

Case No. : <u>CTA24061301903</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.6.4</u>	Test Engineer: <u>Lushan Kong</u>

Appendix B.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	19.480	5170.240	5189.720
		5200	19.400	5190.240	5209.640
		5240	19.560	5230.120	5249.680
11N20SISO	Ant1	5180	20.320	5169.920	5190.240
		5200	20.280	5189.920	5210.200
		5240	20.520	5229.720	5250.240

Test Graphs

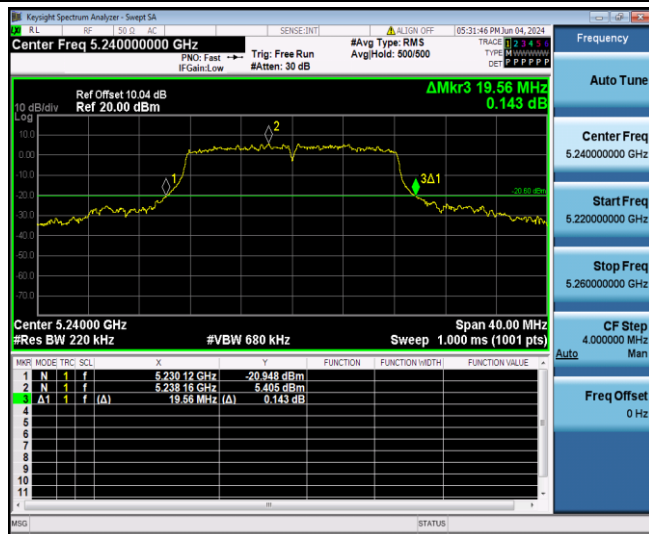
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



Appendix B.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	16.718	5171.6383	5188.3563
		5200	16.709	5191.6357	5208.3447
		5240	16.721	5231.6117	5248.3327
11N20SISO	Ant1	5180	17.784	5171.0933	5188.8773
		5200	17.761	5191.0955	5208.8565
		5240	17.770	5231.0786	5248.8486

Test Graphs

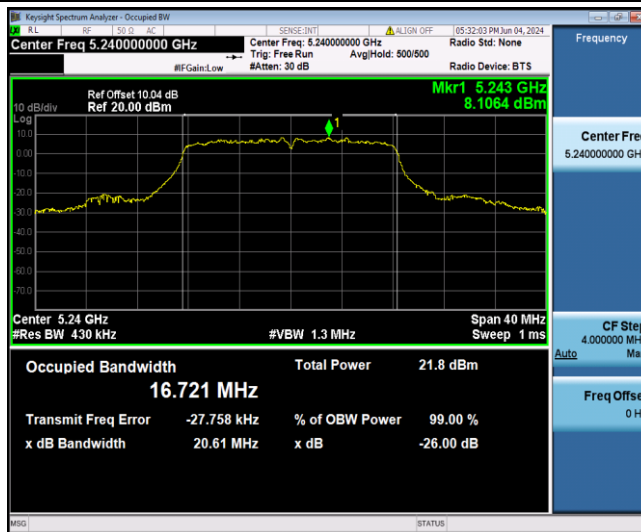
11A_Ant1_5180



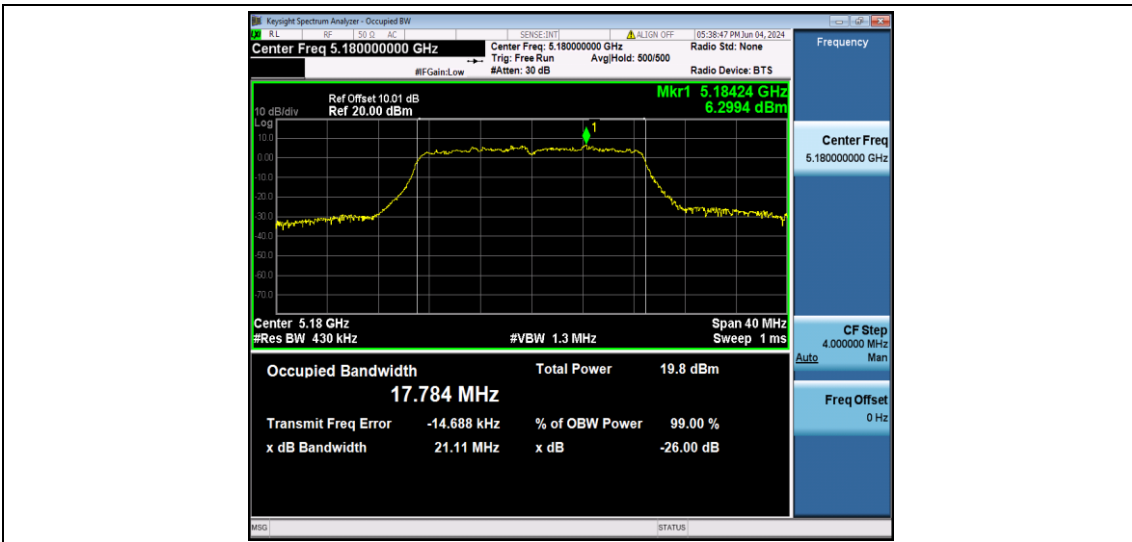
11A_Ant1_5200



11A_Ant1_5240



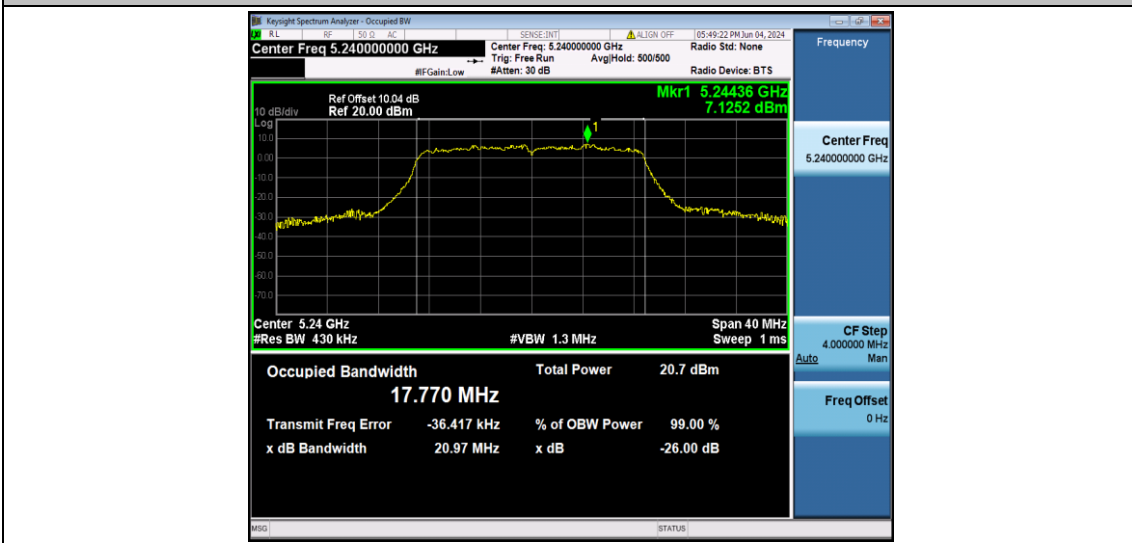
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



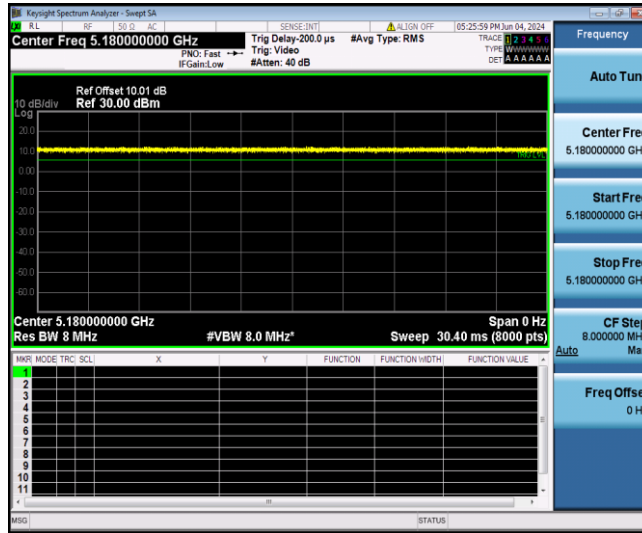
Appendix B.3 : Duty Cycle

Test Result

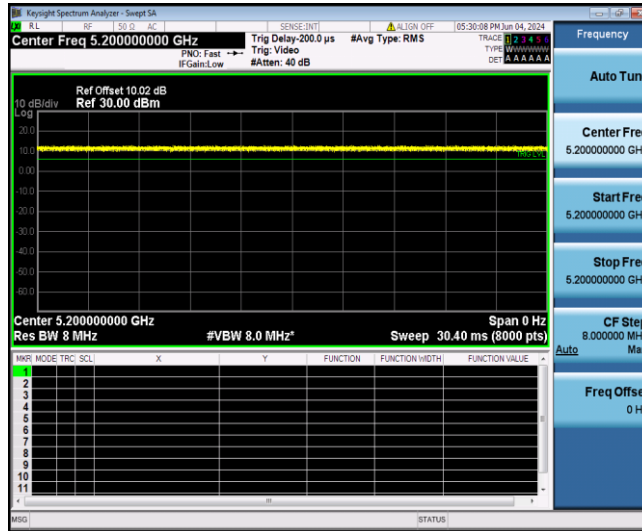
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200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

Test Graphs

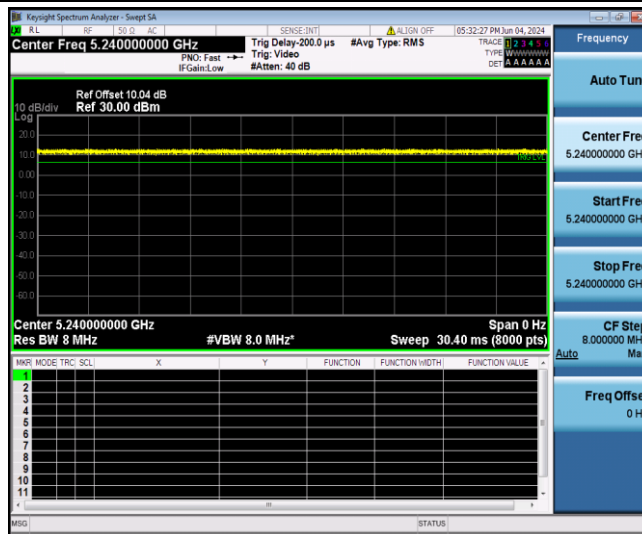
11A_Ant1_5180



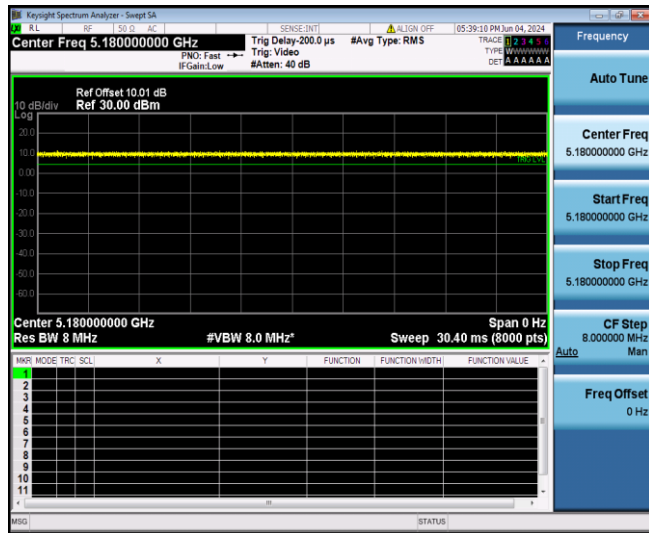
11A_Ant1_5200



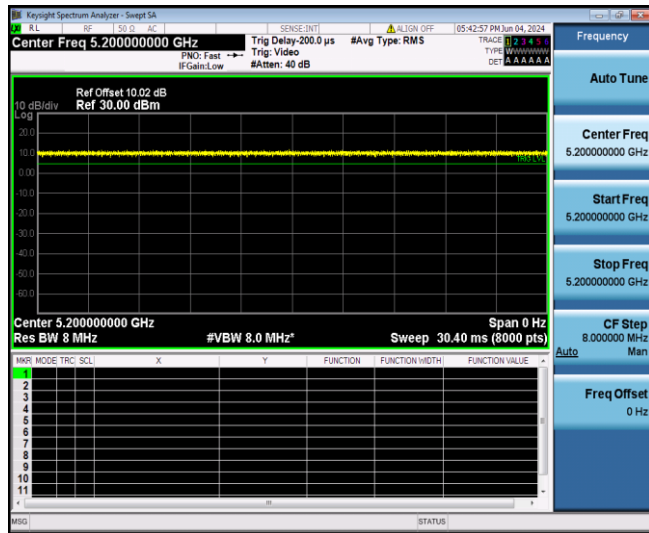
11A_Ant1_5240



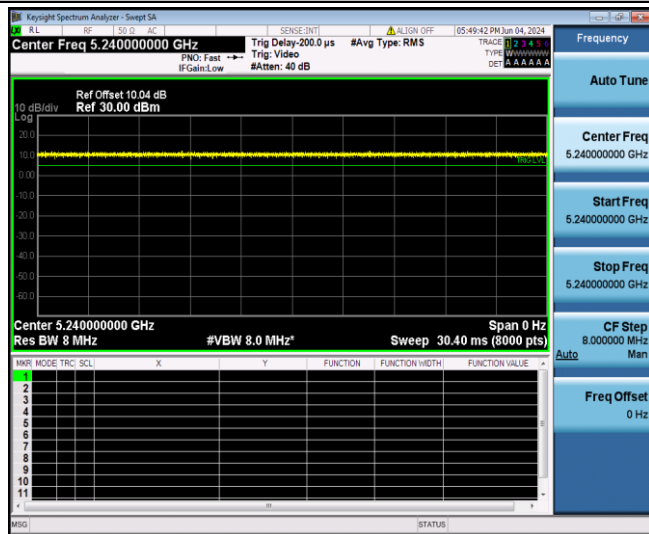
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



Appendix B.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	16.01	100.00	0.00	16.01	≤23.98	PASS
		5200	16.49	100.00	0.00	16.49	≤23.98	PASS
		5240	16.73	100.00	0.00	16.73	≤23.98	PASS
11N20SISO	Ant1	5180	16.79	100.00	0.00	16.79	≤23.98	PASS
		5200	16.27	100.00	0.00	16.27	≤23.98	PASS
		5240	16.60	100.00	0.00	16.60	≤23.98	PASS

Note:

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

Appendix B.5: Maximum power spectral density

Test Result

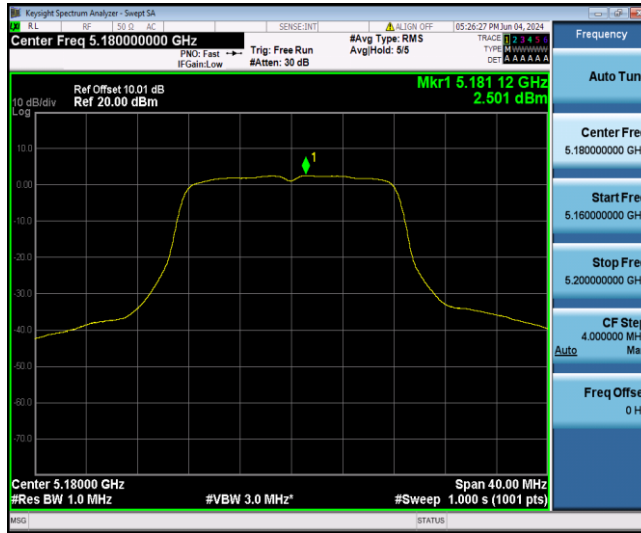
TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.50	≤11.00	PASS
		5200	3.03	≤11.00	PASS
		5240	3.36	≤11.00	PASS
11N20SISO	Ant1	5180	1.06	≤11.00	PASS
		5200	1.54	≤11.00	PASS
		5240	2.01	≤11.00	PASS

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

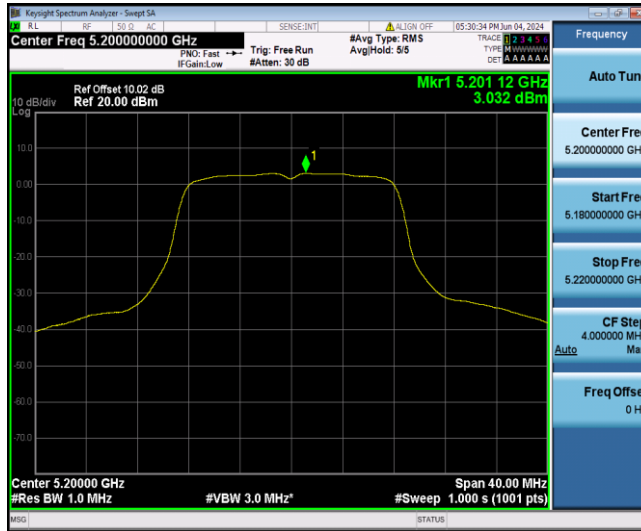
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

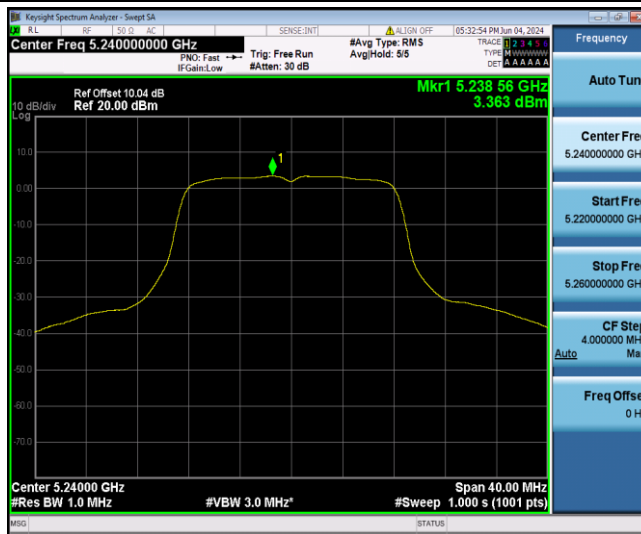
11A_Ant1_5180



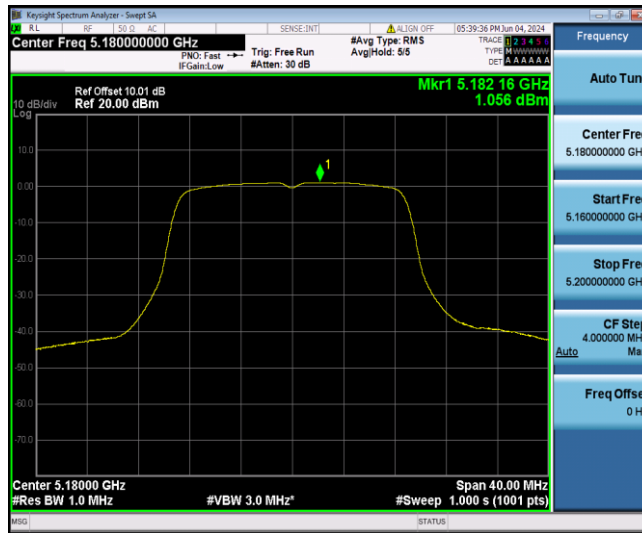
11A_Ant1_5200



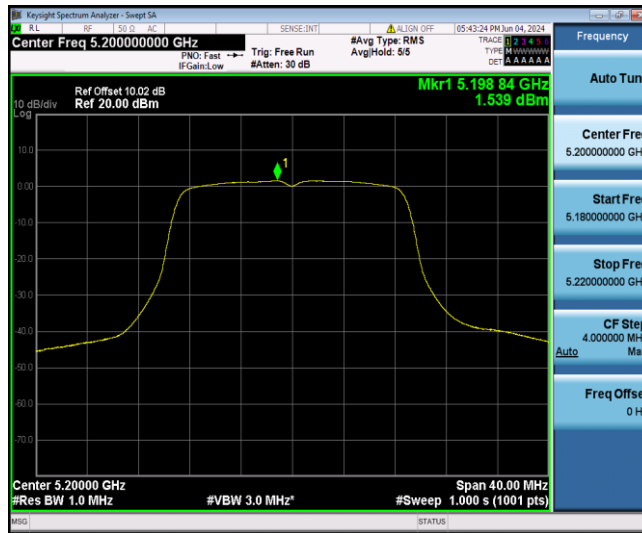
11A_Ant1_5240



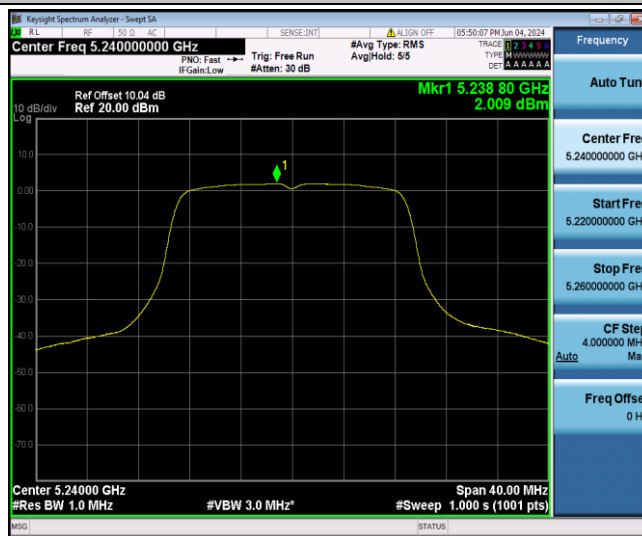
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240

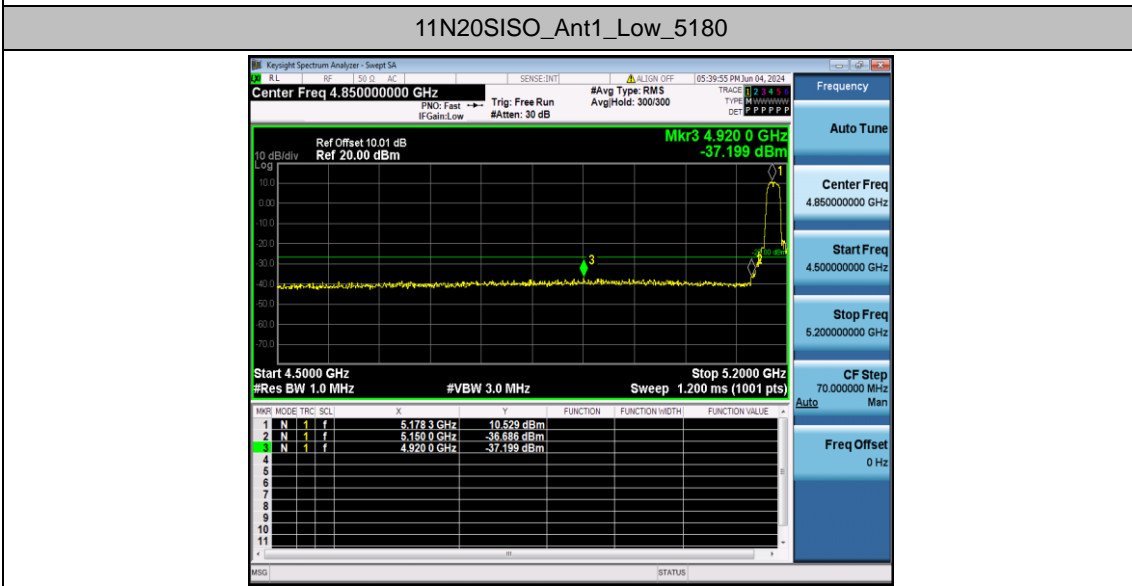
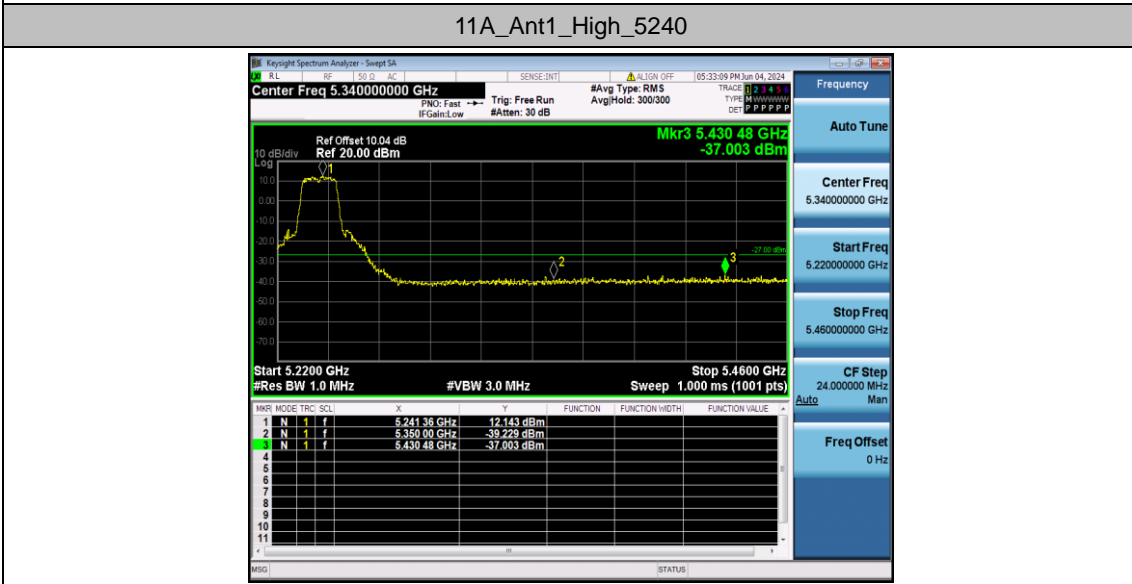
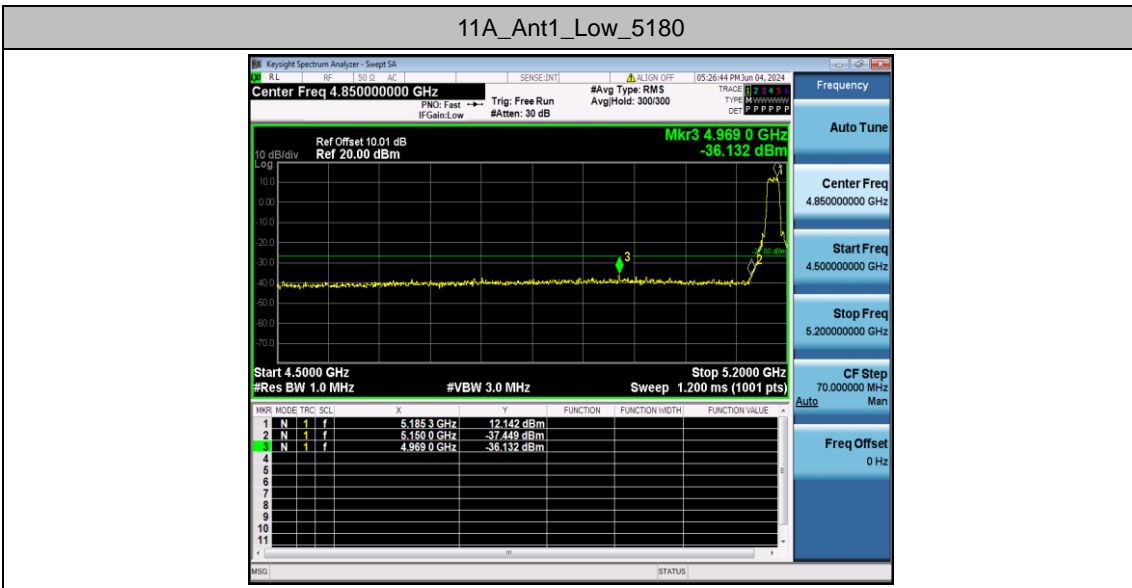


Appendix B.6: Band edge measurements

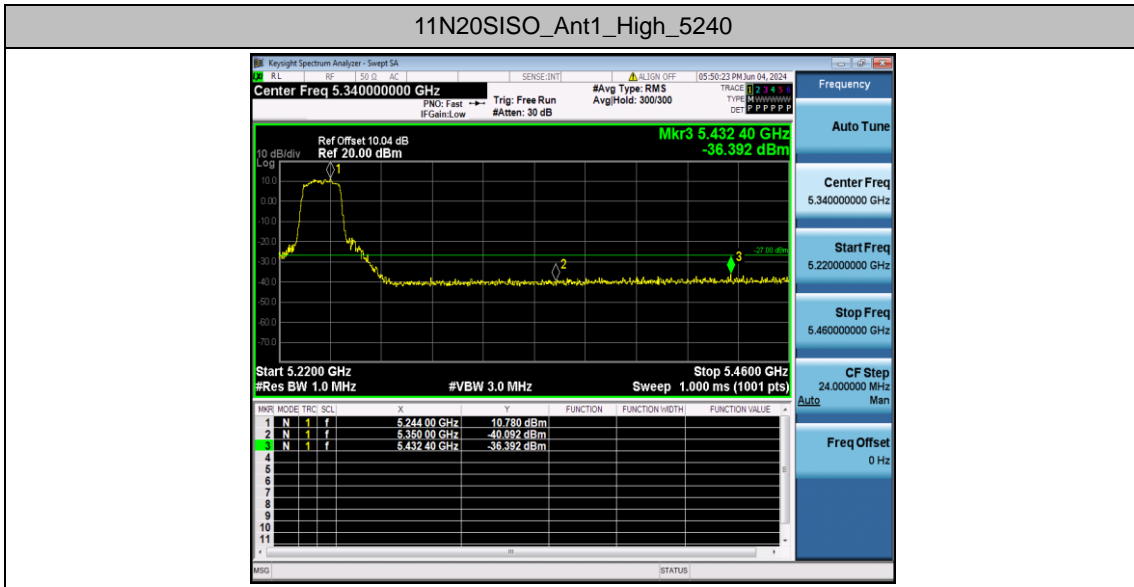
Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.13	≤-27	PASS
		High	5240	-37	≤-27	PASS
11N20SISO	Ant1	Low	5180	-37.2	≤-27	PASS
		High	5240	-36.39	≤-27	PASS

Test Graphs B1



11N20SISO_Ant1_High_5240



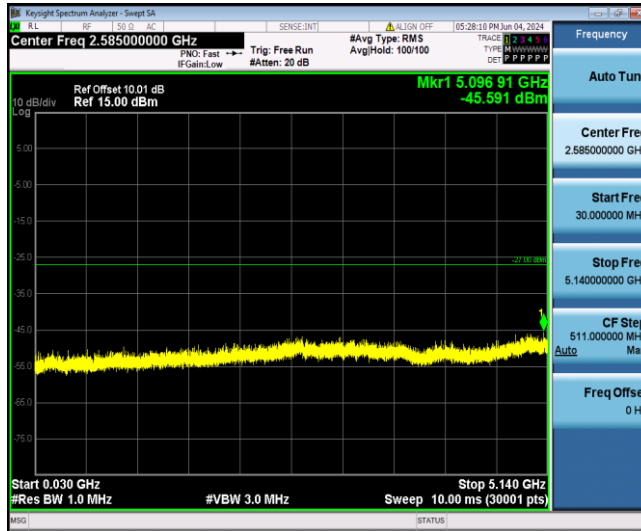
Appendix B.7: Conducted Spurious Emission

Test Result

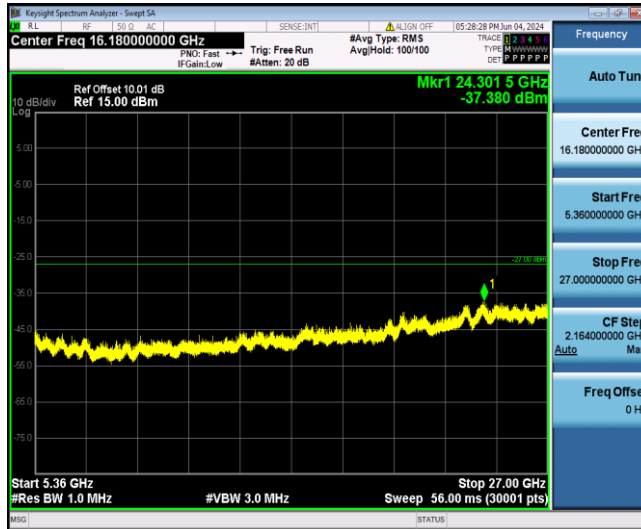
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5096.91	-45.59	≤-27	PASS
			5360~27000	24301.49	-37.38	≤-27	PASS
		5200	30~5140	5023.32	-46	≤-27	PASS
			5360~27000	23588.81	-36.92	≤-27	PASS
		5240	30~5140	5067.1	-46.11	≤-27	PASS
			5360~27000	26552.77	-37.04	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	1760.59	-37.84	≤-27	PASS
			5360~27000	24178.87	-37.29	≤-27	PASS
		5200	30~5140	833.8	-41.16	≤-27	PASS
			5360~27000	25194.5	-37.35	≤-27	PASS
		5240	30~5140	5016.51	-46.25	≤-27	PASS
			5360~27000	26585.23	-37.21	≤-27	PASS

Test Graphs

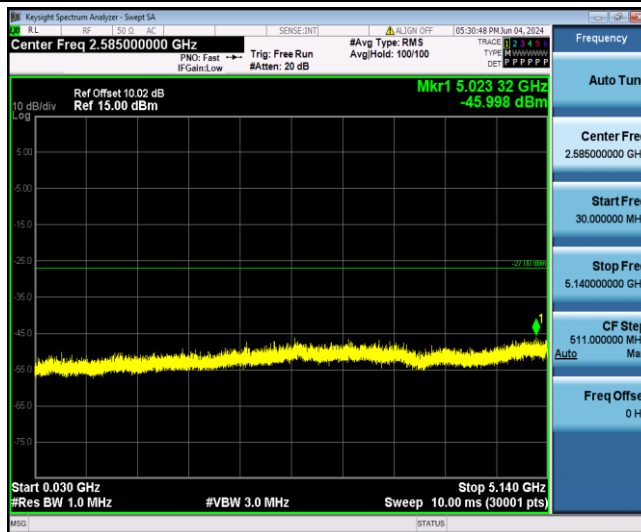
11A_Ant1_5180_30~5140



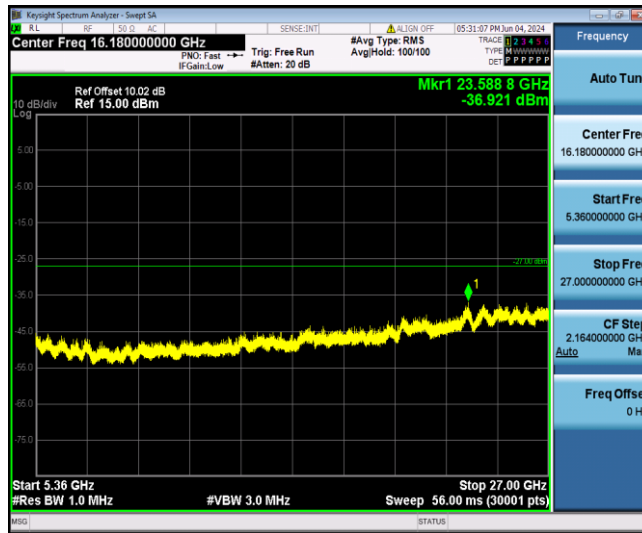
11A_Ant1_5180_5360~27000



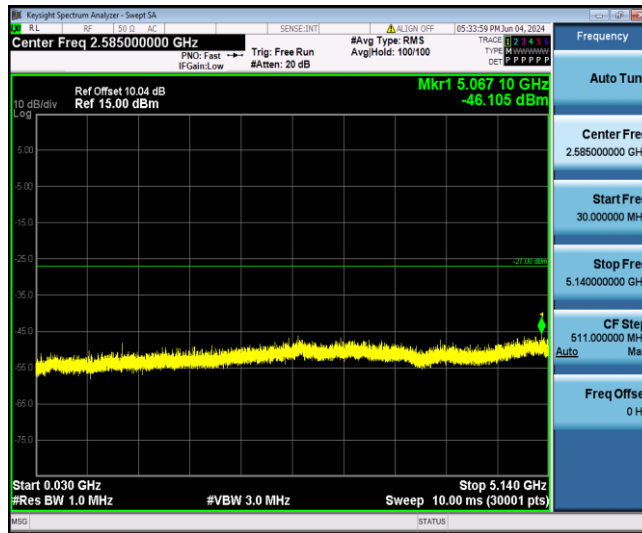
11A_Ant1_5200_30~5140



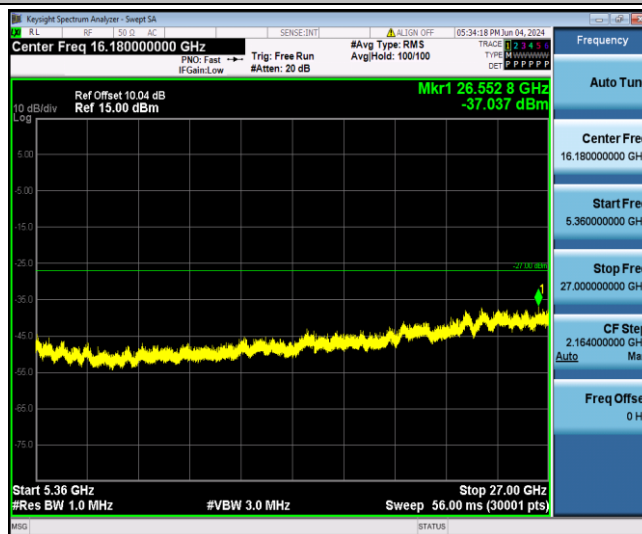
11A_Ant1_5200_5360~27000



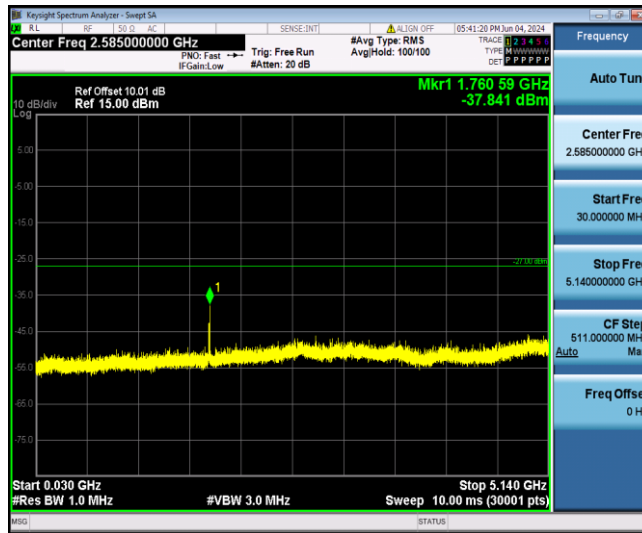
11A_Ant1_5240_30~5140



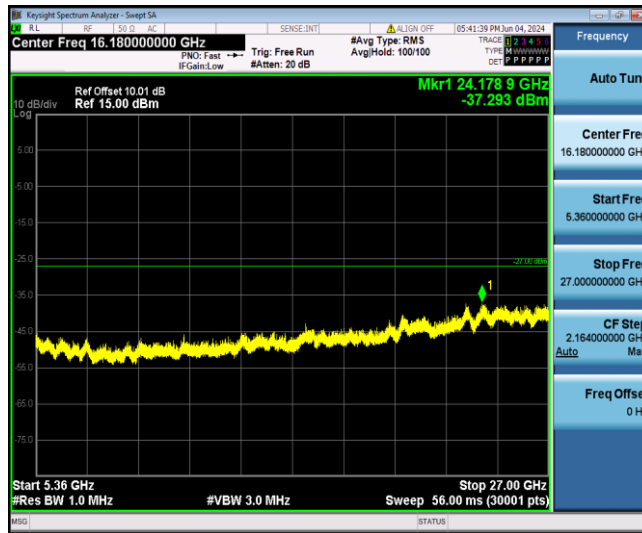
11A_Ant1_5240_5360~27000



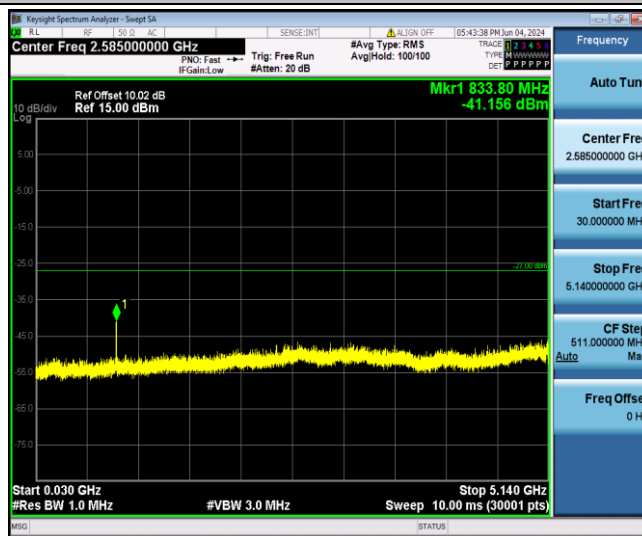
11N20SISO_Ant1_5180_30~5140



11N20SISO_Ant1_5180_5360~27000



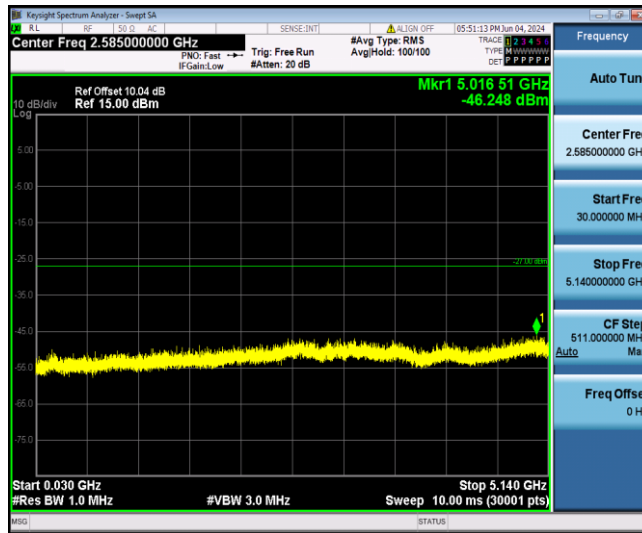
11N20SISO_Ant1_5200_30~5140



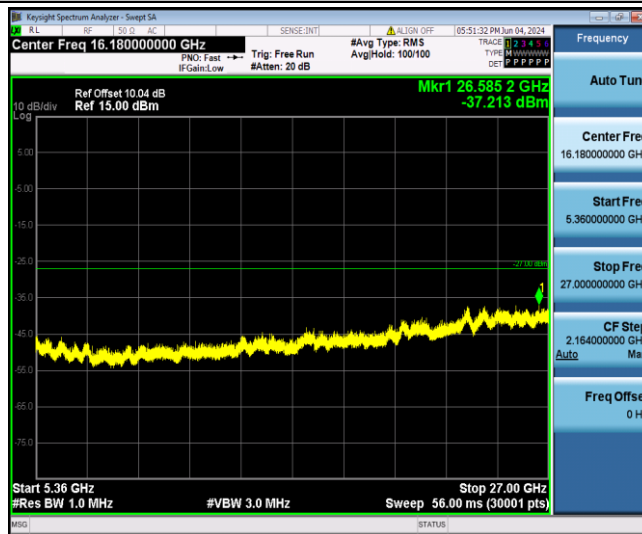
11N20SISO_Ant1_5200_5360~27000



11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~27000



Appendix B.8: Emissions in Restricted Bands

Test Result

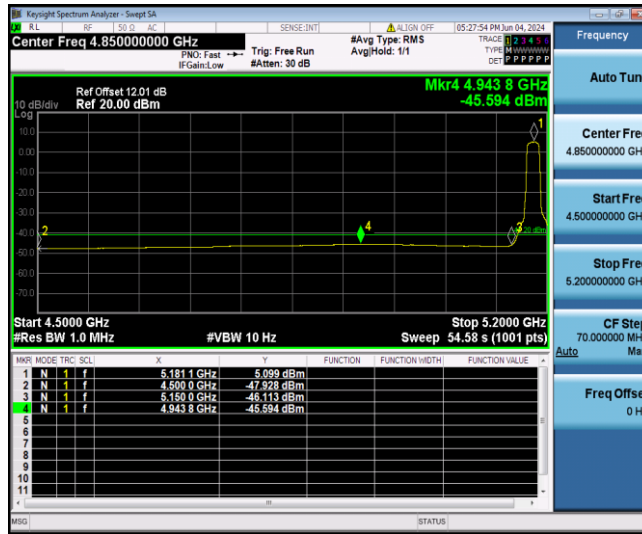
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-47.93	≤-41.20	47.27	≤54	PASS
				AV	4943.800	-45.59	≤-41.20	49.61	≤54	PASS
				AV	5150.000	-46.11	≤-41.20	49.09	≤54	PASS
				Peak	4500.000	-49.88	≤-21.20	45.32	≤74	PASS
				Peak	4992.100	-36.83	≤-21.20	58.37	≤74	PASS
				Peak	5150.000	-42.74	≤-21.20	52.46	≤74	PASS
		High	5240	AV	5350.000	-46.63	≤-41.20	48.57	≤54	PASS
				AV	5452.320	-45.77	≤-41.20	49.43	≤54	PASS
				AV	5460.000	-45.83	≤-41.20	49.37	≤54	PASS
				Peak	5350.000	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	5424.480	-37.36	≤-21.20	57.84	≤74	PASS
				Peak	5460.000	-42.6	≤-21.20	52.60	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-47.91	≤-41.20	47.29	≤54	PASS
				AV	4944.500	-45.58	≤-41.20	49.62	≤54	PASS
				AV	5150.000	-46.53	≤-41.20	48.67	≤54	PASS
				Peak	4500.000	-43.72	≤-21.20	51.48	≤74	PASS
				Peak	4830.400	-36.9	≤-21.20	58.30	≤74	PASS
				Peak	5150.000	-41.74	≤-21.20	53.46	≤74	PASS
		High	5240	AV	5350.000	-46.64	≤-41.20	48.56	≤54	PASS
				AV	5453.760	-45.77	≤-41.20	49.43	≤54	PASS
				AV	5460.000	-45.82	≤-41.20	49.38	≤54	PASS
				Peak	5350.000	-44.71	≤-21.20	50.49	≤74	PASS
				Peak	5404.080	-38.15	≤-21.20	57.05	≤74	PASS
				Peak	5460.000	-44.17	≤-21.20	51.03	≤74	PASS

Note:

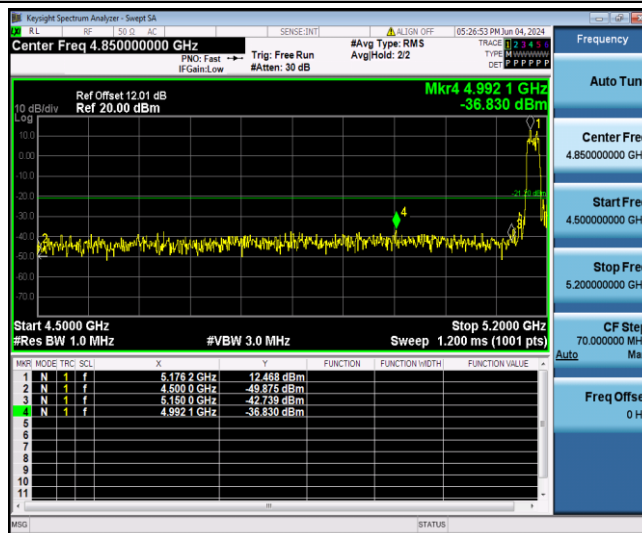
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm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

Test Graphs

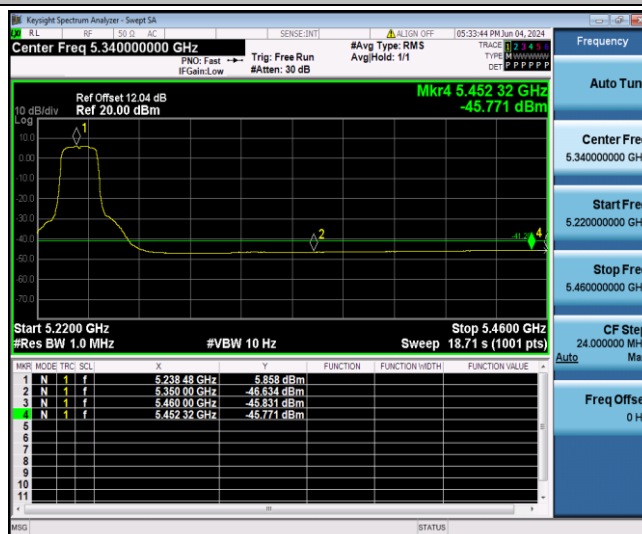
11A_Ant1_Low_5180_AV



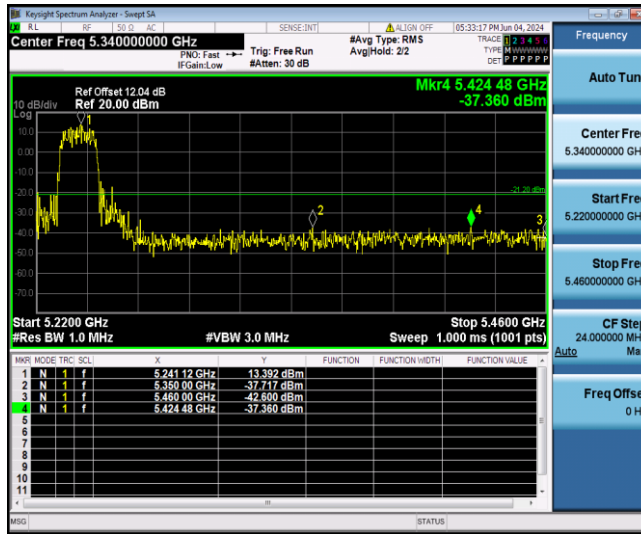
11A_Ant1_Low_5180_Peak



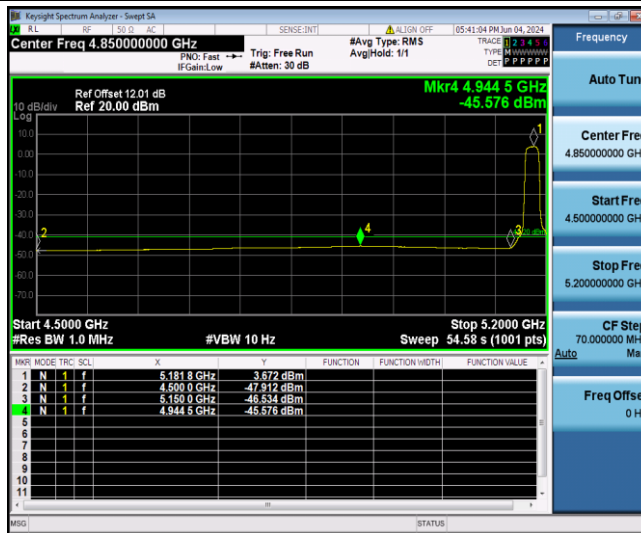
11A_Ant1_High_5240_AV



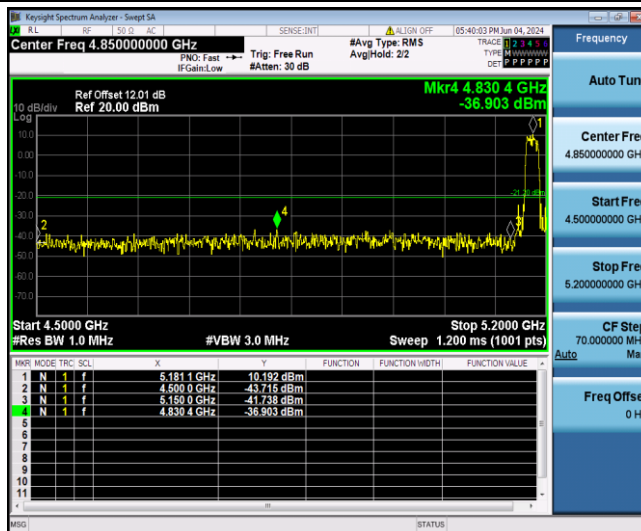
11A_Ant1_High_5240_Peak



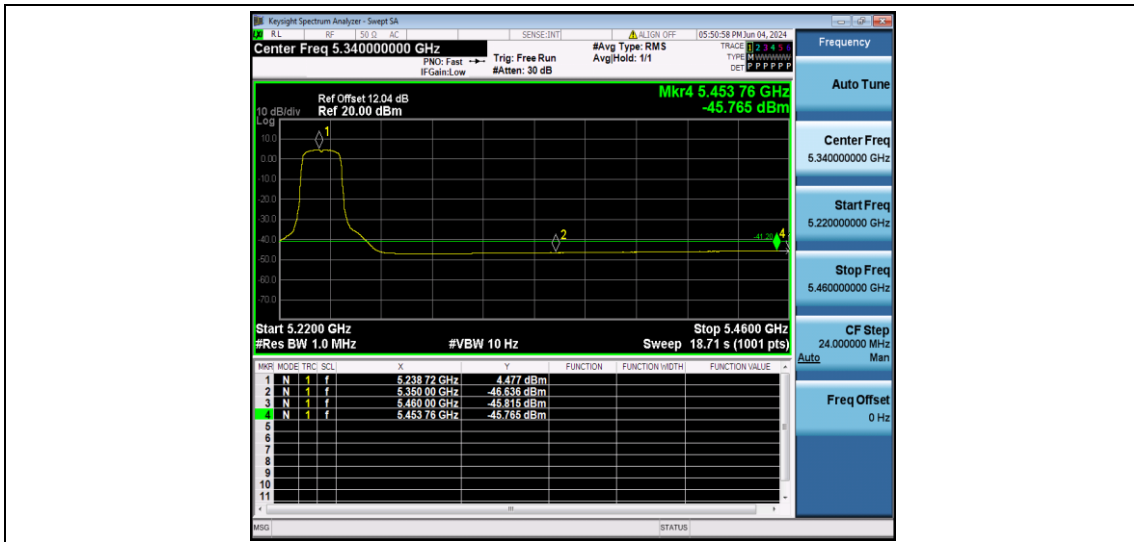
11N20SISO_Ant1_Low_5180_AV



11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV



11N20SISO_Ant1_High_5240_Peak

