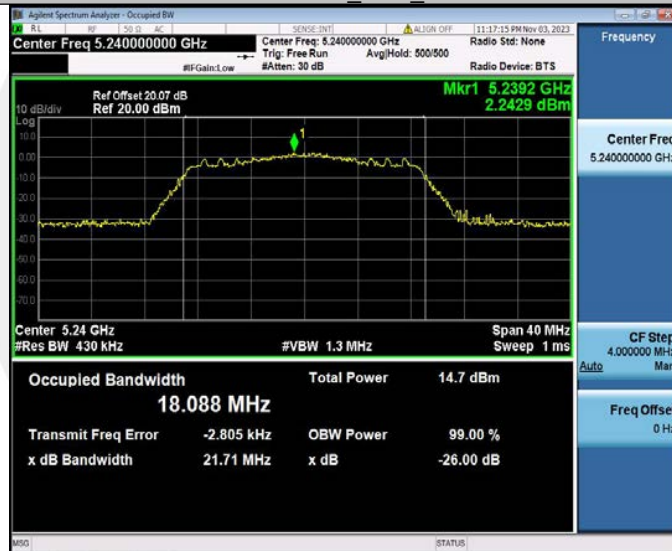


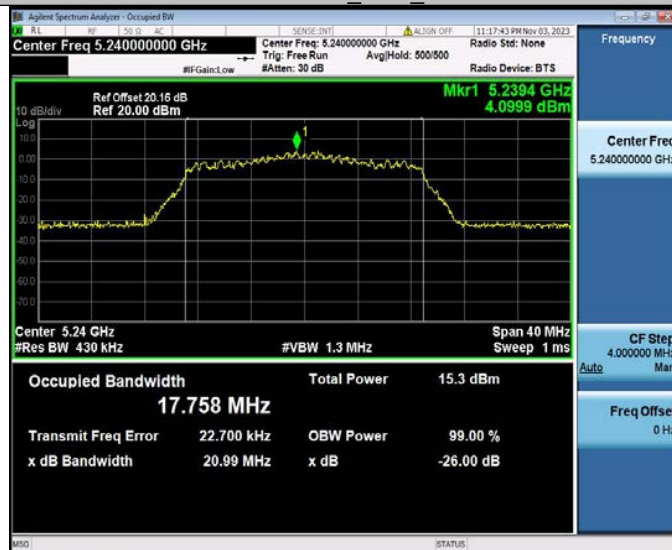
11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



11N20MIMO_Ant2_5785



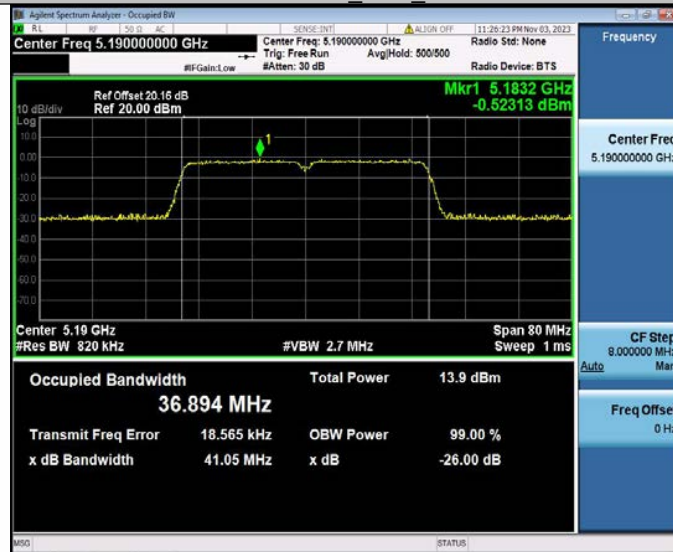
11N20MIMO_Ant1_5825



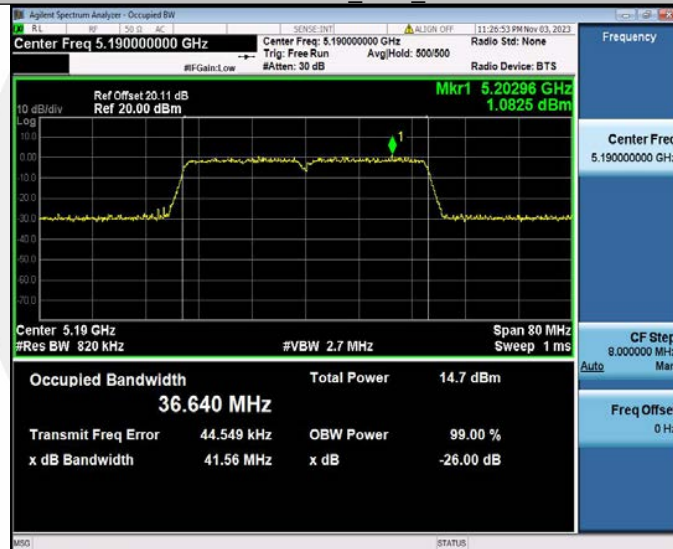
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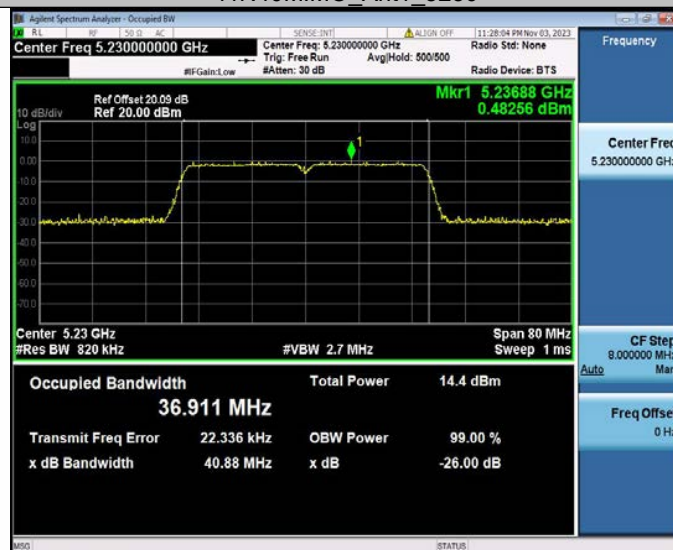
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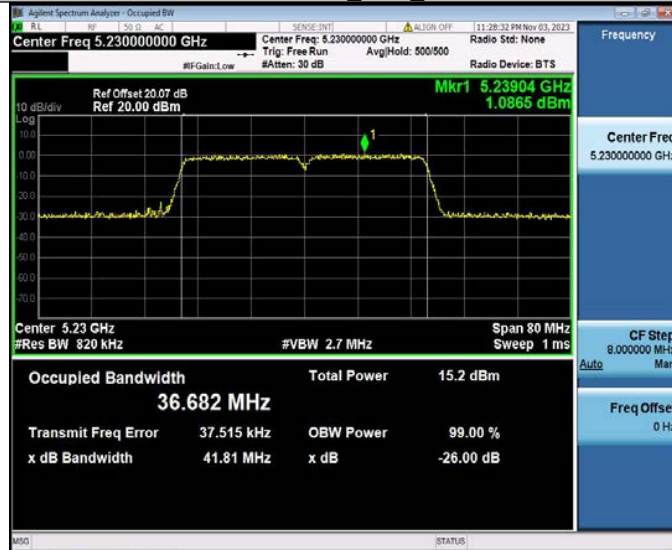
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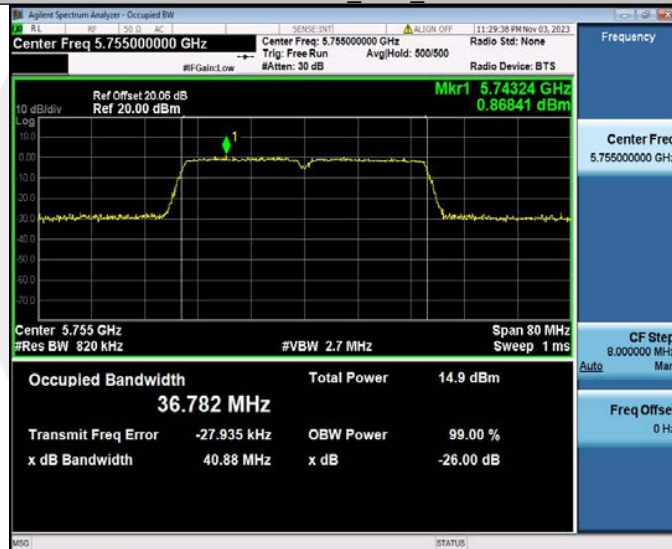
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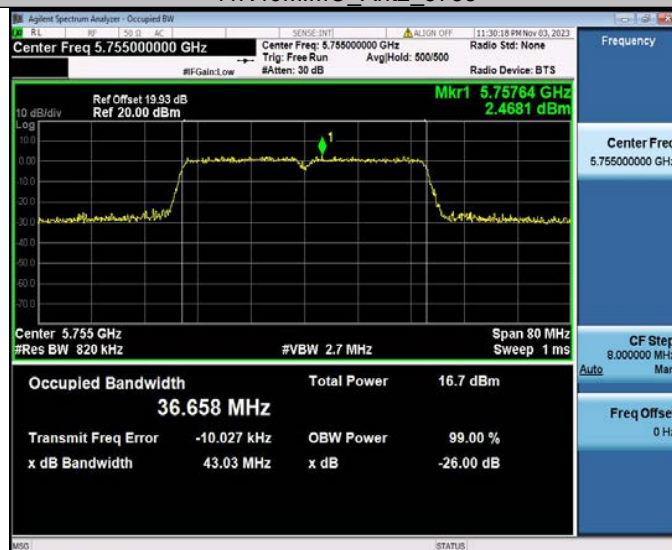
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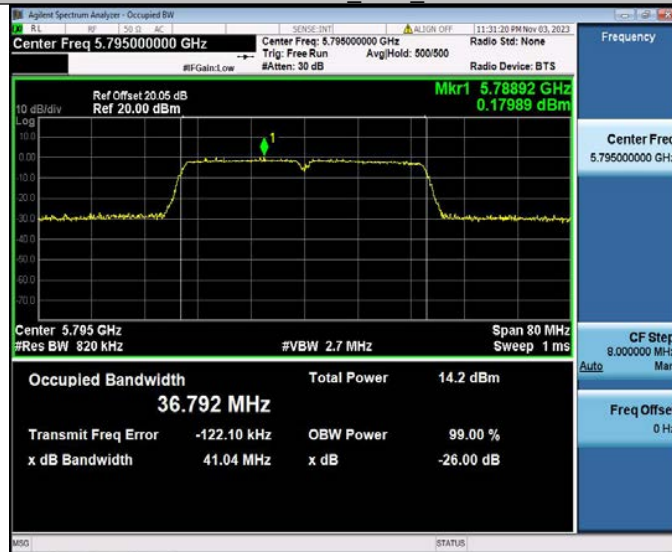
11N40MIMO_Ant1_5755



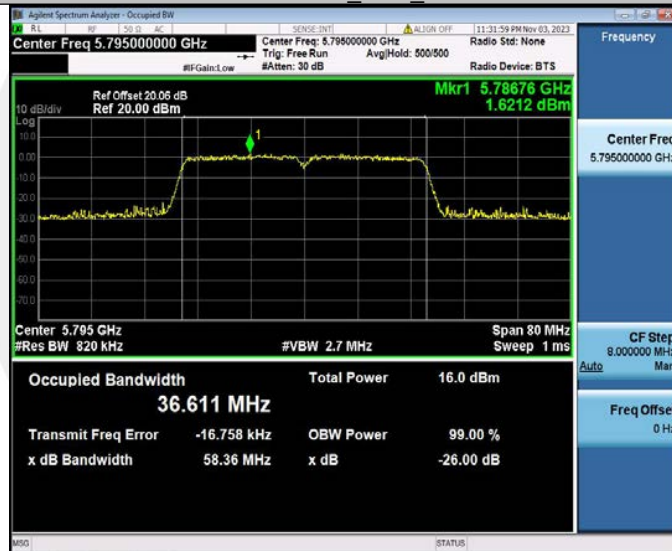
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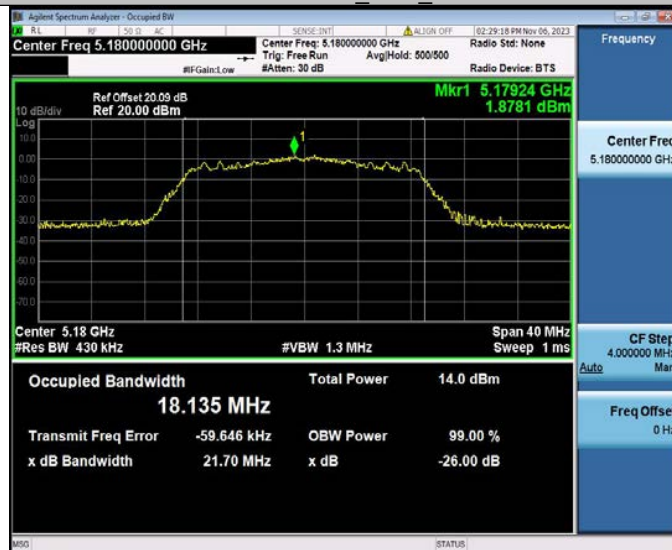
11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



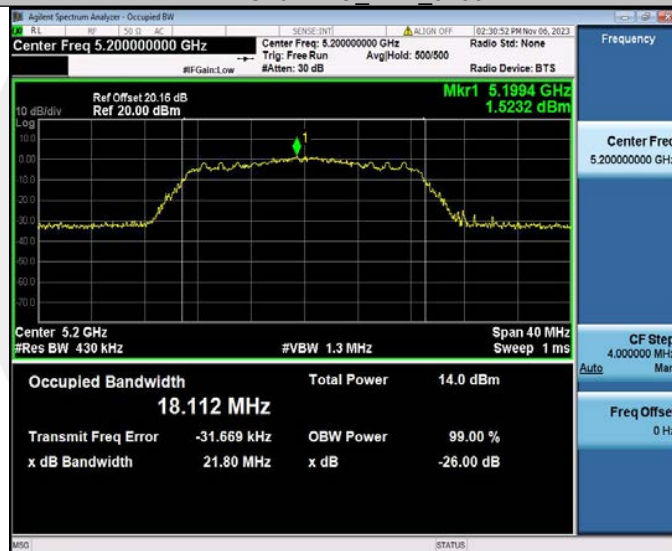
11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200



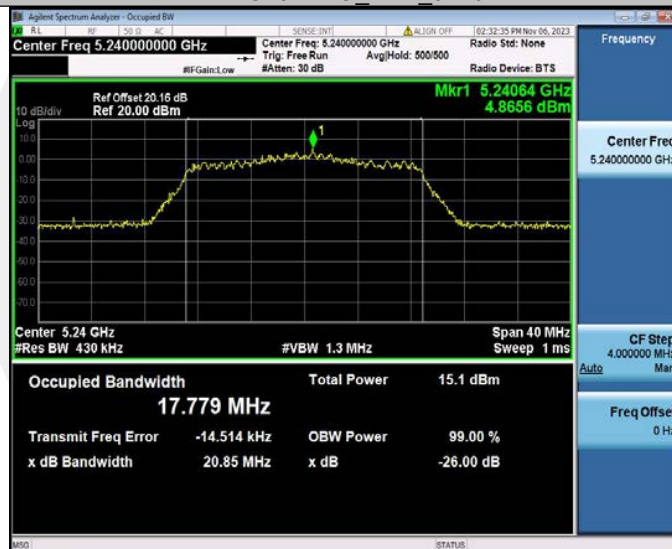
11AC20MIMO_Ant2_5200



11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240



11AC20MIMO_Ant1_5745



11AC20MIMO_Ant2_5745



11AC20MIMO_Ant1_5785



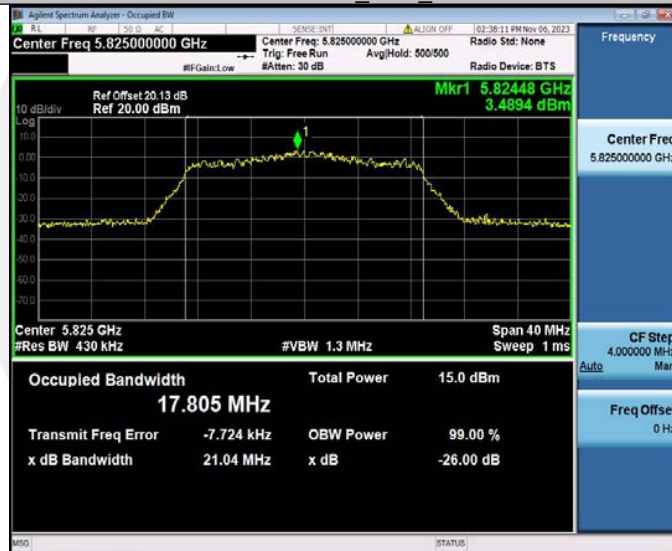
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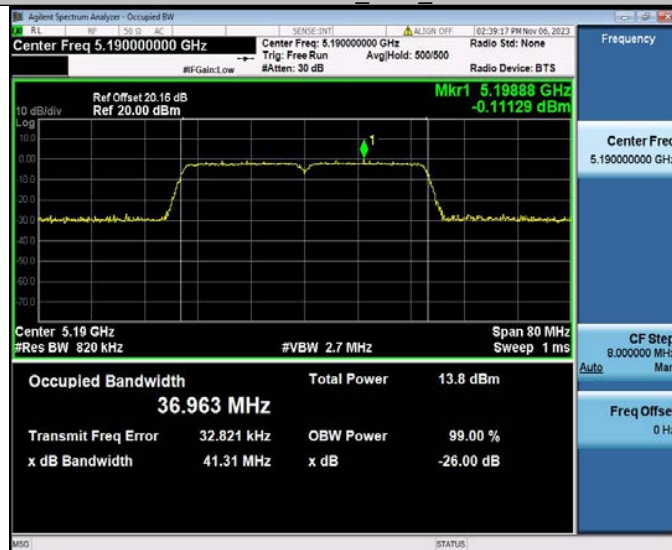
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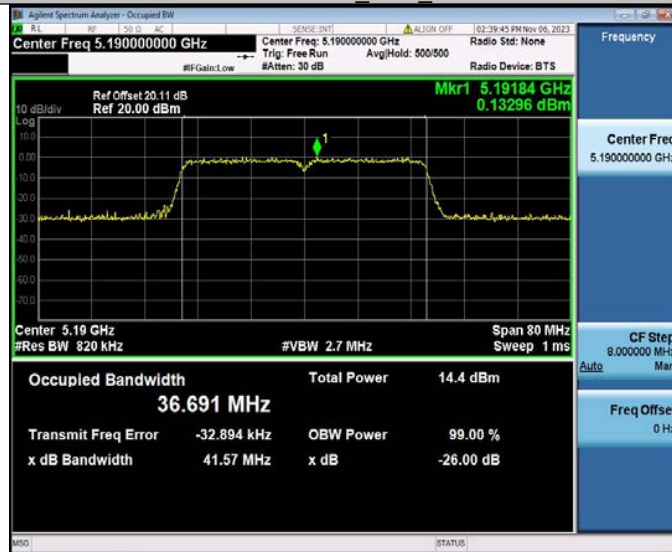
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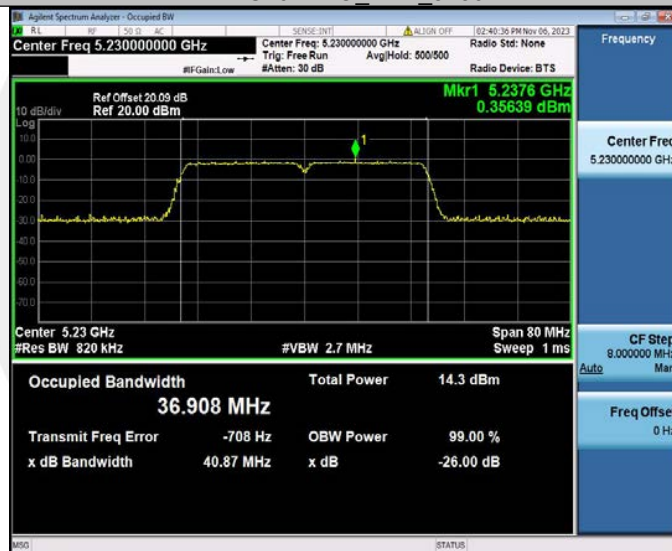
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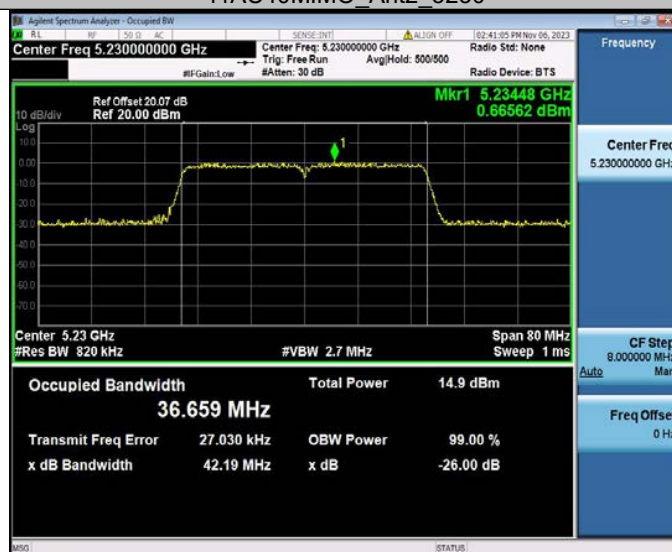
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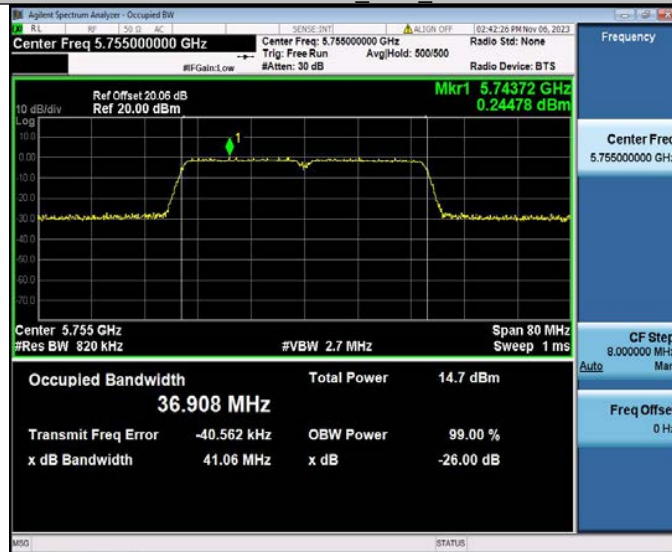
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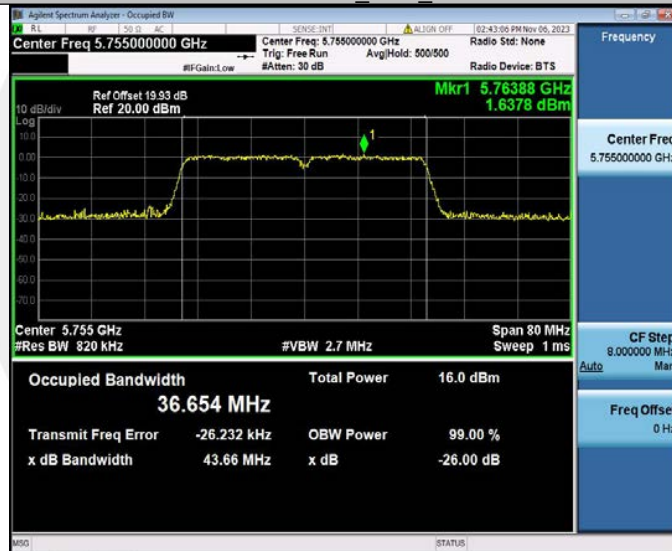
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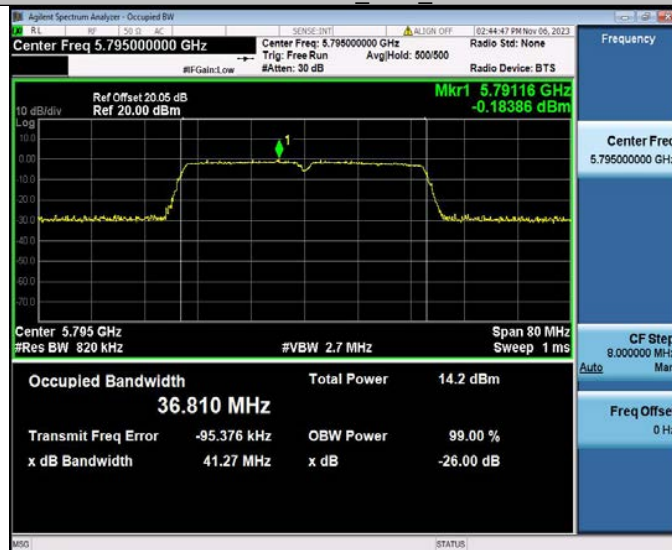
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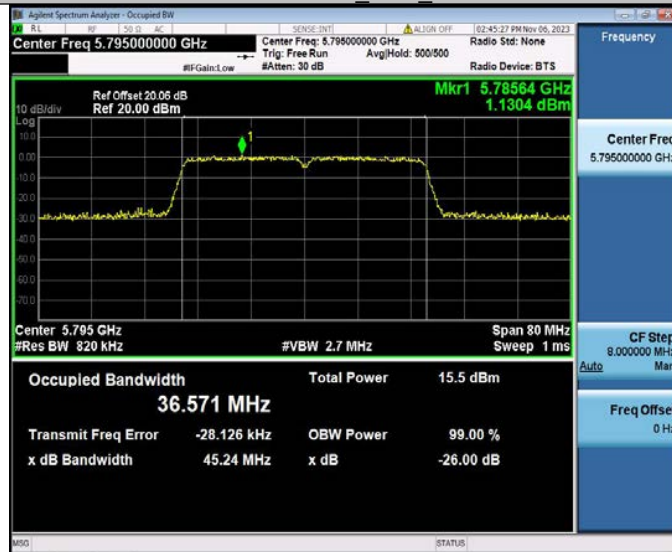
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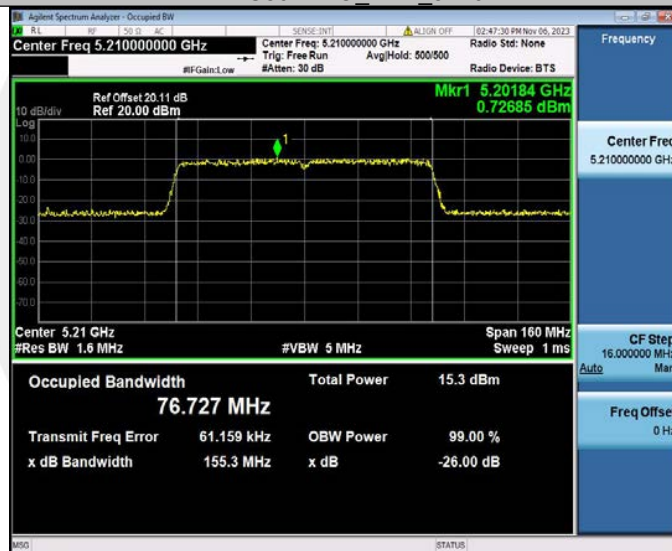
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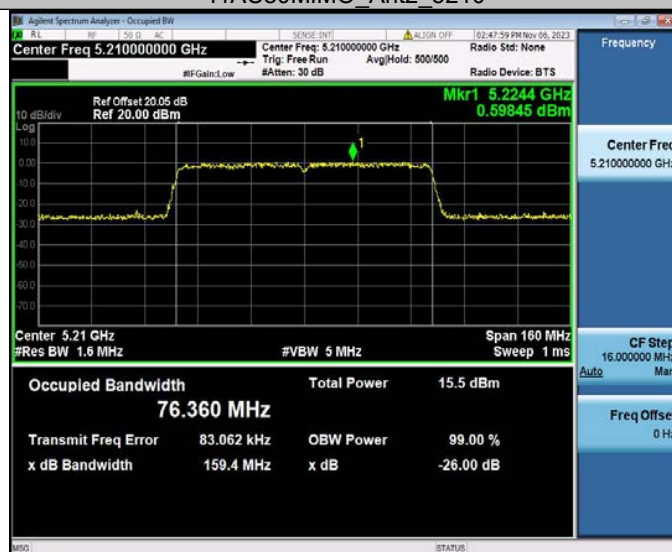
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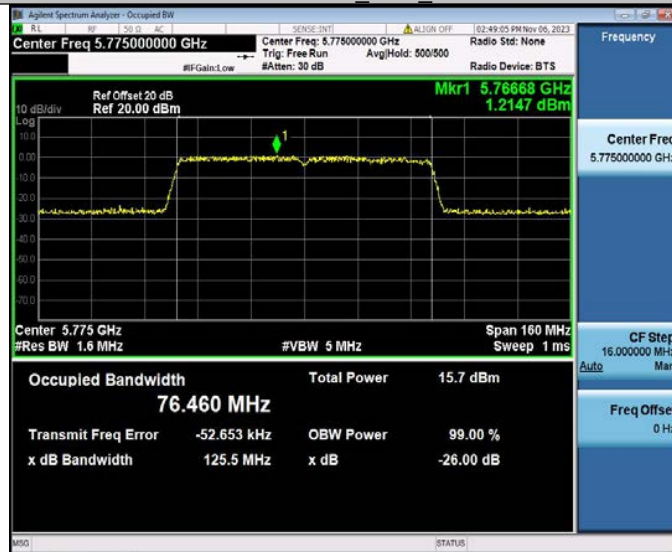
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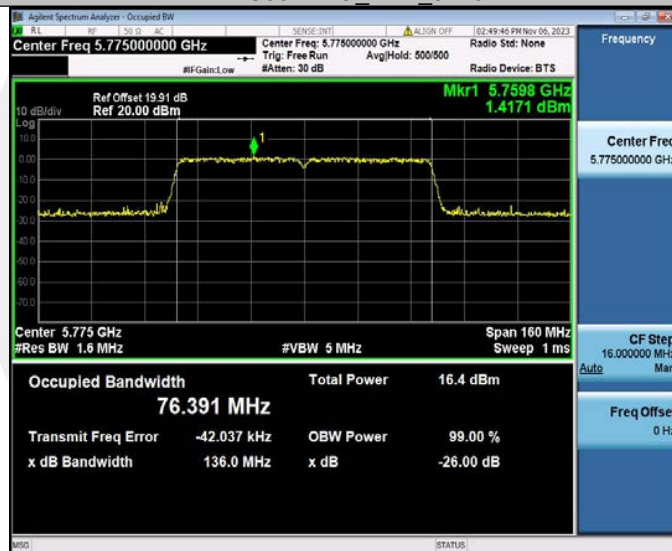
11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5775



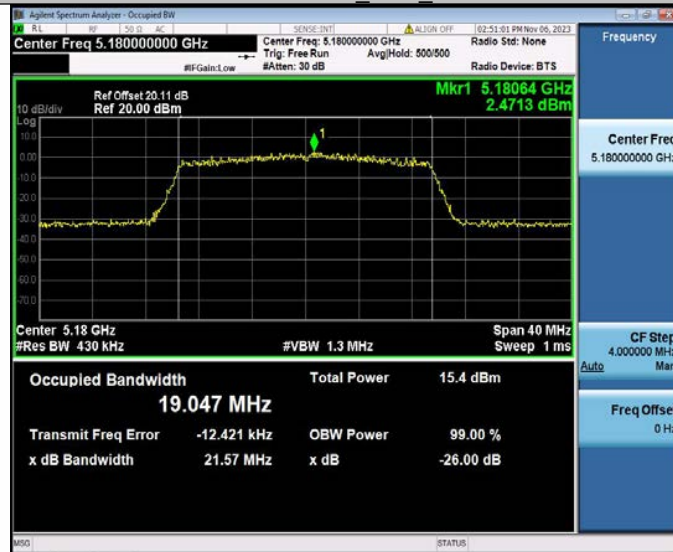
11AC80MIMO_Ant2_5775



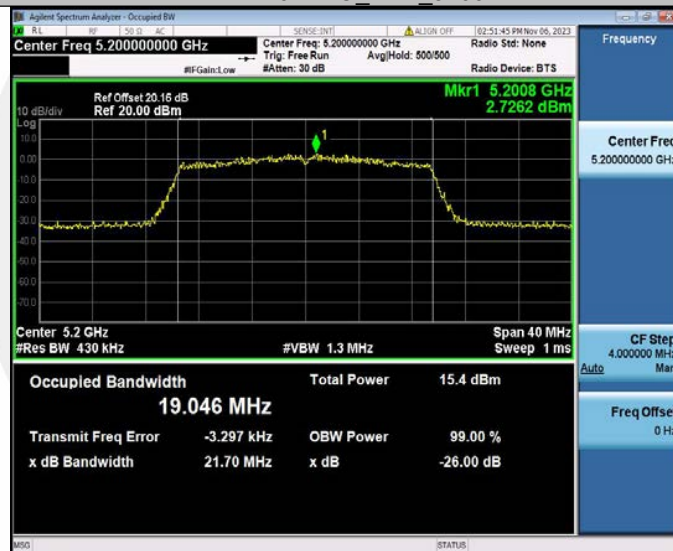
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11AX20MIMO_Ant2_5180



11AX20MIMO_Ant1_5200



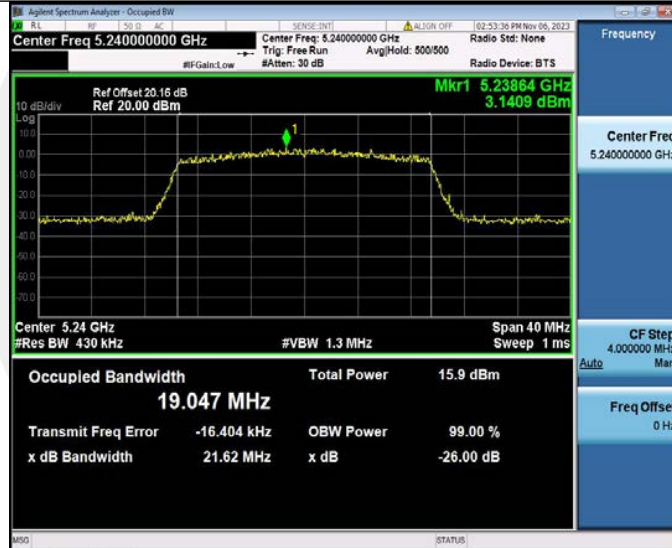
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11AX20MIMO_Ant1_5240



11AX20MIMO_Ant2_5240



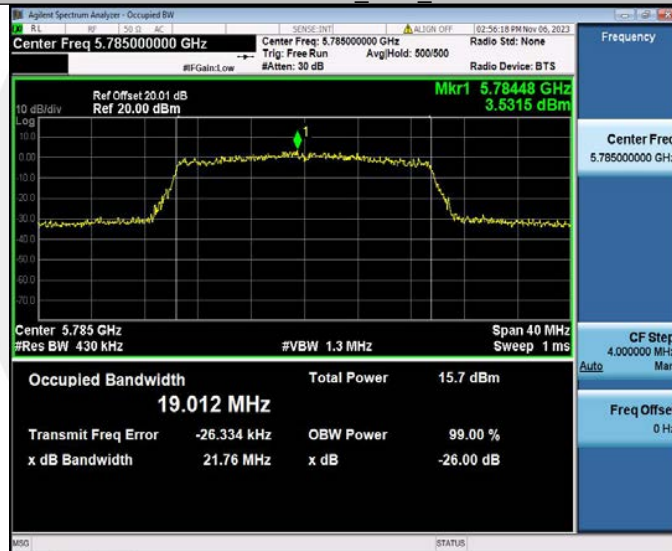
11AX20MIMO_Ant1_5745



11AX20MIMO_Ant2_5745



11AX20MIMO_Ant1_5785



11AX20MIMO_Ant2_5785



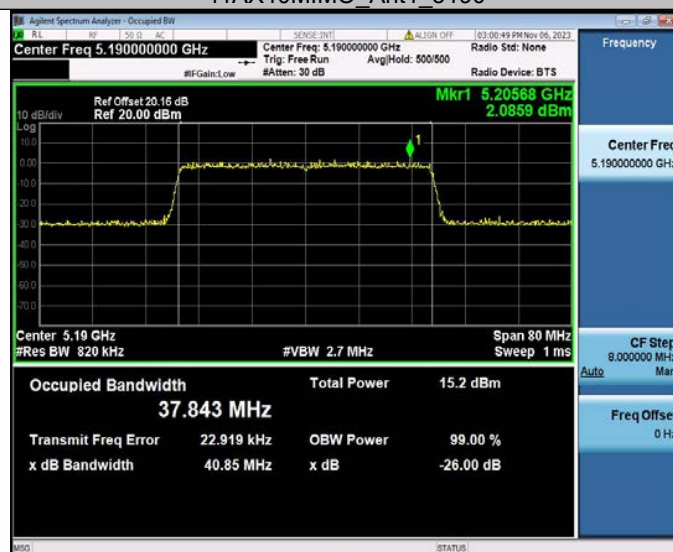
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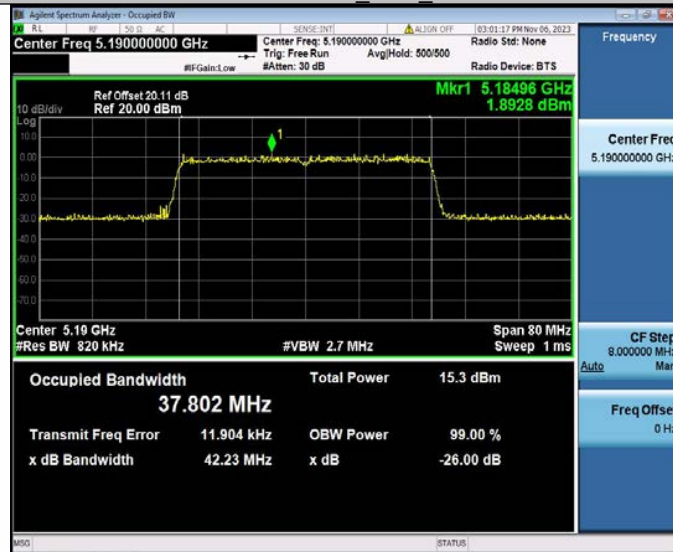
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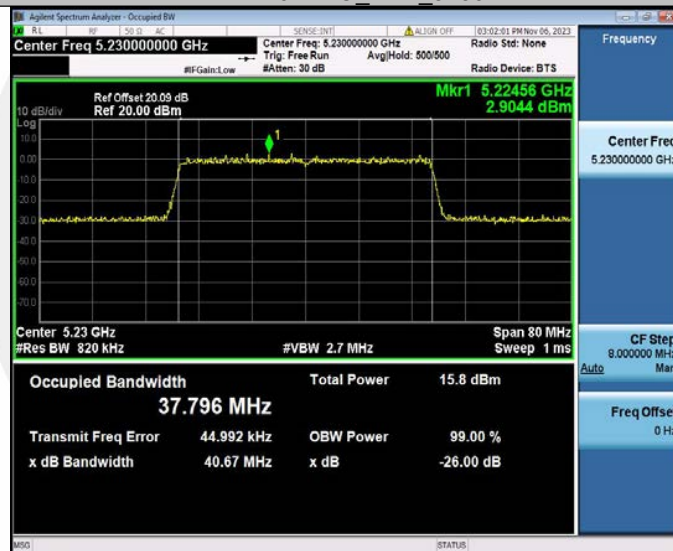
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11AX40MIMO_Ant2_5190



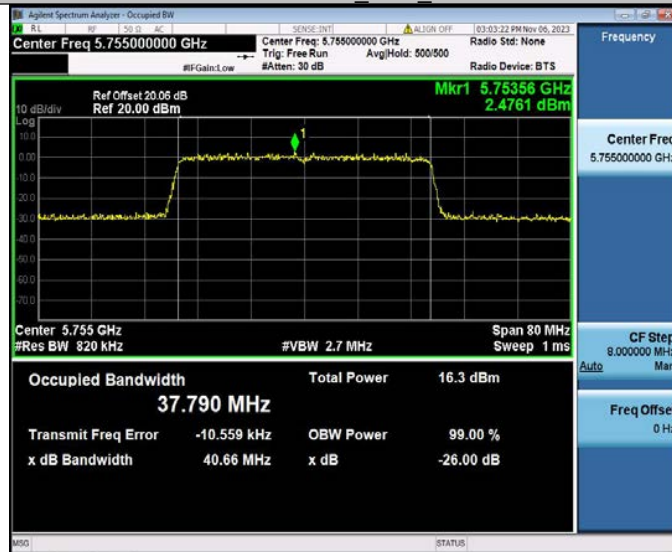
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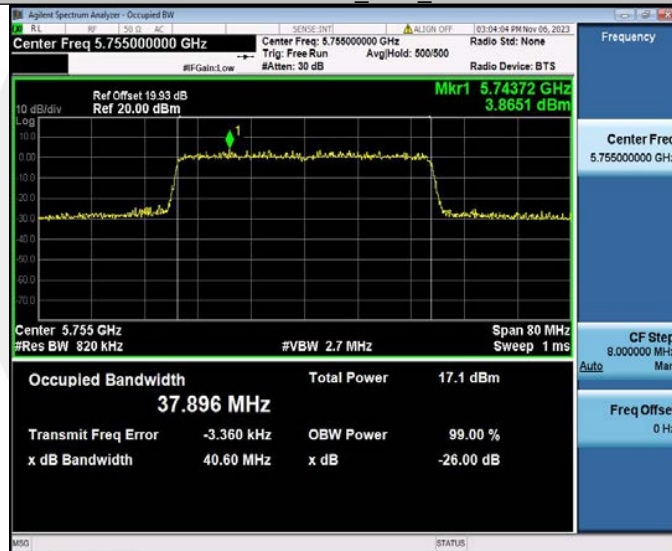
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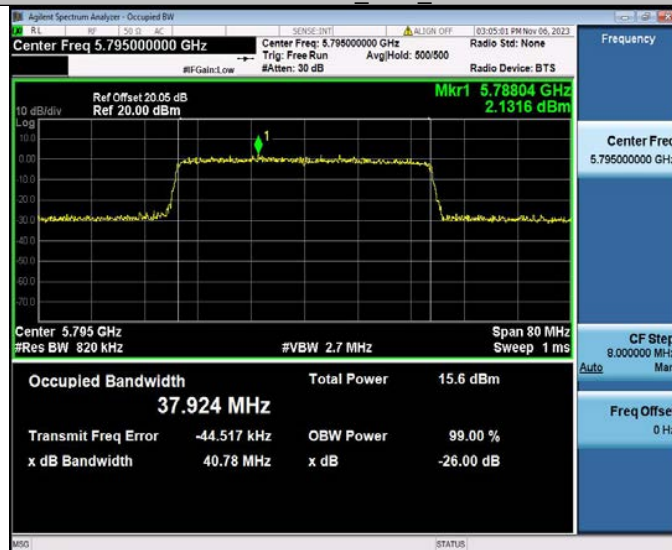
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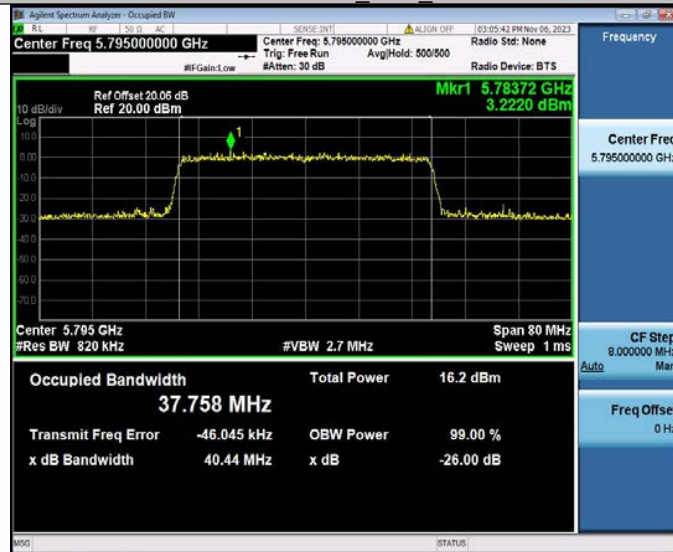
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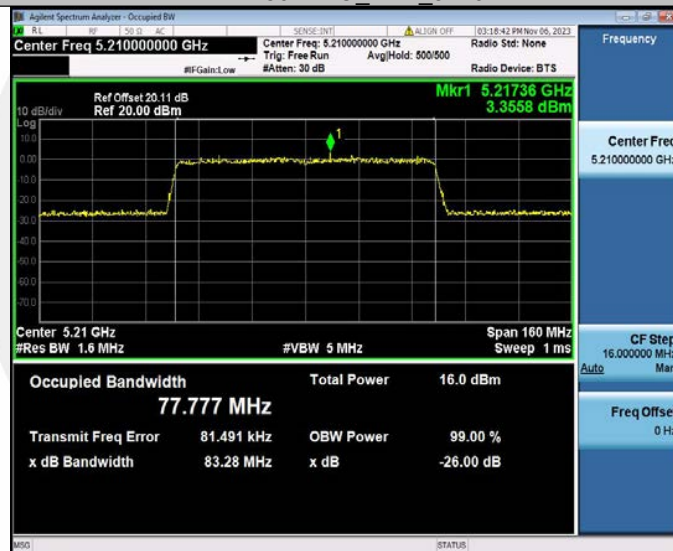
11AX40MIMO_Ant1_5795



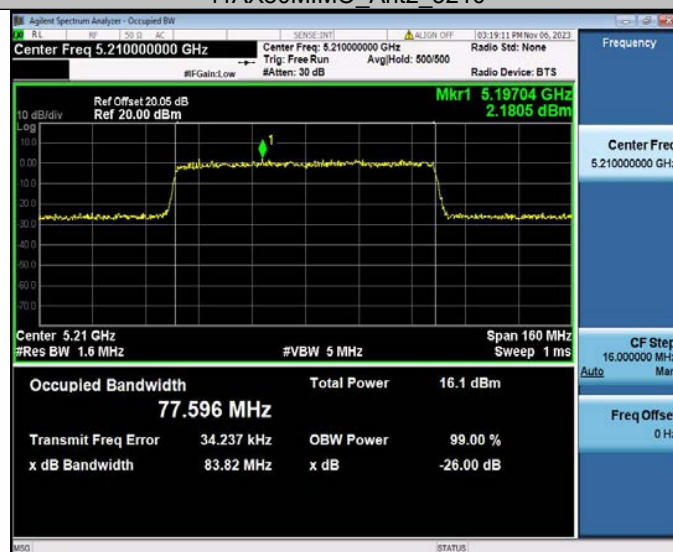
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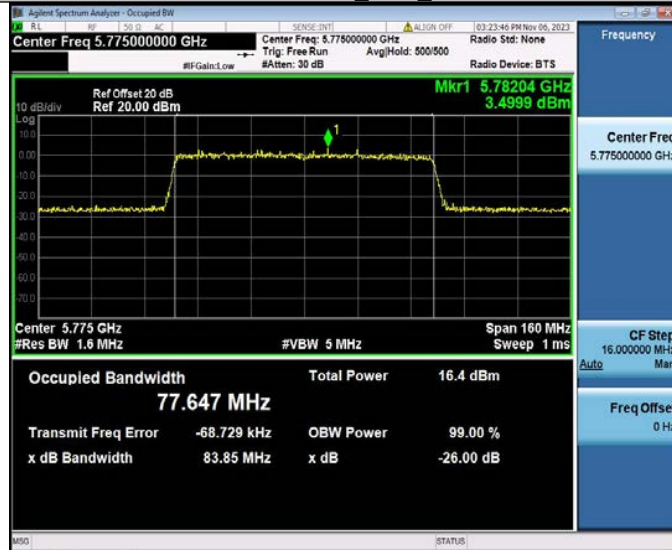
11AX80MIMO_Ant1_5210



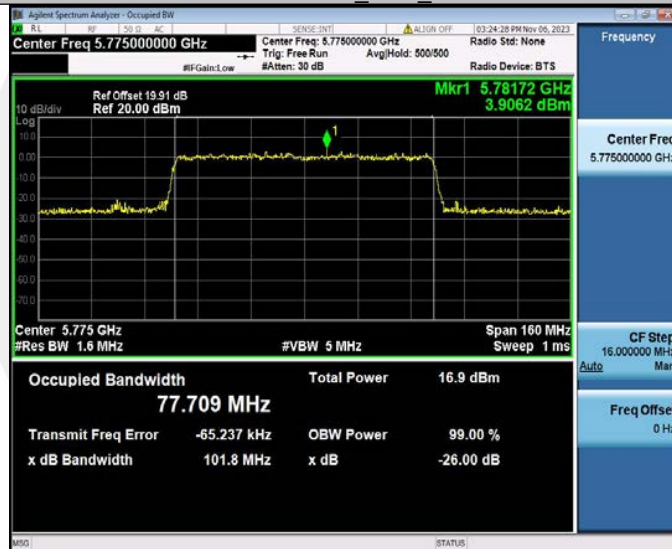
11AX80MIMO_Ant2_5210



11AX80MIMO_Ant1_5775



11AX80MIMO_Ant2_5775



Min emission bandwidth

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	13.160	5737.440	5750.600	0.5	PASS
	Ant2	5745	10.320	5740.960	5751.280	0.5	PASS
	Ant1	5785	15.080	5777.360	5792.440	0.5	PASS
	Ant2	5785	15.080	5777.440	5792.520	0.5	PASS
	Ant1	5825	13.840	5817.400	5831.240	0.5	PASS
	Ant2	5825	12.520	5818.680	5831.200	0.5	PASS
11N20MIMO	Ant1	5745	13.760	5737.480	5751.240	0.5	PASS
	Ant2	5745	12.520	5739.880	5752.400	0.5	PASS
	Ant1	5785	15.120	5777.400	5792.520	0.5	PASS
	Ant2	5785	13.800	5778.680	5792.480	0.5	PASS
	Ant1	5825	15.080	5817.400	5832.480	0.5	PASS
	Ant2	5825	15.160	5817.400	5832.560	0.5	PASS
11N40MIMO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant2	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant1	5795	36.080	5776.840	5812.920	0.5	PASS
	Ant2	5795	36.400	5776.760	5813.160	0.5	PASS
11AC20MIMO	Ant1	5745	13.800	5738.720	5752.520	0.5	PASS
	Ant2	5745	13.640	5738.840	5752.480	0.5	PASS
	Ant1	5785	12.640	5779.920	5792.560	0.5	PASS
	Ant2	5785	15.200	5777.320	5792.520	0.5	PASS
	Ant1	5825	13.760	5818.800	5832.560	0.5	PASS
	Ant2	5825	15.000	5817.520	5832.520	0.5	PASS
11AC40MIMO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant2	5755	36.320	5736.840	5773.160	0.5	PASS
	Ant1	5795	35.920	5776.840	5812.760	0.5	PASS
	Ant2	5795	36.320	5776.840	5813.160	0.5	PASS
11AC80MIMO	Ant1	5775	76.160	5736.760	5812.920	0.5	PASS
	Ant2	5775	76.000	5736.760	5812.760	0.5	PASS
11AX20MIMO	Ant1	5745	17.680	5736.360	5754.040	0.5	PASS
	Ant2	5745	17.320	5736.680	5754.000	0.5	PASS
	Ant1	5785	18.040	5775.880	5793.920	0.5	PASS
	Ant2	5785	15.320	5777.400	5792.720	0.5	PASS
	Ant1	5825	18.720	5815.640	5834.360	0.5	PASS
	Ant2	5825	18.000	5816.240	5834.240	0.5	PASS
11AX40MIMO	Ant1	5755	37.440	5736.120	5773.560	0.5	PASS
	Ant2	5755	37.360	5736.200	5773.560	0.5	PASS
	Ant1	5795	37.280	5776.360	5813.640	0.5	PASS
	Ant2	5795	36.560	5776.600	5813.160	0.5	PASS
11AX80MIMO	Ant1	5775	76.480	5736.440	5812.920	0.5	PASS
	Ant2	5775	77.280	5736.120	5813.400	0.5	PASS

11A_Ant1_5745



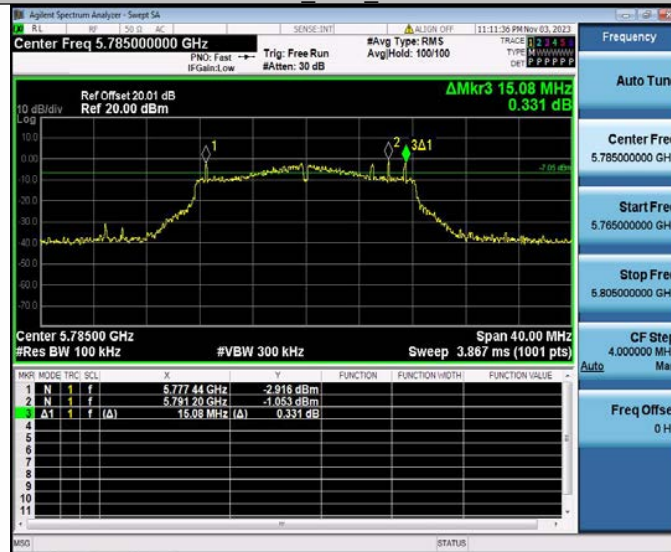
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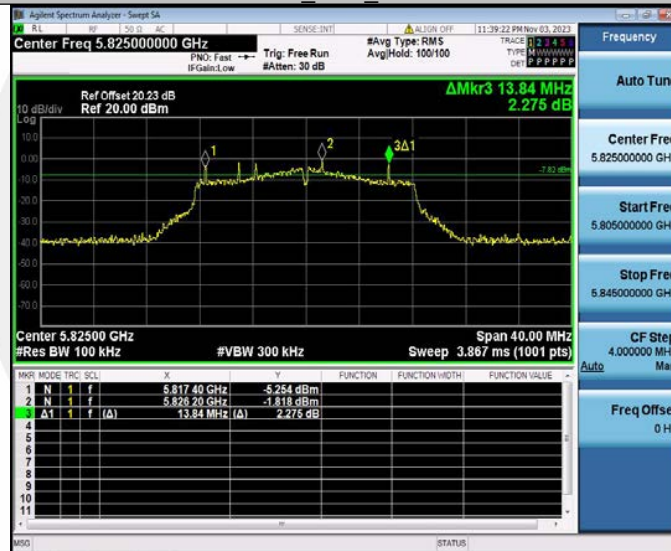
11A_Ant1_5785



11A_Ant2_5785



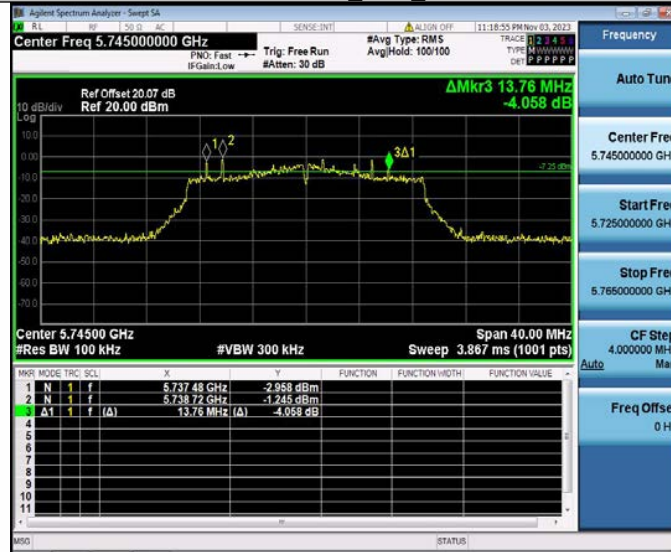
11A_Ant1_5825



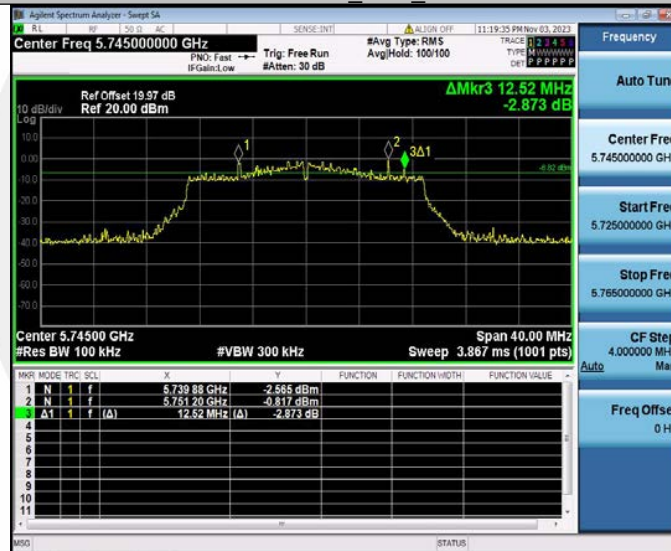
11A_Ant2_5825



11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



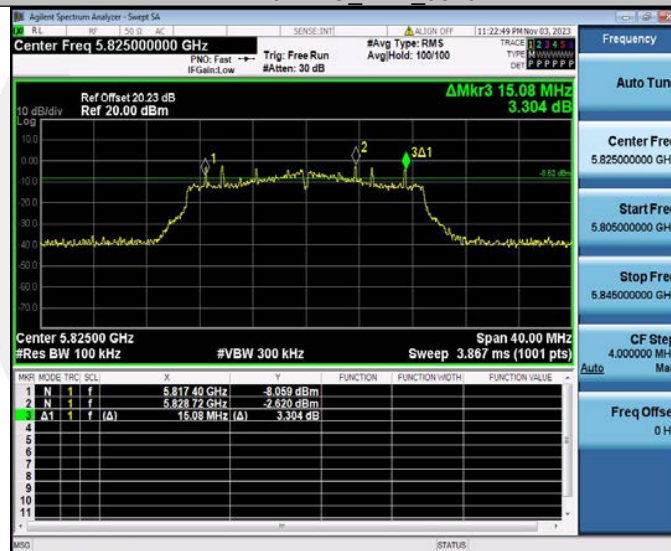
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11N20MIMO_Ant2_5785



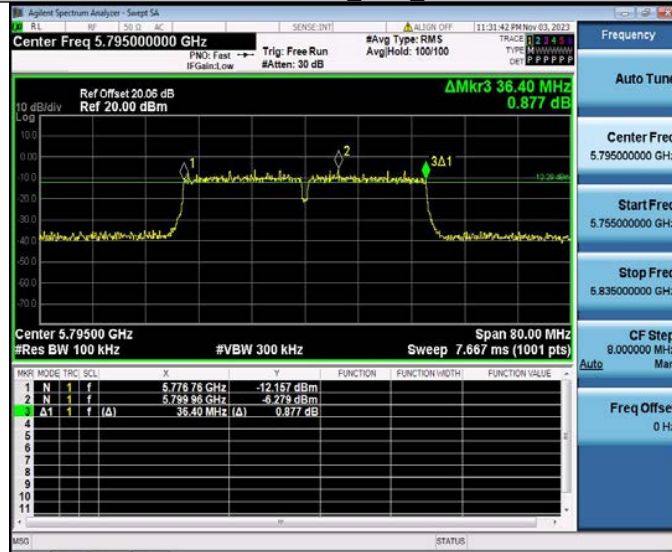
11N20MIMO_Ant1_5825



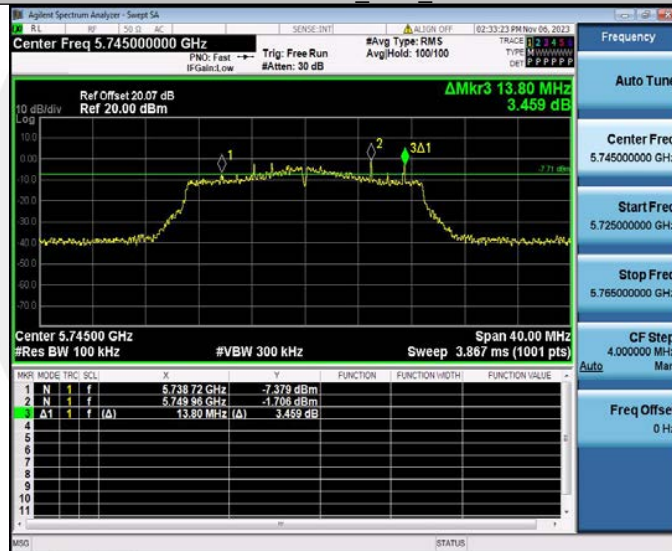
11N20MIMO_Ant2_5825



11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5745



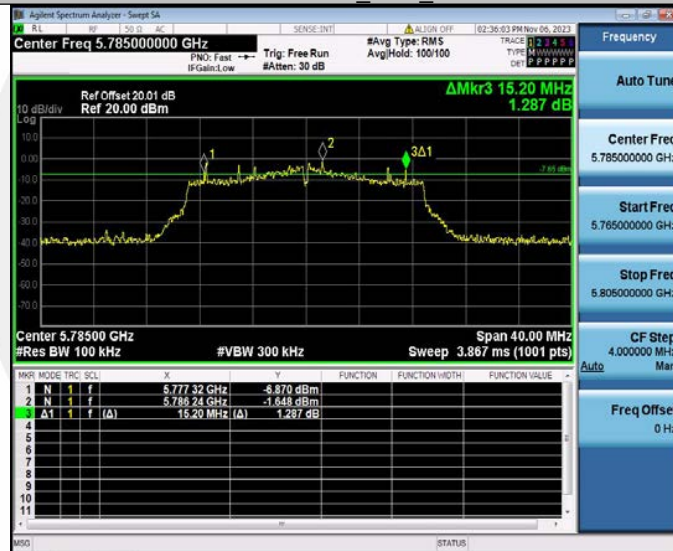
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11AC20MIMO_Ant1_5785



11AC20MIMO_Ant2_5785



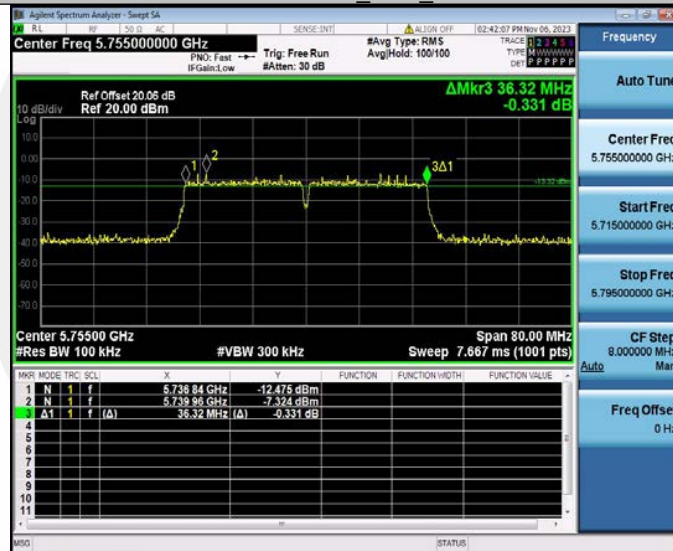
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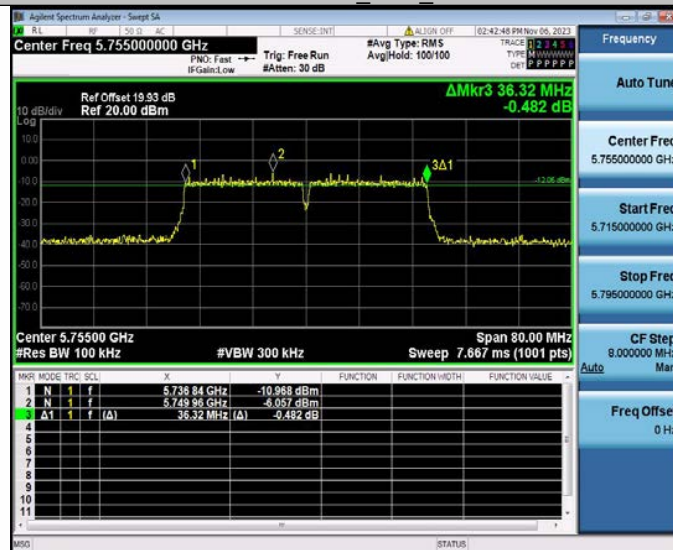
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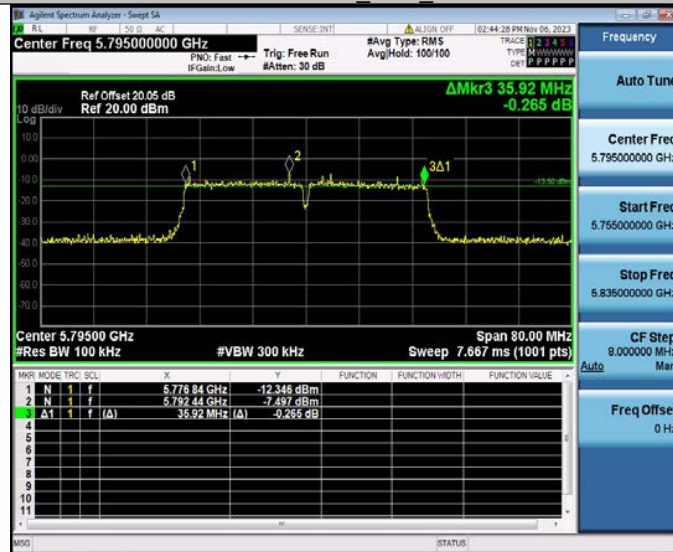
11AC40MIMO_Ant1_5755



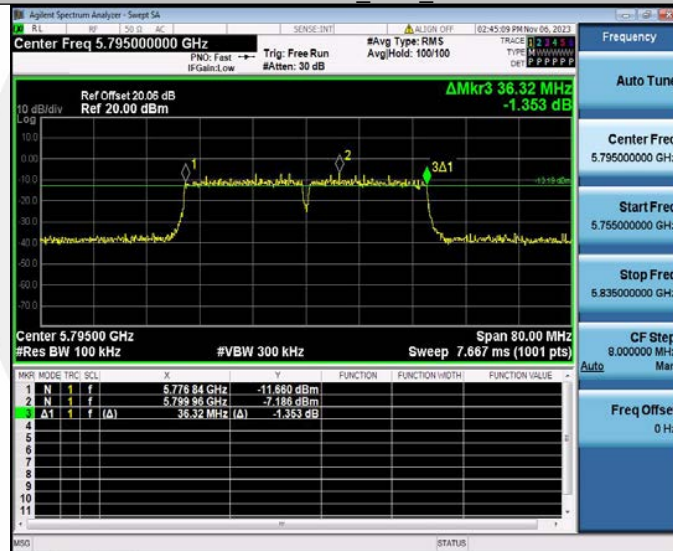
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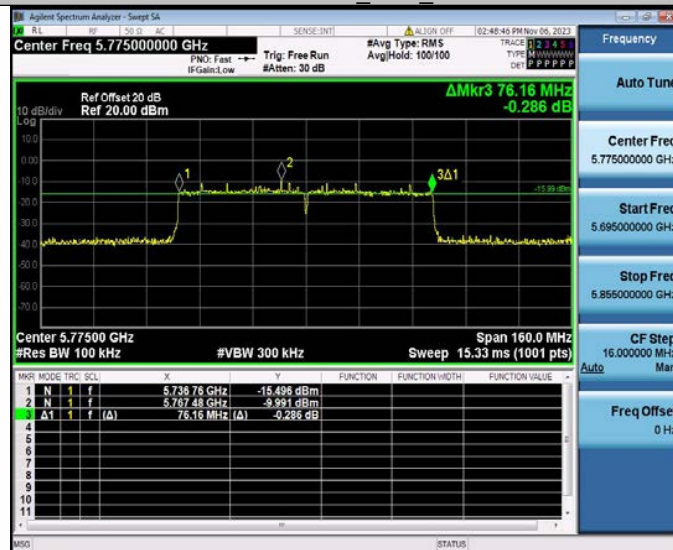
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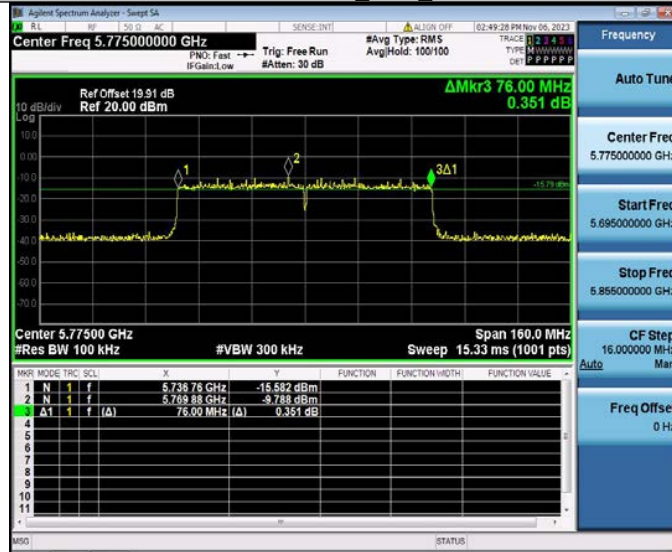
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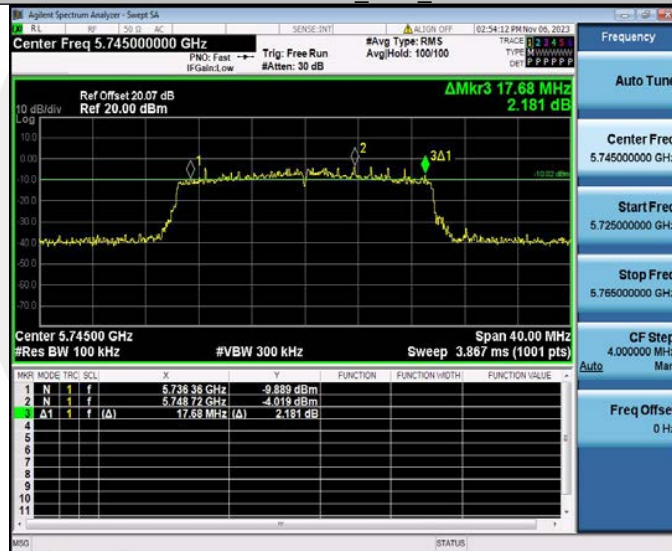
11AC80MIMO_Ant1_5775



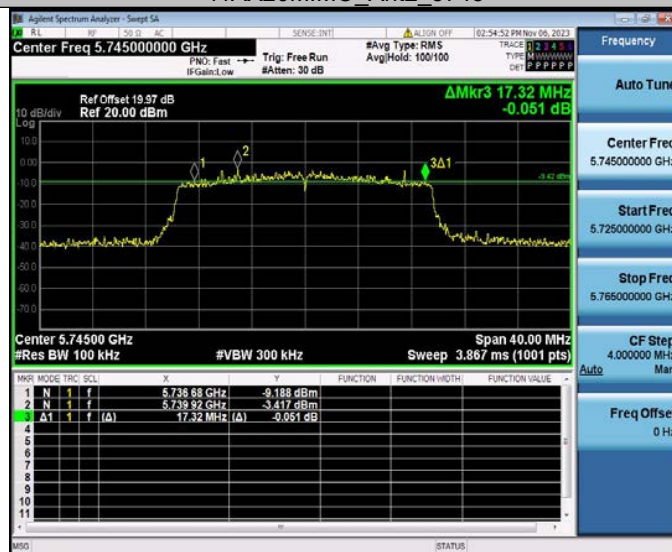
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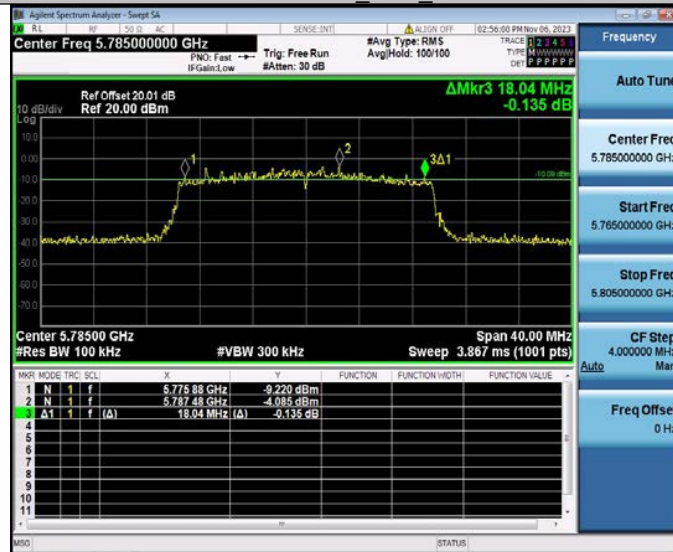
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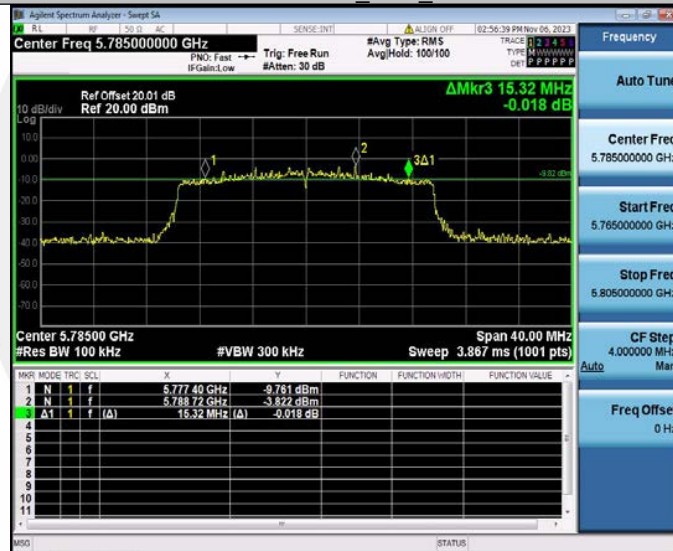
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11AX20MIMO_Ant1_5785



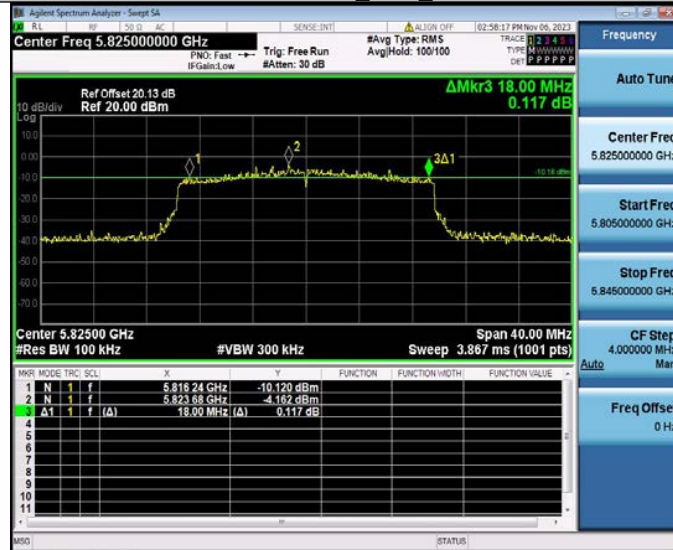
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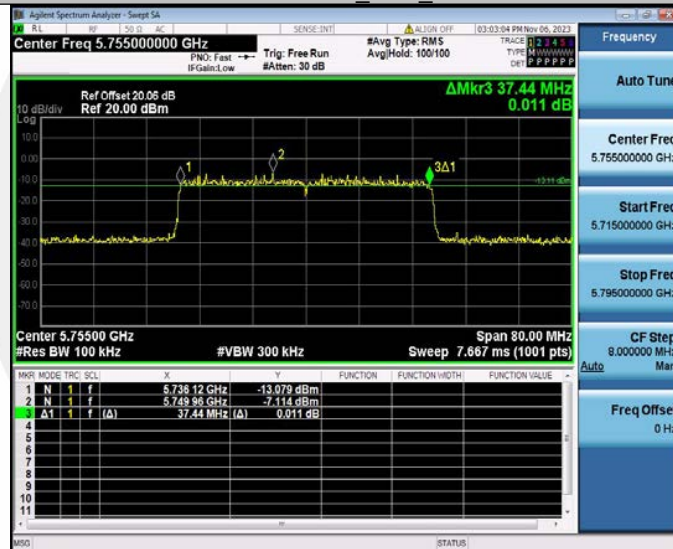
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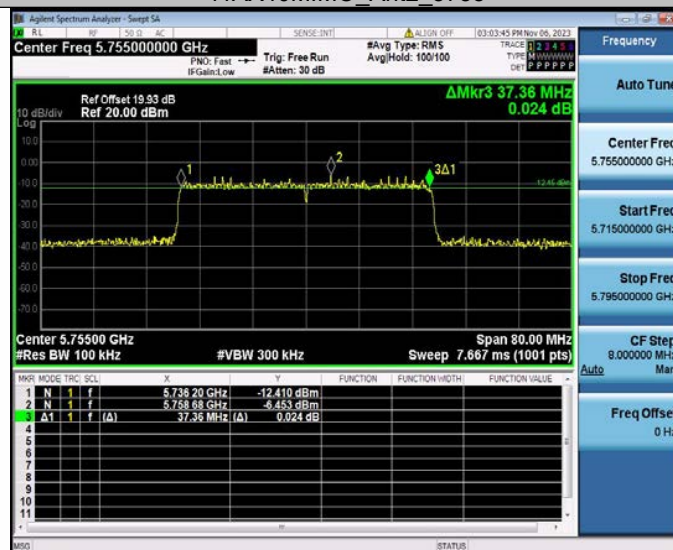
11AX20MIMO_Ant2_5825



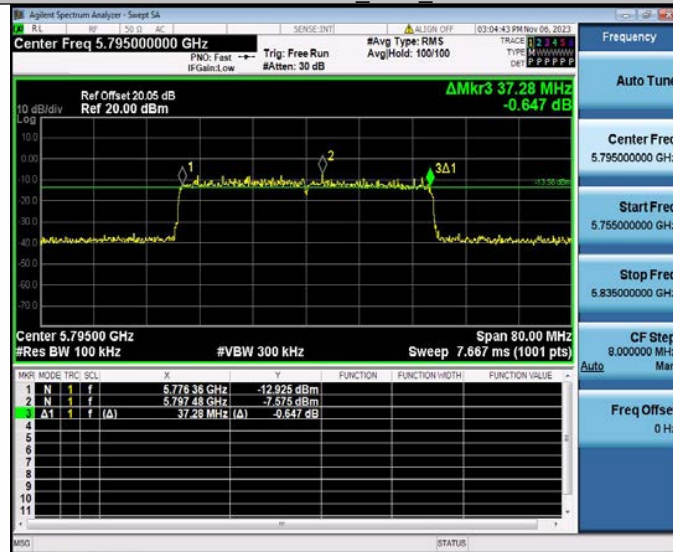
11AX40MIMO_Ant1_5755



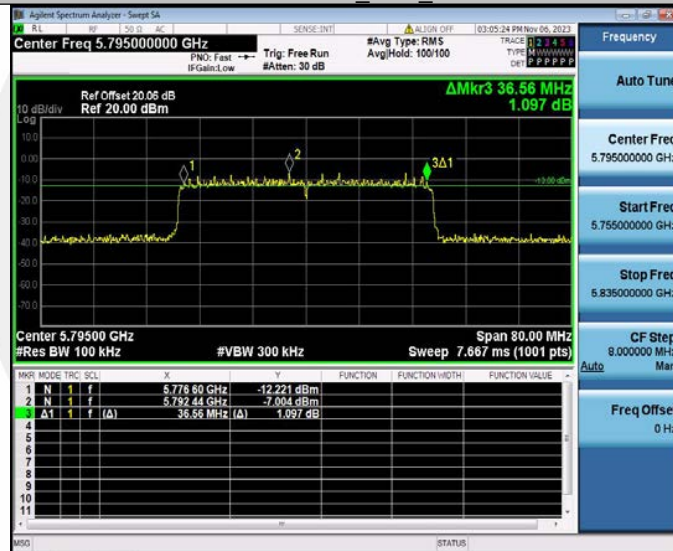
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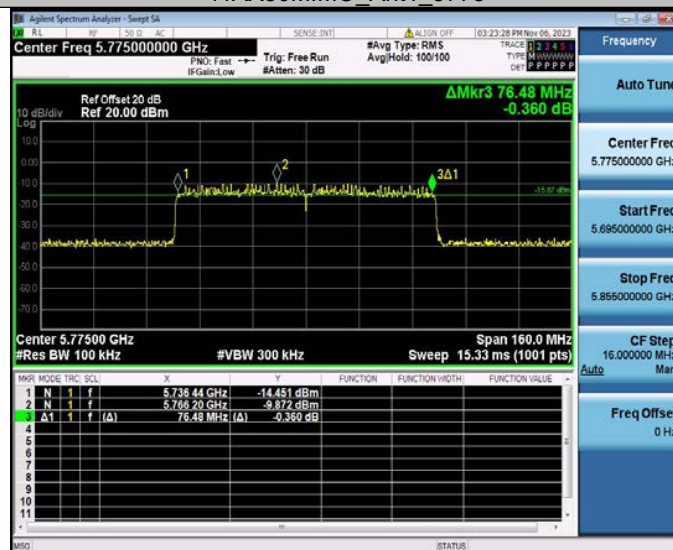
11AX40MIMO_Ant1_5795

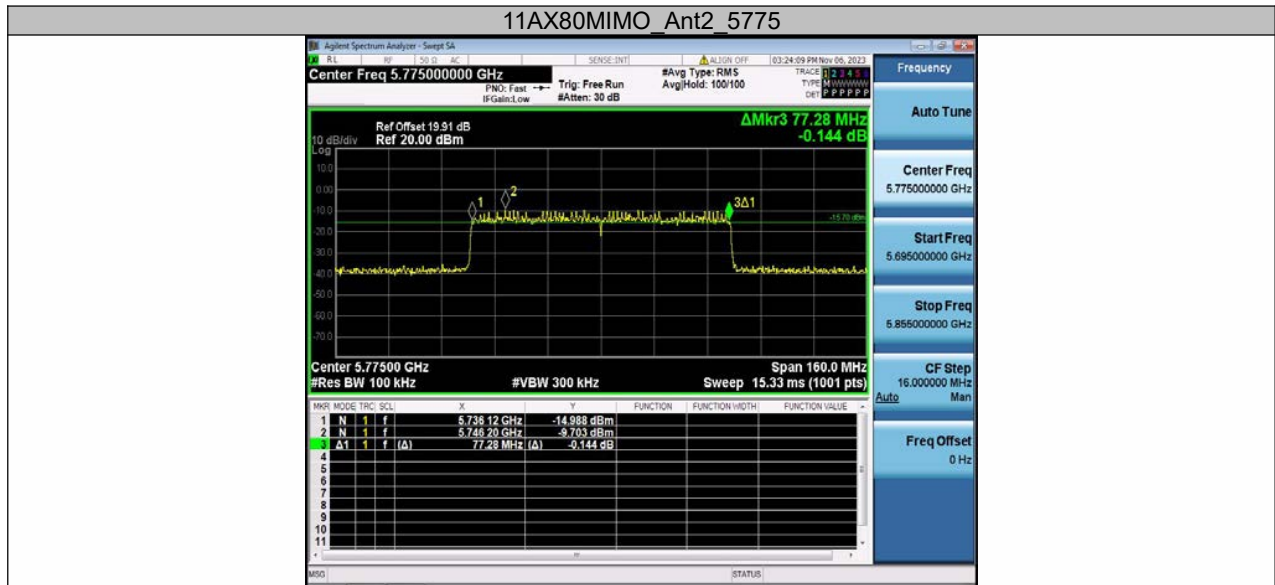


11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5775





8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)
According to RSS 247, 6.2

8.2.2 Conformance Limit

FCC Limit:

■ For the band 5.15-5.25 GHz

(a)(1) (i) For an outdoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

IC Limit:

■ Frequency band 5150-5250 MHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

■ Frequency band 5250-5350 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the power value.
- Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

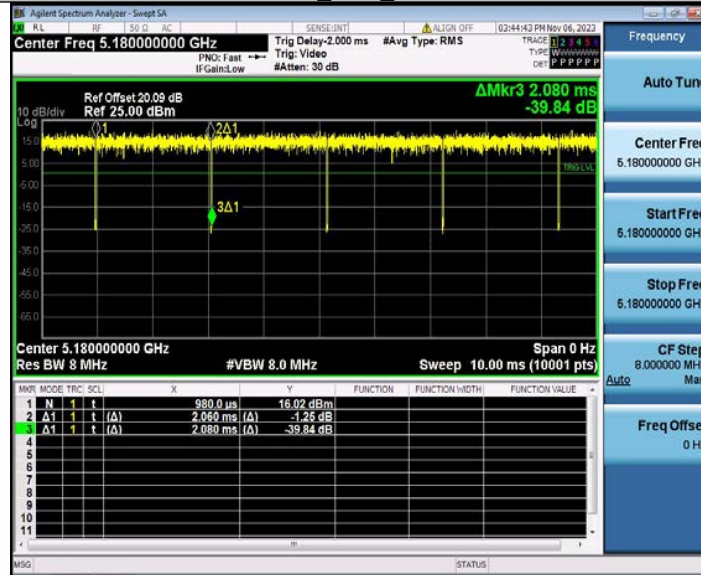
Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

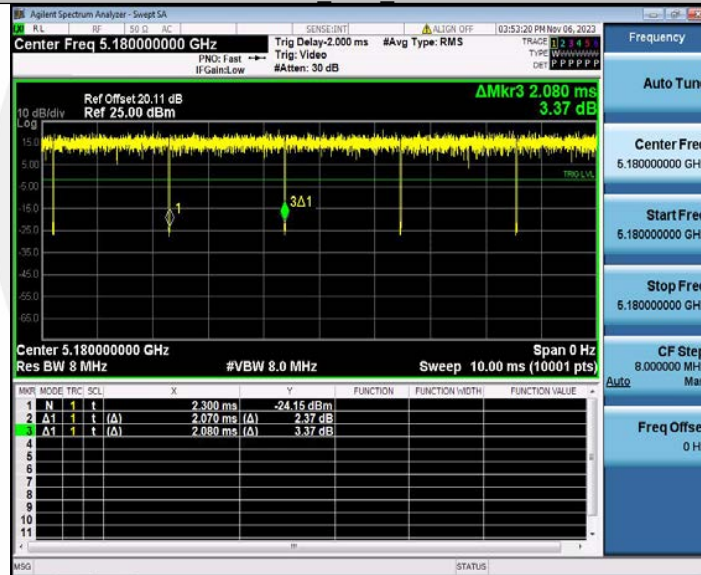
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.06	2.08	99.04
	Ant2	5180	2.07	2.08	99.52
	Ant1	5200	2.07	2.09	99.04
	Ant2	5200	2.06	2.08	99.04
	Ant1	5240	2.06	2.08	99.04
	Ant2	5240	2.06	2.08	99.04
	Ant1	5745	2.07	2.09	99.04
	Ant2	5745	2.06	2.72	75.74
	Ant1	5785	2.07	2.09	99.04
	Ant2	5785	2.06	2.08	99.04
	Ant1	5825	2.07	2.09	99.04
	Ant2	5825	2.06	2.08	99.04
11N20MIMO	Ant1	5180	1.92	7.69	24.97
	Ant2	5180	1.92	7.69	24.97
	Ant1	5200	1.92	7.70	24.94
	Ant2	5200	1.92	7.70	24.94
	Ant1	5240	1.92	7.70	24.94
	Ant2	5240	1.92	7.69	24.97
	Ant1	5745	1.92	7.70	24.94
	Ant2	5745	1.92	7.69	24.97
	Ant1	5785	1.92	7.70	24.94
	Ant2	5785	1.92	7.69	24.97
	Ant1	5825	1.92	7.70	24.94
	Ant2	5825	1.92	7.70	24.94
11N40MIMO	Ant1	5190	1.53	6.15	24.88
	Ant2	5190	1.53	6.16	24.84
	Ant1	5230	1.53	6.15	24.88
	Ant2	5230	1.54	6.16	25.00
	Ant1	5755	1.54	6.16	25.00
	Ant2	5755	1.53	6.16	24.84
	Ant1	5795	1.53	6.16	24.84
	Ant2	5795	1.54	6.16	25.00
11AC20MIMO	Ant1	5180	1.93	7.75	24.90
	Ant2	5180	1.93	7.75	24.90
	Ant1	5200	1.93	7.75	24.90
	Ant2	5200	1.93	7.75	24.90
	Ant1	5240	1.93	7.75	24.90
	Ant2	5240	1.93	7.75	24.90
	Ant1	5745	1.93	7.75	24.90
	Ant2	5745	1.93	7.75	24.90
	Ant1	5785	1.93	7.75	24.90
	Ant2	5785	1.93	7.75	24.90
	Ant1	5825	1.93	7.76	24.87
	Ant2	5825	1.94	7.76	25.00
11AC40MIMO	Ant1	5190	1.54	6.21	24.80
	Ant2	5190	1.54	6.21	24.80
	Ant1	5230	1.54	6.22	24.76
	Ant2	5230	1.54	6.21	24.80
	Ant1	5755	1.54	6.21	24.80
	Ant2	5755	1.54	6.21	24.80
	Ant1	5795	1.54	6.21	24.80
	Ant2	5795	1.55	6.22	24.92
11AC80MIMO	Ant1	5210	2.24	8.97	24.97
	Ant2	5210	2.24	8.98	24.94
	Ant1	5775	2.24	8.98	24.94
	Ant2	5775	2.24	8.98	24.94
11AX20MIMO	Ant1	5180	1.49	5.97	24.96

	Ant2	5180	1.49	5.97	24.96
	Ant1	5200	1.49	5.97	24.96
	Ant2	5200	1.49	5.97	24.96
	Ant1	5240	1.49	5.97	24.96
	Ant2	5240	1.48	5.96	24.83
	Ant1	5745	1.49	5.97	24.96
	Ant2	5745	1.48	5.96	24.83
	Ant1	5785	1.48	5.96	24.83
	Ant2	5785	1.49	5.97	24.96
	Ant1	5825	1.49	5.97	24.96
	Ant2	5825	1.49	5.97	24.96
11AX40MIMO	Ant1	5190	1.24	4.95	25.05
	Ant2	5190	1.24	4.96	25.00
	Ant1	5230	1.24	4.95	25.05
	Ant2	5230	1.23	4.94	24.90
	Ant1	5755	1.24	4.95	25.05
	Ant2	5755	1.24	4.96	25.00
	Ant1	5795	1.23	4.95	24.85
	Ant2	5795	1.23	4.95	24.85
11AX80MIMO	Ant1	5210	0.40	1.62	24.69
	Ant2	5210	0.40	1.62	24.69
	Ant1	5775	0.40	1.62	24.69
	Ant2	5775	0.40	1.61	24.84

11A_Ant1_5180



11A_Ant2_5180



11A_Ant1_5200