

Case No. : <u>GTS20221012010-1-26</u>
Ambient Condition: <u>26</u> °C, <u>50</u> %RH, Atmos <u>100.1</u> Kpa,
Test Date: <u>2022.11.18</u> Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	19.840	5170.240	5190.080
		5200	21.480	5189.720	5211.200
		5240	23.560	5229.560	5253.120
11N20SISO	Ant1	5180	20.200	5169.920	5190.120
		5200	21.840	5189.800	5211.640
		5240	21.200	5229.800	5251.000
11N40SISO	Ant1	5190	40.720	5170.080	5210.800
		5230	61.200	5200.000	5261.200
11AC20SISO	Ant1	5180	22.360	5169.760	5192.120
		5200	20.400	5189.760	5210.160
		5240	21.440	5229.680	5251.120
11AC40SISO	Ant1	5190	59.360	5160.800	5220.160
		5230	61.760	5200.240	5262.000
11AC80SISO	Ant1	5210	102.080	5169.360	5271.440

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



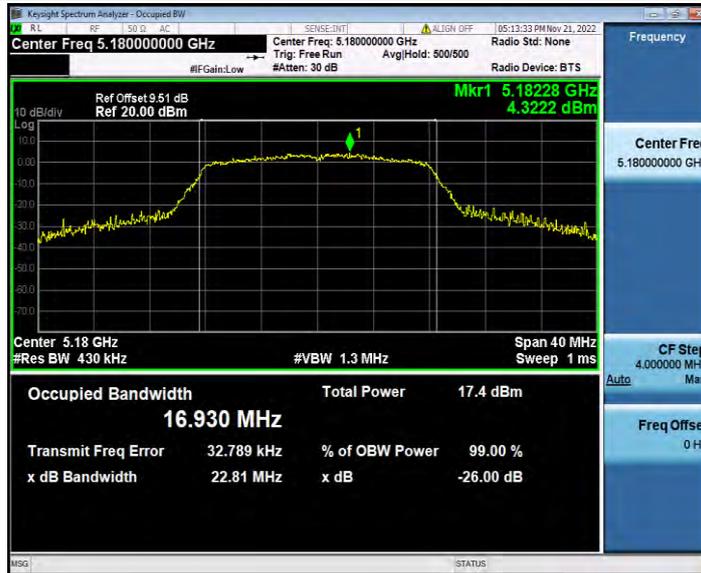
Appendix D.2: Occupied channel bandwidth

Test Result

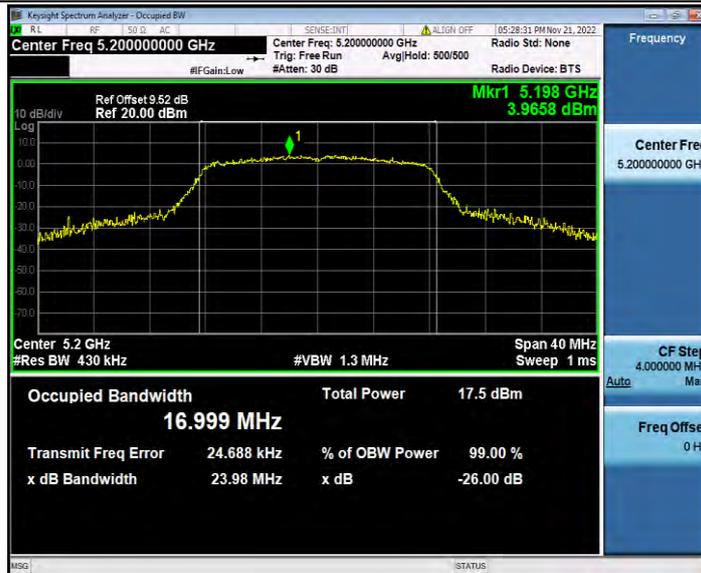
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	16.930	5171.568	5188.498
		5200	16.999	5191.525	5208.524
		5240	17.175	5231.420	5248.595
11N20SISO	Ant1	5180	17.858	5171.115	5188.973
		5200	17.958	5191.065	5209.023
		5240	17.916	5231.052	5248.968
11N40SISO	Ant1	5190	36.893	5171.732	5208.625
		5230	37.129	5211.545	5248.674
11AC20SISO	Ant1	5180	17.910	5171.121	5189.031
		5200	17.923	5191.072	5208.995
		5240	17.941	5231.015	5248.956
11AC40SISO	Ant1	5190	37.013	5171.698	5208.711
		5230	37.069	5211.583	5248.652
11AC80SISO	Ant1	5210	75.991	5172.223	5248.214

Test Graphs

11A_Ant1_5180



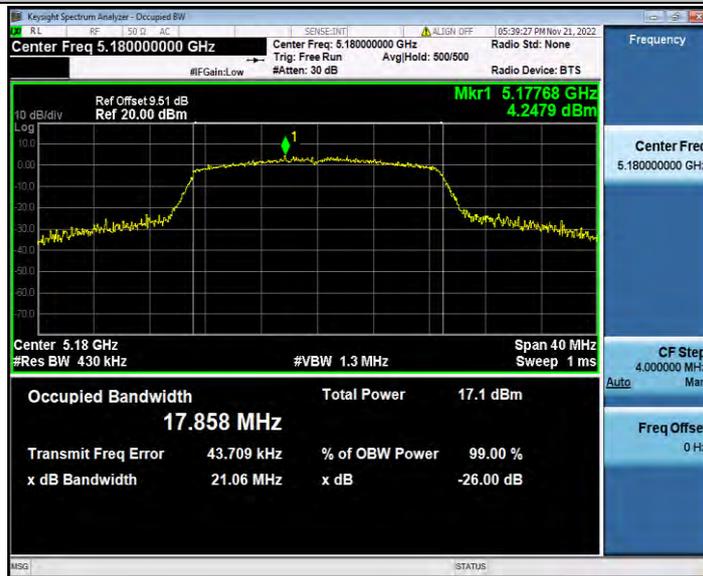
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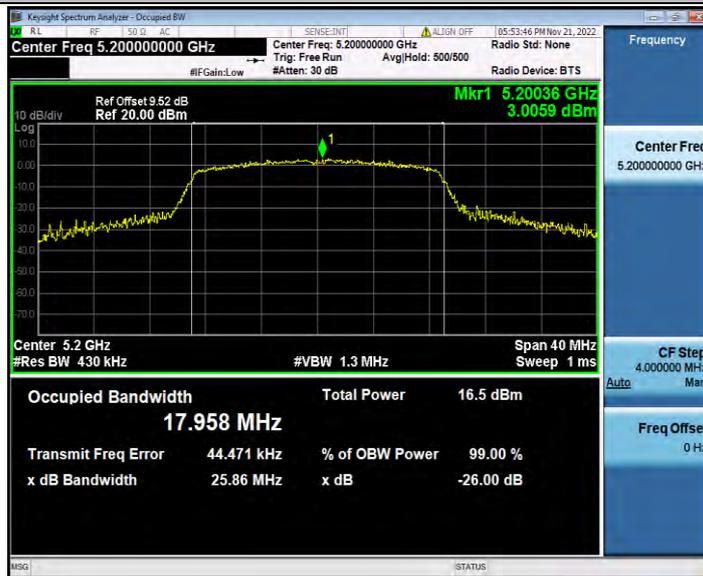
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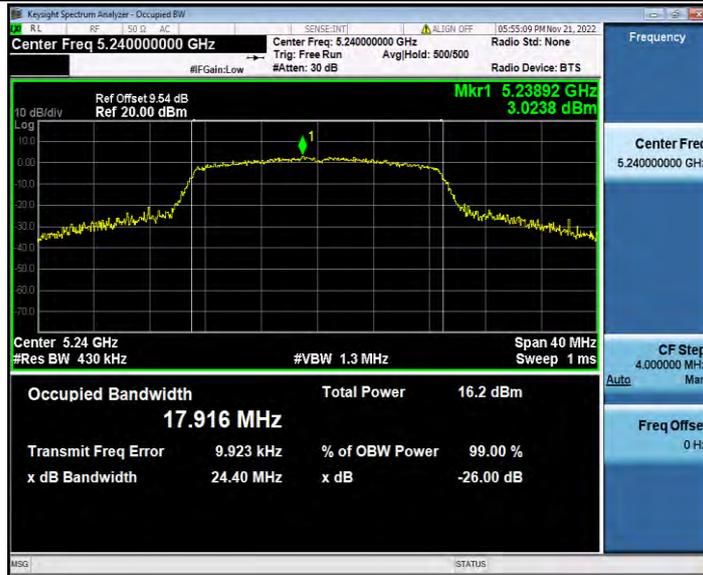
11N20SISO_Ant1_5180



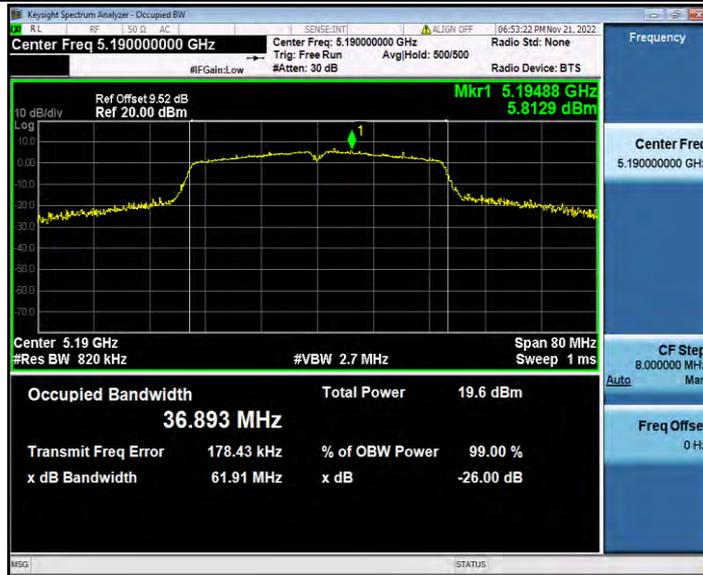
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



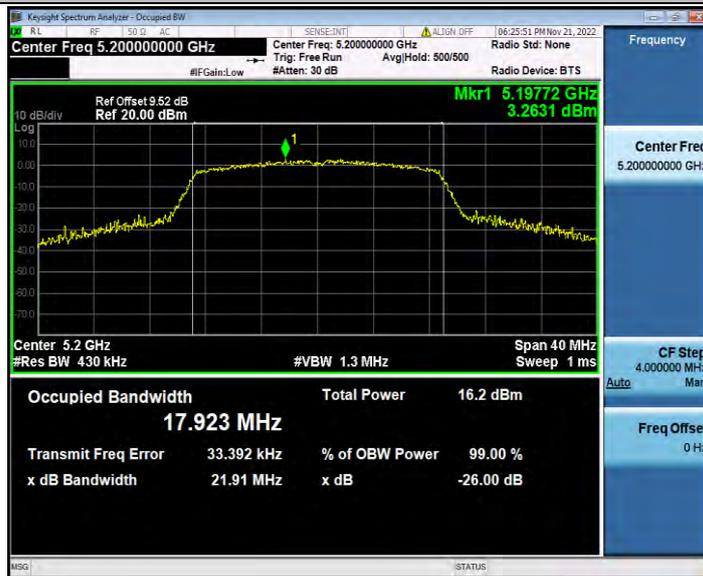
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11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



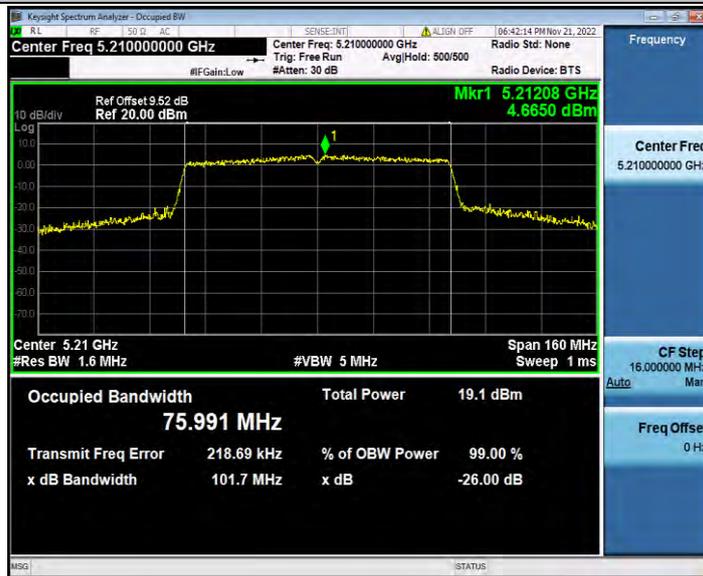
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



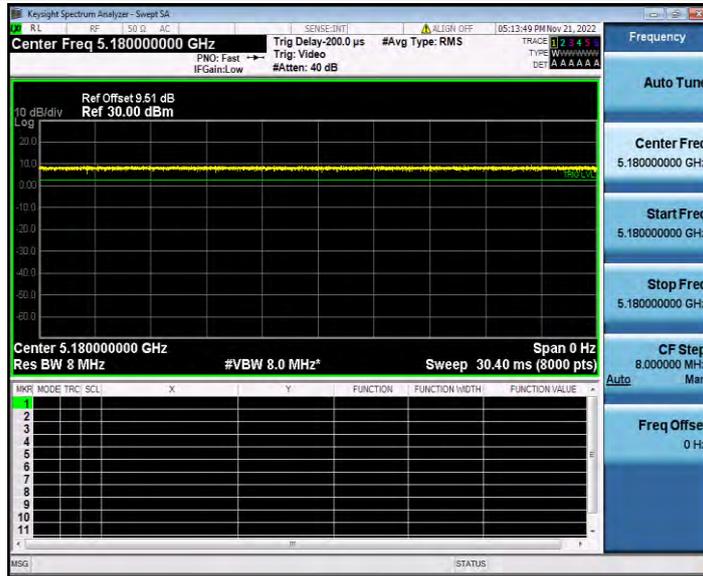
Appendix D.3: Duty Cycle

Test Result

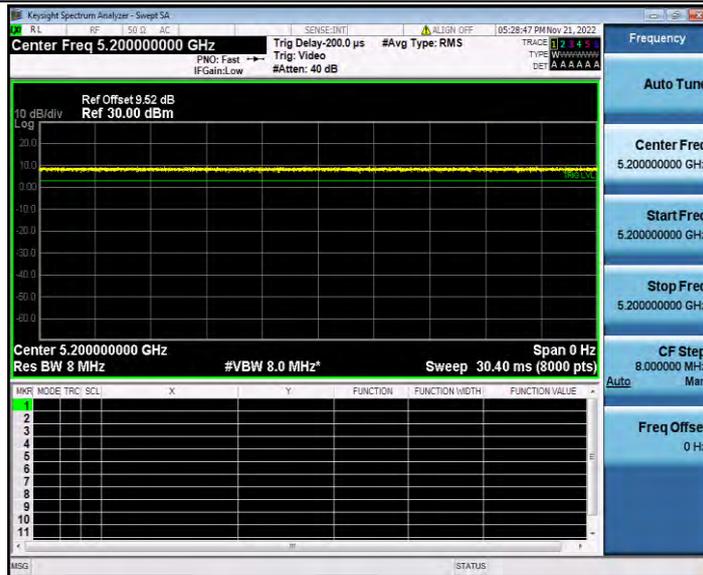
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N40SISO	Ant1	5190	30.00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

Test Graphs

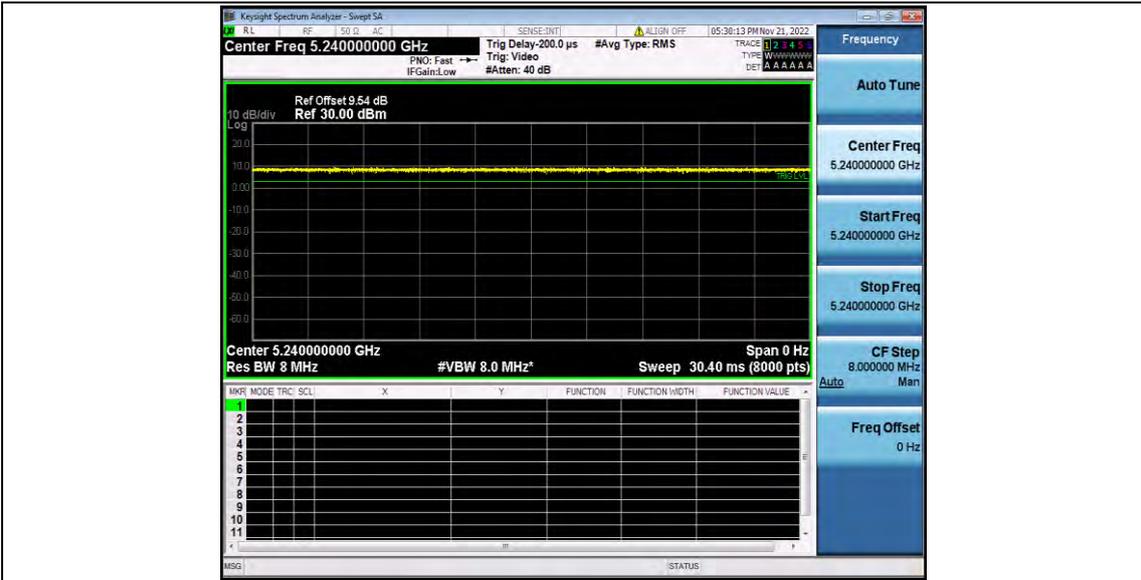
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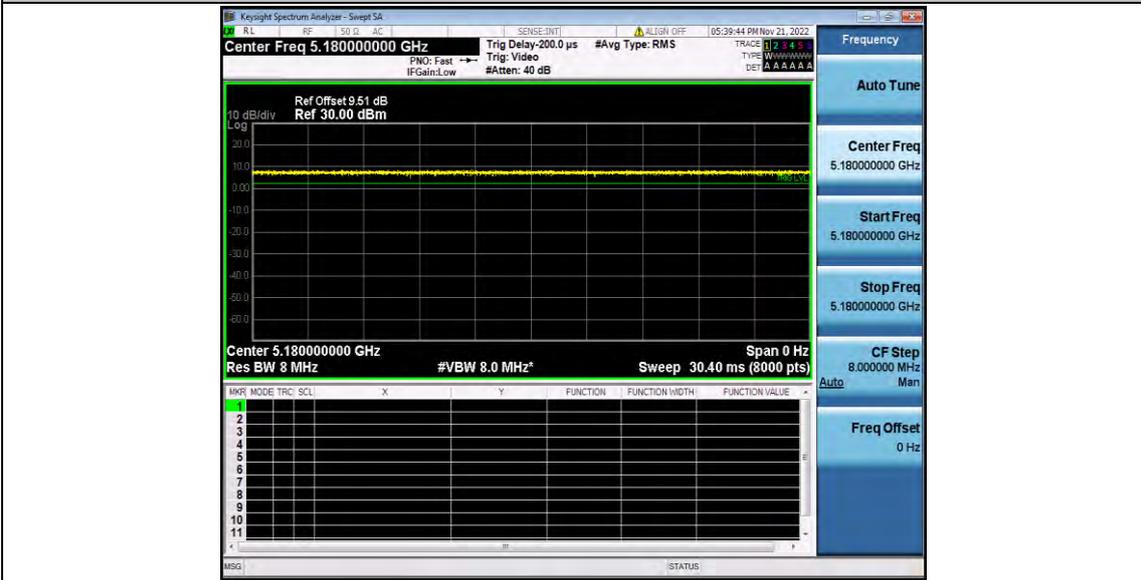
11A_Ant1_5200



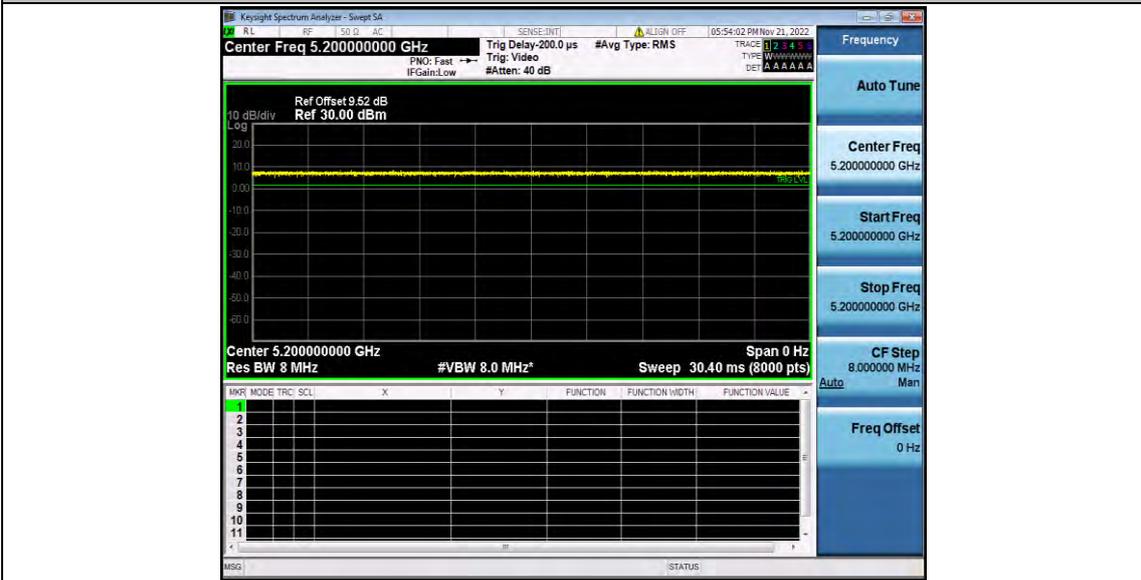
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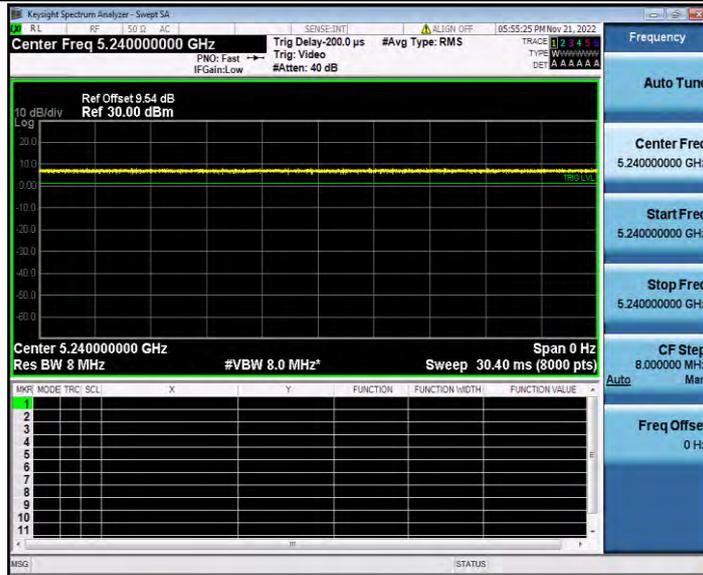
11N20SISO_Ant1_5180



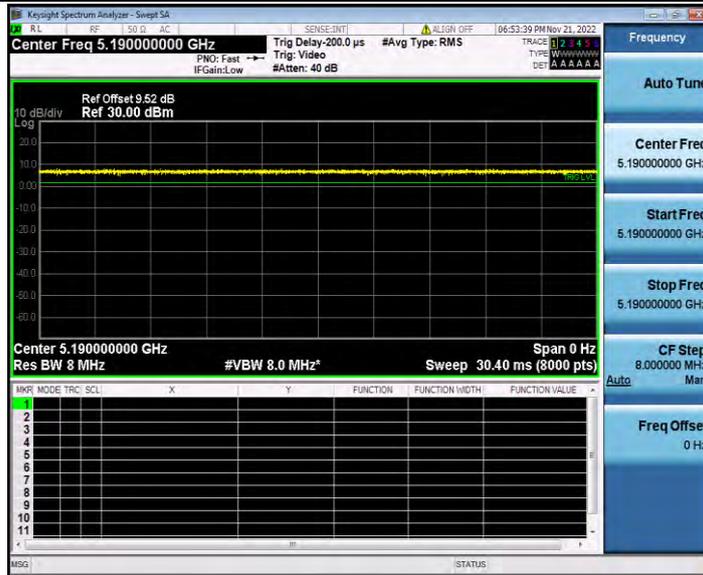
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240

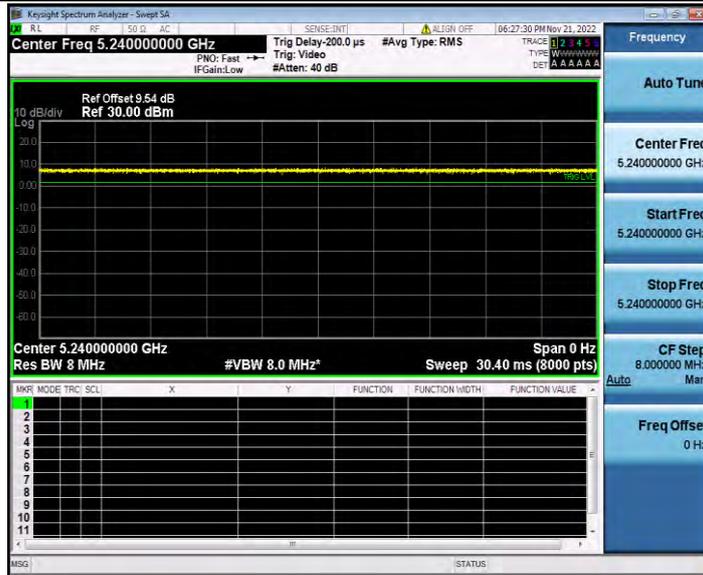


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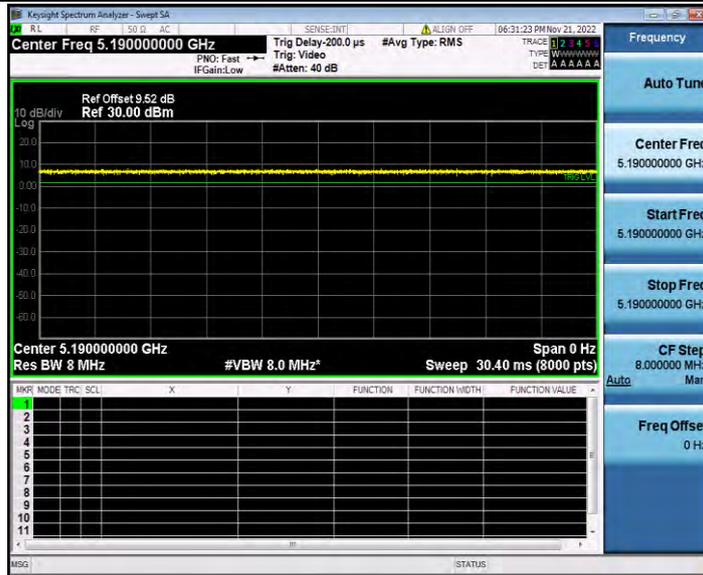


11N40SISO_Ant1_5230

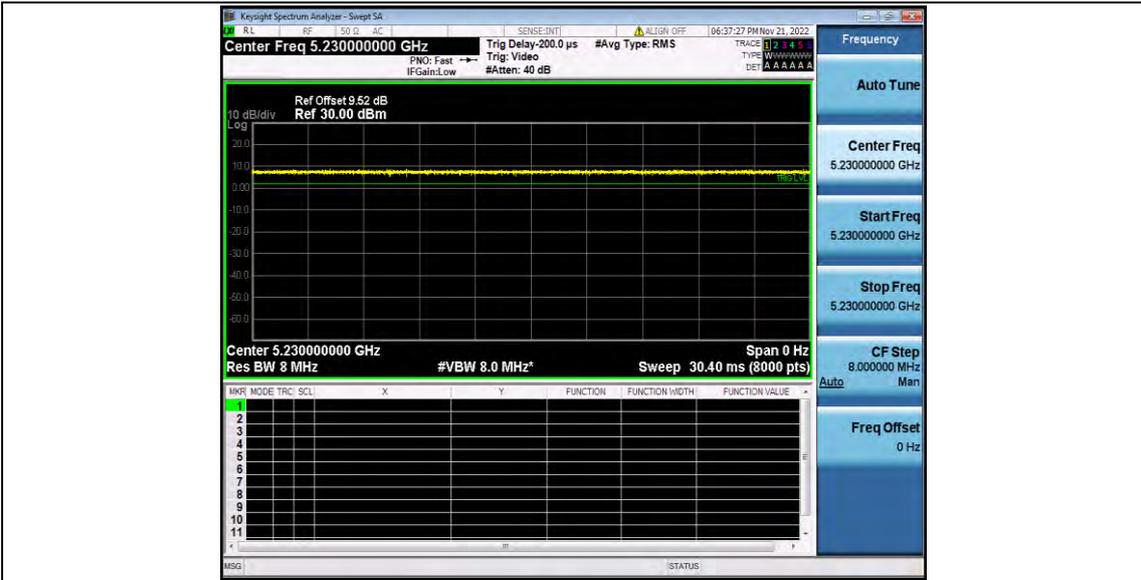
11AC20SISO_Ant1_5240



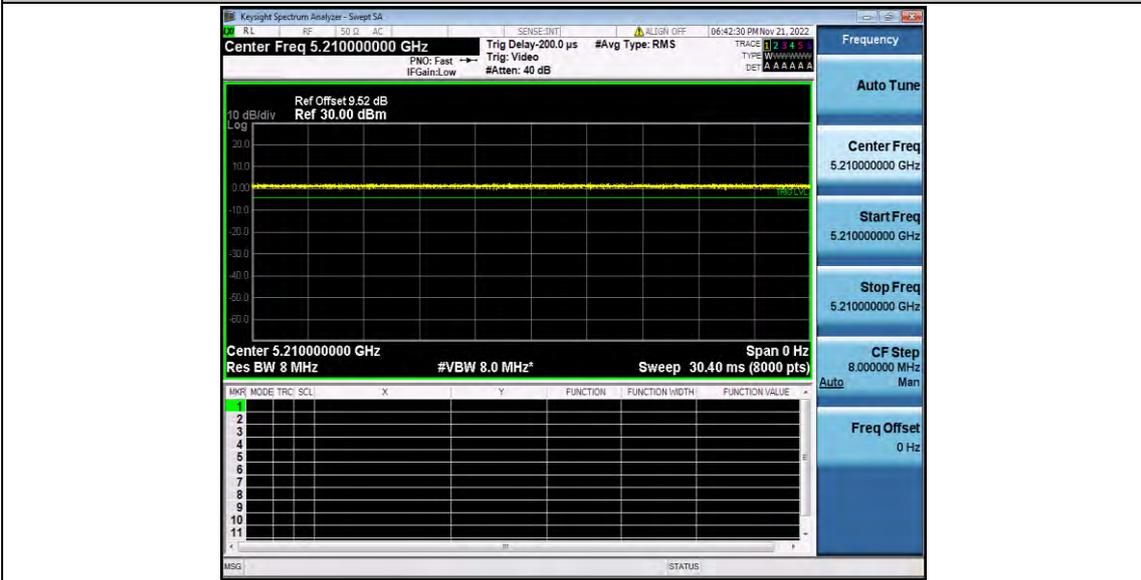
11AC40SISO_Ant1_5190



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	10.56	100.00	0.00	10.56	≤23.98	PASS
		5200	10.72	100.00	0.00	10.72	≤23.98	PASS
		5240	10.73	100.00	0.00	10.73	≤23.98	PASS
11N20SISO	Ant1	5180	9.33	100.00	0.00	9.33	≤23.98	PASS
		5200	9.76	100.00	0.00	9.76	≤23.98	PASS
		5240	9.46	100.00	0.00	9.46	≤23.98	PASS
11N40SISO	Ant1	5190	9.13	100.00	0.00	9.13	≤23.98	PASS
		5230	12.76	100.00	0.00	12.76	≤23.98	PASS
11AC20SISO	Ant1	5180	10.31	97.04	0.13	10.44	≤23.98	PASS
		5200	9.37	100.00	0.00	9.37	≤23.98	PASS
		5240	9.64	100.00	0.00	9.64	≤23.98	PASS
11AC40SISO	Ant1	5190	12.19	100.00	0.00	12.19	≤23.98	PASS
		5230	12.69	100.00	0.00	12.69	≤23.98	PASS
11AC80SISO	Ant1	5210	10.15	100.00	0.00	10.15	≤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	5.78	≤11.00	PASS
		5200	5.79	≤11.00	PASS
		5240	5.48	≤11.00	PASS
11N20SISO	Ant1	5180	4.4	≤11.00	PASS
		5200	5.35	≤11.00	PASS
		5240	5.3	≤11.00	PASS
11N40SISO	Ant1	5190	4.41	≤11.00	PASS
		5230	4.9	≤11.00	PASS
11AC20SISO	Ant1	5180	5.38	≤11.00	PASS
		5200	4.62	≤11.00	PASS
		5240	5.08	≤11.00	PASS
11AC40SISO	Ant1	5190	4.65	≤11.00	PASS
		5230	4.99	≤11.00	PASS
11AC80SISO	Ant1	5210	-1.09	≤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



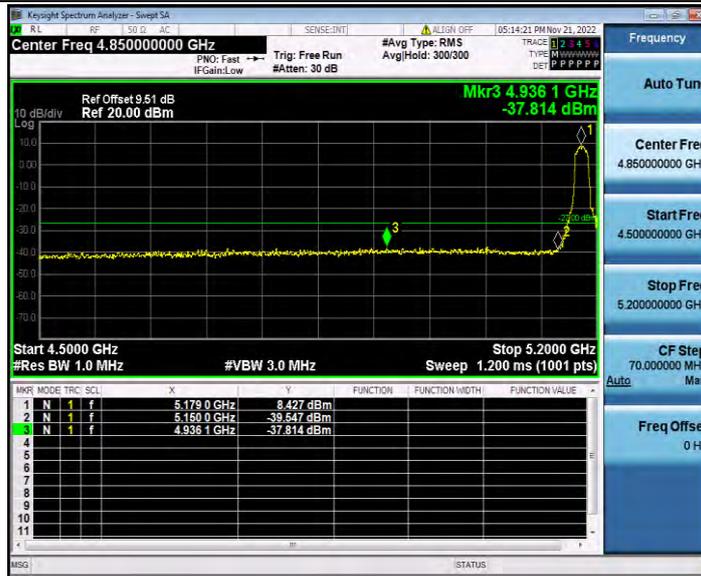
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.81	≤-27	PASS
		High	5240	-37.8	≤-27	PASS
11N20SISO	Ant1	Low	5180	-37.94	≤-27	PASS
		High	5240	-37.62	≤-27	PASS
11N40SISO	Ant1	Low	5190	-34.1	≤-27	PASS
		High	5230	-37.6	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-37.15	≤-27	PASS
		High	5240	-37.53	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-37.56	≤-27	PASS
		High	5230	-38.12	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-34.21	≤-27	PASS
		High	5210	-38.57	≤-27	PASS

Test Graphs B1

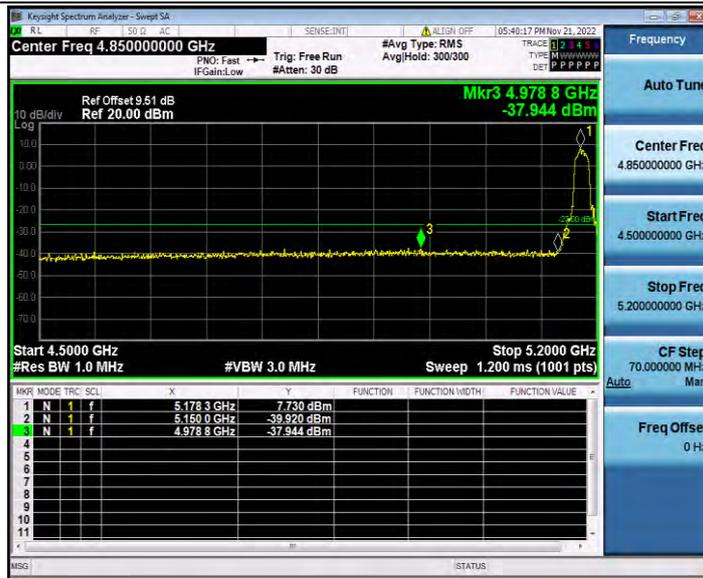
11A_Ant1_Low_5180



11A_Ant1_High_5240



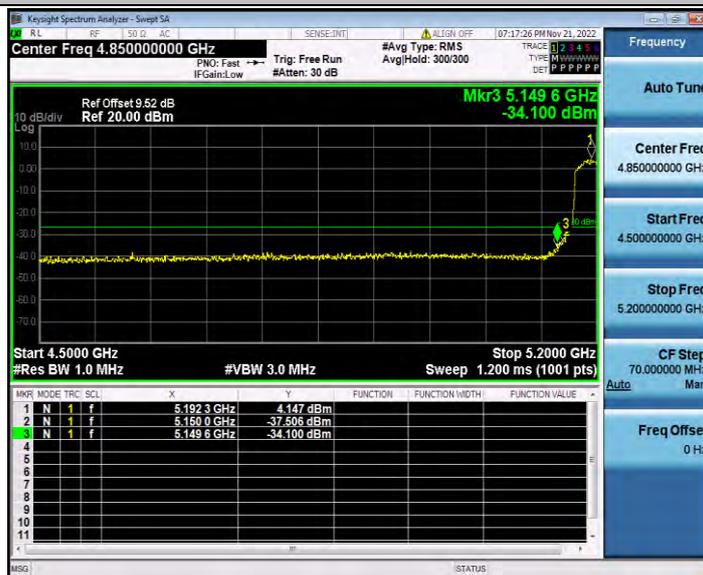
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



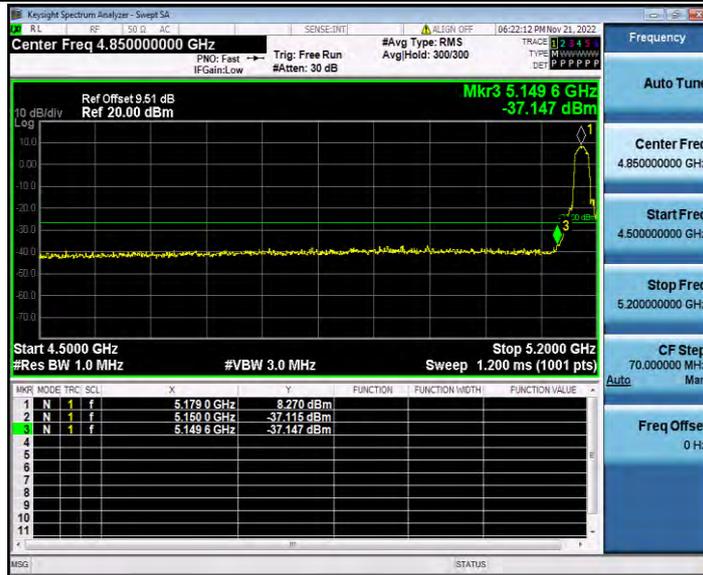
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



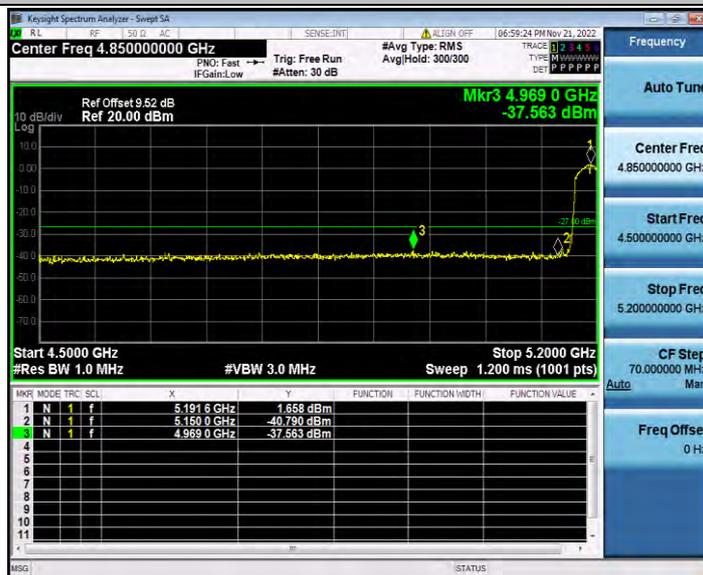
11AC20SISO_Ant1_Low_5180



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

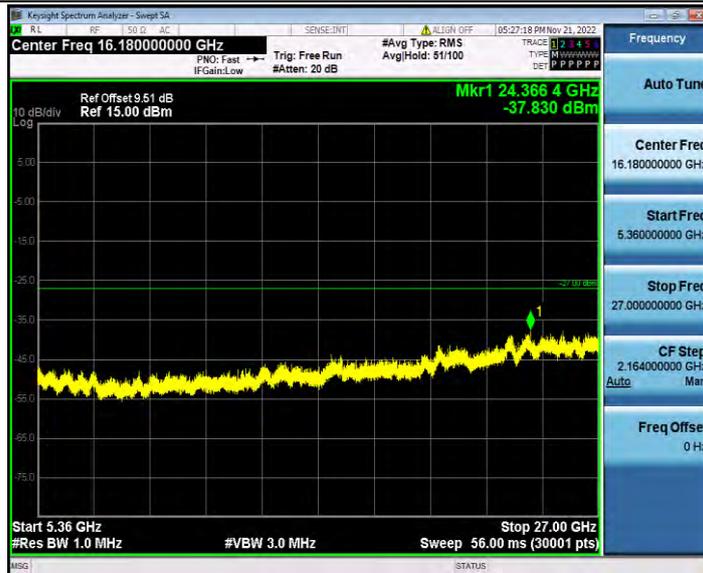
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5121.43	-46.05	≤-27	PASS
			5360~40000	24366.41	-37.83	≤-27	PASS
		5200	30~5140	5021.62	-46.37	≤-27	PASS
			5360~40000	24179.59	-37.99	≤-27	PASS
		5240	30~5140	5136.93	-46	≤-27	PASS
			5360~40000	25667.7	-38.04	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	2788.21	-46.32	≤-27	PASS
			5360~40000	26508.77	-37.44	≤-27	PASS
		5200	30~5140	5069.65	-46.63	≤-27	PASS
			5360~40000	23498.65	-37.77	≤-27	PASS
		5240	30~5140	2655.01	-46.48	≤-27	PASS
			5360~40000	24229.36	-37.39	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5139.83	-35.73	≤-27	PASS
			5360~40000	24882.89	-37.53	≤-27	PASS
		5230	30~5140	5123.82	-46.08	≤-27	PASS
			5360~40000	26545.56	-37.67	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5093.5	-45.86	≤-27	PASS
			5360~40000	26755.47	-38.16	≤-27	PASS
		5200	30~5140	3060.23	-46.24	≤-27	PASS
			5360~40000	23472.68	-37.96	≤-27	PASS
		5240	30~5140	4983.12	-46.65	≤-27	PASS
			5360~40000	24240.9	-37.93	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5139.15	-35.6	≤-27	PASS
			5360~40000	24846.82	-37.49	≤-27	PASS
		5230	30~5140	5137.96	-44.09	≤-27	PASS
			5360~40000	24828.07	-37.69	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5136.93	-34.14	≤-27	PASS
			5360~40000	23585.21	-37.67	≤-27	PASS

Test Graphs

11A_Ant1_5180_30~5140



11A_Ant1_5180_5360~40000



11A_Ant1_5200_30~5140



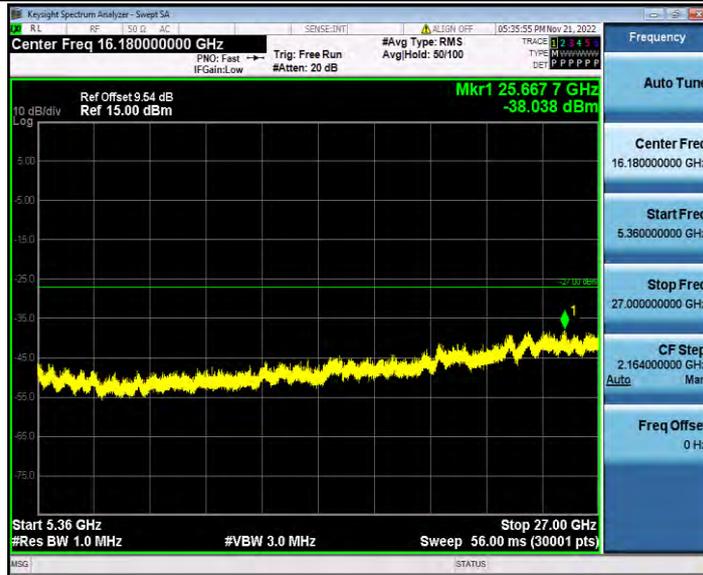
11A_Ant1_5200_5360~40000



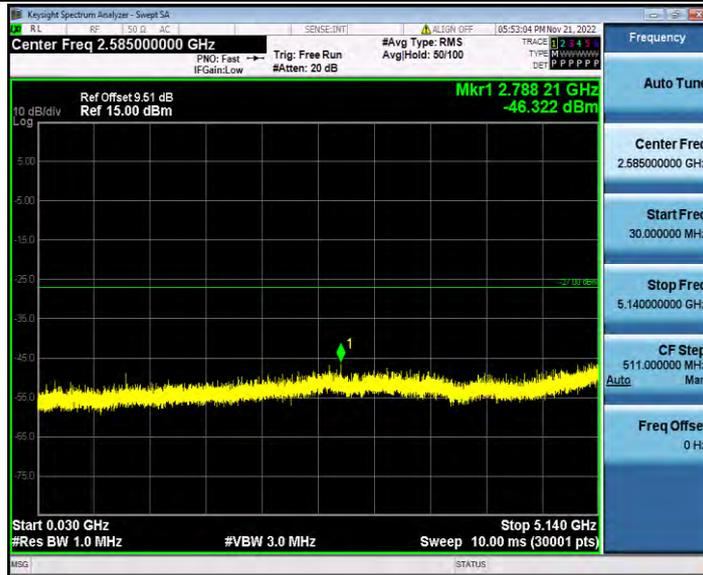
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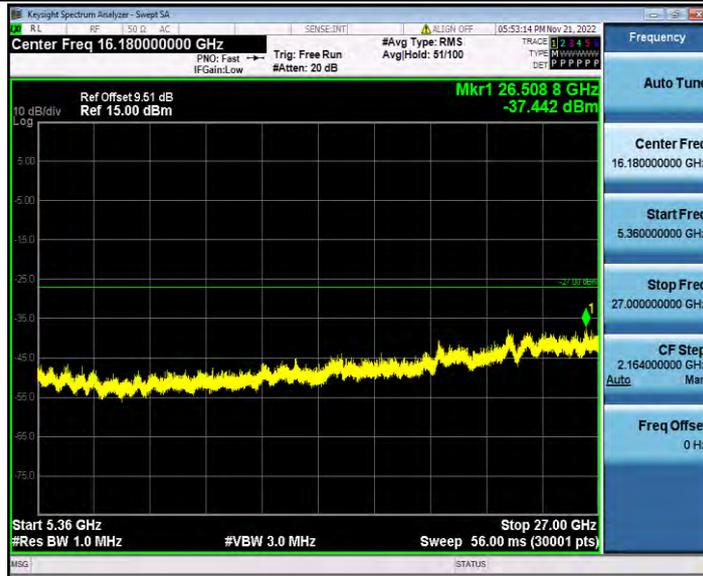
11A_Ant1_5240_5360~40000



11N20SISO_Ant1_5180_30~5140



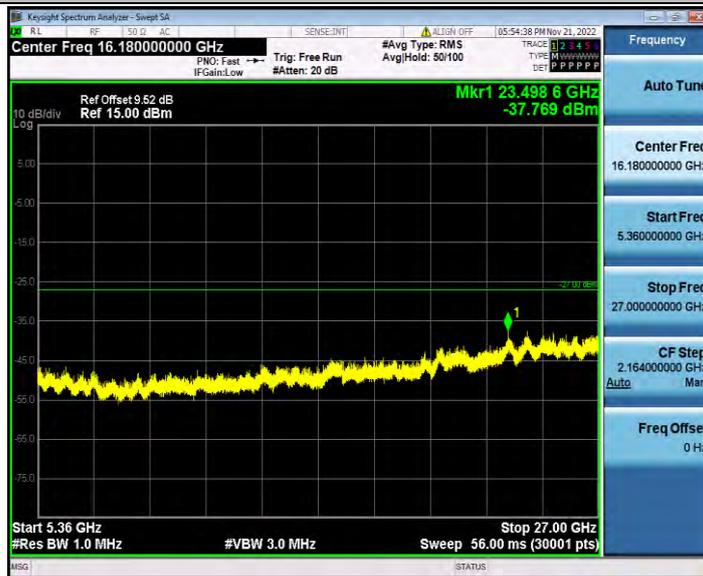
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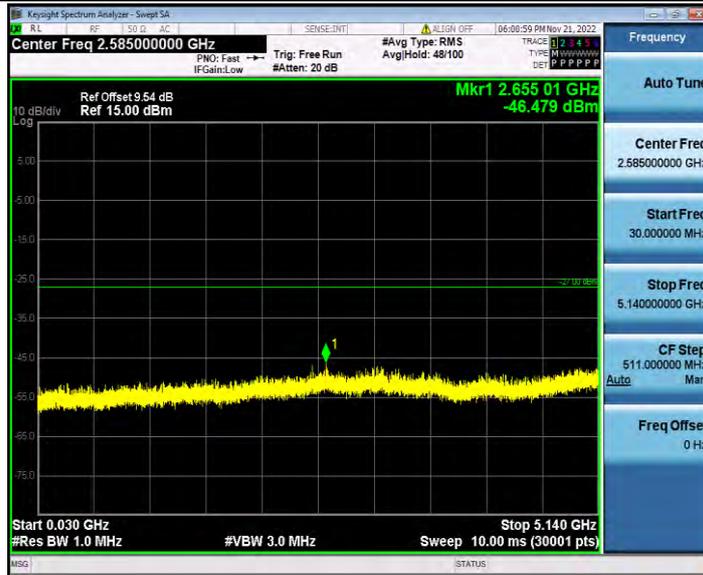
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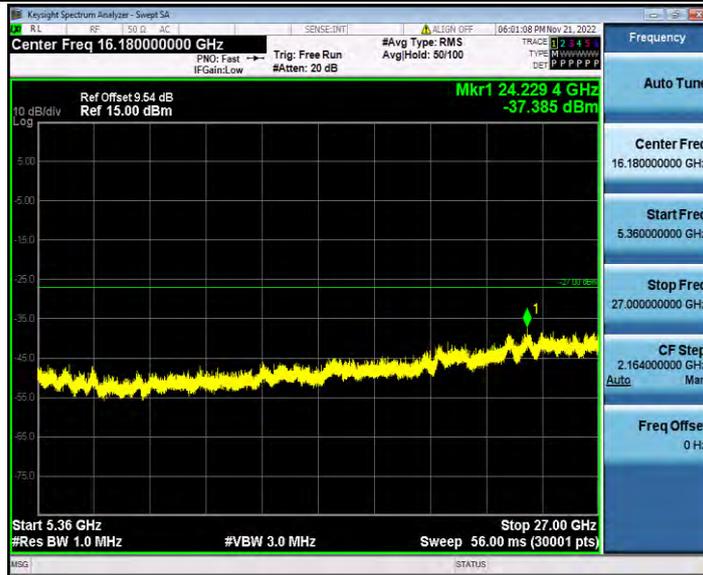
11N20SISO_Ant1_5200_5360~40000



11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~40000



11N40SISO_Ant1_5190_30~5140



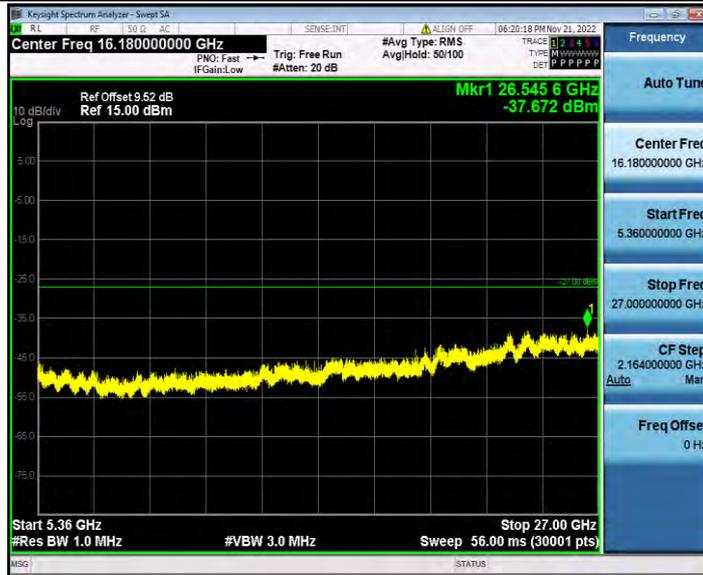
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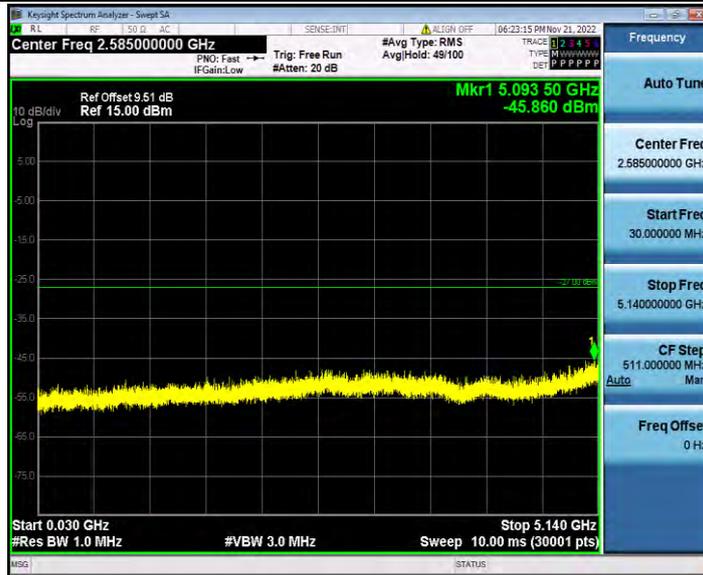
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11N40SISO_Ant1_5230_5360~40000



11AC20SISO_Ant1_5180_30~5140



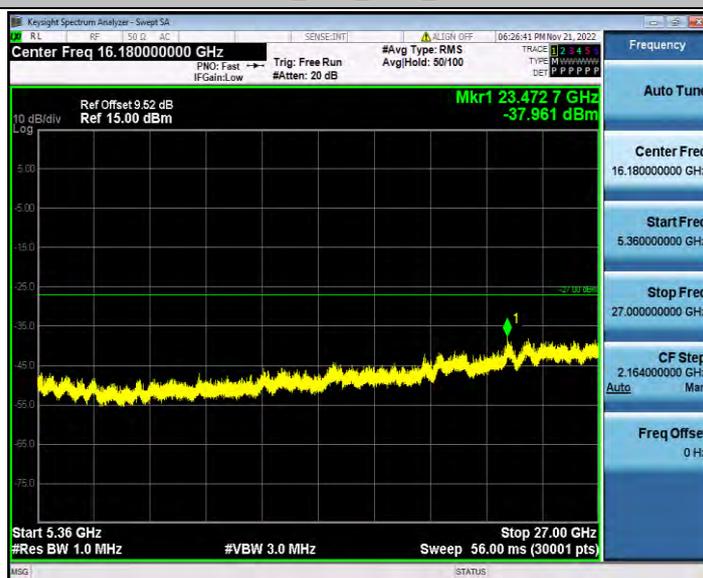
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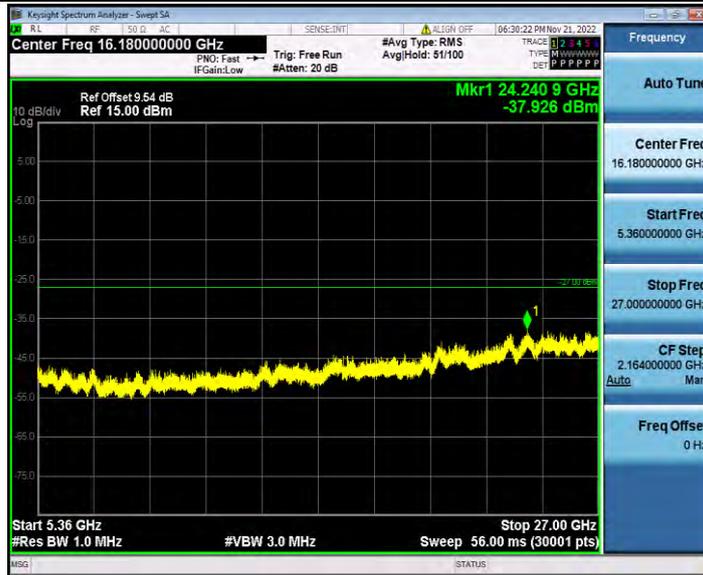
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11AC20SISO_Ant1_5240_30~5140



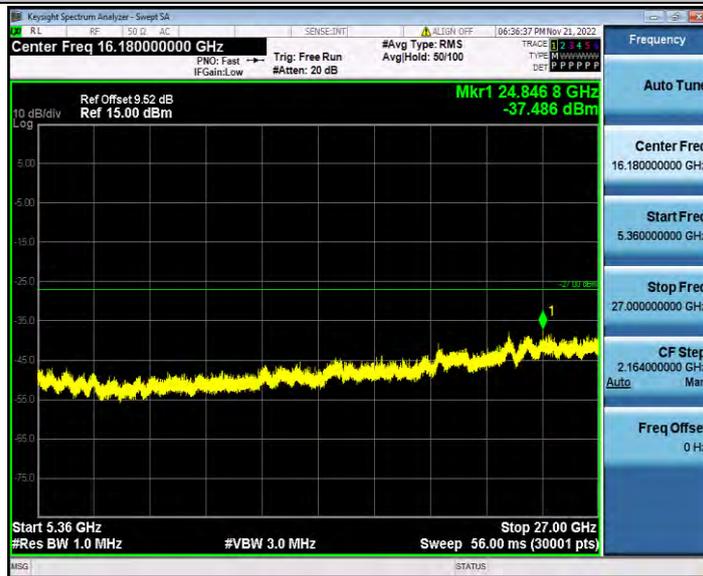
11AC20SISO_Ant1_5240_5360~40000



11AC40SISO_Ant1_5190_30~5140



11AC40SISO_Ant1_5190_5360~4000



11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000

