

Case No. : <u>GTS20231012003-1-11</u>	
Ambient Condition: <u>24</u> °C, <u>48</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.12.8</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant3	5180	18.360	5170.680	5189.040	---	---
		5200	18.360	5190.680	5209.040	---	---
		5240	18.320	5230.720	5249.040	---	---
11N20SISO	Ant3	5180	19.040	5170.440	5189.480	---	---
		5200	19.040	5190.440	5209.480	---	---
		5240	19.000	5230.480	5249.480	---	---
11N40SISO	Ant3	5190	38.800	5170.560	5209.360	---	---
		5230	38.800	5210.560	5249.360	---	---
11AC20SISO	Ant3	5180	19.320	5170.240	5189.560	---	---
		5200	19.280	5190.240	5209.520	---	---
		5240	19.320	5230.240	5249.560	---	---
11AC40SISO	Ant3	5190	39.120	5170.400	5209.520	---	---
		5230	39.120	5210.400	5249.520	---	---
11AC80SISO	Ant3	5210	86.720	5167.120	5253.840	---	---

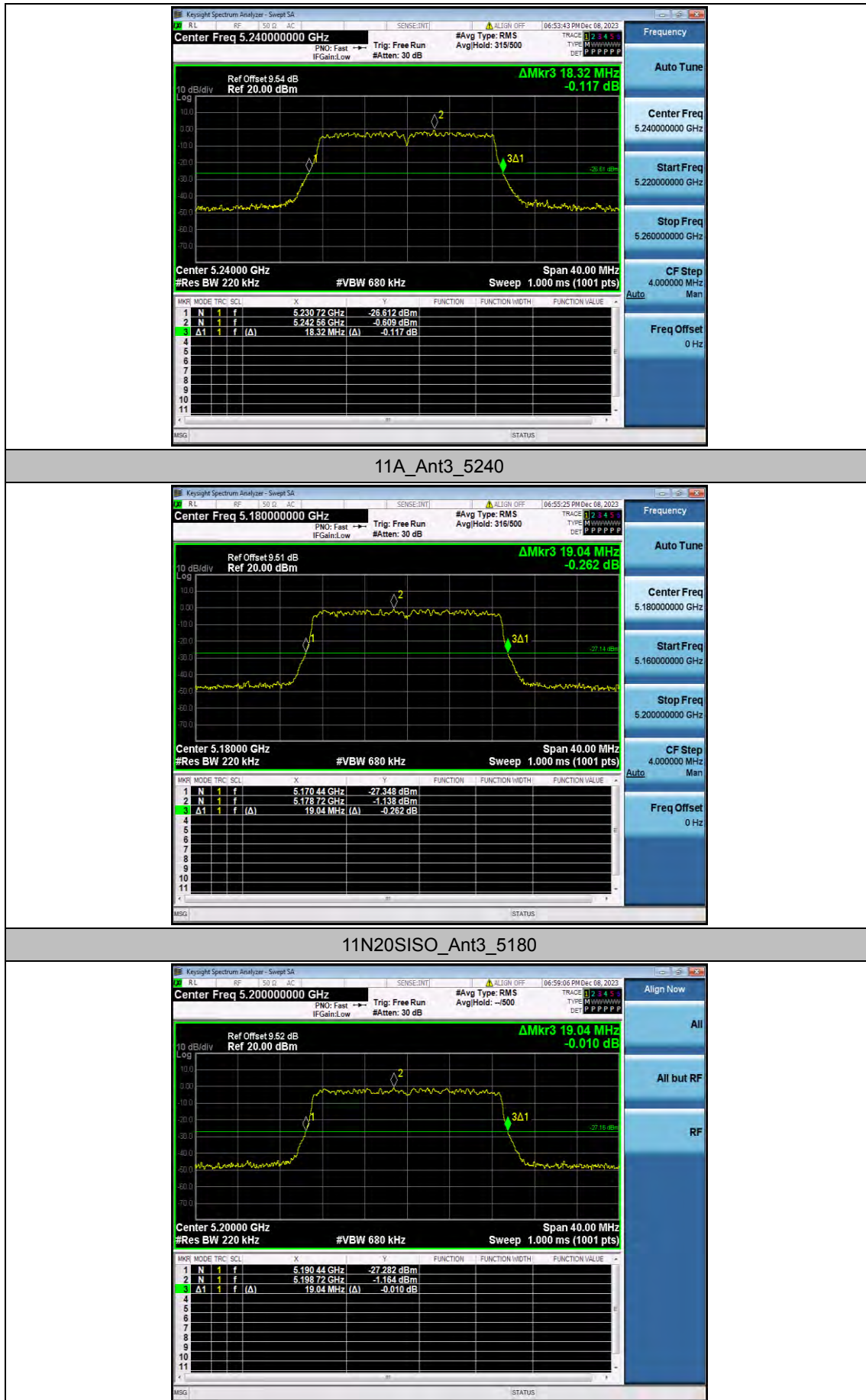
Test Graphs



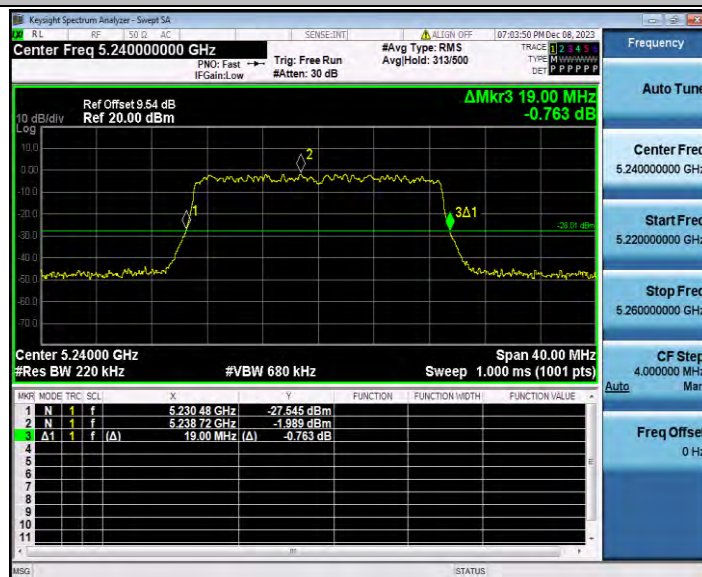
11A_Ant3_5180



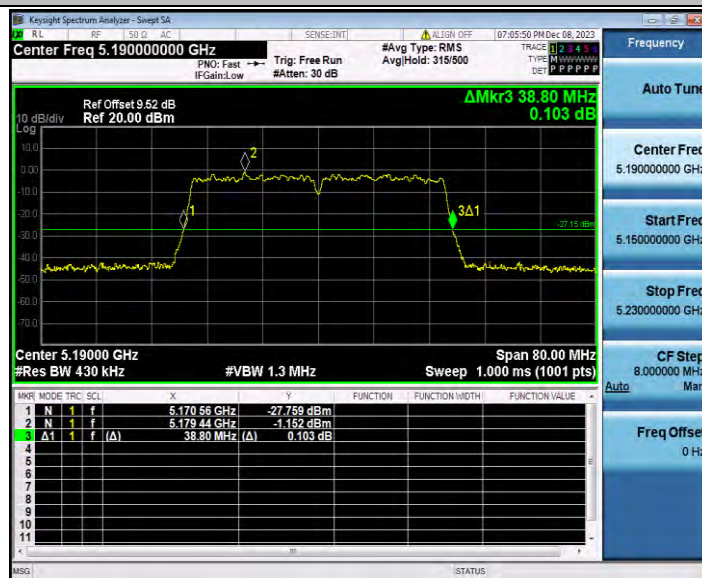
11A_Ant3_5200



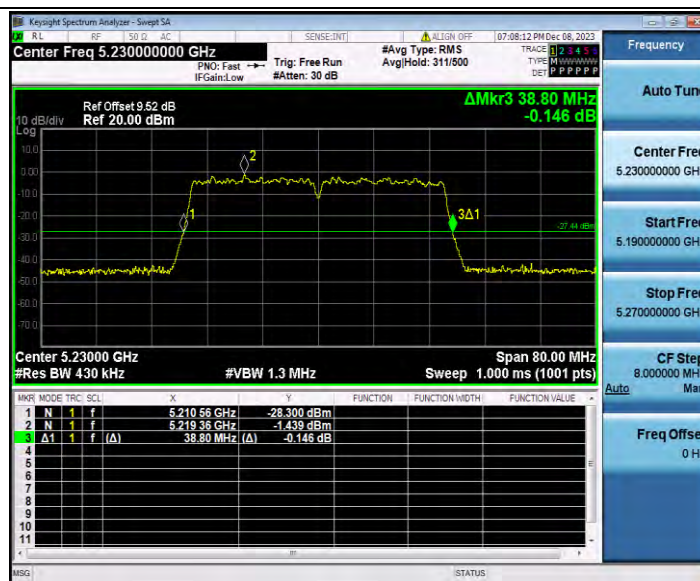
11N20SISO_Ant3_5200



11N20SISO_Ant3_5240



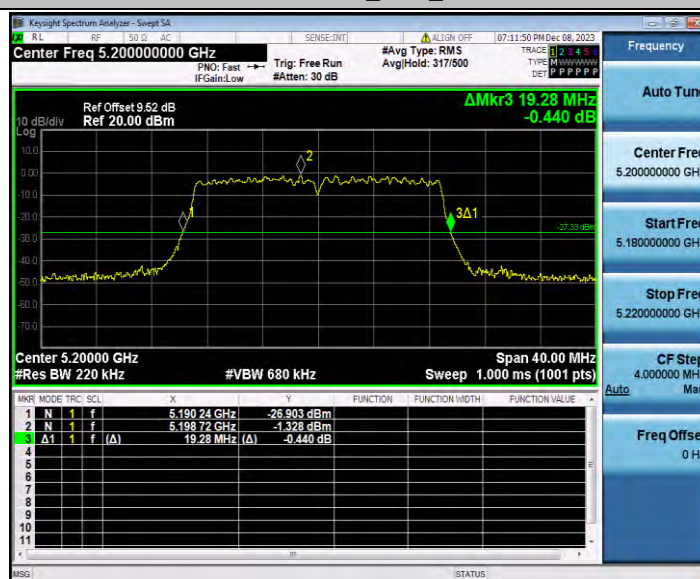
11N40SISO_Ant3_5190



11N40SISO_Ant3_5230



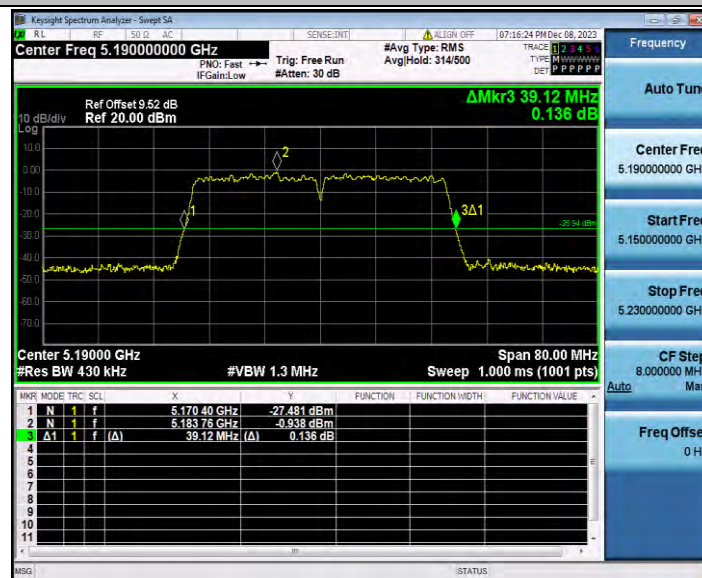
11AC20SISO_Ant3_5180



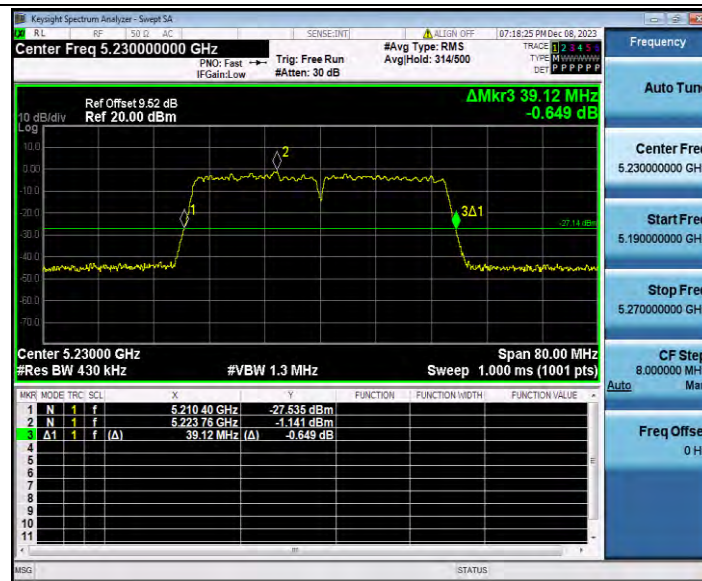
11AC20SISO_Ant3_5200



11AC20SISO_Ant3_5240



11AC40SISO_Ant3_5190



11AC40SISO_Ant3_5230



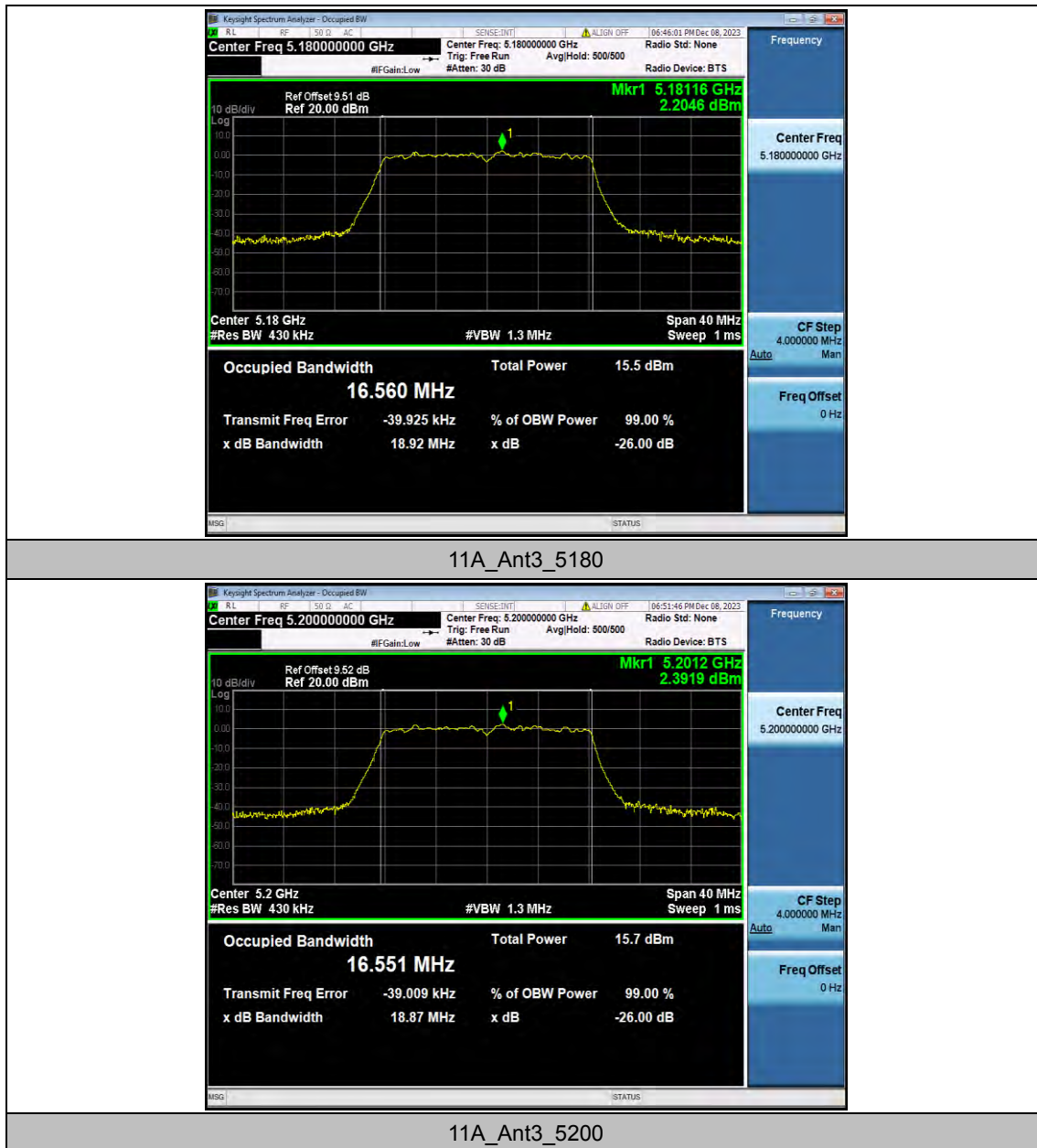
11AC80SISO_Ant3_5210

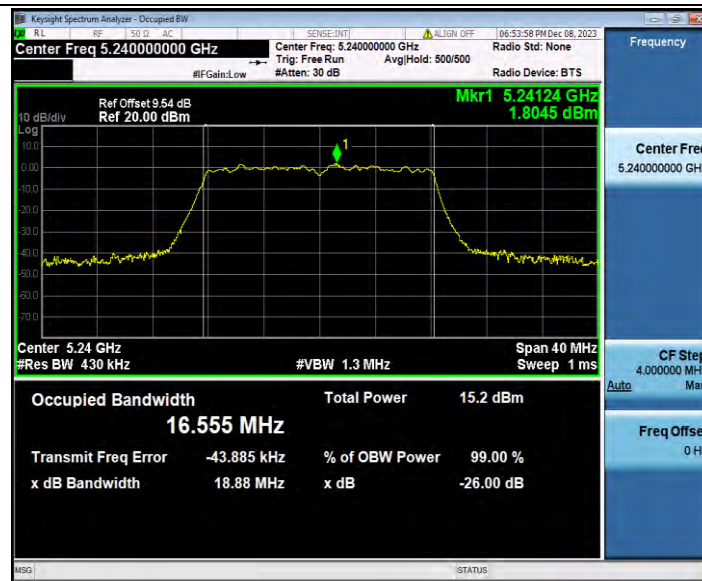
Appendix D.2: Occupied channel bandwidth

Test Result

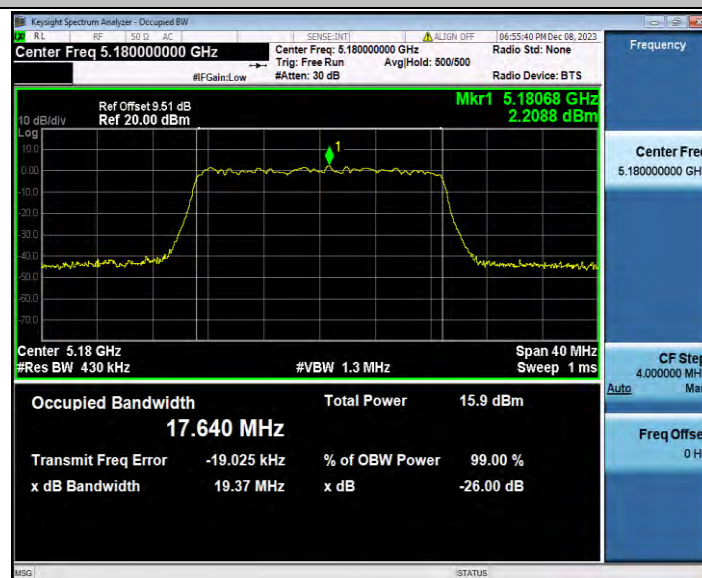
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant3	5180	16.560	5171.680	5188.240	---	---
		5200	16.551	5191.685	5208.236	---	---
		5240	16.555	5231.679	5248.234	---	---
11N20SISO	Ant3	5180	17.640	5171.161	5188.801	---	---
		5200	17.639	5191.161	5208.800	---	---
		5240	17.642	5231.158	5248.800	---	---
11N40SISO	Ant3	5190	36.268	5171.814	5208.082	---	---
		5230	36.270	5211.786	5248.056	---	---
11AC20SISO	Ant3	5180	17.717	5171.105	5188.822	---	---
		5200	17.712	5191.107	5208.819	---	---
		5240	17.719	5231.097	5248.816	---	---
11AC40SISO	Ant3	5190	36.264	5171.827	5208.091	---	---
		5230	36.270	5211.800	5248.070	---	---
11AC80SISO	Ant3	5210	77.133	5171.478	5248.611	---	---

Test Graphs

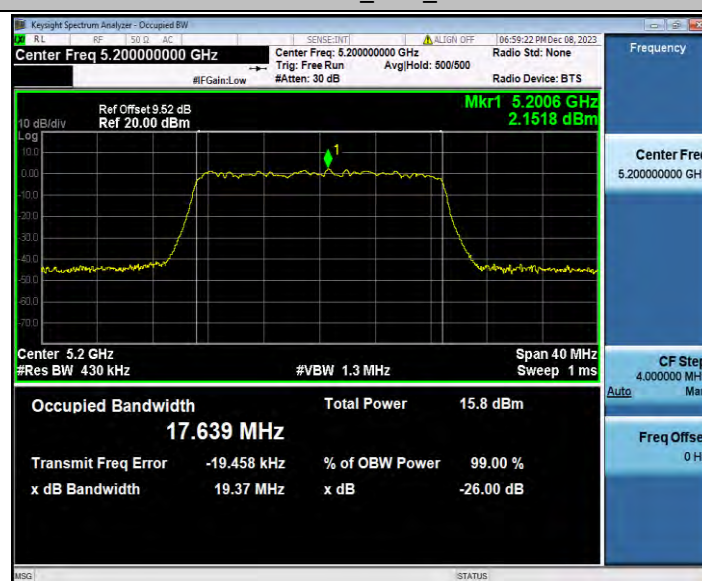




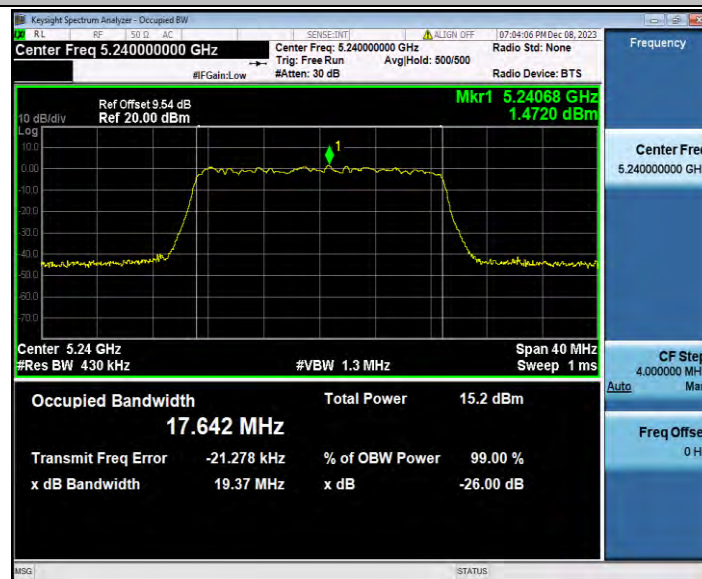
11A_Ant3_5240



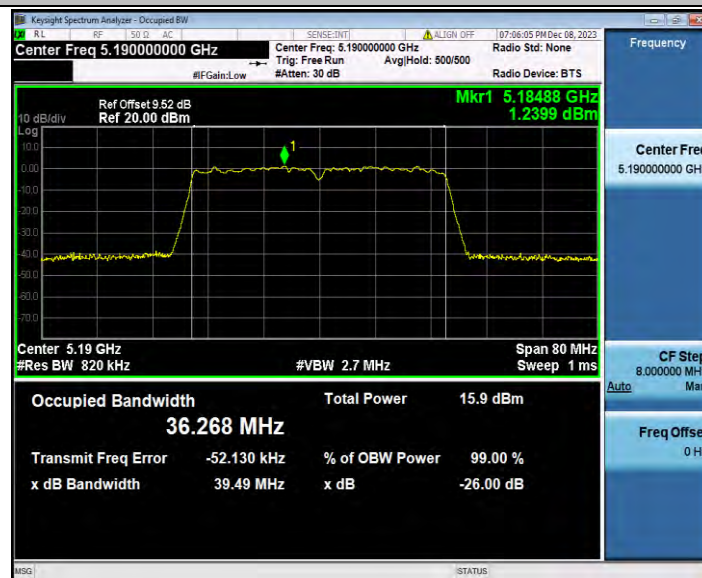
11N20SISO_Ant3_5180



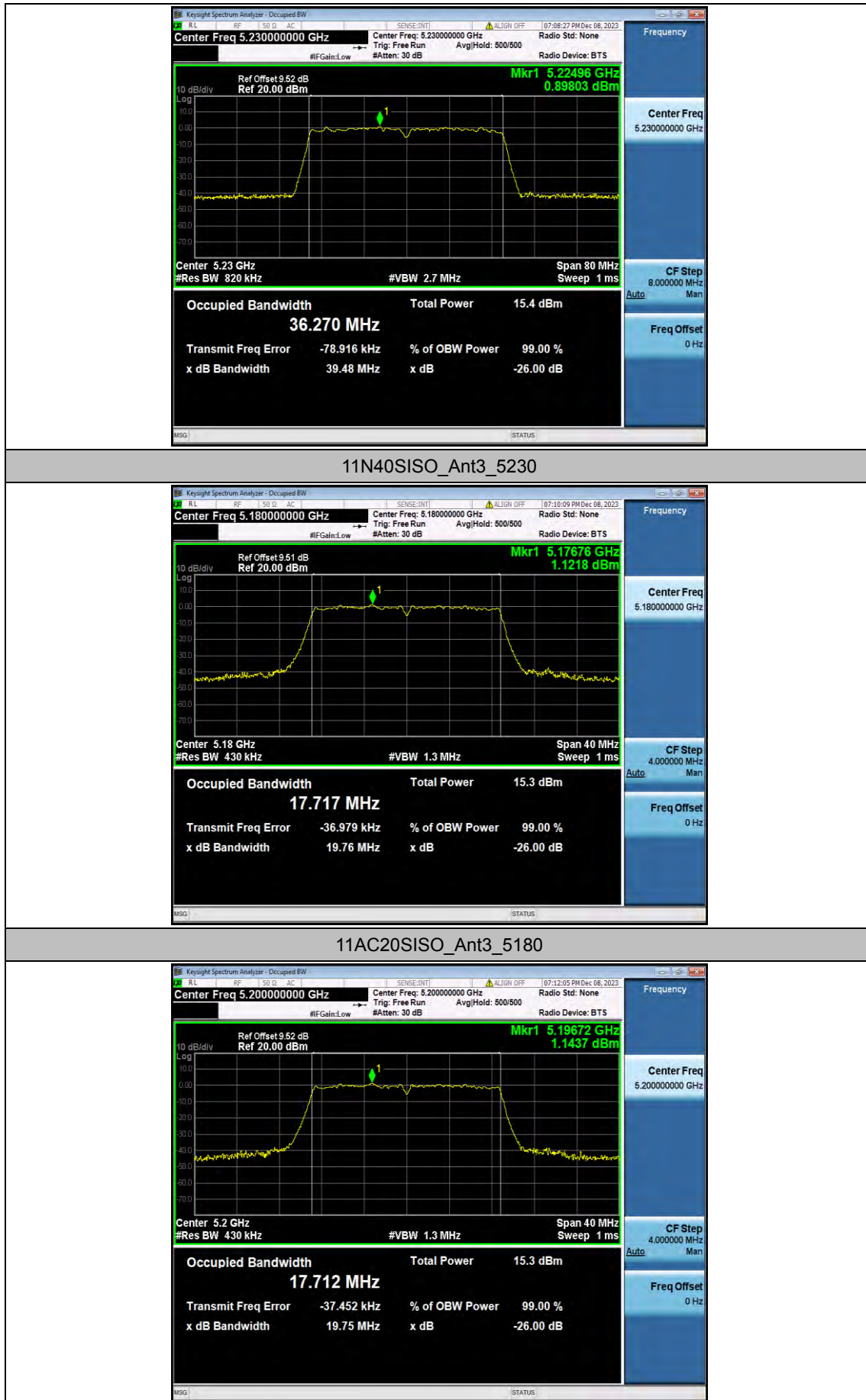
11N20SISO_Ant3_5200



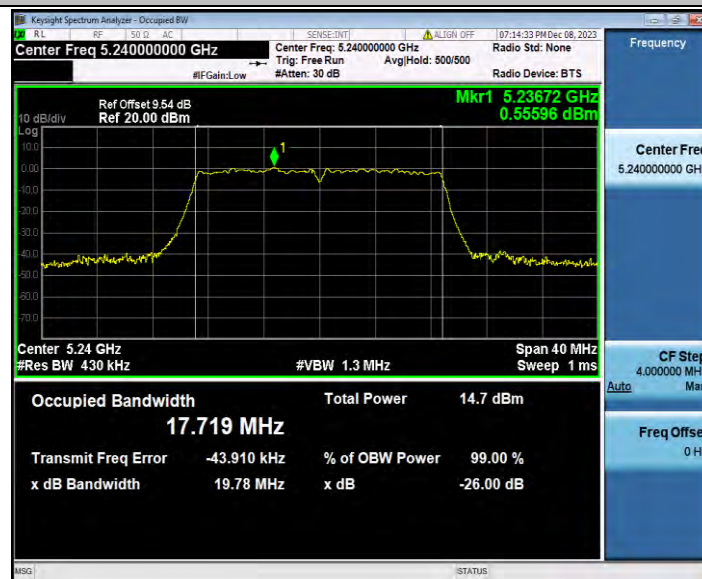
11N20SISO_Ant3_5240



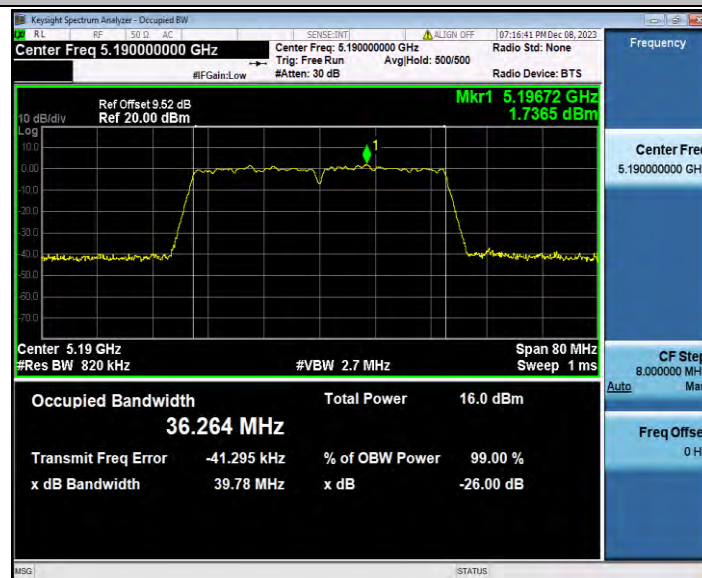
11N40SISO_Ant3_5190



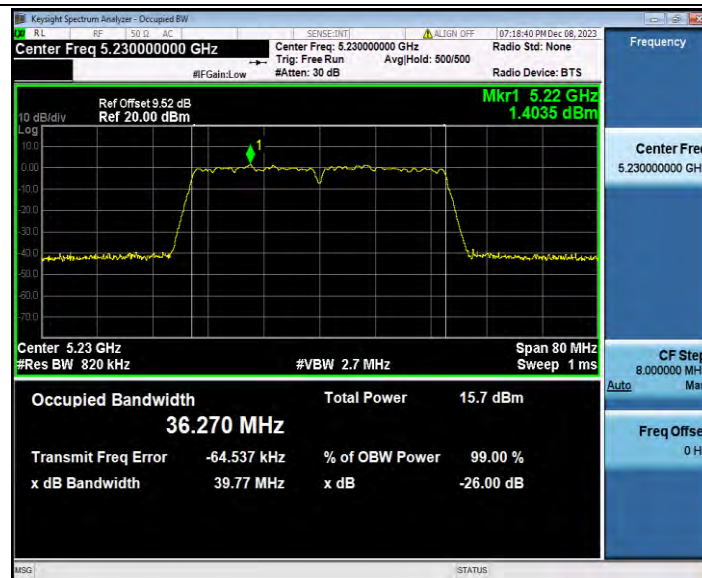
11AC20SISO_Ant3_5200



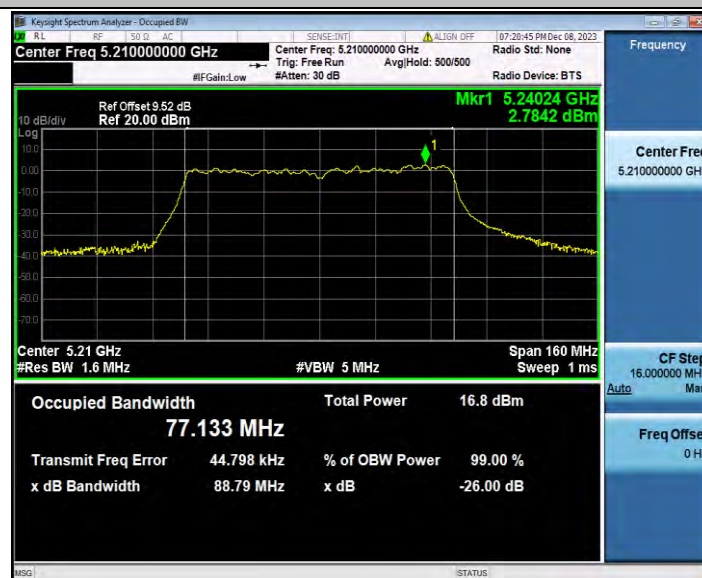
11AC20SISO_Ant3_5240



11AC40SISO_Ant3_5190



11AC40SISO_Ant3_5230



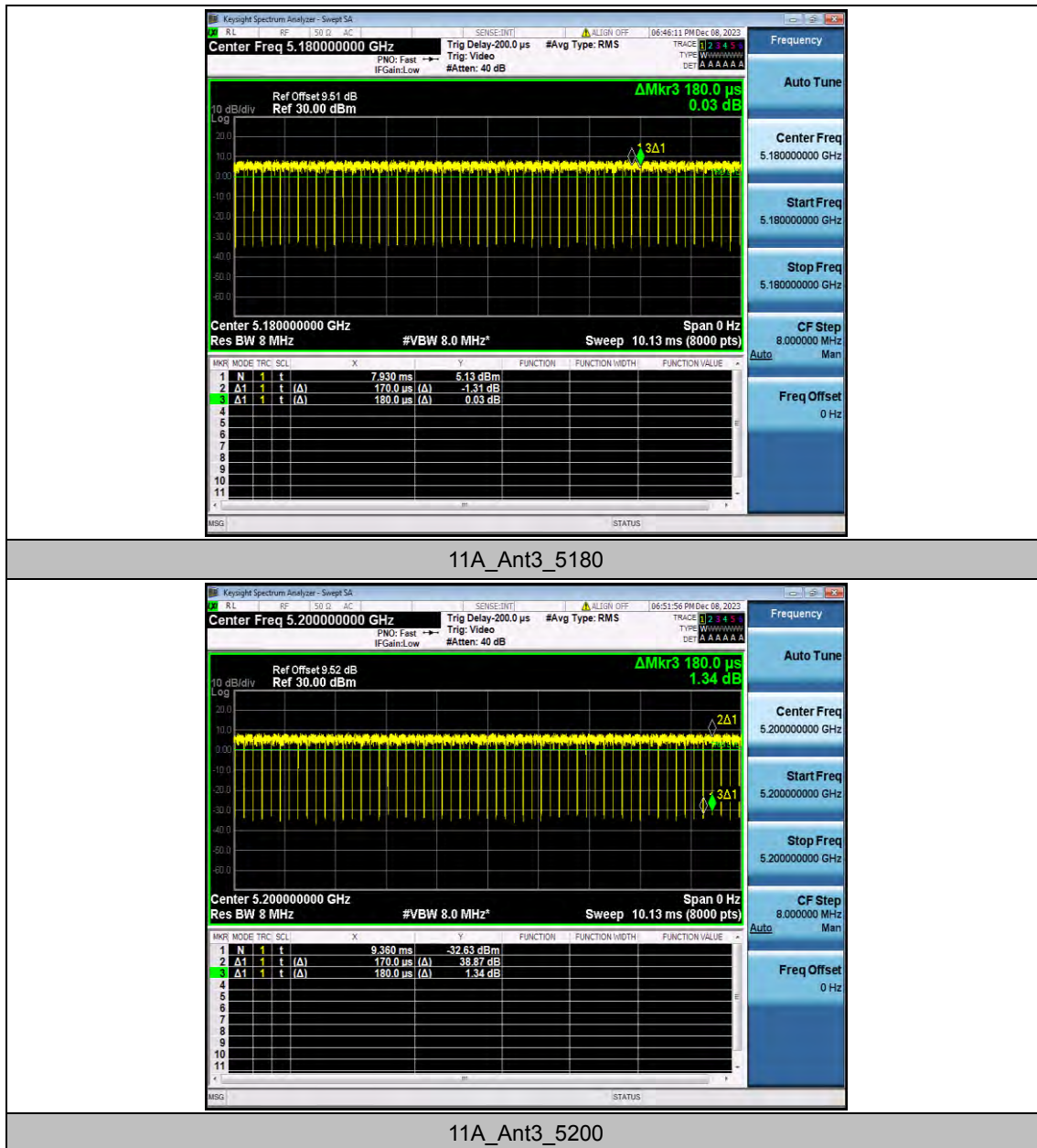
11AC80SISO_Ant3_5210

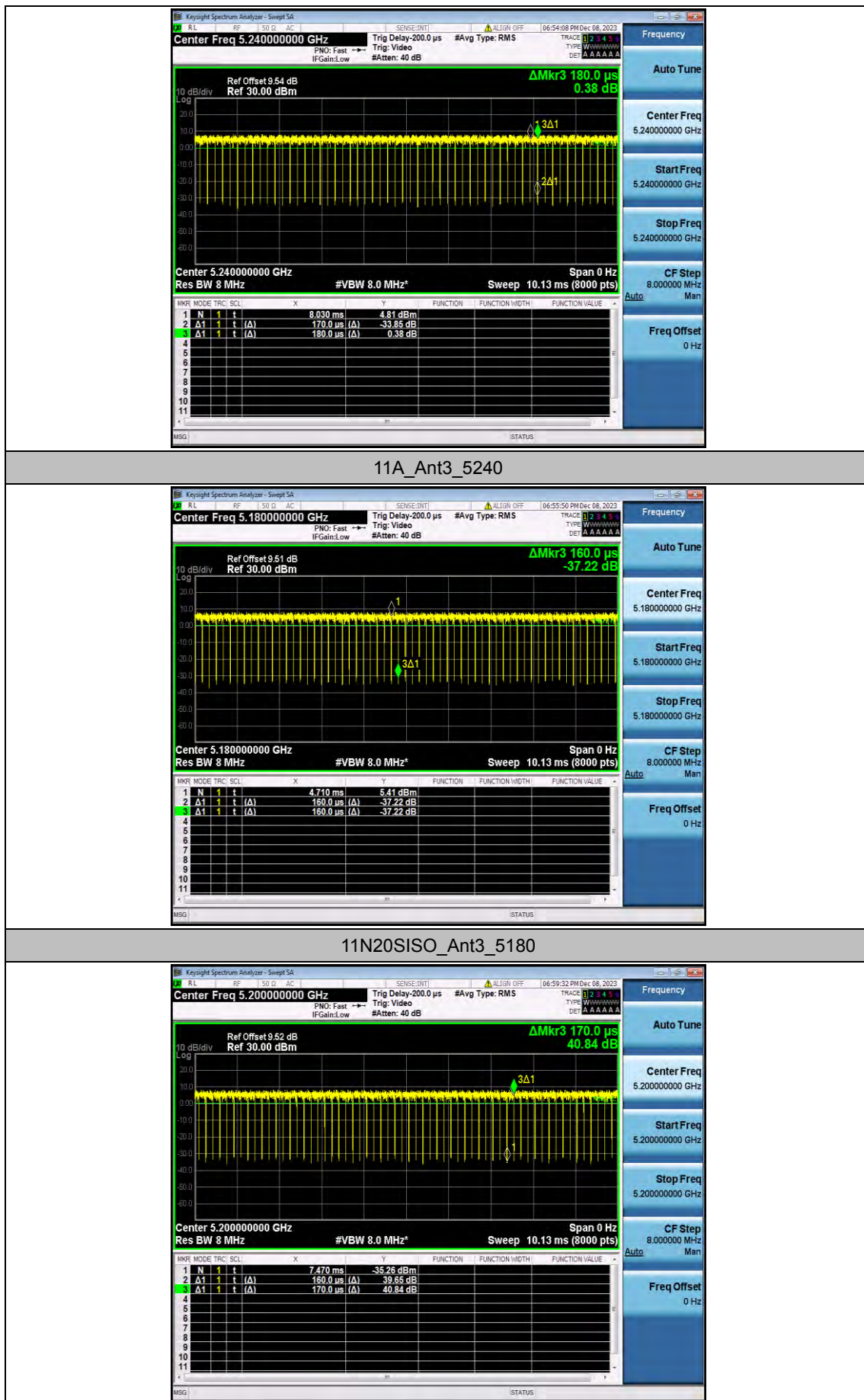
Appendix D.3: Duty Cycle

Test Result

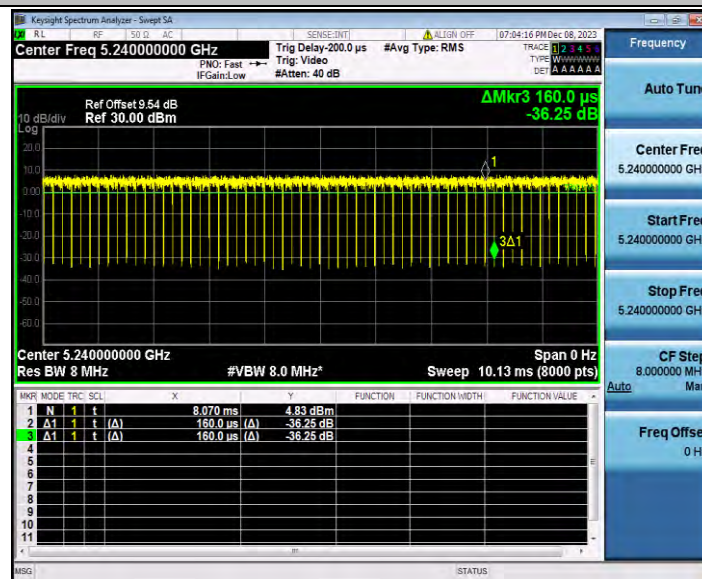
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant3	5180	0.17	0.18	94.44
		5200	0.17	0.18	94.44
		5240	0.17	0.18	94.44
11N20SISO	Ant3	5180	0.16	0.16	100.00
		5200	0.16	0.17	94.12
		5240	0.16	0.16	100.00
11N40SISO	Ant3	5190	0.10	0.10	100.00
		5230	0.09	0.10	90.00
11AC20SISO	Ant3	5180	0.14	0.15	93.33
		5200	0.13	0.14	92.86
		5240	0.14	0.14	100.00
11AC40SISO	Ant3	5190	0.09	0.10	90.00
		5230	0.09	0.10	90.00
11AC80SISO	Ant3	5210	0.06	0.07	85.71

Test Graphs

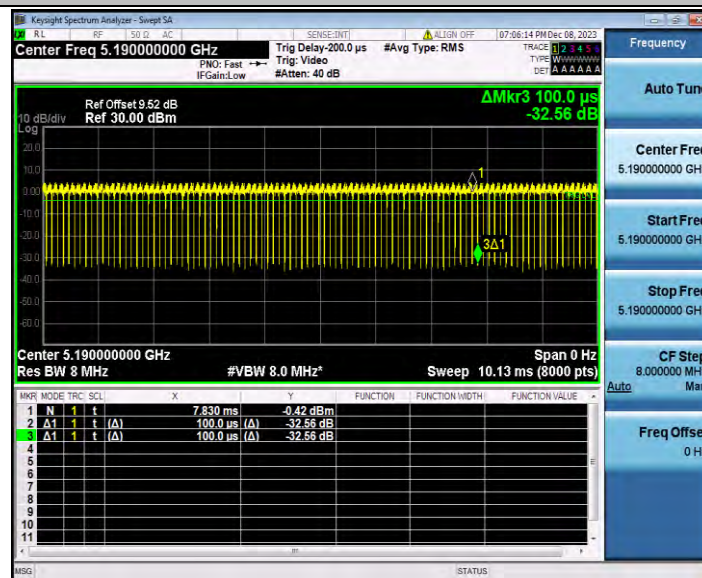




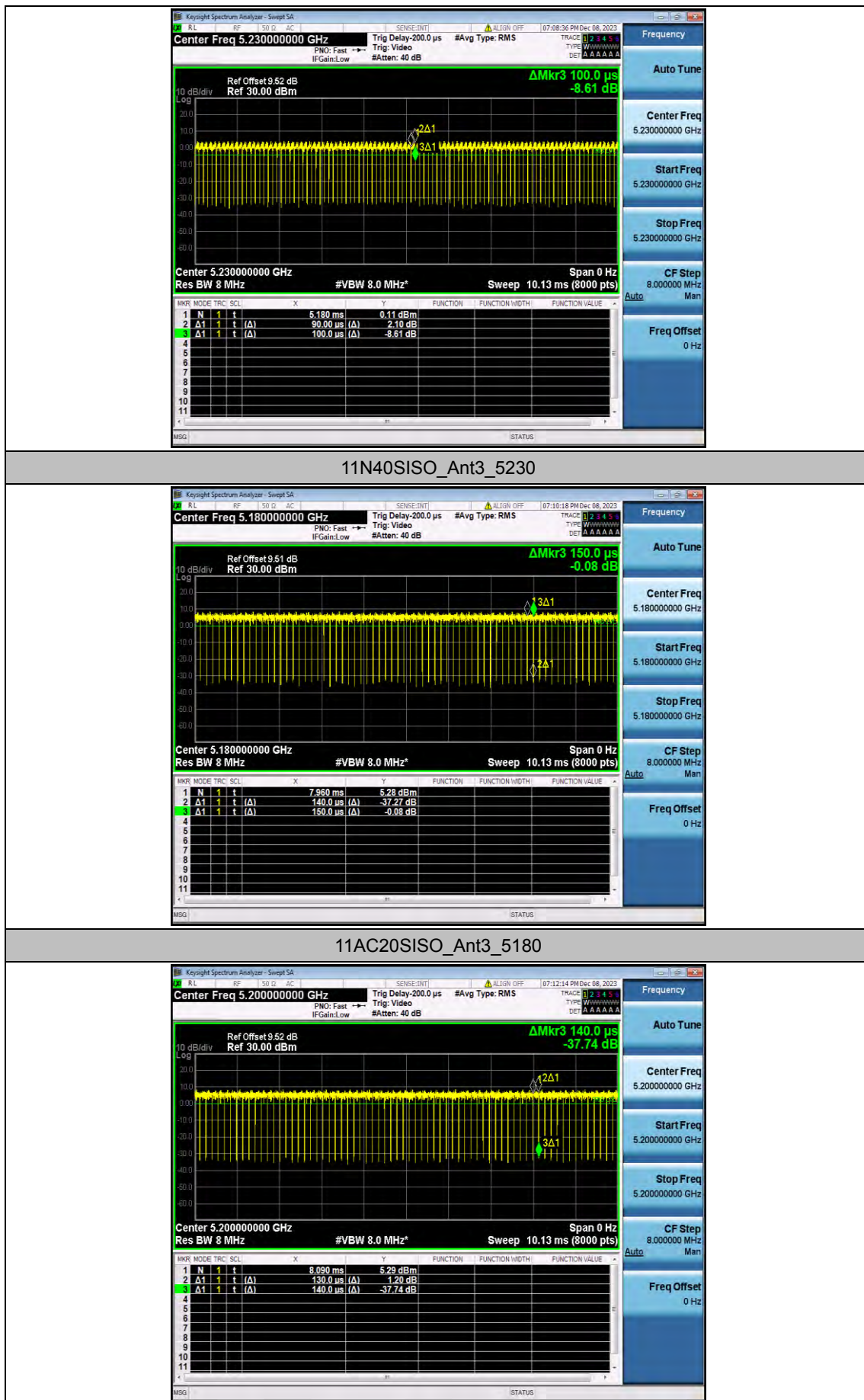
11N20SISO_Ant3_5200



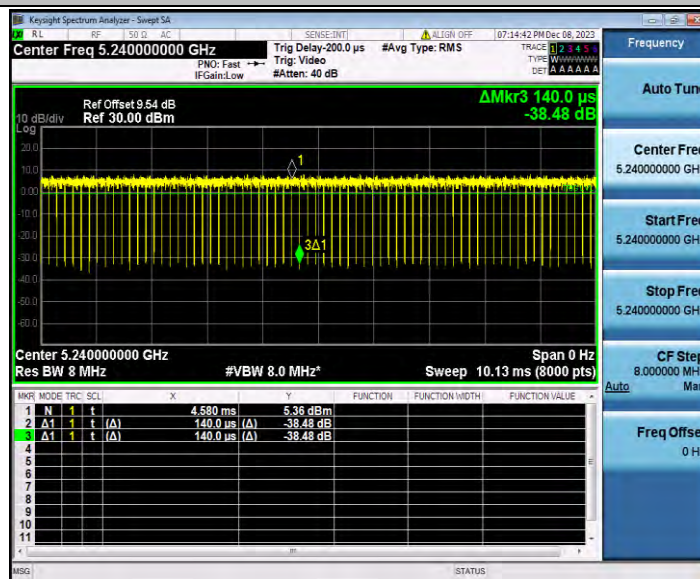
11N20SISO_Ant3_5240



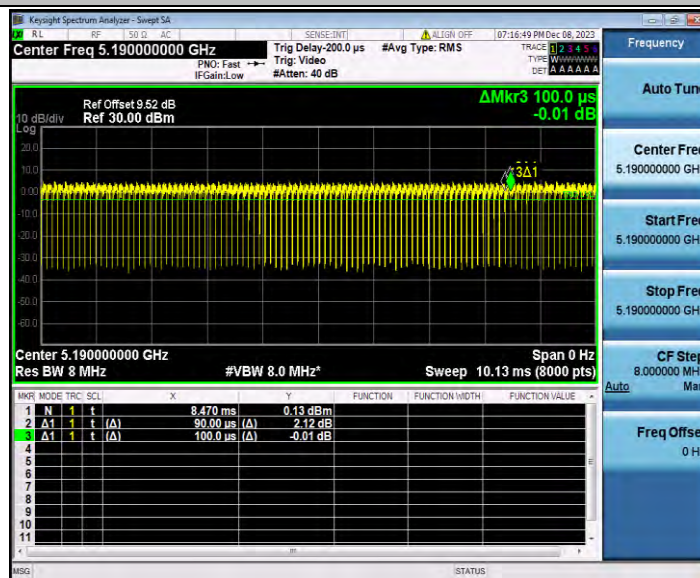
11N40SISO_Ant3_5190



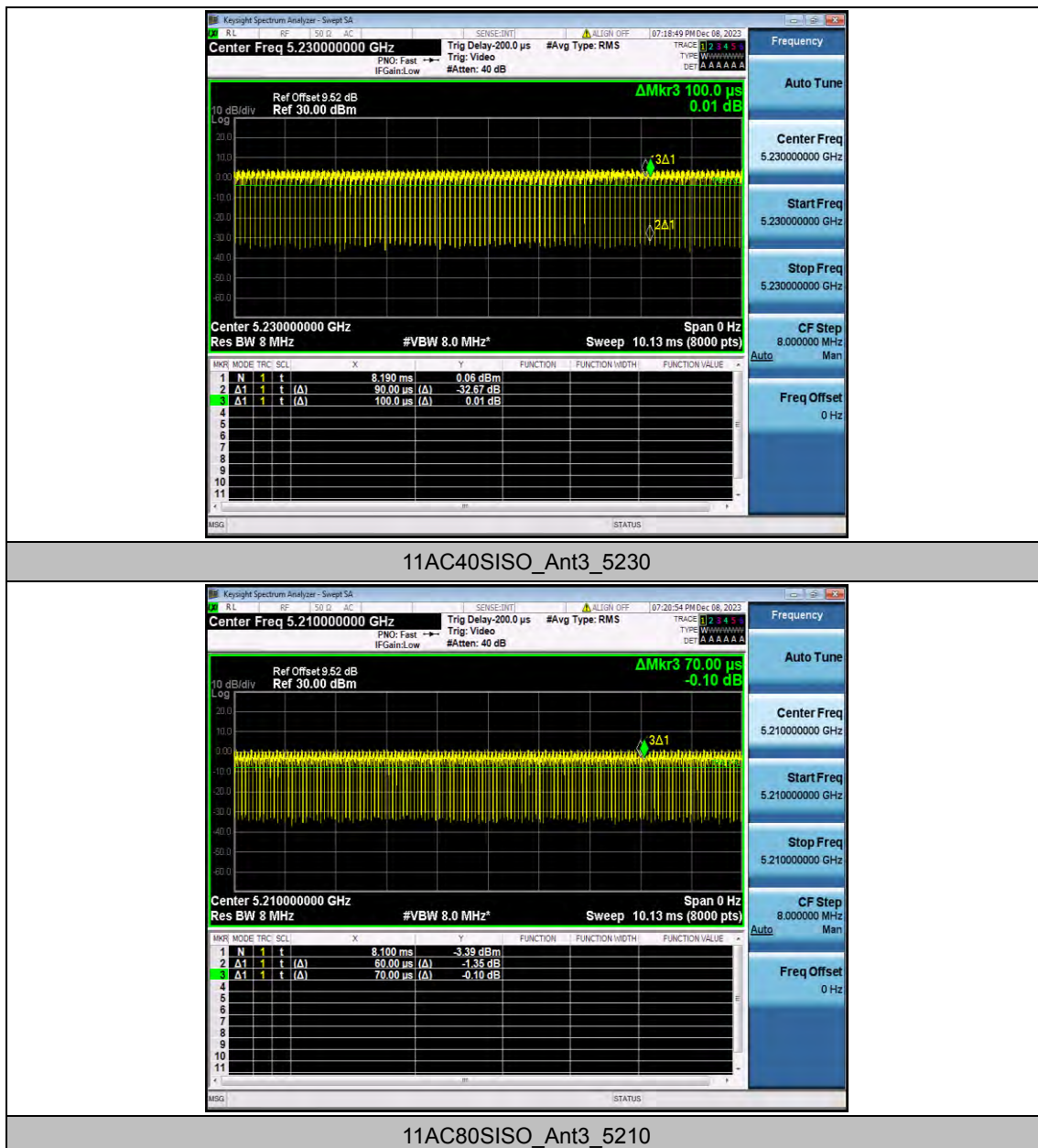
11AC20SISO_Ant3_5200



11AC20SISO_Ant3_5240



11AC40SISO_Ant3_5190



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	Ant3	5180	8.46	94.44	0.25	8.71	≤23.98	PASS
		5200	8.70	94.44	0.25	8.95	≤23.98	PASS
		5240	8.17	94.44	0.25	8.42	≤23.98	PASS
11N20SISO	Ant3	5180	8.89	100.00	0.00	8.89	≤23.98	PASS
		5200	8.78	94.12	0.26	9.04	≤23.98	PASS
		5240	8.17	100.00	0.00	8.17	≤23.98	PASS
11N40SISO	Ant3	5190	8.60	100.00	0.00	8.60	≤23.98	PASS
		5230	8.12	90.00	0.46	8.58	≤23.98	PASS
11AC20SISO	Ant3	5180	8.67	93.33	0.30	8.97	≤23.98	PASS
		5200	8.69	92.86	0.32	9.01	≤23.98	PASS
		5240	8.08	100.00	0.00	8.08	≤23.98	PASS
11AC40SISO	Ant3	5190	8.51	90.00	0.46	8.97	≤23.98	PASS
		5230	8.23	90.00	0.46	8.69	≤23.98	PASS
11AC80SISO	Ant3	5210	8.64	85.71	0.67	9.31	≤23.98	PASS

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

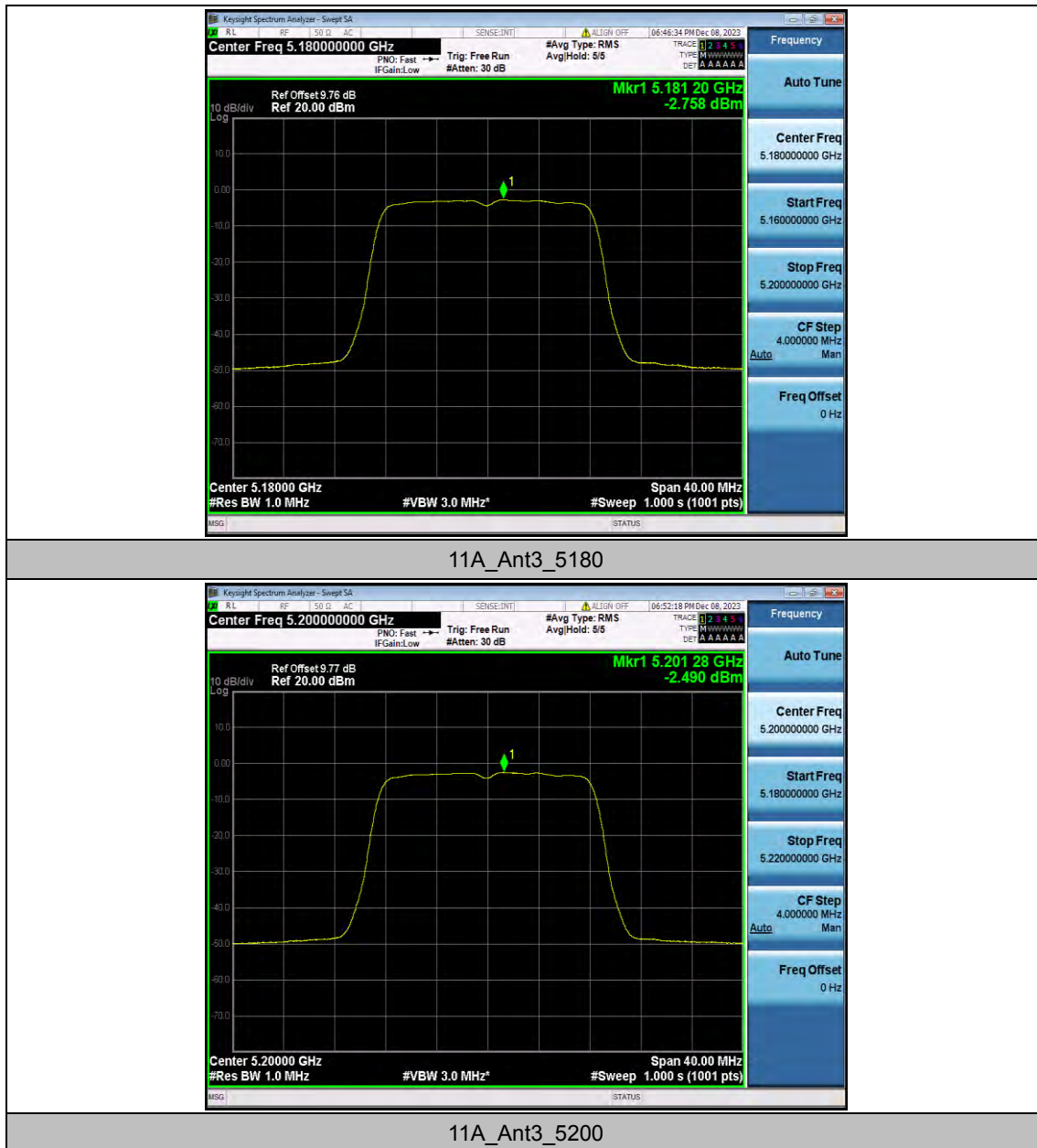
Appendix D.5: Maximum power spectral density

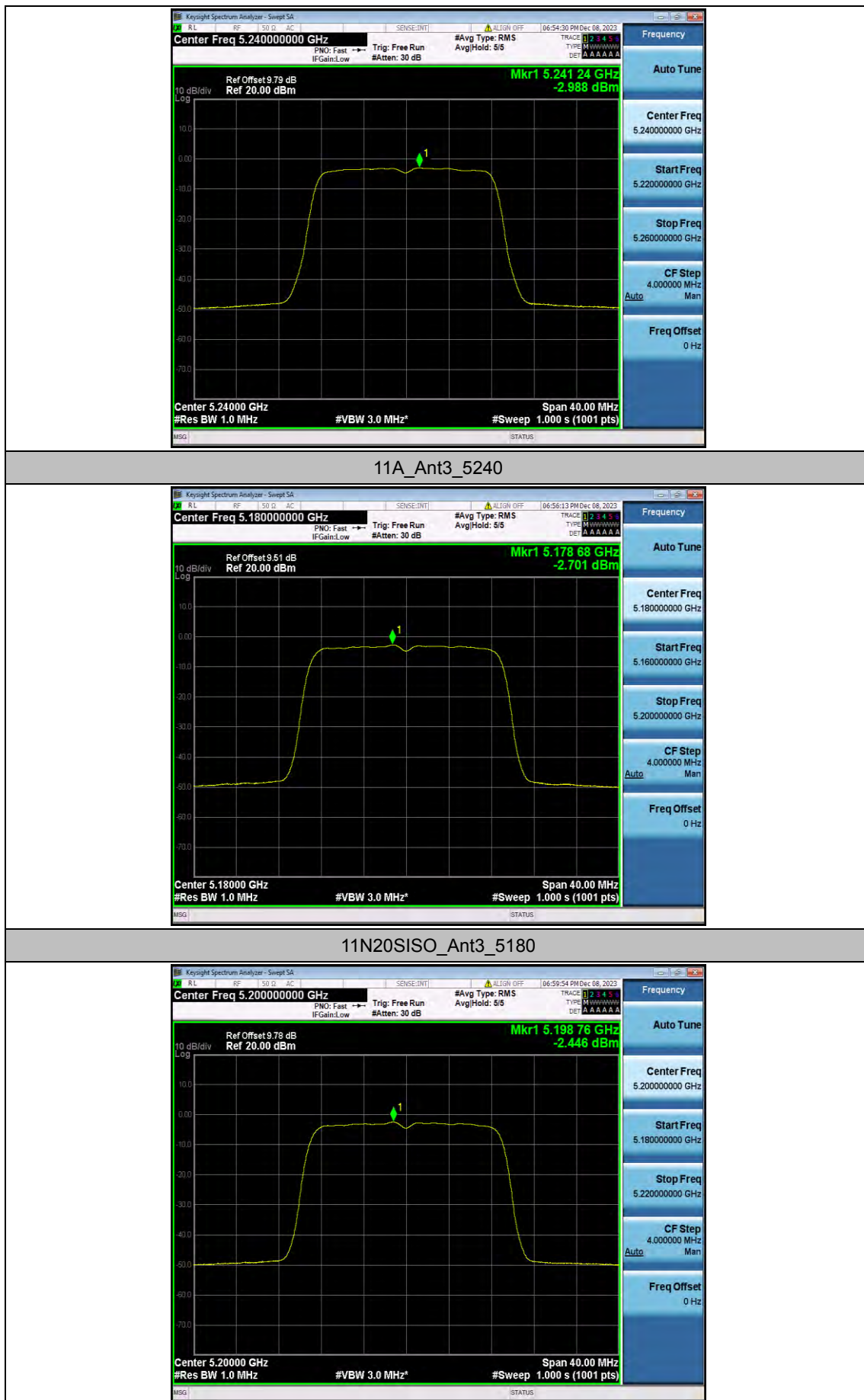
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant3	5180	-2.76	≤11.00	PASS
		5200	-2.49	≤11.00	PASS
		5240	-2.99	≤11.00	PASS
11N20SISO	Ant3	5180	-2.7	≤11.00	PASS
		5200	-2.45	≤11.00	PASS
		5240	-3.26	≤11.00	PASS
11N40SISO	Ant3	5190	-5.85	≤11.00	PASS
		5230	-5.97	≤11.00	PASS
11AC20SISO	Ant3	5180	-2.6	≤11.00	PASS
		5200	-2.52	≤11.00	PASS
		5240	-3.35	≤11.00	PASS
11AC40SISO	Ant3	5190	-5.27	≤11.00	PASS
		5230	-5.38	≤11.00	PASS
11AC80SISO	Ant3	5210	-7.26	≤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





11N20SISO_Ant3_5200



11N20SISO_Ant3_5240



11N40SISO_Ant3_5190



11N40SISO_Ant3_5230



11AC20SISO_Ant3_5180



11AC20SISO_Ant3_5200



11AC20SISO_Ant3_5240



11AC40SISO_Ant3_5190



11AC40SISO_Ant3_5230



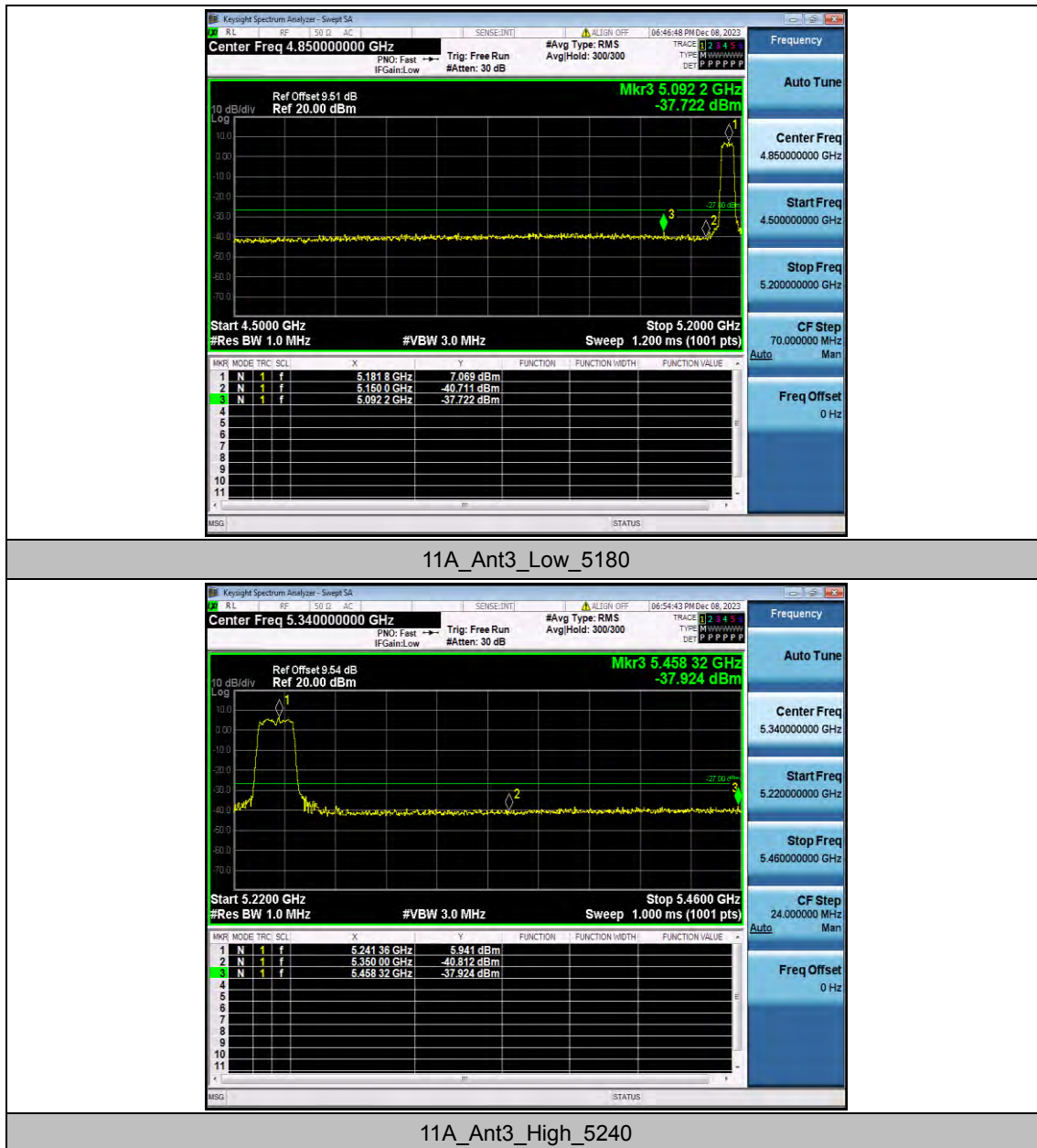
11AC80SISO_Ant3_5210

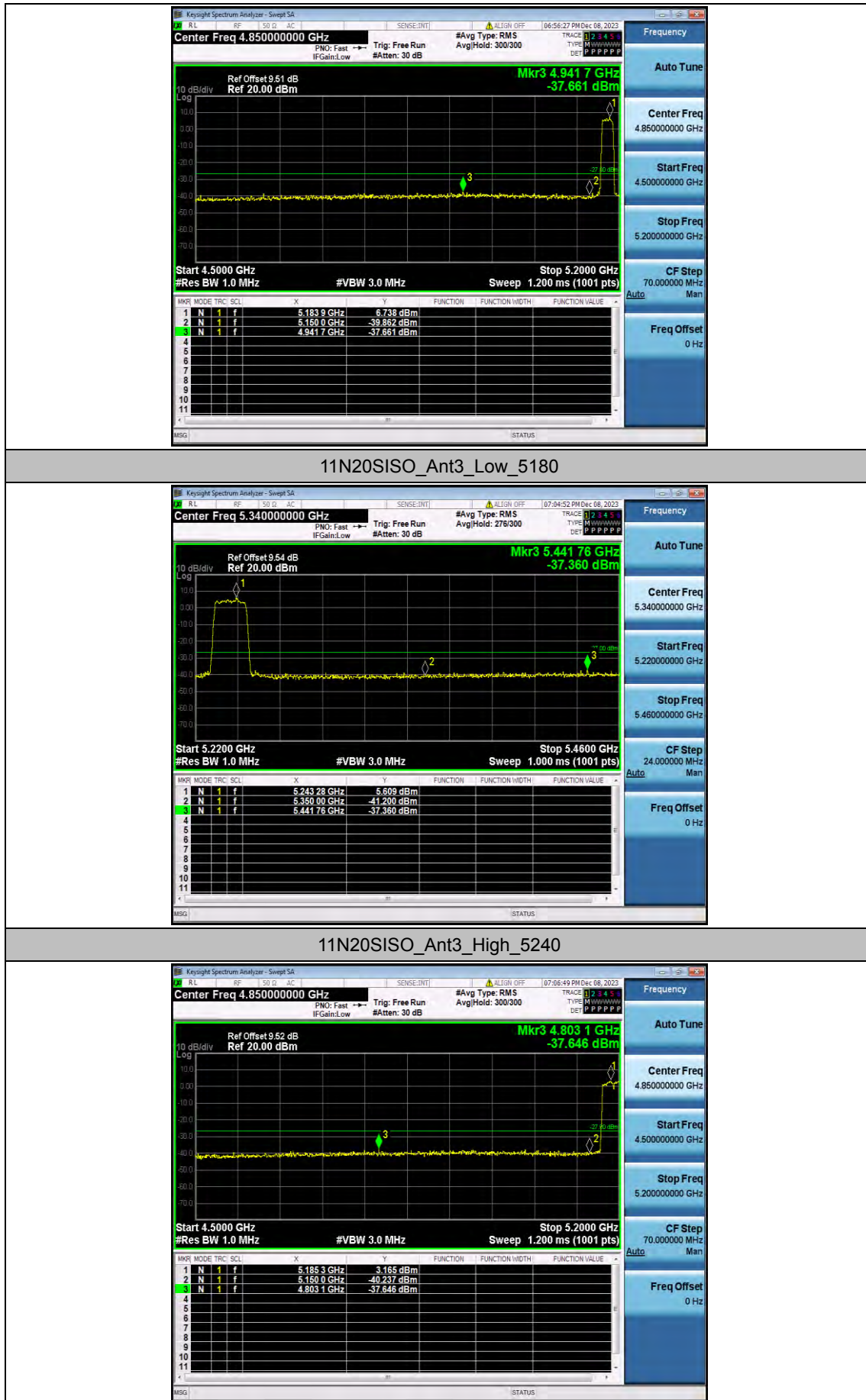
Appendix D.6: Band edge measurements

Test Result B1

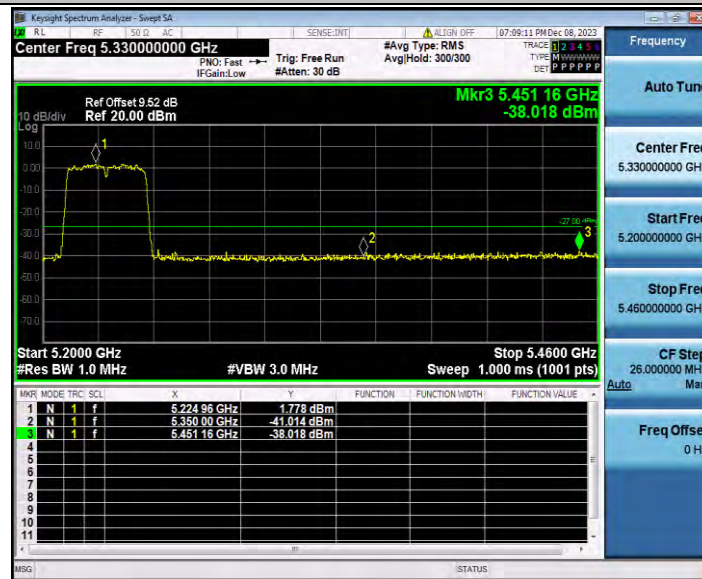
Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant3	Low	5180	-37.72	≤ -27	PASS
		High	5240	-37.92	≤ -27	PASS
11N20SISO	Ant3	Low	5180	-37.66	≤ -27	PASS
		High	5240	-37.36	≤ -27	PASS
11N40SISO	Ant3	Low	5190	-37.65	≤ -27	PASS
		High	5230	-38.02	≤ -27	PASS
11AC20SISO	Ant3	Low	5180	-37.52	≤ -27	PASS
		High	5240	-37.81	≤ -27	PASS
11AC40SISO	Ant3	Low	5190	-37.38	≤ -27	PASS
		High	5230	-38.12	≤ -27	PASS
11AC80SISO	Ant3	Low	5210	-37.51	≤ -27	PASS
		High	5210	-37.74	≤ -27	PASS

Test Graphs B1

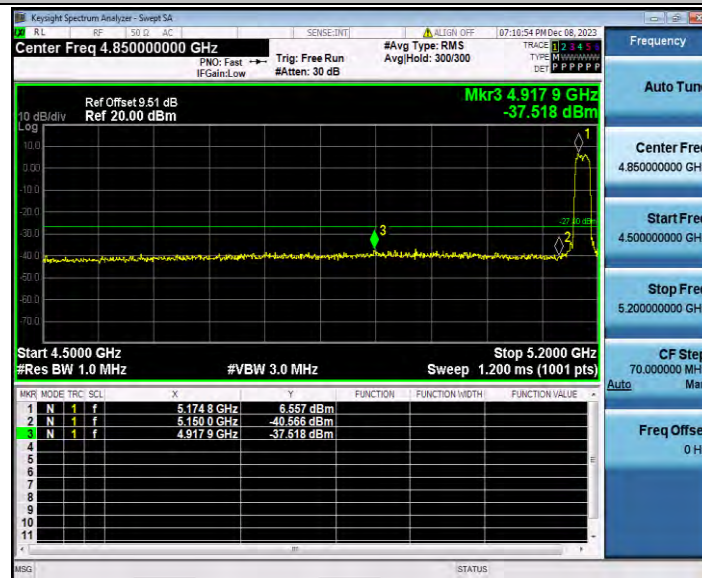




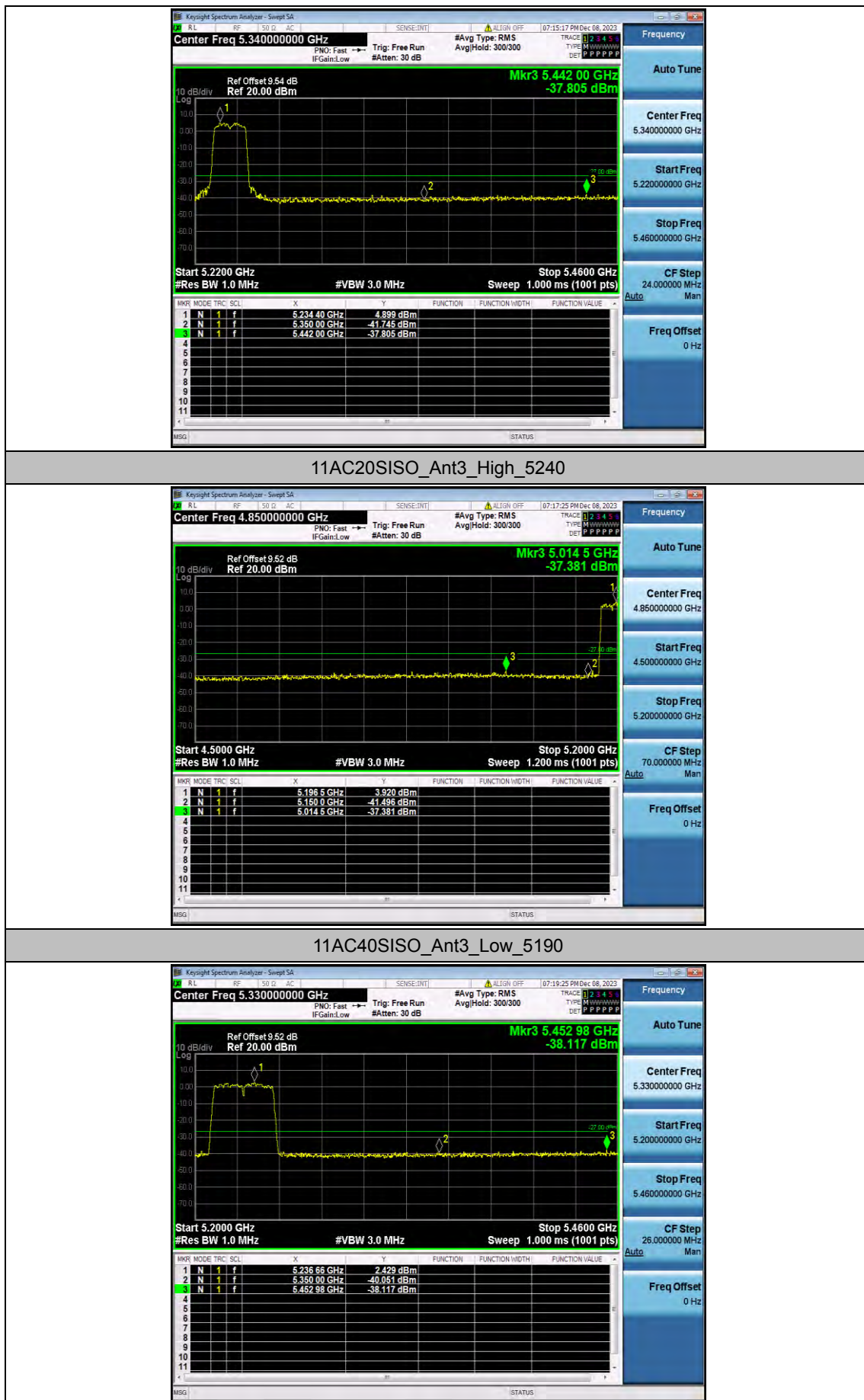
11N40SISO_Ant3_Low_5190



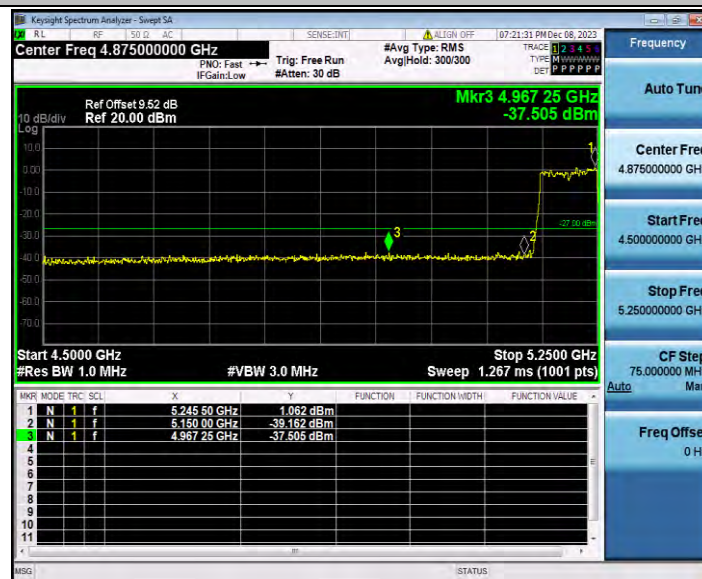
11N40SISO_Ant3_High_5230



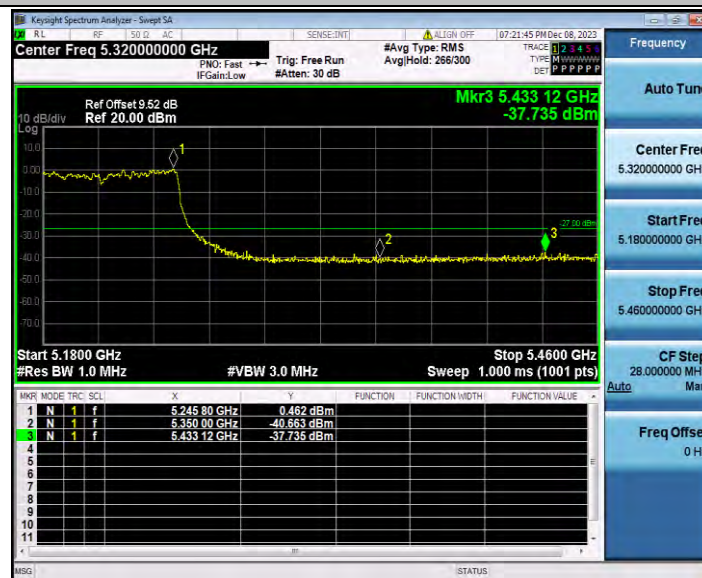
11AC20SISO_Ant3_Low_5180



11AC40SISO_Ant3_High_5230



11AC80SISO_Ant3_Low_5210



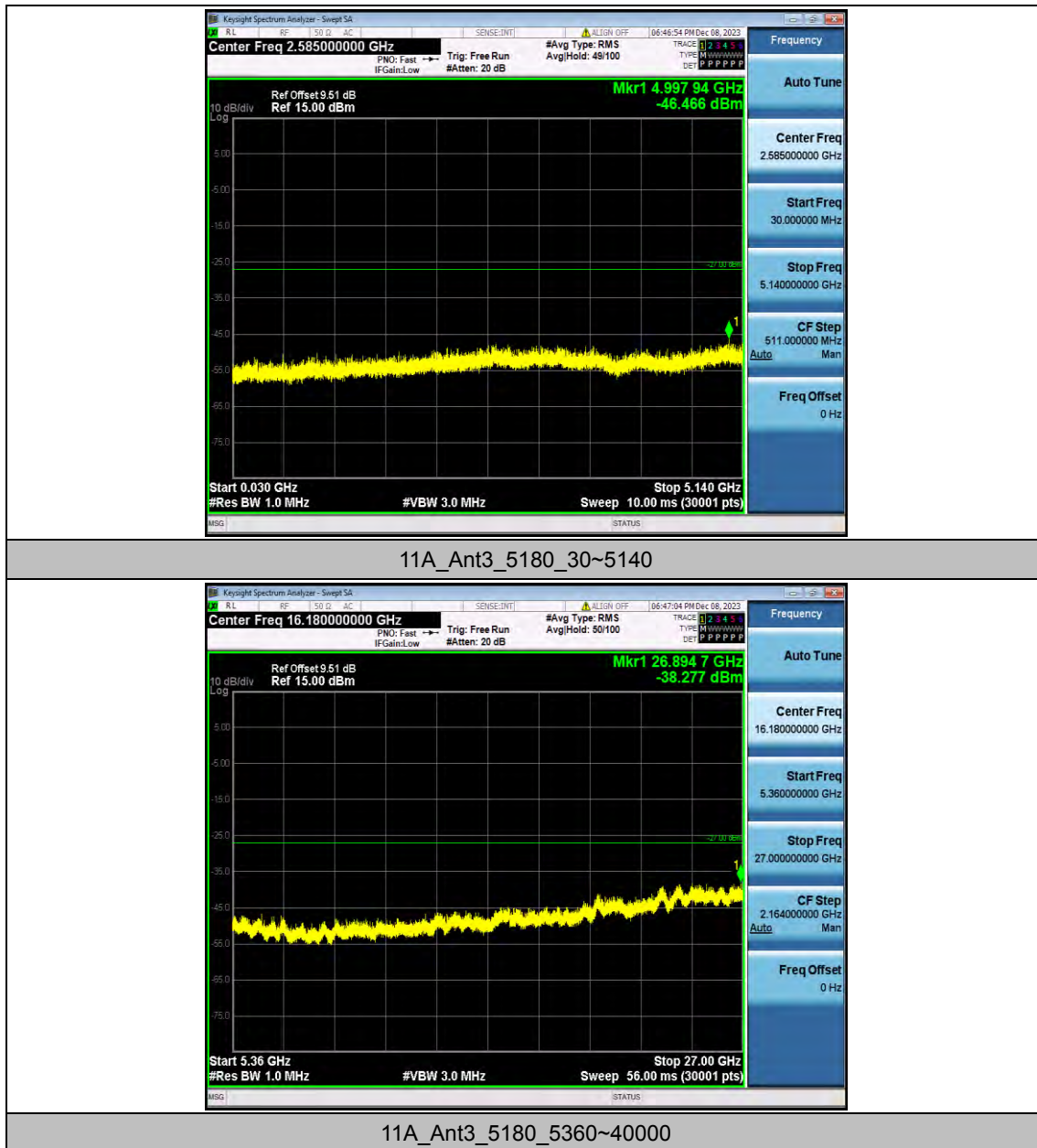
11AC80SISO_Ant3_High_5210

Appendix D.7: Conducted Spurious Emission

Test Result

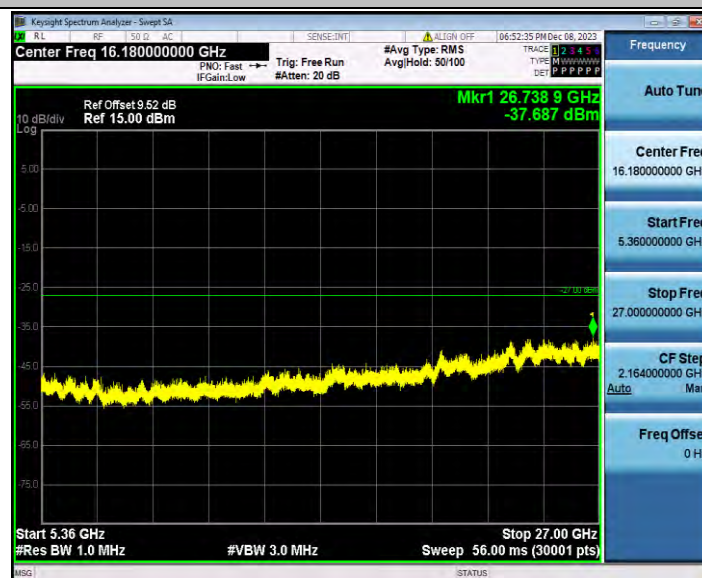
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant3	5180	30~5140	4997.94	-46.47	≤-27	PASS
			5360~40000	26894.69	-38.28	≤-27	PASS
		5200	30~5140	4822.84	-47.4	≤-27	PASS
			5360~40000	26738.88	-37.69	≤-27	PASS
		5240	30~5140	5022.98	-47.29	≤-27	PASS
			5360~40000	26786.49	-37.72	≤-27	PASS
11N20SISO	Ant3	5180	30~5140	5129.61	-47.37	≤-27	PASS
			5360~40000	26870.16	-37.24	≤-27	PASS
		5200	30~5140	2664.38	-47.1	≤-27	PASS
			5360~40000	23602.52	-37.93	≤-27	PASS
		5240	30~5140	5021.79	-47.13	≤-27	PASS
			5360~40000	23531.83	-37.77	≤-27	PASS
11N40SISO	Ant3	5190	30~5140	5123.99	-46.65	≤-27	PASS
			5360~40000	24836.72	-37.89	≤-27	PASS
		5230	30~5140	4912.95	-47.12	≤-27	PASS
			5360~40000	26419.33	-37.61	≤-27	PASS
11AC20SISO	Ant3	5180	30~5140	2665.91	-46.78	≤-27	PASS
			5360~40000	26726.61	-37.59	≤-27	PASS
		5200	30~5140	4934.58	-47.32	≤-27	PASS
			5360~40000	24246.67	-38	≤-27	PASS
		5240	30~5140	4970.01	-47.28	≤-27	PASS
			5360~40000	24962.23	-37.73	≤-27	PASS
11AC40SISO	Ant3	5190	30~5140	5138.98	-46.37	≤-27	PASS
			5360~40000	23482.78	-38.35	≤-27	PASS
		5230	30~5140	2663.01	-47.62	≤-27	PASS
			5360~40000	24821.57	-38.14	≤-27	PASS
11AC80SISO	Ant3	5210	30~5140	5116.32	-43.97	≤-27	PASS
			5360~40000	25614.32	-37.88	≤-27	PASS

Test Graphs

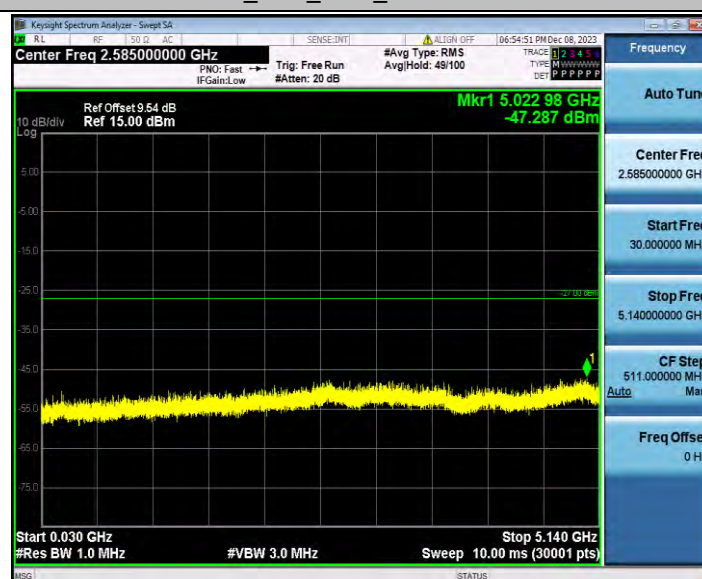




11A_Ant3_5200_30~5140



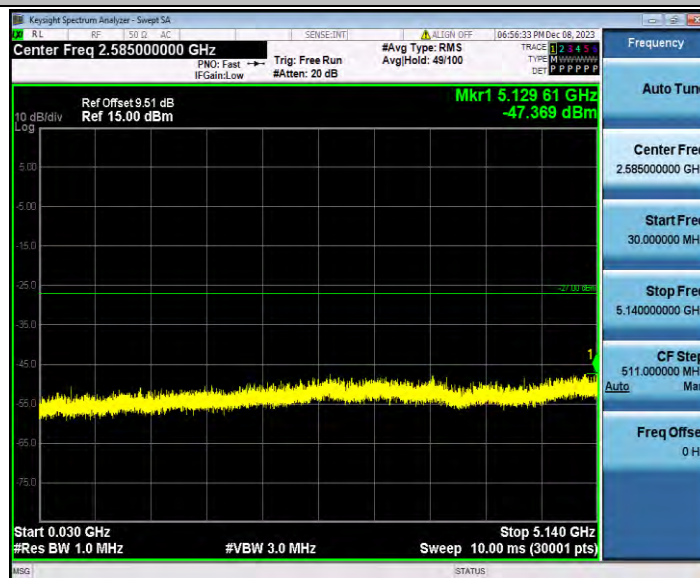
11A_Ant3_5200_5360~40000



11A_Ant3_5240_30~5140



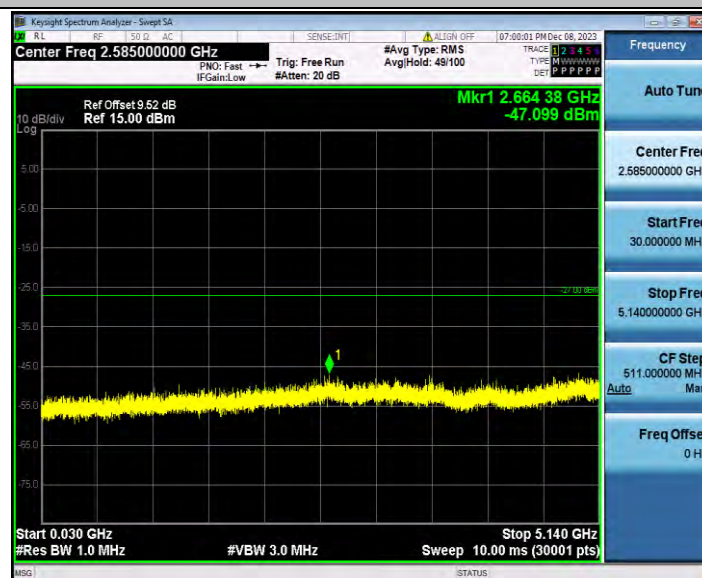
11A_Ant3_5240_5360~40000



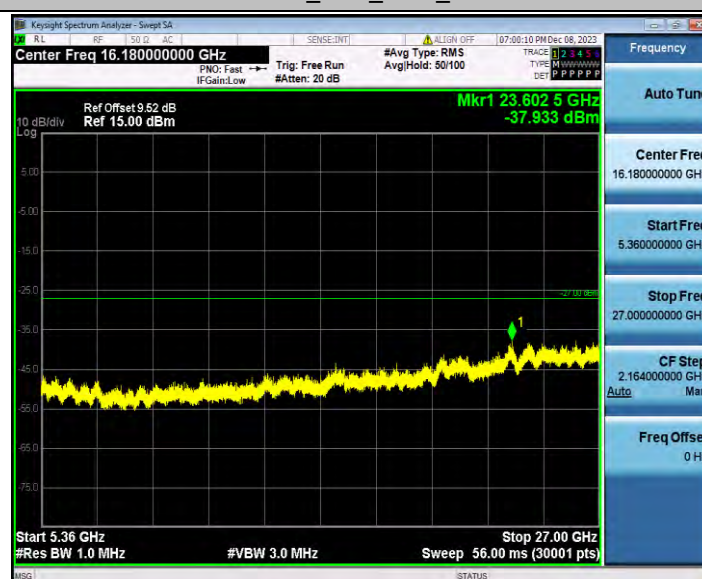
11N20SISO_Ant3_5180_30~5140



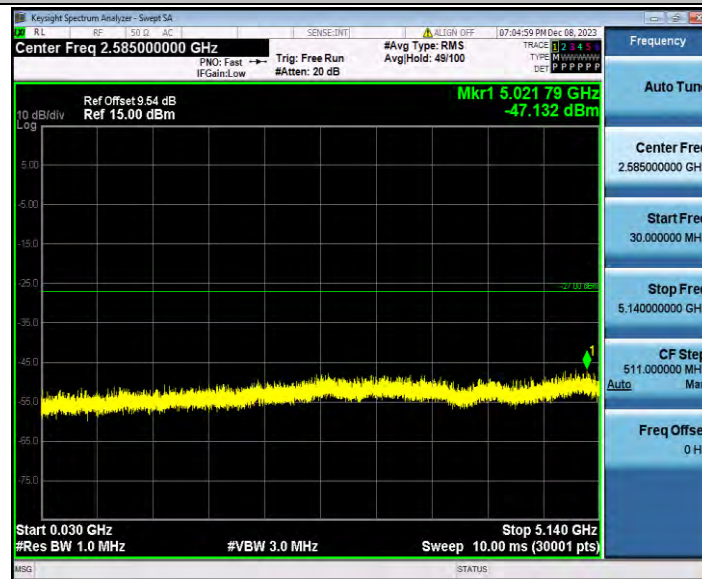
11N20SISO_Ant3_5180_5360~40000



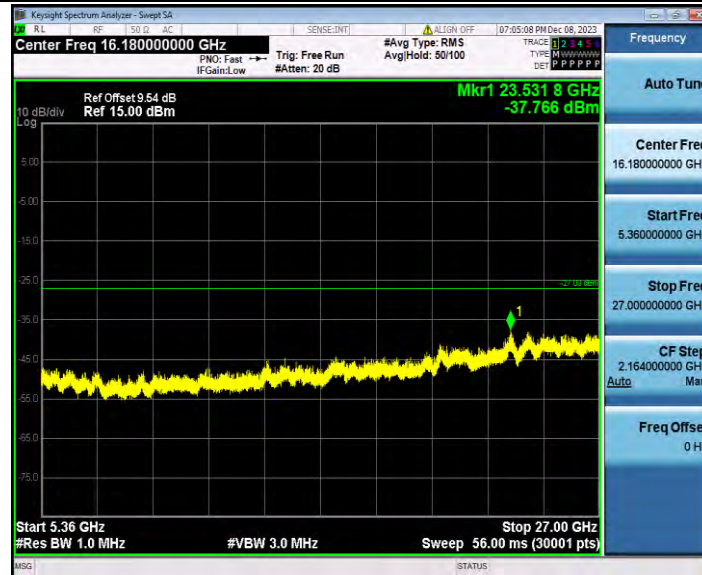
11N20SISO_Ant3_5200_30~5140



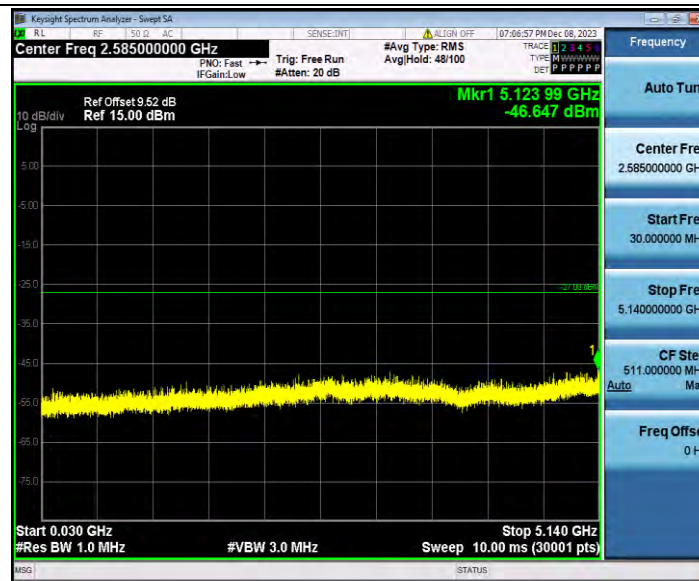
11N20SISO_Ant3_5200_5360~40000



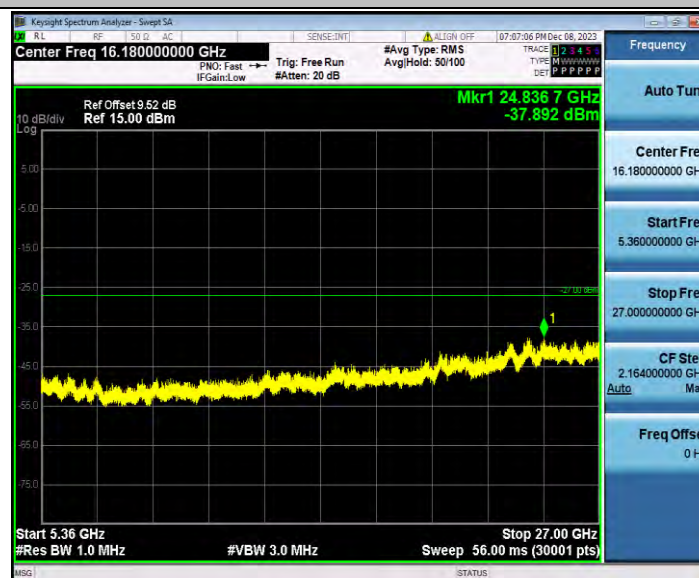
11N20SISO_Ant3_5240_30~5140



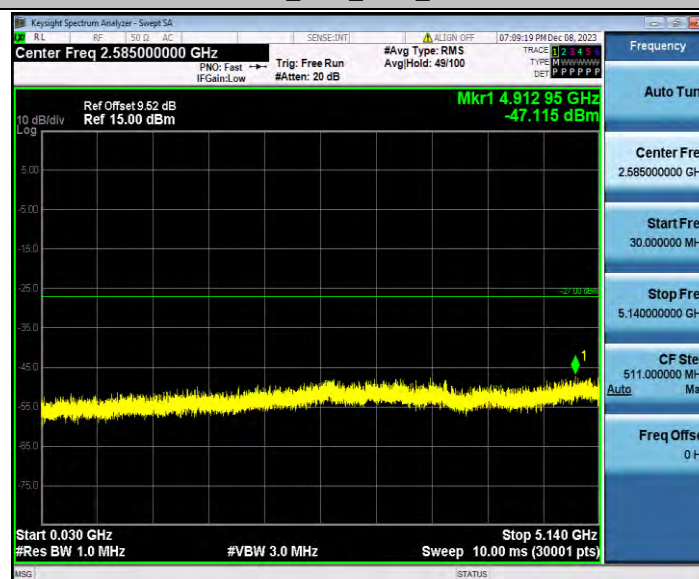
11N20SISO_Ant3_5240_5360~40000



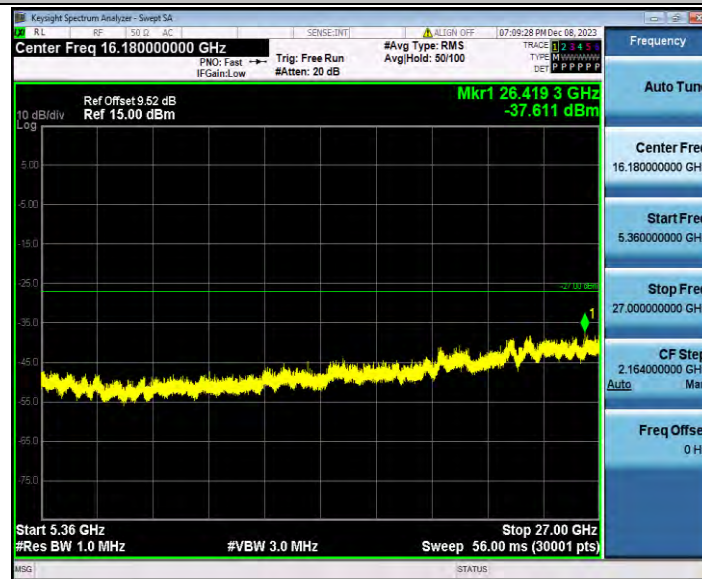
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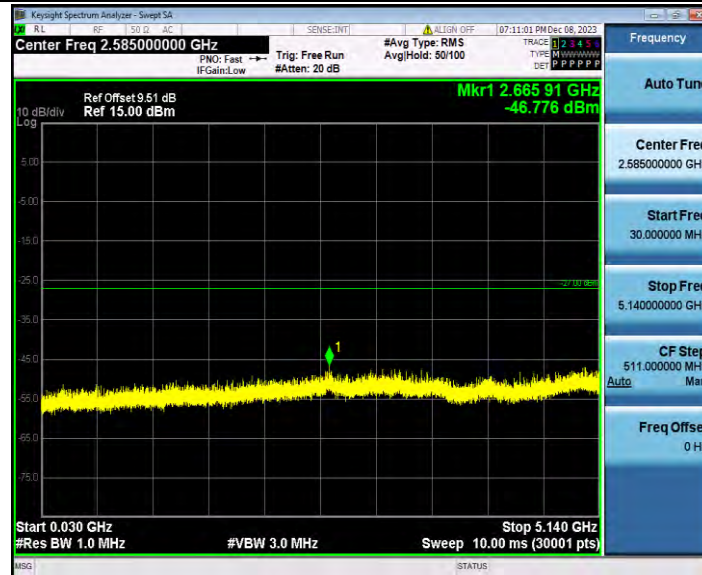
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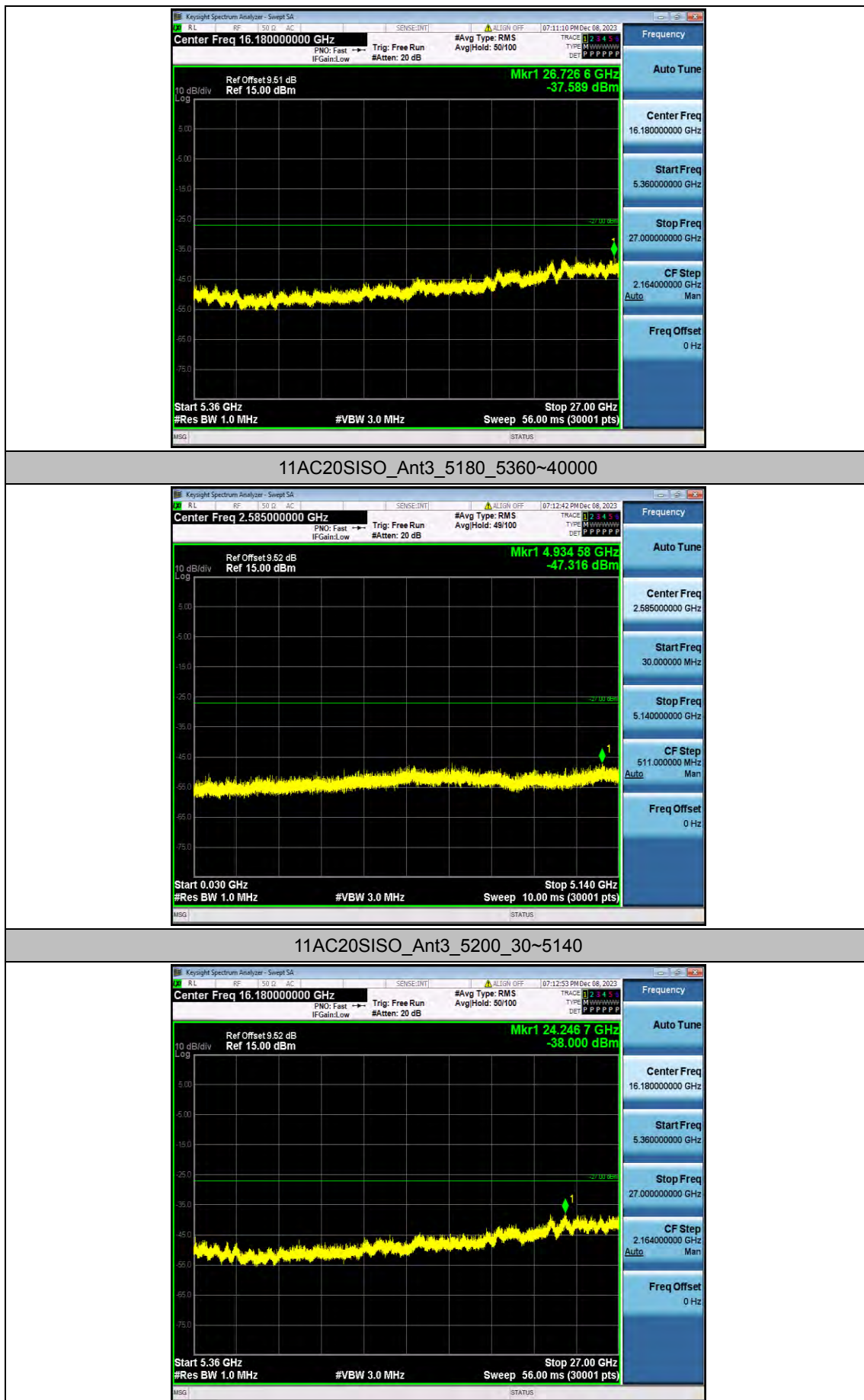
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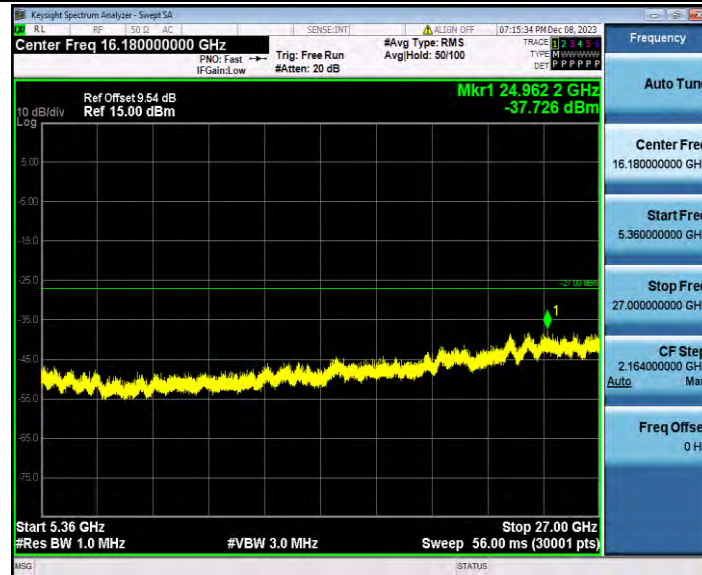
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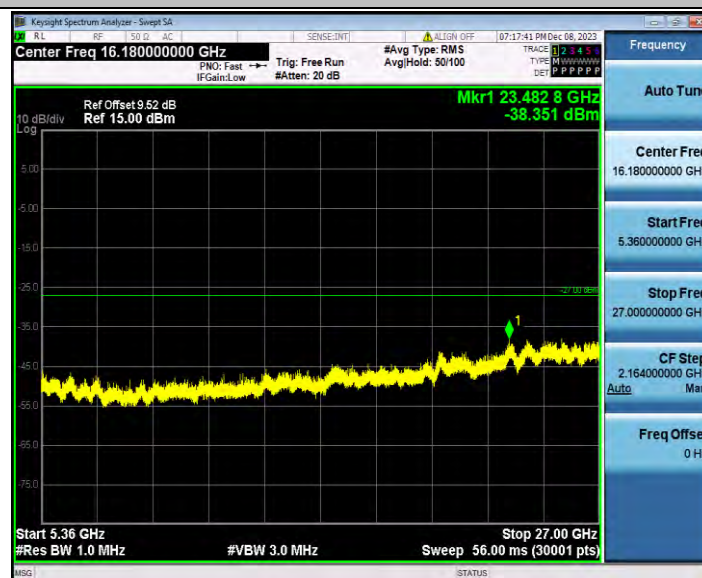
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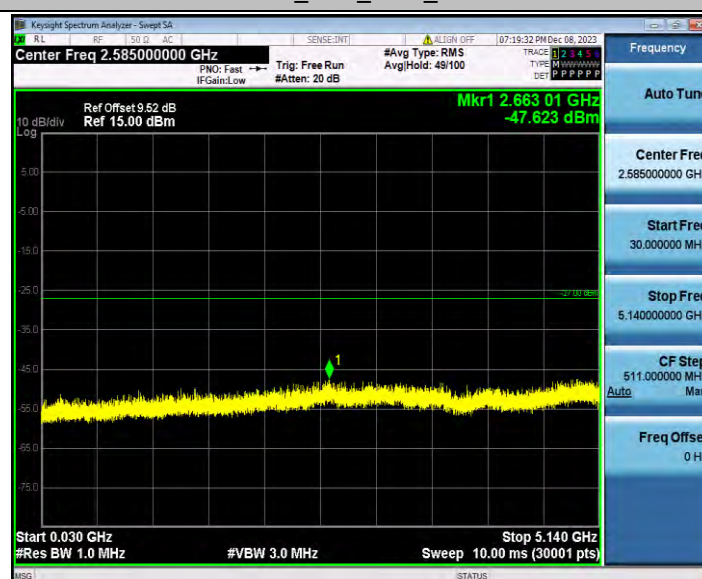
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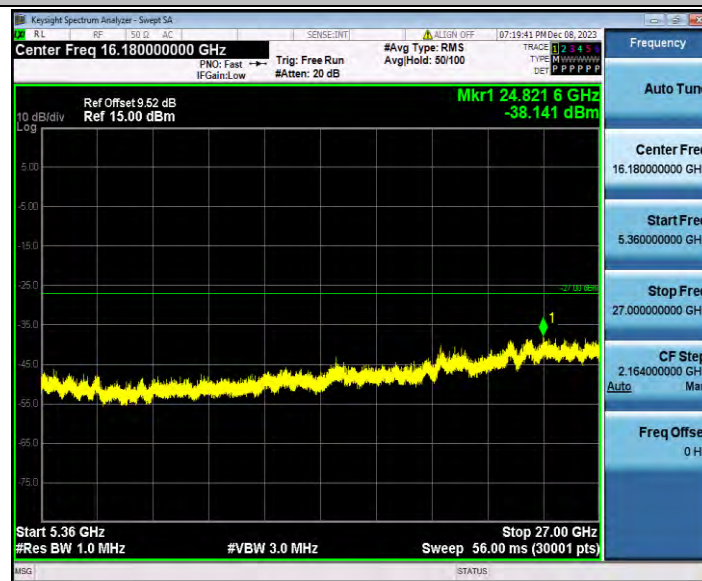
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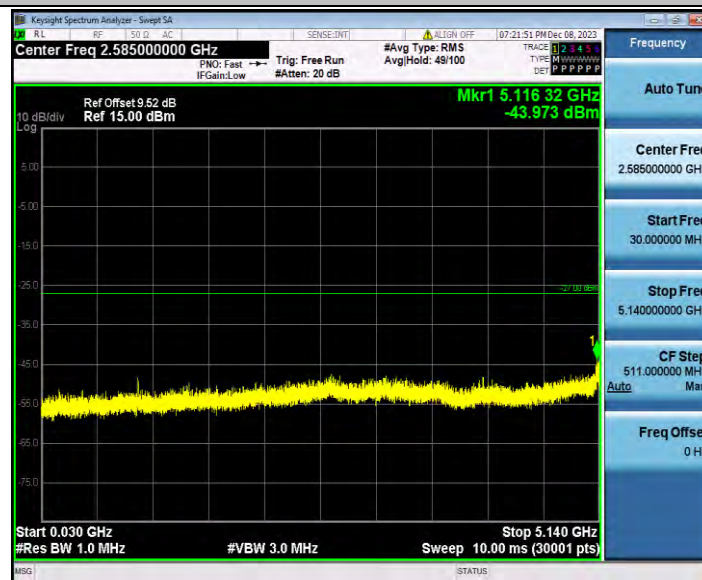
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11AC40SISO_Ant3_5230_30~5140



11AC40SISO_Ant3_5230_5360~40000



11AC80SISO_Ant3_5210_30~5140

