

Case No. : <u>CTA24052000904</u>	
Ambient Condition: <u>23</u> °C, <u>55</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.6.24</u>	Test Engineer: <u>Lushan Kong</u>

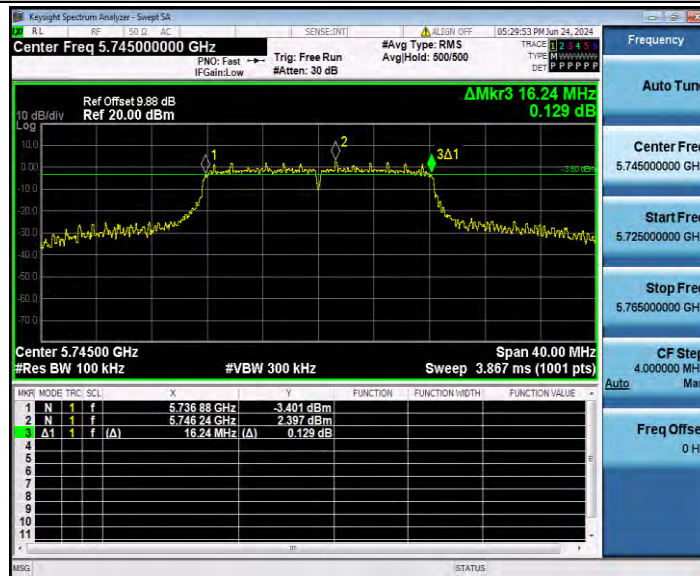
Appendix E.1: Min emission bandwidth

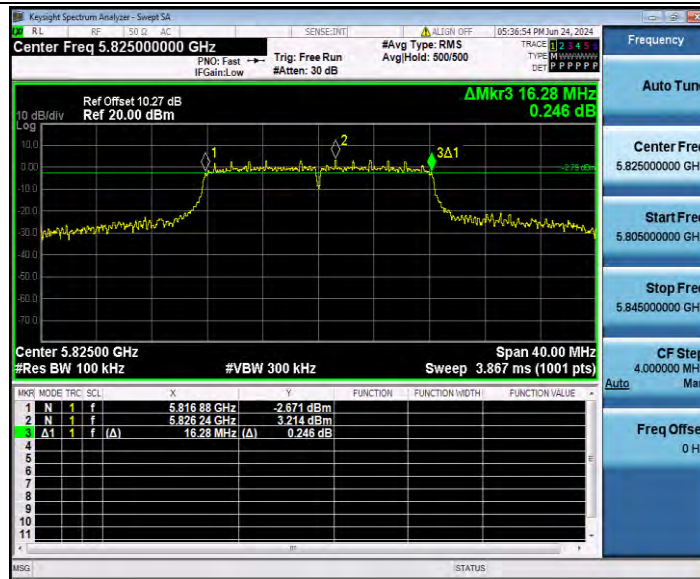
Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.240	5736.880	5753.120	0.5	PASS
		5785	16.080	5777.080	5793.160	0.5	PASS
		5825	16.280	5816.880	5833.160	0.5	PASS
11N20SISO	Ant1	5745	16.880	5736.520	5753.400	0.5	PASS
		5785	16.880	5776.640	5793.520	0.5	PASS
		5825	16.600	5816.560	5833.160	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.480	5772.600	0.5	PASS
		5795	35.120	5777.480	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	16.080	5736.880	5752.960	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.480	5772.600	0.5	PASS
		5795	33.840	5778.680	5812.520	0.5	PASS

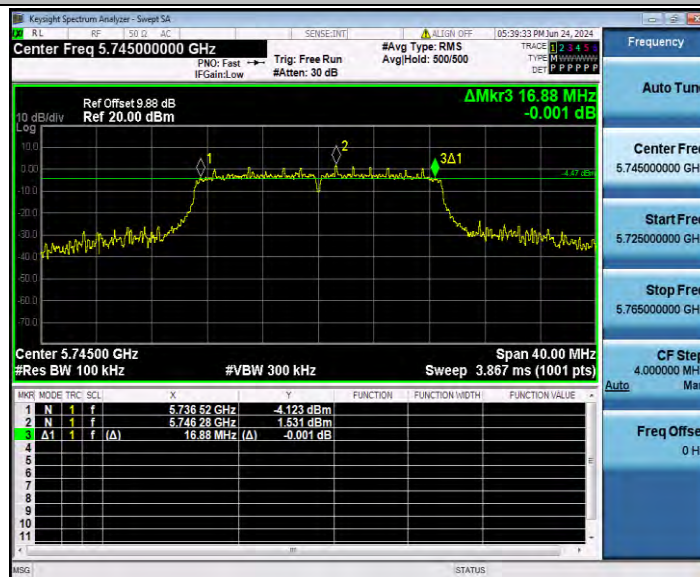
Test Graphs B4

11A_Ant1_5745

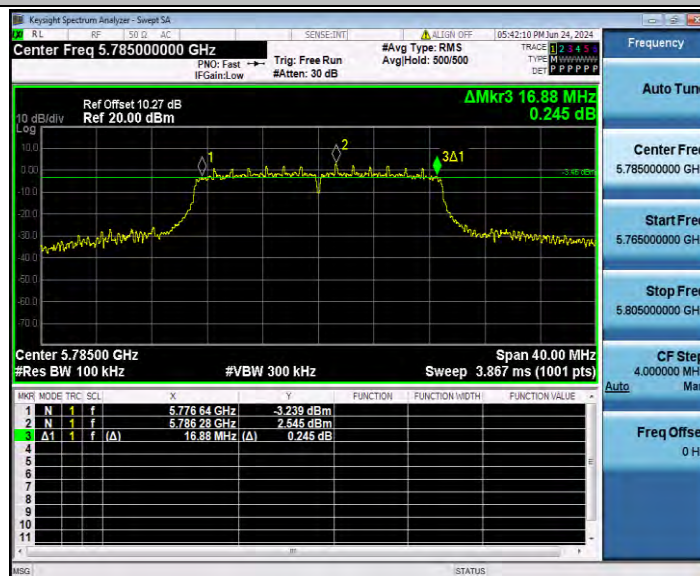




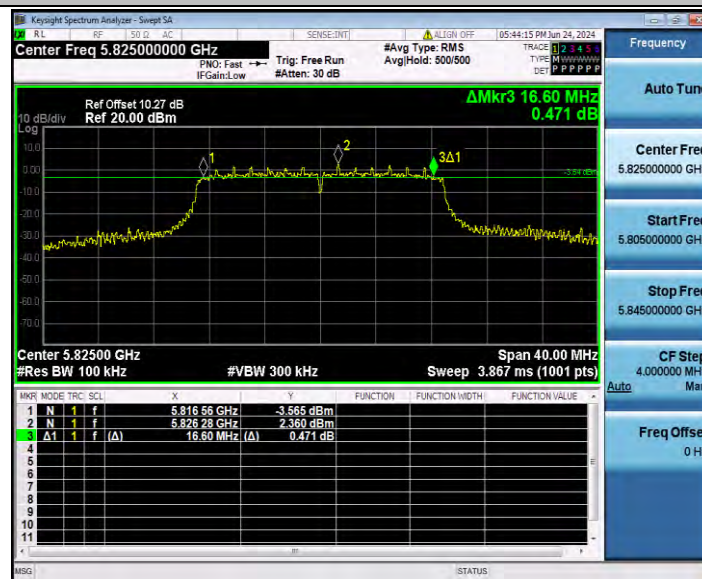
11N20SISO_Ant1_5745



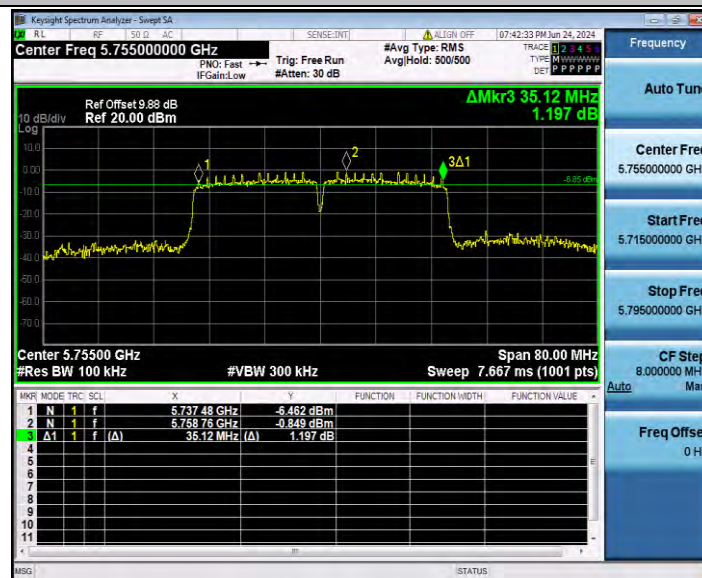
11N20SISO_Ant1_5785



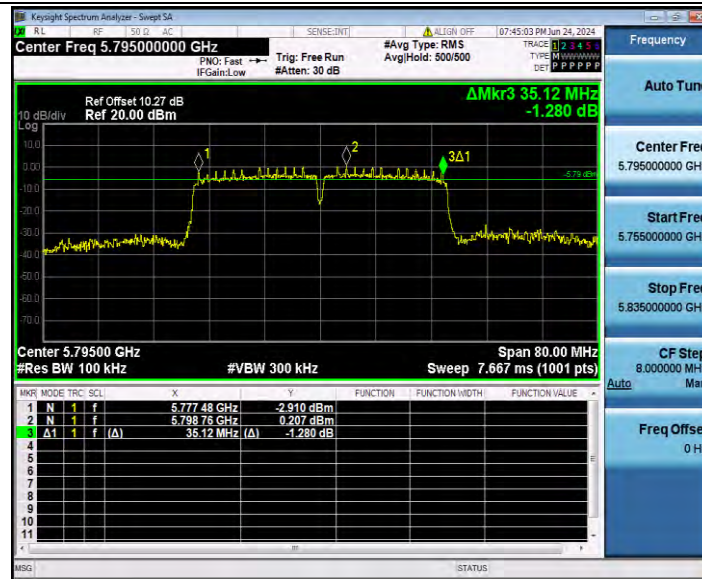
11N20SISO_Ant1_5825



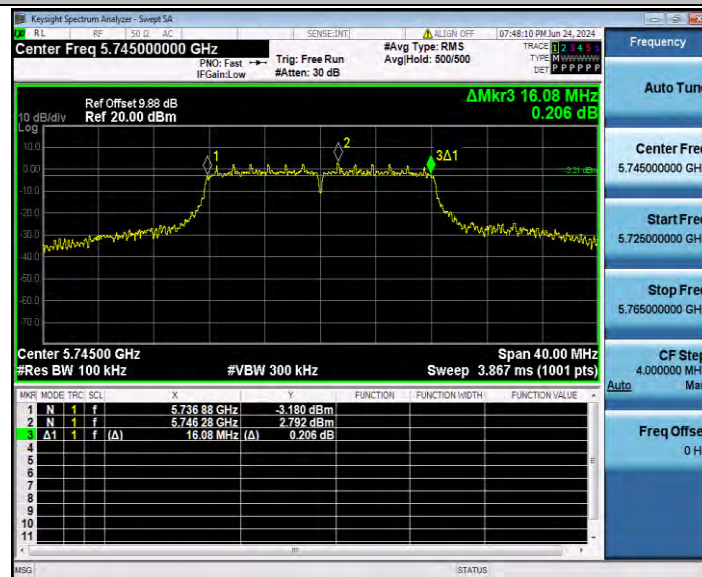
11N40SISO_Ant1_5755



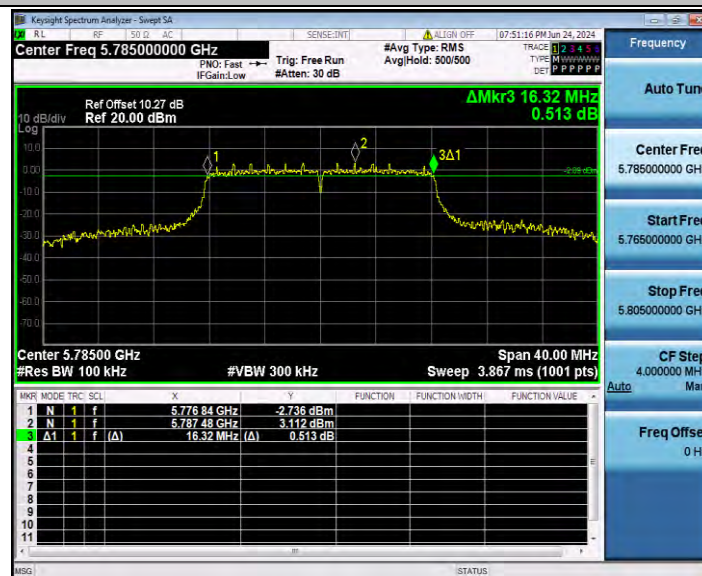
11N40SISO_Ant1_5795



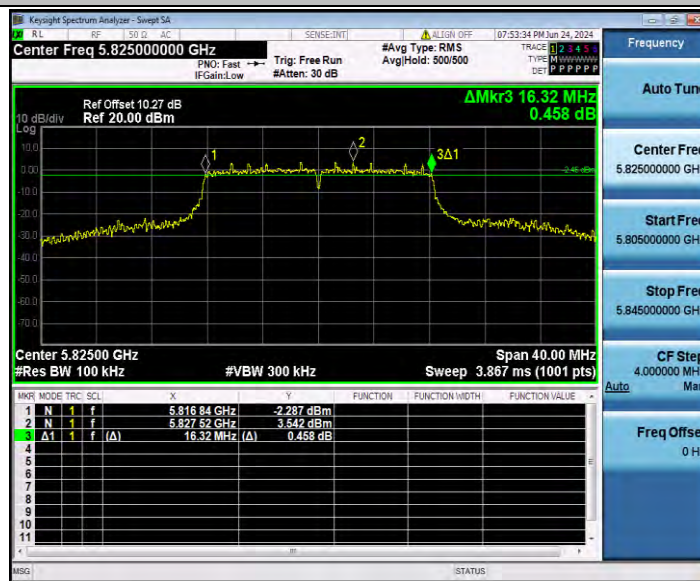
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11AC20SISO_Ant1_5785



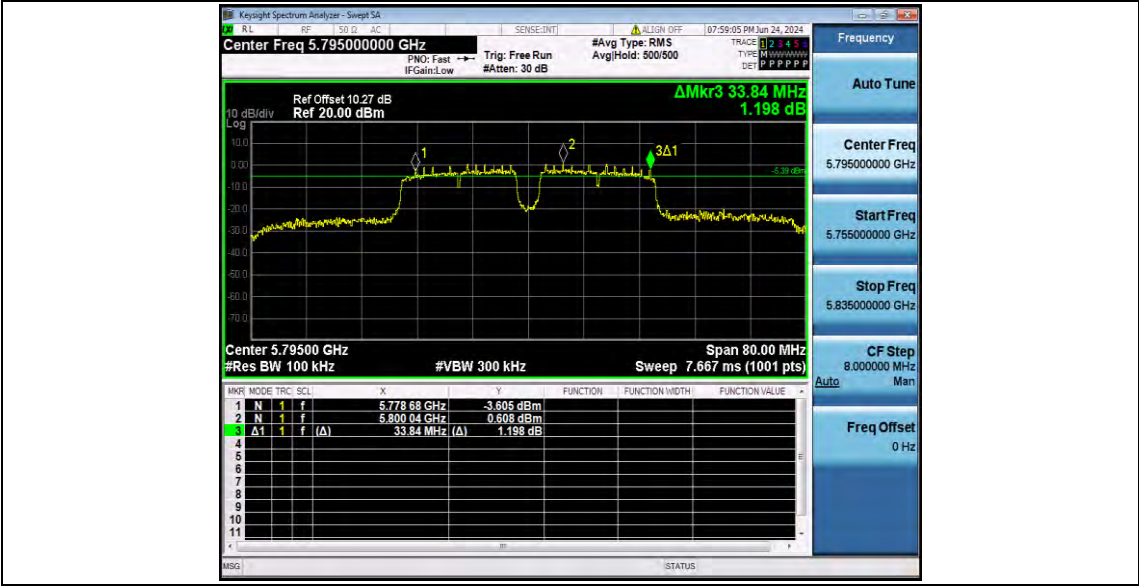
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



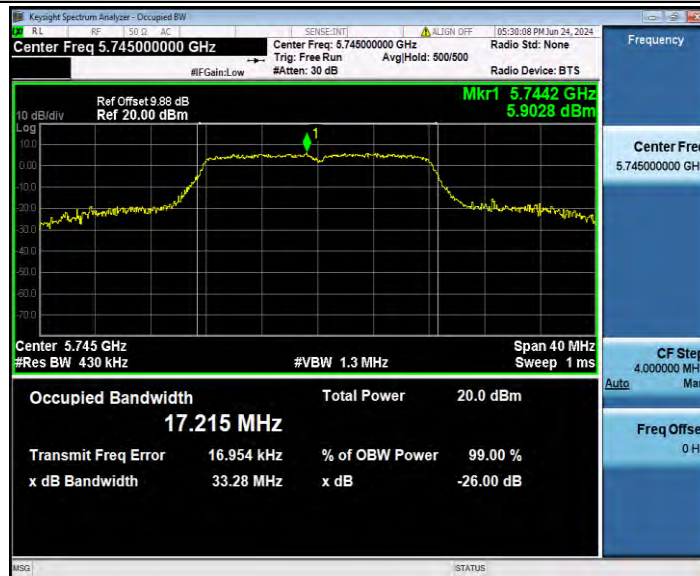
Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5745	17.215	5736.4095	5753.6245
		5785	17.373	5776.4089	5793.7819
		5825	17.686	5816.3649	5834.0509
11N20SISO	Ant1	5745	18.097	5736.0096	5754.1066
		5785	18.181	5775.9195	5794.1005
		5825	18.194	5815.9444	5834.1384
11N40SISO	Ant1	5755	36.140	5737.0552	5773.1952
		5795	36.037	5777.0699	5813.1069
11AC20SISO	Ant1	5745	17.292	5736.4224	5753.7144
		5785	17.298	5776.4340	5793.7320
		5825	17.477	5816.4079	5833.8849
11AC40SISO	Ant1	5755	46.706	5735.6289	5782.3349
		5795	45.718	5775.5911	5821.3091

Test Graphs

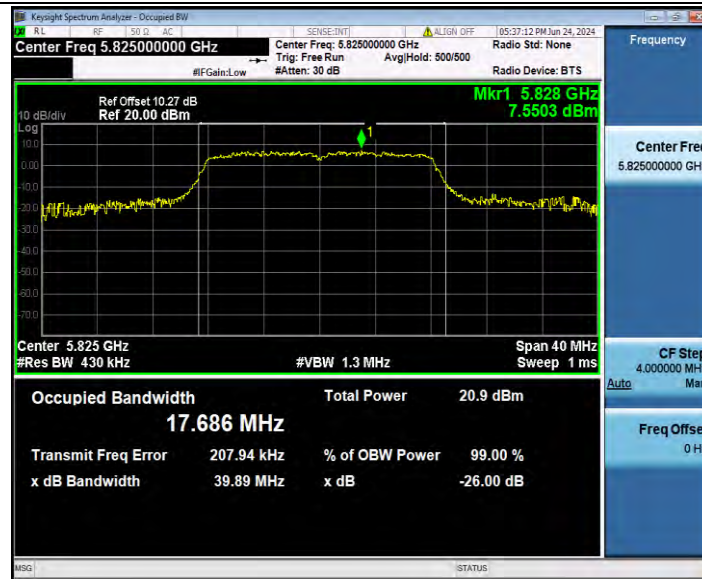
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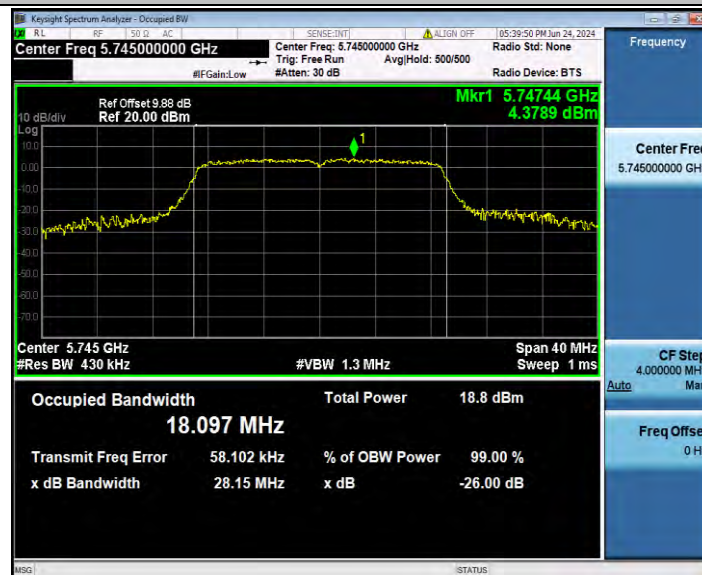
11A_Ant1_5785



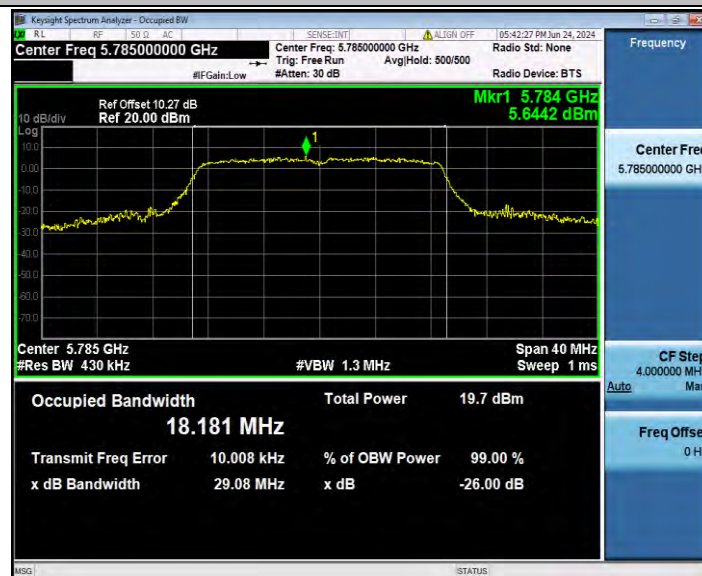
11A_Ant1_5825



11N20SISO_Ant1_5745



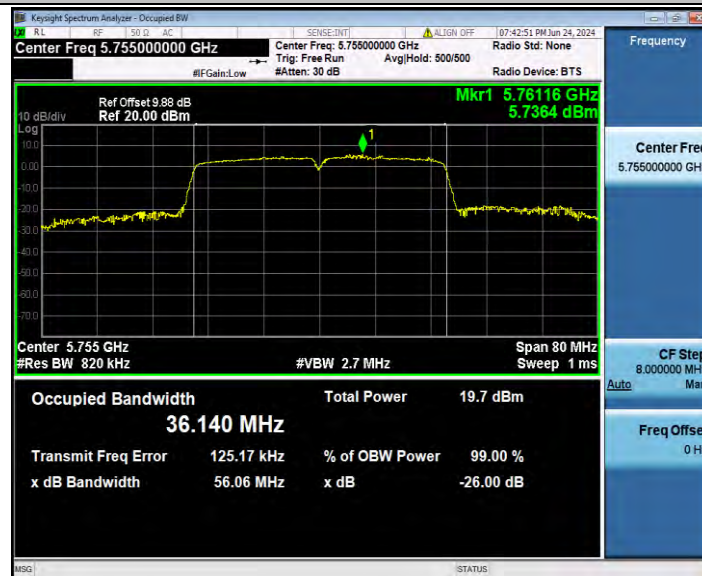
11N20SISO_Ant1_5785



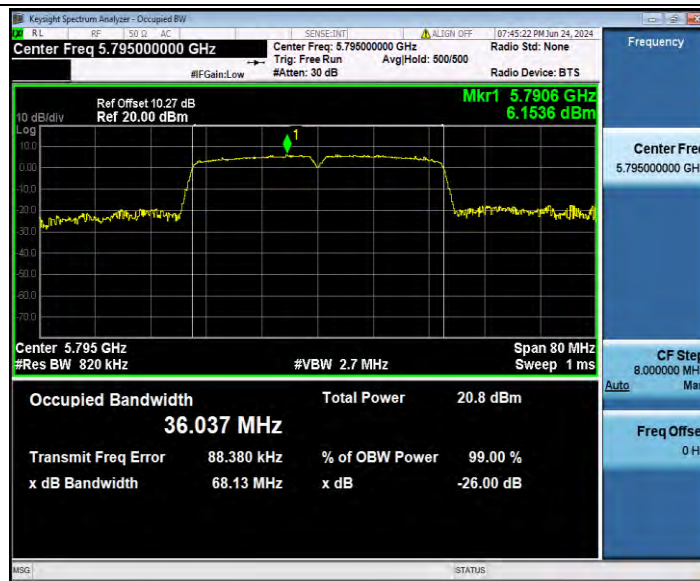
11N20SISO_Ant1_5825



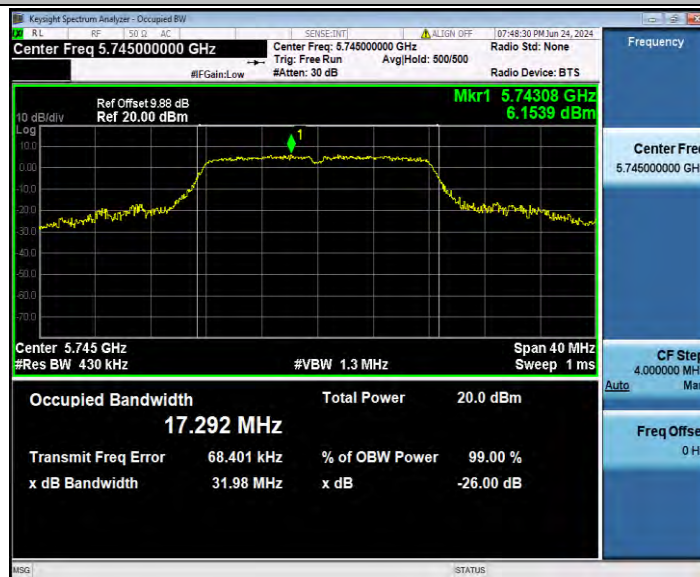
11N40SISO_Ant1_5755



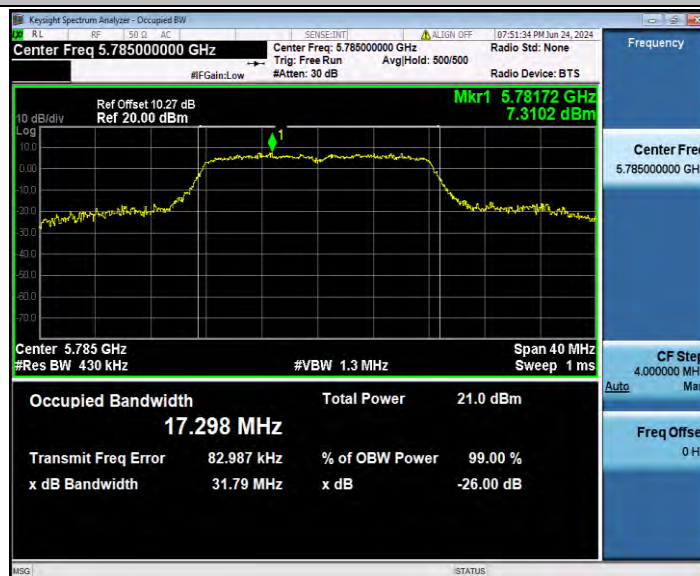
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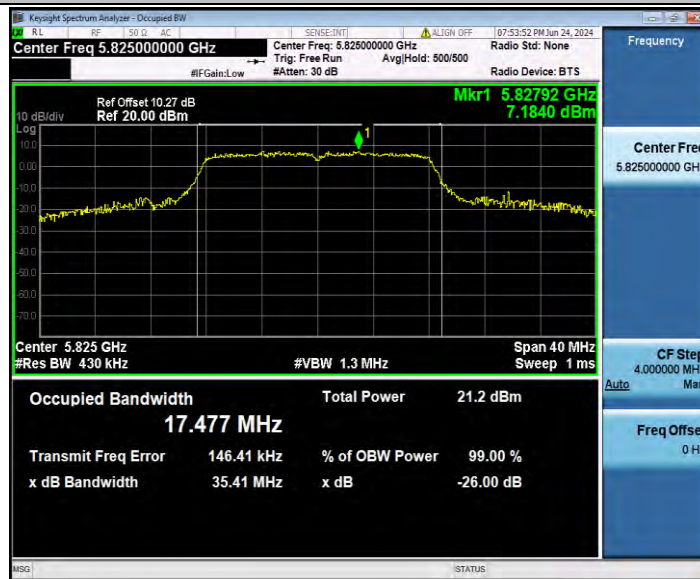
11AC20SISO_Ant1_5745



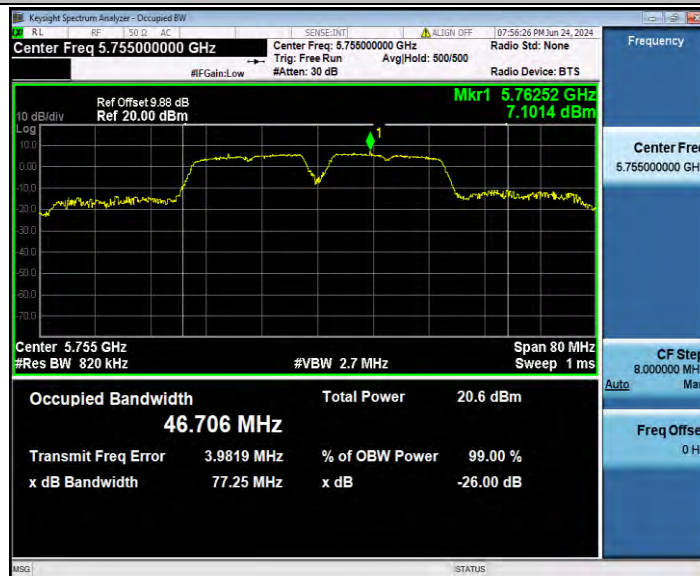
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

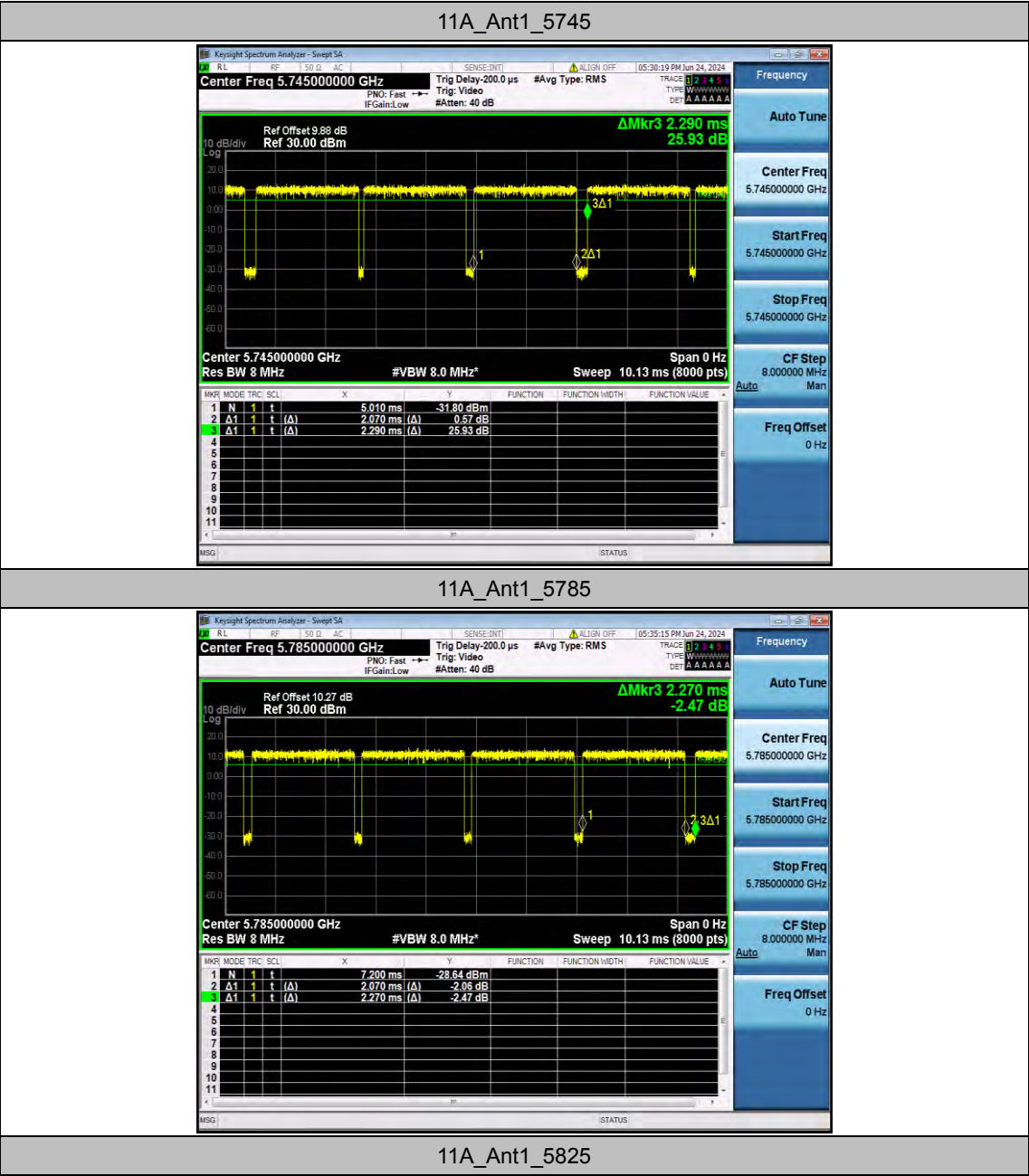


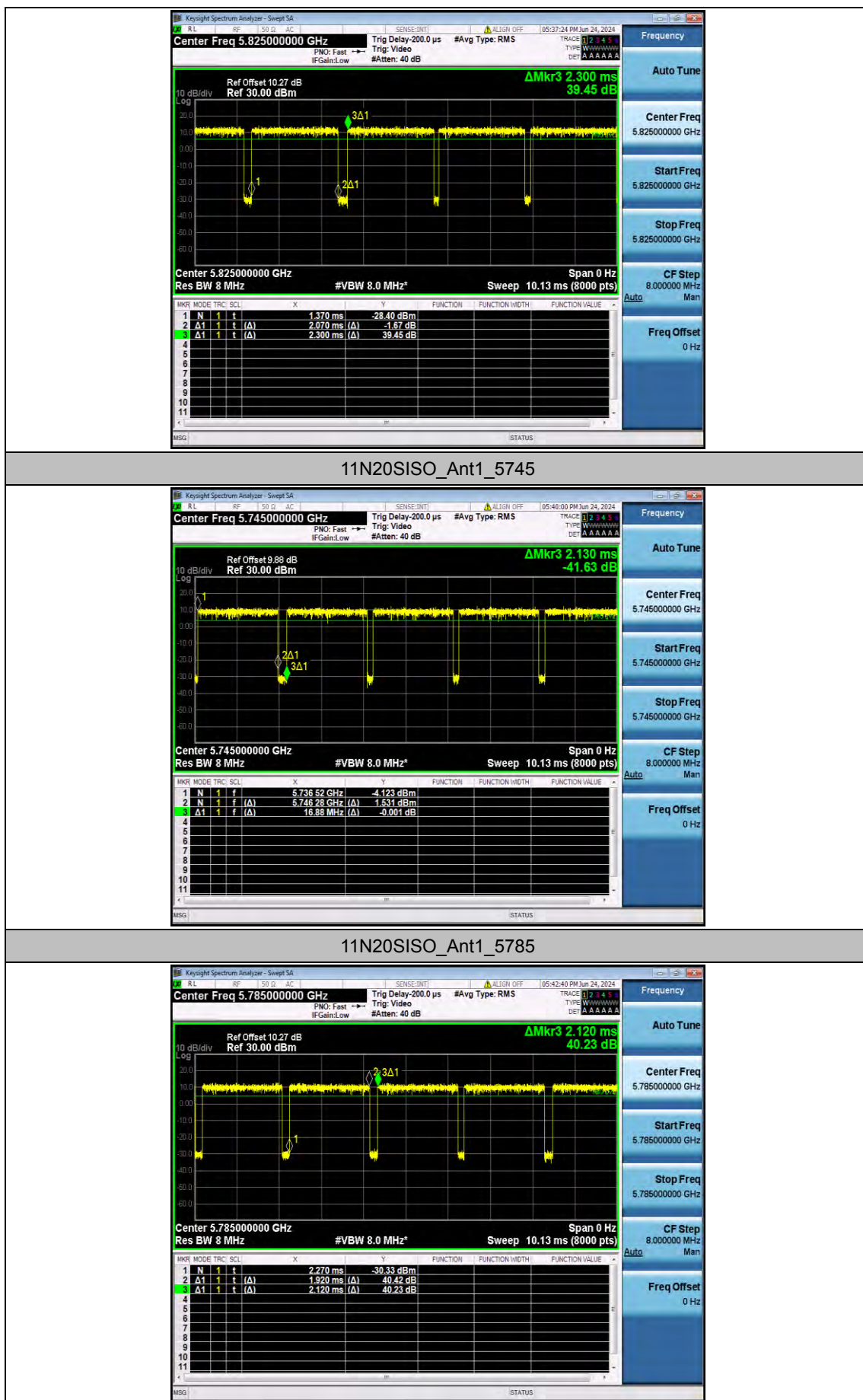
Appendix E.3: Duty Cycle

Test Result

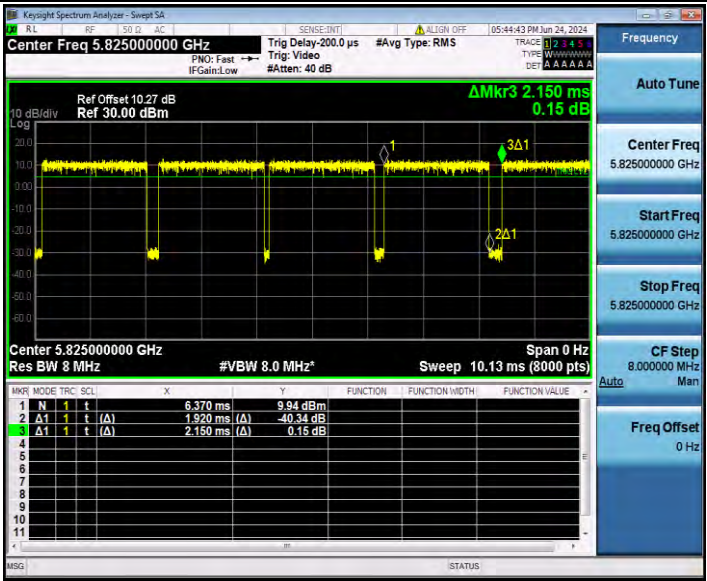
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	2.07	2.29	90.39	0.44	0.48
		5785	2.07	2.27	91.19	0.40	0.48
		5825	2.07	2.30	90.00	0.46	0.48
11N20SISO	Ant1	5745	1.92	2.13	90.14	0.45	0.52
		5785	1.92	2.12	90.57	0.43	0.52
		5825	1.92	2.15	89.30	0.49	0.52
11N40SISO	Ant1	5755	0.94	1.16	81.03	0.91	1.06
		5795	0.94	1.17	80.34	0.95	1.06
11AC20SISO	Ant1	5745	2.06	2.52	81.75	0.88	0.49
		5785	2.07	2.51	82.47	0.84	0.48
		5825	2.06	2.49	82.73	0.82	0.49
11AC40SISO	Ant1	5755	2.06	2.54	81.10	0.91	0.49
		5795	2.07	2.48	83.47	0.78	0.48

Test Graphs

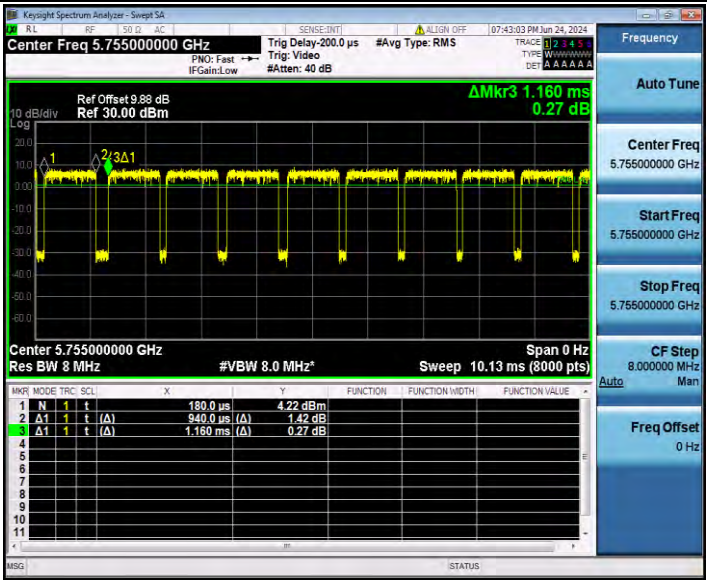




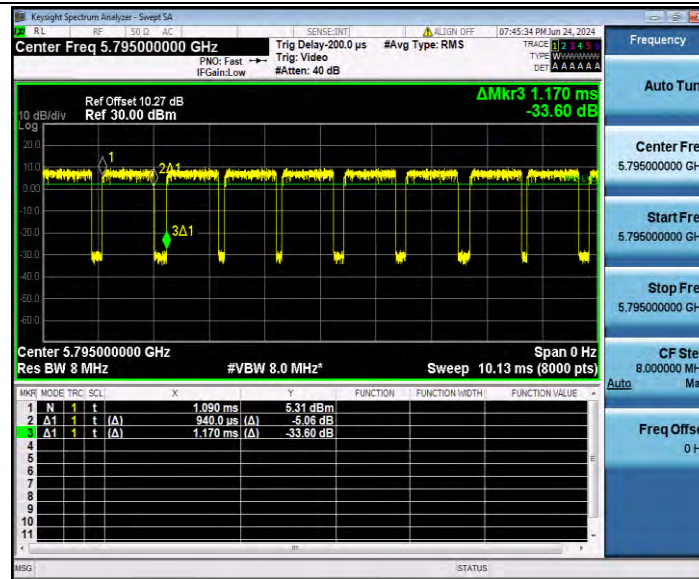
11N20SISO_Ant1_5825



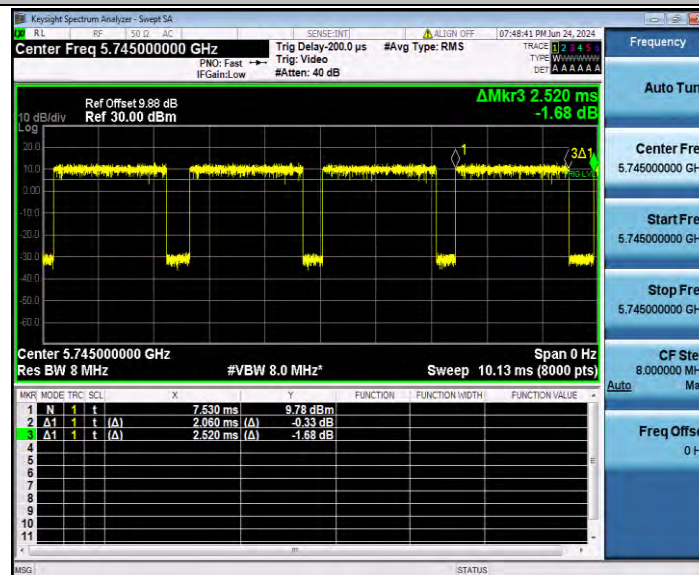
11N40SISO_Ant1_5755



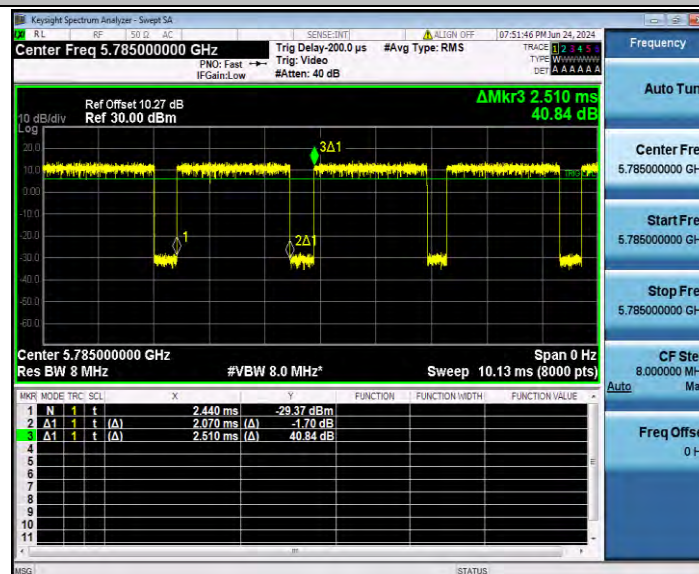
11N40SISO_Ant1_5795

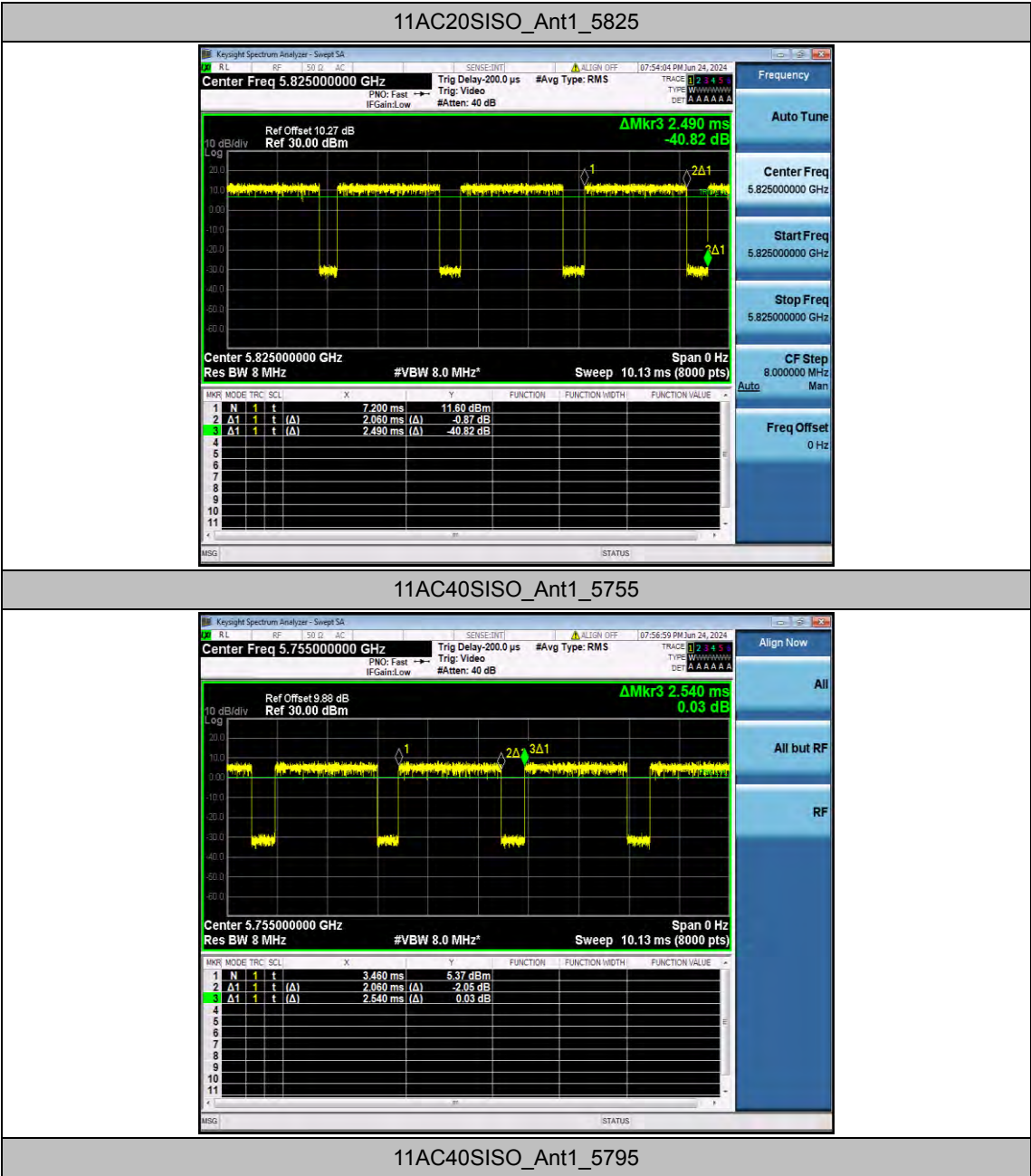


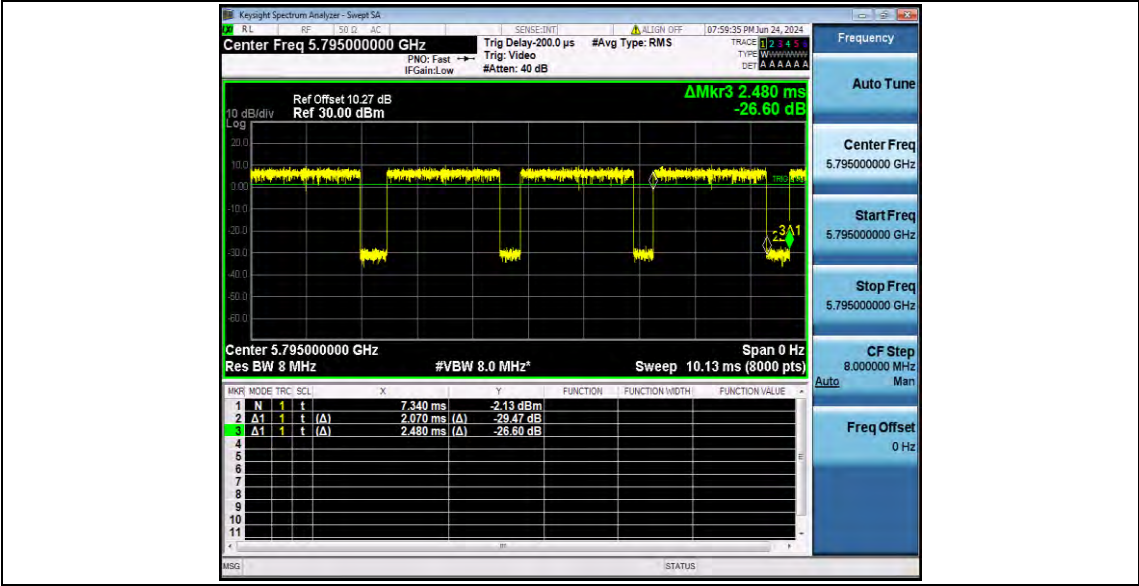
11AC20SISO_Ant1_5745



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	12.97	90.39	0.44	13.41	≤30.00	PASS
		5785	13.92	91.19	0.40	14.32	≤30.00	PASS
		5825	13.93	90.00	0.46	14.39	≤30.00	PASS
11N20SISO	Ant1	5745	11.85	90.14	0.45	12.30	≤30.00	PASS
		5785	12.71	90.57	0.43	13.14	≤30.00	PASS
		5825	12.95	89.30	0.49	13.44	≤30.00	PASS
11N40SISO	Ant1	5755	11.75	81.03	0.91	12.66	≤30.00	PASS
		5795	12.80	80.34	0.95	13.75	≤30.00	PASS
11AC20SISO	Ant1	5745	12.61	81.75	0.88	13.49	≤30.00	PASS
		5785	13.65	82.47	0.84	14.49	≤30.00	PASS
		5825	13.77	82.73	0.82	14.59	≤30.00	PASS
11AC40SISO	Ant1	5755	12.45	81.10	0.91	13.36	≤30.00	PASS
		5795	13.27	83.47	0.78	14.05	≤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	-0.66	≤30.00	PASS
		5785	0.39	≤30.00	PASS
		5825	0.49	≤30.00	PASS
11N20SISO	Ant1	5745	-2.08	≤30.00	PASS
		5785	-0.98	≤30.00	PASS
		5825	-0.78	≤30.00	PASS
11N40SISO	Ant1	5755	-4.23	≤30.00	PASS
		5795	-3.11	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.27	≤30.00	PASS
		5785	0.63	≤30.00	PASS
		5825	0.74	≤30.00	PASS
11AC40SISO	Ant1	5755	-2.82	≤30.00	PASS
		5795	-1.88	≤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



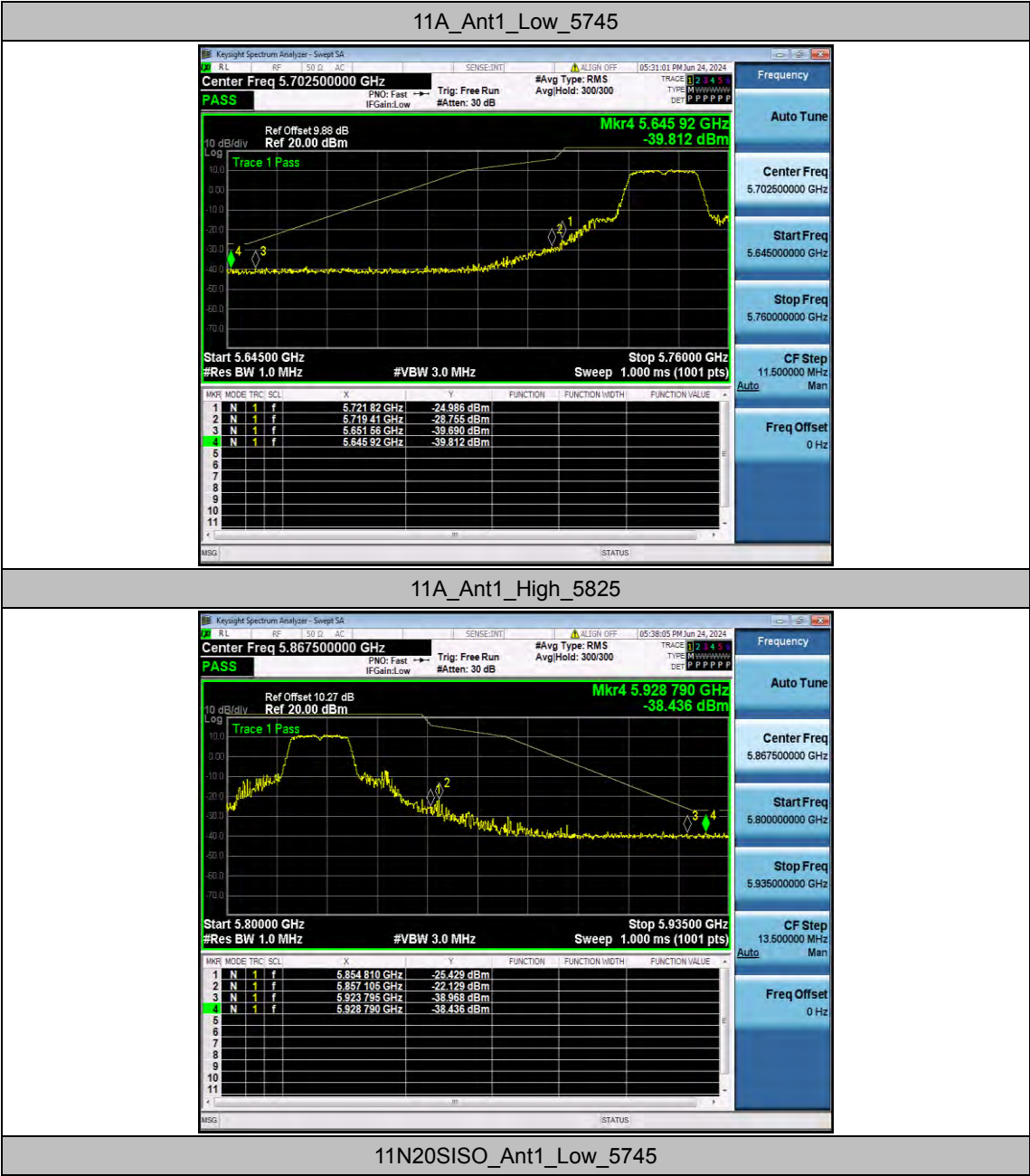
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.69	≤-25.85	PASS
				5700~5720	-28.76	≤15.43	PASS
				5720~5725	-24.99	≤19.75	PASS
				5760~5650	-39.81	≤-27	PASS
		High	5825	5850~5855	-25.43	≤16.03	PASS
				5855~5875	-22.13	≤15.01	PASS
				5875~5925	-38.97	≤-26.11	PASS
				5925~5935	-38.44	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-41.29	≤-26.96	PASS
				5700~5720	-29.92	≤15.08	PASS
				5720~5725	-27.61	≤17.13	PASS
				5760~5650	-38.79	≤-27	PASS
		High	5825	5850~5855	-25.75	≤16.03	PASS
				5855~5875	-25	≤15.43	PASS
				5875~5925	-37.98	≤-26.31	PASS
				5925~5935	-38.66	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.55	≤-26.70	PASS
				5700~5720	-23.05	≤14.94	PASS
				5720~5725	-24.29	≤15.74	PASS
				5780~5650	-39.51	≤-27	PASS
		High	5795	5850~5855	-31.44	≤15.66	PASS
				5855~5875	-33.03	≤10.25	PASS
				5875~5925	-39.66	≤-26.59	PASS
				5925~5935	-38.55	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-41.03	≤-26.62	PASS
				5700~5720	-28.73	≤13.44	PASS
				5720~5725	-28.46	≤18.18	PASS
				5760~5650	-38.93	≤-27	PASS
		High	5825	5850~5855	-25.07	≤15.73	PASS
				5855~5875	-23.94	≤14.78	PASS
				5875~5925	-38.79	≤-26.51	PASS
				5925~5935	-37.85	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.01	≤-26.70	PASS
				5700~5720	-13.36	≤15.47	PASS
				5720~5725	-14.73	≤15.74	PASS
				5780~5650	-38.66	≤-27	PASS

		High	5795	5850~5855	-25.29	≤ 16.03	PASS
				5855~5875	-24.38	≤ 14.87	PASS
				5875~5925	-38.28	≤ -26.83	PASS
				5925~5935	-37.17	≤ -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



Appendix E.7: Conducted Spurious Emission

Test Result

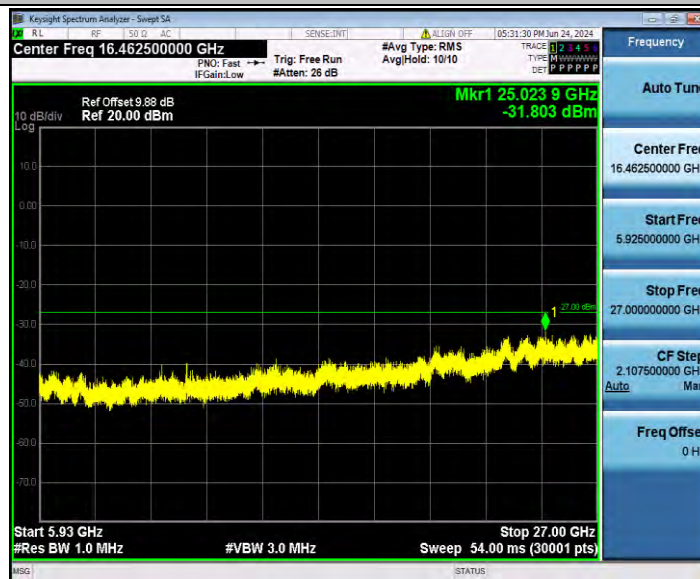
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5493.58	-39.72	≤-27	PASS
			5925~27000	25023.87	-31.8	≤-27	PASS
		5785	30~5650	5450.49	-39.9	≤-27	PASS
			5925~27000	24211.78	-31.74	≤-27	PASS
		5825	30~5650	4944.32	-40.1	≤-27	PASS
			5925~27000	23525.44	-31.46	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5479.53	-40.27	≤-27	PASS
			5925~27000	24114.13	-32.14	≤-27	PASS
		5785	30~5650	4931.95	-39.39	≤-27	PASS
			5925~27000	24958.54	-31.14	≤-27	PASS
		5825	30~5650	5426.32	-38.85	≤-27	PASS
			5925~27000	26546.19	-31.9	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	37.87	-39.04	≤-27	PASS
			5925~27000	25115.19	-32.68	≤-27	PASS
		5795	30~5650	38.06	-37.01	≤-27	PASS
			5925~27000	23620.27	-32.17	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	38.24	-36.92	≤-27	PASS
			5925~27000	23498.04	-32.15	≤-27	PASS
		5785	30~5650	38.06	-37.79	≤-27	PASS
			5925~27000	24300.29	-30.91	≤-27	PASS
		5825	30~5650	5407.59	-39.48	≤-27	PASS
			5925~27000	24935.35	-32.39	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	1739.04	-34.41	≤-27	PASS
			5925~27000	24296.08	-30.74	≤-27	PASS
		5795	30~5650	5551.46	-39.22	≤-27	PASS
			5925~27000	26079.02	-31.8	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



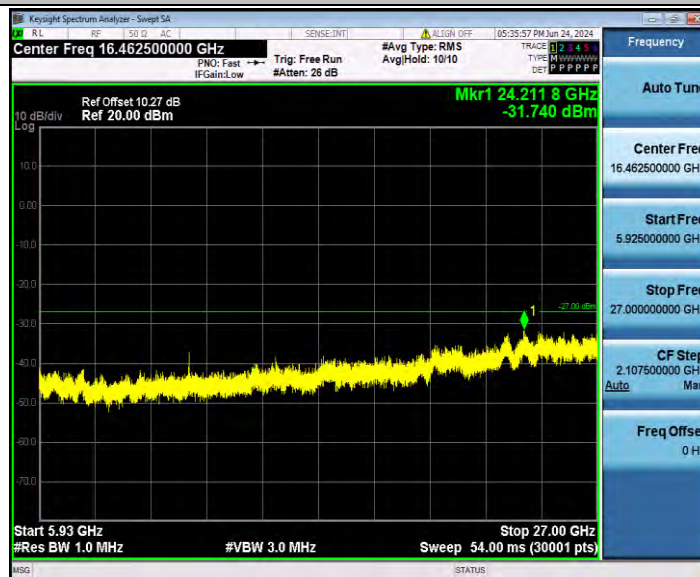
11A_Ant1_5745_5925~27000



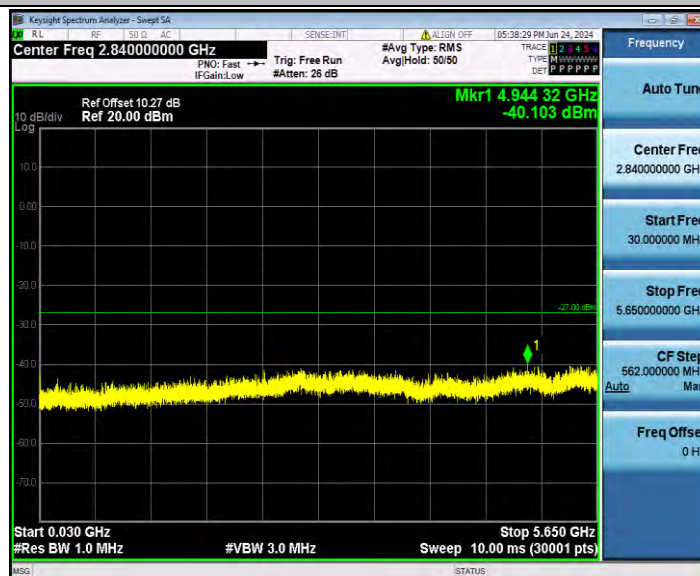
11A_Ant1_5785_30~5650



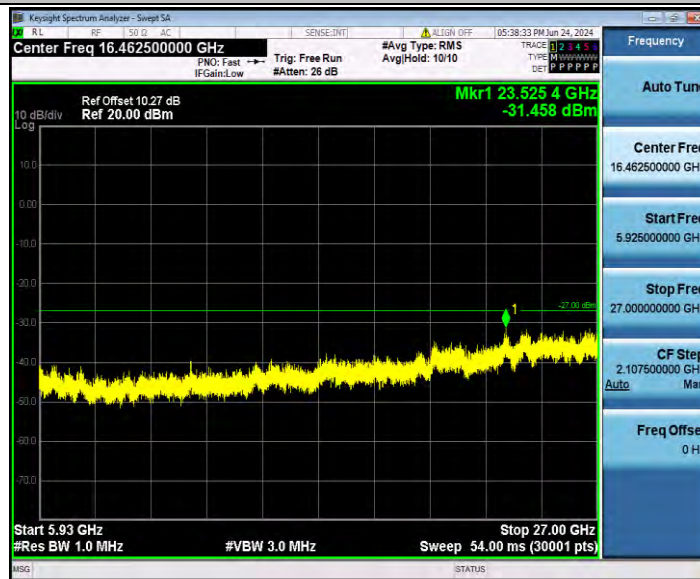
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



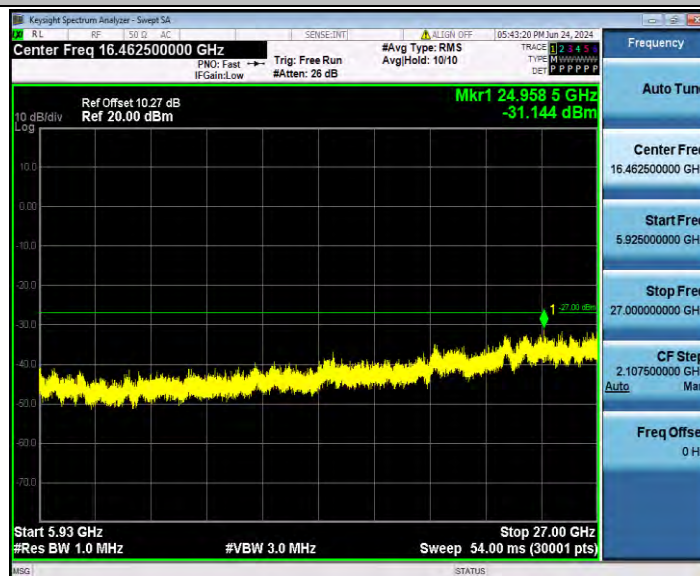
11N20SISO_Ant1_5745_5925~27000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~27000



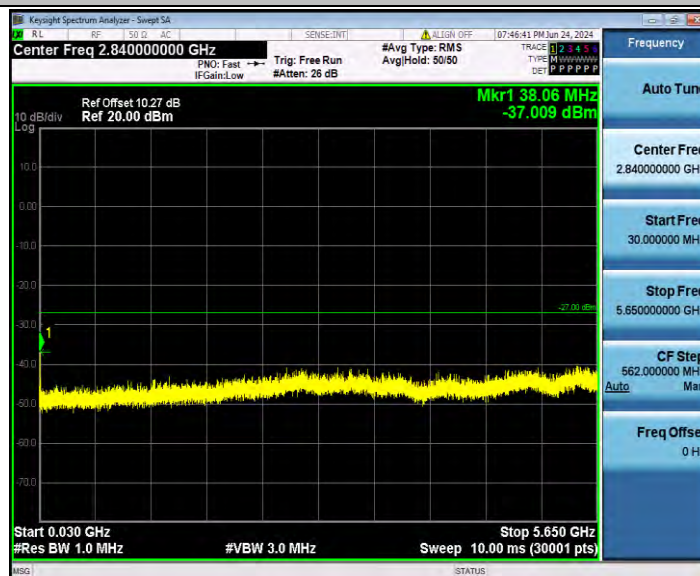
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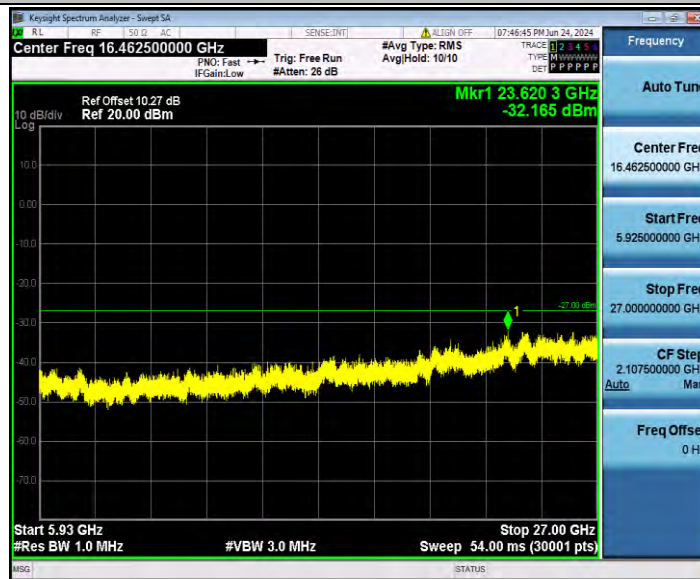
11N40SISO_Ant1_5755_5925~27000



11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~27000



11AC20SISO_Ant1_5745_30~5650



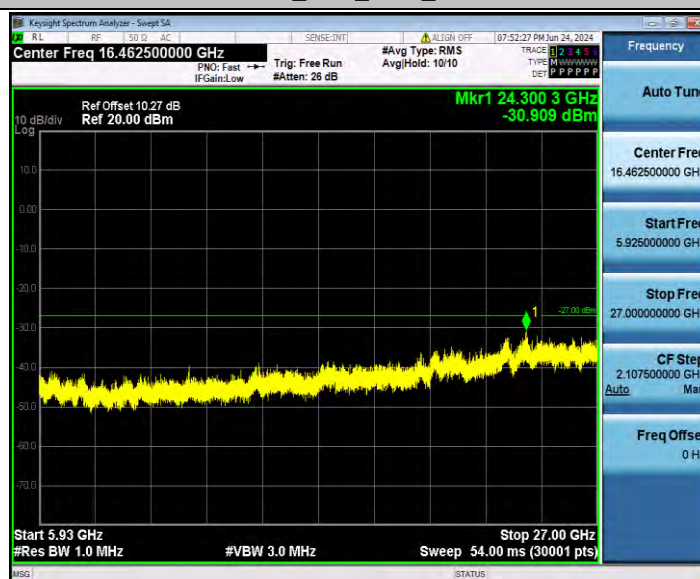
11AC20SISO_Ant1_5745_5925~27000



11AC20SISO_Ant1_5785_30~5650



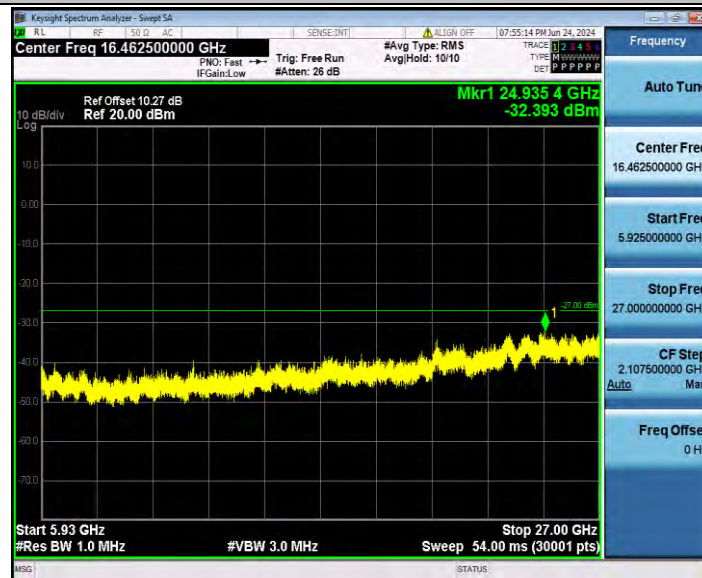
11AC20SISO_Ant1_5785_5925~27000



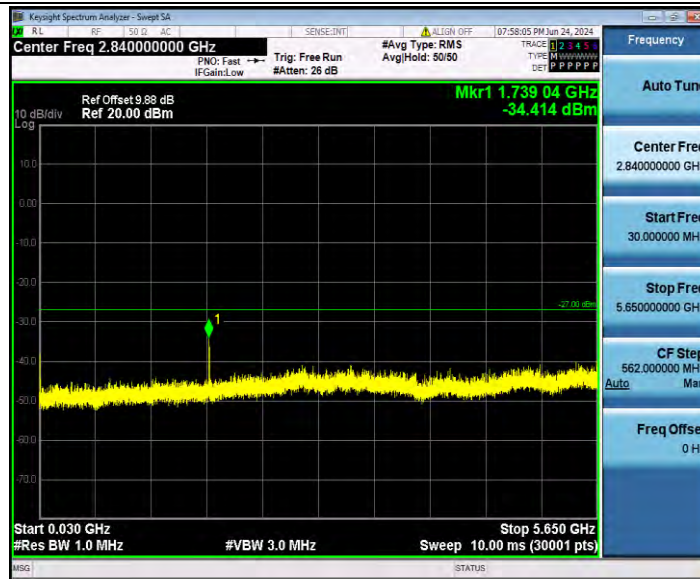
11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~27000



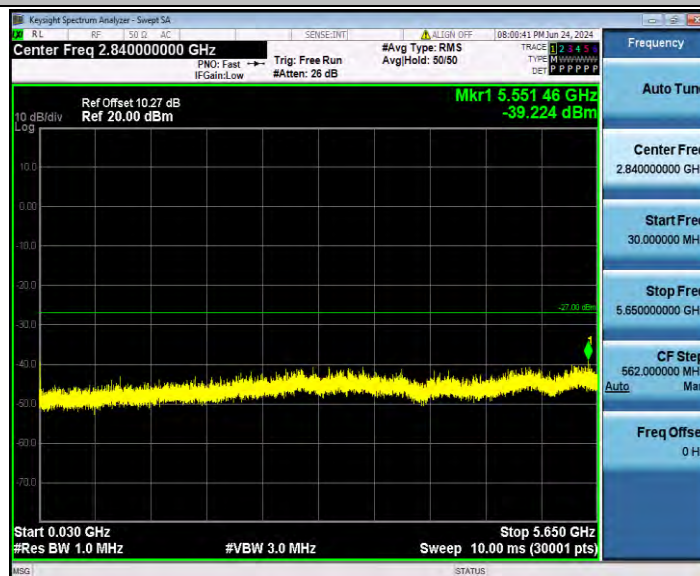
11AC40SISO_Ant1_5755_30~5650

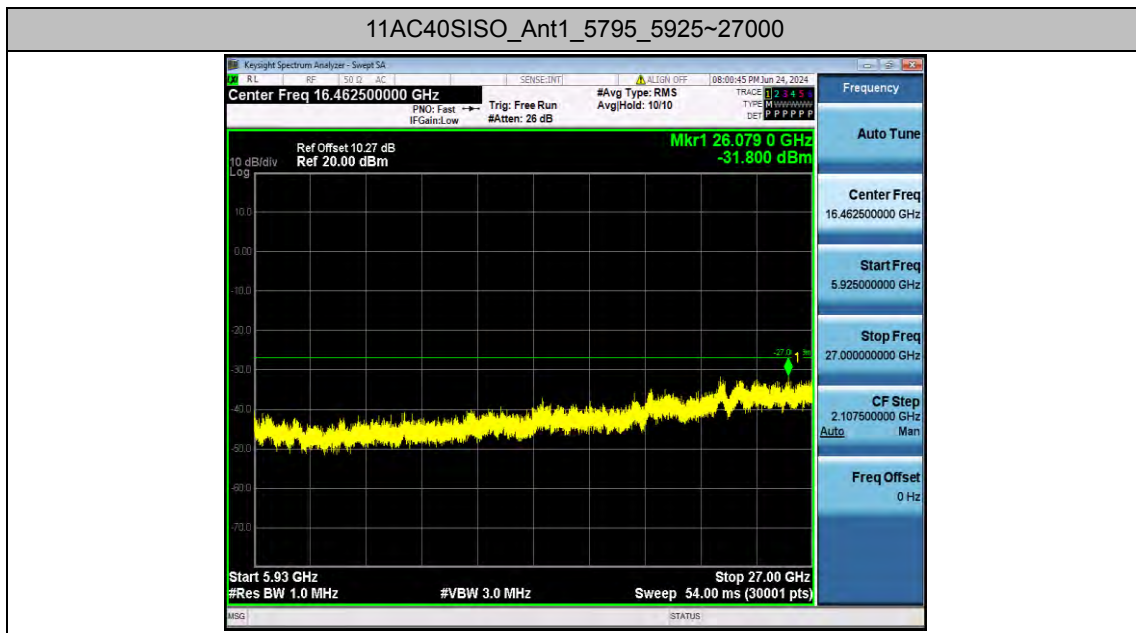


11AC40SISO_Ant1_5755_5925~27000



11AC40SISO_Ant1_5795_30~5650





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	-40.611	≤-27.00	PASS
				Peak	5700.000	-38.81	≤10.00	PASS
				Peak	5720.000	-28.97	≤15.60	PASS
				Peak	5725.000	-23.15	≤27.00	PASS
		High	5825	Peak	5850.000	-22.346	≤27.00	PASS
				Peak	5855.000	-22.76	≤15.60	PASS
				Peak	5875.000	-34.75	≤10.00	PASS
				Peak	5925.000	-38.23	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-39.734	≤-27.00	PASS
				Peak	5700.000	-38.88	≤10.00	PASS
				Peak	5720.000	-31.44	≤15.60	PASS
				Peak	5725.000	-25.22	≤27.00	PASS
		High	5825	Peak	5850.000	-27.705	≤27.00	PASS
				Peak	5855.000	-30.12	≤15.60	PASS
				Peak	5875.000	-38.47	≤10.00	PASS
				Peak	5925.000	-38.36	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-38.914	≤-27.00	PASS
				Peak	5700.000	-36.56	≤10.00	PASS
				Peak	5720.000	-26.9	≤15.60	PASS
				Peak	5725.000	-25.28	≤27.00	PASS
		High	5795	Peak	5850.000	-30.757	≤27.00	PASS
				Peak	5855.000	-34.45	≤15.60	PASS
				Peak	5875.000	-39.22	≤10.00	PASS
				Peak	5925.000	-39.46	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-41.821	≤-27.00	PASS
				Peak	5700.000	-40.55	≤10.00	PASS
				Peak	5720.000	-28.37	≤15.60	PASS
				Peak	5725.000	-21.73	≤27.00	PASS
		High	5825	Peak	5850.000	-24.61	≤27.00	PASS
				Peak	5855.000	-26.56	≤15.60	PASS
				Peak	5875.000	-37.07	≤10.00	PASS
				Peak	5925.000	-38.8	≤-27.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-38.535	≤-27.00	PASS
				Peak	5700.000	-29.45	≤10.00	PASS
				Peak	5720.000	-11.01	≤15.60	PASS
				Peak	5725.000	-16.38	≤27.00	PASS

		High	5795	Peak	5850.000	-26.611	≤27.00	PASS
				Peak	5855.000	-27.18	≤15.60	PASS
				Peak	5875.000	-32.18	≤10.00	PASS
				Peak	5925.000	-37.87	≤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



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

