

Case No. : GTS20221219016-1-4	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.1.4	Test Engineer: Jenny zeng

Appendix D.1: Emission Bandwidth

Test Result

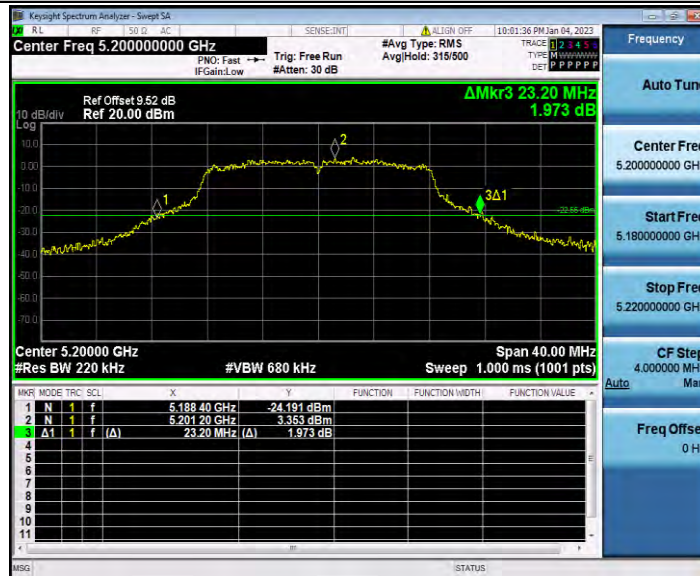
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	23.240	5168.240	5191.480	---	---
		5200	23.200	5188.400	5211.600	---	---
		5240	23.400	5228.280	5251.680	---	---
11N20SISO	Ant2	5180	23.680	5168.160	5191.840	---	---
		5200	22.760	5188.880	5211.640	---	---
		5240	23.440	5228.480	5251.920	---	---
11N40SISO	Ant2	5190	42.720	5168.400	5211.120	---	---
		5230	44.080	5207.920	5252.000	---	---
11AC20SISO	Ant2	5180	24.120	5168.120	5192.240	---	---
		5200	23.400	5188.760	5212.160	---	---
		5240	24.000	5228.200	5252.200	---	---
11AC40SISO	Ant2	5190	44.160	5167.760	5211.920	---	---
		5230	43.280	5208.320	5251.600	---	---
11AC80SISO	Ant2	5210	85.920	5167.920	5253.840	---	---

Test Graphs

11A_Ant2_5180



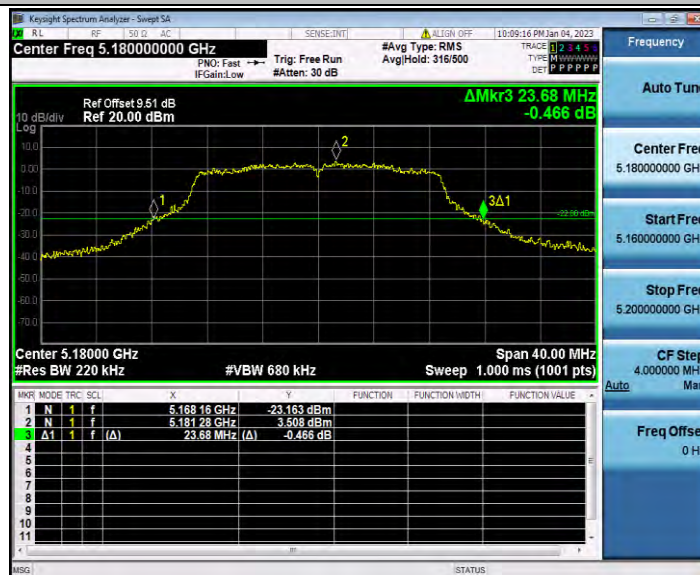
11A_Ant2_5200



11A_Ant2_5240



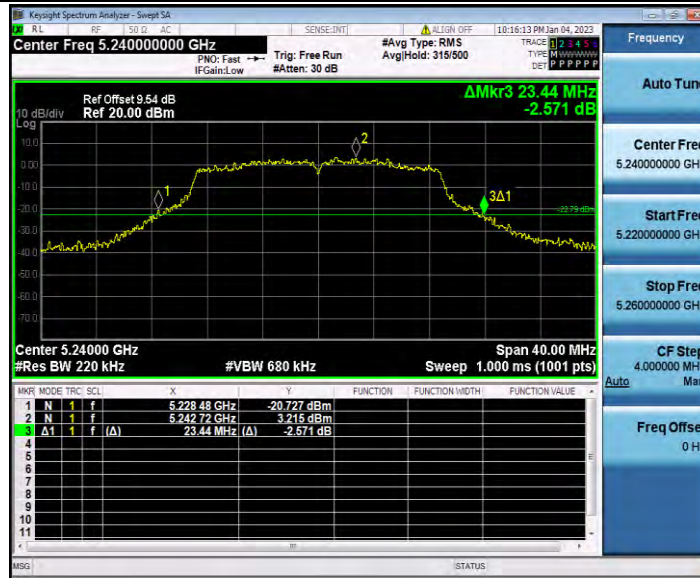
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



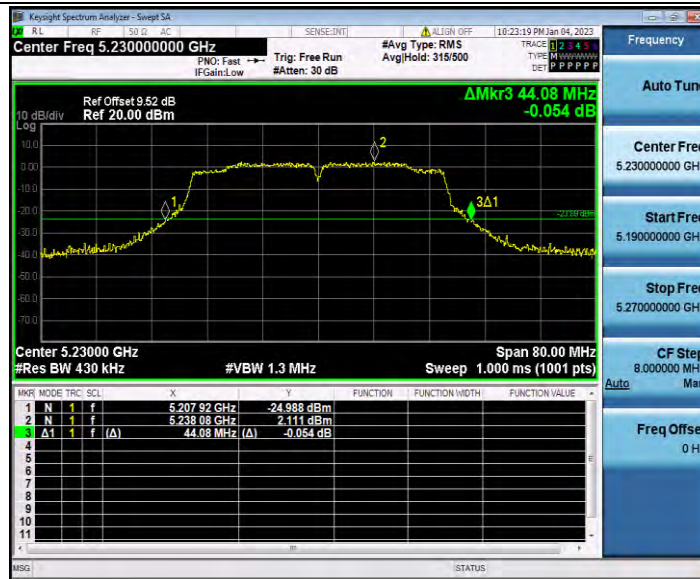
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



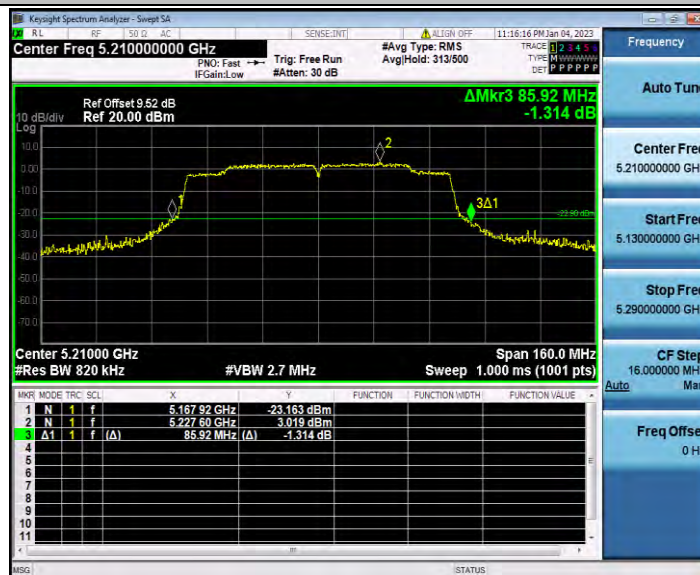
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



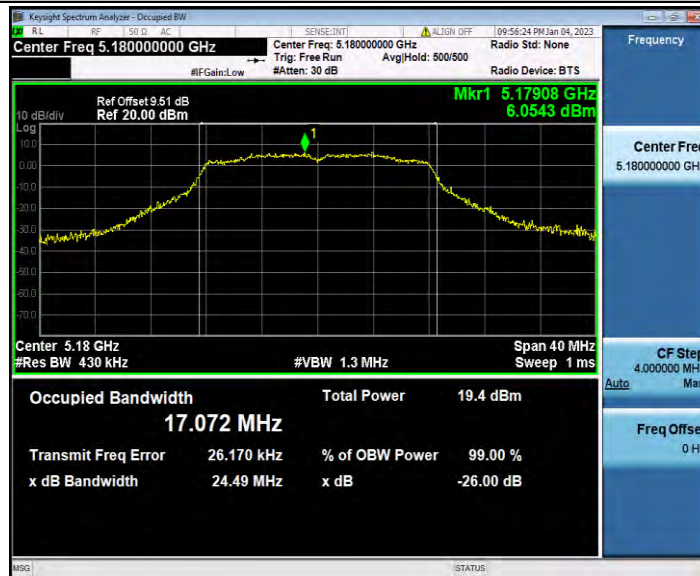
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.072	5171.490	5188.562	---	---
		5200	17.042	5191.504	5208.546	---	---
		5240	17.090	5231.488	5248.578	---	---
11N20SISO	Ant2	5180	18.055	5171.006	5189.061	---	---
		5200	18.050	5191.013	5209.063	---	---
		5240	18.091	5230.981	5249.072	---	---
11N40SISO	Ant2	5190	36.264	5171.923	5208.187	---	---
		5230	36.305	5211.870	5248.175	---	---
11AC20SISO	Ant2	5180	18.087	5170.972	5189.059	---	---
		5200	18.045	5191.011	5209.056	---	---
		5240	18.053	5231.010	5249.063	---	---
11AC40SISO	Ant2	5190	36.305	5171.924	5208.229	---	---
		5230	36.206	5211.938	5248.144	---	---
11AC80SISO	Ant2	5210	75.187	5172.539	5247.726	---	---

Test Graphs

11A_Ant2_5180



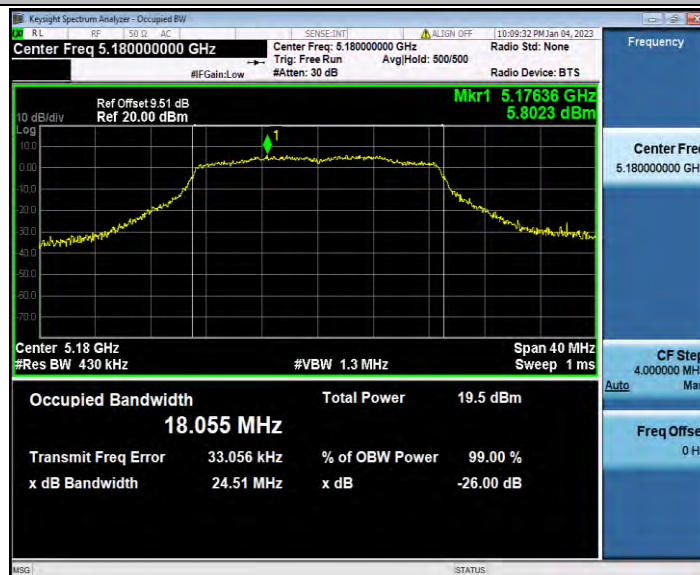
11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



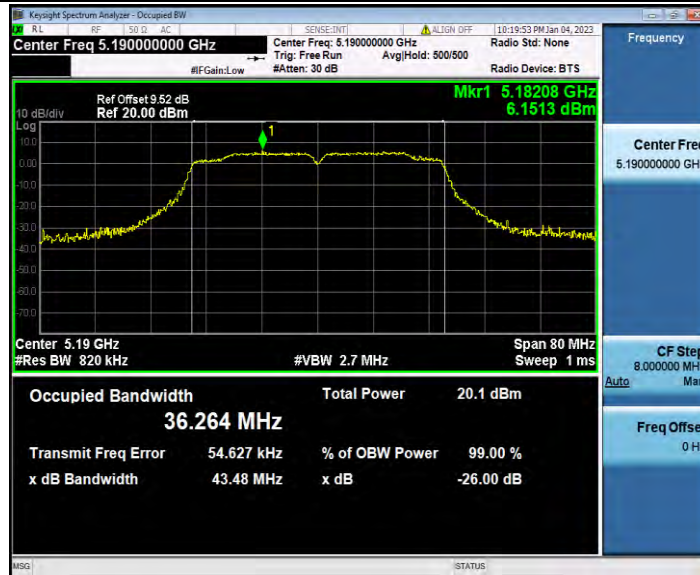
11N20SISO_Ant2_5200



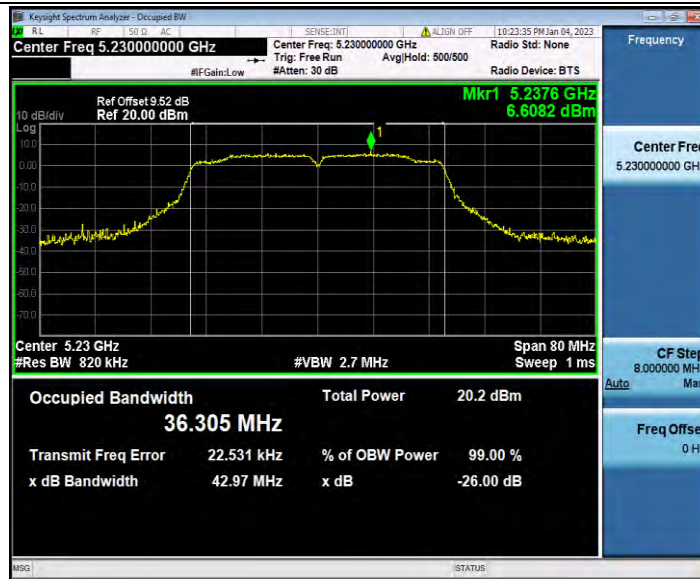
11N20SISO_Ant2_5240



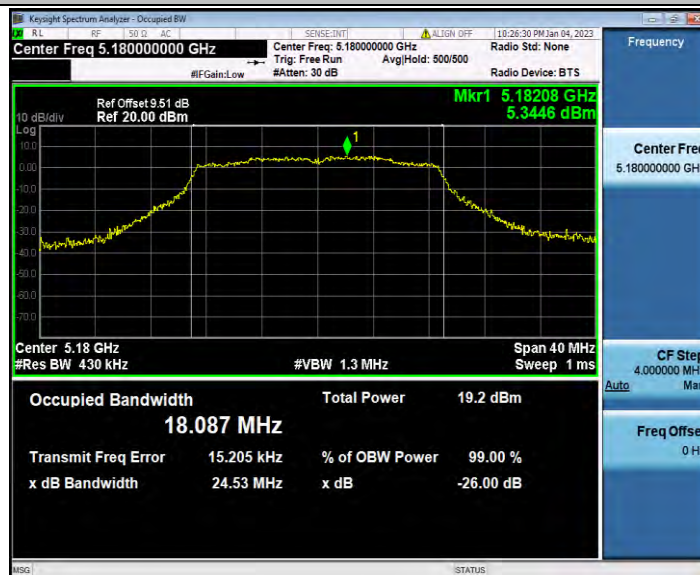
11N40SISO_Ant2_5190



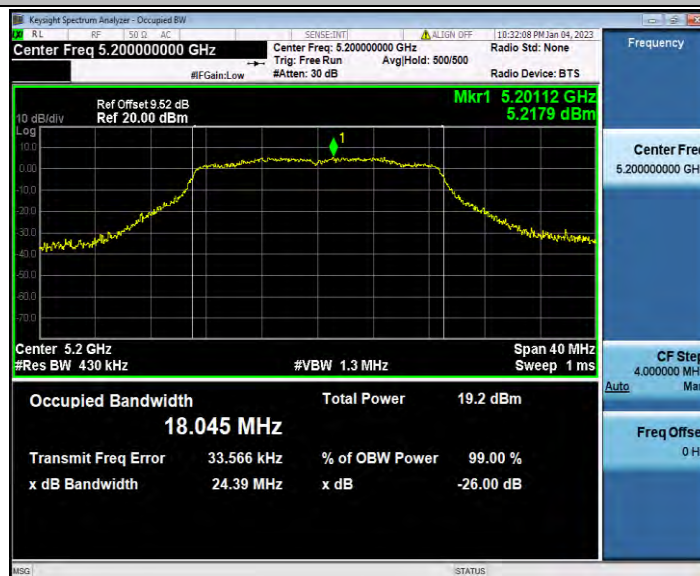
11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



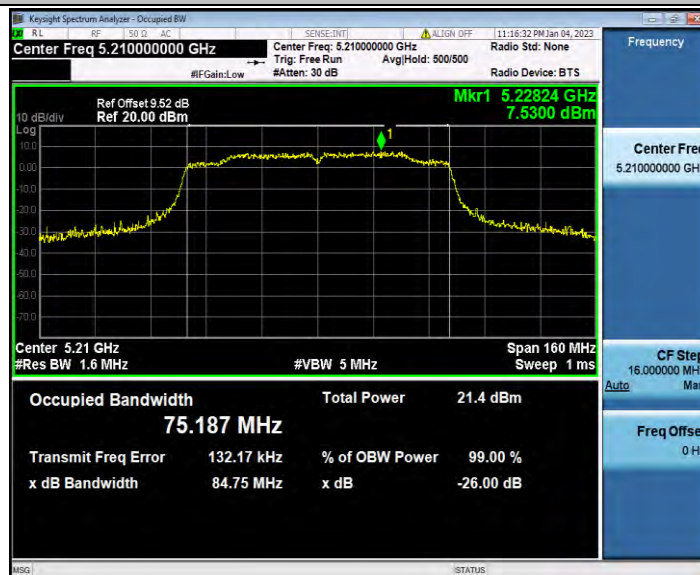
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



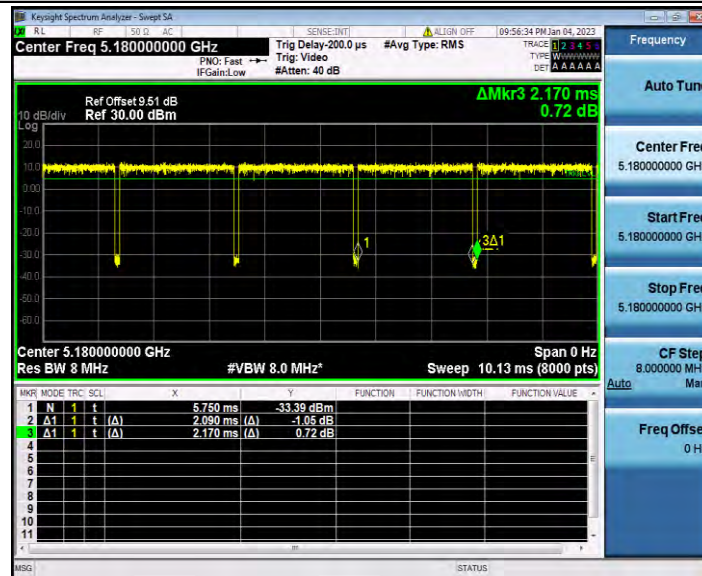
Appendix D.3: Duty Cycle

Test Result

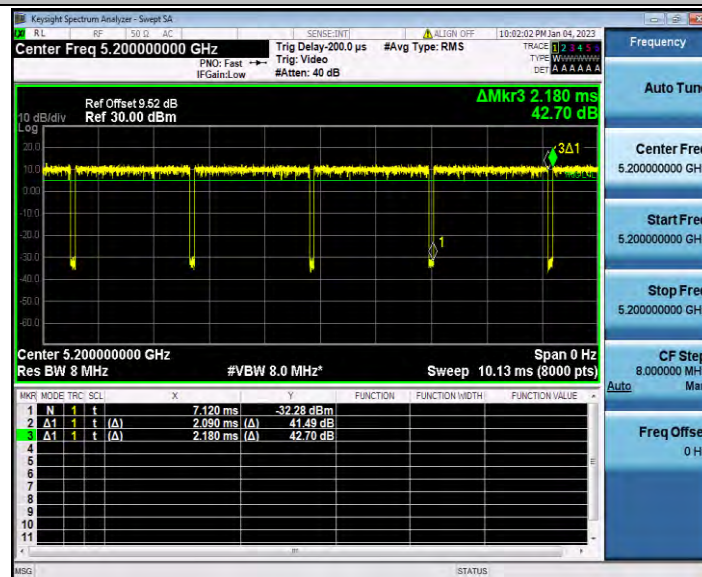
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.09	2.17	96.31
		5200	2.09	2.18	95.87
		5240	2.08	2.17	95.85
11N20SISO	Ant2	5180	7.93	8.02	98.88
		5200	7.93	8.02	98.88
		5240	7.93	8.02	98.88
11N40SISO	Ant2	5190	7.94	8.02	99.00
		5230	7.94	8.02	99.00
11AC20SISO	Ant2	5180	7.93	8.01	99.00
		5200	7.93	8.01	99.00
		5240	7.92	8.01	98.88
11AC40SISO	Ant2	5190	7.91	8.00	98.88
		5230	7.91	8.00	98.88
11AC80SISO	Ant2	5210	7.93	8.02	98.88

Test Graphs

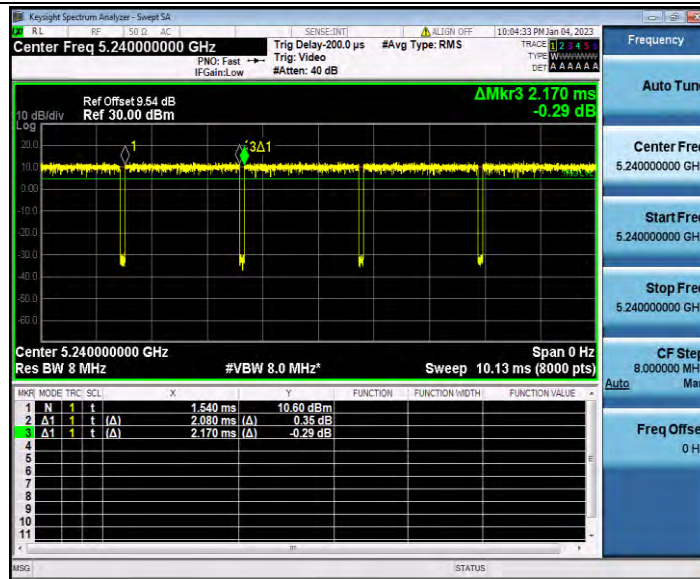
11A_Ant2_5180



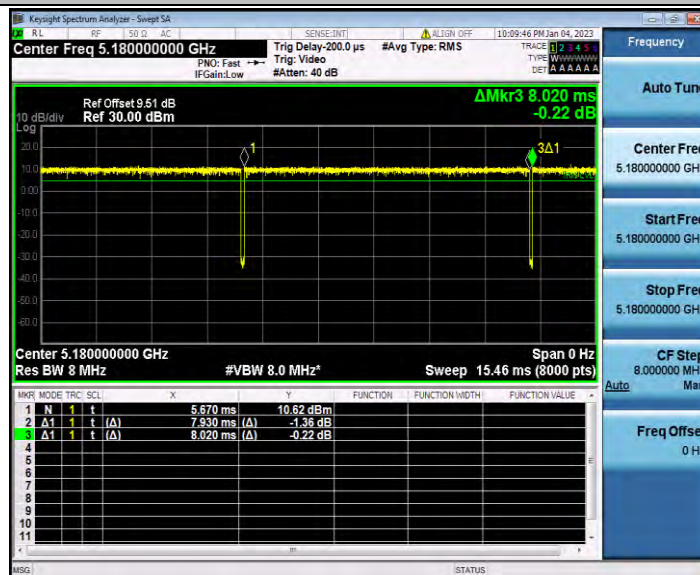
11A_Ant2_5200



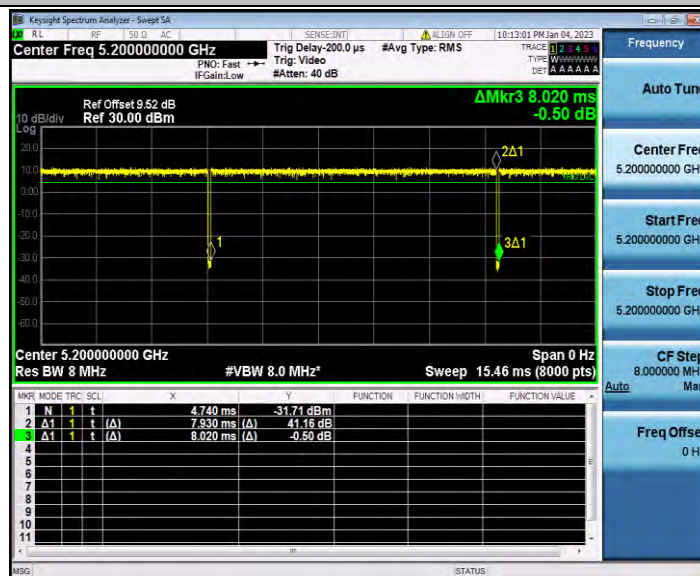
11A_Ant2_5240



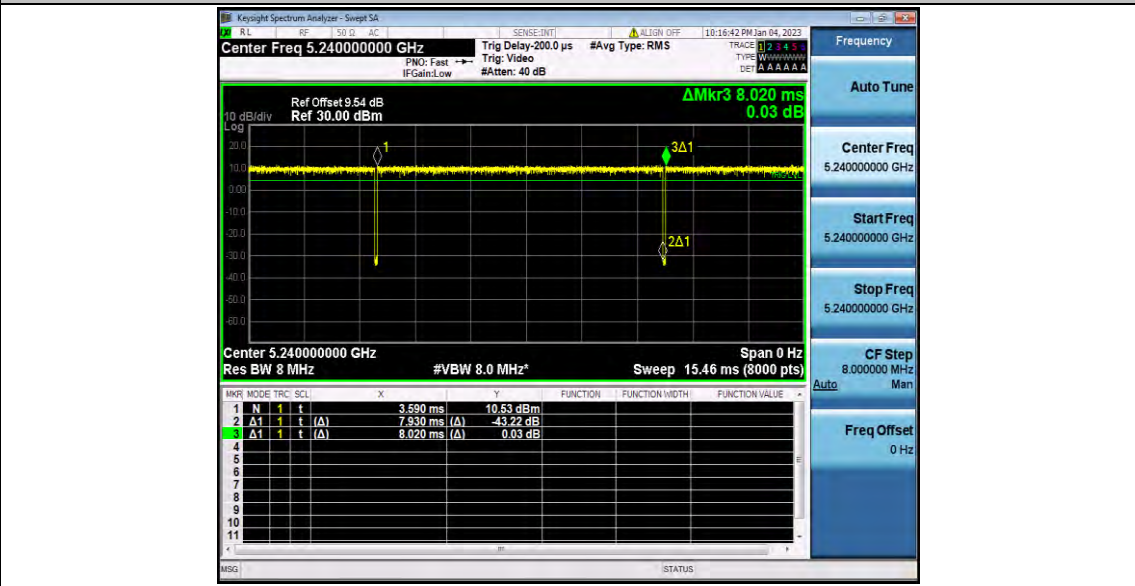
11N20SISO_Ant2_5180



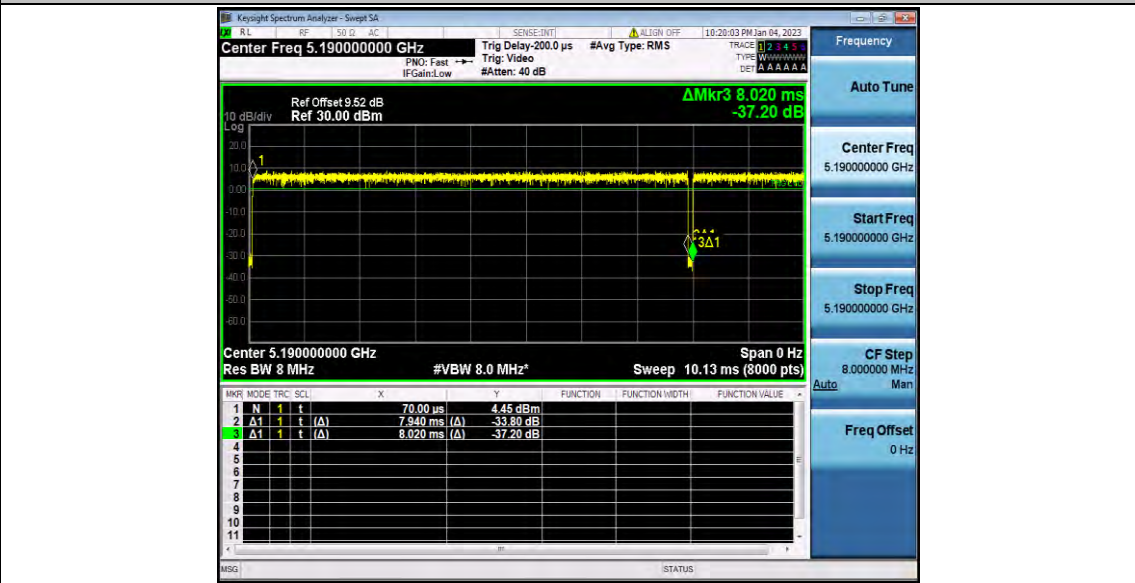
11N20SISO_Ant2_5200



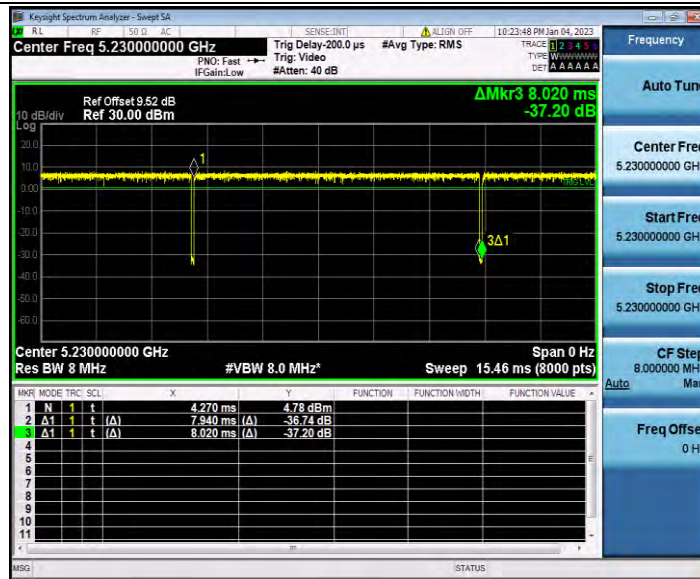
11N20SISO_Ant2_5240



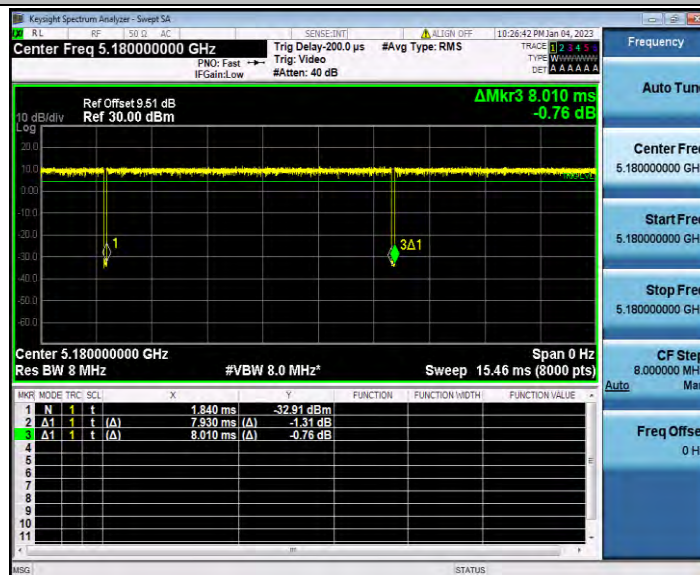
11N40SISO_Ant2_5190



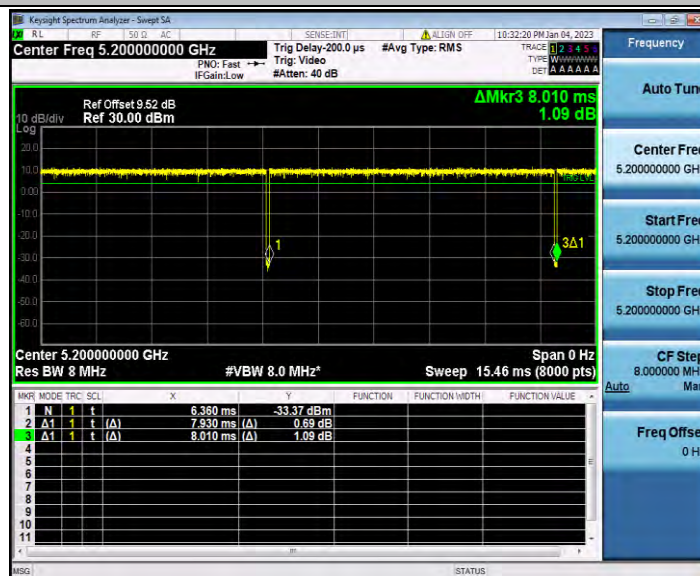
11N40SISO_Ant2_5230



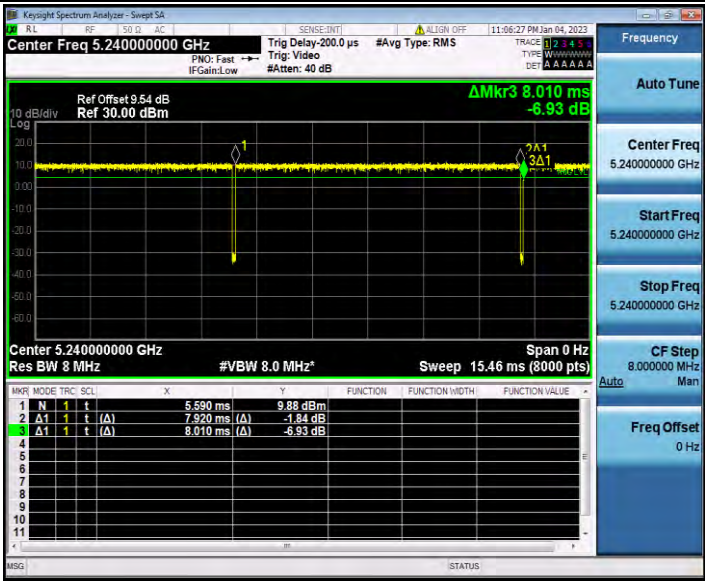
11AC20SISO_Ant2_5180



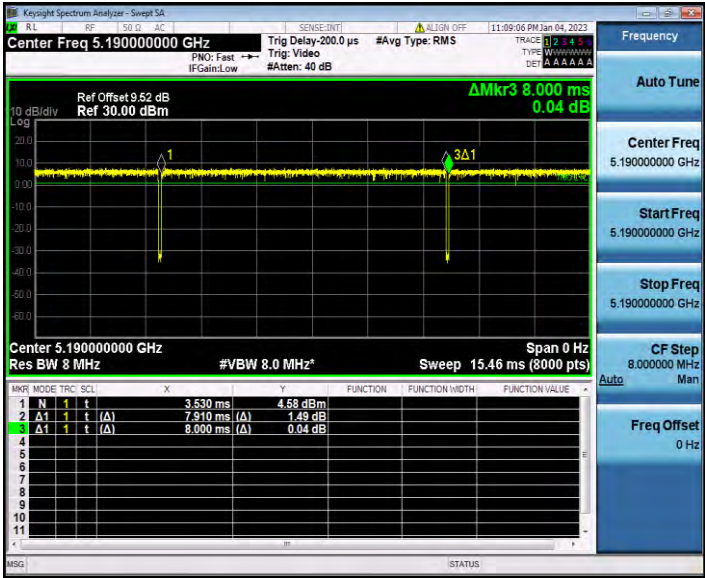
11AC20SISO_Ant2_5200



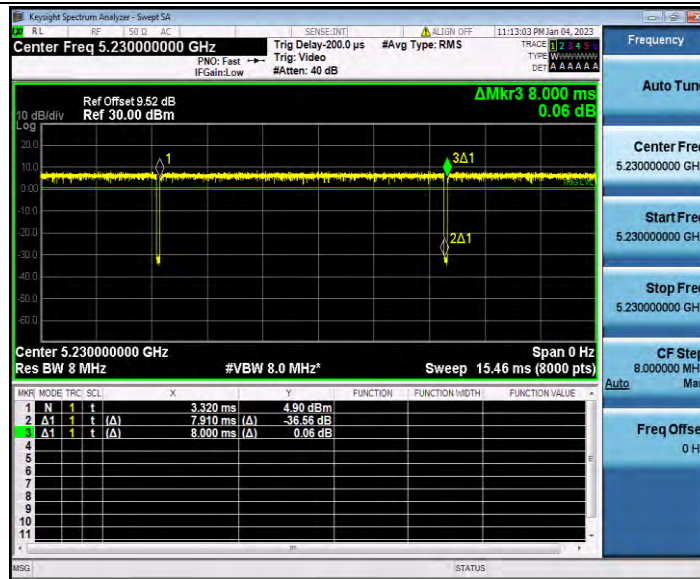
11AC20SISO_Ant2_5240



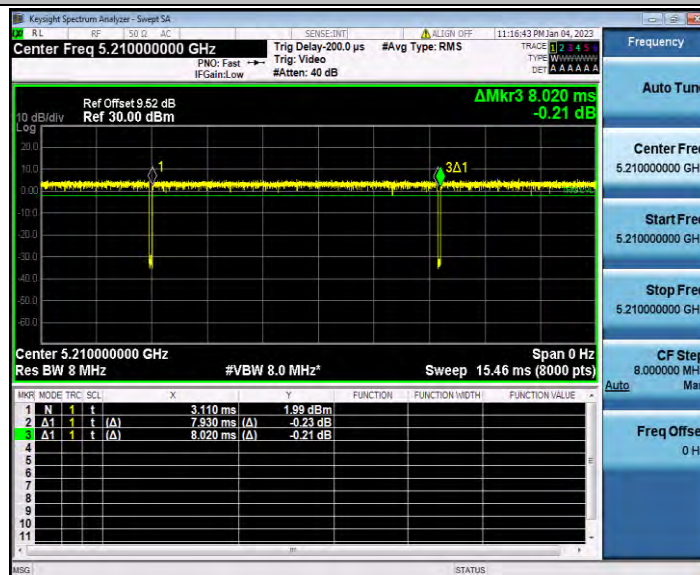
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	12.46	96.31	0.16	12.62	≤23.98	PASS
		5200	12.61	95.87	0.18	12.79	≤23.98	PASS
		5240	12.61	95.85	0.18	12.79	≤23.98	PASS
11N20SISO	Ant2	5180	12.55	98.88	0.05	12.60	≤23.98	PASS
		5200	12.34	98.88	0.05	12.39	≤23.98	PASS
		5240	12.32	98.88	0.05	12.37	≤23.98	PASS
11N40SISO	Ant2	5190	12.50	99.00	0.04	12.54	≤23.98	PASS
		5230	12.51	99.00	0.04	12.55	≤23.98	PASS
11AC20SISO	Ant2	5180	12.27	99.00	0.04	12.31	≤23.98	PASS
		5200	12.29	99.00	0.04	12.33	≤23.98	PASS
		5240	12.30	98.88	0.05	12.35	≤23.98	PASS
11AC40SISO	Ant2	5190	12.48	98.88	0.05	12.53	≤23.98	PASS
		5230	12.46	98.88	0.05	12.51	≤23.98	PASS
11AC80SISO	Ant2	5210	12.49	98.88	0.05	12.54	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

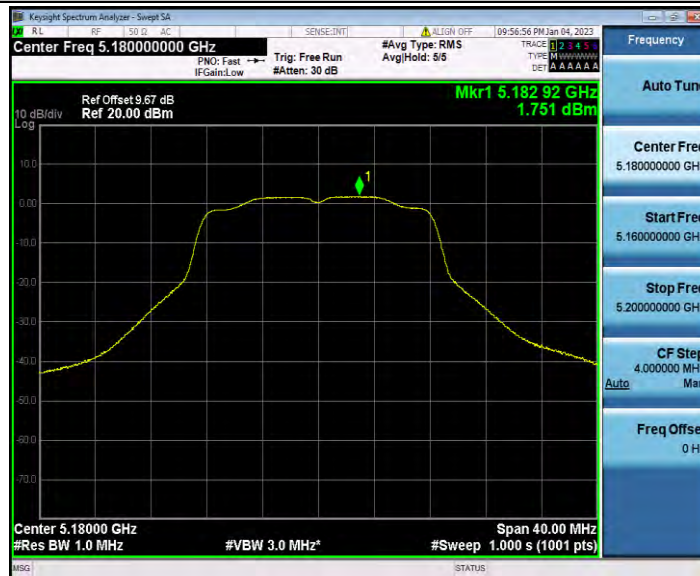
Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	1.75	≤11.00	PASS
		5200	1.94	≤11.00	PASS
		5240	1.99	≤11.00	PASS
11N20SISO	Ant2	5180	1.38	≤11.00	PASS
		5200	1.27	≤11.00	PASS
		5240	1.29	≤11.00	PASS
11N40SISO	Ant2	5190	-1.76	≤11.00	PASS
		5230	-1.78	≤11.00	PASS
11AC20SISO	Ant2	5180	1.15	≤11.00	PASS
		5200	1.21	≤11.00	PASS
		5240	1.22	≤11.00	PASS
11AC40SISO	Ant2	5190	-1.74	≤11.00	PASS
		5230	-1.86	≤11.00	PASS
11AC80SISO	Ant2	5210	-4.62	≤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



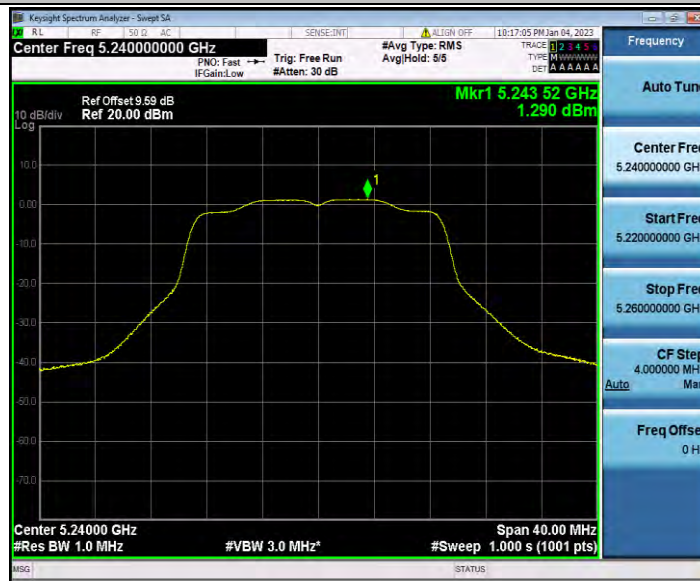
11N20SISO_Ant2_5180



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



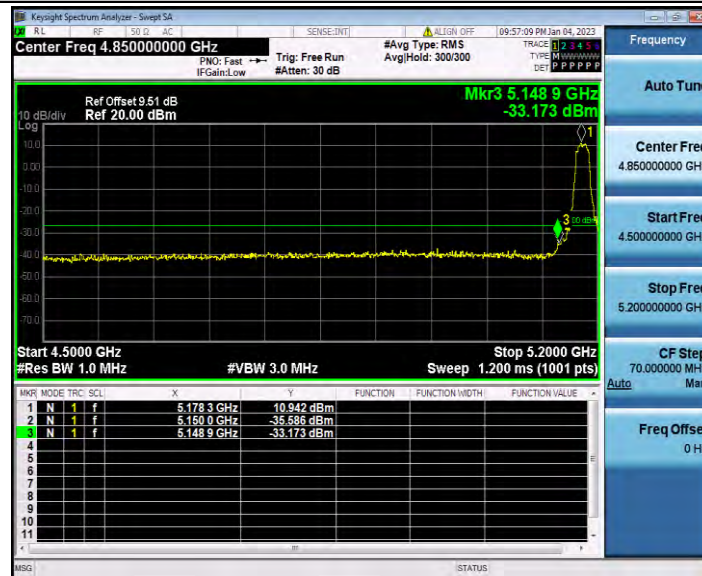
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-33.17	≤-27	PASS
		High	5240	-37.09	≤-27	PASS
11N20SISO	Ant2	Low	5180	-33.53	≤-27	PASS
		High	5240	-37.87	≤-27	PASS
11N40SISO	Ant2	Low	5190	-33.68	≤-27	PASS
		High	5230	-37.82	≤-27	PASS
11AC20SISO	Ant2	Low	5180	-35.58	≤-27	PASS
		High	5240	-37.44	≤-27	PASS
11AC40SISO	Ant2	Low	5190	-34.2	≤-27	PASS
		High	5230	-38.04	≤-27	PASS
11AC80SISO	Ant2	Low	5210	-31.57	≤-27	PASS
		High	5210	-38.3	≤-27	PASS

Test Graphs B1

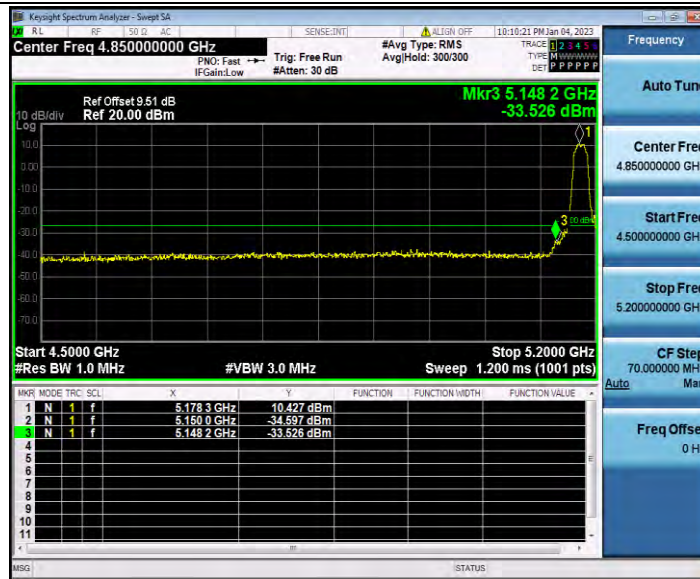
11A_Ant2_Low_5180



11A_Ant2_High_5240



11N20SISO_Ant2_Low_5180



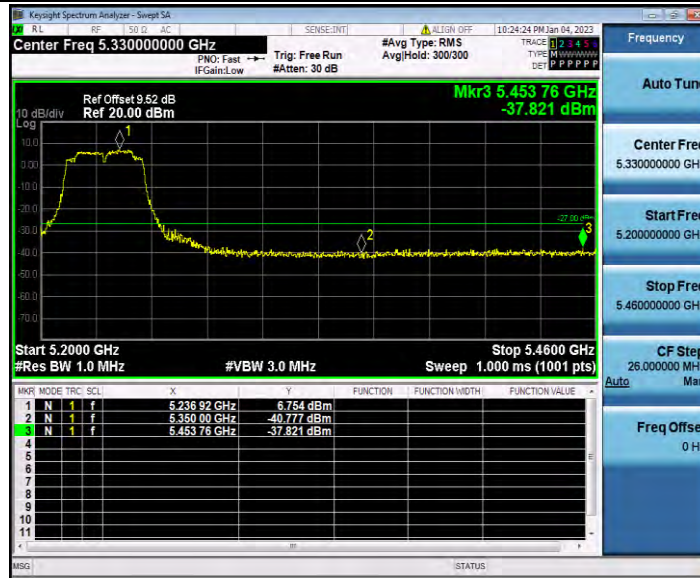
11N20SISO_Ant2_High_5240



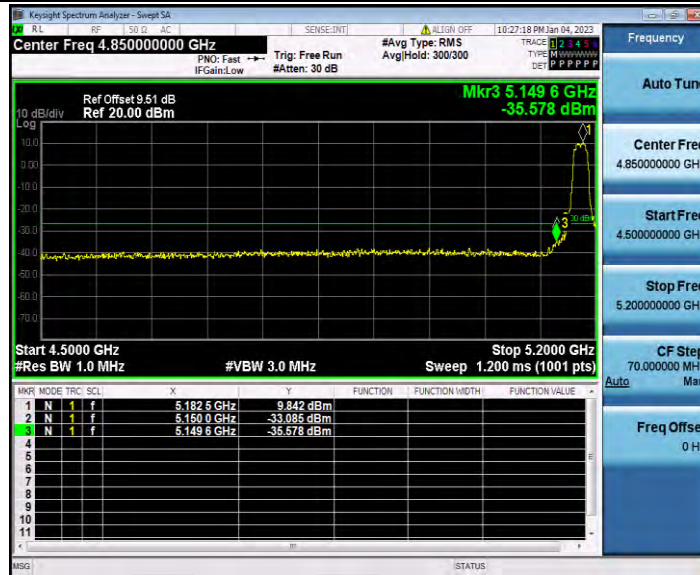
11N40SISO_Ant2_Low_5190



11N40SISO_Ant2_High_5230



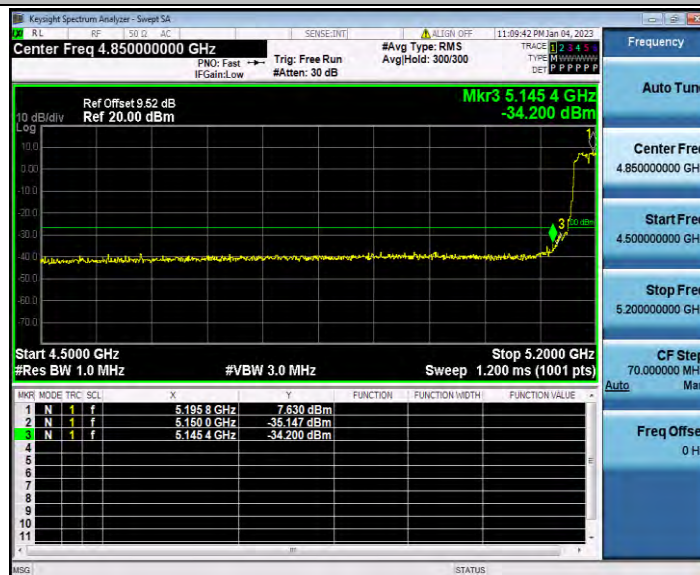
11AC20SISO_Ant2_Low_5180



11AC20SISO_Ant2_High_5240



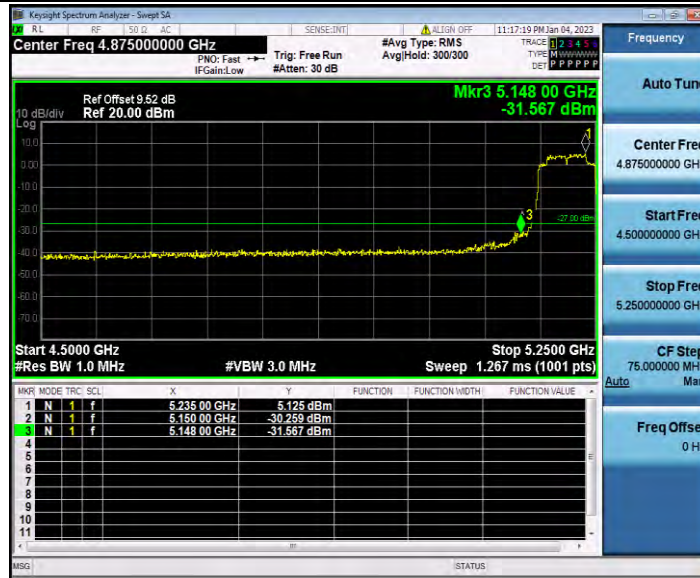
11AC40SISO_Ant2_Low_5190



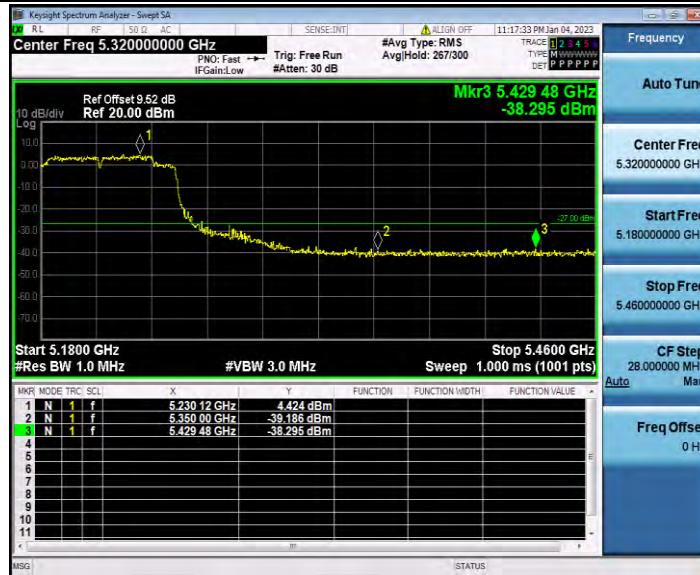
11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



11AC80SISO_Ant2_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

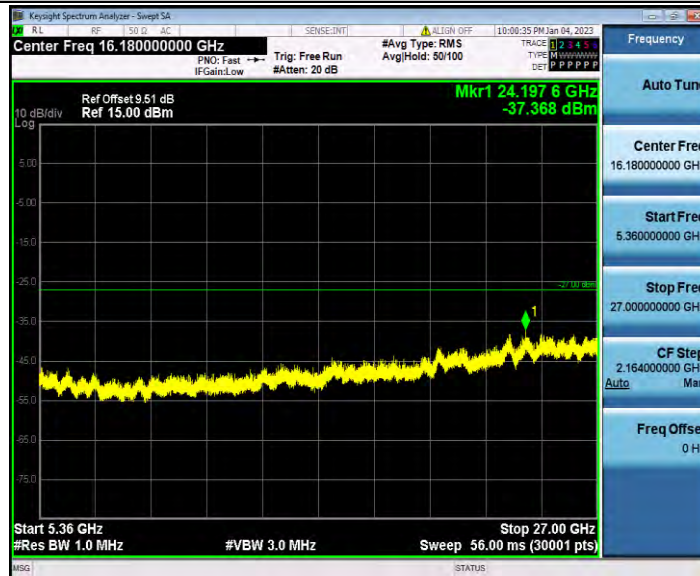
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	2521.64	-40.65	≤-27	PASS
			5360~40000	24197.62	-37.37	≤-27	PASS
		5200	30~5140	3166.01	-47.06	≤-27	PASS
			5360~40000	25245	-37.99	≤-27	PASS
		5240	30~5140	2573.42	-40.45	≤-27	PASS
			5360~40000	24779.01	-37.48	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5132.85	-46.44	≤-27	PASS
			5360~40000	24296.44	-36.9	≤-27	PASS
		5200	30~5140	4958.6	-46.91	≤-27	PASS
			5360~40000	26003.12	-37.8	≤-27	PASS
		5240	30~5140	5020.94	-46.65	≤-27	PASS
			5360~40000	25228.41	-37.61	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5136.93	-40.92	≤-27	PASS
			5360~40000	24773.97	-37.54	≤-27	PASS
		5230	30~5140	1762.29	-44.09	≤-27	PASS
			5360~40000	24212.77	-37.99	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	1739.47	-41.7	≤-27	PASS
			5360~40000	26540.51	-37.93	≤-27	PASS
		5200	30~5140	4956.04	-45.91	≤-27	PASS
			5360~40000	25628.75	-38.68	≤-27	PASS
		5240	30~5140	2573.76	-35.02	≤-27	PASS
			5360~40000	24131.26	-37.6	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5130.97	-40.31	≤-27	PASS
			5360~40000	25115.16	-37.74	≤-27	PASS
		5230	30~5140	2521.81	-40.45	≤-27	PASS
			5360~40000	23594.59	-37.79	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5138.47	-34.74	≤-27	PASS
			5360~40000	25640.29	-37.07	≤-27	PASS

Test Graphs

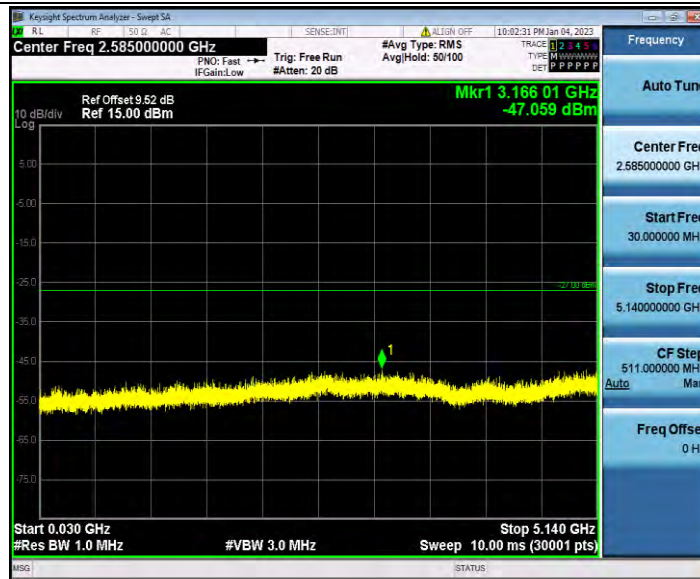
11A_Ant2_5180_30~5140



11A_Ant2_5180_5360~40000



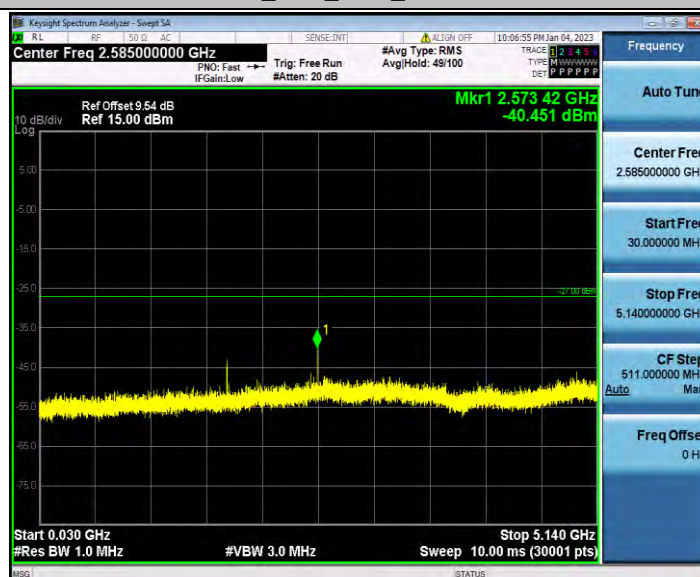
11A_Ant2_5200_30~5140



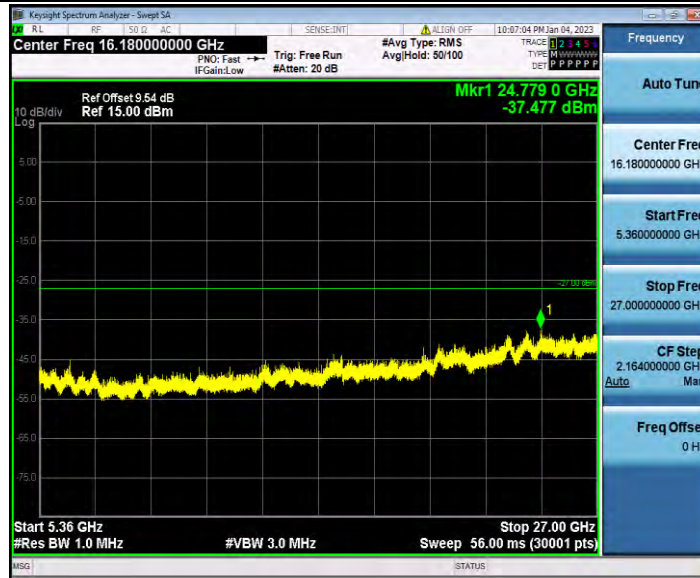
11A_Ant2_5200_5360~40000



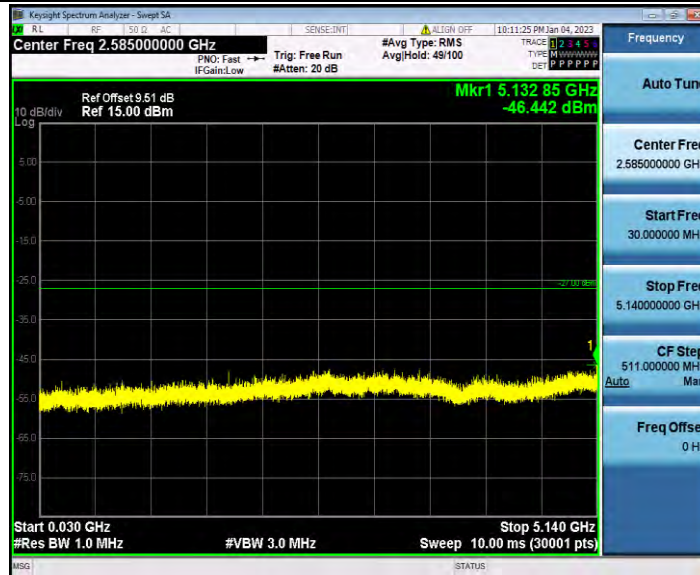
11A_Ant2_5240_30~5140



11A_Ant2_5240_5360~40000



11N20SISO_Ant2_5180_30~5140



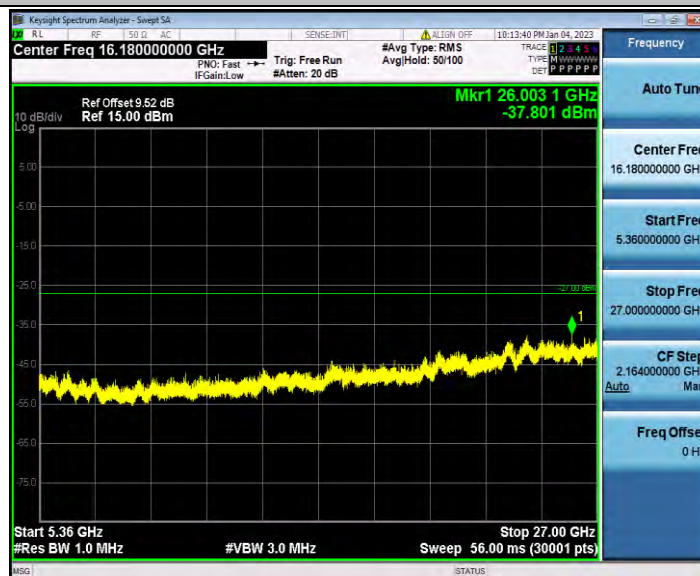
11N20SISO_Ant2_5180_5360~40000



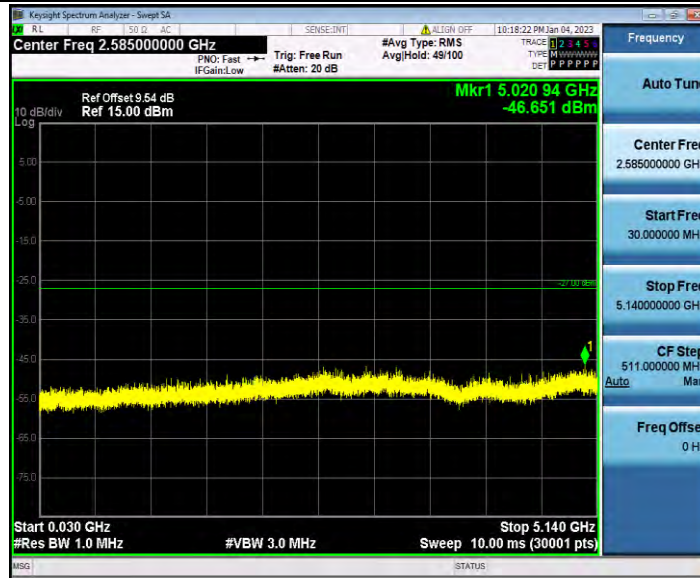
11N20SISO_Ant2_5200_30~5140



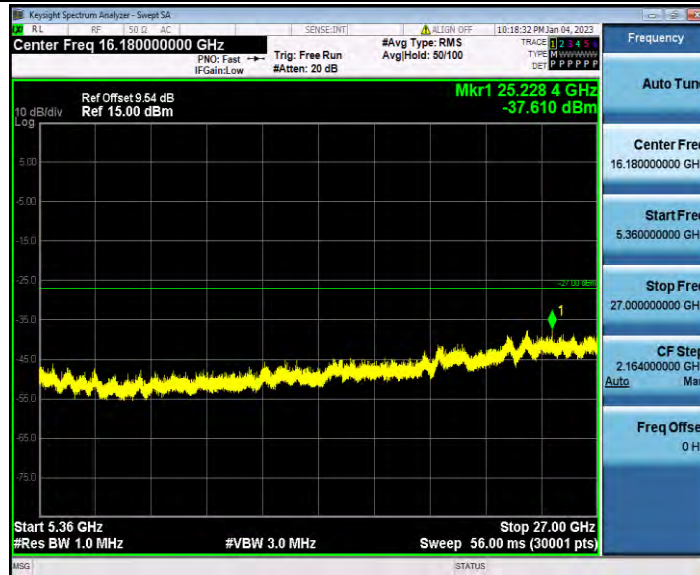
11N20SISO_Ant2_5200_5360~40000



11N20SISO_Ant2_5240_30~5140



11N20SISO_Ant2_5240_5360~40000



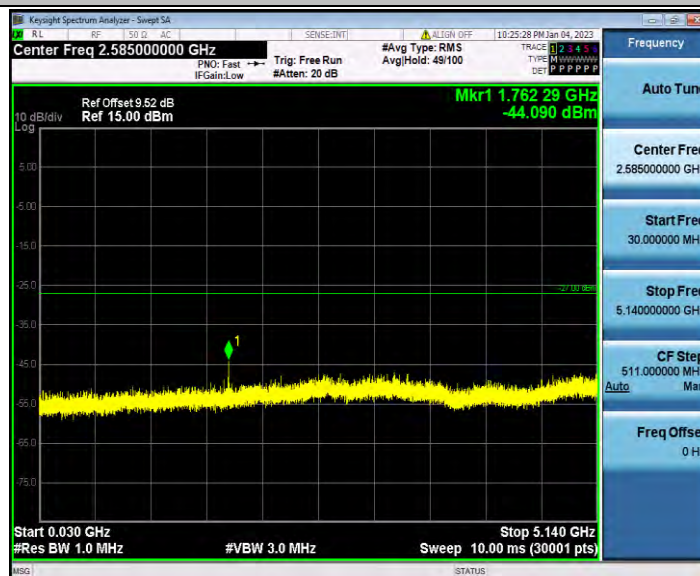
11N40SISO_Ant2_5190_30~5140



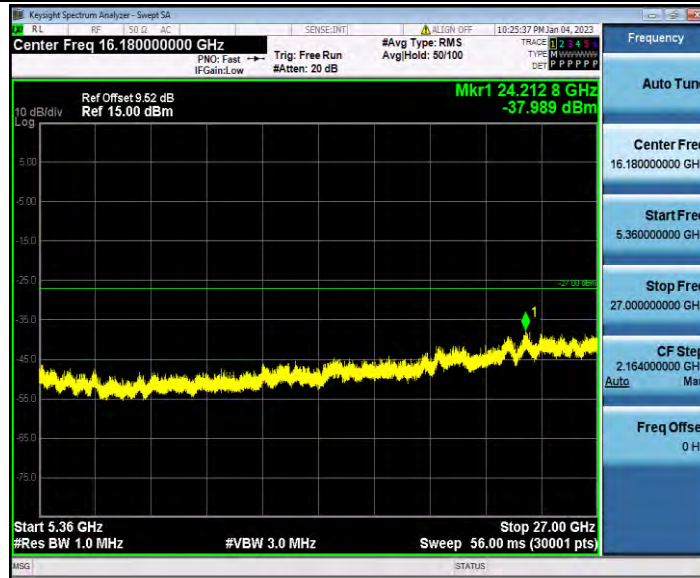
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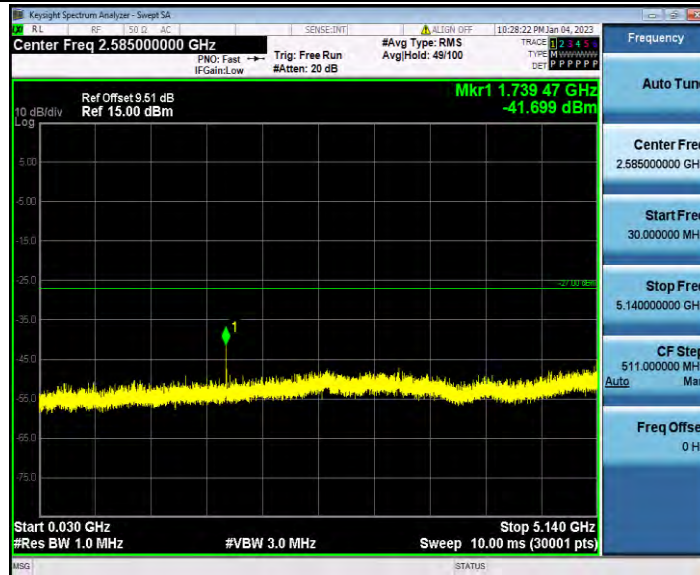
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11N40SISO_Ant2_5230_5360~40000



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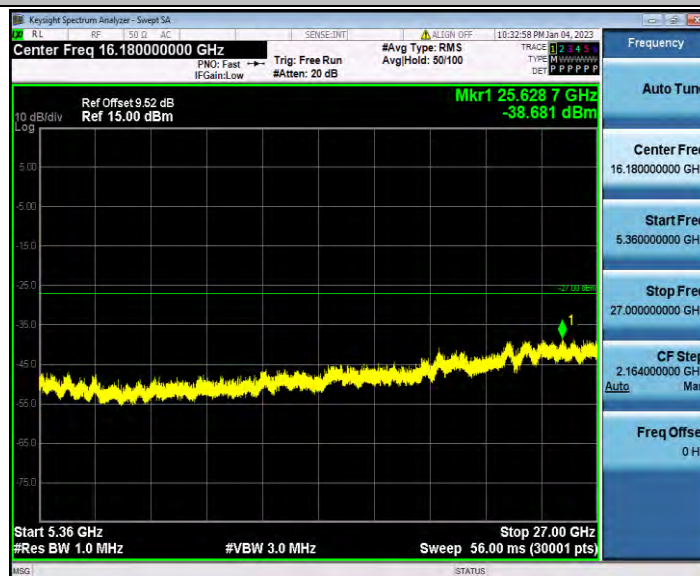
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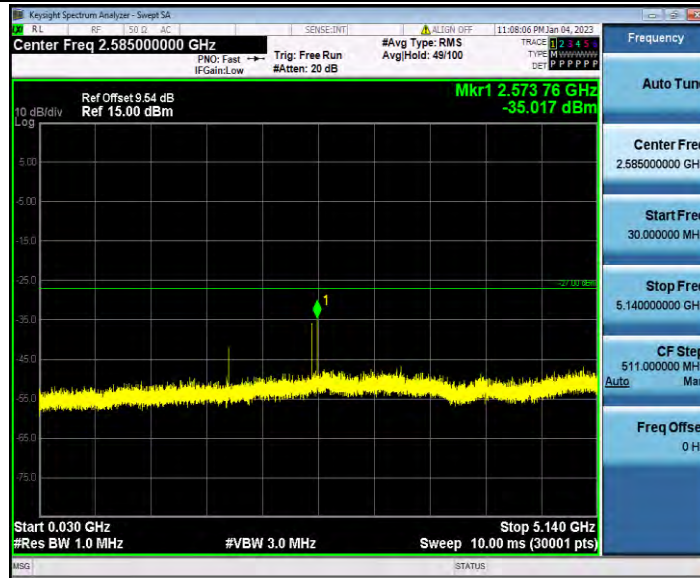
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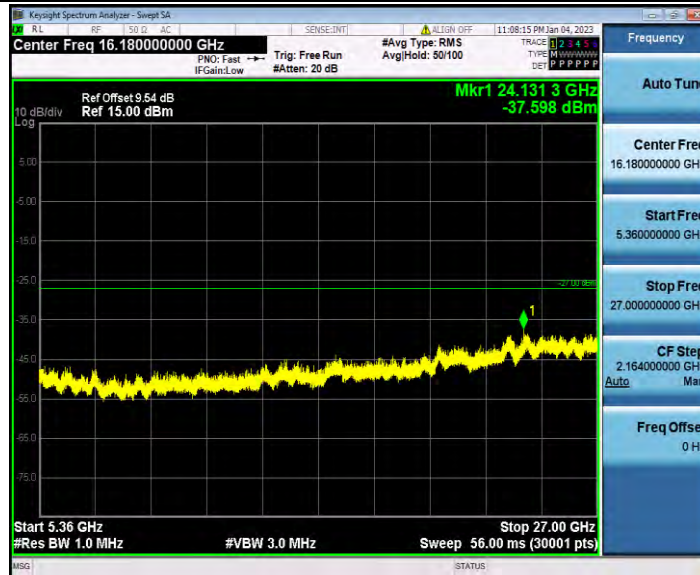
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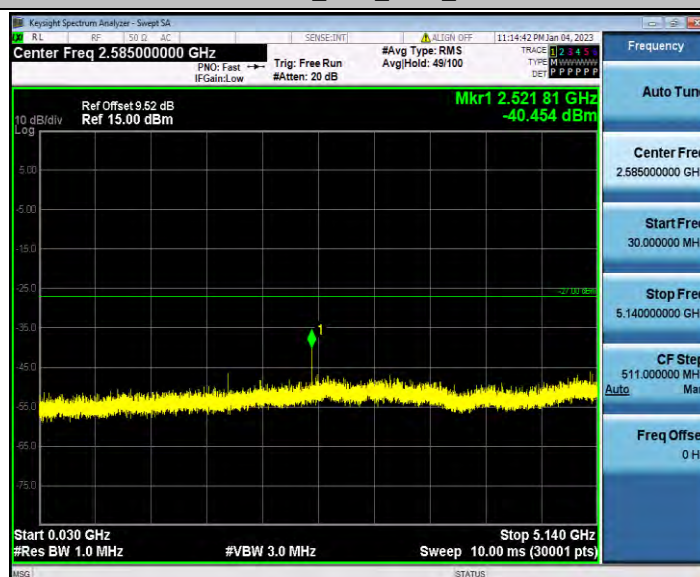
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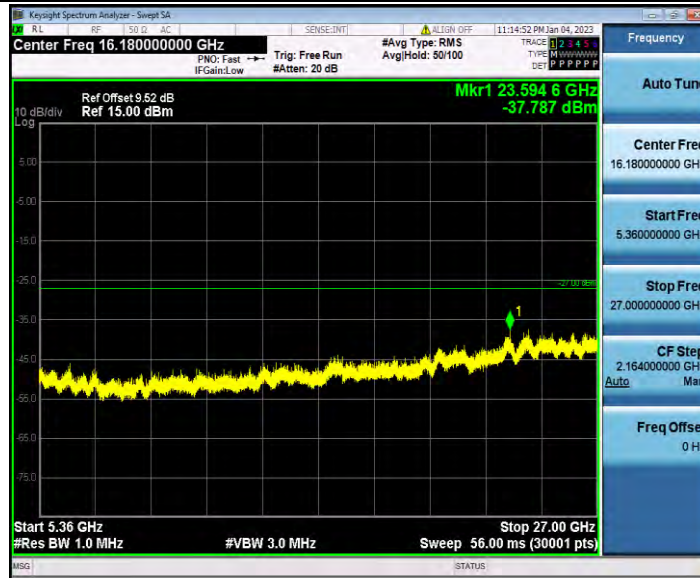
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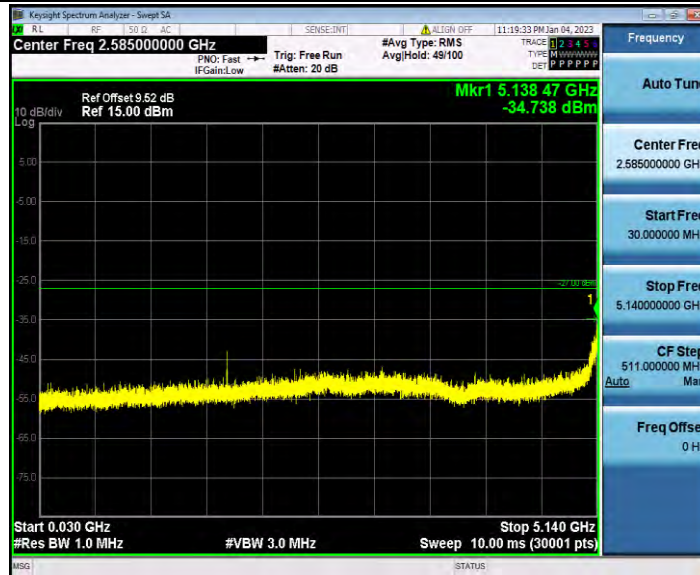
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11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140



11AC80SISO_Ant2_5210_5360~40000

