

Case No. : GTS20221012010-1-17	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.11.21	Test Engineer: Jenny zeng

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	20.280	5169.840	5190.120
		5200	22.000	5189.520	5211.520
		5240	21.120	5229.480	5250.600
11N20SISO	Ant1	5180	22.160	5169.840	5192.000
		5200	22.600	5188.360	5210.960
		5240	22.720	5229.640	5252.360
11N40SISO	Ant1	5190	59.120	5164.160	5223.280
		5230	62.160	5199.280	5261.440
11AC20SISO	Ant1	5180	20.080	5170.040	5190.120
		5200	20.320	5189.840	5210.160
		5240	20.800	5229.720	5250.520
11AC40SISO	Ant1	5190	46.560	5168.800	5215.360
		5230	42.720	5209.600	5252.320
11AC80SISO	Ant1	5210	101.920	5166.160	5268.080

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



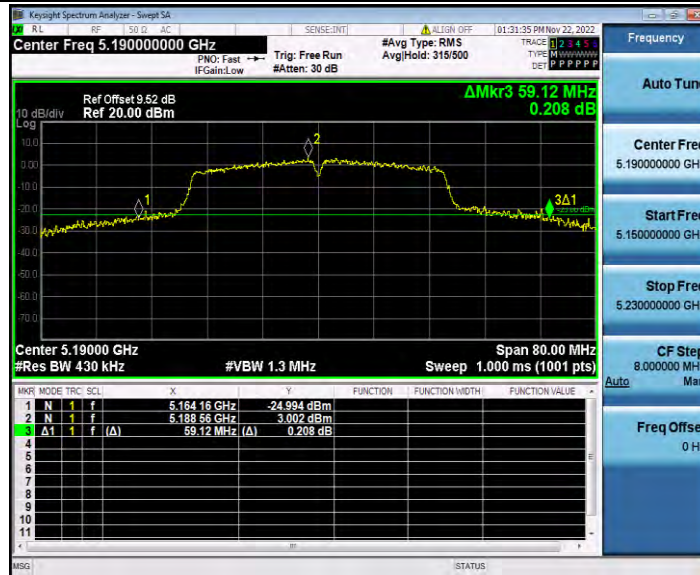
11N20SISO_Ant1_5200



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



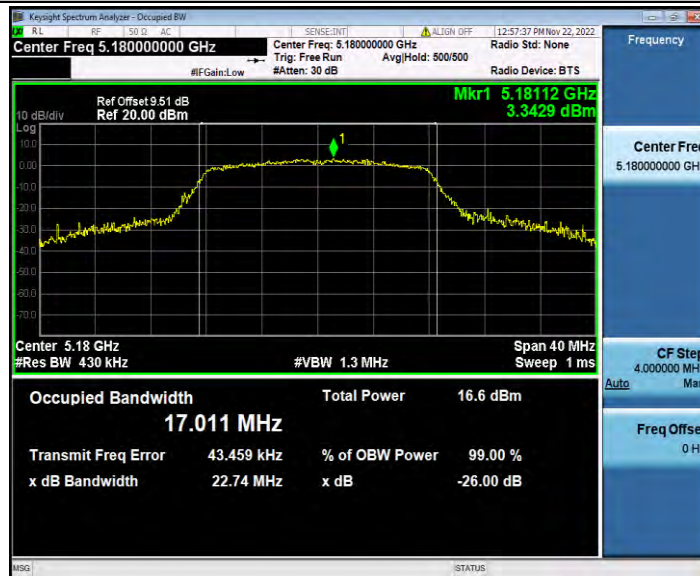
Appendix D.2: Occupied channel bandwidth

Test Result

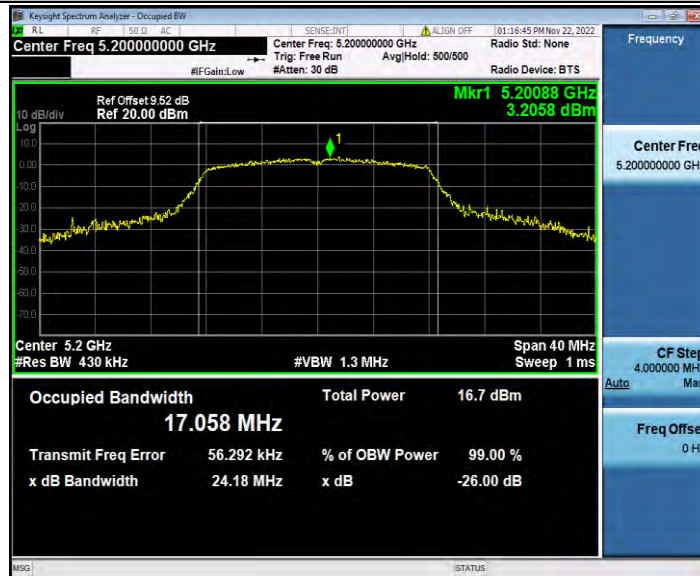
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	17.011	5171.538	5188.549
		5200	17.058	5191.527	5208.585
		5240	17.165	5231.428	5248.593
11N20SISO	Ant1	5180	17.942	5171.086	5189.028
		5200	17.908	5191.078	5208.986
		5240	17.963	5231.023	5248.986
11N40SISO	Ant1	5190	37.065	5171.684	5208.749
		5230	37.147	5211.516	5248.663
11AC20SISO	Ant1	5180	17.904	5171.103	5189.007
		5200	17.846	5191.141	5208.987
		5240	17.961	5231.057	5249.018
11AC40SISO	Ant1	5190	36.471	5171.965	5208.436
		5230	36.340	5211.944	5248.284
11AC80SISO	Ant1	5210	76.121	5172.193	5248.314

Test Graphs

11A_Ant1_5180



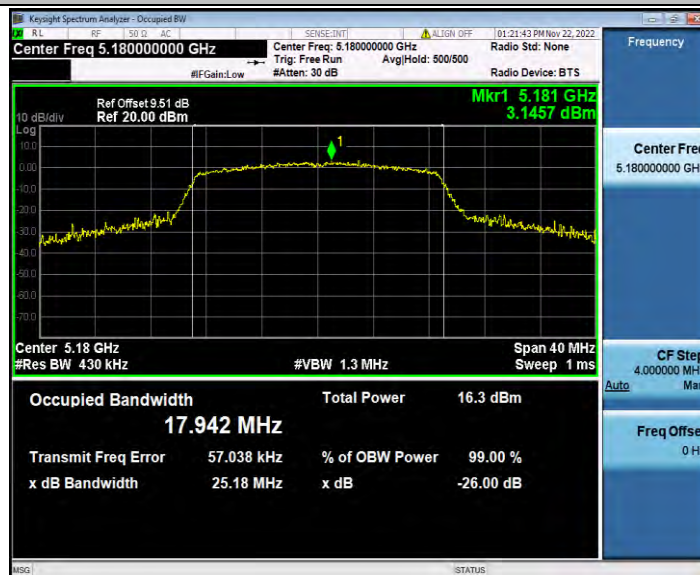
11A_Ant1_5200



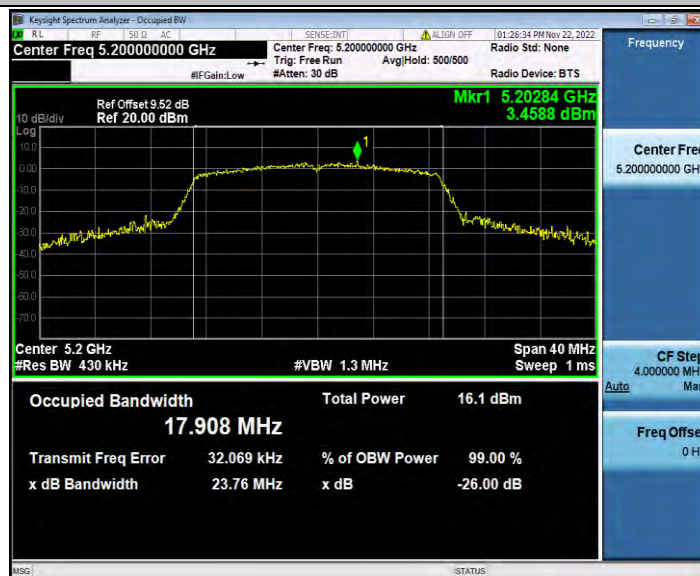
11A_Ant1_5240



11N20SISO_Ant1_5180



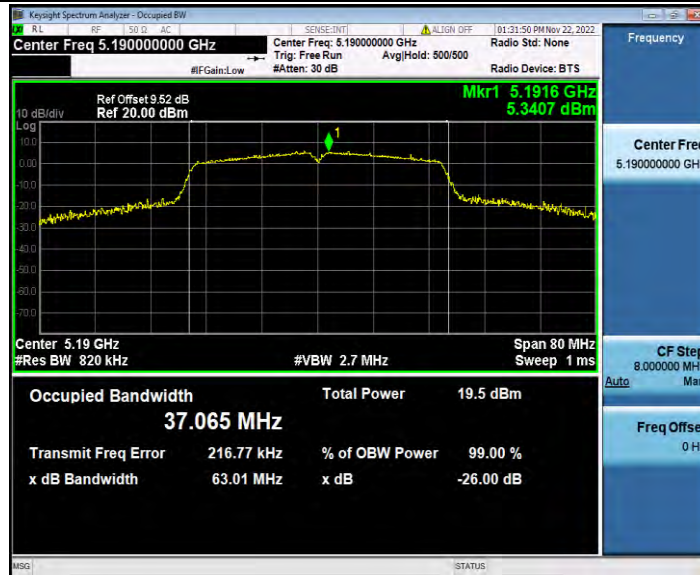
11N20SISO_Ant1_5200



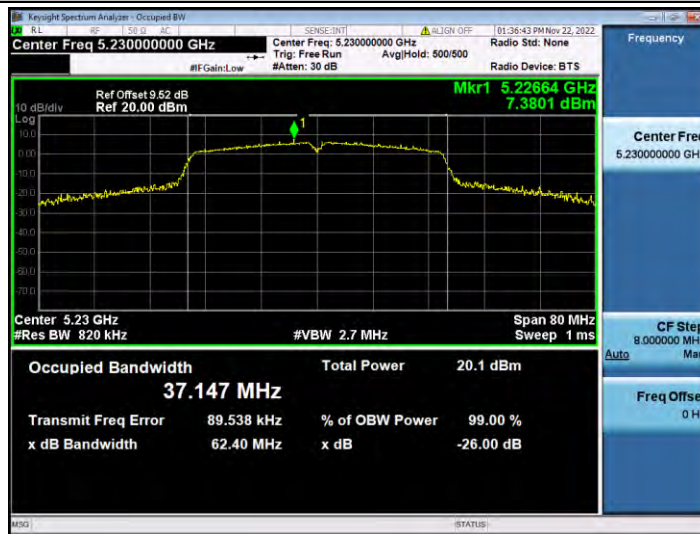
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



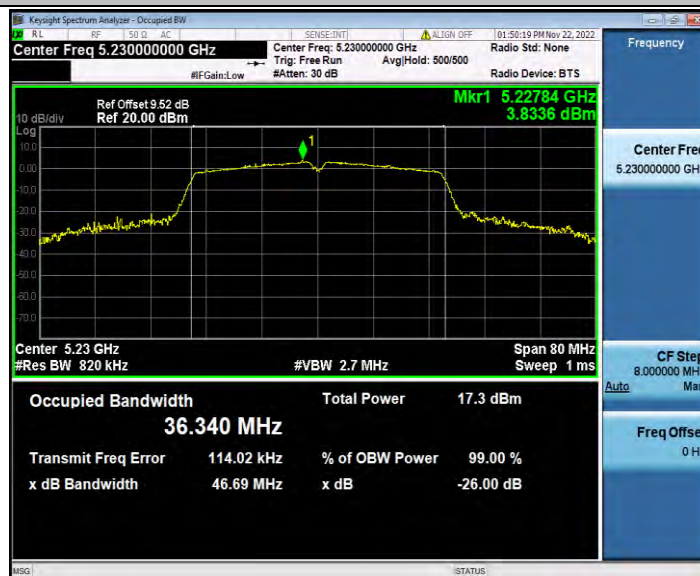
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



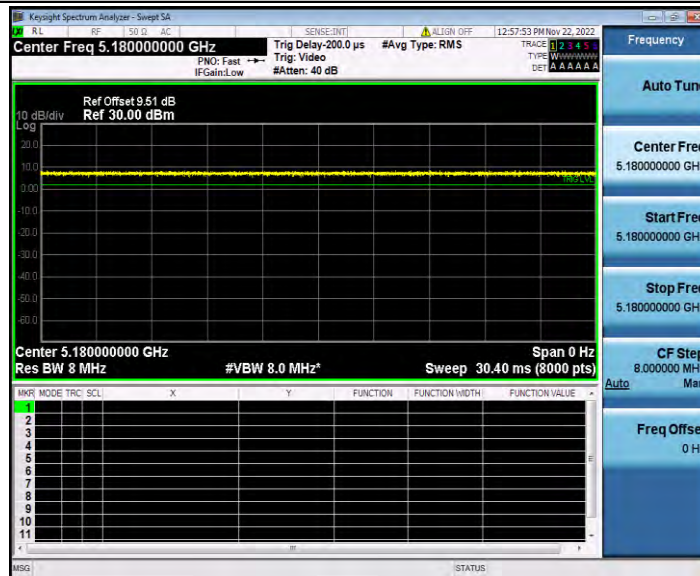
Appendix D.3: Duty Cycle

Test Result

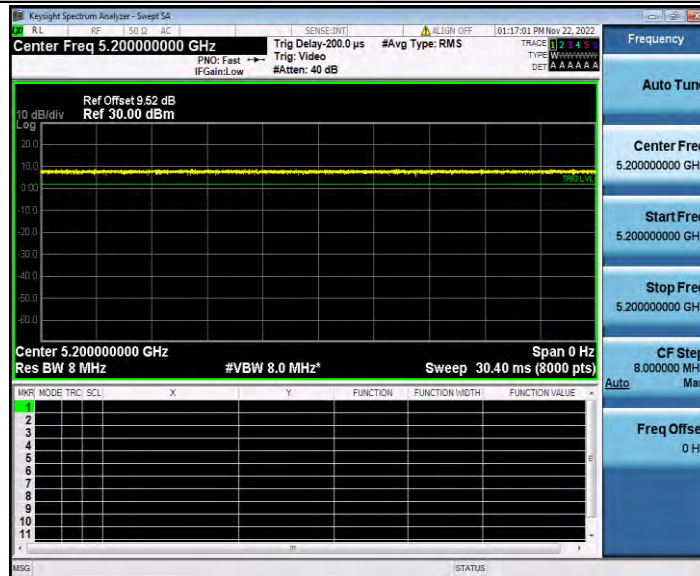
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N40SISO	Ant1	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC20SISO	Ant1	5180	1.31	1.35	97.04
		5200	1.31	1.35	97.04
		5240	1.31	1.35	97.04
11AC40SISO	Ant1	5190	0.66	0.69	95.65
		5230	0.65	0.69	94.20
11AC80SISO	Ant1	5210	0.32	0.36	88.89

Test Graphs

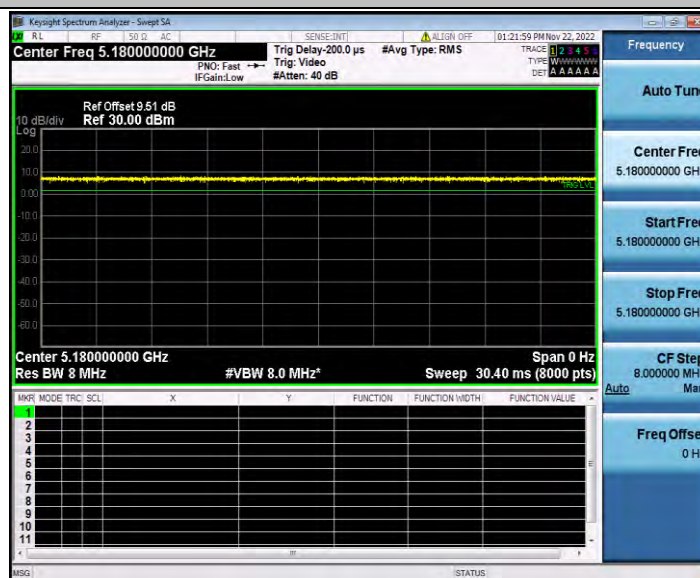
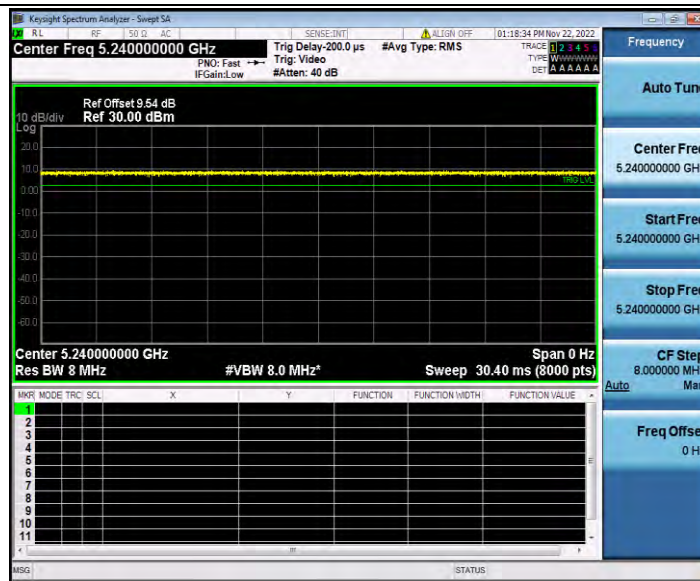
11A_Ant1_5180



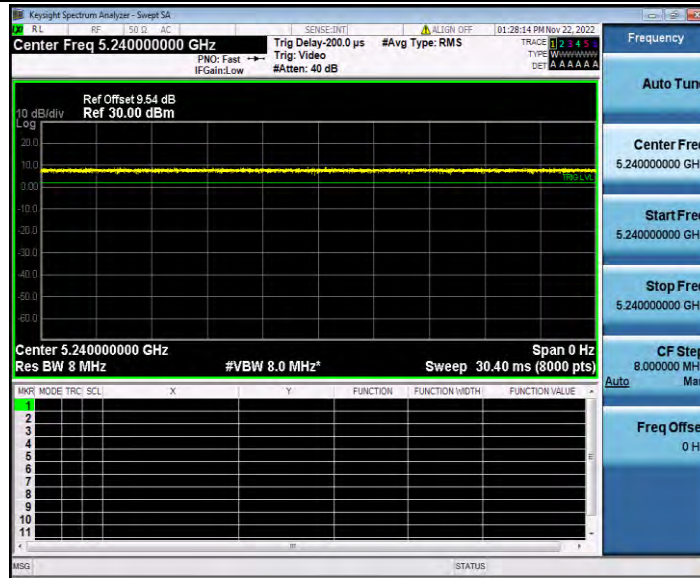
11A_Ant1_5200



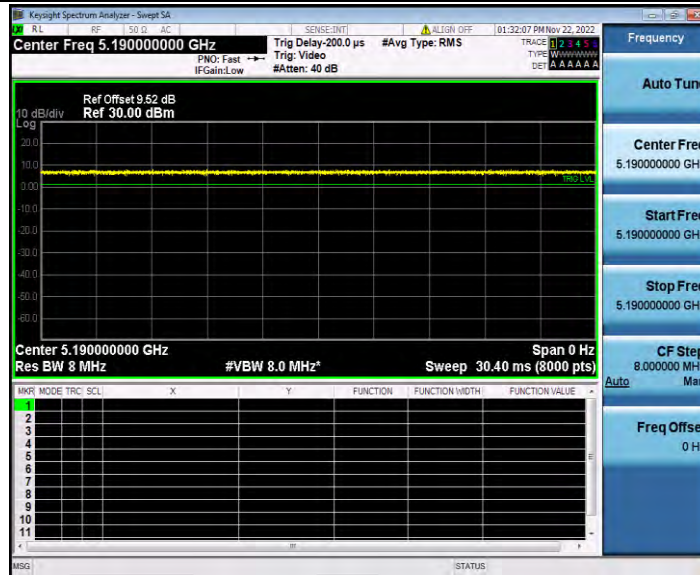
11A_Ant1_5240



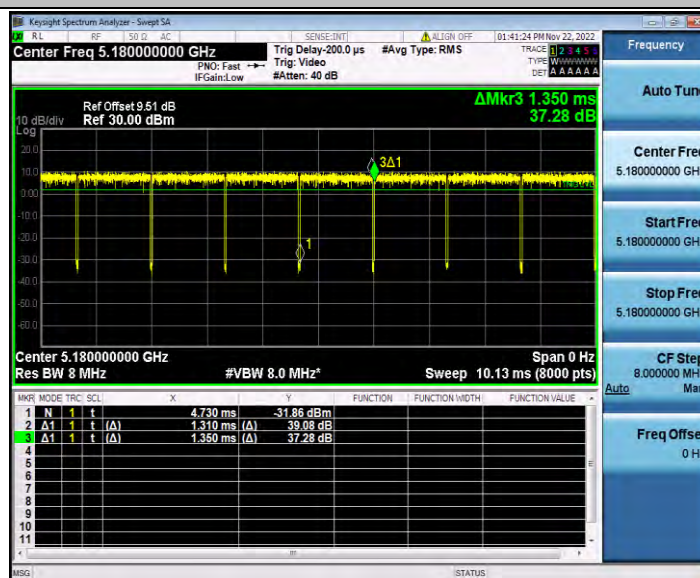
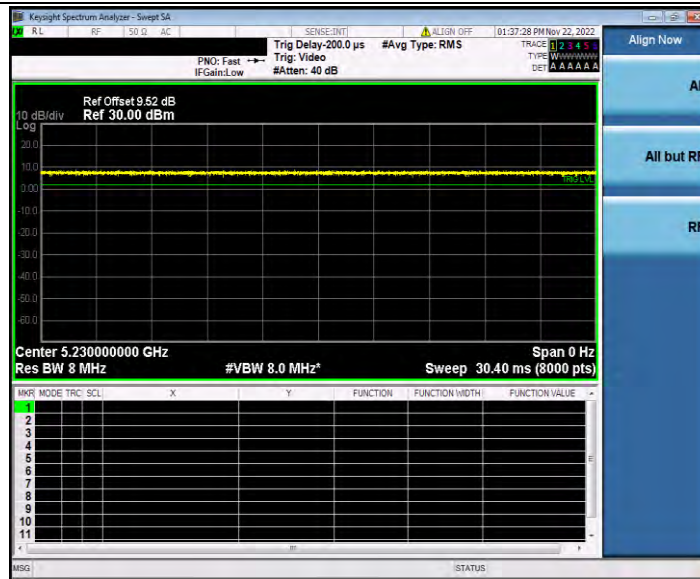
11N20SISO_Ant1_5240



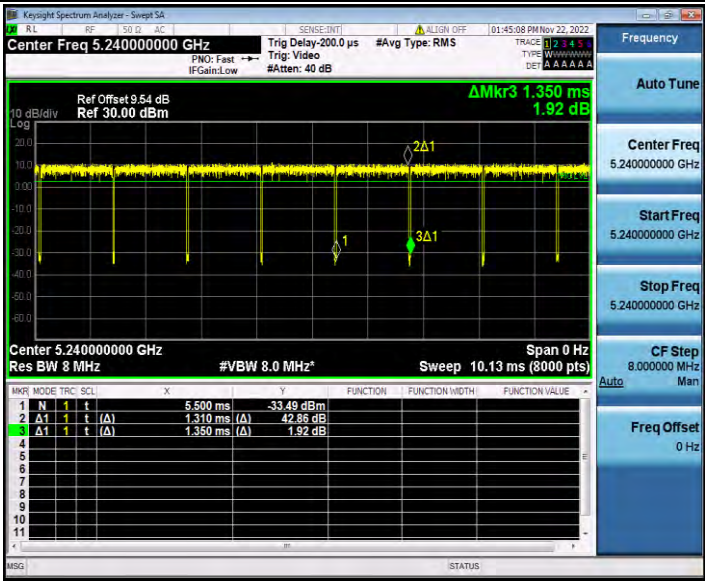
11N40SISO_Ant1_5190



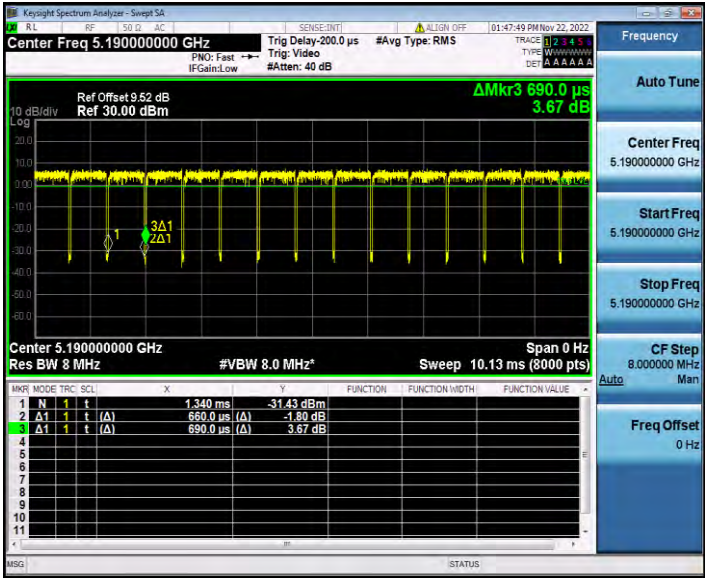
11N40SISO_Ant1_5230



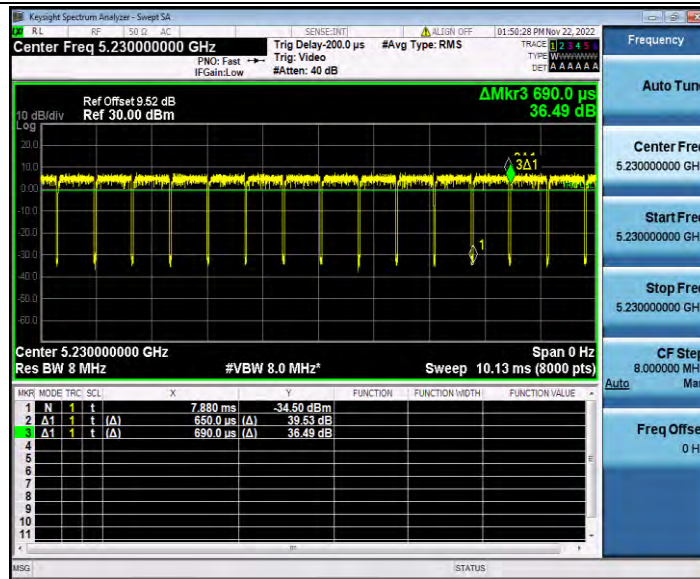
11AC20SISO_Ant1_5240



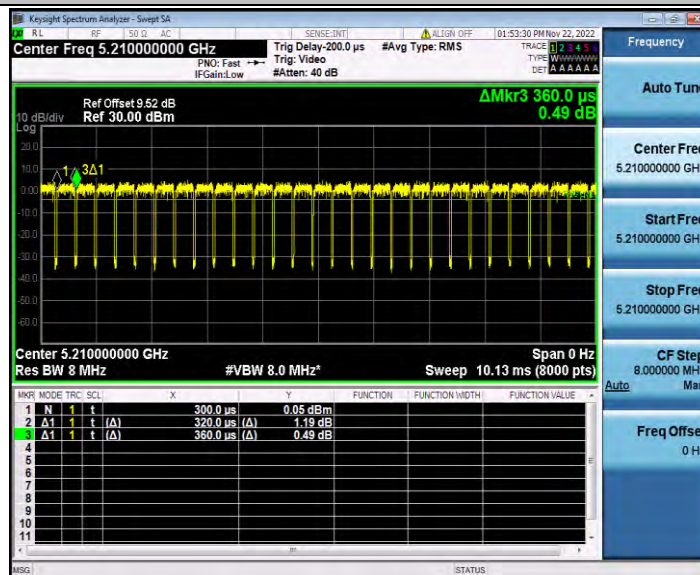
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_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	Ant1	5180	9.73	100.00	0.00	9.73	≤23.98	PASS
		5200	9.96	100.00	0.00	9.96	≤23.98	PASS
		5240	10.48	100.00	0.00	10.48	≤23.98	PASS
11N20SISO	Ant1	5180	9.53	100.00	0.00	9.53	≤23.98	PASS
		5200	9.25	100.00	0.00	9.25	≤23.98	PASS
		5240	10.02	100.00	0.00	10.02	≤23.98	PASS
11N40SISO	Ant1	5190	12.08	100.00	0.00	12.08	≤23.98	PASS
		5230	12.73	100.00	0.00	12.73	≤23.98	PASS
11AC20SISO	Ant1	5180	10.12	97.04	0.13	10.25	≤23.98	PASS
		5200	9.81	97.04	0.13	9.94	≤23.98	PASS
		5240	10.56	97.04	0.13	10.69	≤23.98	PASS
11AC40SISO	Ant1	5190	9.96	95.65	0.19	10.15	≤23.98	PASS
		5230	9.88	94.20	0.26	10.14	≤23.98	PASS
11AC80SISO	Ant1	5210	10.18	88.89	0.51	10.69	≤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	Ant1	5180	4.59	≤11.00	PASS
		5200	4.91	≤11.00	PASS
		5240	5.71	≤11.00	PASS
11N20SISO	Ant1	5180	4.44	≤11.00	PASS
		5200	4.2	≤11.00	PASS
		5240	4.88	≤11.00	PASS
11N40SISO	Ant1	5190	5.12	≤11.00	PASS
		5230	4.94	≤11.00	PASS
11AC20SISO	Ant1	5180	5.2	≤11.00	PASS
		5200	4.91	≤11.00	PASS
		5240	5.66	≤11.00	PASS
11AC40SISO	Ant1	5190	2.12	≤11.00	PASS
		5230	2.26	≤11.00	PASS
11AC80SISO	Ant1	5210	-0.32	≤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_Ant1_5180



11A_Ant1_5200



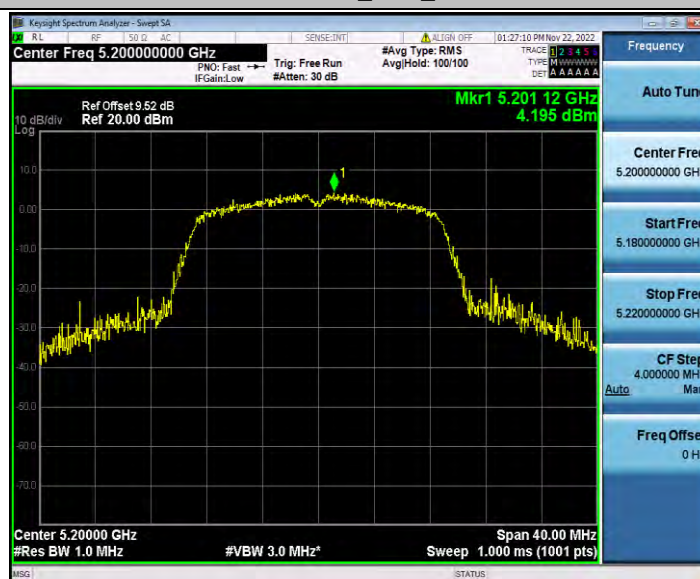
11A_Ant1_5240



11N20SISO_Ant1_5180



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



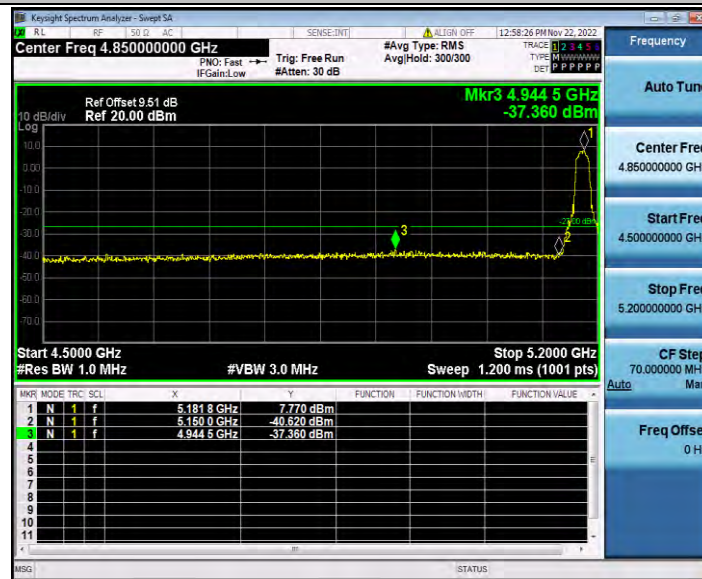
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.36	≤ -27	PASS
		High	5240	-37.7	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-36.4	≤ -27	PASS
		High	5240	-37.44	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-37.28	≤ -27	PASS
		High	5230	-38.05	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-36.43	≤ -27	PASS
		High	5240	-37.59	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-32.05	≤ -27	PASS
		High	5230	-38.39	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-37.18	≤ -27	PASS
		High	5210	-38.35	≤ -27	PASS

Test Graphs B1

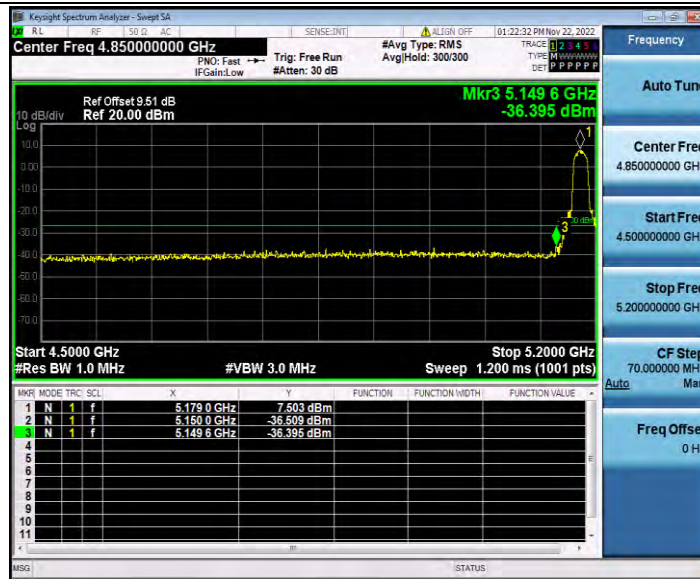
11A_Ant1_Low_5180



11A_Ant1_High_5240



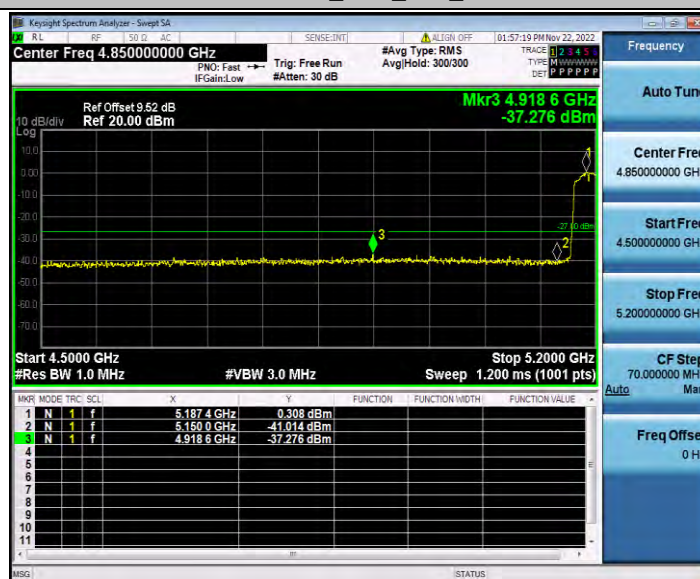
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



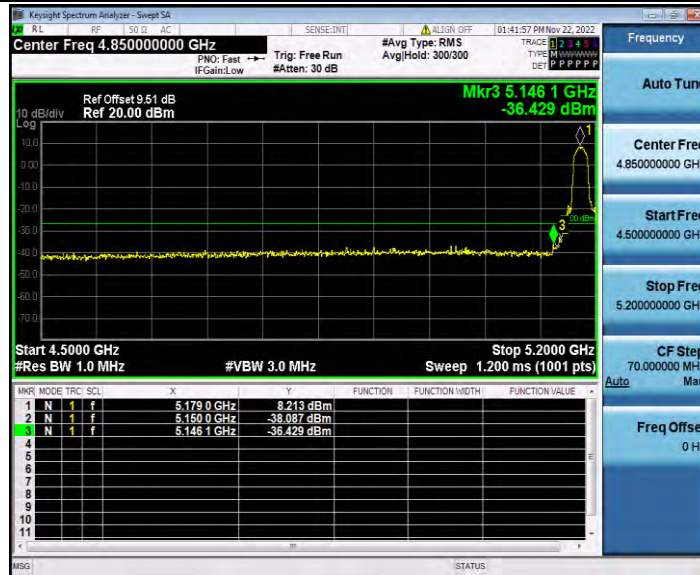
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



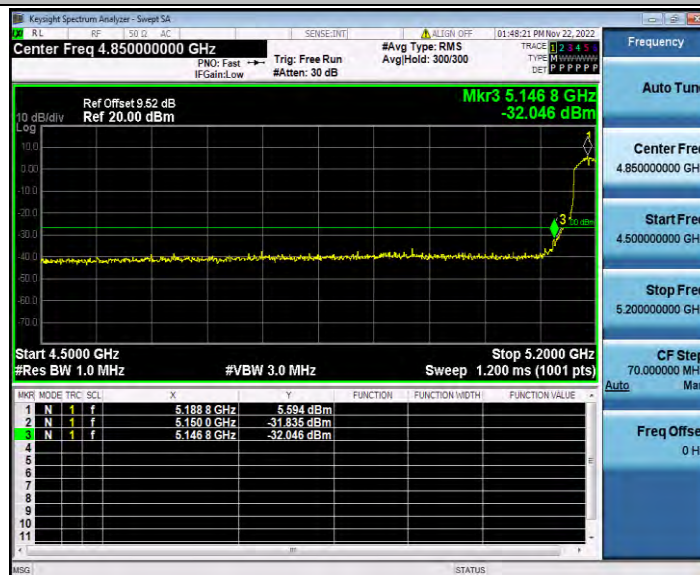
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



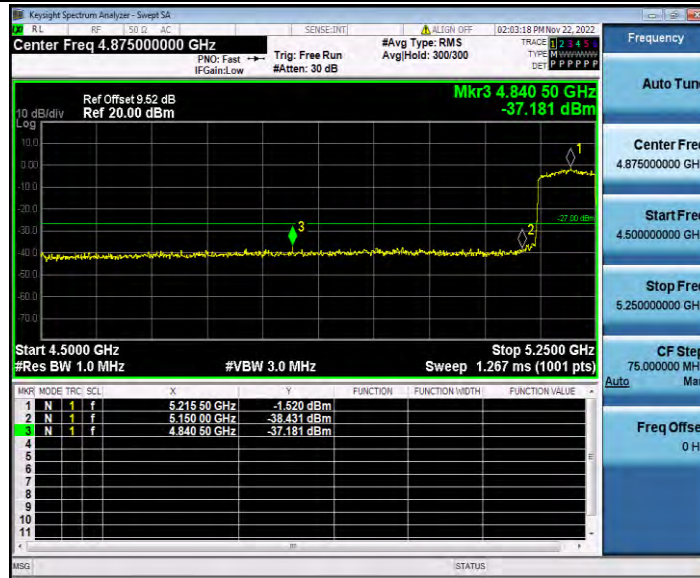
11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

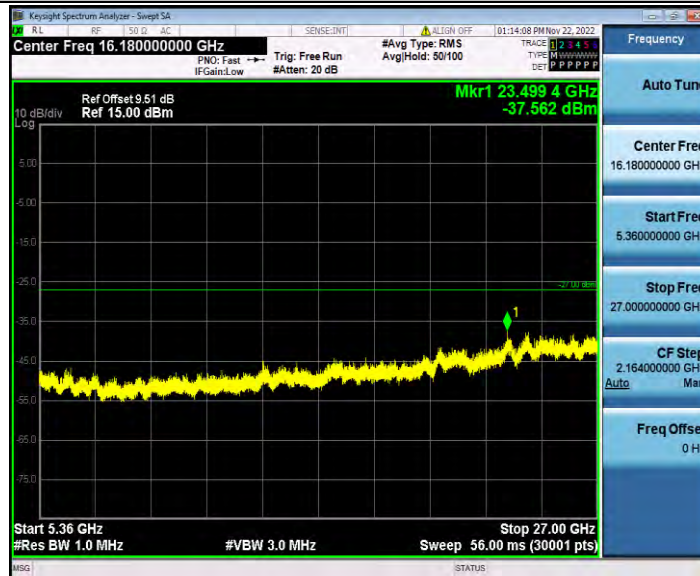
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5100.65	-45.87	≤-27	PASS
			5360~40000	23499.37	-37.56	≤-27	PASS
		5200	30~5140	5059.43	-45.6	≤-27	PASS
			5360~40000	24810.75	-37.67	≤-27	PASS
		5240	30~5140	5124.84	-46.51	≤-27	PASS
			5360~40000	26024.04	-37.09	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5138.81	-46.06	≤-27	PASS
			5360~40000	24211.33	-37.71	≤-27	PASS
		5200	30~5140	5103.04	-46.19	≤-27	PASS
			5360~40000	25503.23	-37.64	≤-27	PASS
		5240	30~5140	2683.62	-46.27	≤-27	PASS
			5360~40000	25183.68	-38.18	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5136.76	-34.27	≤-27	PASS
			5360~40000	25159.16	-37.9	≤-27	PASS
		5230	30~5140	5135.57	-45.27	≤-27	PASS
			5360~40000	25593.4	-38.09	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5071.53	-44.82	≤-27	PASS
			5360~40000	26039.91	-37.19	≤-27	PASS
		5200	30~5140	5109.51	-46.49	≤-27	PASS
			5360~40000	26018.99	-38.7	≤-27	PASS
		5240	30~5140	5012.93	-46.59	≤-27	PASS
			5360~40000	26717.96	-38.32	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5135.4	-40.57	≤-27	PASS
			5360~40000	26075.25	-38.22	≤-27	PASS
		5230	30~5140	2595.39	-47.05	≤-27	PASS
			5360~40000	24291.39	-38.71	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5137.79	-31.14	≤-27	PASS
			5360~40000	24245.23	-37.61	≤-27	PASS

Test Graphs

11A_Ant1_5180_30~5140



11A_Ant1_5180_5360~40000



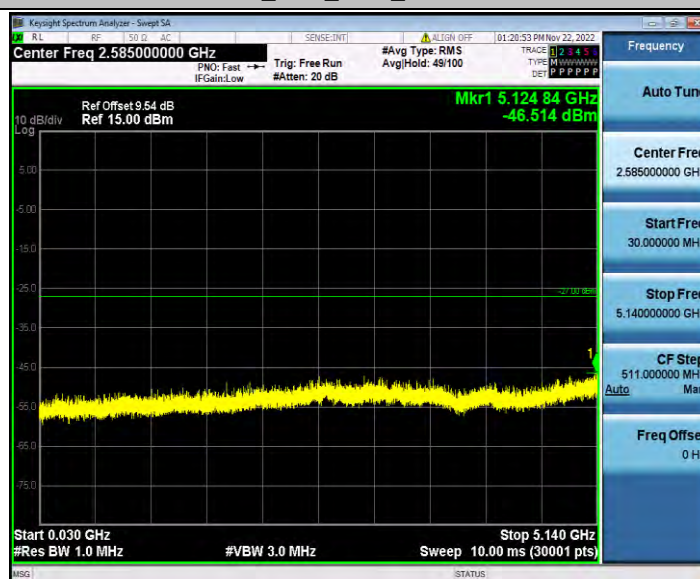
11A_Ant1_5200_30~5140



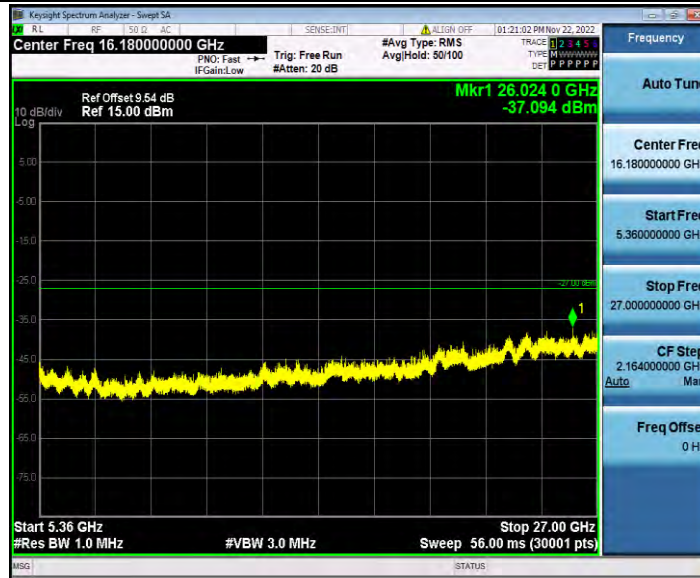
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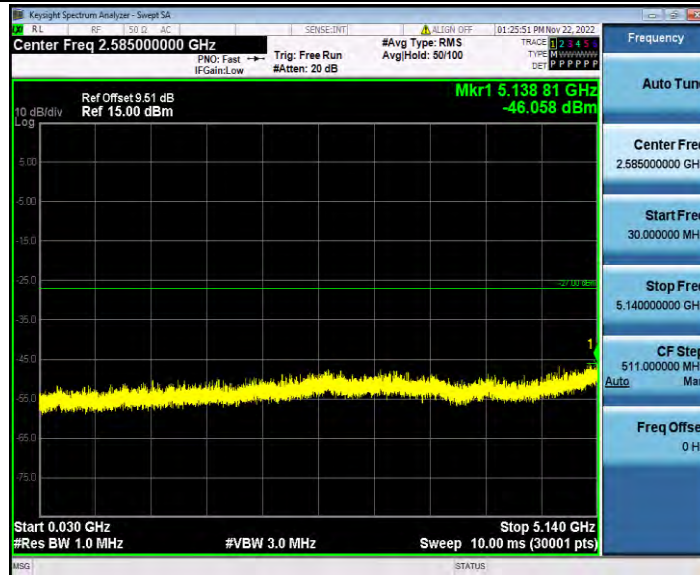
11A_Ant1_5240_30~5140



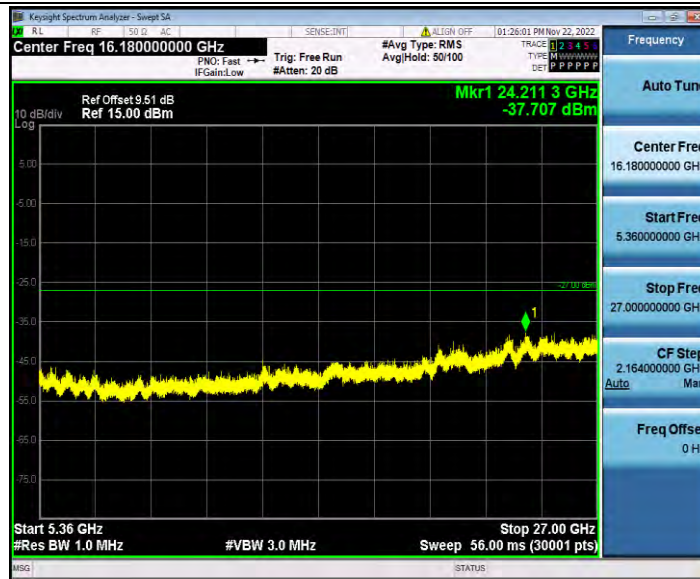
11A_Ant1_5240_5360~40000



11N20SISO_Ant1_5180_30~5140



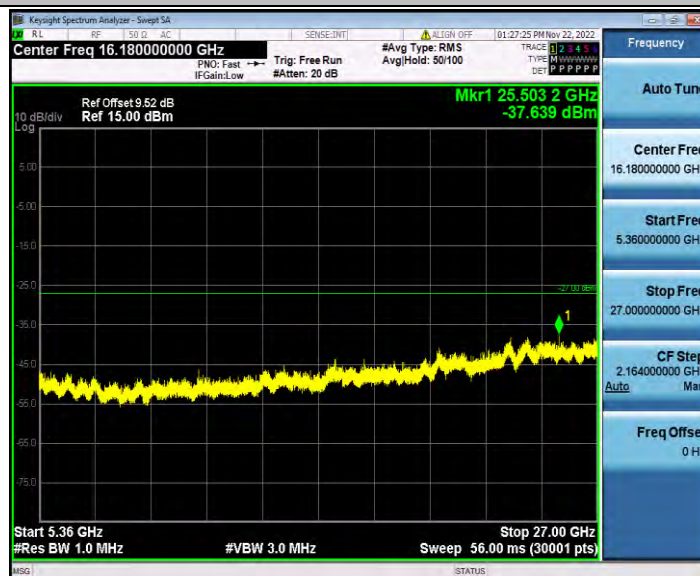
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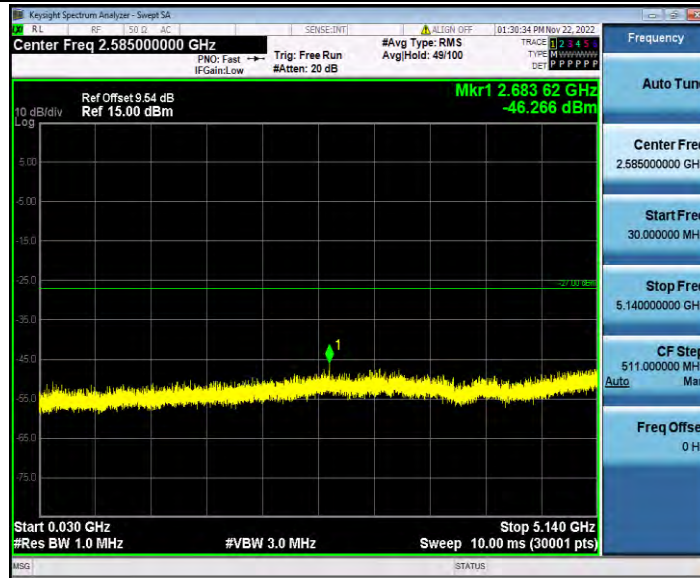
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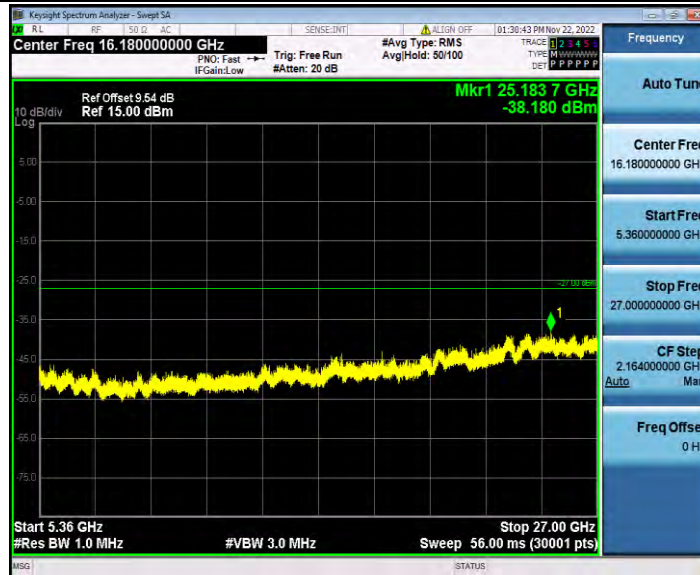
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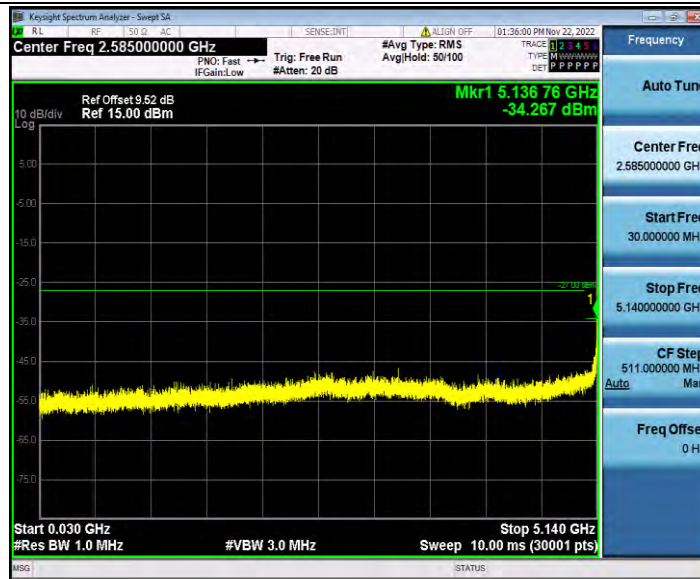
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11N20SISO_Ant1_5240_5360~40000



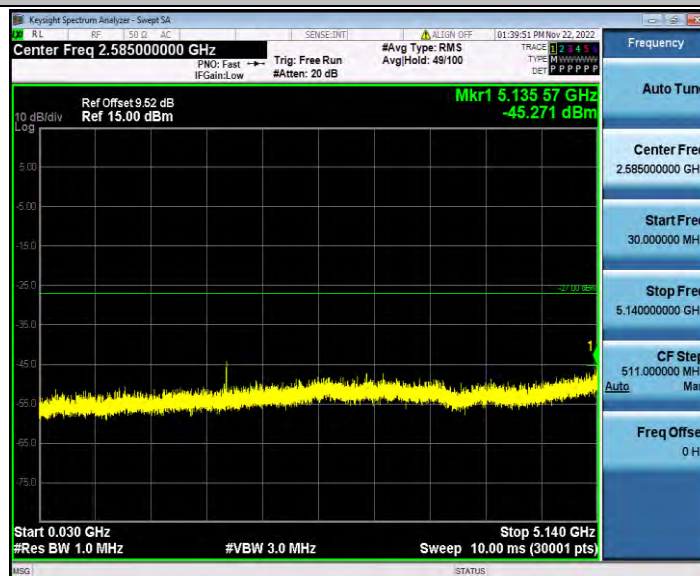
11N40SISO_Ant1_5190_30~5140



11N40SISO_Ant1_5190_5360~40000



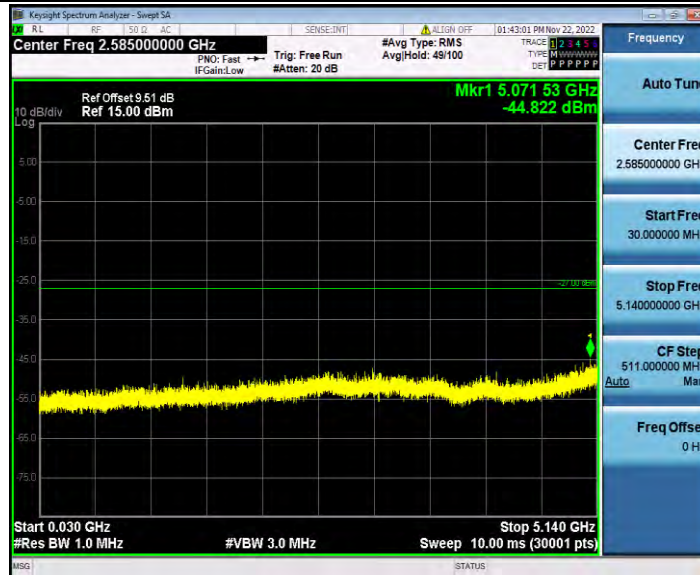
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11N40SISO_Ant1_5230_5360~40000



11AC20SISO_Ant1_5180_30~5140



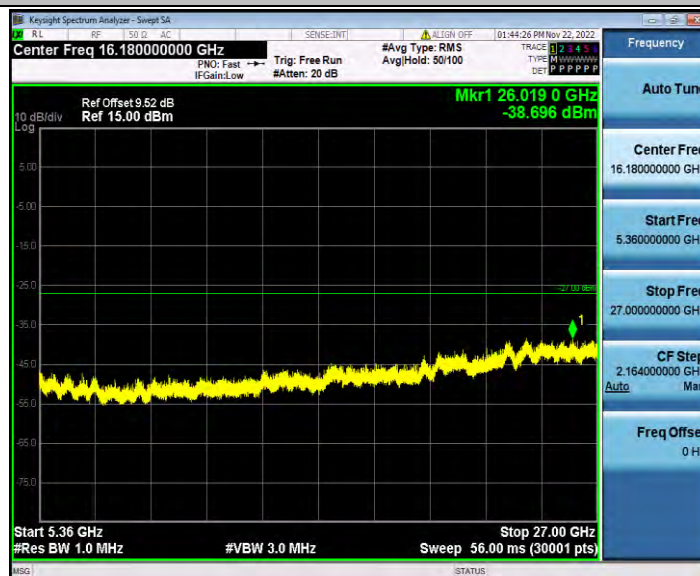
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11AC20SISO_Ant1_5200_30~5140



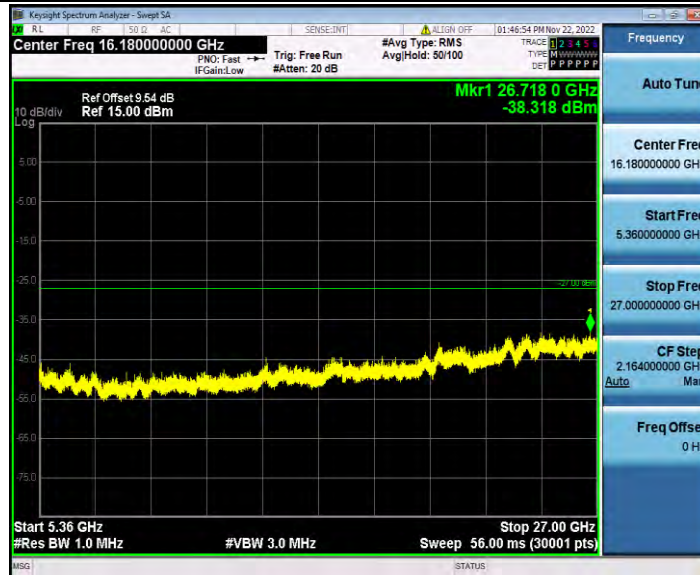
11AC20SISO_Ant1_5200_5360~40000



11AC20SISO_Ant1_5240_30~5140



11AC20SISO_Ant1_5240_5360~40000



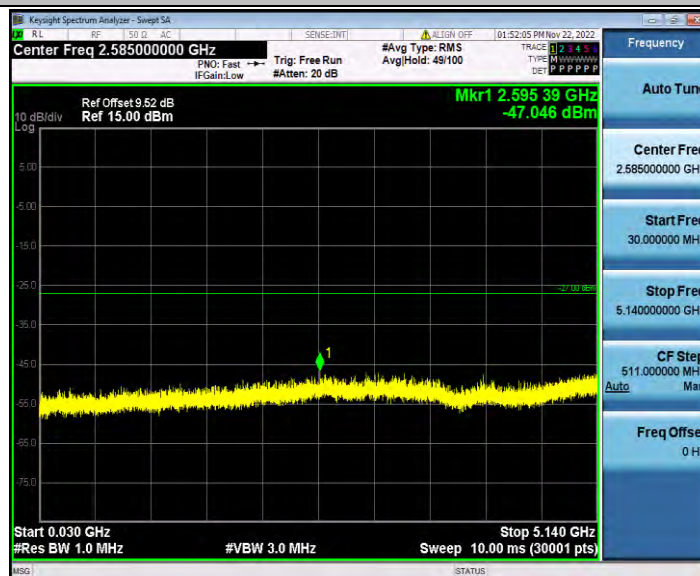
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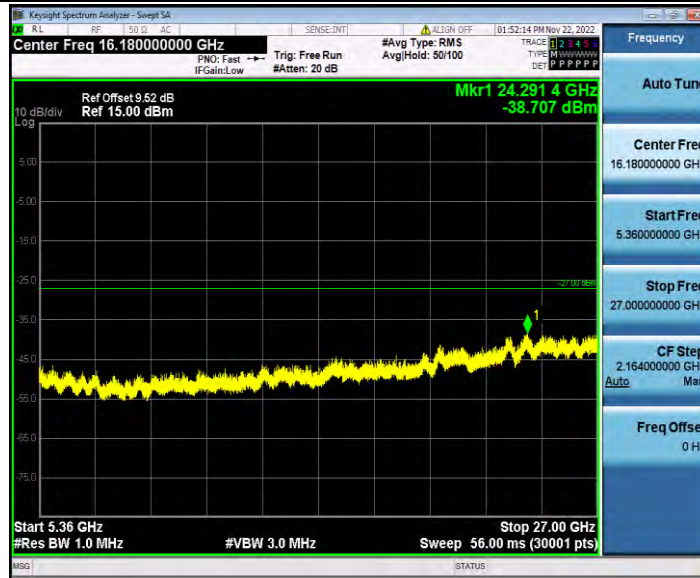
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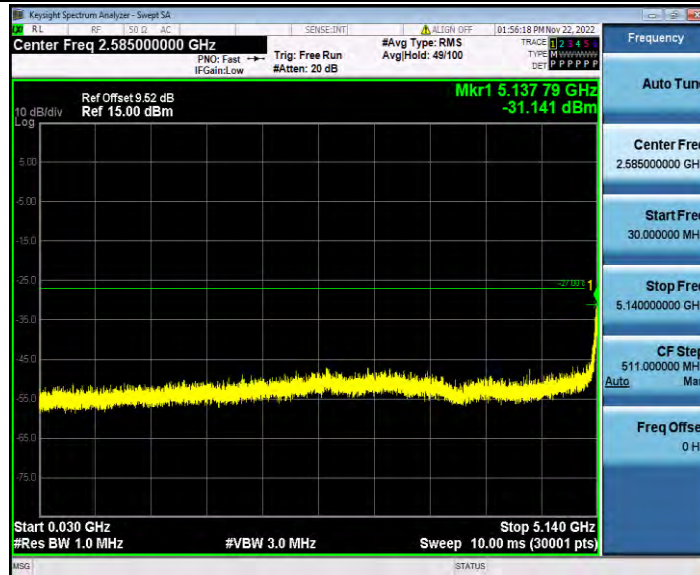
11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000

