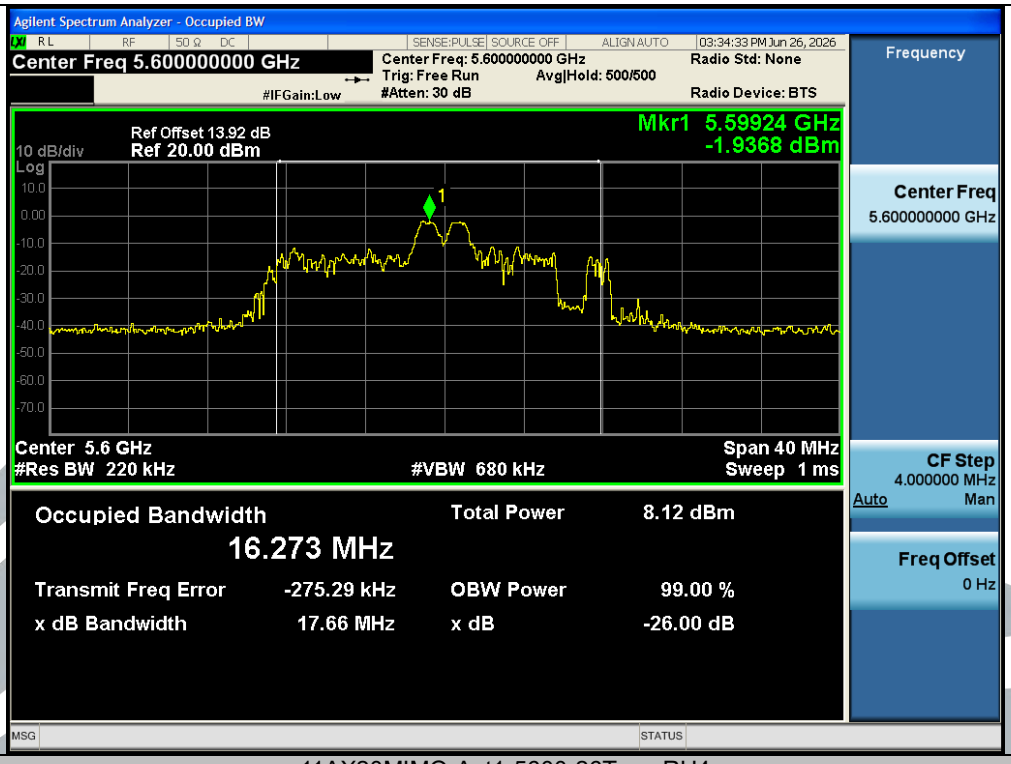

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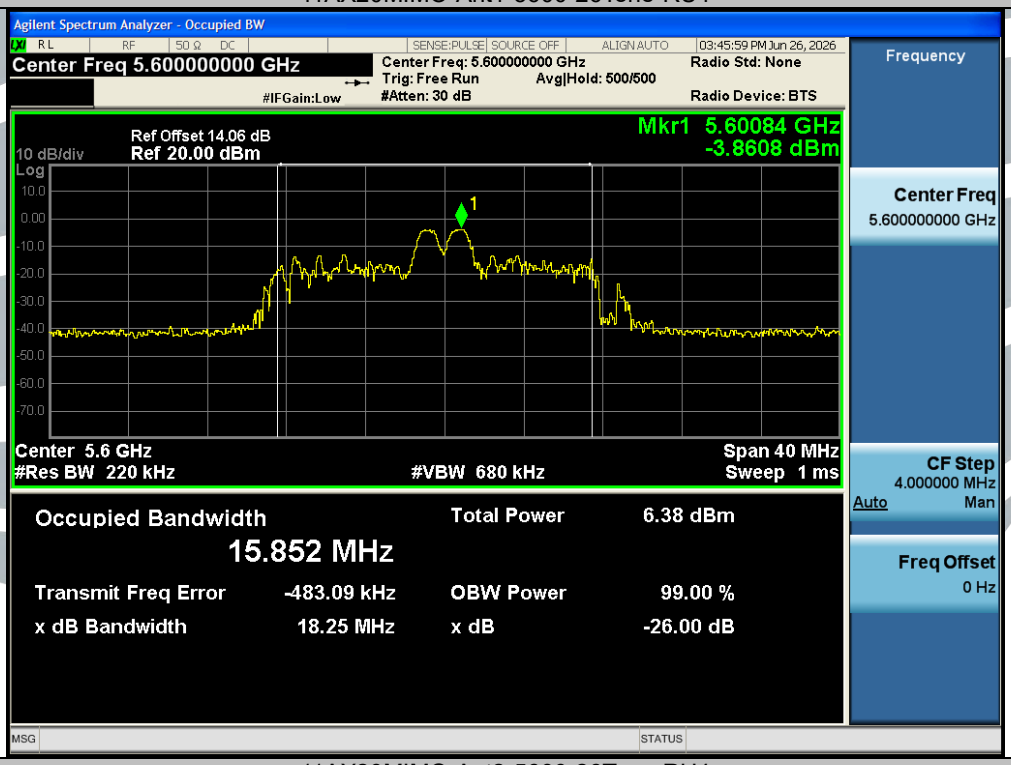
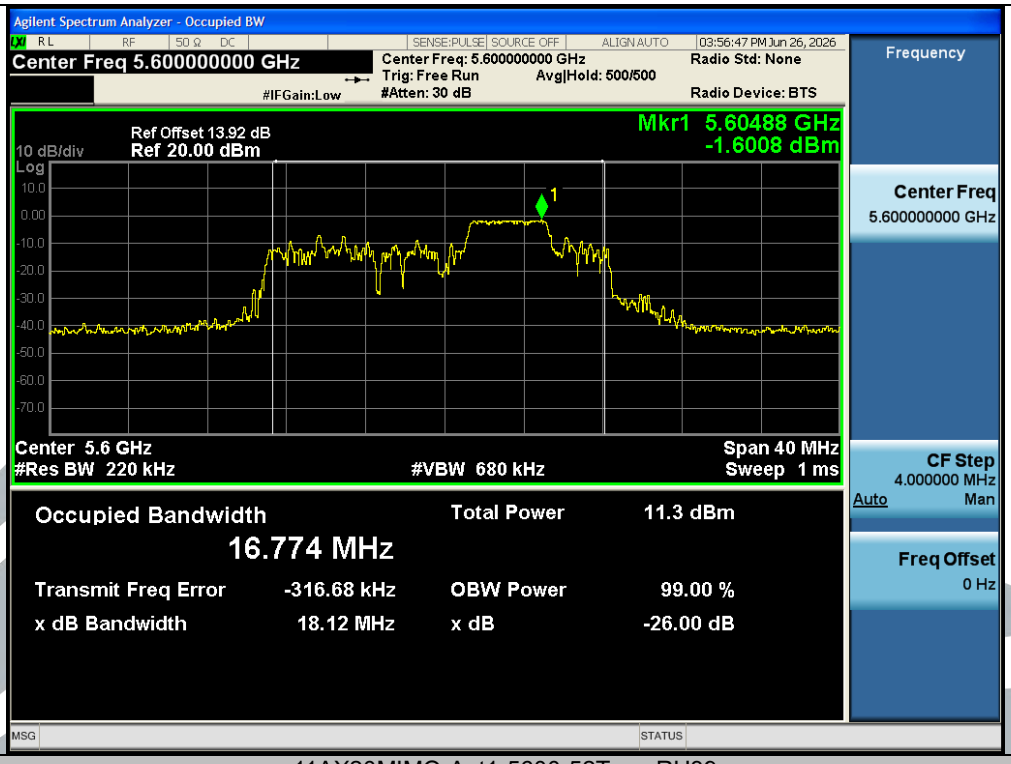


11AX20MIMO-Ant2-5600-26Tone-RU4



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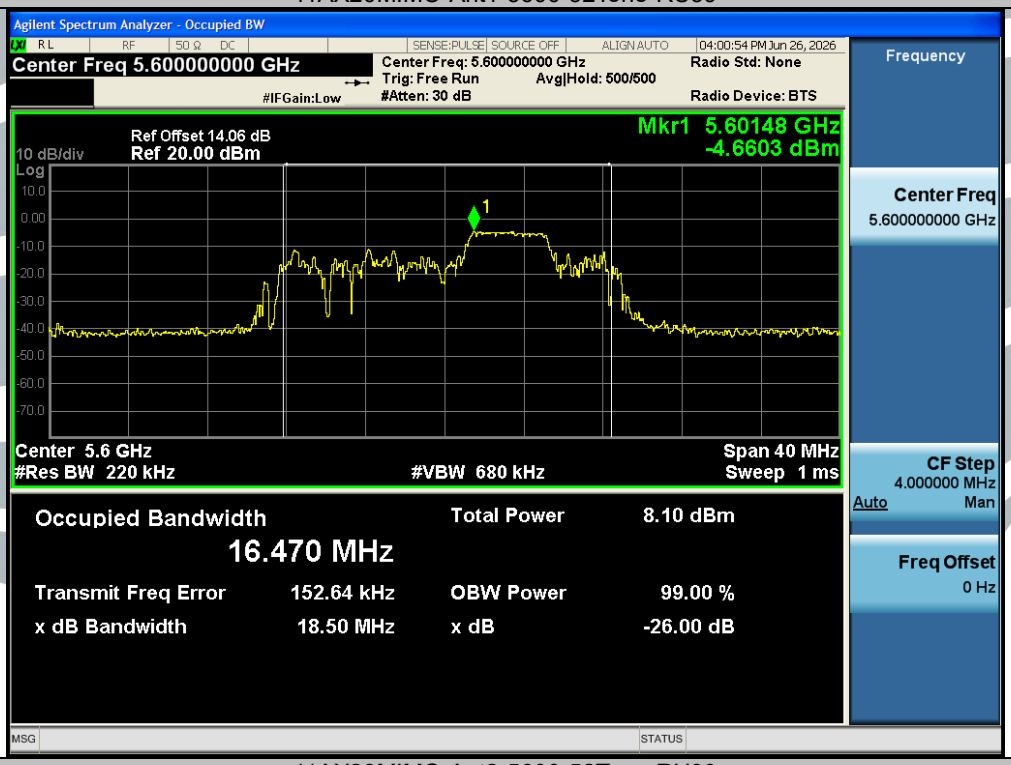

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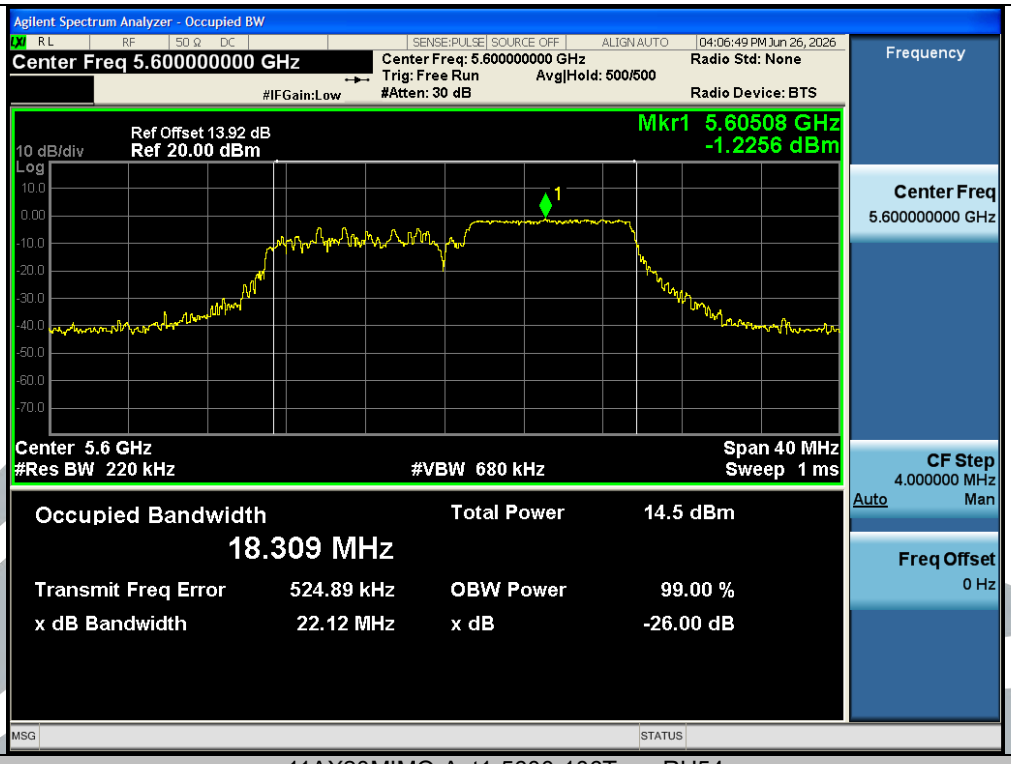

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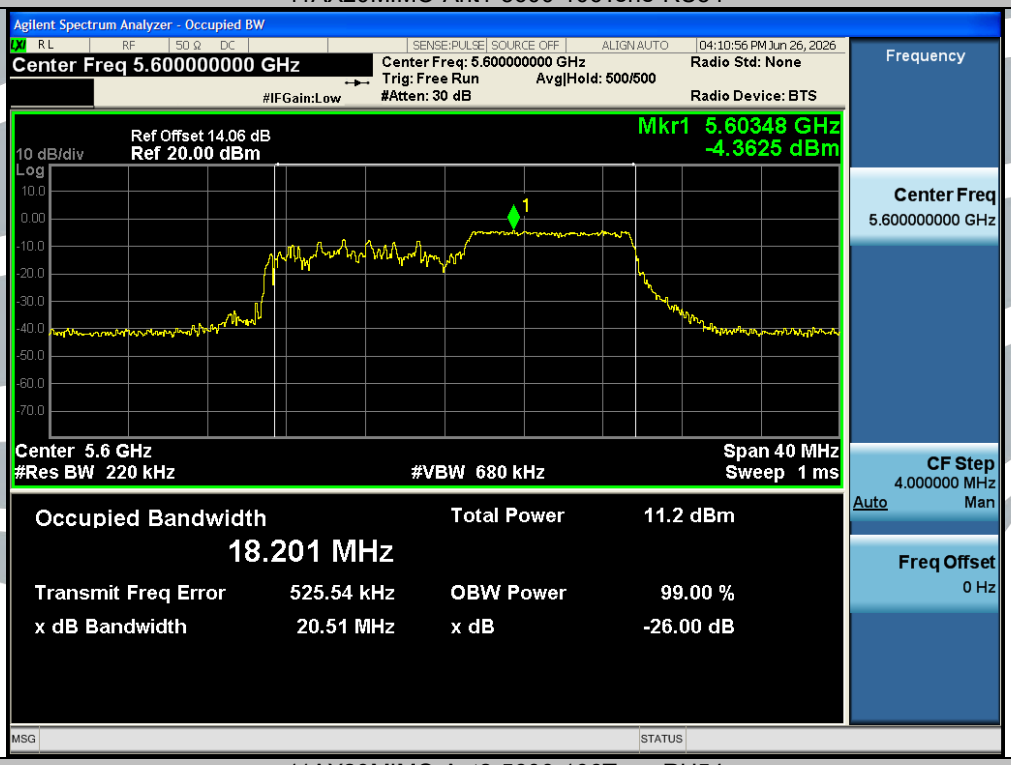

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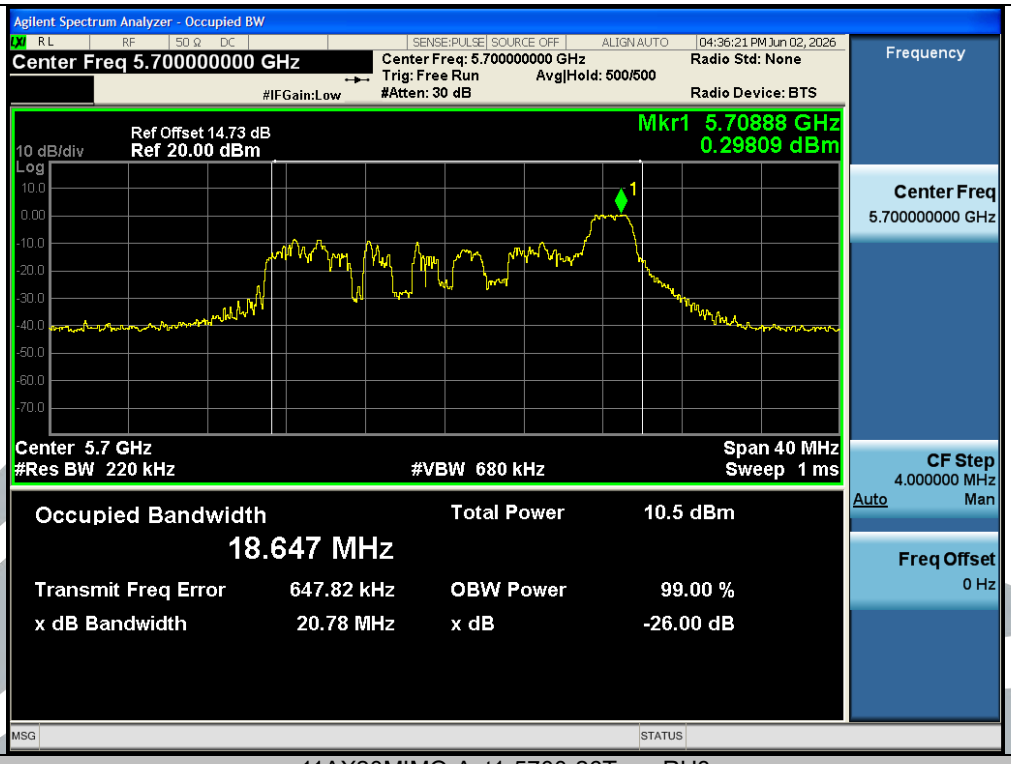

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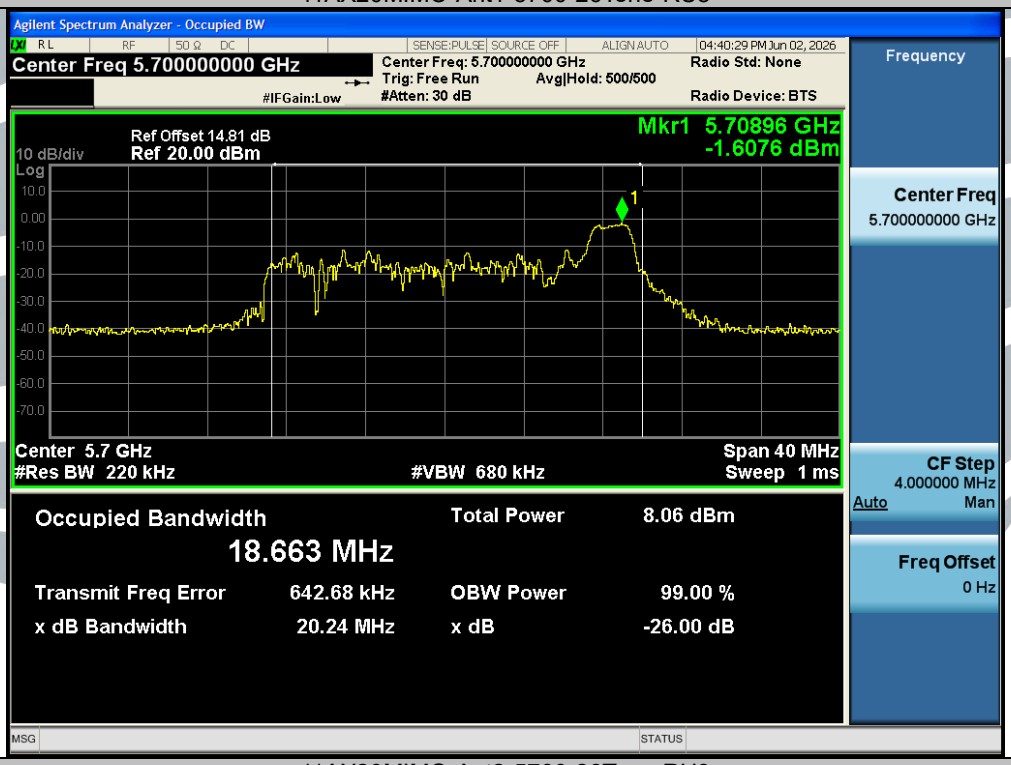

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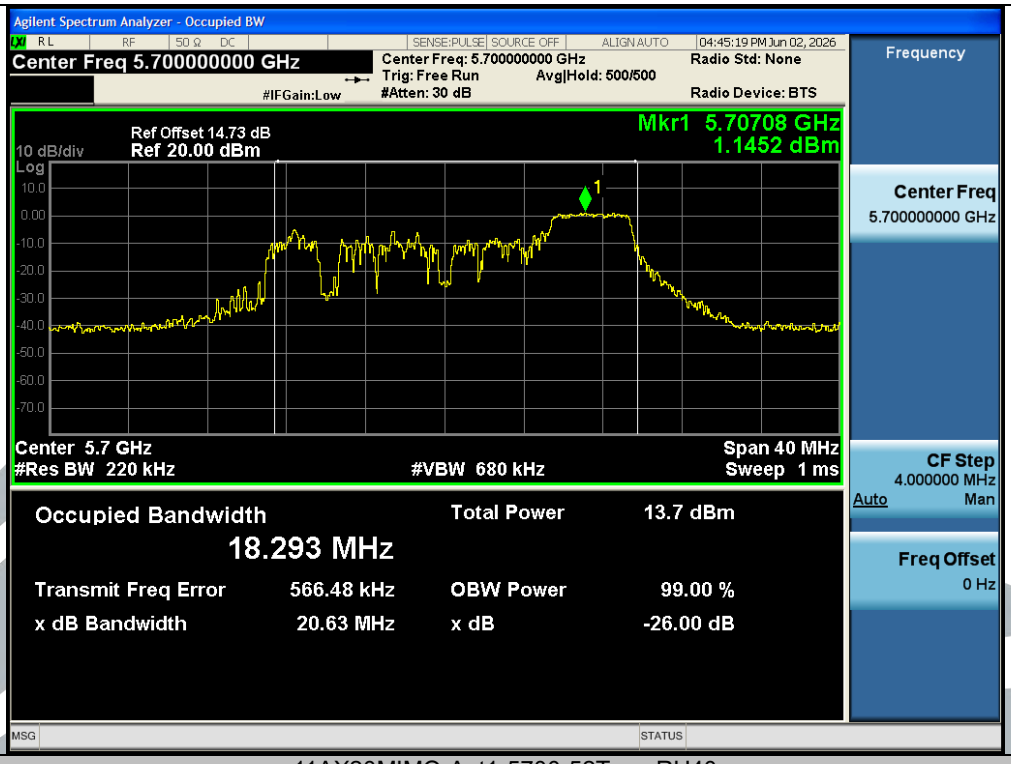

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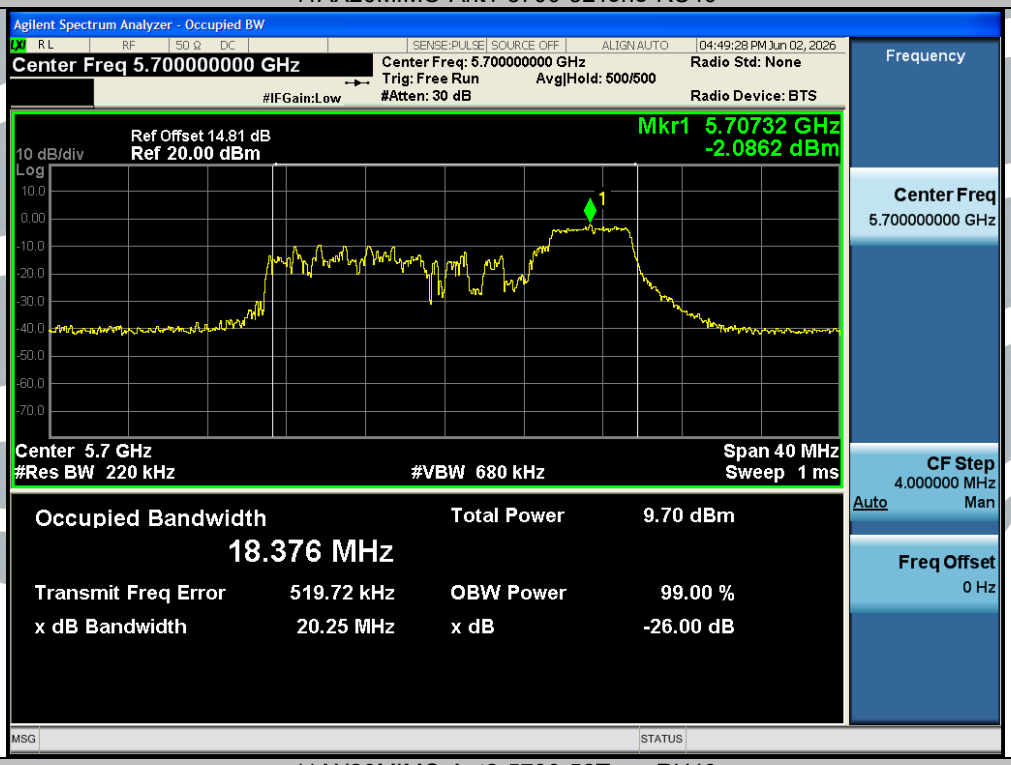

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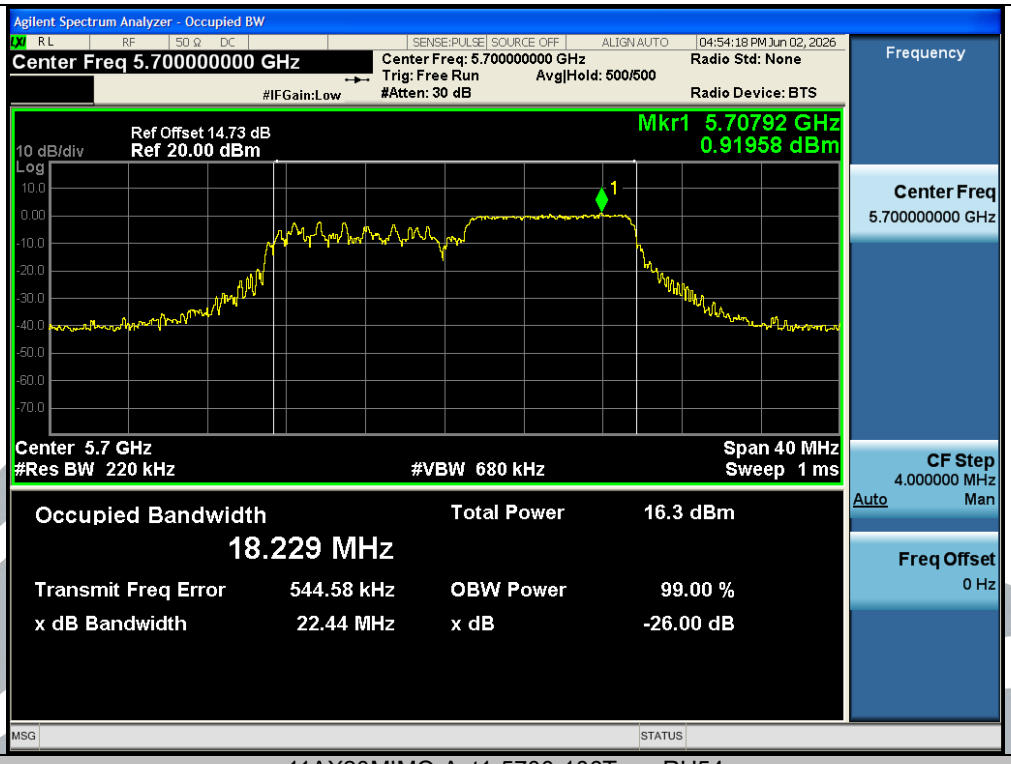

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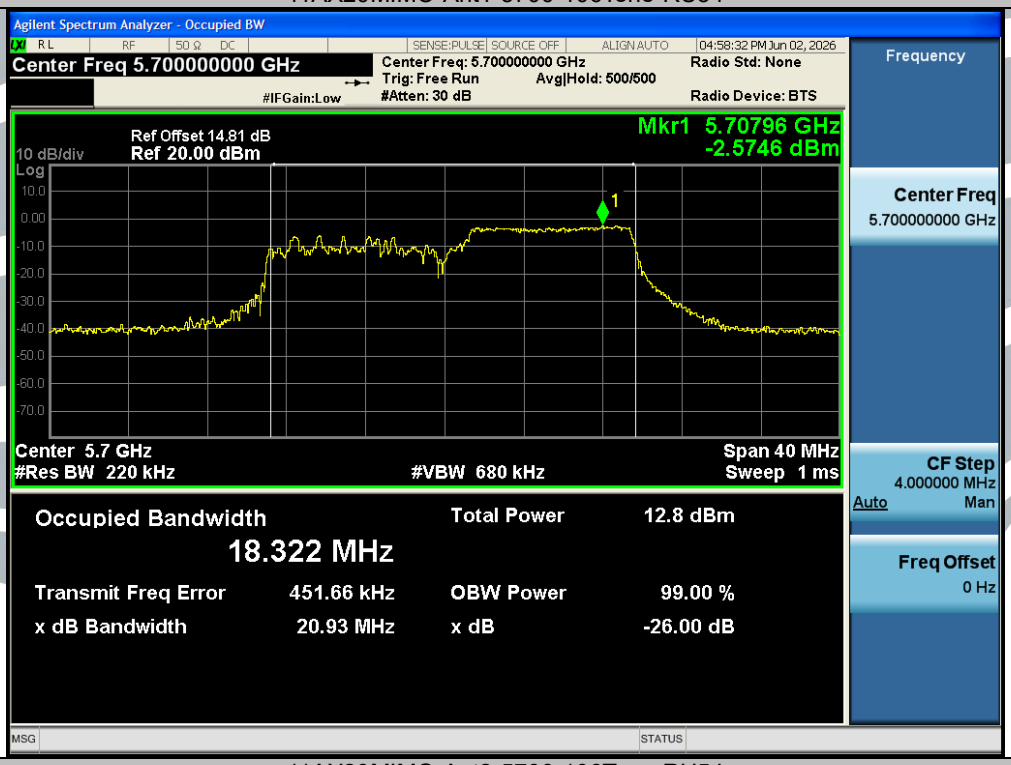


11AX20MIMO-Ant2-5700-106Tone-RU54

5.46 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

Test Method: KDB 789033 D02 v02r01Section C.2

Limit: Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 * RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

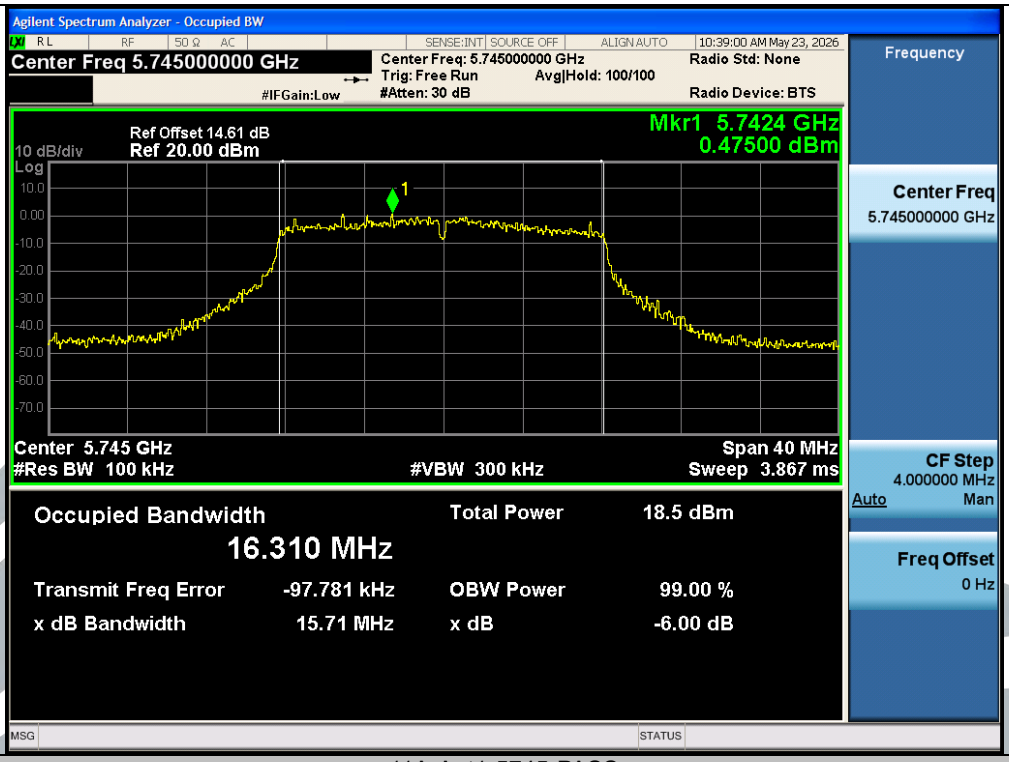
Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

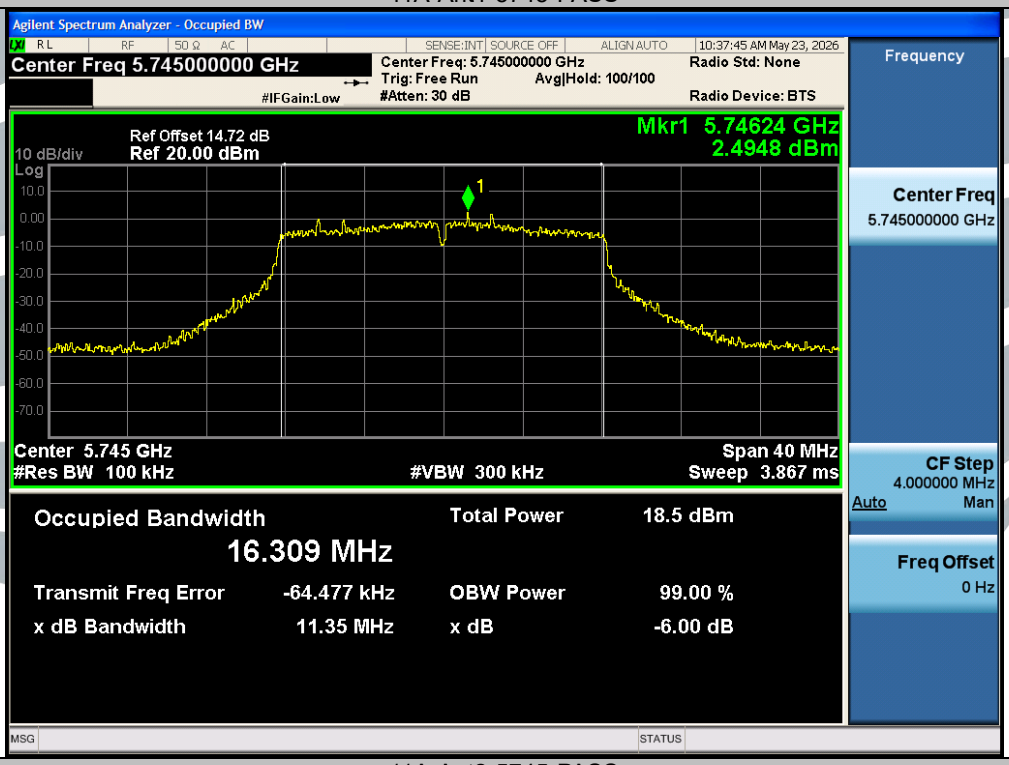
Test Mode: Tx mode

Test Results:

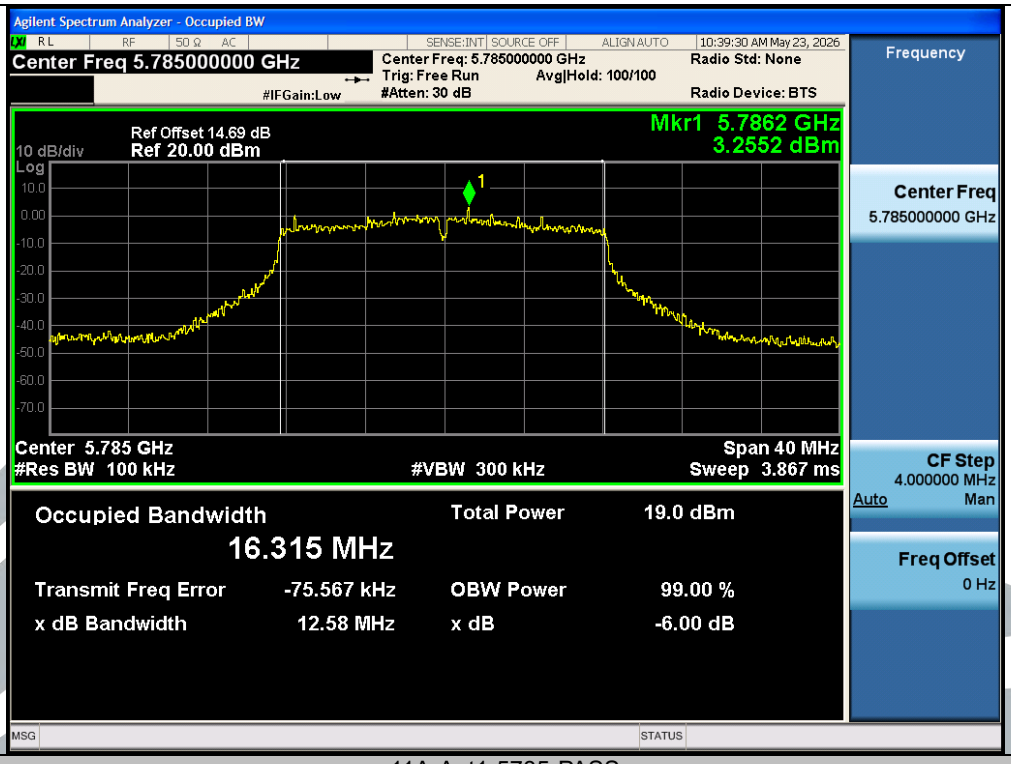
Test Mode	RU&Index	Frequency [MHz]	6dB BW [MHz]		Limit [MHz]	Verdict
			Chain 0	Chain 1		
11A	--	5745	15.71	11.35	0.5	PASS
11A	--	5785	12.58	13.90	0.5	PASS
11A	--	5825	13.00	12.66	0.5	PASS
11N20MIMO		5745	10.45	15.10	0.5	PASS
11N20MIMO		5785	14.58	15.90	0.5	PASS
11N20MIMO		5825	17.55	17.25	0.5	PASS
11N40MIMO		5755	30.78	35.08	0.5	PASS
11N40MIMO		5795	30.39	31.40	0.5	PASS
11AC20MIMO		5745	15.07	16.94	0.5	PASS
11AC20MIMO		5785	14.95	17.61	0.5	PASS
11AC20MIMO		5825	13.11	11.95	0.5	PASS
11AC40MIMO		5755	35.91	35.70	0.5	PASS
11AC40MIMO		5795	34.68	49.19	0.5	PASS
11AC80MIMO		5775	55.30	18.44	0.5	PASS
11AX20MIMO	SU	5745	15.04	17.88	0.5	PASS
11AX20MIMO	SU	5785	13.69	18.98	0.5	PASS
11AX20MIMO	SU	5825	18.50	28.04	0.5	PASS
11AX40MIMO	SU	5755	34.07	33.91	0.5	PASS
11AX40MIMO	SU	5795	35.85	55.60	0.5	PASS
11AX80MIMO	SU	5775	49.67	11.35	0.5	PASS
11AX20MIMO	26RU0	5745	2.124	2.118	0.5	PASS
11AX20MIMO	52RU37	5745	14.55	17.05	0.5	PASS
11AX20MIMO	106RU53	5745	17.17	17.76	0.5	PASS
11AX20MIMO	26RU4	5785	2.704	2.687	0.5	PASS
11AX20MIMO	52RU39	5785	12.89	15.11	0.5	PASS
11AX20MIMO	106RU54	5785	17.48	17.41	0.5	PASS
11AX20MIMO	26RU8	5825	2.153	2.112	0.5	PASS
11AX20MIMO	52RU40	5825	13.30	17.10	0.5	PASS
11AX20MIMO	106RU54	5825	17.40	17.34	0.5	PASS



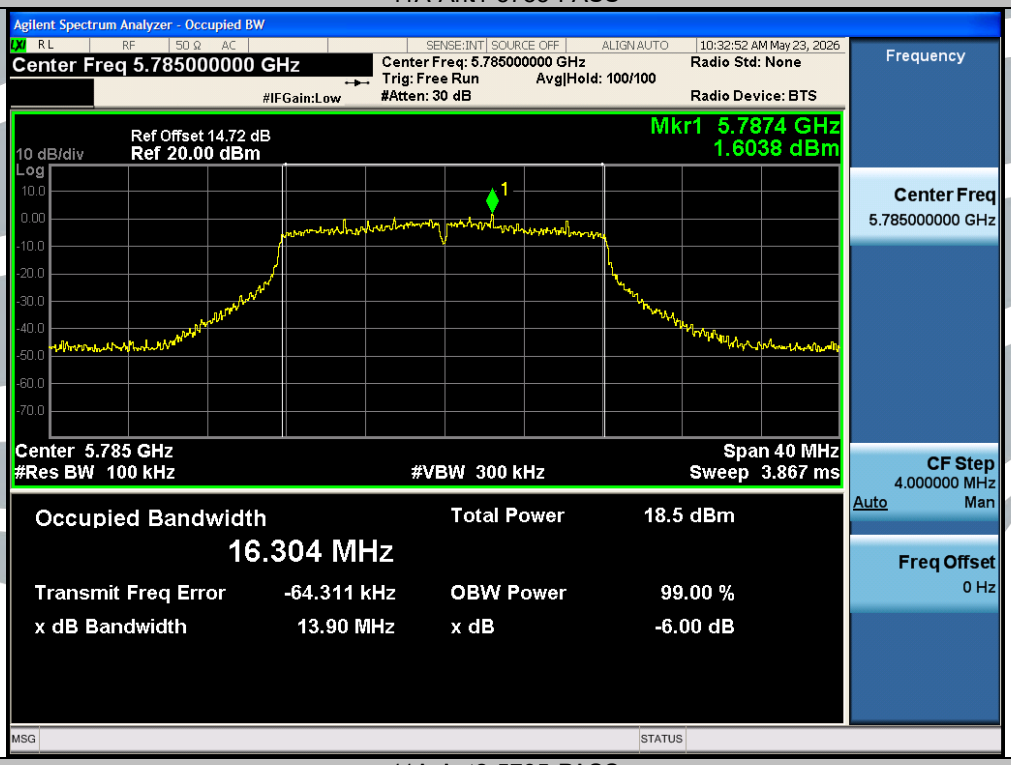
11A-Ant1-5745-PASS



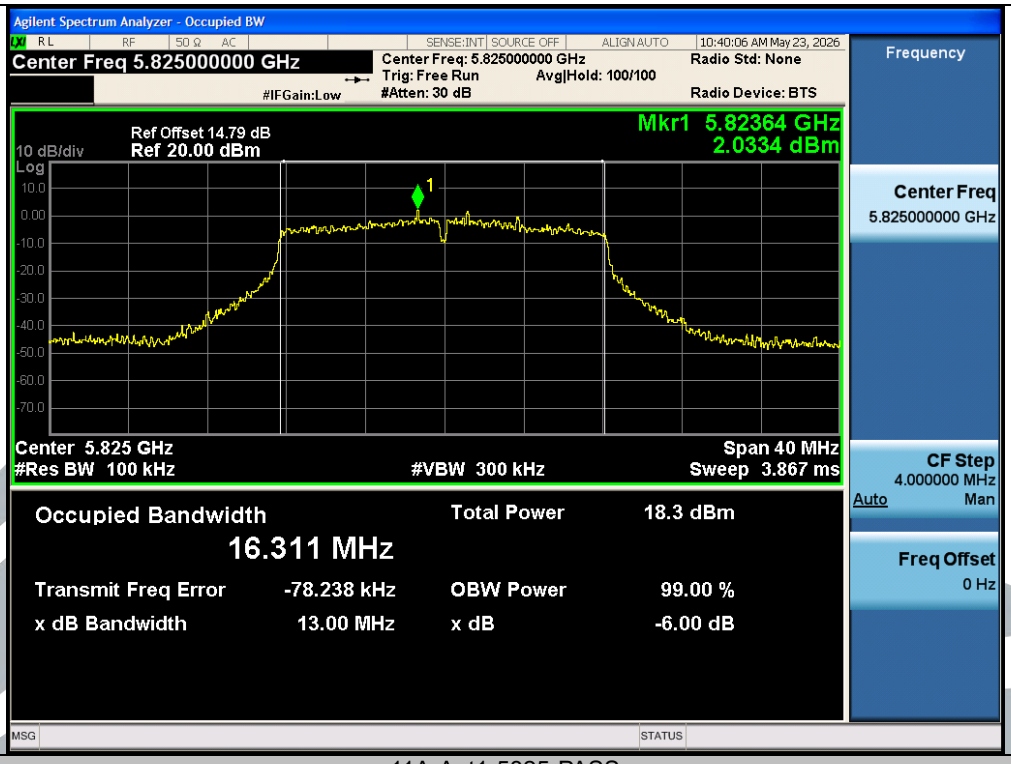
11A-Ant2-5745-PASS



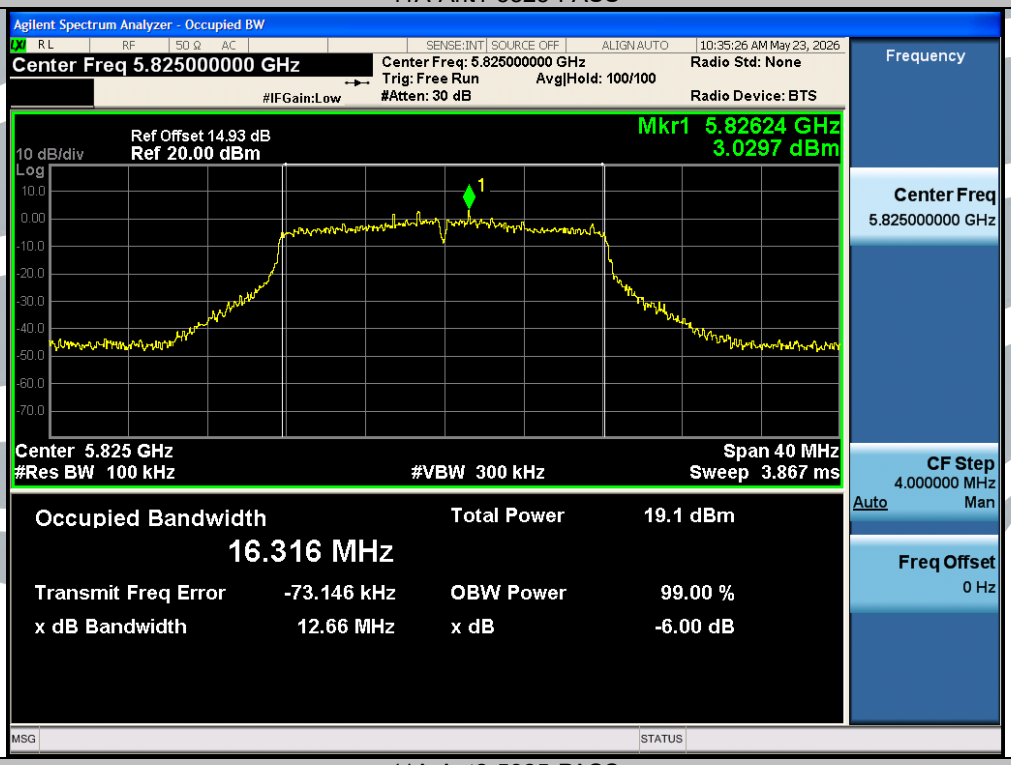
11A-Ant1-5785-PASS



11A-Ant2-5785-PASS



11A-Ant1-5825-PASS



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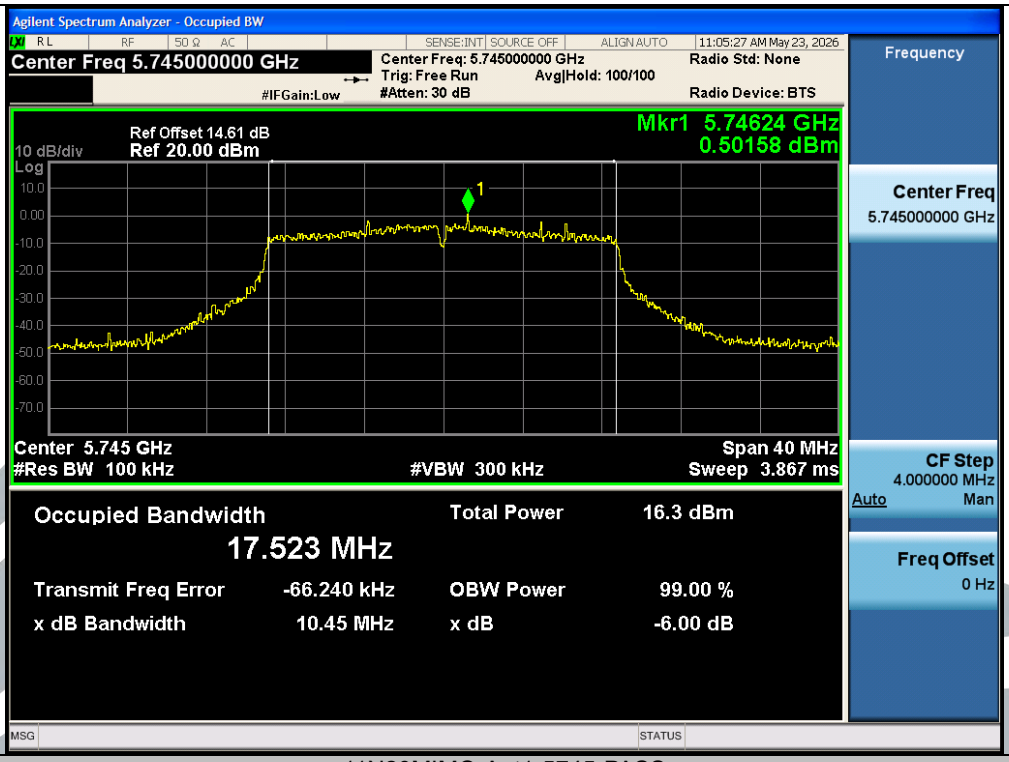

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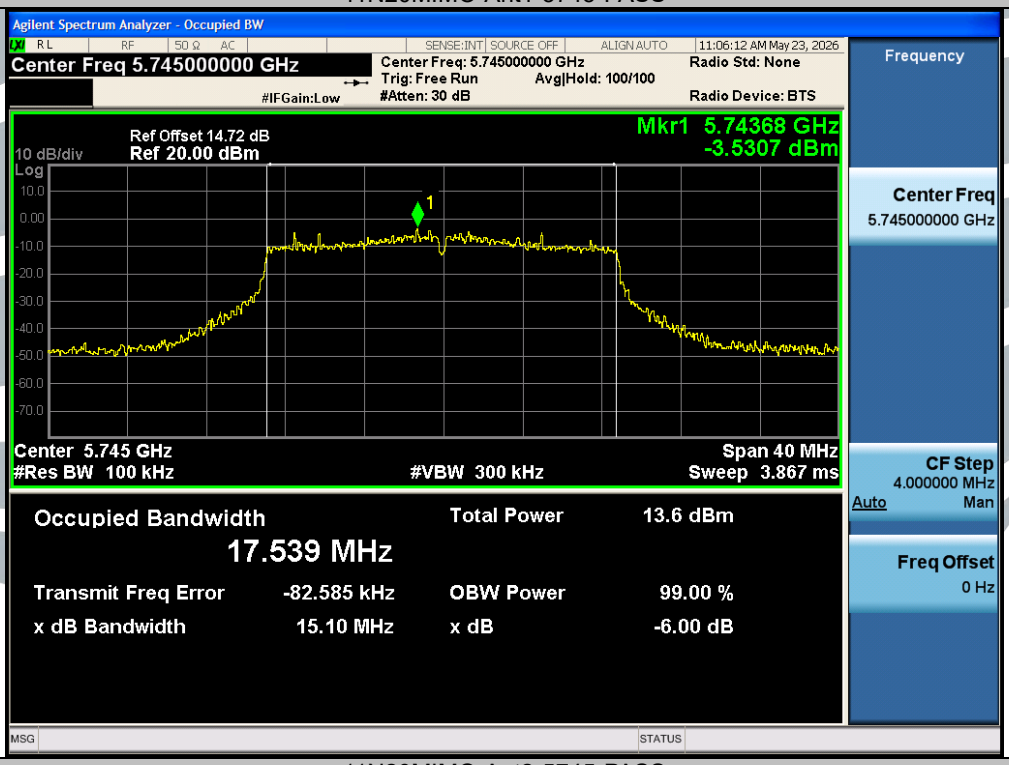

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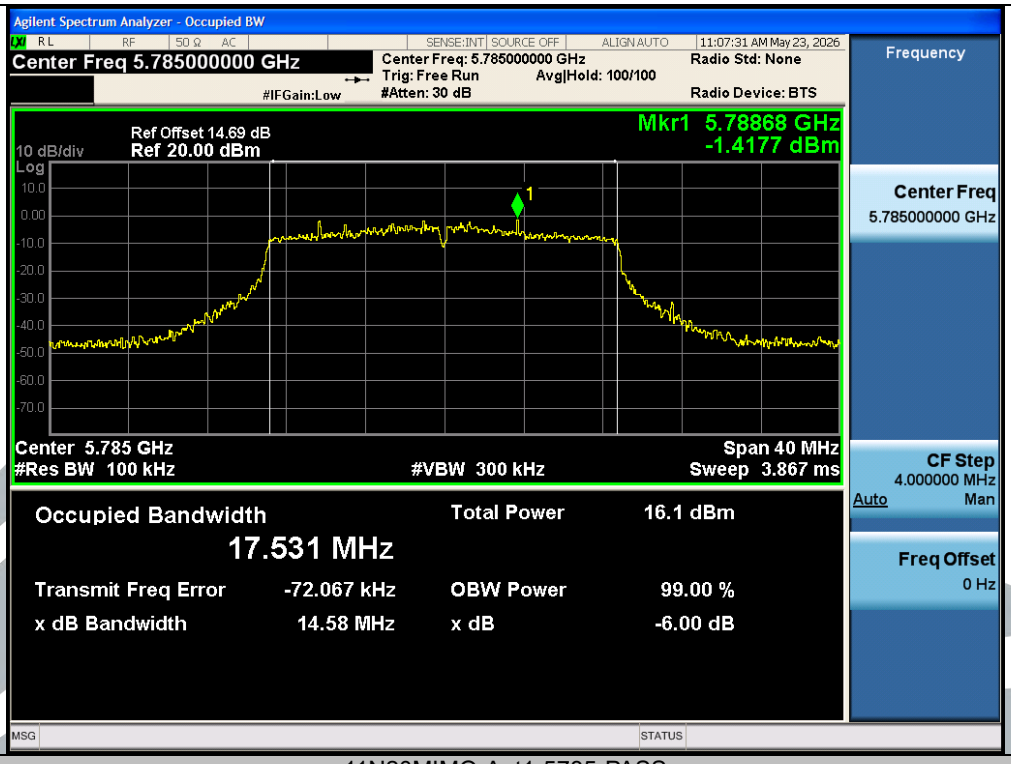

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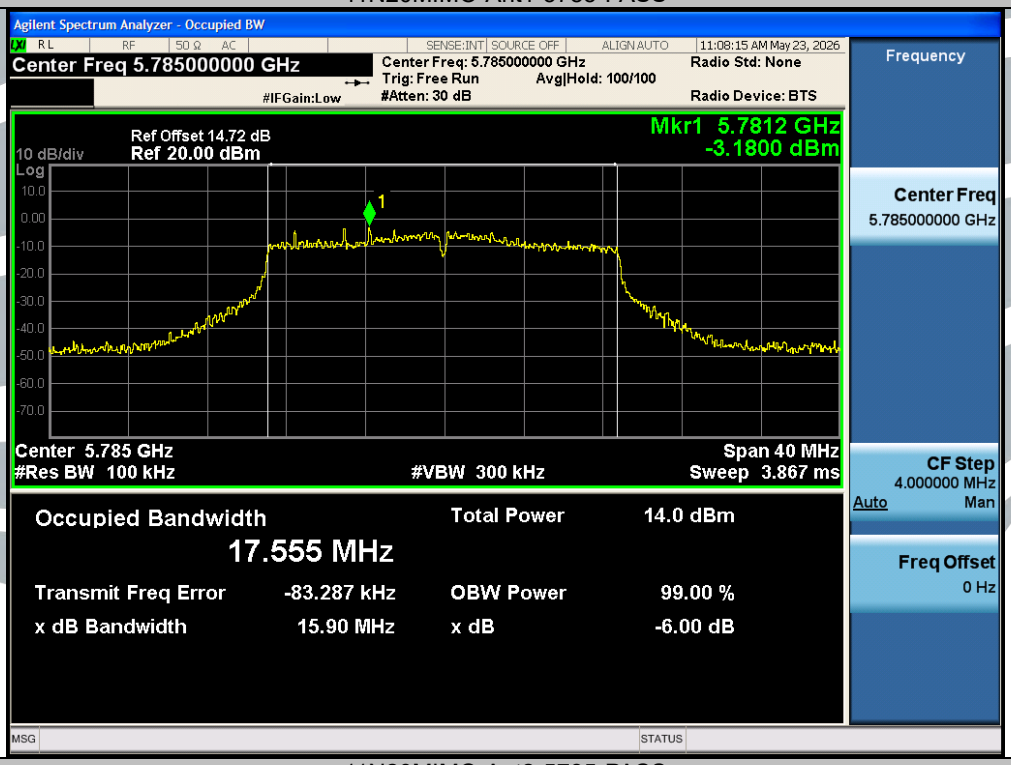

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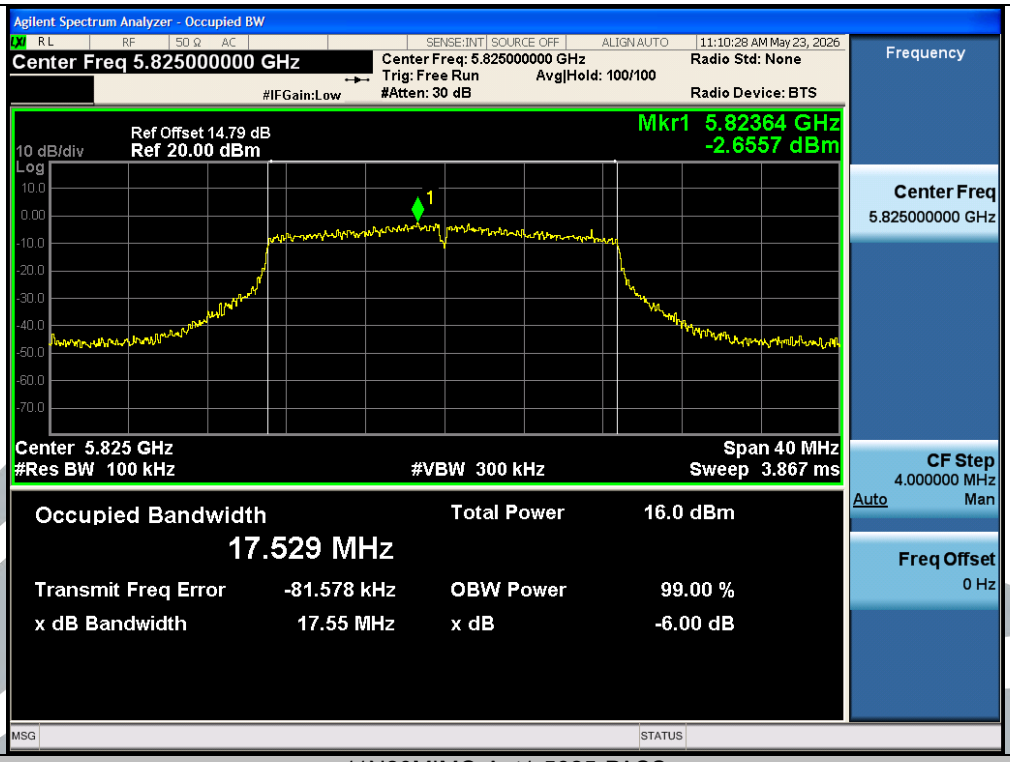

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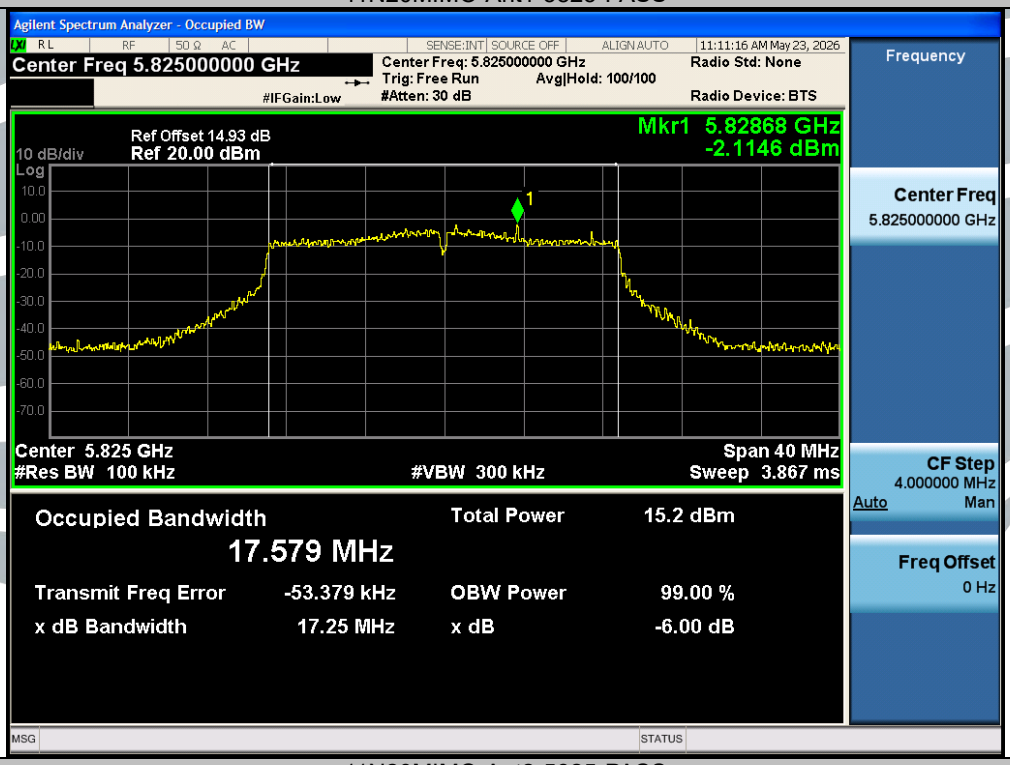

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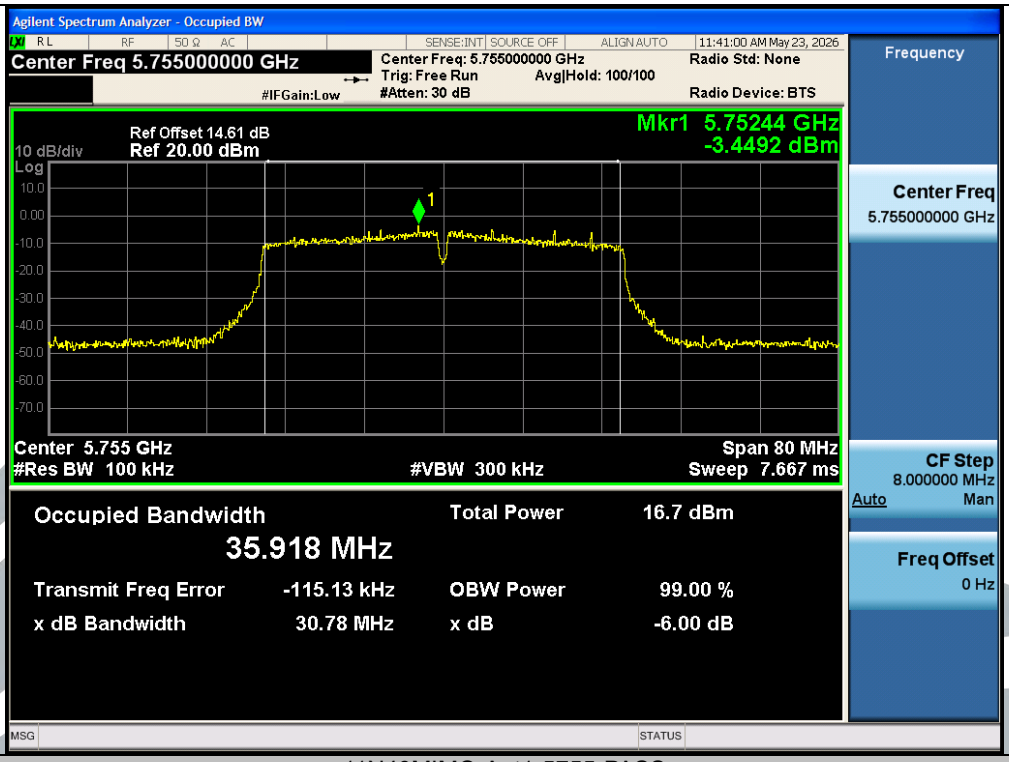
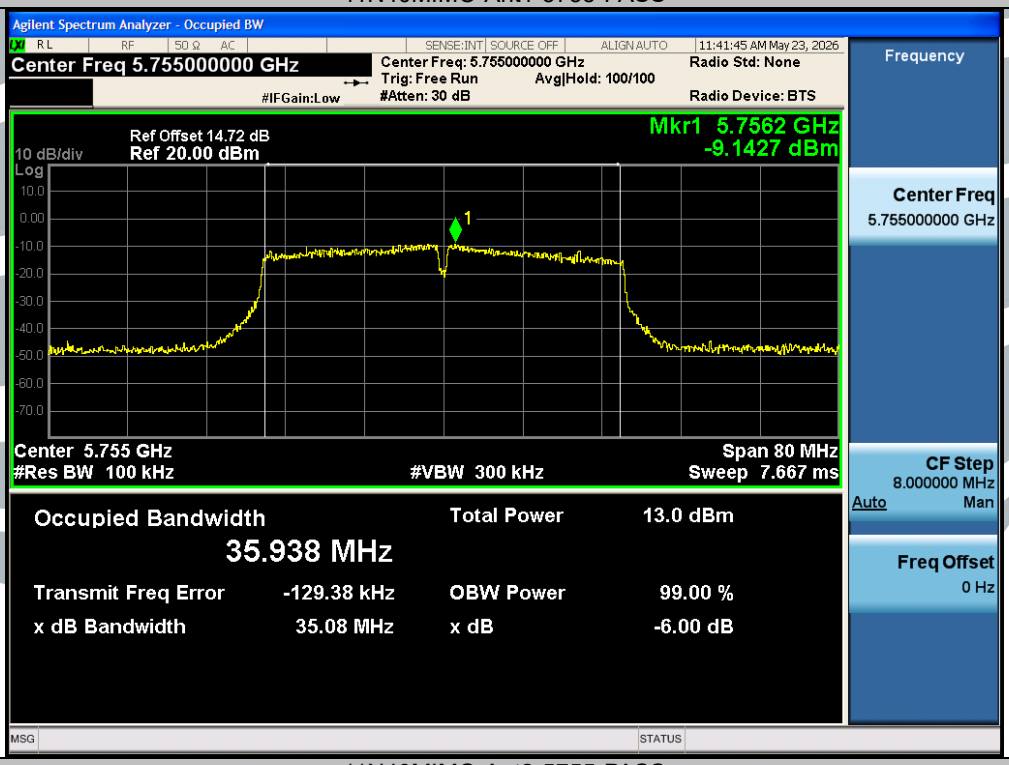


11N40MIMO-Ant1-5755-PASS



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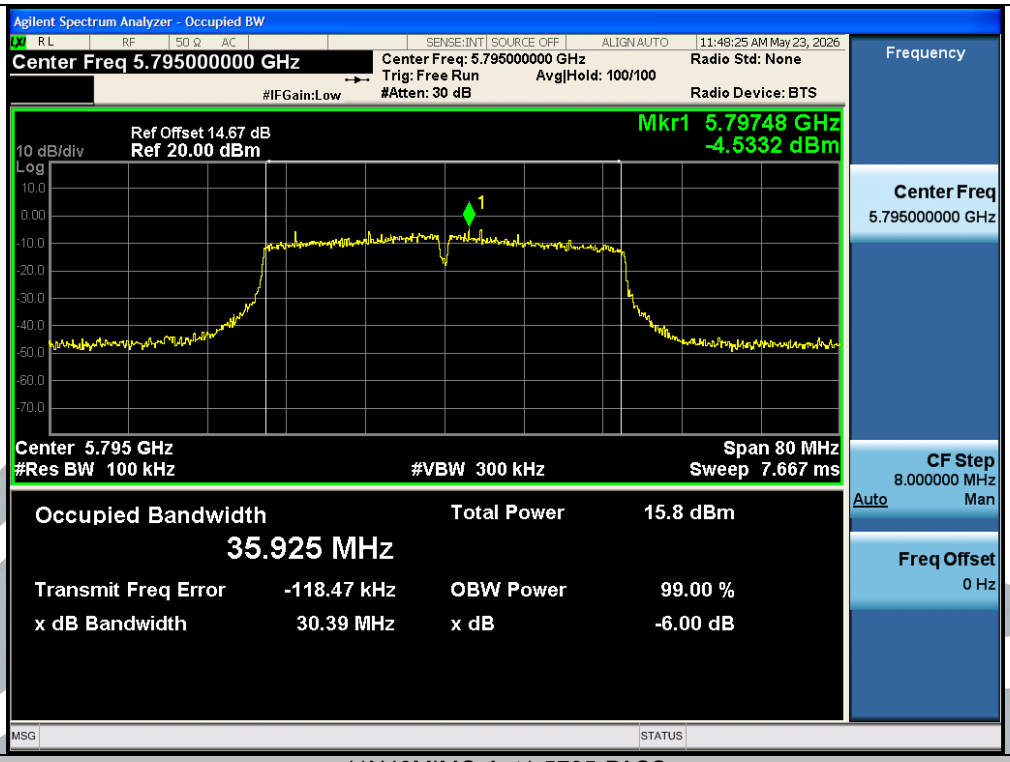

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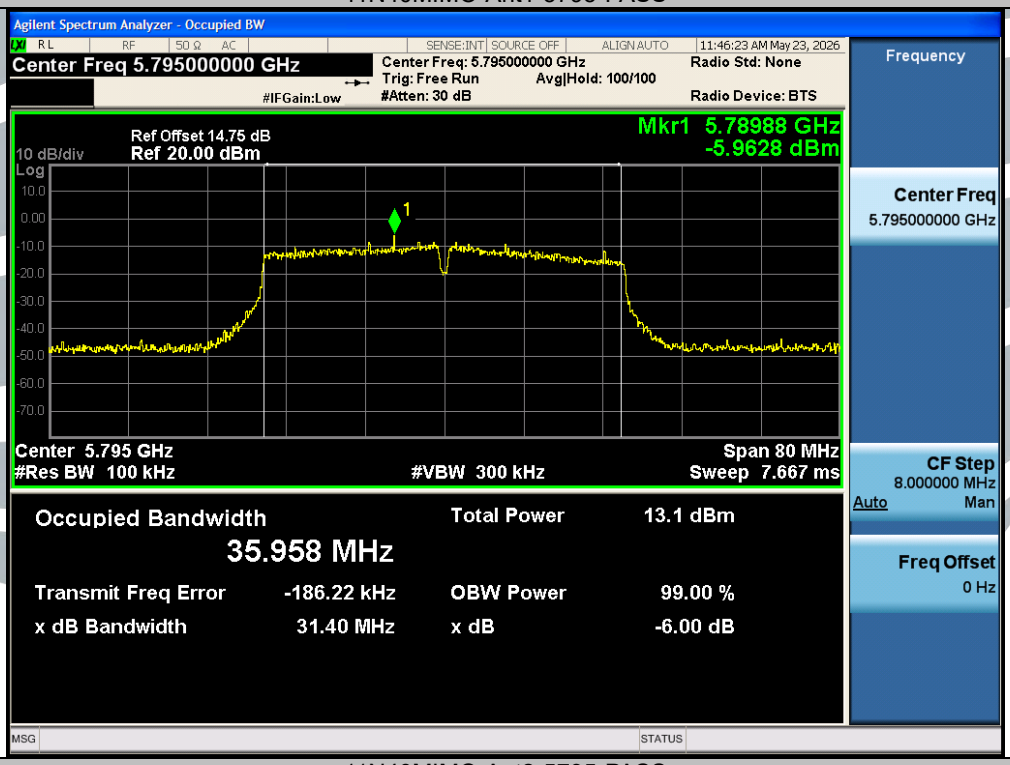

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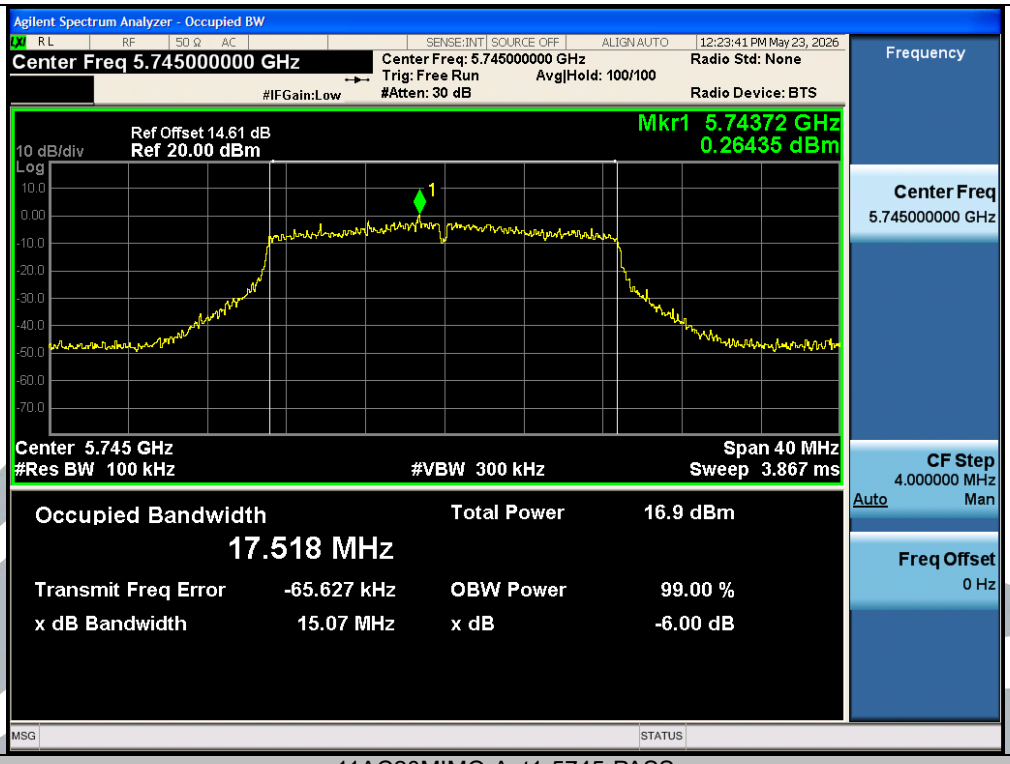

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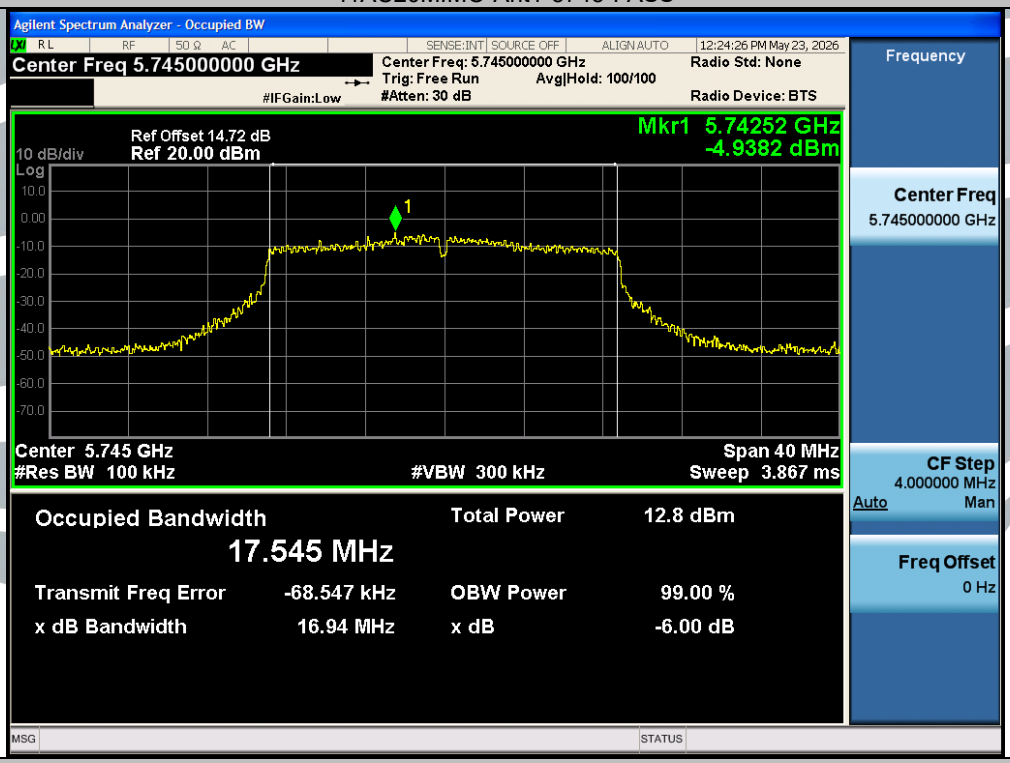

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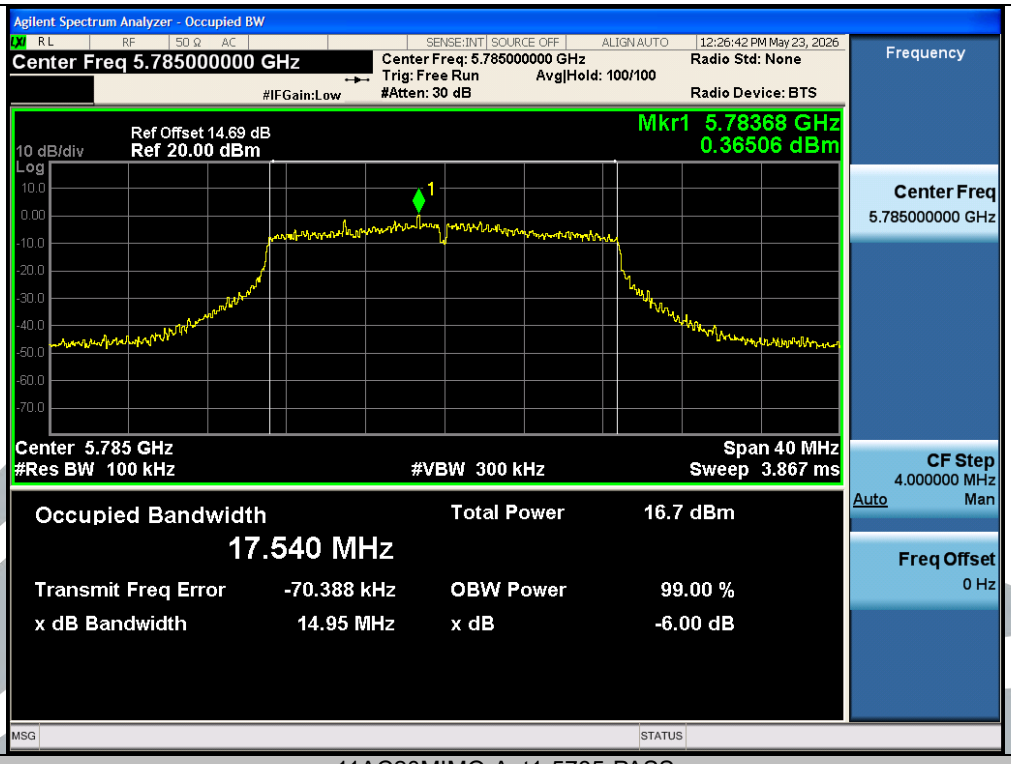

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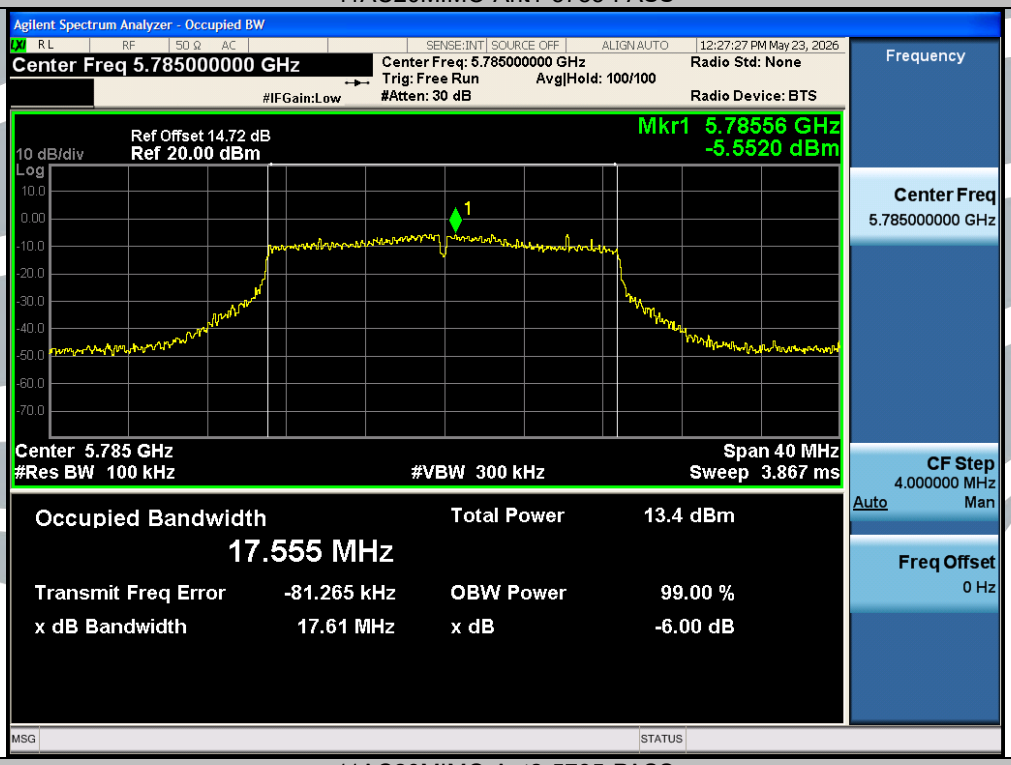

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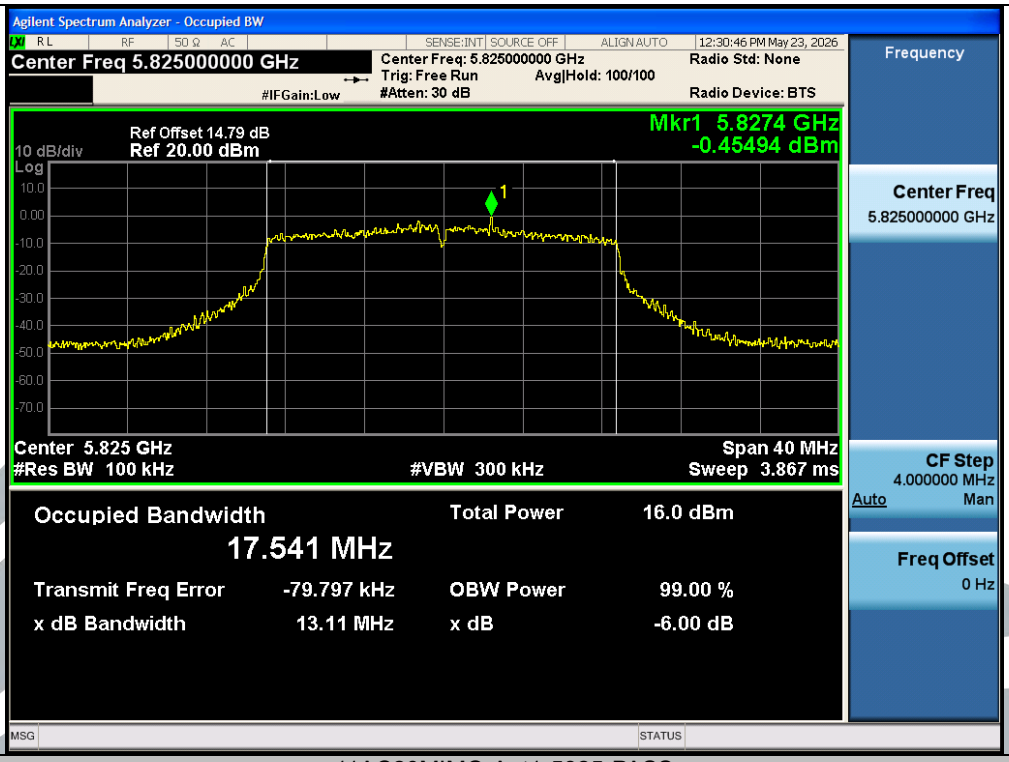

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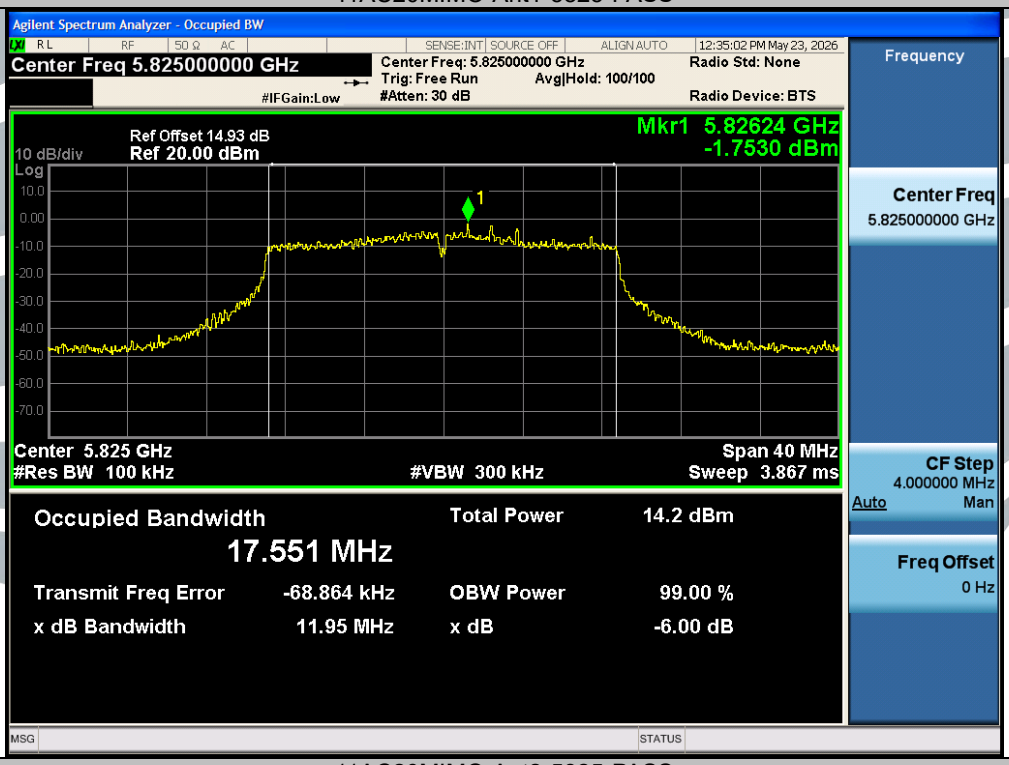

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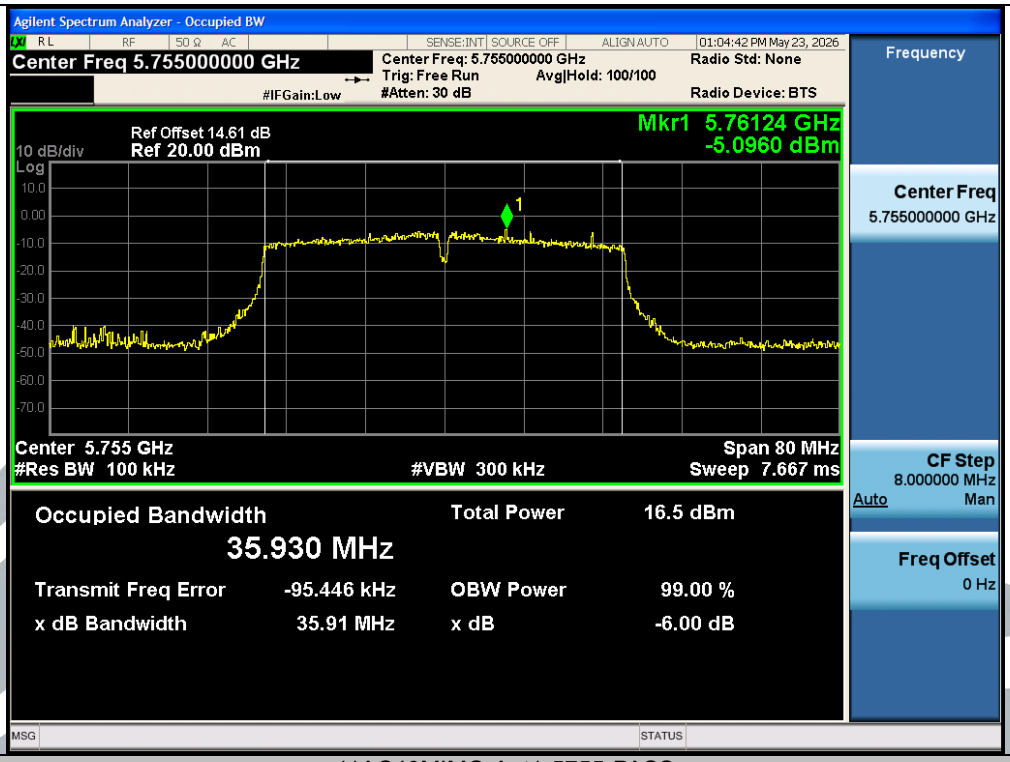

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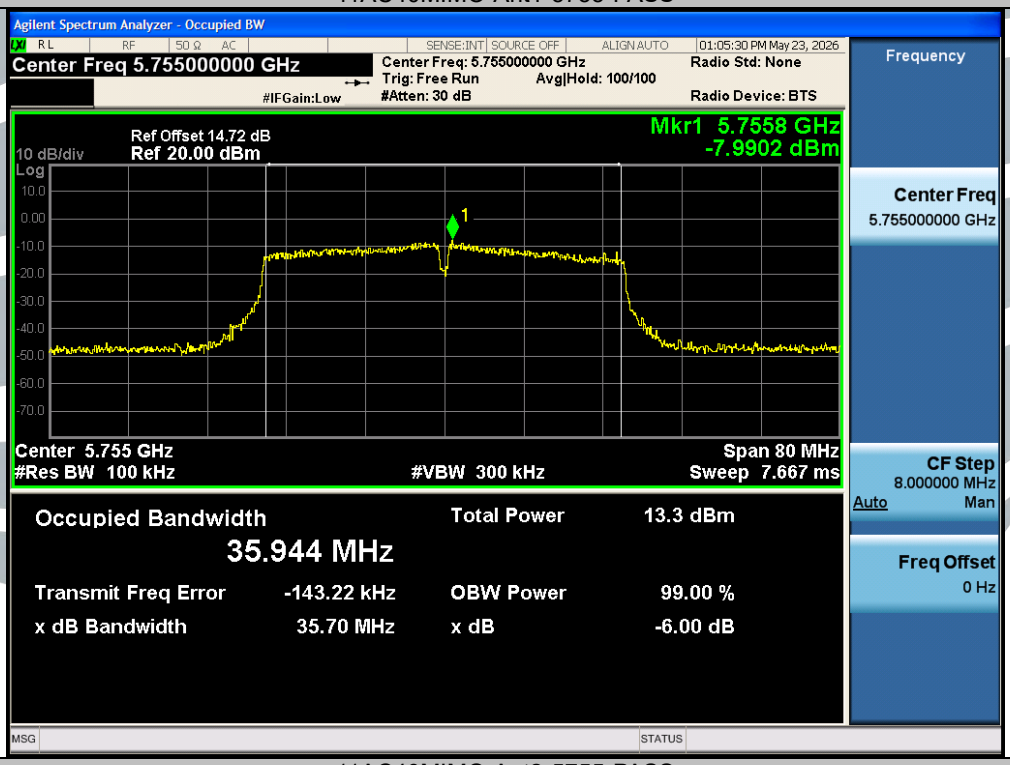

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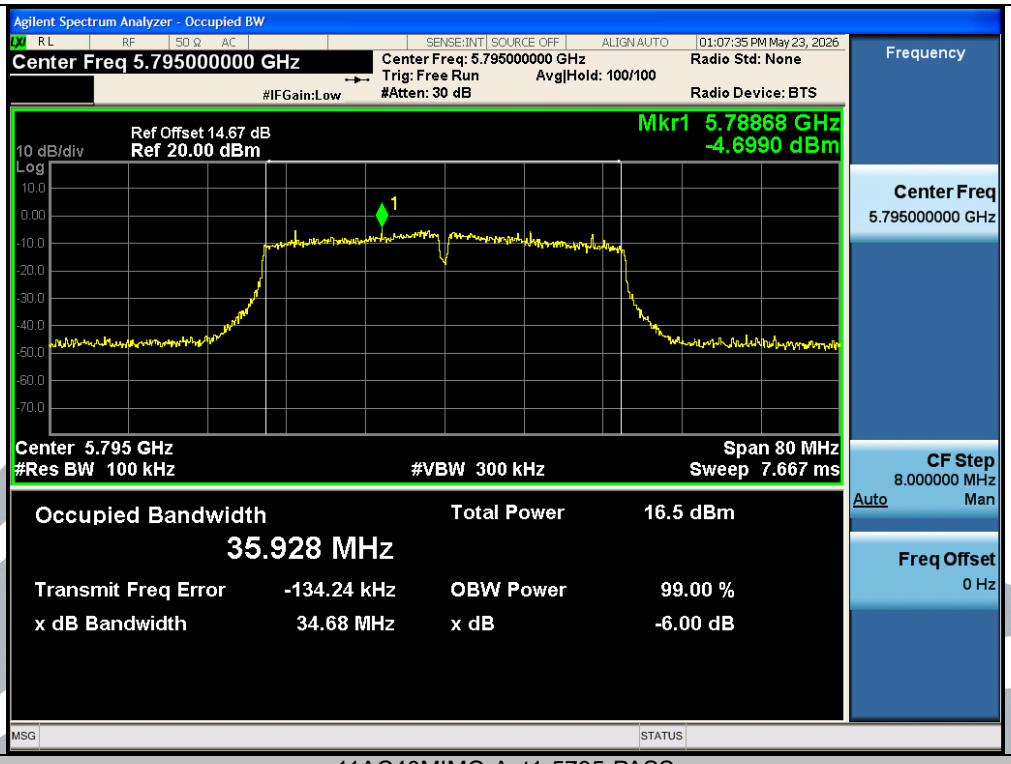

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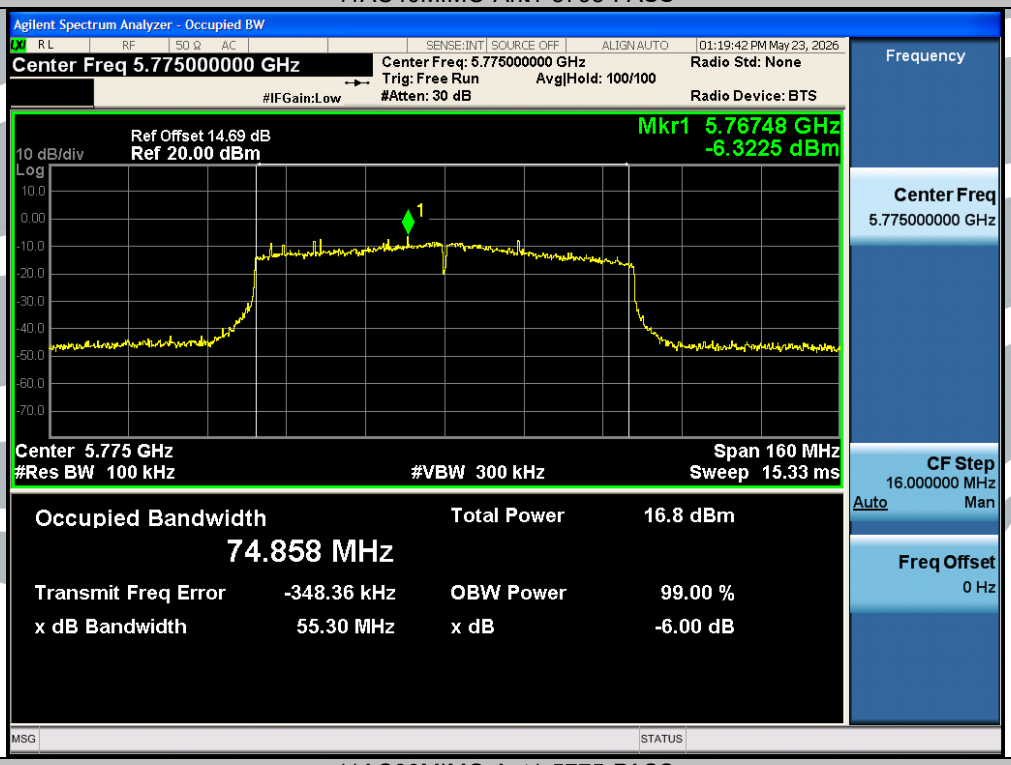

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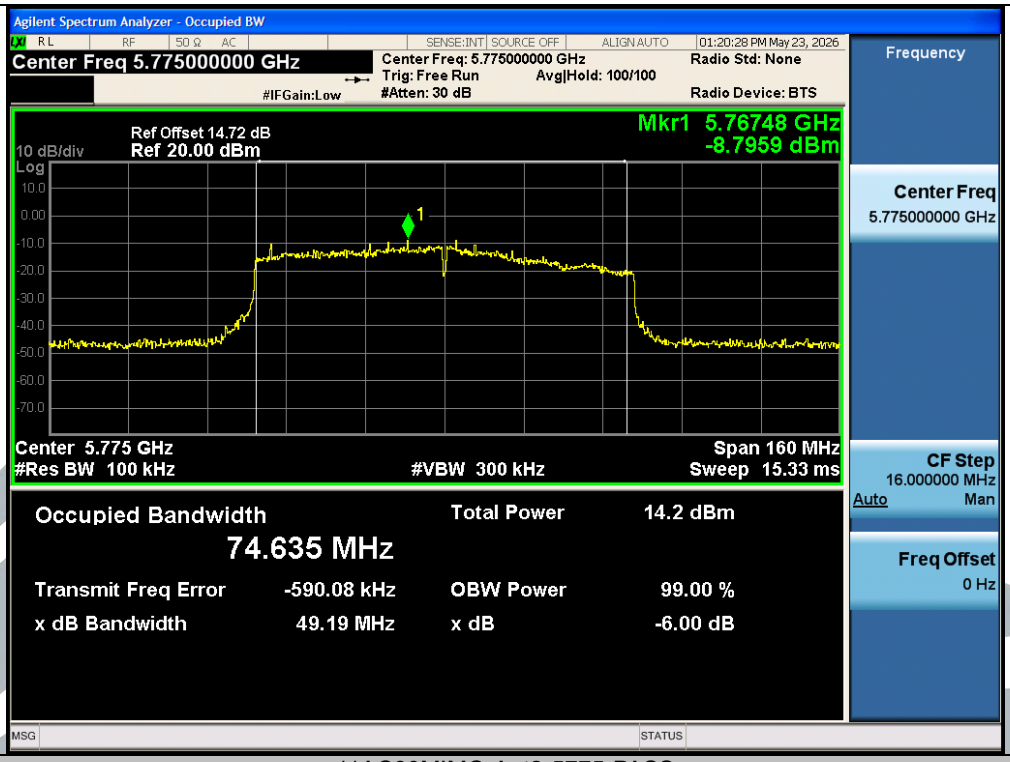
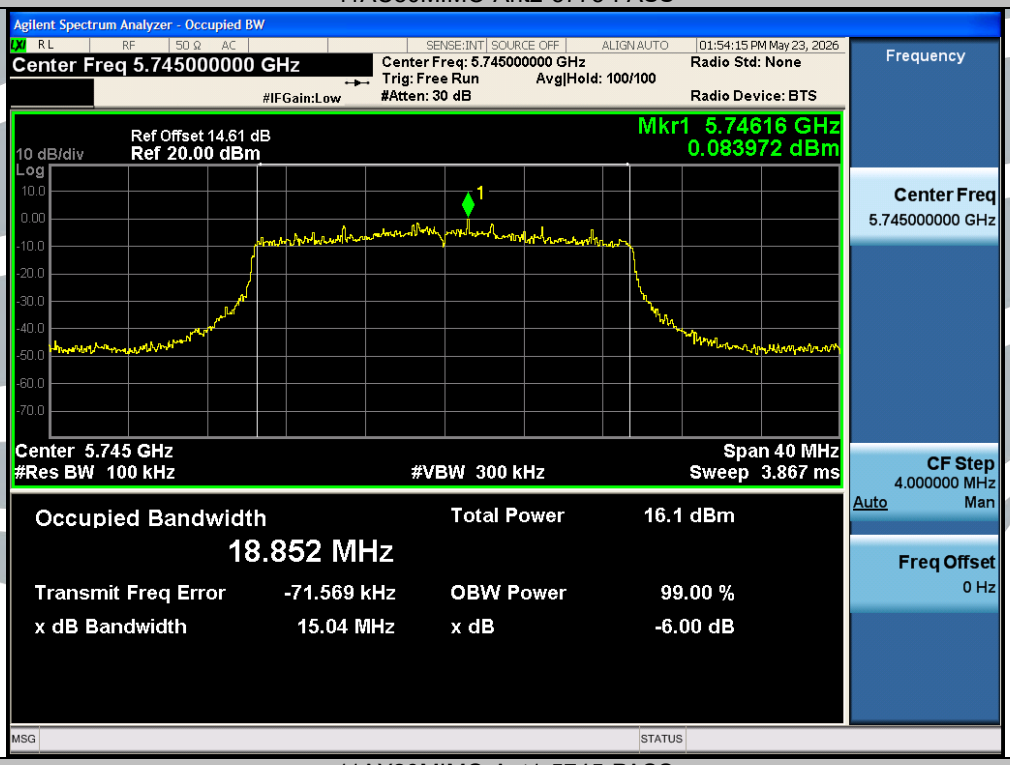


11AC80MIMO-Ant2-5775-PASS



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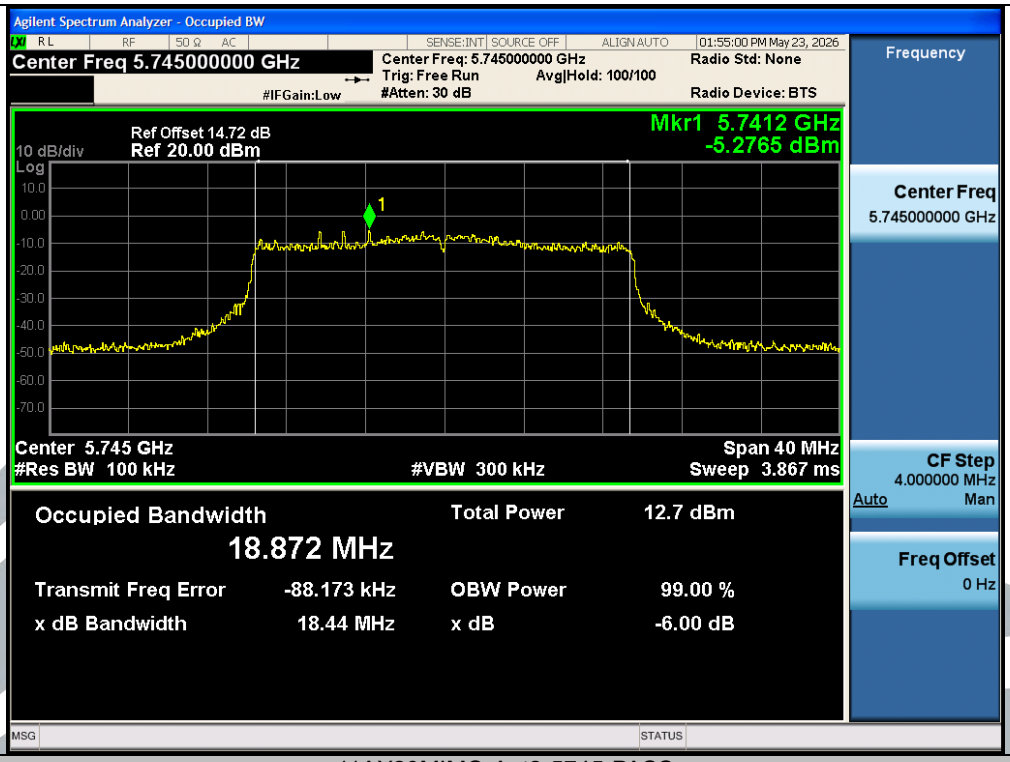

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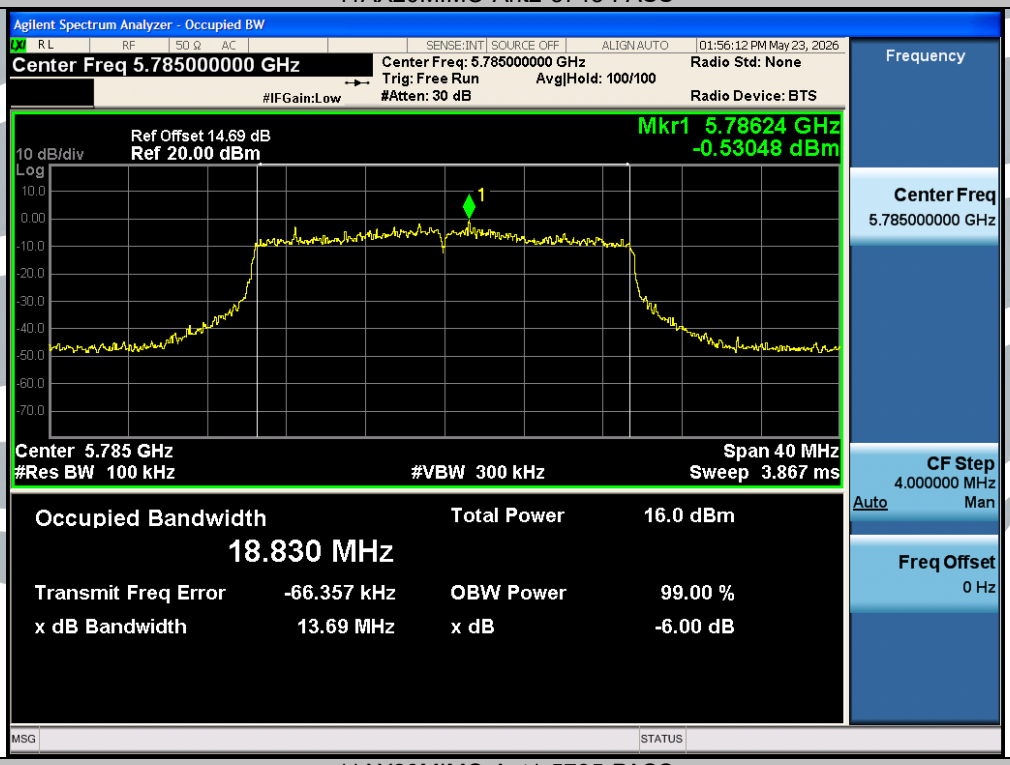

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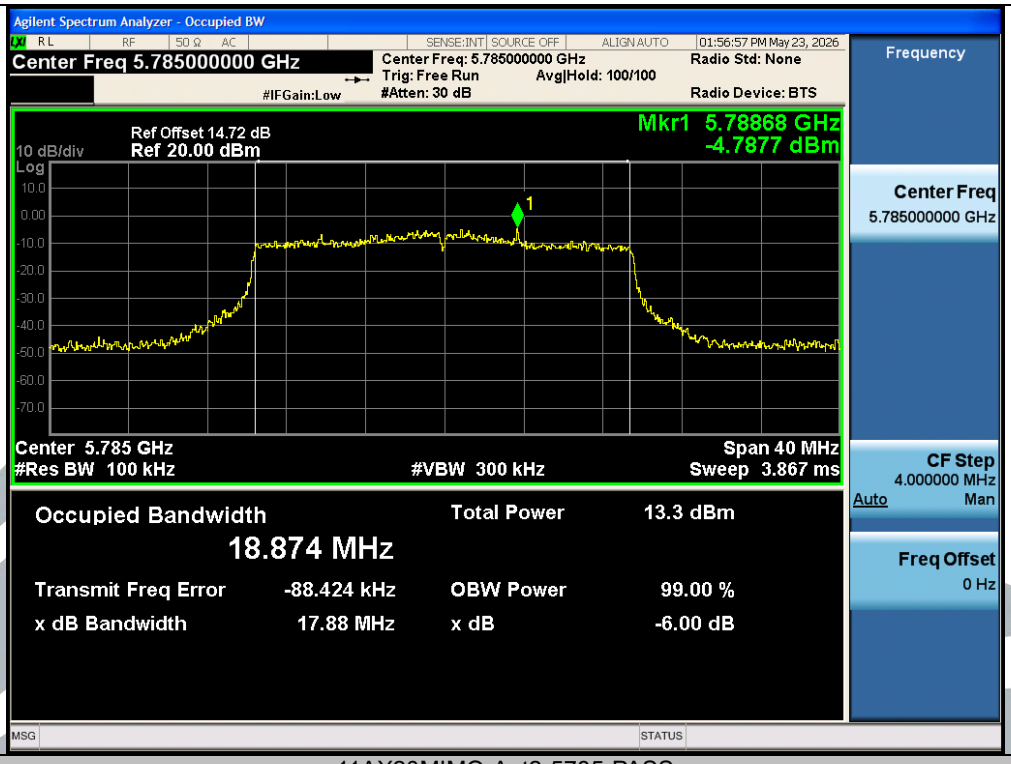

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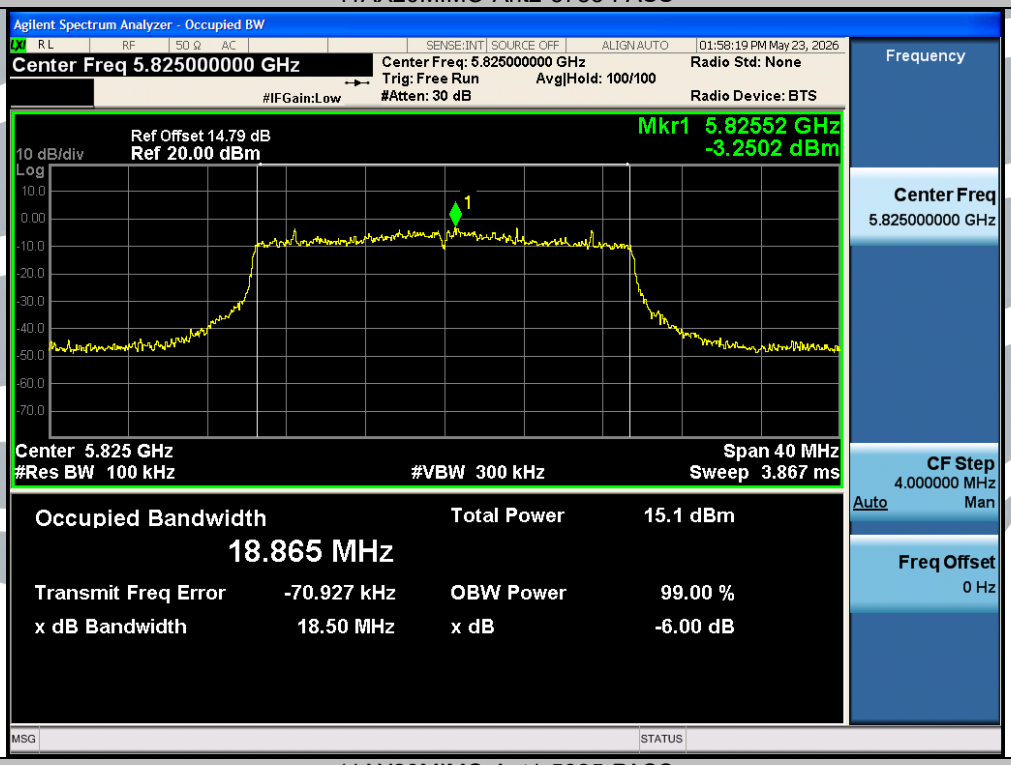

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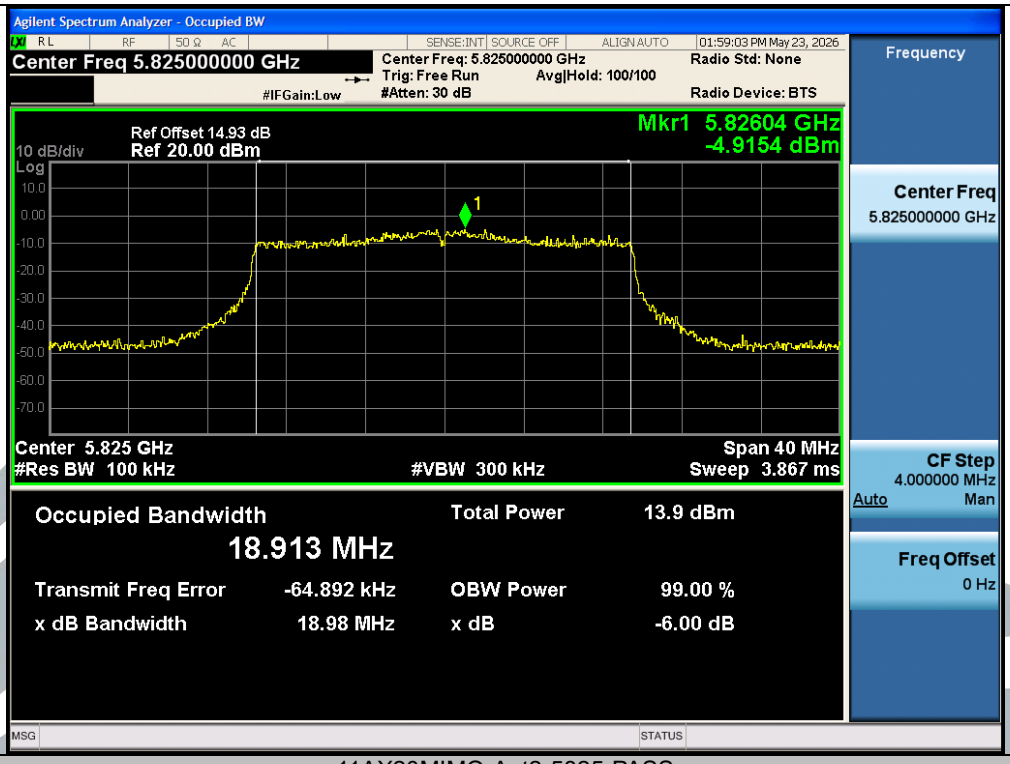
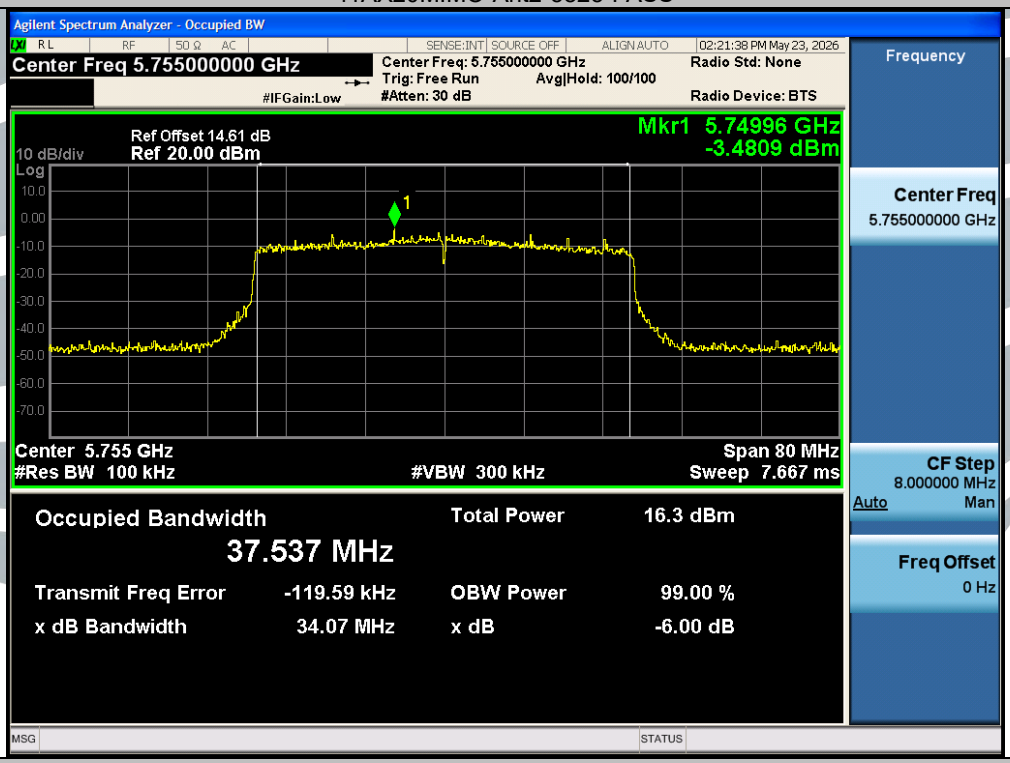
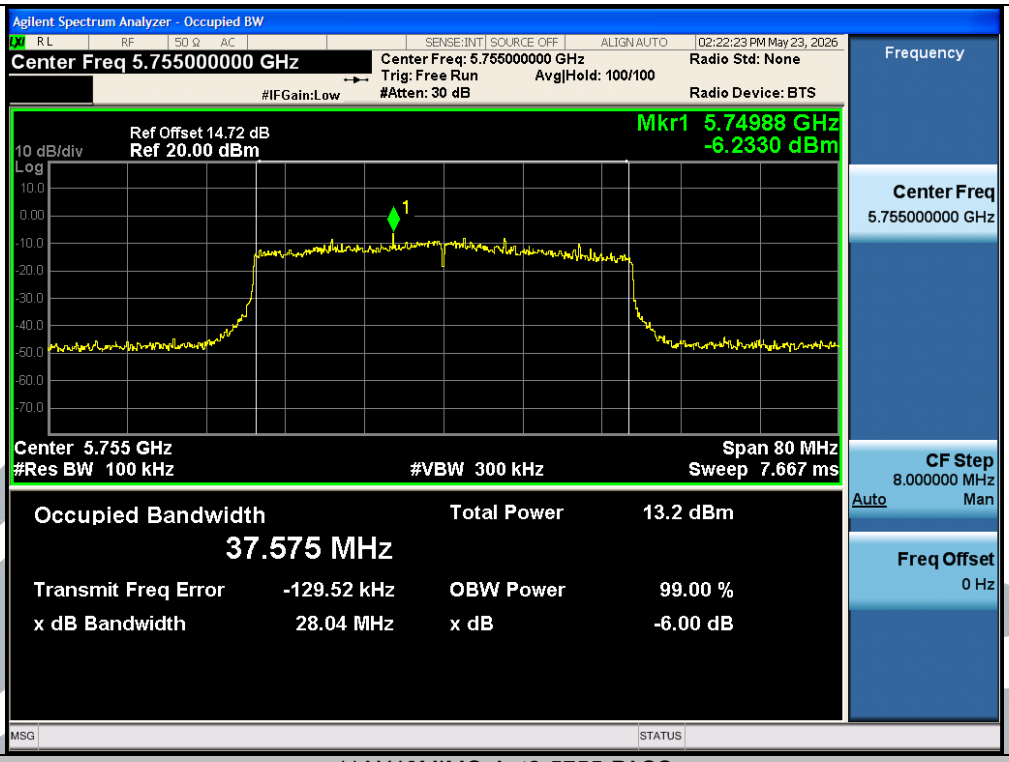


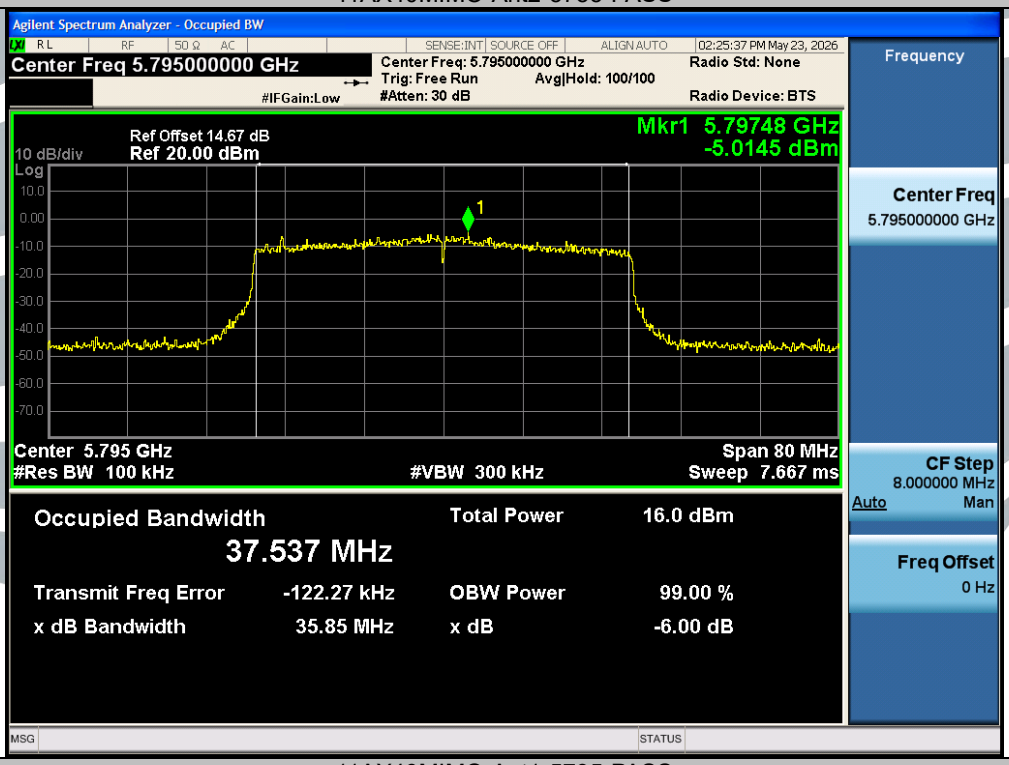
11AX20MIMO-Ant2-5825-PASS



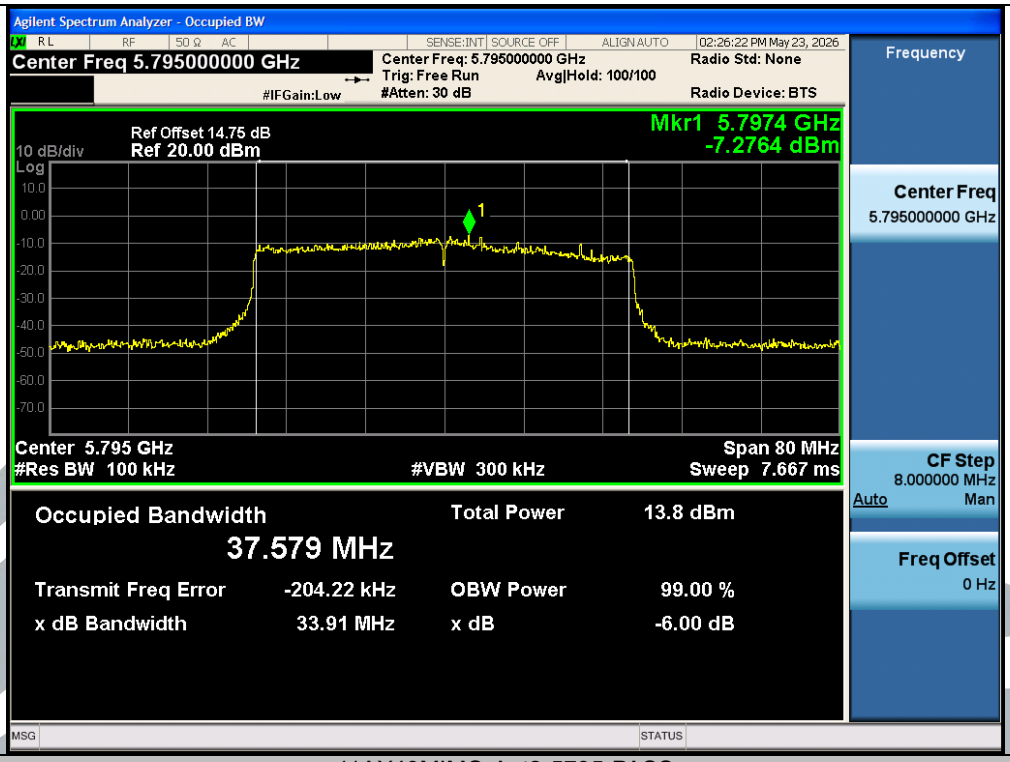
11AX40MIMO-Ant1-5755-PASS



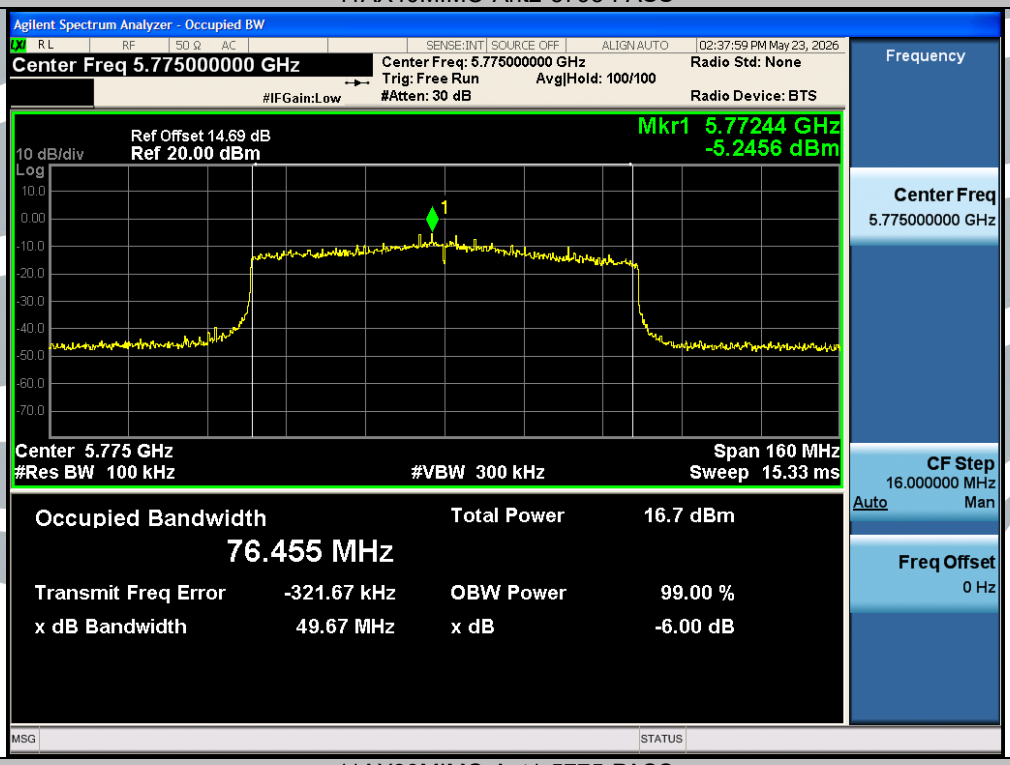
11AX40MIMO-Ant2-5755-PASS



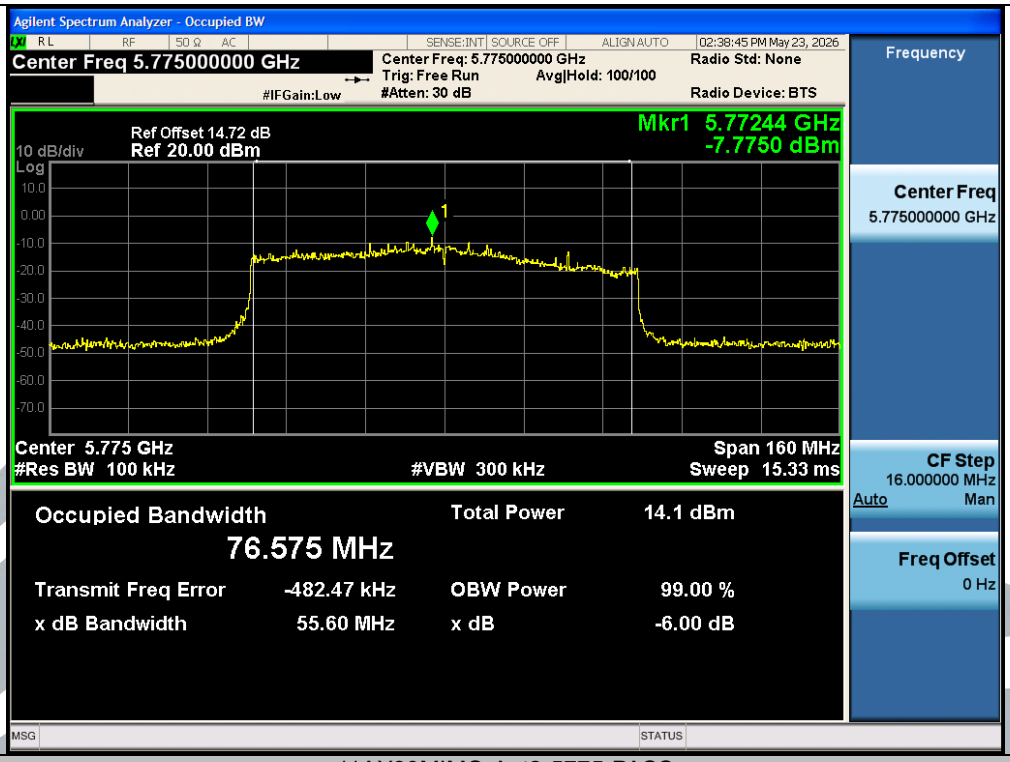
11AX40MIMO-Ant1-5795-PASS



11AX40MIMO-Ant2-5795-PASS



11AX80MIMO-Ant1-5775-PASS



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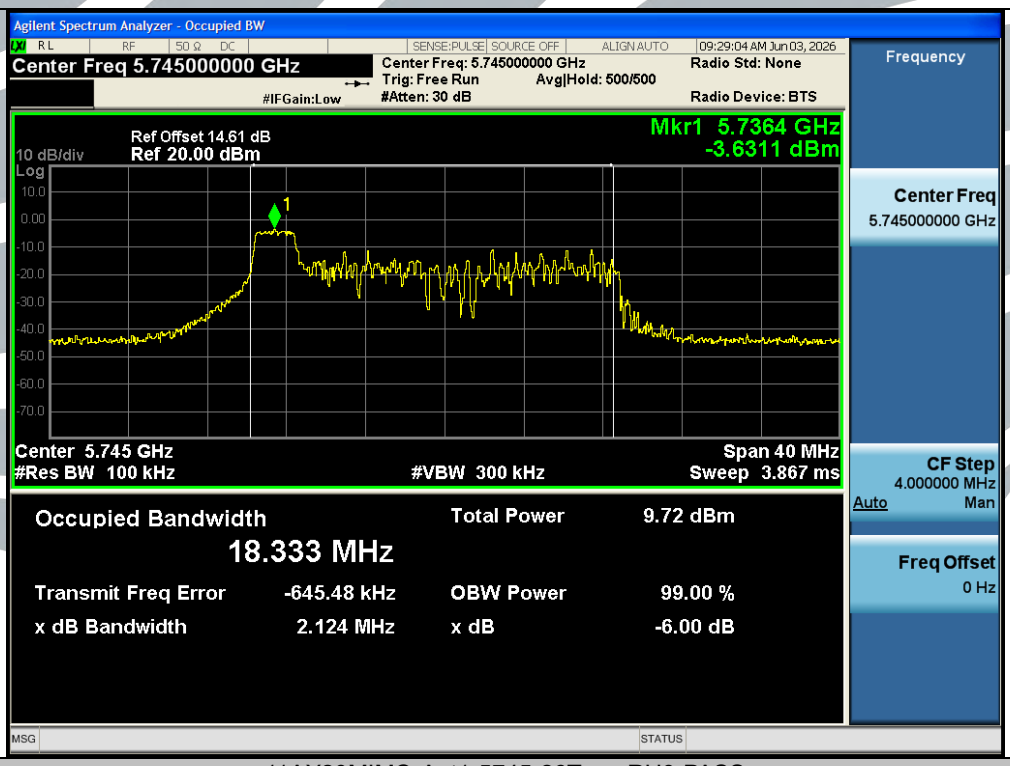
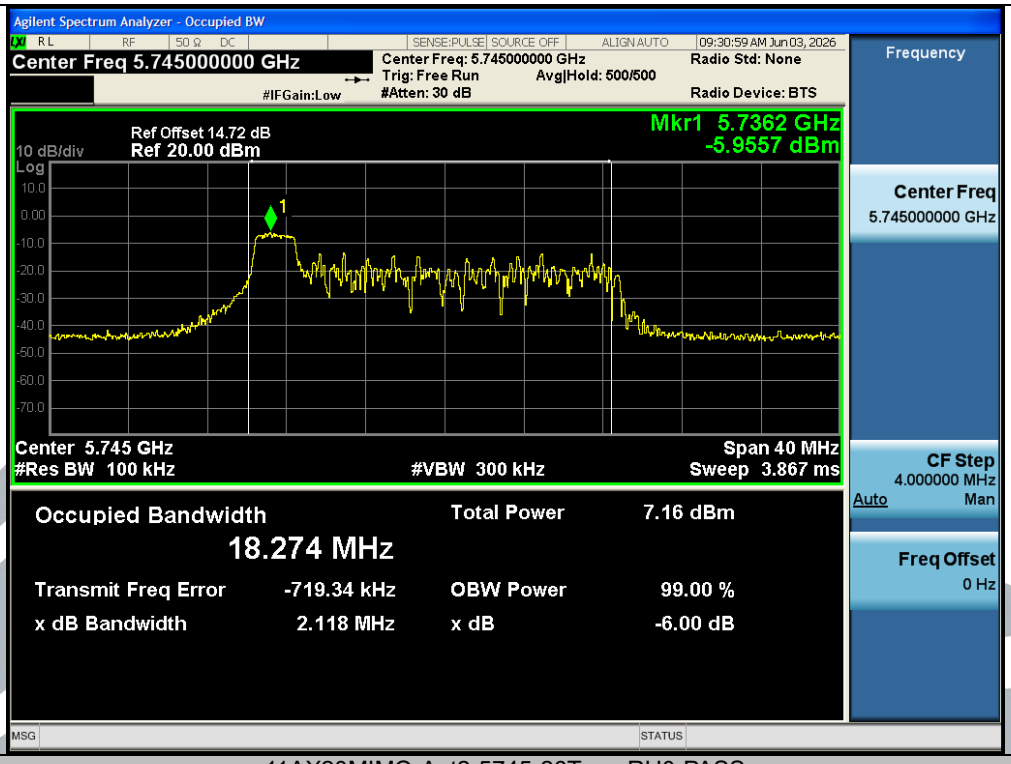
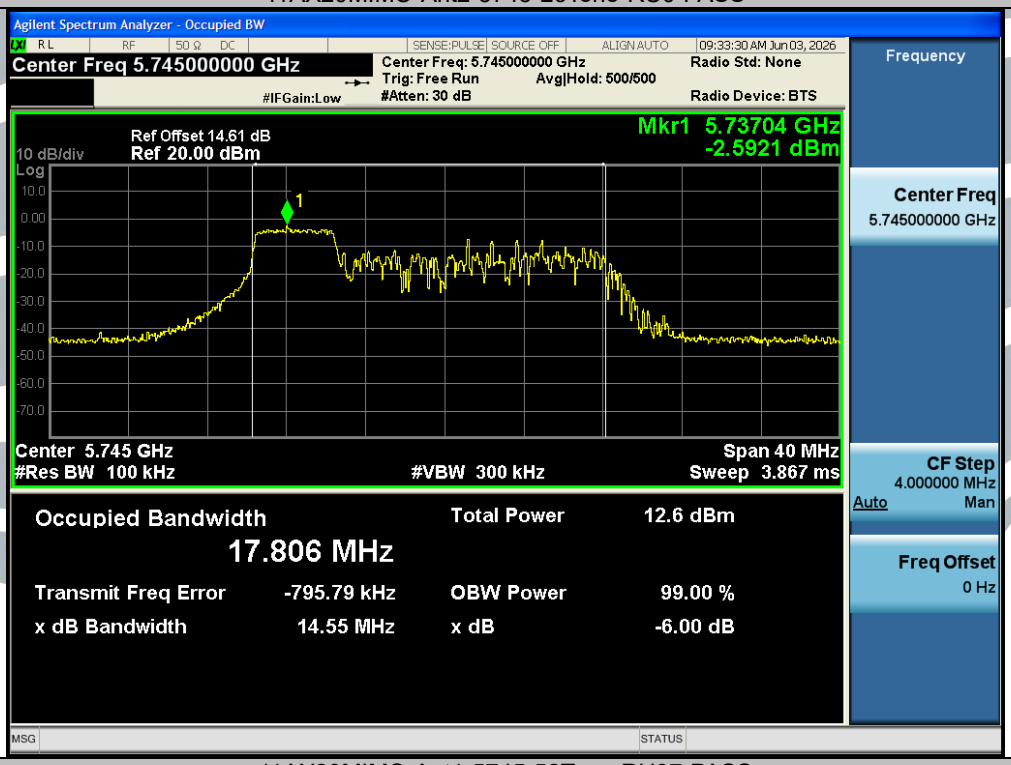


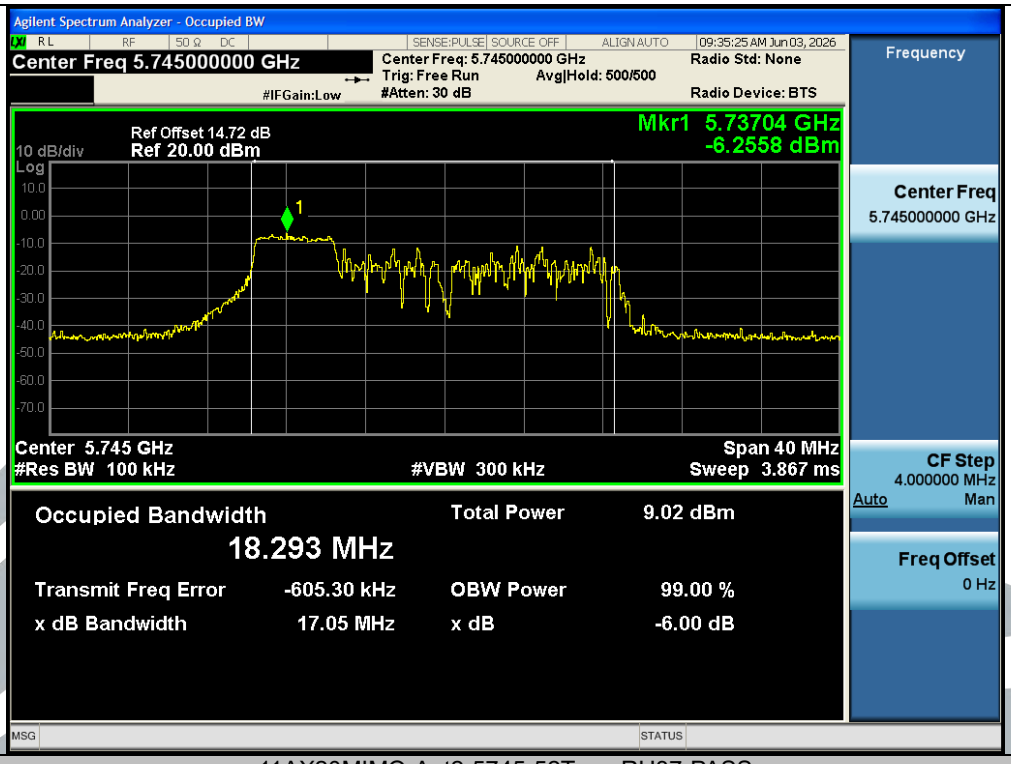
11AX20MIMO-Ant1-5745-26Tone-RU0-PASS



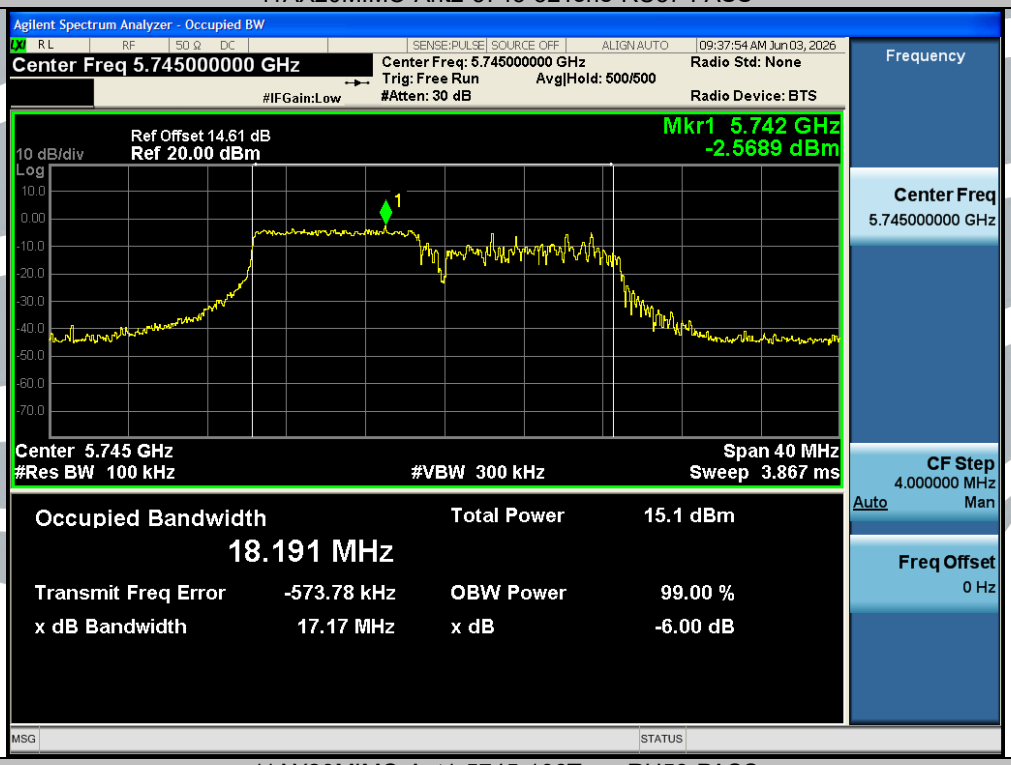
11AX20MIMO-Ant2-5745-26Tone-RU0-PASS



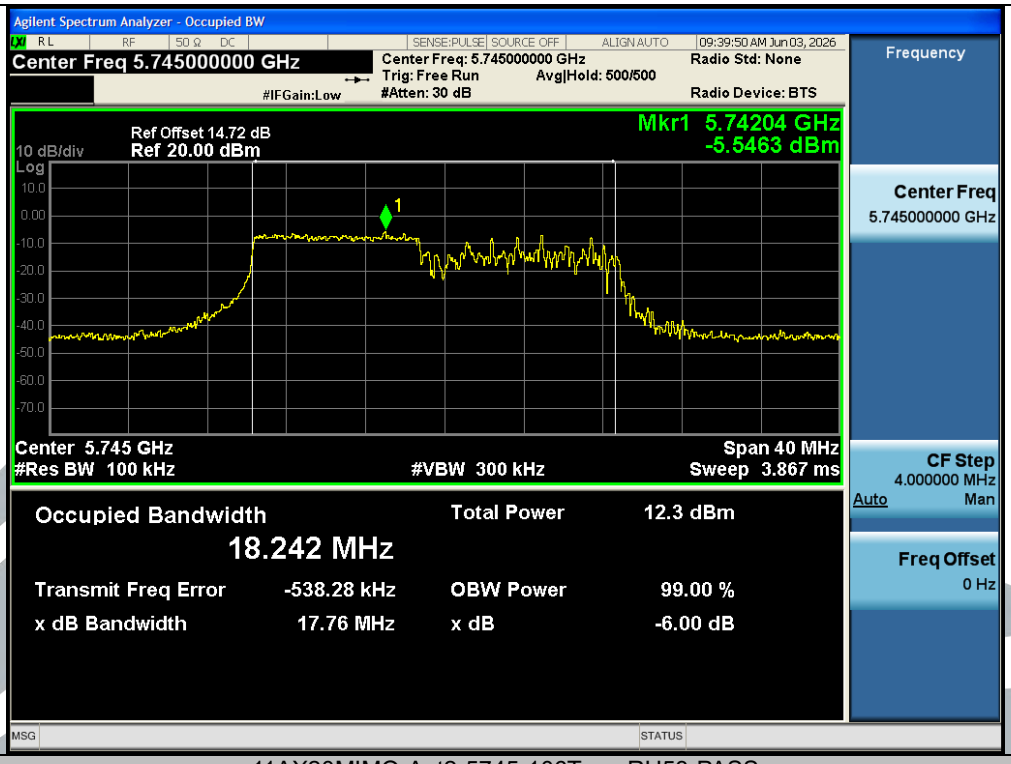
11AX20MIMO-Ant1-5745-52Tone-RU37-PASS



11AX20MIMO-Ant2-5745-52Tone-RU37-PASS



11AX20MIMO-Ant1-5745-106Tone-RU53-PASS



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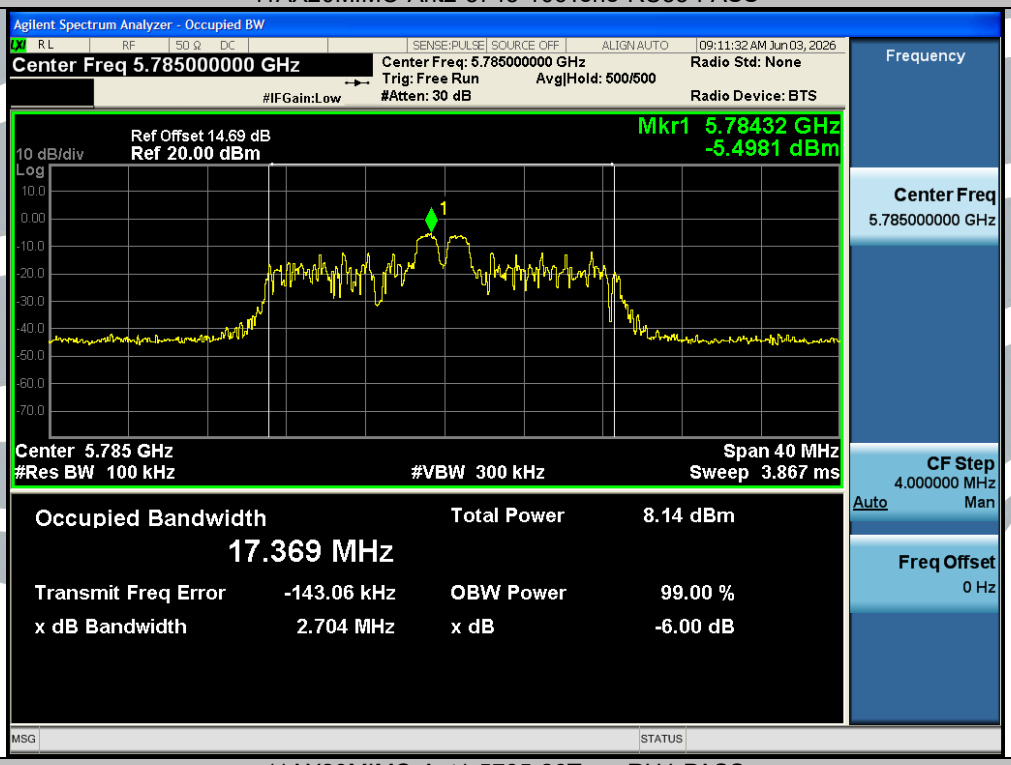
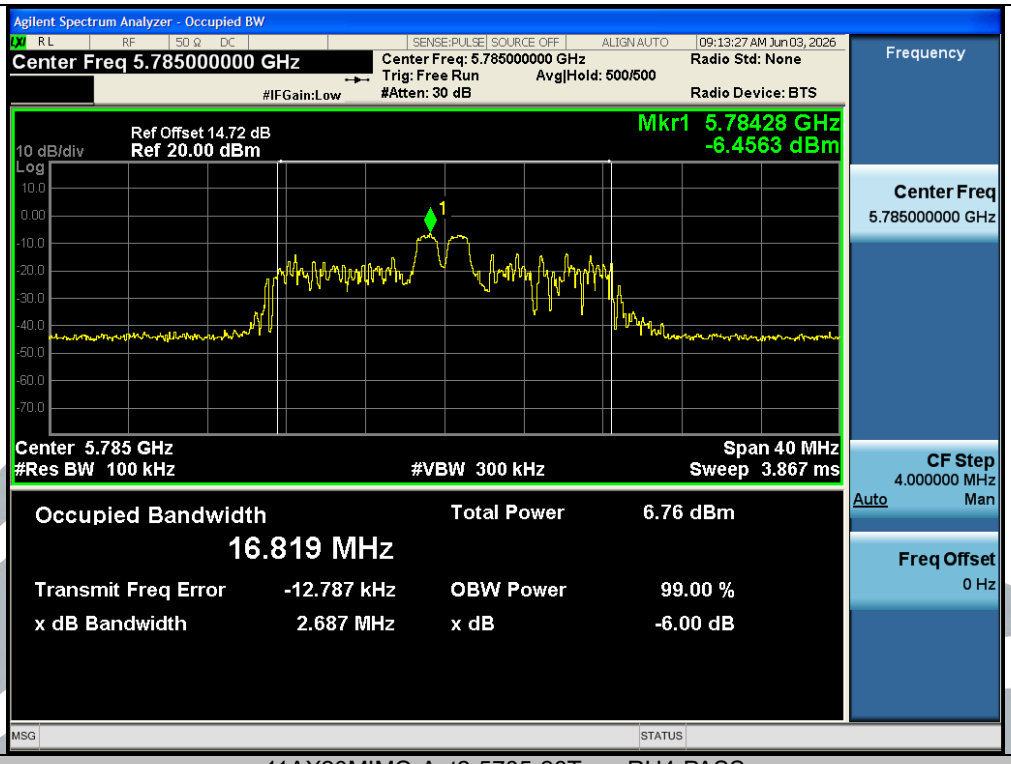


11AX20MIMO-Ant1-5785-26Tone-RU4-PASS



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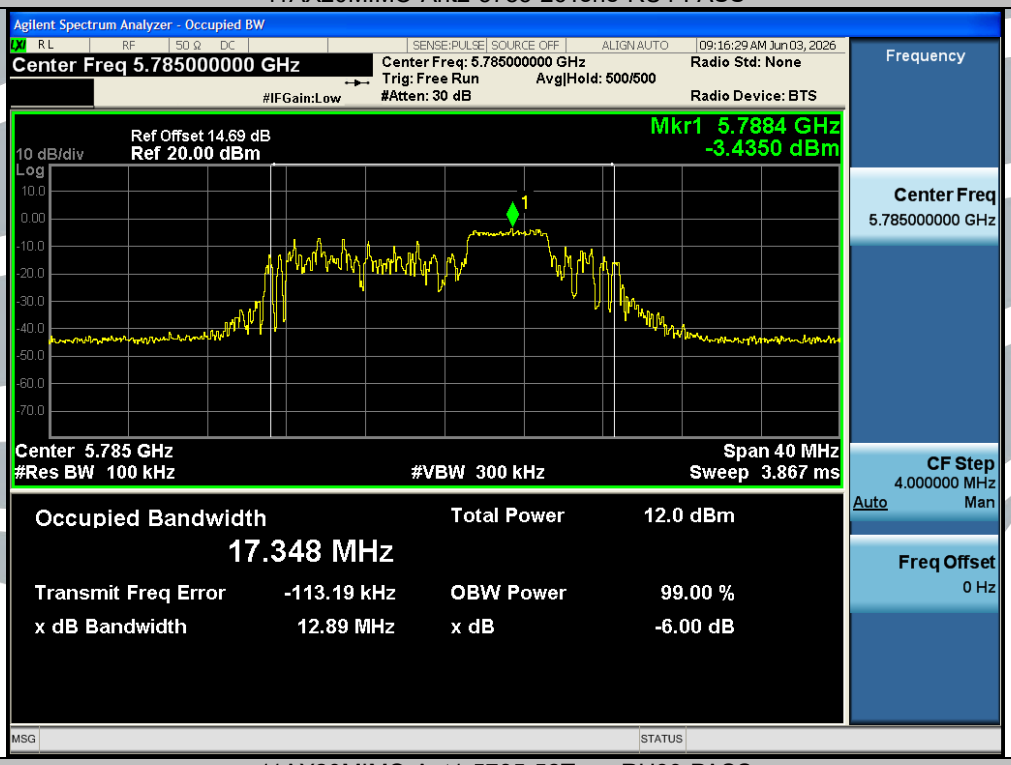
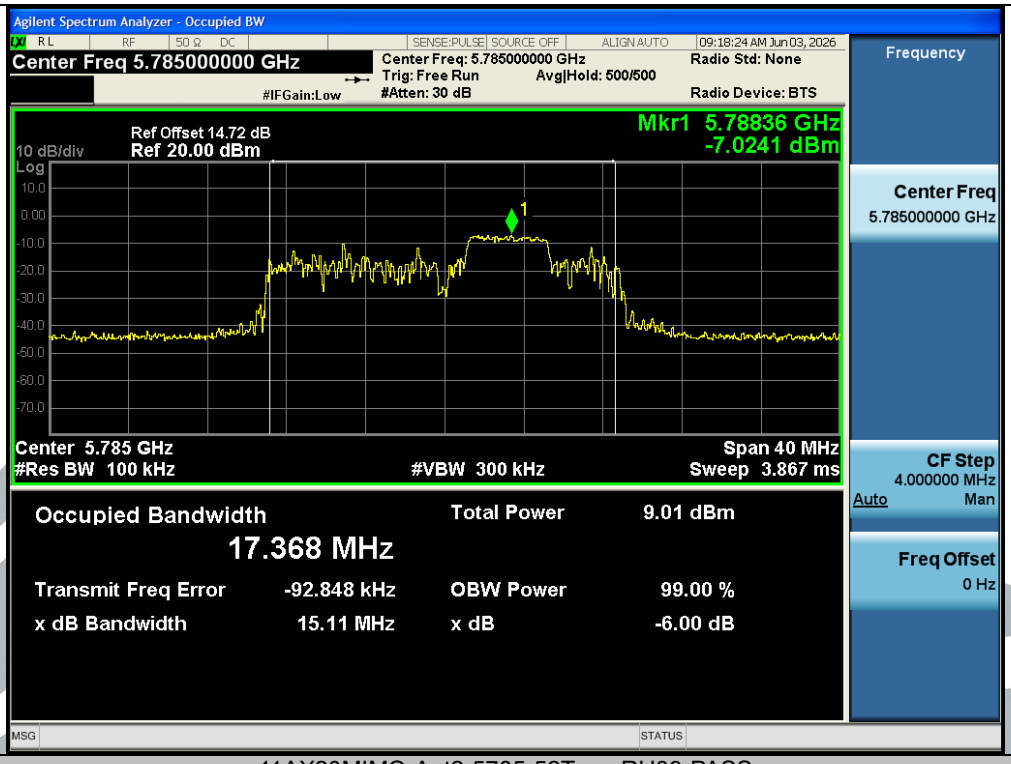


11AX20MIMO-Ant1-5785-52Tone-RU39-PASS



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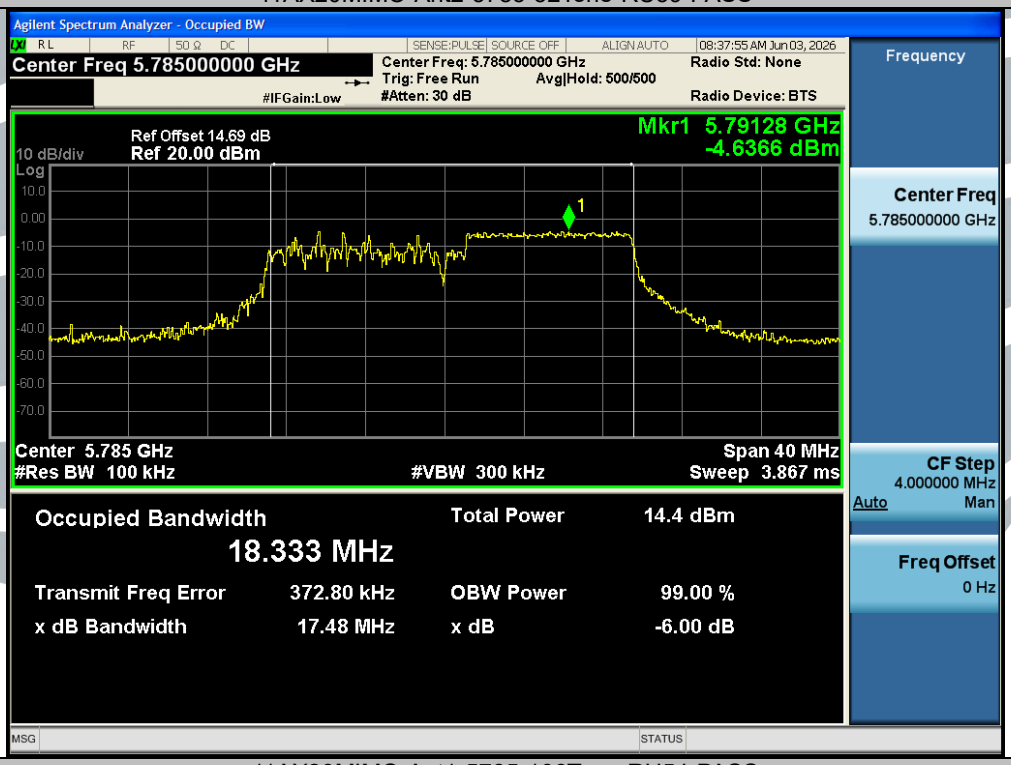
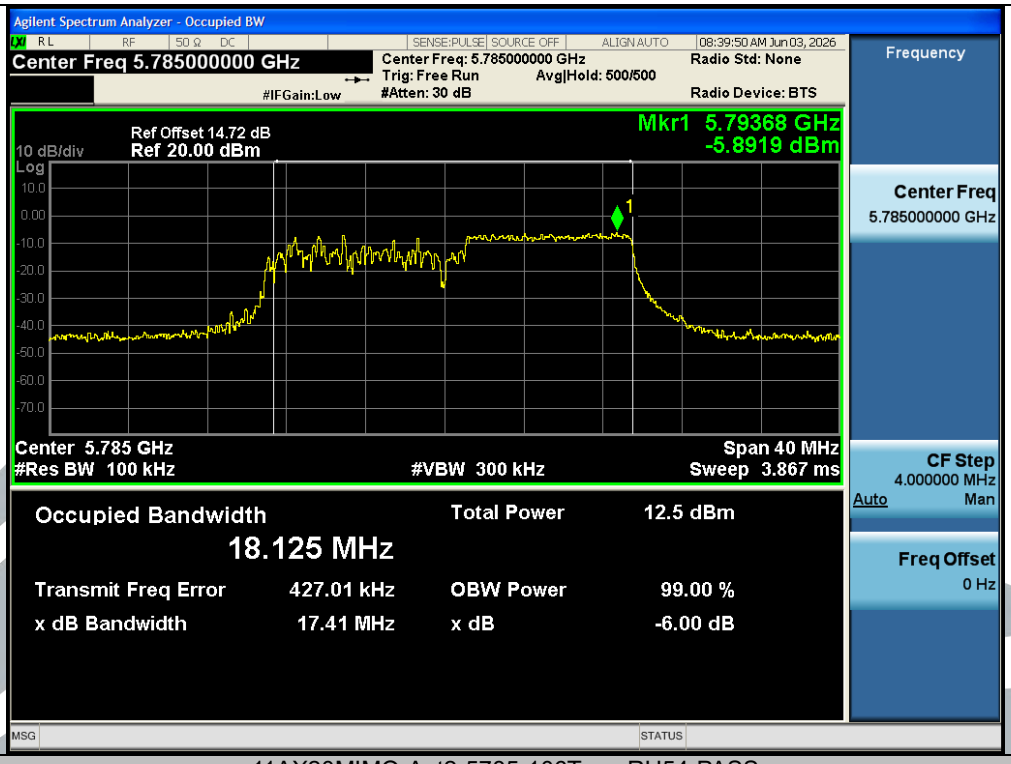
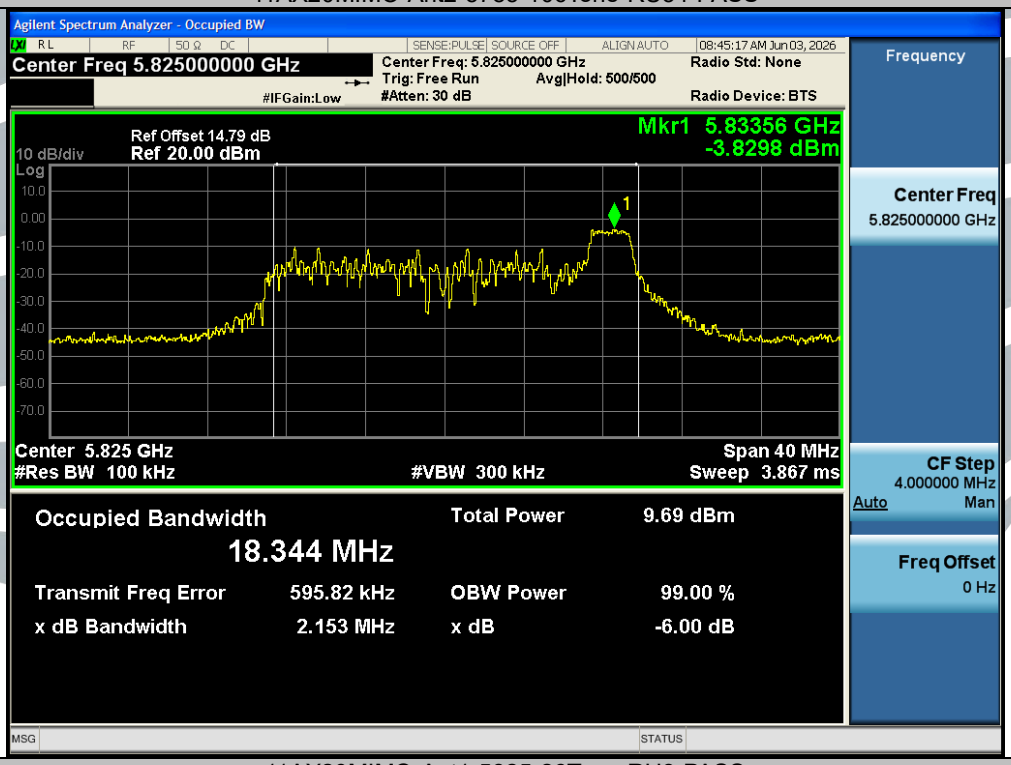


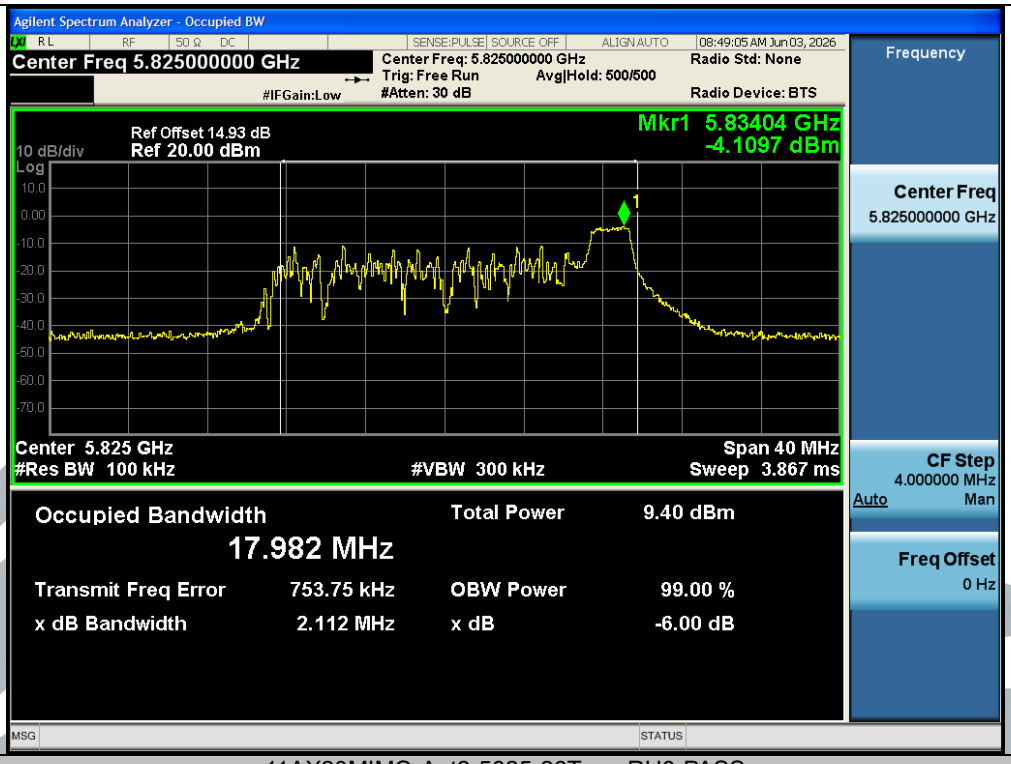
11AX20MIMO-Ant1-5785-106Tone-RU54-PASS



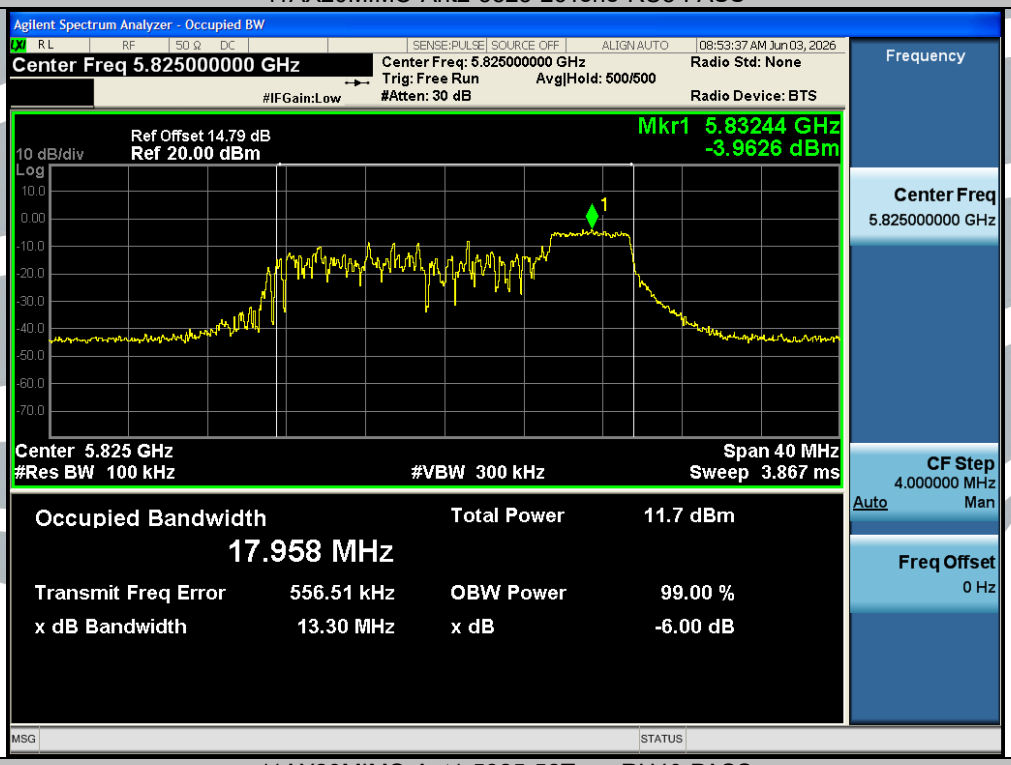
11AX20MIMO-Ant2-5785-106Tone-RU54-PASS



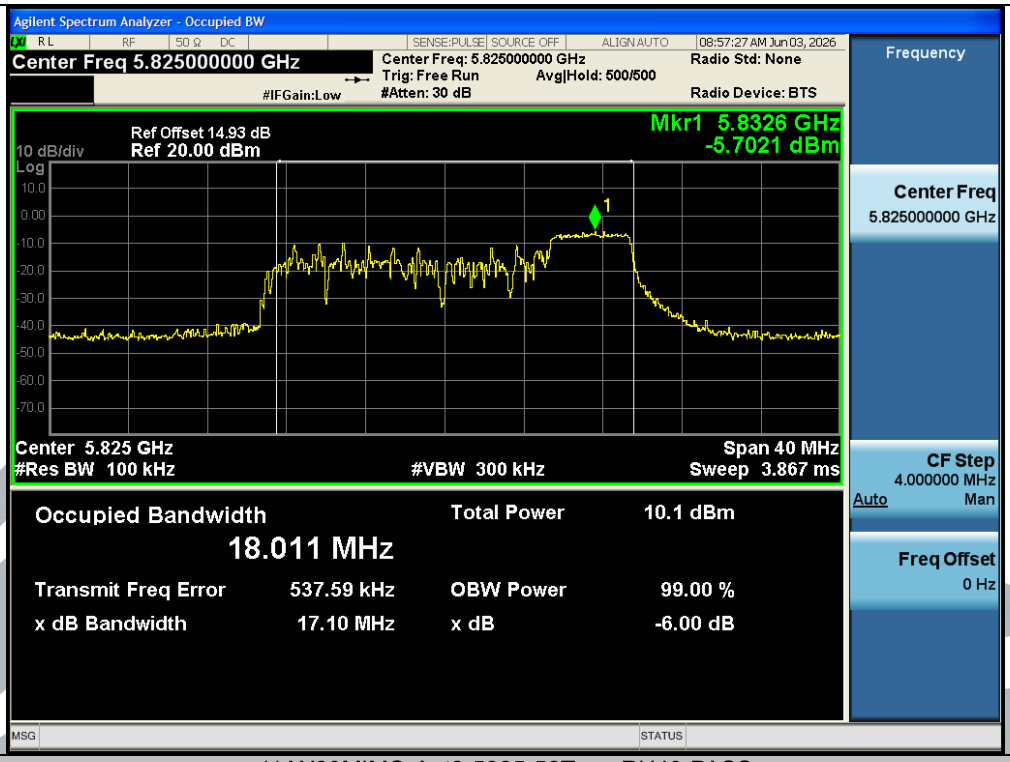
11AX20MIMO-Ant1-5825-26Tone-RU8-PASS



11AX20MIMO-Ant2-5825-26Tone-RU8-PASS



11AX20MIMO-Ant1-5825-52Tone-RU40-PASS



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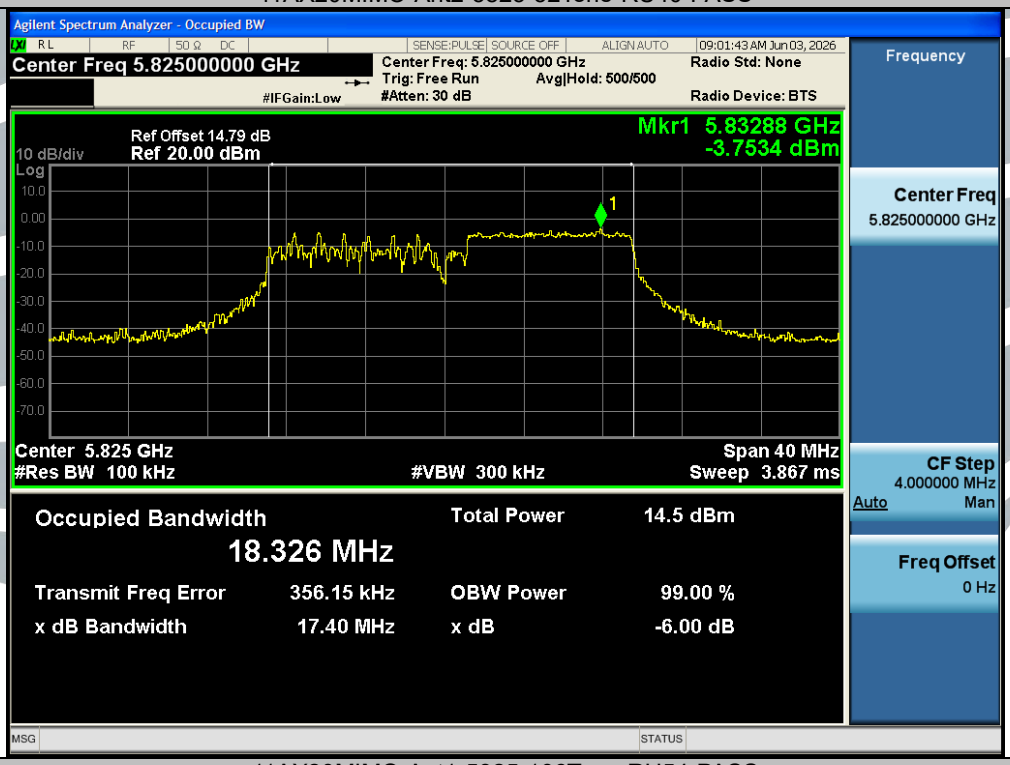

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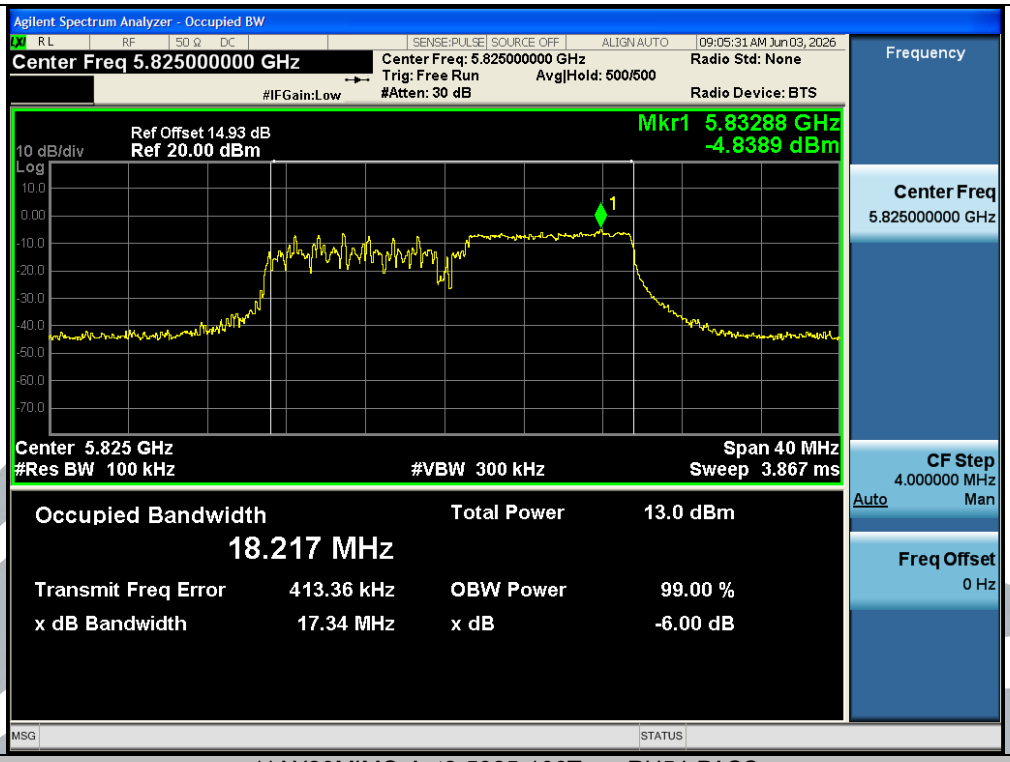


11AX20MIMO-Ant2-5825-106Tone-RU54-PASS

5.5 OCCUPIED BANDWIDTH

Test Requirement: None; for reporting purposes only.
Test Method: ANSI C63.10-2020 Clause 6.9.3
Limit: None; for reporting purposes only.

Test Procedure:
The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.

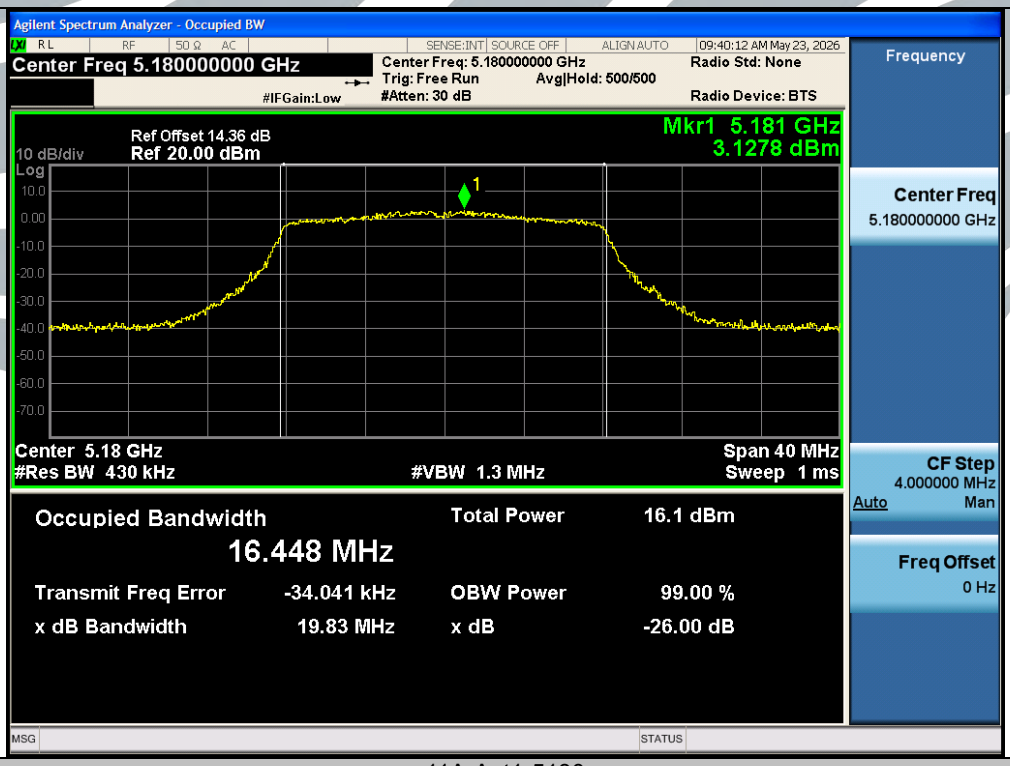
a) Set RBW = 1% to 5% of the occupied bandwidth
b) Set the video bandwidth (VBW) ≥ 3 x RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup: Refer to section 4.5.3 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Tx mode
Test Results:

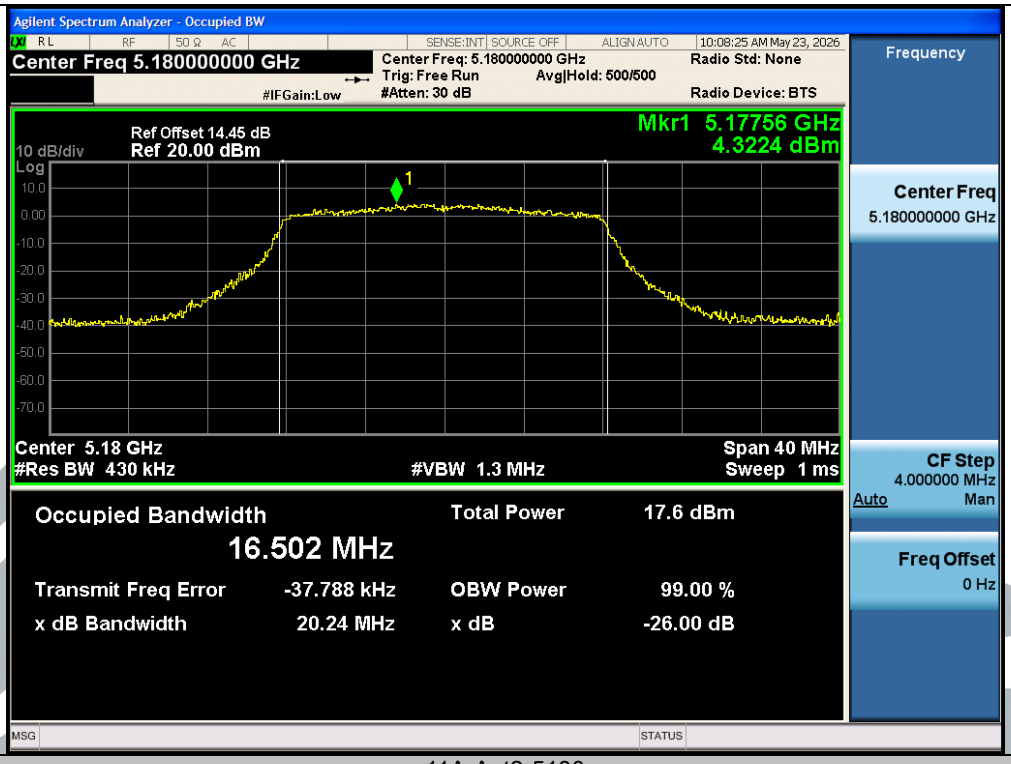
Test Mode	RU&Index	Frequency [MHz]	OBW [MHz]	
			Chain 0	Chain 1
11A	--	5180	16.448	16.502
11A	--	5200	16.465	16.450
11A	--	5240	16.463	16.502
11A	--	5260	16.478	16.442
11A	--	5280	16.481	16.464
11A	--	5320	16.512	16.484
11A	--	5500	16.473	16.472
11A	--	5600	16.470	16.482
11A	--	5700	16.473	16.463
11A	--	5745	16.480	16.463
11A	--	5785	16.449	16.476
11A	--	5825	16.460	16.461
11N20MIMO	--	5180	17.644	17.677
11N20MIMO	--	5200	17.623	17.567
11N20MIMO	--	5240	17.630	17.619
11N20MIMO	--	5260	17.635	17.635
11N20MIMO	--	5280	17.628	17.622
11N20MIMO	--	5320	17.639	17.668
11N20MIMO	--	5500	17.636	17.598
11N20MIMO	--	5600	17.642	17.628
11N20MIMO	--	5700	17.624	17.703
11N20MIMO	--	5745	17.632	17.643
11N20MIMO	--	5785	17.625	17.680
11N20MIMO	--	5825	17.627	17.675
11N40MIMO	--	5190	36.041	36.065
11N40MIMO	--	5230	35.993	36.020
11N40MIMO	--	5270	36.006	36.011
11N40MIMO	--	5310	35.996	36.161
11N40MIMO	--	5510	35.954	35.859
11N40MIMO	--	5590	36.003	35.947
11N40MIMO	--	5670	36.023	36.153
11N40MIMO	--	5755	35.973	35.982
11N40MIMO	--	5795	35.975	36.060
11AC20MIMO	--	5180	17.617	17.666
11AC20MIMO	--	5200	17.665	17.601

Test Mode	RU&Index	Frequency [MHz]	OBW [MHz]	
			Chain 0	Chain 1
11AC20MIMO	--	5240	17.636	17.652
11AC20MIMO	--	5260	17.624	17.607
11AC20MIMO	--	5280	17.624	17.645
11AC20MIMO	--	5320	17.636	17.656
11AC20MIMO	--	5500	17.638	17.640
11AC20MIMO	--	5600	17.641	17.618
11AC20MIMO	--	5700	17.629	17.674
11AC20MIMO	--	5745	17.604	17.634
11AC20MIMO	--	5785	17.640	17.656
11AC20MIMO	--	5825	17.633	17.697
11AC40MIMO	--	5190	36.081	36.137
11AC40MIMO	--	5230	36.071	36.026
11AC40MIMO	--	5270	36.038	36.022
11AC40MIMO	--	5310	35.977	36.235
11AC40MIMO	--	5510	35.975	35.787
11AC40MIMO	--	5590	36.021	35.952
11AC40MIMO	--	5670	36.046	36.049
11AC40MIMO	--	5755	35.984	36.055
11AC40MIMO	--	5795	35.995	35.986
11AC80MIMO	--	5210	75.207	74.502
11AC80MIMO	--	5290	74.874	75.517
11AC80MIMO	--	5530	75.089	75.510
11AC80MIMO	--	5610	74.946	74.435
11AC80MIMO	--	5775	74.953	74.507
11AC160MIMO	--	5250	154.500	153.650
11AC160MIMO	--	5570	154.050	155.050
11AX20MIMO	SU	5180	18.915	18.973
11AX20MIMO	SU	5200	18.902	18.915
11AX20MIMO	SU	5240	18.902	18.954
11AX20MIMO	SU	5260	18.910	18.901
11AX20MIMO	SU	5280	18.899	18.935
11AX20MIMO	SU	5320	18.921	18.944
11AX20MIMO	SU	5500	18.958	18.912
11AX20MIMO	SU	5600	18.942	18.972
11AX20MIMO	SU	5700	18.898	18.982
11AX20MIMO	SU	5745	18.945	18.917
11AX20MIMO	SU	5785	18.949	18.957
11AX20MIMO	SU	5825	18.922	18.999
11AX40MIMO	SU	5190	37.764	37.733
11AX40MIMO	SU	5230	37.646	37.660
11AX40MIMO	SU	5270	37.675	37.607
11AX40MIMO	SU	5310	37.695	37.885
11AX40MIMO	SU	5510	37.645	37.384
11AX40MIMO	SU	5590	37.764	37.597
11AX40MIMO	SU	5670	37.617	37.767
11AX40MIMO	SU	5755	37.682	37.735
11AX40MIMO	SU	5795	37.661	37.719
11AX80MIMO	SU	5210	76.886	76.447
11AX80MIMO	SU	5290	76.514	77.297
11AX80MIMO	SU	5530	76.924	77.432
11AX80MIMO	SU	5610	76.747	76.418
11AX80MIMO	SU	5775	76.622	76.488
11AX160MIMO	SU	5250	155.510	155.520
11AX160MIMO	SU	5570	155.270	156.890
11AX20MIMO	26RU0	5180	18.817	18.821
11AX20MIMO	52RU37	5180	18.410	18.314
11AX20MIMO	106RU53	5180	18.504	18.460
11AX20MIMO	26RU4	5200	16.286	17.068
11AX20MIMO	52RU39	5200	16.447	17.017
11AX20MIMO	106RU54	5200	18.507	18.180

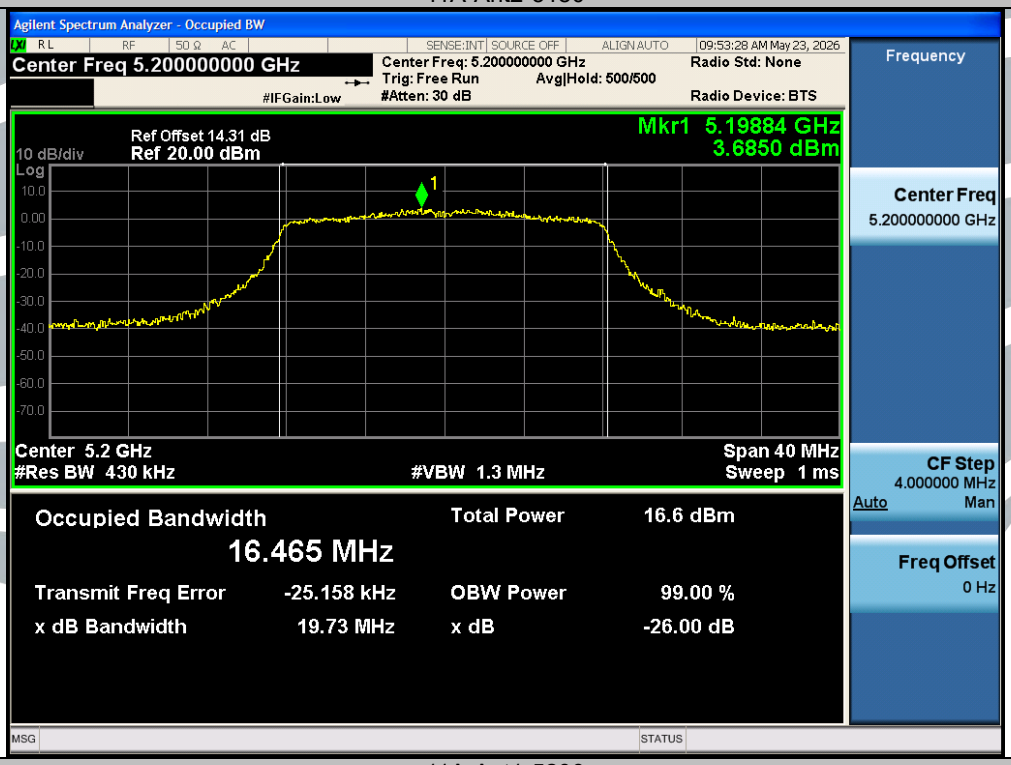
Test Mode	RU&Index	Frequency [MHz]	OBW [MHz]	
			Chain 0	Chain 1
11AX20MIMO	26RU8	5240	18.300	18.413
11AX20MIMO	52RU40	5240	18.558	18.278
11AX20MIMO	106RU54	5240	18.582	17.892
11AX20MIMO	26RU0	5260	17.553	18.096
11AX20MIMO	52RU37	5260	18.718	16.944
11AX20MIMO	106RU53	5260	18.490	18.456
11AX20MIMO	26RU4	5280	16.272	16.130
11AX20MIMO	52RU39	5280	16.415	16.500
11AX20MIMO	106RU54	5280	18.320	18.302
11AX20MIMO	26RU8	5320	19.009	18.999
11AX20MIMO	52RU40	5320	17.997	18.461
11AX20MIMO	106RU54	5320	18.497	18.419
11AX20MIMO	26RU0	5500	18.344	18.279
11AX20MIMO	52RU37	5500	18.783	18.445
11AX20MIMO	106RU53	5500	18.237	18.268
11AX20MIMO	26RU4	5600	16.137	17.130
11AX20MIMO	52RU39	5600	16.742	17.143
11AX20MIMO	106RU54	5600	18.547	18.101
11AX20MIMO	26RU8	5700	18.788	18.623
11AX20MIMO	52RU40	5700	18.578	18.351
11AX20MIMO	106RU54	5700	18.554	18.474
11AX20MIMO	26RU0	5745	18.888	18.676
11AX20MIMO	52RU37	5745	18.517	18.597
11AX20MIMO	106RU53	5745	18.479	18.442
11AX20MIMO	26RU4	5785	16.767	17.172
11AX20MIMO	52RU39	5785	17.143	16.757
11AX20MIMO	106RU54	5785	18.682	18.453
11AX20MIMO	26RU8	5825	18.901	18.740
11AX20MIMO	52RU40	5825	18.533	18.569
11AX20MIMO	106RU54	5825	18.510	18.504



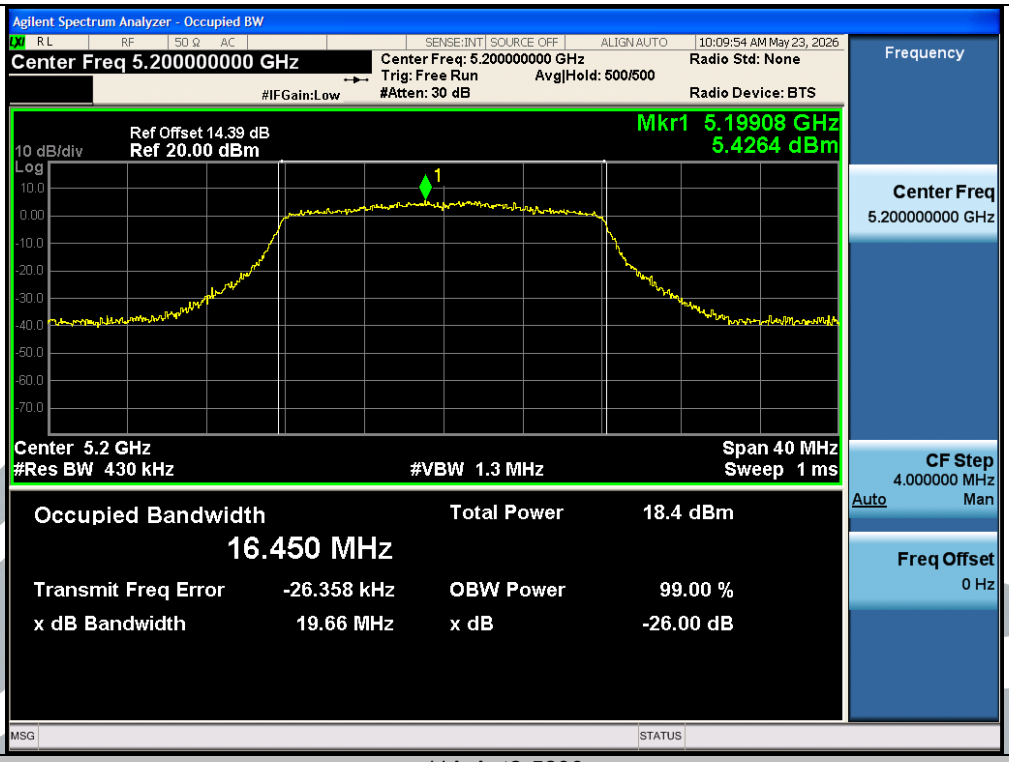
11A-Ant1-5180



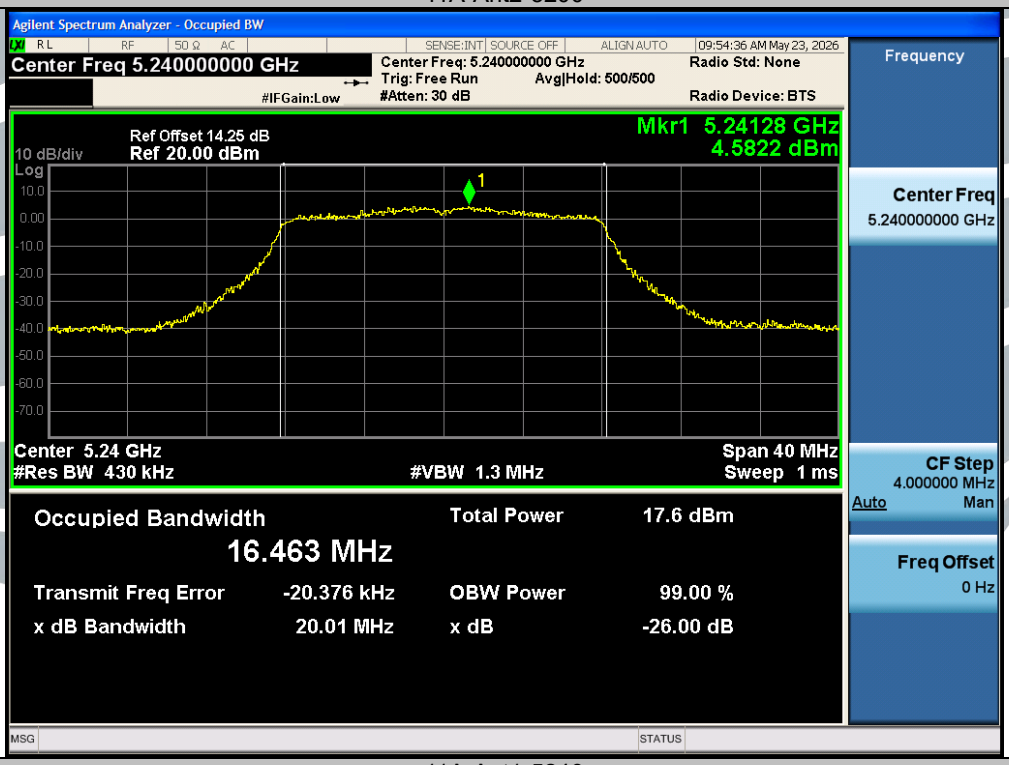
11A-Ant2-5180



11A-Ant1-5200



11A-Ant2-5200



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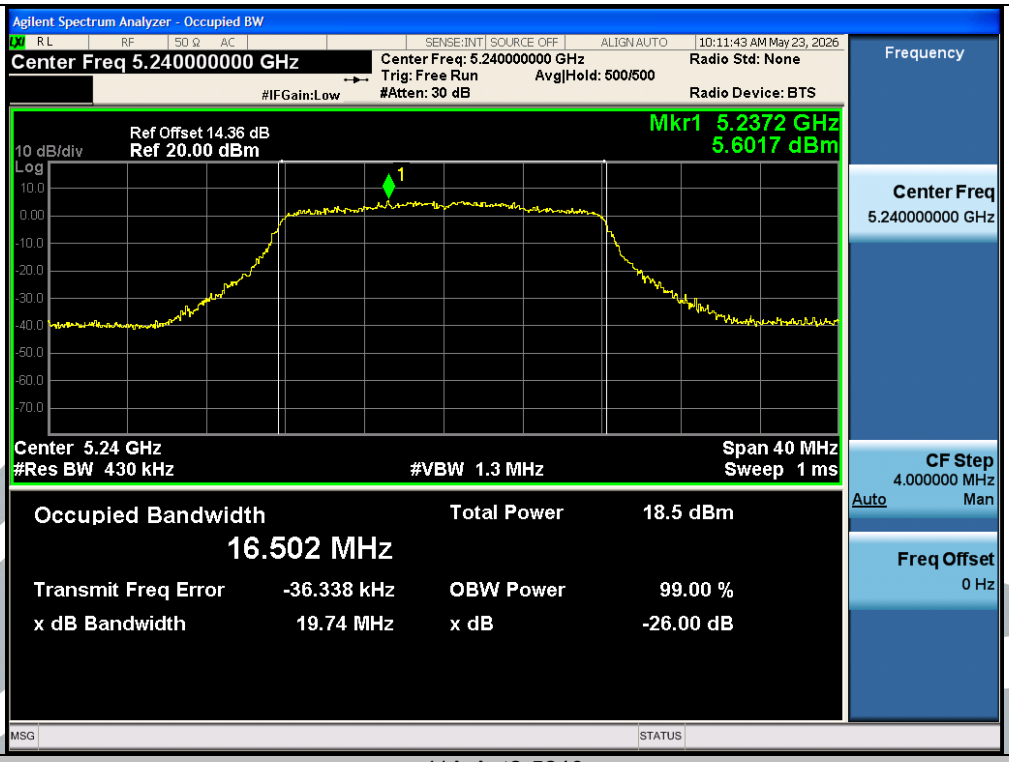

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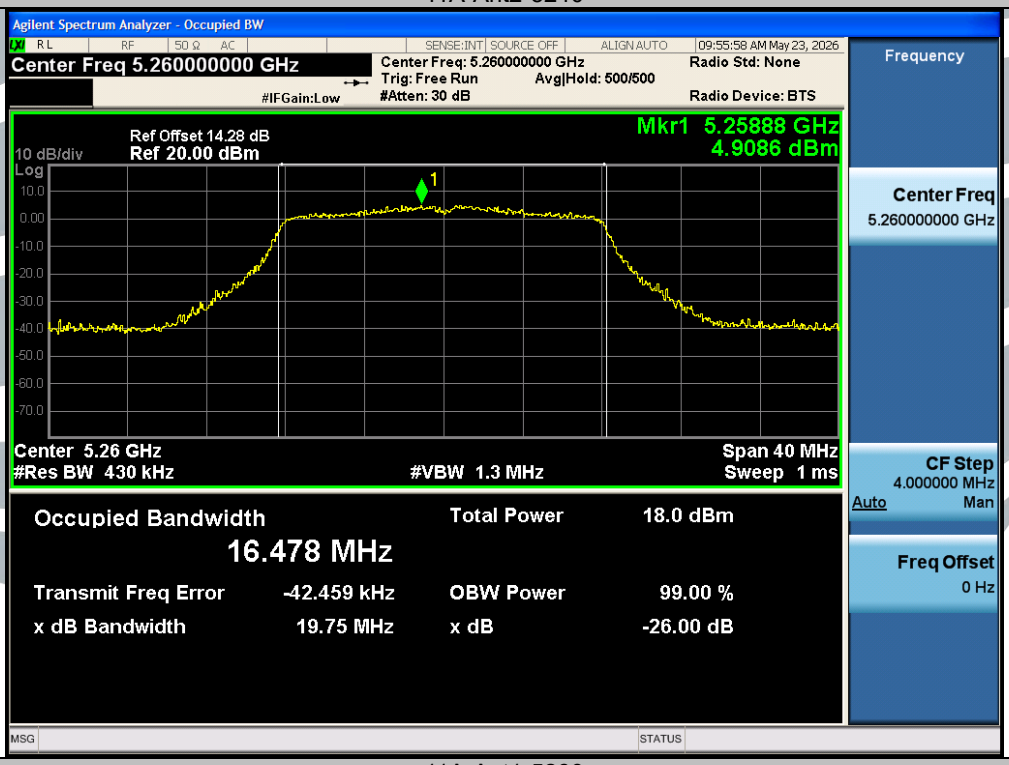

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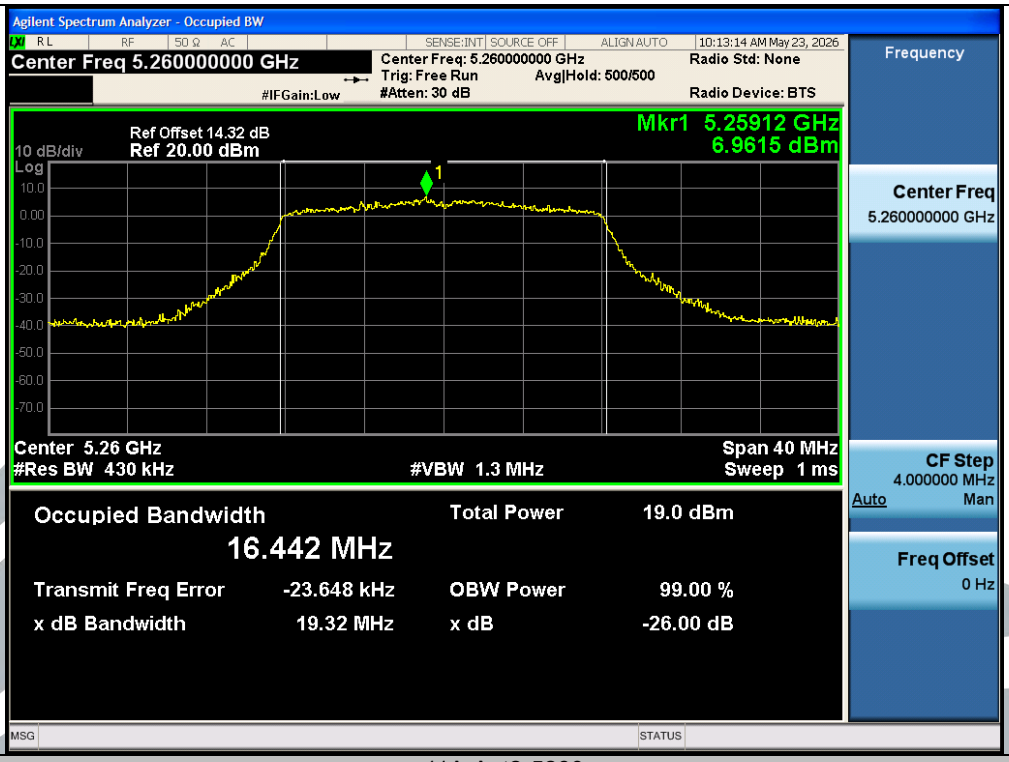
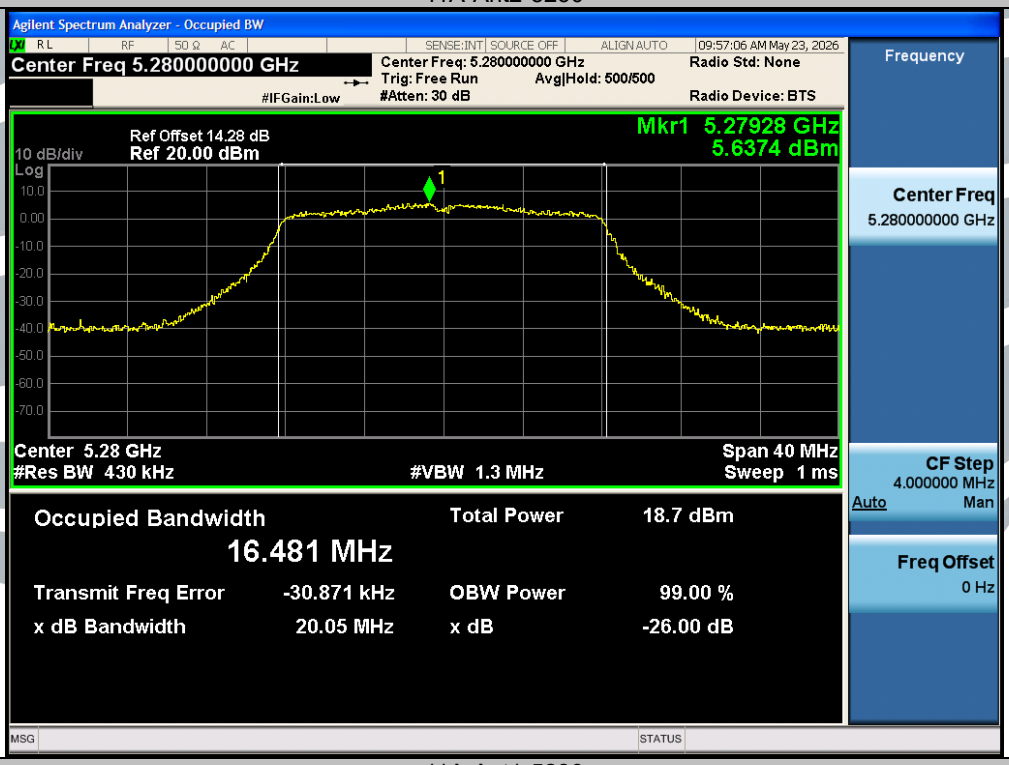
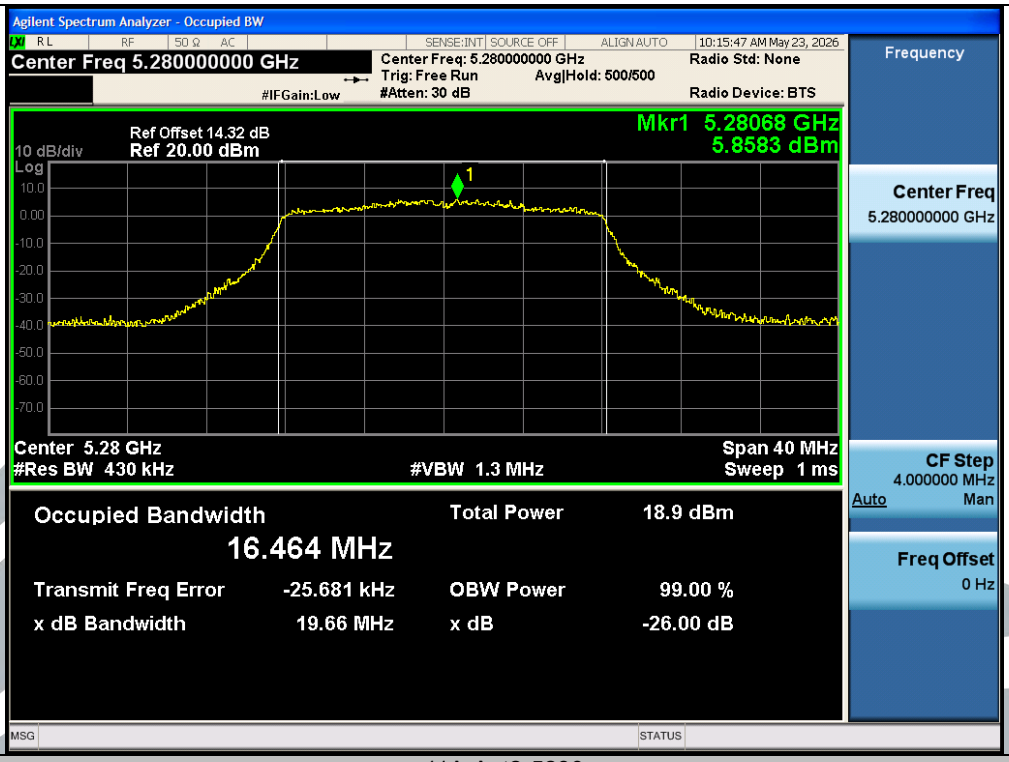


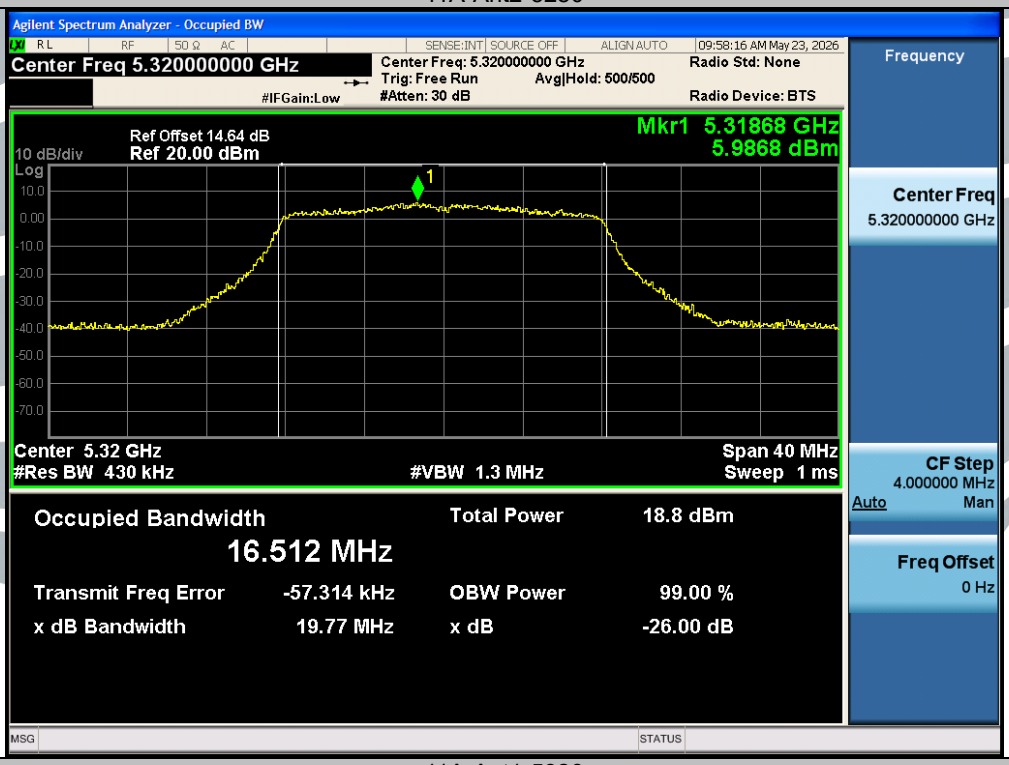
11A-Ant2-5260



11A-Ant1-5280



11A-Ant2-5280



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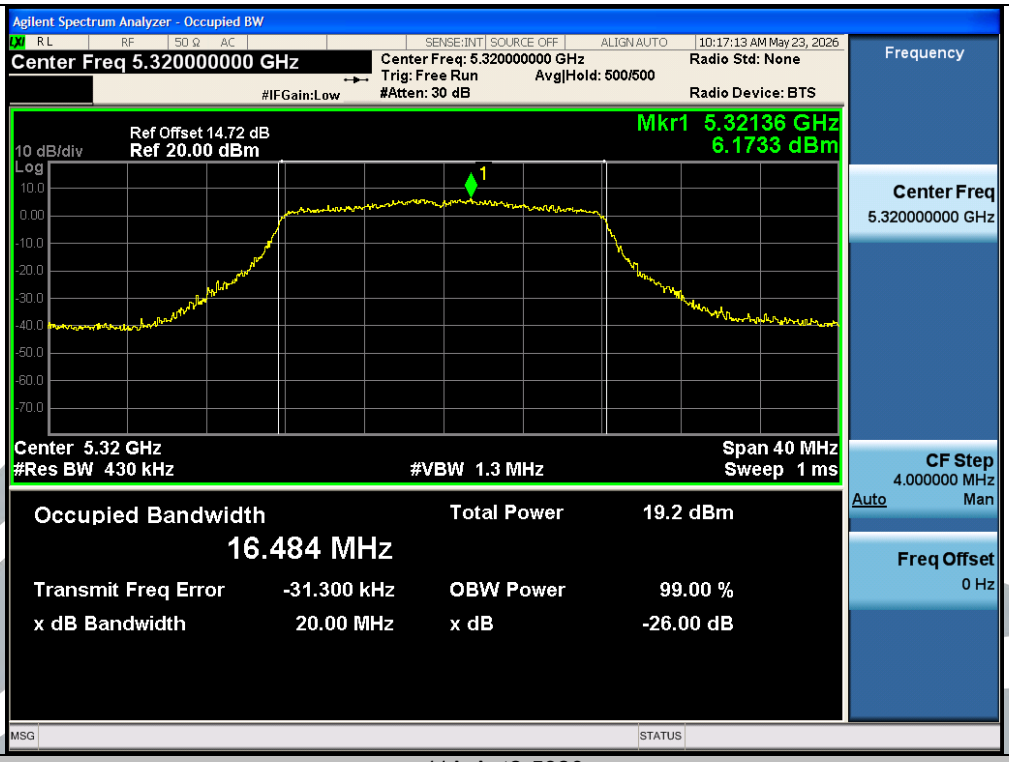

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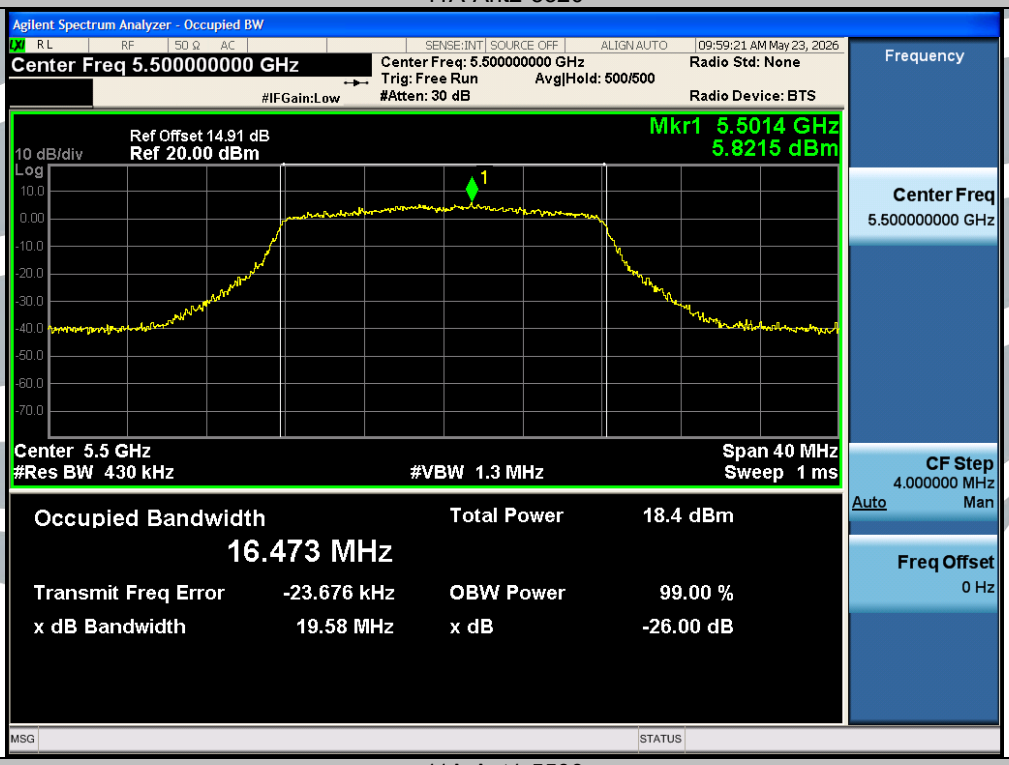
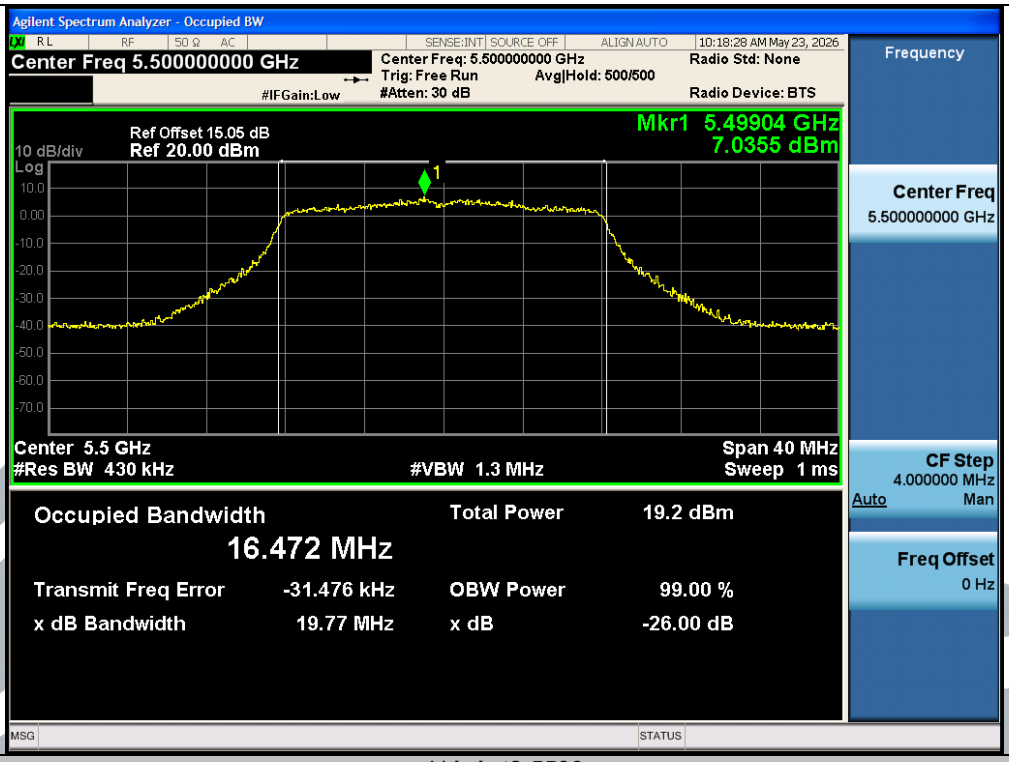


11A-Ant1-5500



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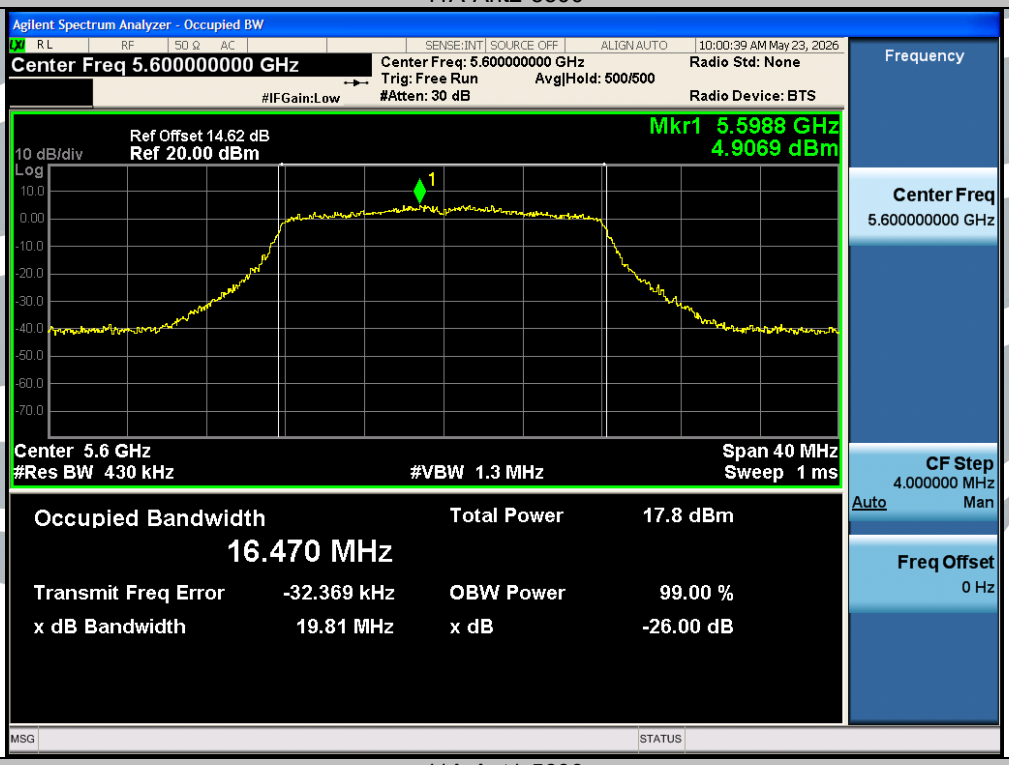

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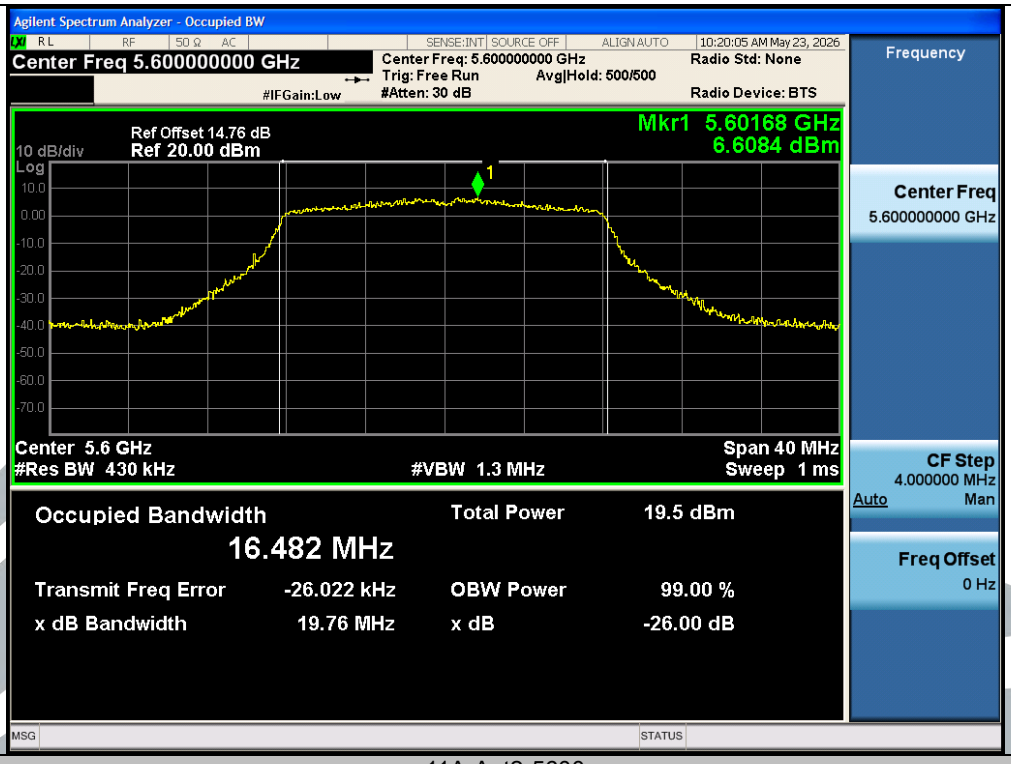
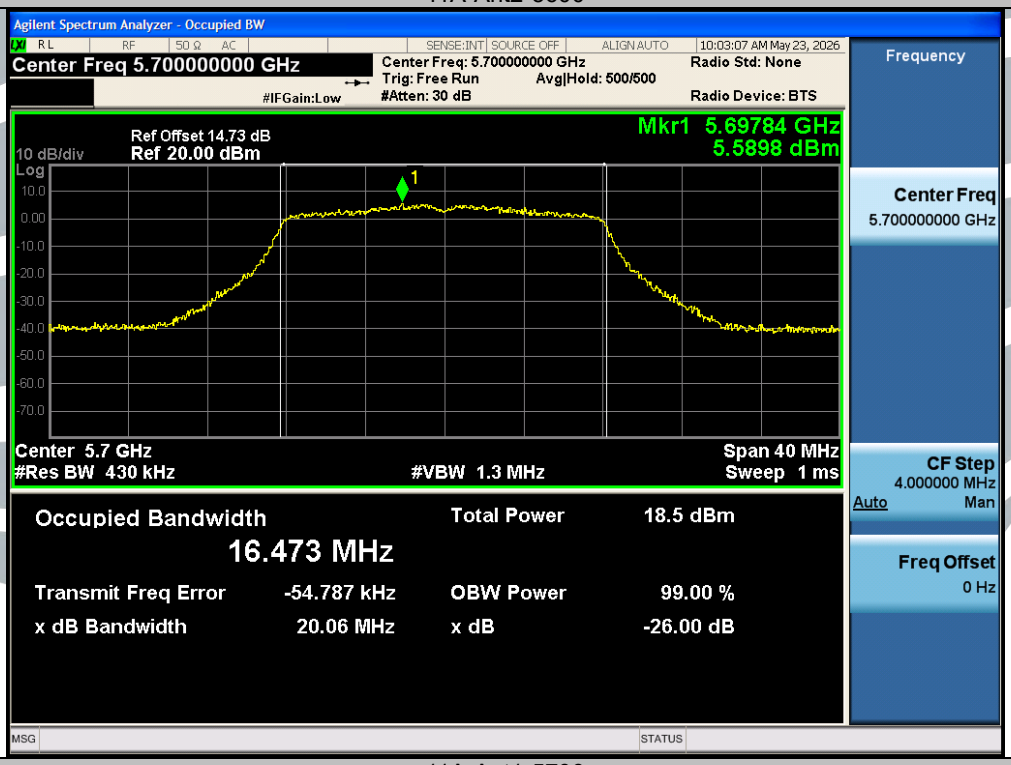


11A-Ant2-5600



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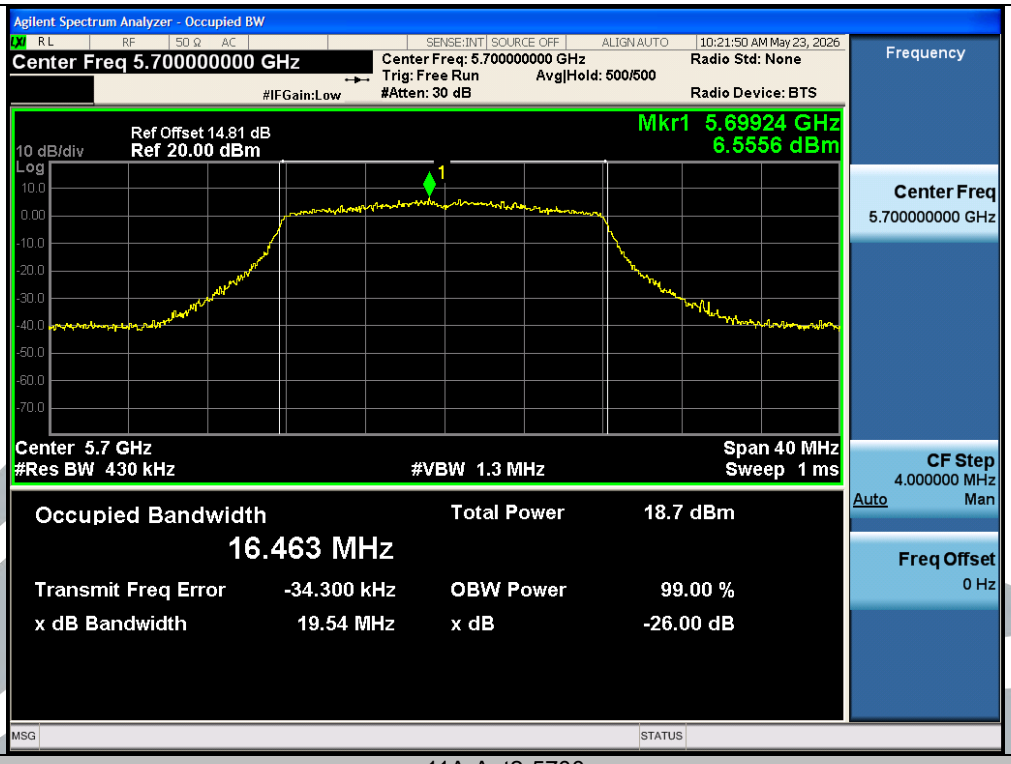

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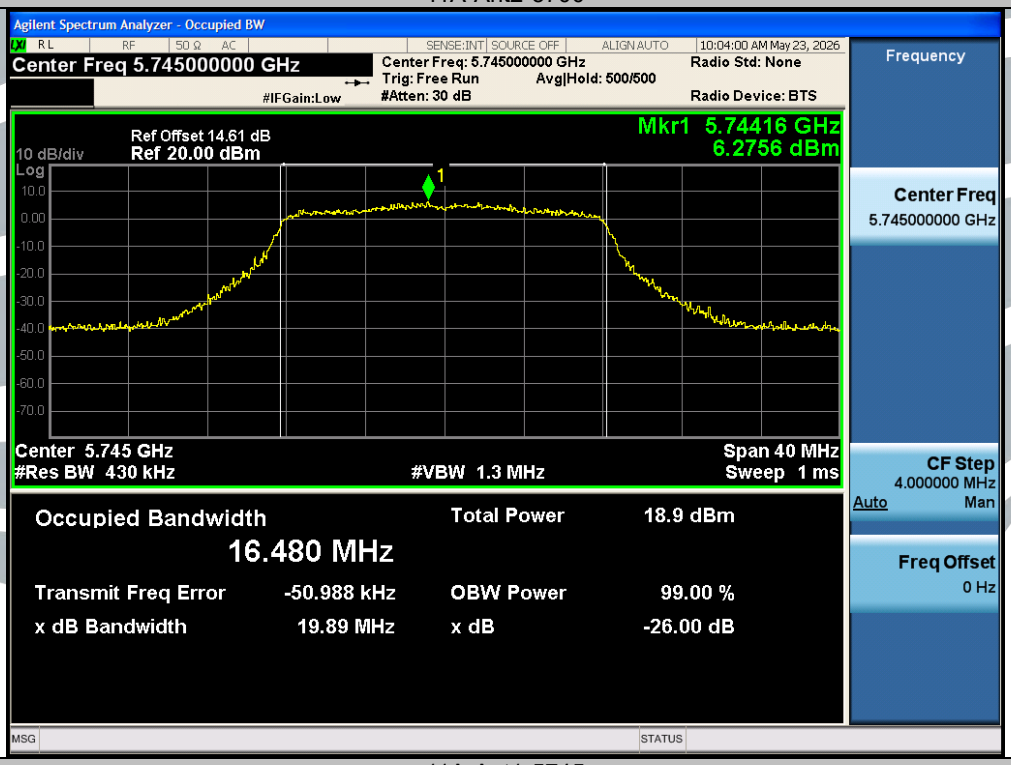
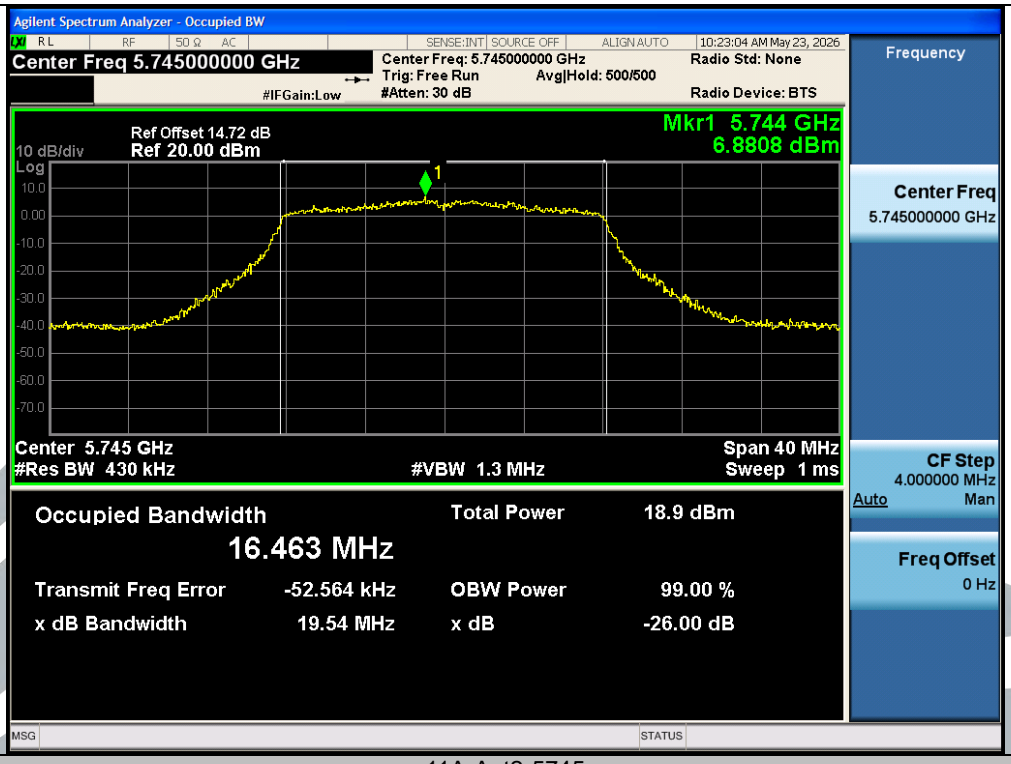


11A-Ant1-5745



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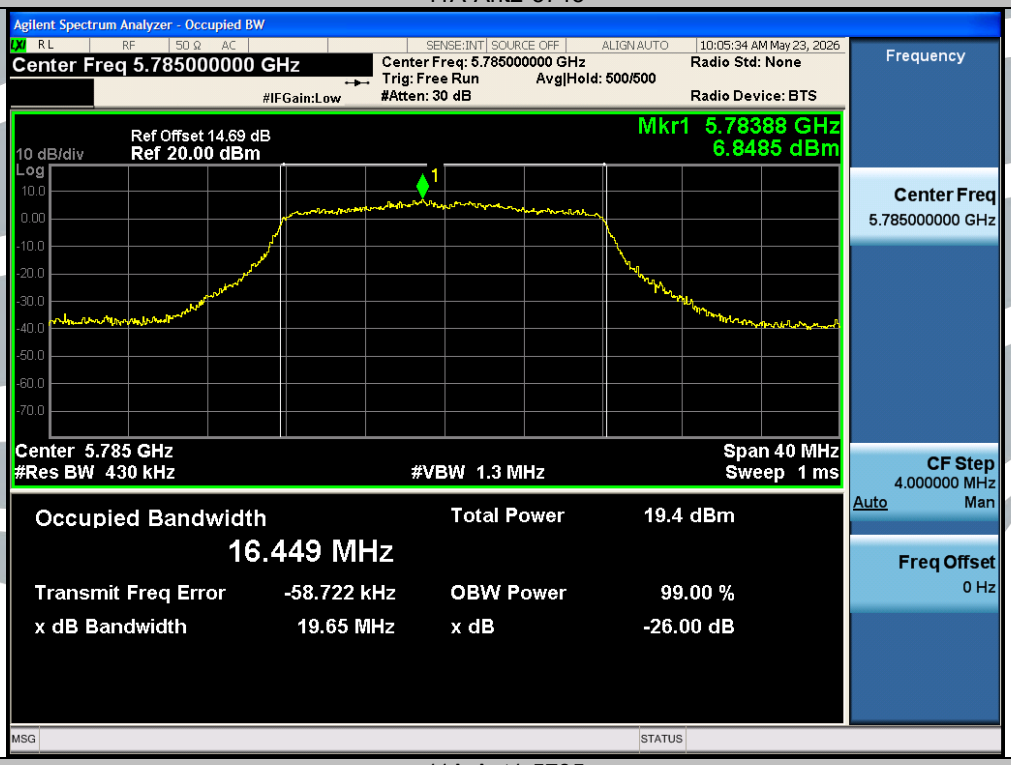

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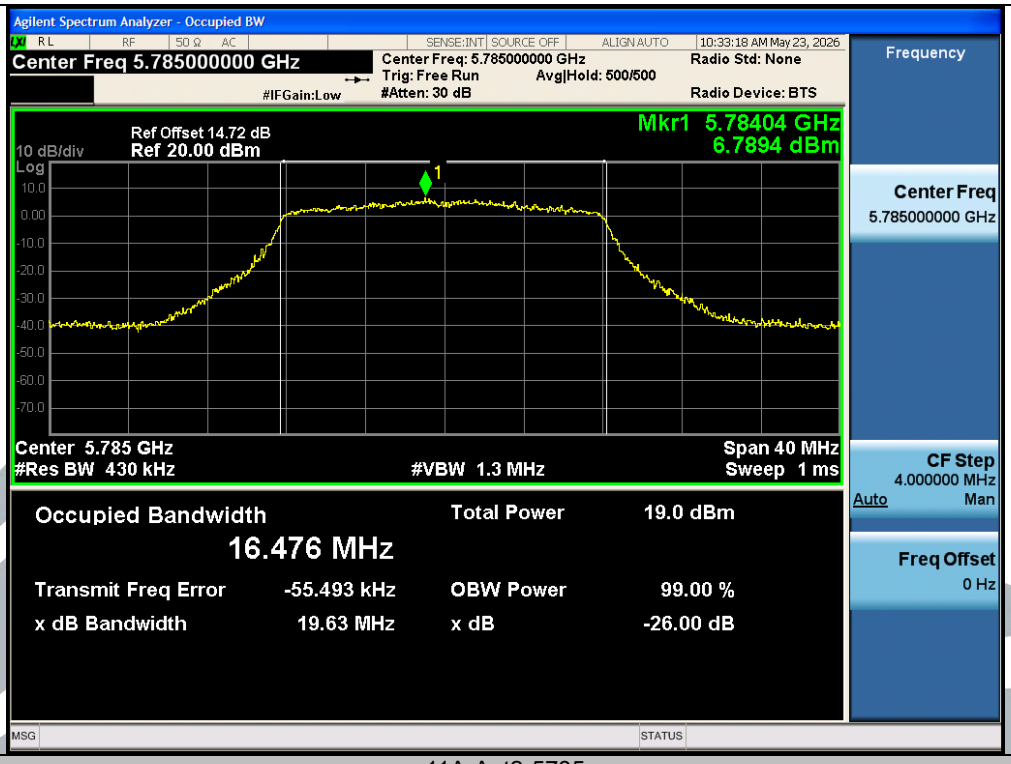

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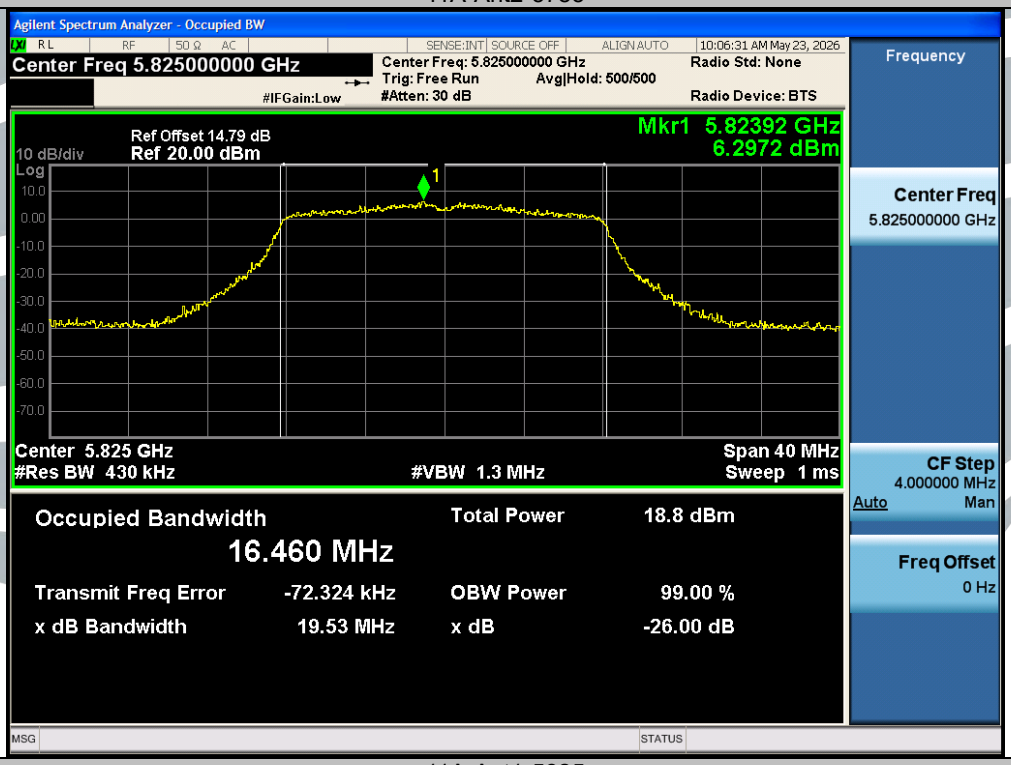
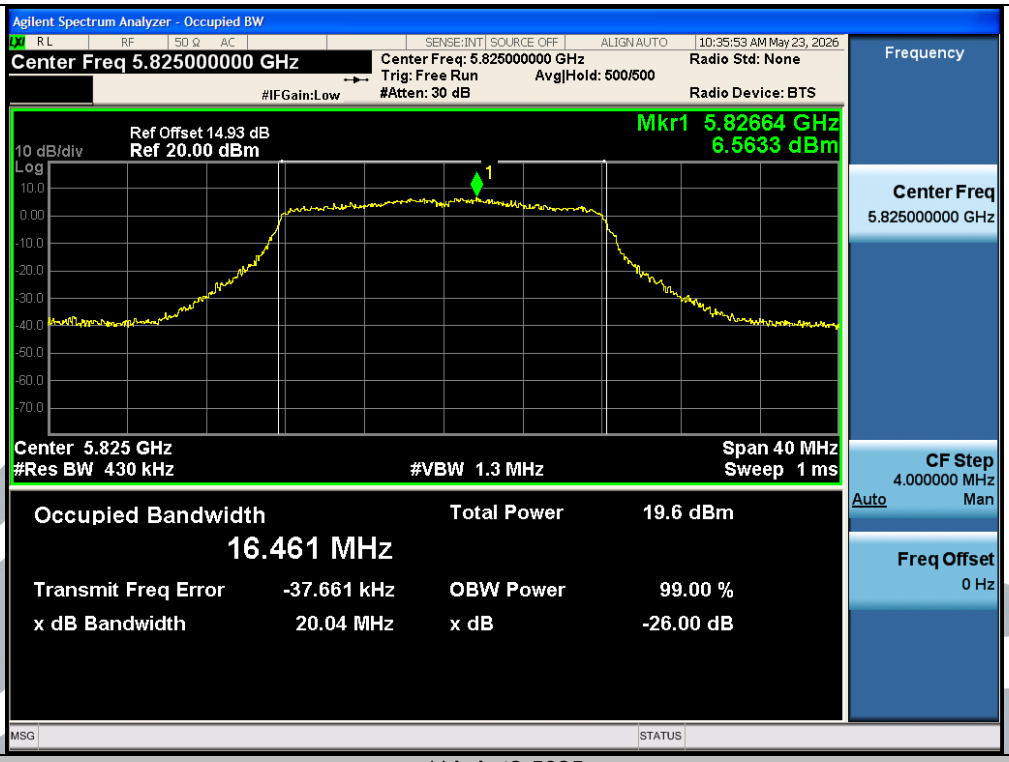


11A-Ant1-5825



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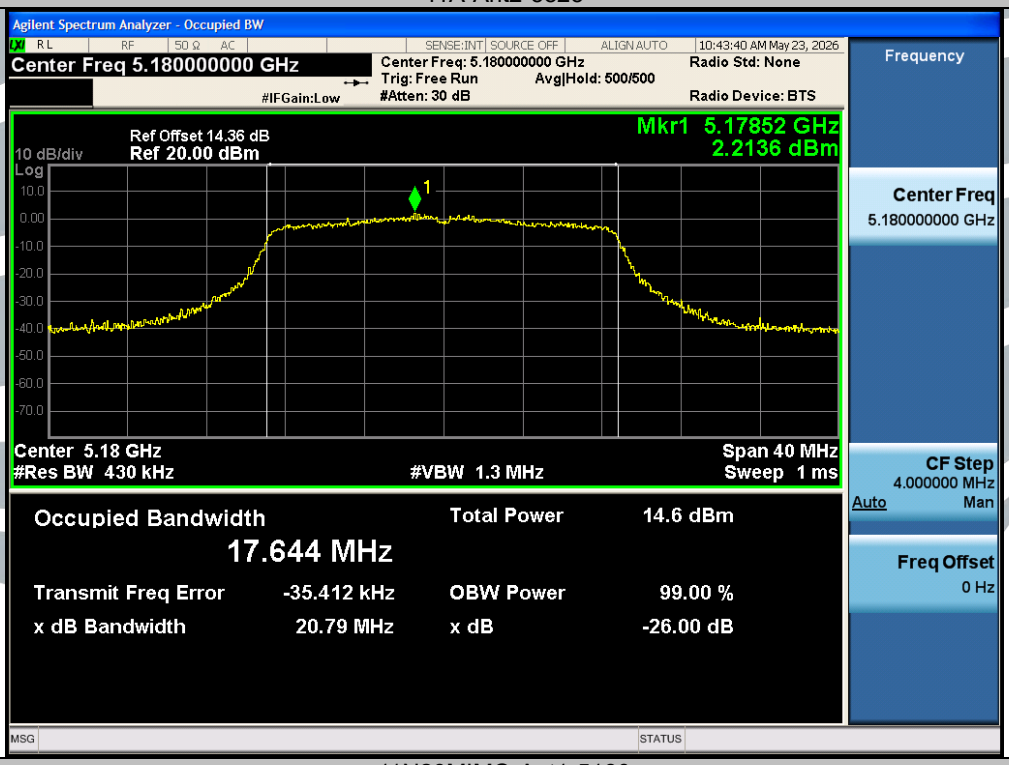
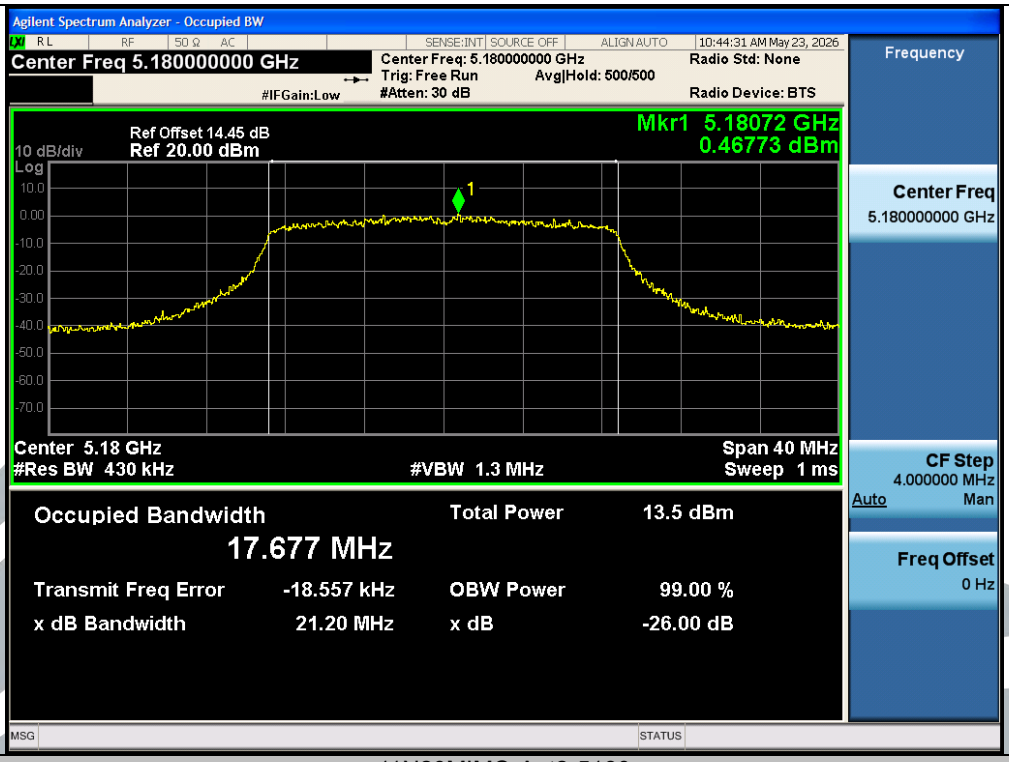


11N20MIMO-Ant1-5180



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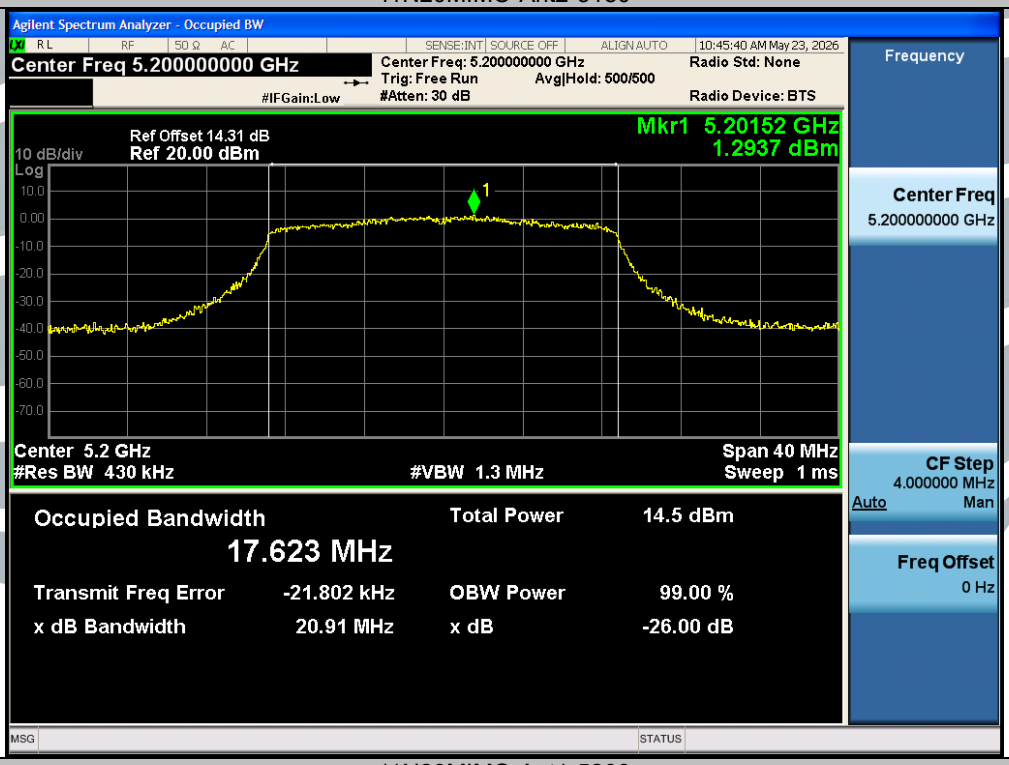

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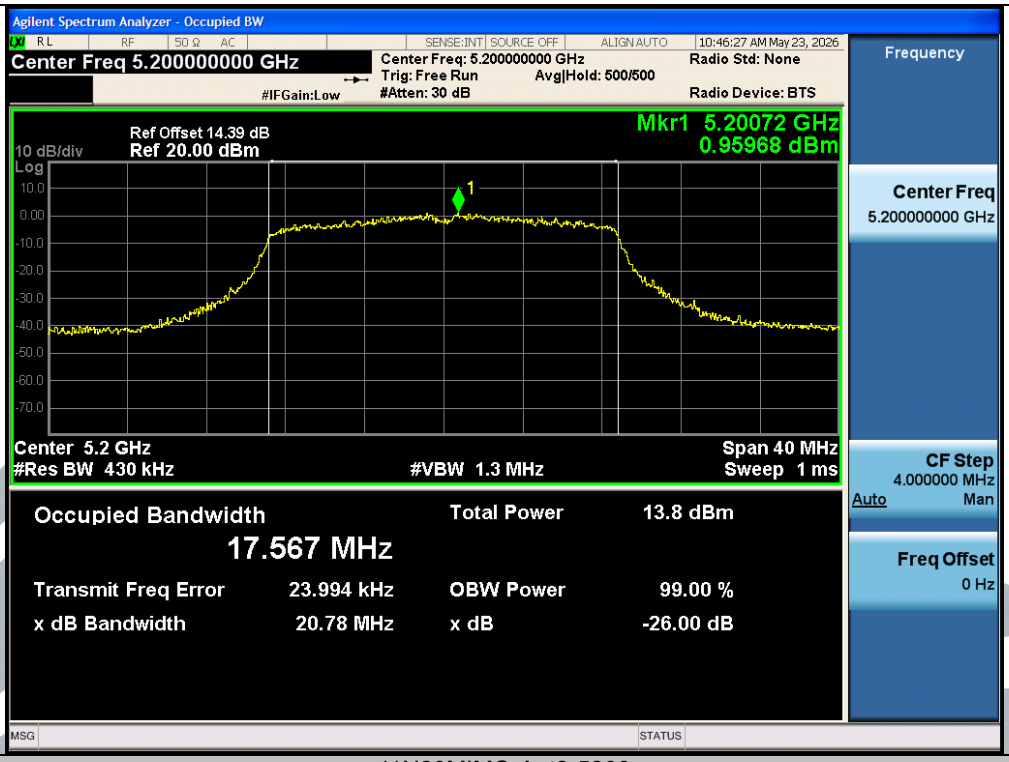

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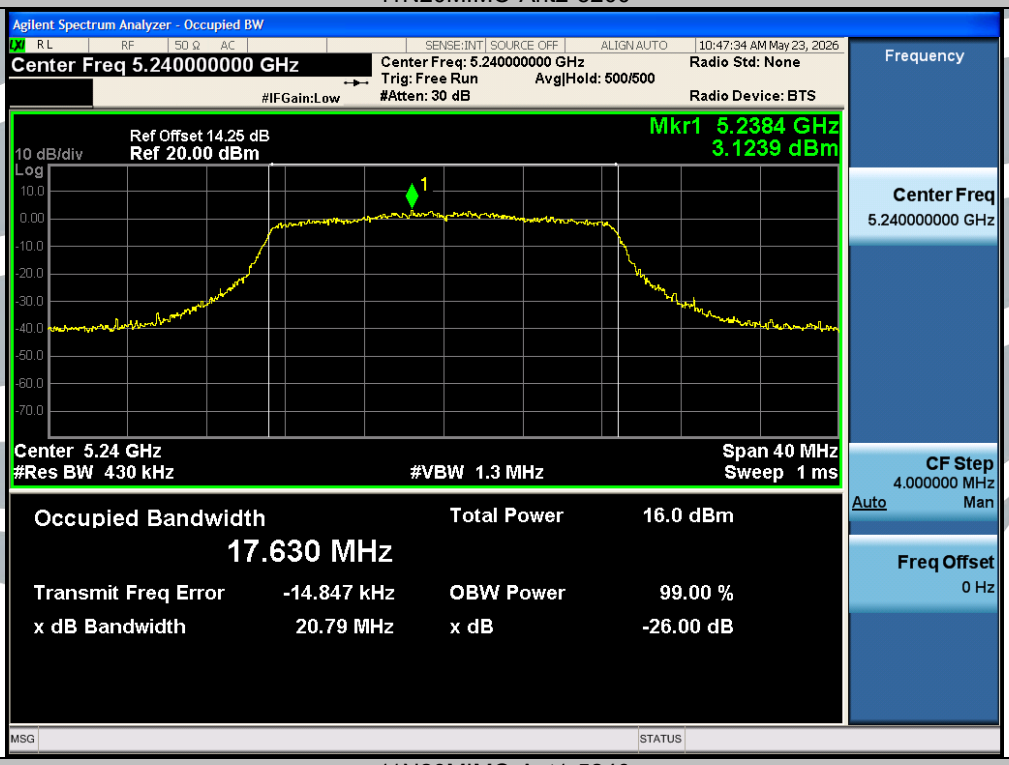

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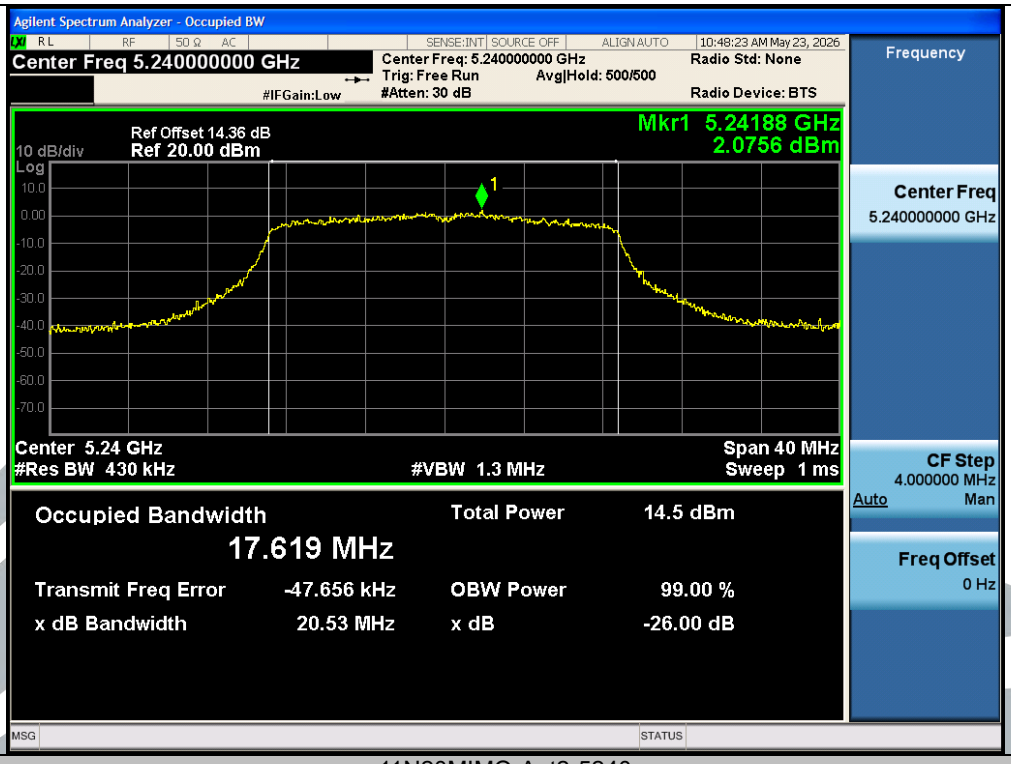

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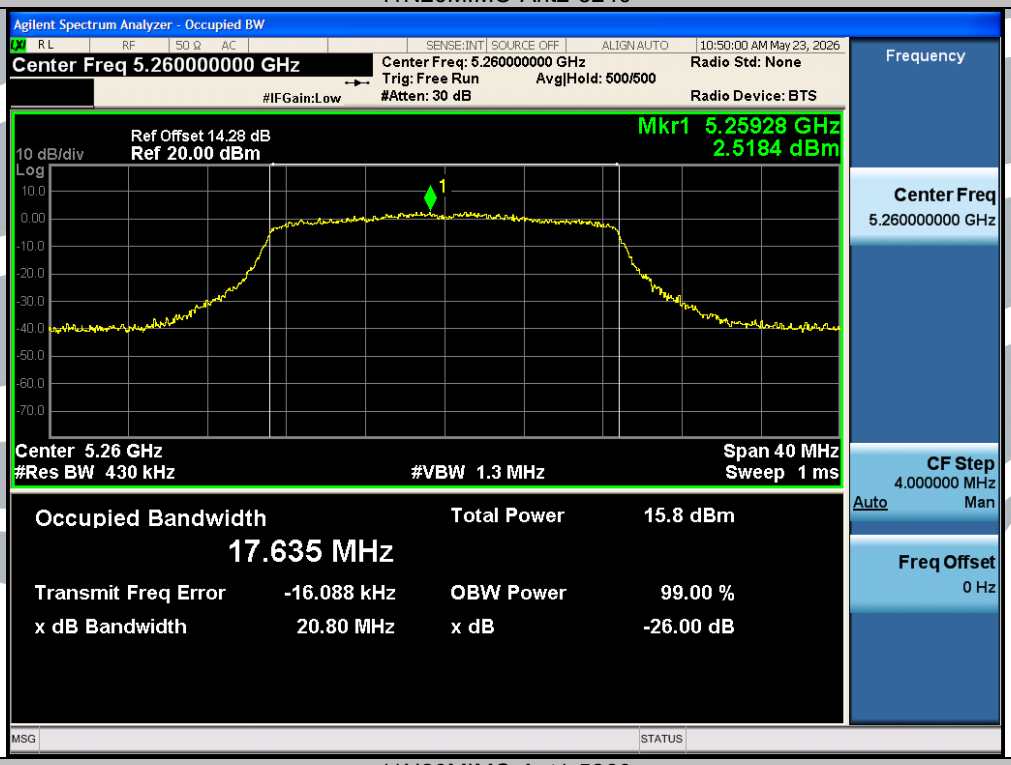
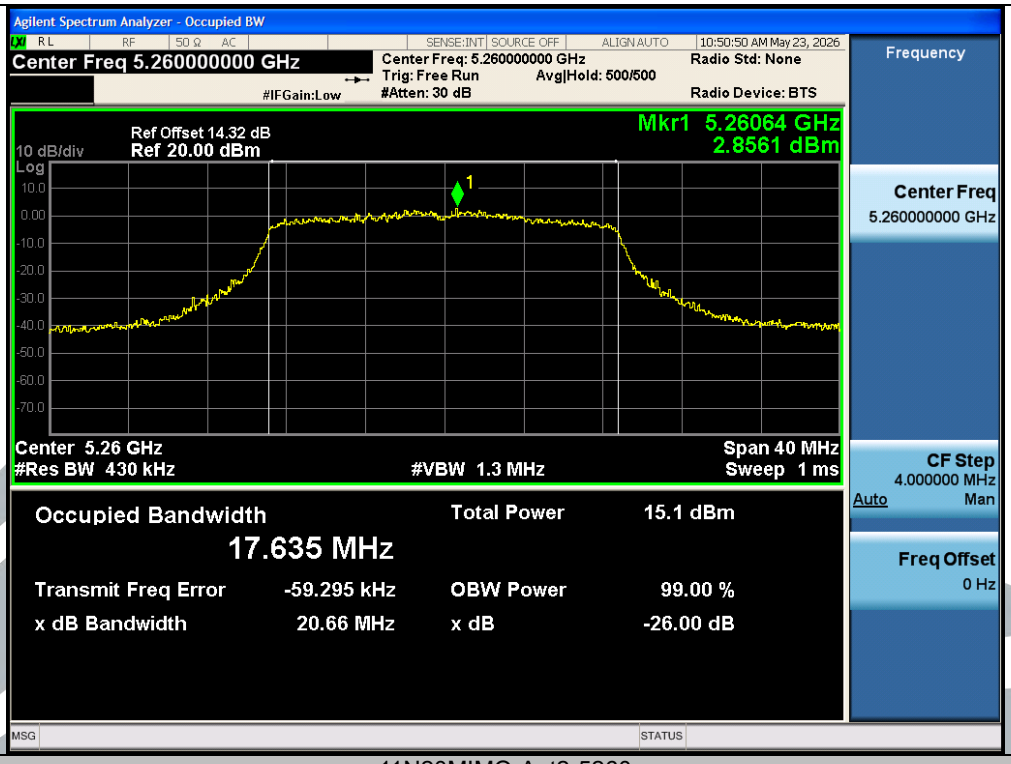


11N20MIMO-Ant1-5260



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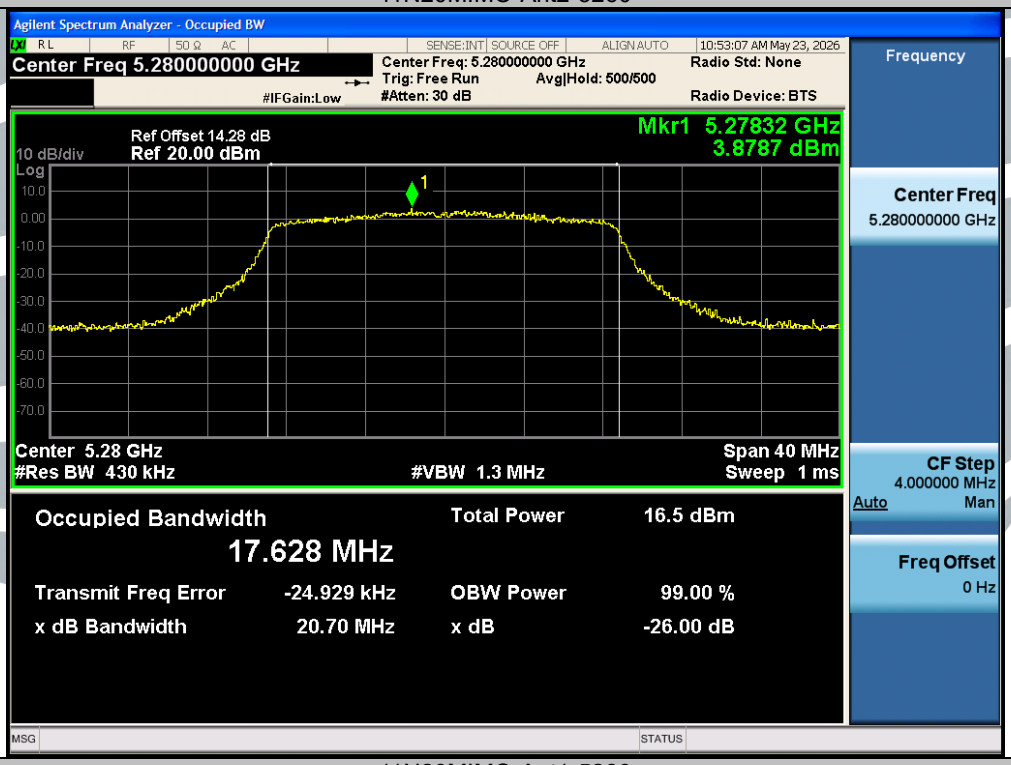

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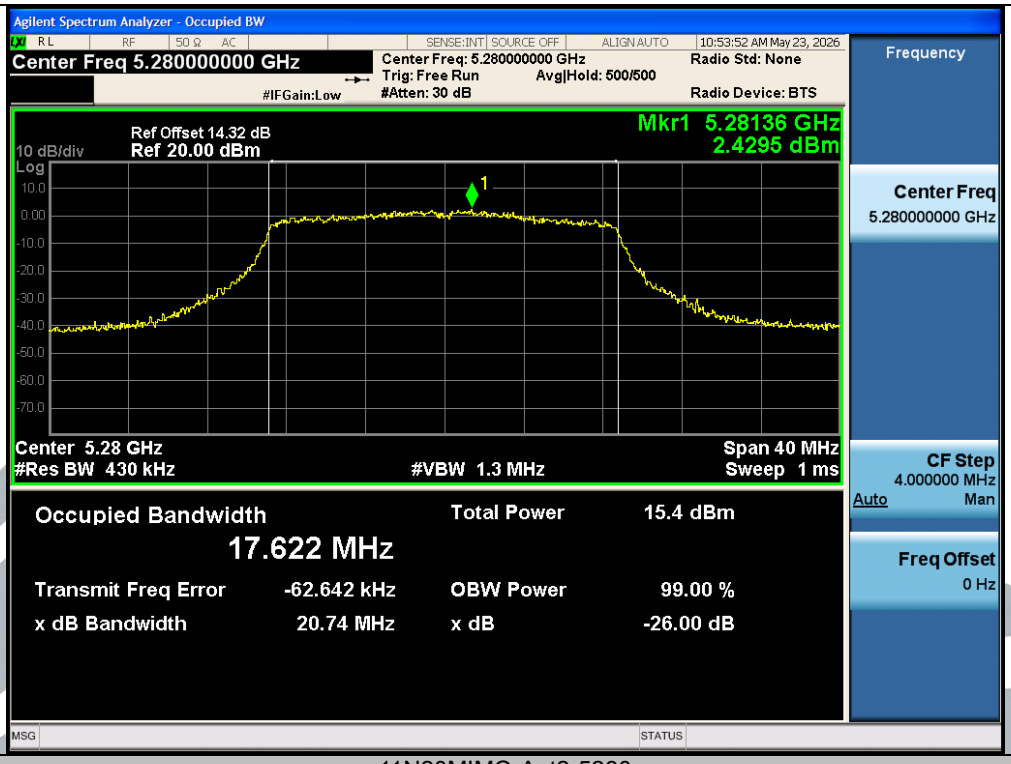

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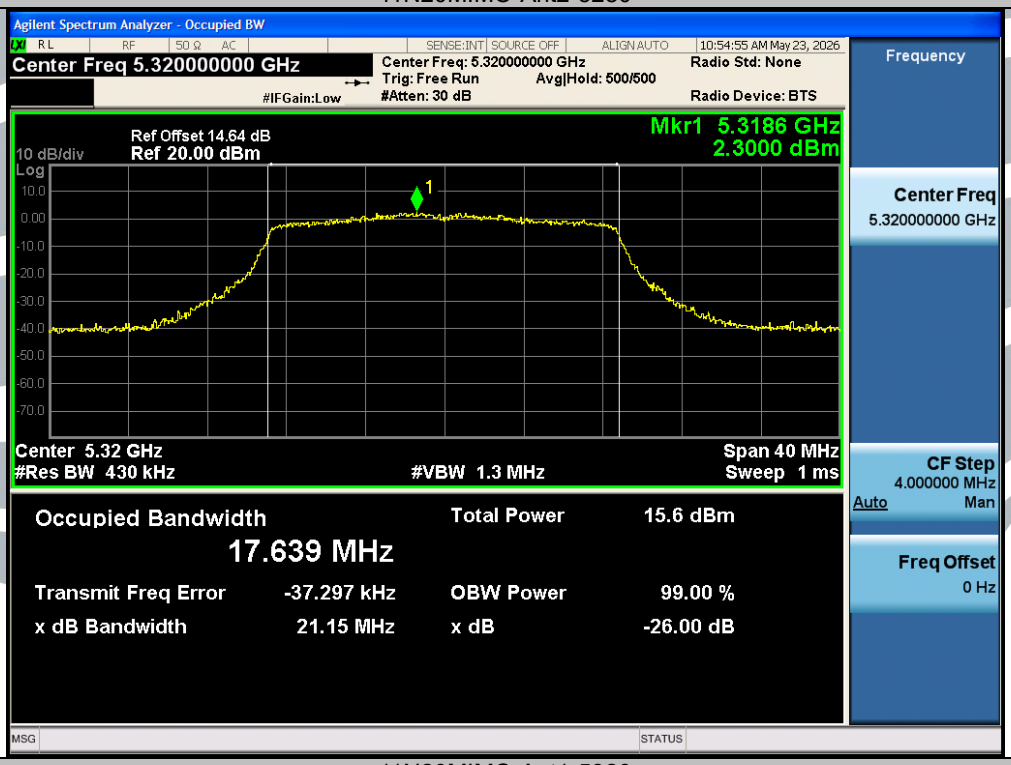

11N20MIMO-Ant1-5320