

Case No. : <u>GTS20231020001-1-80</u>
Ambient Condition: <u>22 °C, 51 %RH</u>
According Standard: <u>■Part15E</u>
Test Date: <u>2024.2.1</u> Test Engineer: <u>Evan ouyang</u>

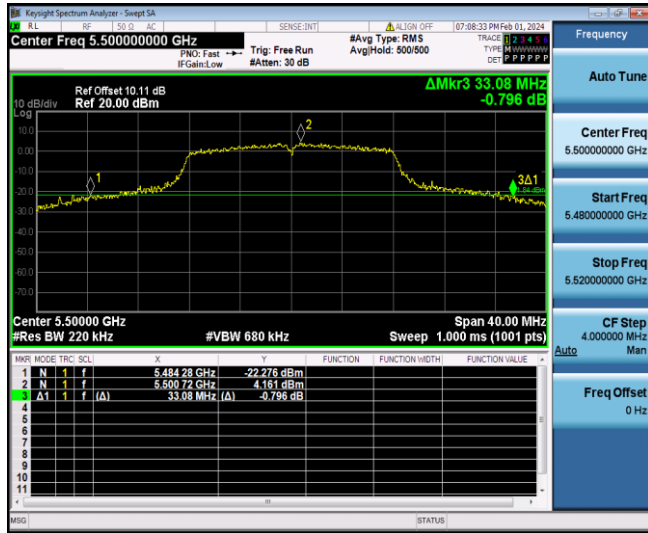
Appendix D.1: Emission Bandwidth

Test Result

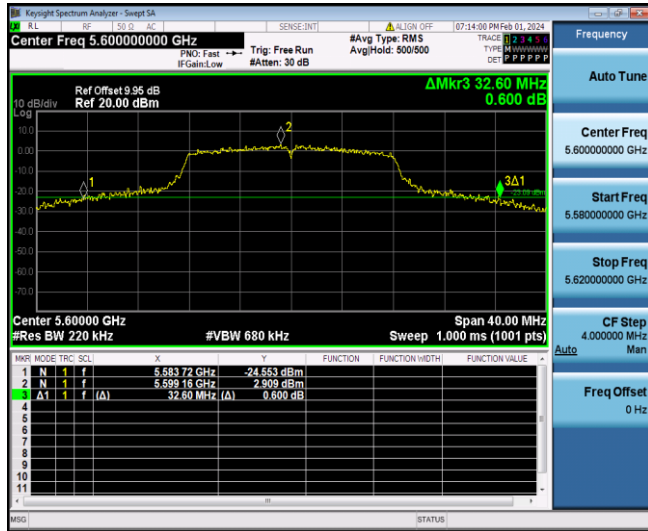
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	33.080	5484.280	5517.360	---	---
		5600	32.600	5583.720	5616.320	---	---
		5700	32.960	5682.360	5715.320	---	---
11N20SISO	Ant1	5500	34.360	5483.440	5517.800	---	---
		5600	34.440	5582.080	5616.520	---	---
		5700	35.080	5681.160	5716.240	---	---

Test Graphs

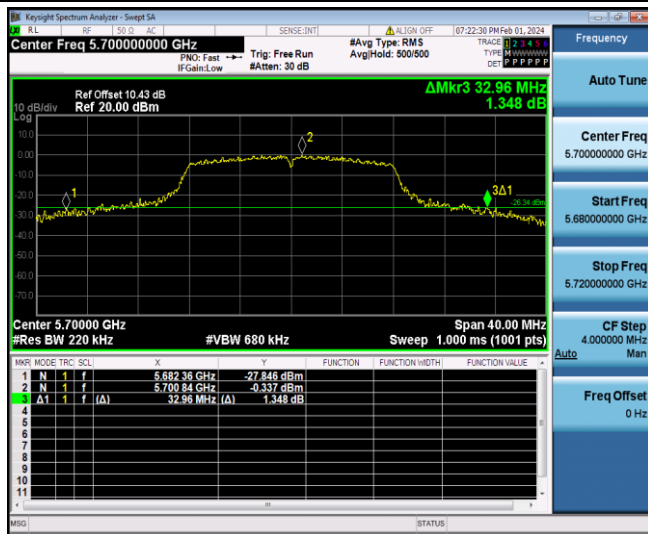
11A_Ant1_5500



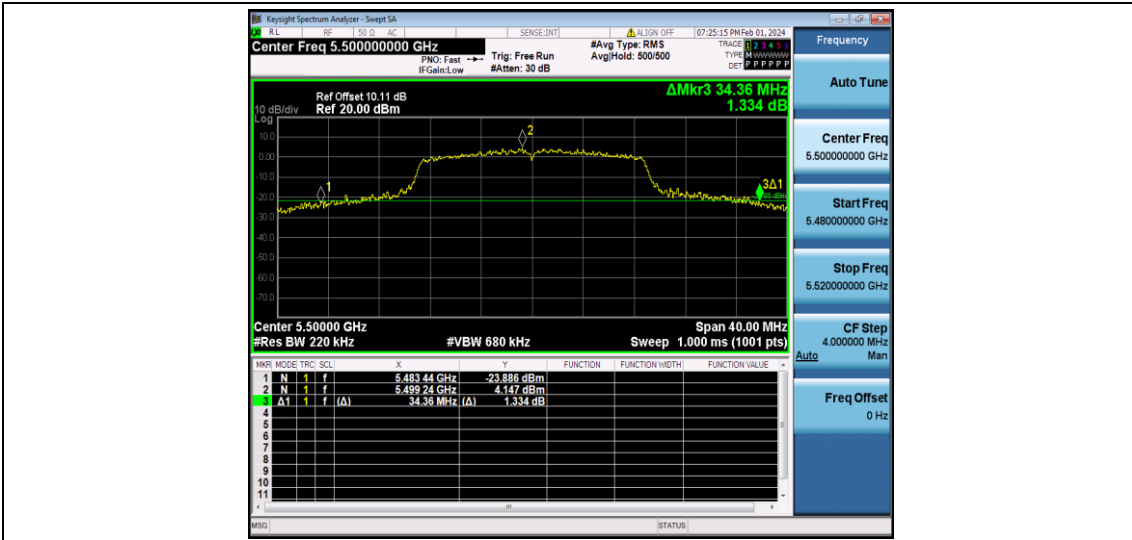
11A_Ant1_5600



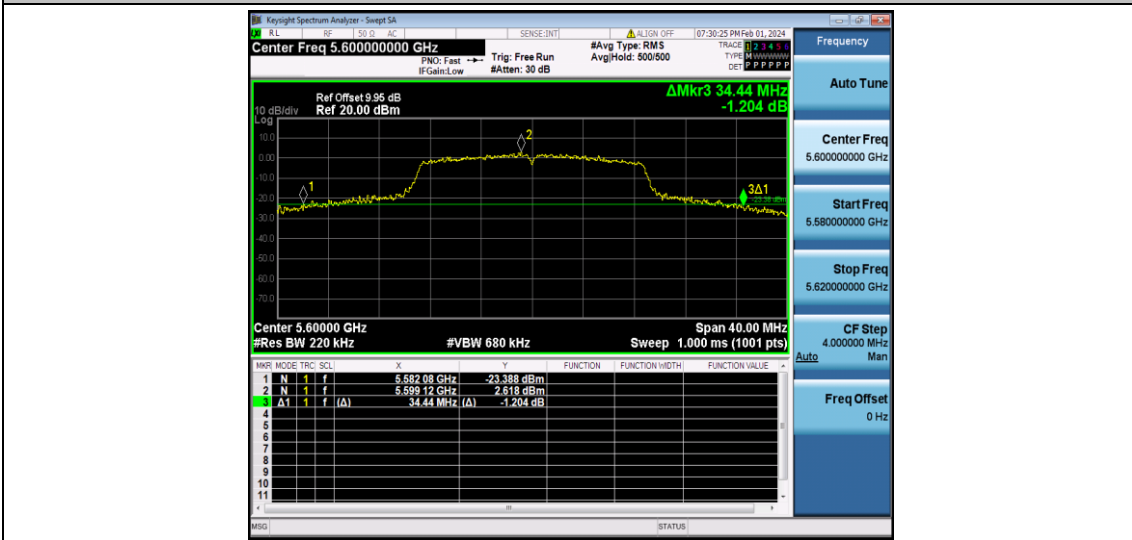
11A_Ant1_5700



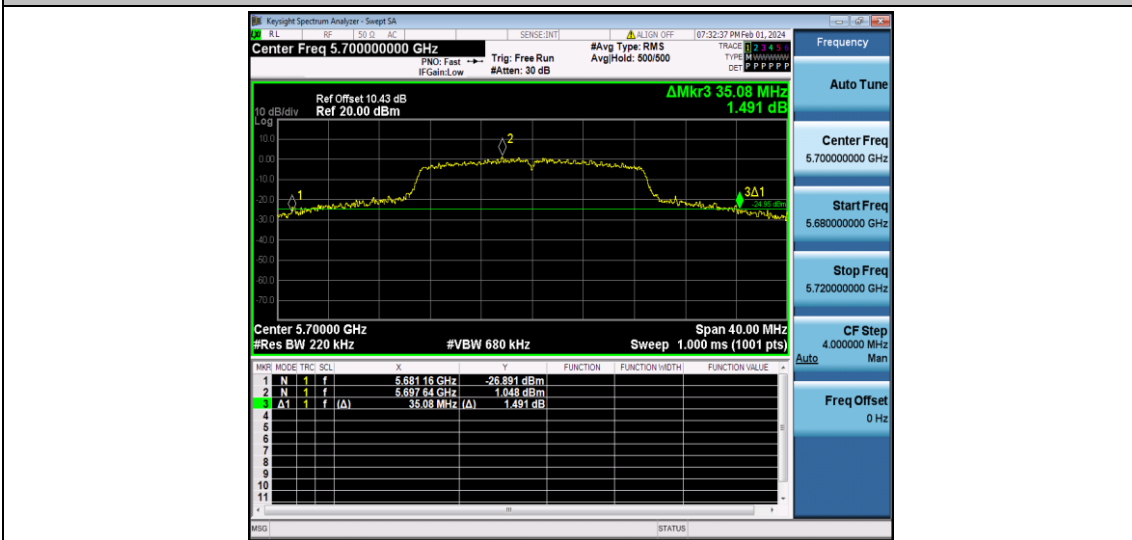
11N20SISO_Ant1_5500



11N20SISO_Ant1_5600



11N20SISO_Ant1_5700



Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	18.598	5491.1807	5509.7787	---	---
		5600	18.271	5590.6968	5608.9678	---	---
		5700	17.664	5691.0951	5708.7591	---	---
11N20SISO	Ant1	5500	18.961	5490.7489	5509.7099	---	---
		5600	19.022	5590.2958	5609.3178	---	---
		5700	19.748	5689.7860	5709.5340	---	---

Test Graphs

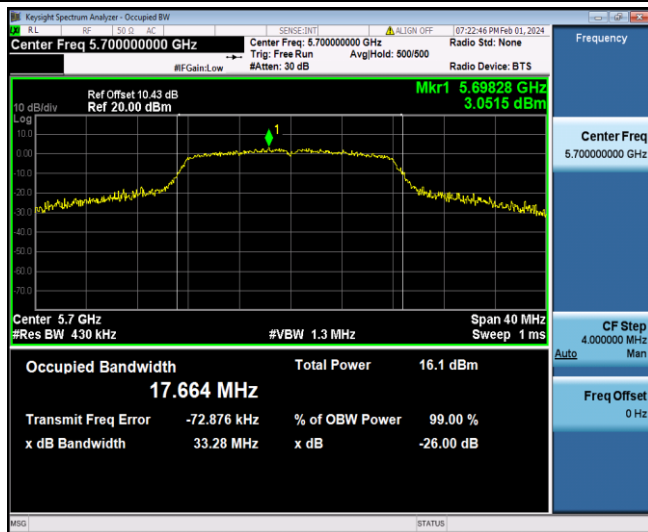
11A_Ant1_5500



11A_Ant1_5600



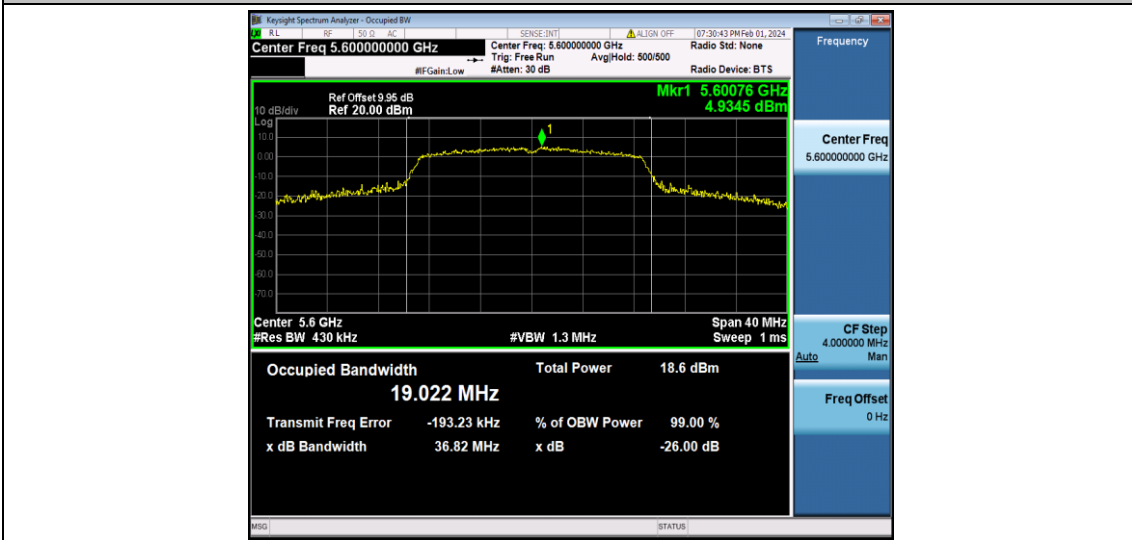
11A_Ant1_5700



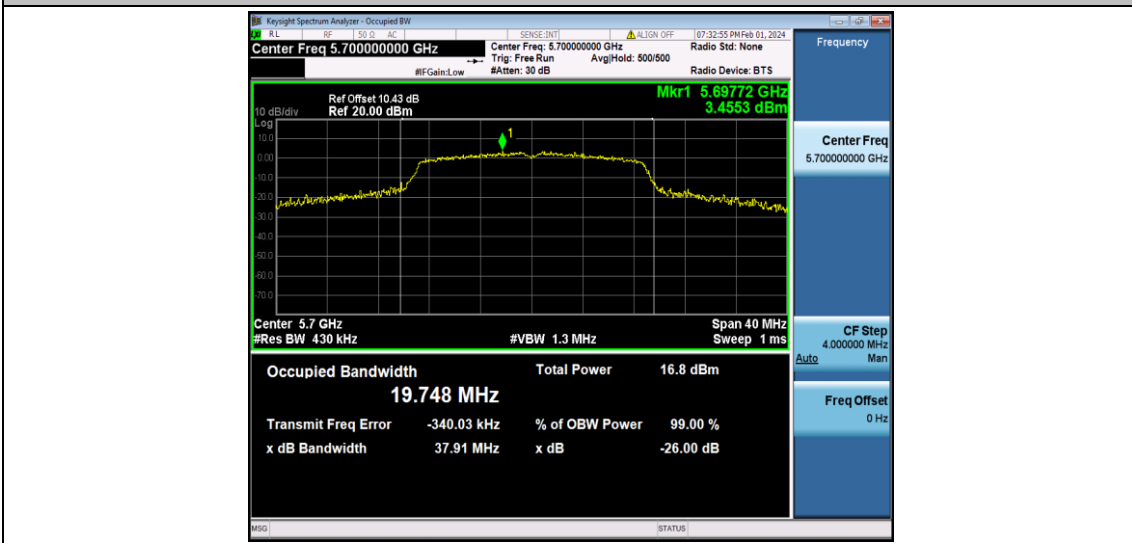
11N20SISO_Ant1_5500



11N20SISO_Ant1_5600



11N20SISO_Ant1_5700



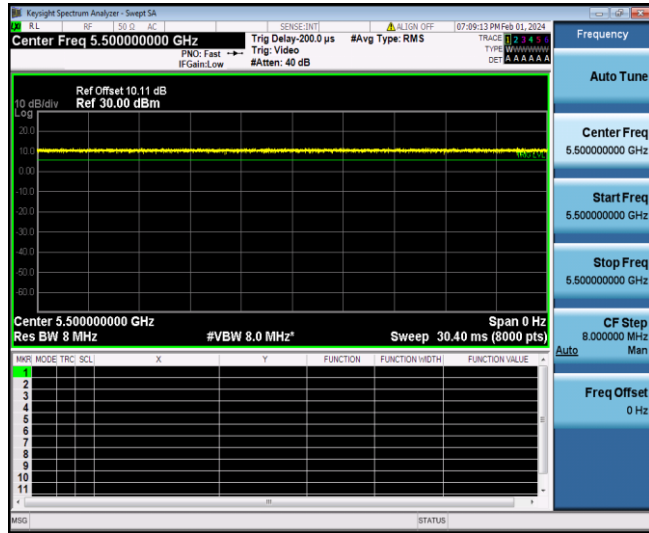
Appendix D.3: Duty Cycle

Test Result

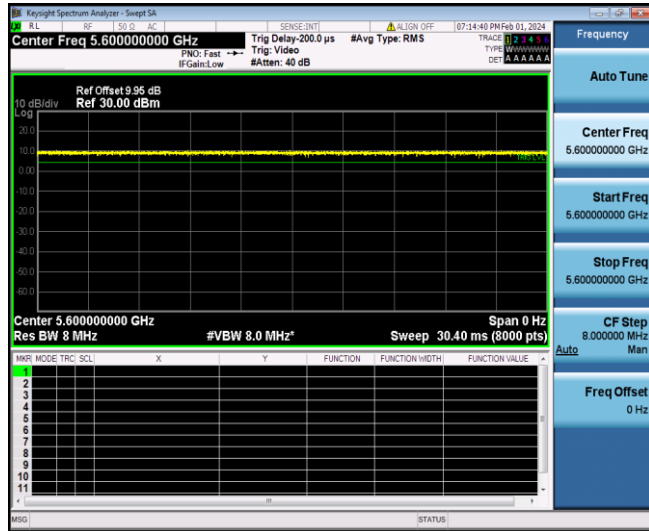
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5600	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5600	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03

Test Graphs

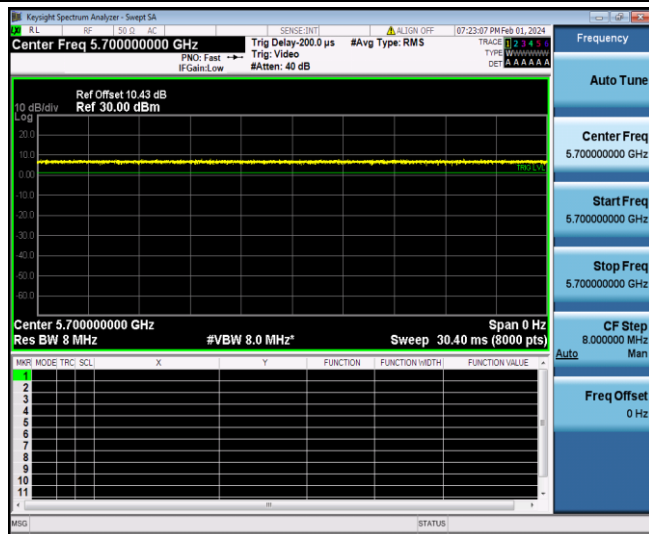
11A_Ant1_5500



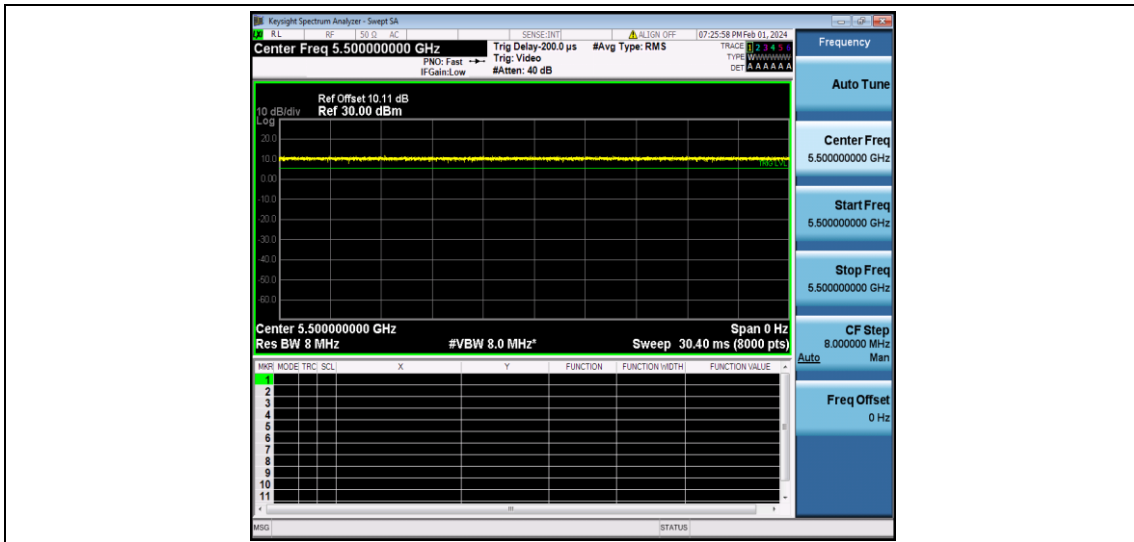
11A_Ant1_5600



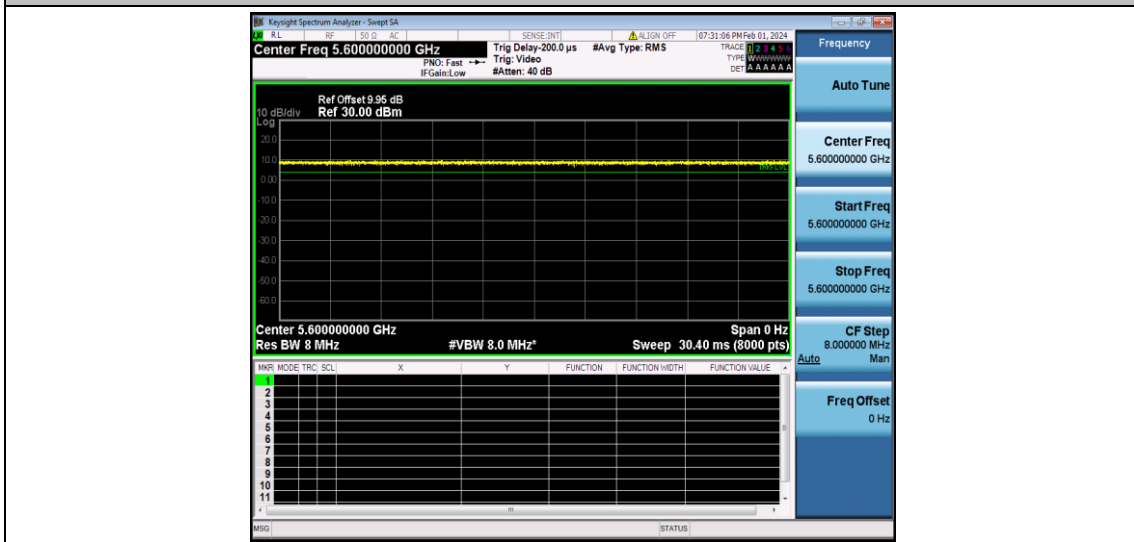
11A_Ant1_5700



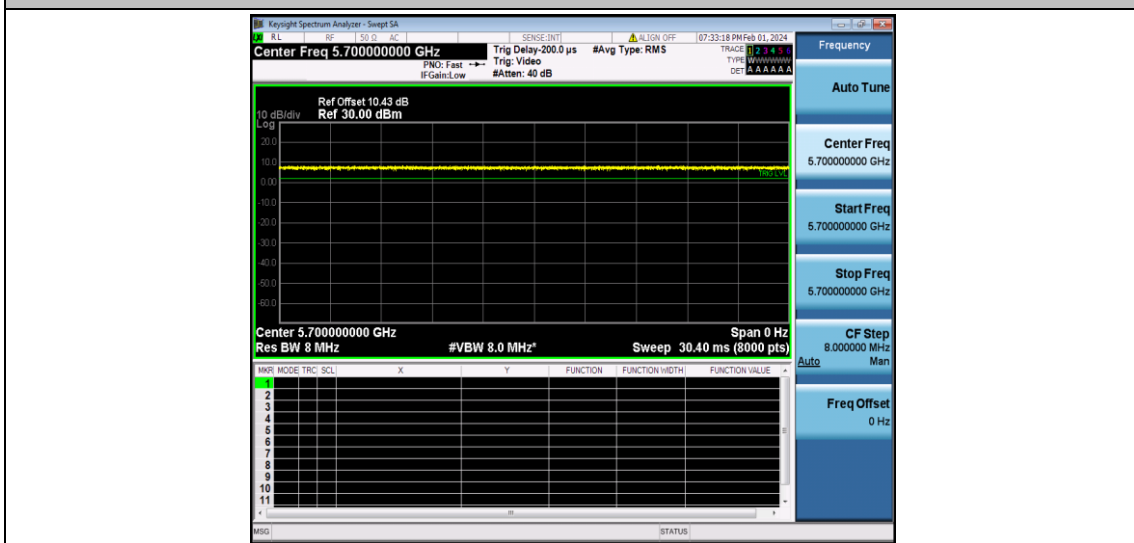
11N20SISO_Ant1_5500



11N20SISO_Ant1_5600



11N20SISO_Ant1_5700



Appendix D.4: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq (MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11A	Ant1	5500	16.33	100.00	0.00	16.33	≤23.98	0.00	PASS
		5600	16.20	100.00	0.00	16.20	≤23.98	0.00	PASS
		5700	16.22	100.00	0.00	16.22	≤23.98	0.00	PASS
11N20 SISO	Ant1	5500	16.31	100.00	0.00	16.31	≤23.98	0.00	PASS
		5600	16.75	100.00	0.00	16.75	≤23.98	0.00	PASS
		5700	16.93	100.00	0.00	16.93	≤23.98	0.00	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 D.5: Maximum power spectral density

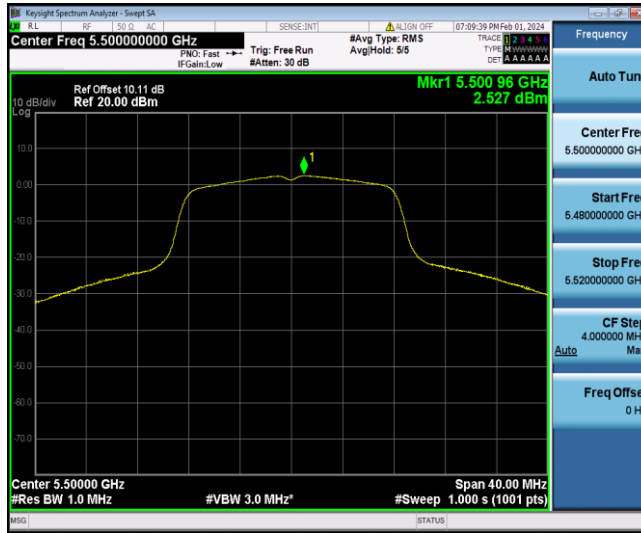
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5500	2.53	≤11.00	PASS
		5600	1.39	≤11.00	PASS
		5700	-1.46	≤11.00	PASS
11N20SISO	Ant1	5500	2.27	≤11.00	PASS
		5600	0.74	≤11.00	PASS
		5700	-0.86	≤11.00	PASS

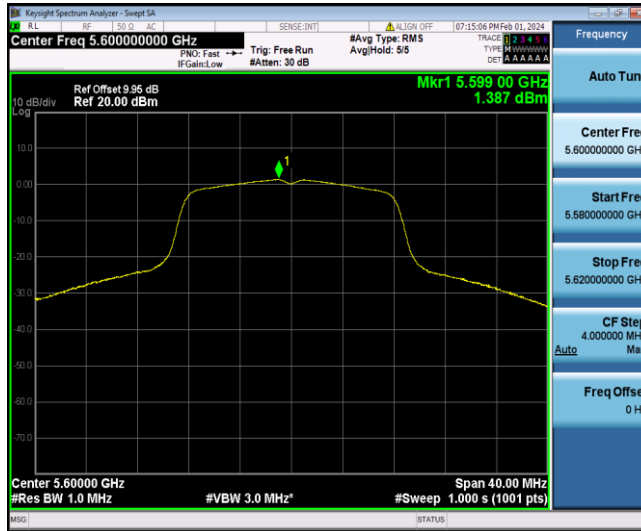
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

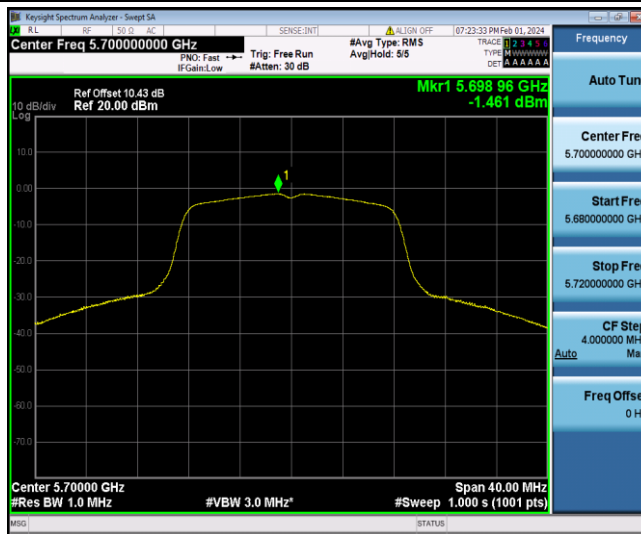
11A_Ant1_5500



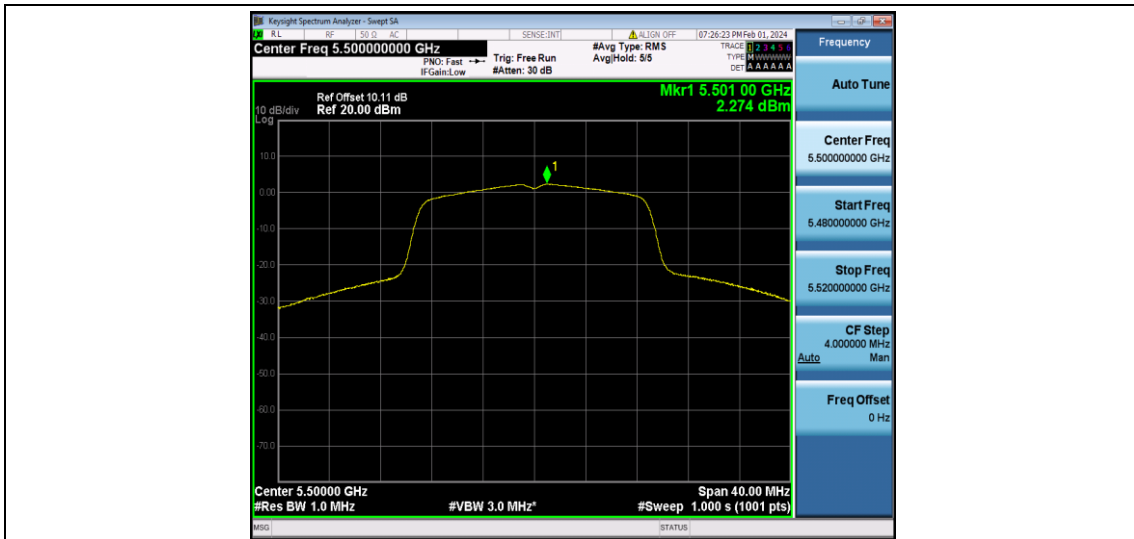
11A_Ant1_5600



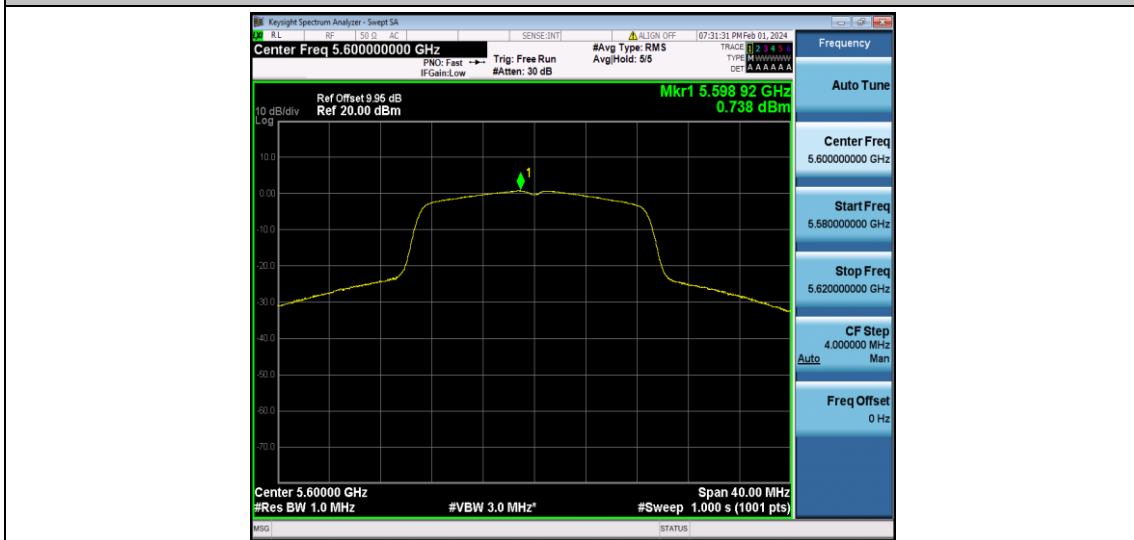
11A_Ant1_5700



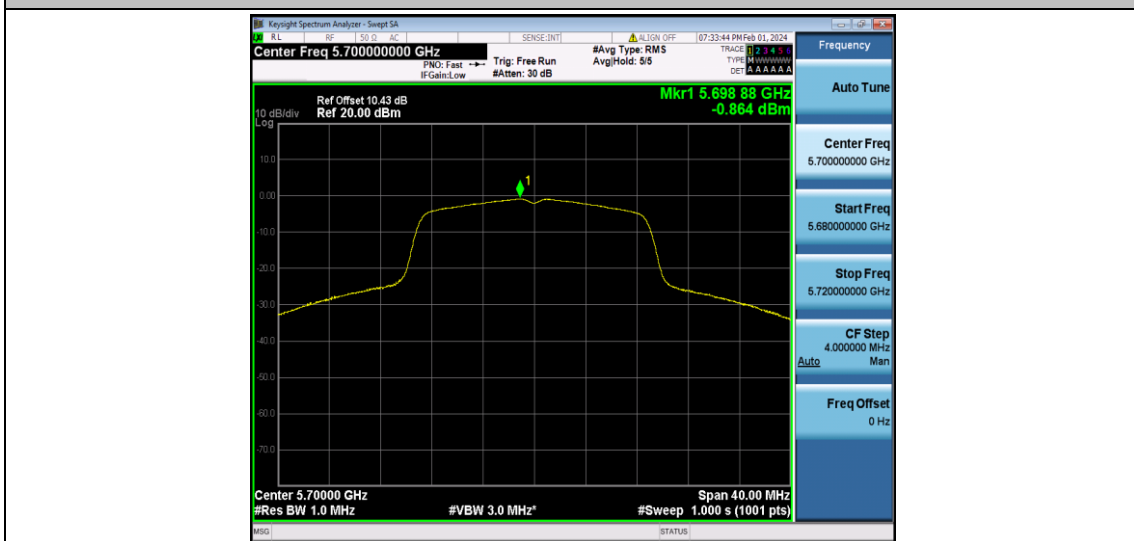
11N20SISO_Ant1_5500



11N20SISO_Ant1_5600



11N20SISO_Ant1_5700



Appendix D.6: Band edge measurements

Test Result B3

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5500	-27.69	≤ -27	PASS
		High	5700	-31.83	≤ -27	PASS
11N20SISO	Ant1	Low	5500	-29.43	≤ -27	PASS
		High	5700	-28.49	≤ -27	PASS

Test Graphs B3

11A_Ant1_Low_5500



11A_Ant1_High_5700



11N20SISO_Ant1_Low_5500



11N20SISO_Ant1_High_5700



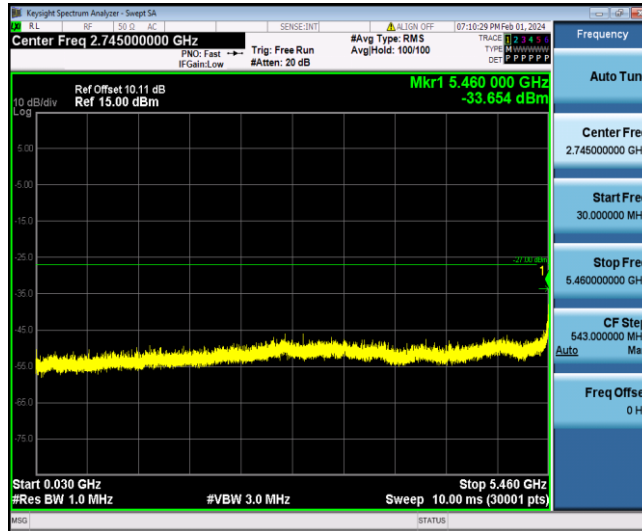
Appendix D.7: Conducted Spurious Emission

Test Result

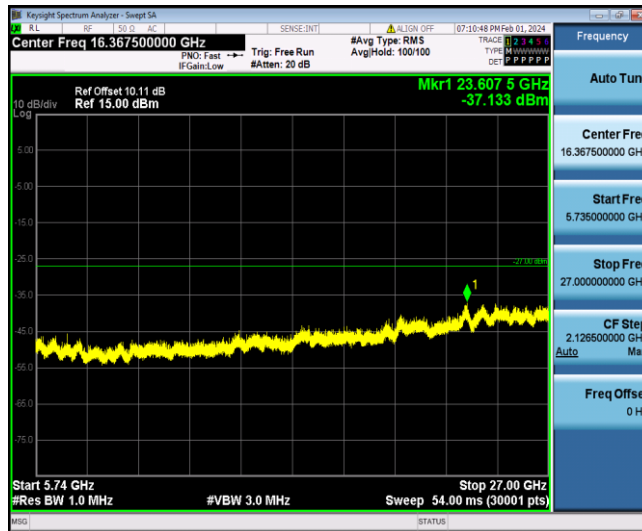
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	30~5460	5460	-33.65	≤-27	PASS
			5735~40000	23607.52	-37.13	≤-27	PASS
		5600	30~5460	5409.14	-46.04	≤-27	PASS
			5735~40000	24207.91	-37.27	≤-27	PASS
		5700	30~5460	5458.55	-45.29	≤-27	PASS
			5735~40000	26661.89	-36.88	≤-27	PASS
11N20SISO	Ant1	5500	30~5460	5458.01	-36.32	≤-27	PASS
			5735~40000	24245.47	-36.57	≤-27	PASS
		5600	30~5460	5432.31	-45.46	≤-27	PASS
			5735~40000	24320.61	-36.6	≤-27	PASS
		5700	30~5460	5384.16	-43.61	≤-27	PASS
			5735~40000	5744.92	-27.93	≤-27	PASS

Test Graphs

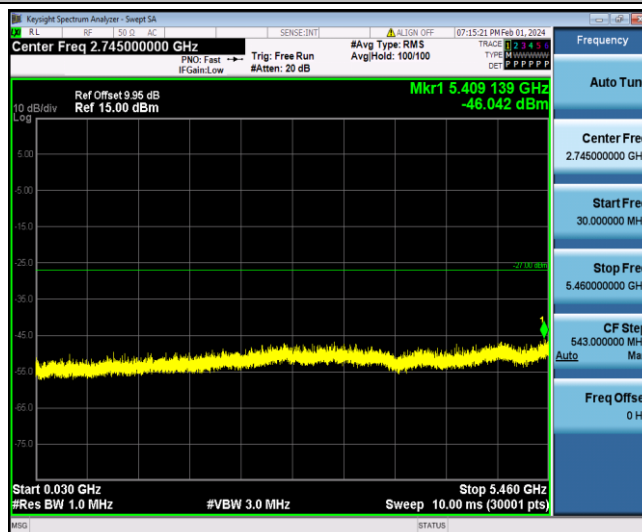
11A_Ant1_5500_30~5460



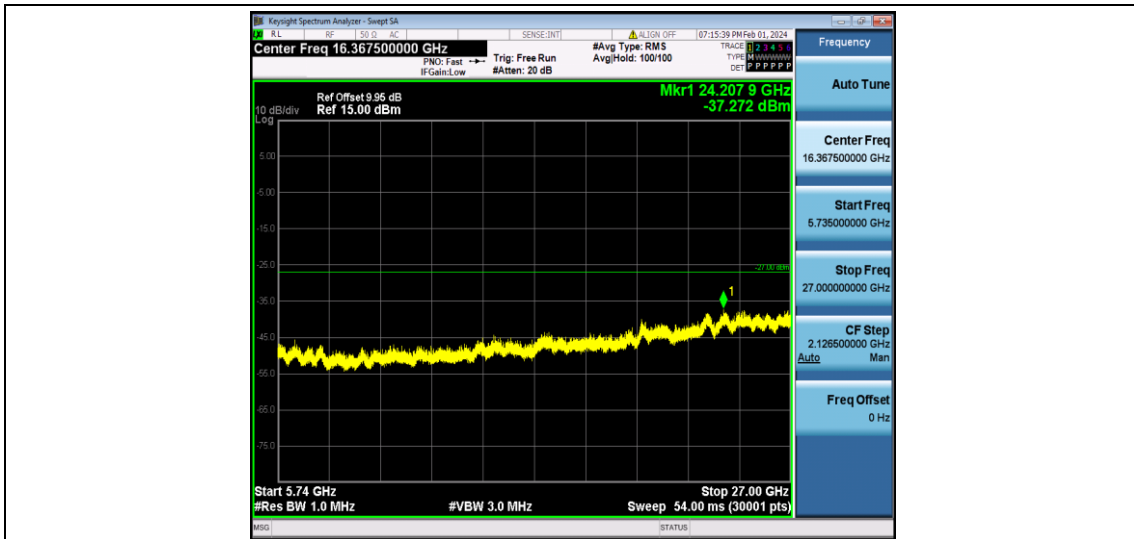
11A_Ant1_5500_5735~40000



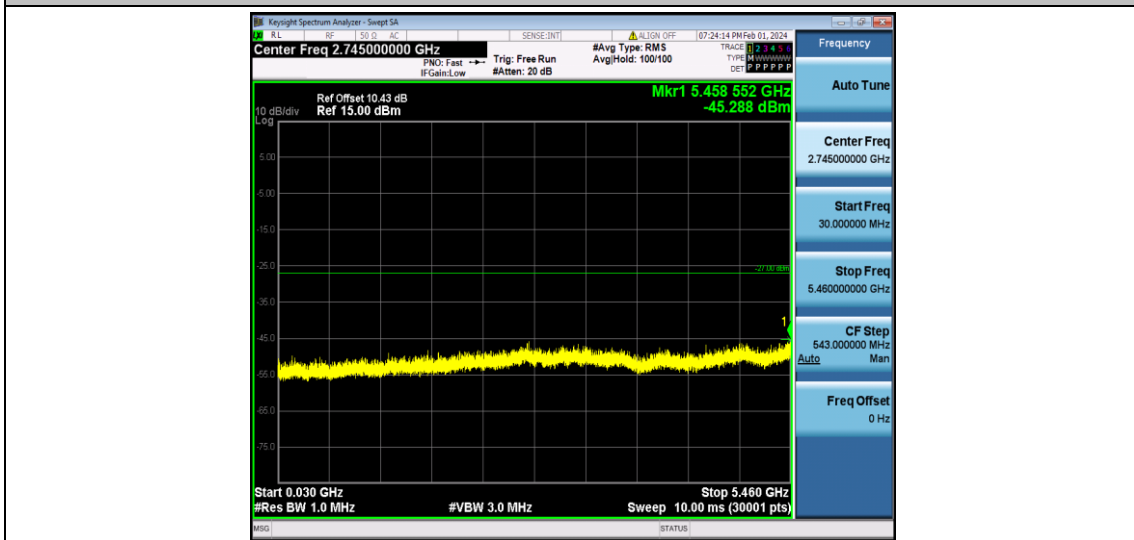
11A_Ant1_5600_30~5460



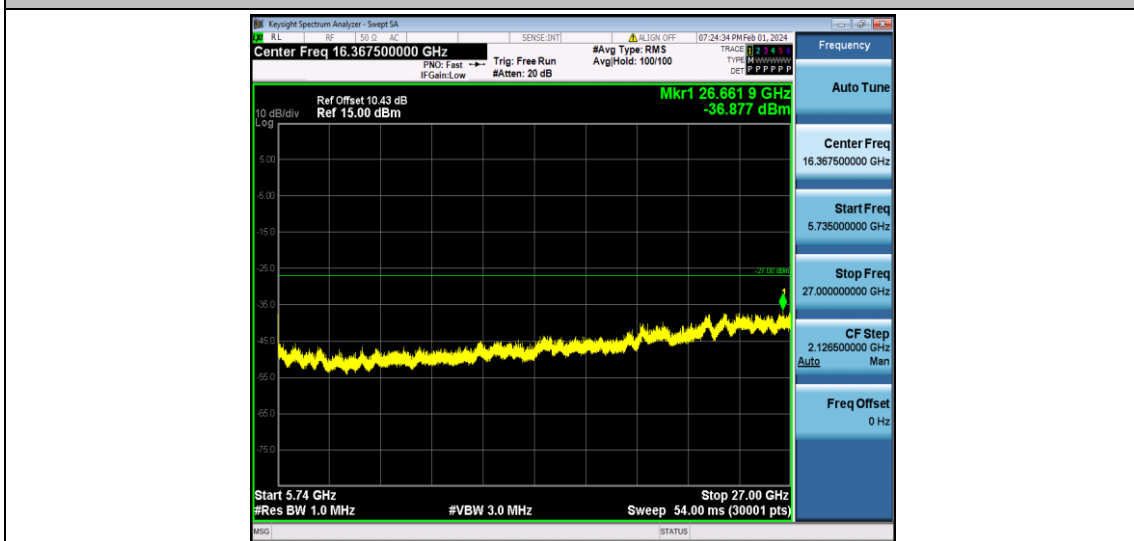
11A_Ant1_5600_5735~40000



11A_Ant1_5700_30~5460



11A_Ant1_5700_5735~40000



11N20SISO_Ant1_5500_30~5460



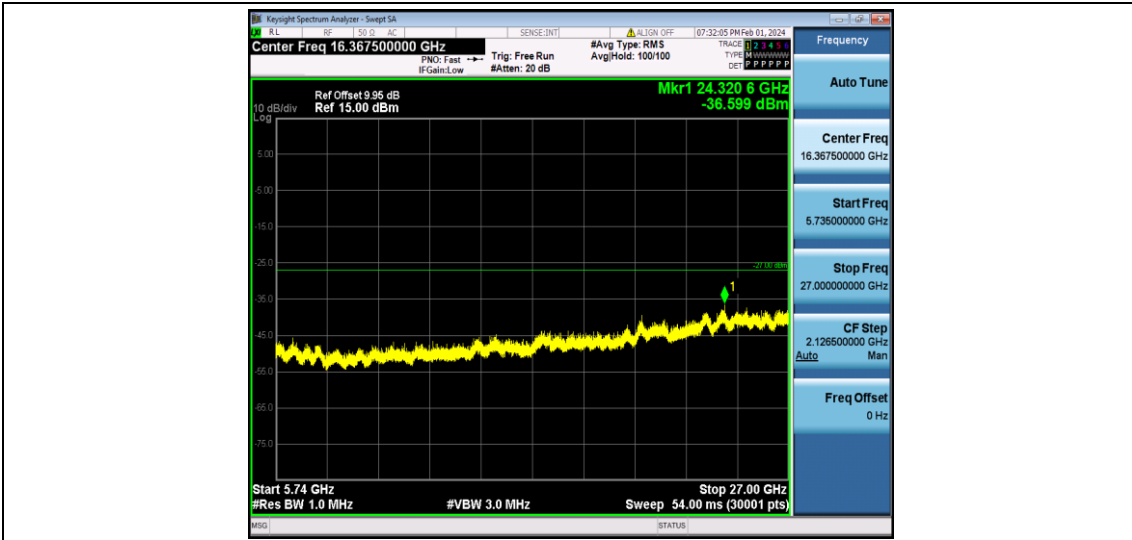
11N20SISO_Ant1_5500_5735~40000



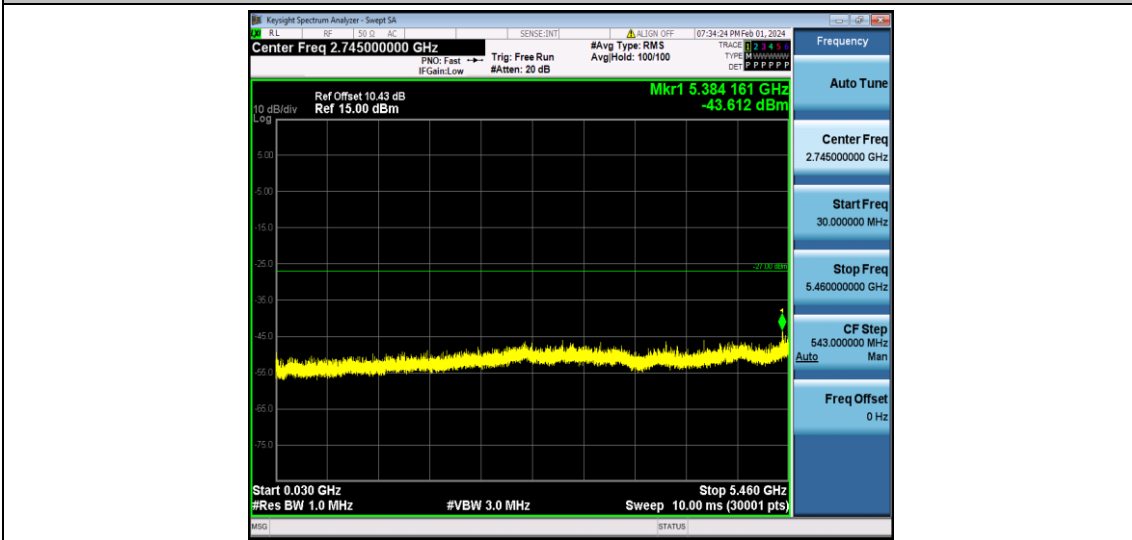
11N20SISO_Ant1_5600_30~5460



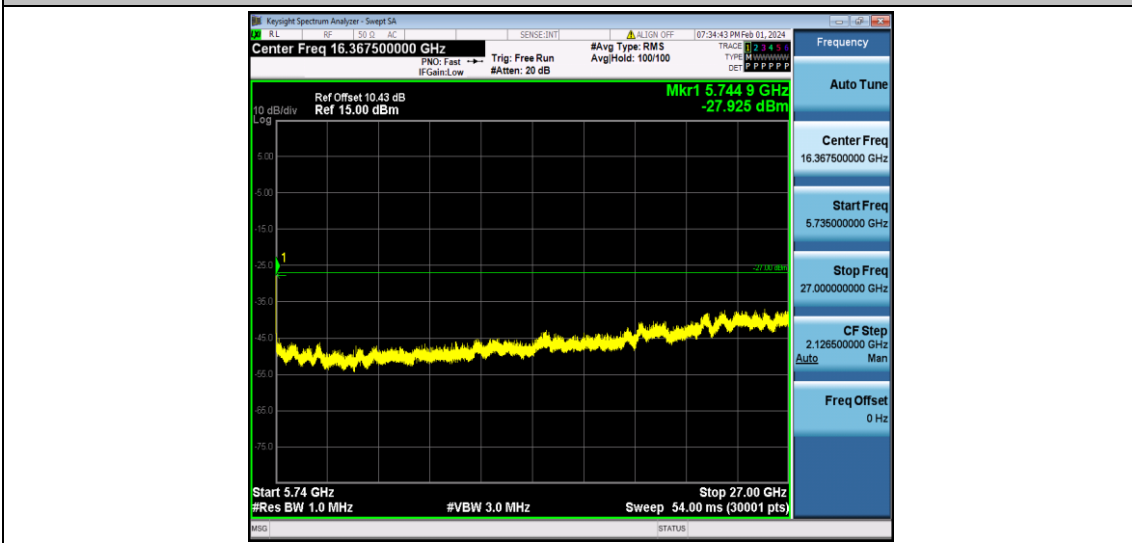
11N20SISO_Ant1_5600_5735~40000



11N20SISO_Ant1_5700_30~5460



11N20SISO_Ant1_5700_5735~40000



Appendix D.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	-1000	≤-41.20	-904.80	≤54	PASS
				AV	5350.430	-1000	≤-41.20	-904.80	≤54	PASS
				AV	5460.000	-1000	≤-41.20	-904.80	≤54	PASS
				Peak	5350.000	-43.6	≤-21.20	51.60	≤74	PASS
				Peak	5390.190	-37.42	≤-21.20	57.78	≤74	PASS
				Peak	5460.000	-42.23	≤-21.20	52.97	≤74	PASS
11N20SIS O	Ant1	Low	5500	AV	5350.000	-46.73	≤-41.20	48.47	≤54	PASS
				AV	5459.770	-43.48	≤-41.20	51.72	≤54	PASS
				AV	5460.000	-43.48	≤-41.20	51.72	≤54	PASS
				Peak	5350.000	-44	≤-21.20	51.20	≤74	PASS
				Peak	5459.770	-34.95	≤-21.20	60.25	≤74	PASS
				Peak	5460.000	-34.95	≤-21.20	60.25	≤74	PASS

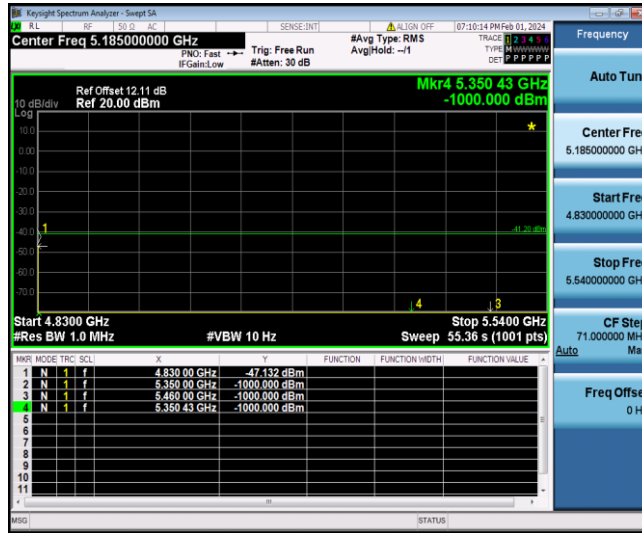
Note:

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

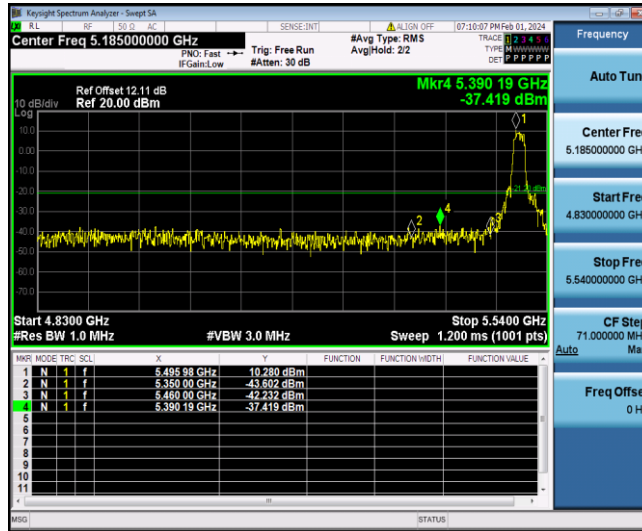
For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

11A_Ant1_Low_5500_AV



11A_Ant1_Low_5500_Peak



11N20SISO_Ant1_Low_5500_AV



11N20SISO_Ant1_Low_5500_Peak

