

Case No. : <u>CTA24061301903</u>
Ambient Condition: <u>23 °C, 49 %RH</u>
According Standard: <u>■Part15E</u>
Test Date: <u>2024.6.4</u> Test Engineer: <u>Lushan Kong</u>

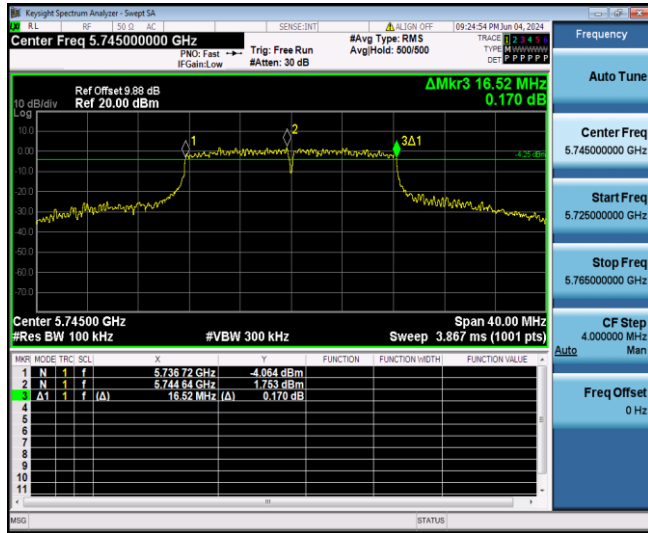
Appendix E.1: Min emission bandwidth

Test Result B4

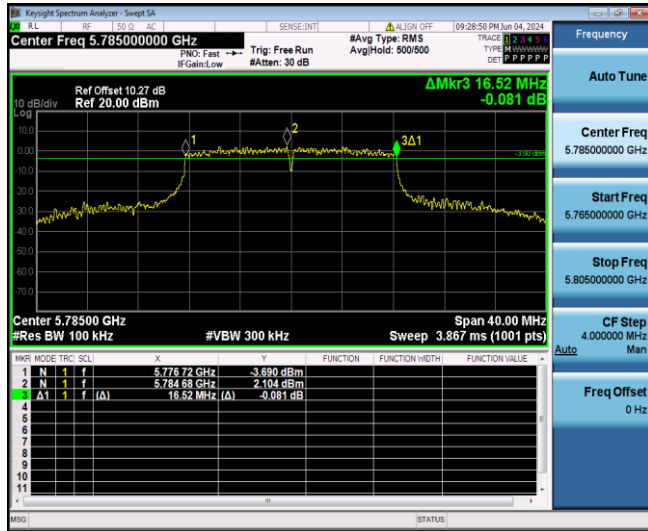
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.520	5736.720	5753.240	0.5	PASS
		5785	16.520	5776.720	5793.240	0.5	PASS
		5825	16.520	5816.720	5833.240	0.5	PASS
11N20SISO	Ant1	5745	17.680	5736.120	5753.800	0.5	PASS
		5785	17.680	5776.120	5793.800	0.5	PASS
		5825	17.680	5816.120	5833.800	0.5	PASS

Test Graphs B4

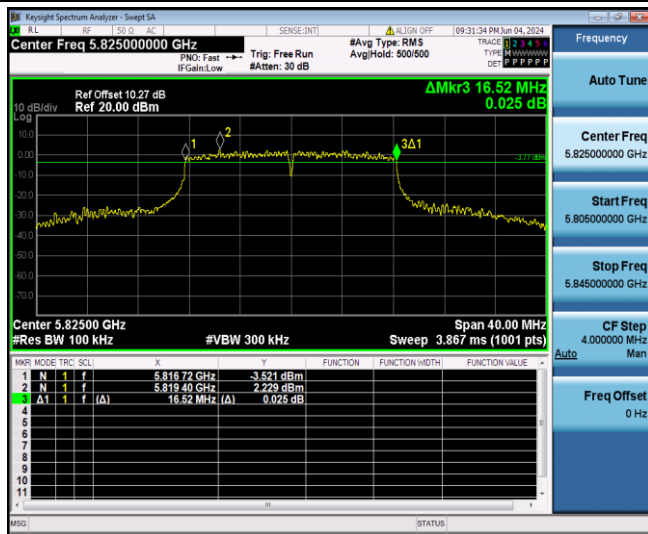
11A_Ant1_5745



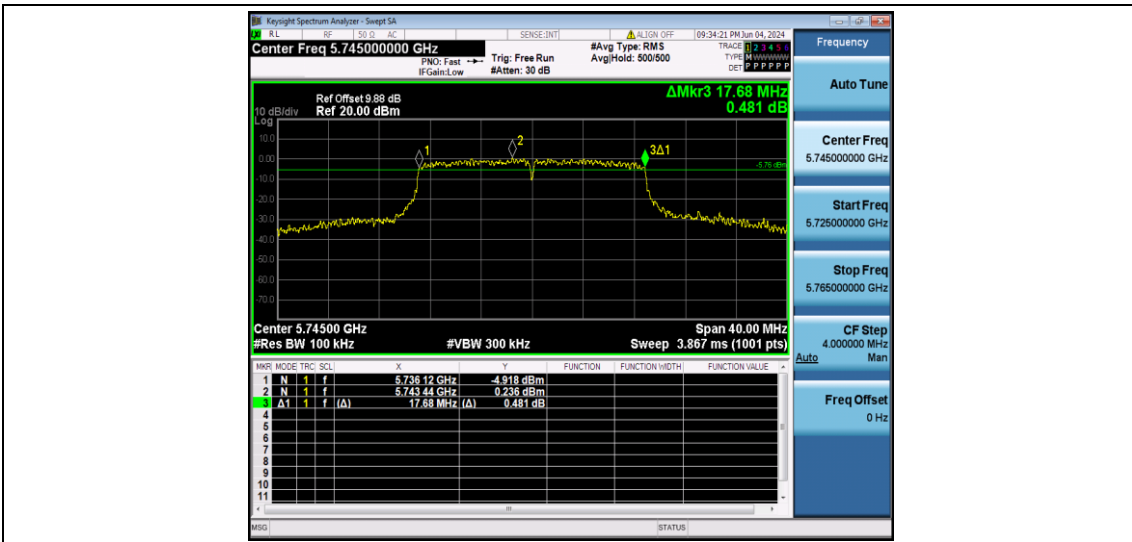
11A_Ant1_5785



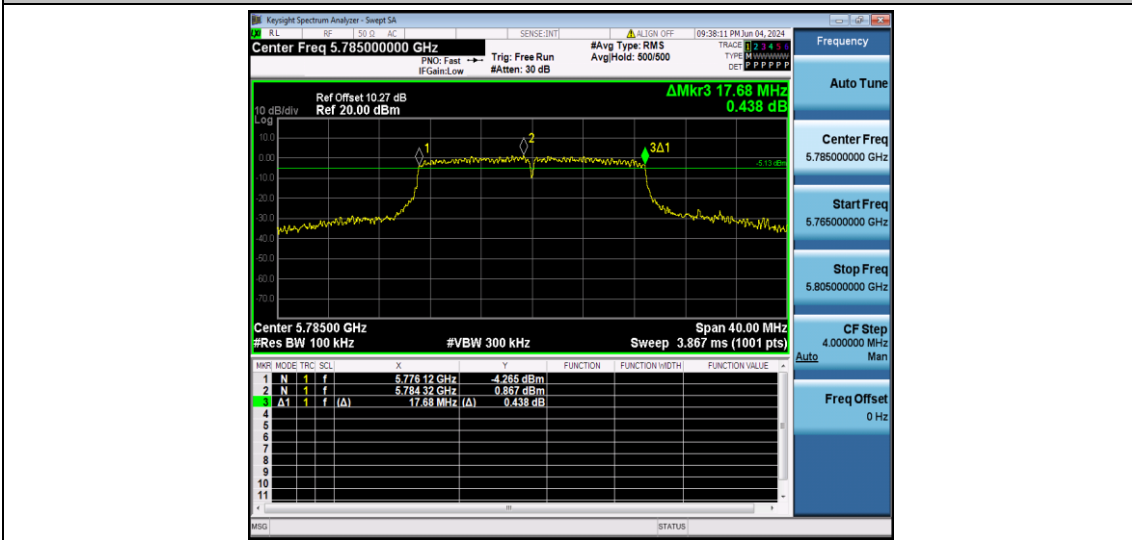
11A_Ant1_5825



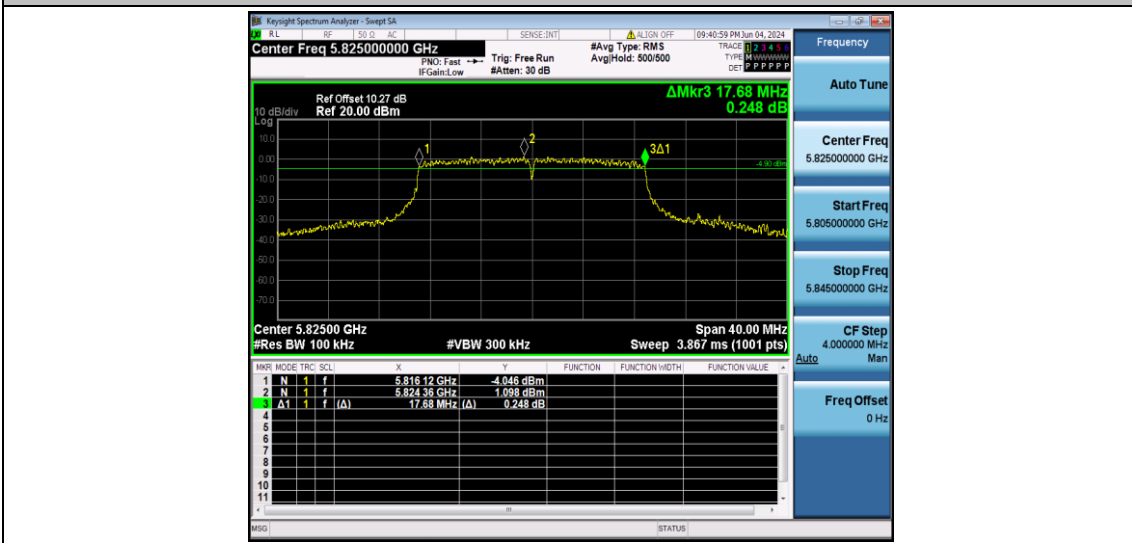
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



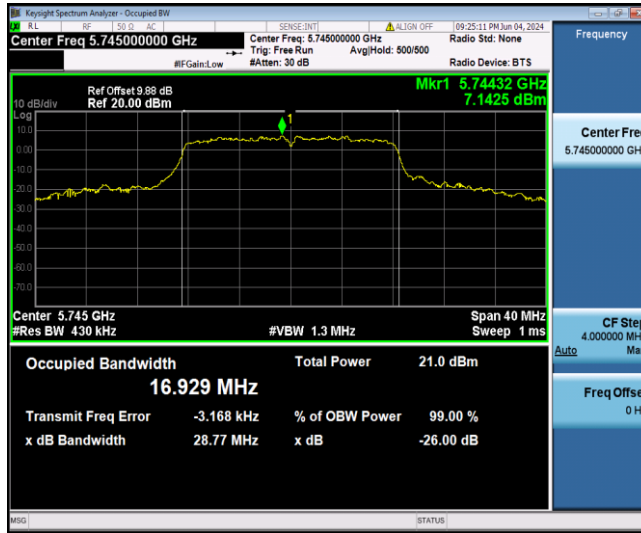
Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5745	16.929	5736.5323	5753.4613
		5785	16.848	5776.5523	5793.4003
		5825	16.808	5816.5604	5833.3684
11N20SISO	Ant1	5745	17.865	5736.0492	5753.9142
		5785	17.861	5776.0430	5793.9040
		5825	17.811	5816.0520	5833.8630

Test Graphs

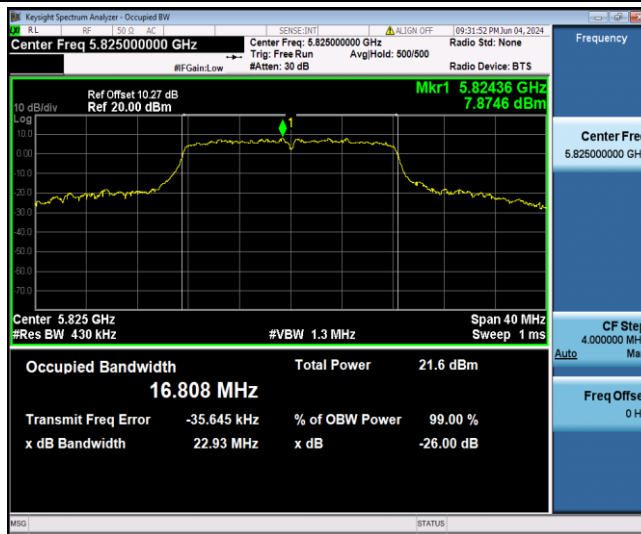
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



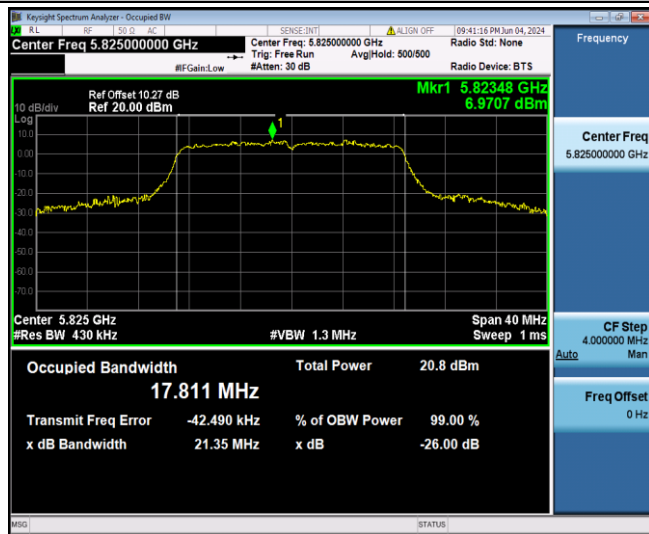
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



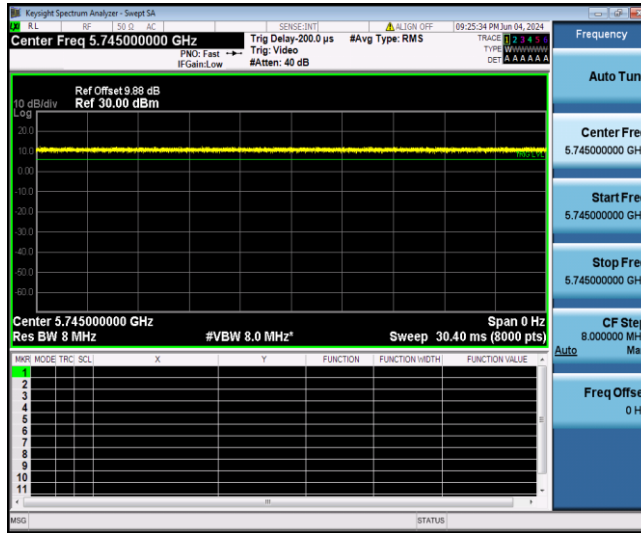
Appendix E.3 : Duty Cycle

Test Result

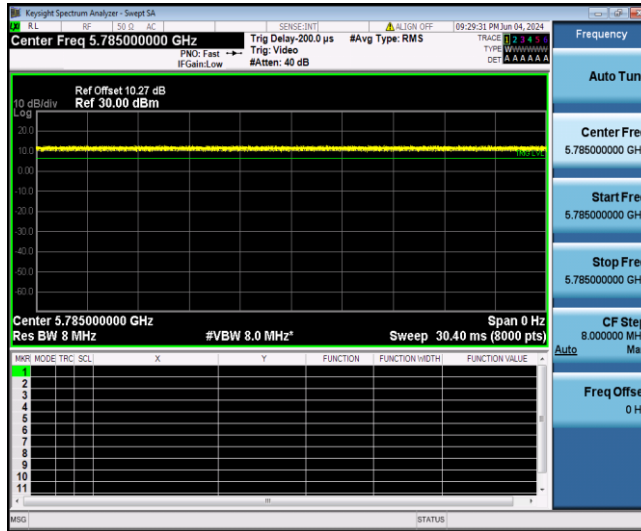
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03

Test Graphs

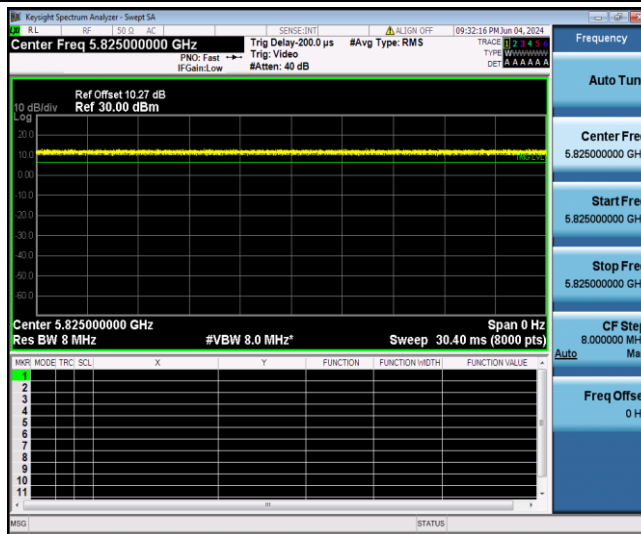
11A_Ant1_5745



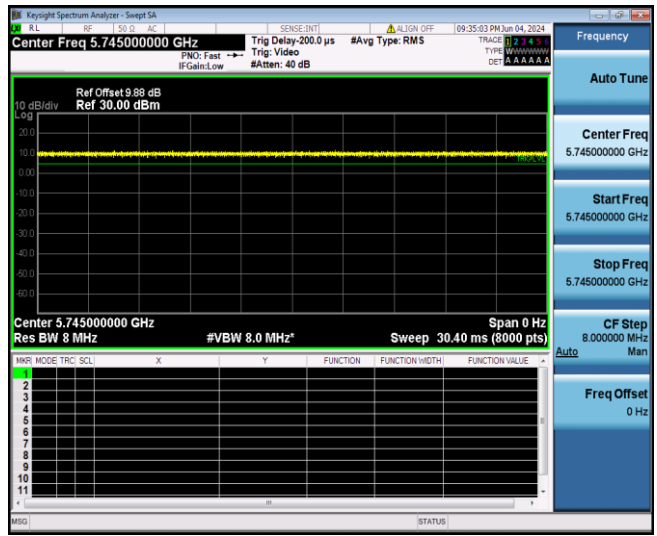
11A_Ant1_5785



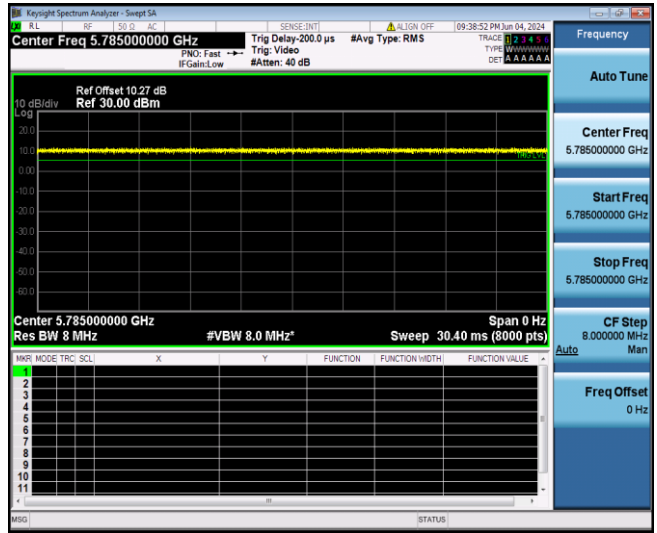
11A_Ant1_5825



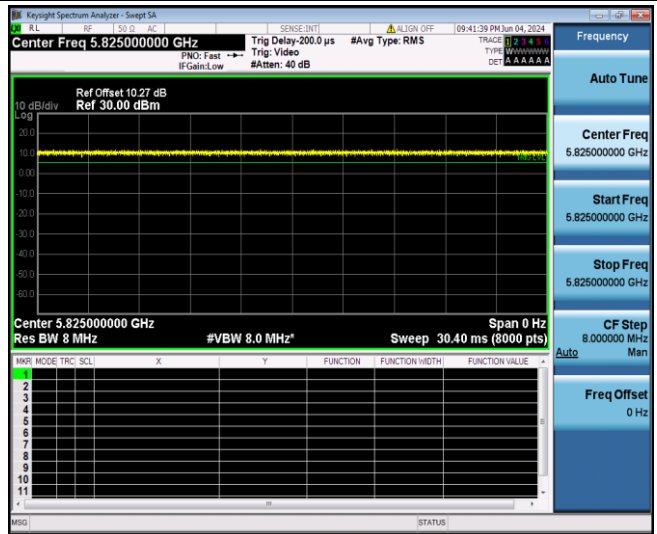
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



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	5745	16.98	100.00	0.00	16.98	≤30.00	PASS
		5785	16.43	100.00	0.00	16.43	≤30.00	PASS
		5825	16.60	100.00	0.00	16.60	≤30.00	PASS
11N20SISO	Ant1	5745	16.95	100.00	0.00	16.95	≤30.00	PASS
		5785	16.60	100.00	0.00	16.60	≤30.00	PASS
		5825	16.68	100.00	0.00	16.68	≤30.00	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 E.5: Maximum power spectral density

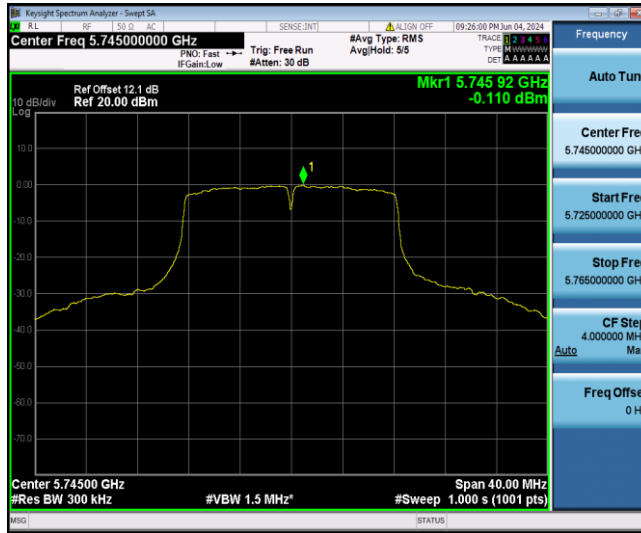
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-0.11	≤30.00	PASS
		5785	0.32	≤30.00	PASS
		5825	0.55	≤30.00	PASS
11N20SISO	Ant1	5745	-1.57	≤30.00	PASS
		5785	-0.92	≤30.00	PASS
		5825	-0.83	≤30.00	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_5745



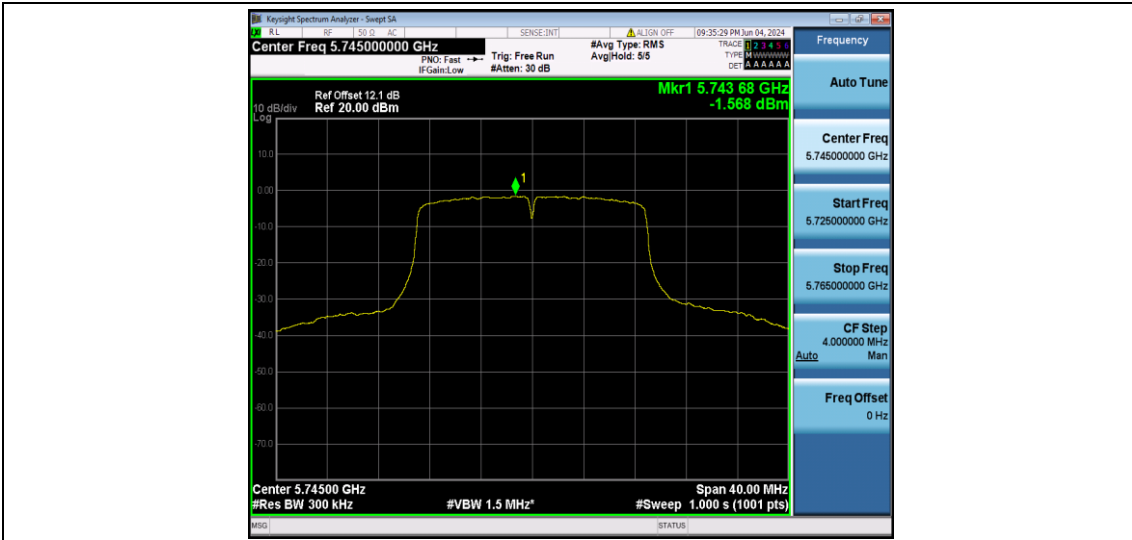
11A_Ant1_5785



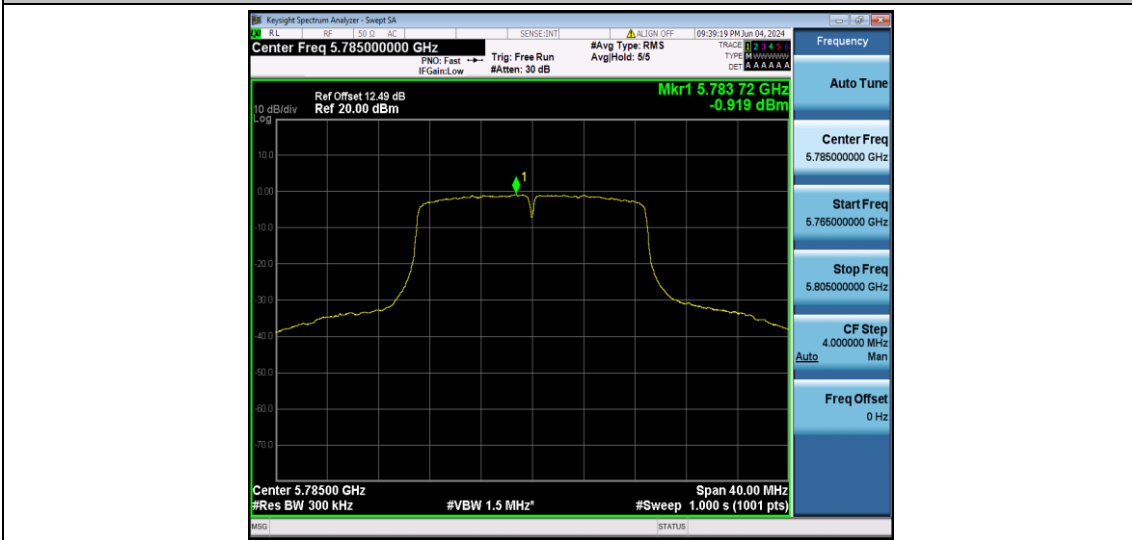
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-38.72	≤-26.79	PASS
				5700~5720	-28.97	≤14.15	PASS
				5720~5725	-27.88	≤17.13	PASS
				5760~5650	-38.6	≤-27	PASS
		High	5825	5850~5855	-34	≤16.34	PASS
				5855~5875	-37.66	≤10.97	PASS
				5875~5925	-37.46	≤-25.71	PASS
				5925~5935	-36.71	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.42	≤-26.70	PASS
				5700~5720	-25.72	≤15.59	PASS
				5720~5725	-27.08	≤16.08	PASS
				5760~5650	-39.66	≤-27	PASS
		High	5825	5850~5855	-36.32	≤15.73	PASS
				5855~5875	-38.47	≤10.51	PASS
				5875~5925	-38.96	≤-26.51	PASS
				5925~5935	-37.91	≤-27	PASS

Test Graphs B4

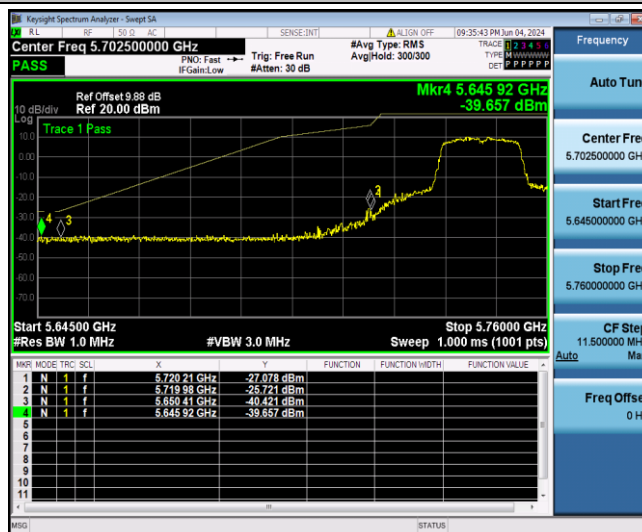
11A_Ant1_Low_5745



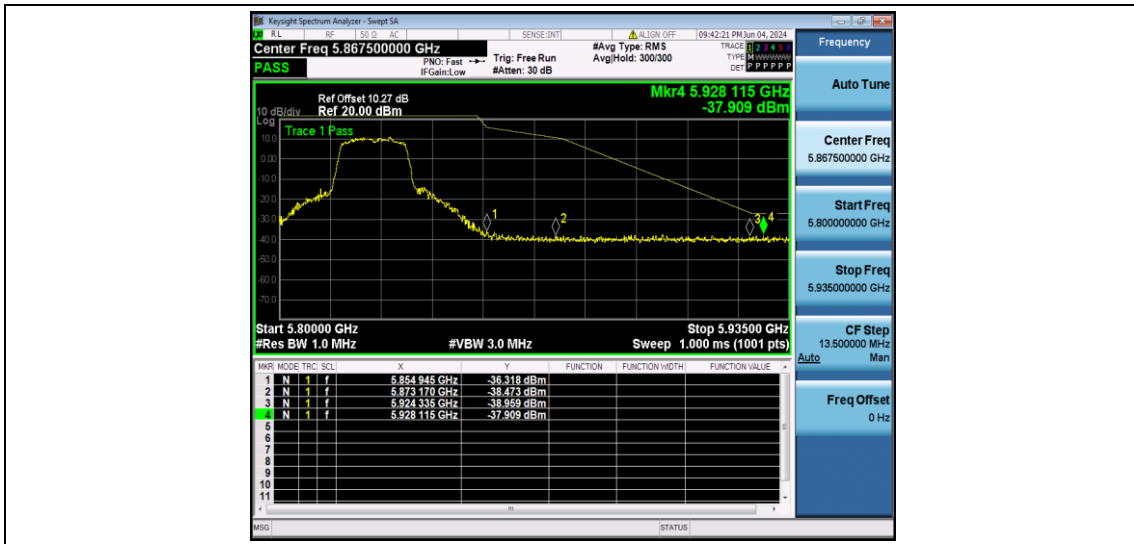
11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



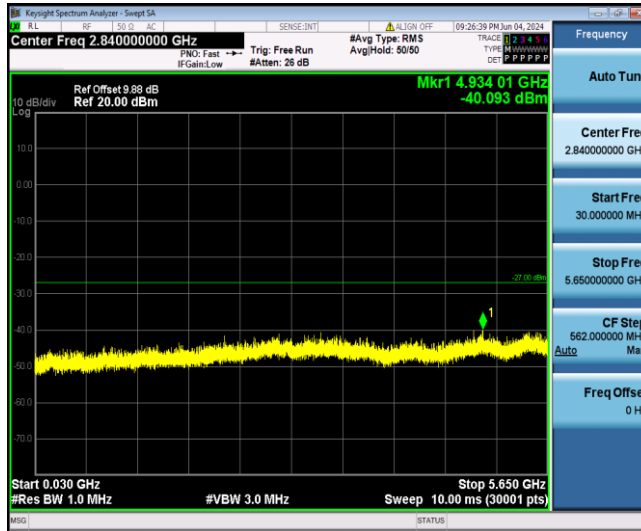
Appendix E.7: Conducted Spurious Emission

Test Result

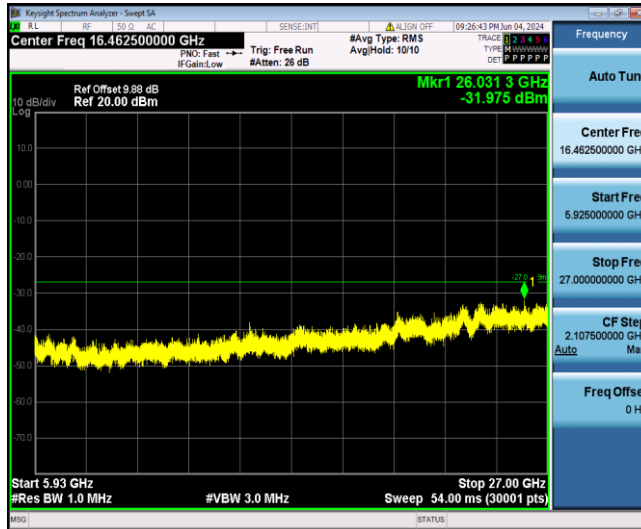
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	4934.01	-40.09	≤-27	PASS
			5925~40000	26031.25	-31.98	≤-27	PASS
		5785	30~5650	5549.03	-38.44	≤-27	PASS
			5925~40000	23526.14	-31.67	≤-27	PASS
		5825	30~5650	5255.66	-39.26	≤-27	PASS
			5925~40000	24230.75	-31.57	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5371.25	-40.38	≤-27	PASS
			5925~40000	24142.93	-32.08	≤-27	PASS
		5785	30~5650	5517.37	-39.09	≤-27	PASS
			5925~40000	24241.28	-31.23	≤-27	PASS
		5825	30~5650	5437.38	-39.93	≤-27	PASS
			5925~40000	24955.73	-31.41	≤-27	PASS

Test Graphs

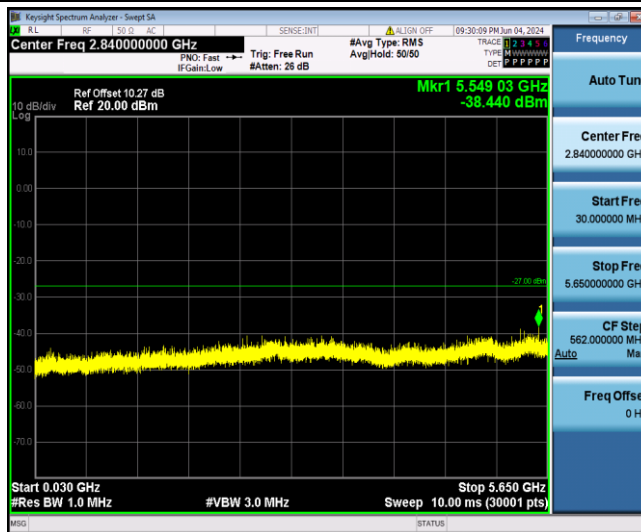
11A_Ant1_5745_30~5650



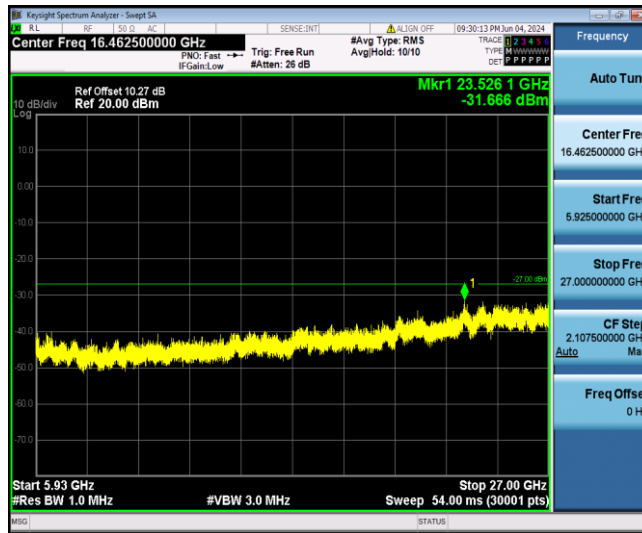
11A_Ant1_5745_5925~40000



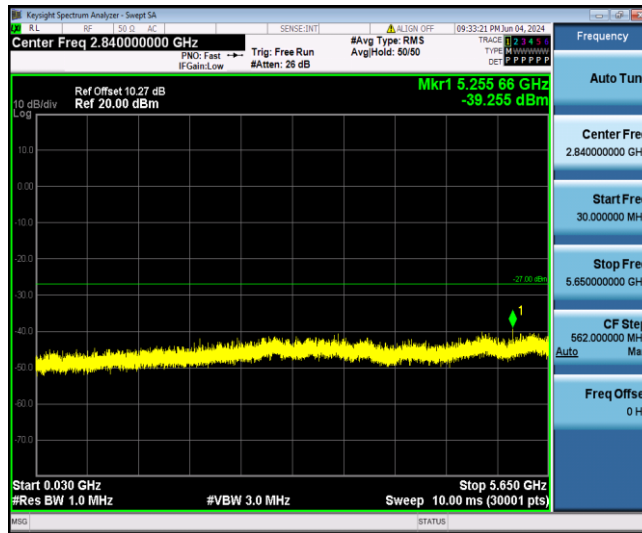
11A_Ant1_5785_30~5650



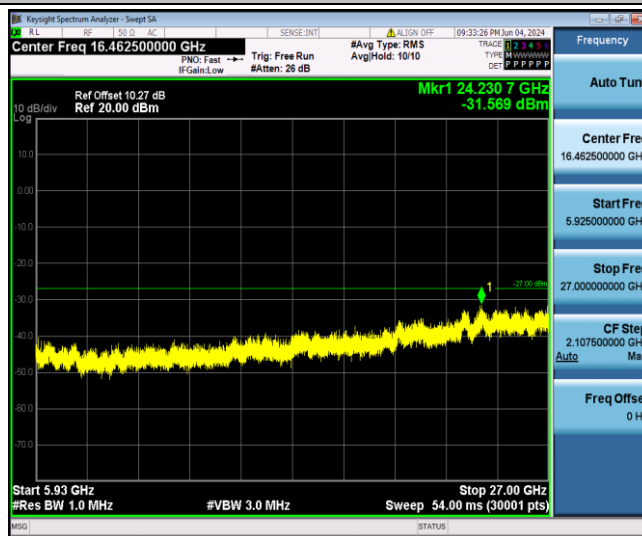
11A_Ant1_5785_5925~40000



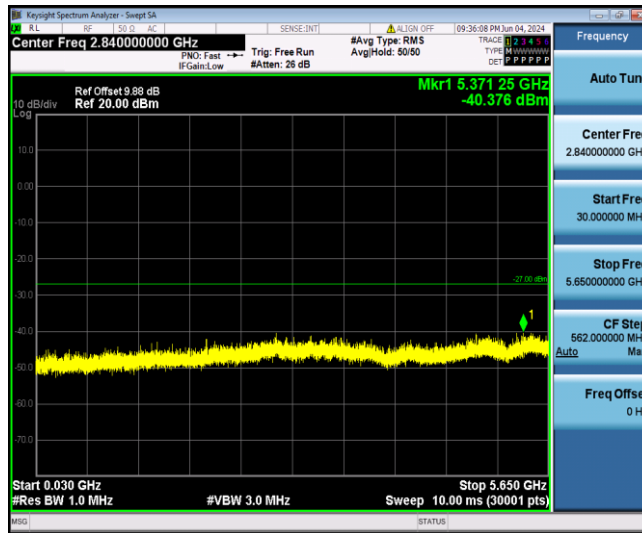
11A_Ant1_5825_30~5650



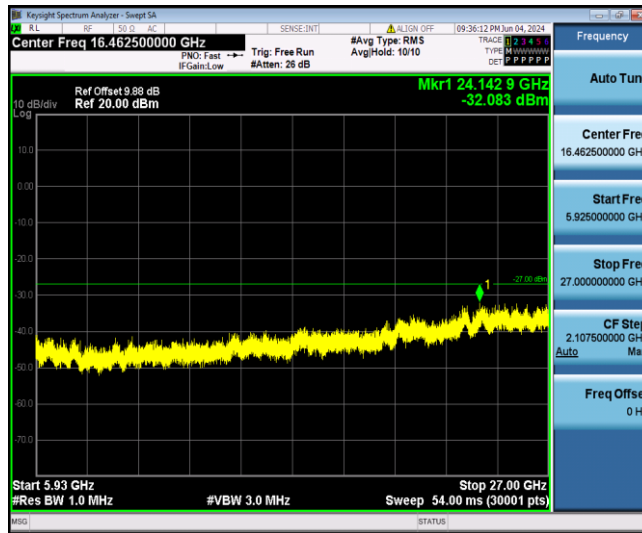
11A_Ant1_5825_5925~40000



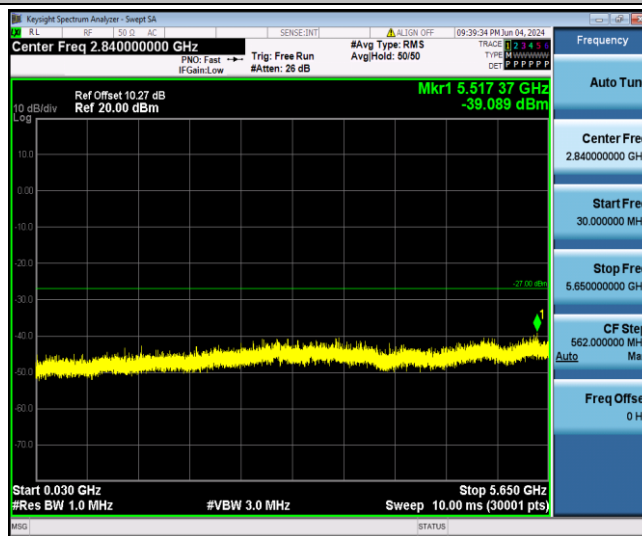
11N20SISO_Ant1_5745_30~5650



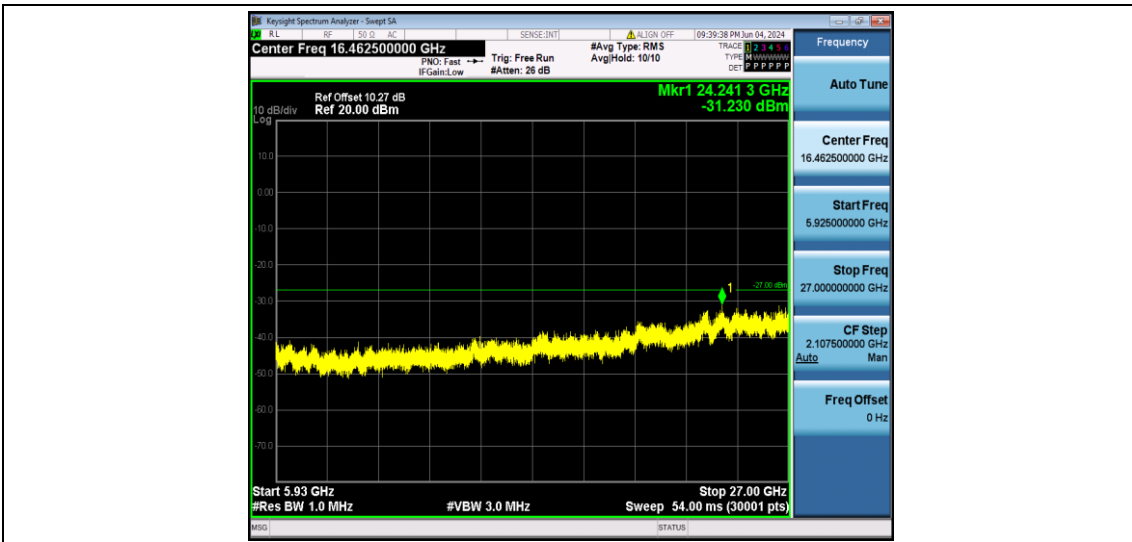
11N20SISO_Ant1_5745_5925~40000



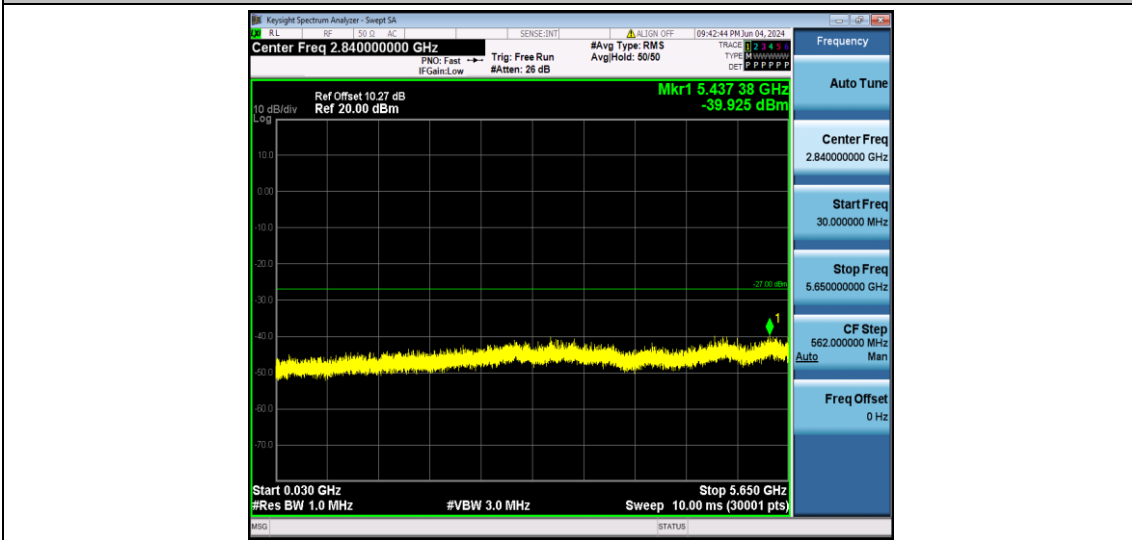
11N20SISO_Ant1_5785_30~5650



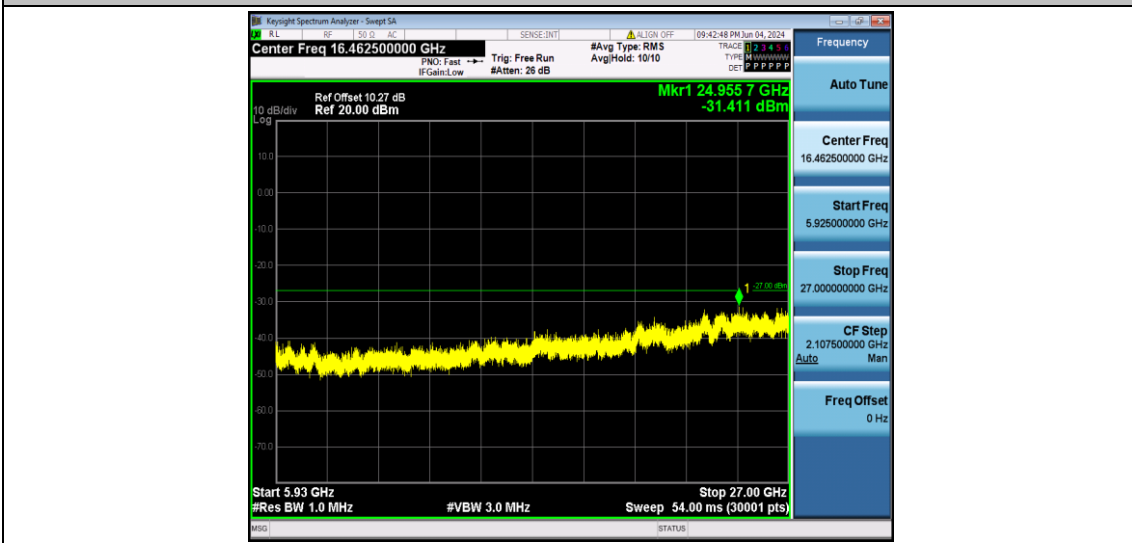
11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~40000



Appendix E.8: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-42.874	≤-27.00	PASS
				Peak	5700.000	-41.79	≤10.00	PASS
				Peak	5720.000	-33.36	≤15.60	PASS
				Peak	5725.000	-29.51	≤27.00	PASS
		High	5825	Peak	5850.000	-33.333	≤27.00	PASS
				Peak	5855.000	-38.55	≤15.60	PASS
				Peak	5875.000	-39.79	≤10.00	PASS
				Peak	5925.000	-39.65	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-42.395	≤-27.00	PASS
				Peak	5700.000	-40.95	≤10.00	PASS
				Peak	5720.000	-30.53	≤15.60	PASS
				Peak	5725.000	-25.71	≤27.00	PASS
		High	5825	Peak	5850.000	-35.487	≤27.00	PASS
				Peak	5855.000	-37.4	≤15.60	PASS
				Peak	5875.000	-41.13	≤10.00	PASS
				Peak	5925.000	-41.19	≤-27.00	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

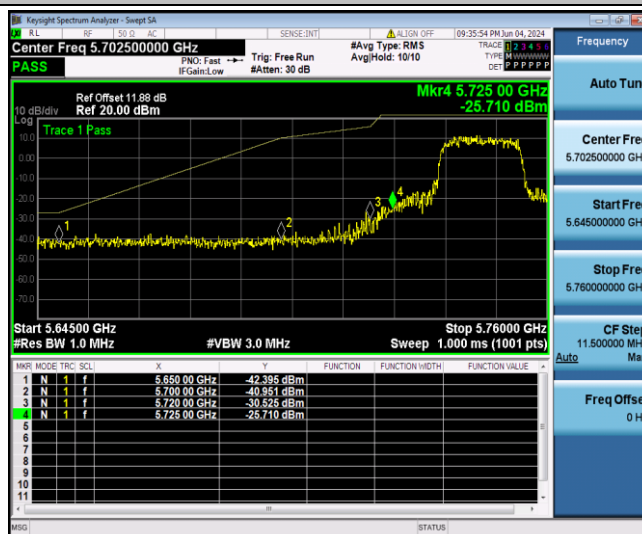
11A_Ant1_Low_5745_Peak



11A_Ant1_High_5825_Peak



11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak

