

<b>Case No. :</b> <u>GTS20221215006-1-4</u>
<b>Ambient Condition:</b> <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2022.12.28</u> <b>Test Engineer:</b> <u>Jenny zeng</u>

## Appendix E.1: Emission Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	20.280	5250.120	5270.400	---	---
		5280	25.160	5268.080	5293.240	---	---
		5320	20.920	5310.240	5331.160	---	---
11N20SISO	Ant1	5260	21.800	5249.720	5271.520	---	---
		5280	20.320	5270.040	5290.360	---	---
		5320	21.840	5309.880	5331.720	---	---
11N40SISO	Ant1	5270	47.040	5249.040	5296.080	---	---
		5310	44.480	5289.920	5334.400	---	---
11AC20SISO	Ant1	5260	21.240	5249.600	5270.840	---	---
		5280	23.120	5269.880	5293.000	---	---
		5320	22.000	5309.760	5331.760	---	---
11AC40SISO	Ant1	5270	40.800	5249.840	5290.640	---	---
		5310	40.720	5289.920	5330.640	---	---
11AC80SISO	Ant1	5290	80.960	5249.680	5330.640	---	---

# Test Graphs

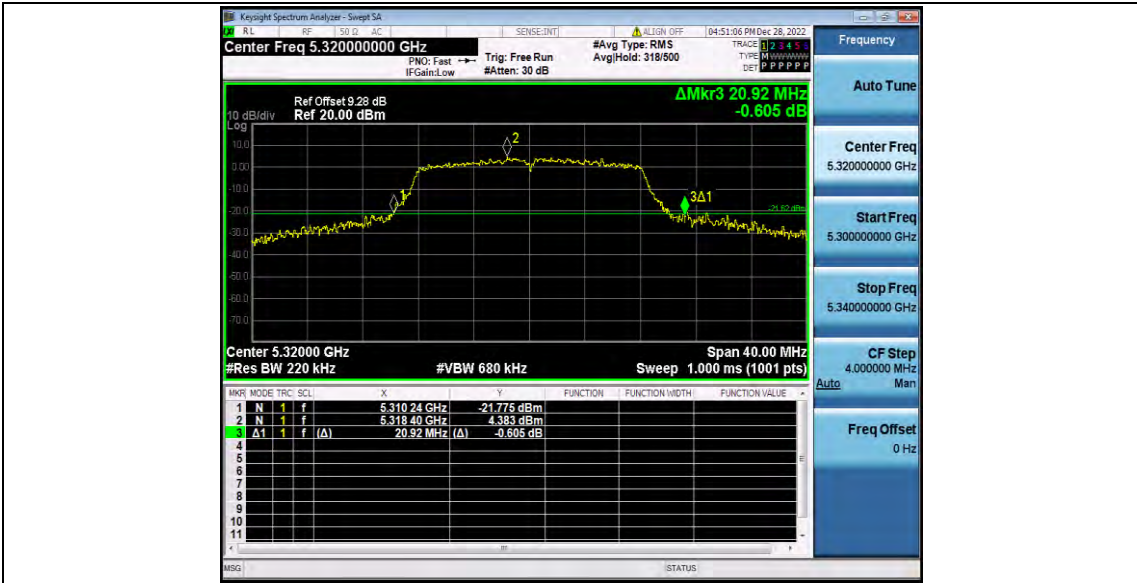
11A\_Ant1\_5260



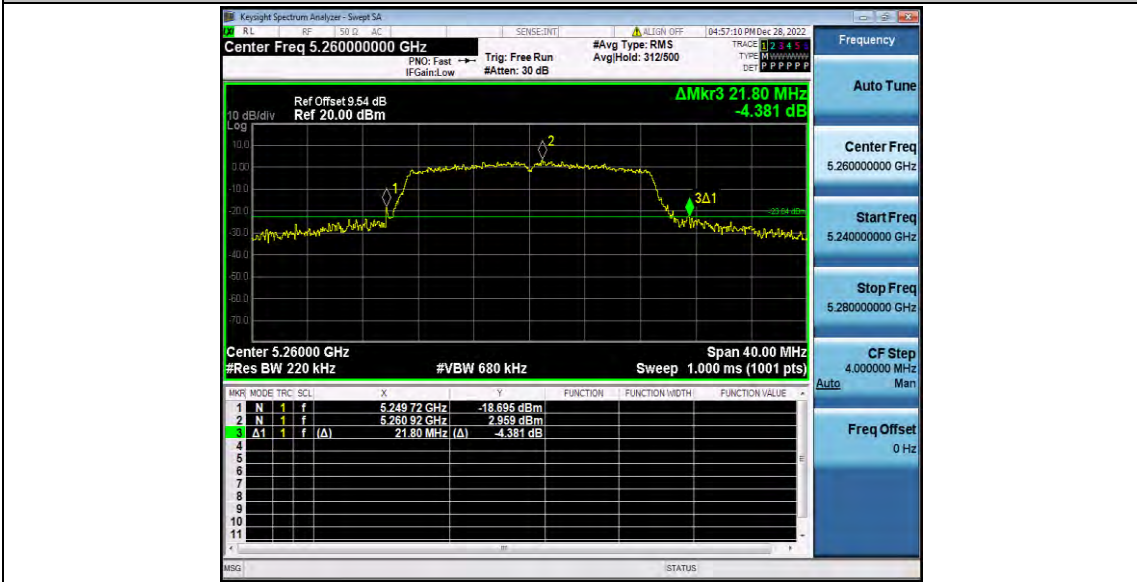
11A\_Ant1\_5280



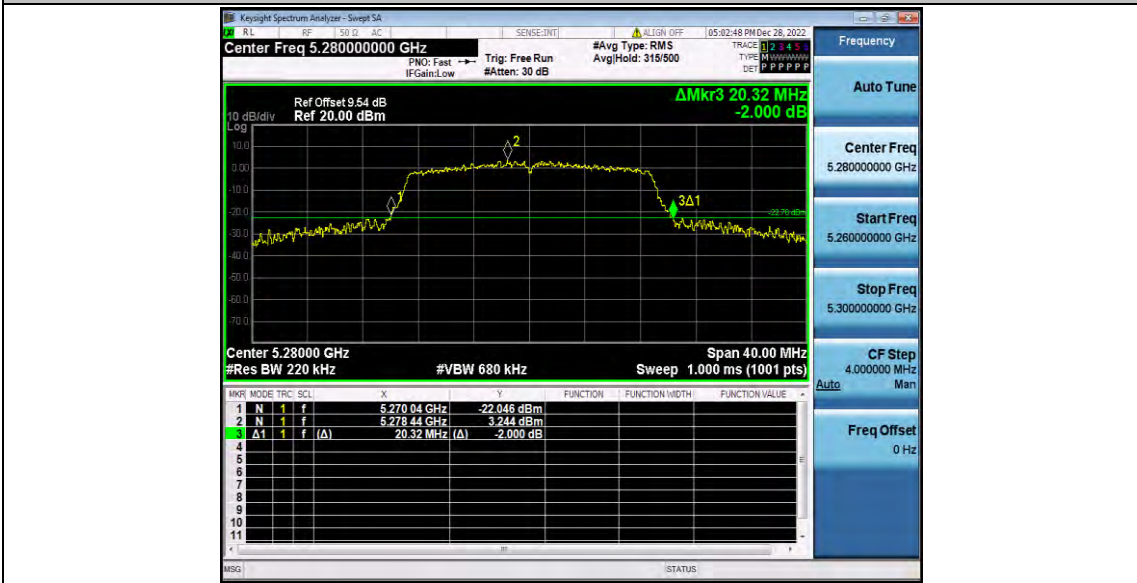
11A\_Ant1\_5320



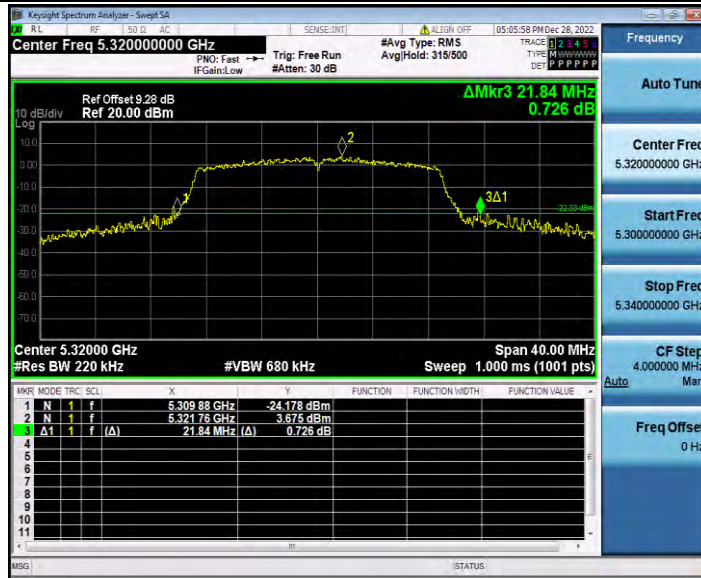
11N20SISO\_Ant1\_5260



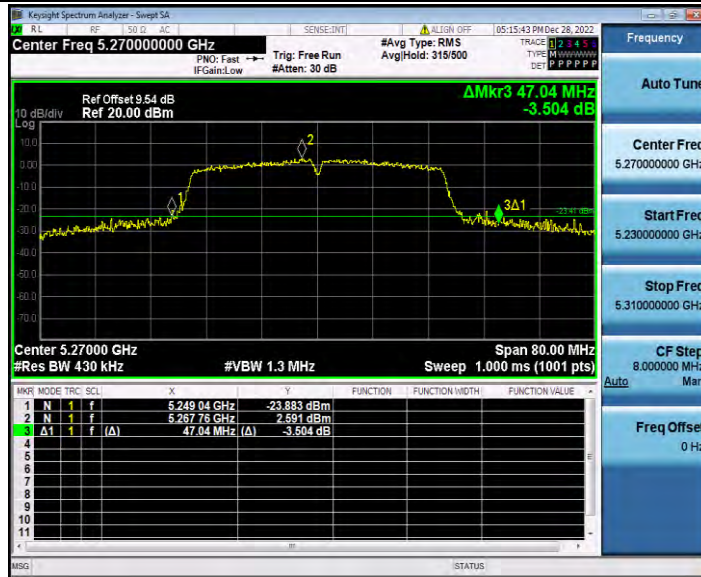
11N20SISO\_Ant1\_5280



11N20SISO\_Ant1\_5320

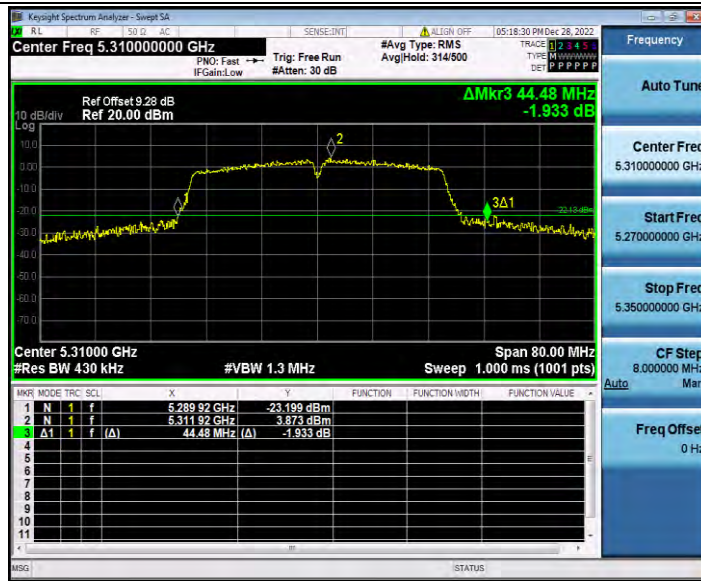


11N40SISO\_Ant1\_5270



11N40SISO\_Ant1\_5310





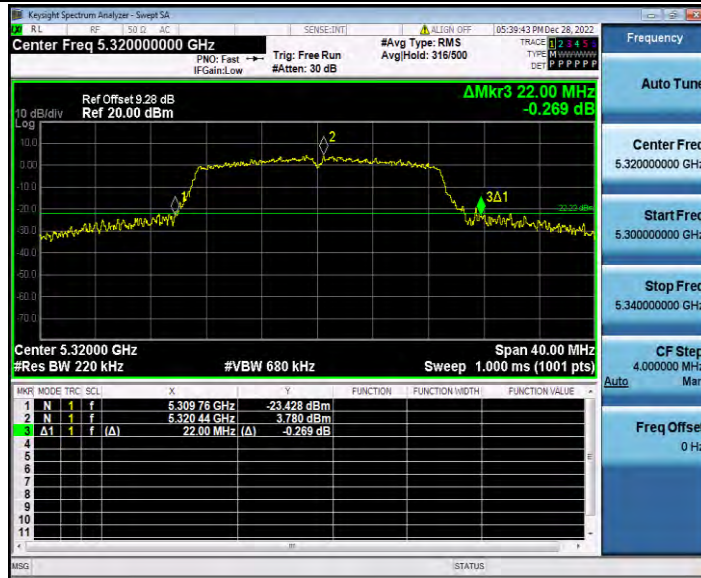
11AC20SISO\_Ant1\_5260



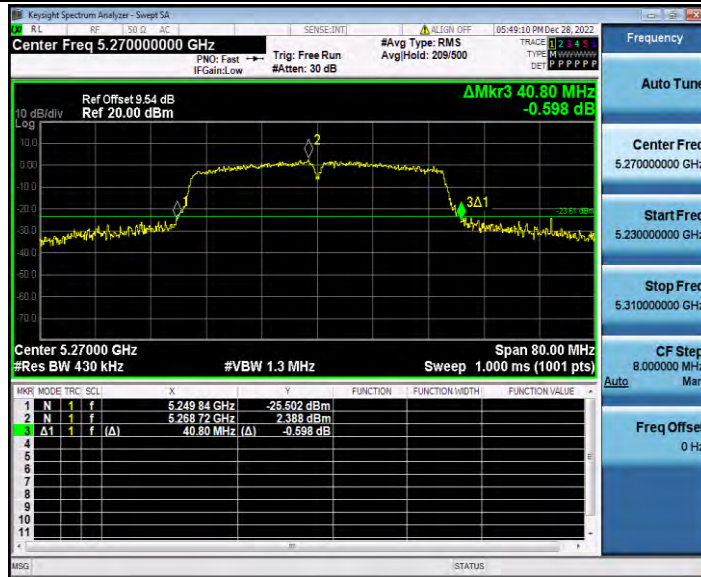
11AC20SISO\_Ant1\_5280



11AC20SISO\_Ant1\_5320



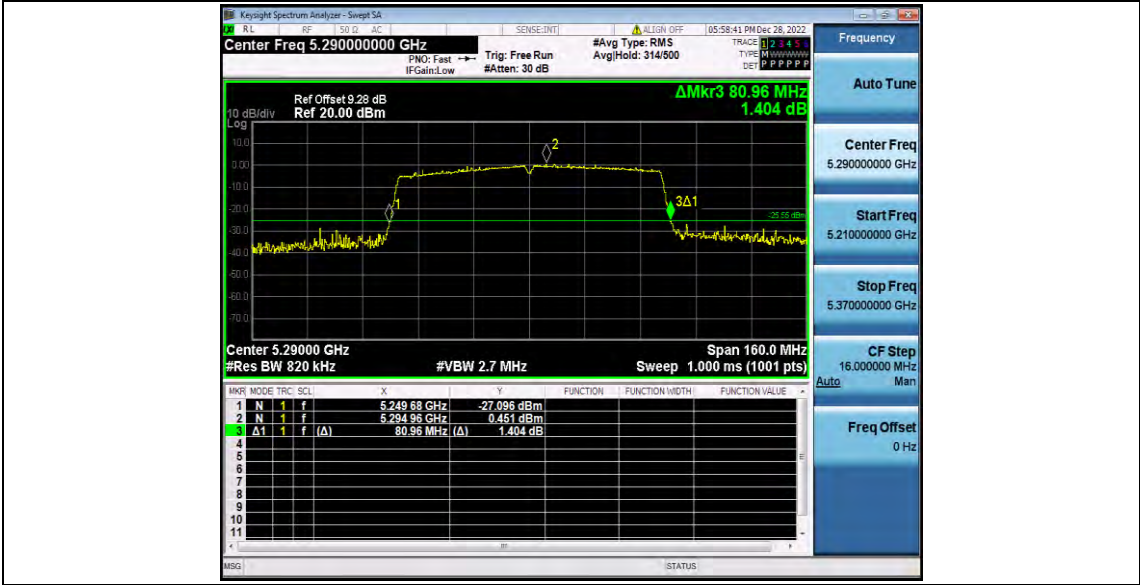
11AC40SISO\_Ant1\_5270



11AC40SISO\_Ant1\_5310



11AC80SISO\_Ant1\_5290



## Appendix E.2: Occupied channel bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	17.196	5251.467	5268.663	---	---
		5280	17.044	5271.602	5288.646	---	---
		5320	17.116	5311.580	5328.696	---	---
11N20SISO	Ant1	5260	18.053	5251.033	5269.086	---	---
		5280	18.018	5271.075	5289.093	---	---
		5320	17.954	5311.116	5329.070	---	---
11N40SISO	Ant1	5270	36.604	5251.839	5288.443	---	---
		5310	36.396	5292.028	5328.424	---	---
11AC20SISO	Ant1	5260	18.017	5251.063	5269.080	---	---
		5280	18.089	5271.045	5289.134	---	---
		5320	18.012	5311.098	5329.110	---	---
11AC40SISO	Ant1	5270	36.529	5251.865	5288.394	---	---
		5310	36.434	5291.982	5328.416	---	---
11AC80SISO	Ant1	5290	75.380	5252.661	5328.041	---	---

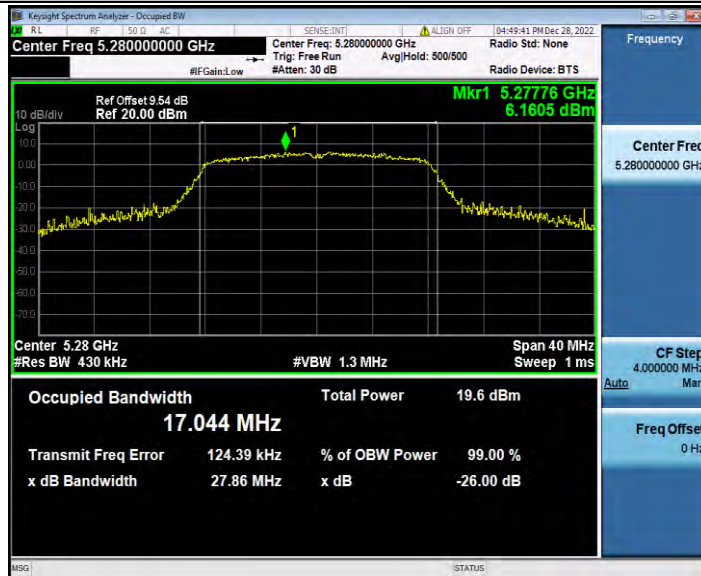


# Test Graphs

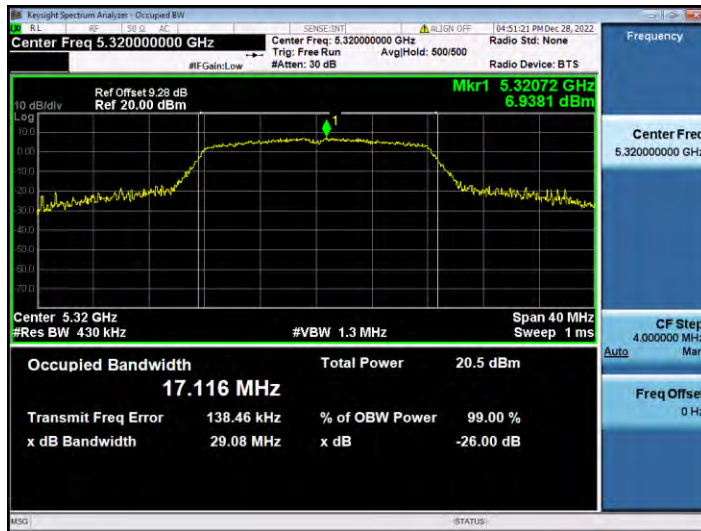
11A\_Ant1\_5260



11A\_Ant1\_5280



11A\_Ant1\_5320



11N20SISO\_Ant1\_5260



11N20SISO\_Ant1\_5280



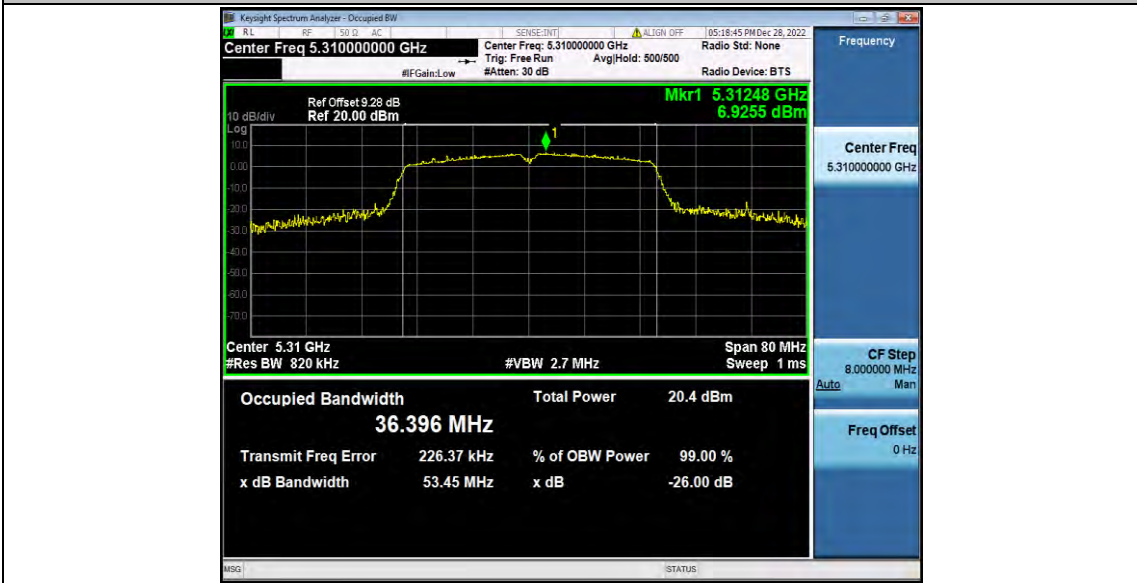
11N20SISO\_Ant1\_5320



11N40SISO\_Ant1\_5270



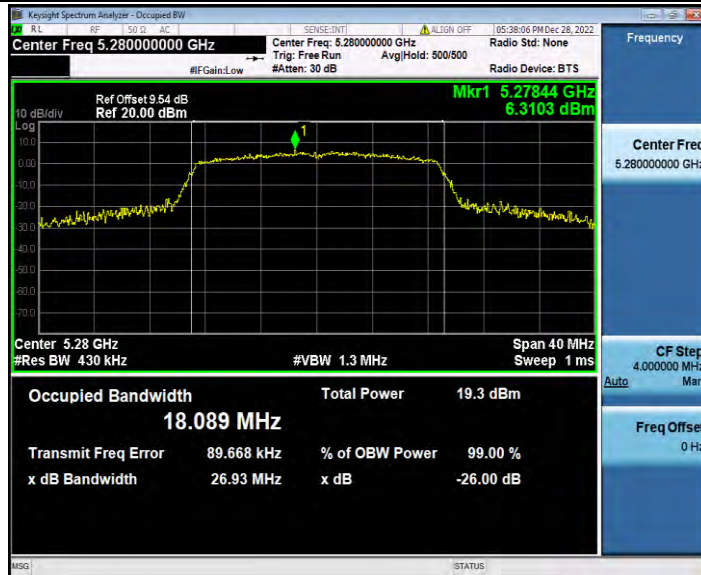
11N40SISO\_Ant1\_5310



11AC20SISO\_Ant1\_5260



11AC20SISO\_Ant1\_5280



11AC20SISO\_Ant1\_5320





11AC40SISO\_Ant1\_5270



11AC40SISO\_Ant1\_5310





11AC80SISO\_Ant1\_5290



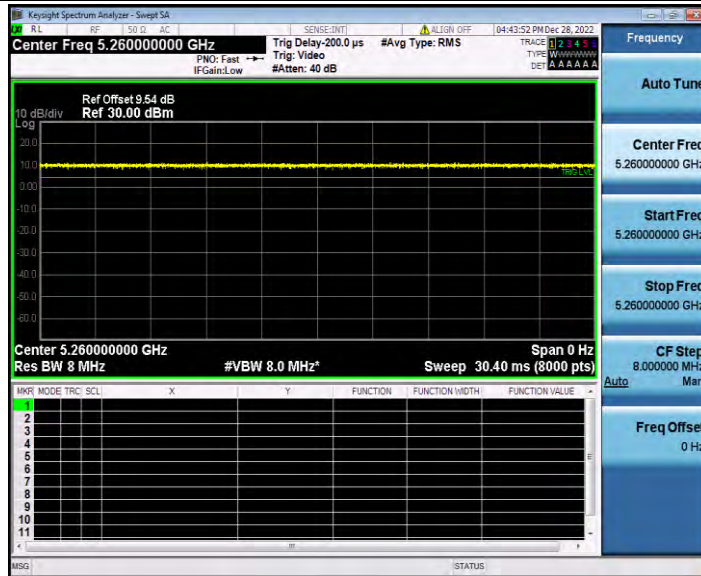
## Appendix E.3: Duty Cycle

### Test Result

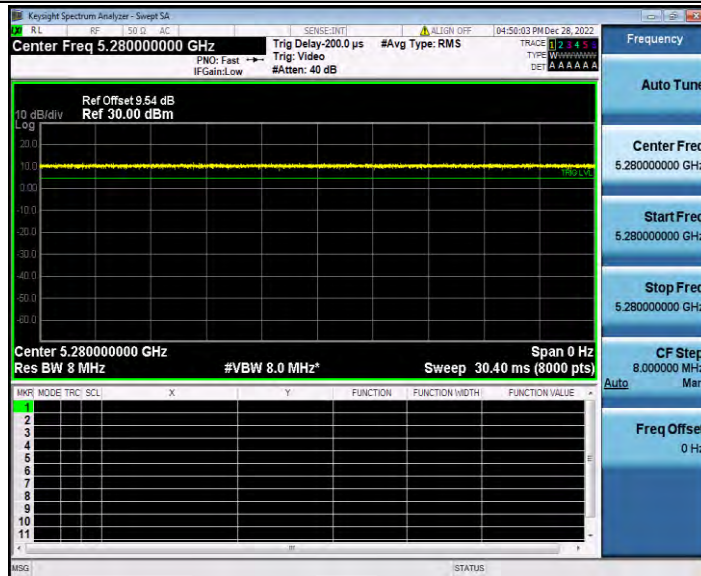
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5260	30.00	30.00	100.00
		5280	30.00	30.00	100.00
		5320	30.00	30.00	100.00
11N20SISO	Ant1	5260	30.00	30.00	100.00
		5280	30.00	30.00	100.00
		5320	30.00	30.00	100.00
11N40SISO	Ant1	5270	30.00	30.00	100.00
		5310	30.00	30.00	100.00
11AC20SISO	Ant1	5260	30.00	30.00	100.00
		5280	30.00	30.00	100.00
		5320	30.00	30.00	100.00
11AC40SISO	Ant1	5270	30.00	30.00	100.00
		5310	30.00	30.00	100.00
11AC80SISO	Ant1	5290	30.00	30.00	100.00

# Test Graphs

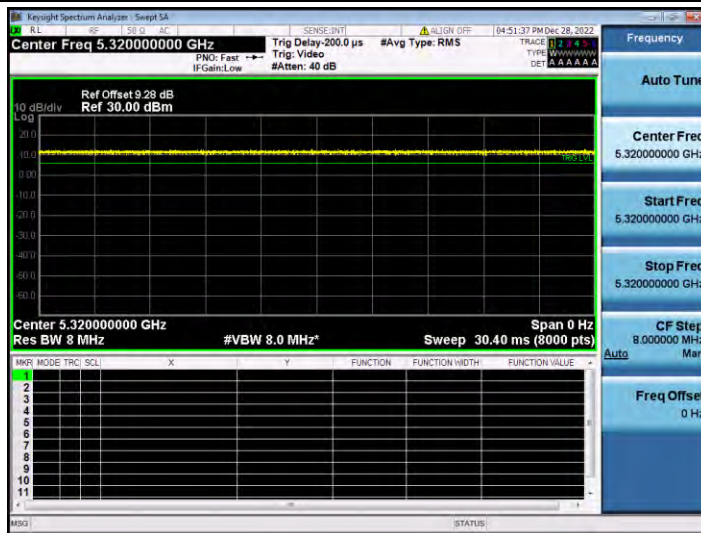
11A\_Ant1\_5260



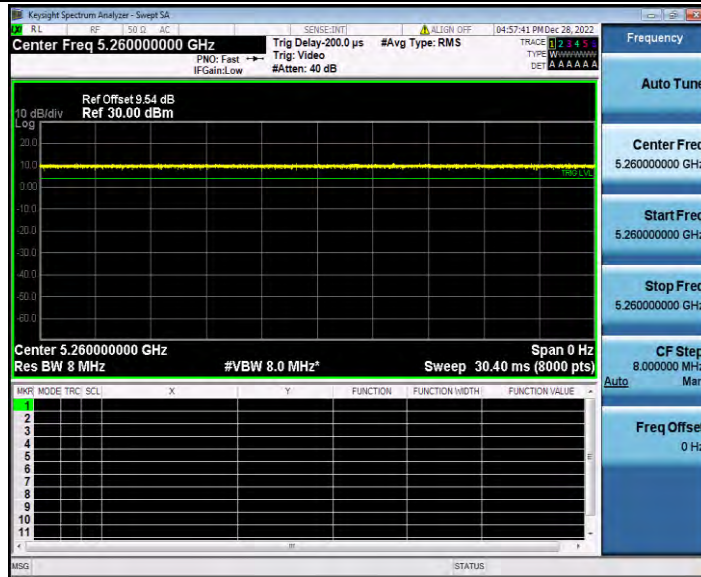
11A\_Ant1\_5280



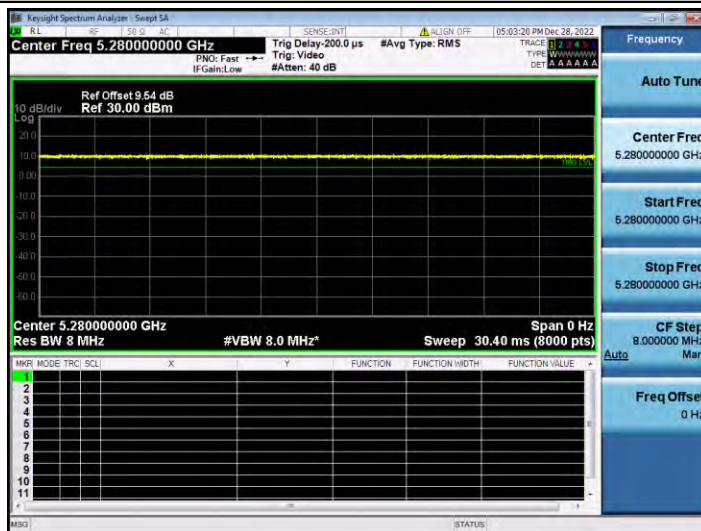
11A\_Ant1\_5320



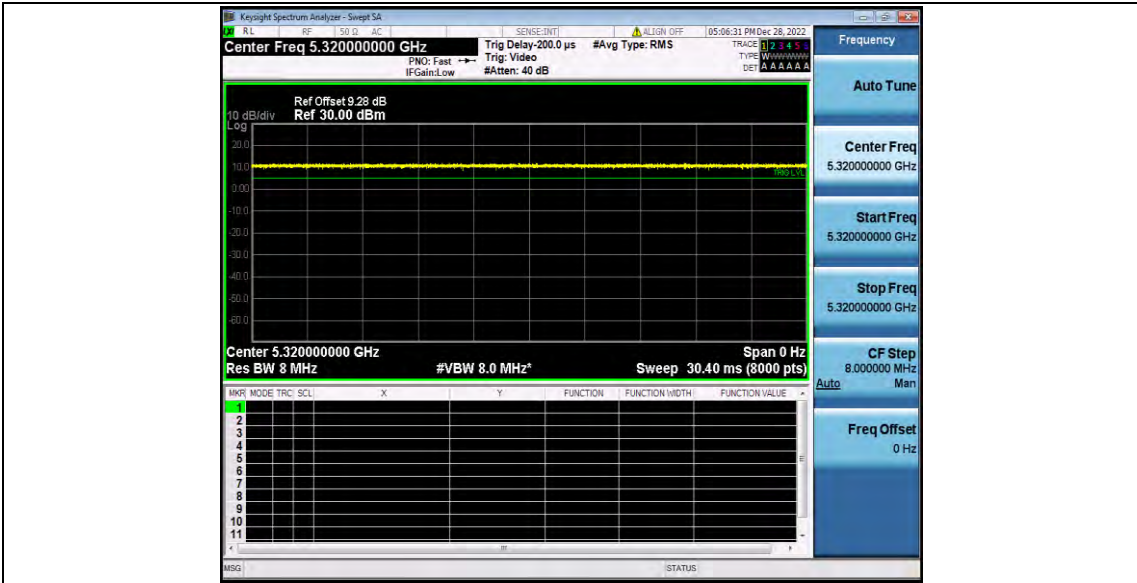
11N20SISO\_Ant1\_5260



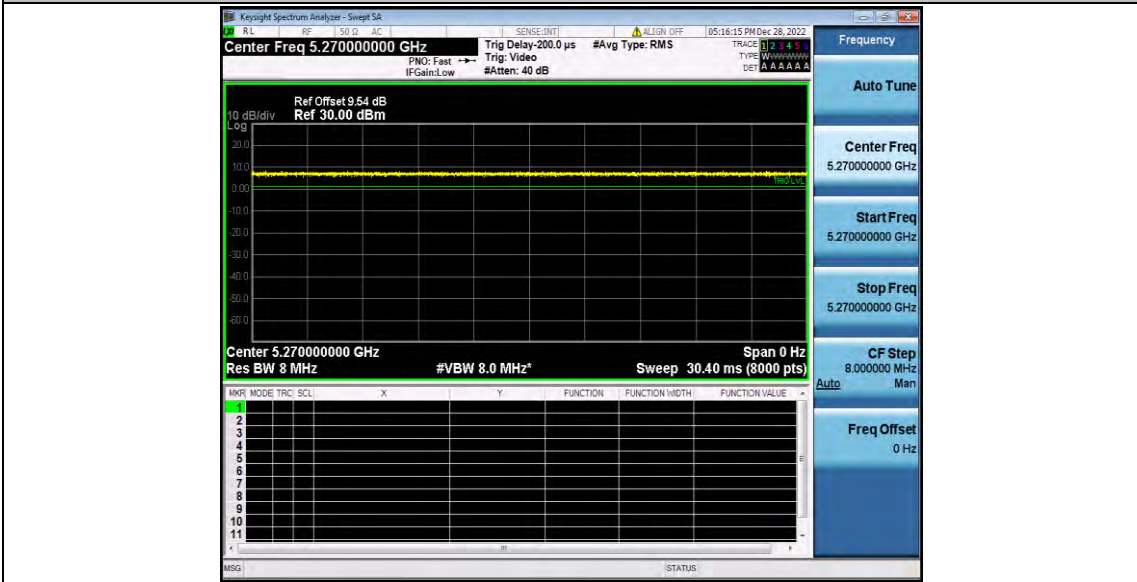
11N20SISO\_Ant1\_5280



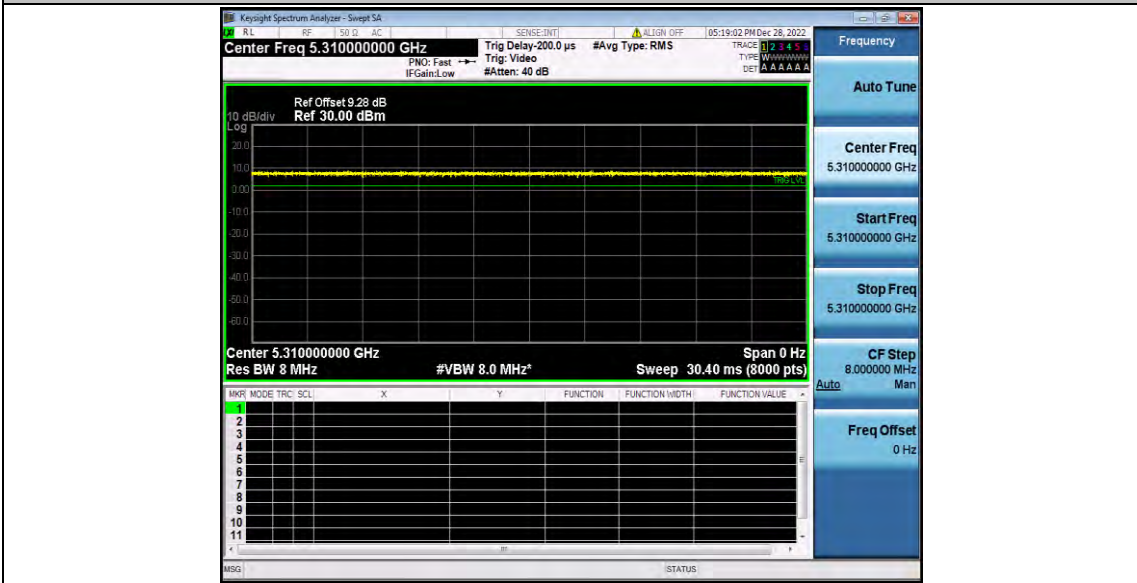
11N20SISO\_Ant1\_5320



11N40SISO\_Ant1\_5270

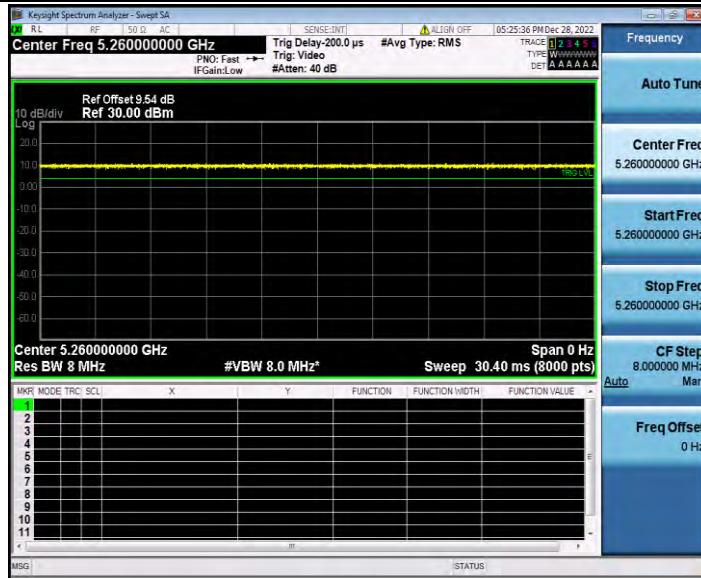


11N40SISO\_Ant1\_5310

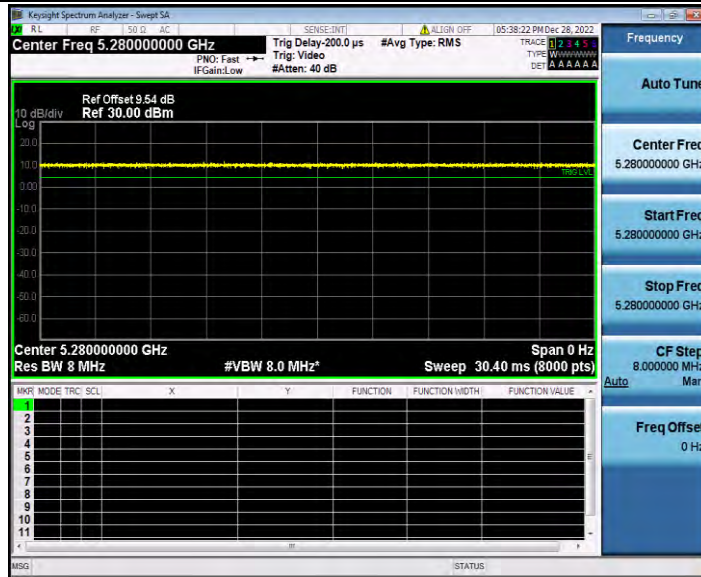




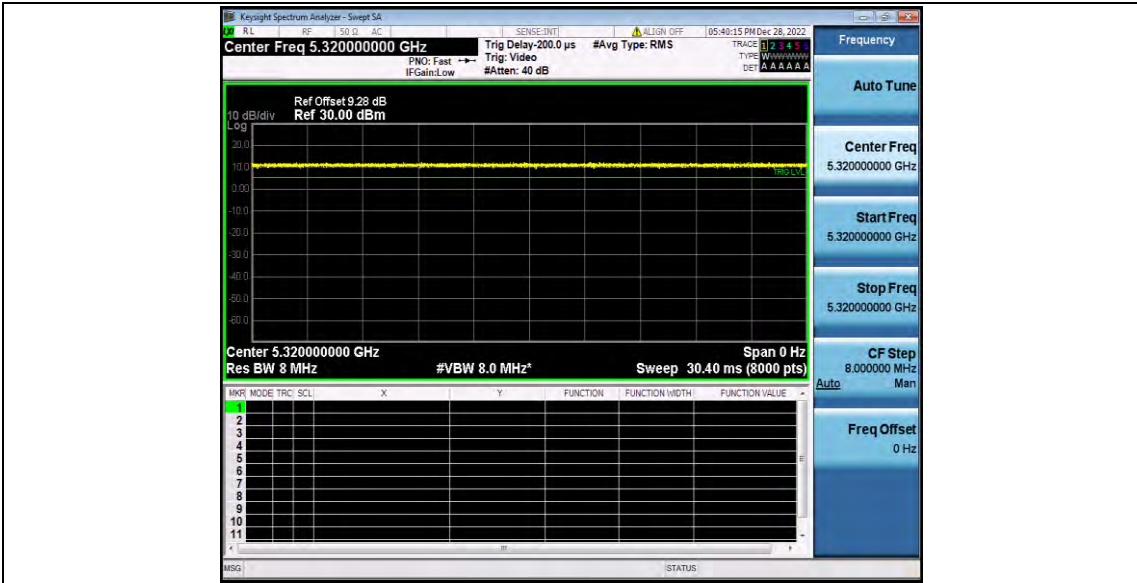
11AC20SISO\_Ant1\_5260



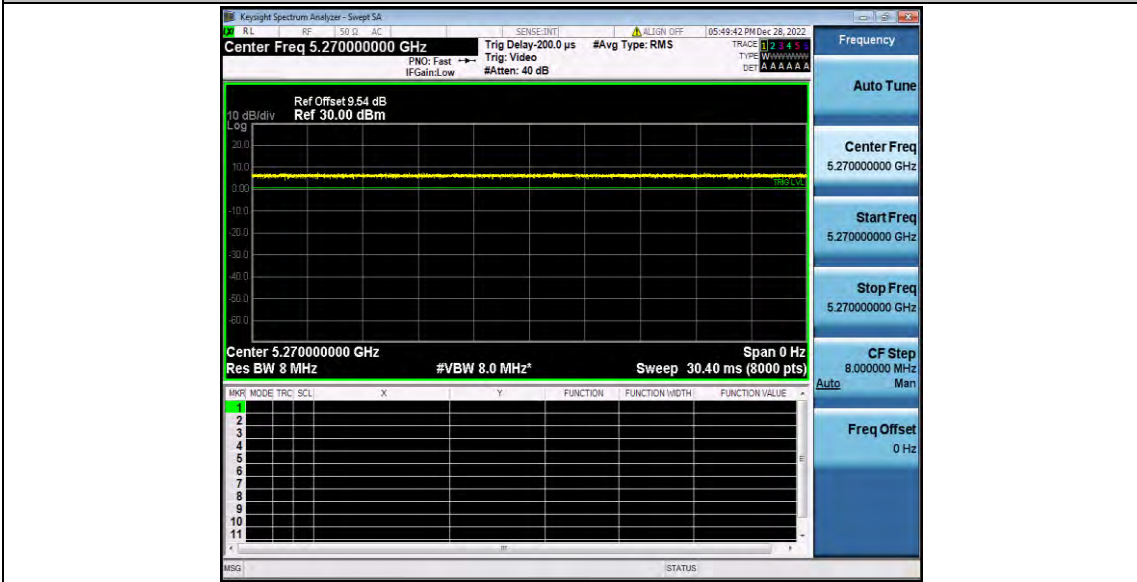
11AC20SISO\_Ant1\_5280



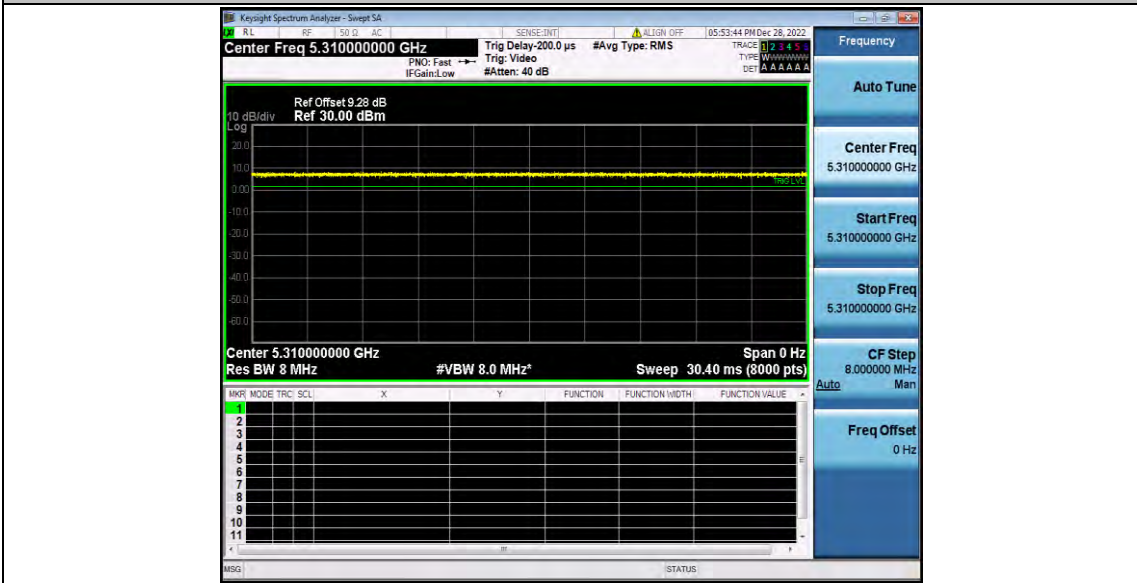
11AC20SISO\_Ant1\_5320



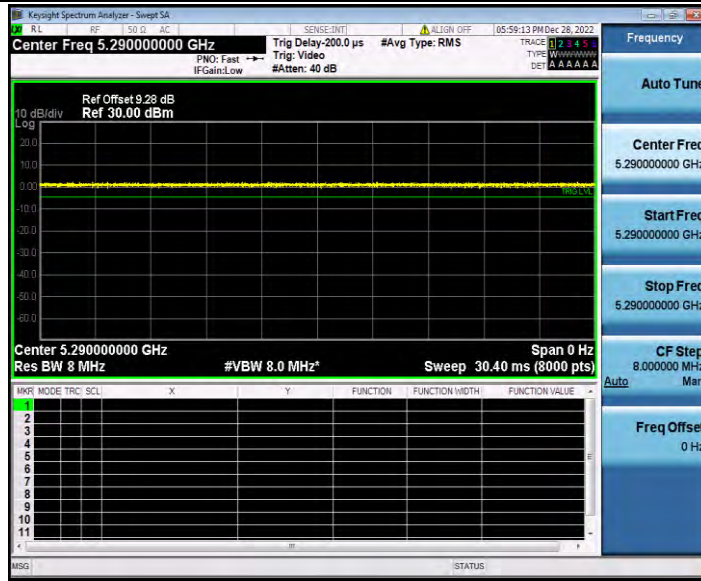
11AC40SISO\_Ant1\_5270



11AC40SISO\_Ant1\_5310



11AC80SISO\_Ant1\_5290



Frequency

Auto Tune

Center Freq  
5.290000000 GHz

Start Freq  
5.290000000 GHz

Stop Freq  
5.290000000 GHz

CF Step  
8.000000 MHz  
Auto Man

Freq Offset  
0 Hz

## Appendix E.4: Maximum conducted output power

### Test Result Channel Power

Test Mode	Antenna	Frequency[ MHz]	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	7.41	100.00	0.00	7.41	≤23.98	PASS
		5280	7.70	100.00	0.00	7.70	≤23.98	PASS
		5320	7.69	100.00	0.00	7.69	≤23.98	PASS
11N20SISO	Ant1	5260	7.18	100.00	0.00	7.18	≤23.98	PASS
		5280	7.39	100.00	0.00	7.39	≤23.98	PASS
		5320	7.23	100.00	0.00	7.23	≤23.98	PASS
11N40SISO	Ant1	5270	7.45	100.00	0.00	7.45	≤23.98	PASS
		5310	7.02	100.00	0.00	7.02	≤23.98	PASS
11AC20SIS O	Ant1	5260	7.24	100.00	0.00	7.24	≤23.98	PASS
		5280	7.45	100.00	0.00	7.45	≤23.98	PASS
		5320	7.34	100.00	0.00	7.34	≤23.98	PASS
11AC40SIS O	Ant1	5270	7.47	100.00	0.00	7.47	≤23.98	PASS
		5310	7.43	100.00	0.00	7.43	≤23.98	PASS
11AC80SIS O	Ant1	5290	7.00	100.00	0.00	7.00	≤23.98	PASS

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

## Appendix E.5: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	1.75	≤11.00	PASS
		5280	2.16	≤11.00	PASS
		5320	3.06	≤11.00	PASS
11N20SISO	Ant1	5260	1.39	≤11.00	PASS
		5280	1.63	≤11.00	PASS
		5320	2.53	≤11.00	PASS
11N40SISO	Ant1	5270	-1.08	≤11.00	PASS
		5310	-0.4	≤11.00	PASS
11AC20SISO	Ant1	5260	1.45	≤11.00	PASS
		5280	1.86	≤11.00	PASS
		5320	2.8	≤11.00	PASS
11AC40SISO	Ant1	5270	-1.97	≤11.00	PASS
		5310	-0.83	≤11.00	PASS
11AC80SISO	Ant1	5290	-7	≤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.

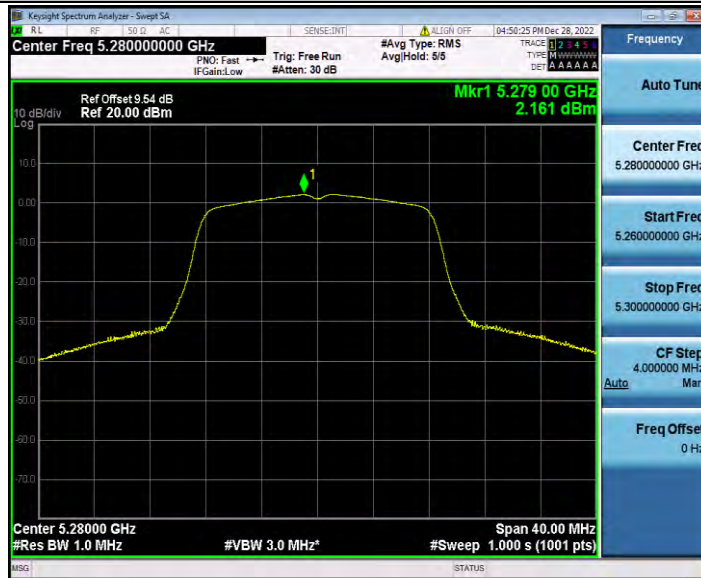


# Test Graphs

11A\_Ant1\_5260



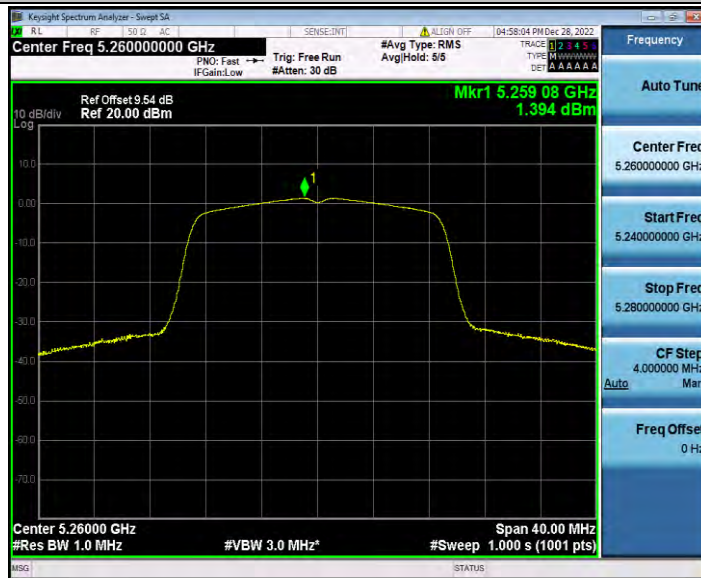
11A\_Ant1\_5280



11A\_Ant1\_5320



11N20SISO\_Ant1\_5260



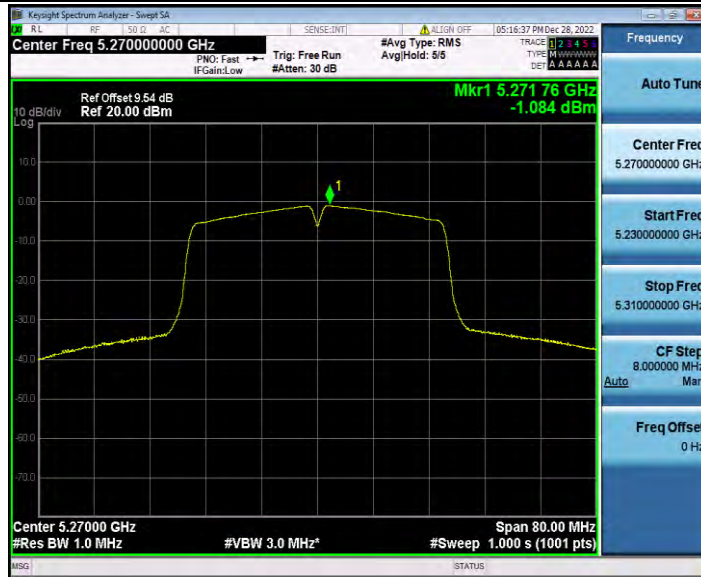
11N20SISO\_Ant1\_5280



11N20SISO\_Ant1\_5320



11N40SISO\_Ant1\_5270



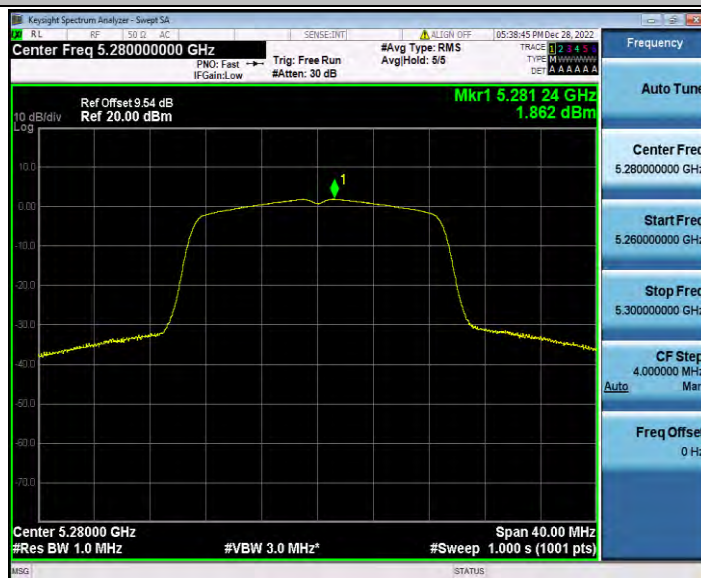
11N40SISO\_Ant1\_5310



11AC20SISO\_Ant1\_5260



11AC20SISO\_Ant1\_5280





11AC20SISO\_Ant1\_5320



11AC40SISO\_Ant1\_5270



11AC40SISO\_Ant1\_5310



11AC80SISO\_Ant1\_5290





## Appendix E.6: Band edge measurements

### Test Result B2

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5260	-37.36	≤-27	PASS
		High	5320	-28.77	≤-27	PASS
11N20SISO	Ant1	Low	5260	-37.67	≤-27	PASS
		High	5320	-28.72	≤-27	PASS
11N40SISO	Ant1	Low	5270	-37.69	≤-27	PASS
		High	5310	-37.33	≤-27	PASS
11AC20SISO	Ant1	Low	5260	-37.6	≤-27	PASS
		High	5320	-28.89	≤-27	PASS
11AC40SISO	Ant1	Low	5270	-36.79	≤-27	PASS
		High	5310	-37.41	≤-27	PASS
11AC80SISO	Ant1	Low	5290	-37.6	≤-27	PASS
		High	5290	-38.3	≤-27	PASS

## Test Graphs B2

11A\_Ant1\_Low\_5260



11A\_Ant1\_High\_5320



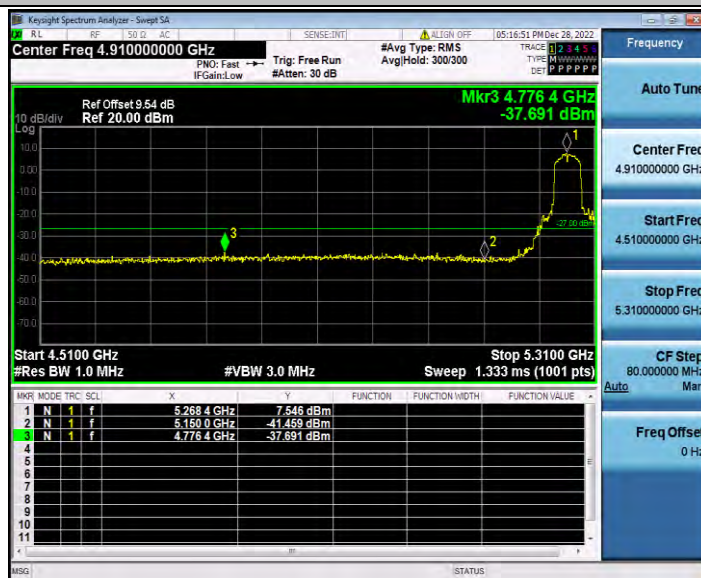
11N20SISO\_Ant1\_Low\_5260



11N20SISO\_Ant1\_High\_5320



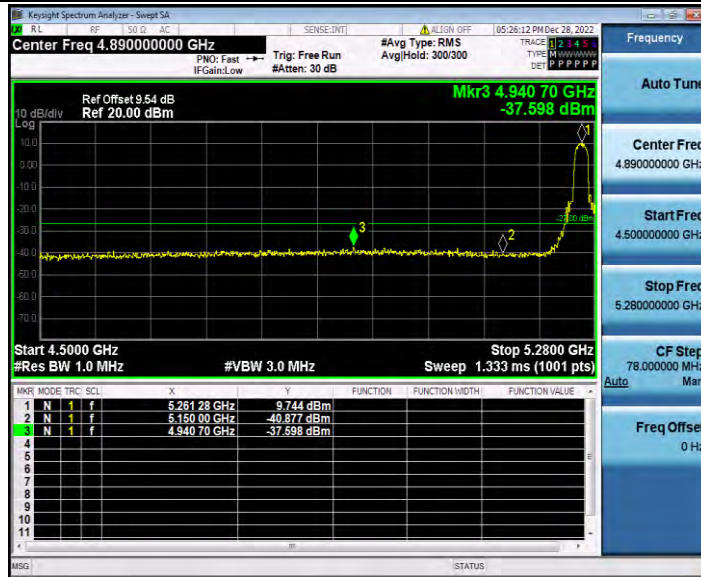
11N40SISO\_Ant1\_Low\_5270



11N40SISO\_Ant1\_High\_5310



11AC20SISO\_Ant1\_Low\_5260



11AC20SISO\_Ant1\_High\_5320

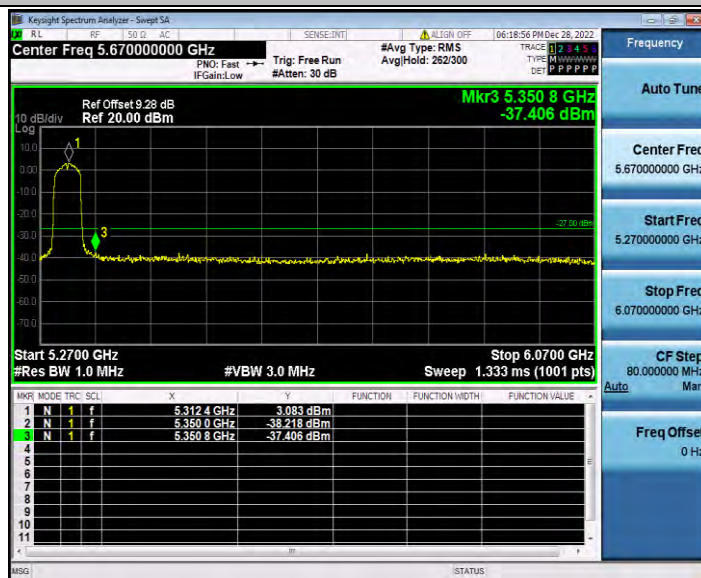




11AC40SISO\_Ant1\_Low\_5270



11AC40SISO\_Ant1\_High\_5310

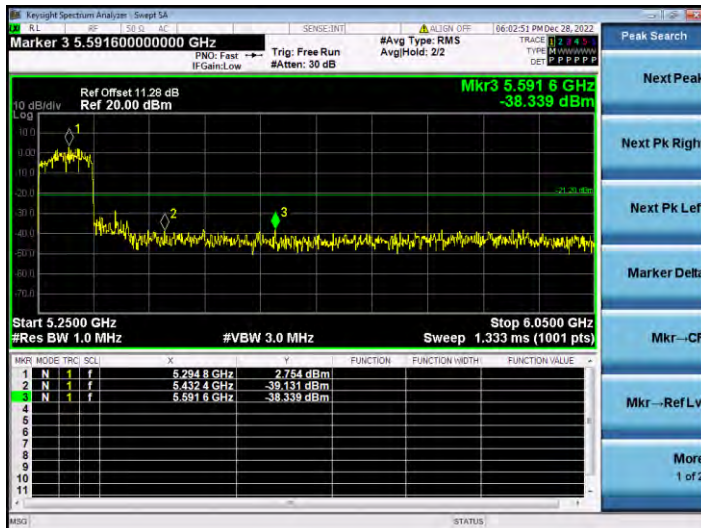




### 11AC80SISO\_Ant1\_Low\_5290



### 11AC80SISO\_Ant1\_High\_5290



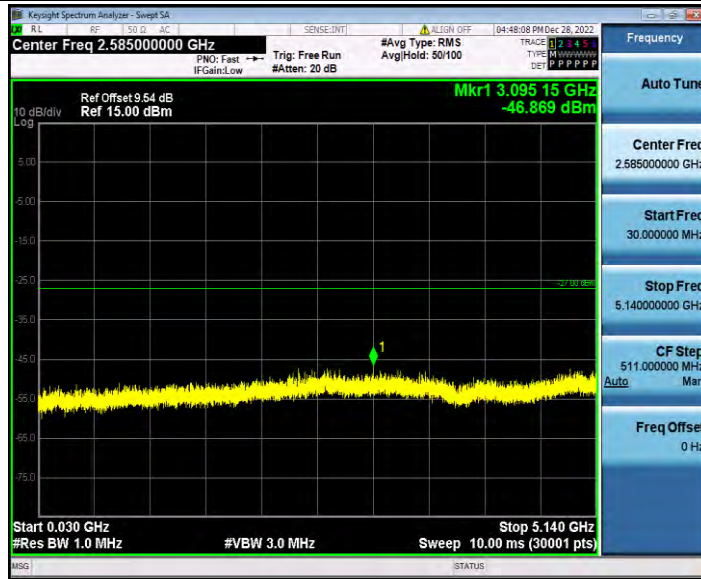
## Appendix E.7: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	30~5140	3095.15	-46.87	≤-27	PASS
			5360~40000	24222.15	-37.56	≤-27	PASS
		5280	30~5140	4889.44	-45.54	≤-27	PASS
			5360~40000	25622.25	-37.79	≤-27	PASS
		5320	30~5140	2685.16	-47.61	≤-27	PASS
			5360~40000	24899.48	-37.92	≤-27	PASS
11N20SISO	Ant1	5260	30~5140	4981.25	-46.27	≤-27	PASS
			5360~40000	25243.55	-37.87	≤-27	PASS
		5280	30~5140	4877.52	-47.55	≤-27	PASS
			5360~40000	24313.03	-38.02	≤-27	PASS
		5320	30~5140	3016.8	-47.92	≤-27	PASS
			5360~40000	25096.4	-38.12	≤-27	PASS
11N40SISO	Ant1	5270	30~5140	4929.13	-46.43	≤-27	PASS
			5360~40000	26012.49	-37.79	≤-27	PASS
		5310	30~5140	4917.37	-47.41	≤-27	PASS
			5360~40000	5360.72	-29.57	≤-27	PASS
11AC20SISO	Ant1	5260	30~5140	5058.07	-47.37	≤-27	PASS
			5360~40000	23616.95	-37.56	≤-27	PASS
		5280	30~5140	5032.01	-46.81	≤-27	PASS
			5360~40000	24319.53	-37.6	≤-27	PASS
		5320	30~5140	4926.57	-47.09	≤-27	PASS
			5360~40000	24340.44	-38.36	≤-27	PASS
11AC40SISO	Ant1	5270	30~5140	4919.93	-46.95	≤-27	PASS
			5360~40000	25133.19	-38.03	≤-27	PASS
		5310	30~5140	1736.91	-46.42	≤-27	PASS
			5360~40000	5360.72	-34.32	≤-27	PASS
11AC80SISO	Ant1	5290	30~5140	4865.42	-46.52	≤-27	PASS
			5360~40000	5362.16	-33.47	≤-27	PASS

# Test Graphs

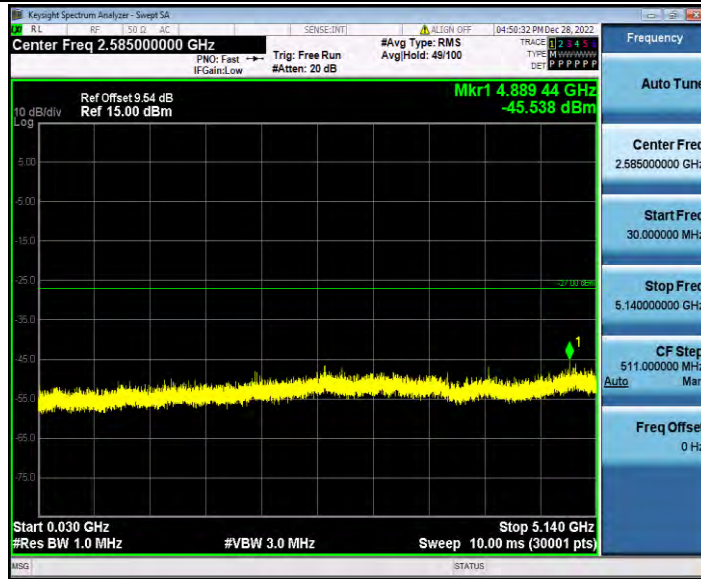
11A\_Ant1\_5260\_30~5140



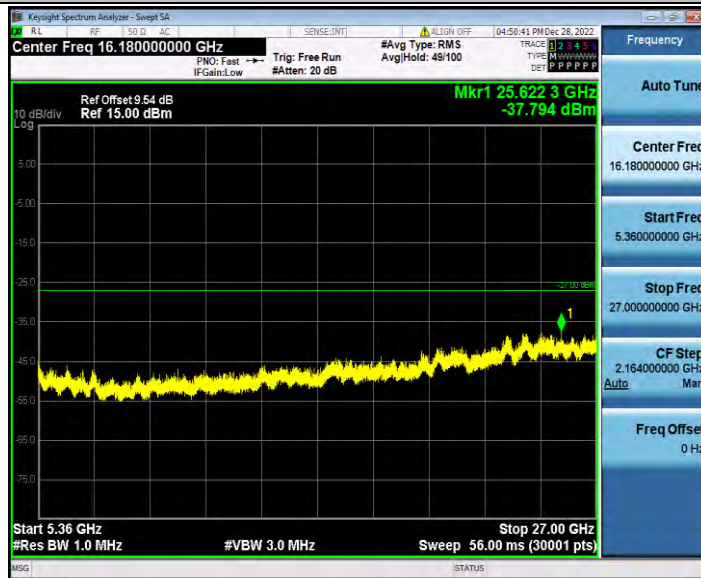
11A\_Ant1\_5260\_5360~40000



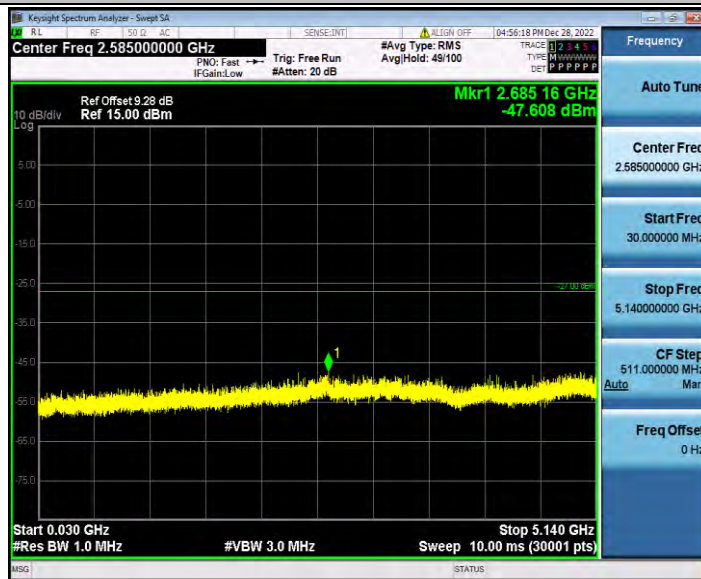
11A\_Ant1\_5280\_30~5140



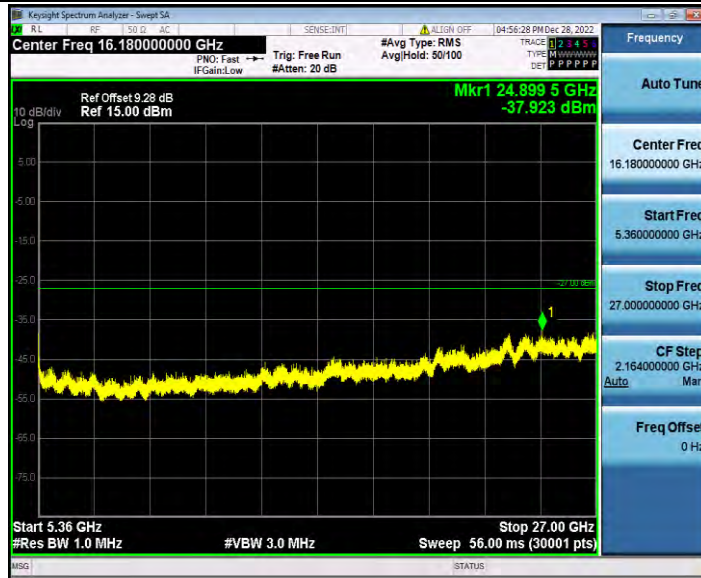
11A\_Ant1\_5280\_5360~40000



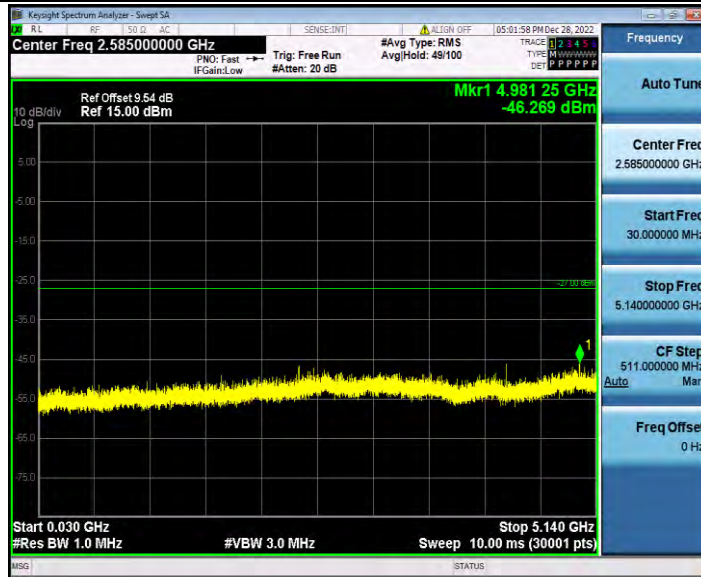
11A\_Ant1\_5320\_30~5140



11A\_Ant1\_5320\_5360~40000



11N20SISO\_Ant1\_5260\_30~5140

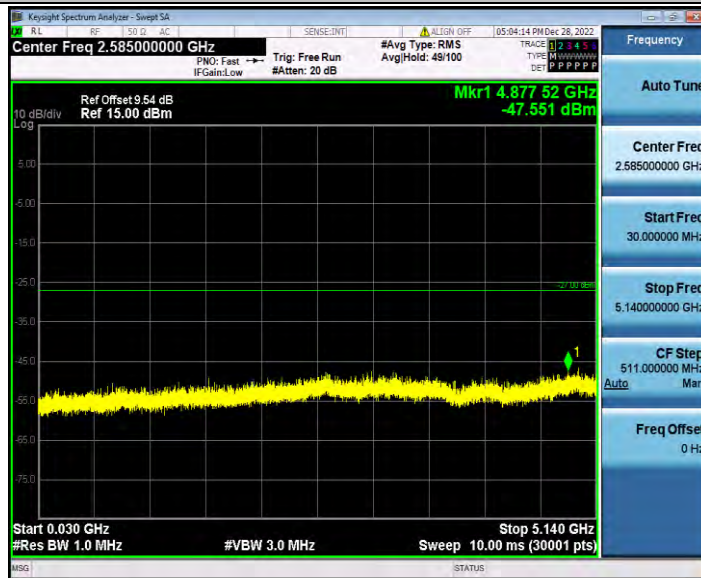


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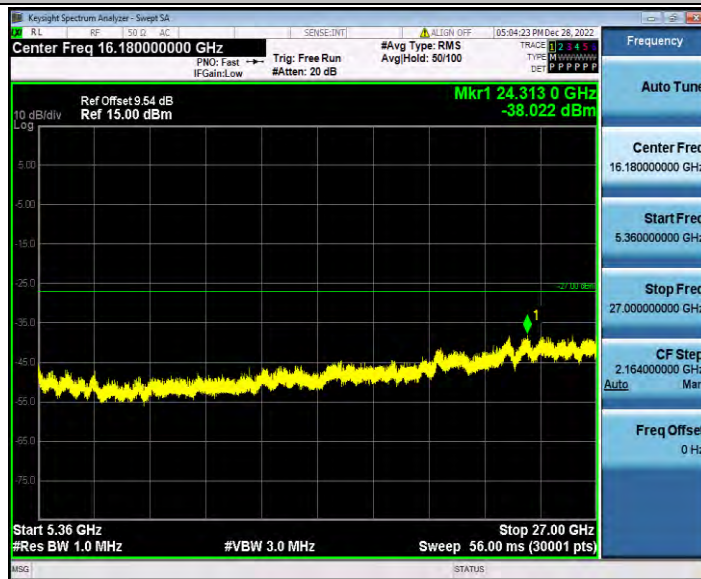




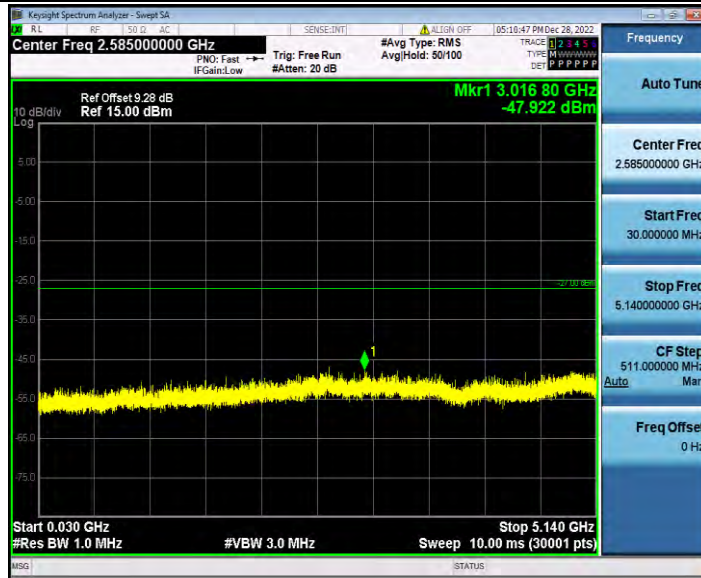
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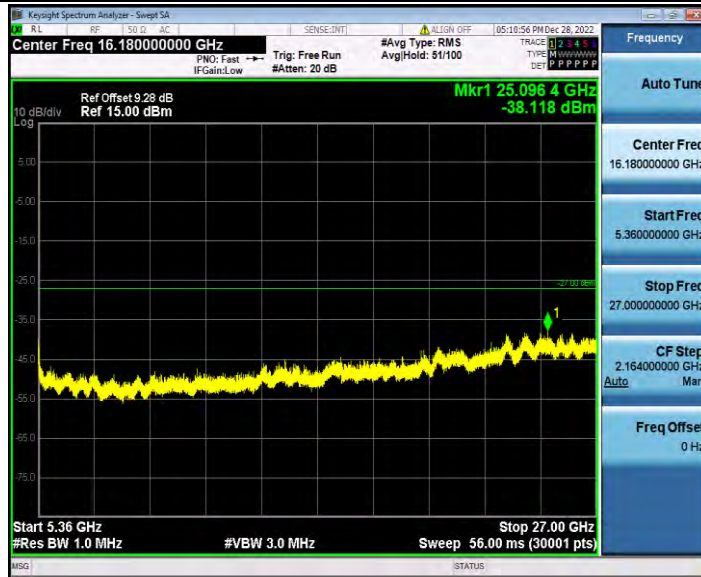
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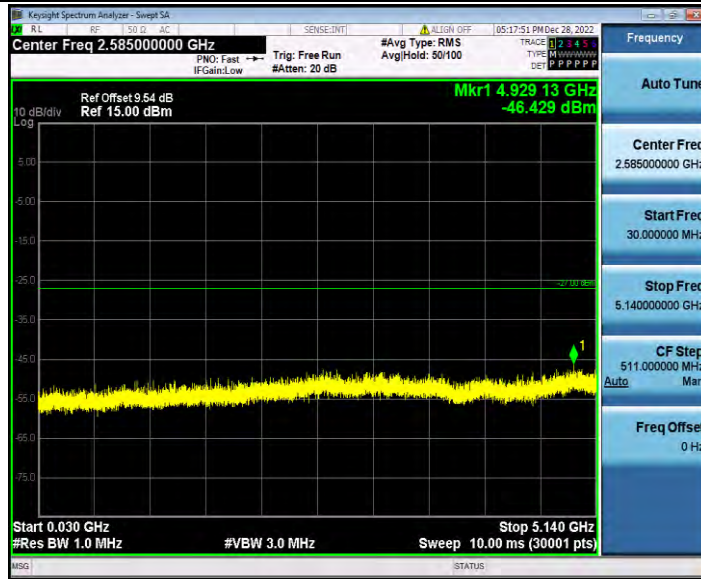
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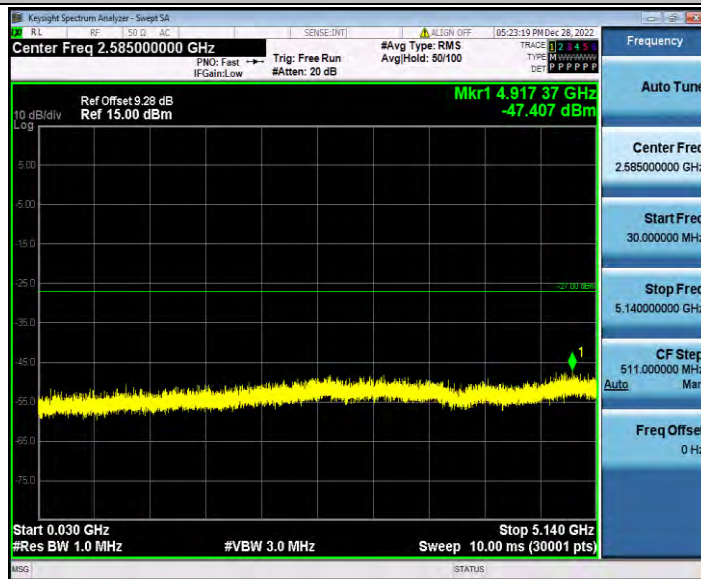
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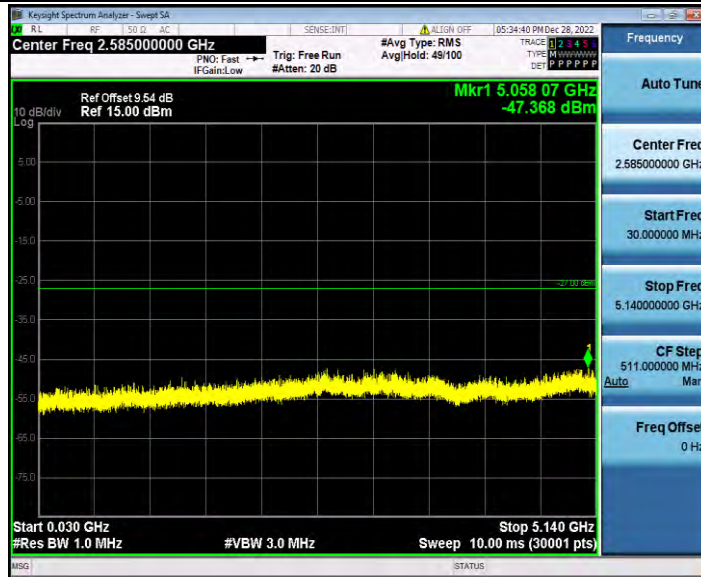
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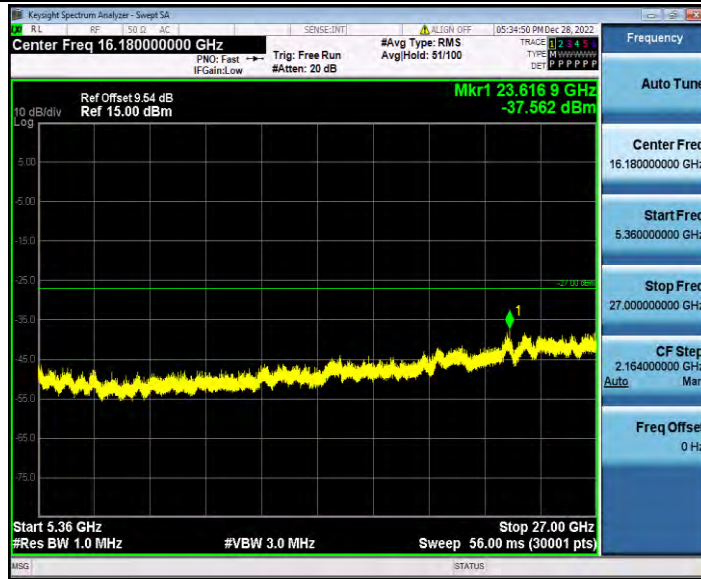


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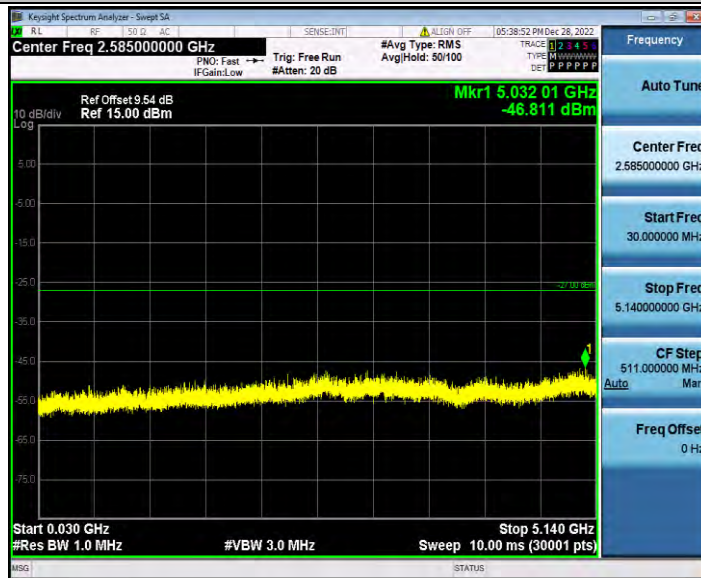


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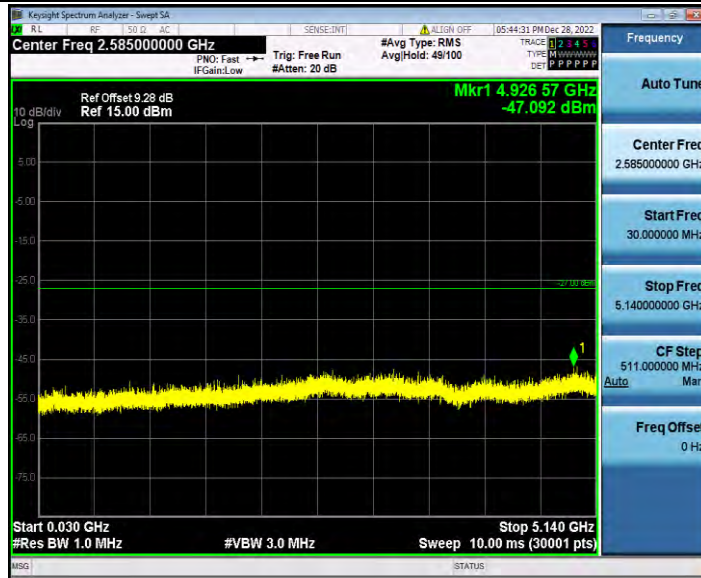


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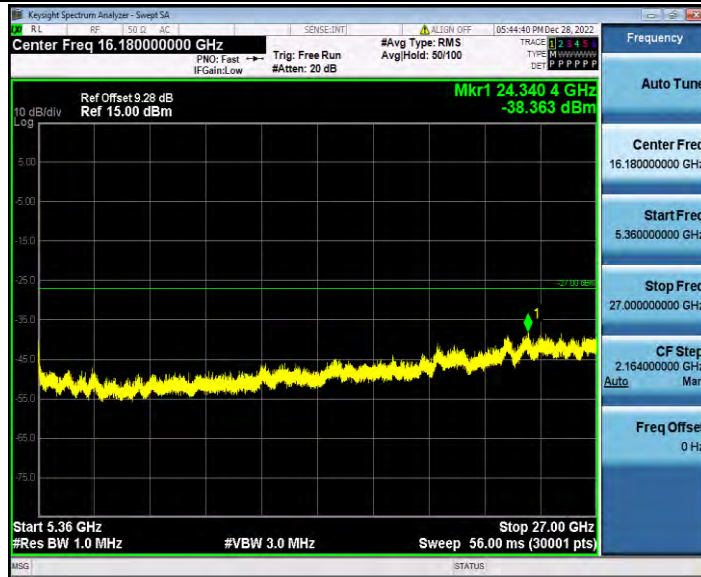




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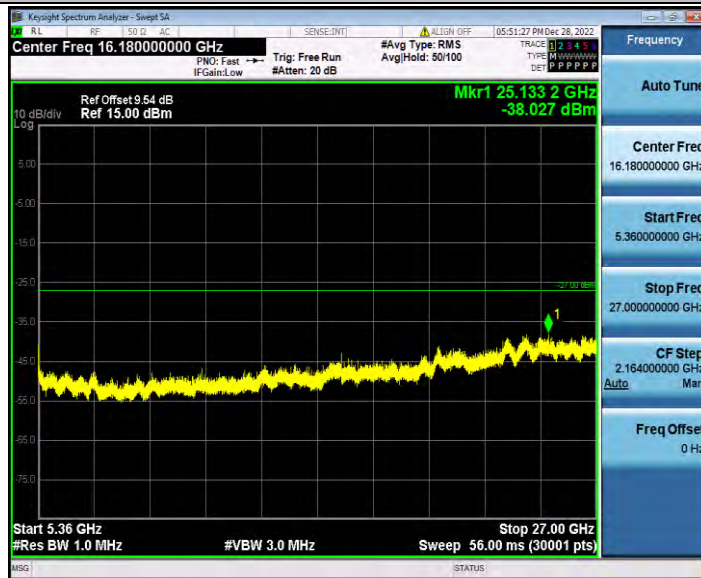
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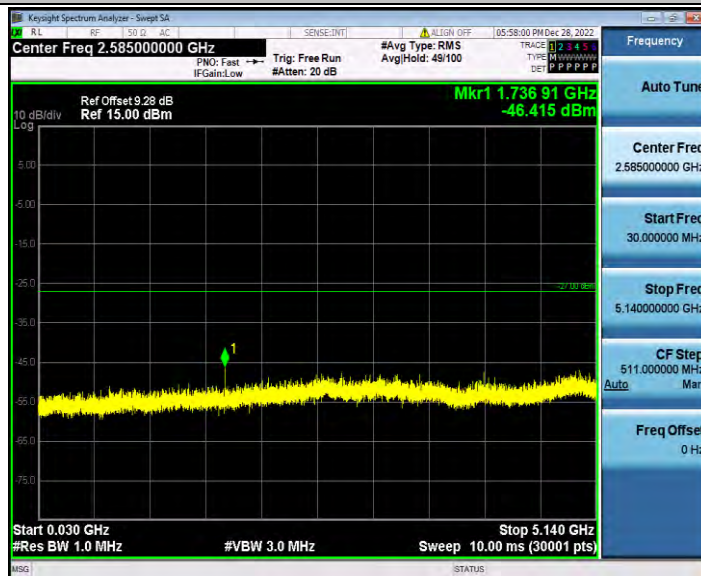
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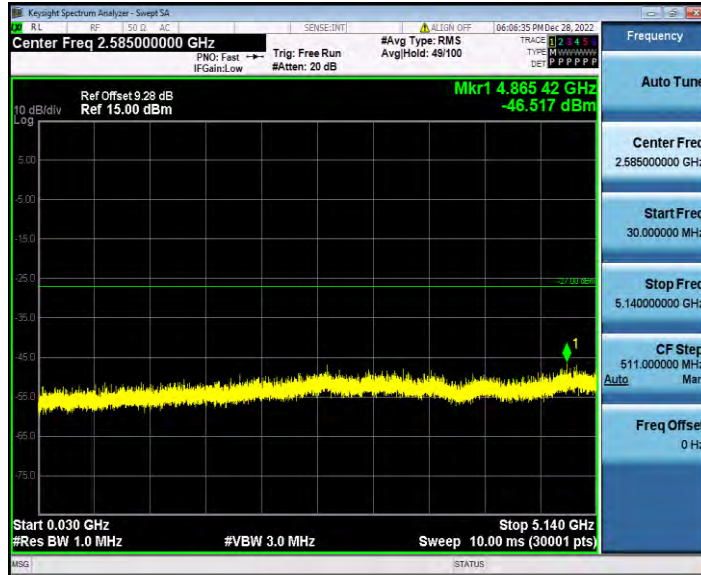
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11AC80SISO\_Ant1\_5290\_30~5140



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