

Case No. : <u>GTS20250807004-4-03A</u>
Ambient Condition: <u>22</u> °C, <u>50</u> %RH
According Standard: <u>■Part15E</u>
Test Date: <u>2025.8.13-2025.8.28</u> Test Engineer: <u>Evan ouyang</u>

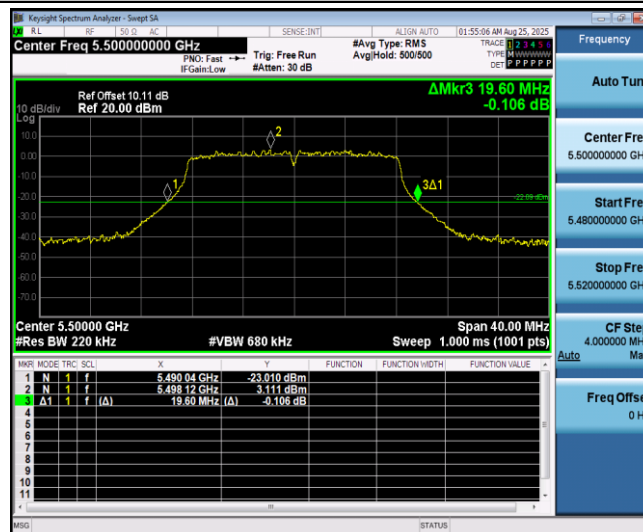
Appendix E.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	19.600	5490.040	5509.640	---	---
		5580	19.760	5570.040	5589.800	---	---
		5700	33.040	5682.680	5715.720	---	---
11N20SISO	Ant1	5500	20.640	5489.680	5510.320	---	---
		5580	20.720	5569.640	5590.360	---	---
		5700	29.000	5685.880	5714.880	---	---

Test Graphs

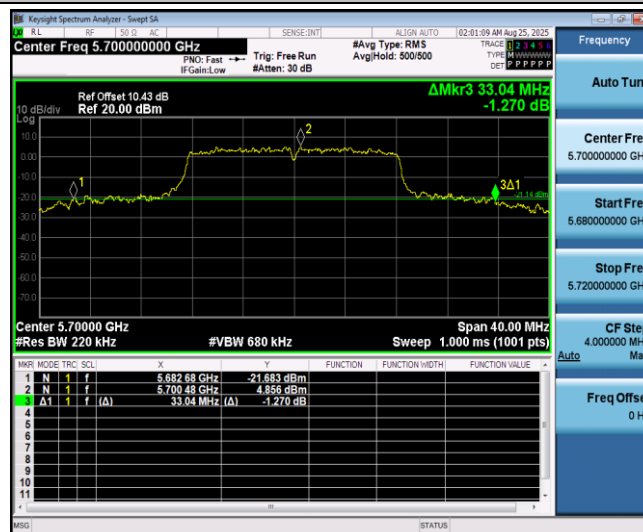
11A_Ant1_5500



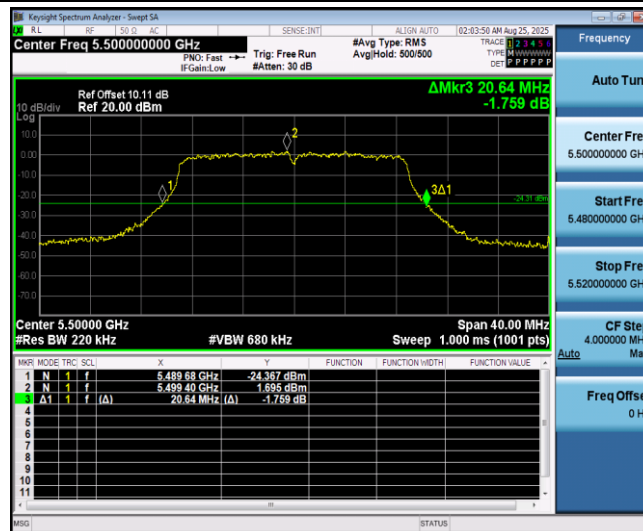
11A_Ant1_5580



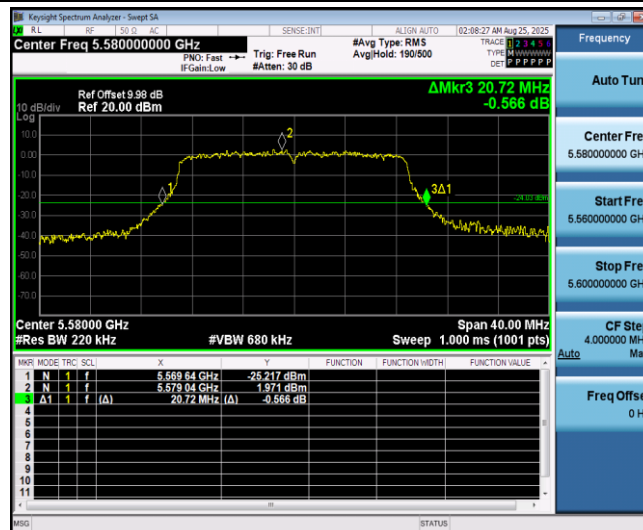
11A_Ant1_5700



11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



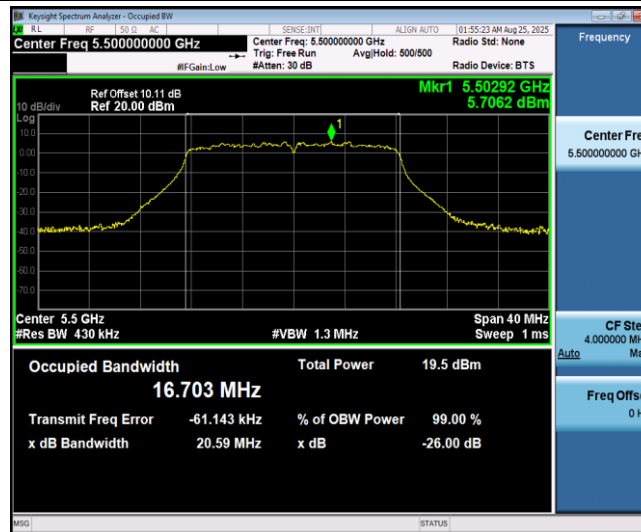
Appendix E.2: Occupied channel bandwidth

Test Result

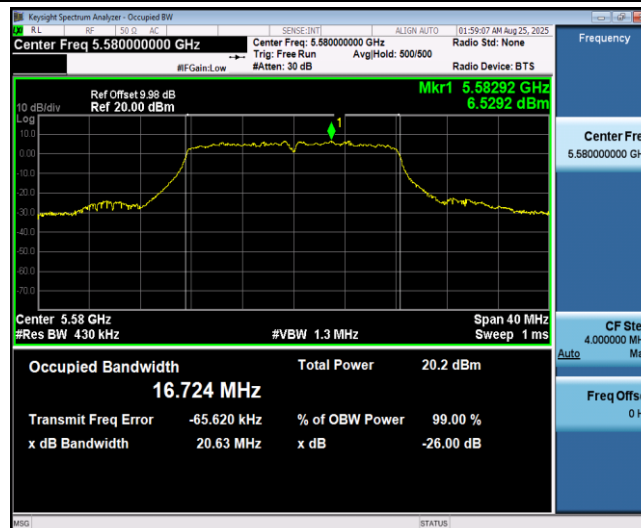
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	16.703	5491.5874	5508.2904	---	---
		5580	16.724	5571.5724	5588.2964	---	---
		5700	17.143	5691.3047	5708.4477	---	---
11N20SISO	Ant1	5500	17.789	5491.0258	5508.8148	---	---
		5580	17.769	5571.0389	5588.8079	---	---
		5700	17.996	5690.9349	5708.9309	---	---

Test Graphs

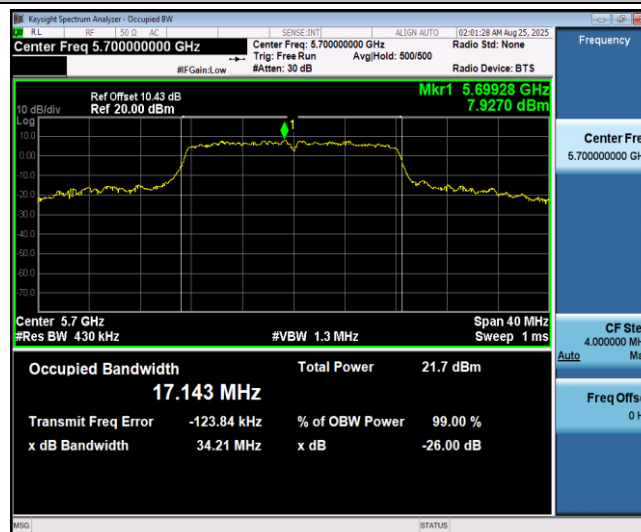
11A_Ant1_5500



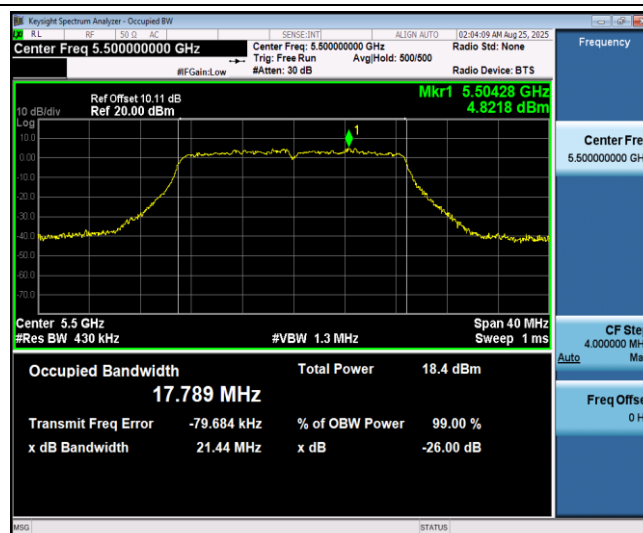
11A_Ant1_5580



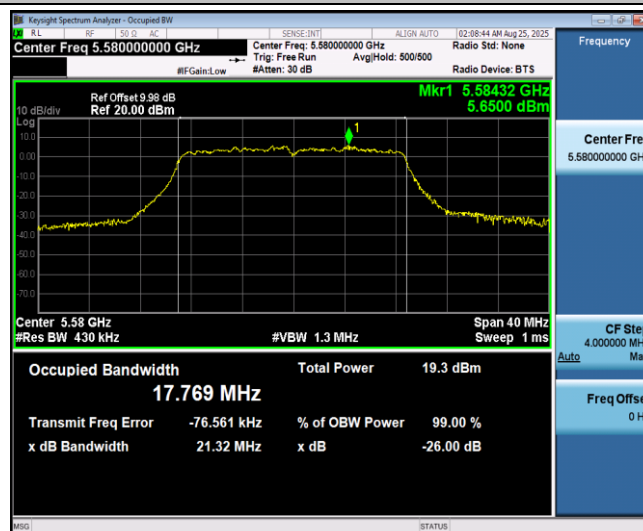
11A_Ant1_5700



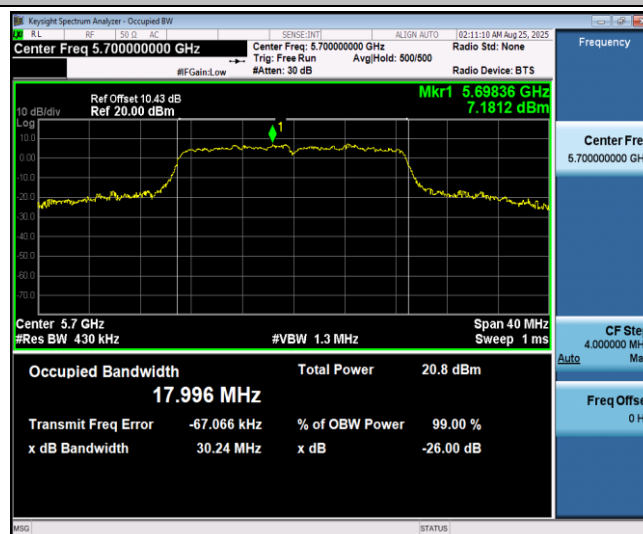
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



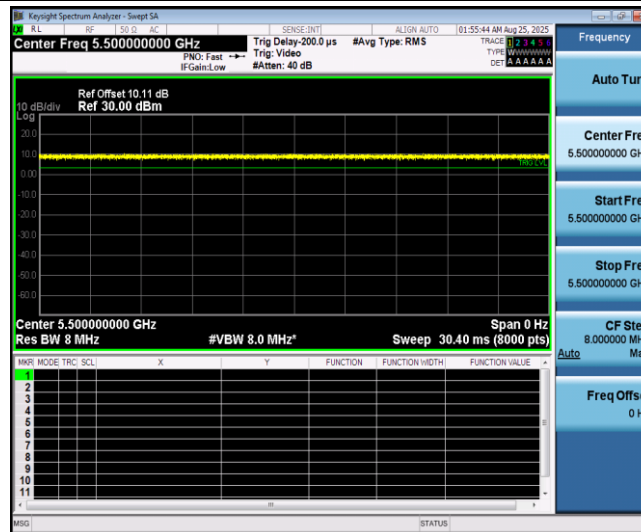
AppendixE.3: Duty Cycle

Test Result

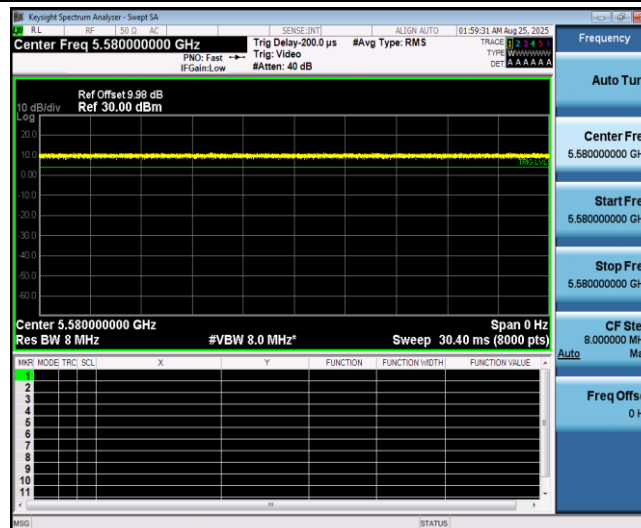
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5580	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5580	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03

Test Graphs

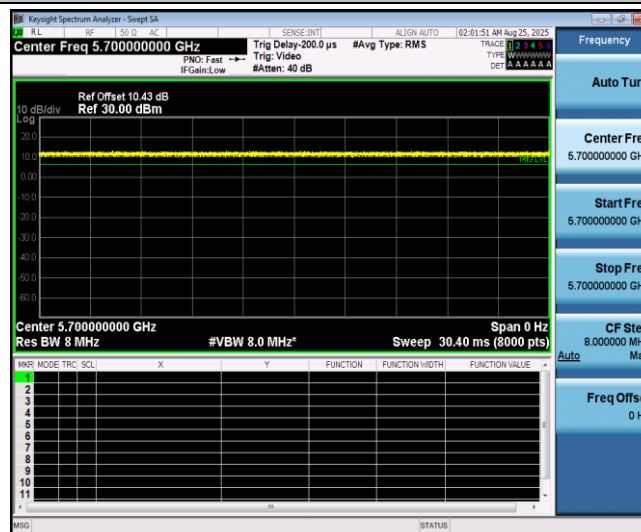
11A_Ant1_5500



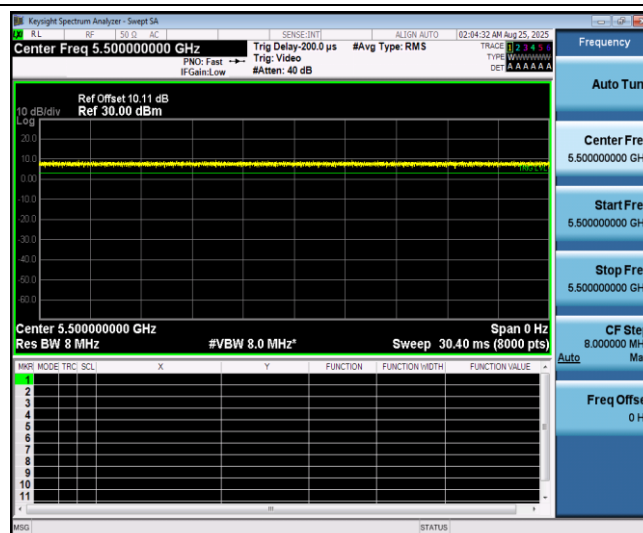
11A_Ant1_5580



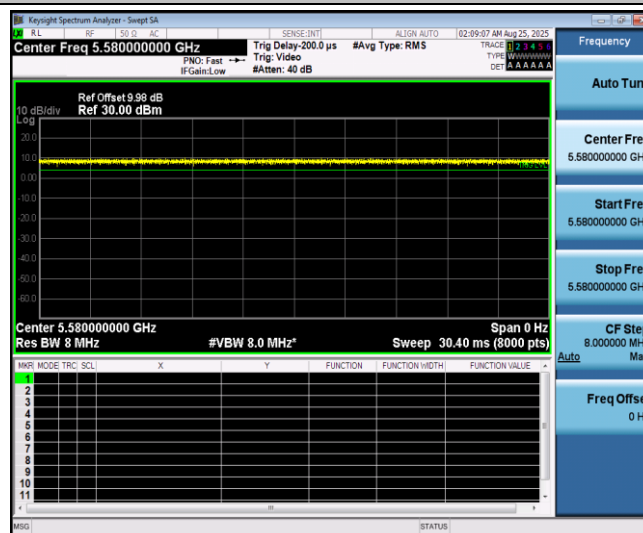
11A_Ant1_5700



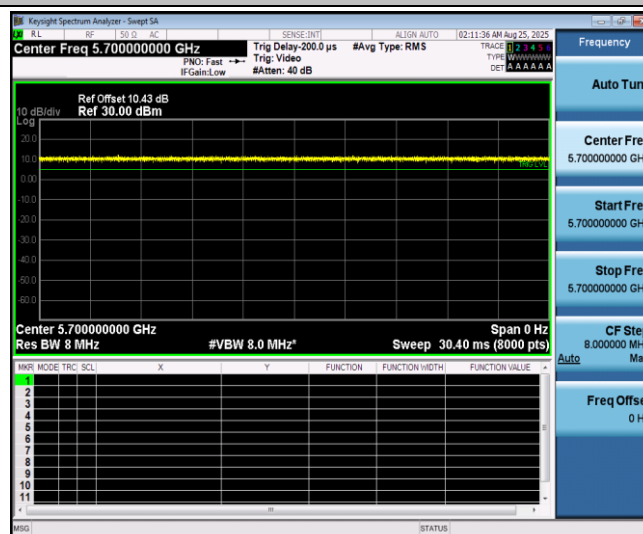
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



Appendix E.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	5500	17.33	100.00	0.00	17.33	≤23.92	PASS
		5580	17.13	100.00	0.00	17.13	≤23.96	PASS
		5700	17.63	100.00	0.00	17.63	≤23.98	PASS
11N20SISO	Ant1	5500	17.29	100.00	0.00	17.29	≤23.98	PASS
		5580	17.07	100.00	0.00	17.07	≤23.98	PASS
		5700	17.53	100.00	0.00	17.53	≤23.98	PASS

Appendix E.5: Maximum power spectral density

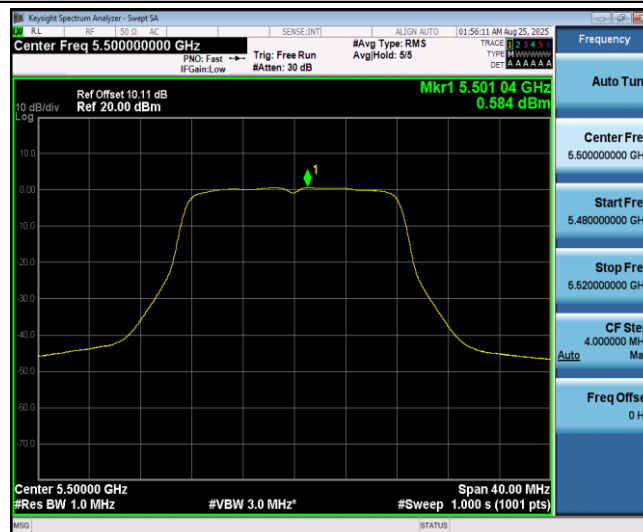
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5500	0.58	≤11.00	PASS
		5580	1.48	≤11.00	PASS
		5700	3.21	≤11.00	PASS
11N20SISO	Ant1	5500	-0.71	≤11.00	PASS
		5580	0.15	≤11.00	PASS
		5700	1.87	≤11.00	PASS

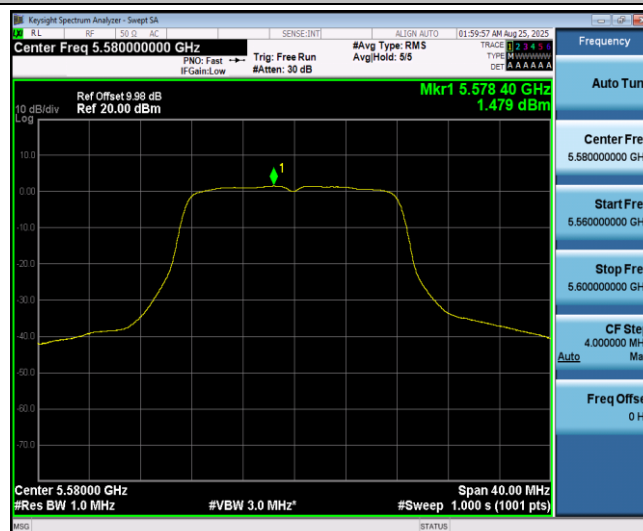
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factorand RBW Factoriscompensatedinthe graph.

Test Graphs

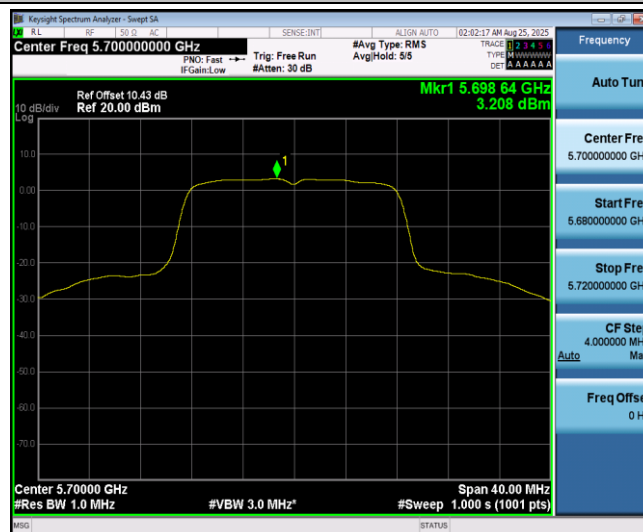
11A_Ant1_5500



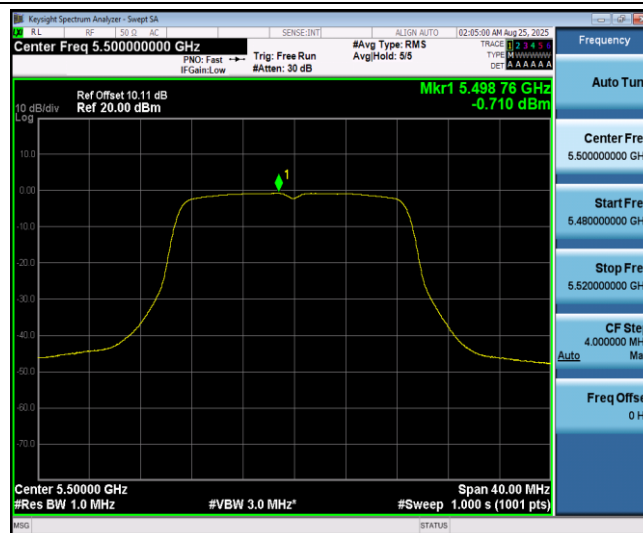
11A_Ant1_5580



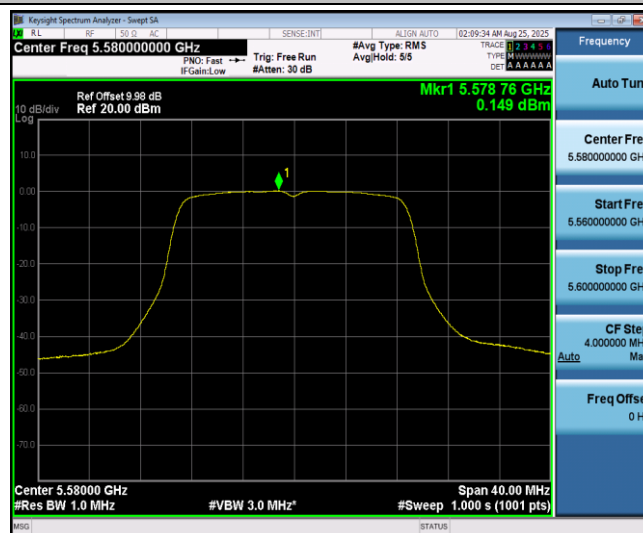
11A_Ant1_5700



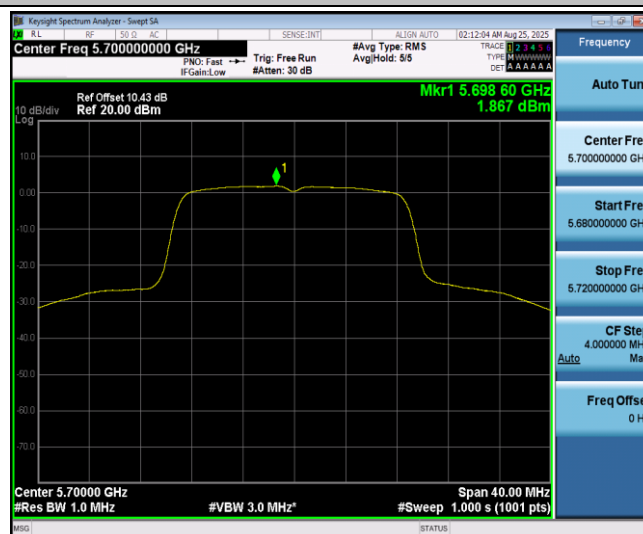
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



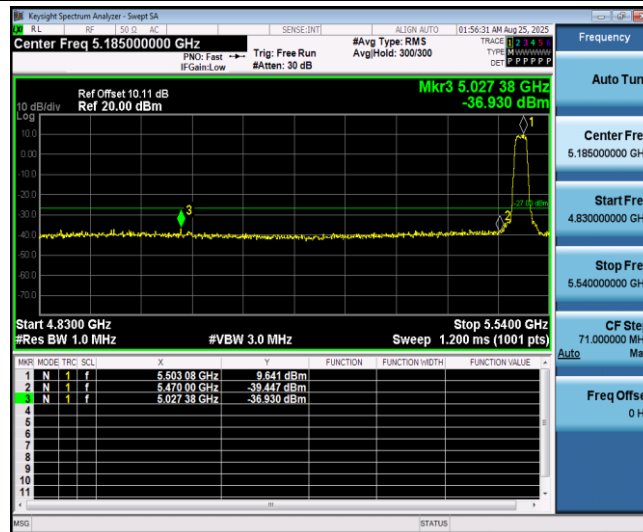
Appendix E.6:Band edge measurements

Test Result B3

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5500	-36.93	≤ -27	PASS
		High	5700	-35.86	≤ -27	PASS
11N20SISO	Ant1	Low	5500	-36.92	≤ -27	PASS
		High	5700	-36.53	≤ -27	PASS

Test GraphsB3

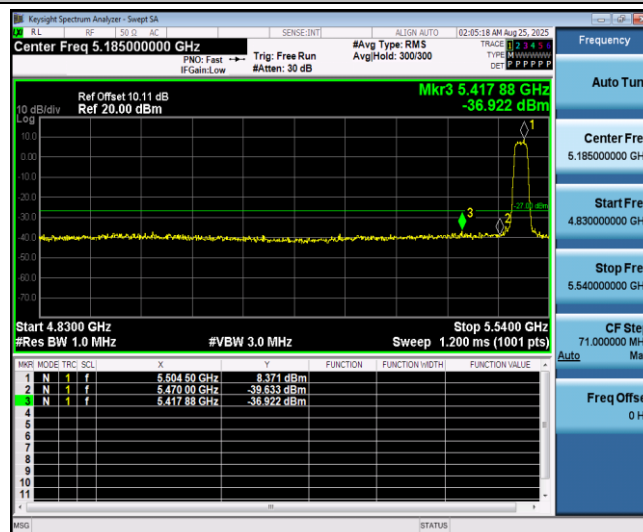
11A_Ant1_Low_5500

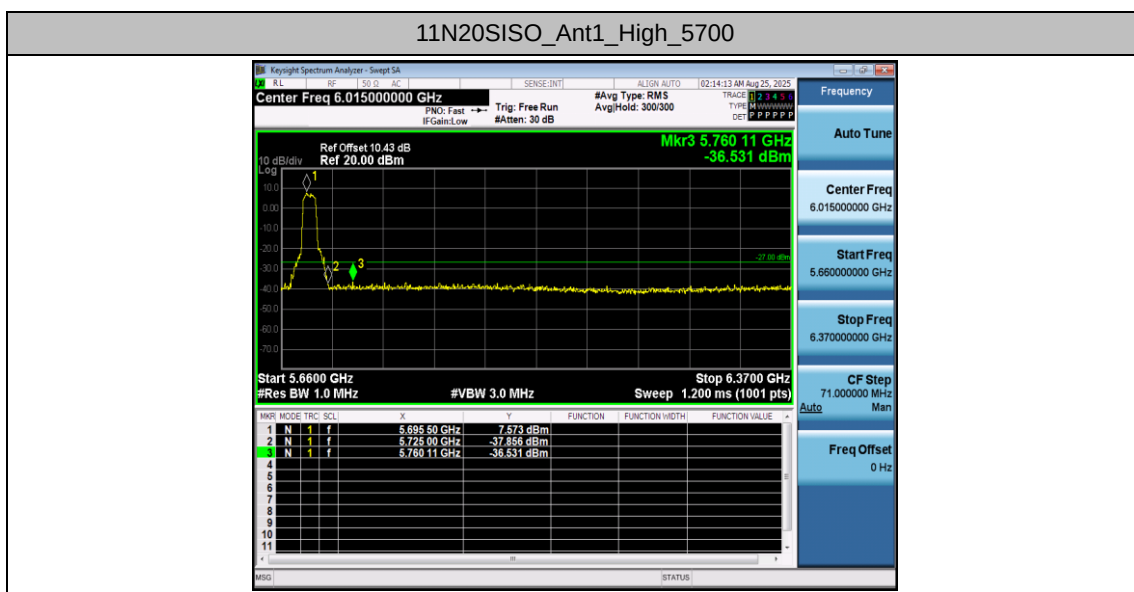


11A_Ant1_High_5700



11N20SISO_Ant1_Low_5500





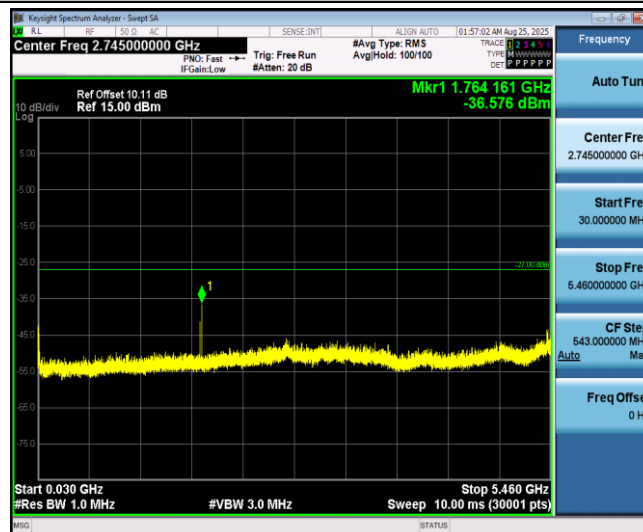
Appendix E.7:Conducted Spurious Emission

Test Result

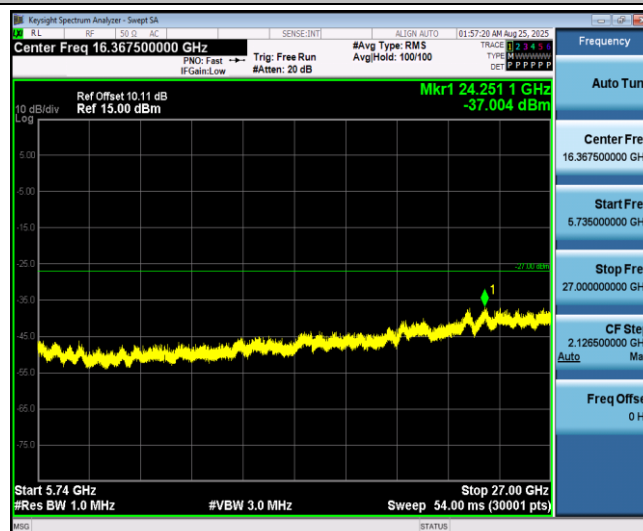
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	30~5460	1764.16	-36.58	≤-27	PASS
			5735~27000	24251.14	-37	≤-27	PASS
		5580	30~5460	43.39	-42.77	≤-27	PASS
			5735~27000	25139.31	-37.08	≤-27	PASS
		5700	30~5460	33.26	-40.66	≤-27	PASS
			5735~27000	5735	-34.14	≤-27	PASS
11N20SISO	Ant1	5500	30~5460	42.49	-42.74	≤-27	PASS
			5735~27000	24187.35	-36.68	≤-27	PASS
		5580	30~5460	33.26	-41.71	≤-27	PASS
			5735~27000	26031.73	-36.67	≤-27	PASS
		5700	30~5460	42.49	-43.07	≤-27	PASS
			5735~27000	23567.12	-36.51	≤-27	PASS

Test Graphs

11A_Ant1_5500_30-5460



11A_Ant1_5500_5735-27000



11A_Ant1_5580_30-5460



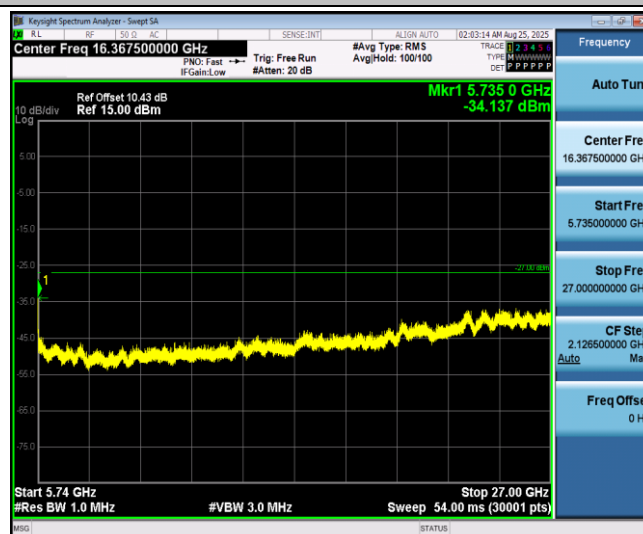
11A_Ant1_5580_5735-27000



11A_Ant1_5700_30~5460



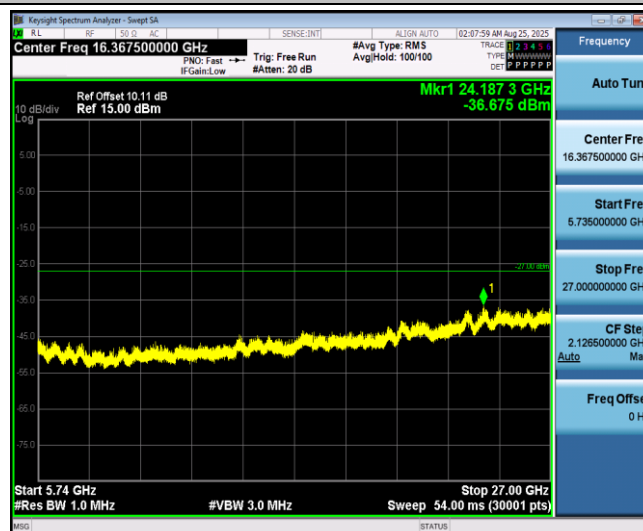
11A_Ant1_5700_5735~27000



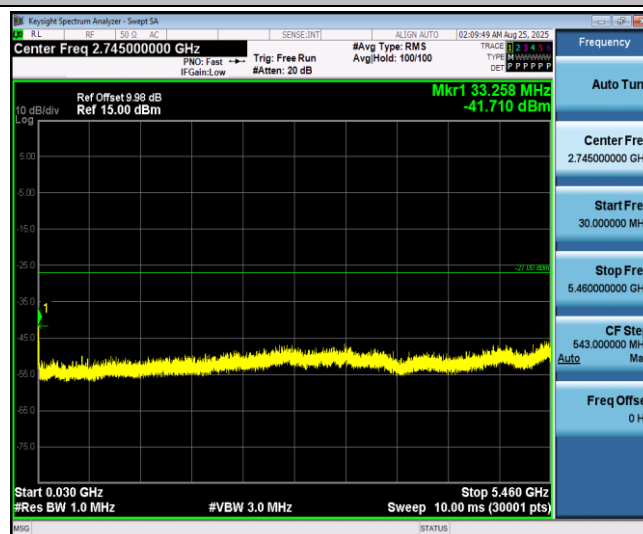
11N20SISO_Ant1_5500_30~5460



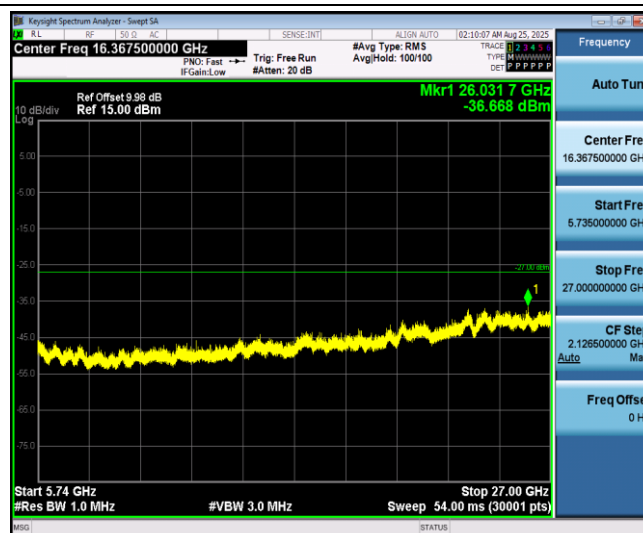
11N20SISO_Ant1_5500_5735~27000



11N20SISO_Ant1_5580_30~5460



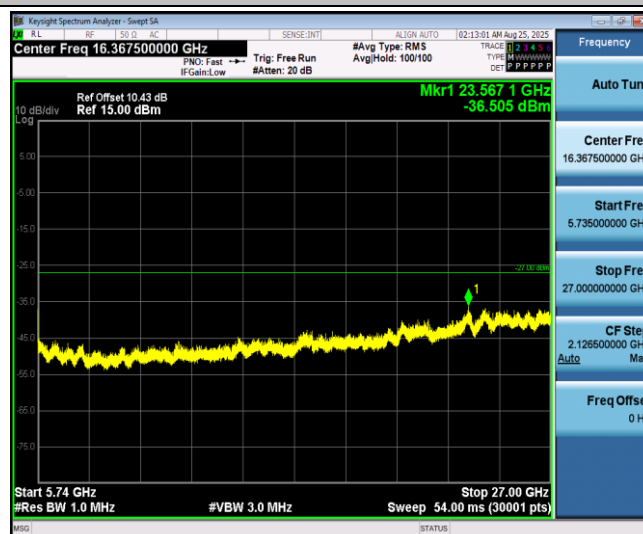
11N20SISO_Ant1_5580_5735~27000



11N20SISO_Ant1_5700_30~5460



11N20SISO_Ant1_5700_5735~27000



Appendix E.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	5500	AV	5350.000	-46.39	≤-41.20	48.81	≤54	PASS
				AV	5423.560	-45.34	≤-41.20	49.86	≤54	PASS
				AV	5460.000	-45.47	≤-41.20	49.73	≤54	PASS
				Peak	5350.000	-41.89	≤-21.20	53.31	≤74	PASS
				Peak	5438.470	-37.22	≤-21.20	57.98	≤74	PASS
				Peak	5460.000	-42.19	≤-21.20	53.01	≤74	PASS
11N20SISO	Ant1	Low	5500	AV	5350.000	-46.41	≤-41.20	48.79	≤54	PASS
				AV	5458.350	-45.47	≤-41.20	49.73	≤54	PASS
				AV	5460.000	-45.5	≤-41.20	49.70	≤54	PASS
				Peak	5350.000	-41.58	≤-21.20	53.62	≤74	PASS
				Peak	5410.070	-36.89	≤-21.20	58.31	≤74	PASS
				Peak	5460.000	-40.05	≤-21.20	55.15	≤74	PASS

Note:

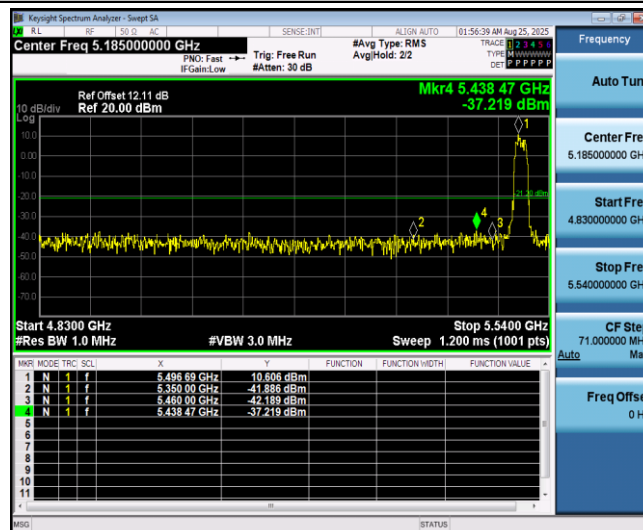
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm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

Test Graphs

11A_Ant1_Low_5500_AV



11A_Ant1_Low_5500_Peak



11N20SISO_Ant1_Low_5500_AV

