

Case No. : <u>GTS20250325005-4-04</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2025.3.26</u>	Test Engineer: <u>Evan ouyang</u>

Appendix C.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.800	5170.000	5189.800	---	---
		5200	22.080	5189.880	5211.960	---	---
		5240	22.480	5229.840	5252.320	---	---
11N20SISO	Ant1	5180	20.680	5169.640	5190.320	---	---
		5200	20.520	5189.840	5210.360	---	---
		5240	20.600	5229.720	5250.320	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



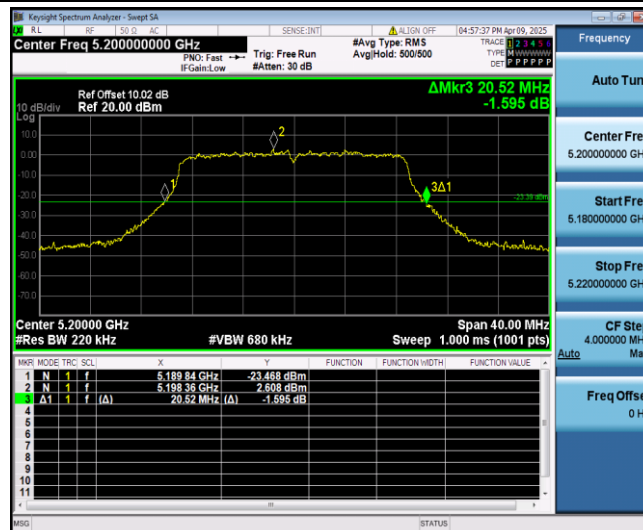
11A_Ant1_5240



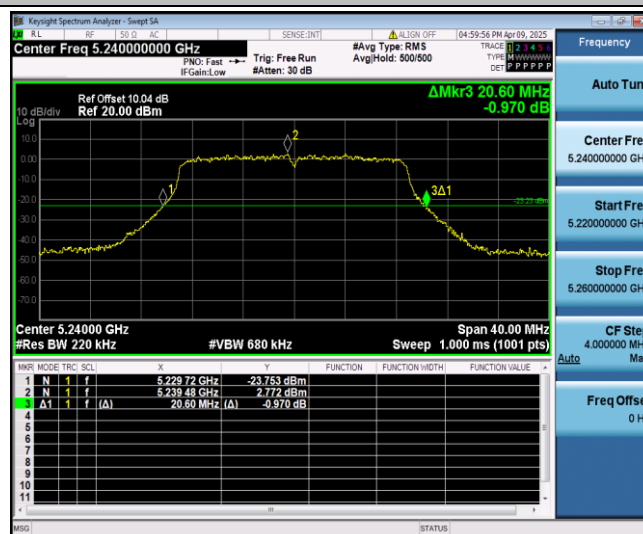
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



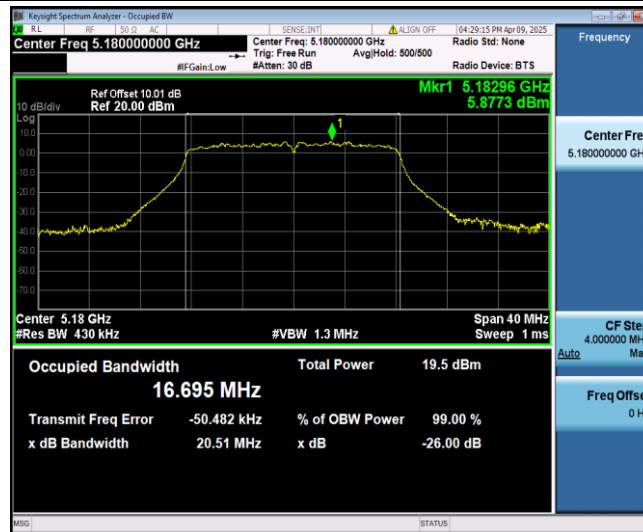
Appendix C.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.695	5171.6020	5188.2970	---	---
		5200	17.114	5191.5643	5208.6783	---	---
		5240	16.966	5231.5179	5248.4839	---	---
11N20SISO	Ant1	5180	17.787	5171.0528	5188.8398	---	---
		5200	17.738	5191.1023	5208.8403	---	---
		5240	17.767	5231.0443	5248.8113	---	---

Test Graphs

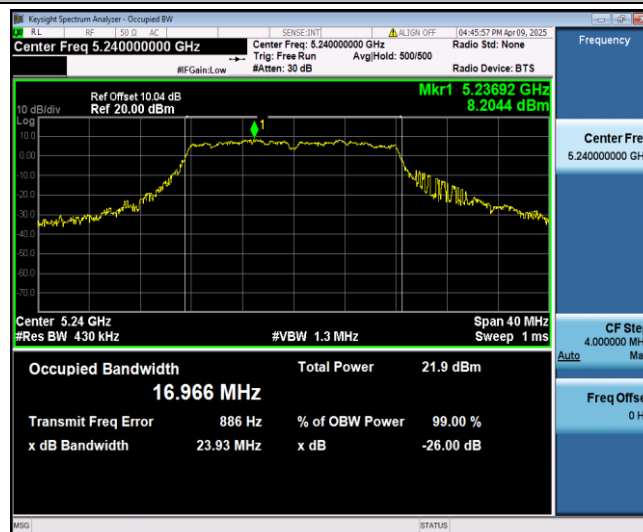
11A_Ant1_5180



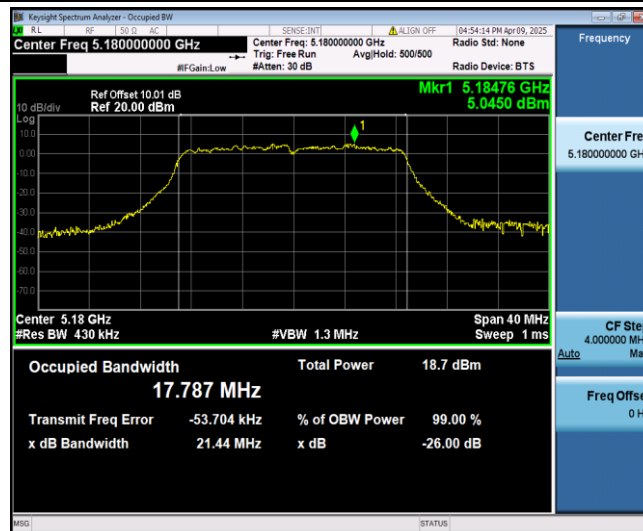
11A_Ant1_5200



11A_Ant1_5240



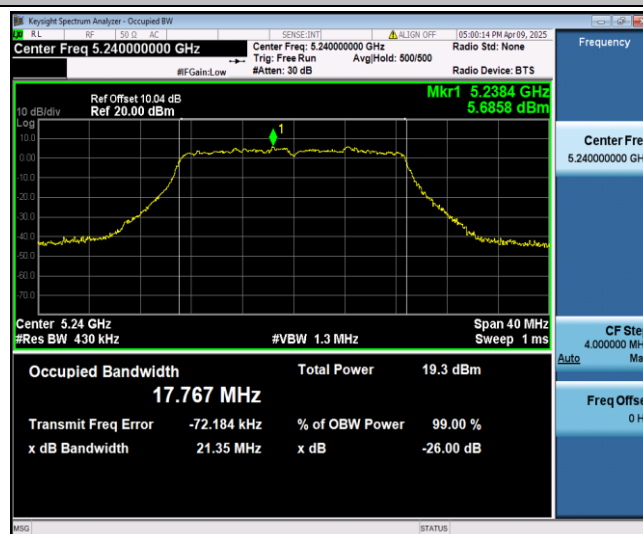
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



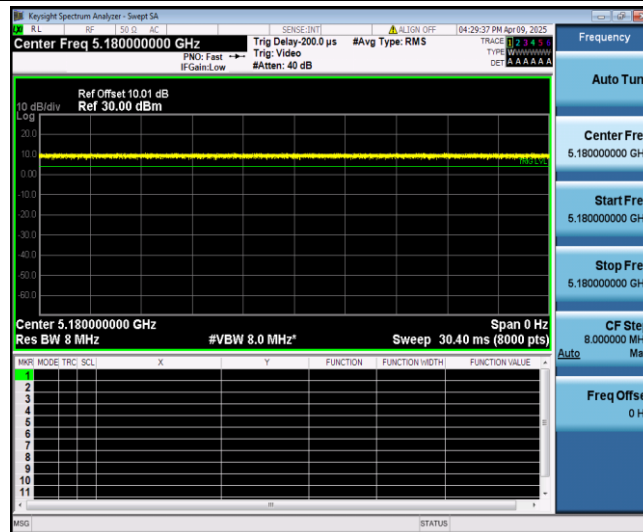
Appendix C.3: Duty Cycle

Test Result

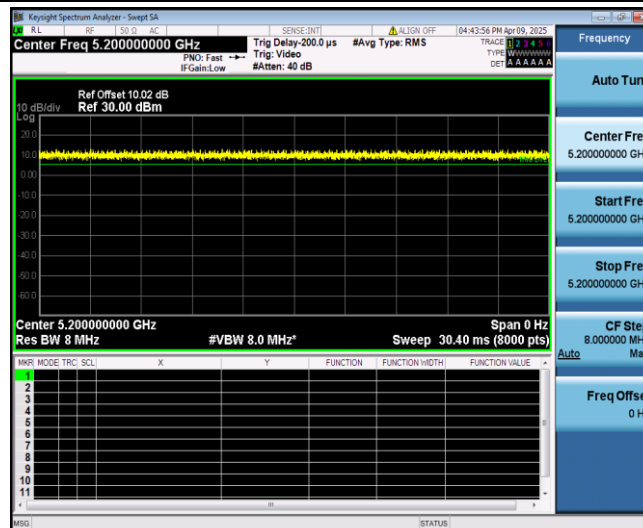
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03

Test Graphs

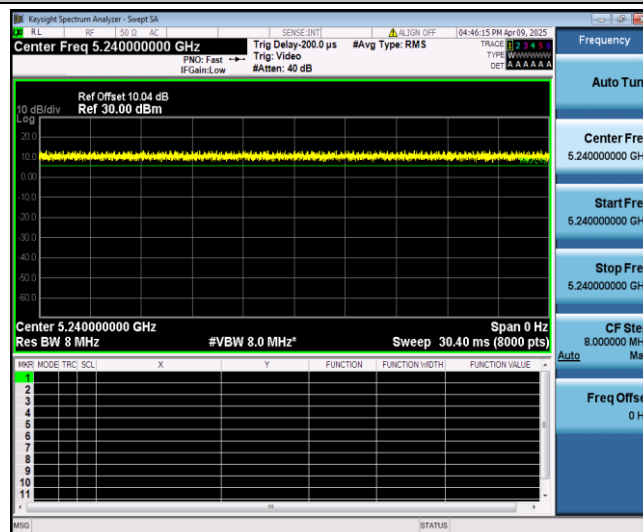
11A_Ant1_5180



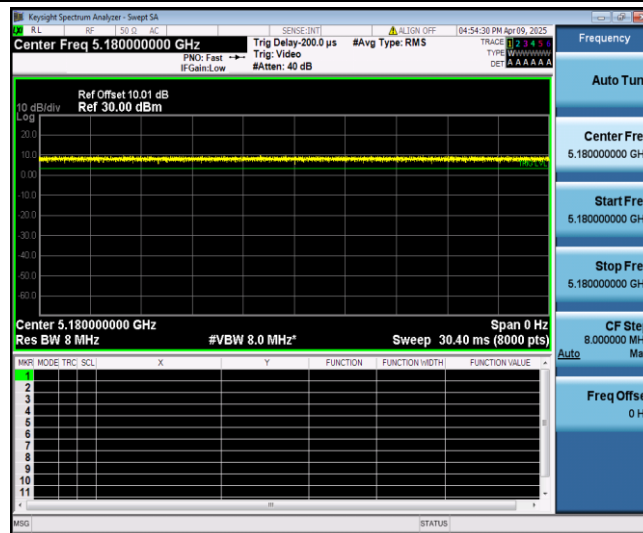
11A_Ant1_5200



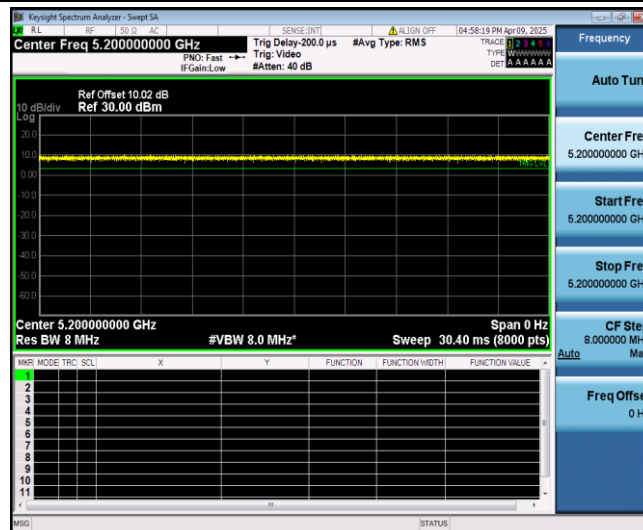
11A_Ant1_5240



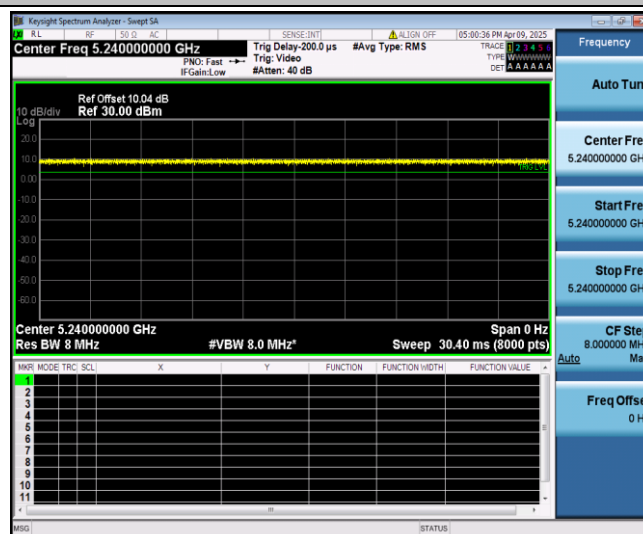
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



Appendix C.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	16.48	100.00	0.00	16.48	≤23.51	PASS
		5200	16.28	100.00	0.00	16.28	≤23.51	PASS
		5240	16.71	100.00	0.00	16.71	≤23.51	PASS
11N20SISO	Ant1	5180	16.53	100.00	0.00	16.53	≤23.51	PASS
		5200	16.88	100.00	0.00	16.88	≤23.51	PASS
		5240	16.17	100.00	0.00	16.17	≤23.51	PASS

Appendix C.5: Maximum power spectral density

Test Result

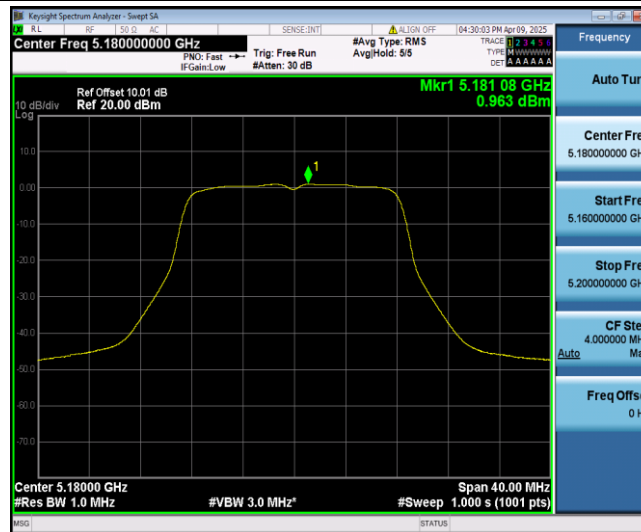
TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.96	≤10.53	PASS
		5200	2.61	≤10.53	PASS
		5240	3.19	≤10.53	PASS
11N20SISO	Ant1	5180	-0.29	≤10.53	PASS
		5200	0.08	≤10.53	PASS
		5240	0.55	≤10.53	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

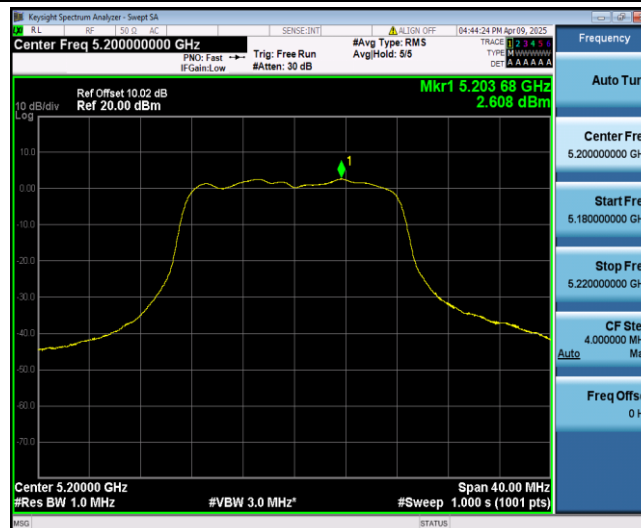
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

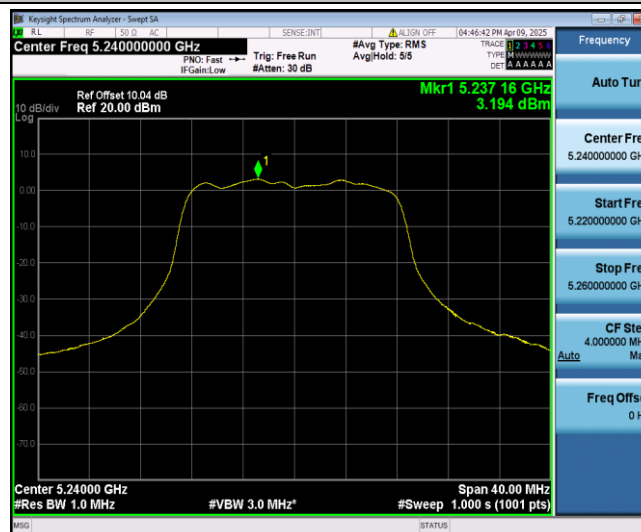
11A_Ant1_5180



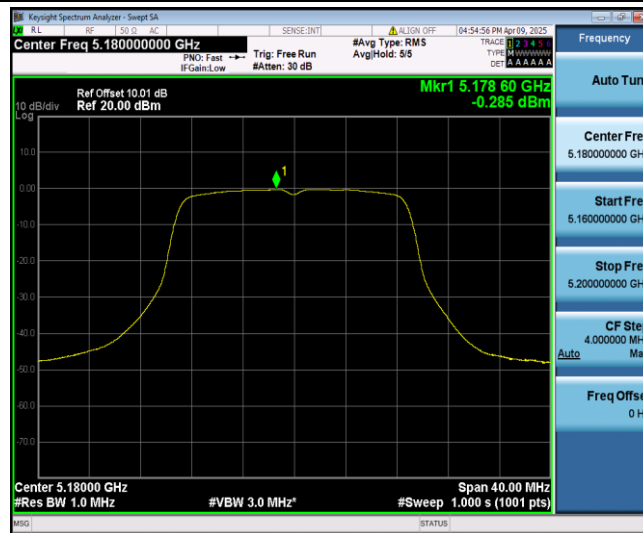
11A_Ant1_5200



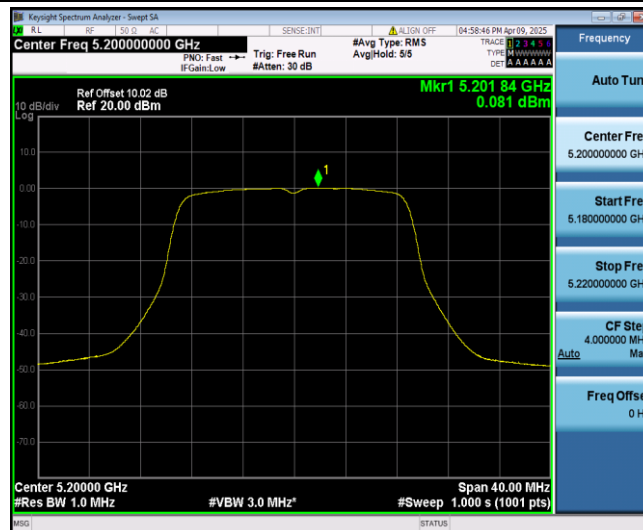
11A_Ant1_5240



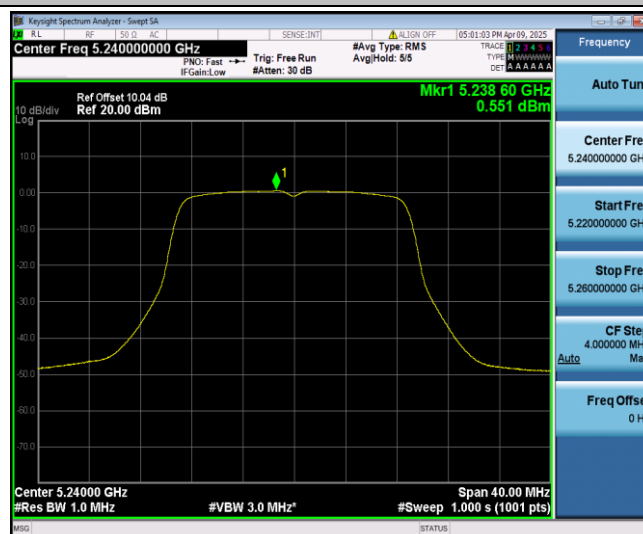
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



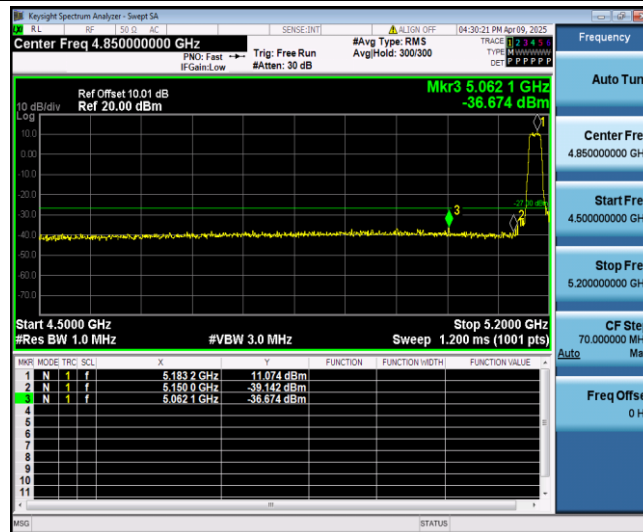
Appendix C.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.67	≤ -27	PASS
		High	5240	-37.65	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-37.04	≤ -27	PASS
		High	5240	-37.11	≤ -27	PASS

Test Graphs B1

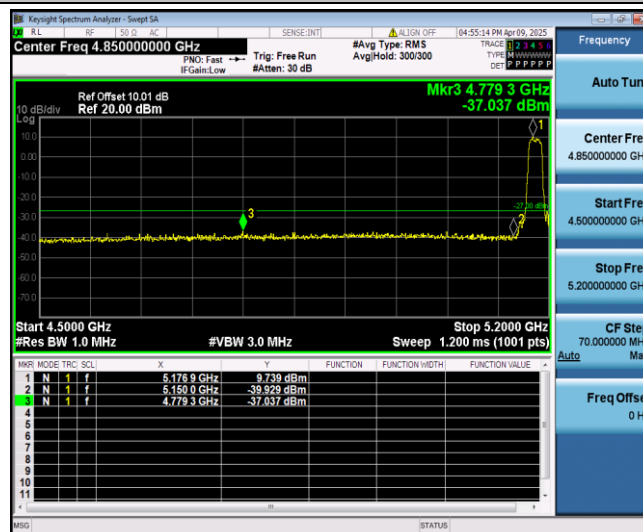
11A_Ant1_Low_5180



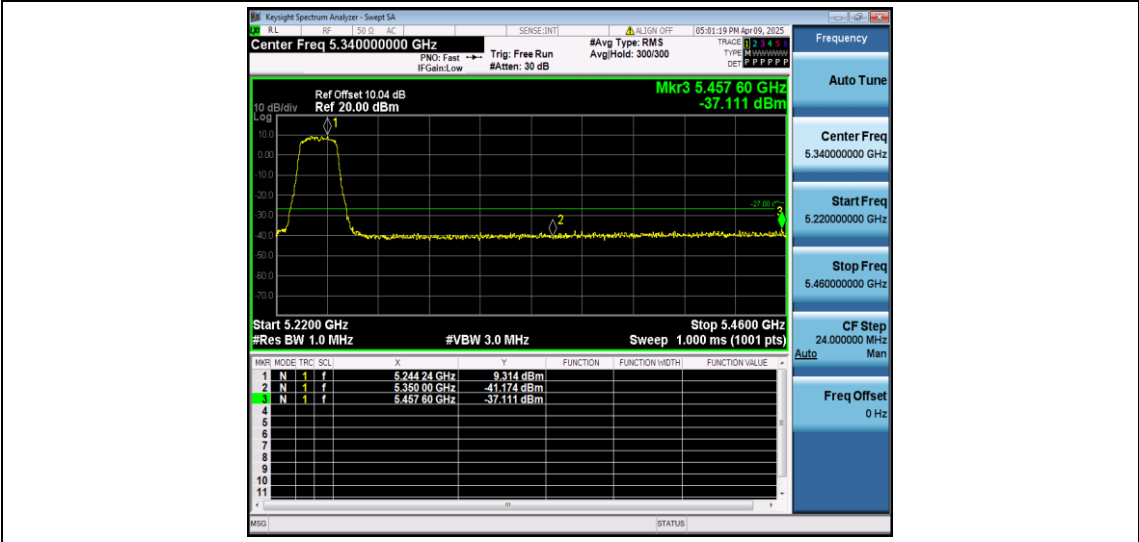
11A_Ant1_High_5240



11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



Appendix C.7: Conducted Spurious Emission

Test Result

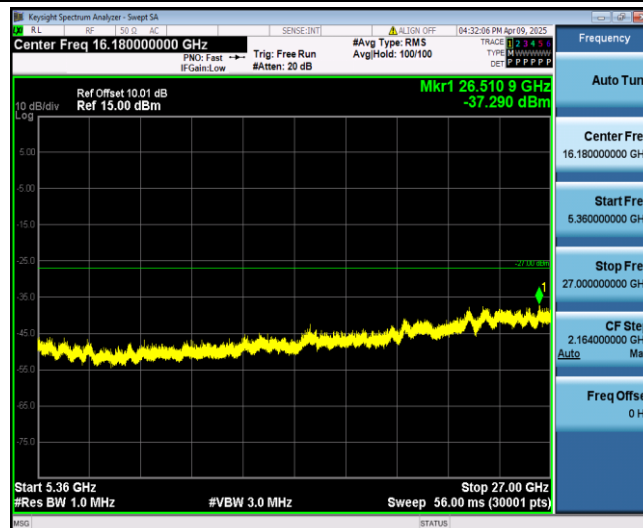
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5002.88	-46.08	≤-27	PASS
			5360~27000	26510.94	-37.29	≤-27	PASS
		5200	30~5140	2518.91	-35.06	≤-27	PASS
			5360~27000	24770.36	-36.62	≤-27	PASS
		5240	30~5140	2600.67	-36.67	≤-27	PASS
			5360~27000	24238.01	-36.71	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5087.54	-46.07	≤-27	PASS
			5360~27000	26580.18	-37.06	≤-27	PASS
		5200	30~5140	1761.44	-44	≤-27	PASS
			5360~27000	23522.45	-37.27	≤-27	PASS
		5240	30~5140	4899.49	-46.36	≤-27	PASS
			5360~27000	26609.76	-36.63	≤-27	PASS

Test Graphs

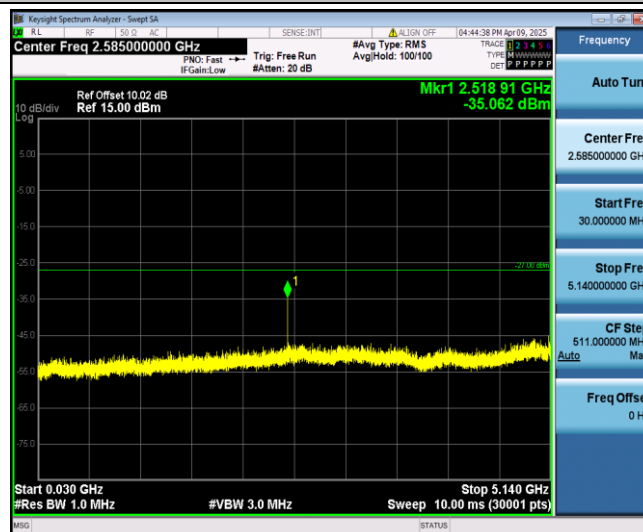
11A_Ant1_5180_30-5140



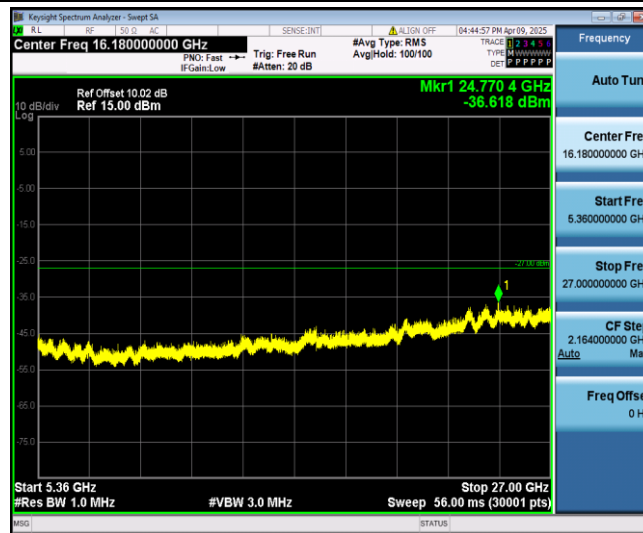
11A_Ant1_5180_5360-27000



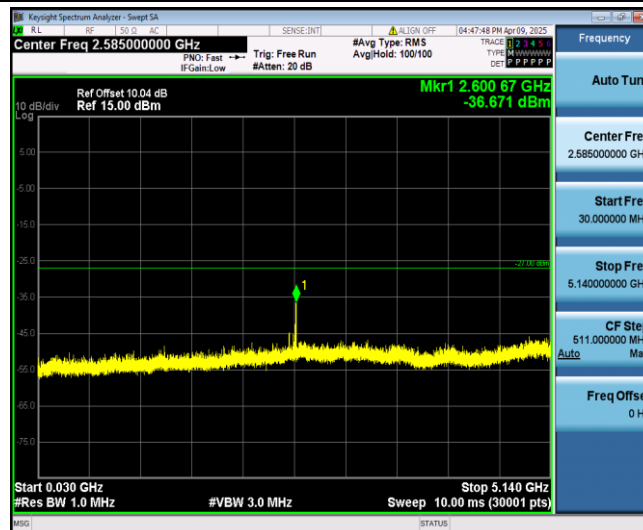
11A_Ant1_5200_30-5140



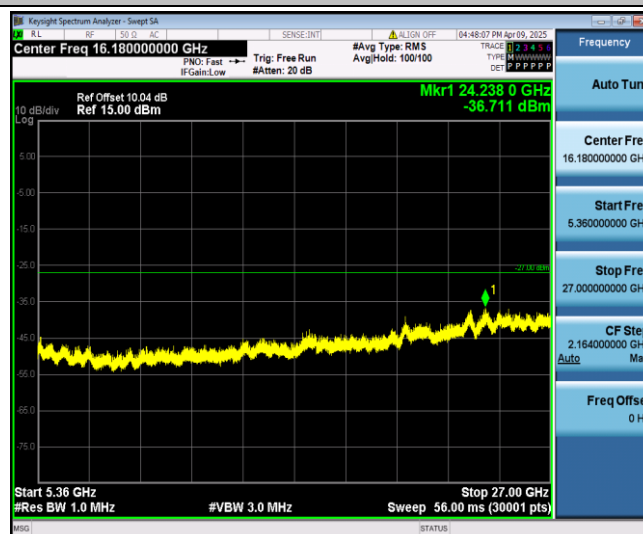
11A_Ant1_5200_5360-27000



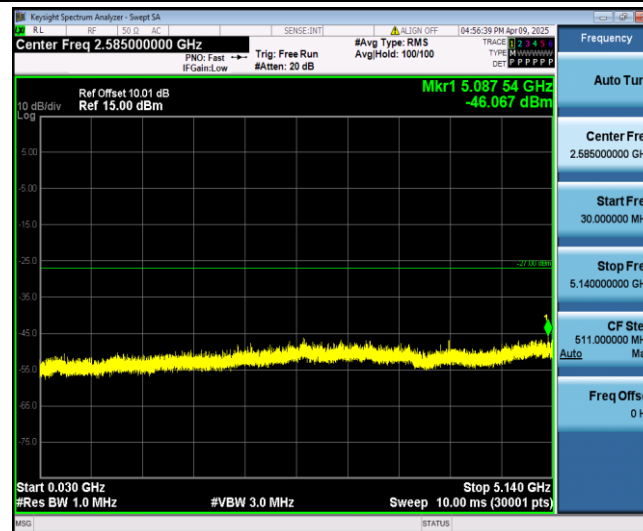
11A_Ant1_5240_30~5140



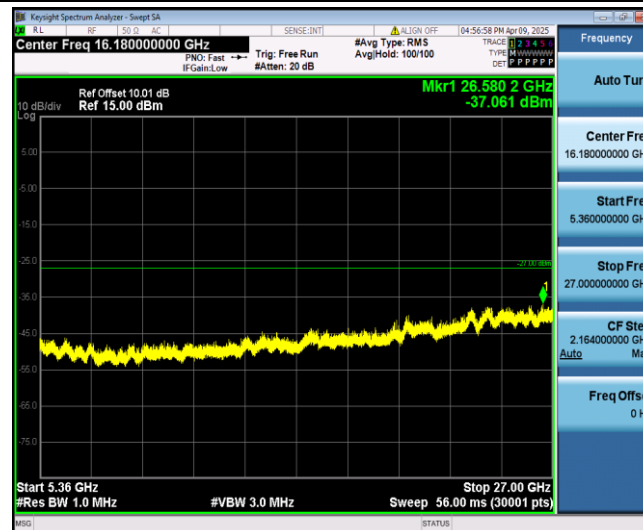
11A_Ant1_5240_5360~27000



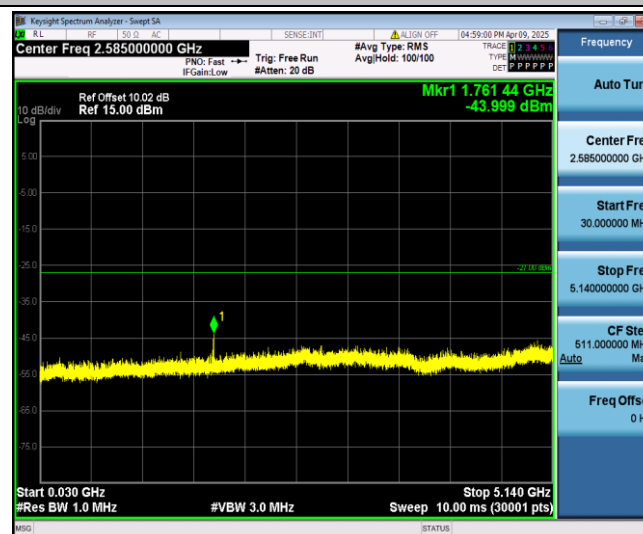
11N20SISO_Ant1_5180_30~5140



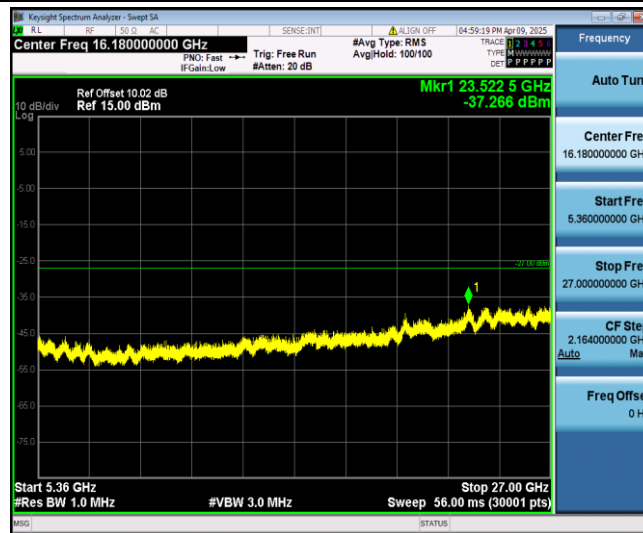
11N20SISO_Ant1_5180_5360~27000



11N20SISO_Ant1_5200_30~5140



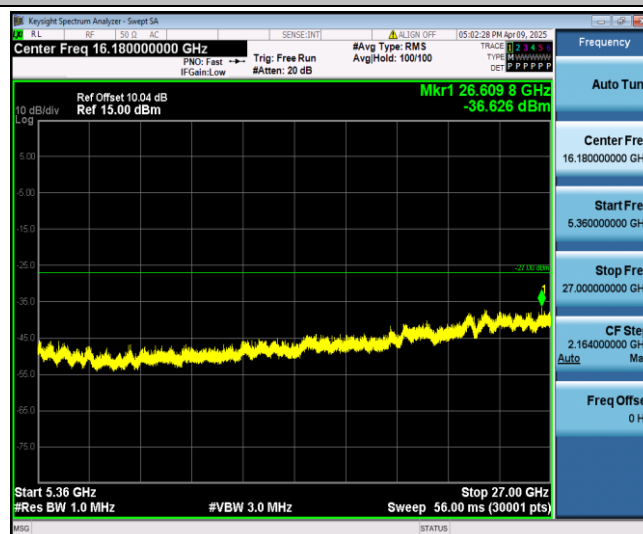
11N20SISO_Ant1_5200_5360~27000



11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~27000



Appendix C.8: Emissions in Restricted Bands

Test Result

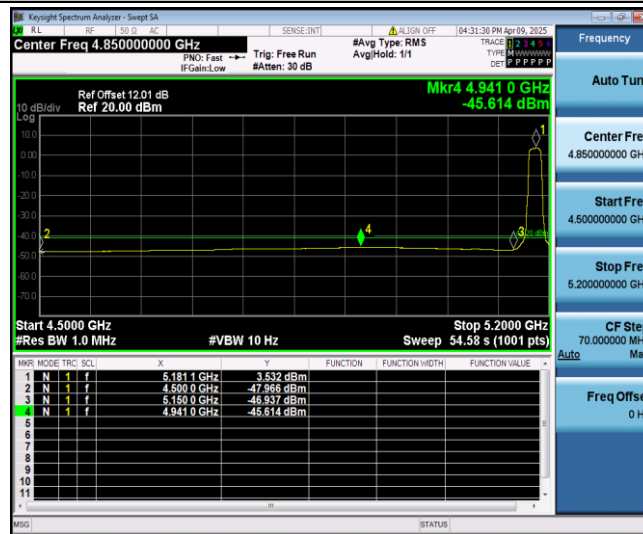
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-47.97	≤-41.20	47.23	≤54	PASS
				AV	4941.000	-45.61	≤-41.20	49.59	≤54	PASS
				AV	5150.000	-46.94	≤-41.20	48.26	≤54	PASS
				Peak	4500.000	-44.47	≤-21.20	50.73	≤74	PASS
				Peak	5068.400	-36.47	≤-21.20	58.73	≤74	PASS
				Peak	5150.000	-41.49	≤-21.20	53.71	≤74	PASS
		High	5240	AV	5350.000	-46.72	≤-41.20	48.48	≤54	PASS
				AV	5459.760	-45.73	≤-41.20	49.47	≤54	PASS
				AV	5460.000	-45.74	≤-41.20	49.46	≤54	PASS
				Peak	5350.000	-42.11	≤-21.20	53.09	≤74	PASS
				Peak	5436.960	-36.85	≤-21.20	58.35	≤74	PASS
				Peak	5460.000	-45.13	≤-21.20	50.07	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-47.88	≤-41.20	47.32	≤54	PASS
				AV	4944.500	-45.59	≤-41.20	49.61	≤54	PASS
				AV	5150.000	-46.93	≤-41.20	48.27	≤54	PASS
				Peak	4500.000	-43.19	≤-21.20	52.01	≤74	PASS
				Peak	4689.000	-36.39	≤-21.20	58.81	≤74	PASS
				Peak	5150.000	-42.01	≤-21.20	53.19	≤74	PASS
		High	5240	AV	5350.000	-46.71	≤-41.20	48.49	≤54	PASS
				AV	5450.880	-45.77	≤-41.20	49.43	≤54	PASS
				AV	5460.000	-45.8	≤-41.20	49.40	≤54	PASS
				Peak	5350.000	-47.88	≤-21.20	47.32	≤74	PASS
				Peak	5409.840	-36.61	≤-21.20	58.59	≤74	PASS
				Peak	5460.000	-44.99	≤-21.20	50.21	≤74	PASS

Note:

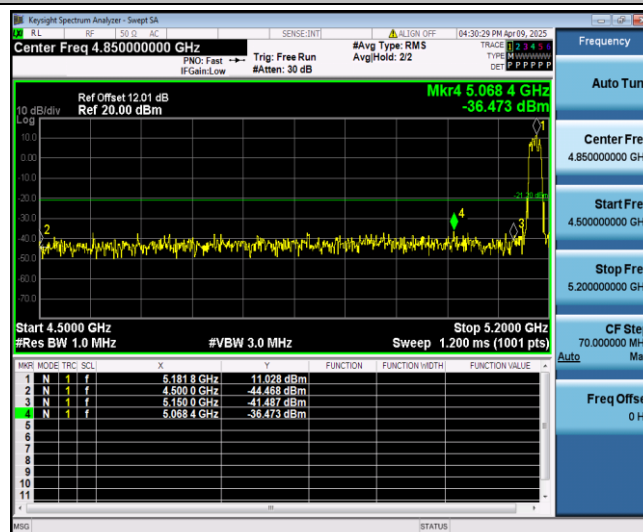
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

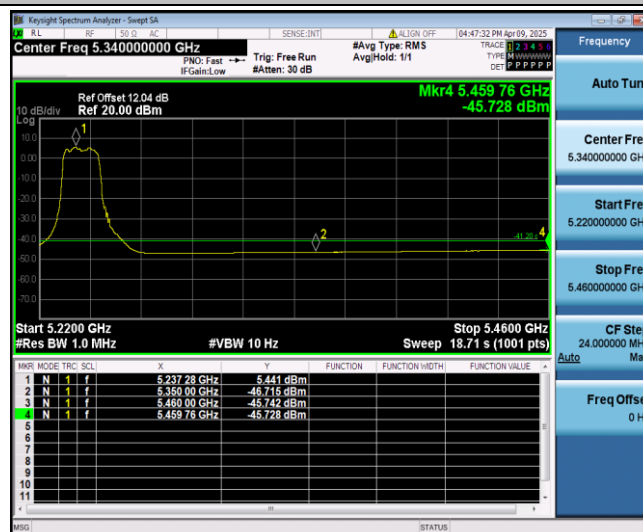
11A_Ant1_Low_5180_AV



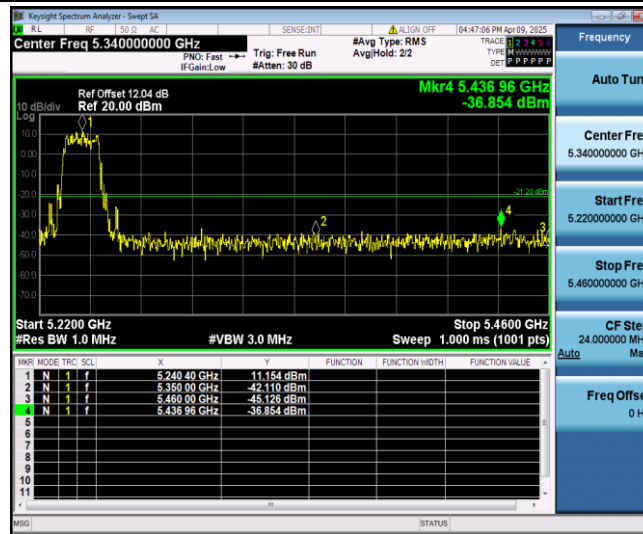
11A_Ant1_Low_5180_Peak



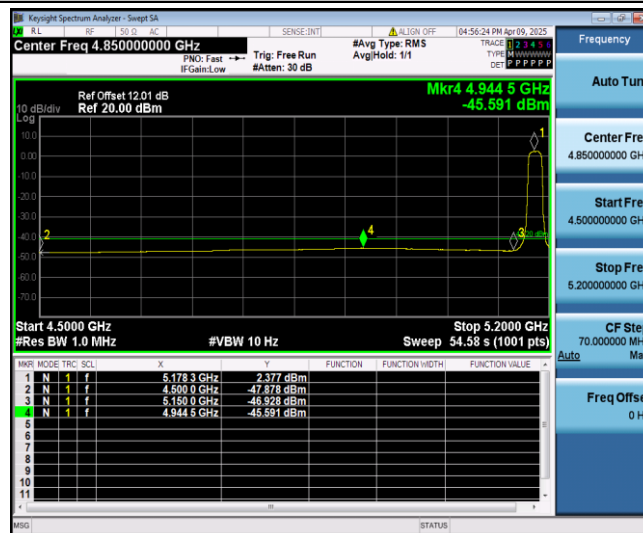
11A_Ant1_High_5240_AV



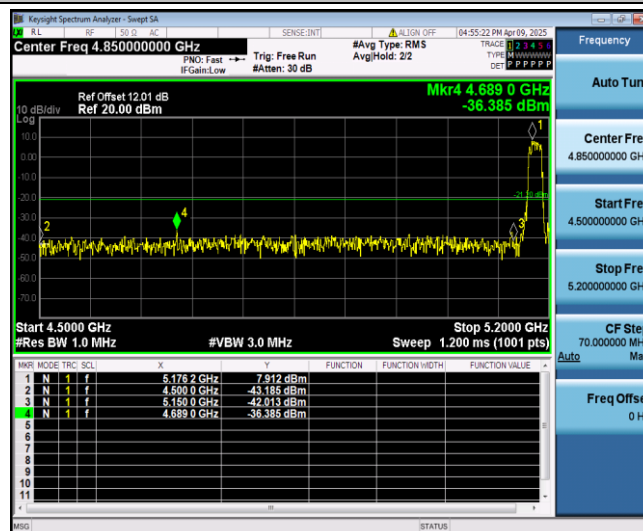
11A_Ant1_High_5240_Peak



11N20SISO_Ant1_Low_5180_AV



11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV

