

Case No. : GTS20221216016-1-14	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.1.7	Test Engineer: Jenny zeng

Appendix F.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5500	21.800	5489.280	5511.080	---	---
		5600	23.440	5588.880	5612.320	---	---
		5700	21.720	5689.840	5711.560	---	---
11N20SISO	Ant2	5500	24.880	5488.640	5513.520	---	---
		5600	23.880	5587.440	5611.320	---	---
		5700	24.200	5688.440	5712.640	---	---
11N40SISO	Ant2	5510	59.120	5482.240	5541.360	---	---
		5590	68.960	5554.320	5623.280	---	---
		5670	50.560	5649.120	5699.680	---	---
11AC20SISO	Ant2	5500	25.200	5487.600	5512.800	---	---
		5600	27.080	5585.680	5612.760	---	---
		5700	20.280	5689.960	5710.240	---	---
11AC40SISO	Ant2	5510	45.760	5484.560	5530.320	---	---
		5590	63.680	5552.800	5616.480	---	---
		5670	40.400	5649.840	5690.240	---	---
11AC80SISO	Ant2	5530	118.080	5459.440	5577.520	---	---
		5610	128.800	5545.040	5673.840	---	---

Test Graphs

11A_Ant2_5500



11A_Ant2_5600



11A_Ant2_5700



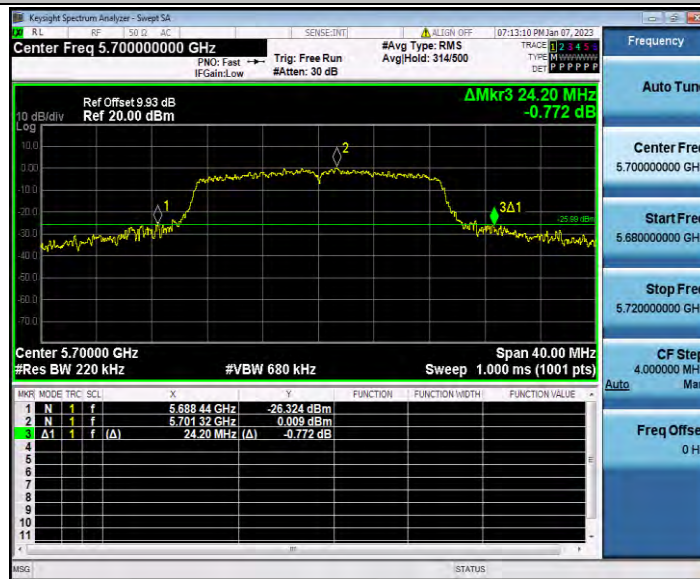
11N20SISO_Ant2_5500



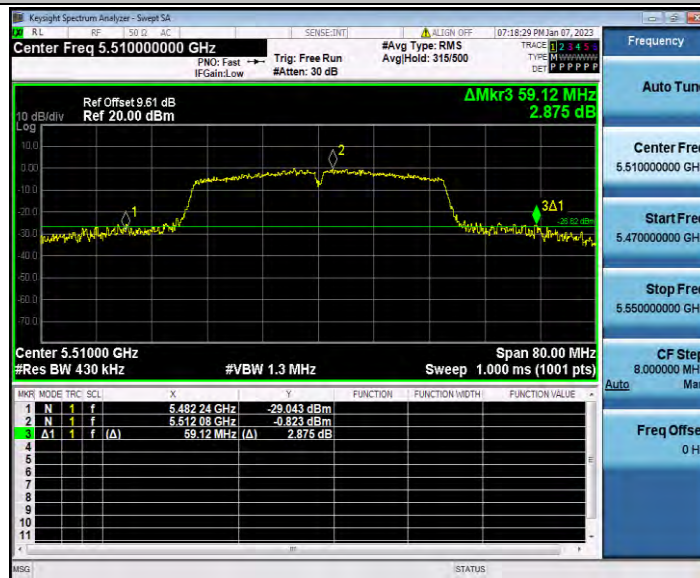
11N20SISO_Ant2_5600



11N20SISO_Ant2_5700



11N40SISO_Ant2_5510



11N40SISO_Ant2_5590



11N40SISO_Ant2_5670



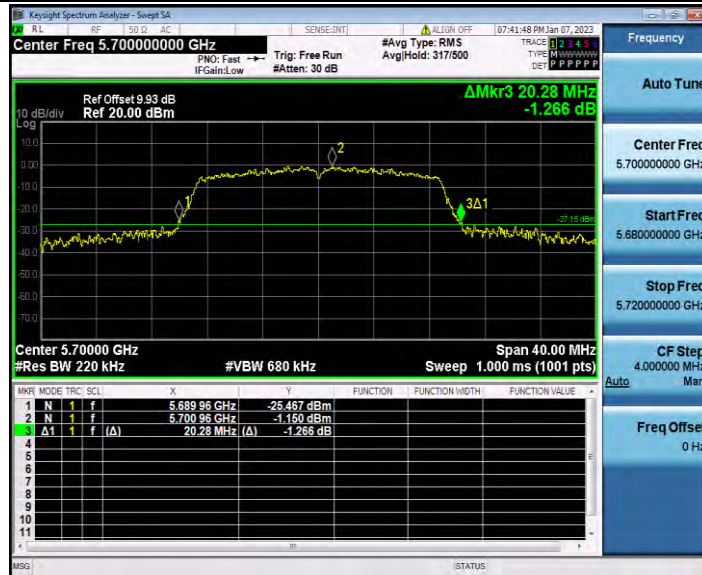
11AC20SISO_Ant2_5500



11AC20SISO_Ant2_5600



11AC20SISO_Ant2_5700



11AC40SISO_Ant2_5510



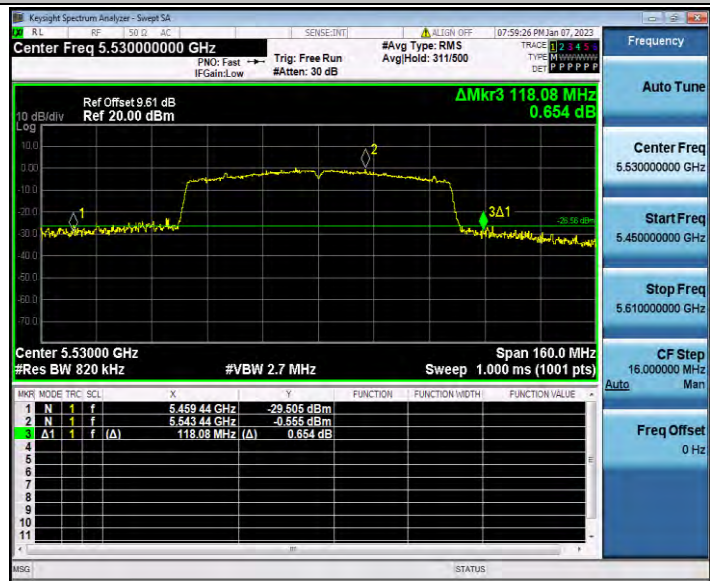
11AC40SISO_Ant2_5590



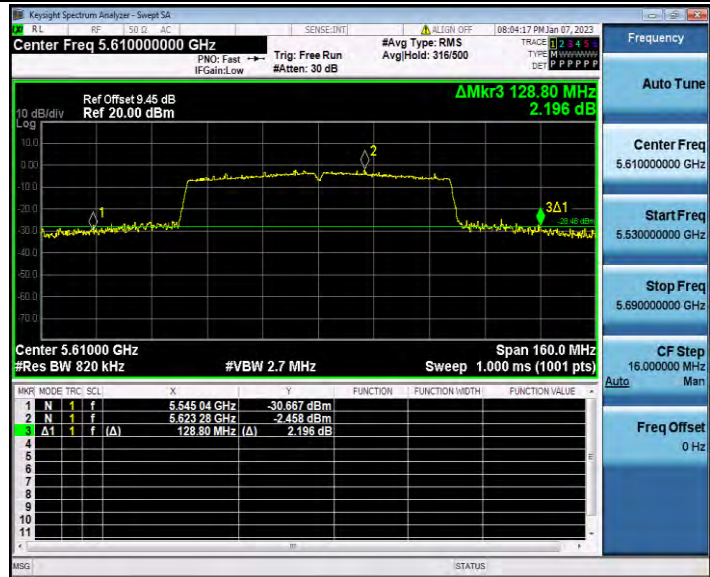
11AC40SISO_Ant2_5670



11AC80SISO_Ant2_5530



11AC80SISO_Ant2_5610



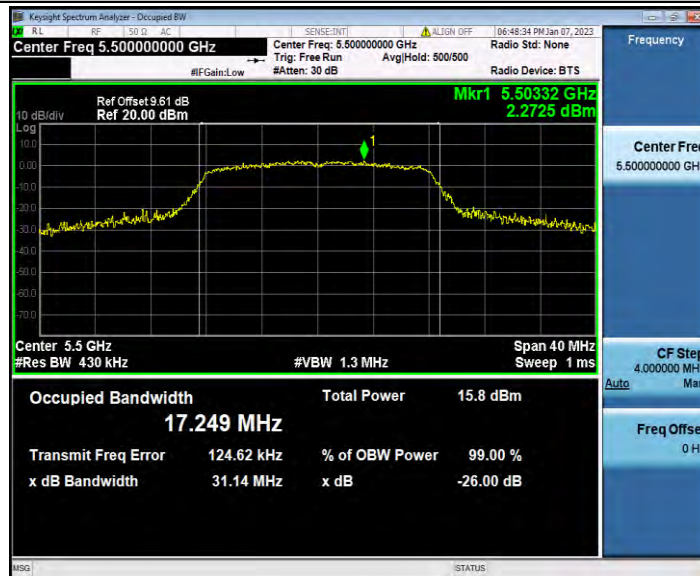
Appendix F.2: Occupied channel bandwidth

Test Result

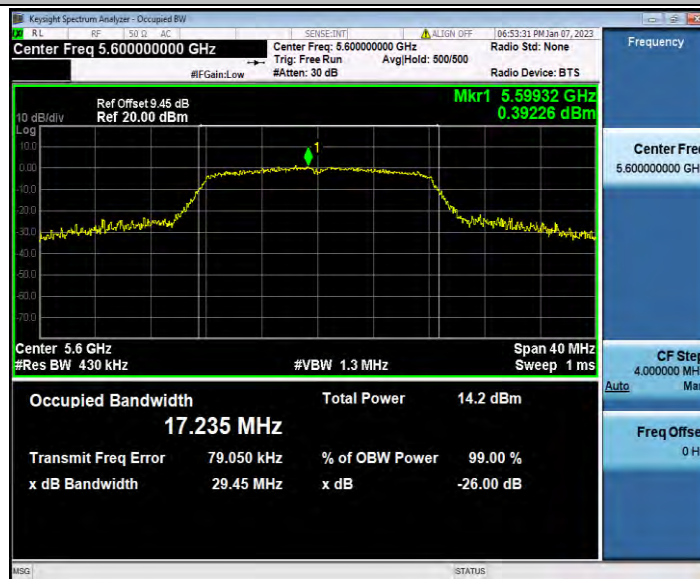
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5500	17.249	5491.500	5508.749	---	---
		5600	17.235	5591.462	5608.697	---	---
		5700	17.110	5691.517	5708.627	---	---
11N20SISO	Ant2	5500	18.196	5490.964	5509.160	---	---
		5600	18.185	5590.987	5609.172	---	---
		5700	18.094	5691.058	5709.152	---	---
11N40SISO	Ant2	5510	36.849	5491.740	5528.589	---	---
		5590	37.110	5571.477	5608.587	---	---
		5670	36.807	5651.777	5688.584	---	---
11AC20SISO	Ant2	5500	18.100	5491.086	5509.186	---	---
		5600	18.178	5590.971	5609.149	---	---
		5700	18.019	5691.100	5709.119	---	---
11AC40SISO	Ant2	5510	36.553	5491.836	5528.389	---	---
		5590	36.557	5571.700	5608.257	---	---
		5670	36.374	5651.951	5688.325	---	---
11AC80SISO	Ant2	5530	75.496	5492.223	5567.719	---	---
		5610	76.306	5571.990	5648.296	---	---

Test Graphs

11A_Ant2_5500



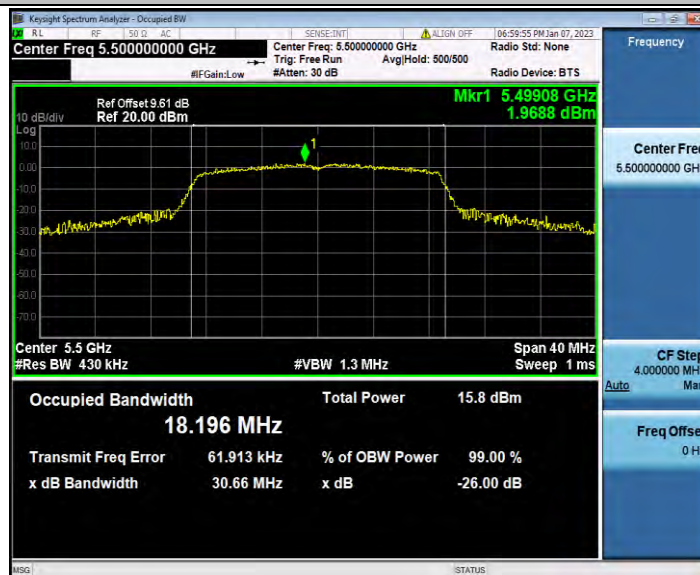
11A_Ant2_5600



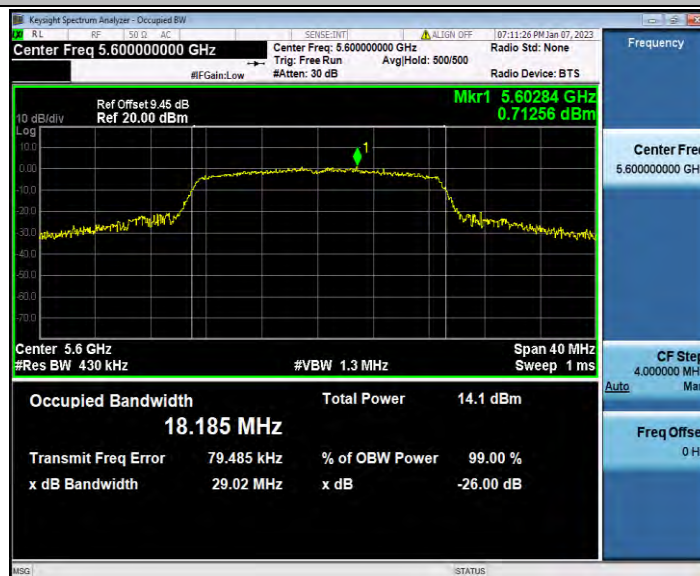
11A_Ant2_5700



11N20SISO_Ant2_5500



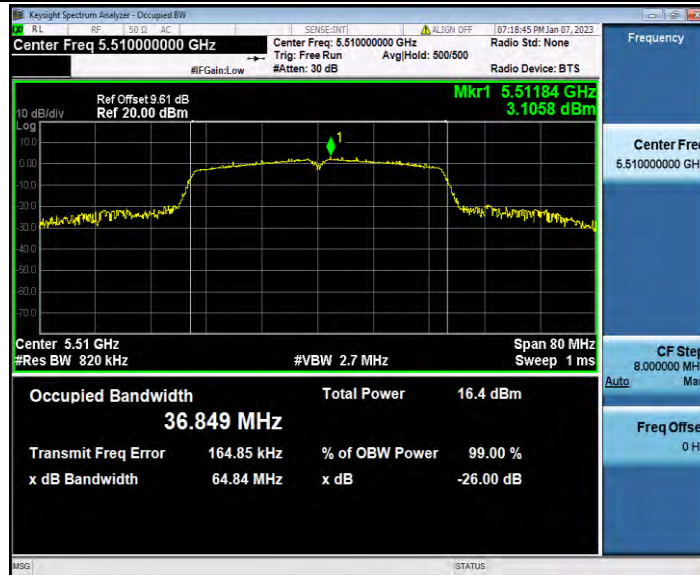
11N20SISO_Ant2_5600



11N20SISO_Ant2_5700



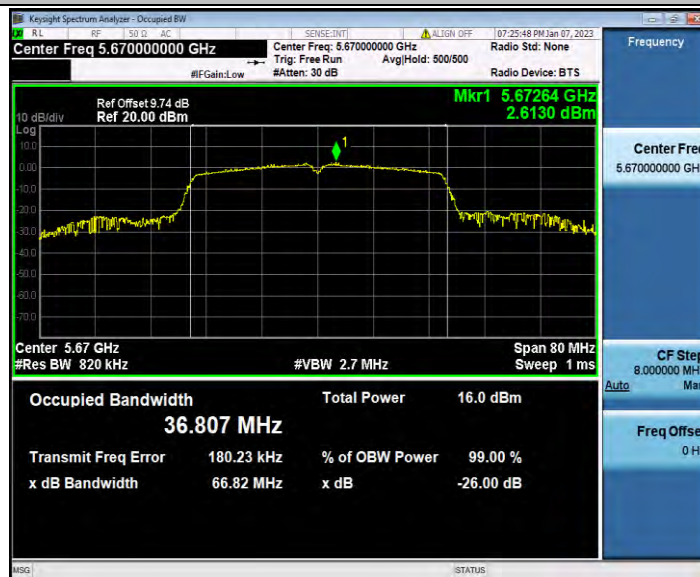
11N40SISO_Ant2_5510



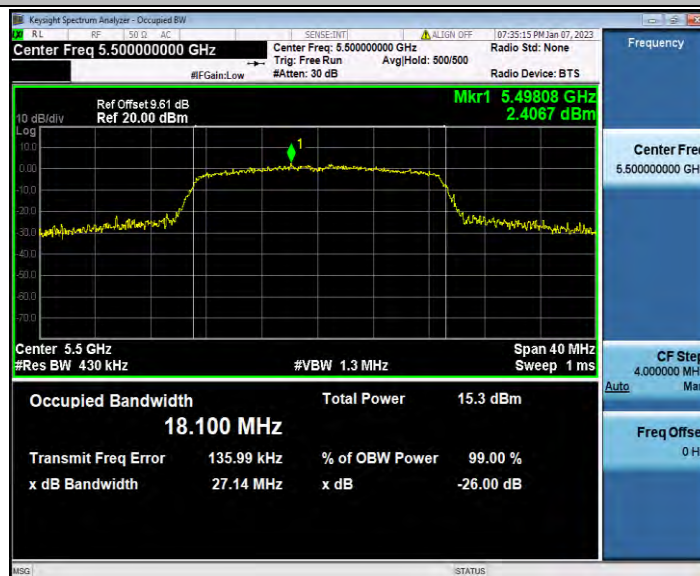
11N40SISO_Ant2_5590



11N40SISO_Ant2_5670



11AC20SISO_Ant2_5500



11AC20SISO_Ant2_5600



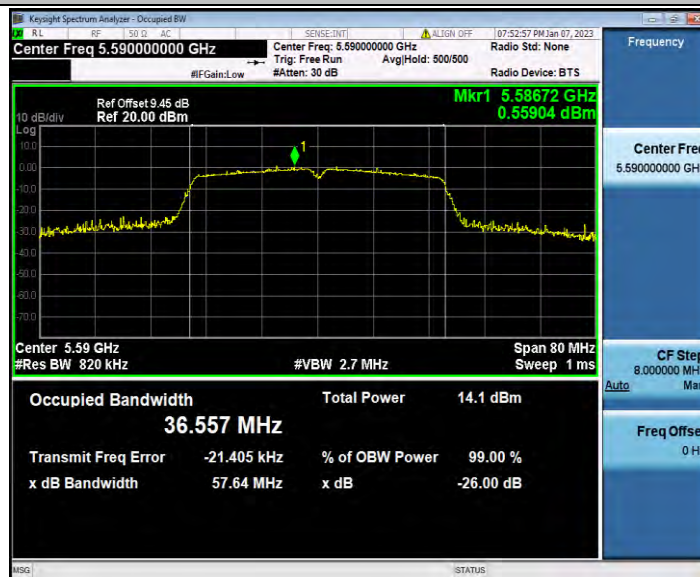
11AC20SISO_Ant2_5700



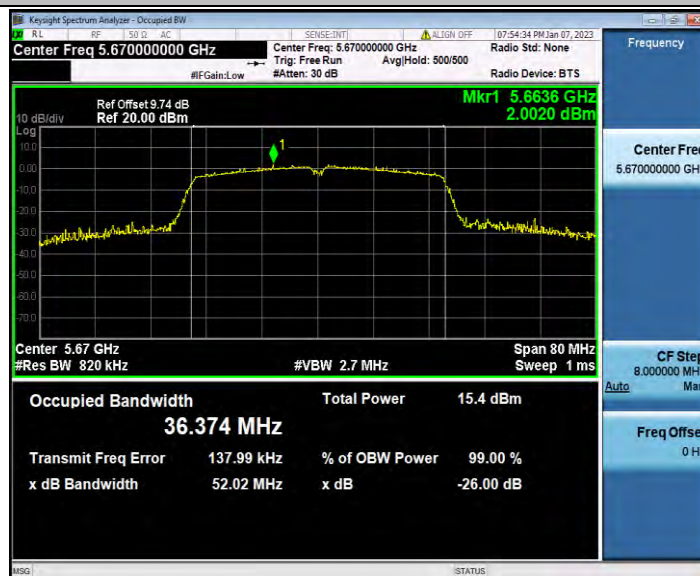
11AC40SISO_Ant2_5510



11AC40SISO_Ant2_5590



11AC40SISO_Ant2_5670



11AC80SISO_Ant2_5530



11AC80SISO_Ant2_5610



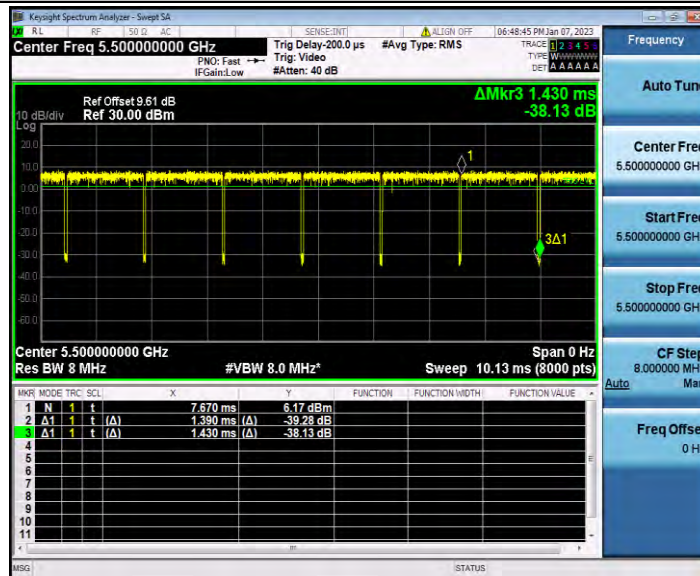
Appendix F.3: Duty Cycle

Test Result

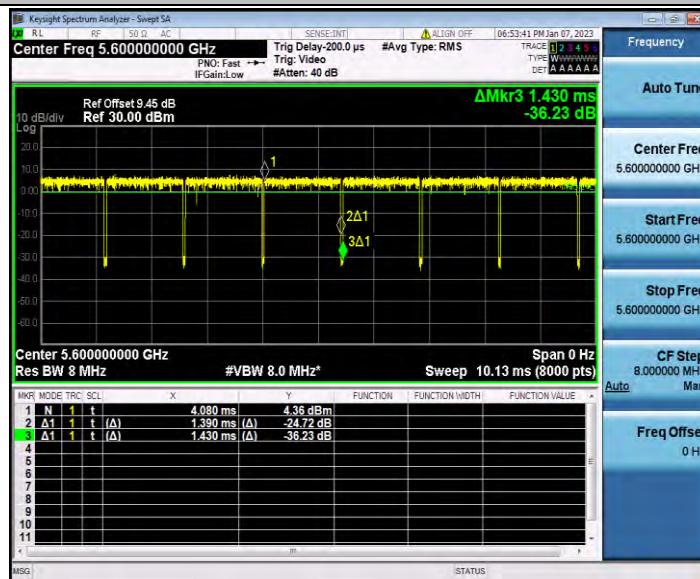
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5500	1.39	1.43	97.20
		5600	1.39	1.43	97.20
		5700	1.40	1.44	97.22
11N20SISO	Ant2	5500	1.30	1.35	96.30
		5600	1.30	1.35	96.30
		5700	1.30	1.34	97.01
11N40SISO	Ant2	5510	0.65	0.69	94.20
		5590	0.64	0.69	92.75
		5670	0.65	0.69	94.20
11AC20SISO	Ant2	5500	1.31	1.36	96.32
		5600	1.31	1.35	97.04
		5700	1.31	1.36	96.32
11AC40SISO	Ant2	5510	0.65	0.70	92.86
		5590	0.65	0.69	94.20
		5670	0.65	0.69	94.20
11AC80SISO	Ant2	5530	0.33	0.37	89.19
		5610	0.33	0.37	89.19

Test Graphs

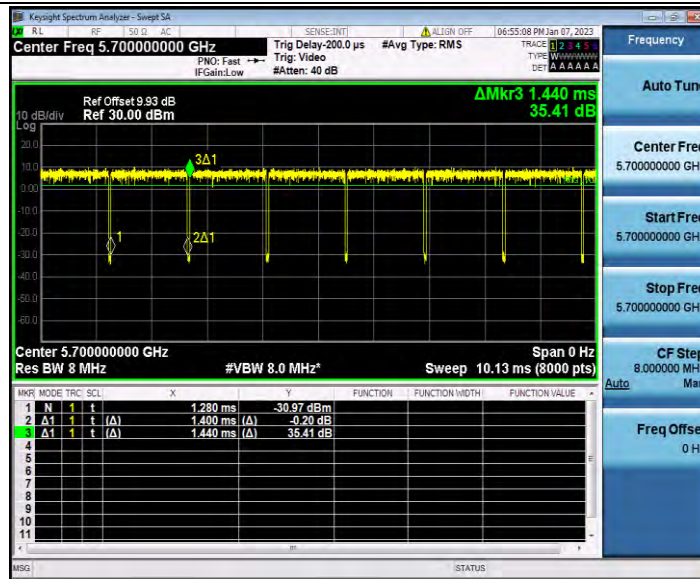
11A_Ant2_5500



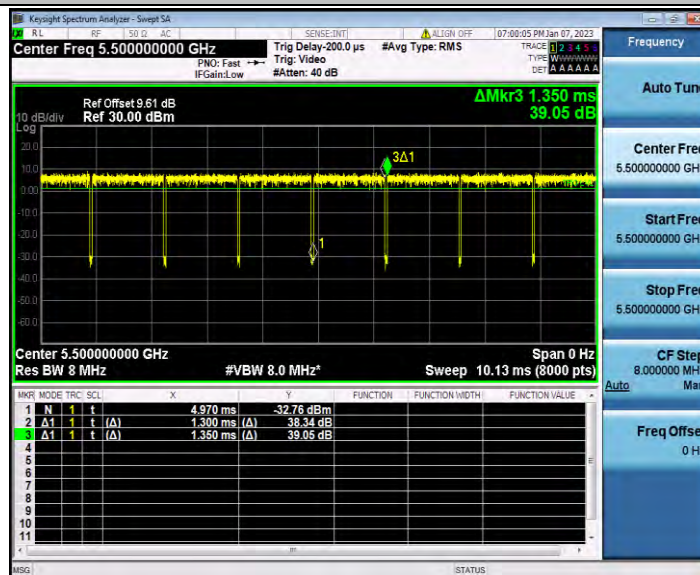
11A_Ant2_5600



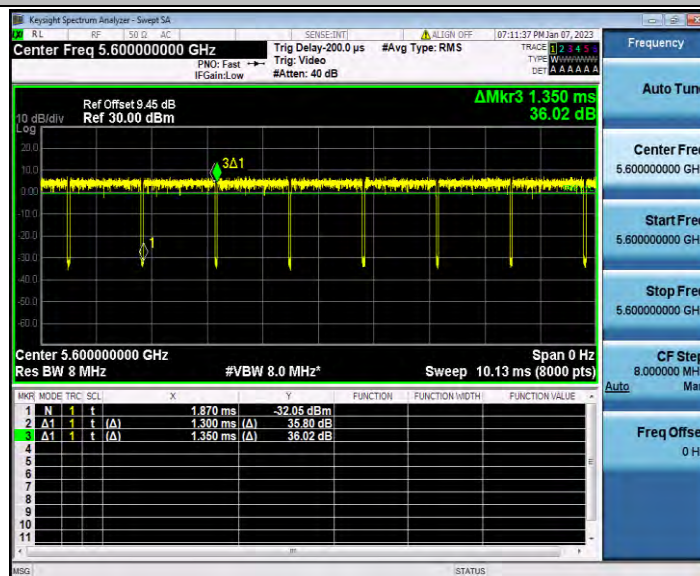
11A_Ant2_5700



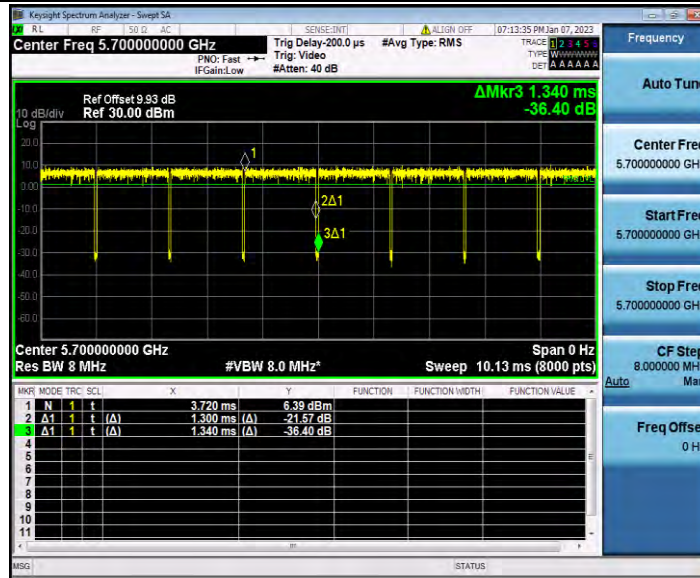
11N20SISO_Ant2_5500



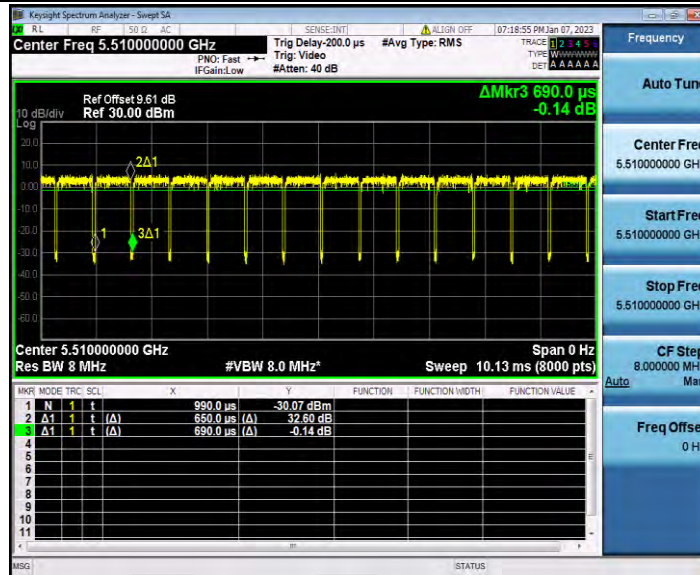
11N20SISO_Ant2_5600



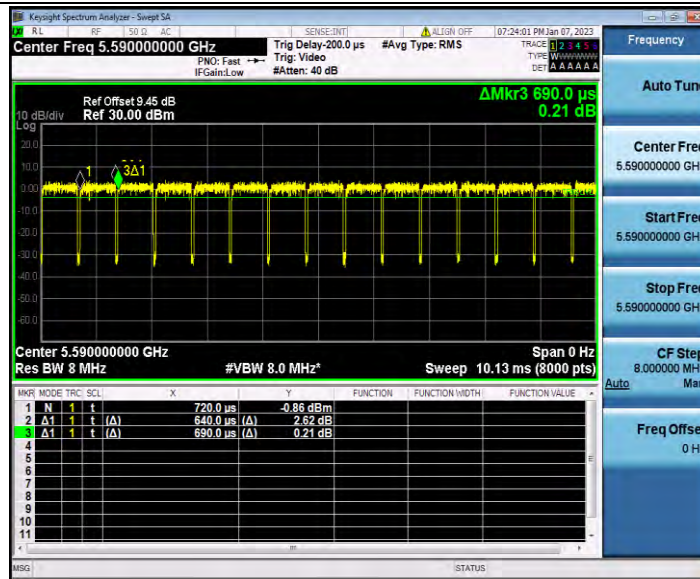
11N20SISO_Ant2_5700



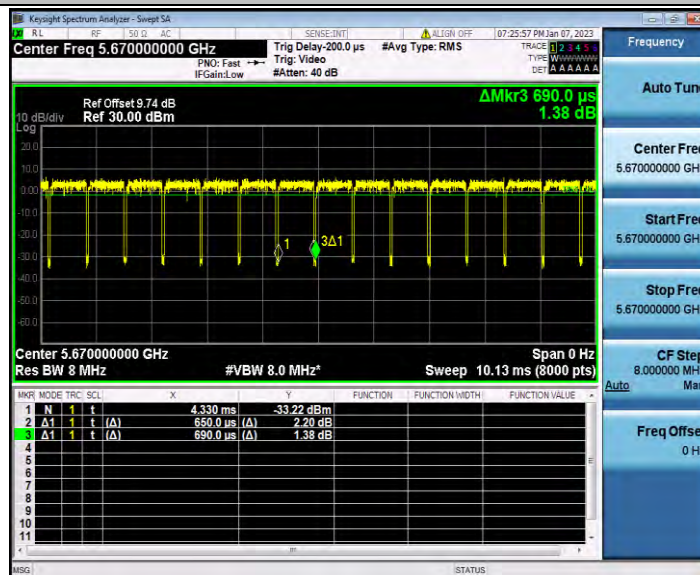
11N40SISO_Ant2_5510



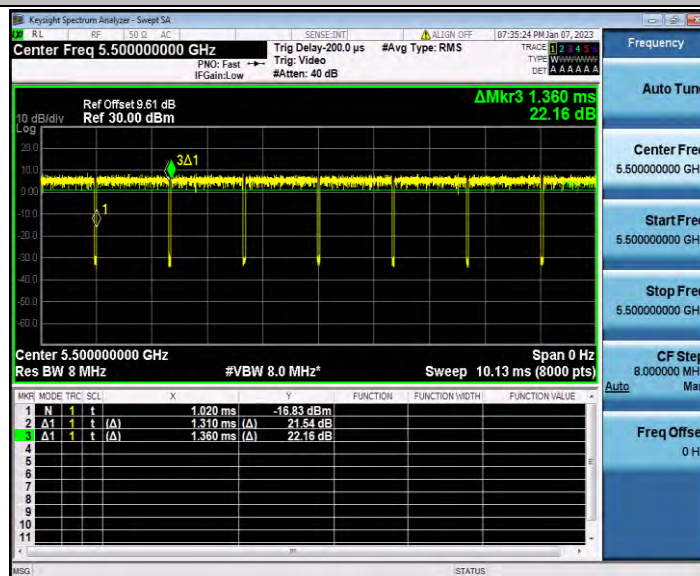
11N40SISO_Ant2_5590



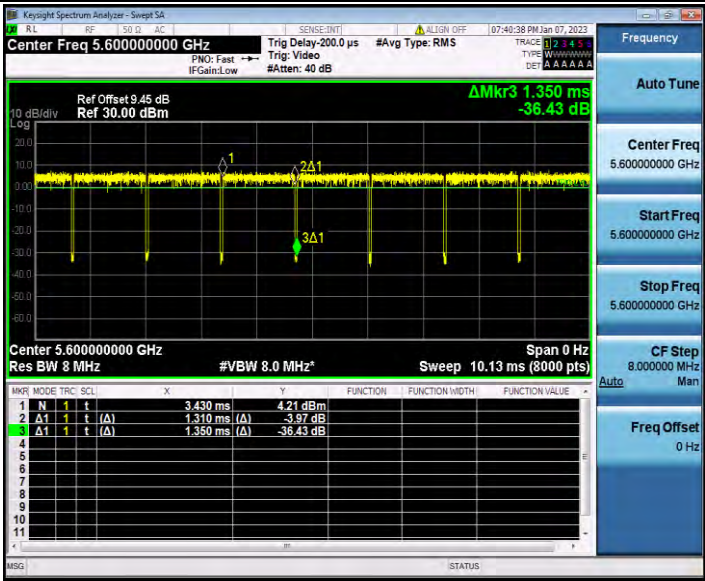
11N40SISO_Ant2_5670



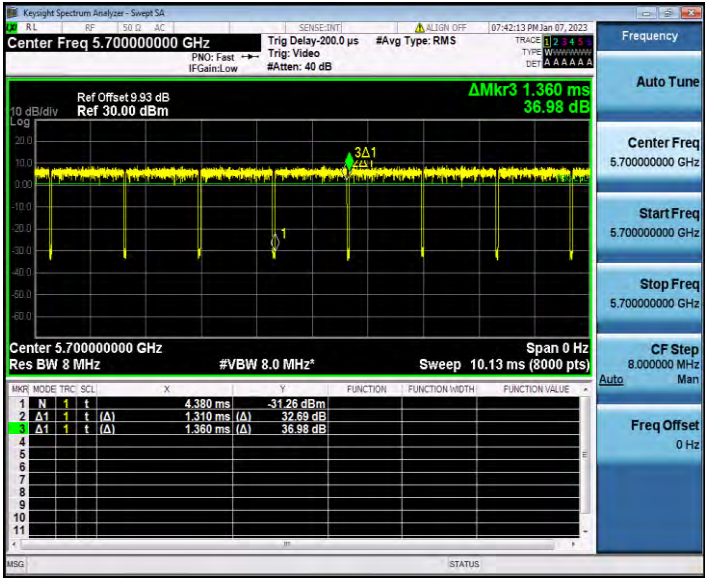
11AC20SISO_Ant2_5500



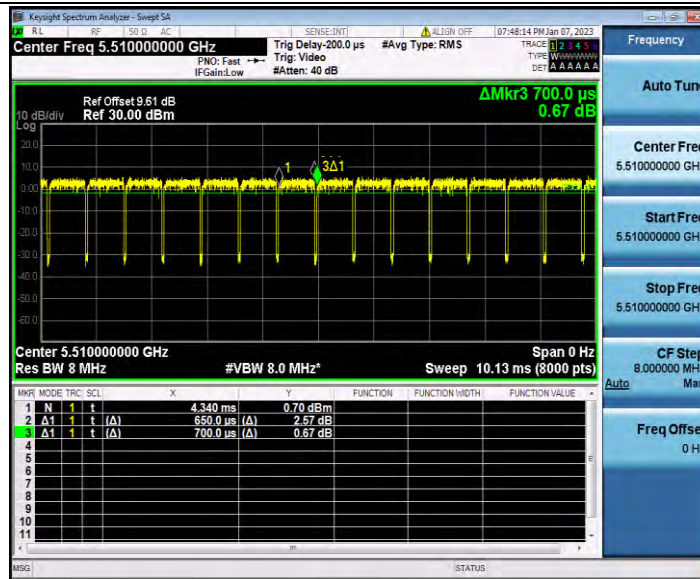
11AC20SISO_Ant2_5600



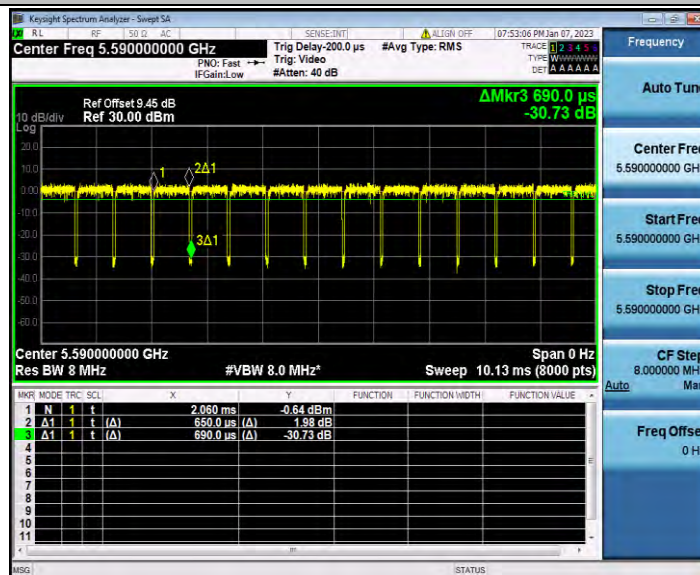
11AC20SISO_Ant2_5700



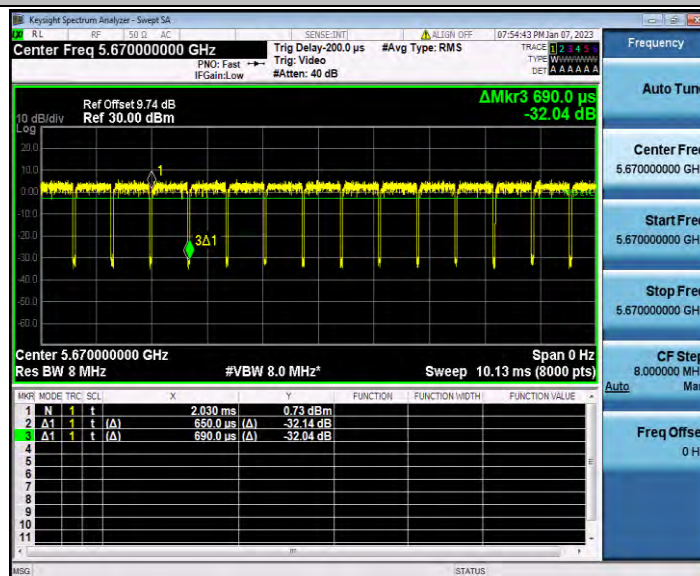
11AC40SISO_Ant2_5510



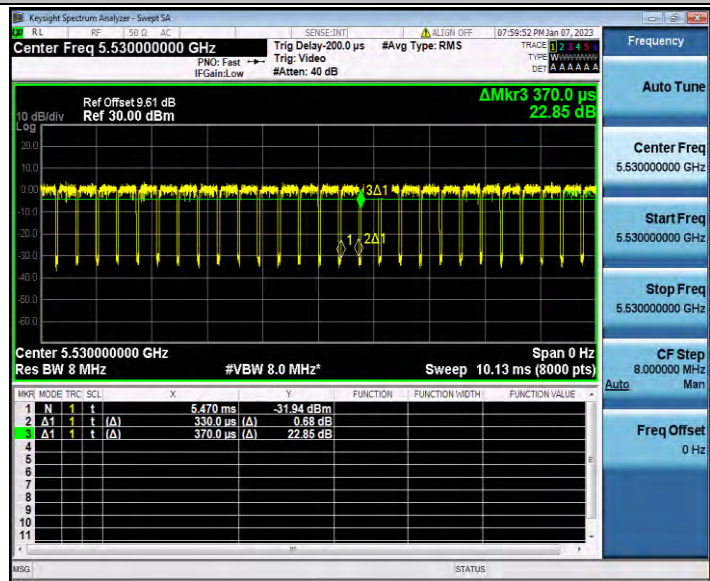
11AC40SISO_Ant2_5590



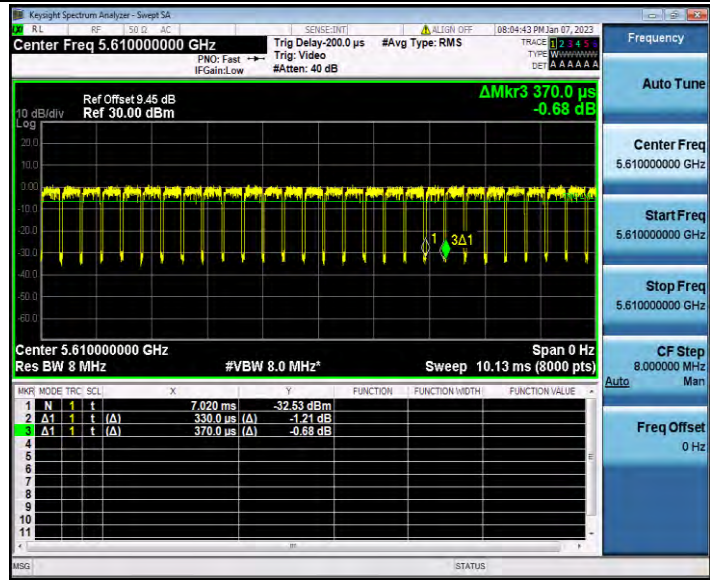
11AC40SISO_Ant2_5670



11AC80SISO_Ant2_5530



11AC80SISO_Ant2_5610



Appendix F.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	Ant2	5500	8.75	97.20	0.12	8.87	≤23.98	PASS
		5600	7.29	97.20	0.12	7.41	≤23.98	PASS
		5700	9.42	97.22	0.12	9.54	≤23.98	PASS
11N20SISO	Ant2	5500	8.70	96.30	0.16	8.86	≤23.98	PASS
		5600	7.13	96.30	0.16	7.29	≤23.98	PASS
		5700	9.21	97.01	0.13	9.34	≤23.98	PASS
11N40SISO	Ant2	5510	8.65	94.20	0.26	8.91	≤23.98	PASS
		5590	6.45	92.75	0.33	6.78	≤23.98	PASS
		5670	8.37	94.20	0.26	8.63	≤23.98	PASS
11AC20SISO	Ant2	5500	8.29	96.32	0.16	8.45	≤23.98	PASS
		5600	7.32	97.04	0.13	7.45	≤23.98	PASS
		5700	8.47	96.32	0.16	8.63	≤23.98	PASS
11AC40SISO	Ant2	5510	8.11	92.86	0.32	8.43	≤23.98	PASS
		5590	6.42	94.20	0.26	6.68	≤23.98	PASS
		5670	7.82	94.20	0.26	8.08	≤23.98	PASS
11AC80SISO	Ant2	5530	7.83	89.19	0.50	8.33	≤23.98	PASS
		5610	6.40	89.19	0.50	6.90	≤23.98	PASS

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

Appendix F.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5500	-1.93	≤11.00	PASS
		5600	-3.36	≤11.00	PASS
		5700	-1.04	≤11.00	PASS
11N20SISO	Ant2	5500	-2.1	≤11.00	PASS
		5600	-3.65	≤11.00	PASS
		5700	-1.45	≤11.00	PASS
11N40SISO	Ant2	5510	-4.06	≤11.00	PASS
		5590	-6.88	≤11.00	PASS
		5670	-4.91	≤11.00	PASS
11AC20SISO	Ant2	5500	-2.54	≤11.00	PASS
		5600	-3.37	≤11.00	PASS
		5700	-2.06	≤11.00	PASS
11AC40SISO	Ant2	5510	-4.91	≤11.00	PASS
		5590	-6.91	≤11.00	PASS
		5670	-5.48	≤11.00	PASS
11AC80SISO	Ant2	5530	-7.76	≤11.00	PASS
		5610	-9.46	≤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_Ant2_5500



11A_Ant2_5600



11A_Ant2_5700



11N20SISO_Ant2_5500



11N20SISO_Ant2_5600



11N20SISO_Ant2_5700



11N40SISO_Ant2_5510



11N40SISO_Ant2_5590



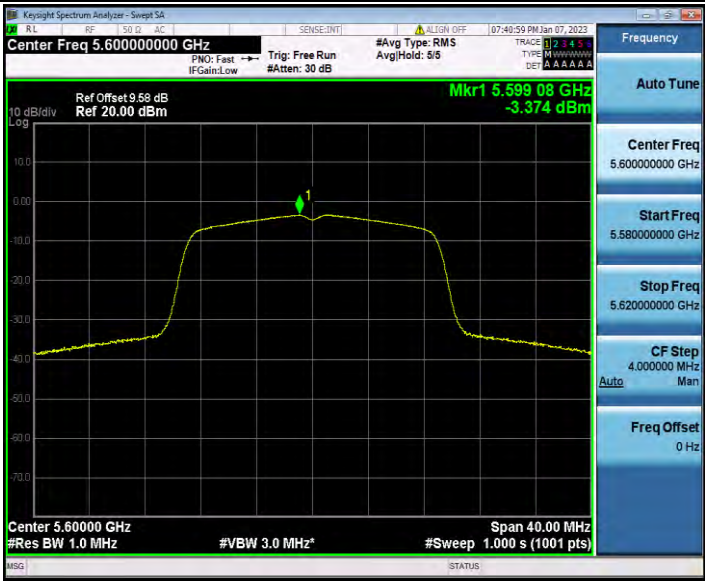
11N40SISO_Ant2_5670



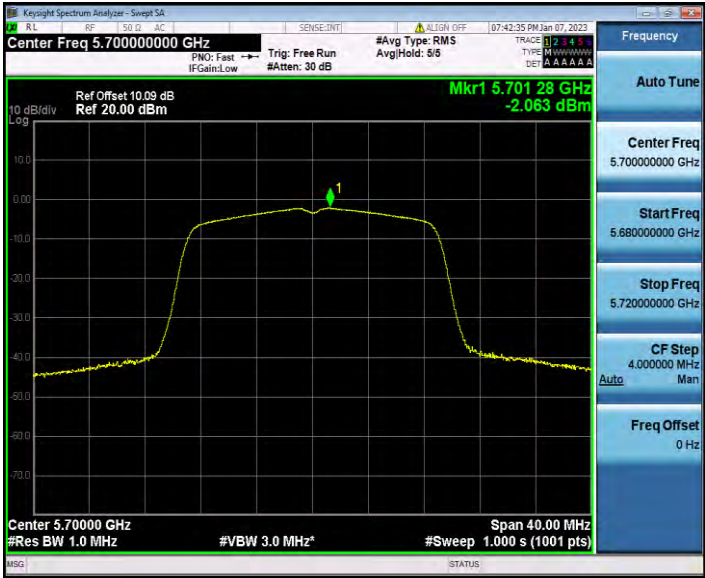
11AC20SISO_Ant2_5500



11AC20SISO_Ant2_5600



11AC20SISO_Ant2_5700



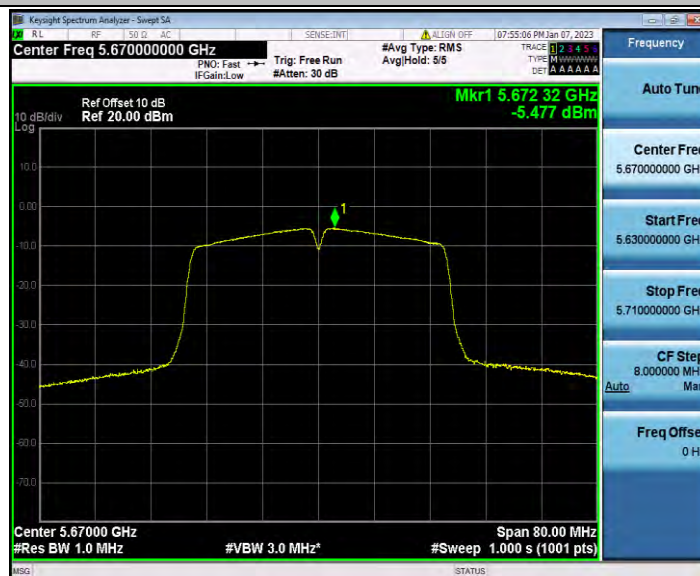
11AC40SISO_Ant2_5510



11AC40SISO_Ant2_5590



11AC40SISO_Ant2_5670



11AC80SISO_Ant2_5530



11AC80SISO_Ant2_5610



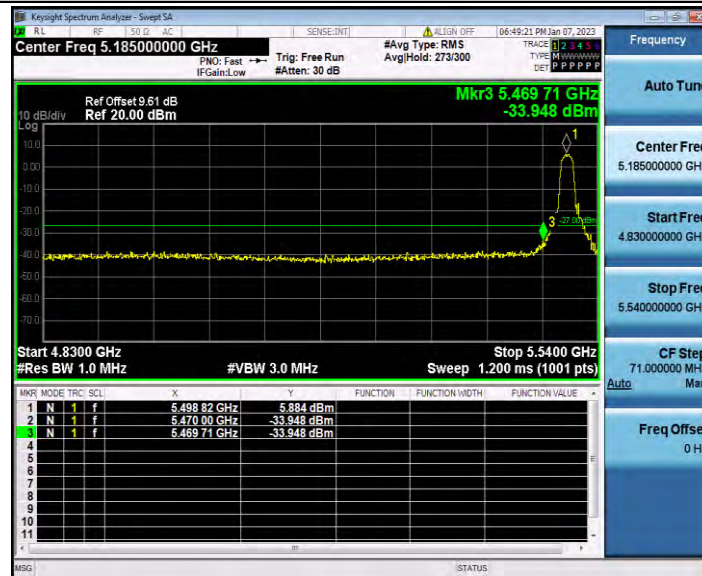
Appendix F.6: Band edge measurements

Test Result B3

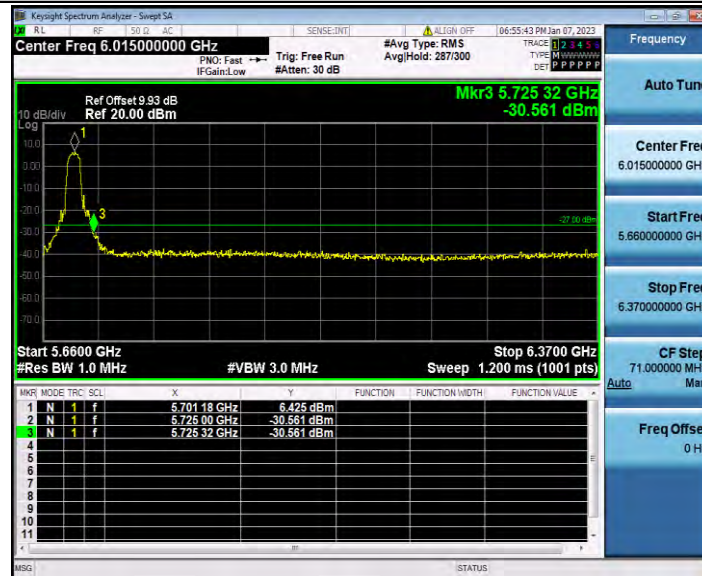
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5500	-33.95	≤-27	PASS
		High	5700	-30.56	≤-27	PASS
11N20SISO	Ant2	Low	5500	-32.83	≤-27	PASS
		High	5700	-28.75	≤-27	PASS
11N40SISO	Ant2	Low	5510	-27.24	≤-27	PASS
		High	5670	-31.22	≤-27	PASS
11AC20SISO	Ant2	Low	5500	-31.57	≤-27	PASS
		High	5700	-33.4	≤-27	PASS
11AC40SISO	Ant2	Low	5510	-28.3	≤-27	PASS
		High	5670	-38.2	≤-27	PASS
11AC80SISO	Ant2	Low	5530	-34.22	≤-27	PASS
		High	5610	-37.73	≤-27	PASS

Test Graphs B3

11A_Ant2_Low_5500



11A_Ant2_High_5700



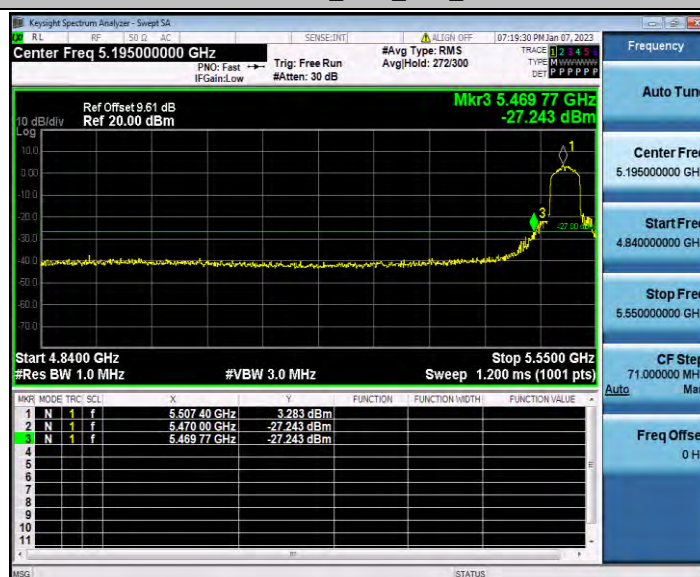
11N20SISO_Ant2_Low_5500



11N20SISO_Ant2_High_5700



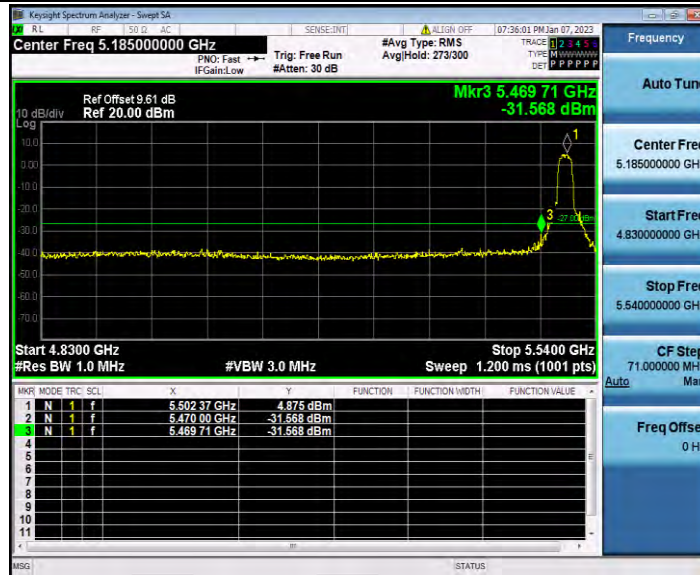
11N40SISO_Ant2_Low_5510



11N40SISO_Ant2_High_5670



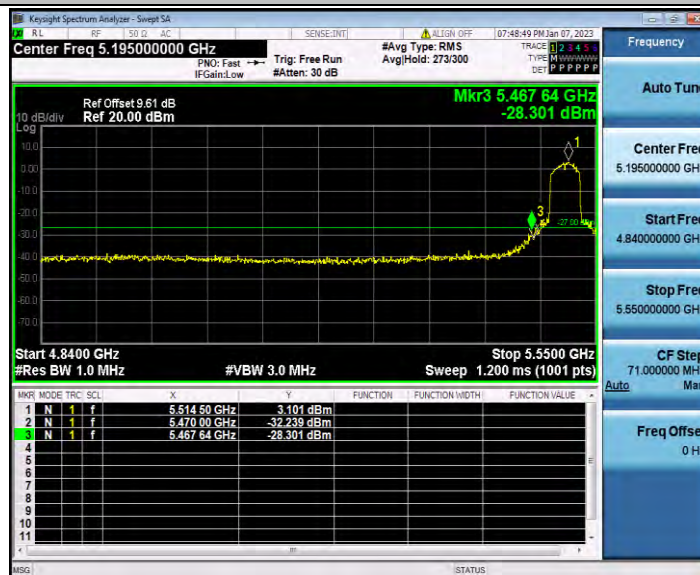
11AC20SISO_Ant2_Low_5500



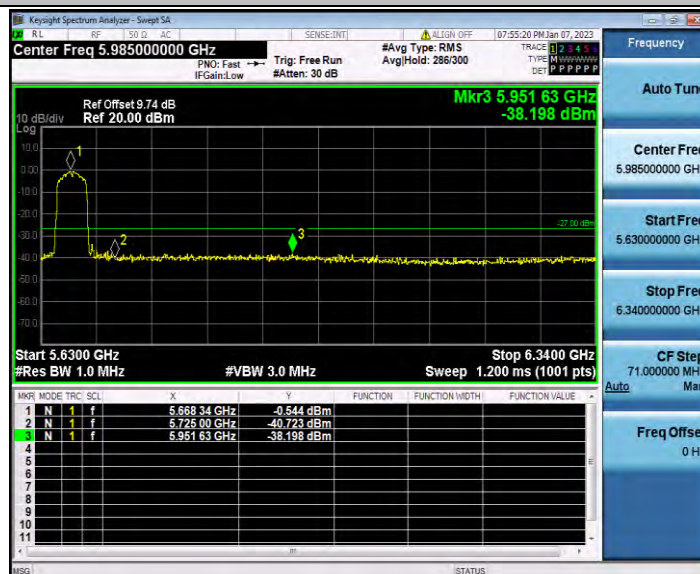
11AC20SISO_Ant2_High_5700



11AC40SISO_Ant2_Low_5510



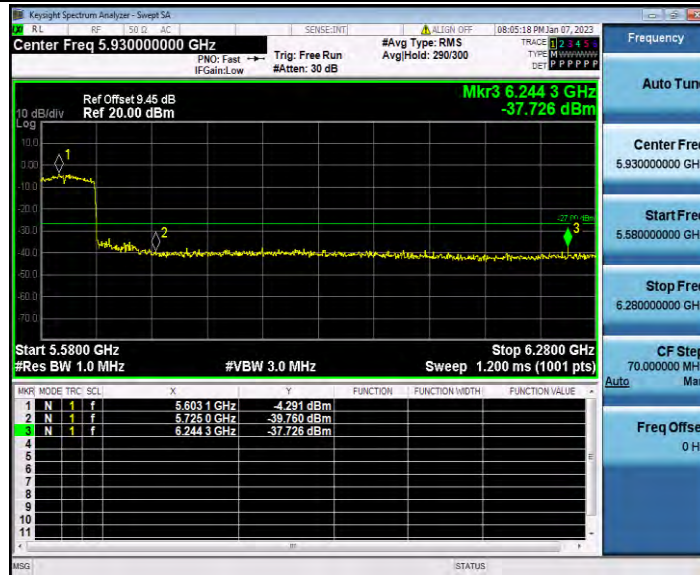
11AC40SISO_Ant2_High_5670



11AC80SISO_Ant2_Low_5530



11AC80SISO_Ant2_High_5610



Appendix F.7: Conducted Spurious Emission

Test Result

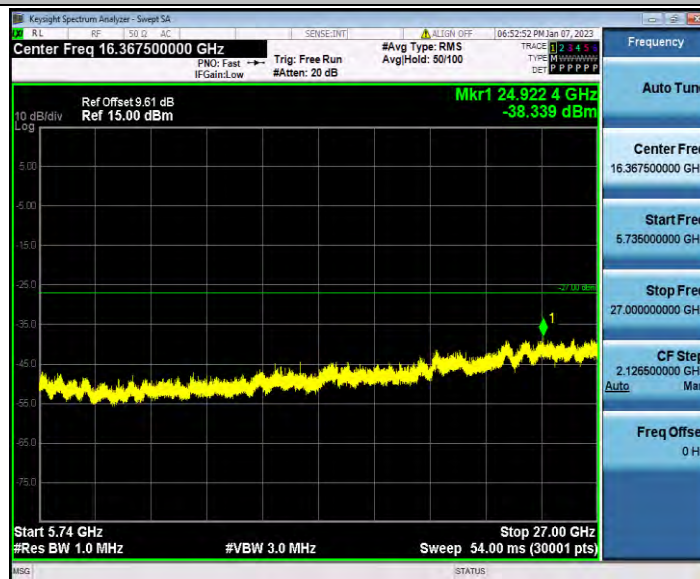
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5500	30~5460	5458.91	-43.04	≤-27	PASS
			5735~40000	24922.41	-38.34	≤-27	PASS
		5600	30~5460	5458.91	-46.66	≤-27	PASS
			5735~40000	25292.42	-38.18	≤-27	PASS
		5700	30~5460	5446.61	-47.11	≤-27	PASS
			5735~40000	24314.94	-36.95	≤-27	PASS
11N20SISO	Ant2	5500	30~5460	5458.01	-38.56	≤-27	PASS
			5735~40000	24263.9	-38.25	≤-27	PASS
		5600	30~5460	2510.24	-46.19	≤-27	PASS
			5735~40000	24876.34	-38.24	≤-27	PASS
		5700	30~5460	2705	-47.12	≤-27	PASS
			5735~40000	24886.97	-38.04	≤-27	PASS
11N40SISO	Ant2	5510	30~5460	5455.11	-32.99	≤-27	PASS
			5735~40000	25665.27	-37.48	≤-27	PASS
		5590	30~5460	2680.75	-46.12	≤-27	PASS
			5735~40000	26824.92	-38.48	≤-27	PASS
		5670	30~5460	3290.17	-46.2	≤-27	PASS
			5735~40000	23611.78	-37.81	≤-27	PASS
11AC20SISO	Ant2	5500	30~5460	5454.39	-43.79	≤-27	PASS
			5735~40000	23569.25	-38.04	≤-27	PASS
		5600	30~5460	3311.53	-46.1	≤-27	PASS
			5735~40000	24219.25	-38.72	≤-27	PASS
		5700	30~5460	5396.11	-46.7	≤-27	PASS
			5735~40000	24168.92	-37.79	≤-27	PASS
11AC40SISO	Ant2	5510	30~5460	5459.64	-36.53	≤-27	PASS
			5735~40000	26095.53	-38.05	≤-27	PASS
		5590	30~5460	5353.75	-47.25	≤-27	PASS
			5735~40000	26828.46	-37.92	≤-27	PASS
		5670	30~5460	3168.54	-46.62	≤-27	PASS
			5735~40000	26880.92	-38.03	≤-27	PASS
11AC80SISO	Ant2	5530	30~5460	5441.9	-36.56	≤-27	PASS
			5735~40000	24166.79	-37.39	≤-27	PASS
		5610	30~5460	3348.82	-46.76	≤-27	PASS
			5735~40000	24277.37	-38.16	≤-27	PASS

Test Graphs

11A_Ant2_5500_30~5460



11A_Ant2_5500_5735~40000



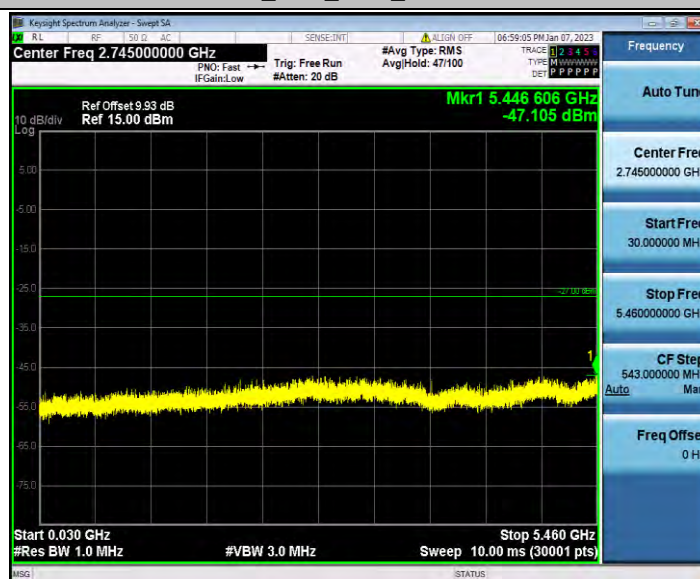
11A_Ant2_5600_30~5460



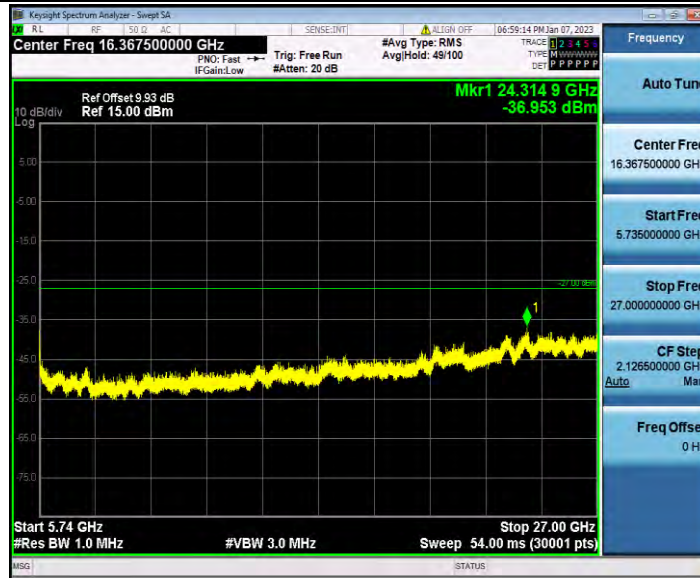
11A_Ant2_5600_5735~40000



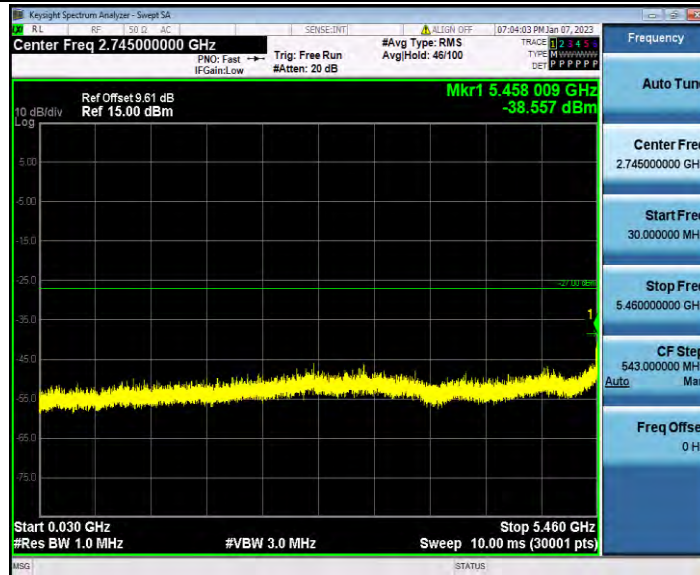
11A_Ant2_5700_30~5460



11A_Ant2_5700_5735~40000



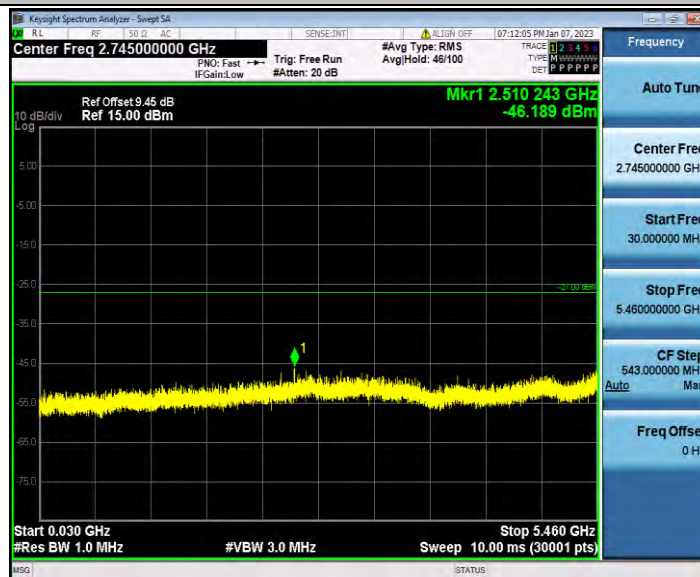
11N20SISO_Ant2_5500_30~5460



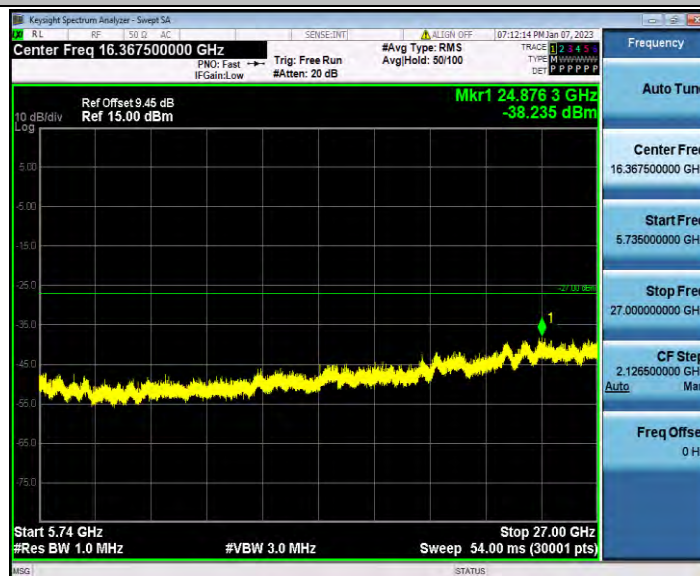
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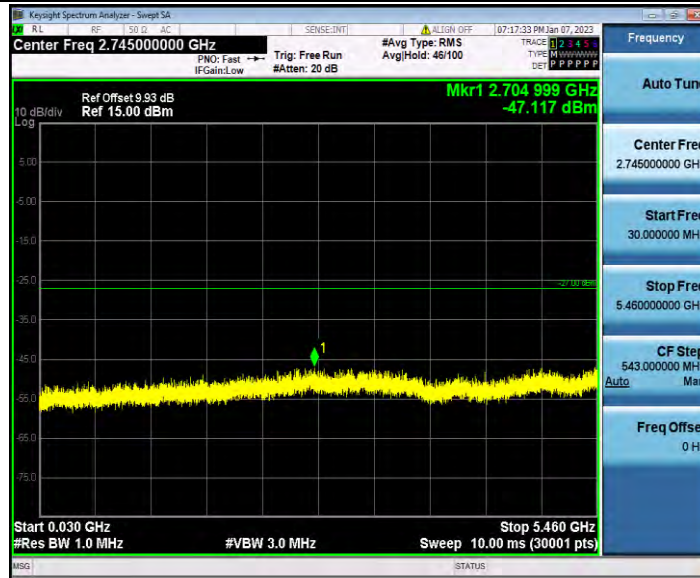
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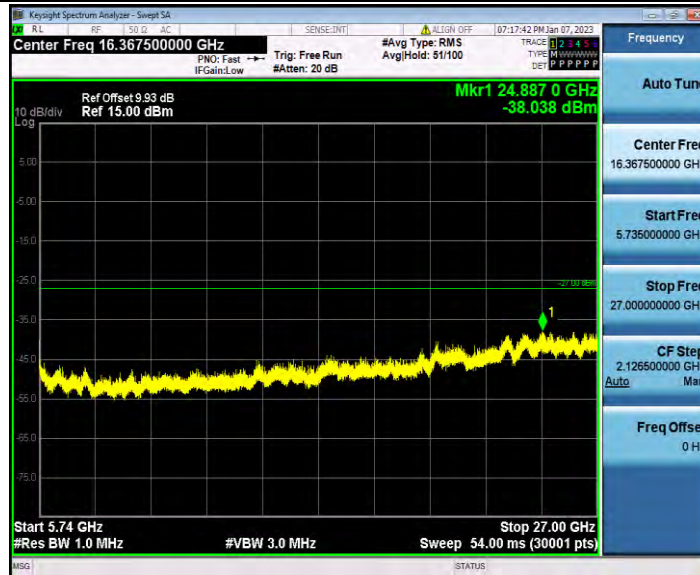
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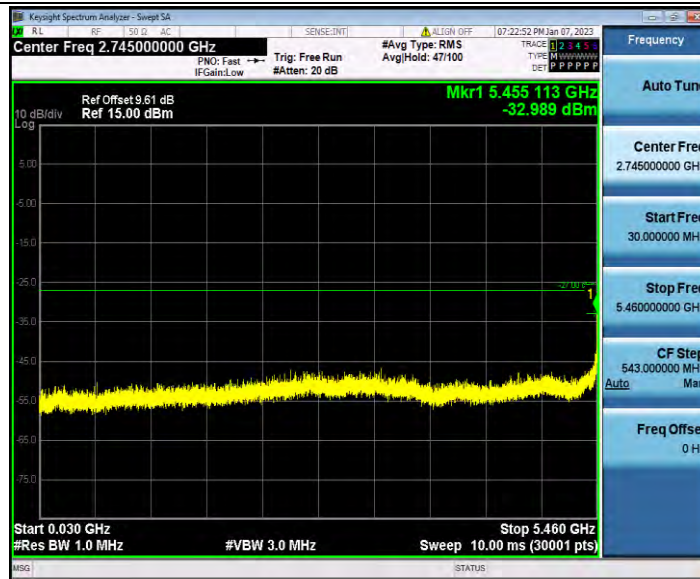
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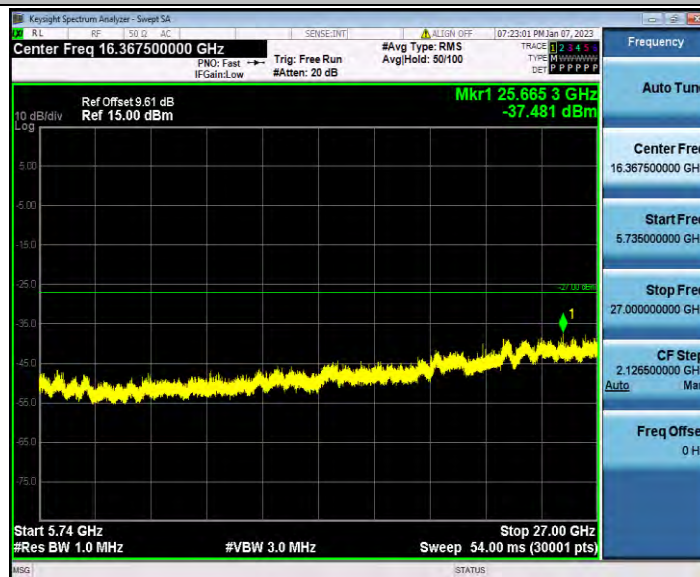
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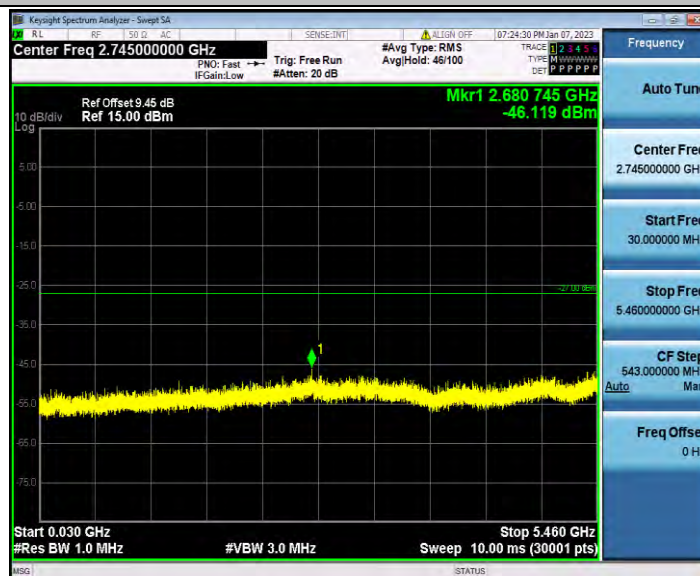
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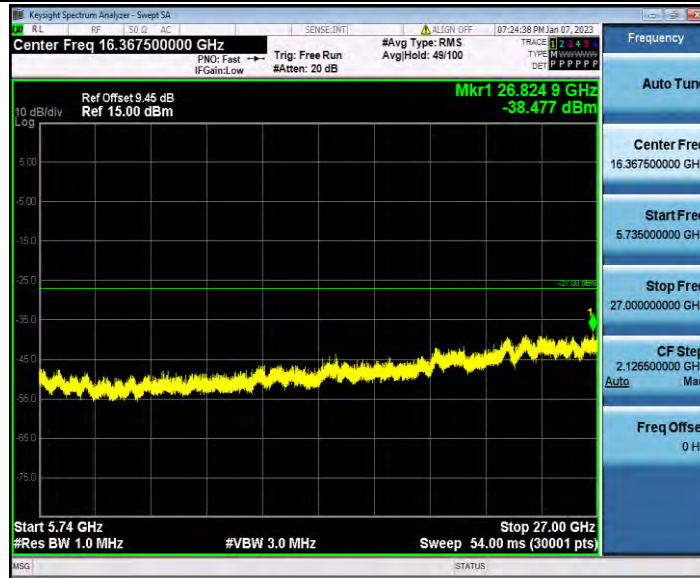
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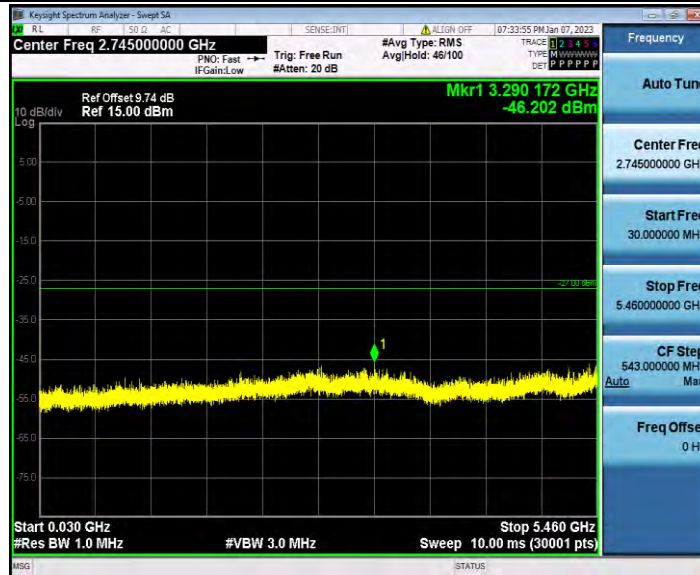
11N40SISO_Ant2_5590_30~5460



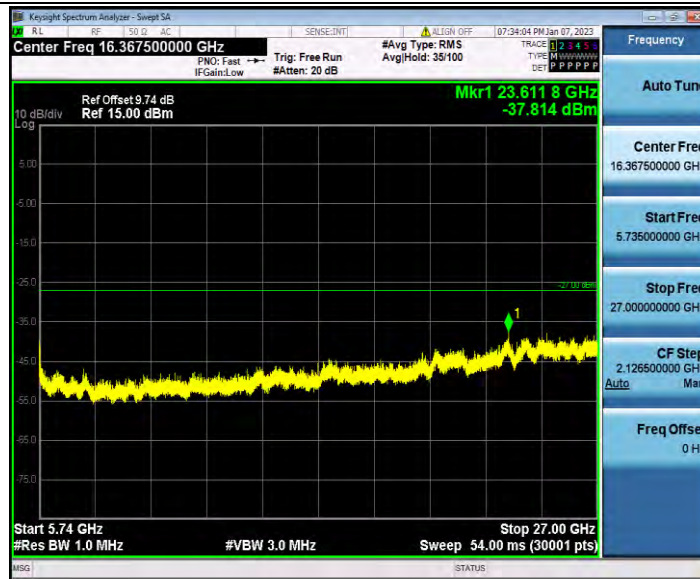
11N40SISO_Ant2_5590_5735~40000



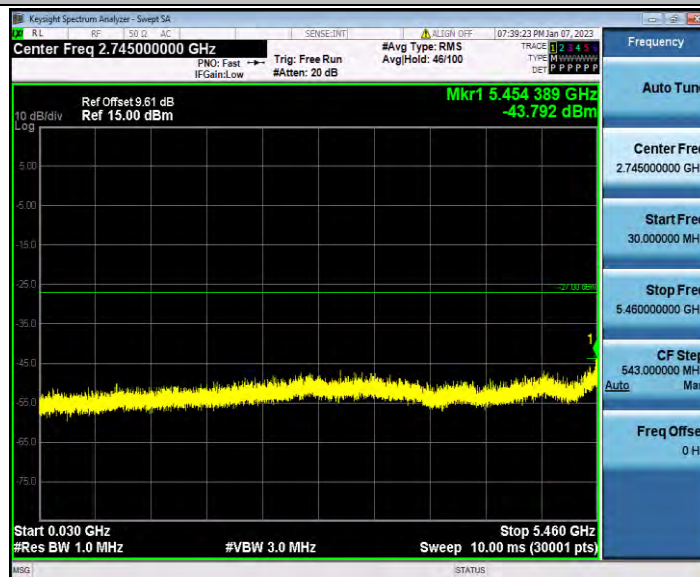
11N40SISO_Ant2_5670_30~5460



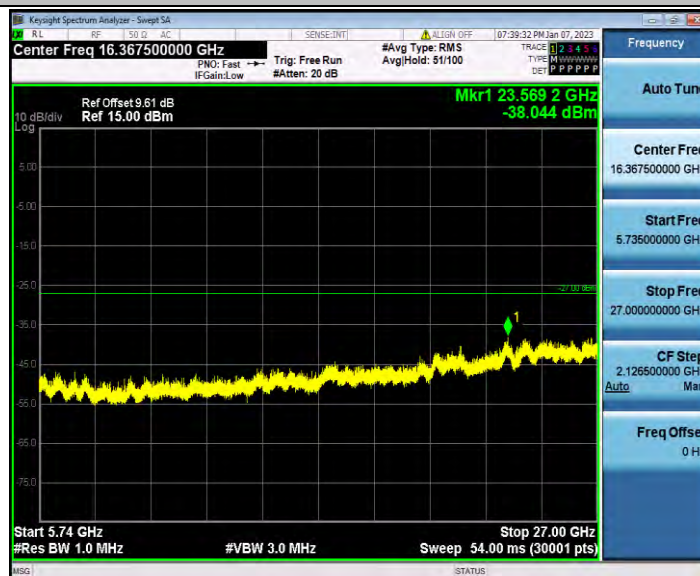
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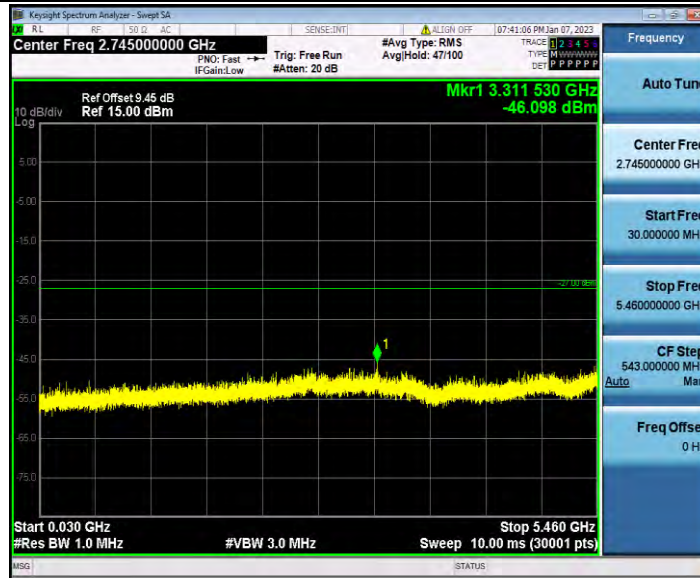
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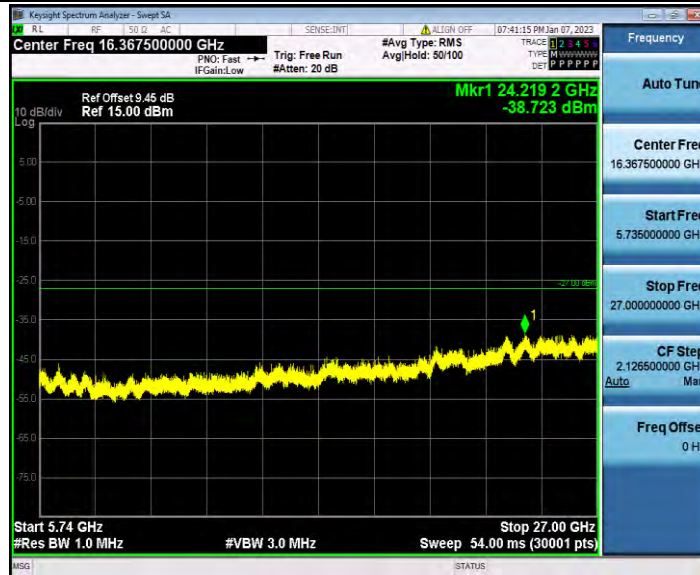
11AC20SISO_Ant2_5500_5735~40000



11AC20SISO_Ant2_5600_30~5460



11AC20SISO_Ant2_5600_5735~40000



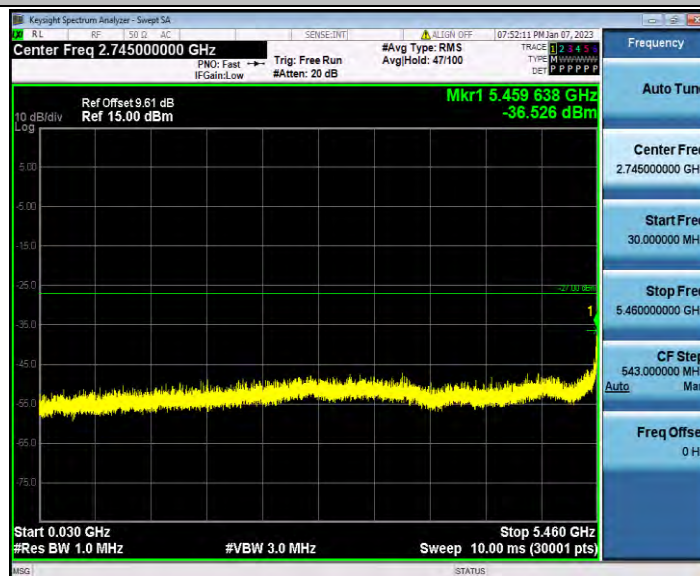
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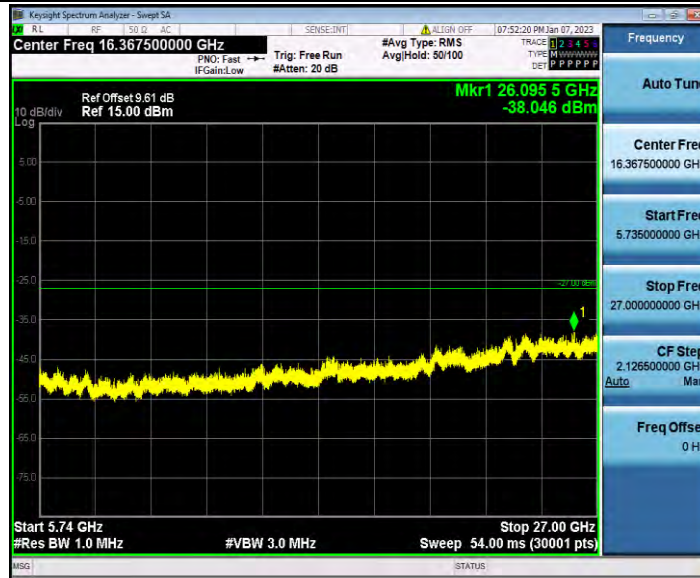
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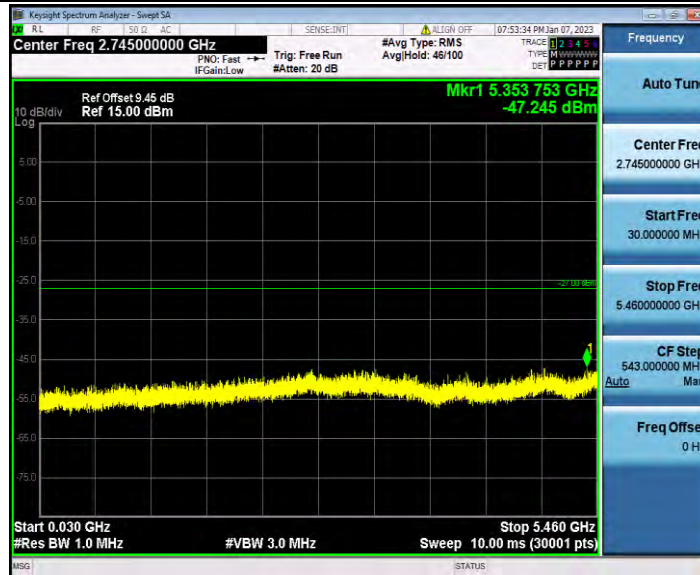
11AC40SISO_Ant2_5510_30~5460



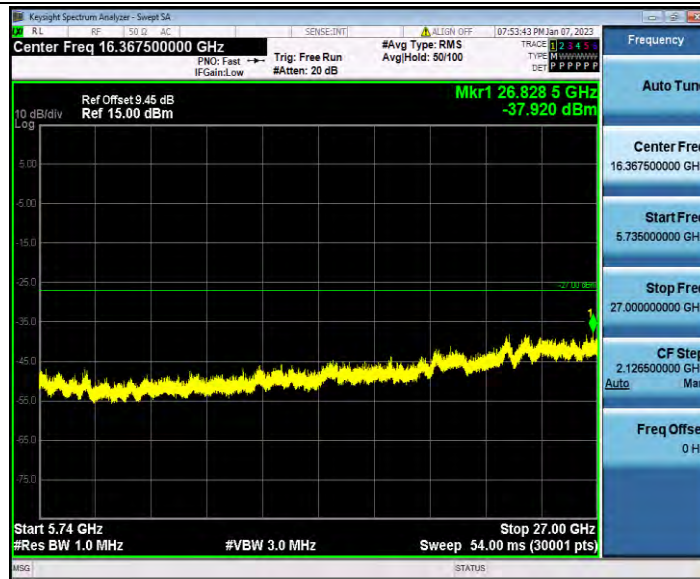
11AC40SISO_Ant2_5510_5735~40000



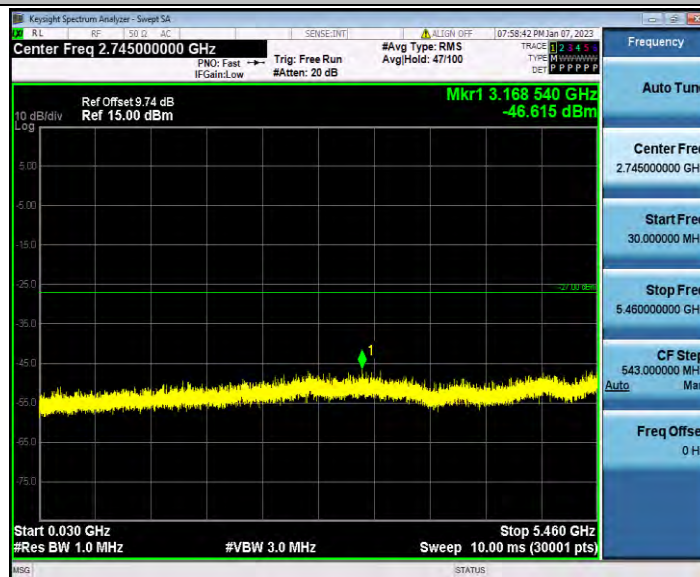
11AC40SISO_Ant2_5590_30~5460



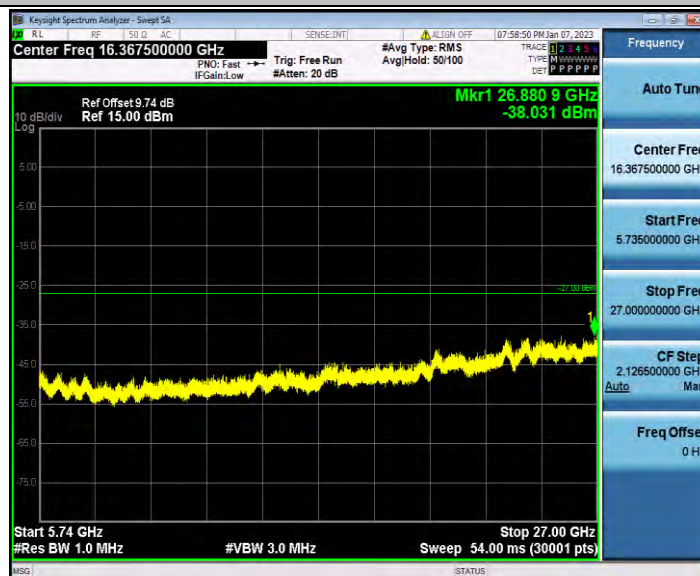
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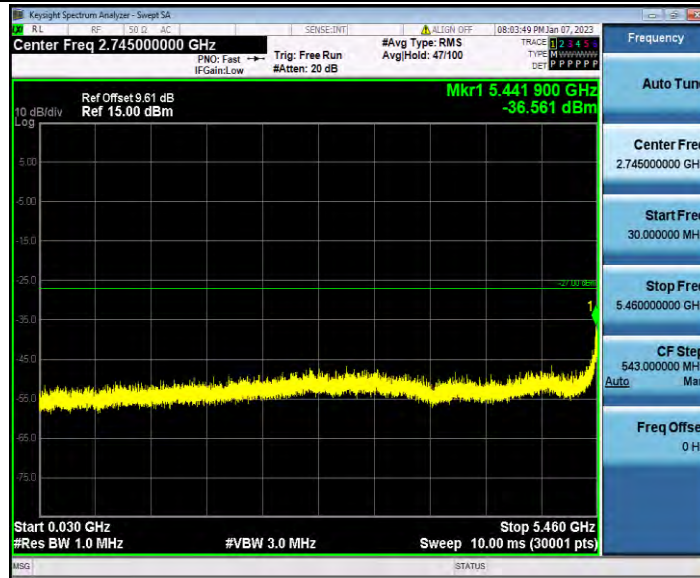
11AC40SISO_Ant2_5670_30~5460



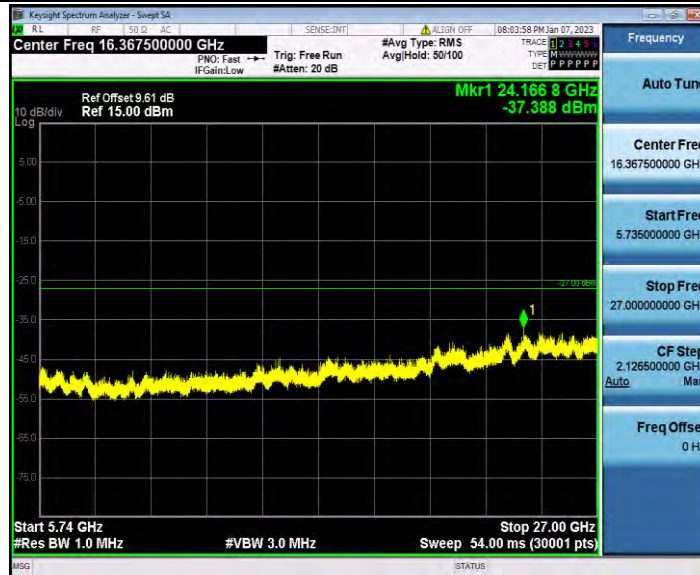
11AC40SISO_Ant2_5670_5735~40000



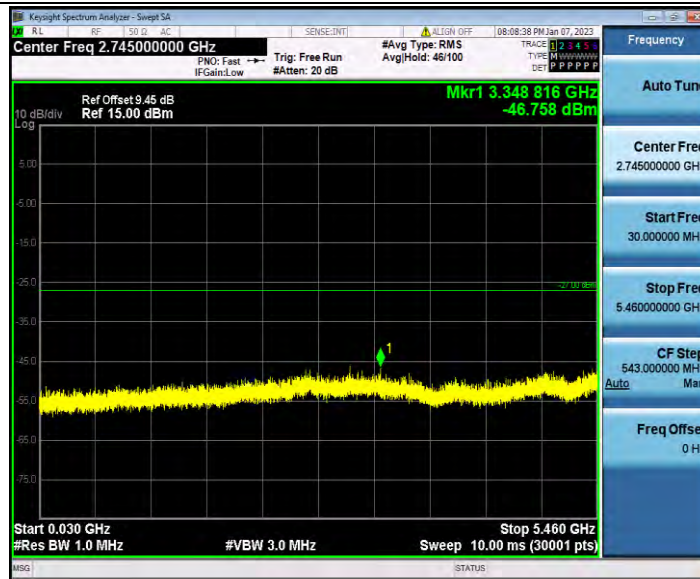
11AC80SISO_Ant2_5530_30~5460



11AC80SISO_Ant2_5530_5735~40000



11AC80SISO_Ant2_5610_30~5460



11AC80SISO_Ant2_5610_5735~40000

