

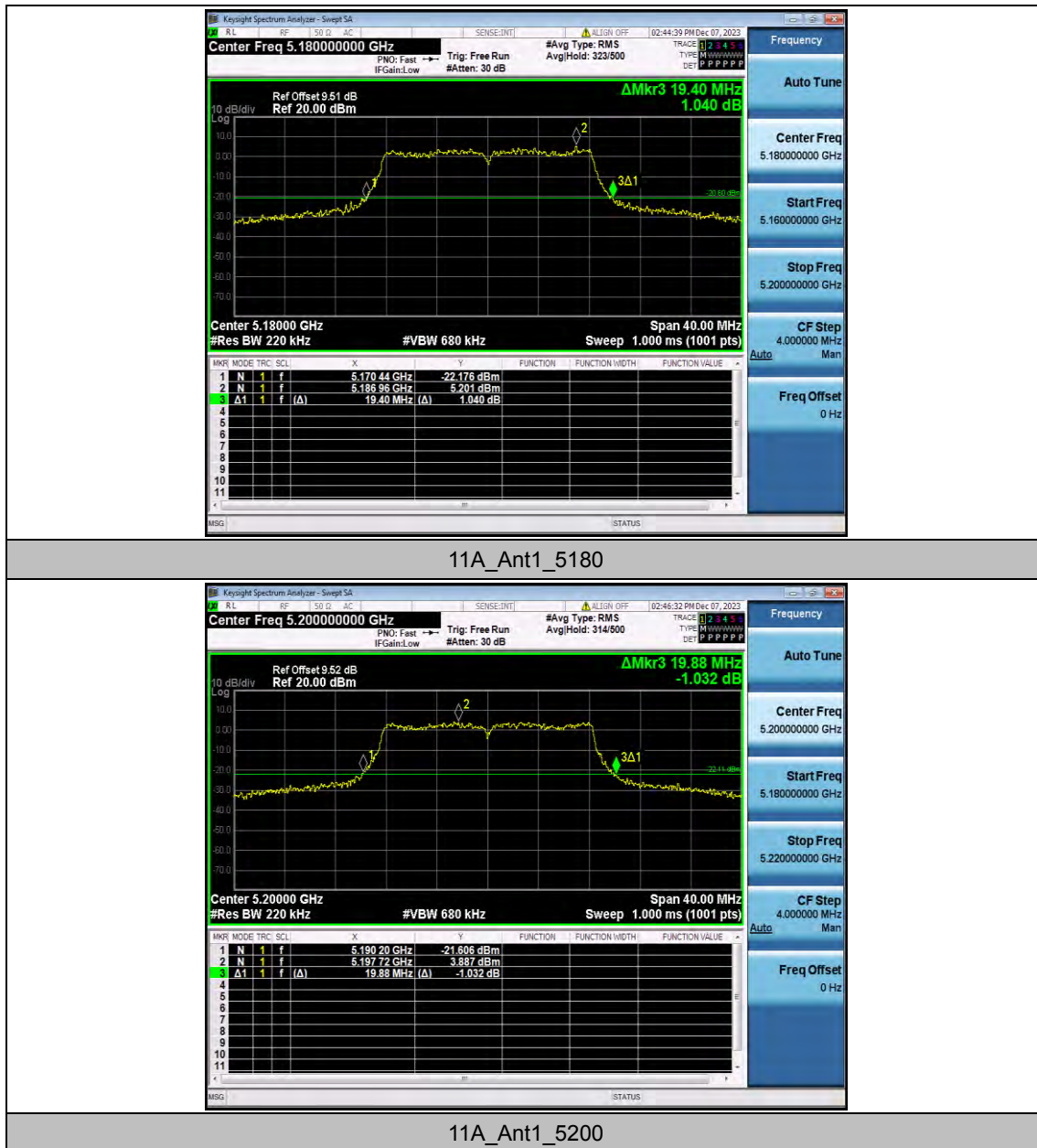
Case No. : <u>GTS20231012003-1-11</u>	
Ambient Condition: <u>24</u> °C, <u>48</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.12.7</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

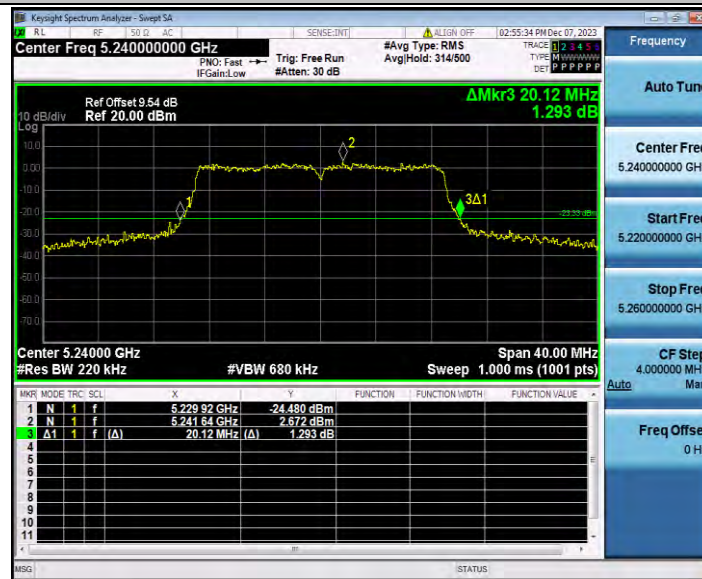
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.400	5170.440	5189.840	---	---
		5200	19.880	5190.200	5210.080	---	---
		5240	19.760	5230.120	5249.880	---	---
11N20SISO	Ant1	5180	20.240	5169.960	5190.200	---	---
		5200	20.160	5189.880	5210.040	---	---
		5240	20.120	5229.920	5250.040	---	---
11N40SISO	Ant1	5190	40.080	5170.080	5210.160	---	---
		5230	39.840	5210.080	5249.920	---	---
11AC20SISO	Ant1	5180	20.120	5170.040	5190.160	---	---
		5200	20.360	5189.720	5210.080	---	---
		5240	20.000	5230.000	5250.000	---	---
11AC40SISO	Ant1	5190	40.400	5170.000	5210.400	---	---
		5230	40.800	5209.600	5250.400	---	---
11AC80SISO	Ant1	5210	81.920	5169.680	5251.600	---	---

Test Graphs

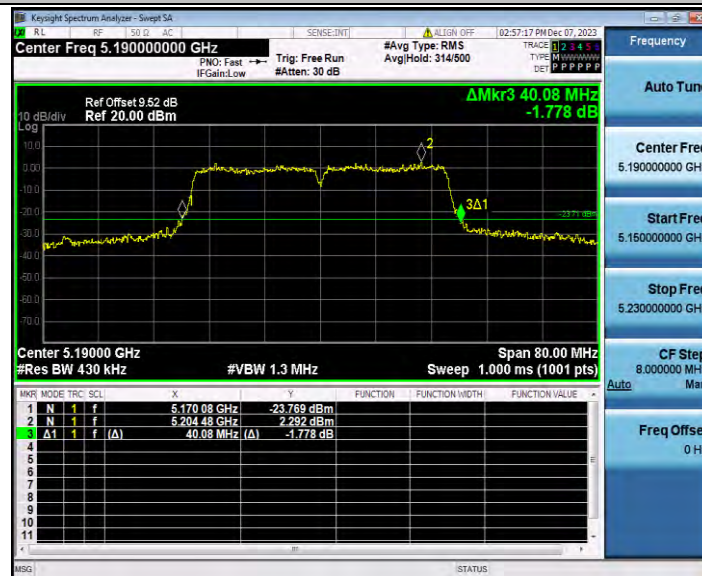




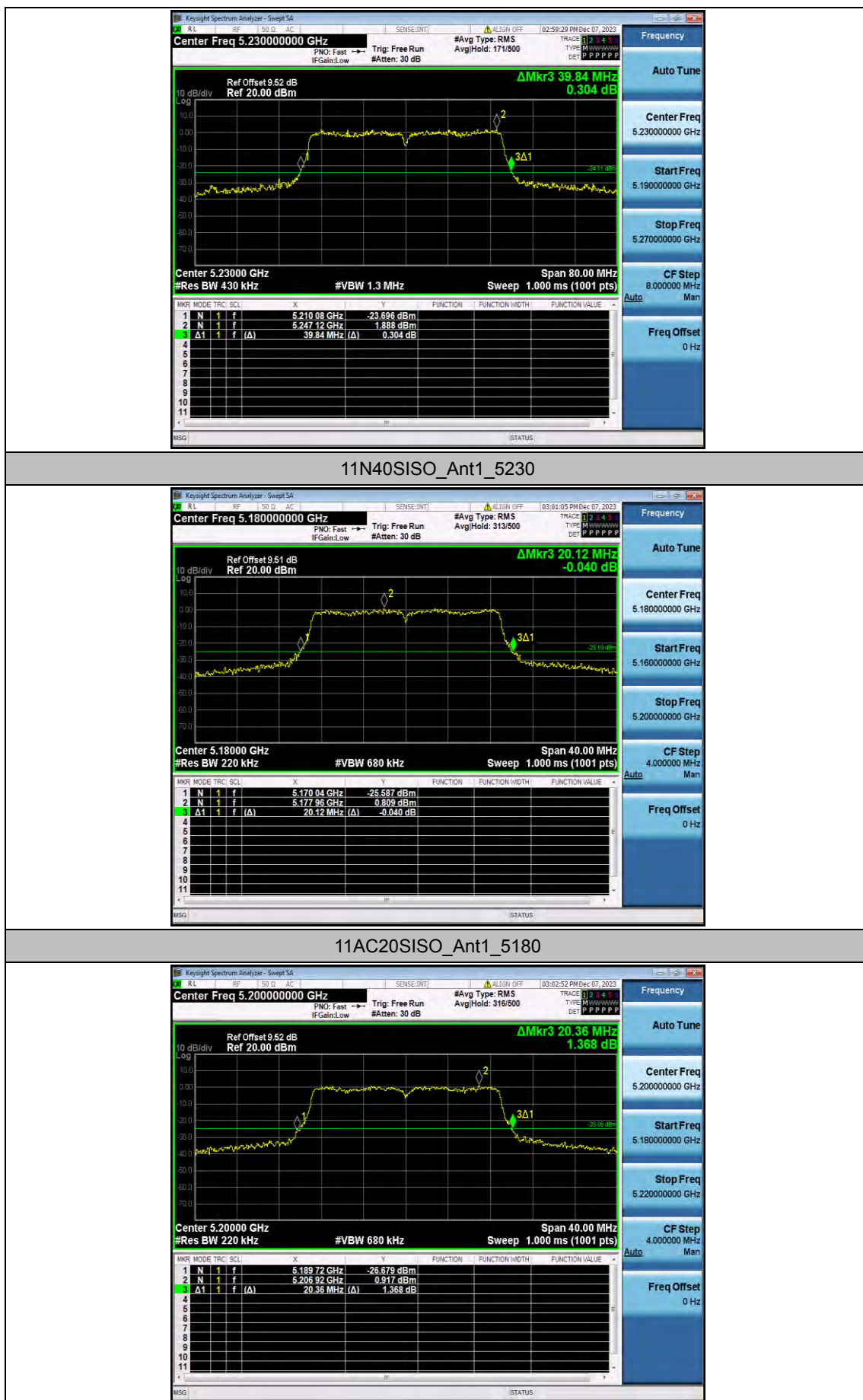
11N20SISO_Ant1_5200



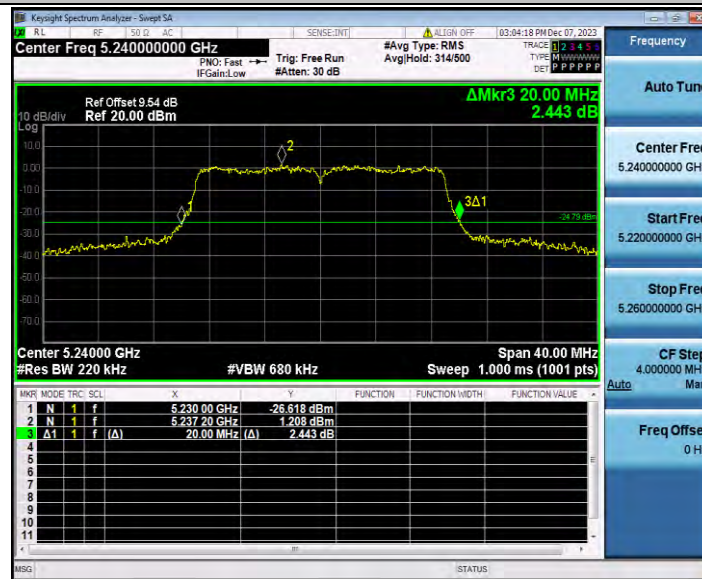
11N20SISO_Ant1_5240



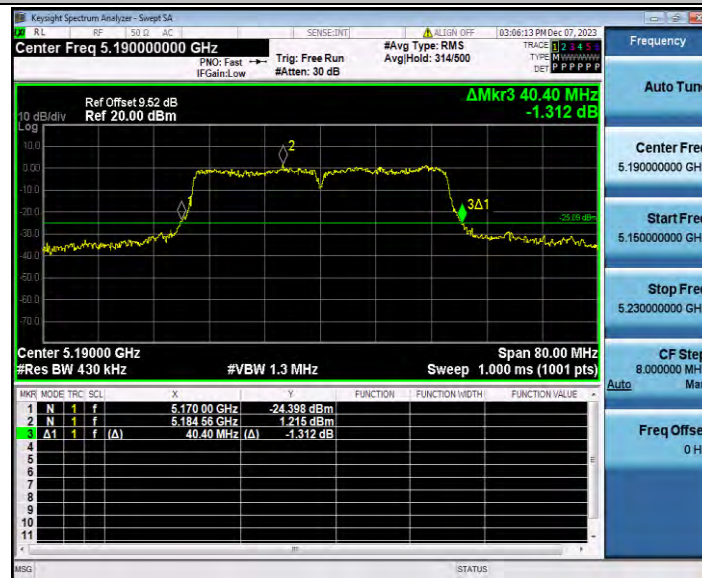
11N40SISO_Ant1_5190



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



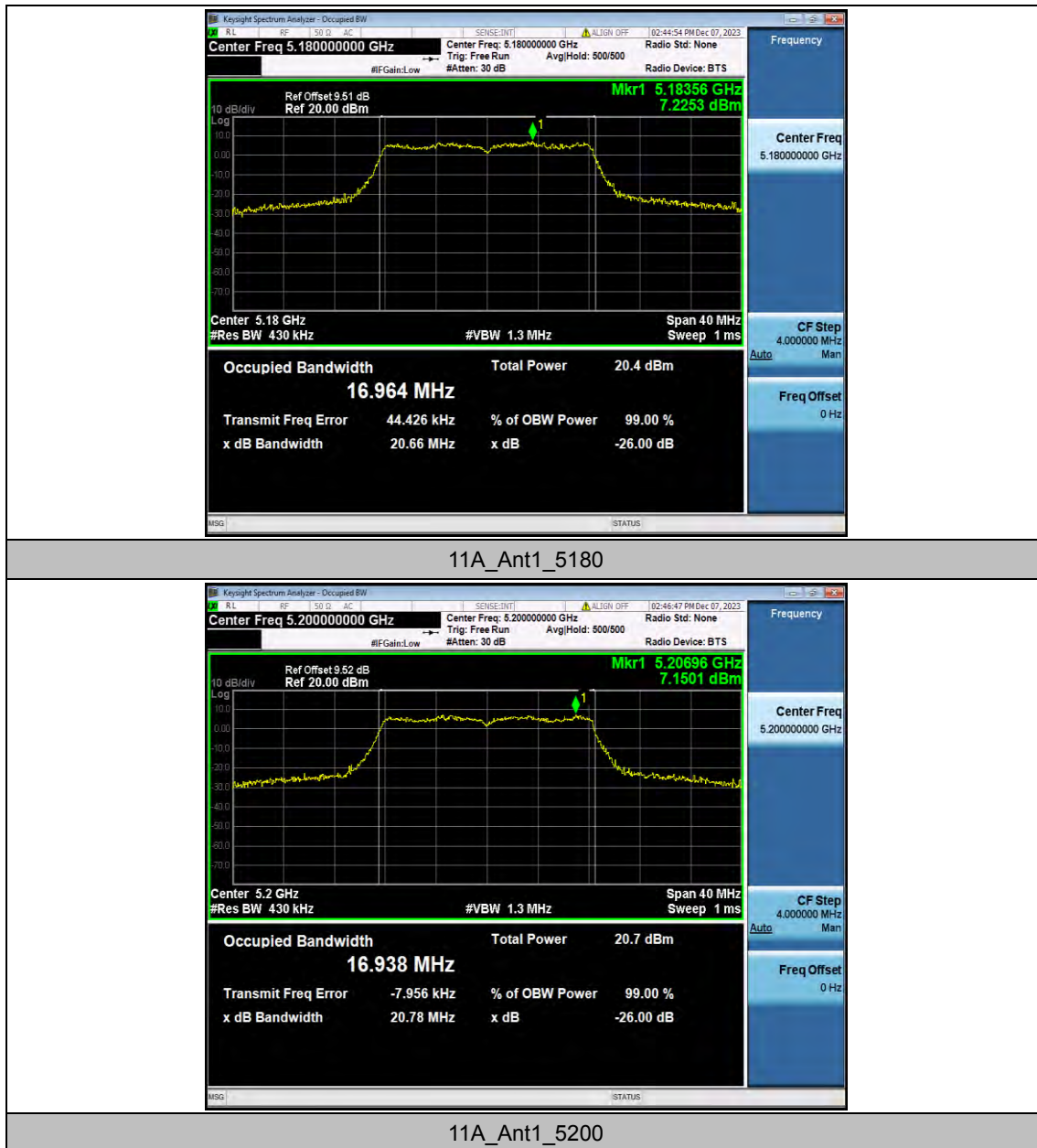
11AC80SISO_Ant1_5210

Appendix D.2: Occupied channel bandwidth

Test Result

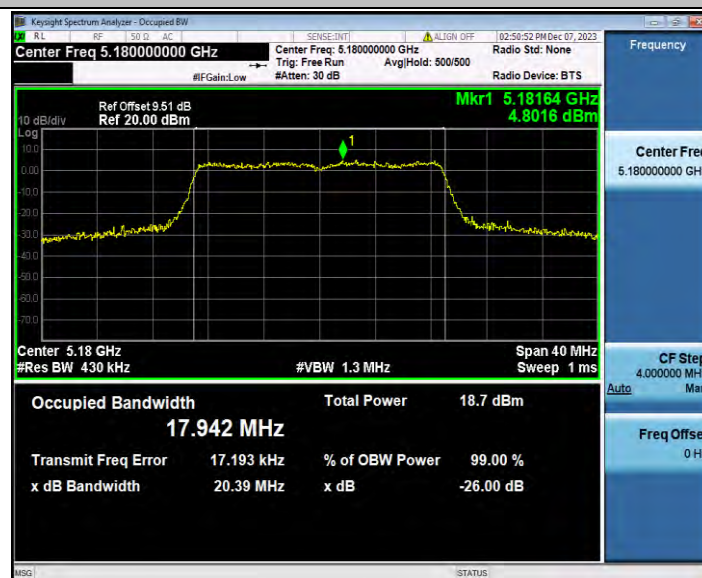
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.964	5171.562	5188.526	---	---
		5200	16.938	5191.523	5208.461	---	---
		5240	16.967	5231.538	5248.505	---	---
11N20SISO	Ant1	5180	17.942	5171.046	5188.988	---	---
		5200	17.925	5191.047	5208.972	---	---
		5240	17.930	5231.043	5248.973	---	---
11N40SISO	Ant1	5190	36.531	5171.816	5208.347	---	---
		5230	36.478	5211.786	5248.264	---	---
11AC20SISO	Ant1	5180	17.916	5171.081	5188.997	---	---
		5200	17.885	5191.091	5208.976	---	---
		5240	17.869	5231.085	5248.954	---	---
11AC40SISO	Ant1	5190	36.520	5171.811	5208.331	---	---
		5230	36.537	5211.765	5248.302	---	---
11AC80SISO	Ant1	5210	76.422	5172.040	5248.462	---	---

Test Graphs

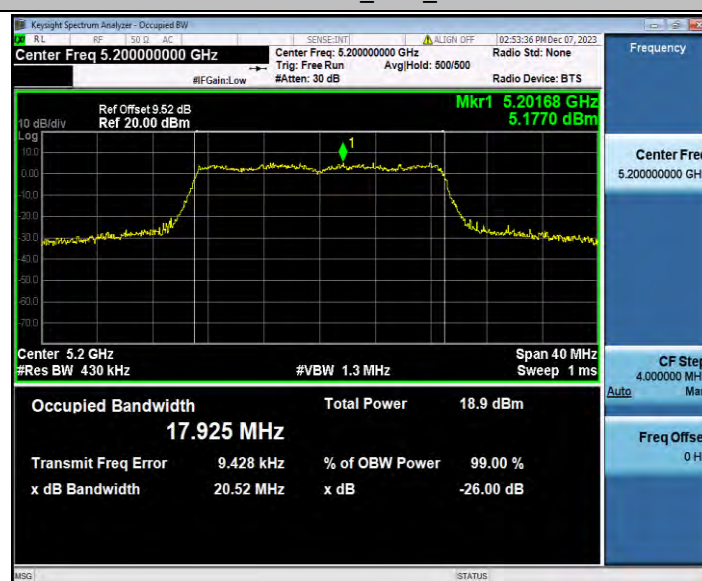




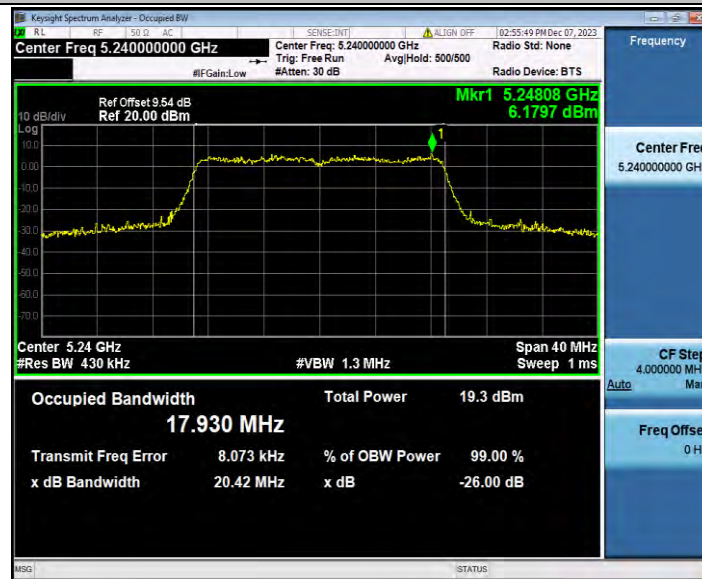
11A_Ant1_5240



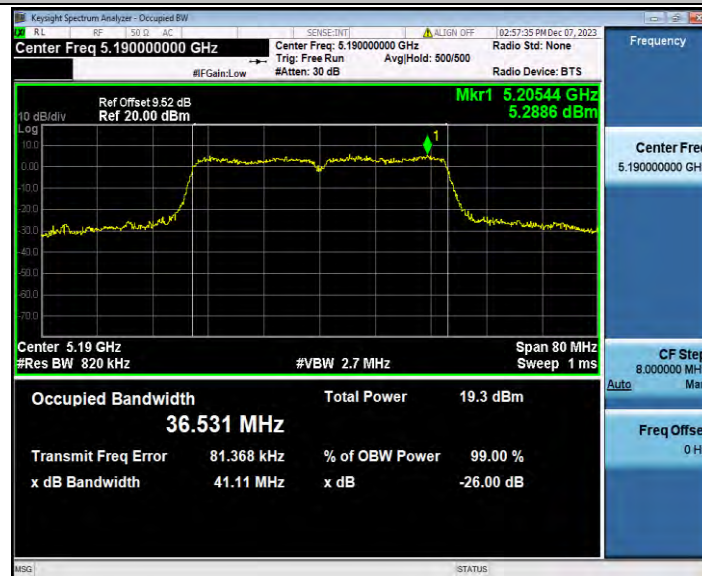
11N20SISO_Ant1_5180



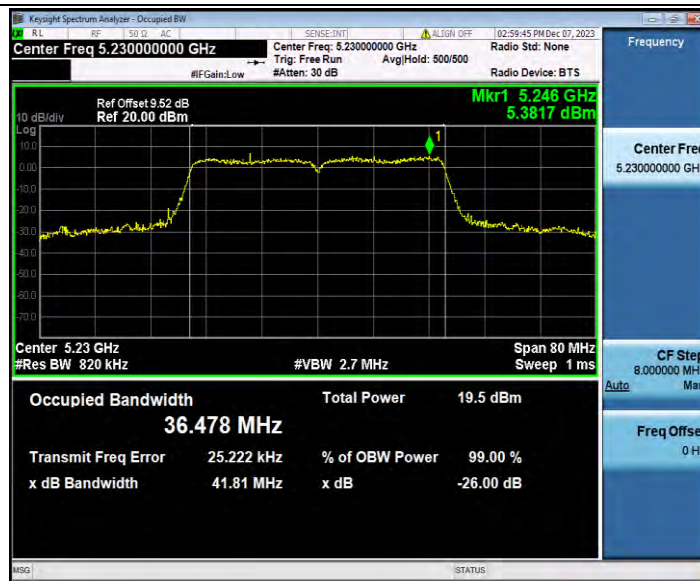
11N20SISO_Ant1_5200



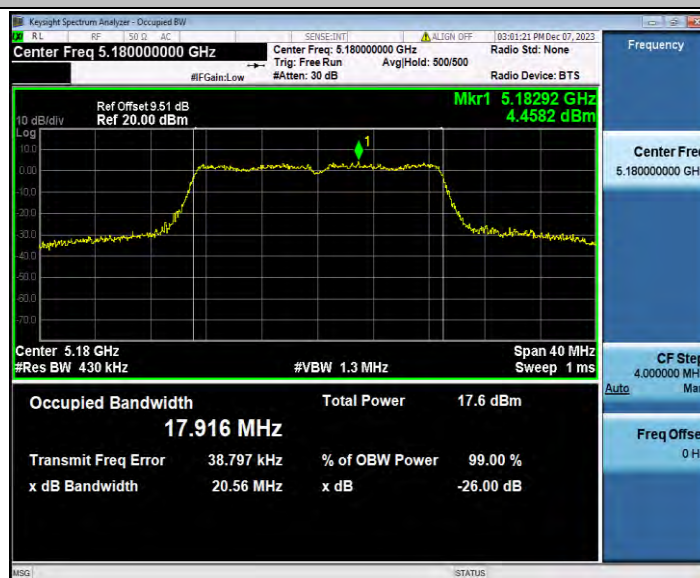
11N20SISO_Ant1_5240



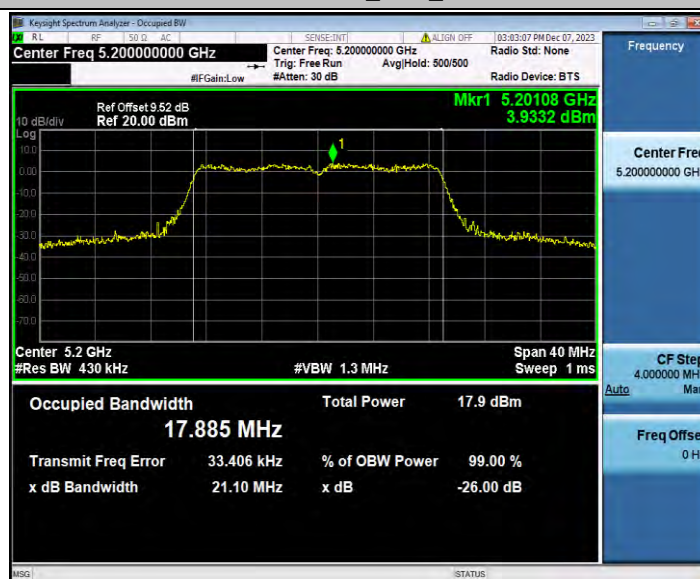
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

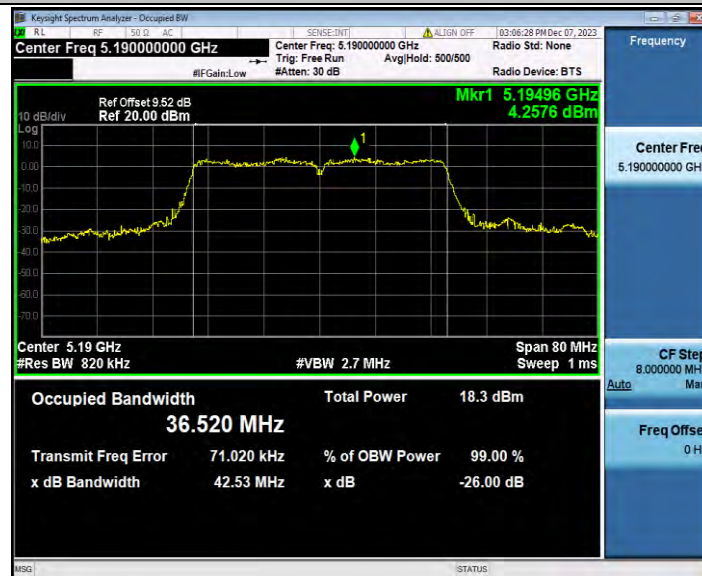


11AC20SISO_Ant1_5180





11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



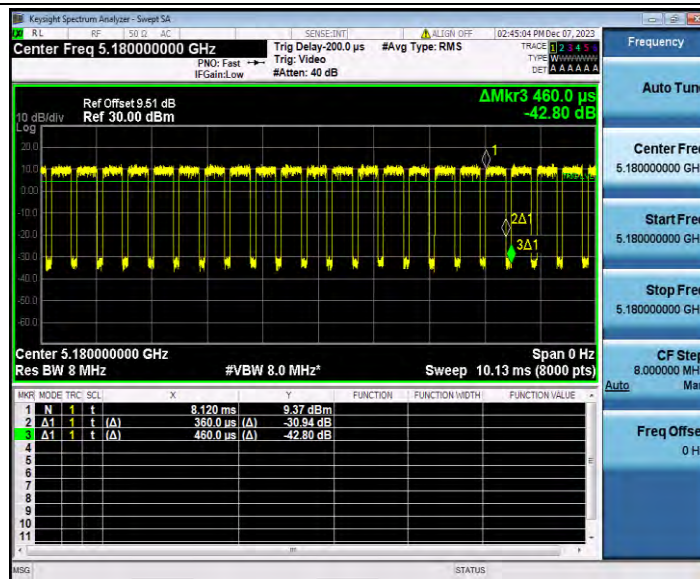
11AC80SISO_Ant1_5210

Appendix D.3: Duty Cycle

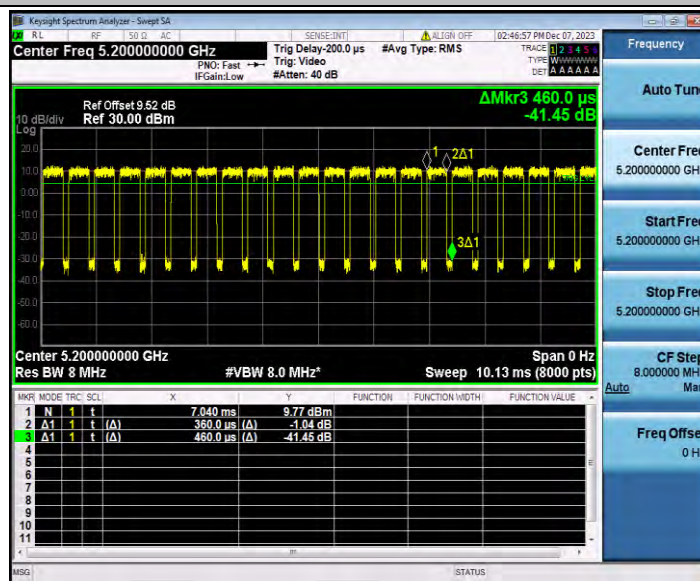
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.36	0.46	78.26
		5200	0.36	0.46	78.26
		5240	0.36	0.46	78.26
11N20SISO	Ant1	5180	0.52	0.62	83.87
		5200	0.51	0.61	83.61
		5240	0.51	0.61	83.61
11N40SISO	Ant1	5190	0.26	0.37	70.27
		5230	0.26	0.37	70.27
11AC20SISO	Ant1	5180	0.43	0.53	81.13
		5200	0.44	0.54	81.48
		5240	0.43	0.53	81.13
11AC40SISO	Ant1	5190	0.21	0.31	67.74
		5230	0.22	0.32	68.75
11AC80SISO	Ant1	5210	0.12	0.22	54.55

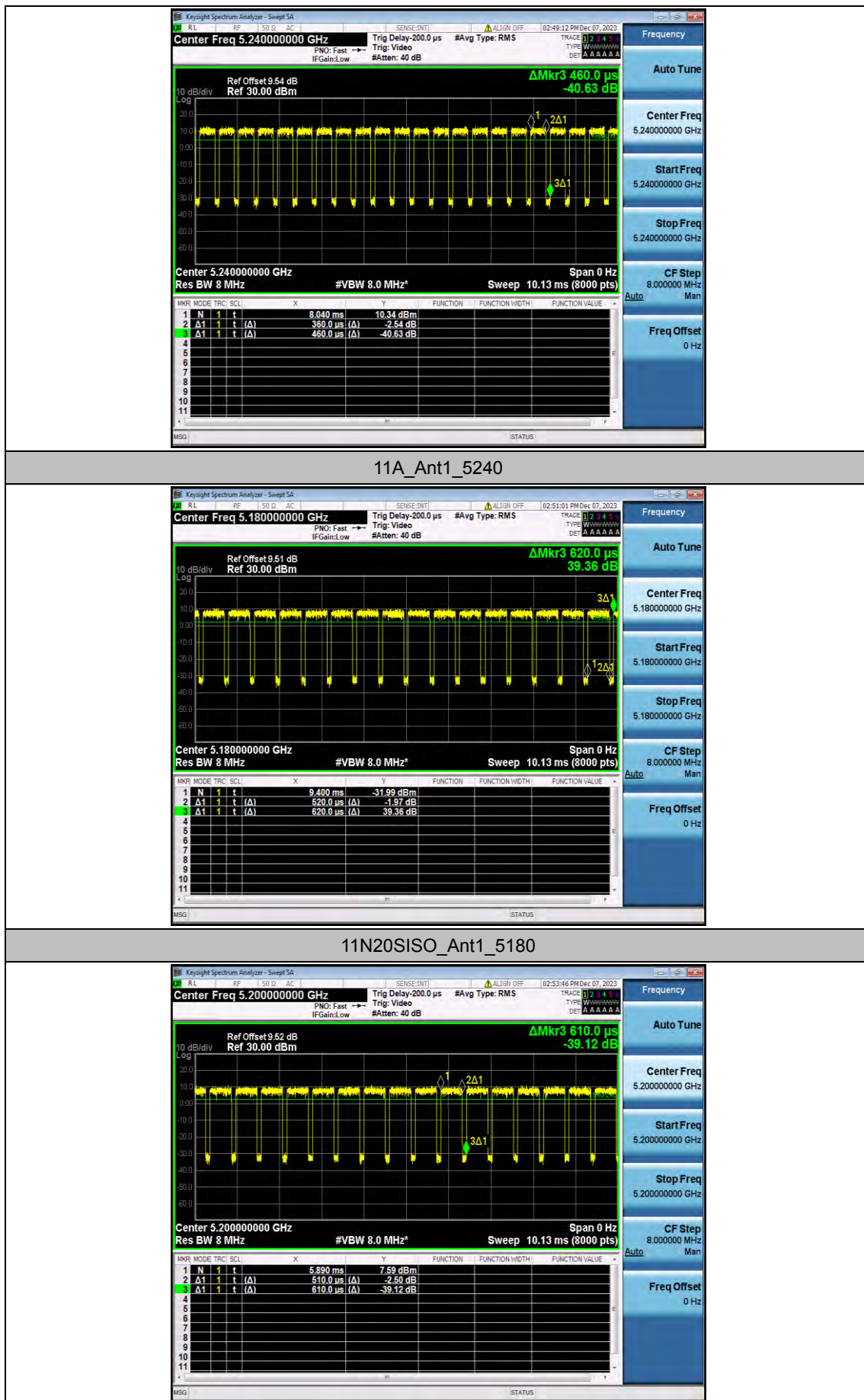
Test Graphs



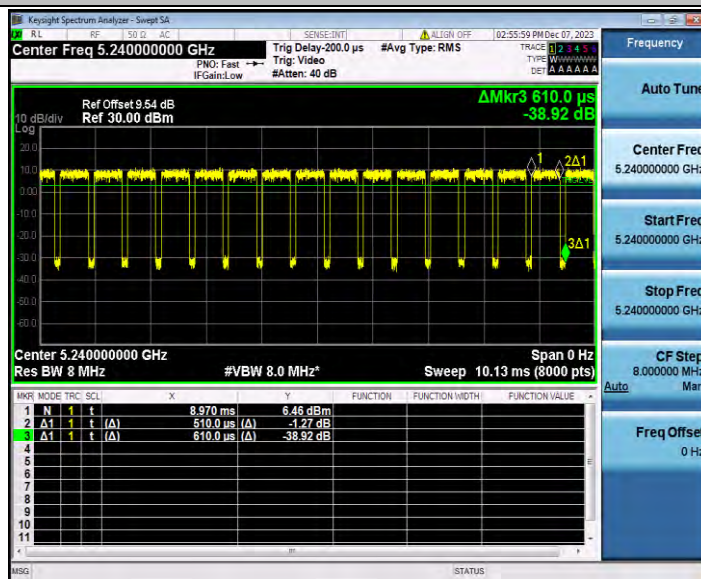
11A_Ant1_5180



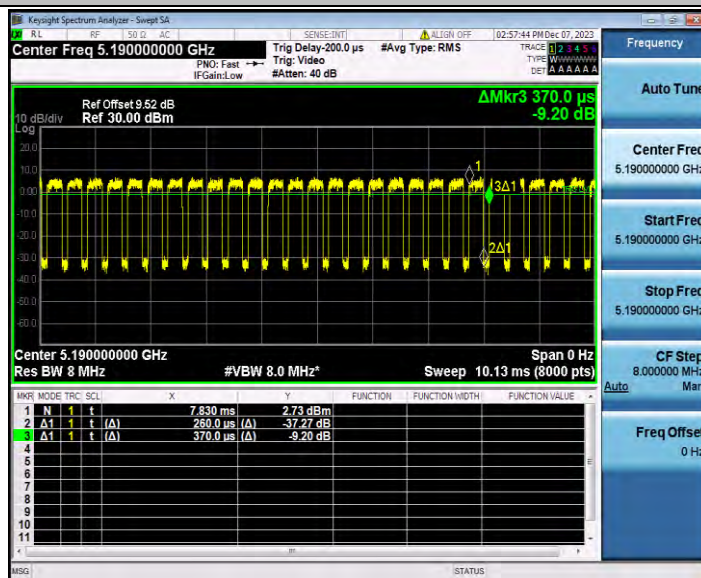
11A_Ant1_5200



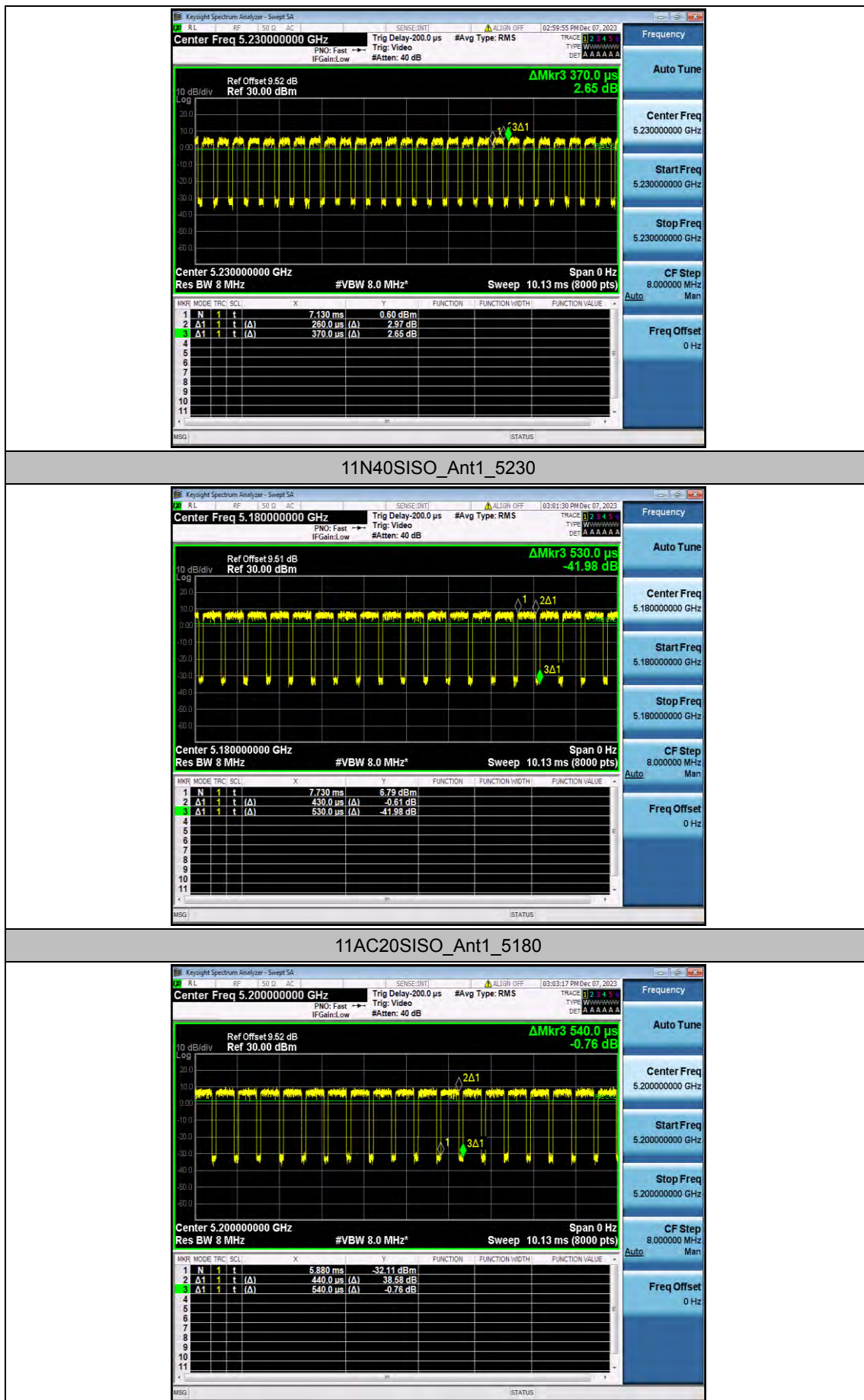
11N20SISO_Ant1_5200



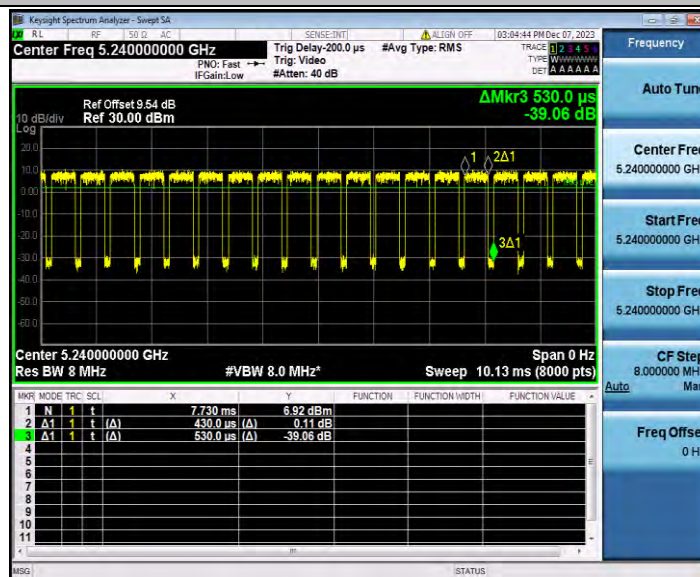
11N20SISO_Ant1_5240



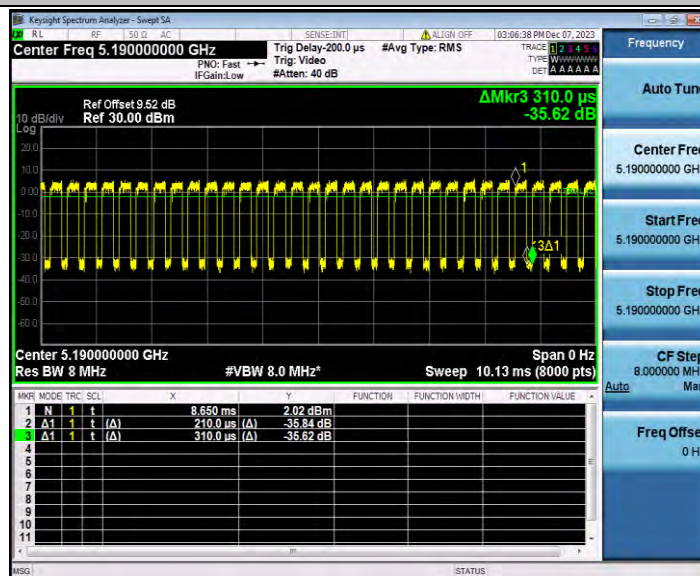
11N40SISO_Ant1_5190



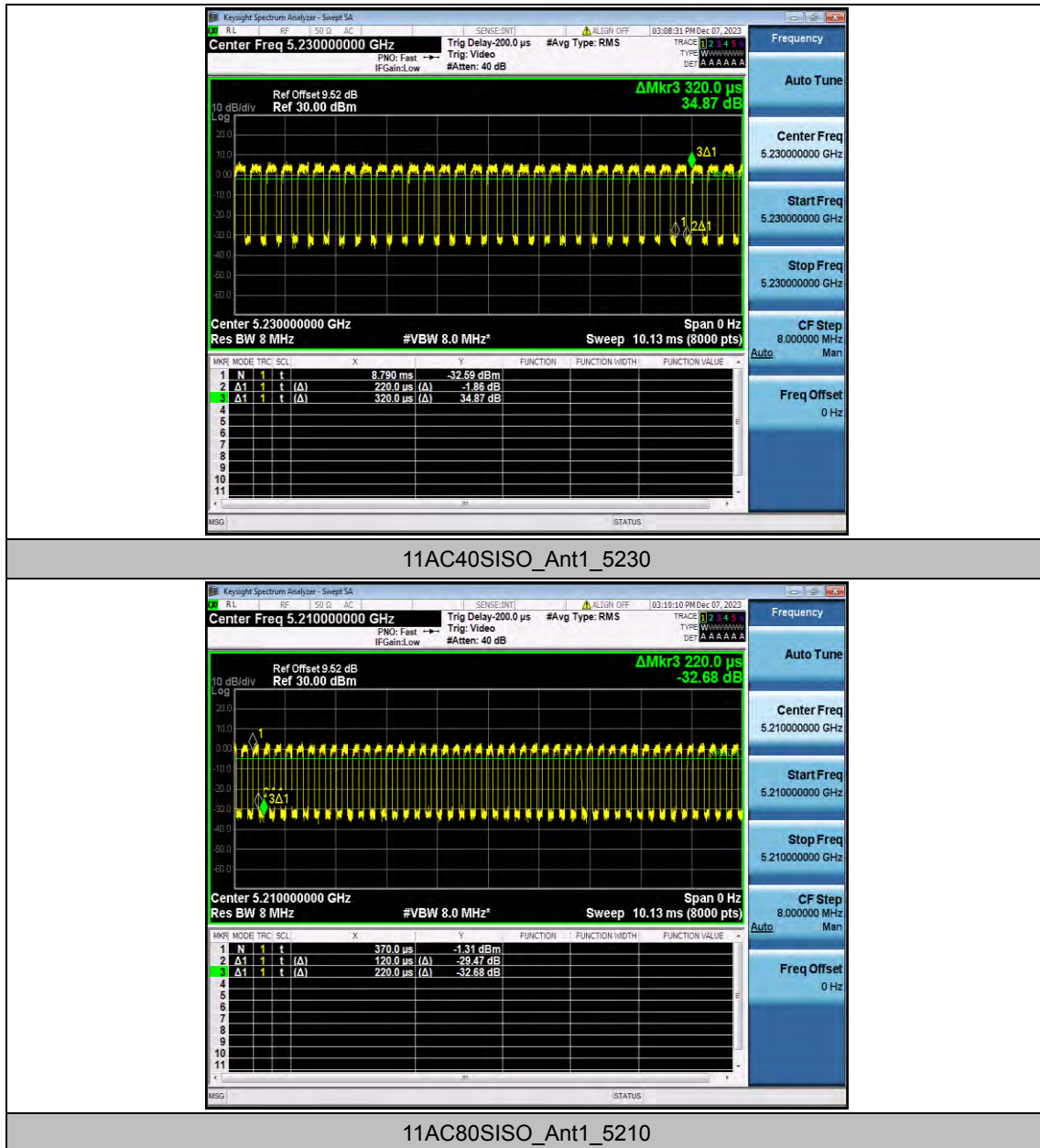
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



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	Ant1	5180	12.04	78.26	1.06	13.10	≤23.98	PASS
		5200	12.26	78.26	1.06	13.32	≤23.98	PASS
		5240	12.54	78.26	1.06	13.60	≤23.98	PASS
11N20SISO	Ant1	5180	10.54	83.87	0.76	11.30	≤23.98	PASS
		5200	10.83	83.61	0.78	11.61	≤23.98	PASS
		5240	11.10	83.61	0.78	11.88	≤23.98	PASS
11N40SISO	Ant1	5190	9.91	70.27	1.53	11.44	≤23.98	PASS
		5230	10.10	70.27	1.53	11.63	≤23.98	PASS
11AC20SISO	Ant1	5180	9.39	81.13	0.91	10.30	≤23.98	PASS
		5200	9.63	81.48	0.89	10.52	≤23.98	PASS
		5240	9.99	81.13	0.91	10.90	≤23.98	PASS
11AC40SISO	Ant1	5190	8.67	67.74	1.69	10.36	≤23.98	PASS
		5230	8.80	68.75	1.63	10.43	≤23.98	PASS
11AC80SISO	Ant1	5210	8.54	54.55	2.63	11.17	≤23.98	PASS

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

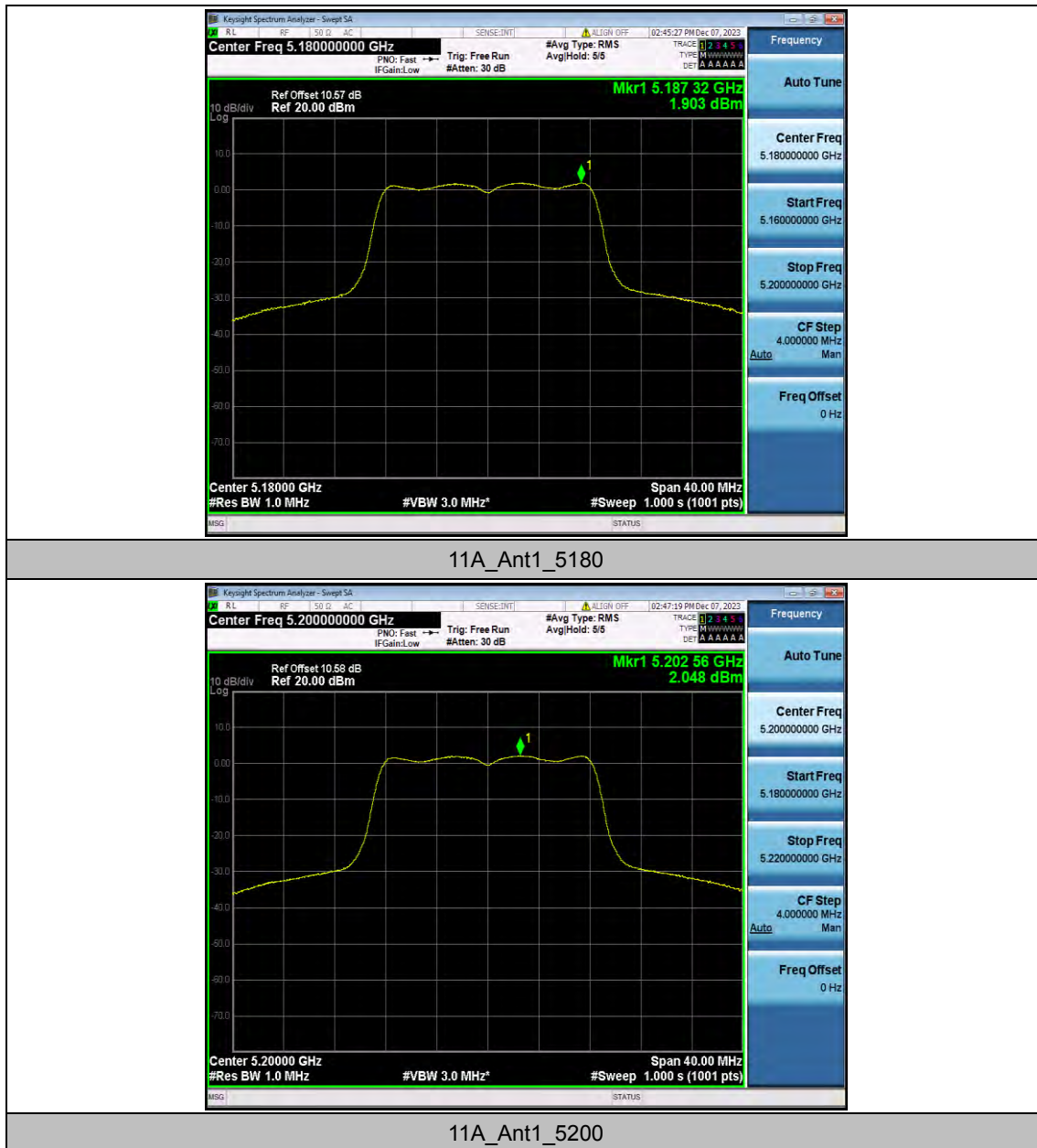
Appendix D.5: Maximum power spectral density

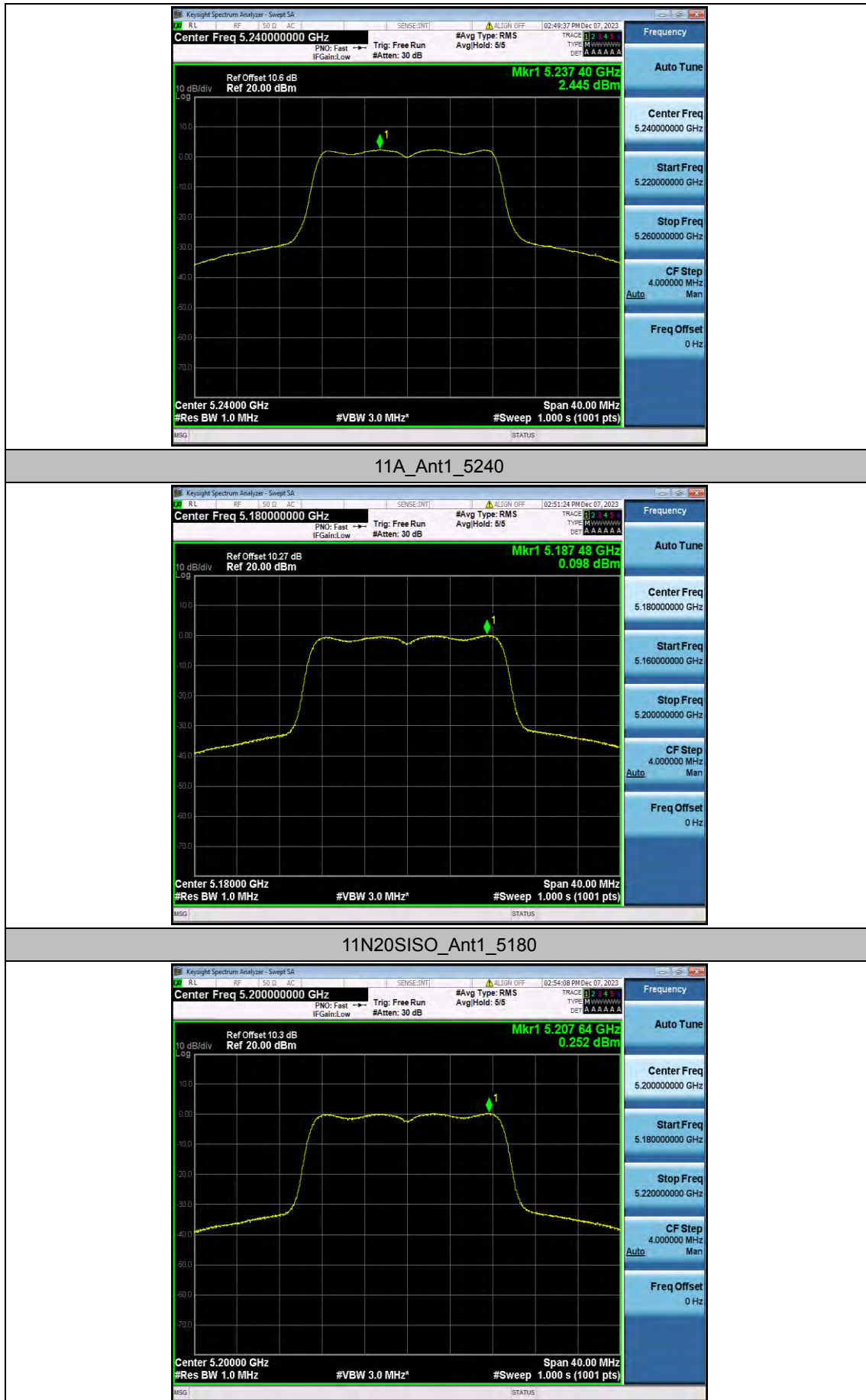
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.9	≤11.00	PASS
		5200	2.05	≤11.00	PASS
		5240	2.45	≤11.00	PASS
11N20SISO	Ant1	5180	0.1	≤11.00	PASS
		5200	0.25	≤11.00	PASS
		5240	0.65	≤11.00	PASS
11N40SISO	Ant1	5190	-2.16	≤11.00	PASS
		5230	-2.01	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.97	≤11.00	PASS
		5200	-0.81	≤11.00	PASS
		5240	-0.4	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.22	≤11.00	PASS
		5230	-3.4	≤11.00	PASS
11AC80SISO	Ant1	5210	-5.52	≤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_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



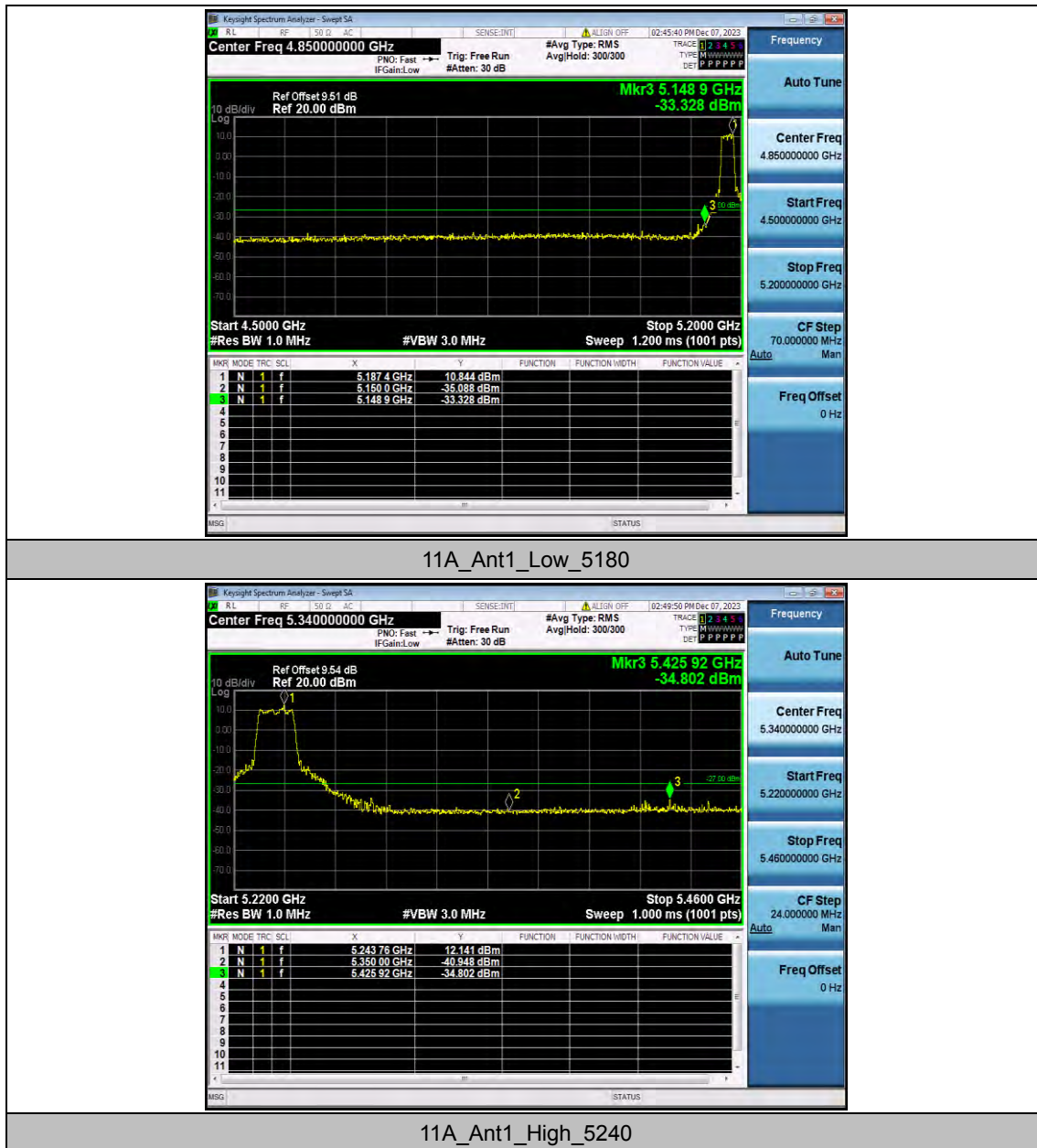
11AC80SISO_Ant1_5210

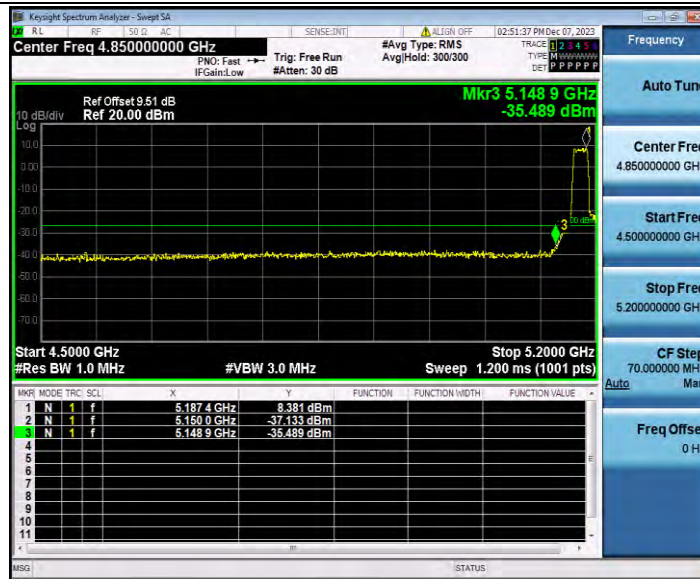
Appendix D.6: Band edge measurements

Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-33.33	≤ -27	PASS
		High	5240	-34.8	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-35.49	≤ -27	PASS
		High	5240	-37.29	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-30.35	≤ -27	PASS
		High	5230	-37.04	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-37.67	≤ -27	PASS
		High	5240	-37.44	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-31.76	≤ -27	PASS
		High	5230	-35.11	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-28.48	≤ -27	PASS
		High	5210	-30.61	≤ -27	PASS

Test Graphs B1

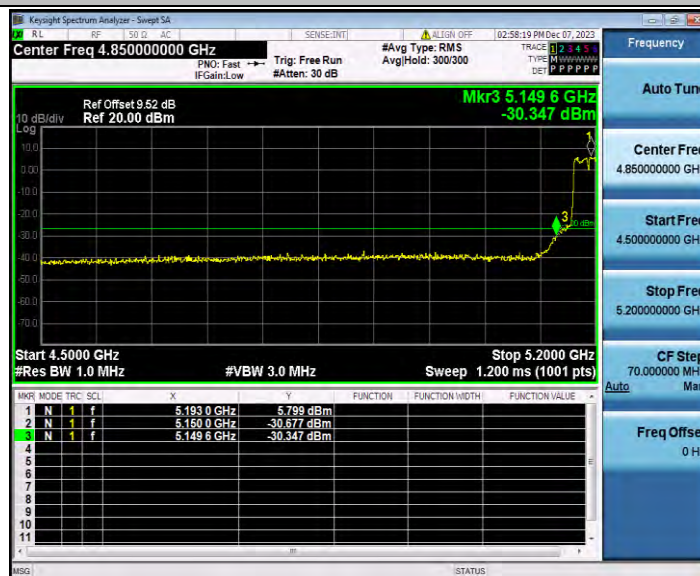




11N20SISO_Ant1_Low_5180



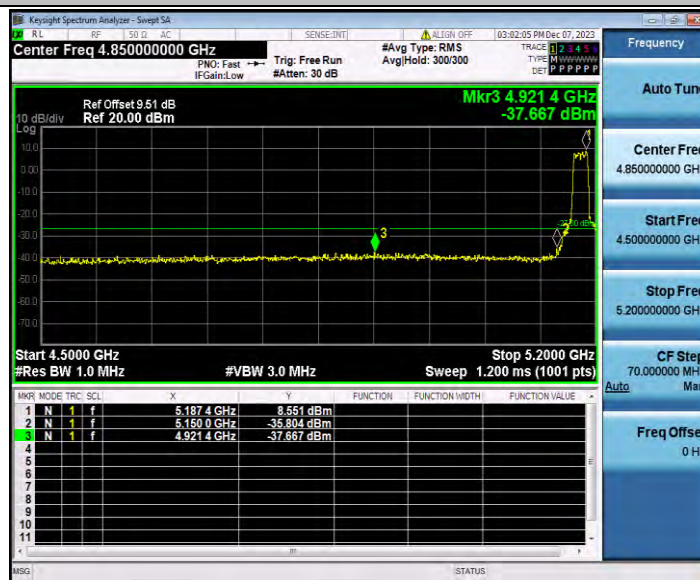
11N20SISO_Ant1_High_5240



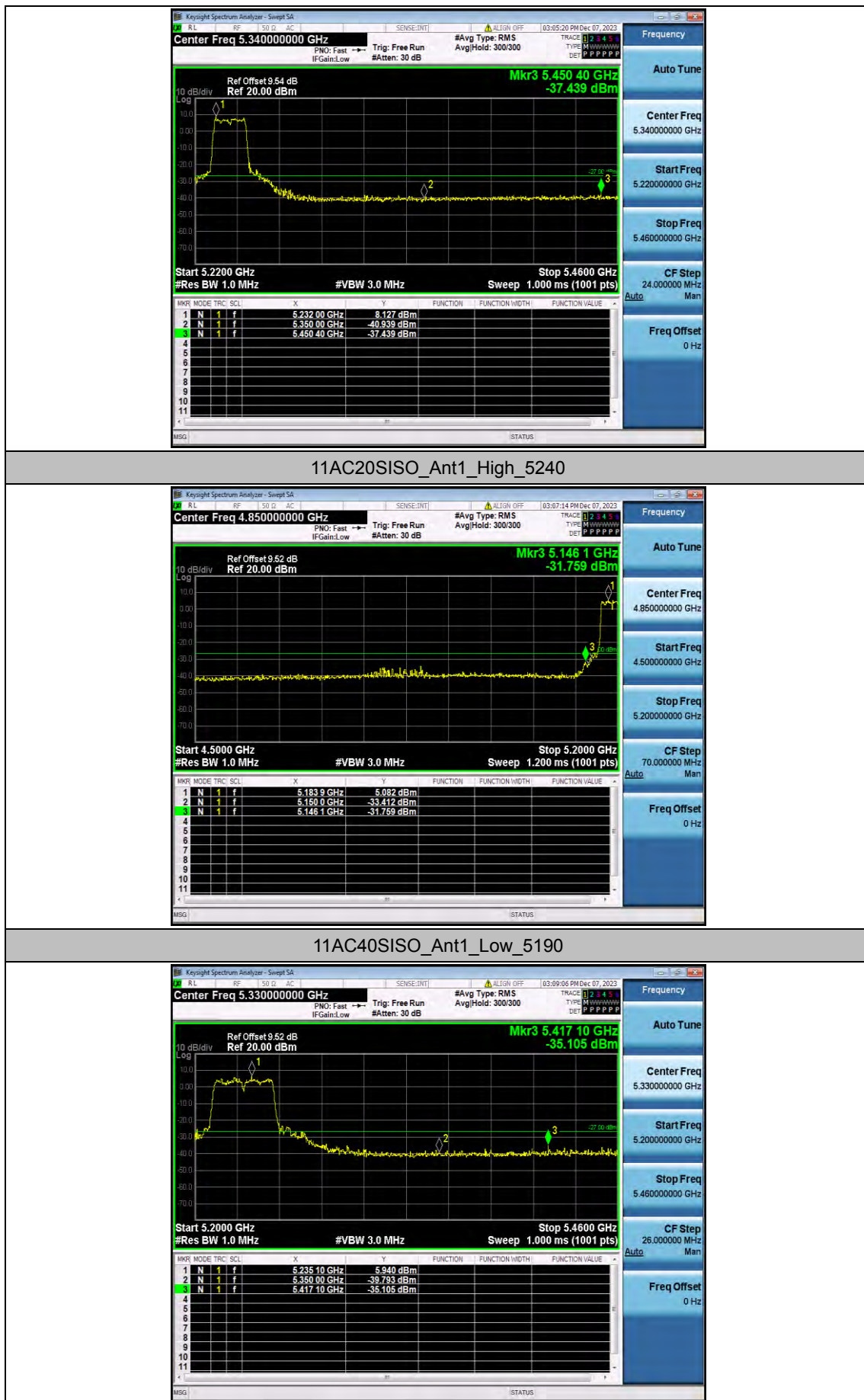
11N40SISO_Ant1_Low_5190



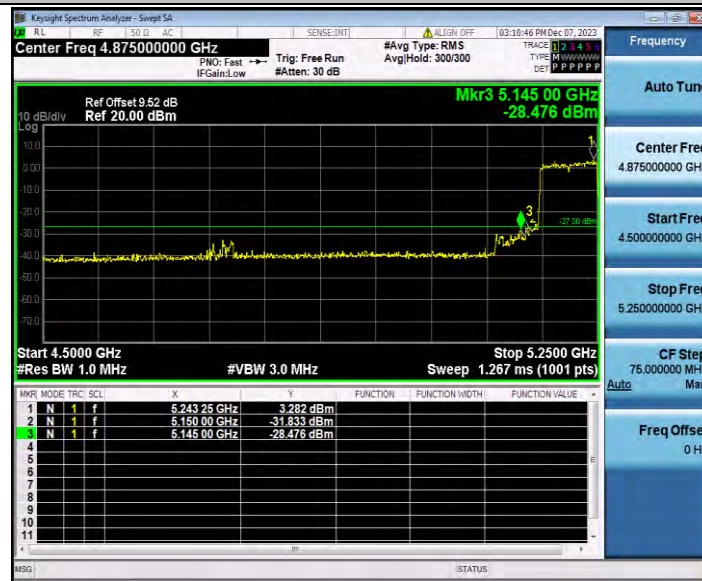
11N40SISO_Ant1_High_5230



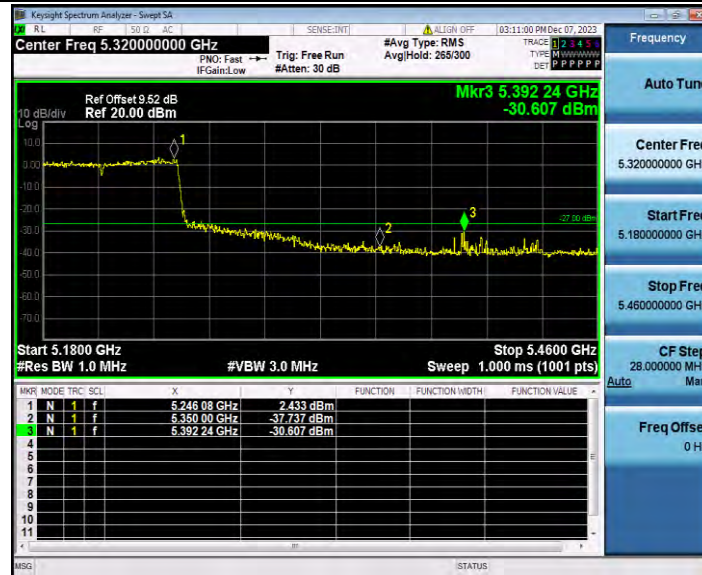
11AC20SISO_Ant1_Low_5180



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



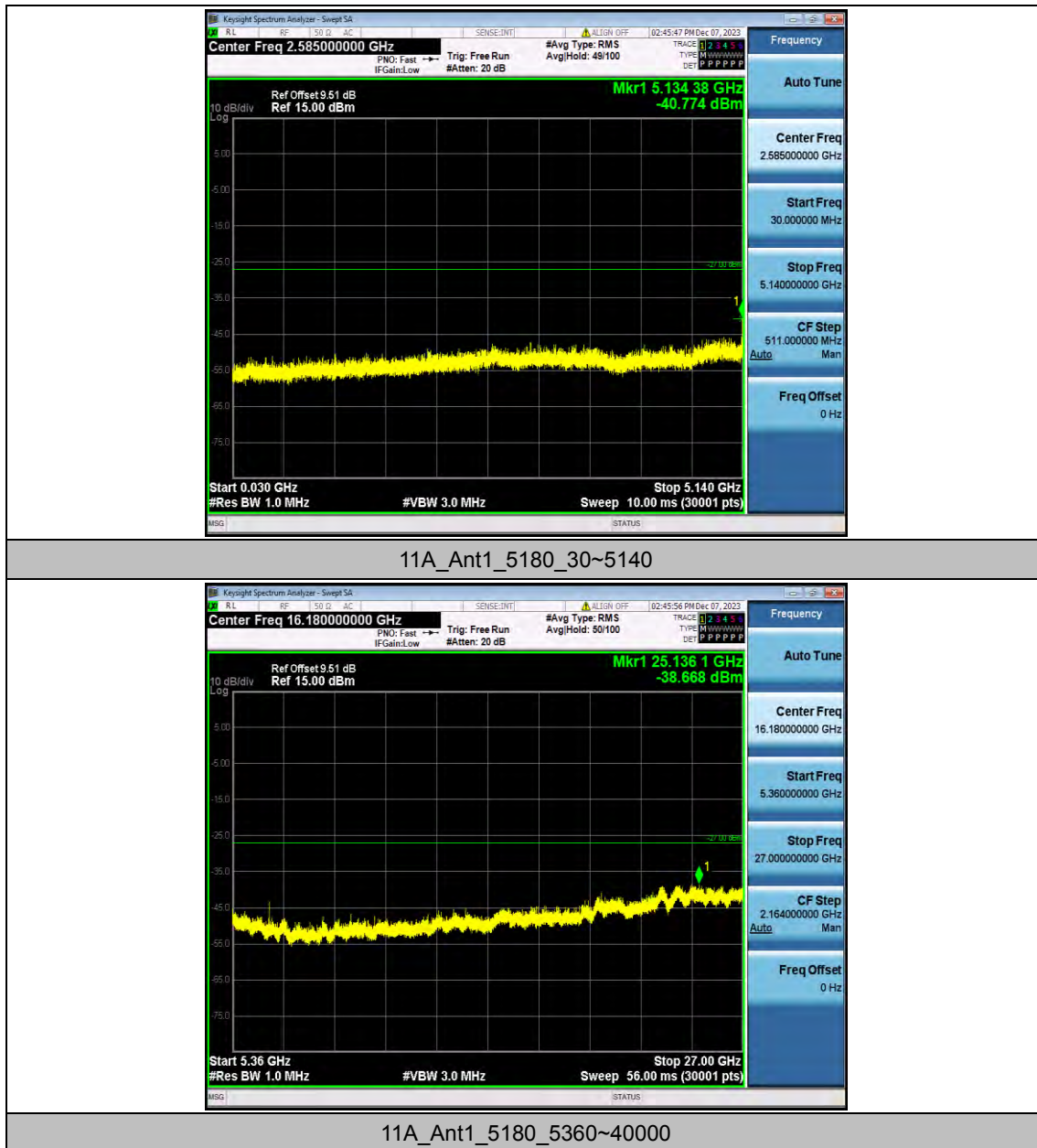
11AC80SISO_Ant1_High_5210

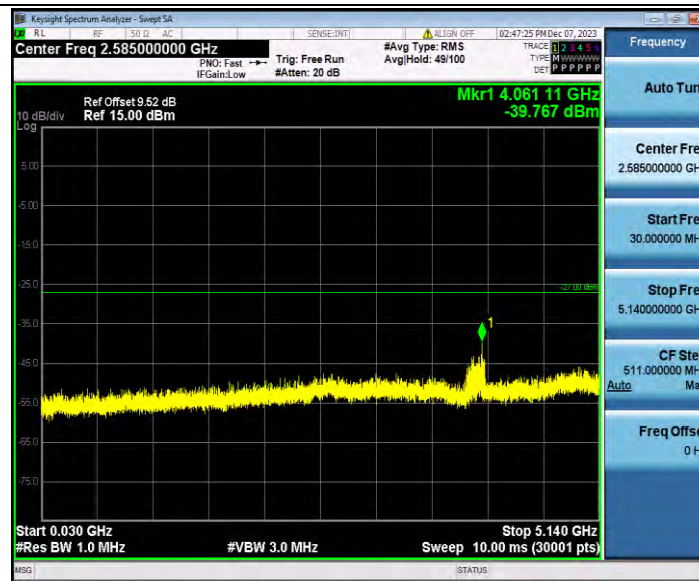
Appendix D.7: Conducted Spurious Emission

Test Result

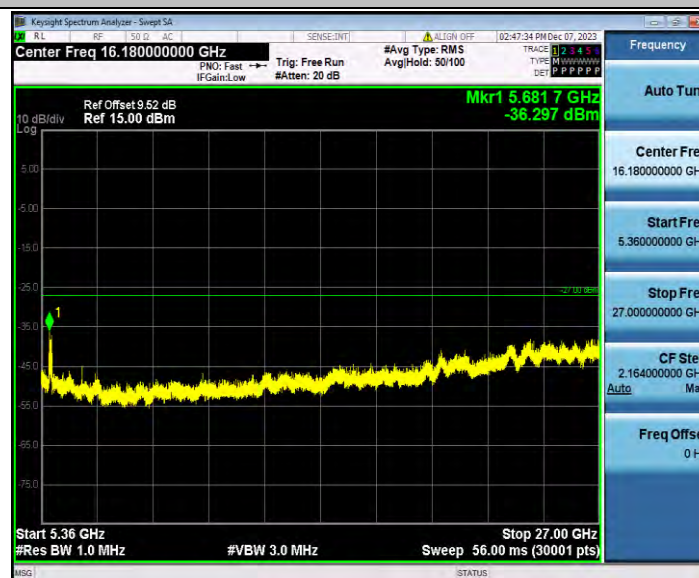
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5134.38	-40.77	≤-27	PASS
			5360~40000	25136.07	-38.67	≤-27	PASS
		5200	30~5140	4061.11	-39.77	≤-27	PASS
			5360~40000	5681.71	-36.3	≤-27	PASS
		5240	30~5140	4577.05	-36.62	≤-27	PASS
			5360~40000	24289.23	-37.91	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	4945.82	-45.05	≤-27	PASS
			5360~40000	25192.34	-37.72	≤-27	PASS
		5200	30~5140	4946.67	-46.61	≤-27	PASS
			5360~40000	26572.25	-37.95	≤-27	PASS
		5240	30~5140	4302.3	-41.66	≤-27	PASS
			5360~40000	26045.68	-37.98	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5138.3	-40.44	≤-27	PASS
			5360~40000	26619.14	-37.6	≤-27	PASS
		5230	30~5140	4298.38	-41.24	≤-27	PASS
			5360~40000	24735.73	-37.99	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5135.06	-43.16	≤-27	PASS
			5360~40000	26472.71	-37.45	≤-27	PASS
		5200	30~5140	3949.37	-44.41	≤-27	PASS
			5360~40000	24176.7	-37.54	≤-27	PASS
		5240	30~5140	4914.14	-46.89	≤-27	PASS
			5360~40000	25001.19	-37.95	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	4390.02	-35.29	≤-27	PASS
			5360~40000	24277.69	-38.04	≤-27	PASS
		5230	30~5140	3961.8	-42.08	≤-27	PASS
			5360~40000	26735.27	-38.19	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5133.19	-31.5	≤-27	PASS
			5360~40000	24782.62	-38.14	≤-27	PASS

Test Graphs

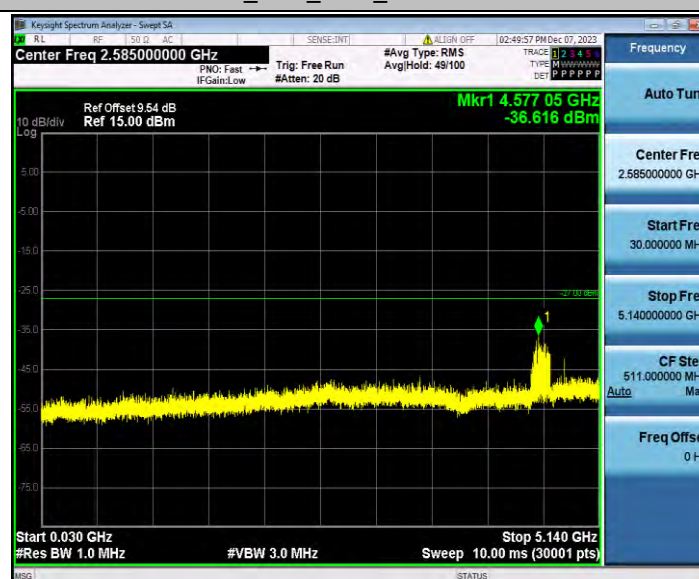




11A_Ant1_5200_30~5140



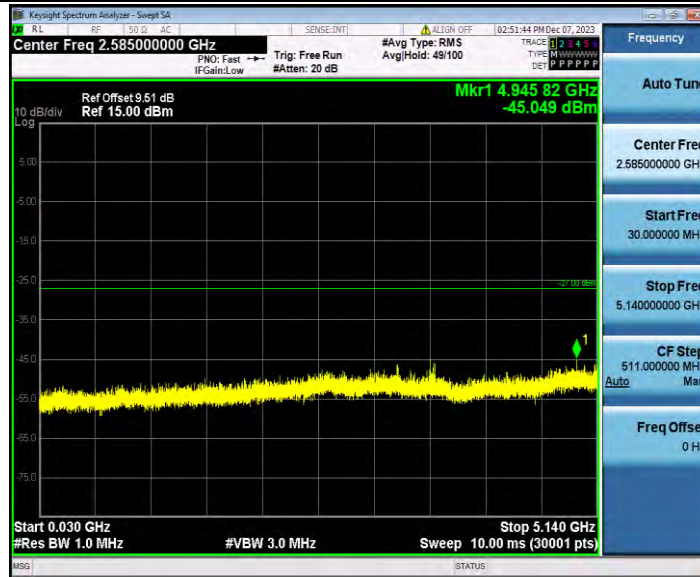
11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140



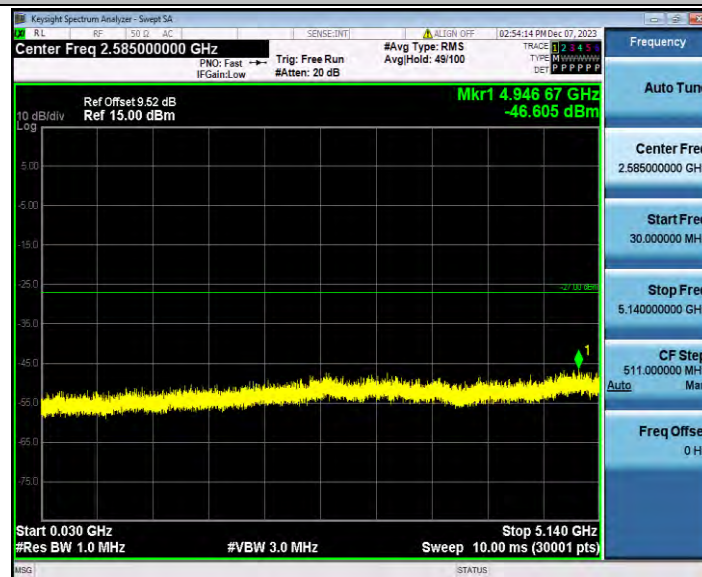
11A_Ant1_5240_5360~40000



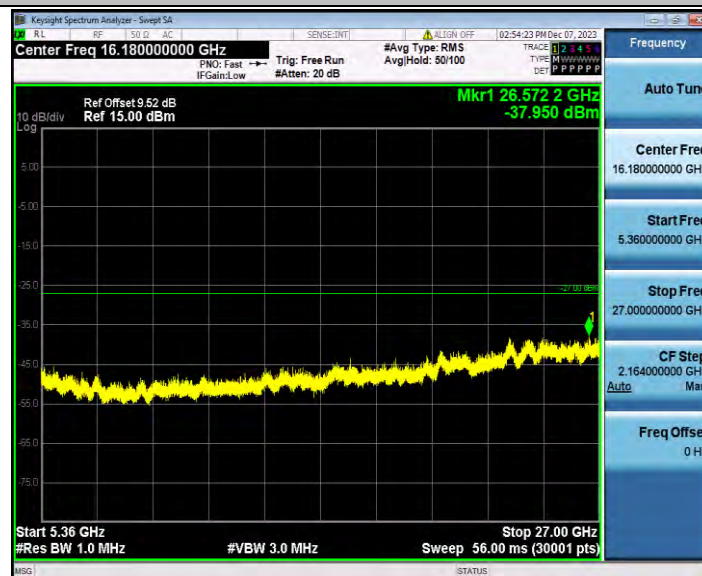
11N20SISO_Ant1_5180_30~5140



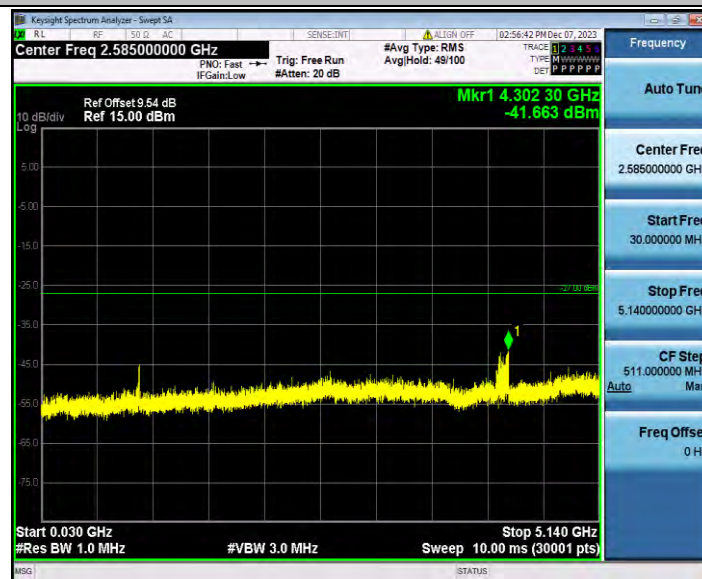
11N20SISO_Ant1_5180_5360~40000



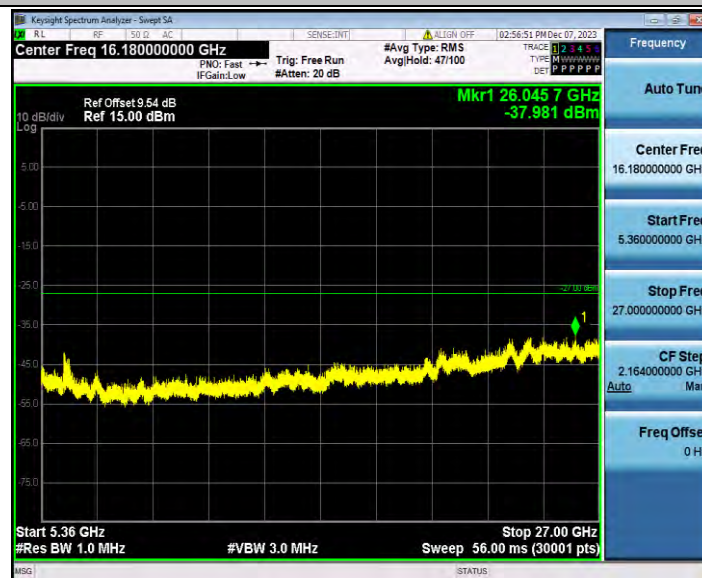
11N20SISO_Ant1_5200_30~5140



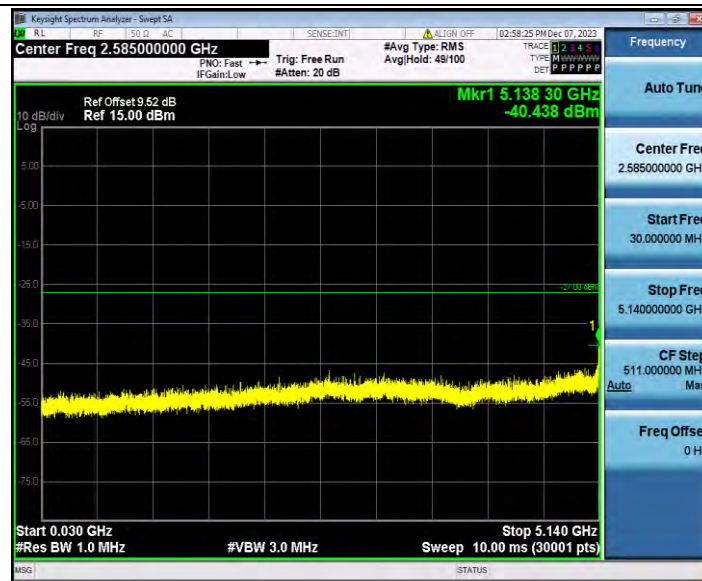
11N20SISO_Ant1_5200_5360~40000



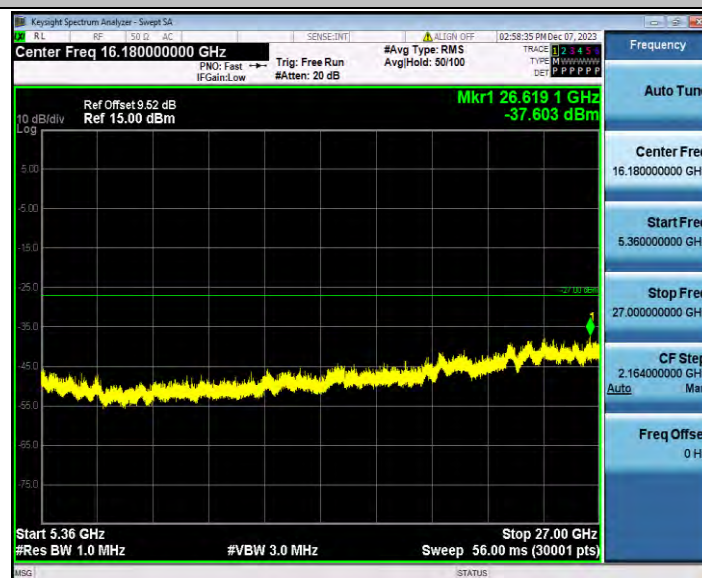
11N20SISO_Ant1_5240_30~5140



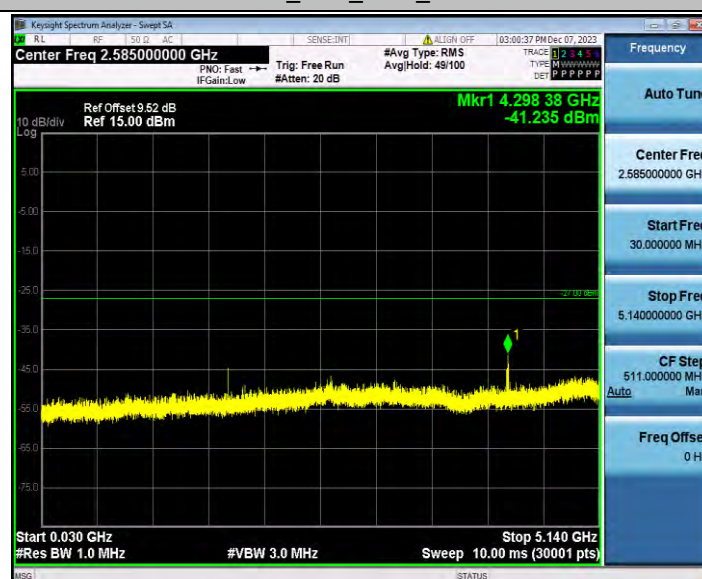
11N20SISO_Ant1_5240_5360~40000



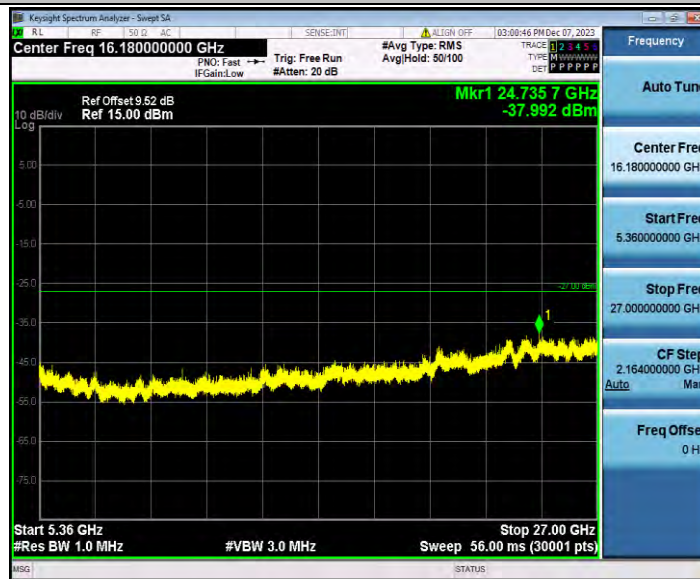
11N40SISO_Ant1_5190_30~5140



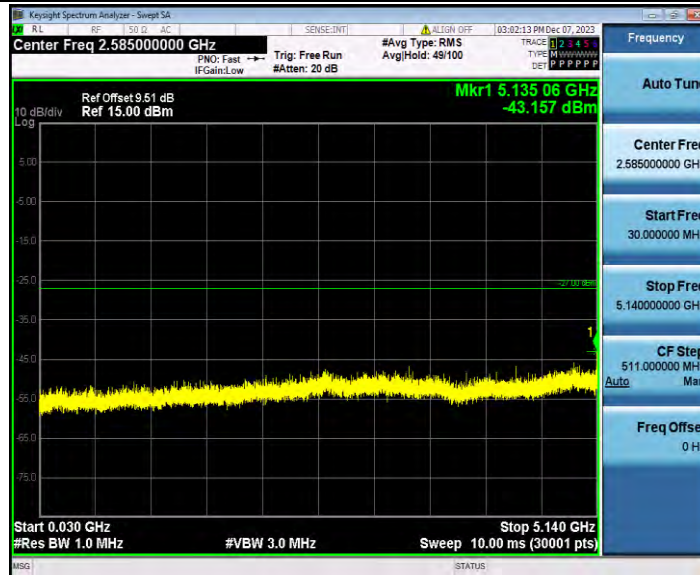
11N40SISO_Ant1_5190_5360~40000



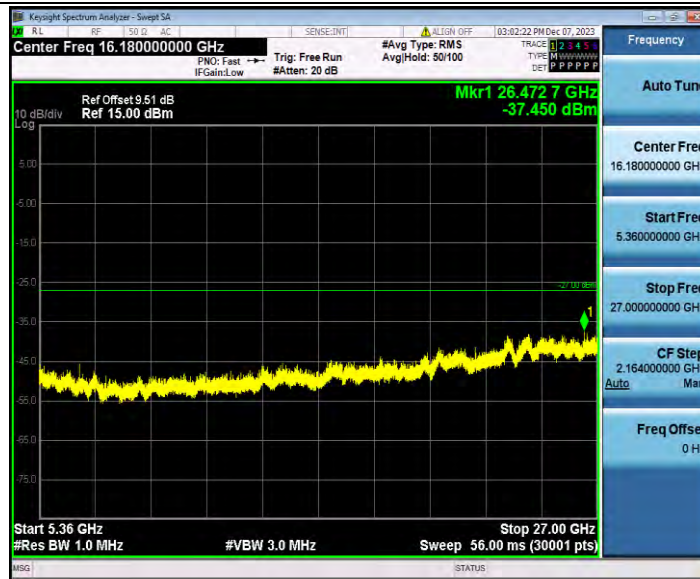
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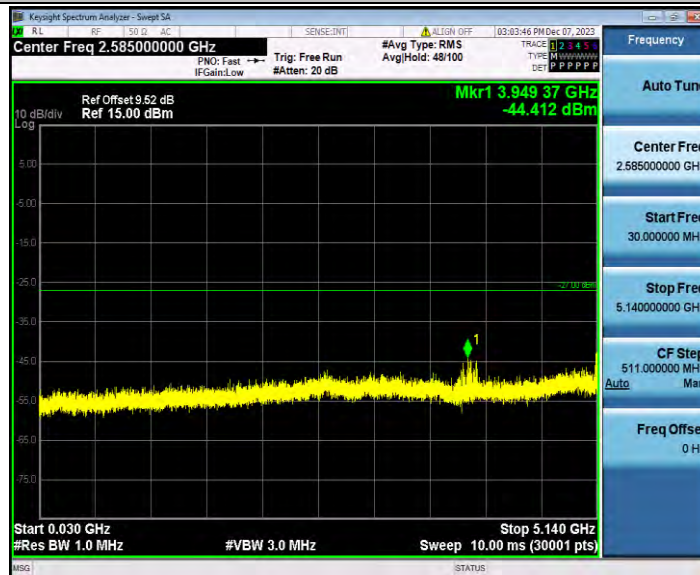
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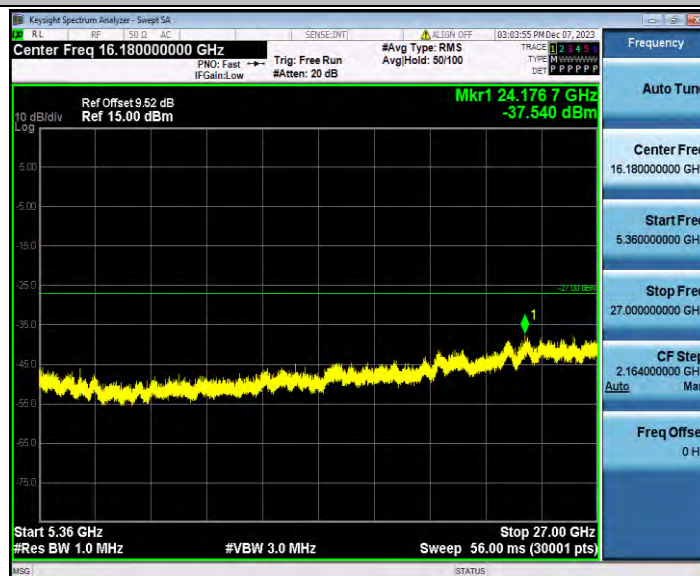
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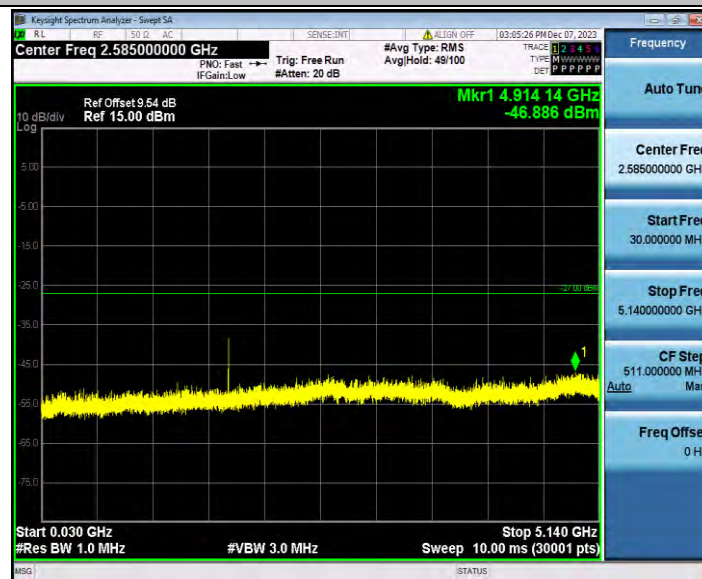
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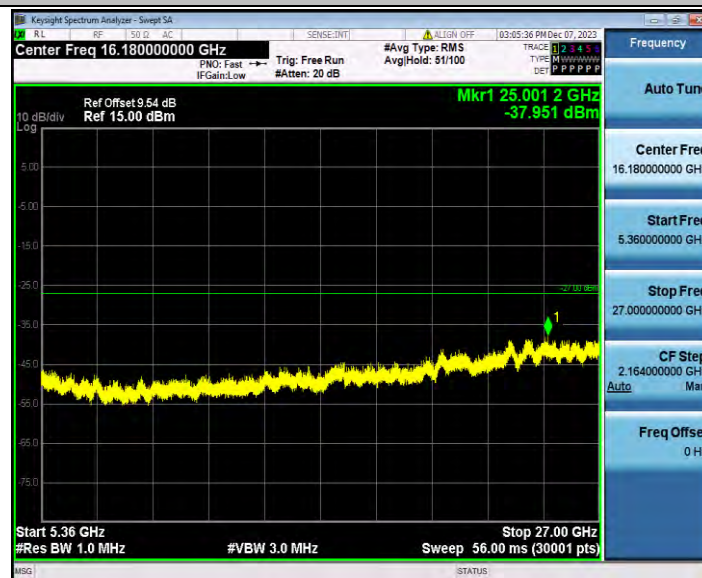
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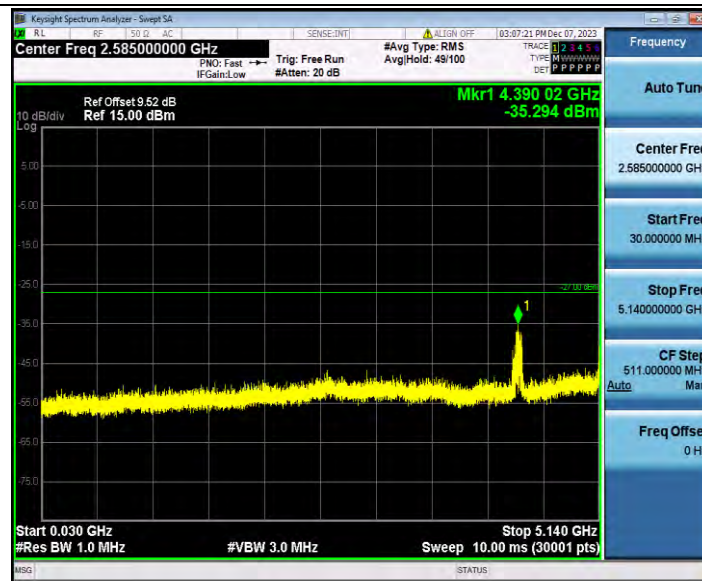
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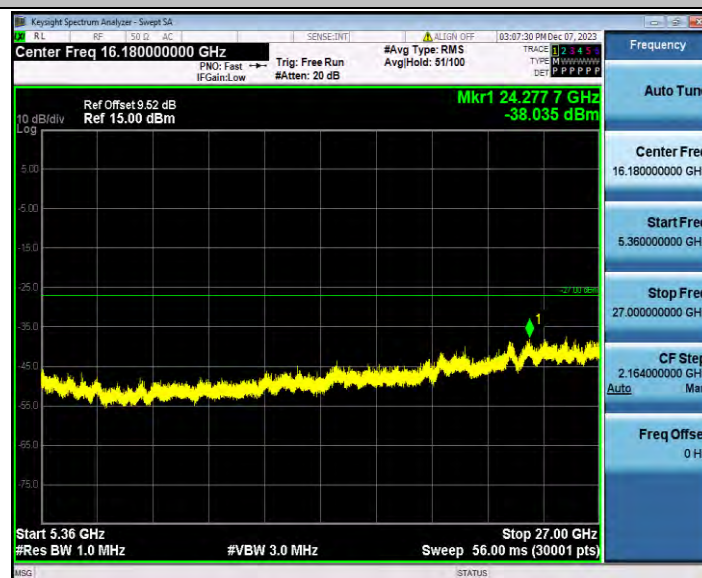
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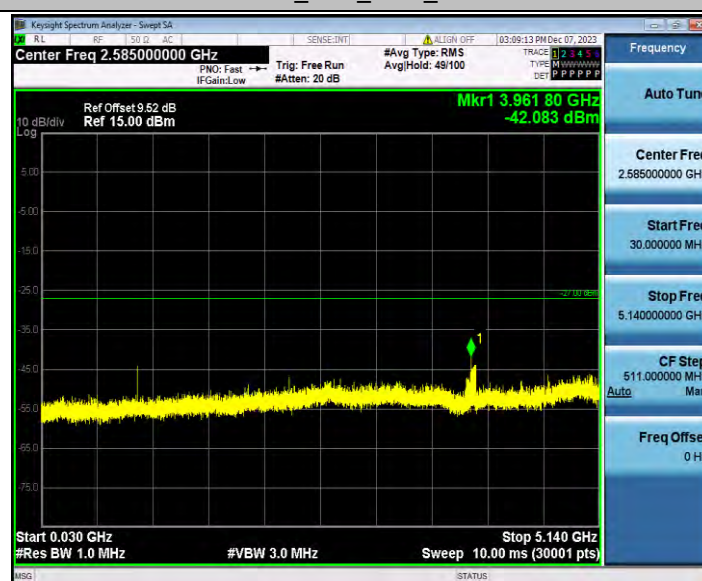
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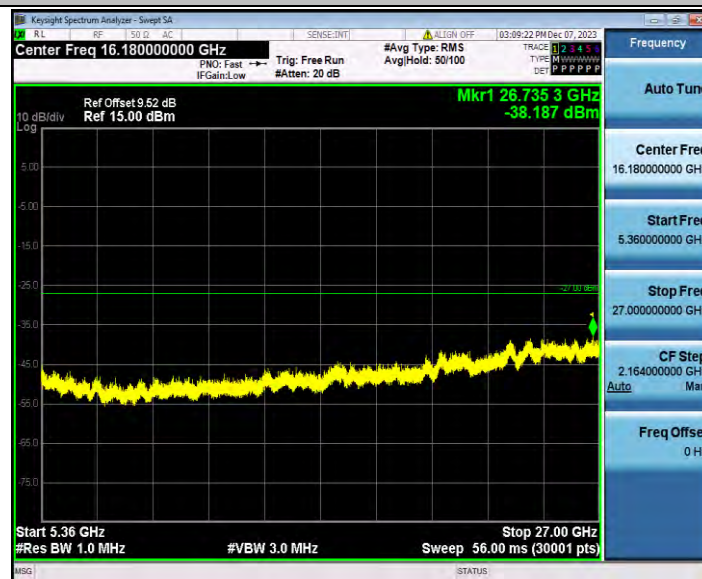
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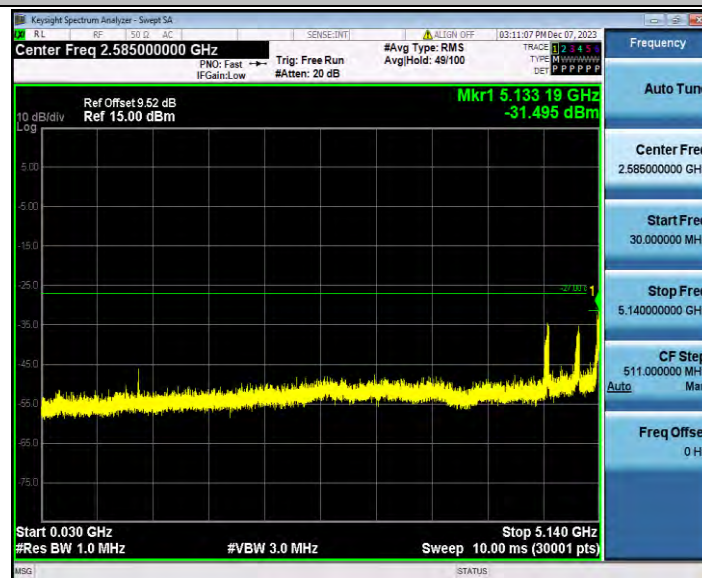
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11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140

