

Case No. : <u>GTS20240827006-1-04</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.10.15</u>	Test Engineer: <u>Evan ouyang</u>

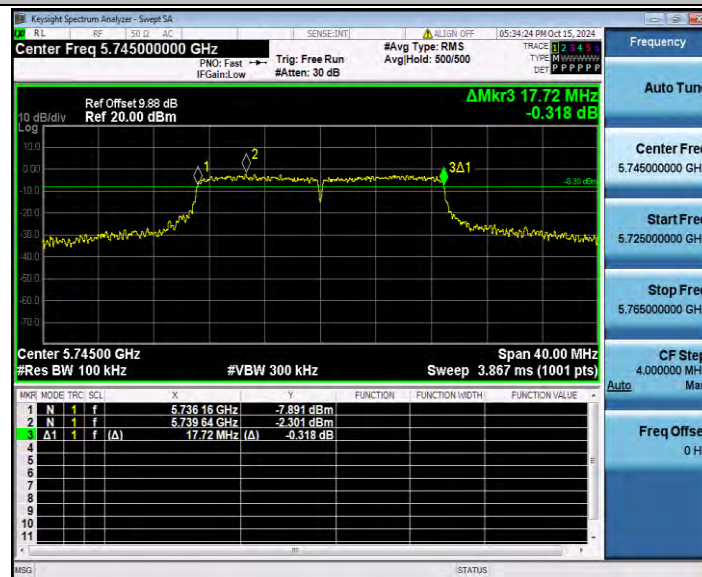
Appendix E.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.560	5736.720	5753.280	0.5	PASS
		5785	16.560	5776.720	5793.280	0.5	PASS
		5825	16.560	5816.720	5833.280	0.5	PASS
11N20SISO	Ant1	5745	17.720	5736.160	5753.880	0.5	PASS
		5785	17.760	5776.120	5793.880	0.5	PASS
		5825	17.720	5816.120	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.720	5736.120	5753.840	0.5	PASS
		5785	17.720	5776.120	5793.840	0.5	PASS
		5825	17.760	5816.120	5833.880	0.5	PASS
11AC40SISO	Ant1	5755	36.400	5736.840	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant1	5775	76.320	5736.920	5813.240	0.5	PASS



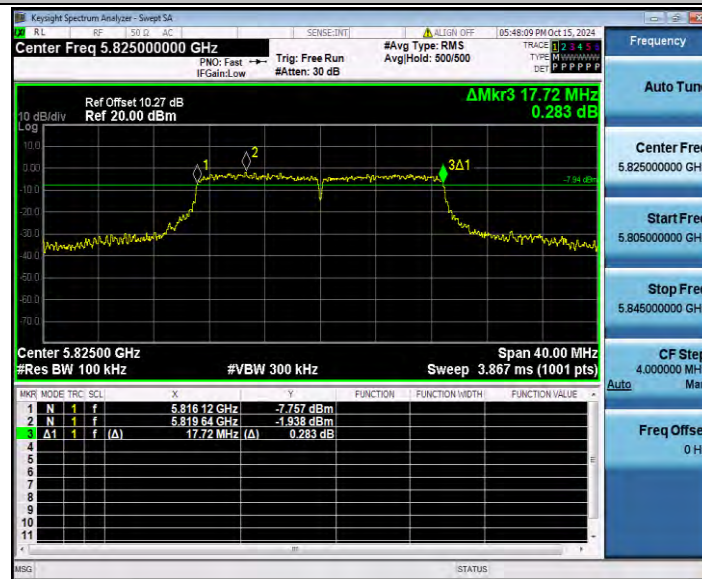
11N20SISO_Ant1_5745



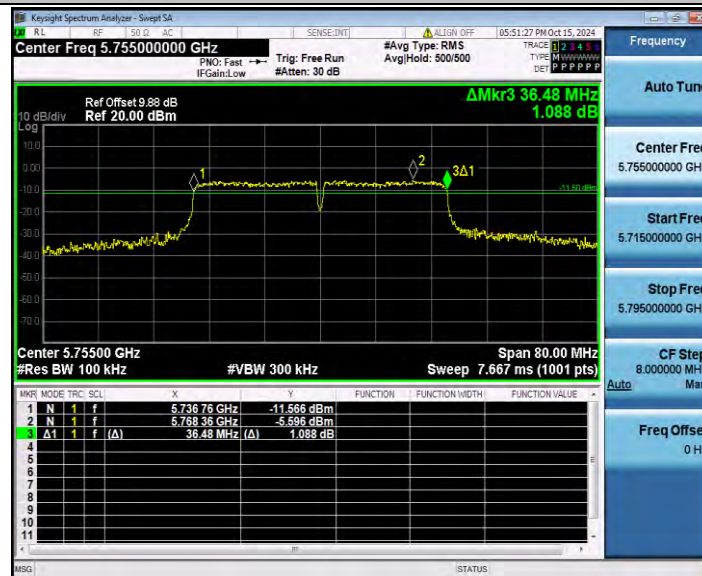
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



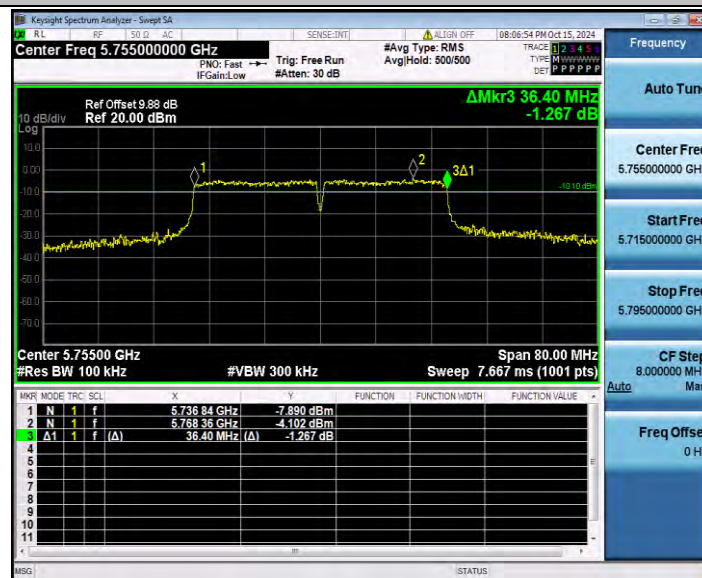
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



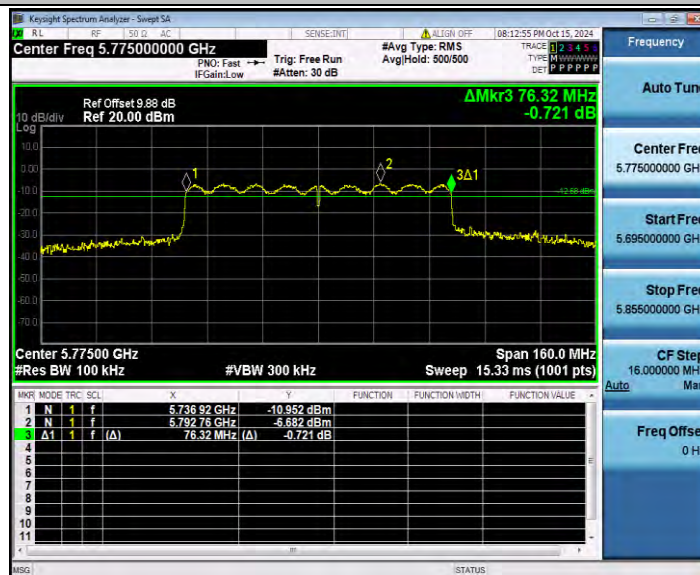
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



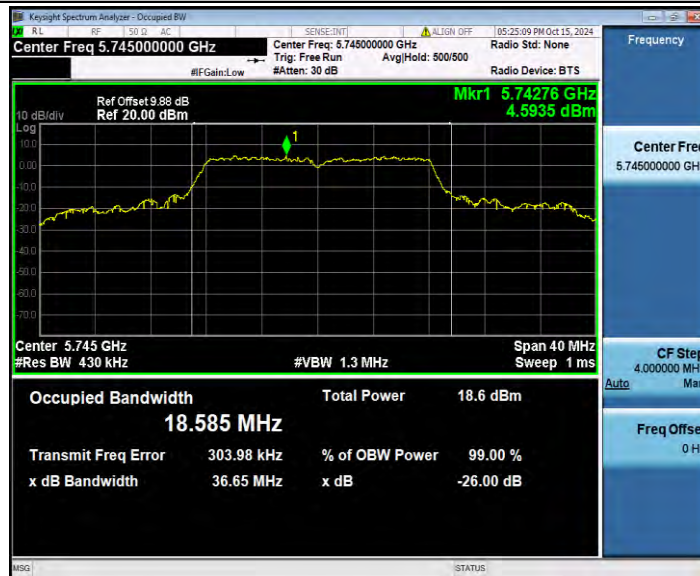
Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	18.585	5736.0115	5754.5965	---	---
		5785	17.436	5776.2418	5793.6778	---	---
		5825	17.340	5816.2312	5833.5712	---	---
11N20SISO	Ant1	5745	18.587	5735.7800	5754.3670	---	---
		5785	18.338	5775.8595	5794.1975	---	---
		5825	18.250	5815.8592	5834.1092	---	---
11N40SISO	Ant1	5755	37.506	5736.4069	5773.9129	---	---
		5795	37.539	5776.3398	5813.8788	---	---
11AC20SISO	Ant1	5745	18.604	5735.7392	5754.3432	---	---
		5785	19.138	5775.5285	5794.6665	---	---
		5825	18.325	5815.8171	5834.1421	---	---
11AC40SISO	Ant1	5755	37.609	5736.3995	5774.0085	---	---
		5795	37.406	5776.4321	5813.8381	---	---
11AC80SISO	Ant1	5775	76.810	5736.8435	5813.6535	---	---

Test Graphs

11A_Ant1_5745



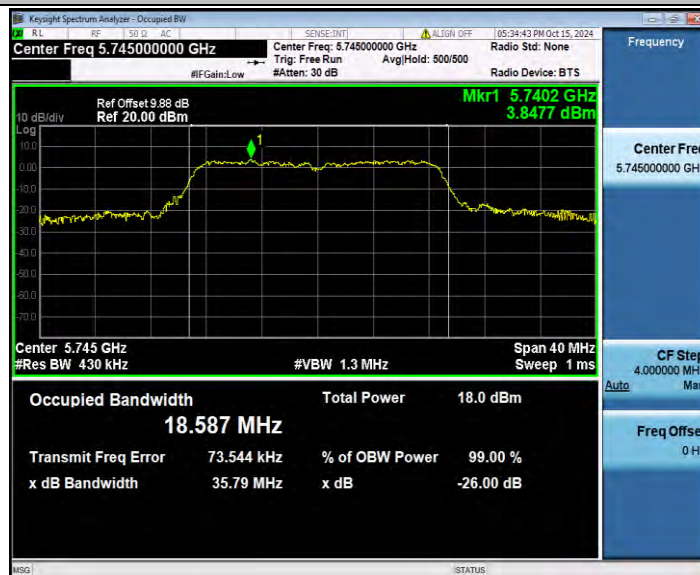
11A_Ant1_5785



11A_Ant1_5825



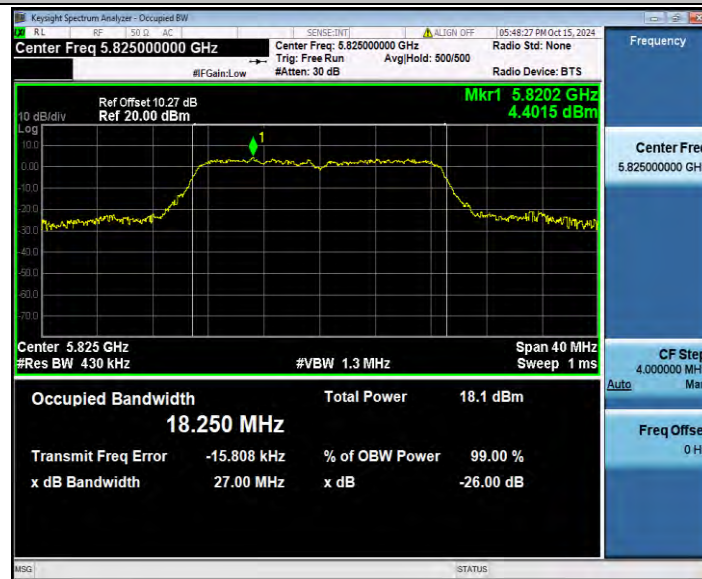
11N20SISO_Ant1_5745



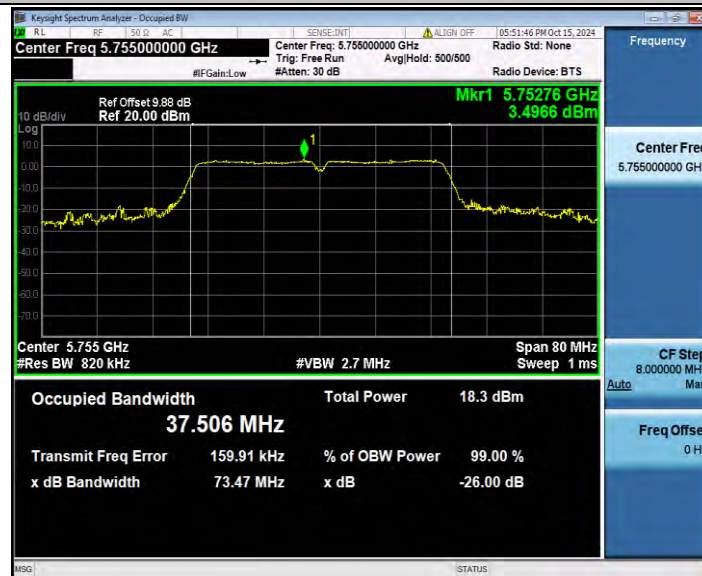
11N20SISO_Ant1_5785



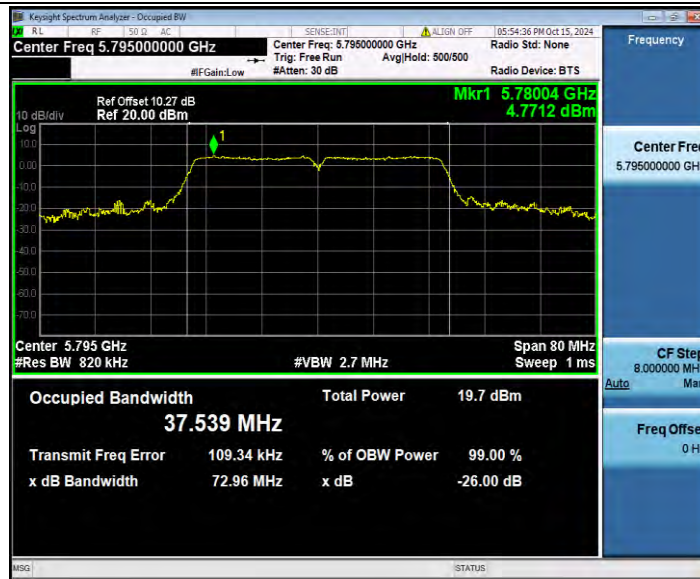
11N20SISO_Ant1_5825



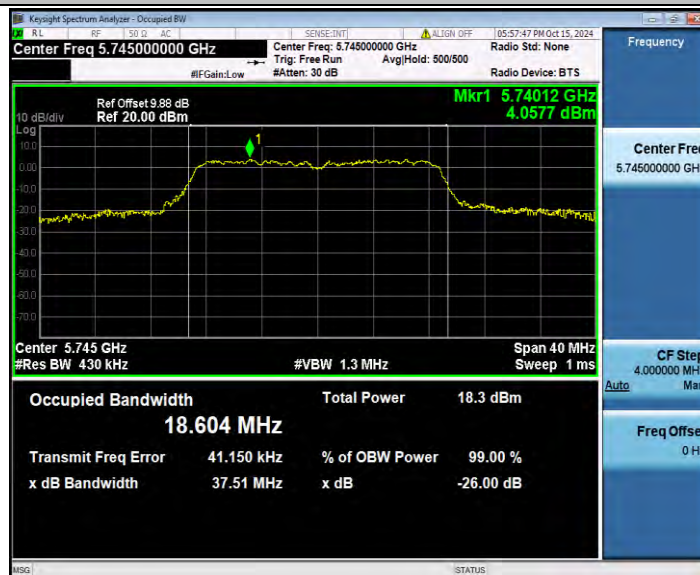
11N40SISO_Ant1_5755



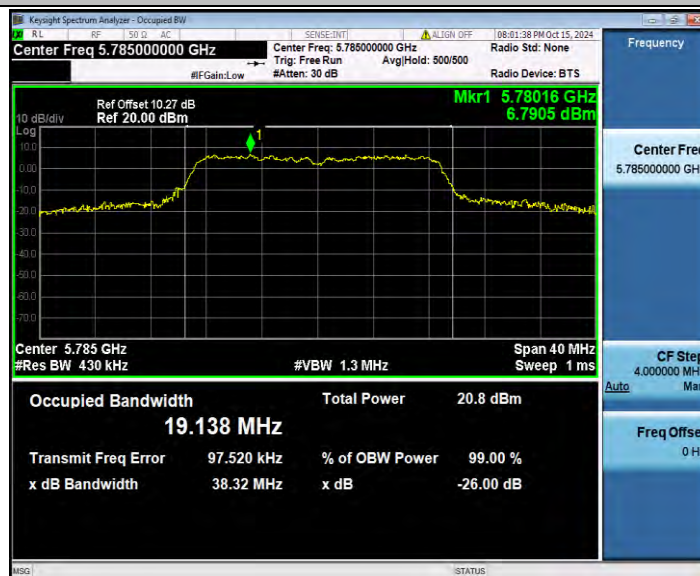
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



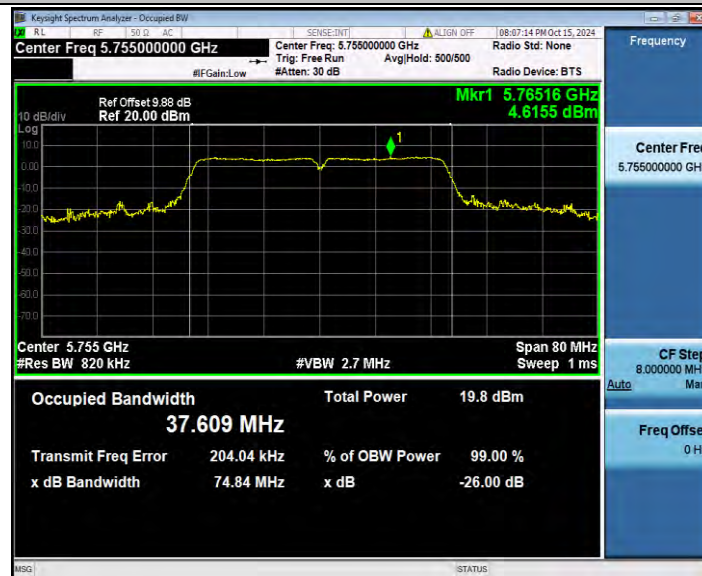
11AC20SISO_Ant1_5785



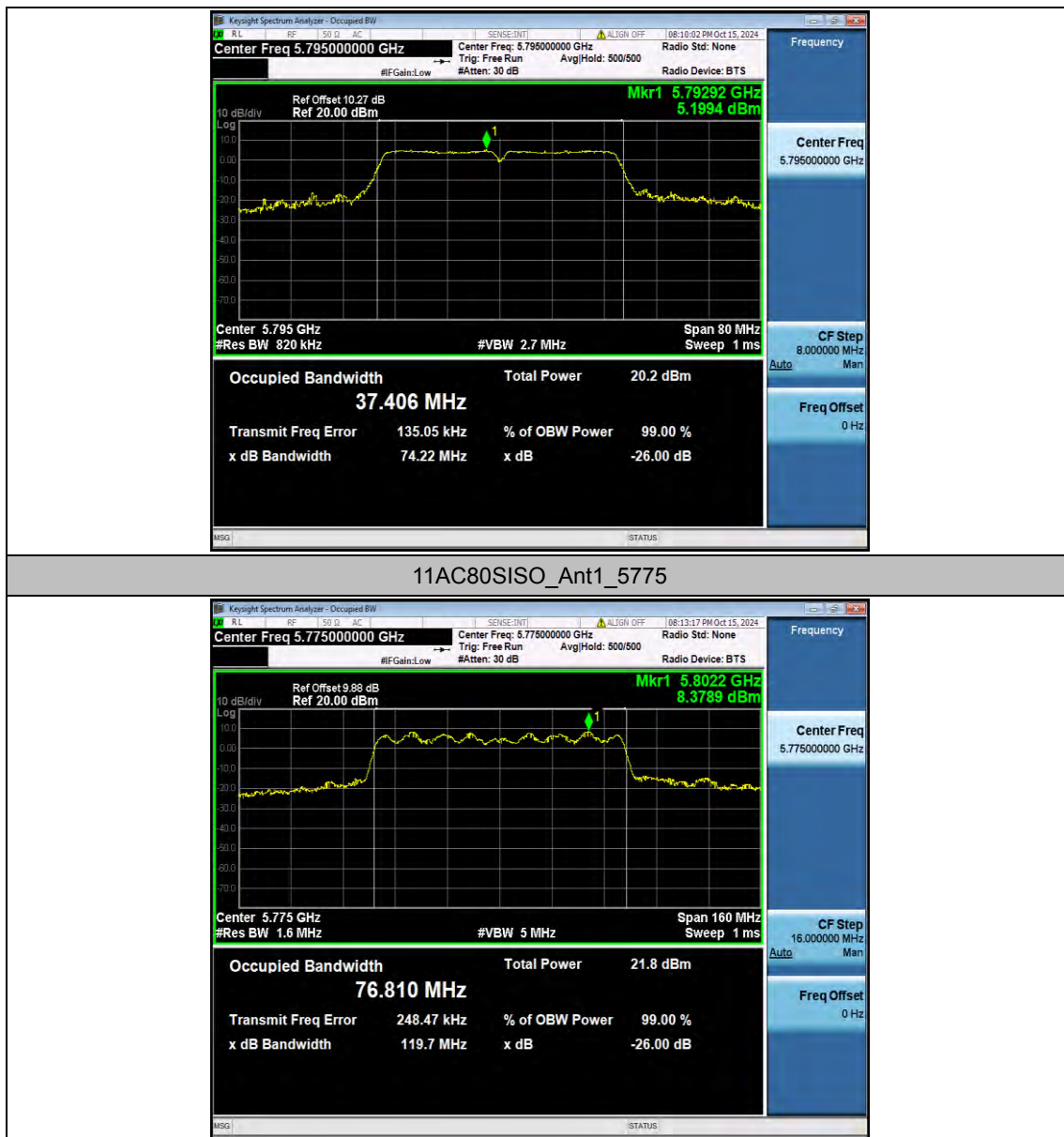
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



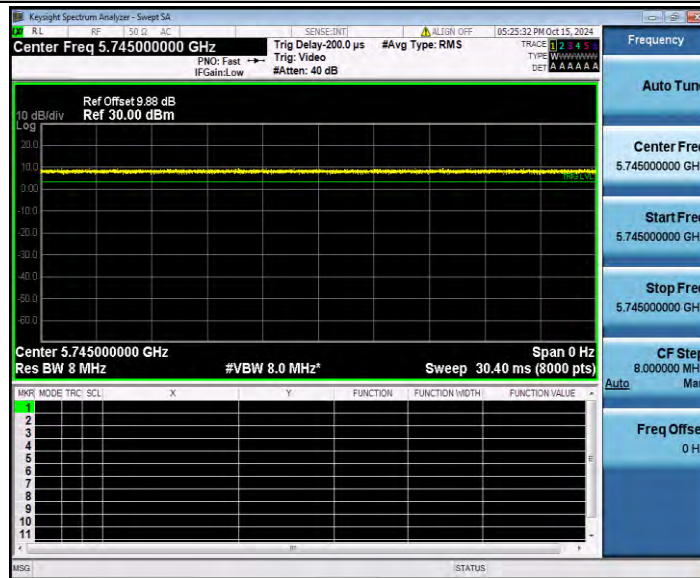
Appendix E.3: Duty Cycle

Test Result

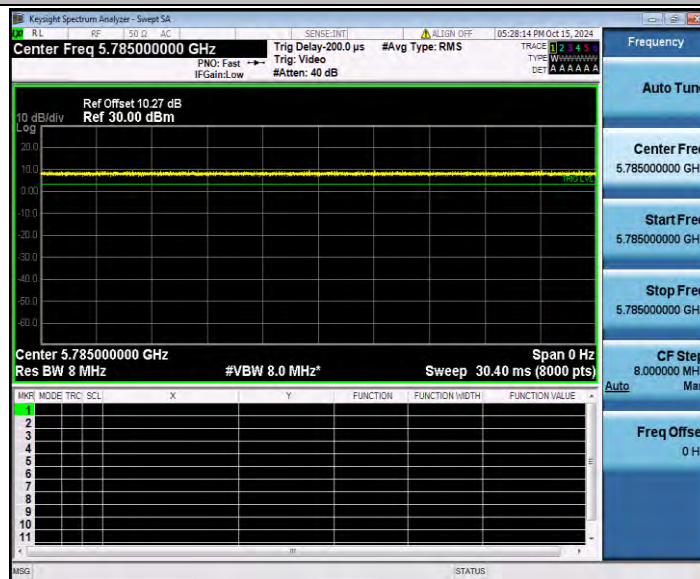
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC20SISO	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
11AC40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5775	30.00	30.00	100.00	0.00	0.03

Test Graphs

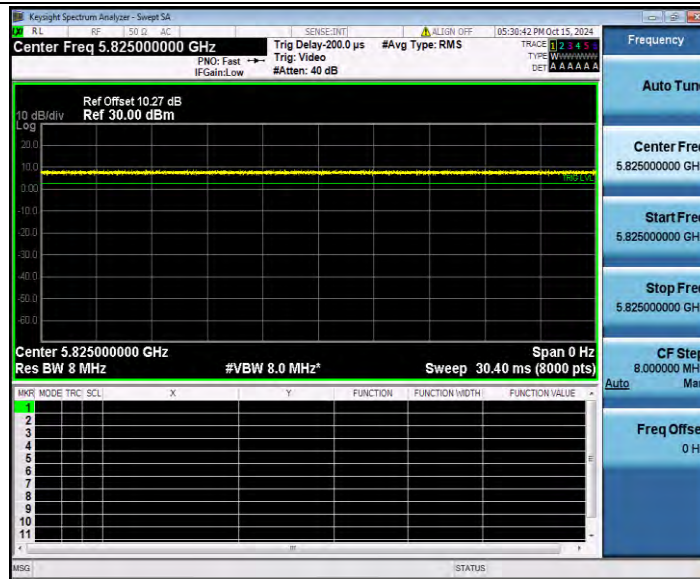
11A_Ant1_5745



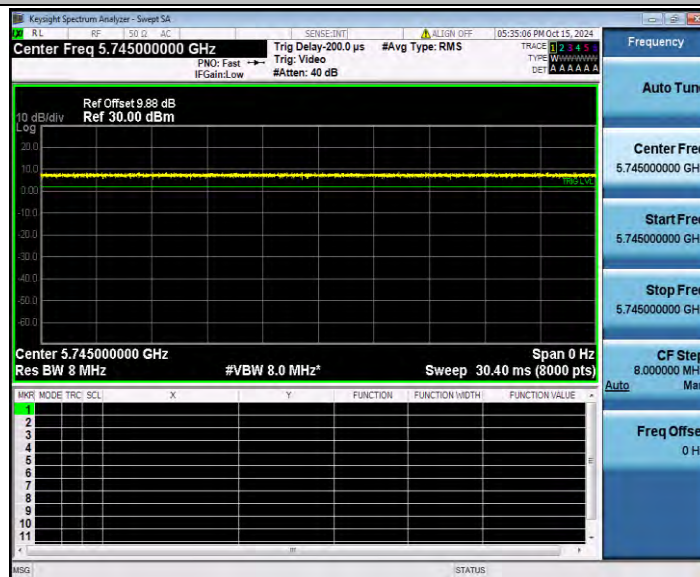
11A_Ant1_5785



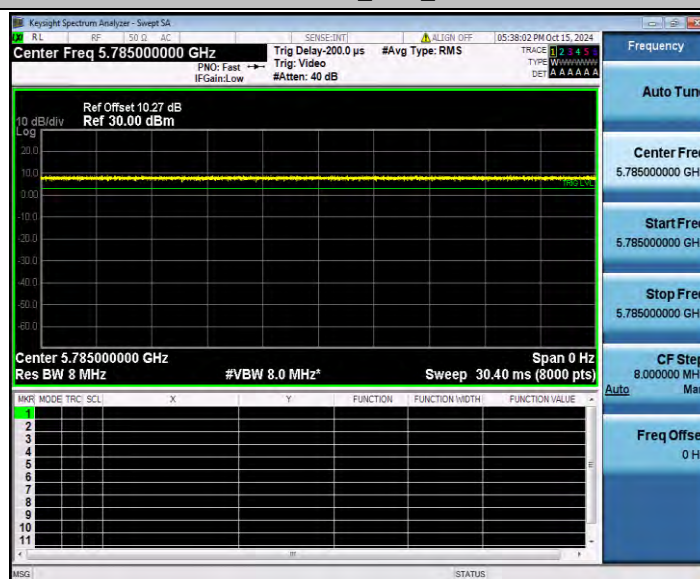
11A_Ant1_5825

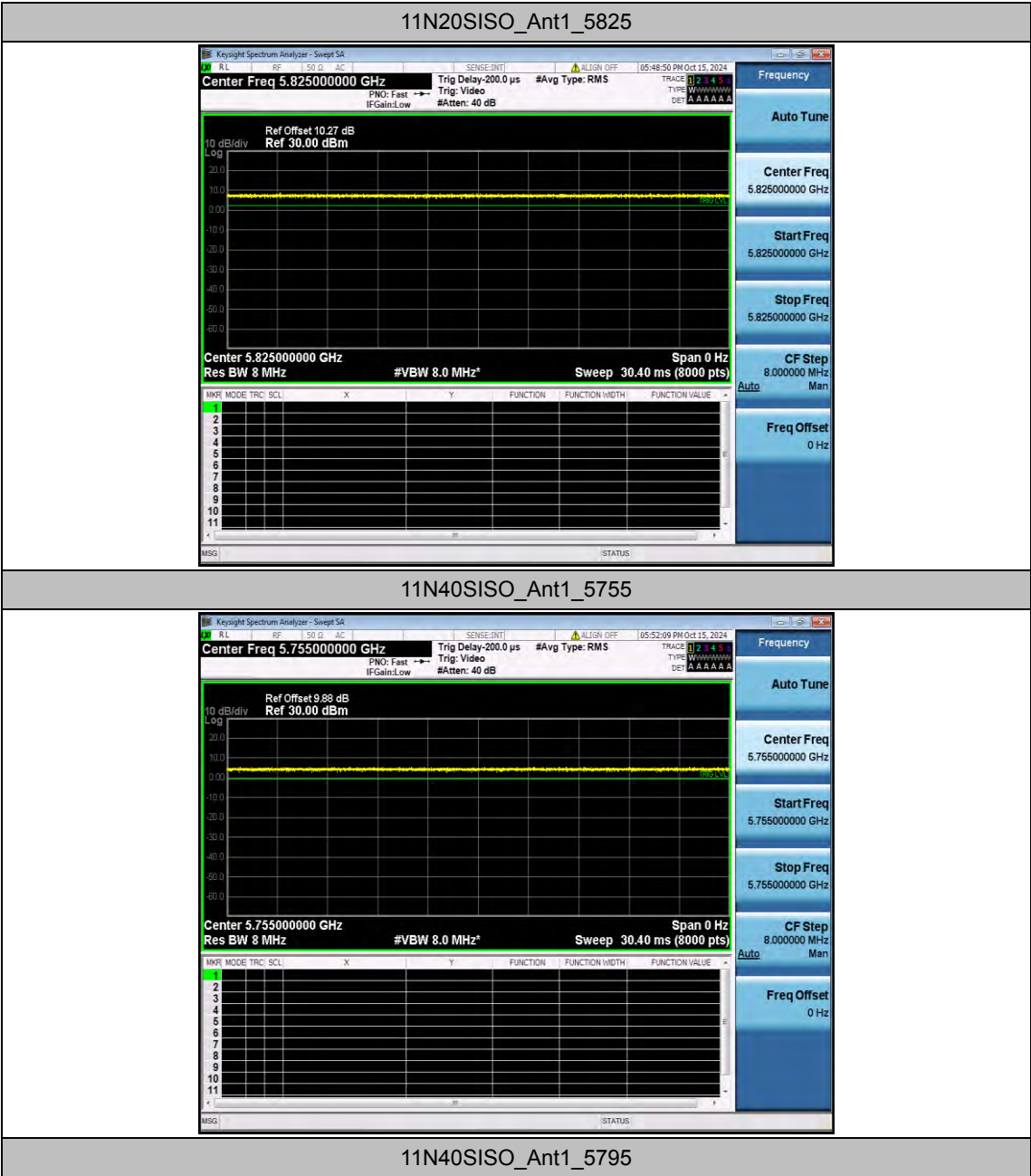


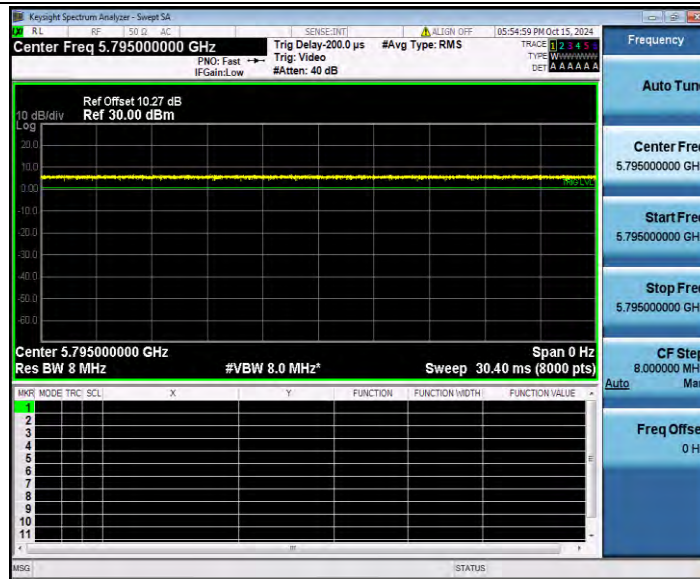
11N20SISO_Ant1_5745



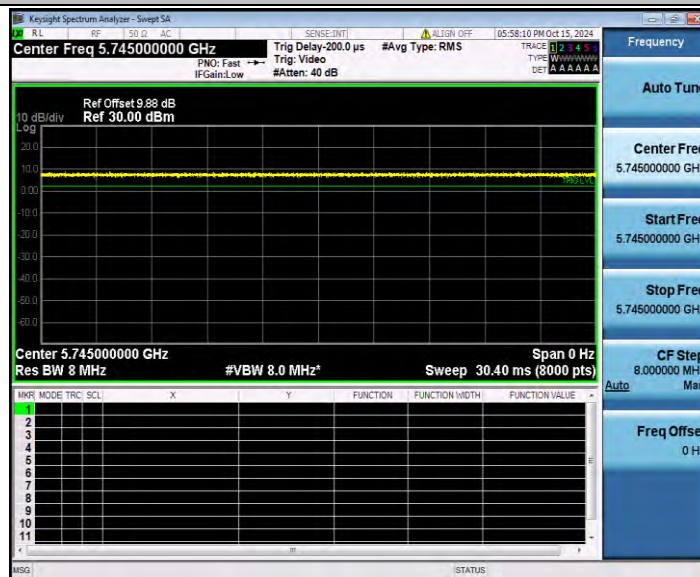
11N20SISO_Ant1_5785



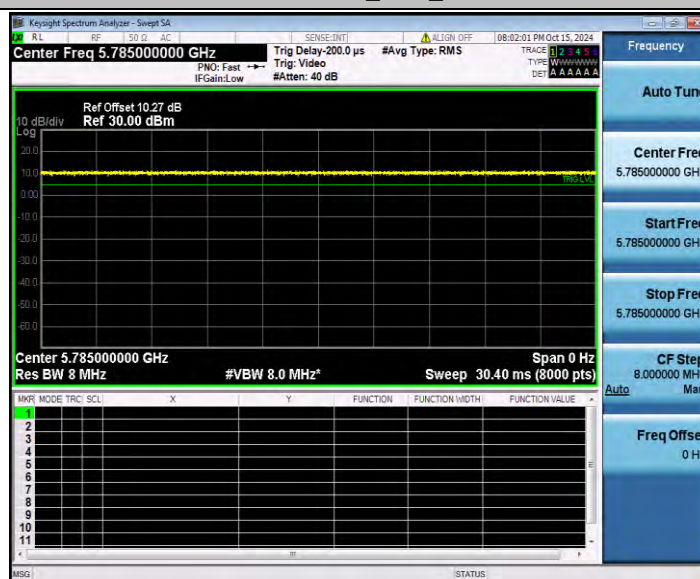


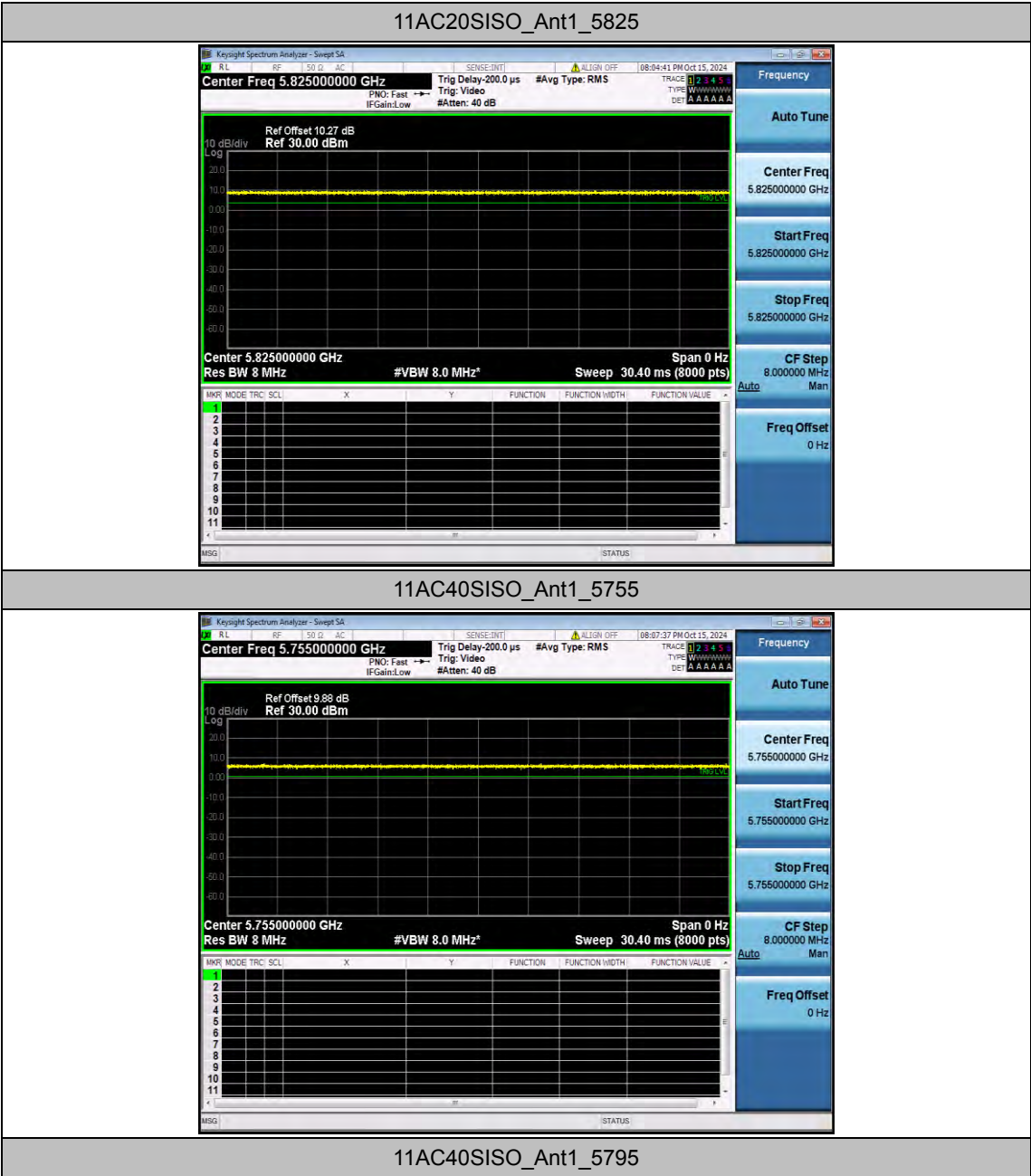


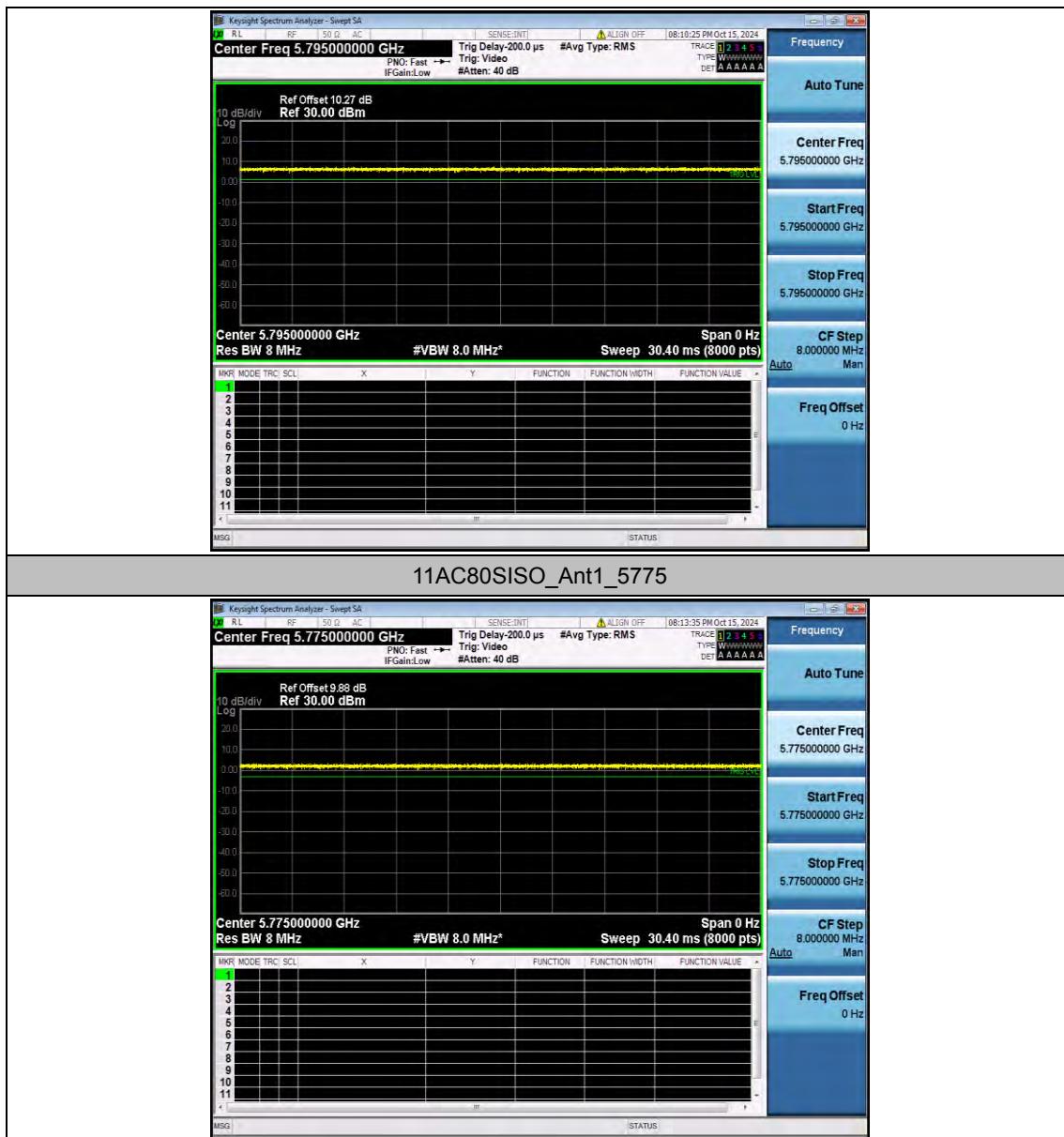
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785







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	12.04	100.00	0.00	12.04	≤30.00	PASS
		5785	12.08	100.00	0.00	12.08	≤30.00	PASS
		5825	11.55	100.00	0.00	11.55	≤30.00	PASS
11N20SISO	Ant1	5745	11.36	100.00	0.00	11.36	≤30.00	PASS
		5785	12.04	100.00	0.00	12.04	≤30.00	PASS
		5825	11.55	100.00	0.00	11.55	≤30.00	PASS
11N40SISO	Ant1	5755	11.08	100.00	0.00	11.08	≤30.00	PASS
		5795	12.44	100.00	0.00	12.44	≤30.00	PASS
11AC20SISO	Ant1	5745	11.57	100.00	0.00	11.57	≤30.00	PASS
		5785	13.99	100.00	0.00	13.99	≤30.00	PASS
		5825	12.85	100.00	0.00	12.85	≤30.00	PASS
11AC40SISO	Ant1	5755	12.59	100.00	0.00	12.59	≤30.00	PASS
		5795	13.04	100.00	0.00	13.04	≤30.00	PASS
11AC80SISO	Ant1	5775	12.88	100.00	0.00	12.88	≤30.00	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-2.39	≤30.00	PASS
		5785	-2.59	≤30.00	PASS
		5825	-2.93	≤30.00	PASS
11N20SISO	Ant1	5745	-3.22	≤30.00	PASS
		5785	-2.80	≤30.00	PASS
		5825	-3.19	≤30.00	PASS
11N40SISO	Ant1	5755	-6.27	≤30.00	PASS
		5795	-5.20	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.99	≤30.00	PASS
		5785	-0.44	≤30.00	PASS
		5825	-1.76	≤30.00	PASS
11AC40SISO	Ant1	5755	-4.88	≤30.00	PASS
		5795	-4.57	≤30.00	PASS
11AC80SISO	Ant1	5775	-6.87	≤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



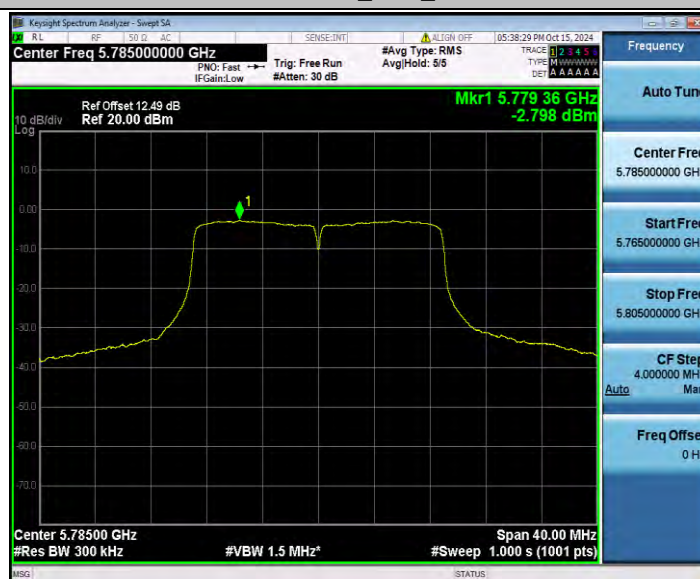
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



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	-41.16	≤-26.96	PASS
				5700~5720	-27.71	≤15.59	PASS
				5720~5725	-23.17	≤20.01	PASS
				5760~5650	-39.77	≤-27	PASS
		High	5825	5850~5855	-34.47	≤16.96	PASS
				5855~5875	-39.38	≤10.10	PASS
				5875~5925	-38.73	≤-26.71	PASS
				5925~5935	-38.26	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.61	≤-26.87	PASS
				5700~5720	-27.31	≤14.66	PASS
				5720~5725	-18.96	≤22.90	PASS
				5760~5650	-40.03	≤-27	PASS
		High	5825	5850~5855	-36.17	≤16.03	PASS
				5855~5875	-34.8	≤13.73	PASS
				5875~5925	-39.88	≤-26.91	PASS
				5925~5935	-38.6	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-38.92	≤-26.00	PASS
				5700~5720	-20.61	≤15.31	PASS
				5720~5725	-21.79	≤18.51	PASS
				5780~5650	-39.92	≤-27	PASS
		High	5795	5850~5855	-36.81	≤16.03	PASS
				5855~5875	-36.75	≤10.94	PASS
				5875~5925	-39.76	≤-26.71	PASS
				5925~5935	-38.58	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-39.92	≤-26.79	PASS
				5700~5720	-29.2	≤13.57	PASS
				5720~5725	-17.64	≤24.73	PASS
				5760~5650	-39.92	≤-27	PASS
		High	5825	5850~5855	-34	≤16.34	PASS
				5855~5875	-34.72	≤10.89	PASS
				5875~5925	-38.99	≤-26.31	PASS
				5925~5935	-38.65	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.17	≤-26.60	PASS
				5700~5720	-19.37	≤15.28	PASS
				5720~5725	-21.76	≤16.35	PASS
				5780~5650	-39.58	≤-27	PASS

		High	5795	5850~5855	-34.68	≤ 15.66	PASS
				5855~5875	-36.99	≤ 10.71	PASS
				5875~5925	-39.32	≤ -26.83	PASS
				5925~5935	-38.25	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-34.71	≤ -25.77	PASS
				5700~5720	-23.77	≤ 11.27	PASS
				5720~5725	-20.39	≤ 18.83	PASS
				5800~5650	-35.73	≤ -27	PASS
		High	5775	5850~5855	-21.84	≤ 17.10	PASS
				5855~5875	-23.99	≤ 11.64	PASS
				5875~5925	-38.63	≤ -26.87	PASS
				5925~5935	-37.47	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



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 E.7: Conducted Spurious Emission

Test Result

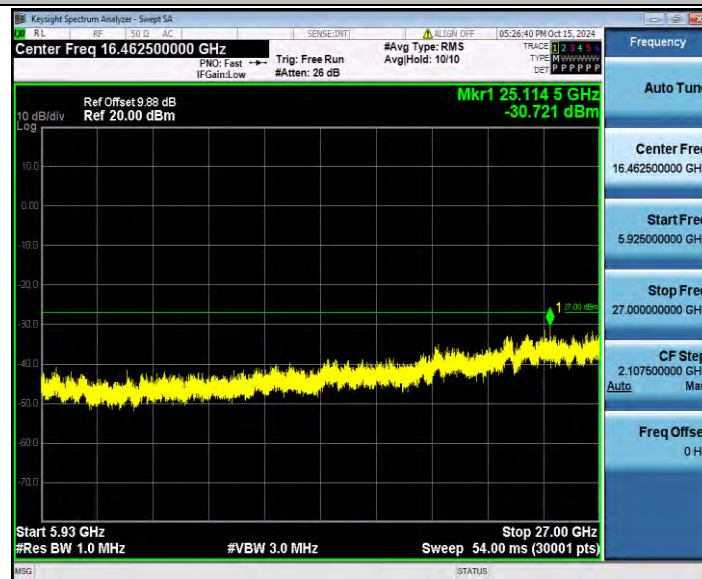
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	2662.03	-40.3	≤-27	PASS
			5925~27000	25114.49	-30.72	≤-27	PASS
		5785	30~5650	2655.85	-40.16	≤-27	PASS
			5925~27000	24299.59	-31.31	≤-27	PASS
		5825	30~5650	4923.71	-39.92	≤-27	PASS
			5925~27000	24241.99	-31.88	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	2643.49	-40.47	≤-27	PASS
			5925~27000	26728.13	-31.83	≤-27	PASS
		5785	30~5650	3066.11	-40.34	≤-27	PASS
			5925~27000	26573.58	-31.23	≤-27	PASS
		5825	30~5650	2666.15	-40.13	≤-27	PASS
			5925~27000	26875.66	-30.8	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	2560.87	-40.64	≤-27	PASS
			5925~27000	24266.57	-31.67	≤-27	PASS
		5795	30~5650	2615.57	-40.15	≤-27	PASS
			5925~27000	24275	-31.7	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5408.15	-40.58	≤-27	PASS
			5925~27000	24230.04	-32.2	≤-27	PASS
		5785	30~5650	5414.9	-39.47	≤-27	PASS
			5925~27000	23626.6	-31.8	≤-27	PASS
		5825	30~5650	4964.36	-40.01	≤-27	PASS
			5925~27000	26022.82	-31.77	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	828.23	-34.63	≤-27	PASS
			5925~27000	26079.73	-31.51	≤-27	PASS
		5795	30~5650	825.42	-39.11	≤-27	PASS
			5925~27000	24810.31	-31.66	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	1757.4	-37	≤-27	PASS
			5925~27000	24255.33	-32.42	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~27000



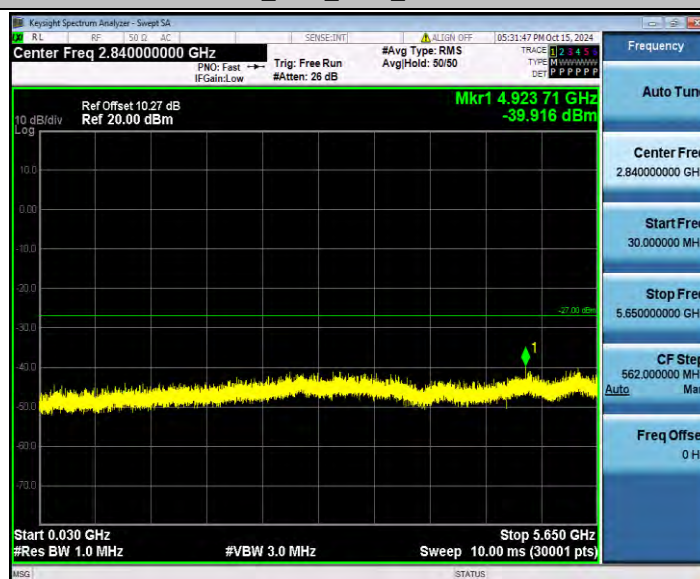
11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~27000



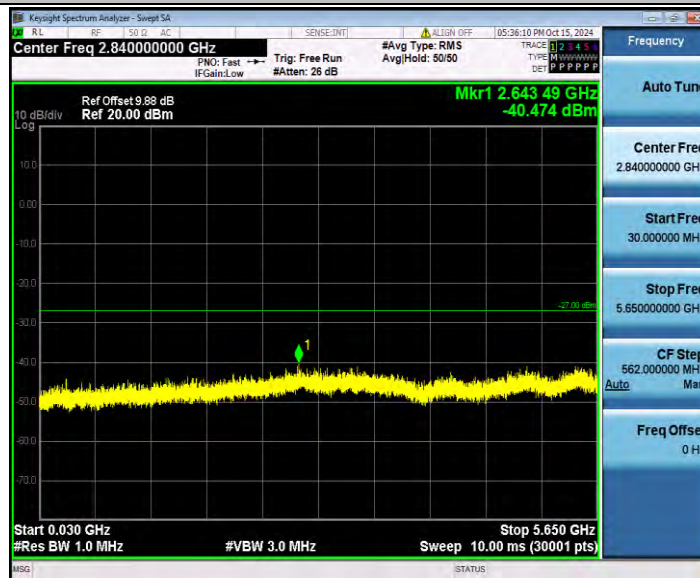
11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



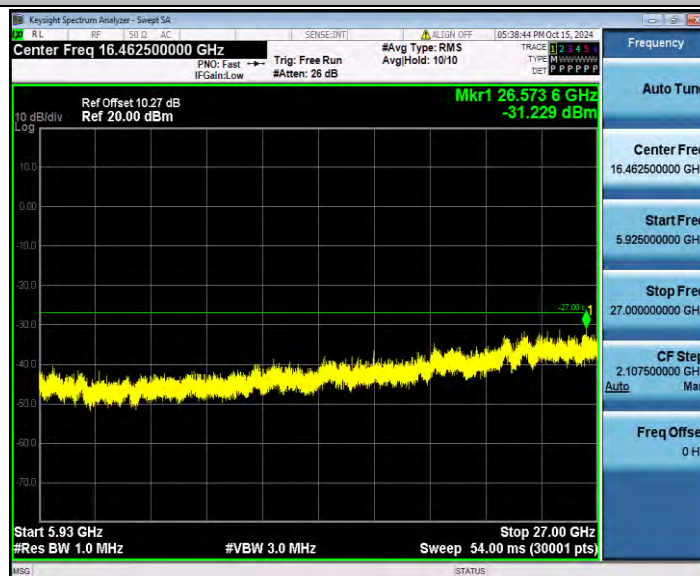
11N20SISO_Ant1_5745_5925~27000



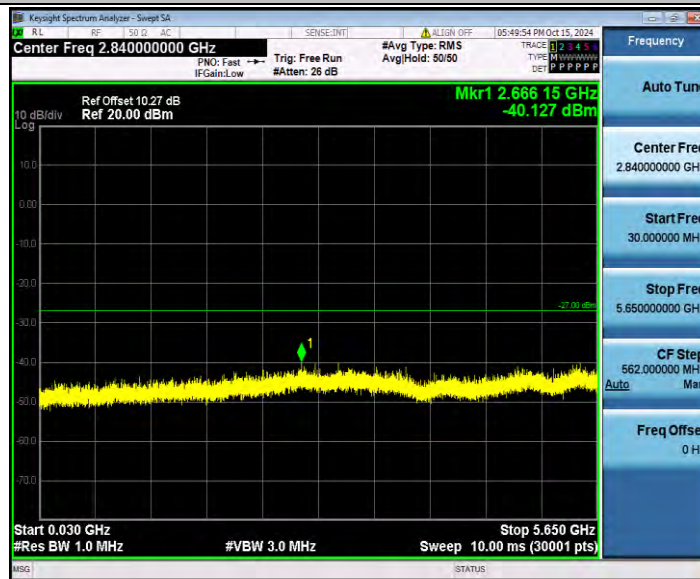
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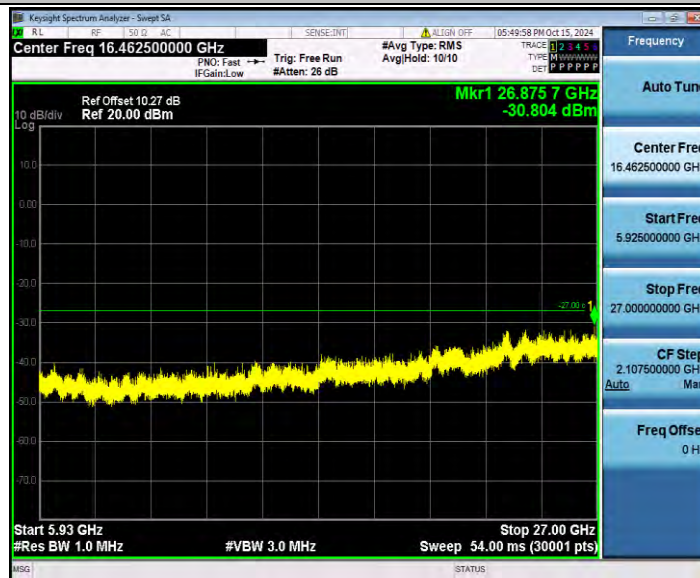
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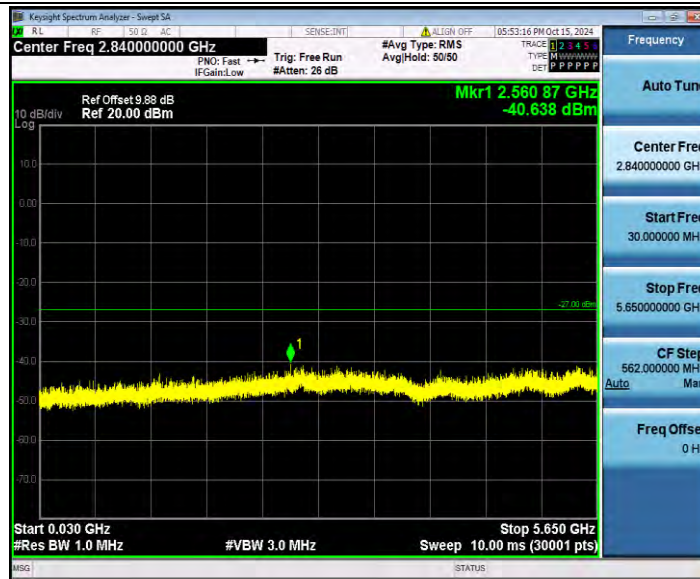
11N20SISO_Ant1_5825_30~5650



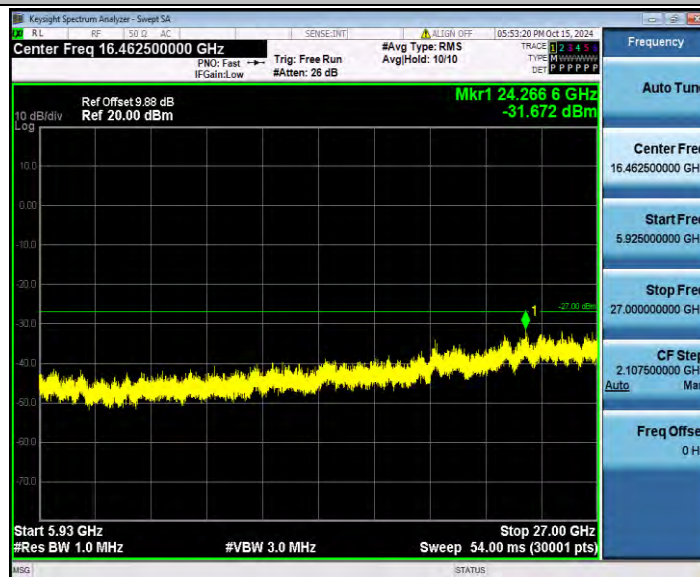
11N20SISO_Ant1_5825_5925~27000



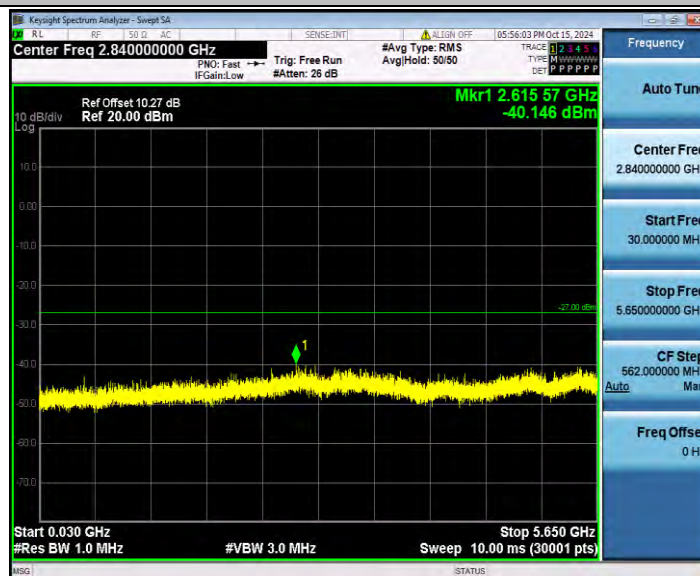
11N40SISO_Ant1_5755_30~5650



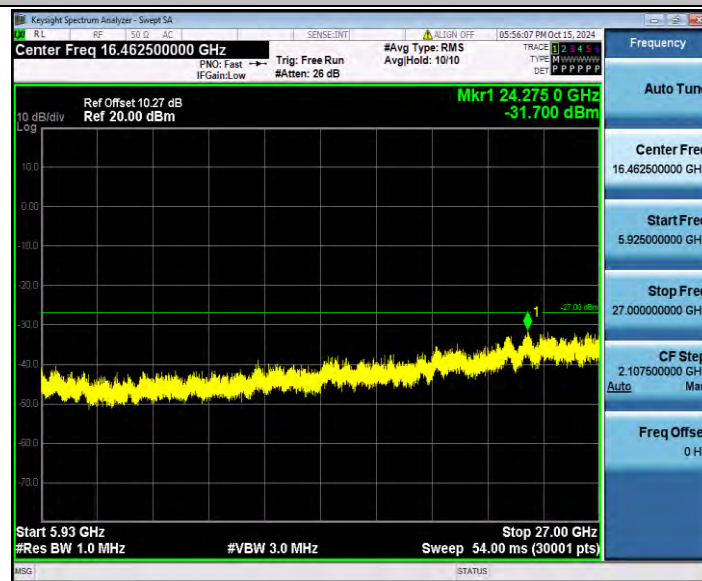
11N40SISO_Ant1_5755_5925~27000



11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~27000



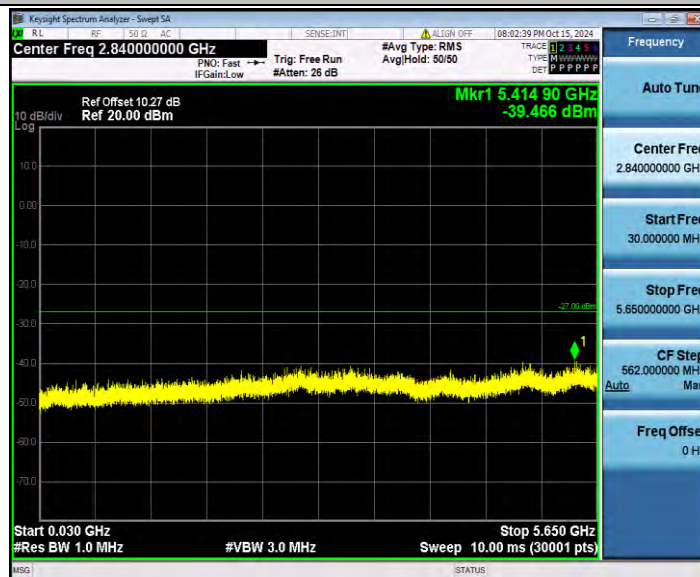
11AC20SISO_Ant1_5745_30~5650



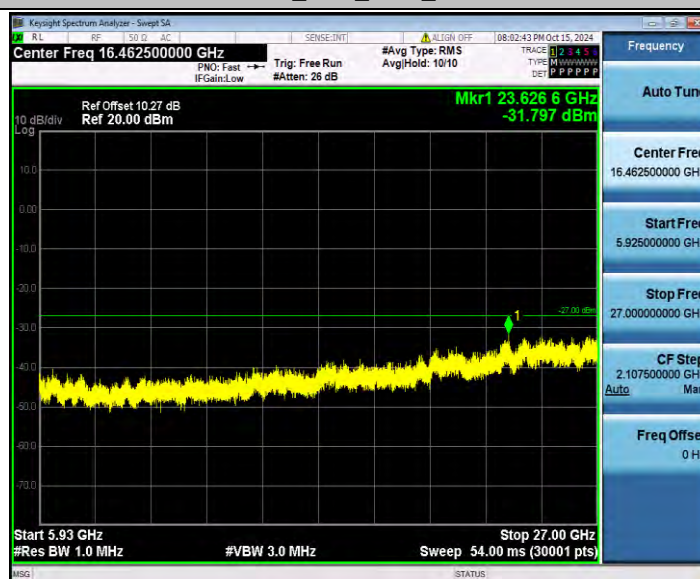
11AC20SISO_Ant1_5745_5925~27000



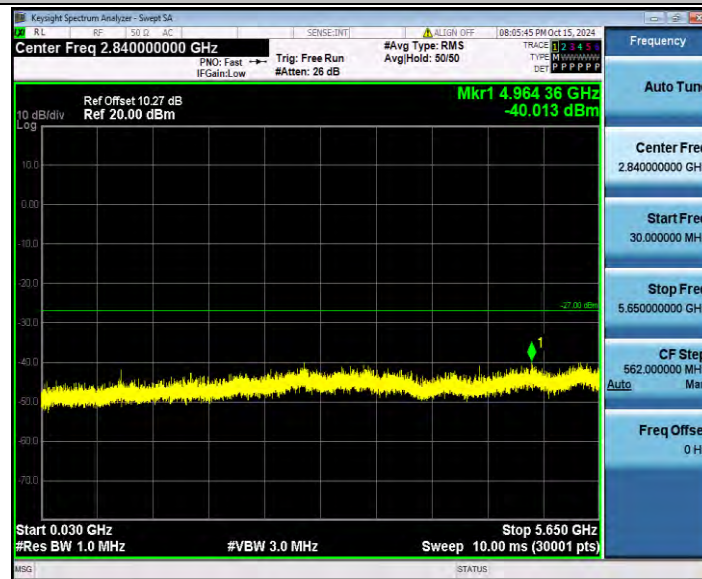
11AC20SISO_Ant1_5785_30~5650



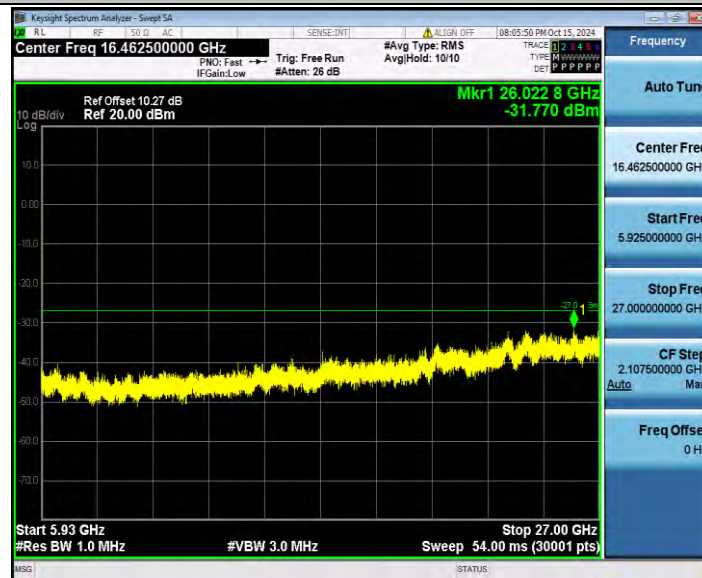
11AC20SISO_Ant1_5785_5925~27000



11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~27000



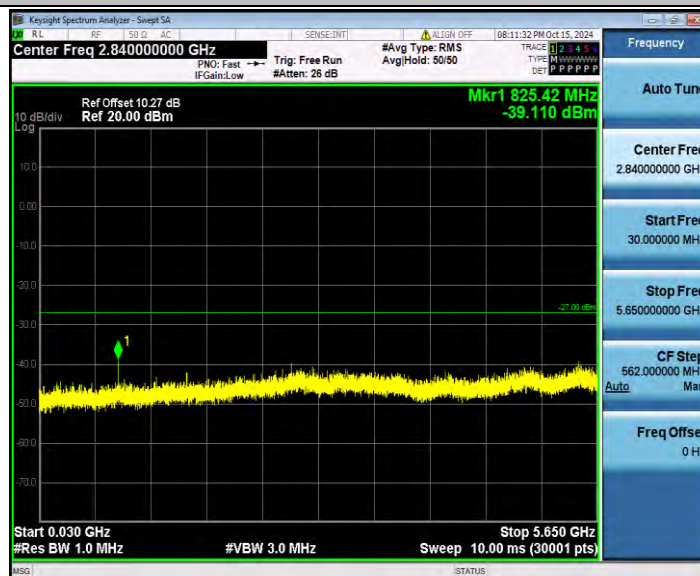
11AC40SISO_Ant1_5755_30~5650



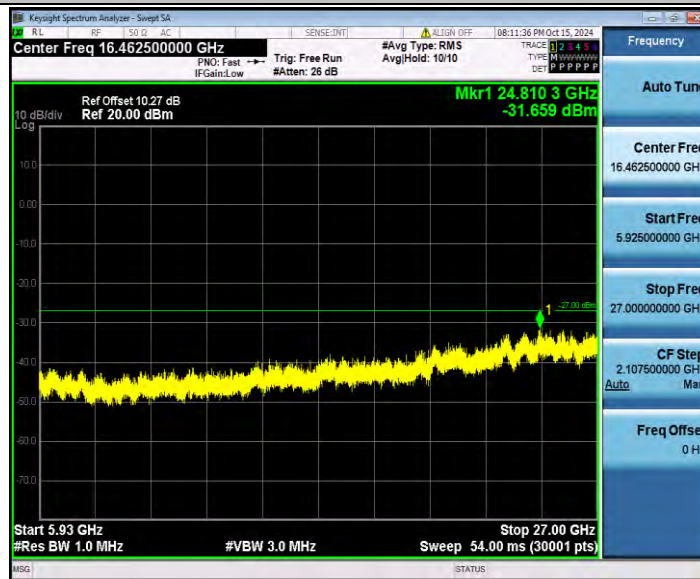
11AC40SISO_Ant1_5755_5925~27000



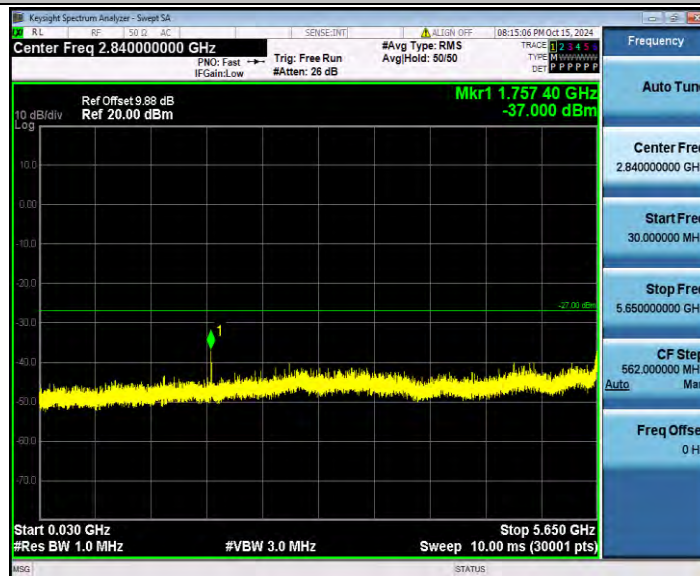
11AC40SISO_Ant1_5795_30~5650



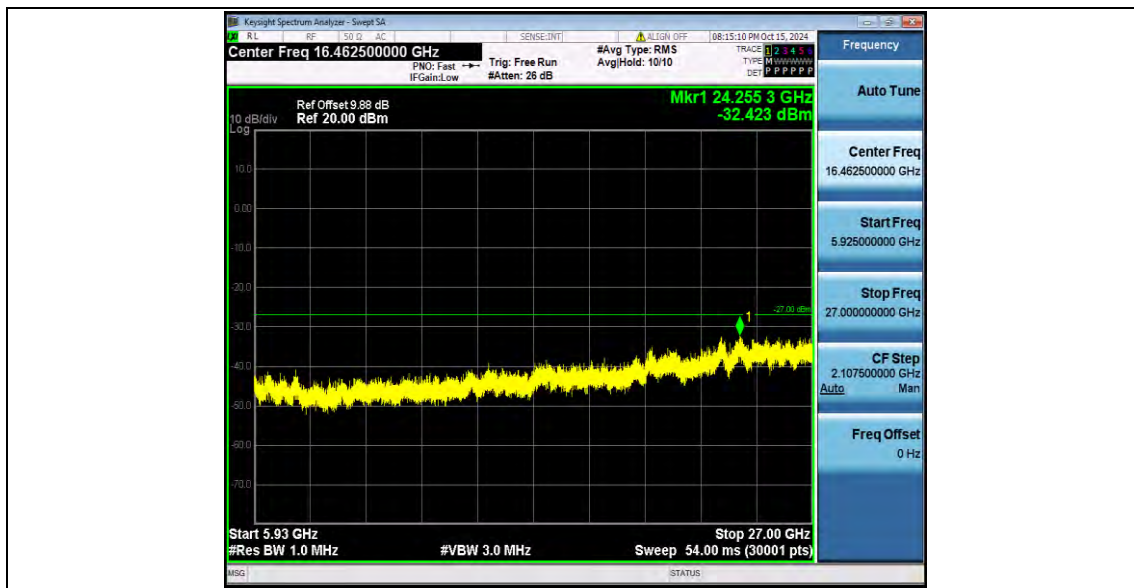
11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix E.8: Emissions in Restricted Bands

Test Result

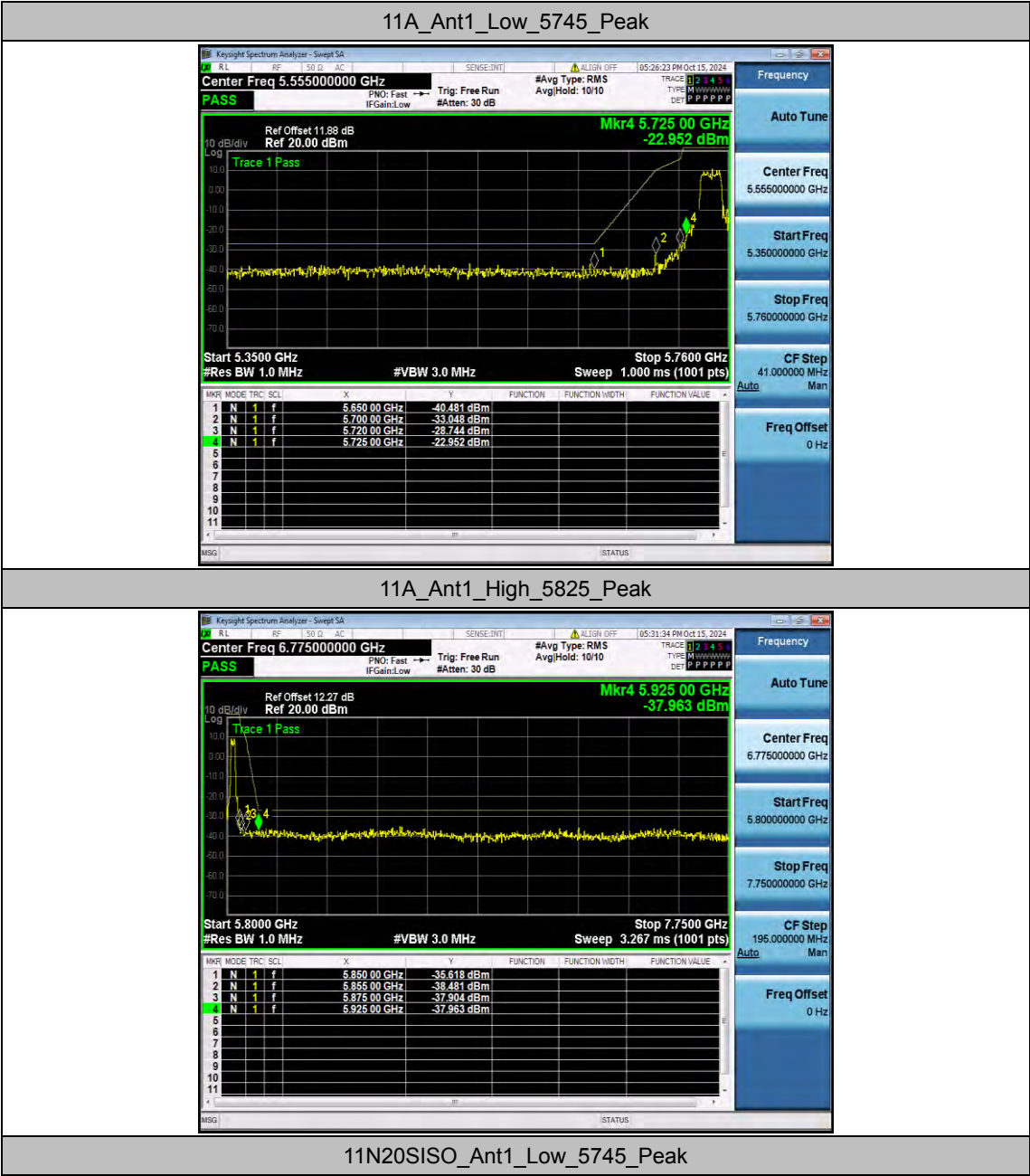
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.48 1	≤-27.00	---	---	PASS
				Peak	5700.000	-33.05	≤10.00	---	---	PASS
				Peak	5720.000	-28.74	≤15.60	---	---	PASS
				Peak	5725.000	-22.95	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.61 8	≤27.00	---	---	PASS
				Peak	5855.000	-38.48	≤15.60	---	---	PASS
				Peak	5875.000	-37.9	≤10.00	---	---	PASS
				Peak	5925.000	-37.96	≤-27.00	---	---	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-42.03	≤-27.00	---	---	PASS
				Peak	5700.000	-40.62	≤10.00	---	---	PASS
				Peak	5720.000	-31.22	≤15.60	---	---	PASS
				Peak	5725.000	-20.64	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.26 4	≤27.00	---	---	PASS
				Peak	5855.000	-36.71	≤15.60	---	---	PASS
				Peak	5875.000	-38.49	≤10.00	---	---	PASS
				Peak	5925.000	-38.53	≤-27.00	---	---	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-41.85 7	≤-27.00	---	---	PASS
				Peak	5700.000	-36.05	≤10.00	---	---	PASS
				Peak	5720.000	-28.45	≤15.60	---	---	PASS
				Peak	5725.000	-25.99	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-34.22 7	≤27.00	---	---	PASS
				Peak	5855.000	-35.73	≤15.60	---	---	PASS
				Peak	5875.000	-37.96	≤10.00	---	---	PASS
				Peak	5925.000	-39.89	≤-27.00	---	---	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-43.92 2	≤-27.00	---	---	PASS
				Peak	5700.000	-41.31	≤10.00	---	---	PASS
				Peak	5720.000	-34.55	≤15.60	---	---	PASS
				Peak	5725.000	-26.93	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-32.78 3	≤27.00	---	---	PASS

				Peak	5855.000	-31.14	≤ 15.60	---	---	PASS
				Peak	5875.000	-38.12	≤ 10.00	---	---	PASS
				Peak	5925.000	-39.08	≤ -27.00	---	---	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-39.91 4	≤ -27.00	---	---	PASS
				Peak	5700.000	-35.71	≤ 10.00	---	---	PASS
				Peak	5720.000	-24.26	≤ 15.60	---	---	PASS
				Peak	5725.000	-22.45	≤ 27.00	---	---	PASS
		High	5795	Peak	5850.000	-34.67 3	≤ 27.00	---	---	PASS
				Peak	5855.000	-35.43	≤ 15.60	---	---	PASS
				Peak	5875.000	-35.1	≤ 10.00	---	---	PASS
				Peak	5925.000	-38.37	≤ -27.00	---	---	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-38.86 3	≤ -27.00	---	---	PASS
				Peak	5700.000	-29.3	≤ 10.00	---	---	PASS
				Peak	5720.000	-25.64	≤ 15.60	---	---	PASS
				Peak	5725.000	-24.95	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-24.1	≤ 27.00	---	---	PASS
				Peak	5855.000	-21.15	≤ 15.60	---	---	PASS
				Peak	5875.000	-29.11	≤ 10.00	---	---	PASS
				Peak	5925.000	-37.98	≤ -27.00	---	---	PASS

Note:

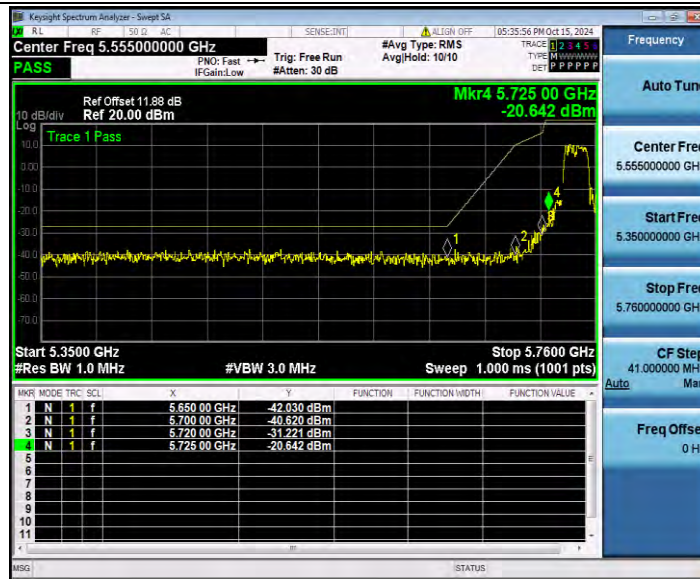
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm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

Test Graphs

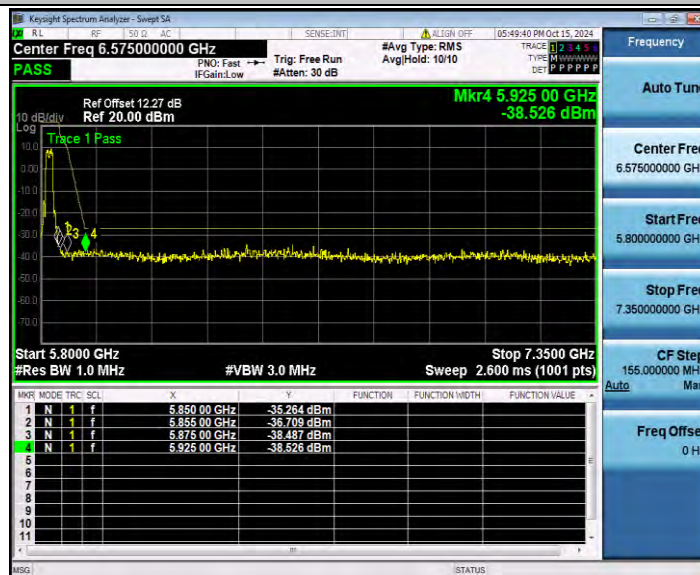


11A_Ant1_High_5825_Peak

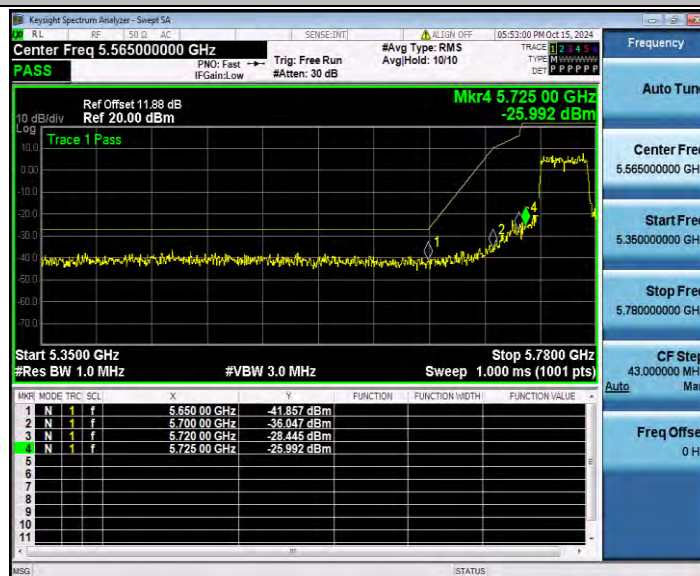
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak



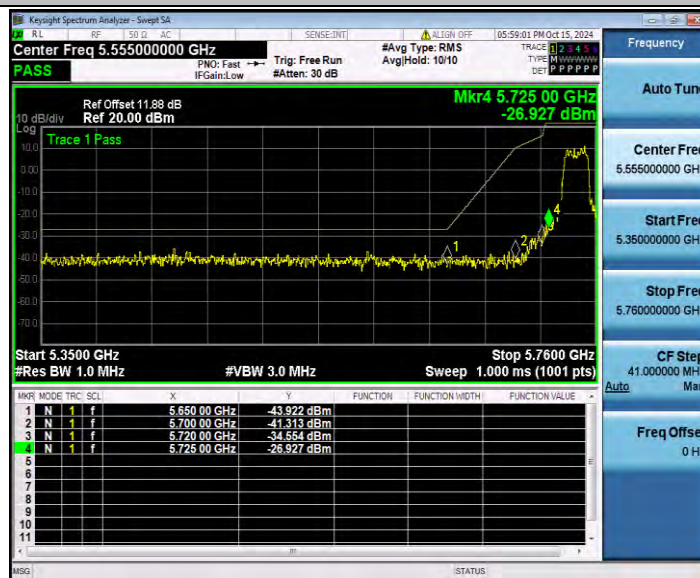
11N40SISO_Ant1_Low_5755_Peak



11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak



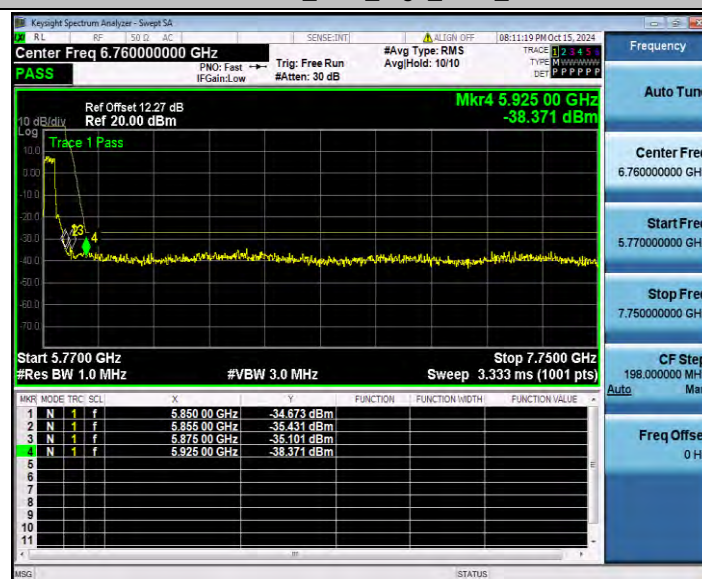
11AC20SISO_Ant1_High_5825_Peak



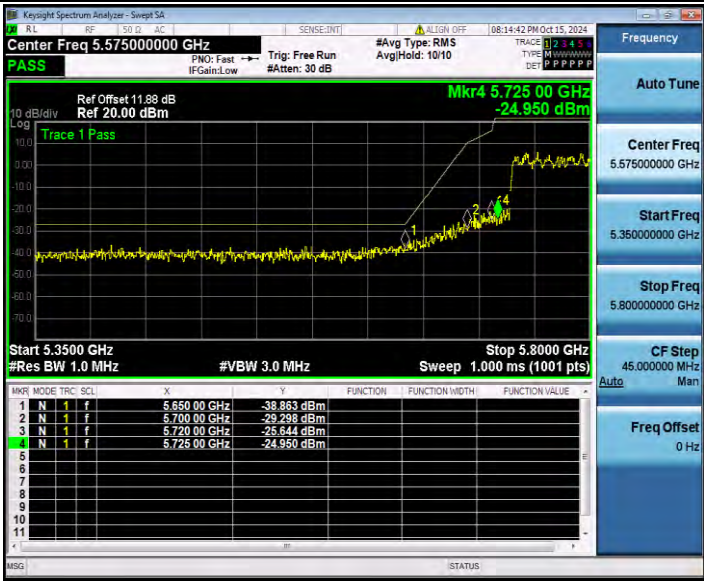
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

