

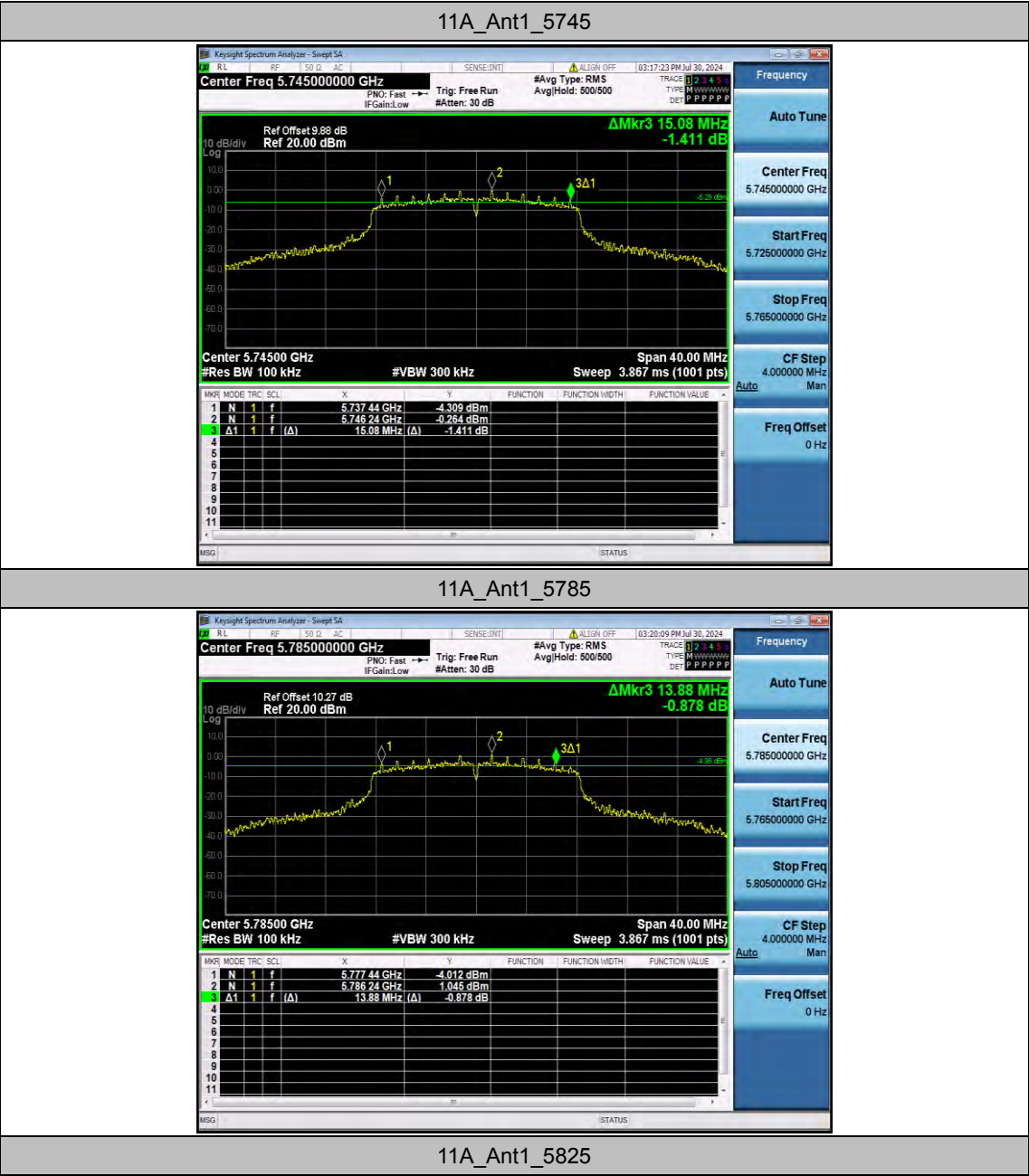
Case No. : <u>CTA24071501704</u>	
Ambient Condition: <u>22</u> °C, <u>52</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.7.30</u>	Test Engineer: <u>Lushan Kong</u>

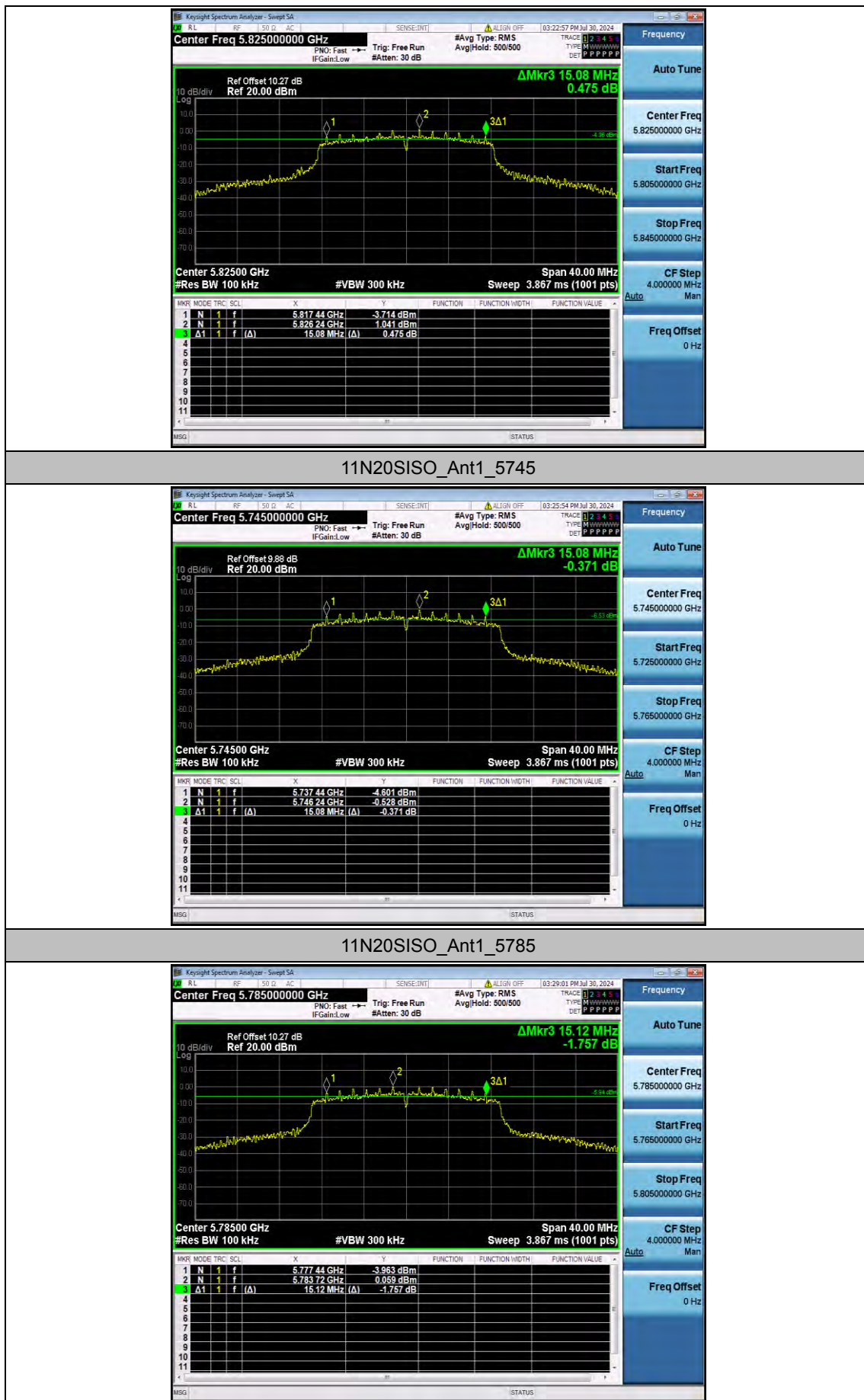
Appendix G.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	13.880	5777.440	5791.320	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4





11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



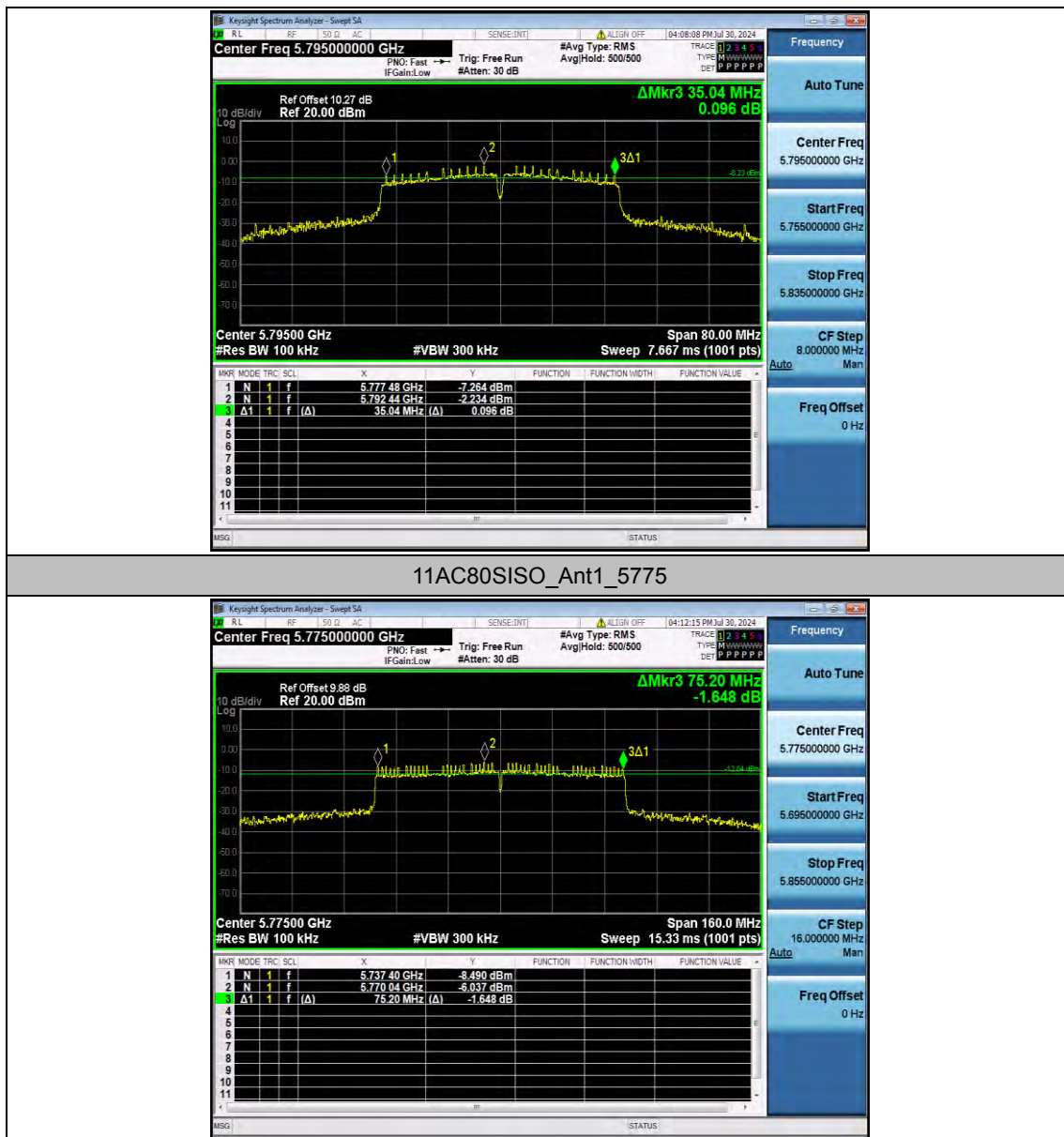
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



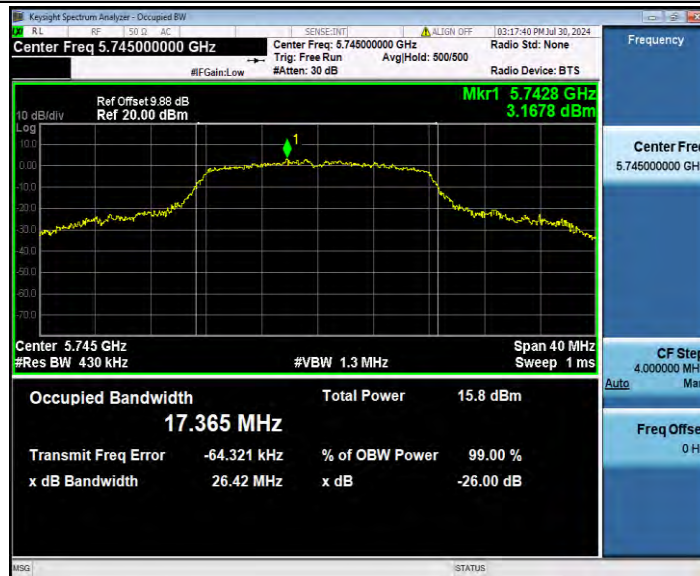
Appendix G.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.365	5736.2532	5753.6182	---	---
		5785	17.351	5776.2733	5793.6243	---	---
		5825	17.368	5816.3102	5833.6782	---	---
11N20SISO	Ant1	5745	18.213	5735.8734	5754.0864	---	---
		5785	18.182	5775.9050	5794.0870	---	---
		5825	18.216	5815.9197	5834.1357	---	---
11N40SISO	Ant1	5755	37.313	5736.2813	5773.5943	---	---
		5795	37.078	5776.4193	5813.4973	---	---
11AC20SISO	Ant1	5745	18.103	5735.9173	5754.0203	---	---
		5785	18.168	5775.9443	5794.1123	---	---
		5825	18.149	5815.9930	5834.1420	---	---
11AC40SISO	Ant1	5755	37.184	5736.3929	5773.5769	---	---
		5795	36.977	5776.5122	5813.4892	---	---
11AC80SISO	Ant1	5775	77.333	5736.1191	5813.4521	---	---

Test Graphs

11A_Ant1_5745



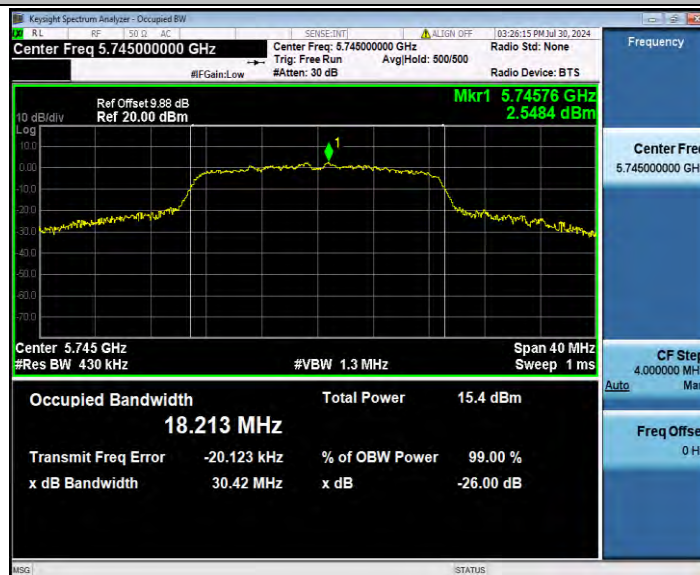
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



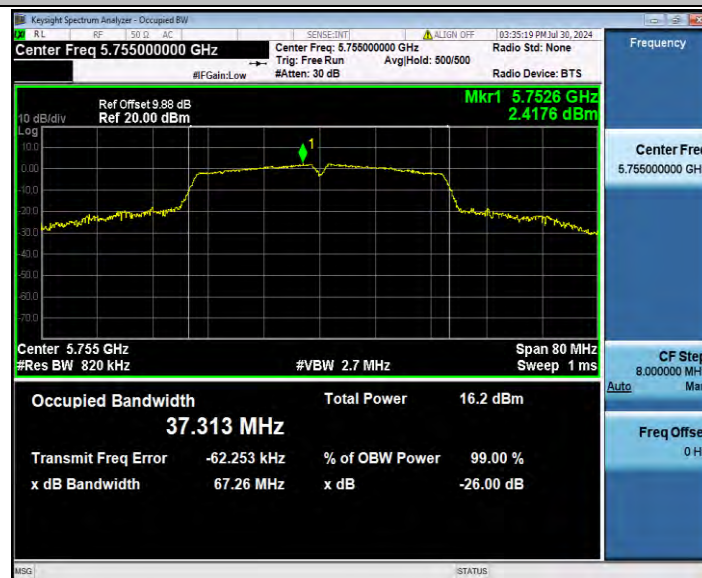
11N20SISO_Ant1_5785



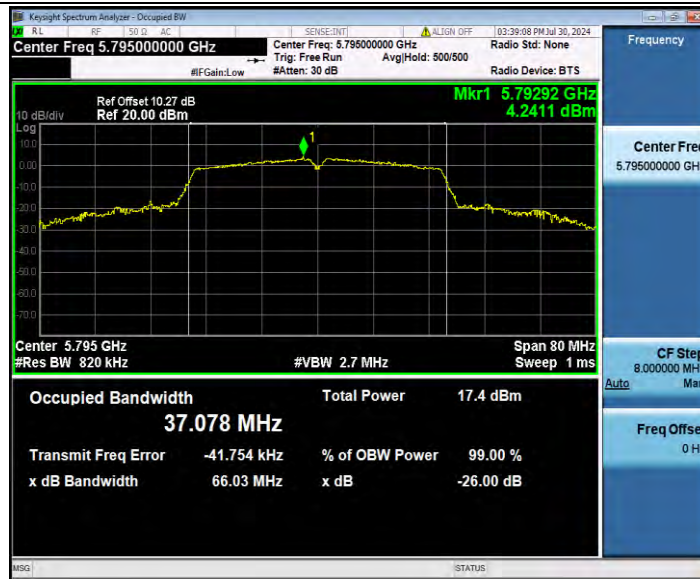
11N20SISO_Ant1_5825



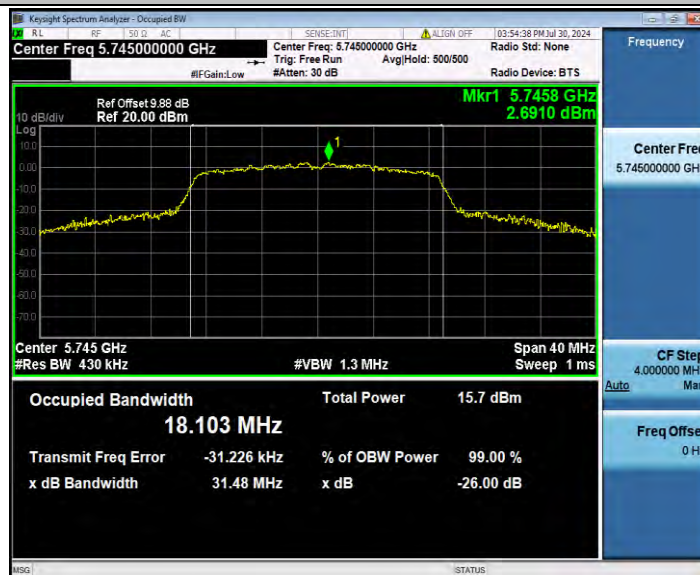
11N40SISO_Ant1_5755



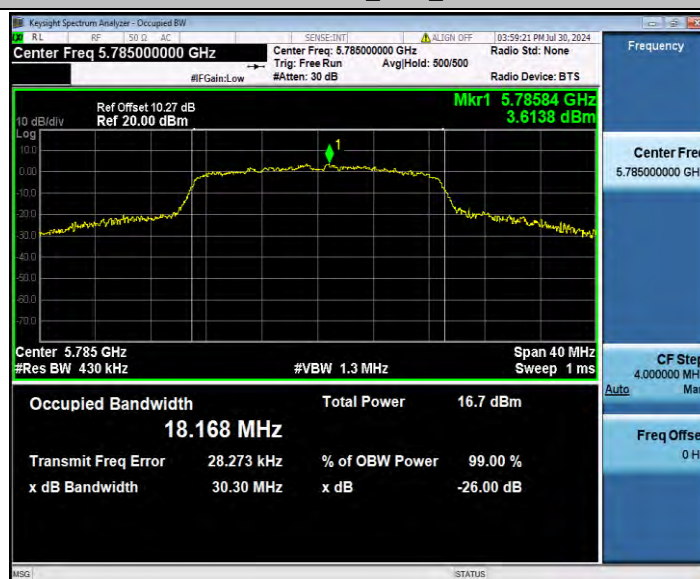
11N40SISO_Ant1_5795



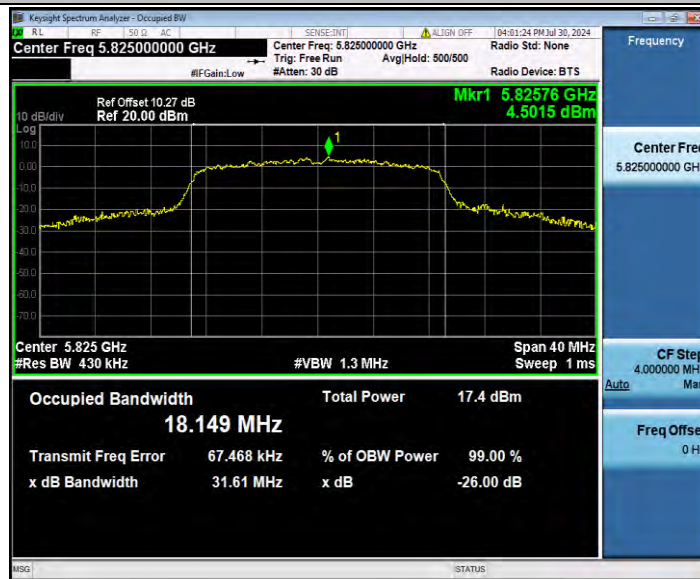
11AC20SISO_Ant1_5745



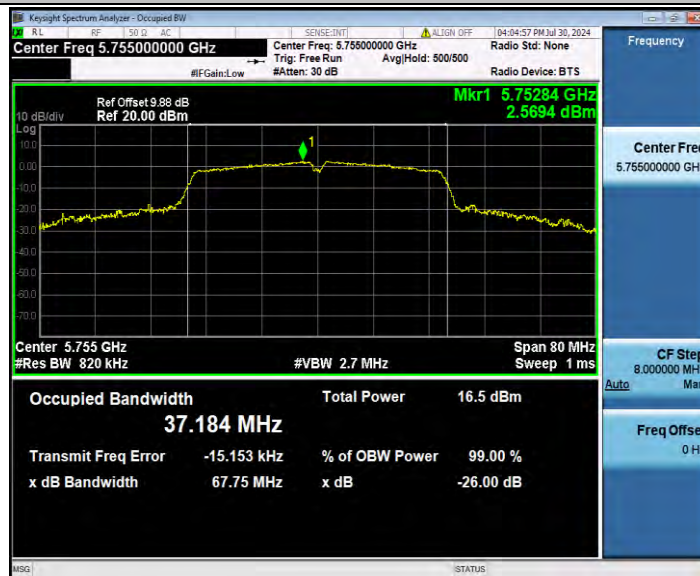
11AC20SISO_Ant1_5785



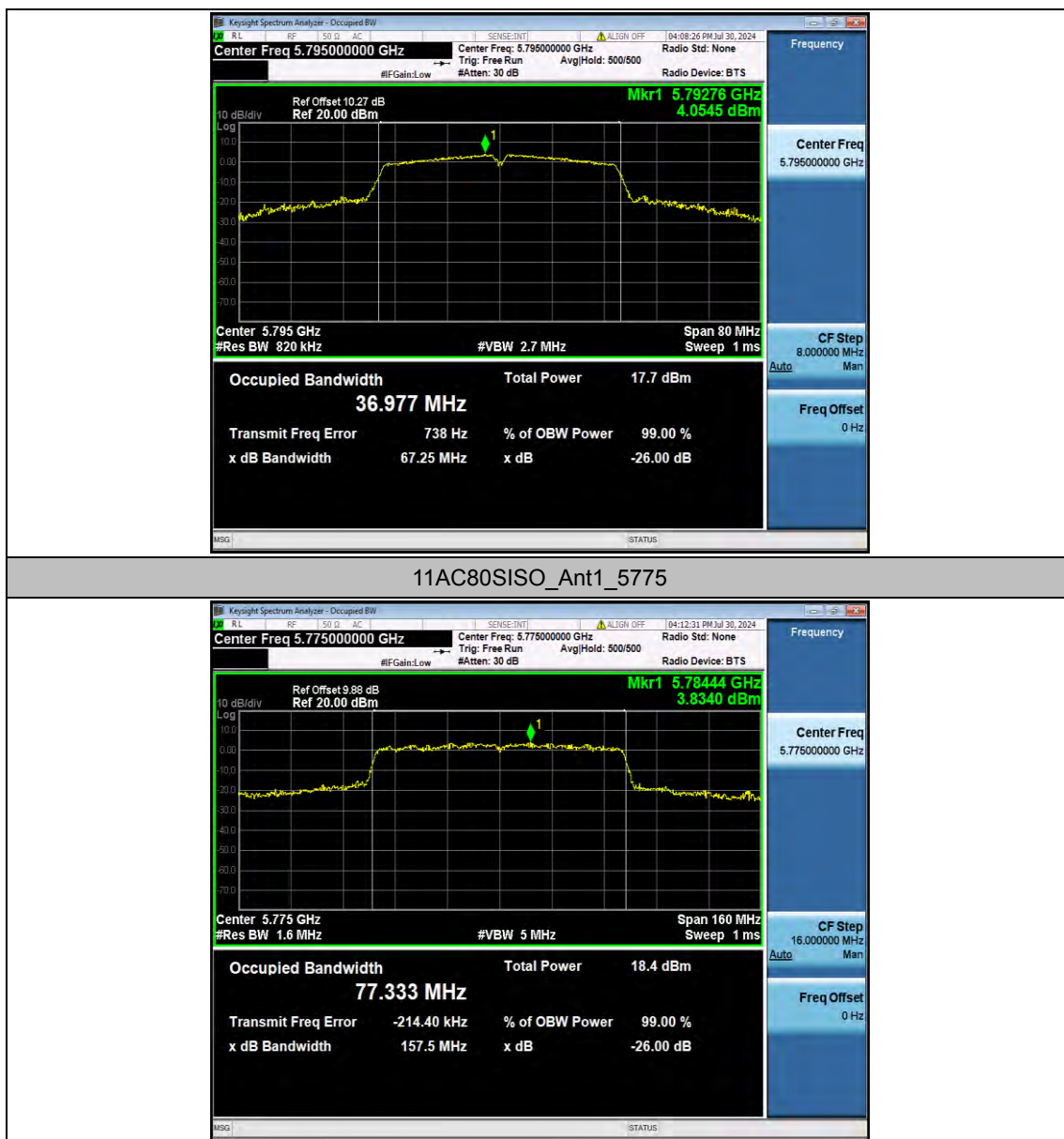
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

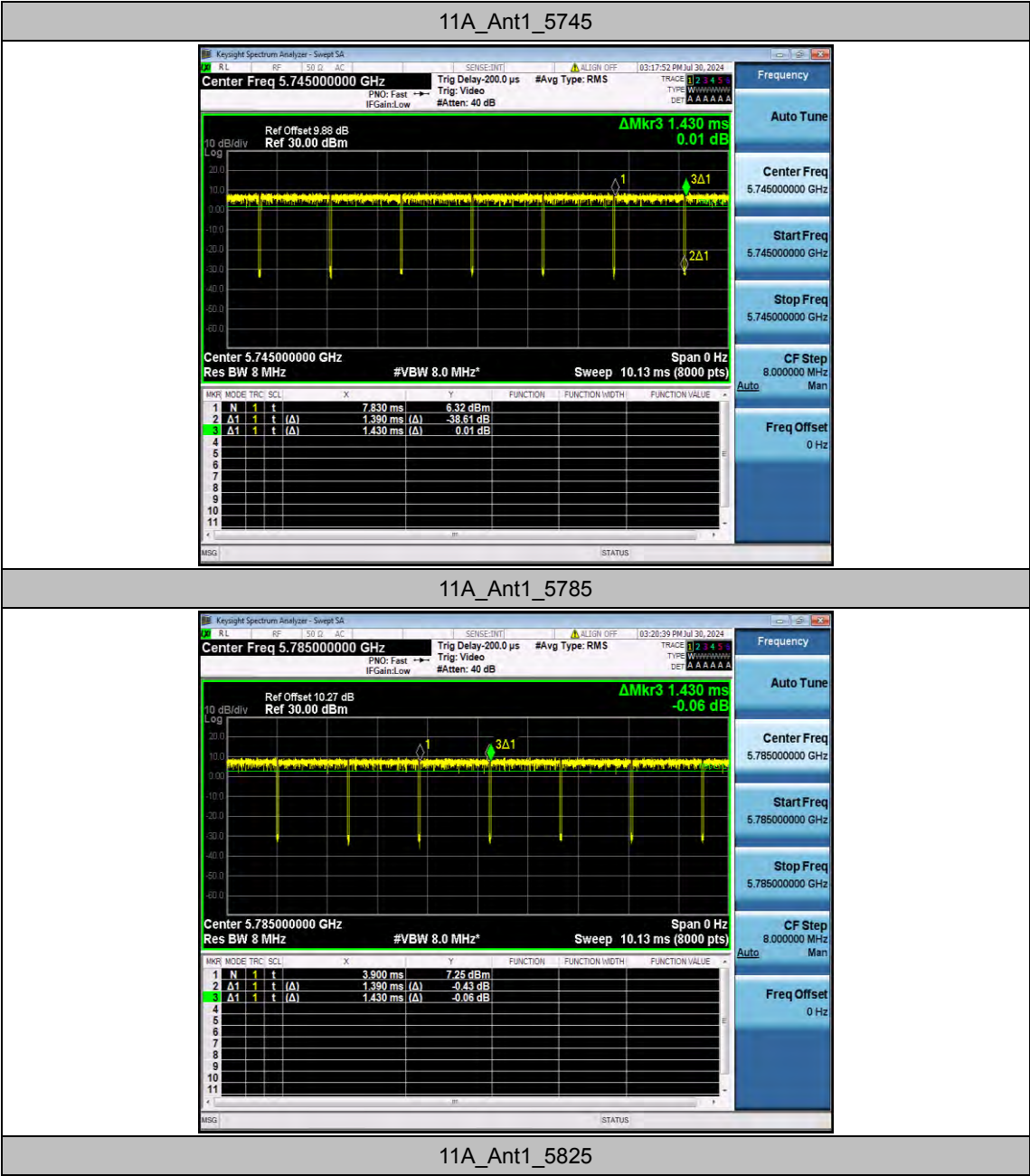


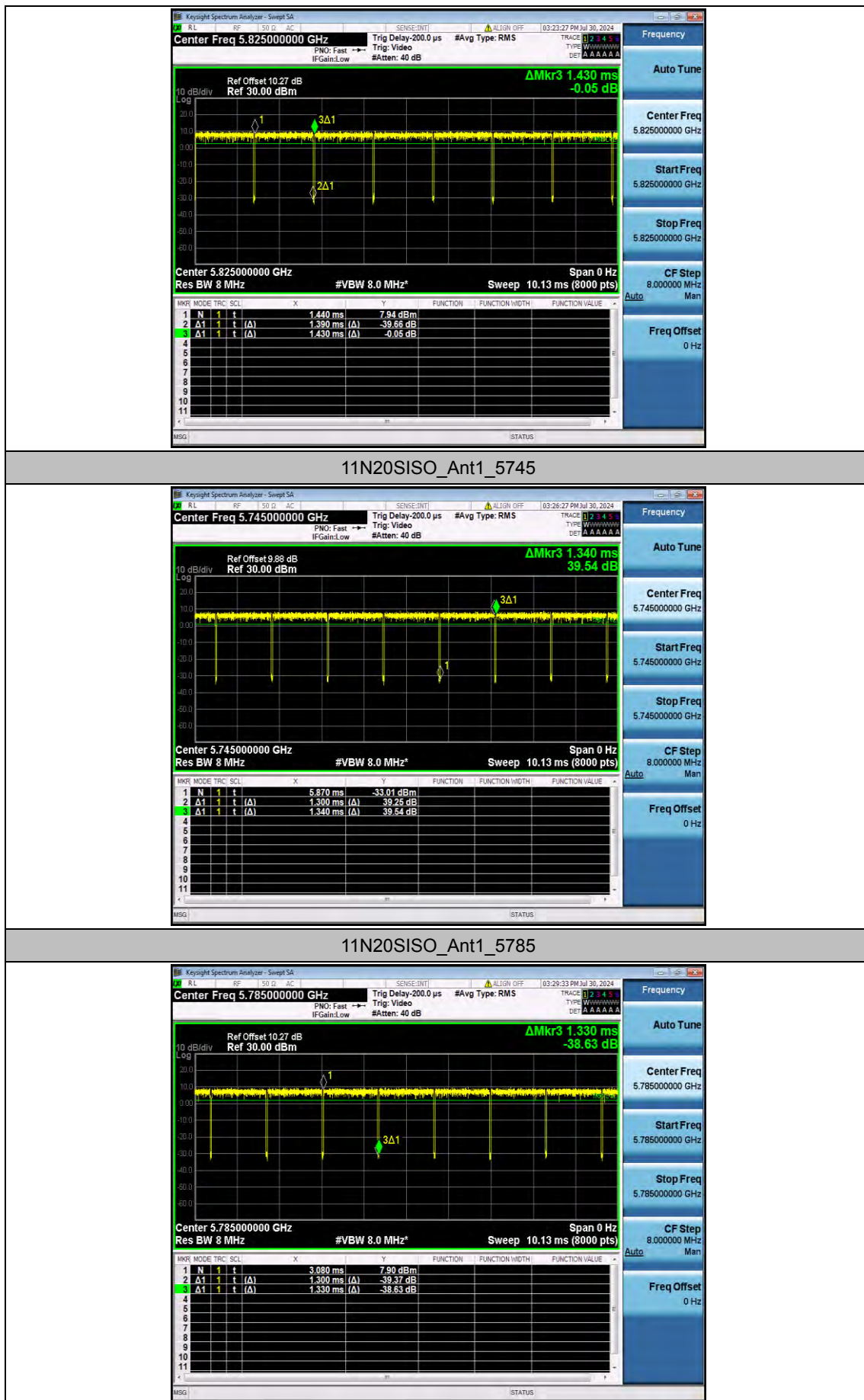
Appendix G.3: Duty Cycle

Test Result

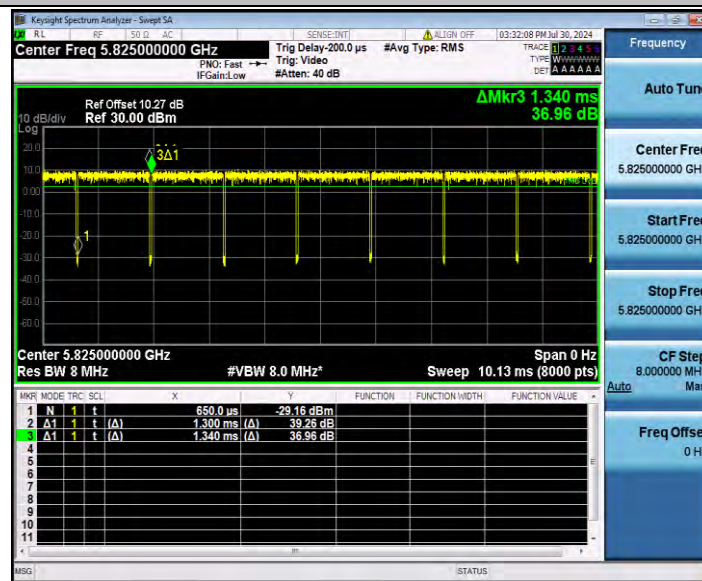
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	1.39	1.43	97.20	0.12	0.72
		5785	1.39	1.43	97.20	0.12	0.72
		5825	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5745	1.30	1.34	97.01	0.13	0.77
		5785	1.30	1.33	97.74	0.10	0.77
		5825	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5755	0.65	0.68	95.59	0.20	1.54
		5795	0.64	0.68	94.12	0.26	1.56
11AC20SISO	Ant1	5745	1.31	1.34	97.76	0.10	0.76
		5785	1.31	1.34	97.76	0.10	0.76
		5825	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.69	94.20	0.26	1.54
11AC80SISO	Ant1	5775	0.33	0.36	91.67	0.38	3.03

Test Graphs

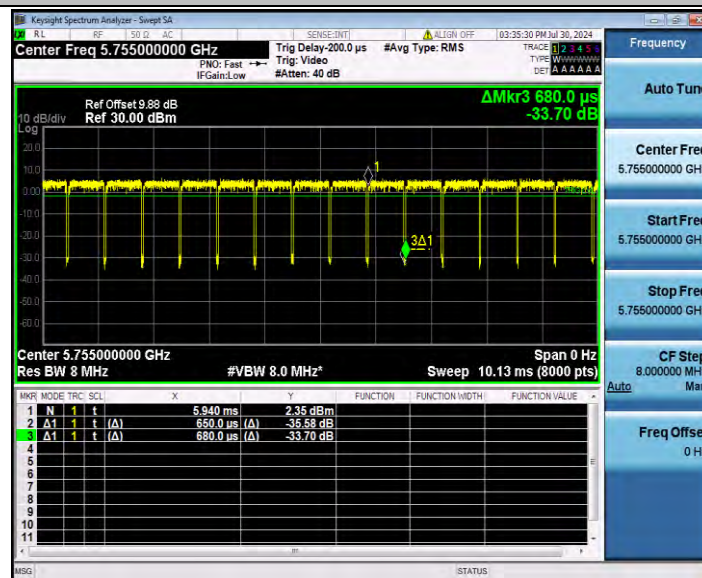




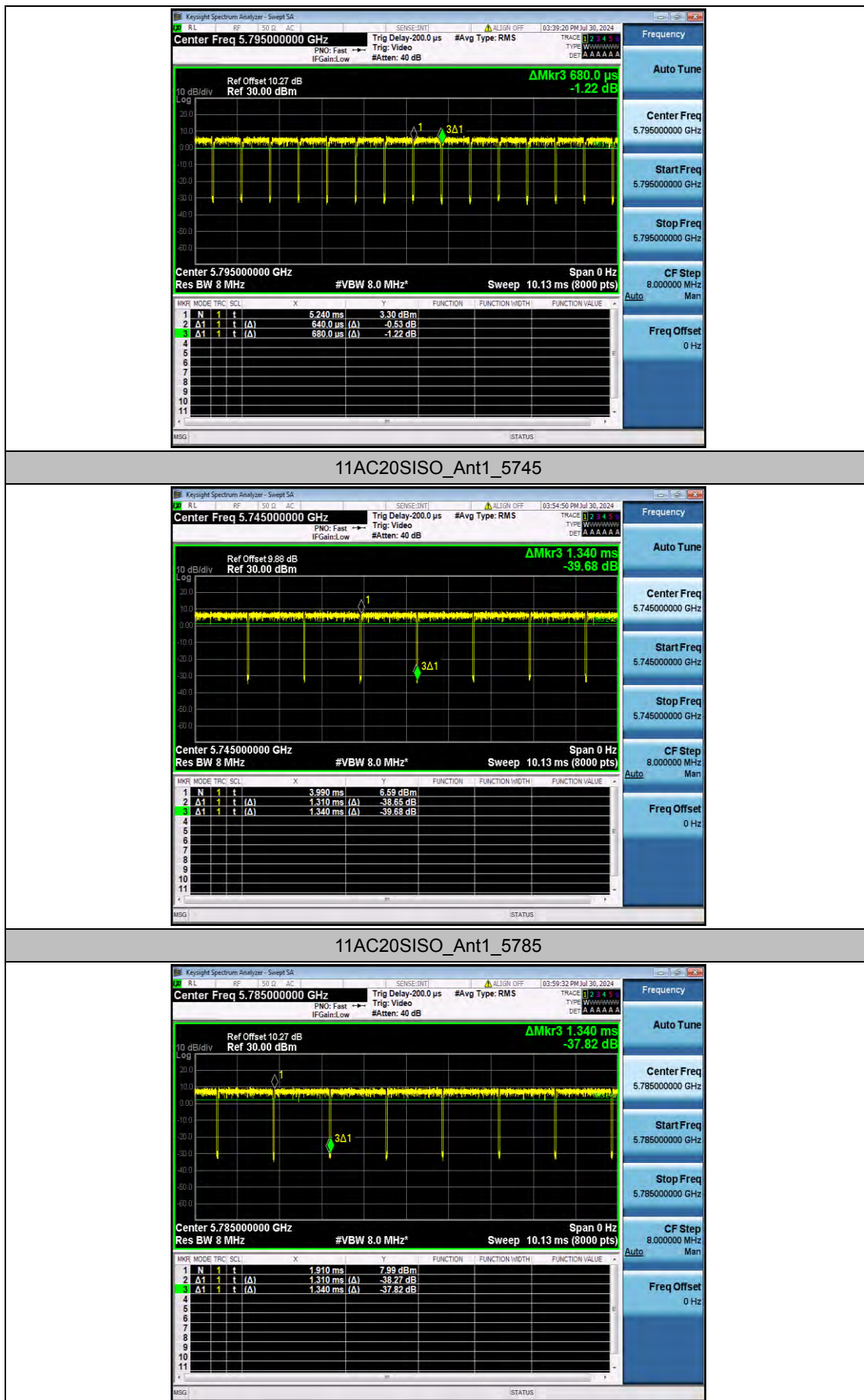
11N20SISO_Ant1_5825



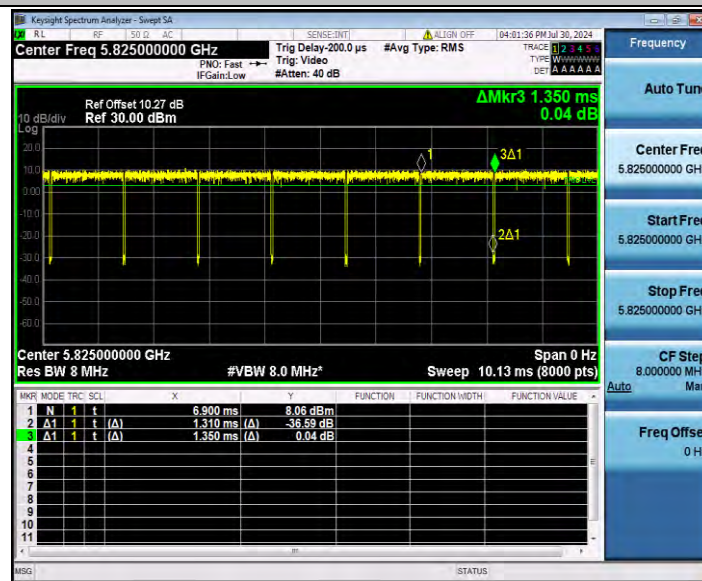
11N40SISO_Ant1_5755



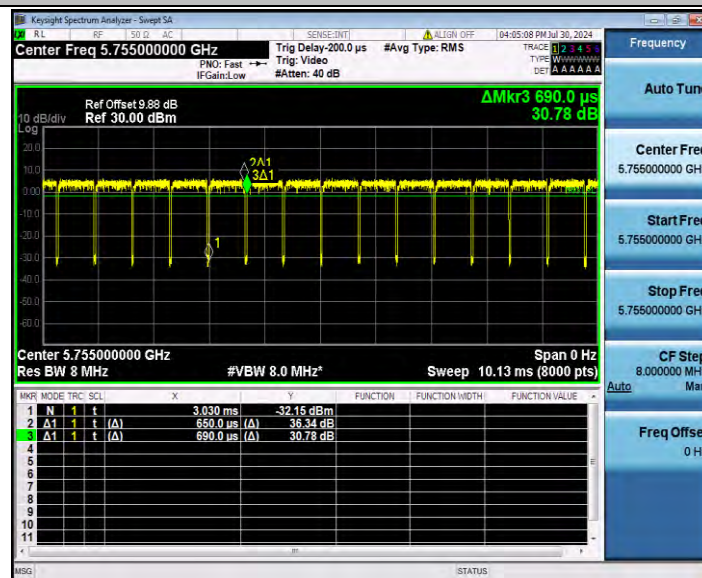
11N40SISO_Ant1_5795



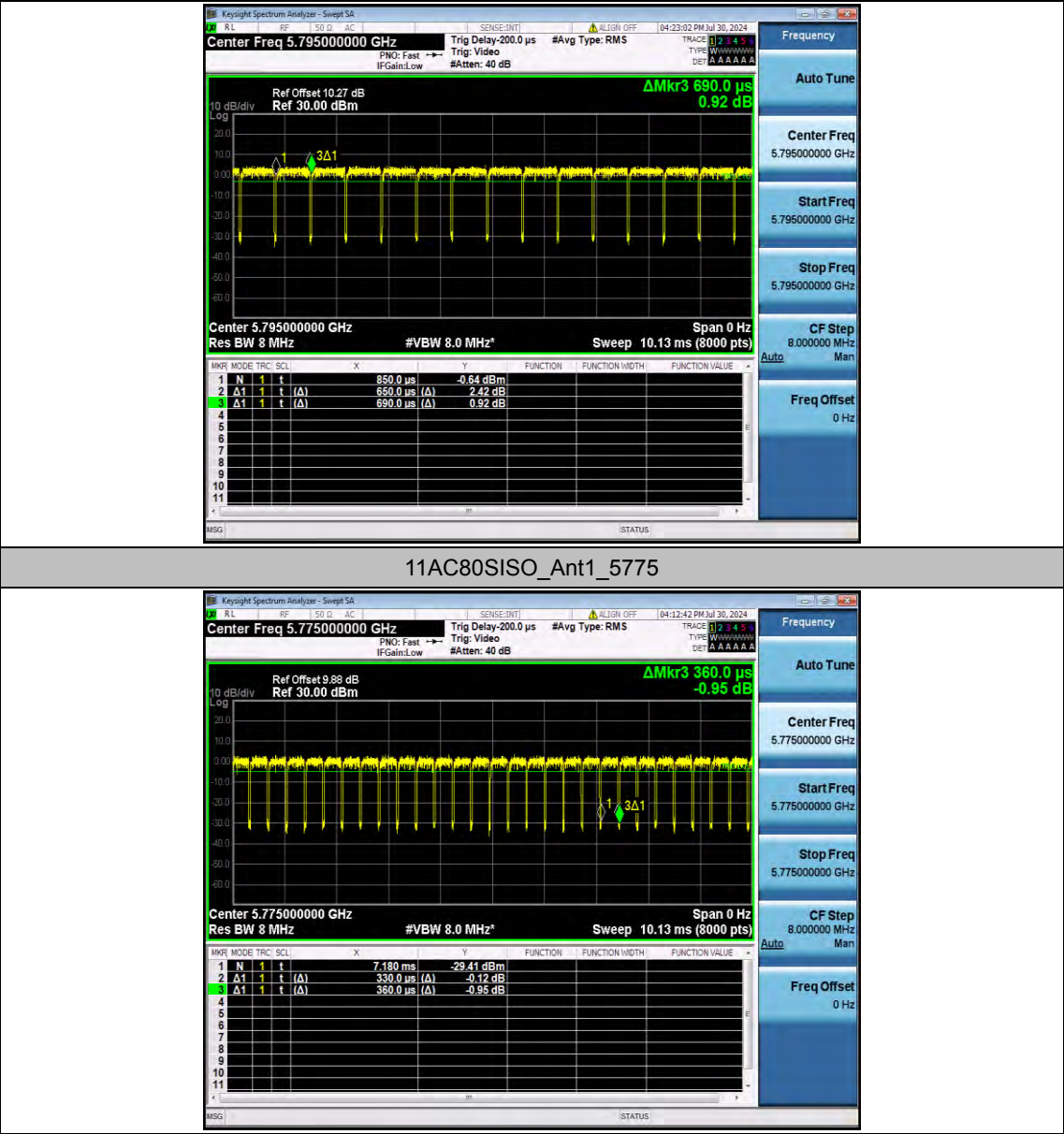
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix G.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	9.06	97.20	0.12	9.18	≤30.00	PASS
		5785	9.98	97.20	0.12	10.10	≤30.00	PASS
		5825	10.15	97.20	0.12	10.27	≤30.00	PASS
11N20SISO	Ant1	5745	8.61	97.01	0.13	8.74	≤30.00	PASS
		5785	9.64	97.74	0.10	9.74	≤30.00	PASS
		5825	10.03	97.01	0.13	10.16	≤30.00	PASS
11N40SISO	Ant1	5755	8.82	95.59	0.20	9.02	≤30.00	PASS
		5795	9.85	94.12	0.26	10.11	≤30.00	PASS
11AC20SISO	Ant1	5745	9.05	97.76	0.10	9.15	≤30.00	PASS
		5785	9.91	97.76	0.10	10.01	≤30.00	PASS
		5825	10.12	97.04	0.13	10.25	≤30.00	PASS
11AC40SISO	Ant1	5755	9.05	94.20	0.26	9.31	≤30.00	PASS
		5795	7.20	94.20	0.26	7.46	≤30.00	PASS
11AC80SISO	Ant1	5775	9.07	91.67	0.38	9.45	≤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.

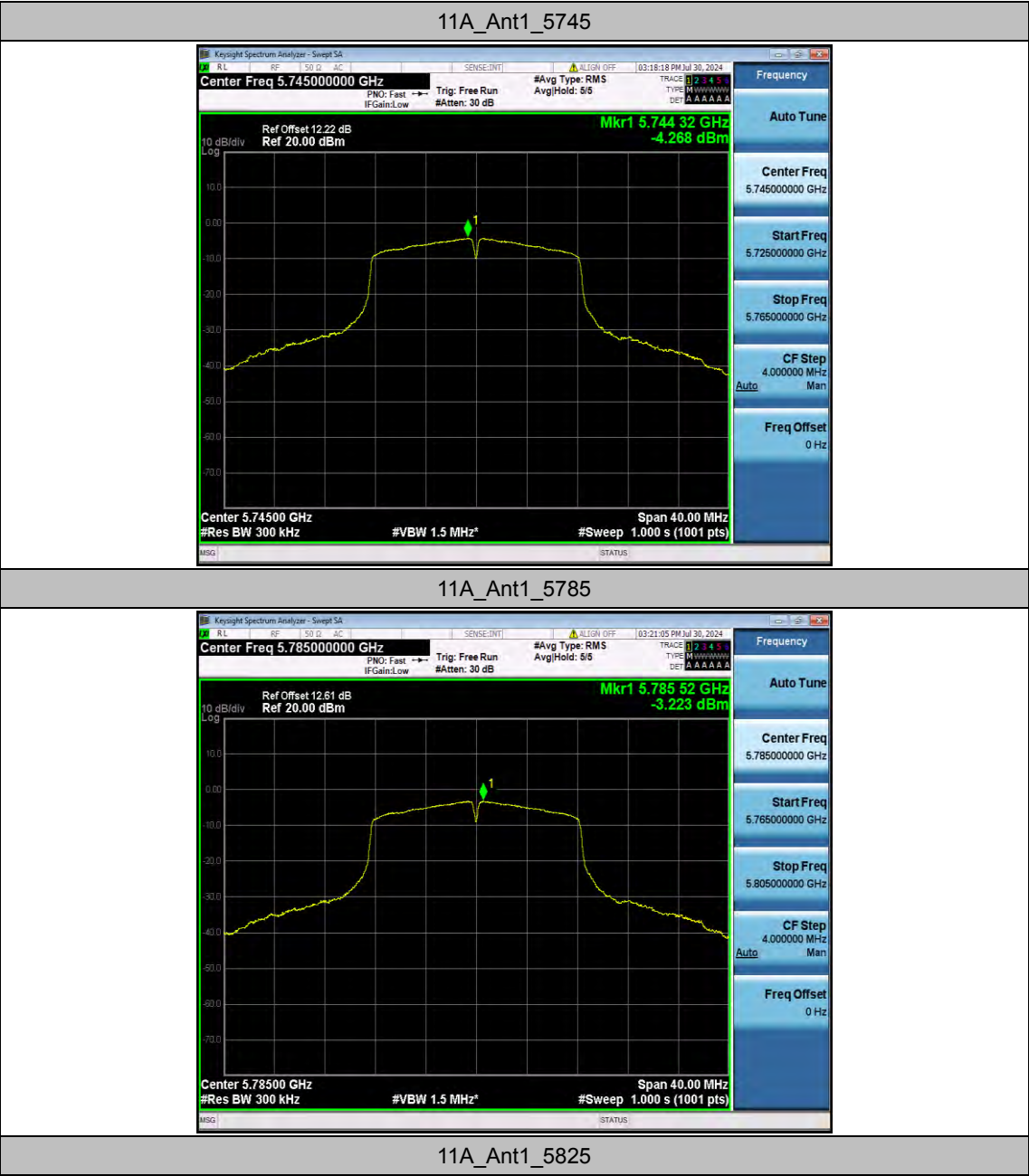
Appendix G.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-4.27	≤30.00	PASS
		5785	-3.22	≤30.00	PASS
		5825	-2.65	≤30.00	PASS
11N20SISO	Ant1	5745	-4.67	≤30.00	PASS
		5785	-3.64	≤30.00	PASS
		5825	-3.15	≤30.00	PASS
11N40SISO	Ant1	5755	-7.31	≤30.00	PASS
		5795	-5.94	≤30.00	PASS
11AC20SISO	Ant1	5745	-4.38	≤30.00	PASS
		5785	-3.17	≤30.00	PASS
		5825	-2.95	≤30.00	PASS
11AC40SISO	Ant1	5755	-6.97	≤30.00	PASS
		5795	-8.69	≤30.00	PASS
11AC80SISO	Ant1	5775	-10.26	≤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





11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



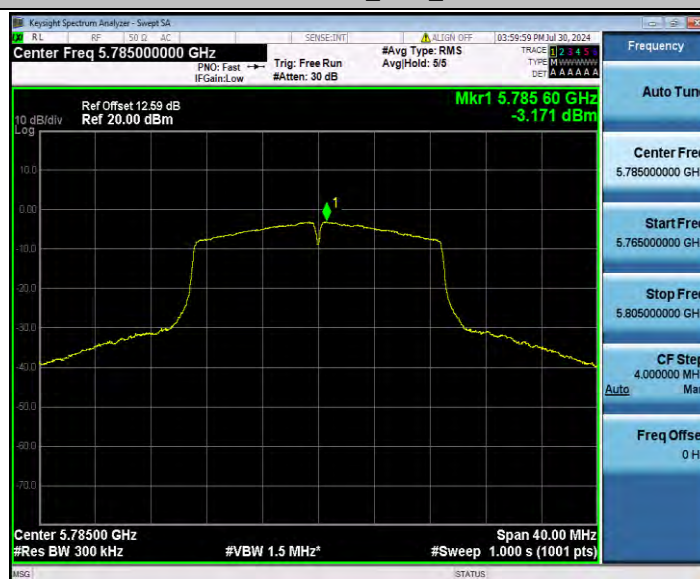
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



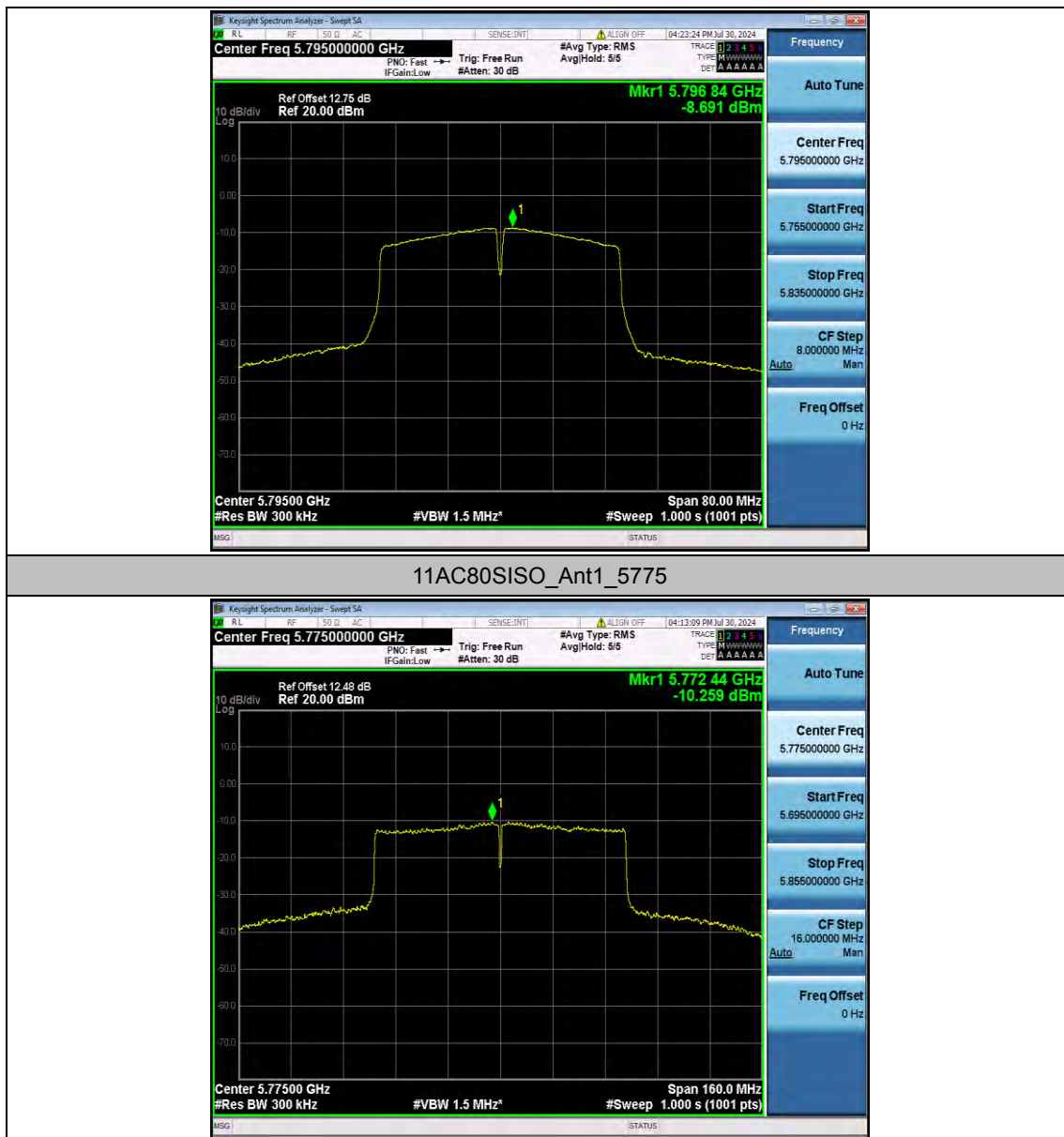
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix G.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	-39.91	≤-26.36	PASS
				5700~5720	-37.36	≤10.02	PASS
				5720~5725	-28.44	≤19.75	PASS
				5760~5650	-39.94	≤-27	PASS
		High	5825	5850~5855	-34.02	≤16.03	PASS
				5855~5875	-34.35	≤13.12	PASS
				5875~5925	-38.69	≤-26.71	PASS
				5925~5935	-36.81	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.1	≤-26.87	PASS
				5700~5720	-27.95	≤15.50	PASS
				5720~5725	-28.29	≤17.65	PASS
				5760~5650	-40.22	≤-27	PASS
		High	5825	5850~5855	-31.34	≤16.03	PASS
				5855~5875	-33.94	≤13.46	PASS
				5875~5925	-38.25	≤-26.91	PASS
				5925~5935	-38.57	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-38.43	≤-25.51	PASS
				5700~5720	-23.98	≤15.01	PASS
				5720~5725	-22.88	≤16.35	PASS
				5780~5650	-39.25	≤-27	PASS
		High	5795	5850~5855	-35.18	≤16.41	PASS
				5855~5875	-36.39	≤11.03	PASS
				5875~5925	-39.11	≤-26.71	PASS
				5925~5935	-38.53	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-39.96	≤-26.96	PASS
				5700~5720	-36.17	≤10.67	PASS
				5720~5725	-26.4	≤20.27	PASS
				5760~5650	-38.71	≤-27	PASS
		High	5825	5850~5855	-33.09	≤15.73	PASS
				5855~5875	-35.39	≤11.12	PASS
				5875~5925	-40.17	≤-26.91	PASS
				5925~5935	-37.68	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-38.79	≤-26.80	PASS
				5700~5720	-22.05	≤15.50	PASS
				5720~5725	-21.84	≤17.28	PASS
				5780~5650	-38.58	≤-27	PASS

		High	5795	5850~5855	-39.27	≤ 15.66	PASS
				5855~5875	-37.97	≤ 10.57	PASS
				5875~5925	-38.34	≤ -26.10	PASS
				5925~5935	-39.1	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-33.65	≤ -26.00	PASS
				5700~5720	-21.72	≤ 11.87	PASS
				5720~5725	-20.31	≤ 16.00	PASS
				5800~5650	-33.2	≤ -27	PASS
		High	5775	5850~5855	-26.44	≤ 16.26	PASS
				5855~5875	-28.4	≤ 11.74	PASS
				5875~5925	-38.17	≤ -26.32	PASS
				5925~5935	-37.97	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



Appendix G.7: Conducted Spurious Emission

Test Result

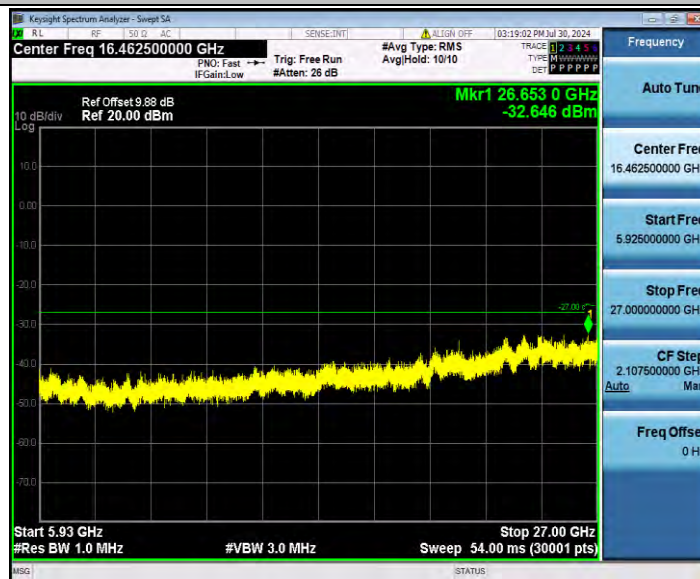
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5525.99	-40.19	≤-27	PASS
			5925~27000	26652.97	-32.65	≤-27	PASS
		5785	30~5650	5473.72	-39.63	≤-27	PASS
			5925~27000	24310.13	-31.76	≤-27	PASS
		5825	30~5650	907.09	-36.85	≤-27	PASS
			5925~27000	25557.77	-30.54	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5459.86	-39.48	≤-27	PASS
			5925~27000	26125.39	-32.43	≤-27	PASS
		5785	30~5650	4760.54	-40.19	≤-27	PASS
			5925~27000	26705.65	-32.15	≤-27	PASS
		5825	30~5650	5518.3	-40.12	≤-27	PASS
			5925~27000	23548.62	-30.63	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5429.13	-40.78	≤-27	PASS
			5925~27000	25292.93	-31.7	≤-27	PASS
		5795	30~5650	1759.84	-37.86	≤-27	PASS
			5925~27000	26931.86	-31.42	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5428.2	-40.31	≤-27	PASS
			5925~27000	24912.87	-31.33	≤-27	PASS
		5785	30~5650	5440.37	-40.19	≤-27	PASS
			5925~27000	24159.79	-31.24	≤-27	PASS
		5825	30~5650	825.79	-34.24	≤-27	PASS
			5925~27000	24232.85	-30.87	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	2693.51	-39.95	≤-27	PASS
			5925~27000	26970.5	-31.61	≤-27	PASS
		5795	30~5650	2675.71	-40.06	≤-27	PASS
			5925~27000	24750.6	-31.41	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5643.07	-35.87	≤-27	PASS
			5925~27000	26860.91	-31.71	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



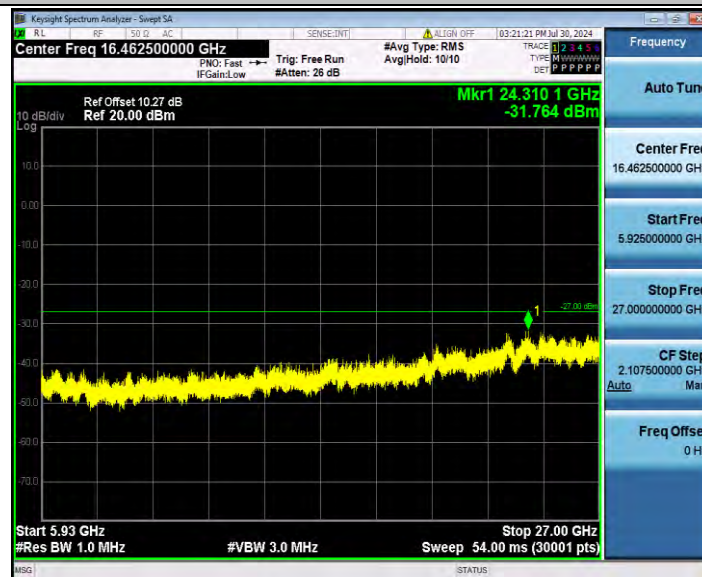
11A_Ant1_5745_5925~27000



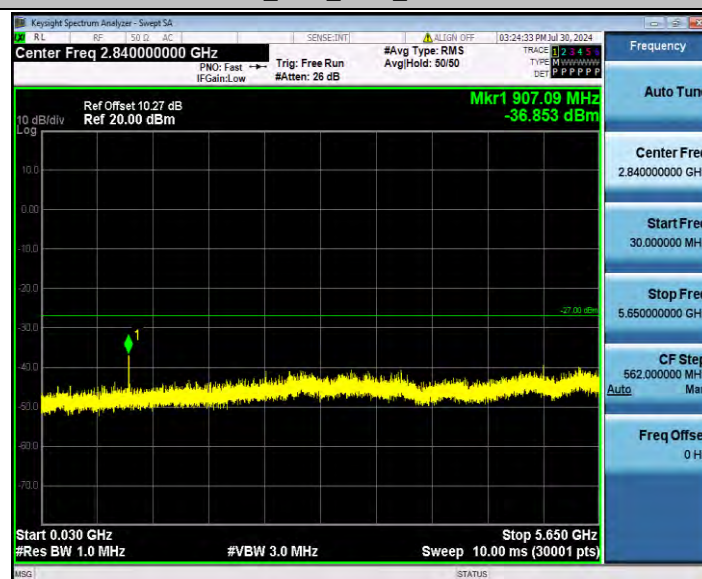
11A_Ant1_5785_30~5650



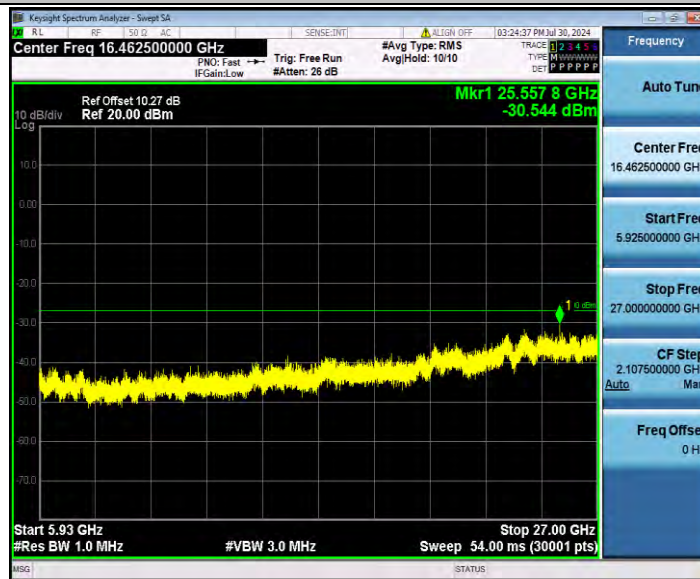
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



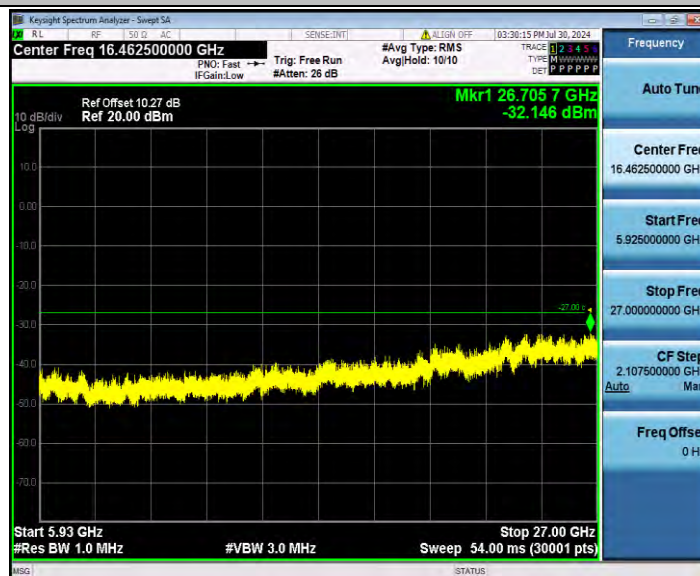
11N20SISO_Ant1_5745_5925~27000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



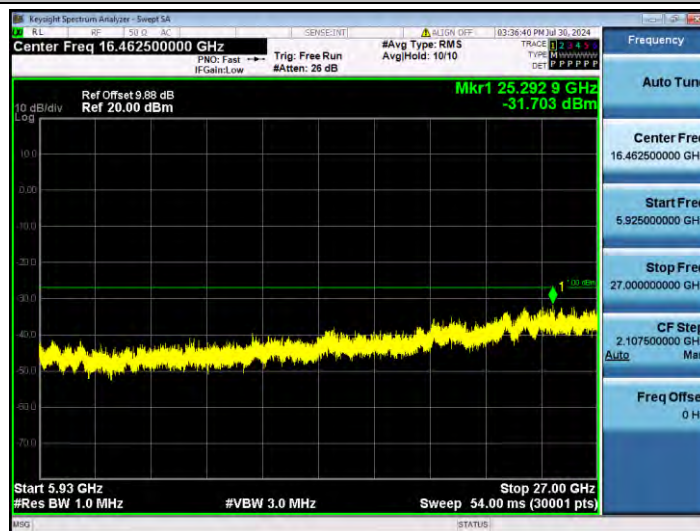
11N20SISO_Ant1_5825_5925~27000



11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~27000



11N40SISO_Ant1_5795_30~5650



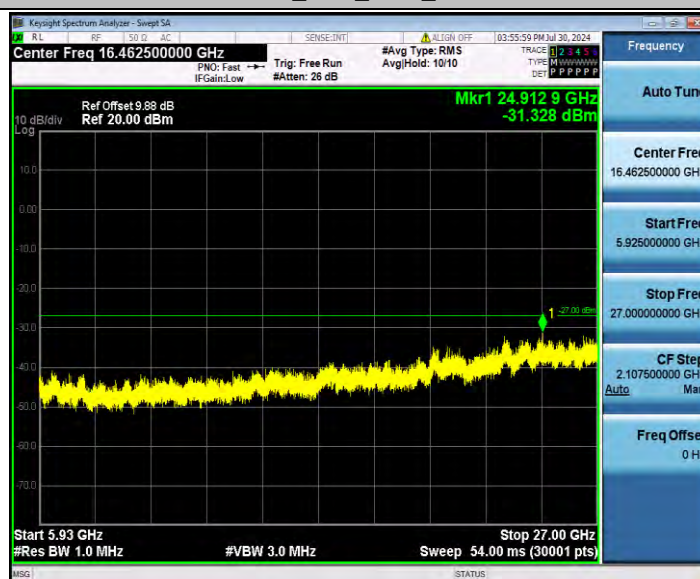
11N40SISO_Ant1_5795_5925~27000



11AC20SISO_Ant1_5745_30~5650



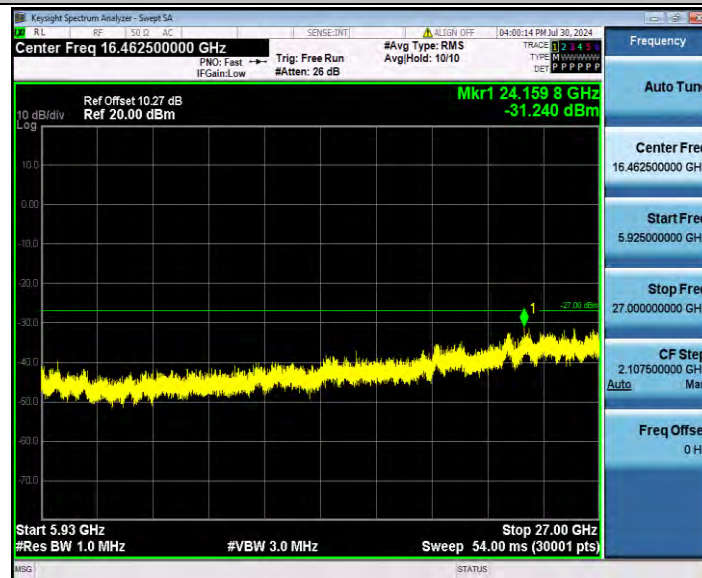
11AC20SISO_Ant1_5745_5925~27000



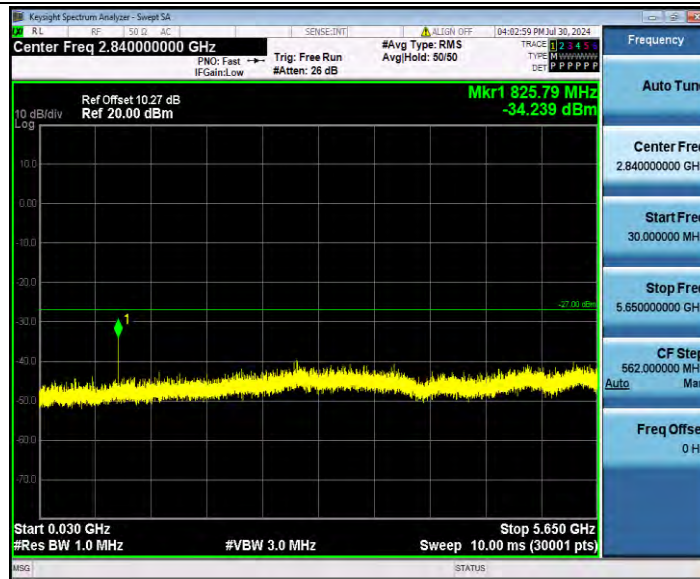
11AC20SISO_Ant1_5785_30~5650



11AC20SISO_Ant1_5785_5925~27000



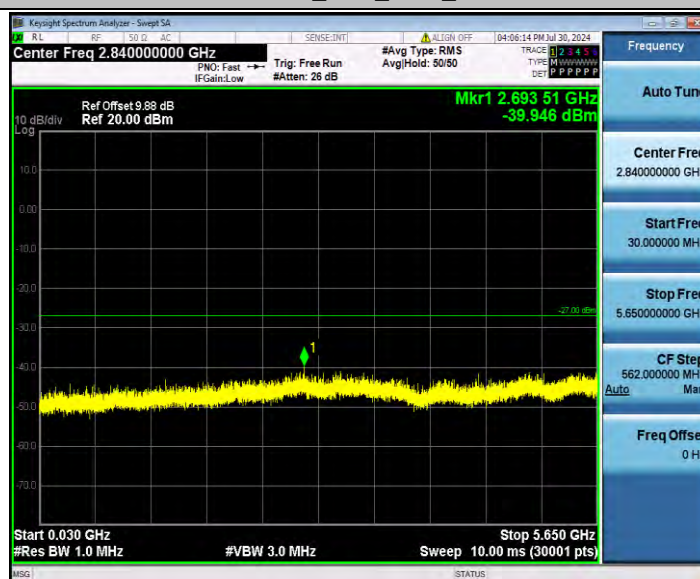
11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~27000



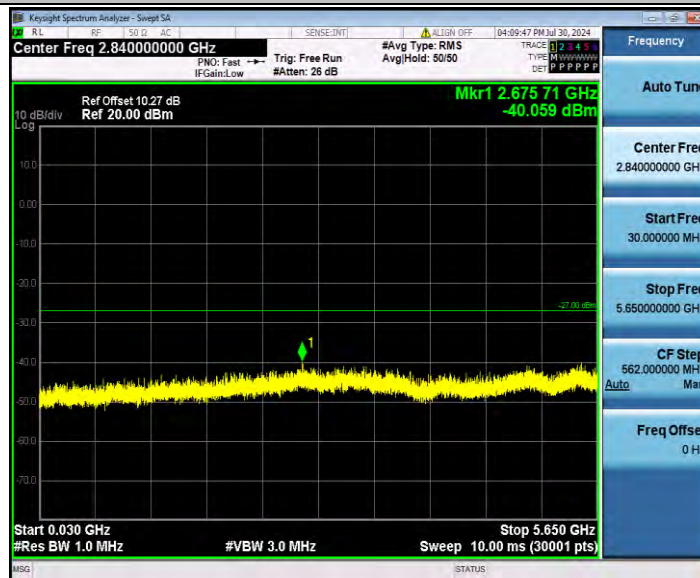
11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5755_5925~27000



11AC40SISO_Ant1_5795_30~5650



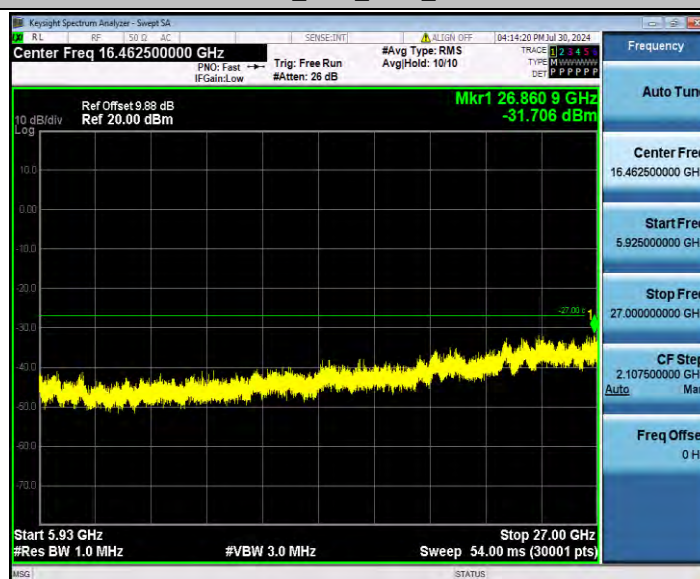
11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix G.8: Emissions in Restricted Bands

Test Result

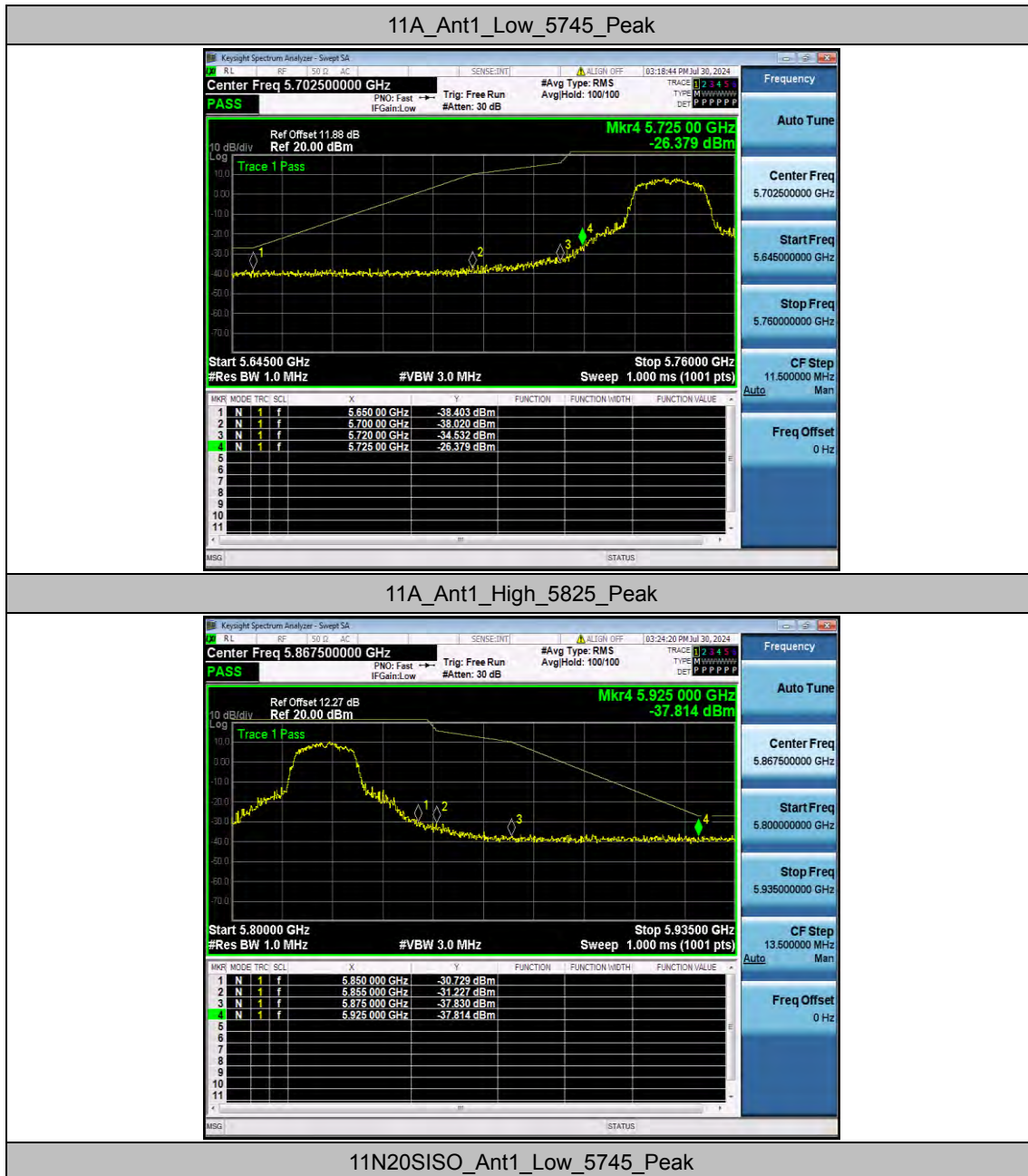
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-38.403	≤-27.00	PASS
				Peak	5700.000	-38.02	≤10.00	PASS
				Peak	5720.000	-34.53	≤15.60	PASS
				Peak	5725.000	-26.38	≤27.00	PASS
		High	5825	Peak	5850.000	-30.729	≤27.00	PASS
				Peak	5855.000	-31.23	≤15.60	PASS
				Peak	5875.000	-37.83	≤10.00	PASS
				Peak	5925.000	-37.81	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.205	≤-27.00	PASS
				Peak	5700.000	-38.92	≤10.00	PASS
				Peak	5720.000	-31.42	≤15.60	PASS
				Peak	5725.000	-25.59	≤27.00	PASS
		High	5825	Peak	5850.000	-30.958	≤27.00	PASS
				Peak	5855.000	-32.6	≤15.60	PASS
				Peak	5875.000	-37.65	≤10.00	PASS
				Peak	5925.000	-37.89	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-39.204	≤-27.00	PASS
				Peak	5700.000	-30.57	≤10.00	PASS
				Peak	5720.000	-24.93	≤15.60	PASS
				Peak	5725.000	-22.07	≤27.00	PASS
		High	5795	Peak	5850.000	-29.794	≤27.00	PASS
				Peak	5855.000	-35.46	≤15.60	PASS
				Peak	5875.000	-36.94	≤10.00	PASS
				Peak	5925.000	-37.41	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-39.009	≤-27.00	PASS
				Peak	5700.000	-37.33	≤10.00	PASS
				Peak	5720.000	-32.87	≤15.60	PASS
				Peak	5725.000	-22.13	≤27.00	PASS
		High	5825	Peak	5850.000	-30.014	≤27.00	PASS

				Peak	5855.000	-33.2	≤15.60	PASS
				Peak	5875.000	-38.64	≤10.00	PASS
				Peak	5925.000	-38.76	≤-27.00	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-39.59	≤-27.00	PASS
				Peak	5700.000	-34.23	≤10.00	PASS
				Peak	5720.000	-22.29	≤15.60	PASS
				Peak	5725.000	-22.6	≤27.00	PASS
		High	5795	Peak	5850.000	-36.92 8	≤27.00	PASS
				Peak	5855.000	-38.23	≤15.60	PASS
				Peak	5875.000	-39.23	≤10.00	PASS
				Peak	5925.000	-38.17	≤-27.00	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-33.18	≤-27.00	PASS
				Peak	5700.000	-25.09	≤10.00	PASS
				Peak	5720.000	-21.35	≤15.60	PASS
				Peak	5725.000	-21.03	≤27.00	PASS
		High	5775	Peak	5850.000	-25.97	≤27.00	PASS
				Peak	5855.000	-26.55	≤15.60	PASS
				Peak	5875.000	-34.4	≤10.00	PASS
				Peak	5925.000	-39.79	≤-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





11N20SISO_Ant1_High_5825_Peak



11N40SISO_Ant1_Low_5755_Peak



11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak



11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



