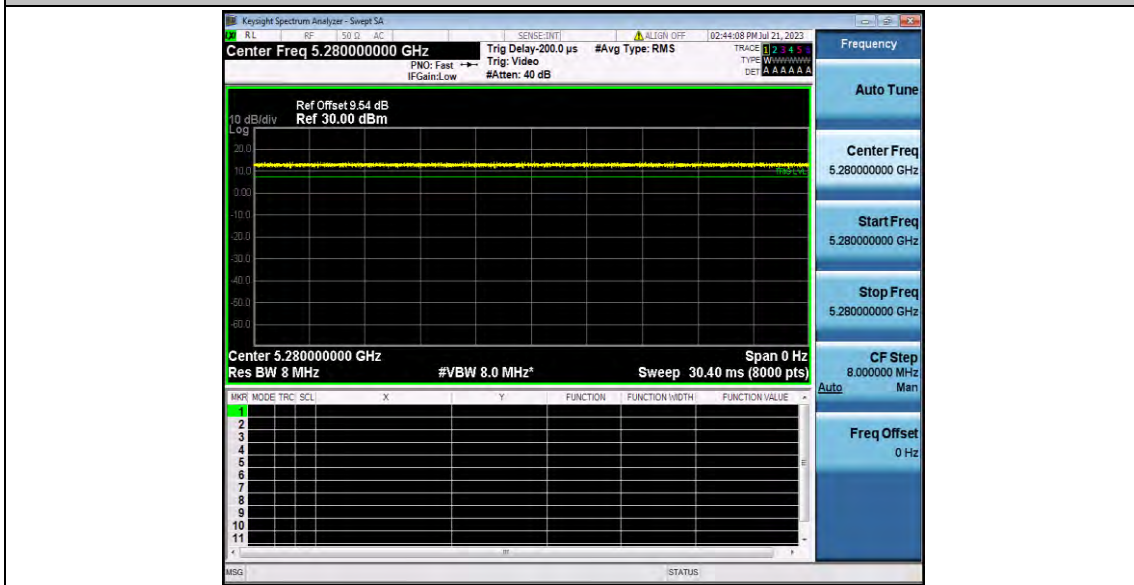
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5260	30.00	30.00	100.00
		5280	30.00	30.00	100.00
		5320	30.00	30.00	100.00
11N20SISO	Ant2	5260	30.00	30.00	100.00
		5280	30.00	30.00	100.00
		5320	30.00	30.00	100.00
11N40SISO	Ant2	5270	30.00	30.00	100.00
		5310	30.00	30.00	100.00
11AC20SISO	Ant2	5260	30.00	30.00	100.00
		5280	30.00	30.00	100.00
		5320	30.00	30.00	100.00
11AC40SISO	Ant2	5270	30.00	30.00	100.00
		5310	30.00	30.00	100.00
11AC80SISO	Ant2	5290	30.00	30.00	100.00

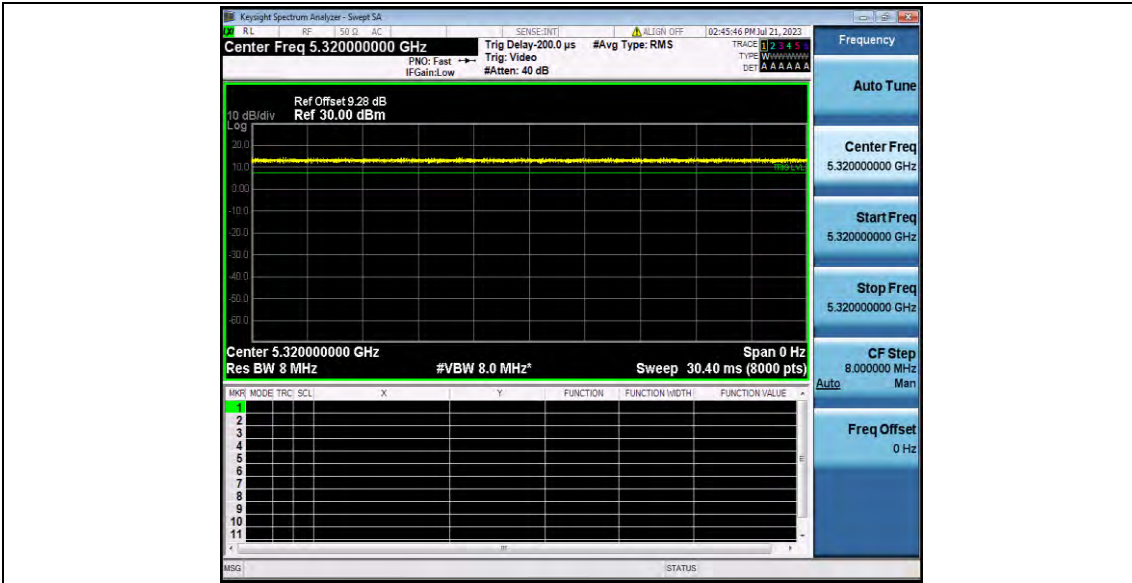
Test Graphs



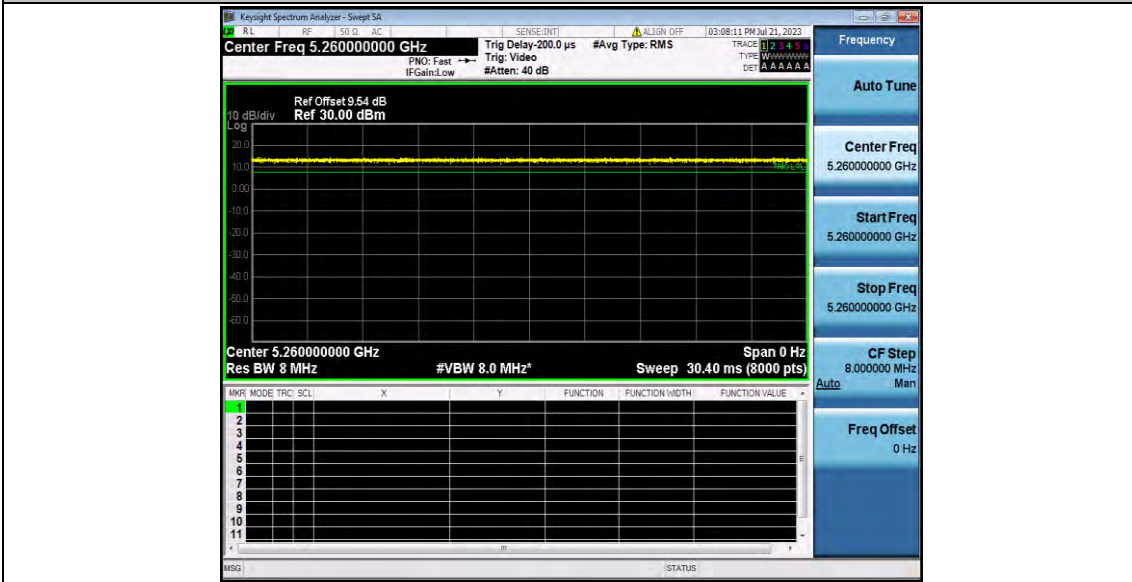
11A_Ant2_5260



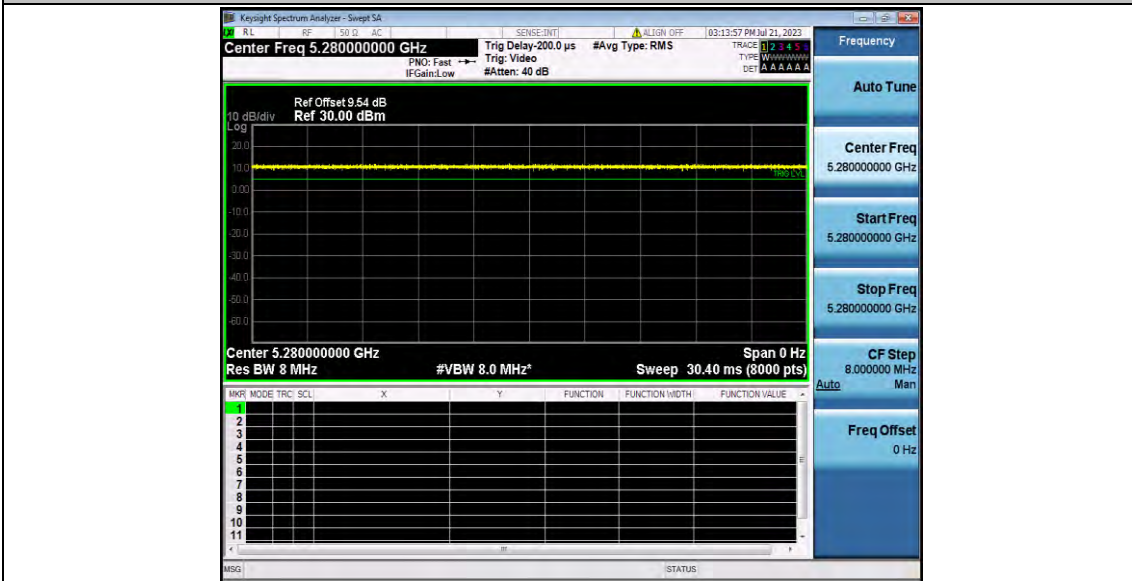
11A_Ant2_5280



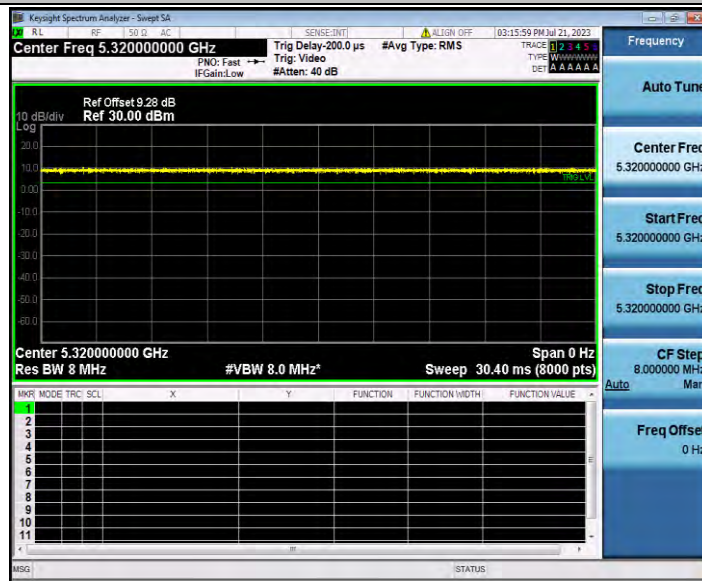
11A_Ant2_5320



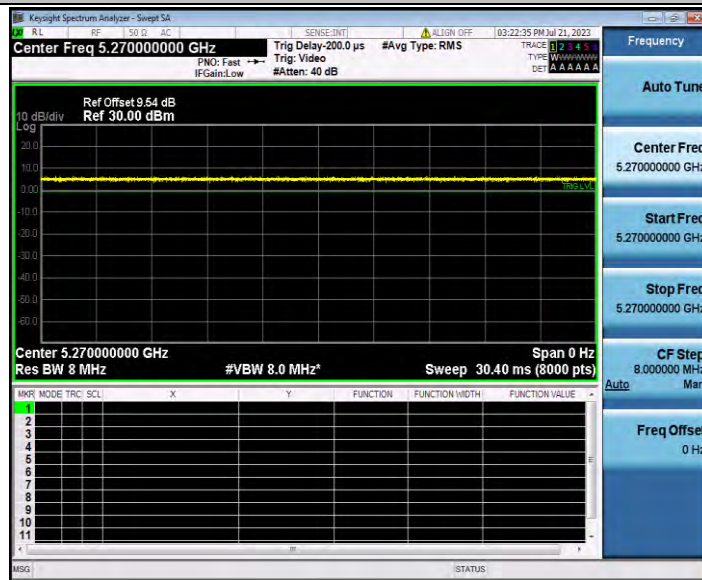
11N20SISO_Ant2_5260



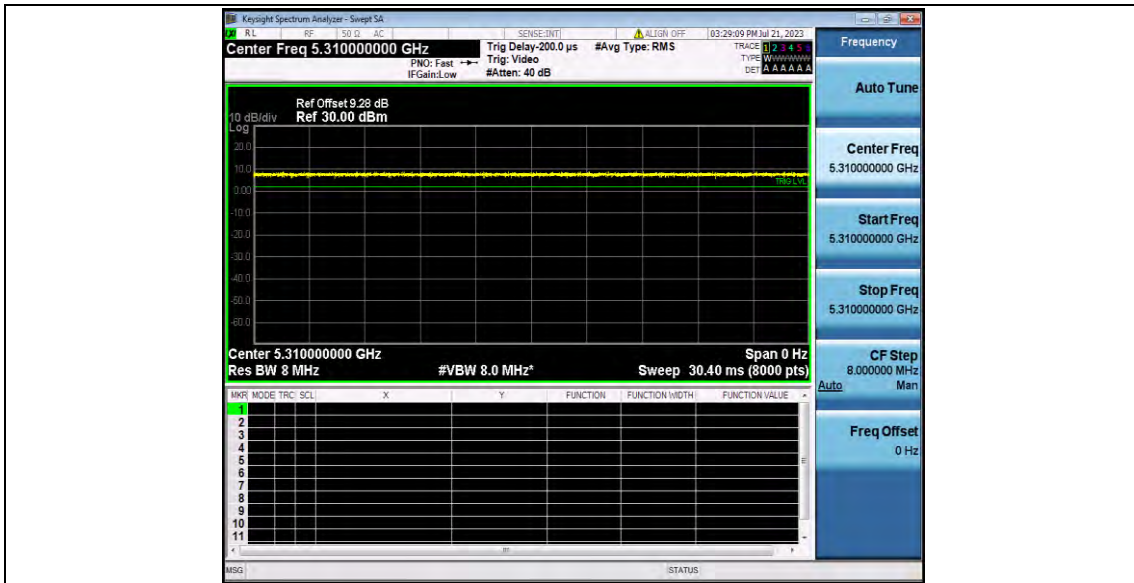
11N20SISO_Ant2_5280



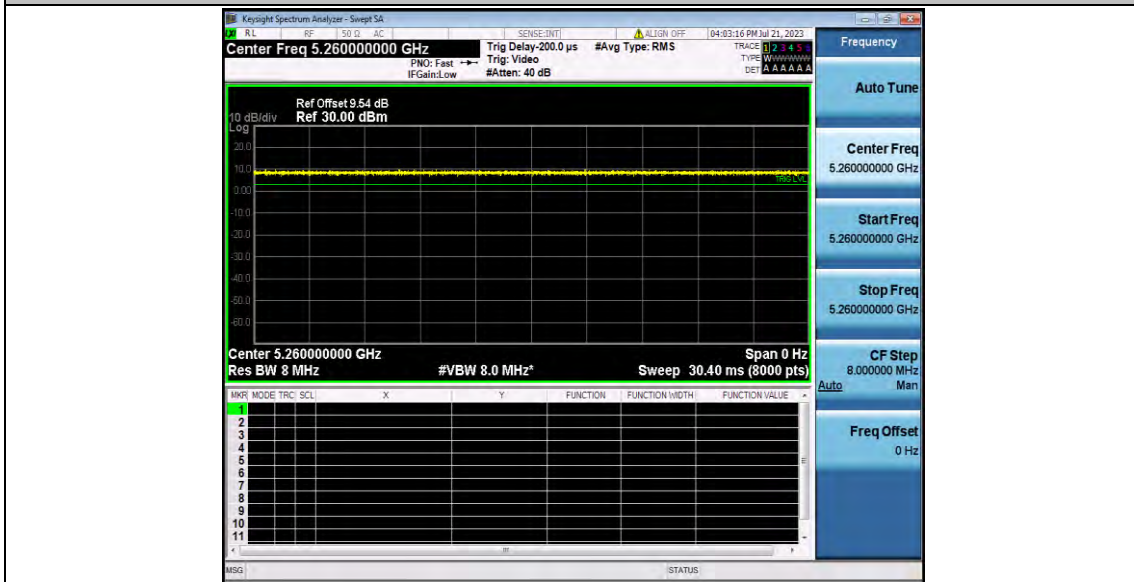
11N20SISO_Ant2_5320



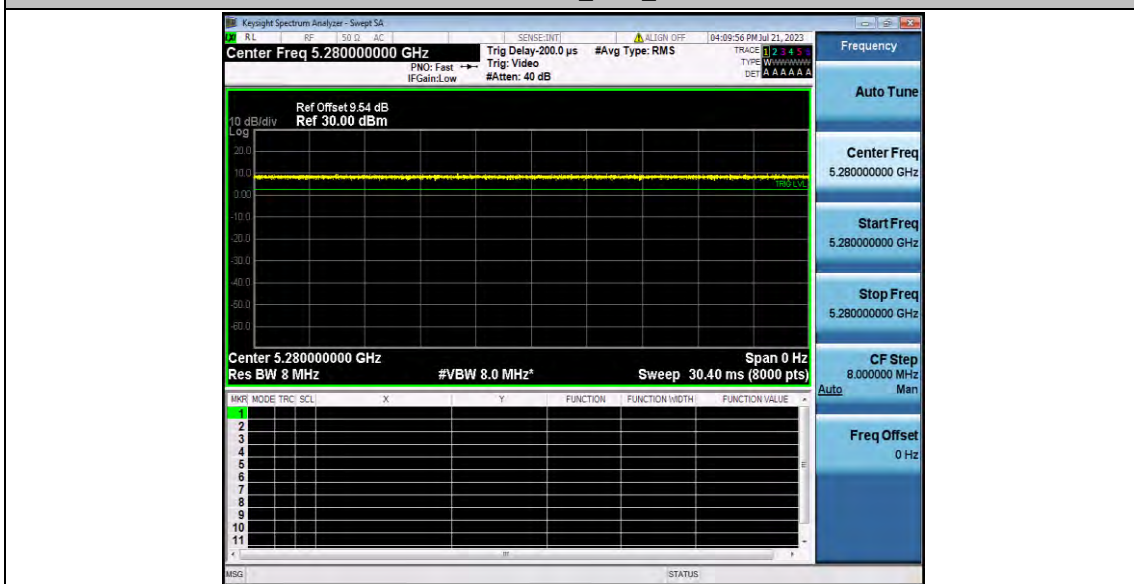
11N40SISO_Ant2_5270



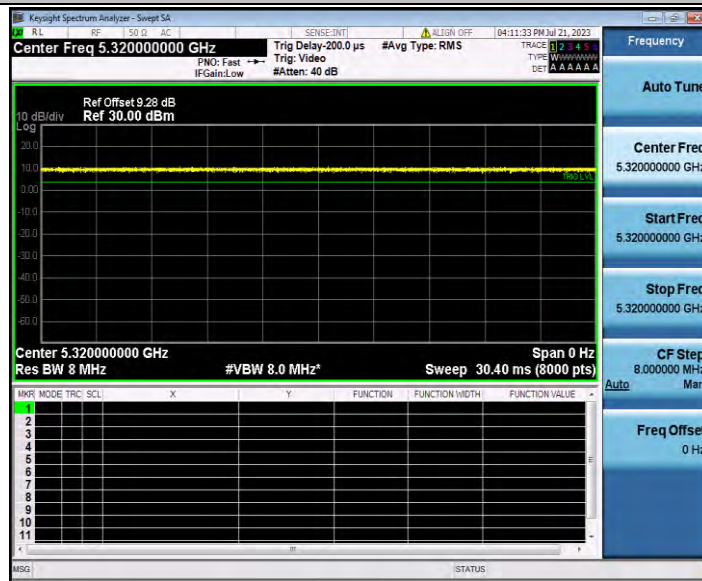
11N40SISO_Ant2_5310



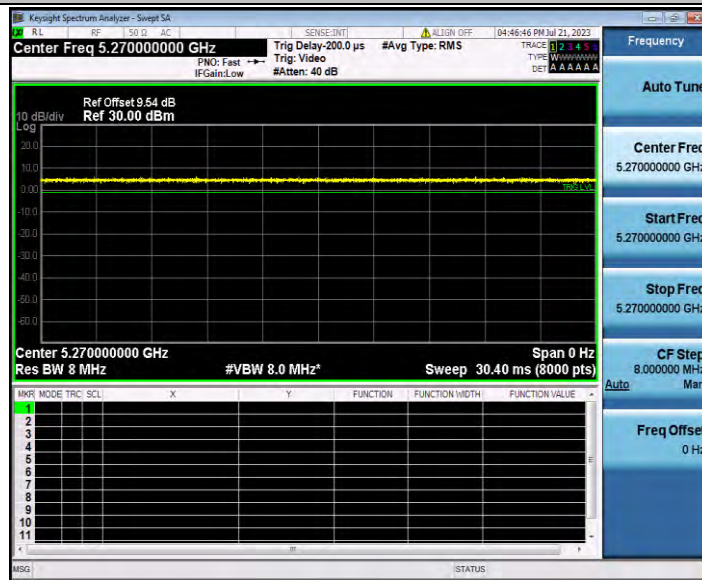
11AC20SISO_Ant2_5260



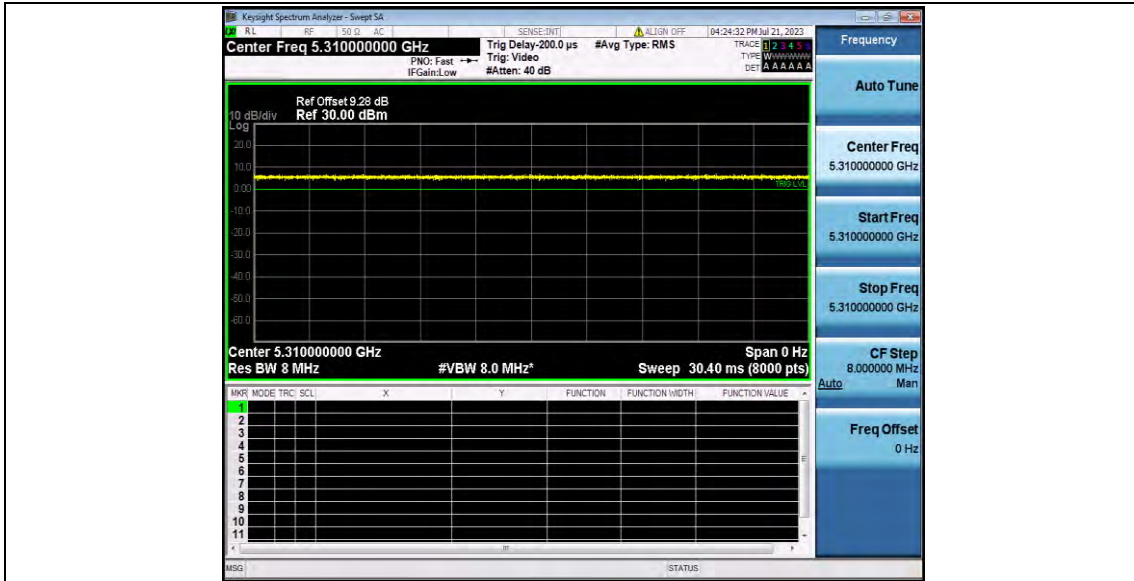
11AC20SISO_Ant2_5280



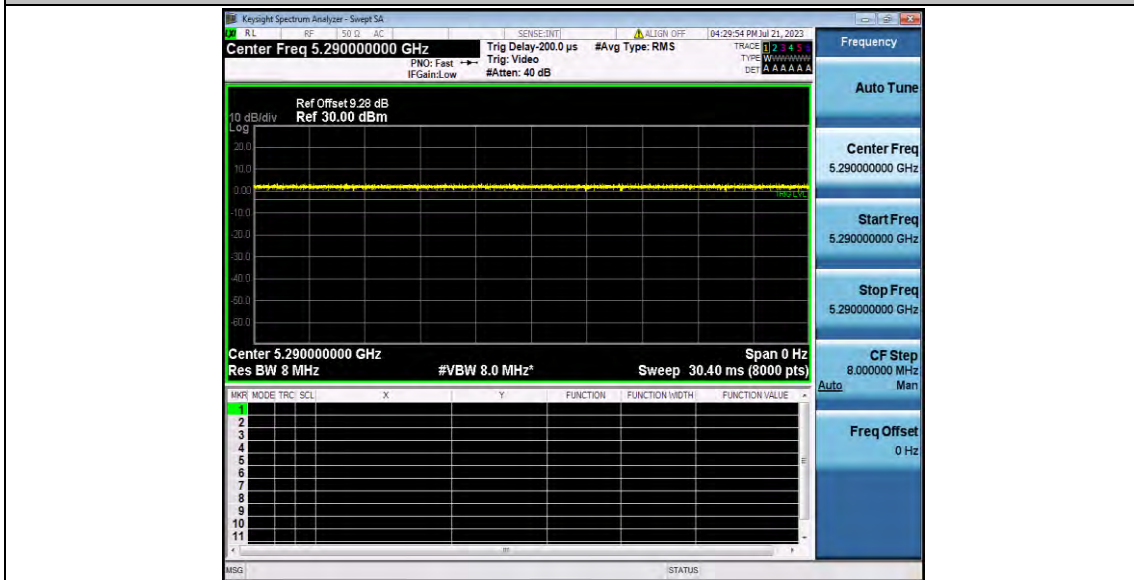
11AC20SISO_Ant2_5320



11AC40SISO_Ant2_5270



11AC40SISO_Ant2_5310



11AC80SISO_Ant2_5290

Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5260	15.84	100.00	0.00	15.84	≤23.98	PASS
		5280	15.99	100.00	0.00	15.99	≤23.98	PASS
		5320	16.12	100.00	0.00	16.12	≤23.98	PASS
11N20SISO	Ant2	5260	16.55	100.00	0.00	16.55	≤23.98	PASS
		5280	13.98	100.00	0.00	13.98	≤23.98	PASS
		5320	12.19	100.00	0.00	12.19	≤23.90	PASS
11N40SISO	Ant2	5270	11.28	100.00	0.00	11.28	≤23.98	PASS
		5310	13.74	100.00	0.00	13.74	≤23.98	PASS
11AC20SISO	Ant2	5260	11.78	100.00	0.00	11.78	≤23.90	PASS
		5280	11.63	100.00	0.00	11.63	≤23.90	PASS
		5320	12.56	100.00	0.00	12.56	≤23.90	PASS
11AC40SISO	Ant2	5270	10.80	100.00	0.00	10.80	≤23.98	PASS
		5310	11.66	100.00	0.00	11.66	≤23.98	PASS
11AC80SISO	Ant2	5290	11.91	100.00	0.00	11.91	≤23.98	PASS

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

Appendix E.5: Maximum power spectral density

Test Result

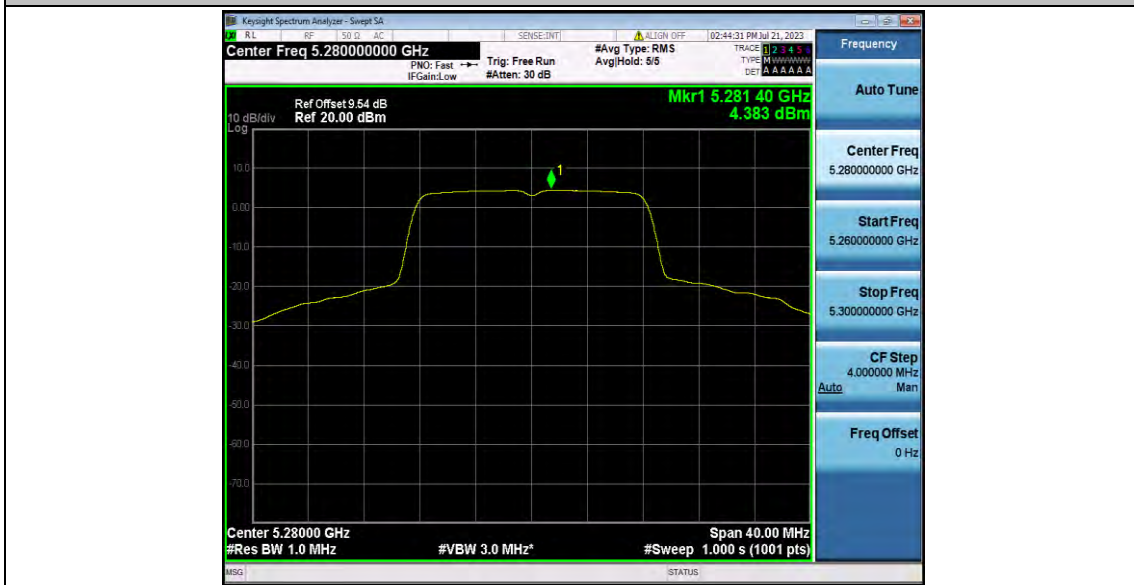
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5260	4.19	≤11.00	PASS
		5280	4.38	≤11.00	PASS
		5320	4.57	≤11.00	PASS
11N20SISO	Ant2	5260	4.61	≤11.00	PASS
		5280	2.16	≤11.00	PASS
		5320	0.53	≤11.00	PASS
11N40SISO	Ant2	5270	-3.18	≤11.00	PASS
		5310	-0.55	≤11.00	PASS
11AC20SISO	Ant2	5260	-0.26	≤11.00	PASS
		5280	-0.23	≤11.00	PASS
		5320	0.77	≤11.00	PASS
11AC40SISO	Ant2	5270	-3.67	≤11.00	PASS
		5310	-2.59	≤11.00	PASS
11AC80SISO	Ant2	5290	-5.57	≤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



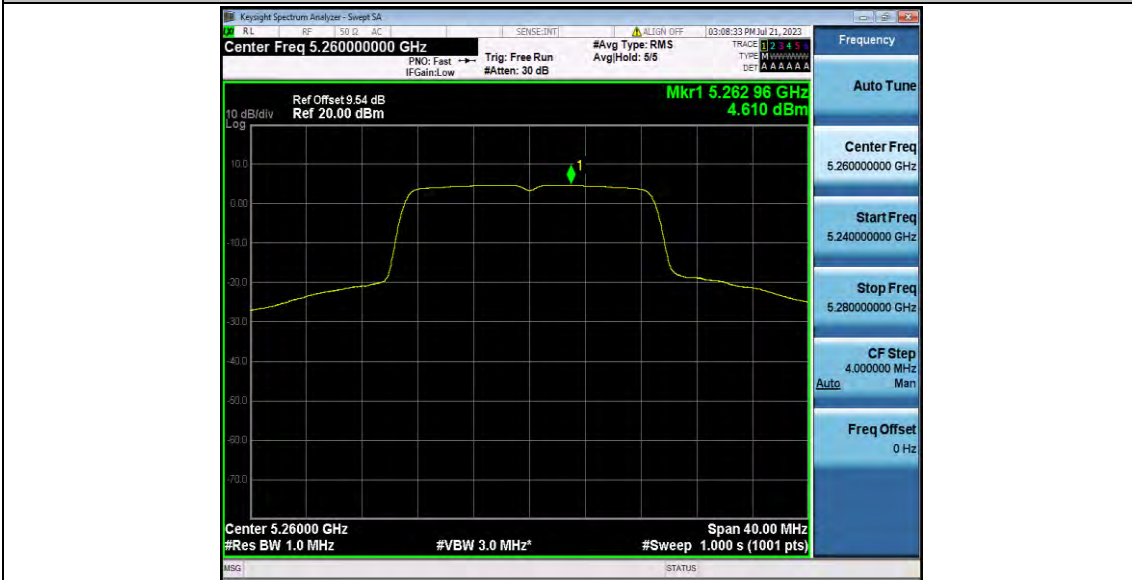
11A_Ant2_5260



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



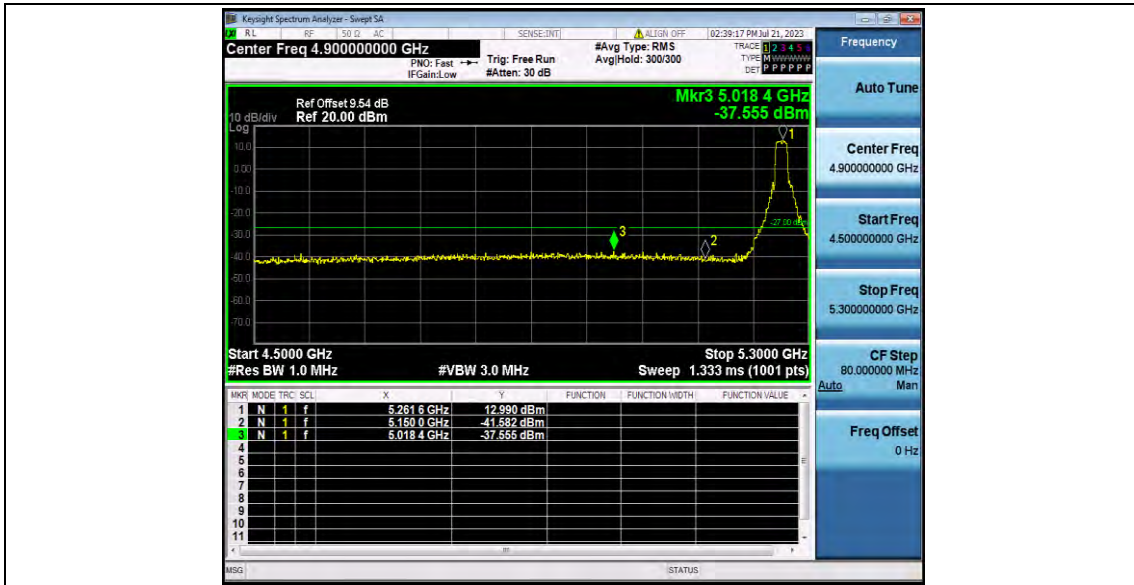
11AC80SISO_Ant2_5290

Appendix E.6: Band edge measurements

Test Result B2

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5260	-37.56	≤ -27	PASS
		High	5320	-28.22	≤ -27	PASS
11N20SISO	Ant2	Low	5260	-37.64	≤ -27	PASS
		High	5320	-36.23	≤ -27	PASS
11N40SISO	Ant2	Low	5270	-37.38	≤ -27	PASS
		High	5310	-29.92	≤ -27	PASS
11AC20SISO	Ant2	Low	5260	-37.36	≤ -27	PASS
		High	5320	-35.89	≤ -27	PASS
11AC40SISO	Ant2	Low	5270	-37.47	≤ -27	PASS
		High	5310	-31.75	≤ -27	PASS
11AC80SISO	Ant2	Low	5290	-38.21	≤ -27	PASS
		High	5290	-27.38	≤ -27	PASS

Test Graphs B2



11A_Ant2_Low_5260



11A_Ant2_High_5320



11N20SISO_Ant2_Low_5260



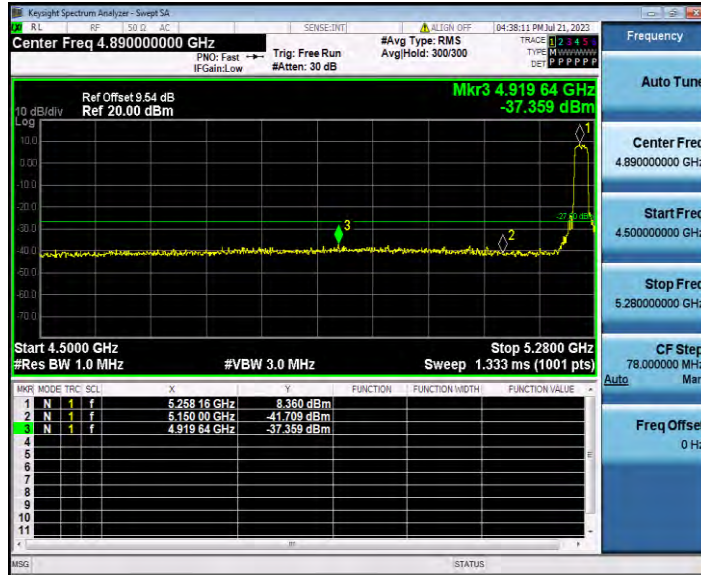
11N20SISO_Ant2_High_5320



11N40SISO_Ant2_Low_5270



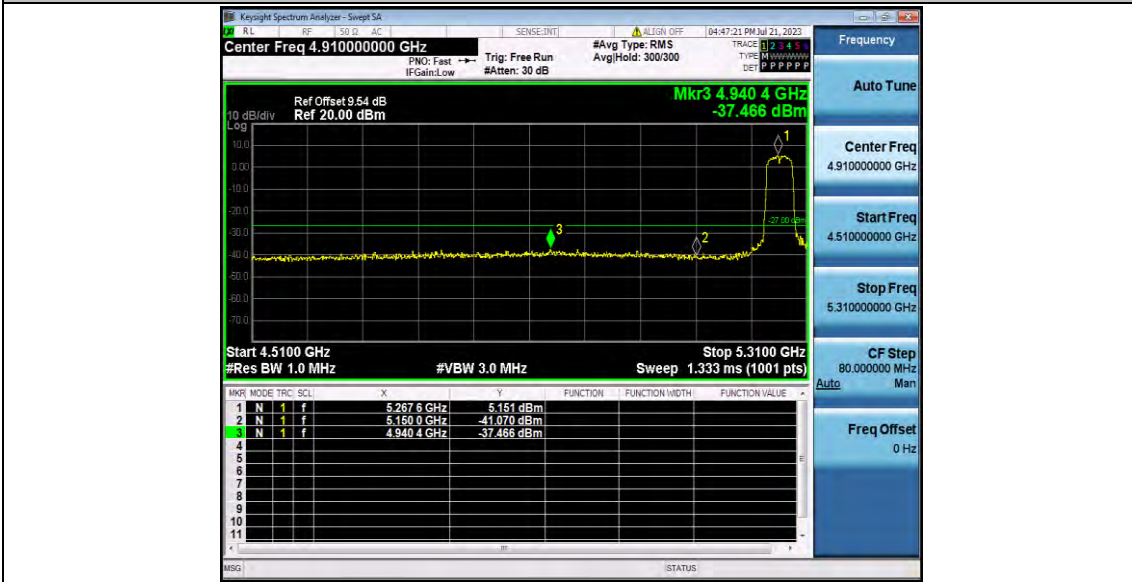
11N40SISO_Ant2_High_5310



11AC20SISO_Ant2_Low_5260



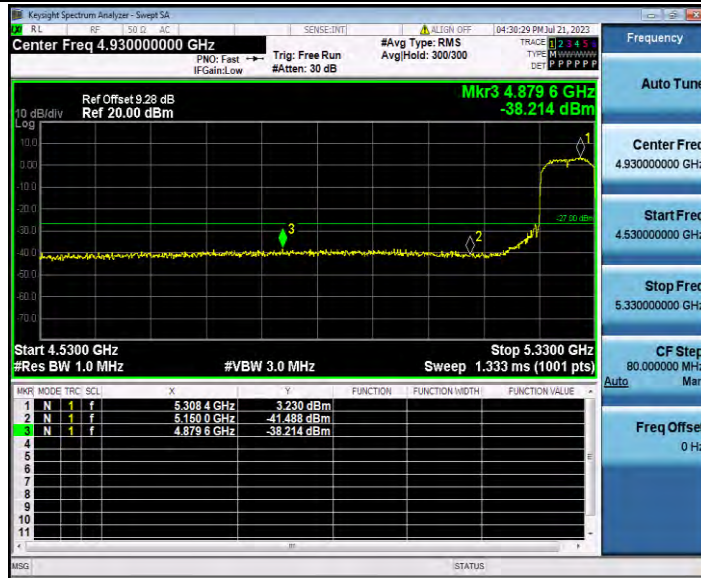
11AC20SISO_Ant2_High_5320



11AC40SISO_Ant2_Low_5270



11AC40SISO_Ant2_High_5310



11AC80SISO_Ant2_Low_5290



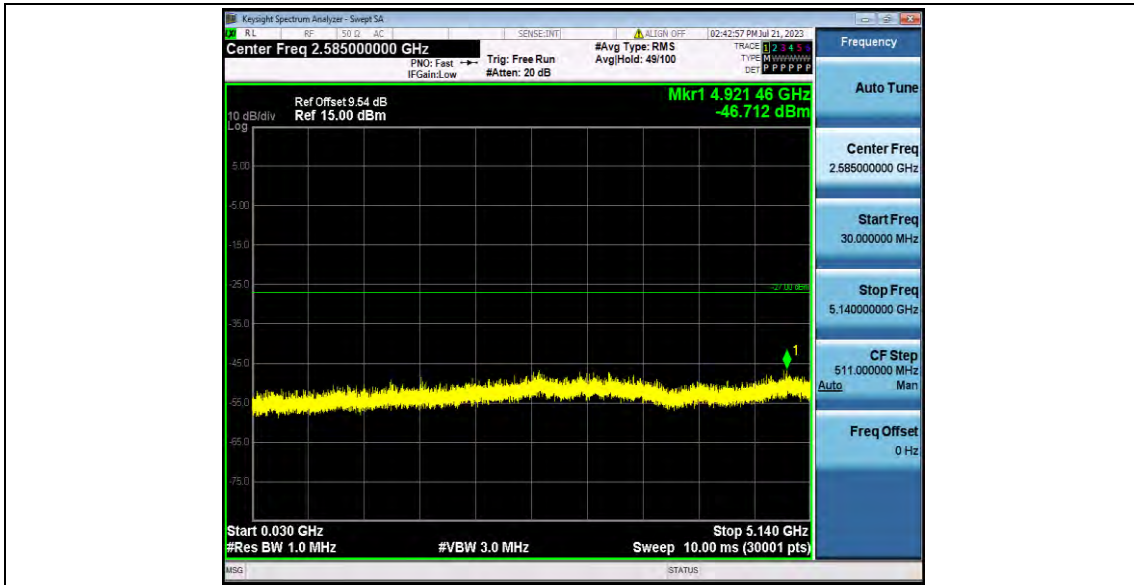
11AC80SISO_Ant2_High_5290

Appendix E.7: Conducted Spurious Emission

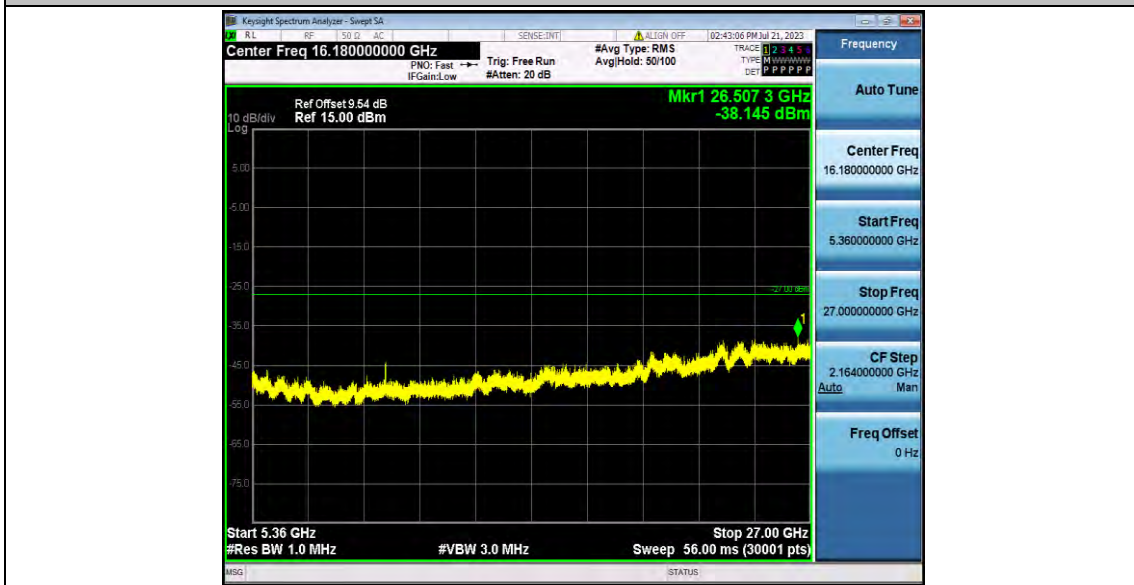
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5260	30~5140	4921.46	-46.71	≤-27	PASS
			5360~40000	26507.33	-38.15	≤-27	PASS
		5280	30~5140	4956.89	-47.08	≤-27	PASS
			5360~40000	26544.12	-37.43	≤-27	PASS
		5320	30~5140	4963.36	-47.54	≤-27	PASS
			5360~40000	5361.44	-35.59	≤-27	PASS
11N20SISO	Ant2	5260	30~5140	4939.01	-46.82	≤-27	PASS
			5360~40000	26935.8	-37.65	≤-27	PASS
		5280	30~5140	4955.02	-47.34	≤-27	PASS
			5360~40000	24243.79	-37.8	≤-27	PASS
		5320	30~5140	4911.92	-48.08	≤-27	PASS
			5360~40000	25638.84	-38.18	≤-27	PASS
11N40SISO	Ant2	5270	30~5140	4891.31	-46.24	≤-27	PASS
			5360~40000	24887.21	-38.15	≤-27	PASS
		5310	30~5140	4810.06	-47.88	≤-27	PASS
			5360~40000	5362.89	-36.69	≤-27	PASS
11AC20SISO	Ant2	5260	30~5140	2522.15	-42.72	≤-27	PASS
			5360~40000	24199.78	-38.29	≤-27	PASS
		5280	30~5140	4903.41	-47.2	≤-27	PASS
			5360~40000	26819.67	-37.74	≤-27	PASS
		5320	30~5140	4751.3	-47.29	≤-27	PASS
			5360~40000	26593.17	-38.14	≤-27	PASS
11AC40SISO	Ant2	5270	30~5140	4930.15	-46.8	≤-27	PASS
			5360~40000	24251	-37.82	≤-27	PASS
		5310	30~5140	909.26	-44.17	≤-27	PASS
			5360~40000	24813.64	-37.56	≤-27	PASS
11AC80SISO	Ant2	5290	30~5140	5013.61	-47.65	≤-27	PASS
			5360~40000	5365.77	-32.51	≤-27	PASS

Test Graphs



11A_Ant2_5260_30~5140



11A_Ant2_5260_5360~40000



11A_Ant2_5280_30~5140



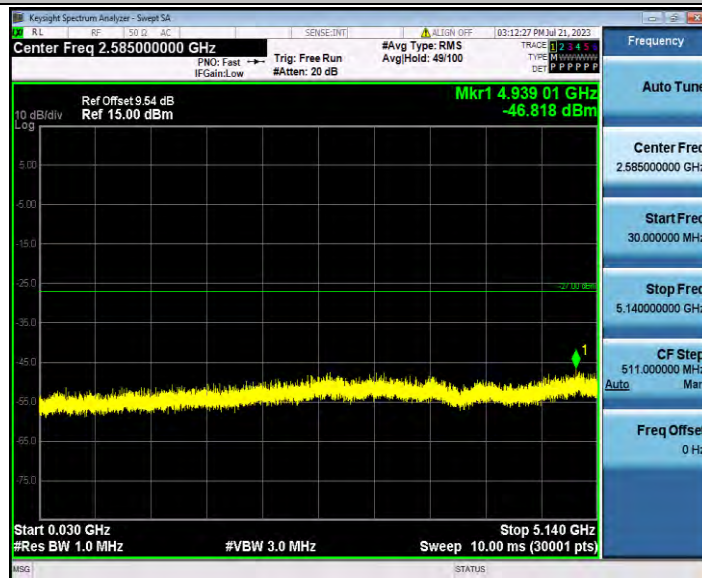
11A_Ant2_5280_5360~40000



11A_Ant2_5320_30~5140



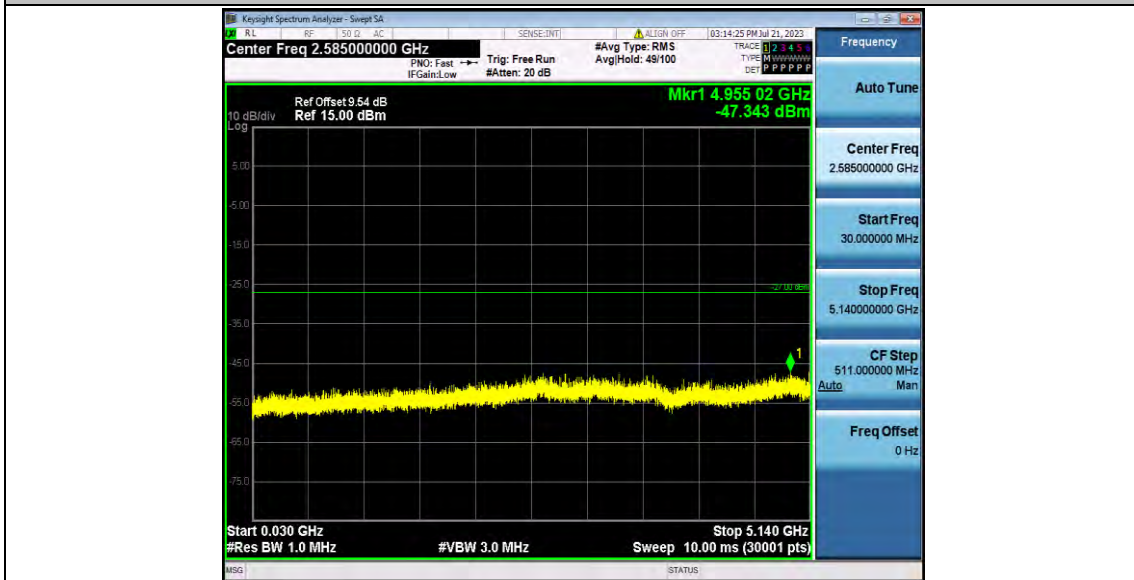
11A_Ant2_5320_5360~40000



11N20SISO_Ant2_5260_30~5140



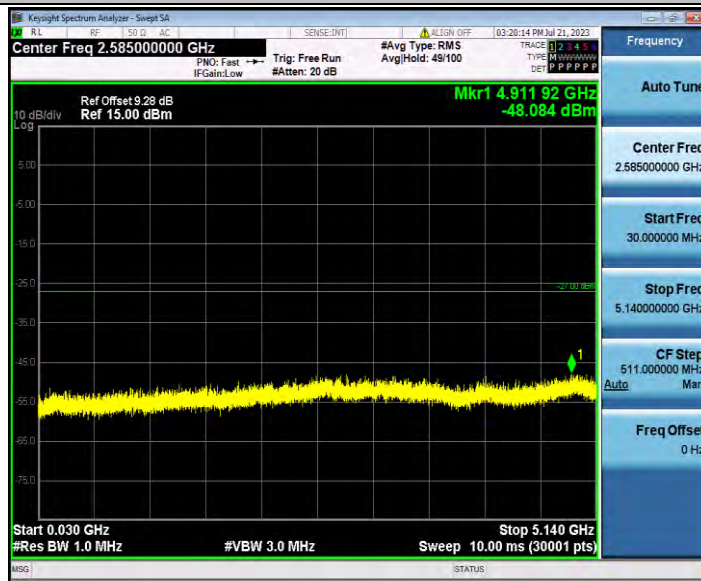
11N20SISO_Ant2_5260_5360~40000



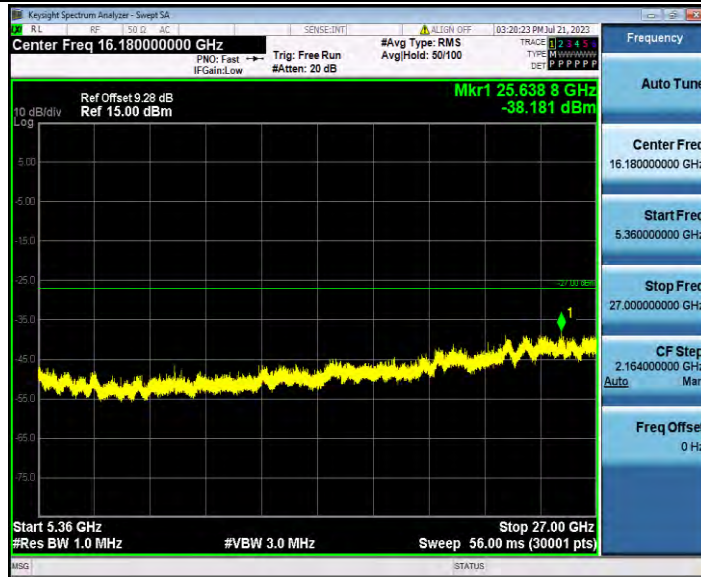
11N20SISO_Ant2_5280_30~5140



11N20SISO_Ant2_5280_5360~40000



11N20SISO_Ant2_5320_30~5140



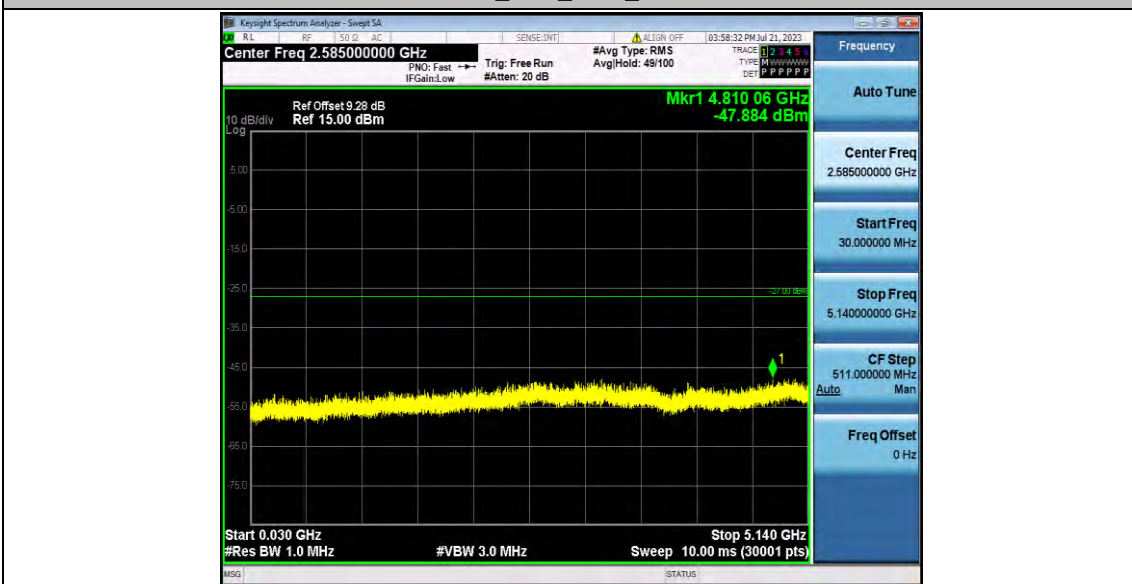
11N20SISO_Ant2_5320_5360~40000



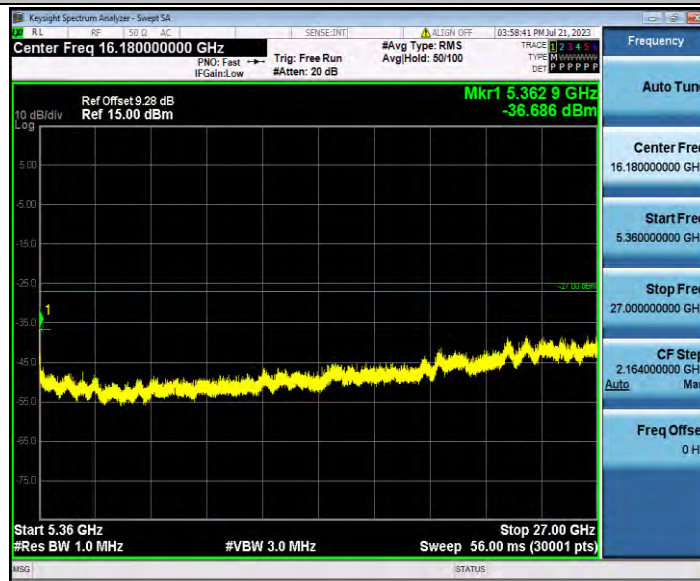
11N40SISO_Ant2_5270_30~5140



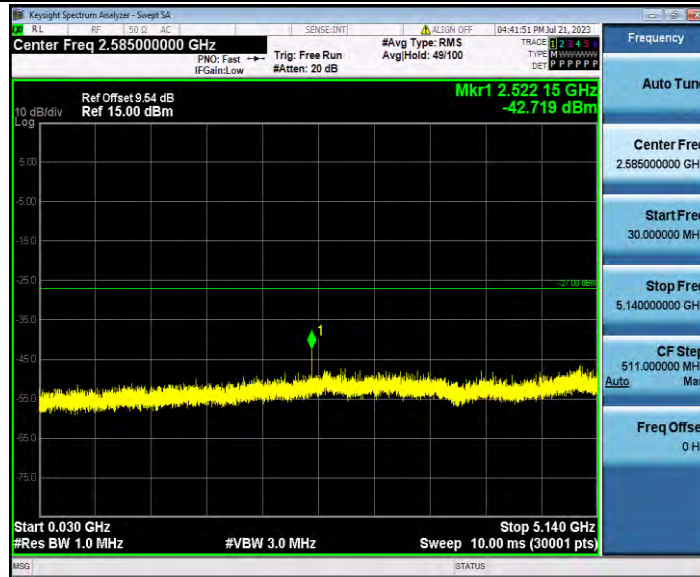
11N40SISO_Ant2_5270_5360~40000



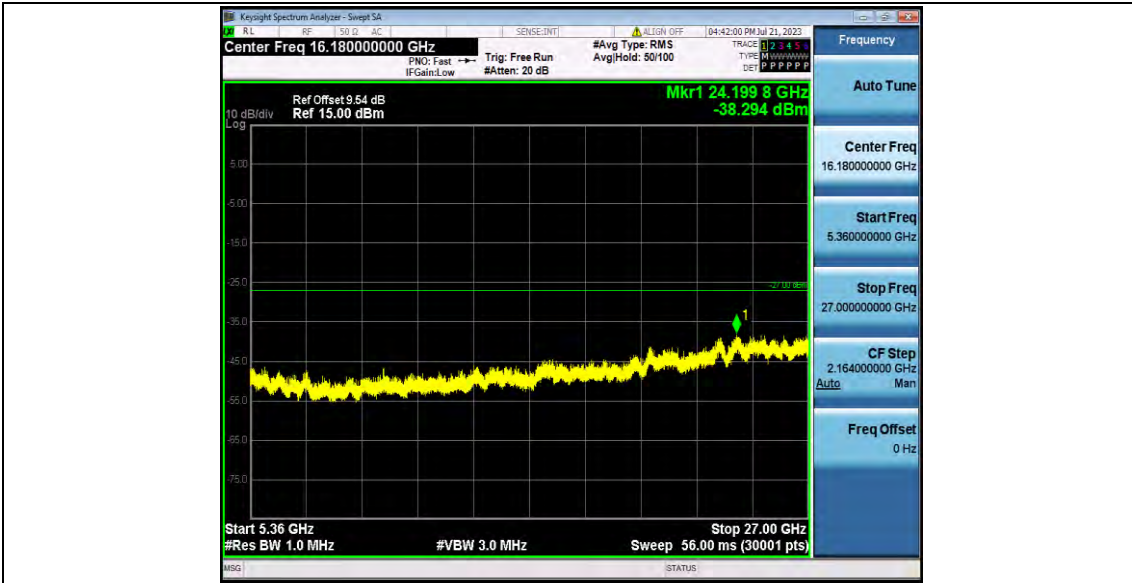
11N40SISO_Ant2_5310_30~5140



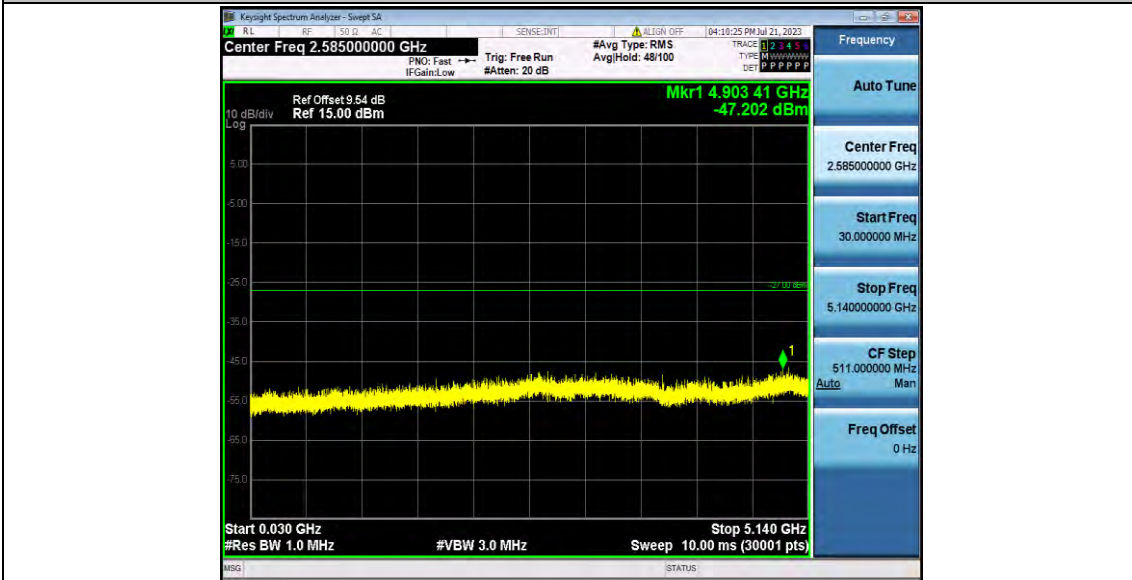
11N40SISO_Ant2_5310_5360~40000



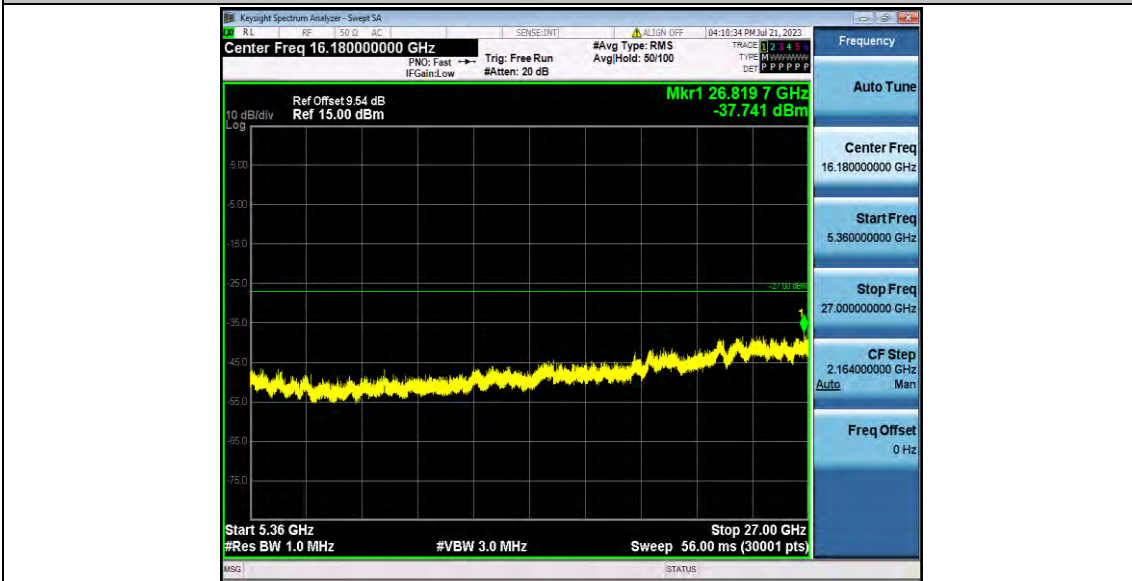
11AC20SISO_Ant2_5260_30~5140



11AC20SISO_Ant2_5260_5360~4000



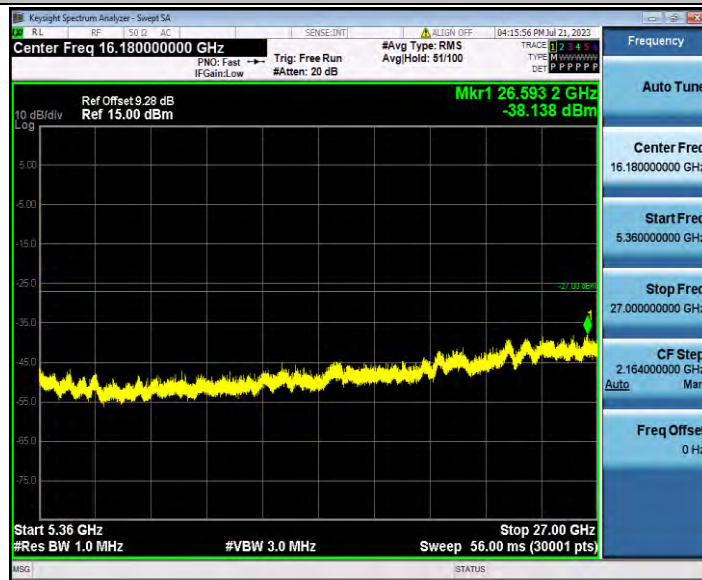
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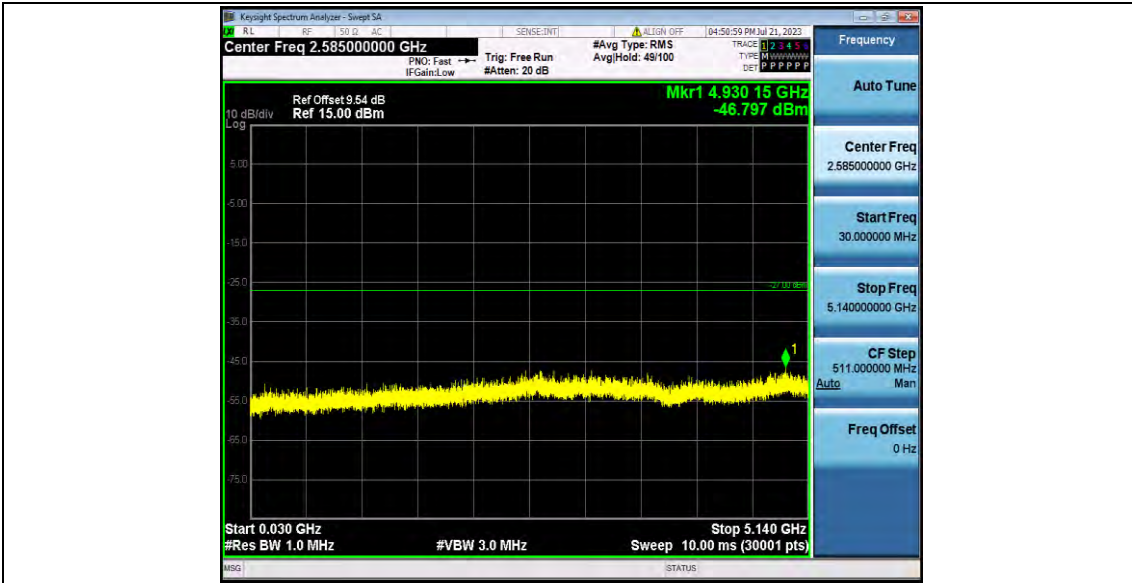
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11AC20SISO_Ant2_5320_30~5140



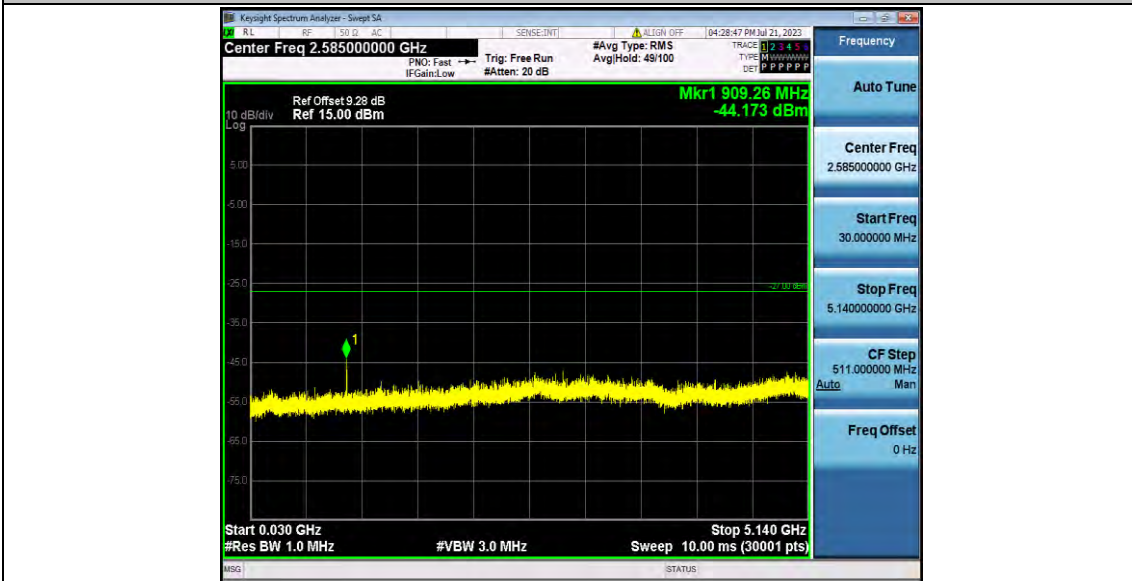
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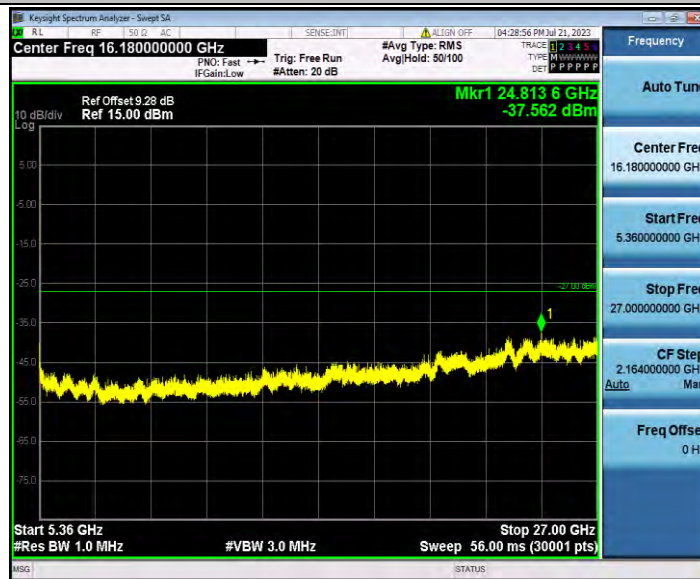
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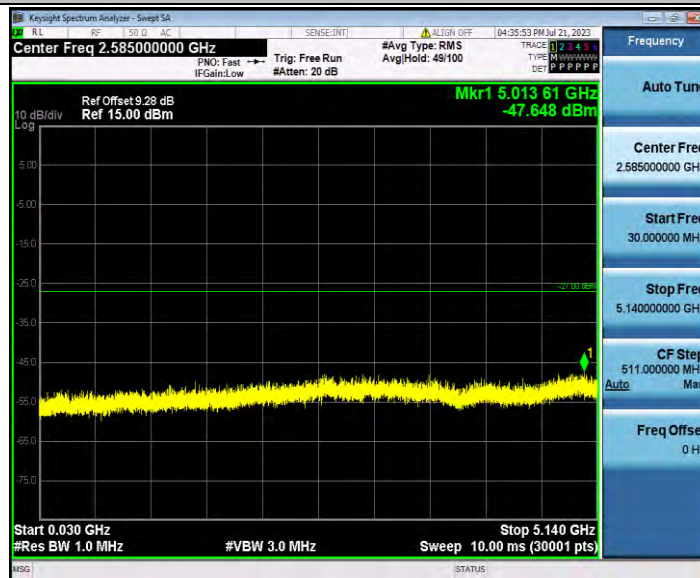
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11AC40SISO_Ant2_5310_30~5140



11AC40SISO_Ant2_5310_5360~40000



11AC80SISO_Ant2_5290_30~5140

