

Case No. : <u>GTS20241101002-1-04</u>	
Ambient Condition: <u>22</u> °C, <u>49</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.12.13</u>	Test Engineer: <u>Evan ouyang</u>

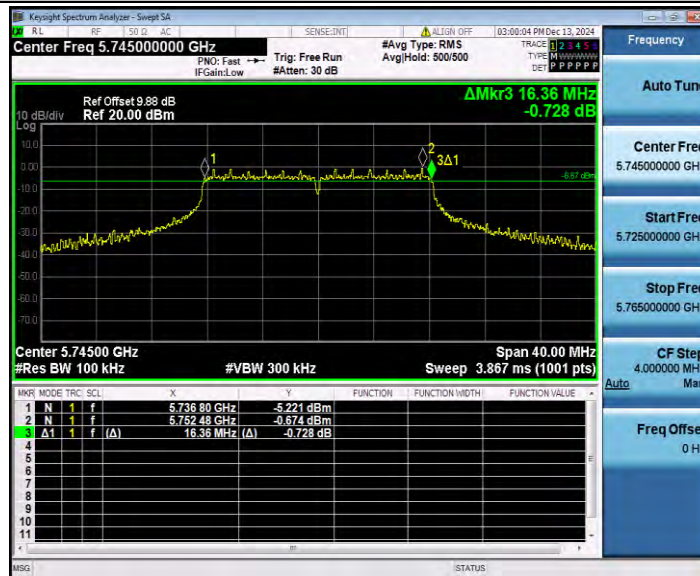
Appendix G.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
		5785	16.360	5776.800	5793.160	0.5	PASS
		5825	16.320	5816.800	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.600	5736.160	5753.760	0.5	PASS
		5785	17.600	5776.160	5793.760	0.5	PASS
		5825	17.600	5816.160	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.160	5737.000	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.600	5776.160	5793.760	0.5	PASS
		5825	17.600	5816.160	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC80SISO	Ant1	5775	75.680	5737.400	5813.080	0.5	PASS
11AX20SISO	Ant1	5745	19.000	5735.480	5754.480	0.5	PASS
		5785	19.080	5775.440	5794.520	0.5	PASS
		5825	18.960	5815.480	5834.440	0.5	PASS
11AX40SISO	Ant1	5755	38.080	5735.960	5774.040	0.5	PASS
		5795	38.000	5775.960	5813.960	0.5	PASS
11AX80SISO	Ant1	5775	76.480	5737.400	5813.880	0.5	PASS

Test Graphs B4

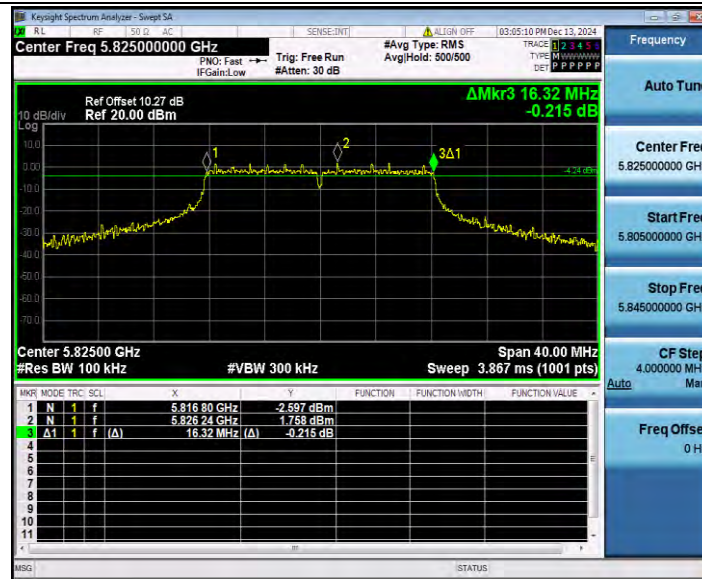
11A_Ant1_5745



11A_Ant1_5785



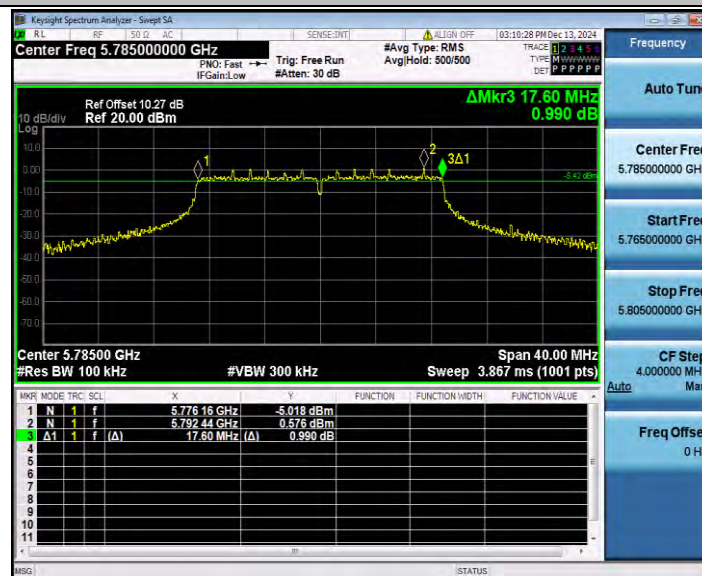
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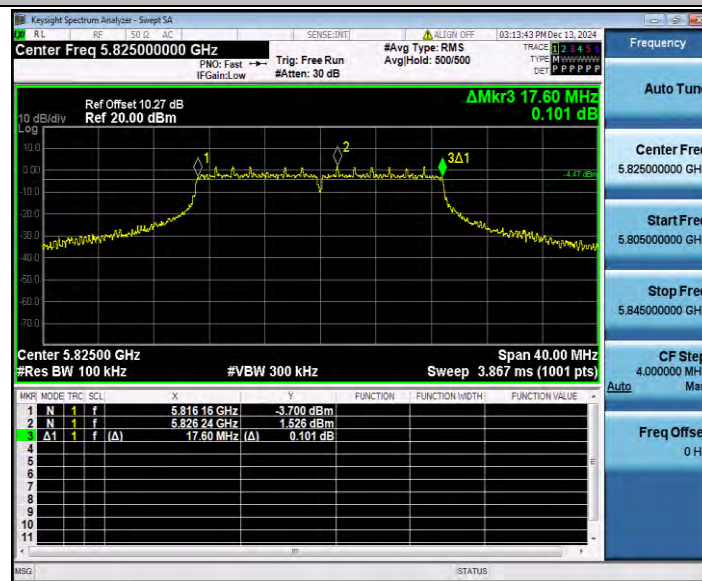
11N20SISO_Ant1_5745



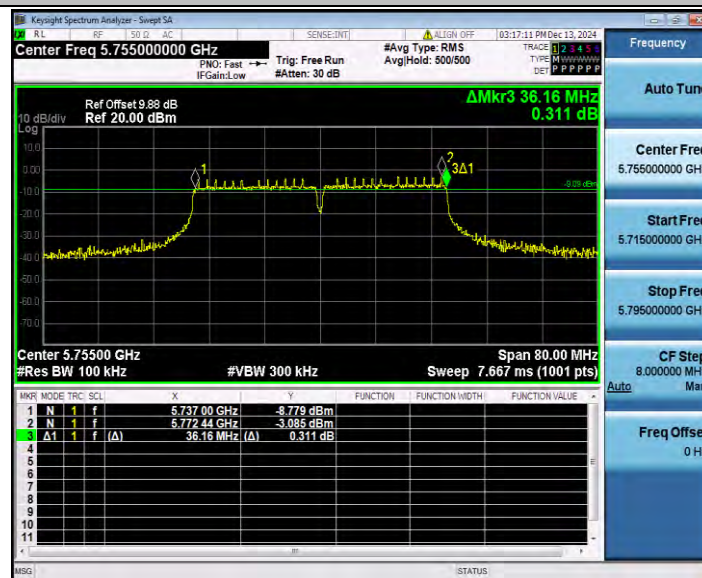
11N20SISO_Ant1_5785



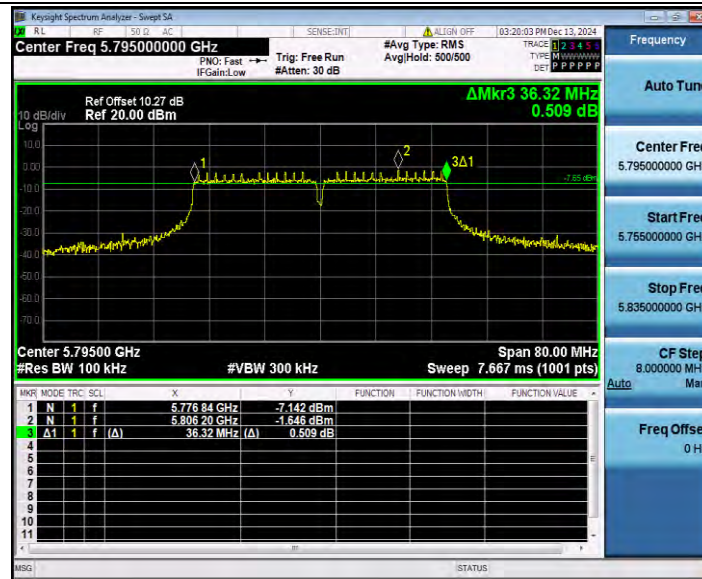
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



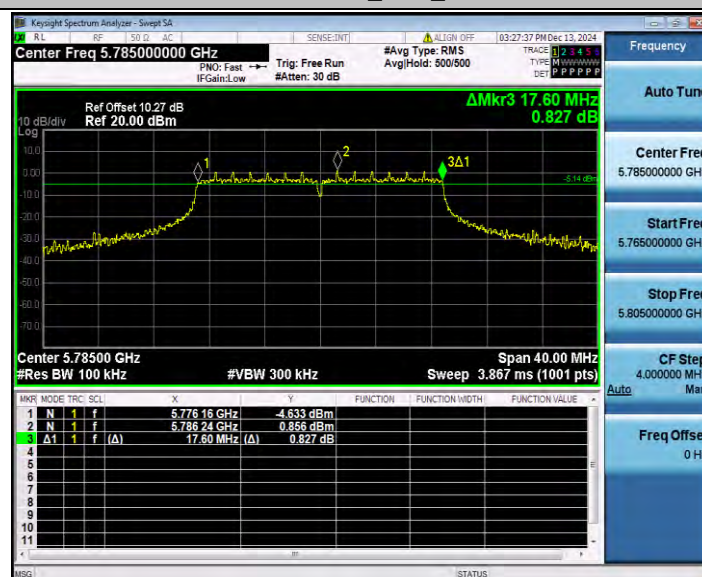
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



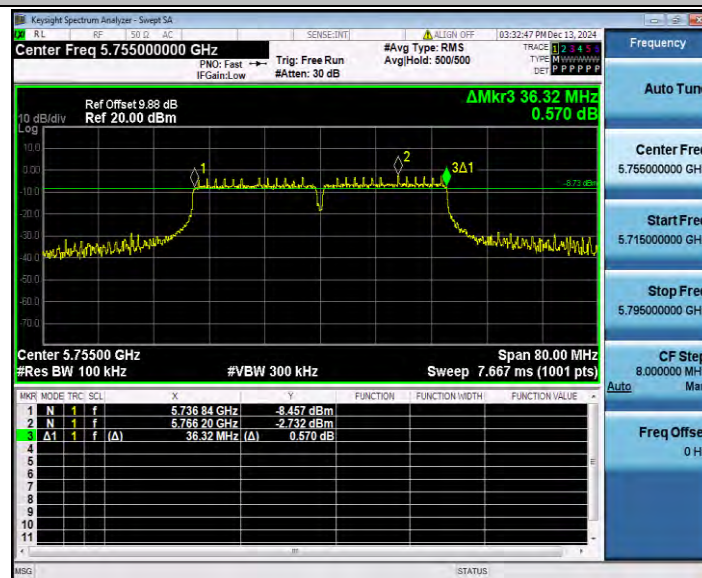
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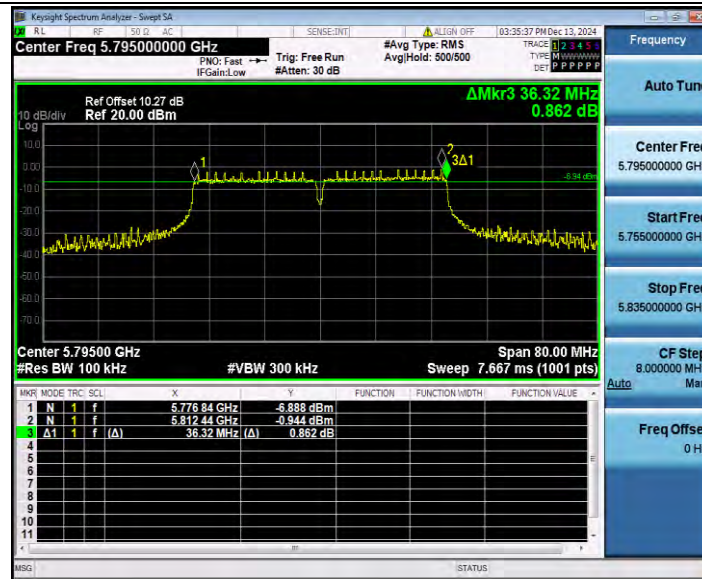
11AC20SISO_Ant1_5825



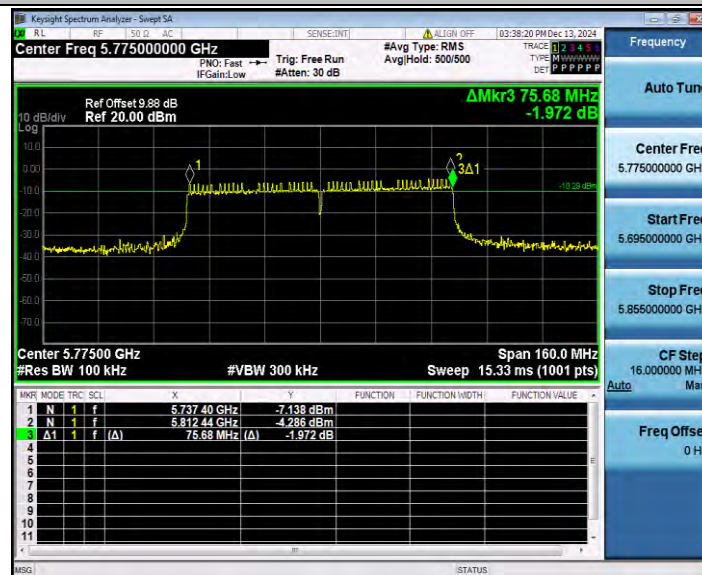
11AC40SISO_Ant1_5755



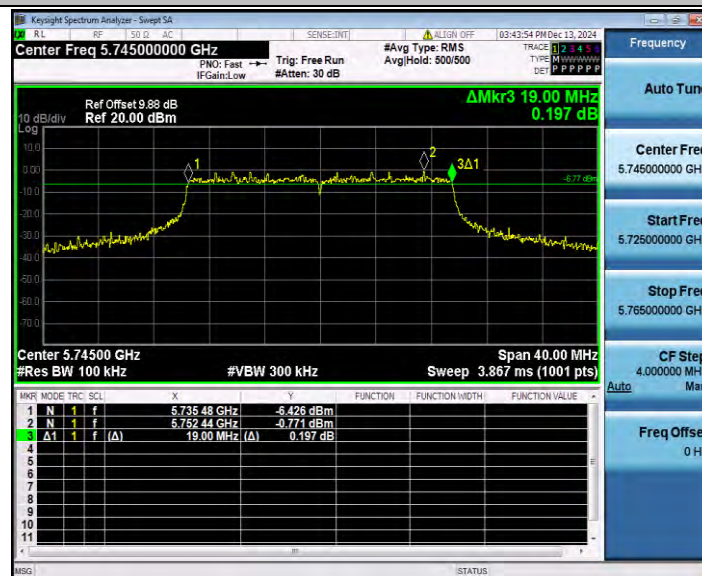
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



11AX20SISO_Ant1_5745



Keysight Spectrum Analyzer - Swept SA

Center Freq 5.785000000 GHz

Ref Offset 10.27 dB

Ref 20.00 dBm

DMKr3 19.08 MHz

-0.350 dB

Center 5.785000000 GHz

Res BW 100 kHz

VBW 300 kHz

Span 40.00 MHz

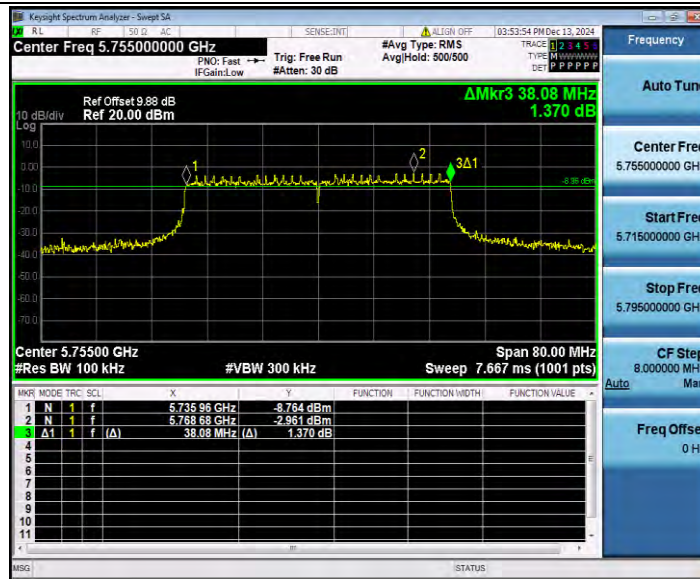
Sweep 1.001 s

MARK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.775 44 GHz	-4.638 dBm			
2	N	1	f	5.792 48 GHz	0.944 dBm			
3	A1	1	f (Δ)	19.08 MHz (Δ)	-0.350 dB			

The screenshot displays a Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 5.825000000 GHz. The span is 40.00 MHz. The resolution bandwidth (Res BW) is 100 kHz. The video bandwidth (VBW) is 300 kHz. The sweep time is 3.867 ms. The signal is identified as DMkr3 at 18.96 MHz with a level of 0.300 dB. The plot shows a signal with a peak at 18.96 MHz and a level of 0.300 dB. The plot also shows a reference level at 20.00 dBm. The plot is labeled with '1', '2', and '3d1'.

MRK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.815 48 GHz	-3.478 dBm			
2	N	1	f	5.817 48 GHz	2.164 dBm			
3	A1	1	f (Δ)	18.96 MHz (Δ)	0.300 dB			

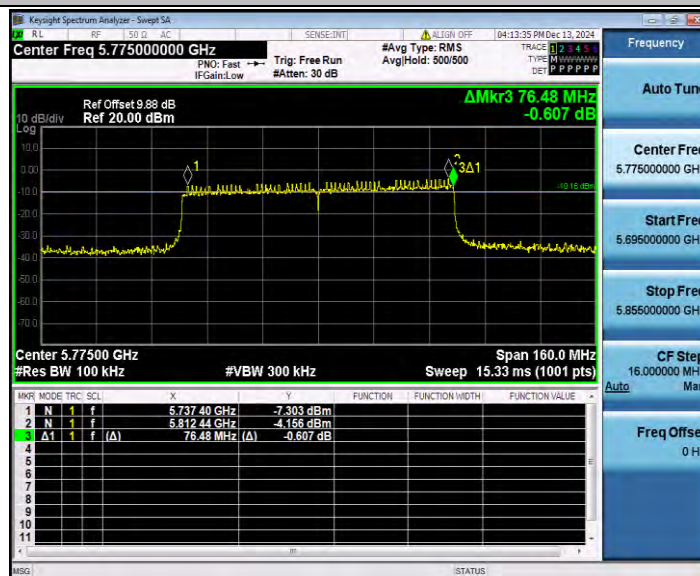
11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5775



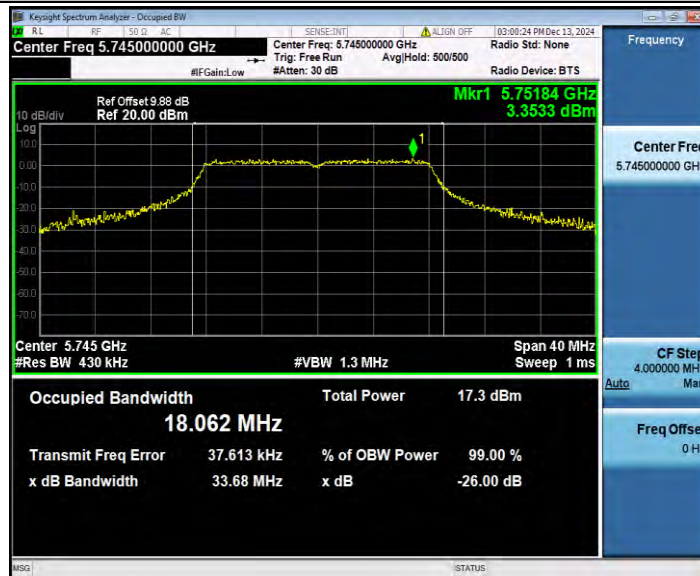
Appendix G.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	18.062	5736.0066	5754.0686	---	---
		5785	18.195	5775.9127	5794.1077	---	---
		5825	18.102	5815.8488	5833.9508	---	---
11N20SISO	Ant1	5745	19.199	5735.4512	5754.6502	---	---
		5785	19.154	5775.5025	5794.6565	---	---
		5825	19.095	5815.3775	5834.4725	---	---
11N40SISO	Ant1	5755	37.999	5736.2198	5774.2188	---	---
		5795	37.889	5776.2747	5814.1637	---	---
11AC20SISO	Ant1	5745	19.125	5735.5114	5754.6364	---	---
		5785	19.157	5775.4883	5794.6453	---	---
		5825	19.081	5815.4062	5834.4872	---	---
11AC40SISO	Ant1	5755	38.121	5736.1606	5774.2816	---	---
		5795	38.009	5776.1475	5814.1565	---	---
11AC80SISO	Ant1	5775	77.544	5736.7146	5814.2586	---	---
11AX20SISO	Ant1	5745	19.746	5735.2122	5754.9582	---	---
		5785	19.698	5775.1731	5794.8711	---	---
		5825	19.647	5815.1446	5834.7916	---	---
11AX40SISO	Ant1	5755	38.592	5735.8073	5774.3993	---	---
		5795	38.791	5775.6643	5814.4553	---	---
11AX80SISO	Ant1	5775	78.654	5735.9988	5814.6528	---	---

Test Graphs

11A_Ant1_5745



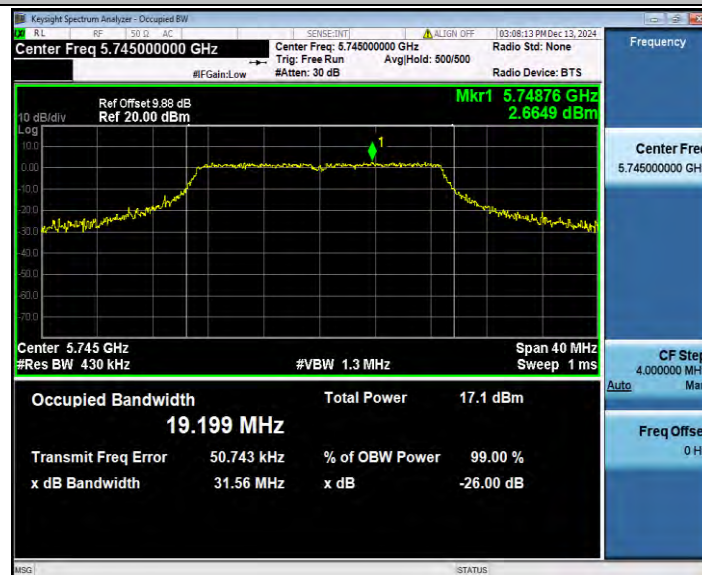
11A_Ant1_5785



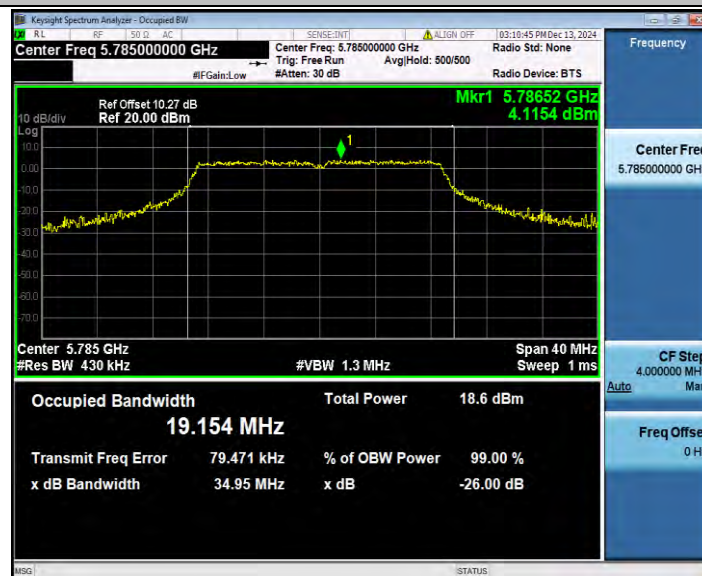
11A_Ant1_5825



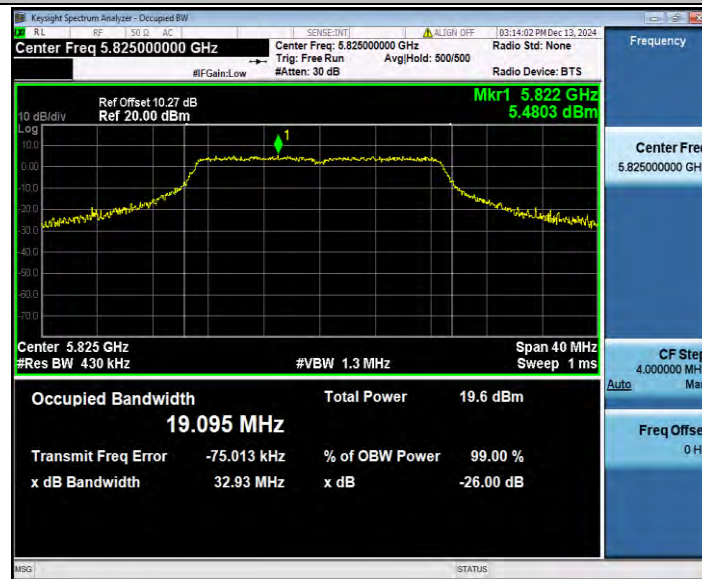
11N20SISO_Ant1_5745



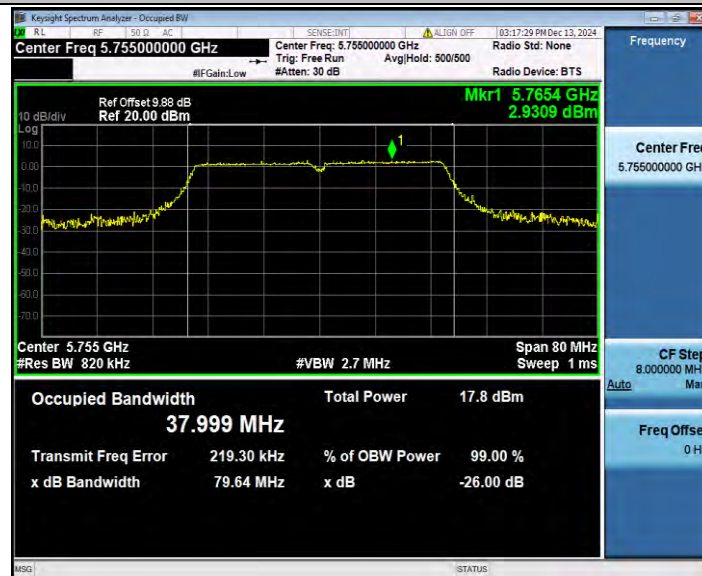
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



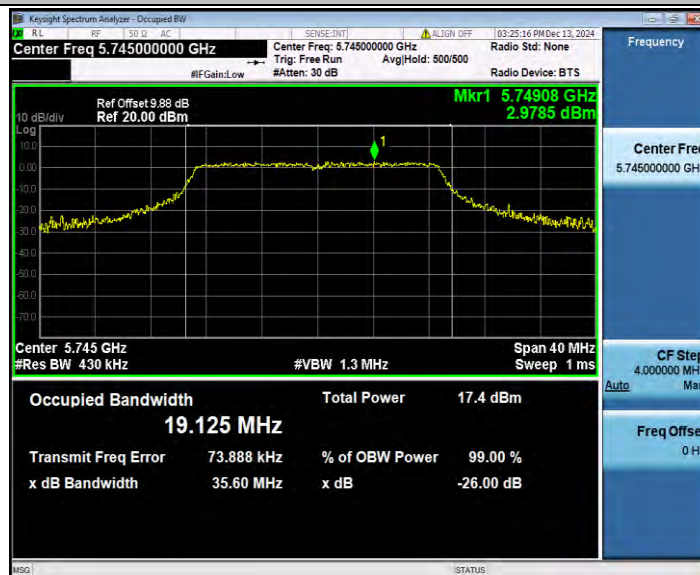
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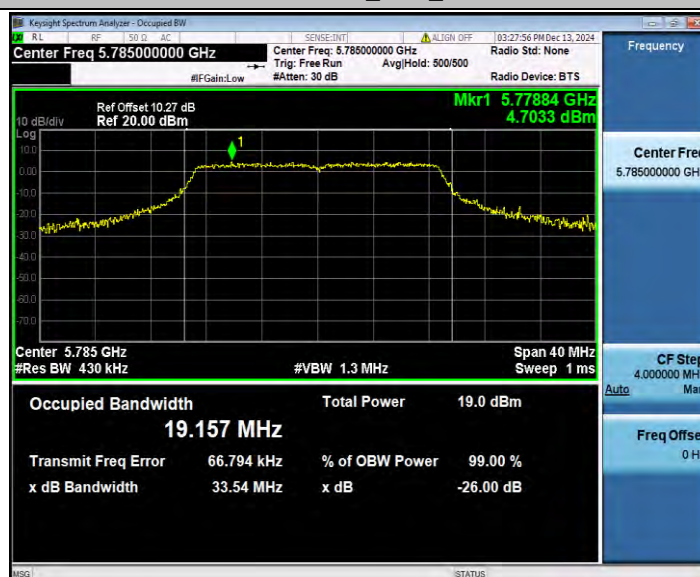
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



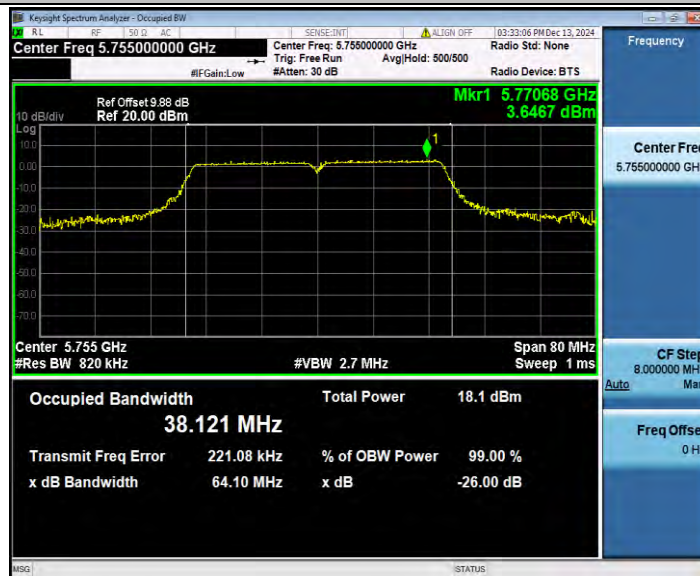
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



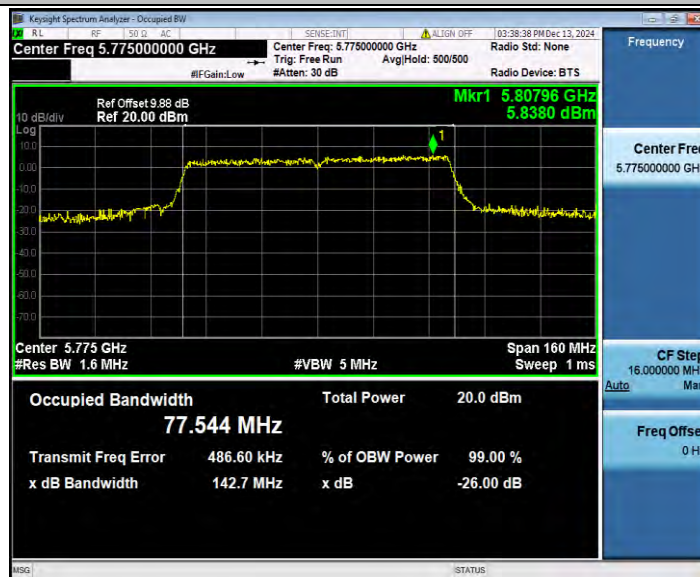
11AC40SISO_Ant1_5755



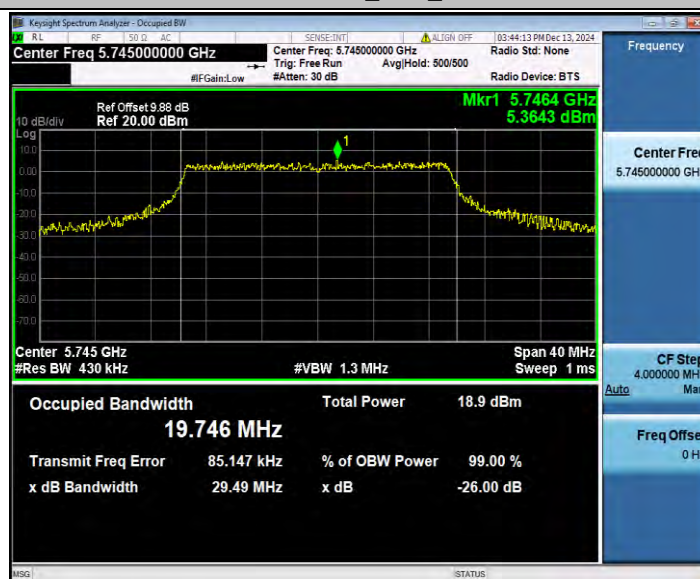
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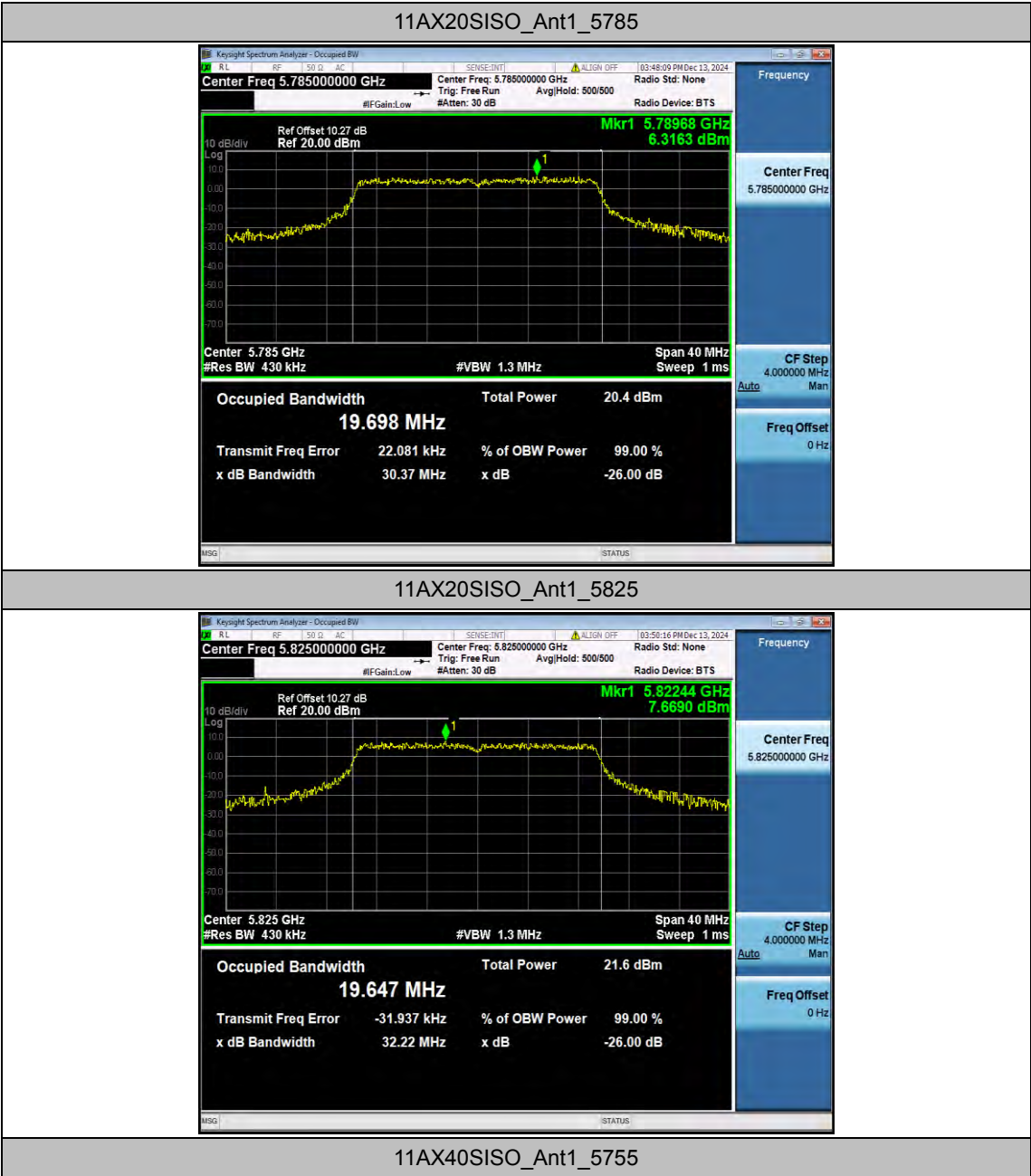


11AC80SISO_Ant1_5775



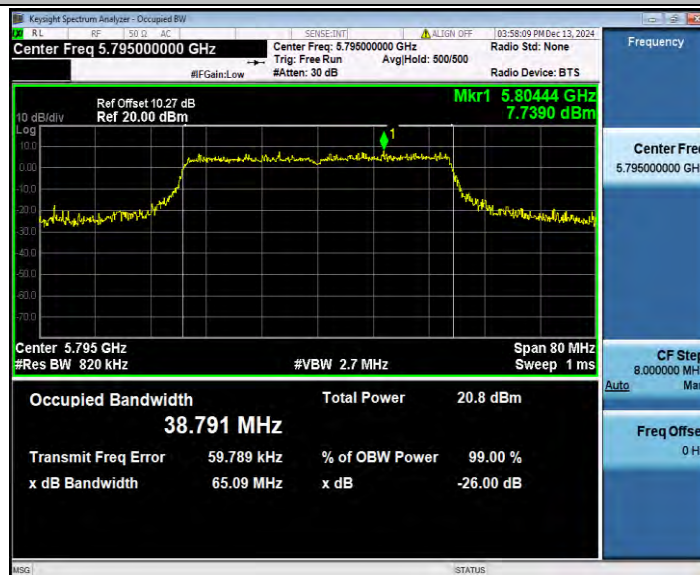
11AX20SISO_Ant1_5745



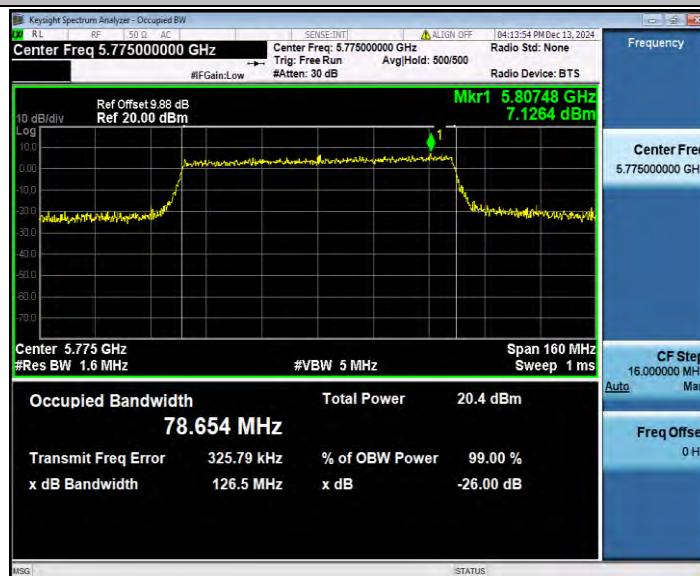




11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5775

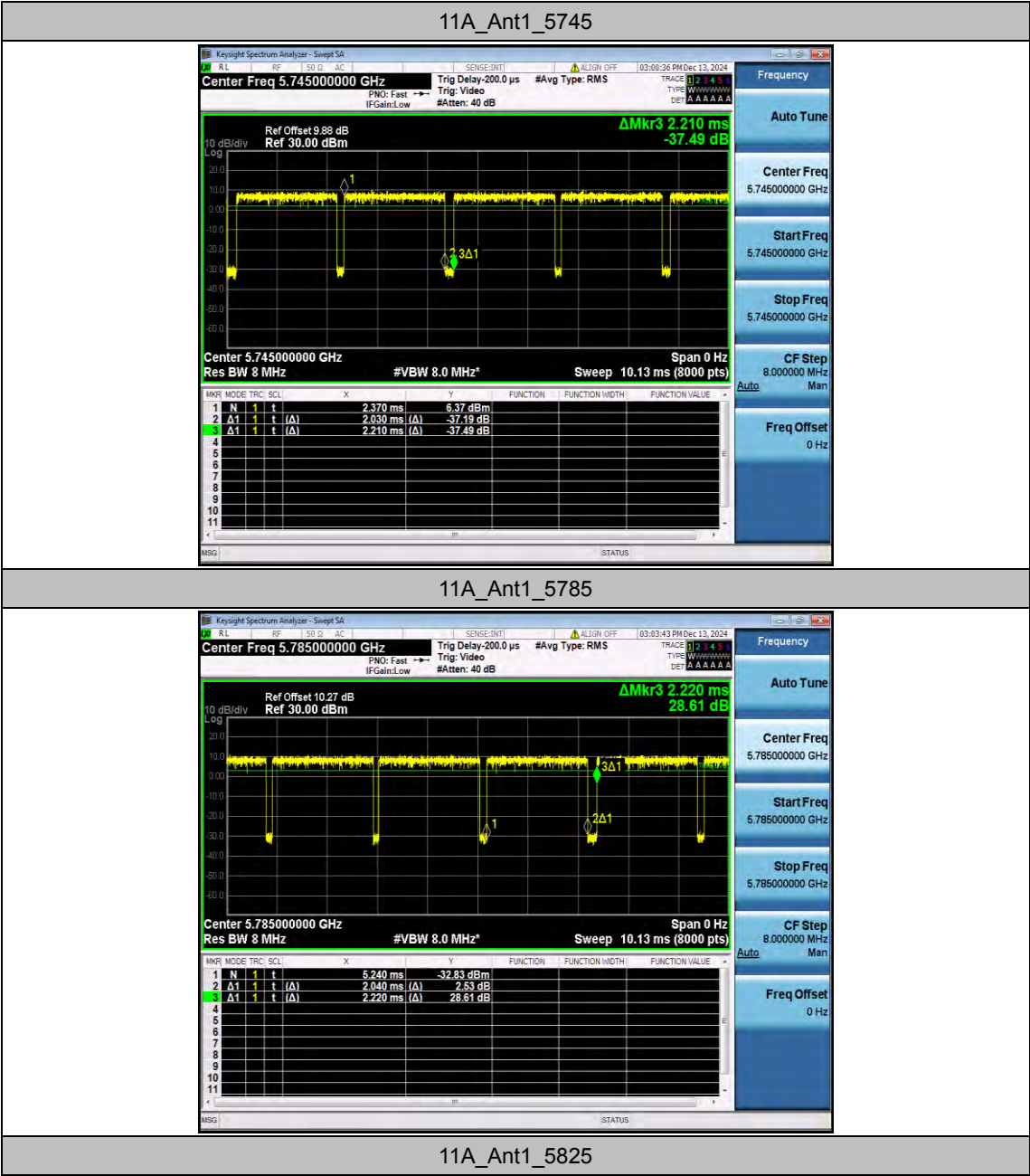


Appendix G.3: Duty Cycle

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	2.03	2.21	91.86	0.37	0.49
		5785	2.04	2.22	91.89	0.37	0.49
		5825	2.04	2.25	90.67	0.43	0.49
11N20SISO	Ant1	5745	1.90	2.12	89.62	0.48	0.53
		5785	1.89	2.12	89.15	0.50	0.53
		5825	1.90	2.11	90.05	0.46	0.53
11N40SISO	Ant1	5755	0.93	1.11	83.78	0.77	1.08
		5795	0.93	1.39	66.91	1.75	1.08
11AC20SISO	Ant1	5745	1.90	2.08	91.35	0.39	0.53
		5785	1.90	2.14	88.79	0.52	0.53
		5825	1.90	2.14	88.79	0.52	0.53
11AC40SISO	Ant1	5755	0.93	1.13	82.30	0.85	1.08
		5795	0.93	1.15	80.87	0.92	1.08
11AC80SISO	Ant1	5775	0.46	0.70	65.71	1.82	2.17
11AX20SISO	Ant1	5745	1.46	1.65	88.48	0.53	0.68
		5785	1.46	1.64	89.02	0.51	0.68
		5825	1.47	1.67	88.02	0.55	0.68
11AX40SISO	Ant1	5755	0.77	0.98	78.57	1.05	1.30
		5795	0.76	0.99	76.77	1.15	1.32
11AX80SISO	Ant1	5775	0.40	0.62	64.52	1.90	2.50

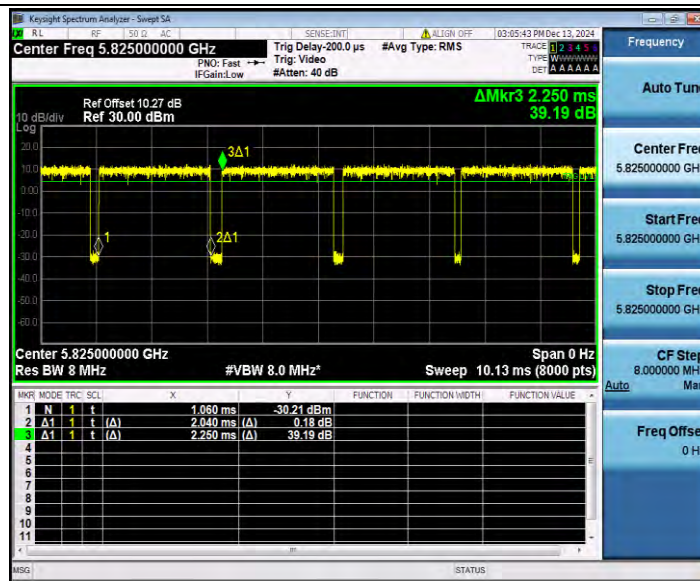
Test Graphs



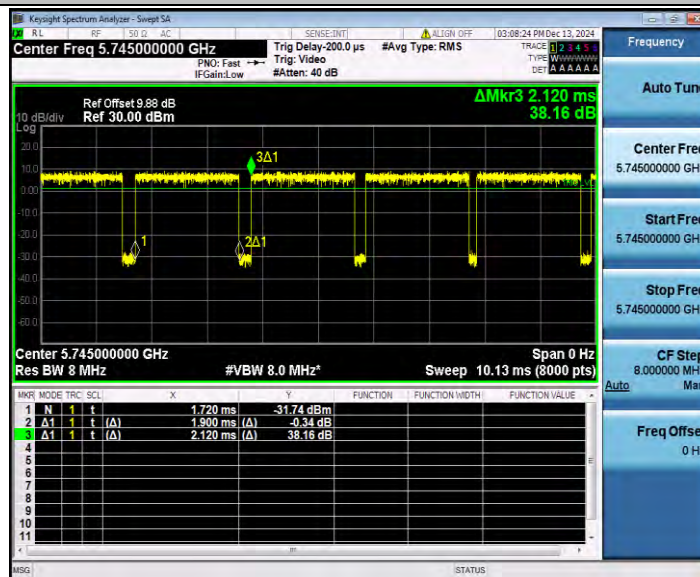
11A_Ant1_5785

Frequency
Auto Tune
Center Freq 5.785000000 GHz
Start Freq 5.785000000 GHz
Stop Freq 5.785000000 GHz
CF Step 8.0000000 MHz
Freq Offset 0 Hz

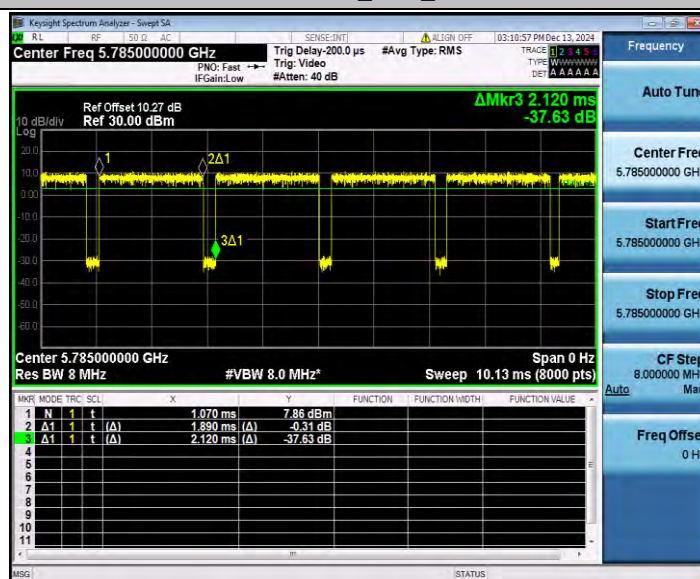
11A_Ant1_5825

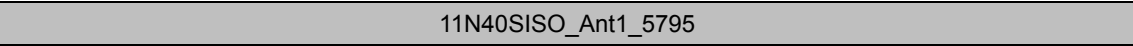
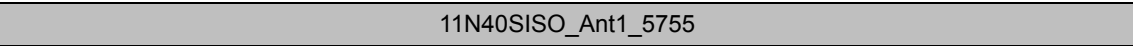


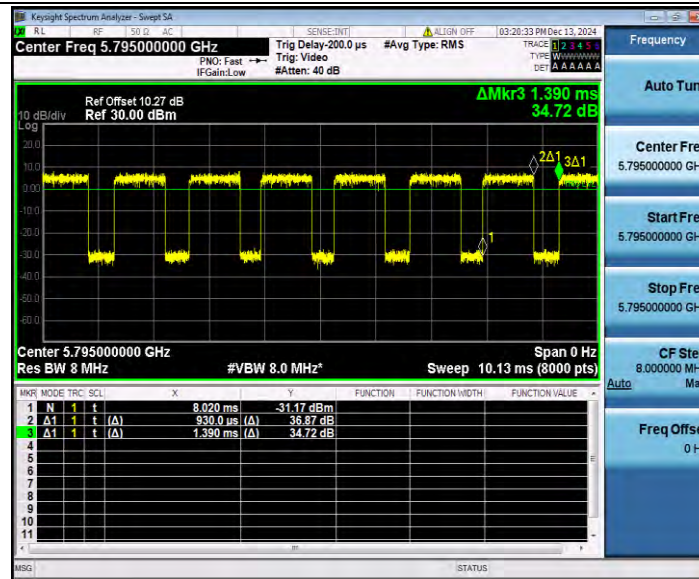
11N20SISO_Ant1_5745



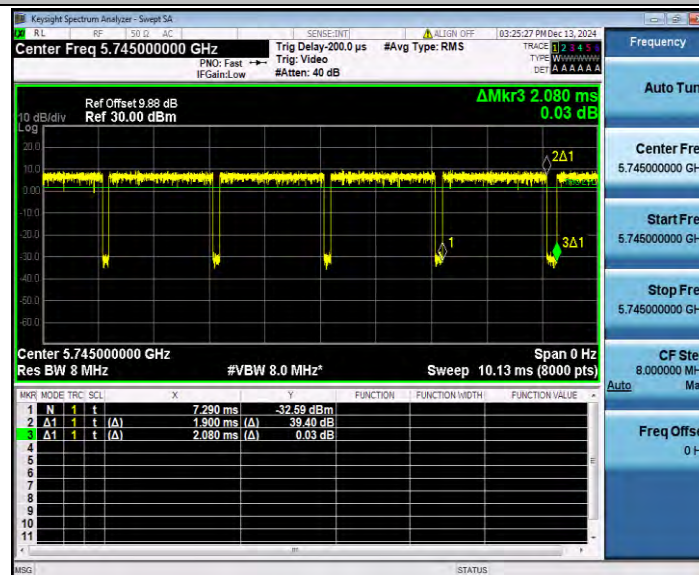
11N20SISO_Ant1_5785



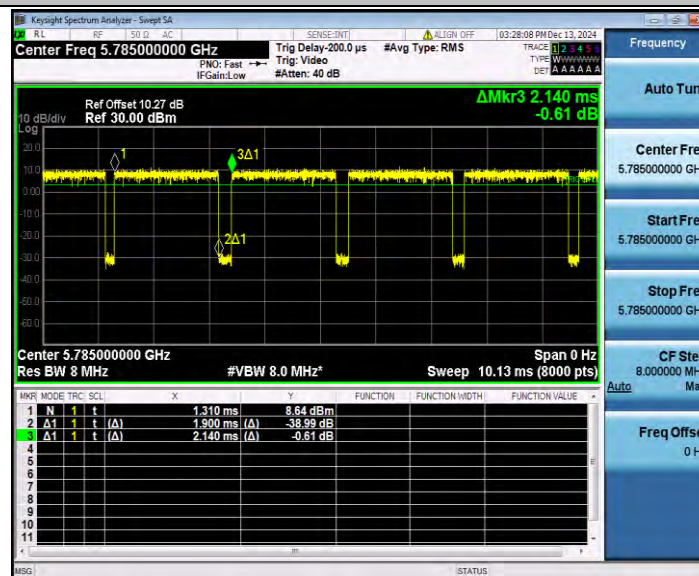




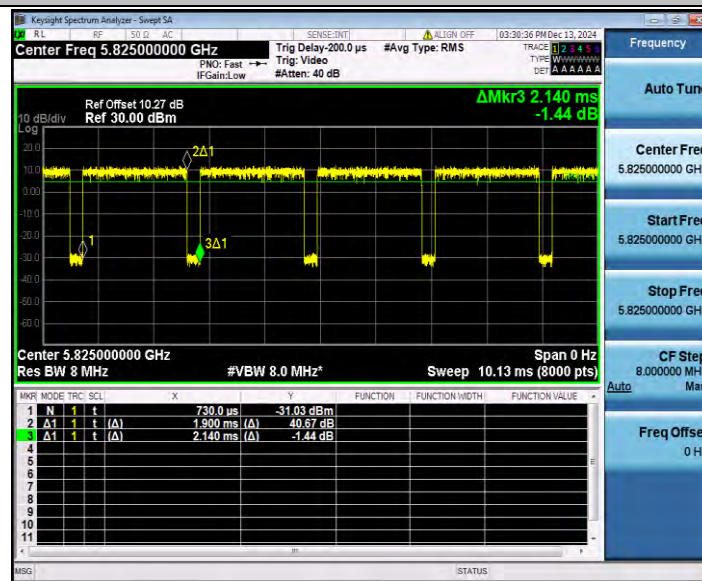
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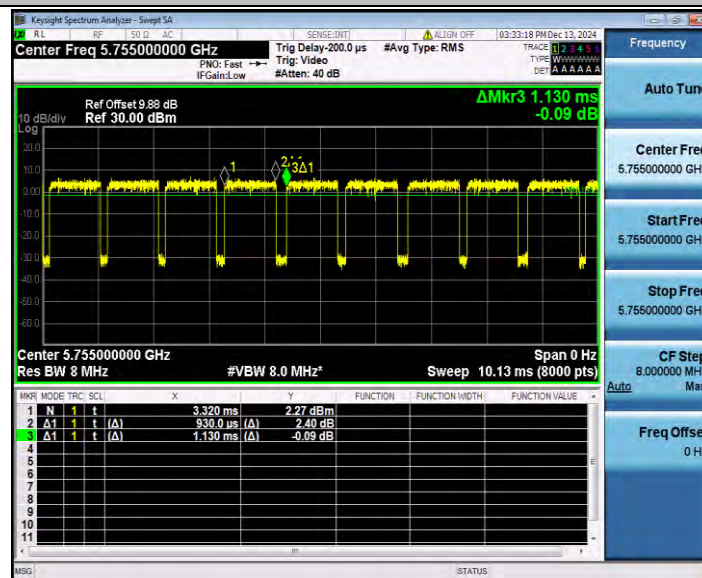
11AC20SISO_Ant1_5785



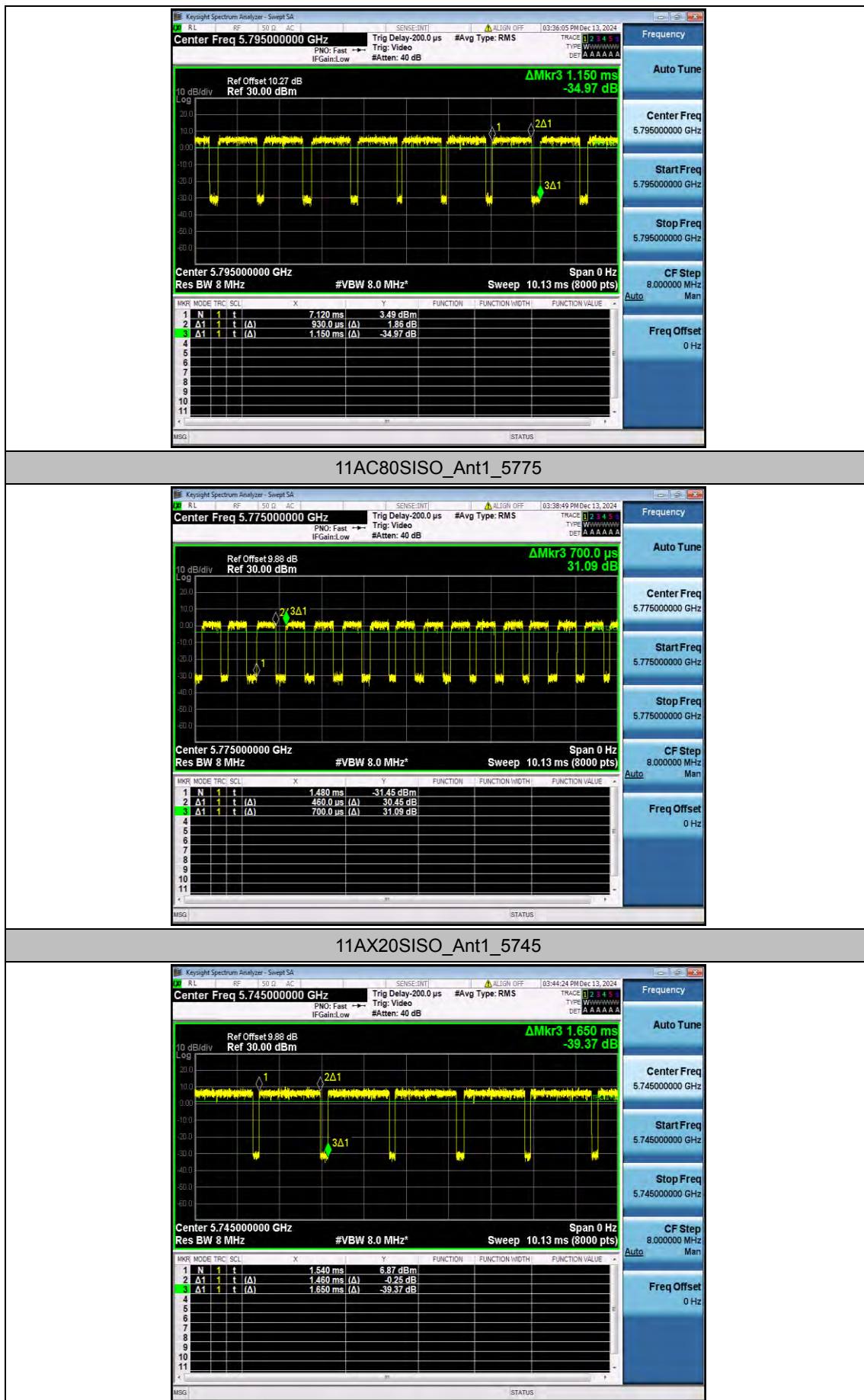
11AC20SISO_Ant1_5825



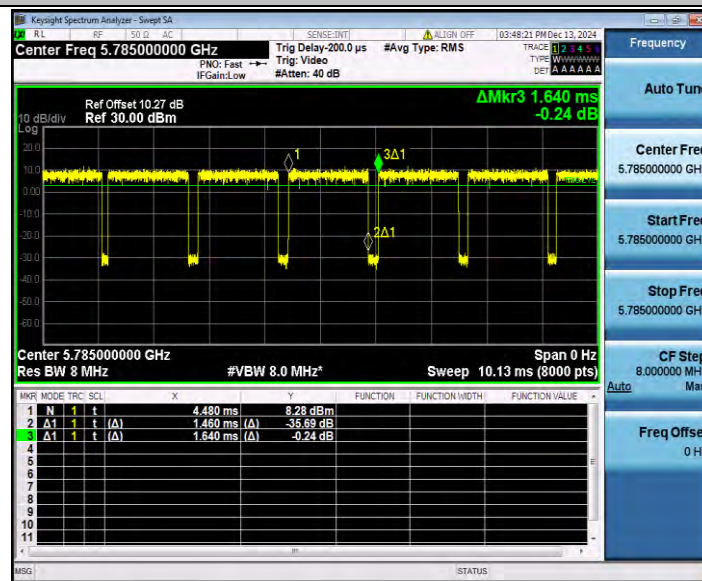
11AC40SISO_Ant1_5755



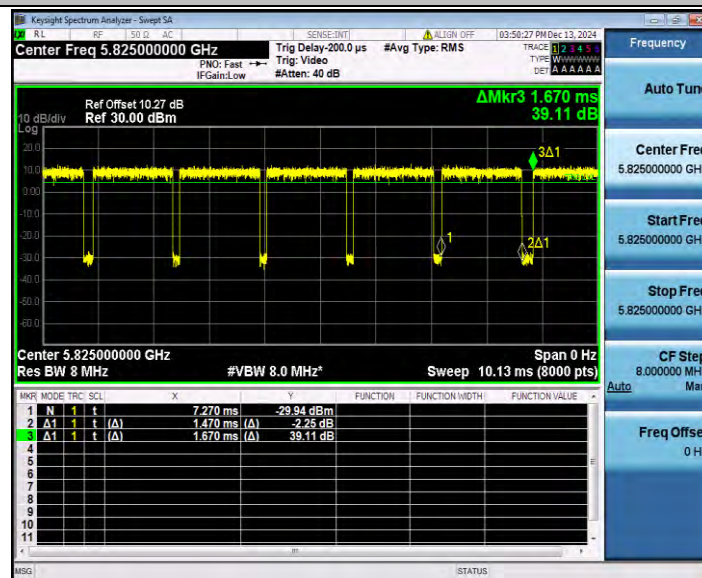
11AC40SISO_Ant1_5795



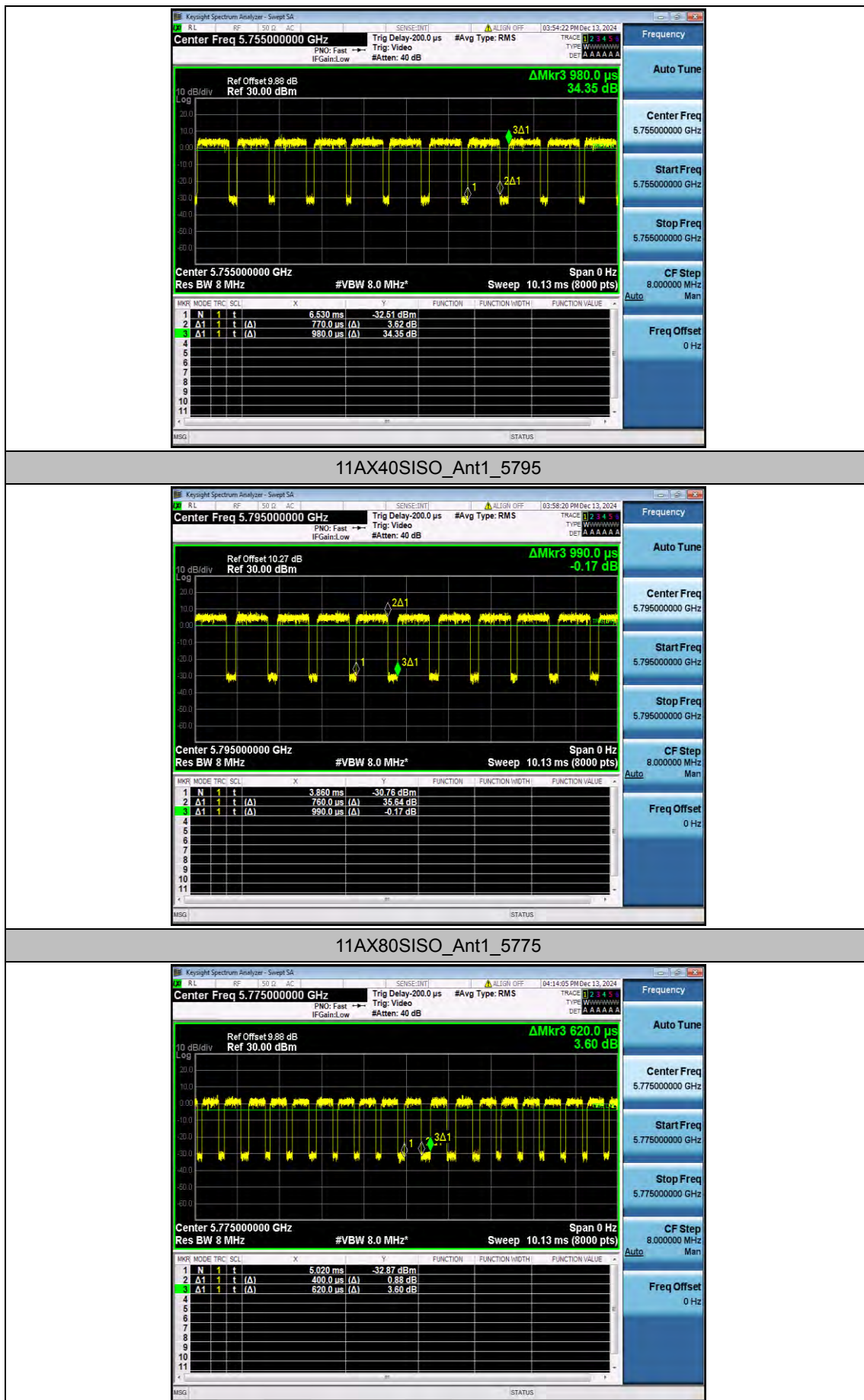
11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



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	10.12	91.86	0.37	10.49	≤30.00	PASS
		5785	11.43	91.89	0.37	11.80	≤30.00	PASS
		5825	12.68	90.67	0.43	13.11	≤30.00	PASS
11N20SISO	Ant1	5745	10.07	89.62	0.48	10.55	≤30.00	PASS
		5785	11.49	89.15	0.50	11.99	≤30.00	PASS
		5825	12.48	90.05	0.46	12.94	≤30.00	PASS
11N40SISO	Ant1	5755	9.83	83.78	0.77	10.60	≤30.00	PASS
		5795	11.32	66.91	1.75	13.07	≤30.00	PASS
11AC20SISO	Ant1	5745	10.21	91.35	0.39	10.60	≤30.00	PASS
		5785	11.78	88.79	0.52	12.30	≤30.00	PASS
		5825	13.09	88.79	0.52	13.61	≤30.00	PASS
11AC40SISO	Ant1	5755	9.96	82.30	0.85	10.81	≤30.00	PASS
		5795	11.56	80.87	0.92	12.48	≤30.00	PASS
11AC80SISO	Ant1	5775	9.93	65.71	1.82	11.75	≤30.00	PASS
11AX20SISO	Ant1	5745	10.07	88.48	0.53	10.60	≤30.00	PASS
		5785	11.69	89.02	0.51	12.20	≤30.00	PASS
		5825	12.98	88.02	0.55	13.53	≤30.00	PASS
11AX40SISO	Ant1	5755	9.98	78.57	1.05	11.03	≤30.00	PASS
		5795	11.44	76.77	1.15	12.59	≤30.00	PASS
11AX80SISO	Ant1	5775	8.51	64.52	1.90	10.41	≤30.00	PASS

Appendix G.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-3.89	≤30.00	PASS
		5785	-2.71	≤30.00	PASS
		5825	-1.41	≤30.00	PASS
11N20SISO	Ant1	5745	-4.15	≤30.00	PASS
		5785	-2.77	≤30.00	PASS
		5825	-1.66	≤30.00	PASS
11N40SISO	Ant1	5755	-6.46	≤30.00	PASS
		5795	-3.95	≤30.00	PASS
11AC20SISO	Ant1	5745	-3.89	≤30.00	PASS
		5785	-2.61	≤30.00	PASS
		5825	-1.45	≤30.00	PASS
11AC40SISO	Ant1	5755	-6.10	≤30.00	PASS
		5795	-4.71	≤30.00	PASS
11AC80SISO	Ant1	5775	-7.47	≤30.00	PASS
11AX20SISO	Ant1	5745	-4.28	≤30.00	PASS
		5785	-2.99	≤30.00	PASS
		5825	-1.82	≤30.00	PASS
11AX40SISO	Ant1	5755	-6.64	≤30.00	PASS
		5795	-4.83	≤30.00	PASS
11AX80SISO	Ant1	5775	-7.48	≤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

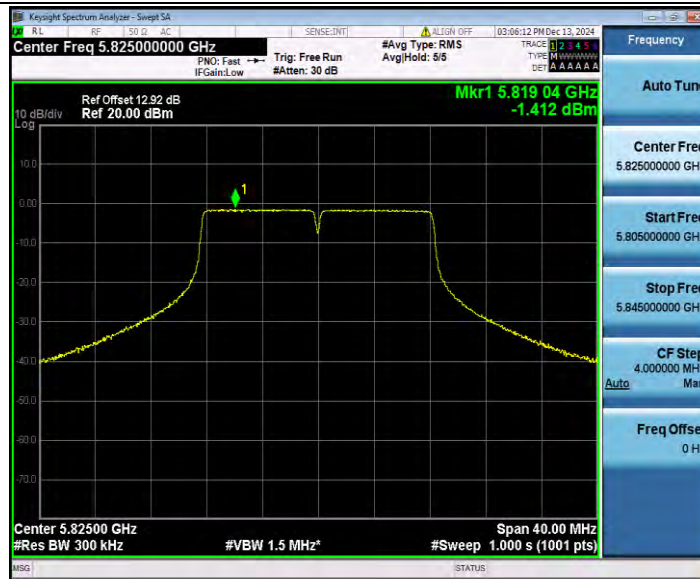
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



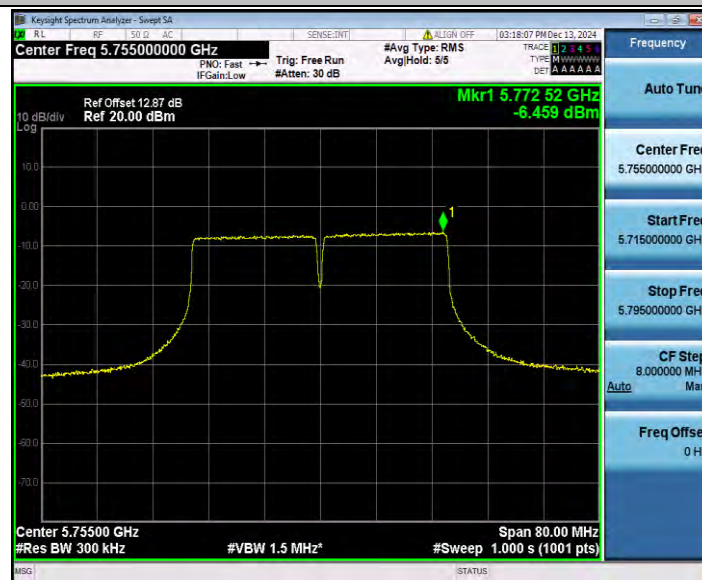
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



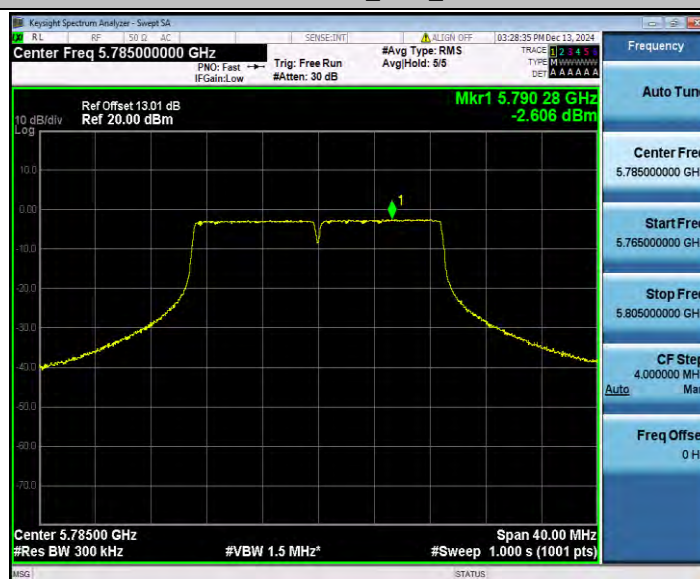
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



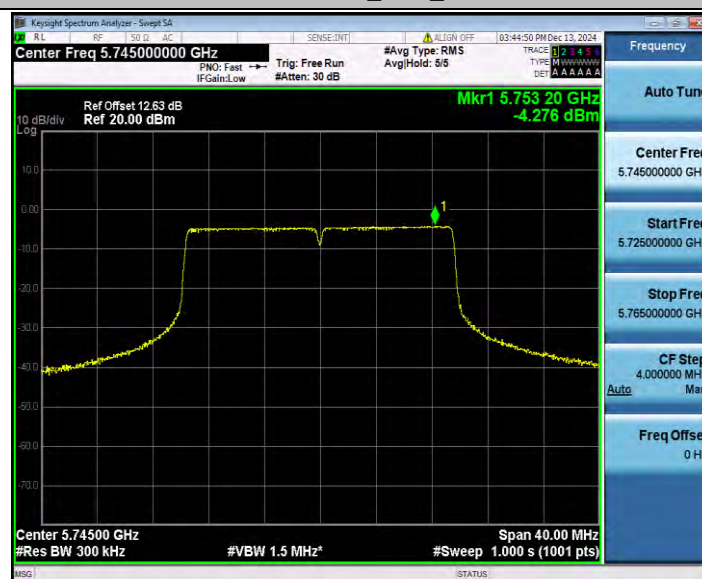
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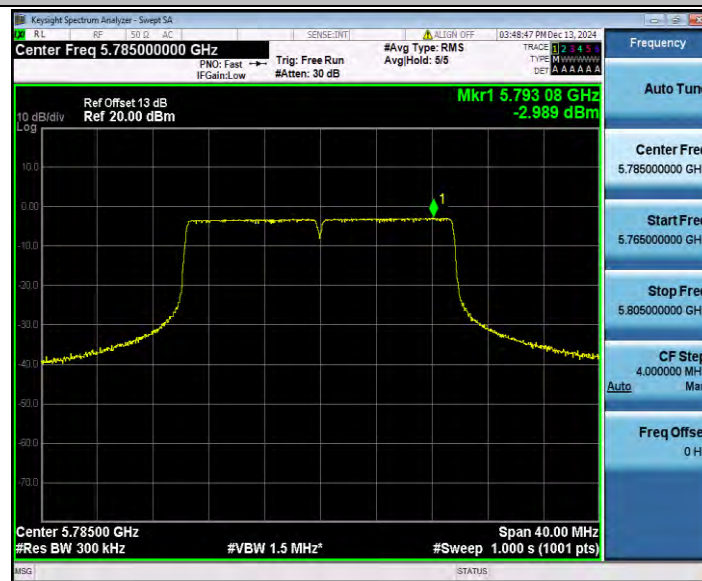
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11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5775

