

Case No. : <u>GTS20230525016-1-11</u>
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.6.13</u> Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	21.560	5169.200	5190.760	---	---
		5200	21.920	5188.840	5210.760	---	---
		5240	21.200	5229.480	5250.680	---	---
11N20SISO	Ant2	5180	22.280	5168.920	5191.200	---	---
		5200	22.360	5188.680	5211.040	---	---
		5240	21.800	5229.080	5250.880	---	---
11N40SISO	Ant2	5190	42.000	5168.960	5210.960	---	---
		5230	41.360	5209.440	5250.800	---	---
11AC20SISO	Ant2	5180	21.440	5169.160	5190.600	---	---
		5200	21.760	5189.280	5211.040	---	---
		5240	22.280	5228.880	5251.160	---	---
11AC40SISO	Ant2	5190	41.280	5169.360	5210.640	---	---
		5230	41.440	5209.280	5250.720	---	---
11AC80SISO	Ant2	5210	90.080	5167.120	5257.200	---	---

Test Graphs



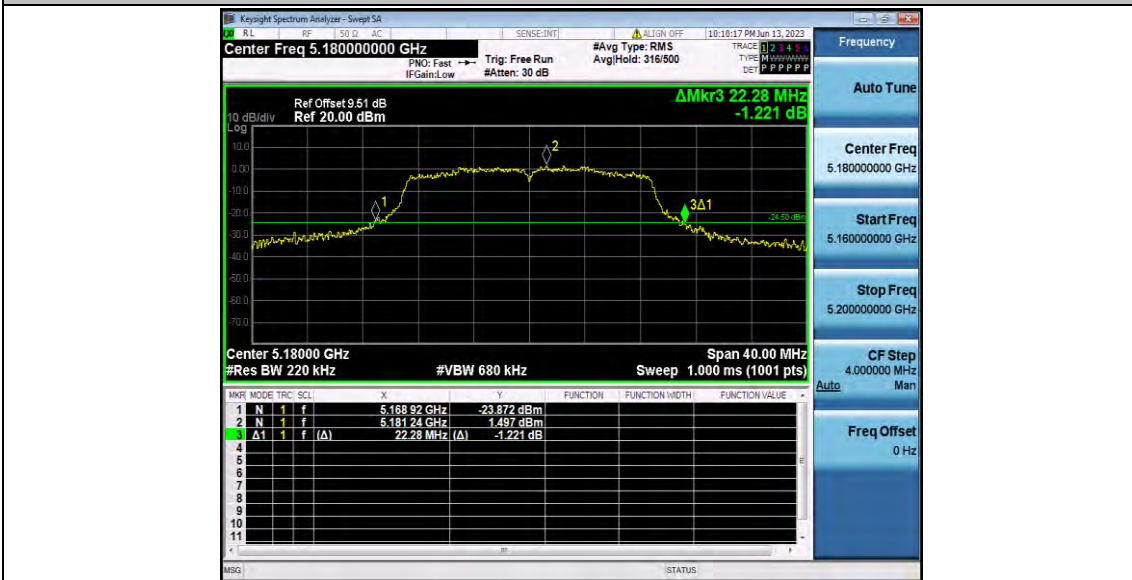
11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



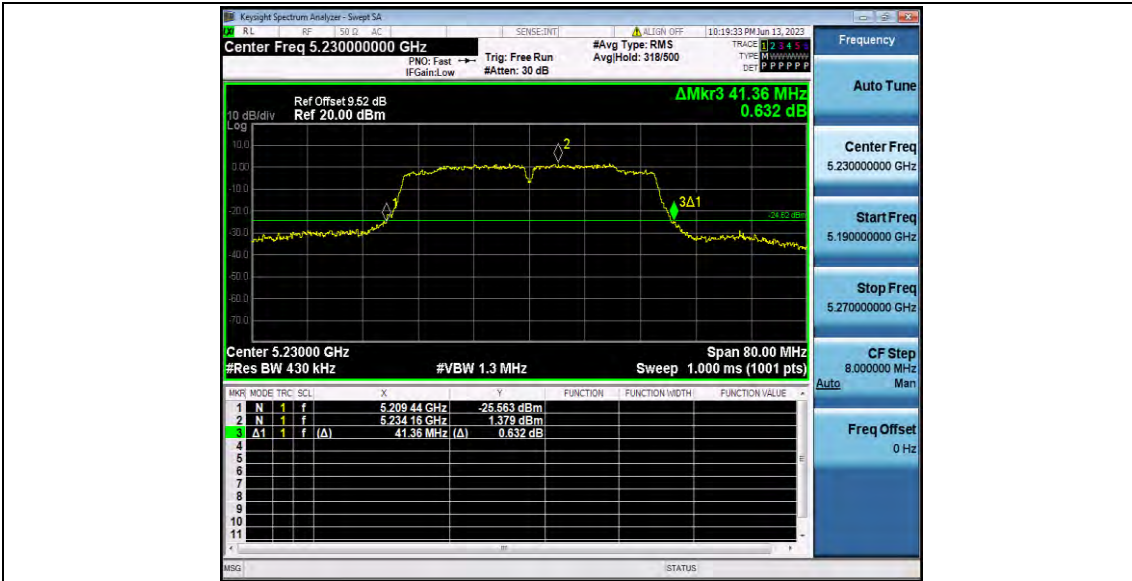
11N20SISO_Ant2_5200



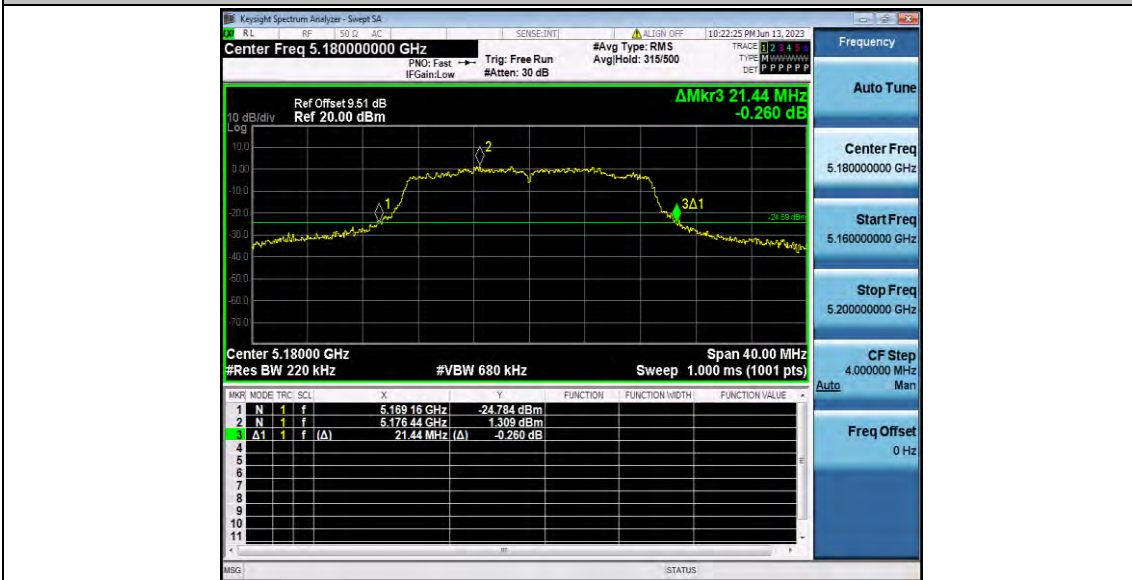
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



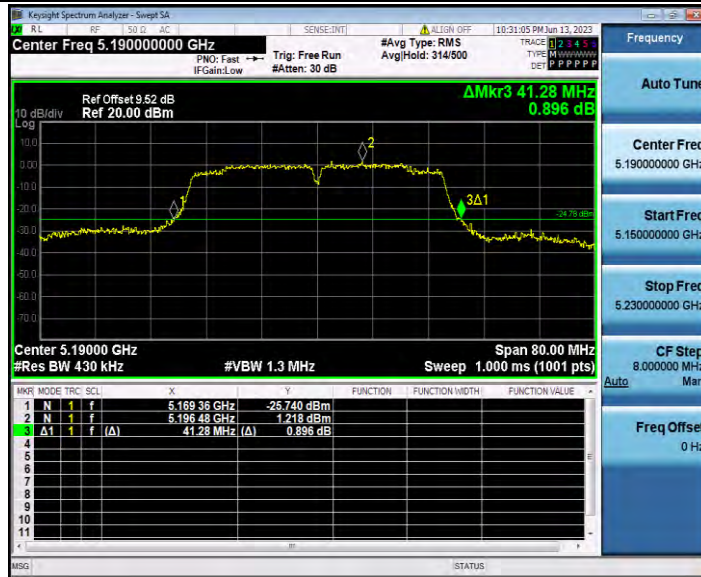
11AC20SISO_Ant2_5180



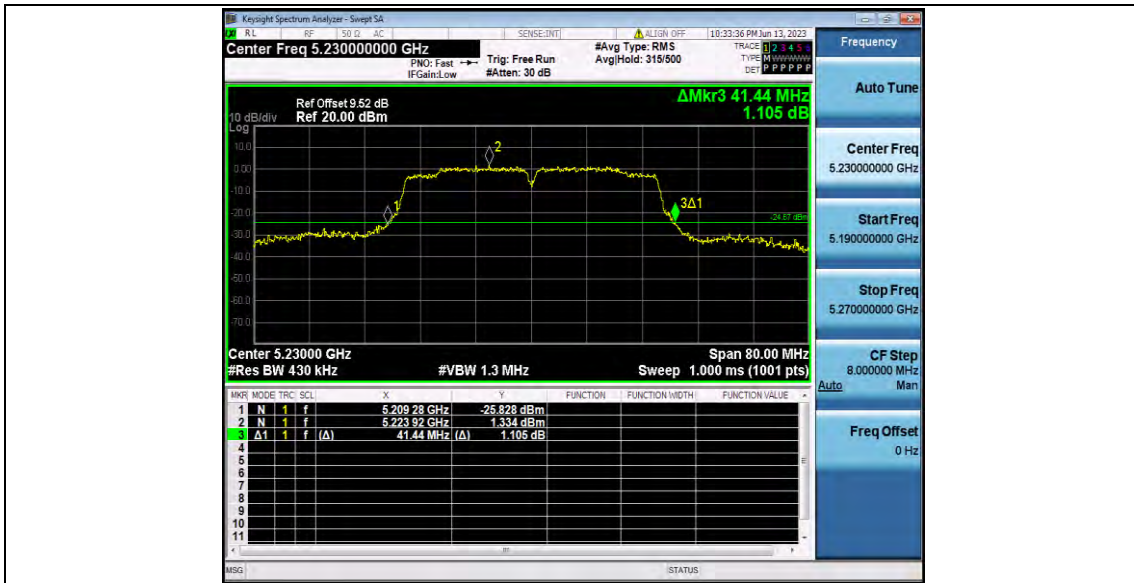
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

Appendix D.2: Occupied channel bandwidth

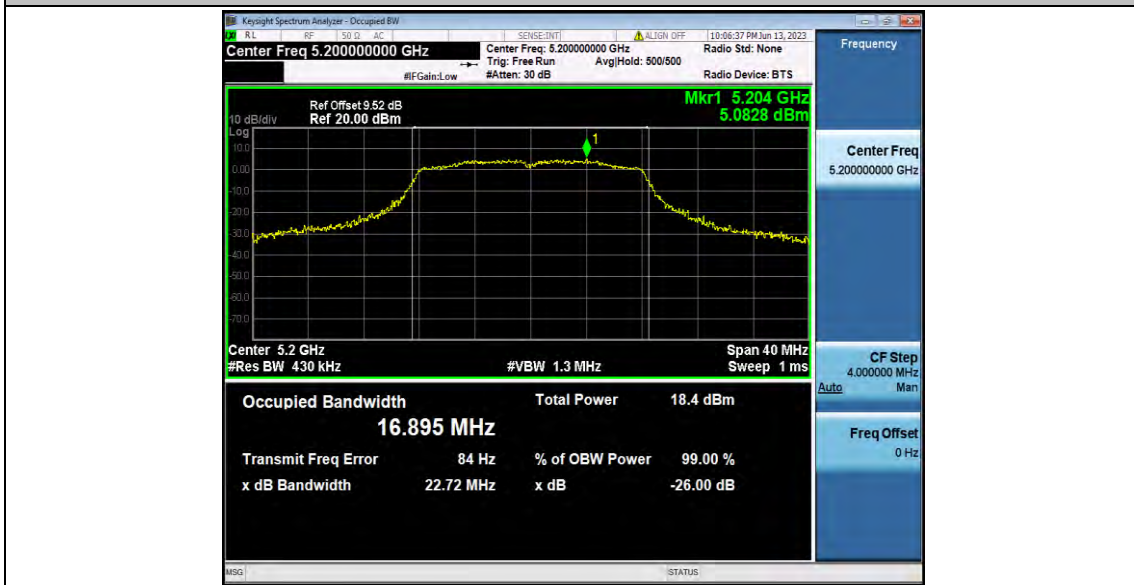
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	16.916	5171.545	5188.461	---	---
		5200	16.895	5191.553	5208.448	---	---
		5240	16.859	5231.555	5248.414	---	---
11N20SISO	Ant2	5180	18.020	5170.985	5189.005	---	---
		5200	17.998	5191.011	5209.009	---	---
		5240	17.974	5231.023	5248.997	---	---
11N40SISO	Ant2	5190	36.358	5171.884	5208.242	---	---
		5230	36.320	5211.879	5248.199	---	---
11AC20SISO	Ant2	5180	18.023	5170.983	5189.006	---	---
		5200	18.032	5190.981	5209.013	---	---
		5240	17.991	5230.998	5248.989	---	---
11AC40SISO	Ant2	5190	36.373	5171.857	5208.230	---	---
		5230	36.317	5211.894	5248.211	---	---
11AC80SISO	Ant2	5210	75.518	5172.364	5247.882	---	---

Test Graphs



11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



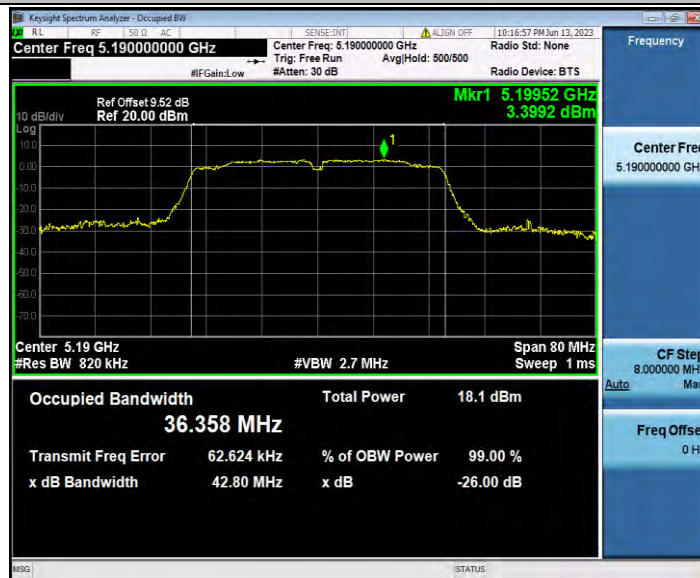
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



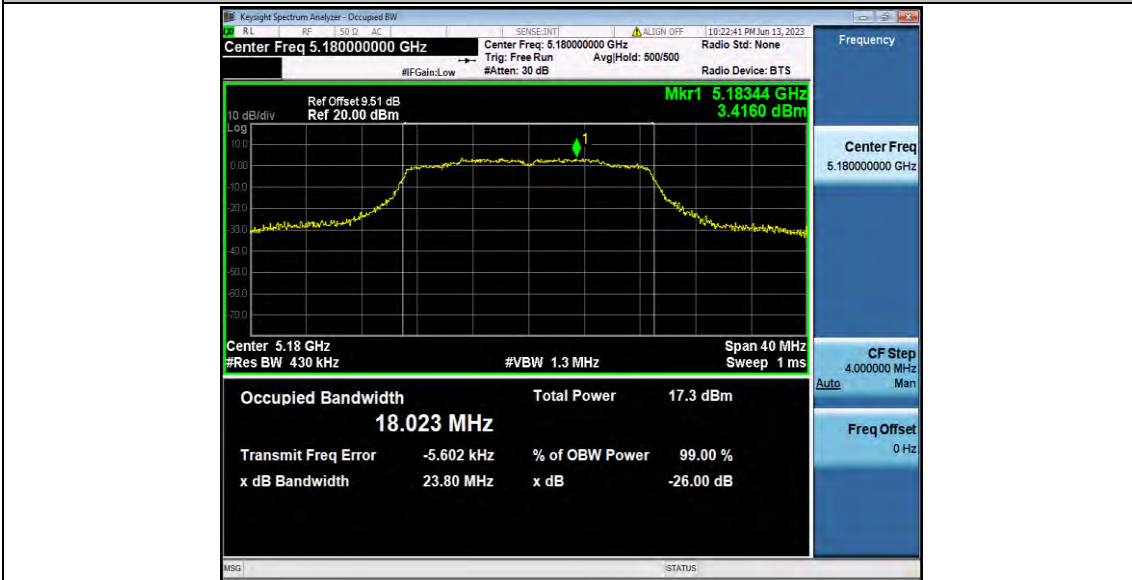
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



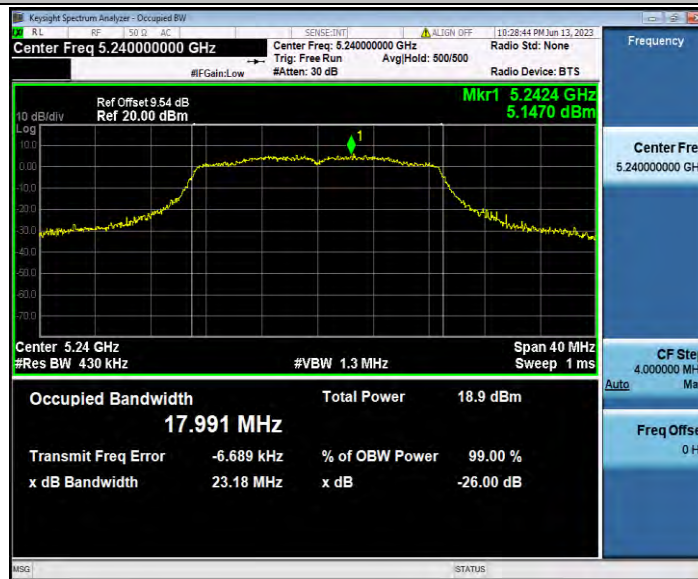
11N40SISO_Ant2_5230



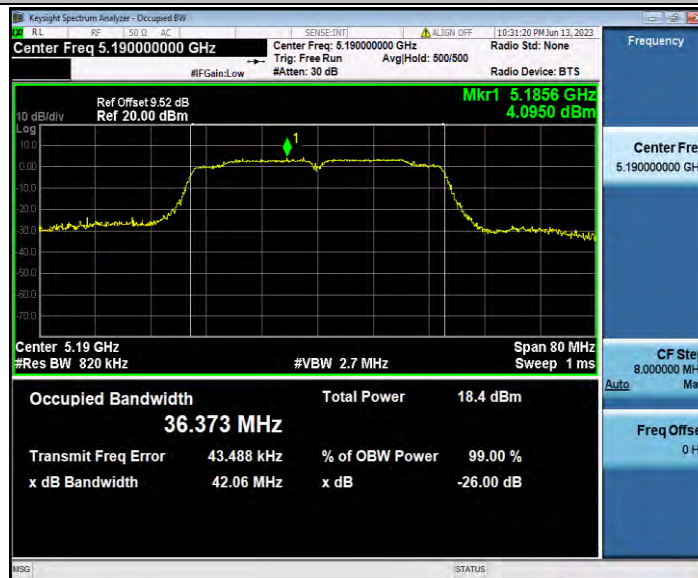
11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



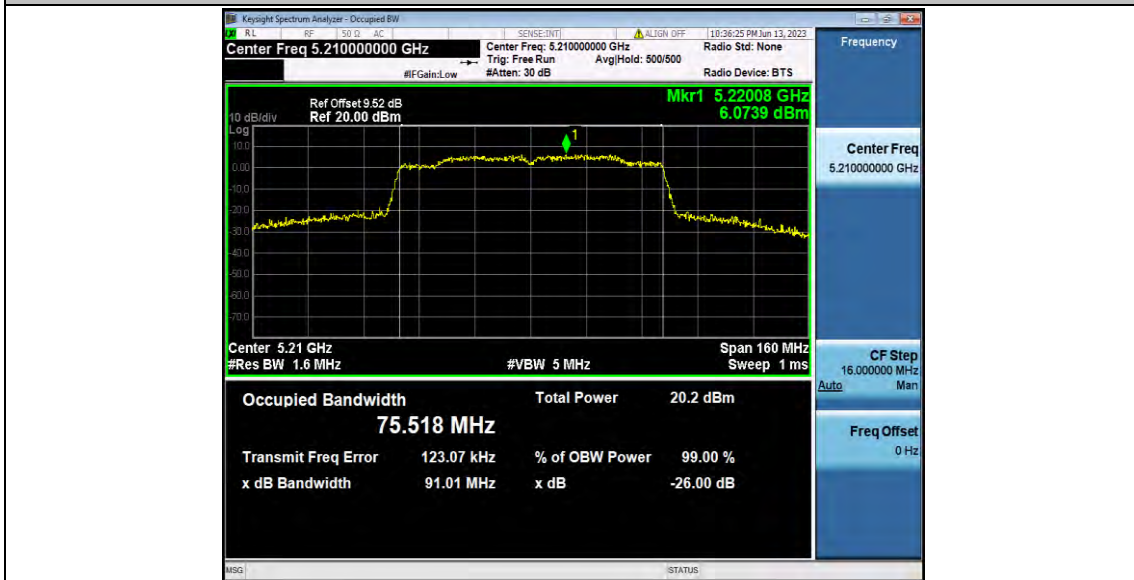
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



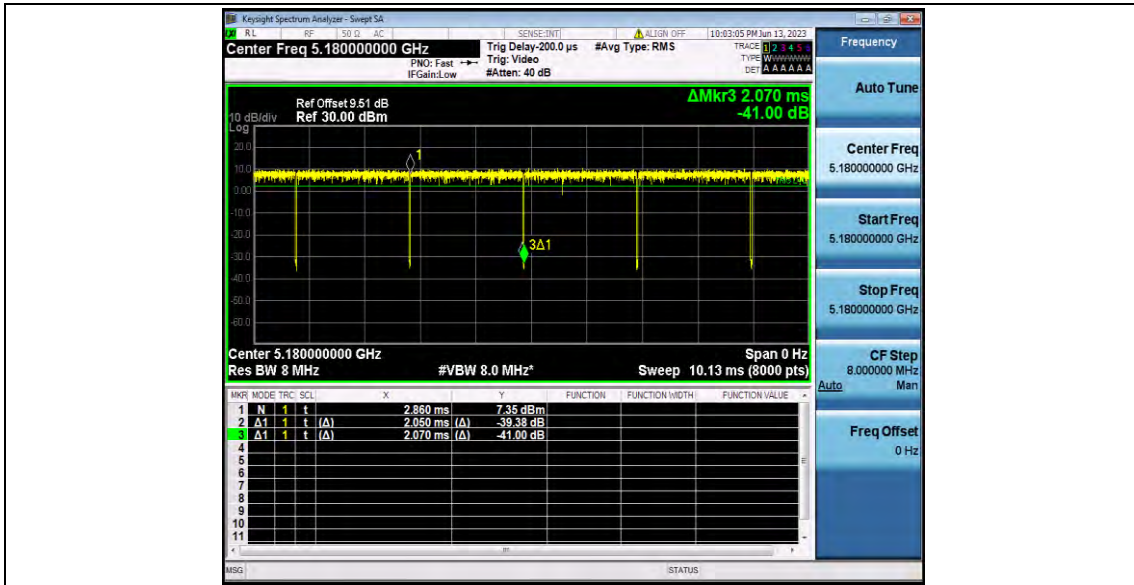
11AC80SISO_Ant2_5210

Appendix D.3: Duty Cycle

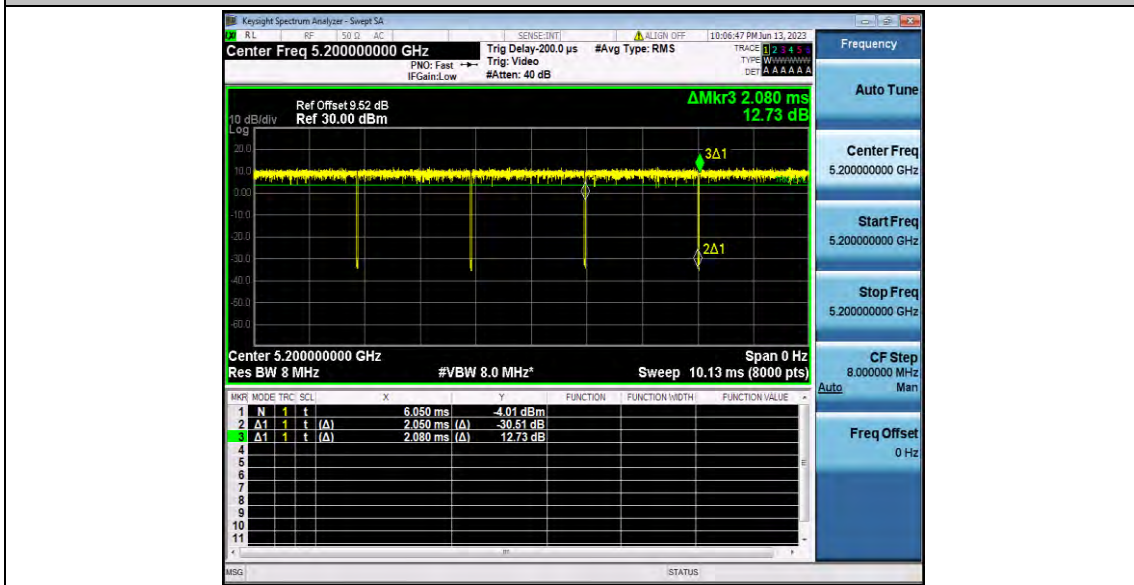
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.05	2.07	99.03
		5200	2.05	2.08	98.56
		5240	2.04	2.07	98.55
11N20SISO	Ant2	5180	1.91	1.93	98.96
		5200	1.91	1.93	98.96
		5240	1.91	1.94	98.45
11N40SISO	Ant2	5190	0.94	0.97	96.91
		5230	0.93	0.96	96.88
11AC20SISO	Ant2	5180	1.91	1.94	98.45
		5200	1.92	1.95	98.46
		5240	1.91	1.94	98.45
11AC40SISO	Ant2	5190	0.95	0.97	97.94
		5230	0.94	0.97	96.91
11AC80SISO	Ant2	5210	0.44	0.47	93.62

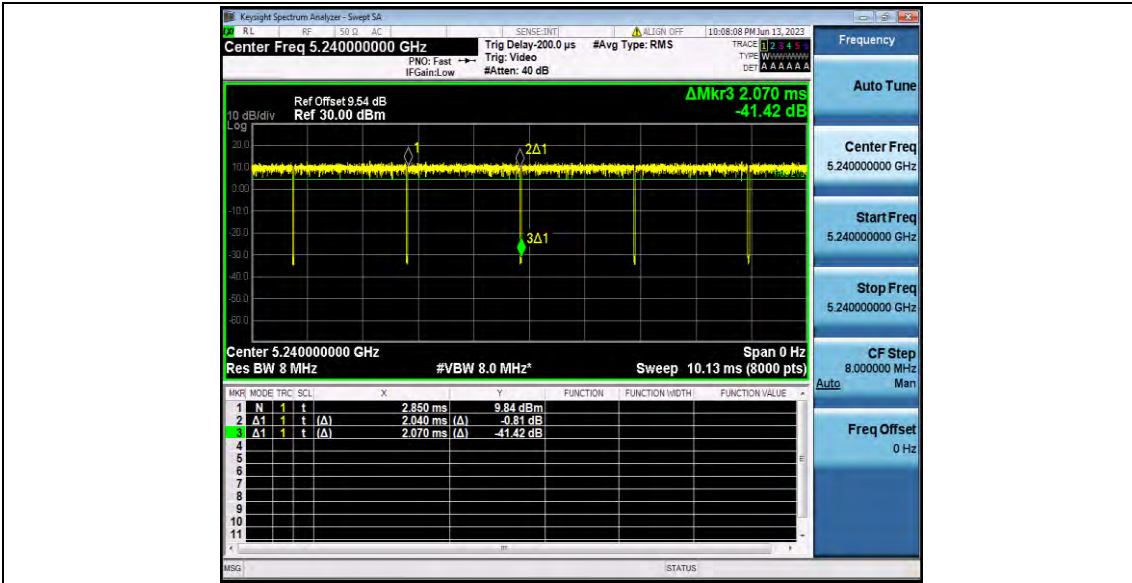
Test Graphs



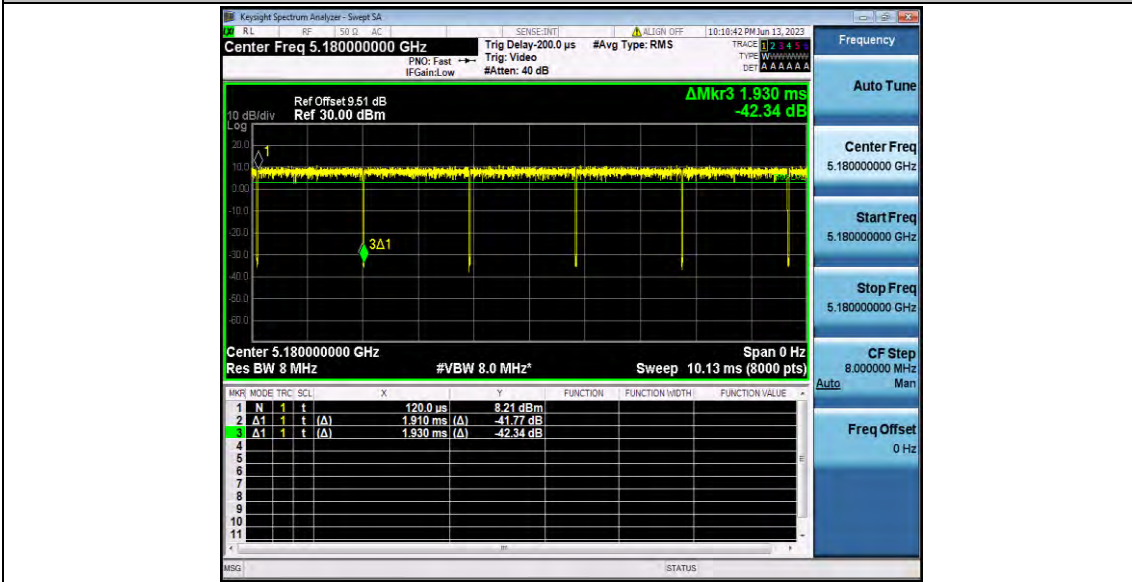
11A_Ant2_5180



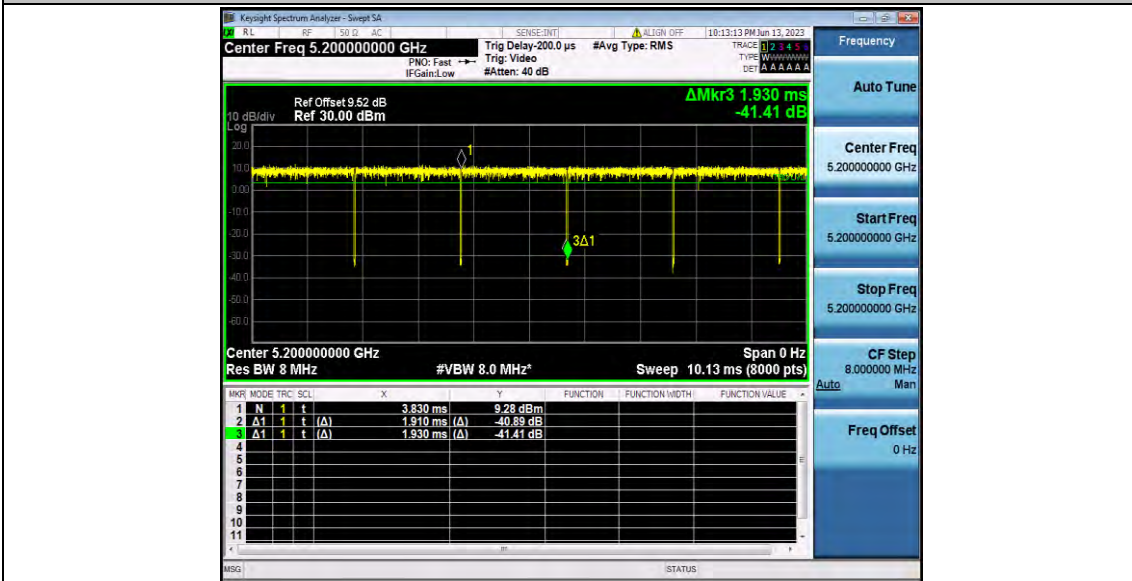
11A_Ant2_5200



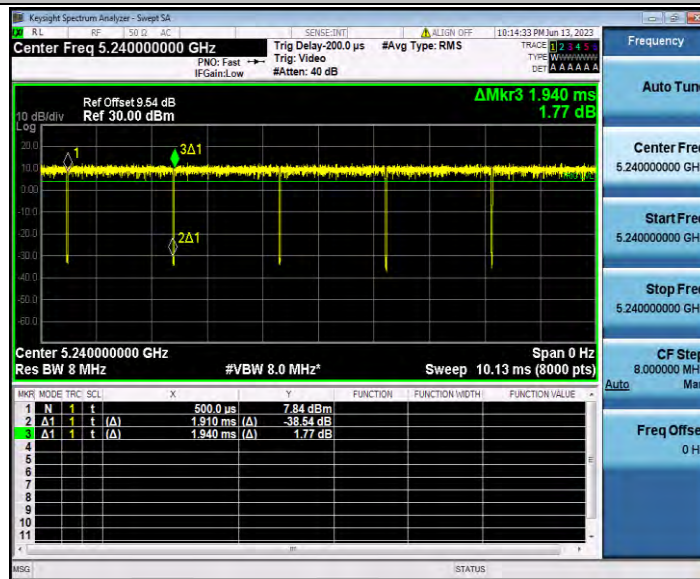
11A_Ant2_5240



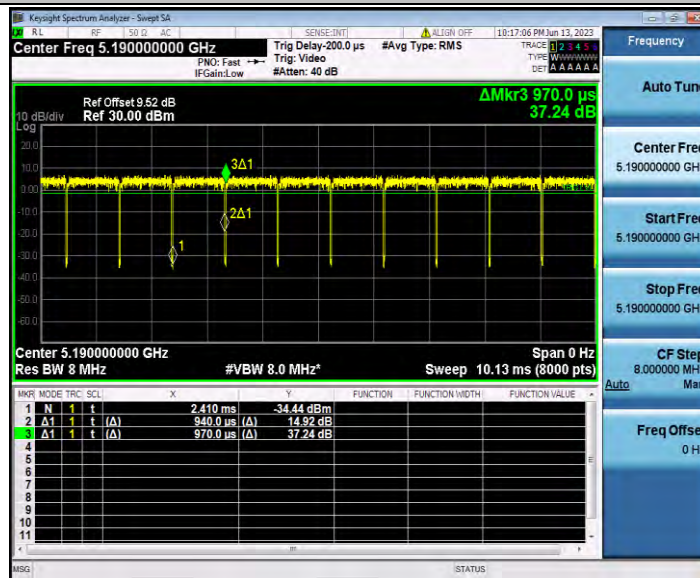
11N20SISO_Ant2_5180



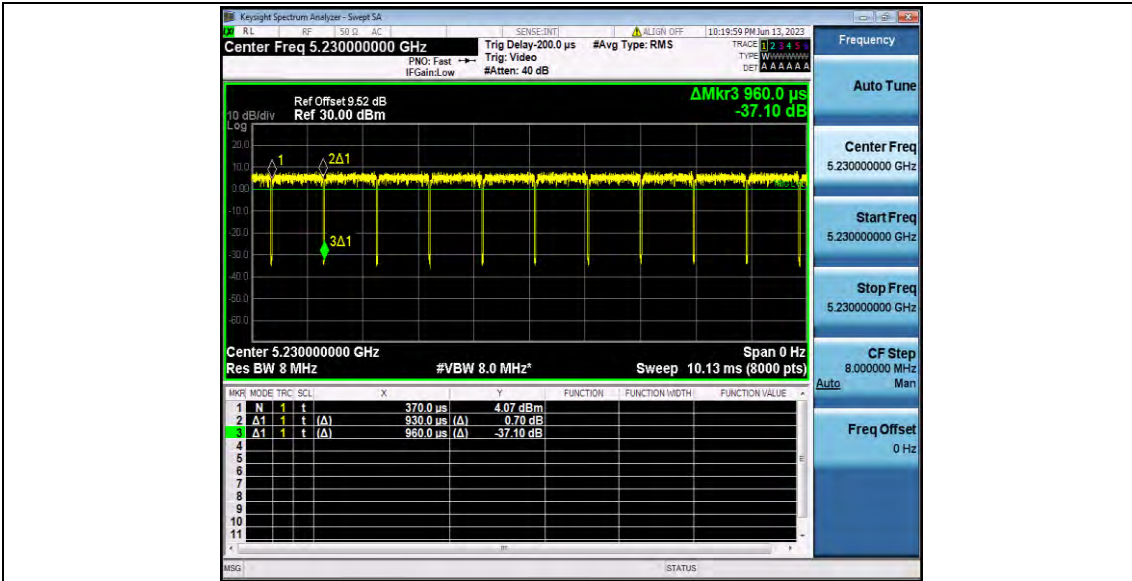
11N20SISO_Ant2_5200



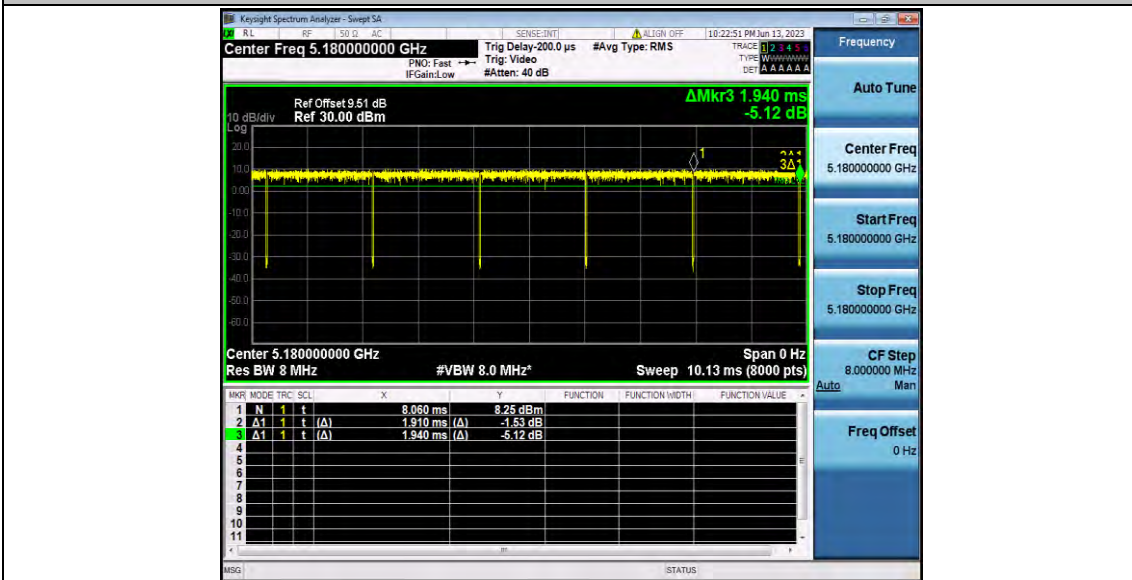
11N20SISO_Ant2_5240



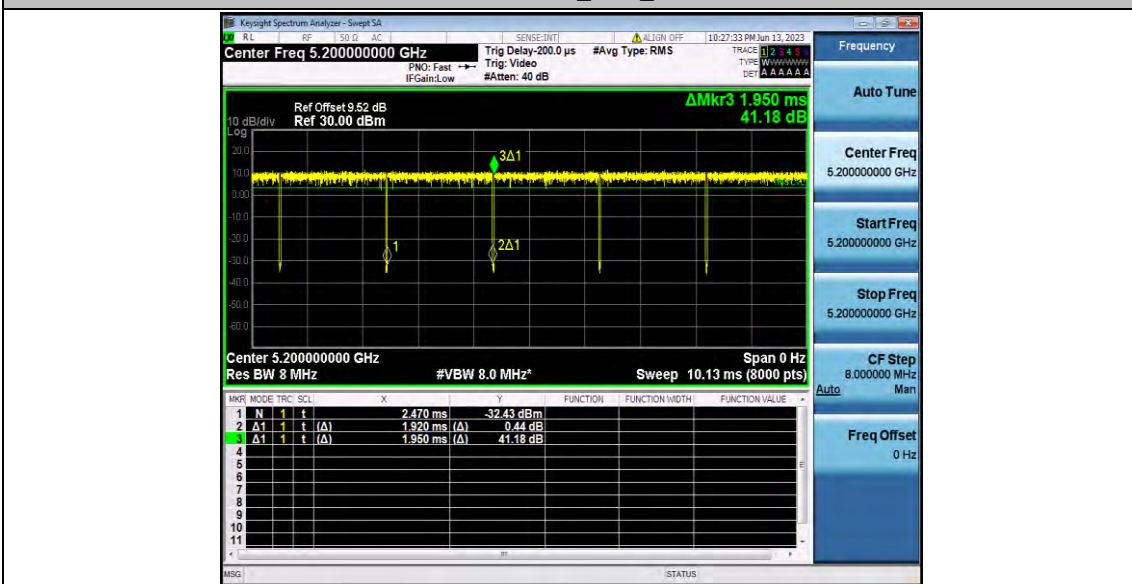
11N40SISO_Ant2_5190



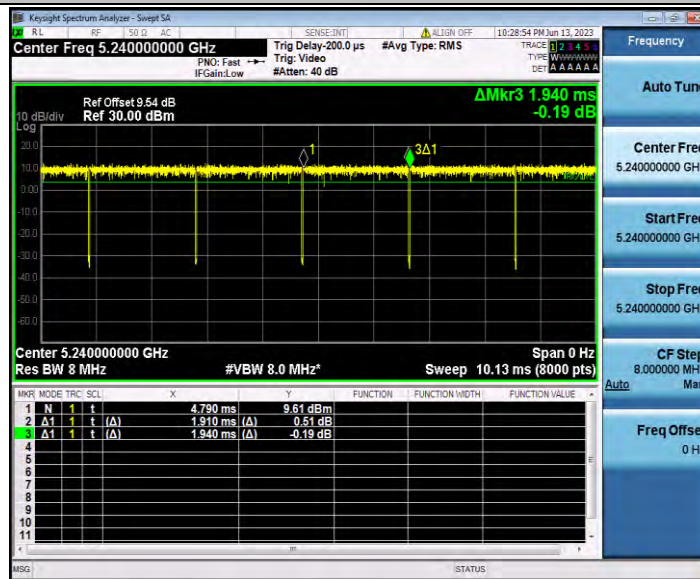
11N40SISO_Ant2_5230



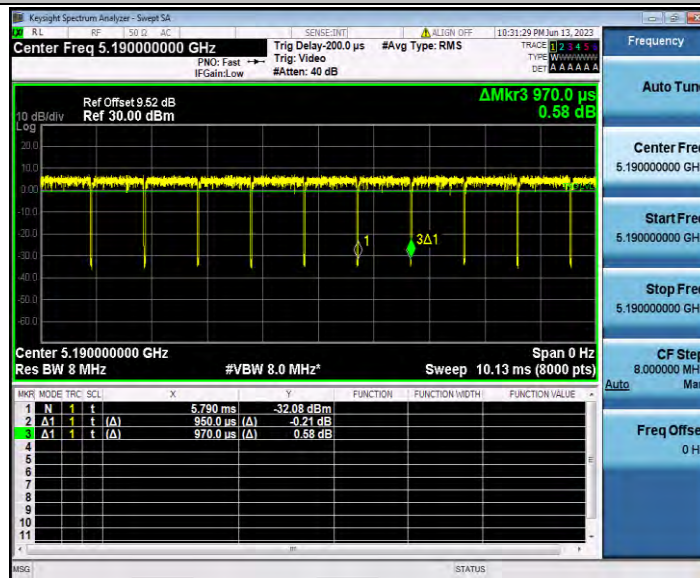
11A120SISO_Ant2_5180



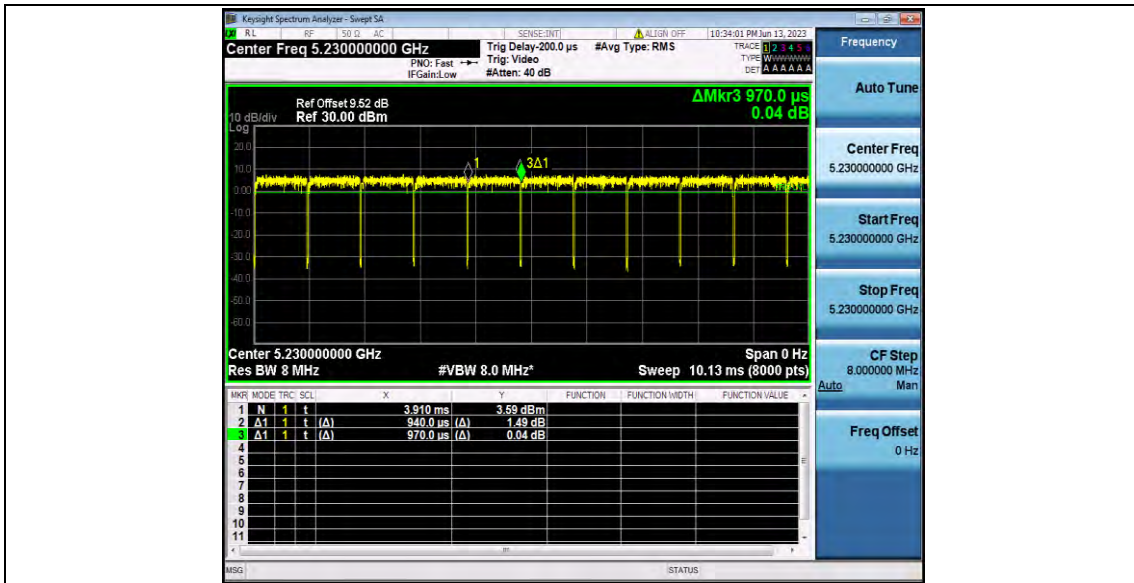
11AC20SISO_Ant2_5200



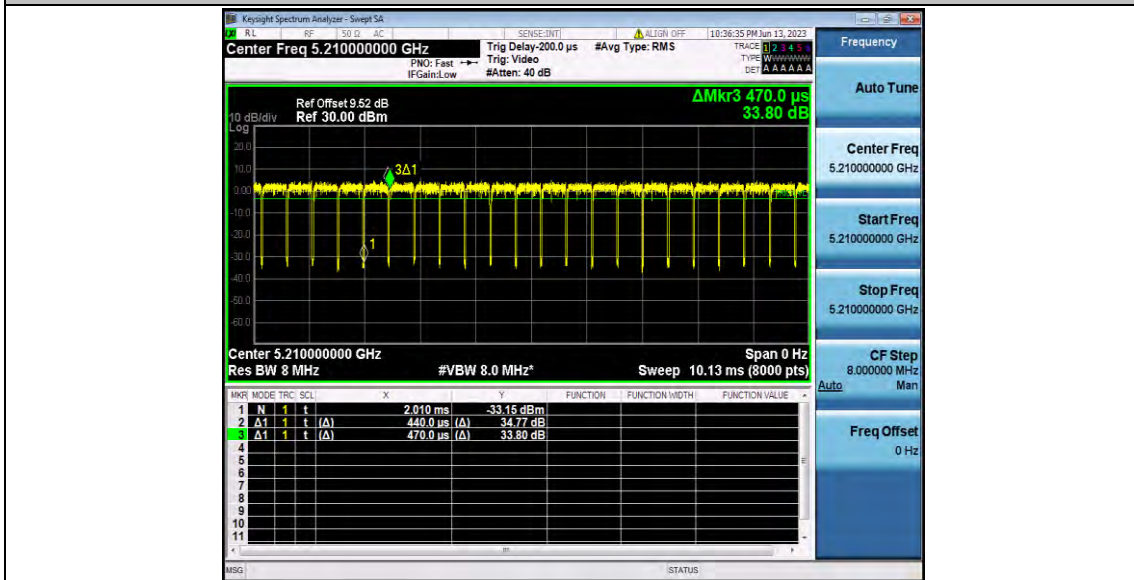
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

Appendix D.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	5180	10.40	99.03	0.04	10.44	≤23.98	PASS
		5200	11.58	98.56	0.06	11.64	≤23.98	PASS
		5240	12.24	98.55	0.06	12.30	≤23.98	PASS
11N20SISO	Ant2	5180	10.88	98.96	0.05	10.93	≤23.98	PASS
		5200	11.42	98.96	0.05	11.47	≤23.98	PASS
		5240	12.08	98.45	0.07	12.15	≤23.98	PASS
11N40SISO	Ant2	5190	10.45	96.91	0.14	10.59	≤23.98	PASS
		5230	11.67	96.88	0.14	11.81	≤23.98	PASS
11AC20SISO	Ant2	5180	10.52	98.45	0.07	10.59	≤23.98	PASS
		5200	11.32	98.46	0.07	11.39	≤23.98	PASS
		5240	11.99	98.45	0.07	12.06	≤23.98	PASS
11AC40SISO	Ant2	5190	10.84	97.94	0.09	10.93	≤23.98	PASS
		5230	11.22	96.91	0.14	11.36	≤23.98	PASS
11AC80SISO	Ant2	5210	11.08	93.62	0.29	11.37	≤23.98	PASS

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

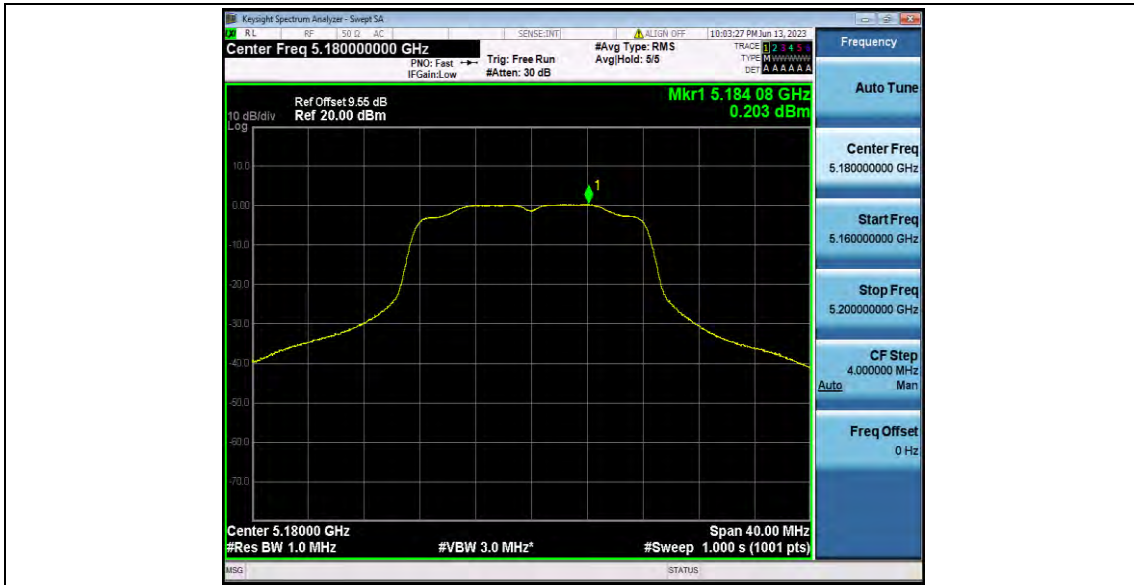
Appendix D.5: Maximum power spectral density

Test Result

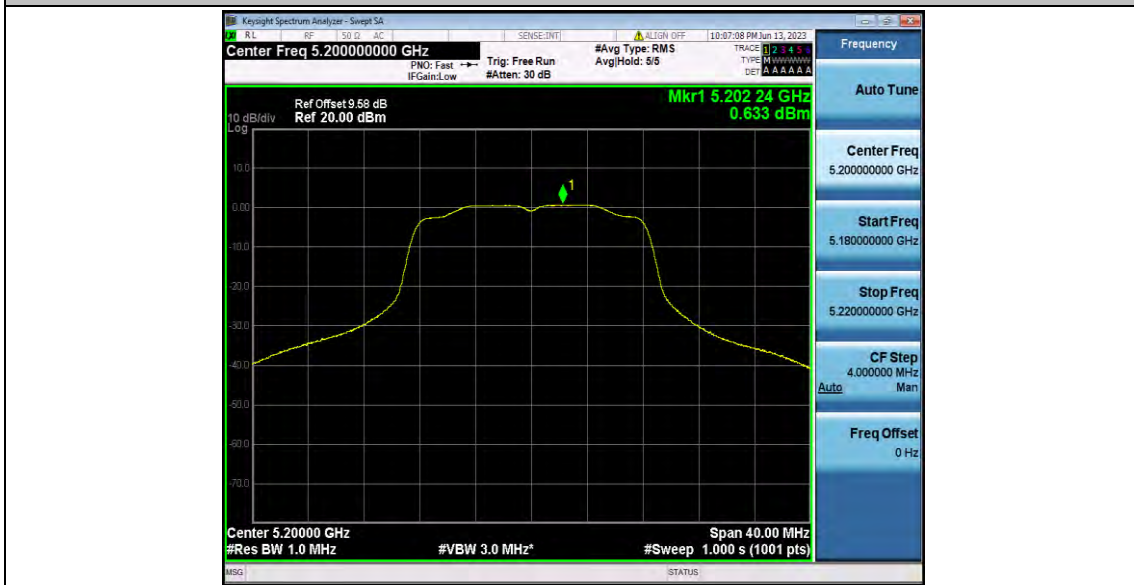
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	0.2	≤11.00	PASS
		5200	0.63	≤11.00	PASS
		5240	1.85	≤11.00	PASS
11N20SISO	Ant2	5180	-0.24	≤11.00	PASS
		5200	0.34	≤11.00	PASS
		5240	1.54	≤11.00	PASS
11N40SISO	Ant2	5190	-3.27	≤11.00	PASS
		5230	-2.08	≤11.00	PASS
11AC20SISO	Ant2	5180	-0.3	≤11.00	PASS
		5200	0.28	≤11.00	PASS
		5240	1.01	≤11.00	PASS
11AC40SISO	Ant2	5190	-3.32	≤11.00	PASS
		5230	-2.06	≤11.00	PASS
11AC80SISO	Ant2	5210	-4.59	≤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.

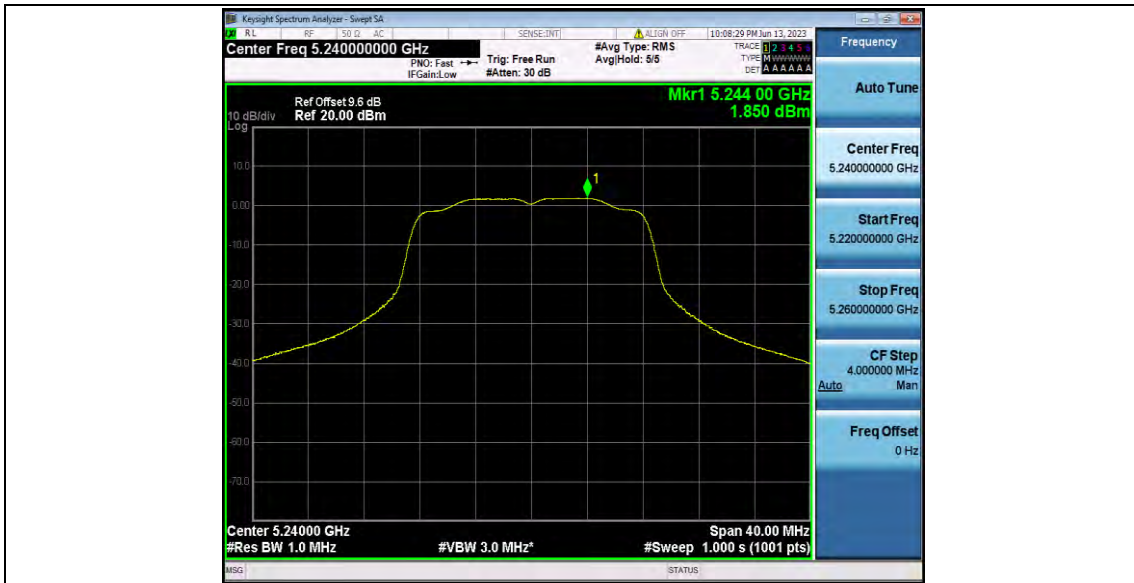
Test Graphs



11A_Ant2_5180



11A_Ant2_5200



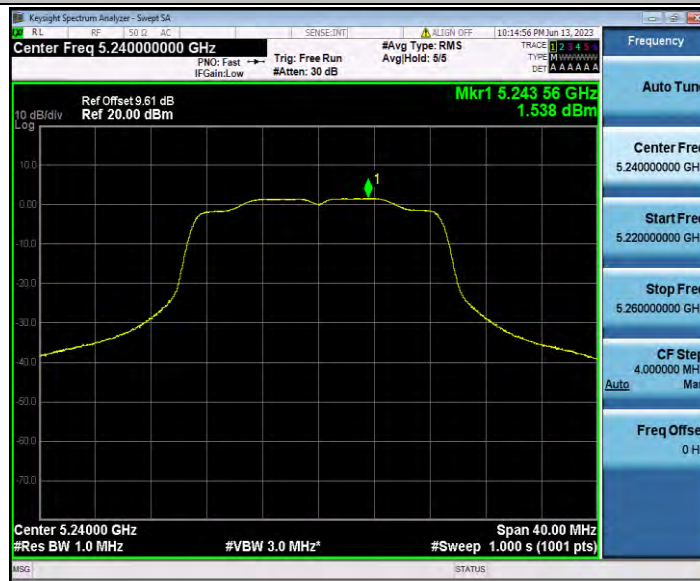
11A_Ant2_5240



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



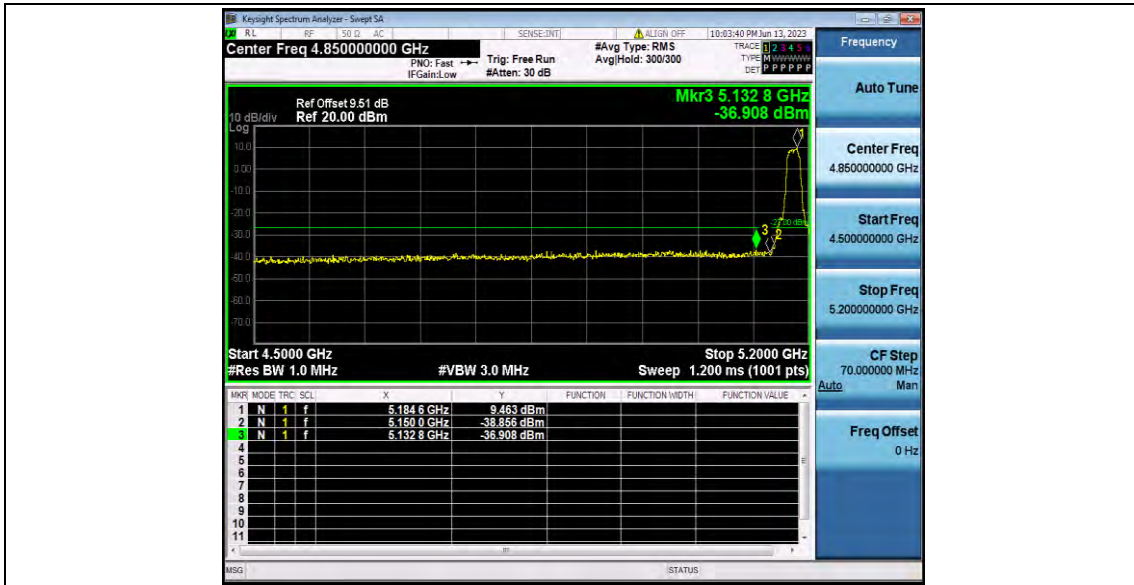
11AC80SISO_Ant2_5210

Appendix D.6: Band edge measurements

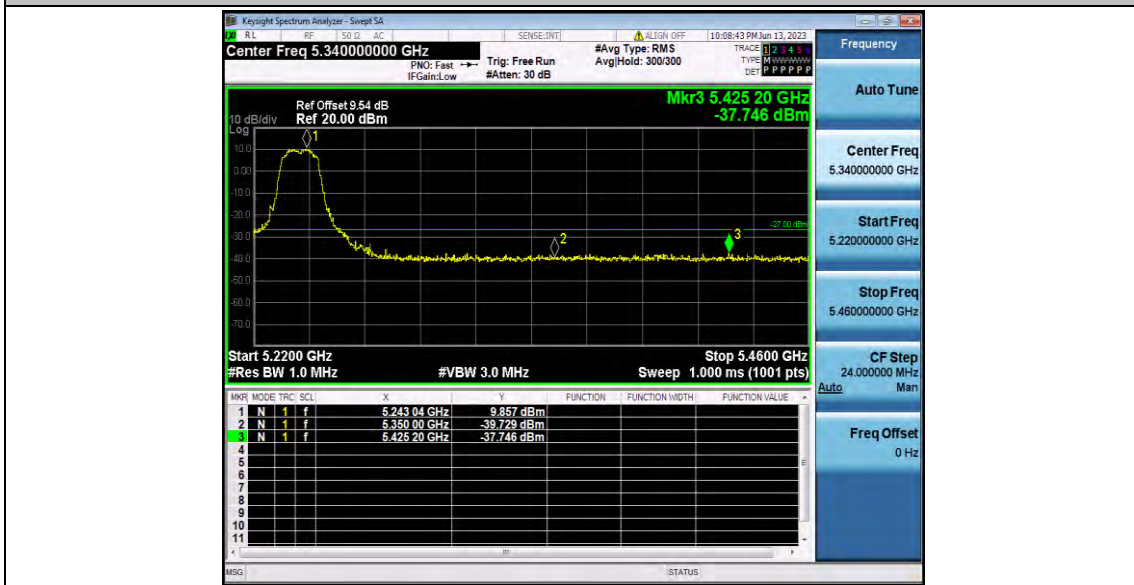
Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-36.91	≤ -27	PASS
		High	5240	-37.75	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-36.47	≤ -27	PASS
		High	5240	-36.73	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-36.58	≤ -27	PASS
		High	5230	-37.56	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-35.98	≤ -27	PASS
		High	5240	-37.64	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-27.38	≤ -27	PASS
		High	5230	-37.48	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-29.36	≤ -27	PASS
		High	5210	-38.04	≤ -27	PASS

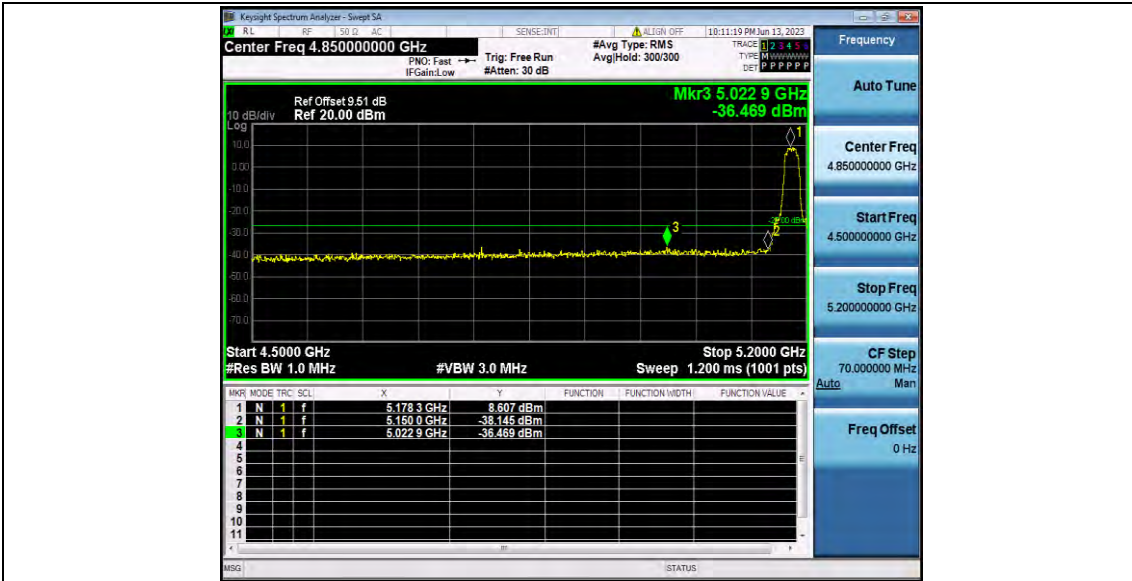
Test Graphs B1



11A_Ant2_Low_5180



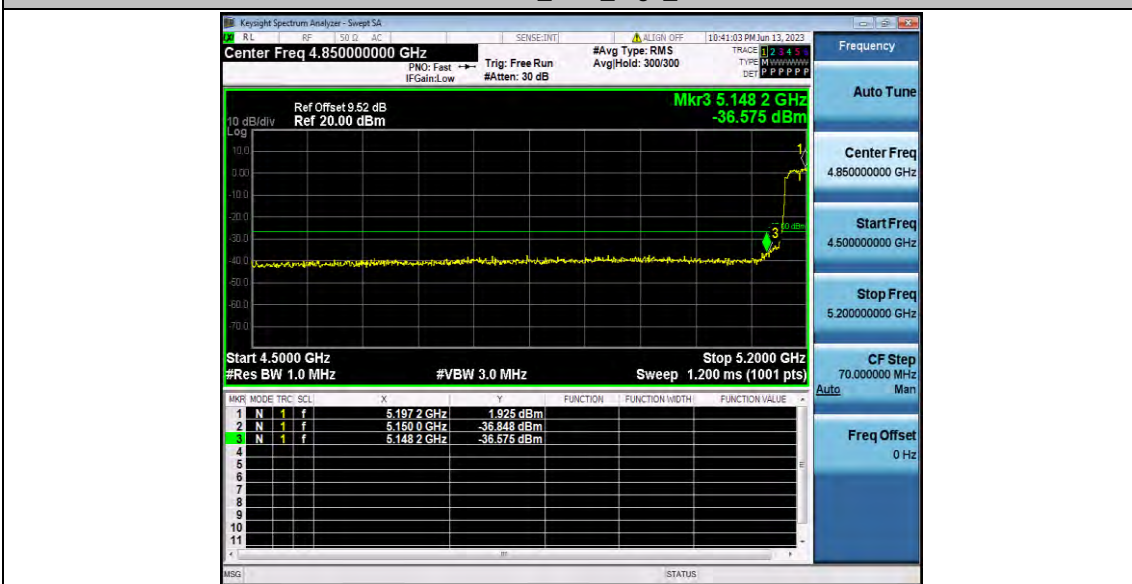
11A_Ant2_High_5240



11N20SISO_Ant2_Low_5180



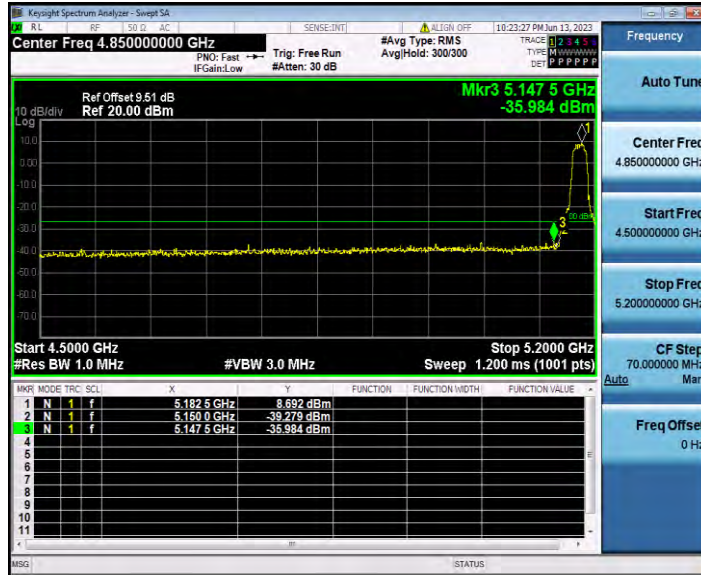
11N20SISO_Ant2_High_5240



11N40SISO_Ant2_Low_5190



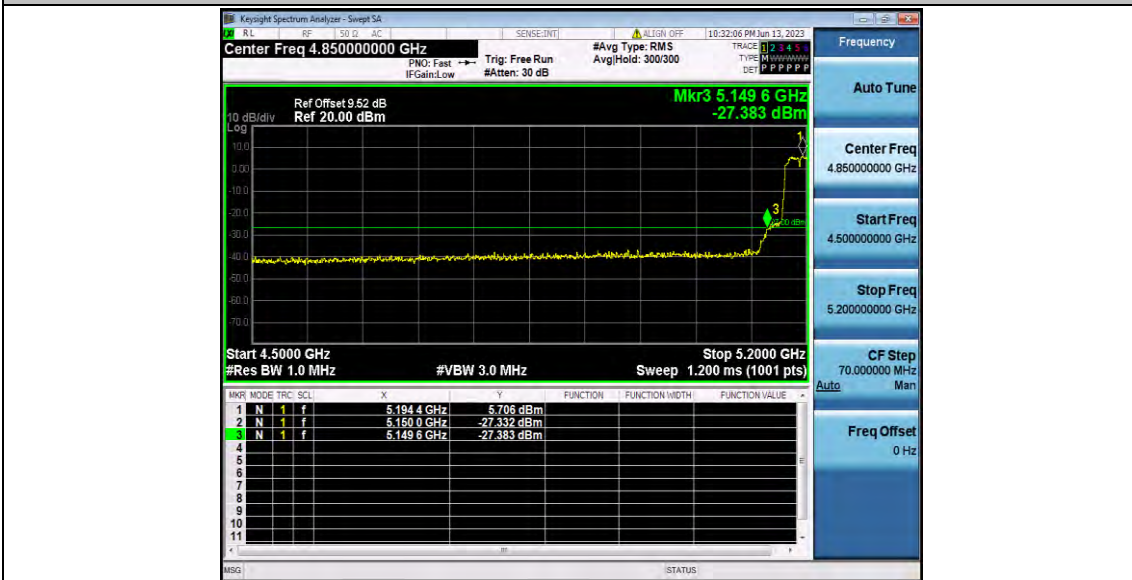
11N40SISO_Ant2_High_5230



11AC20SISO_Ant2_Low_5180



11AC20SISO_Ant2_High_5240



11AC40SISO_Ant2_Low_5190



11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



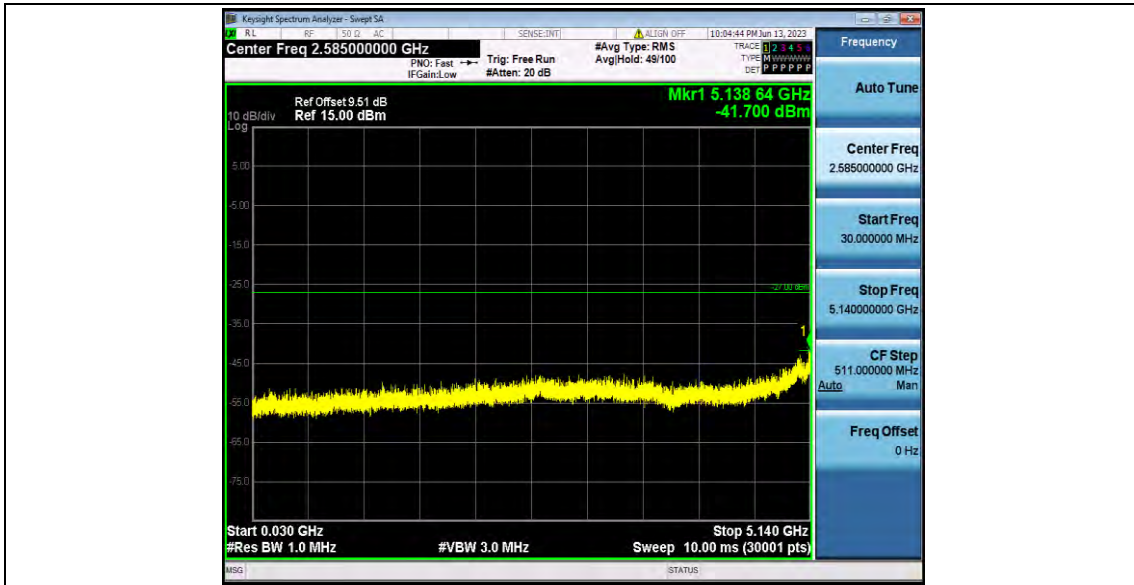
11AC80SISO_Ant2_High_5210

Appendix D.7: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5138.64	-41.7	≤-27	PASS
			5360~40000	26502.28	-37.78	≤-27	PASS
		5200	30~5140	5138.47	-42.8	≤-27	PASS
			5360~40000	26932.19	-38.34	≤-27	PASS
		5240	30~5140	5084.64	-43.67	≤-27	PASS
			5360~40000	26867.27	-37.86	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5136.93	-42.36	≤-27	PASS
			5360~40000	26570.81	-37	≤-27	PASS
		5200	30~5140	5134.38	-43.88	≤-27	PASS
			5360~40000	26054.33	-37.56	≤-27	PASS
		5240	30~5140	5085.83	-44.29	≤-27	PASS
			5360~40000	26074.53	-37.78	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5139.66	-41.62	≤-27	PASS
			5360~40000	24247.39	-37.85	≤-27	PASS
		5230	30~5140	5082.09	-43.69	≤-27	PASS
			5360~40000	24244.51	-37.86	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5132.85	-42.09	≤-27	PASS
			5360~40000	24225.03	-36.99	≤-27	PASS
		5200	30~5140	5138.81	-43.5	≤-27	PASS
			5360~40000	24847.54	-37.78	≤-27	PASS
		5240	30~5140	5083.45	-44.68	≤-27	PASS
			5360~40000	26870.88	-37.07	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5139.83	-39.74	≤-27	PASS
			5360~40000	25154.11	-37.72	≤-27	PASS
		5230	30~5140	5111.55	-44.26	≤-27	PASS
			5360~40000	23530.39	-38.25	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5138.64	-41.7	≤-27	PASS
			5360~40000	24227.19	-38.33	≤-27	PASS

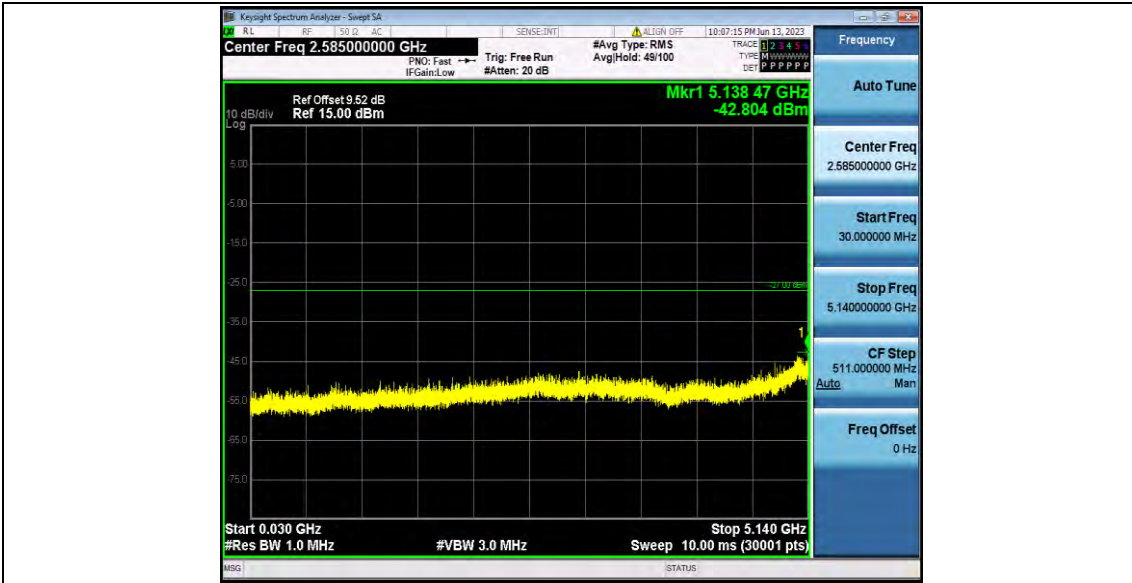
Test Graphs



11A_Ant2_5180_30~5140



11A_Ant2_5180_5360~40000



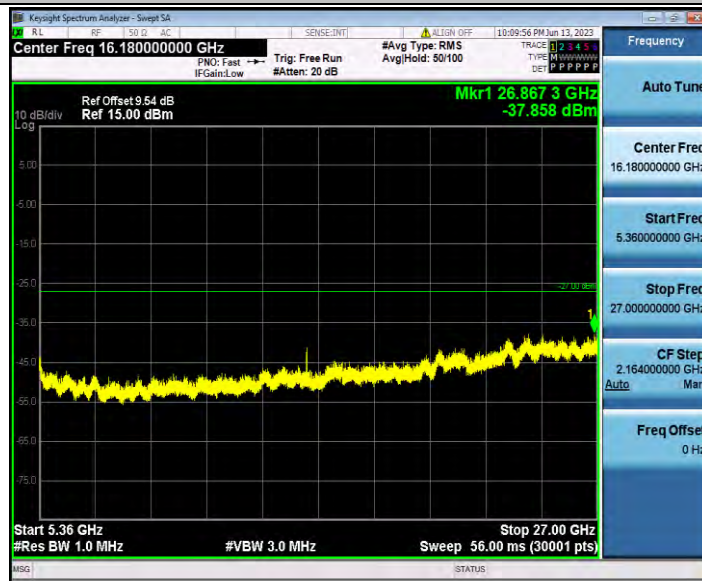
11A_Ant2_5200_30~5140



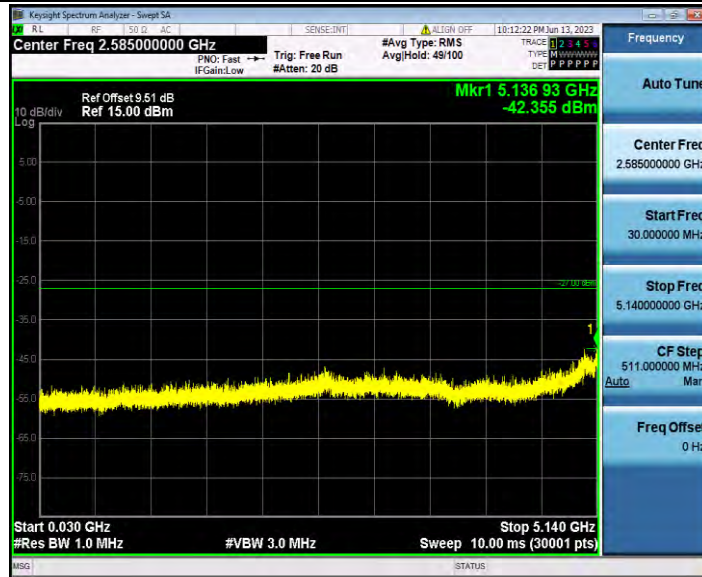
11A_Ant2_5200_5360~40000



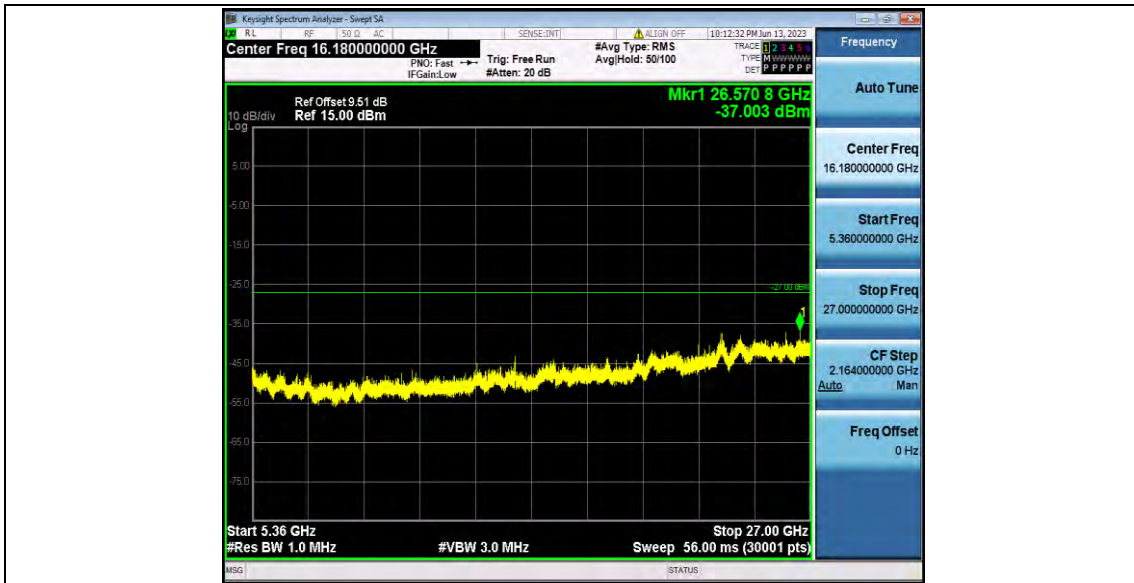
11A_Ant2_5240_30~5140



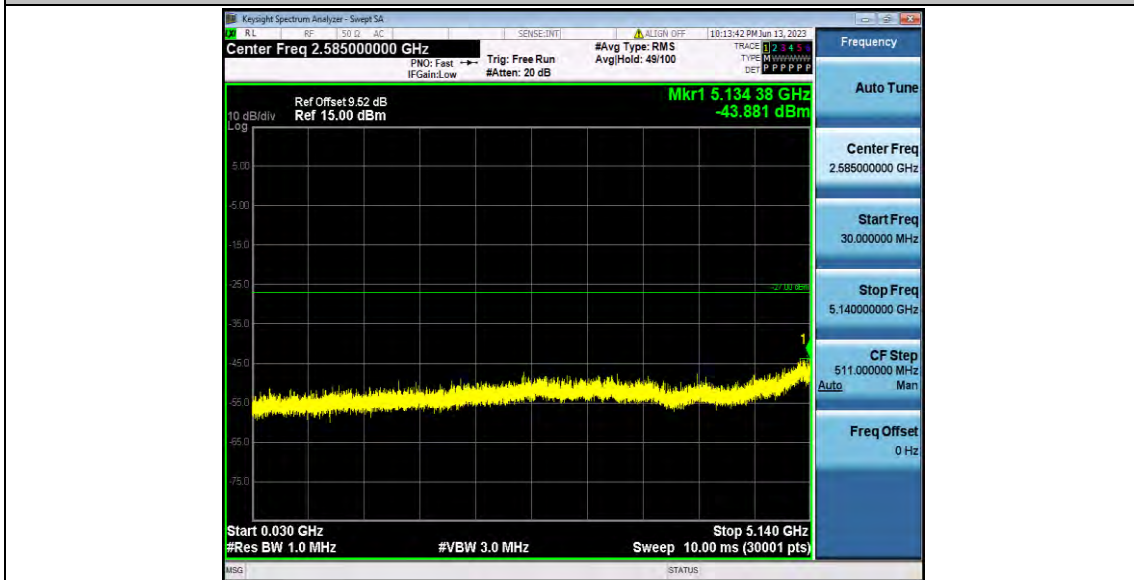
11A_Ant2_5240_5360~40000



11N20SISO_Ant2_5180_30~5140



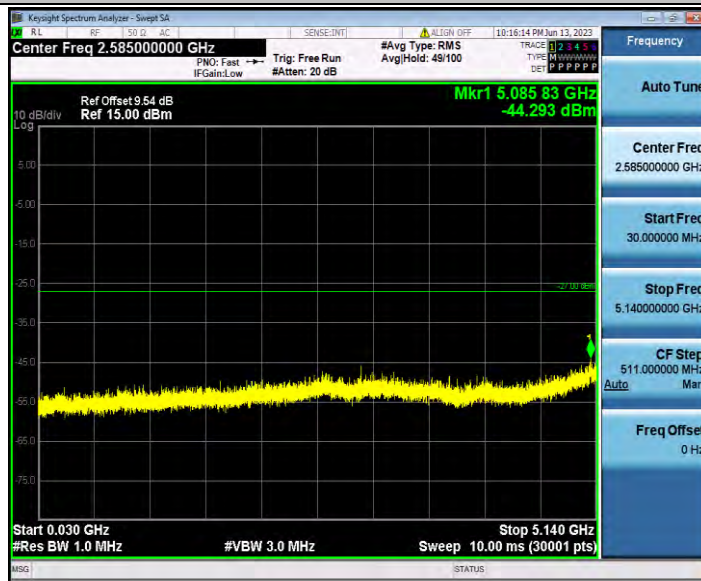
11N20SISO_Ant2_5180_5360~40000



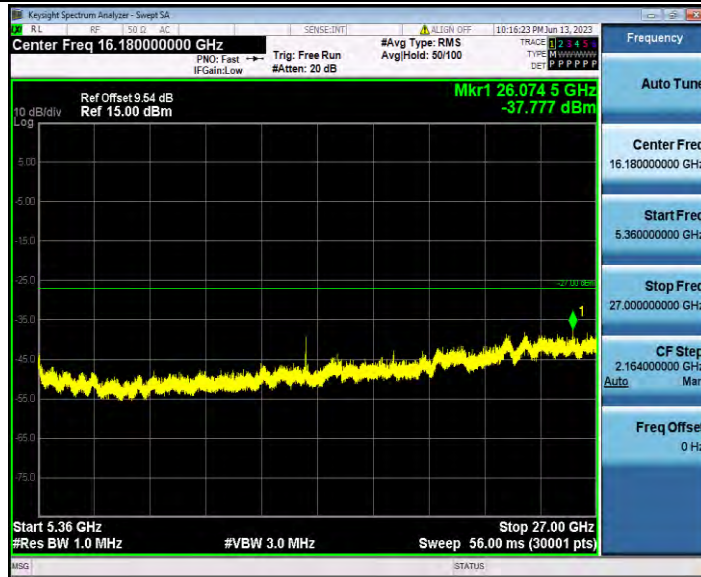
11N20SISO_Ant2_5200_30~5140



11N20SISO_Ant2_5200_5360~40000



11N20SISO_Ant2_5240_30~5140



11N20SISO_Ant2_5240_5360~40000



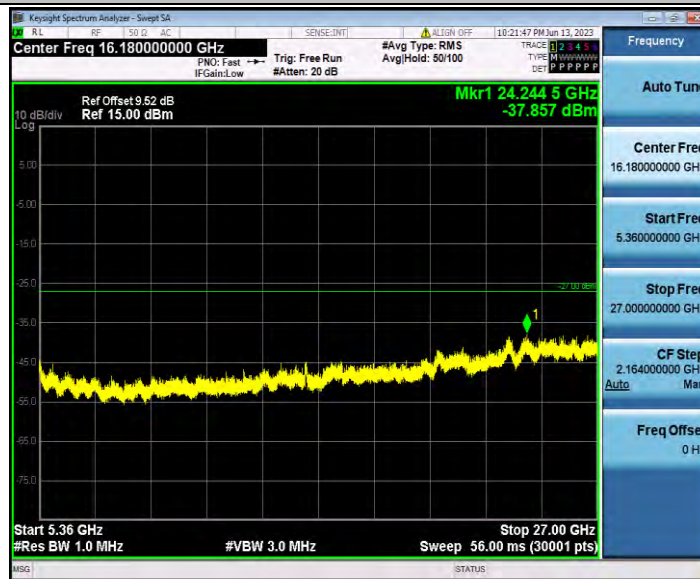
11N40SISO_Ant2_5190_30~5140



11N40SISO_Ant2_5190_5360~40000



11N40SISO_Ant2_5230_30~5140



11N40SISO_Ant2_5230_5360~40000



11AC20SISO_Ant2_5180_30~5140



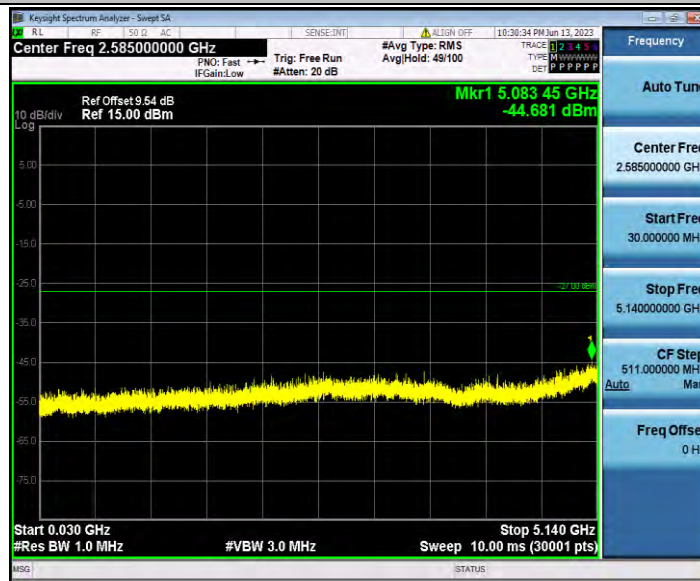
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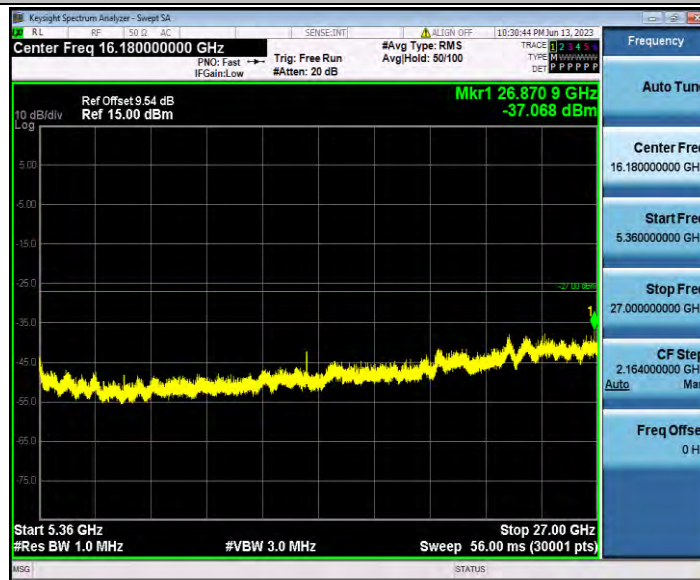
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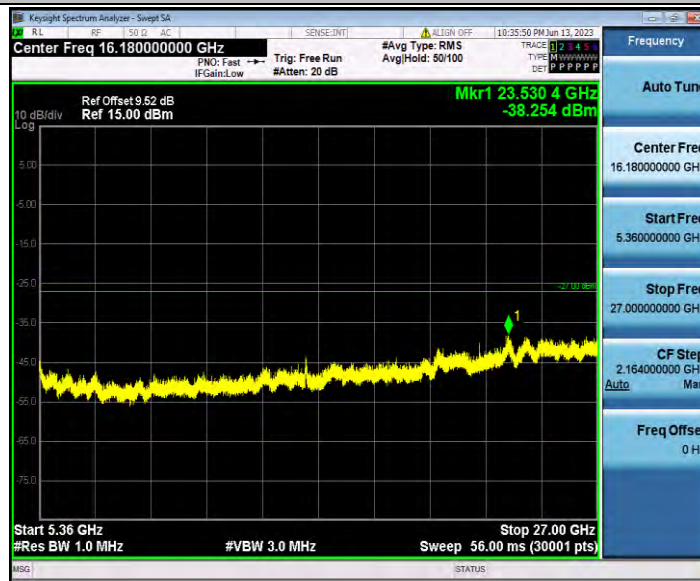
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11AC40SISO_Ant2_5190_5360~40000



11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140

