

Case No. : <u>CTA24081600404</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.8.21</u>	Test Engineer: <u>Lushan Kong</u>

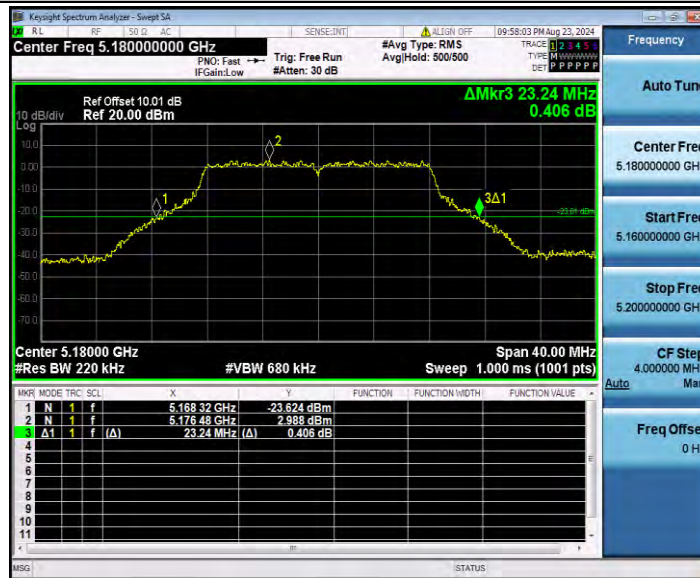
Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	23.240	5168.320	5191.560	---	---
		5200	23.600	5188.320	5211.920	---	---
		5240	23.160	5228.480	5251.640	---	---
11N20SISO	Ant2	5180	24.040	5167.760	5191.800	---	---
		5200	23.880	5187.680	5211.560	---	---
		5240	23.960	5228.160	5252.120	---	---
11N40SISO	Ant2	5190	44.720	5167.920	5212.640	---	---
		5230	44.800	5207.600	5252.400	---	---
11AC20SISO	Ant2	5180	24.160	5167.760	5191.920	---	---
		5200	23.600	5188.200	5211.800	---	---
		5240	23.920	5227.920	5251.840	---	---
11AC40SISO	Ant2	5190	44.400	5167.840	5212.240	---	---
		5230	44.160	5207.840	5252.000	---	---
11AC80SISO	Ant2	5210	83.360	5168.720	5252.080	---	---

Test Graphs

11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



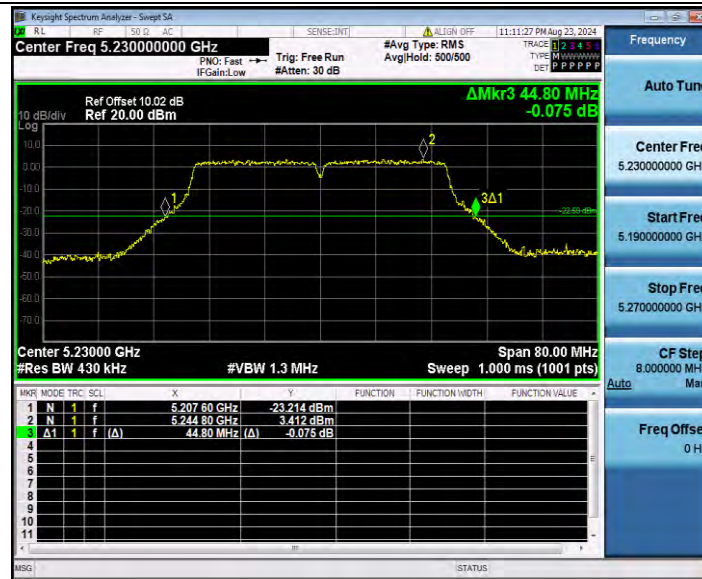
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



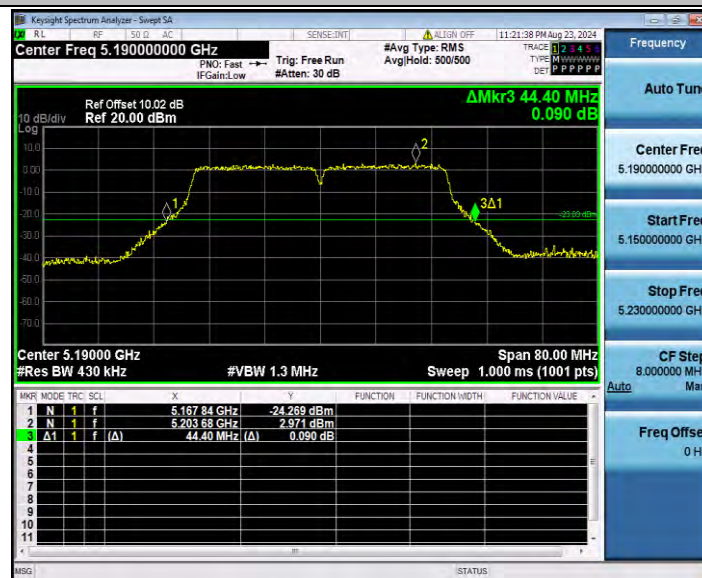
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.285	5171.3235	5188.6085	---	---
		5200	17.217	5191.3808	5208.5978	---	---
		5240	17.294	5231.3343	5248.6283	---	---
11N20SISO	Ant2	5180	18.336	5170.8015	5189.1375	---	---
		5200	18.305	5190.8289	5209.1339	---	---
		5240	18.343	5230.8093	5249.1523	---	---
11N40SISO	Ant2	5190	36.860	5171.5694	5208.4294	---	---
		5230	36.867	5211.5884	5248.4554	---	---
11AC20SISO	Ant2	5180	18.307	5170.8101	5189.1171	---	---
		5200	18.298	5190.8249	5209.1229	---	---
		5240	18.332	5230.8029	5249.1349	---	---
11AC40SISO	Ant2	5190	36.808	5171.5990	5208.4070	---	---
		5230	36.718	5211.6309	5248.3489	---	---
11AC80SISO	Ant2	5210	75.147	5172.5150	5247.6620	---	---

Test Graphs

11A_Ant2_5180



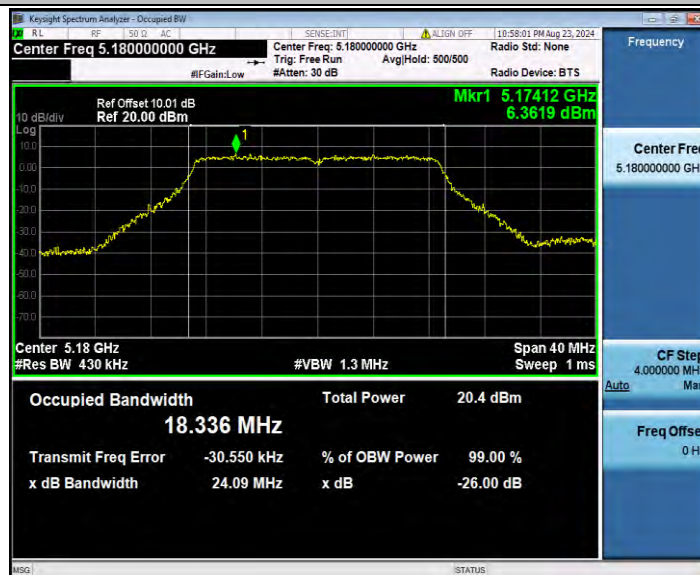
11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



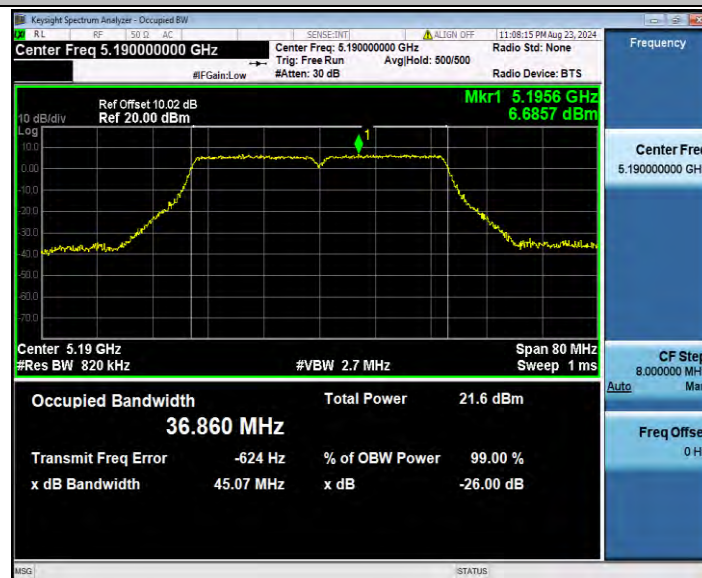
11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



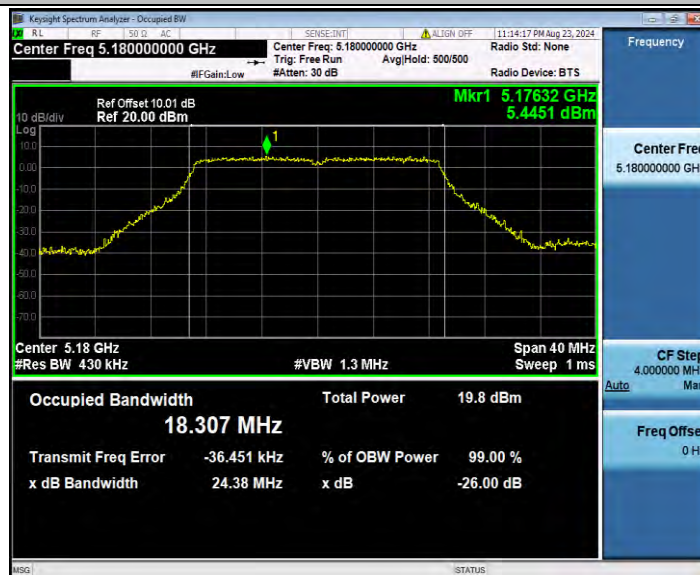
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



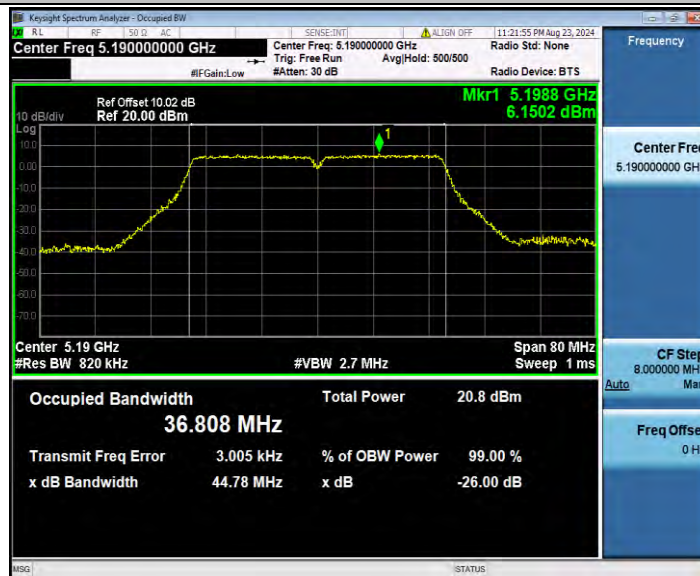
11AC20SISO_Ant2_5200



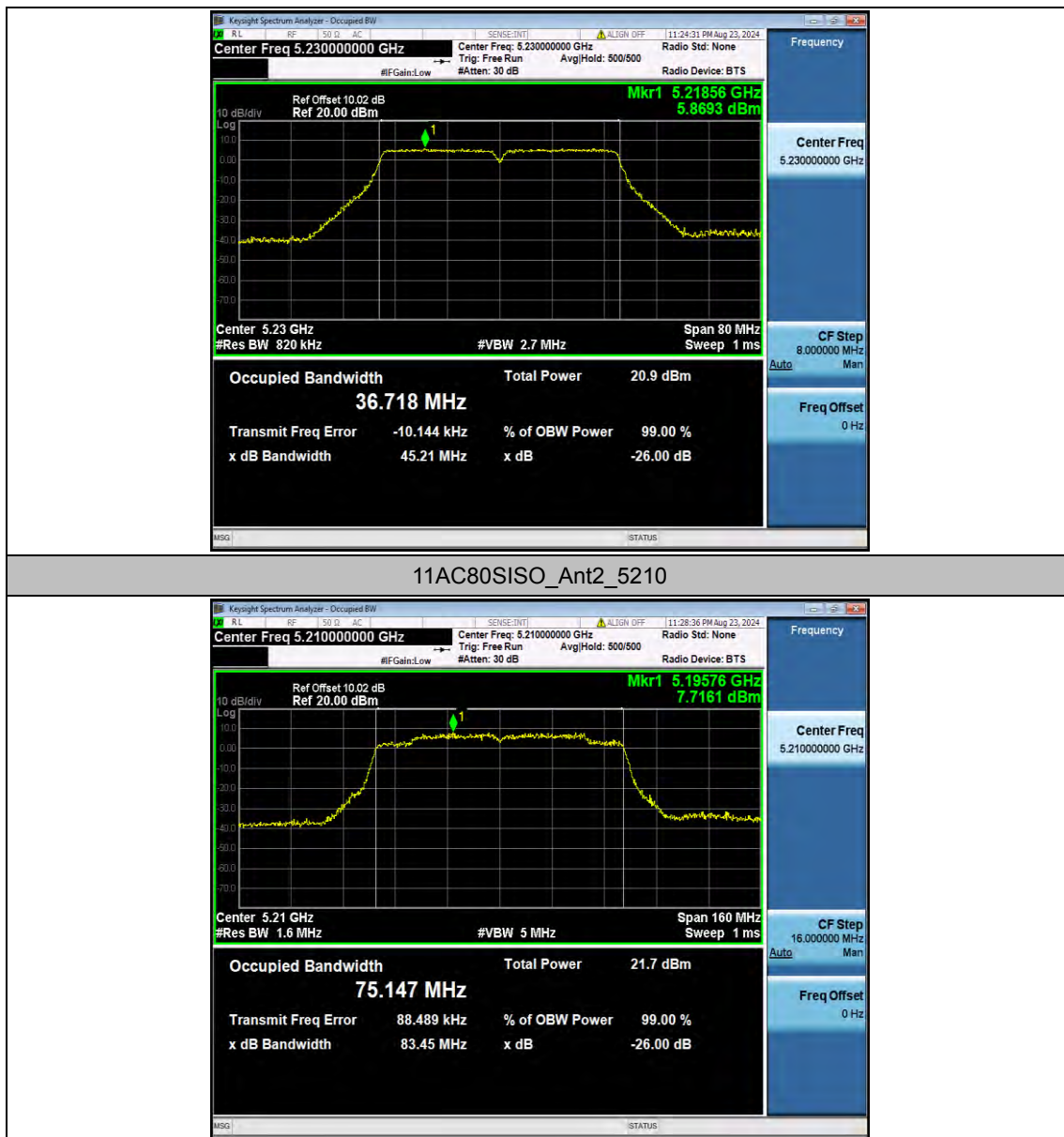
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



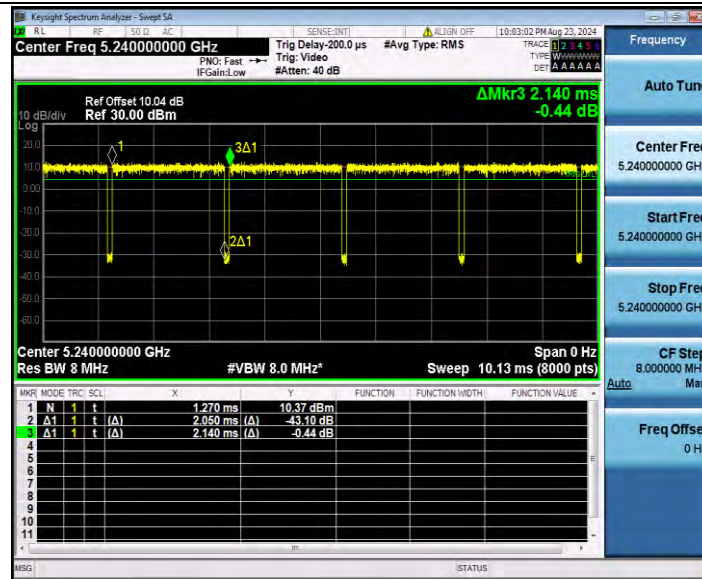
11AC40SISO_Ant2_5230



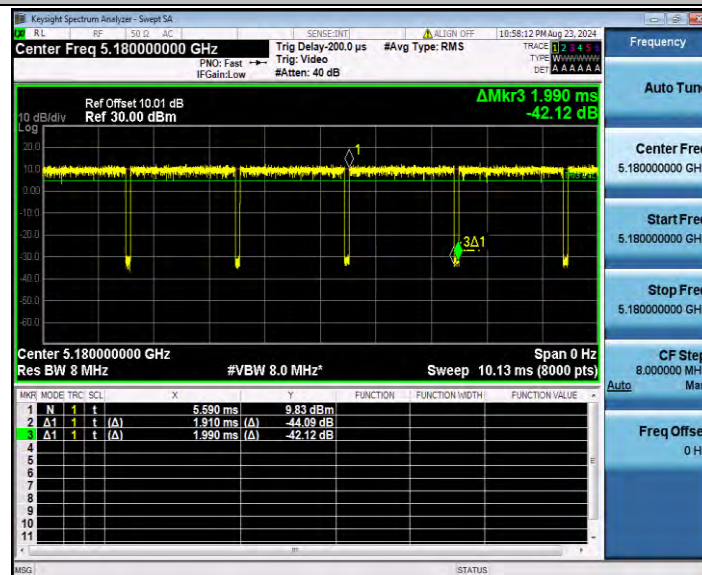
Appendix D.3: Duty Cycle

Test Result

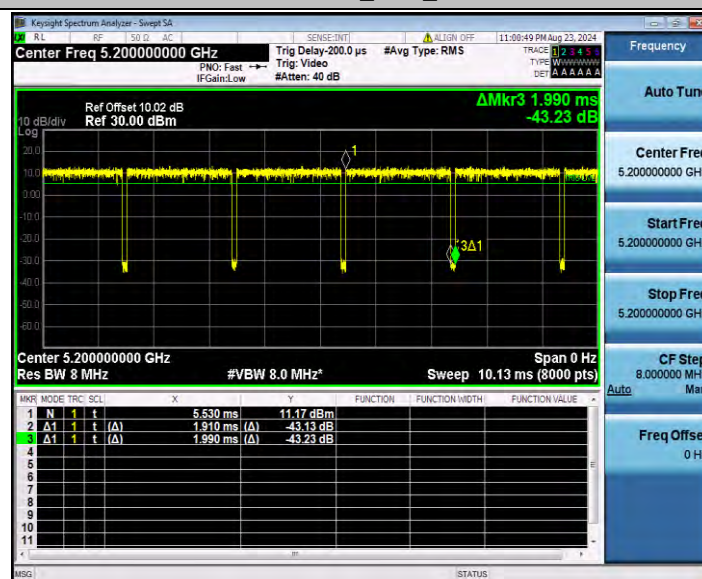
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5180	2.05	2.14	95.79	0.19	0.49
		5200	2.05	2.14	95.79	0.19	0.49
		5240	2.05	2.14	95.79	0.19	0.49
11N20SISO	Ant2	5180	1.91	1.99	95.98	0.18	0.52
		5200	1.91	1.99	95.98	0.18	0.52
		5240	1.91	1.99	95.98	0.18	0.52
11N40SISO	Ant2	5190	0.94	0.98	95.92	0.18	1.06
		5230	0.94	0.98	95.92	0.18	1.06
11AC20SISO	Ant2	5180	1.92	2.00	96.00	0.18	0.52
		5200	1.92	2.00	96.00	0.18	0.52
		5240	1.92	2.00	96.00	0.18	0.52
11AC40SISO	Ant2	5190	0.94	0.99	94.95	0.23	1.06
		5230	0.95	0.99	95.96	0.18	1.05
11AC80SISO	Ant2	5210	0.45	0.49	91.84	0.37	2.22



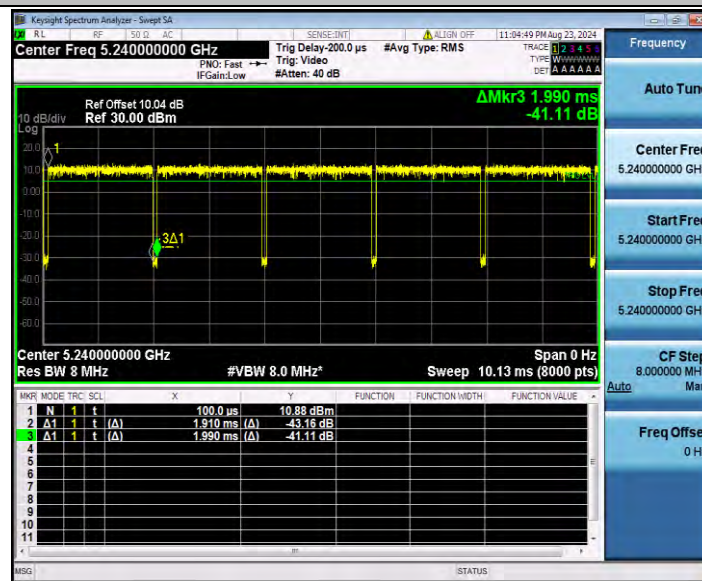
11N20SISO_Ant2_5180



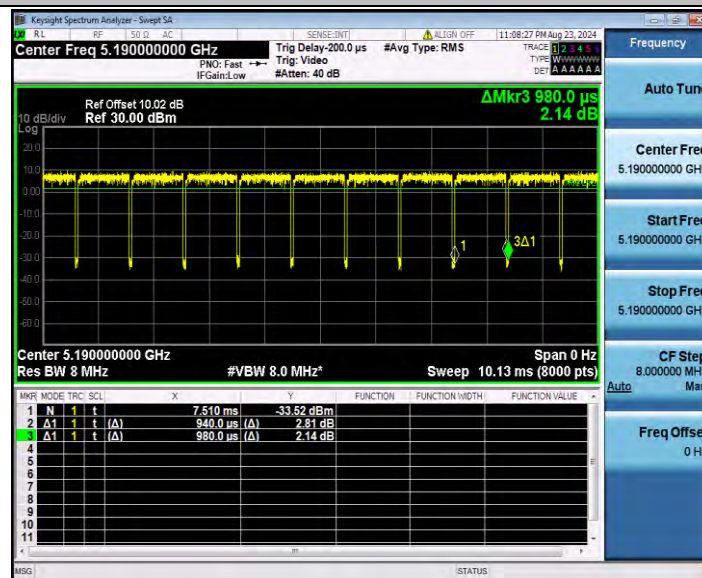
11N20SISO_Ant2_5200



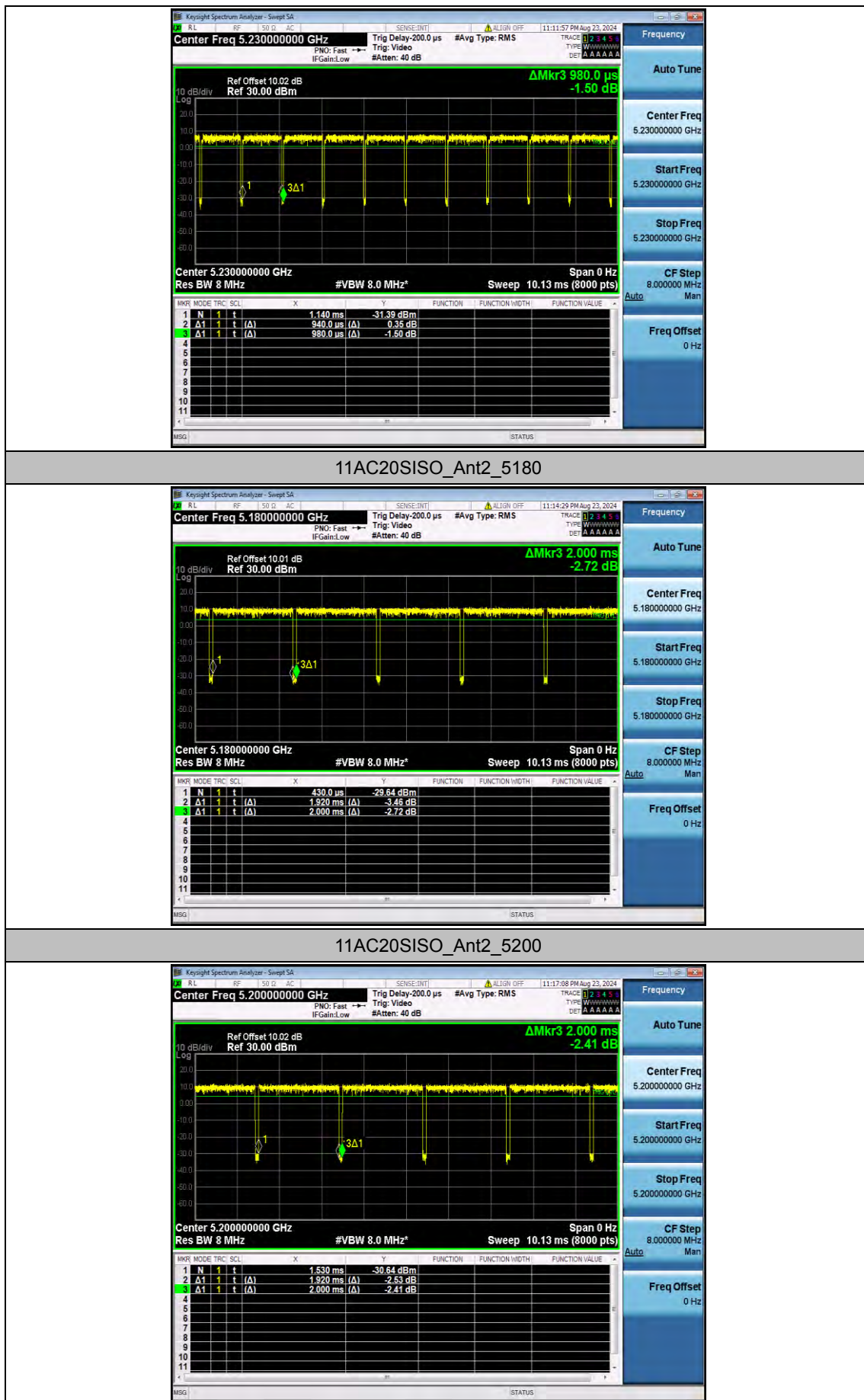
11N20SISO_Ant2_5240



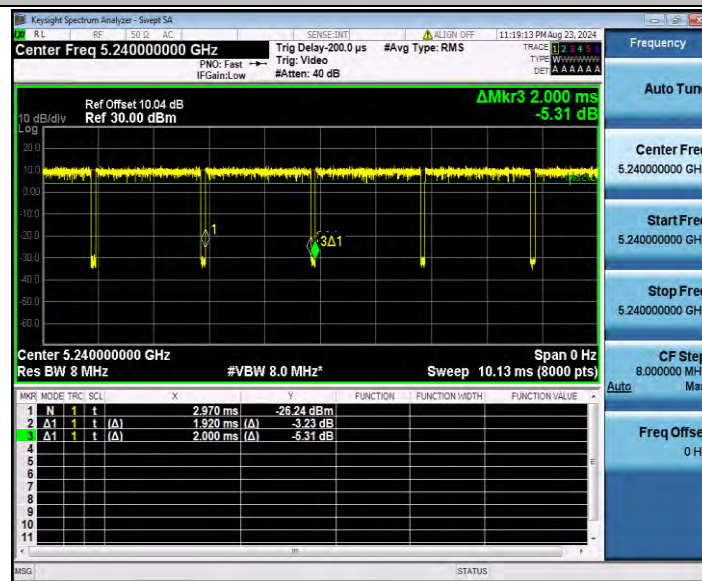
11N40SISO_Ant2_5190



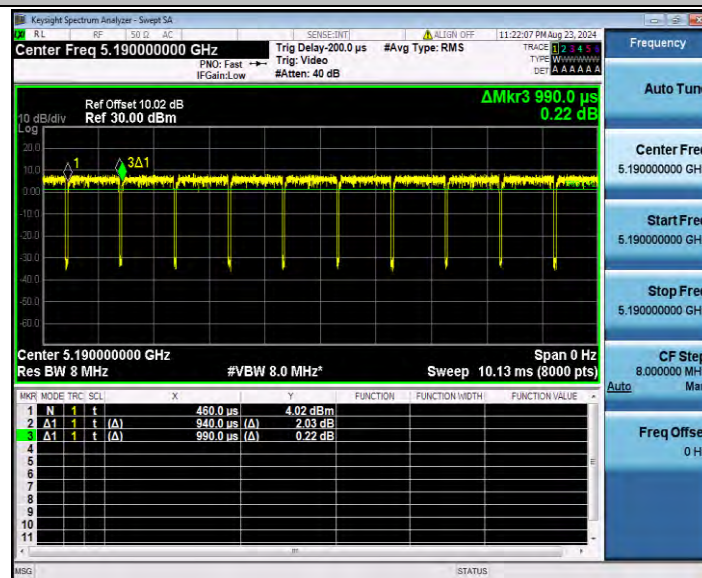
11N40SISO_Ant2_5230



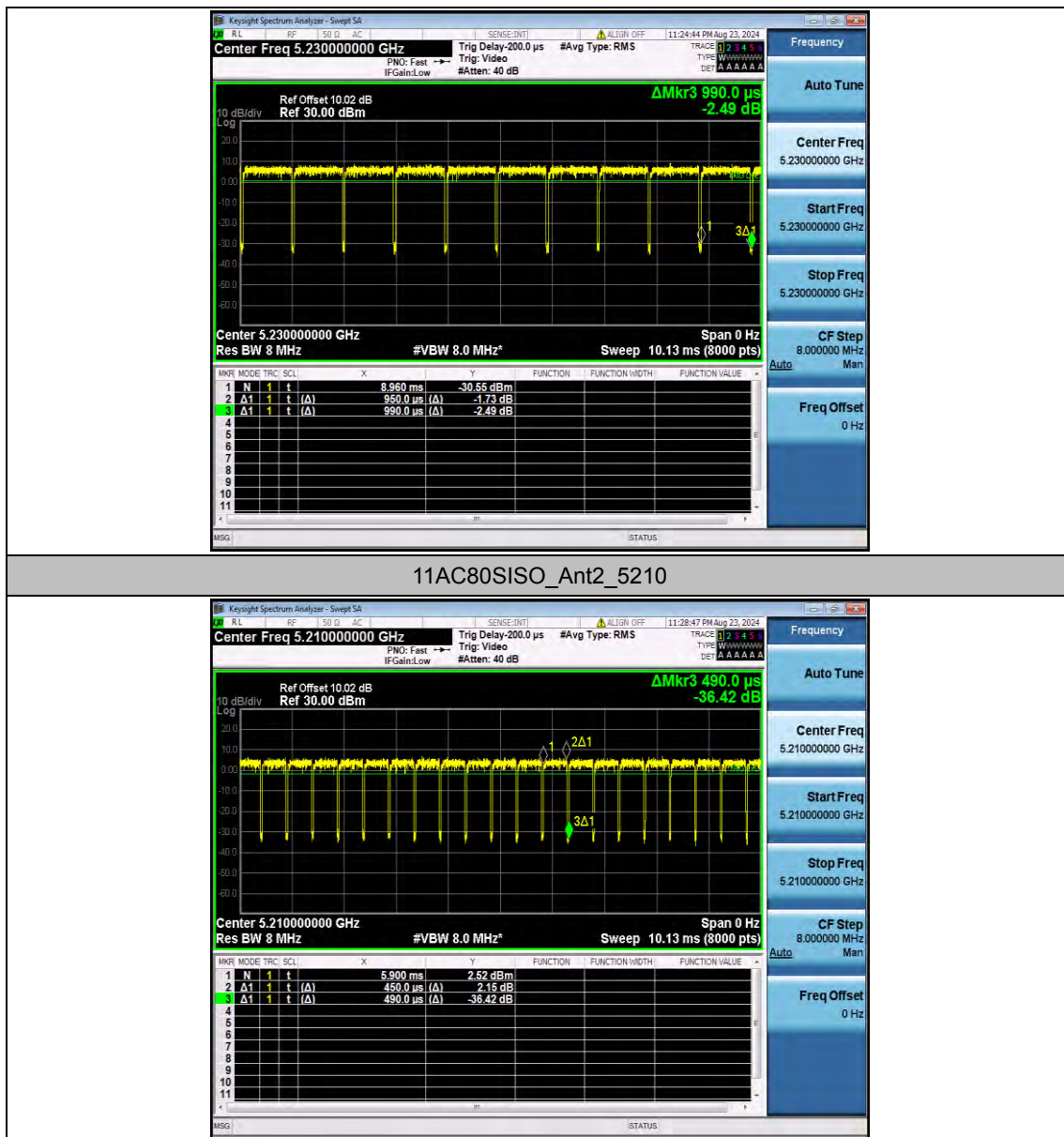
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	12.46	95.79	0.19	12.65	≤23.98	PASS
		5200	13.23	95.79	0.19	13.42	≤23.98	PASS
		5240	13.06	95.79	0.19	13.25	≤23.98	PASS
11N20SISO	Ant2	5180	13.47	95.98	0.18	13.65	≤23.98	PASS
		5200	14.22	95.98	0.18	14.40	≤23.98	PASS
		5240	13.98	95.98	0.18	14.16	≤23.98	PASS
11N40SISO	Ant2	5190	13.85	95.92	0.18	14.03	≤23.98	PASS
		5230	13.16	95.92	0.18	13.34	≤23.98	PASS
11AC20SISO	Ant2	5180	12.65	96.00	0.18	12.83	≤23.98	PASS
		5200	13.37	96.00	0.18	13.55	≤23.98	PASS
		5240	13.14	96.00	0.18	13.32	≤23.98	PASS
11AC40SISO	Ant2	5190	12.71	94.95	0.23	12.94	≤23.98	PASS
		5230	13.04	95.96	0.18	13.22	≤23.98	PASS
11AC80SISO	Ant2	5210	12.65	91.84	0.37	13.02	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	0.82	≤11.00	PASS
		5200	1.71	≤11.00	PASS
		5240	1.58	≤11.00	PASS
11N20SISO	Ant2	5180	1.51	≤11.00	PASS
		5200	2.31	≤11.00	PASS
		5240	2.25	≤11.00	PASS
11N40SISO	Ant2	5190	-0.85	≤11.00	PASS
		5230	-1.76	≤11.00	PASS
11AC20SISO	Ant2	5180	0.72	≤11.00	PASS
		5200	1.40	≤11.00	PASS
		5240	1.25	≤11.00	PASS
11AC40SISO	Ant2	5190	-1.88	≤11.00	PASS
		5230	-1.88	≤11.00	PASS
11AC80SISO	Ant2	5210	-4.14	≤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_5180



11A_Ant2_5200



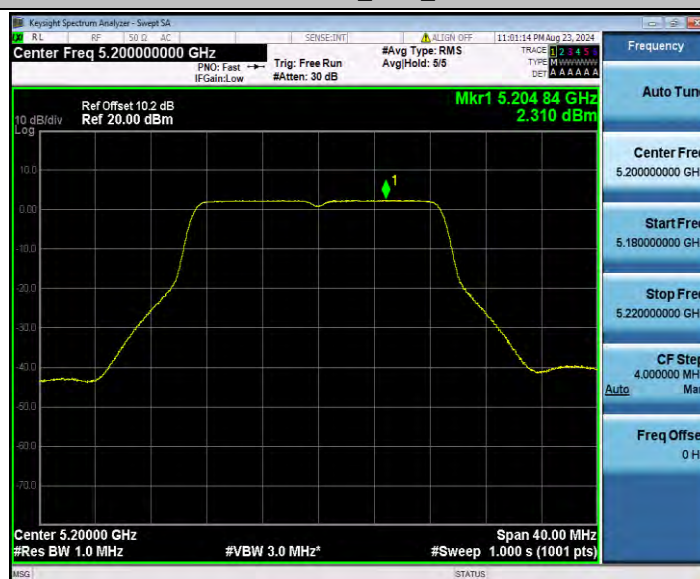
11A_Ant2_5240



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



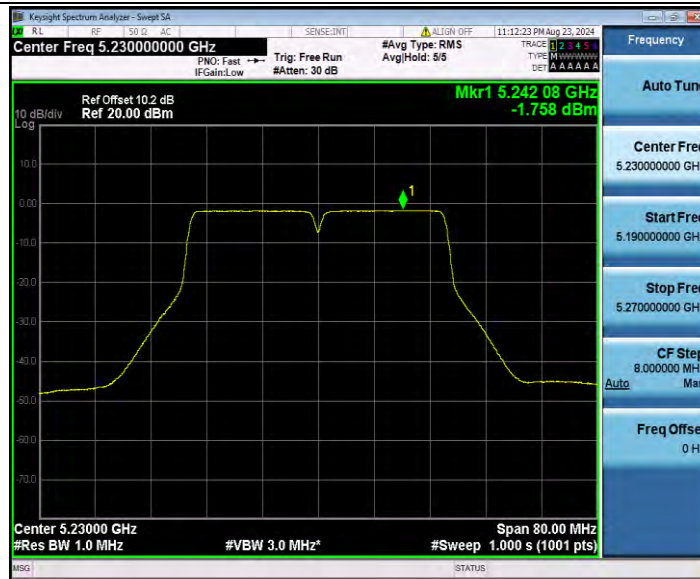
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



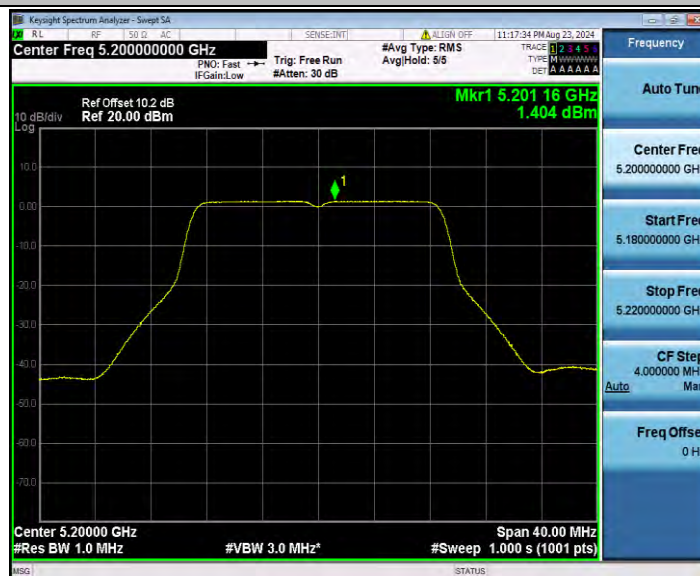
11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



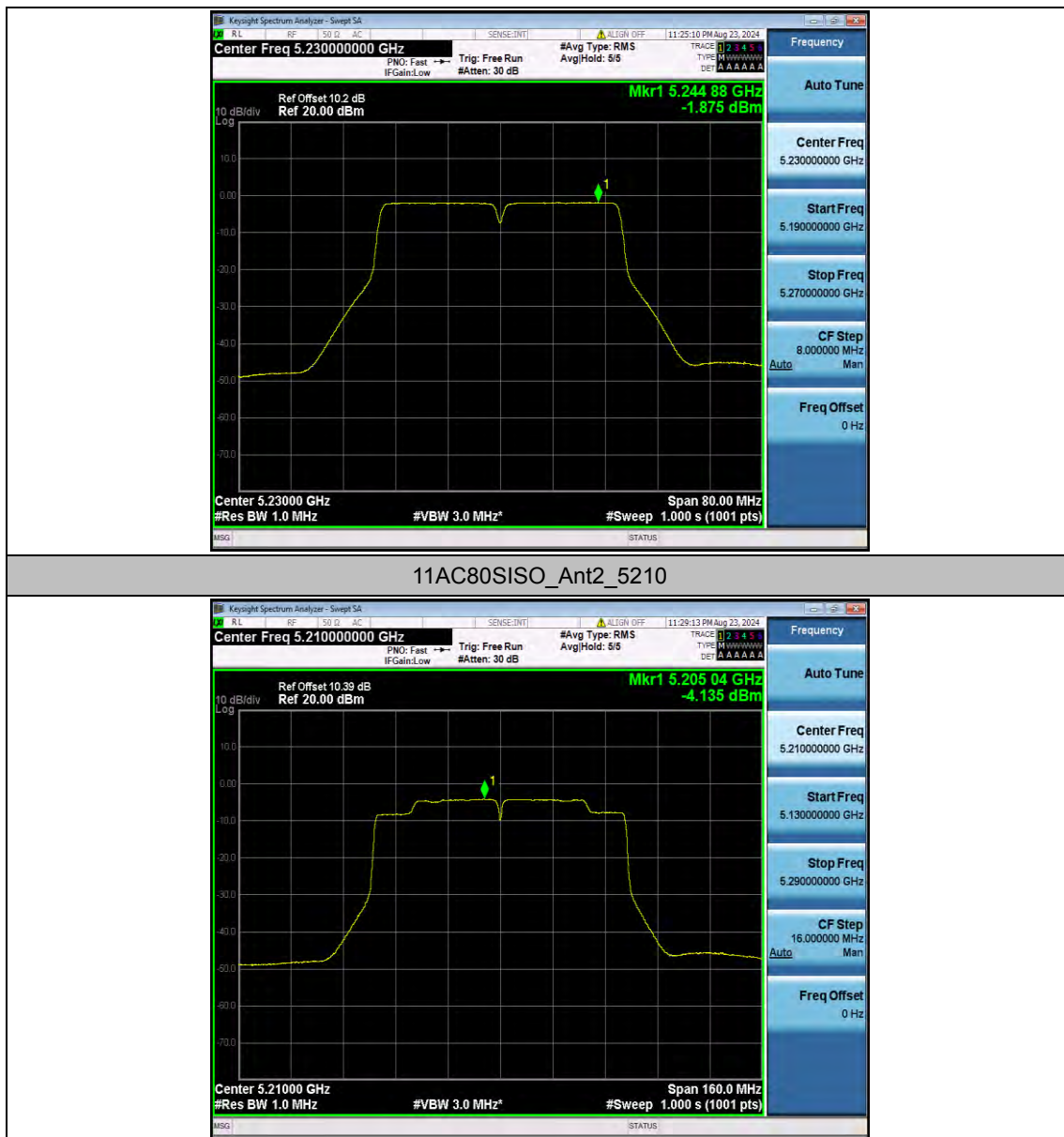
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



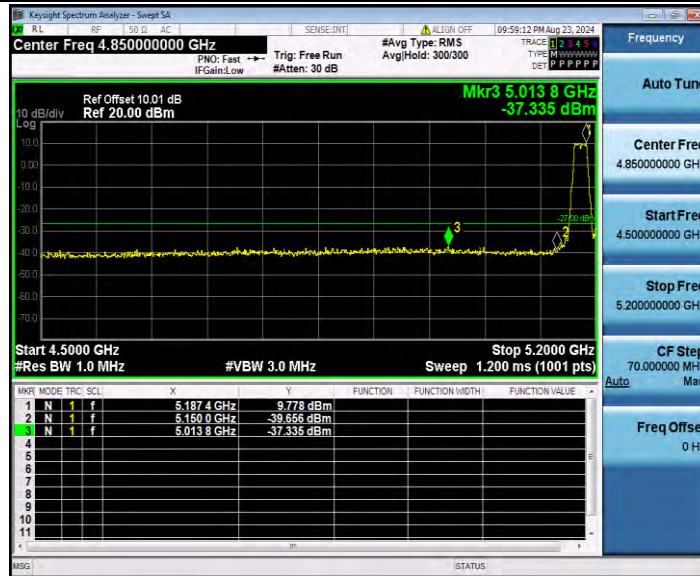
Appendix D.6: Band edge measurements

Test Result B1

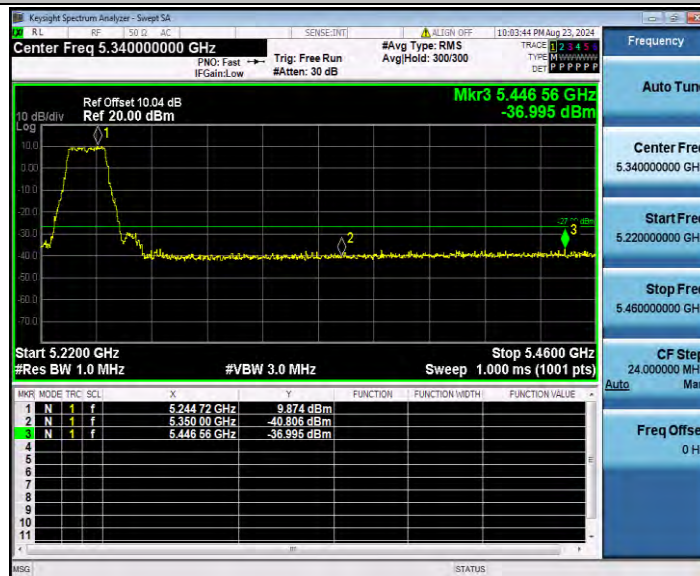
TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-37.34	≤ -27	PASS
		High	5240	-37	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-36.61	≤ -27	PASS
		High	5240	-37.47	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-37.49	≤ -27	PASS
		High	5230	-37.29	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-36.7	≤ -27	PASS
		High	5240	-37	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-37.02	≤ -27	PASS
		High	5230	-36.69	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-37.08	≤ -27	PASS
		High	5210	-37.55	≤ -27	PASS

Test Graphs B1

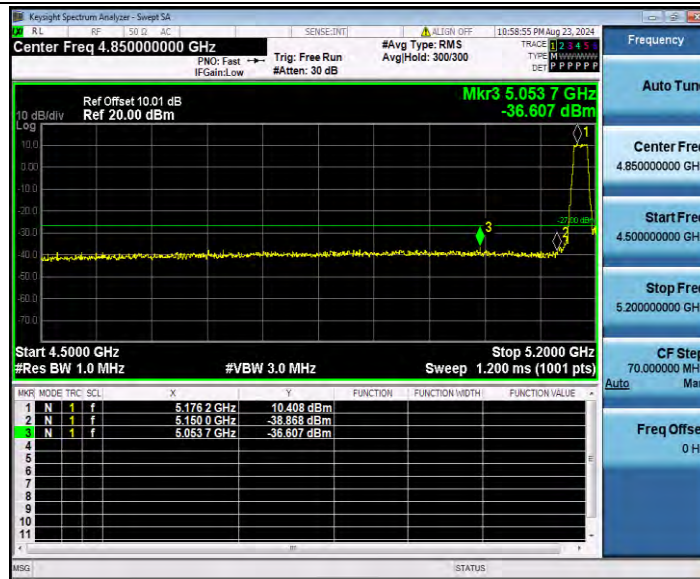
11A_Ant2_Low_5180



11A_Ant2_High_5240



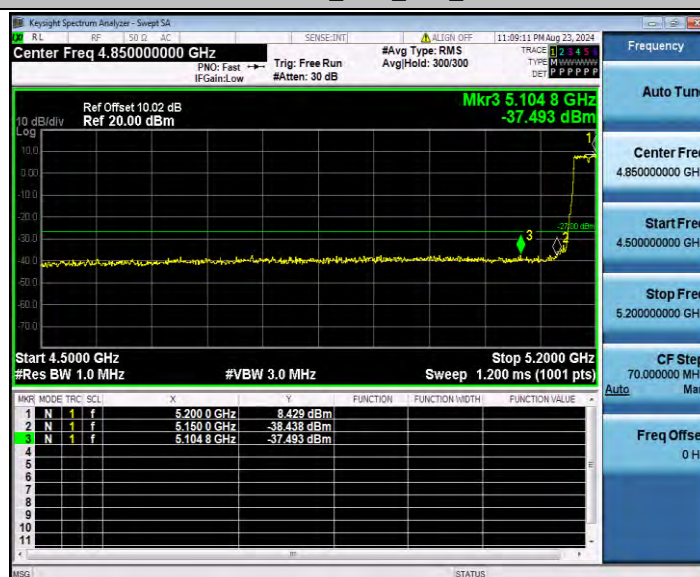
11N20SISO_Ant2_Low_5180



11N20SISO_Ant2_High_5240



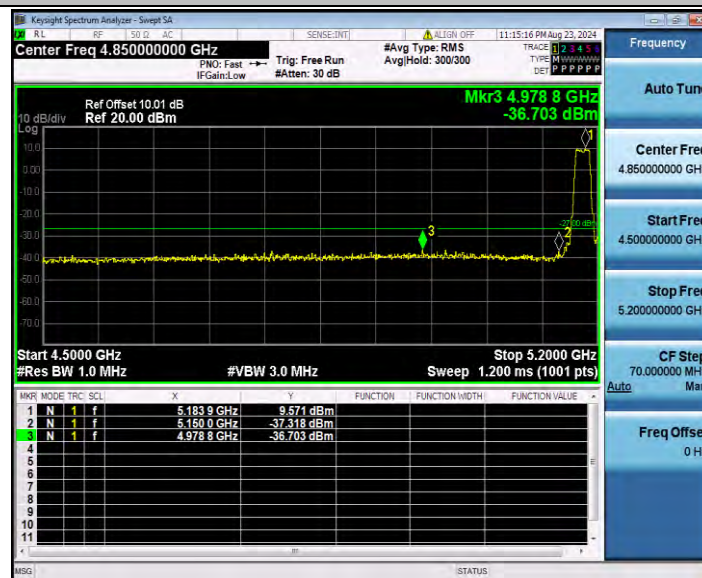
11N40SISO_Ant2_Low_5190



11N40SISO_Ant2_High_5230



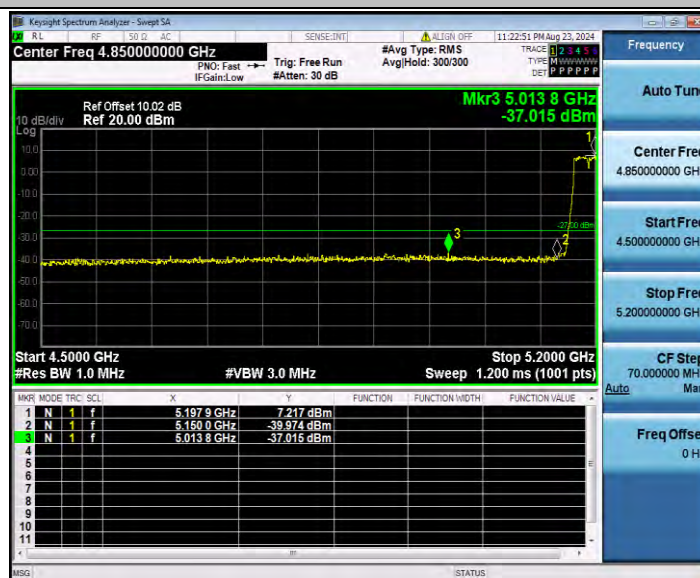
11AC20SISO_Ant2_Low_5180



11AC20SISO_Ant2_High_5240



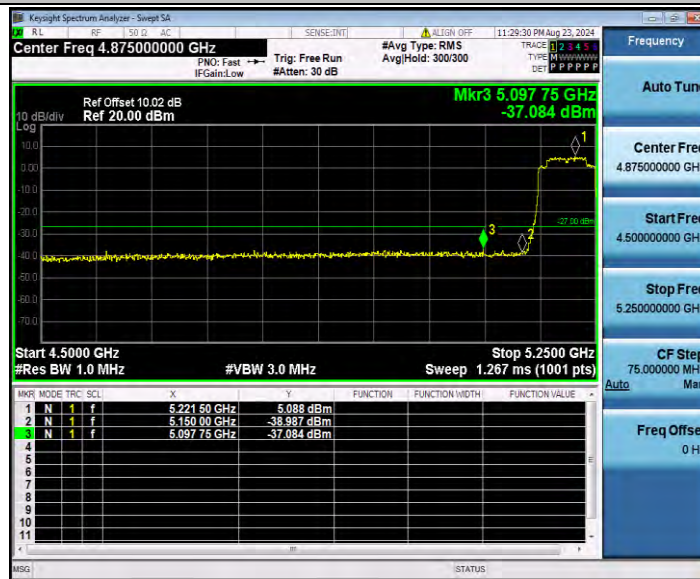
11AC40SISO_Ant2_Low_5190



11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



11AC80SISO_Ant2_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

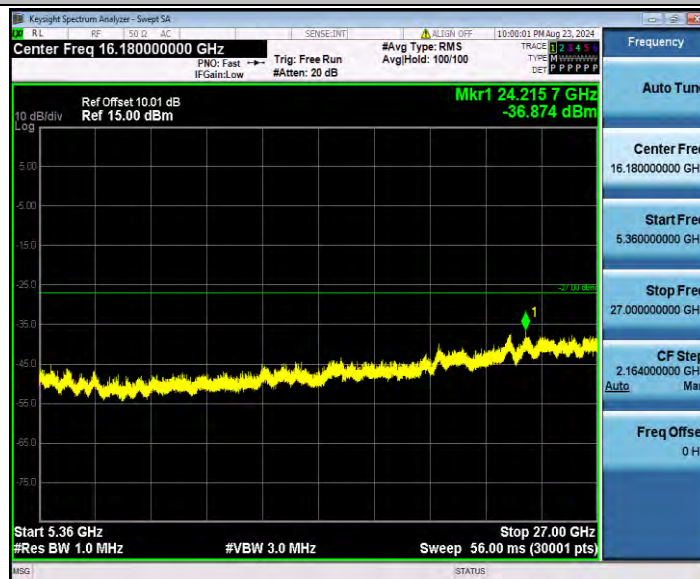
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5121.77	-45.72	≤-27	PASS
			5360~27000	24215.65	-36.87	≤-27	PASS
		5200	30~5140	4846.69	-45.88	≤-27	PASS
			5360~27000	23570.78	-36.8	≤-27	PASS
		5240	30~5140	4891.65	-46.44	≤-27	PASS
			5360~27000	24201.95	-37.51	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5108.32	-45.36	≤-27	PASS
			5360~27000	23495.76	-37.2	≤-27	PASS
		5200	30~5140	4977.67	-45.83	≤-27	PASS
			5360~27000	23559.24	-36.82	≤-27	PASS
		5240	30~5140	5094.69	-45.47	≤-27	PASS
			5360~27000	24340.44	-37.31	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5137.45	-42.62	≤-27	PASS
			5360~27000	24794.16	-37.26	≤-27	PASS
		5230	30~5140	5126.88	-45.37	≤-27	PASS
			5360~27000	24814.36	-37.23	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	827.33	-44.08	≤-27	PASS
			5360~27000	25491.69	-37.14	≤-27	PASS
		5200	30~5140	5058.41	-46.48	≤-27	PASS
			5360~27000	25592.68	-37.52	≤-27	PASS
		5240	30~5140	4950.42	-46.29	≤-27	PASS
			5360~27000	23479.17	-37.33	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5134.38	-42.85	≤-27	PASS
			5360~27000	26737.43	-36.75	≤-27	PASS
		5230	30~5140	5065.73	-46.08	≤-27	PASS
			5360~27000	24252.44	-37.14	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5090.43	-43.23	≤-27	PASS
			5360~27000	23524.62	-36.87	≤-27	PASS

Test Graphs

11A_Ant2_5180_30~5140



11A_Ant2_5180_5360~27000



11A_Ant2_5200_30~5140



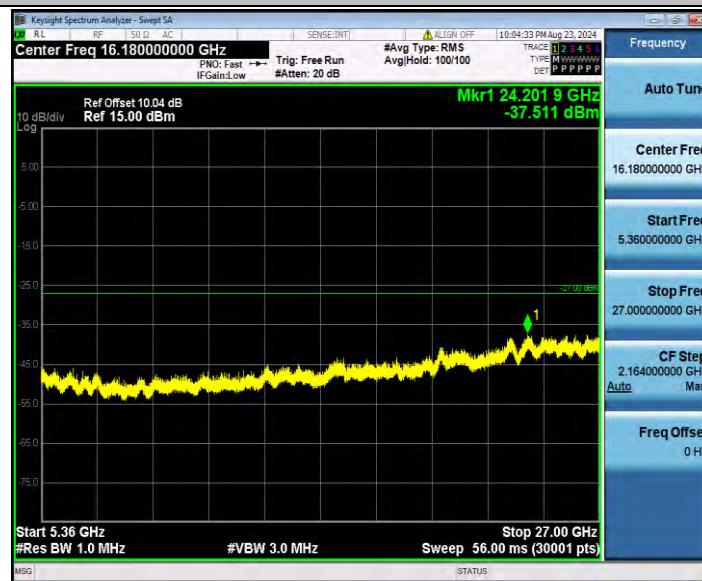
11A_Ant2_5200_5360~27000



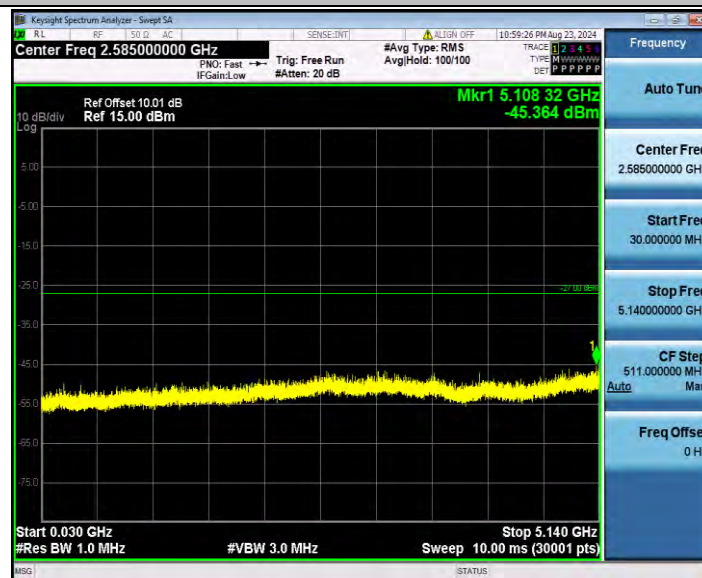
11A_Ant2_5240_30~5140



11A_Ant2_5240_5360~27000



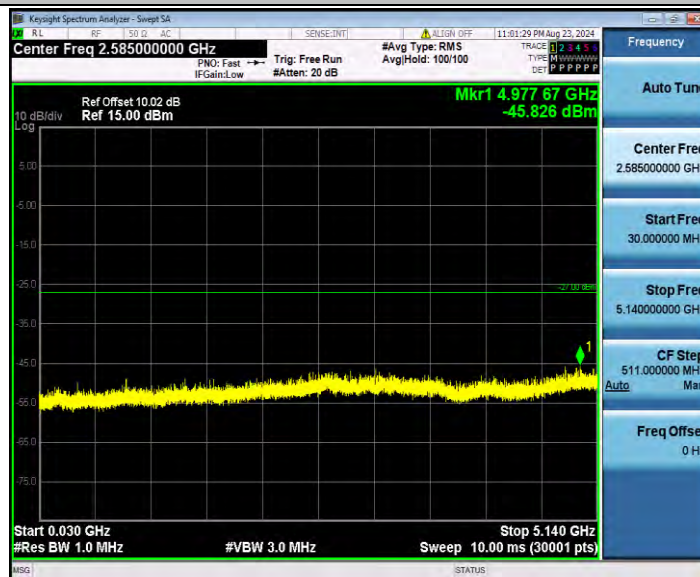
11N20SISO_Ant2_5180_30~5140



11N20SISO_Ant2_5180_5360~27000



11N20SISO_Ant2_5200_30~5140



11N20SISO_Ant2_5200_5360~27000



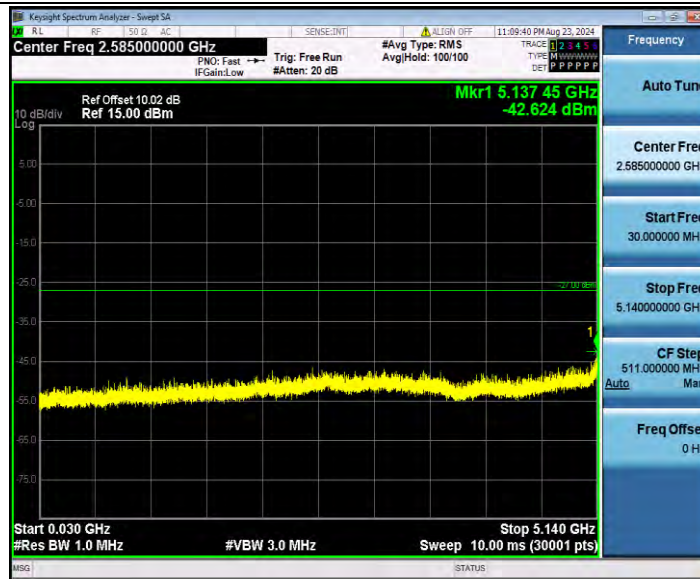
11N20SISO_Ant2_5240_30~5140



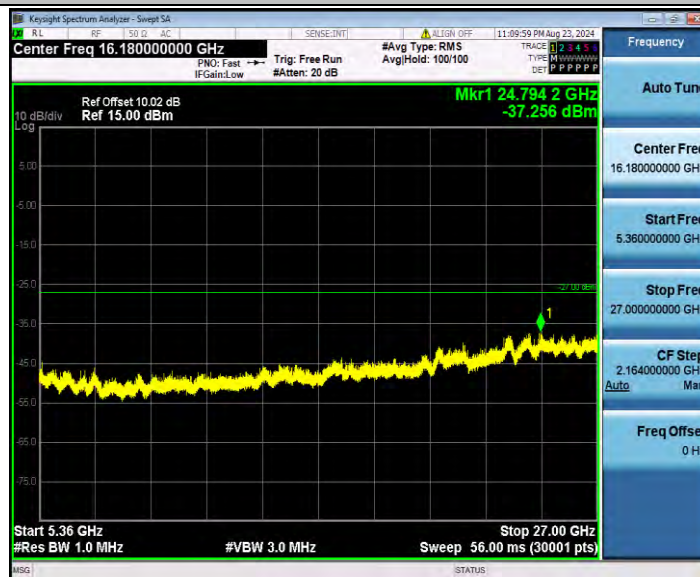
11N20SISO_Ant2_5240_5360~27000



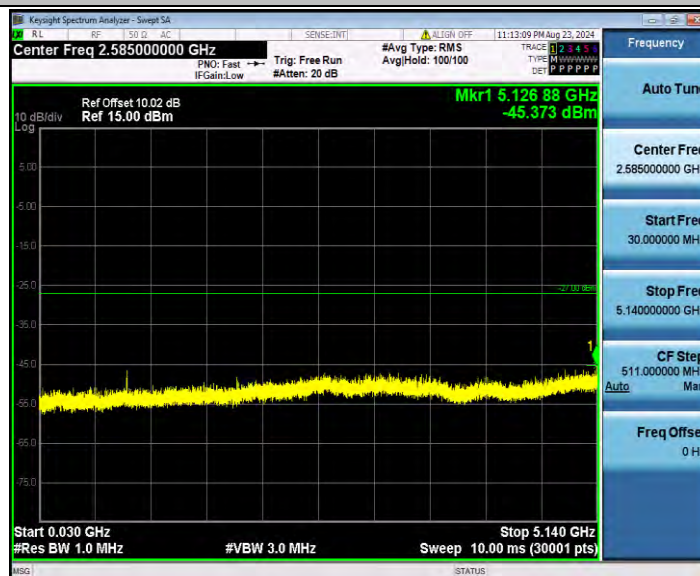
11N40SISO_Ant2_5190_30~5140



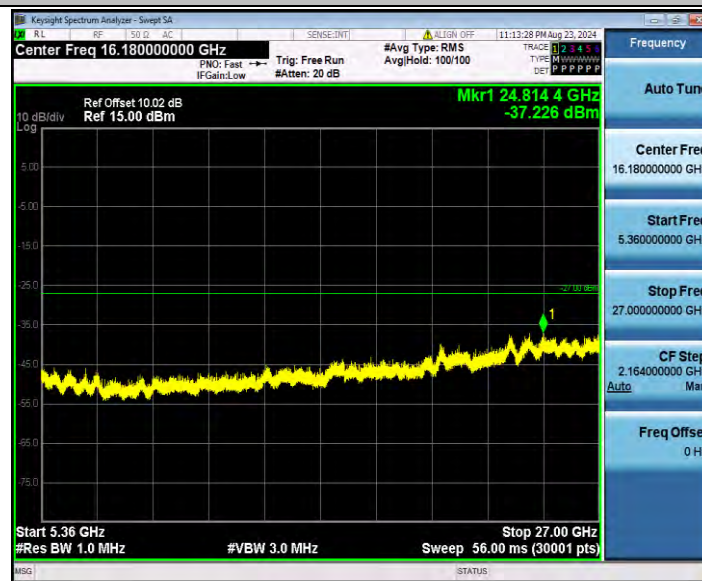
11N40SISO_Ant2_5190_5360~27000



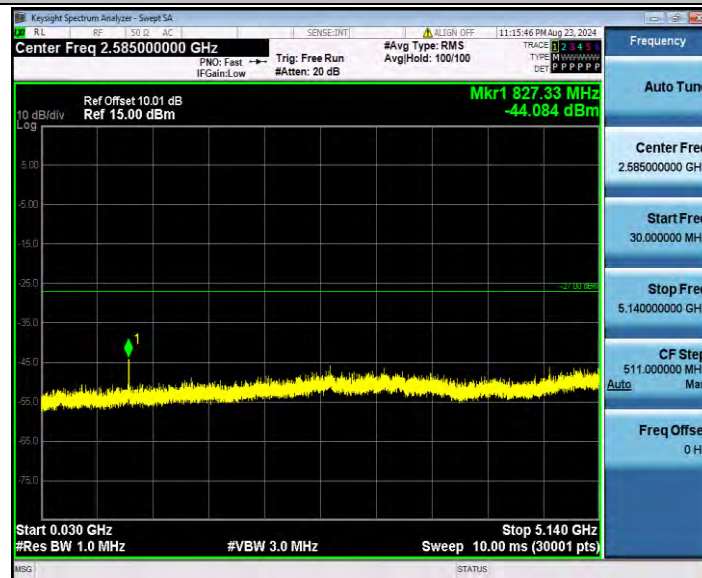
11N40SISO_Ant2_5230_30~5140



11N40SISO_Ant2_5230_5360~27000



11AC20SISO_Ant2_5180_30~5140



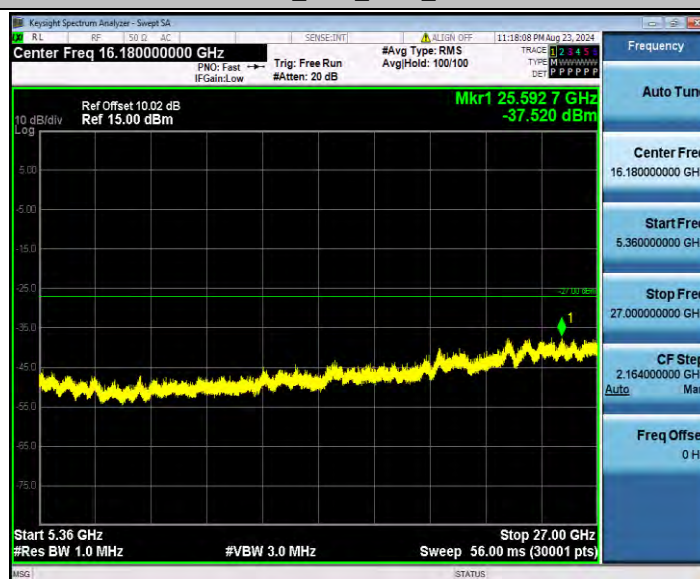
11AC20SISO_Ant2_5180_5360~27000



11AC20SISO_Ant2_5200_30~5140



11AC20SISO_Ant2_5200_5360~27000



11AC20SISO_Ant2_5240_30~5140



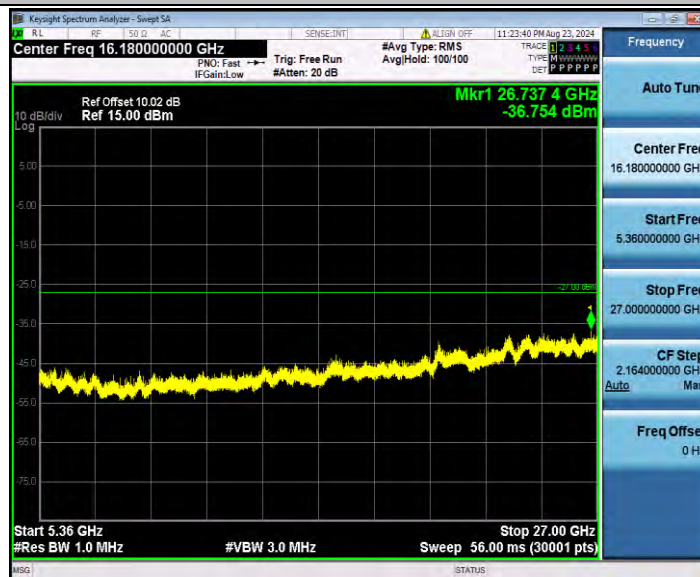
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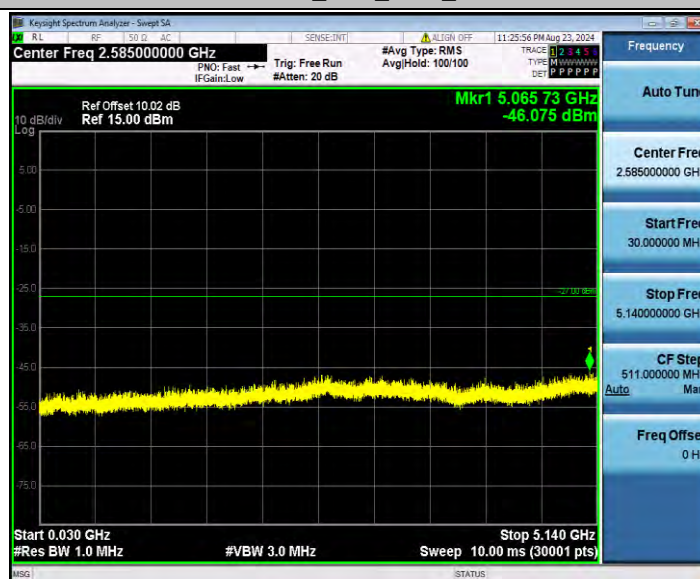
11AC40SISO_Ant2_5190_30~5140



11AC40SISO_Ant2_5190_5360~27000



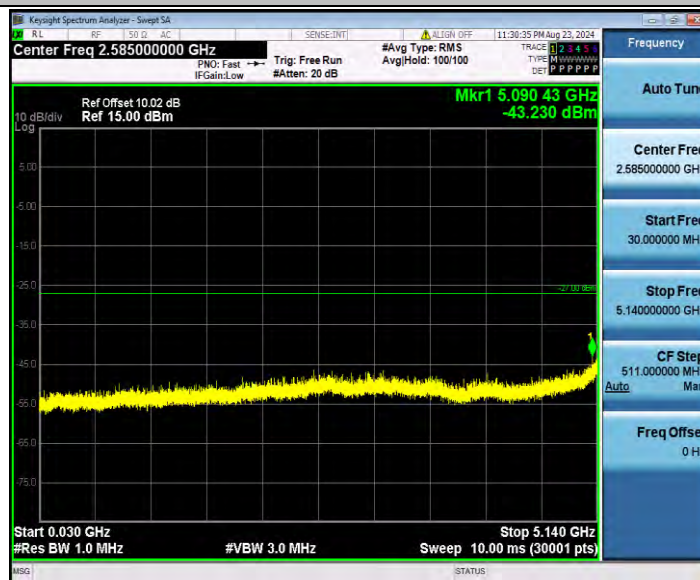
11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~27000



11AC80SISO_Ant2_5210_30~5140



11AC80SISO_Ant2_5210_5360~27000

