



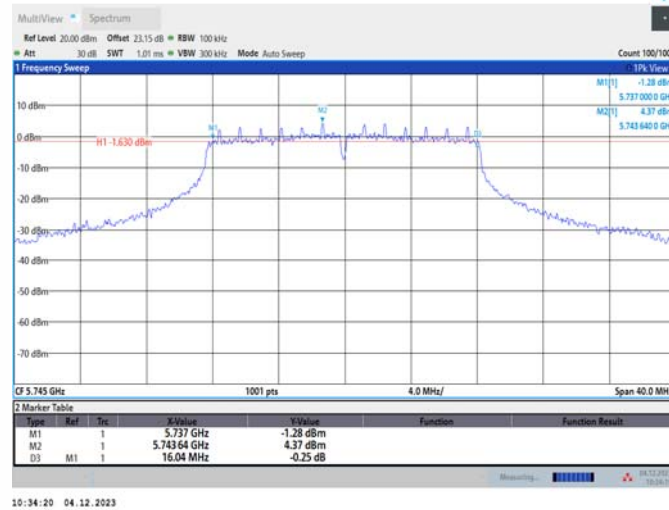




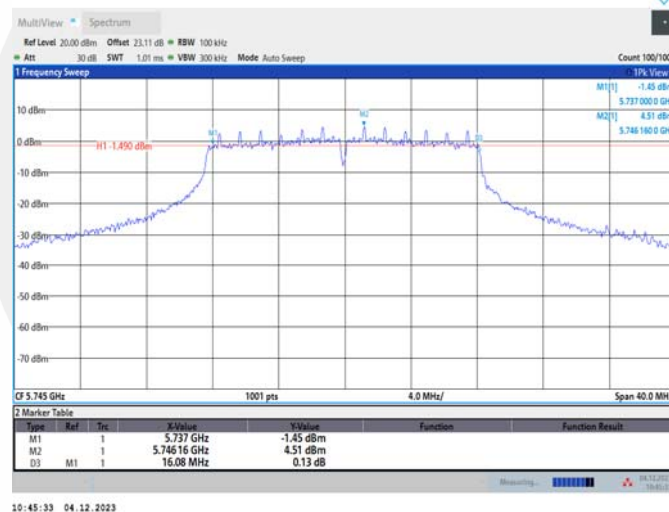
Min emission bandwidth (6db)

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.04	5737.00	5753.04	0.5	PASS
	Ant2	5745	16.08	5737.00	5753.08	0.5	PASS
	Ant1	5785	16.08	5777.00	5793.08	0.5	PASS
	Ant2	5785	16.08	5777.00	5793.08	0.5	PASS
	Ant1	5825	16.08	5817.00	5833.08	0.5	PASS
	Ant2	5825	16.08	5817.00	5833.08	0.5	PASS
11N20MIMO	Ant1	5745	16.92	5736.52	5753.44	0.5	PASS
	Ant2	5745	17.56	5736.12	5753.68	0.5	PASS
	Ant1	5785	16.44	5777.00	5793.44	0.5	PASS
	Ant2	5785	17.36	5776.32	5793.68	0.5	PASS
	Ant1	5825	16.44	5817.00	5833.44	0.5	PASS
	Ant2	5825	17.56	5816.12	5833.68	0.5	PASS
11N40MIMO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant2	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant1	5795	35.12	5777.40	5812.52	0.5	PASS
	Ant2	5795	35.12	5777.40	5812.52	0.5	PASS
11AC20MIMO	Ant1	5745	16.44	5737.00	5753.44	0.5	PASS
	Ant2	5745	17.36	5736.32	5753.68	0.5	PASS
	Ant1	5785	17.28	5776.44	5793.72	0.5	PASS
	Ant2	5785	17.60	5776.12	5793.72	0.5	PASS
	Ant1	5825	16.28	5817.00	5833.28	0.5	PASS
	Ant2	5825	17.56	5816.12	5833.68	0.5	PASS
11AC40MIMO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant2	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant1	5795	35.12	5777.40	5812.52	0.5	PASS
	Ant2	5795	35.12	5777.40	5812.52	0.5	PASS
11AC80MIMO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	0.5	PASS
11AX20MIMO	Ant1	5745	18.280	5735.920	5754.200	0.5	PASS
	Ant2	5745	18.640	5735.720	5754.360	0.5	PASS
	Ant1	5785	17.520	5776.680	5794.200	0.5	PASS
	Ant2	5785	18.120	5776.080	5794.200	0.5	PASS
	Ant1	5825	17.840	5816.160	5834.000	0.5	PASS
	Ant2	5825	16.880	5816.880	5833.760	0.5	PASS
11AX40MIMO	Ant1	5755	37.520	5736.200	5773.720	0.5	PASS
	Ant2	5755	37.200	5736.280	5773.480	0.5	PASS
	Ant1	5795	37.280	5776.200	5813.480	0.5	PASS
	Ant2	5795	36.640	5776.280	5812.920	0.5	PASS
11AX80MIMO	Ant1	5775	76.480	5736.920	5813.400	0.5	PASS
	Ant2	5775	76.480	5736.280	5812.760	0.5	PASS

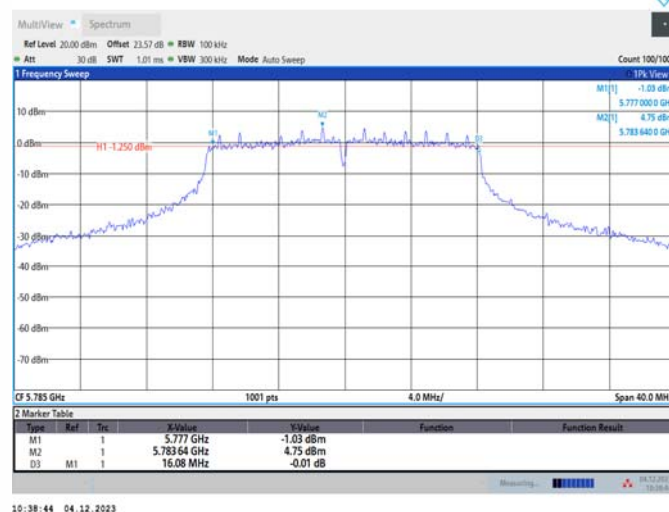
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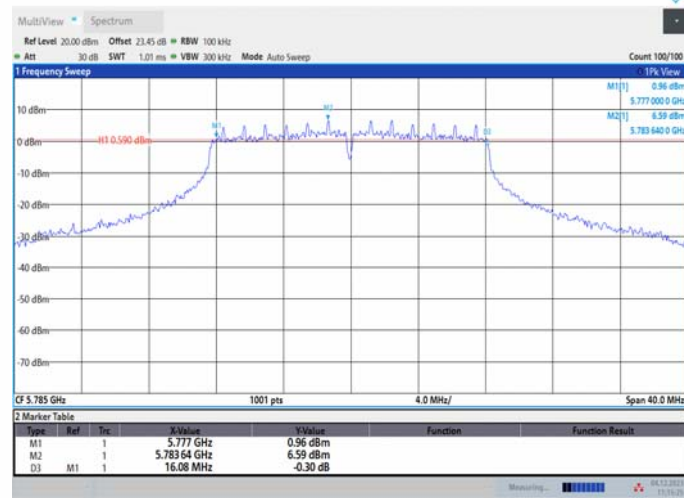
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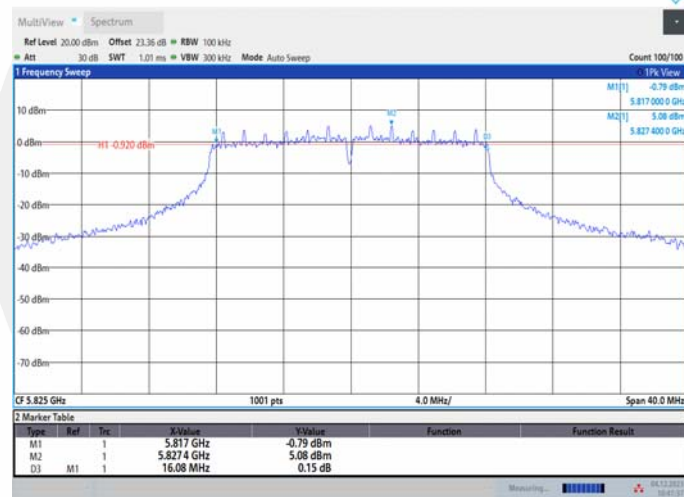


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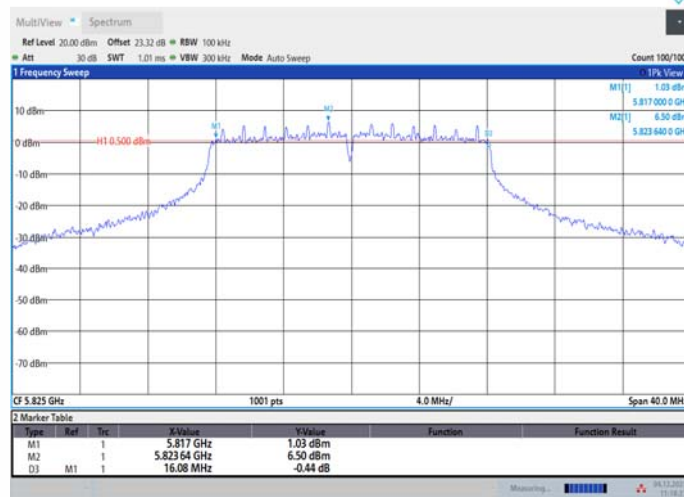
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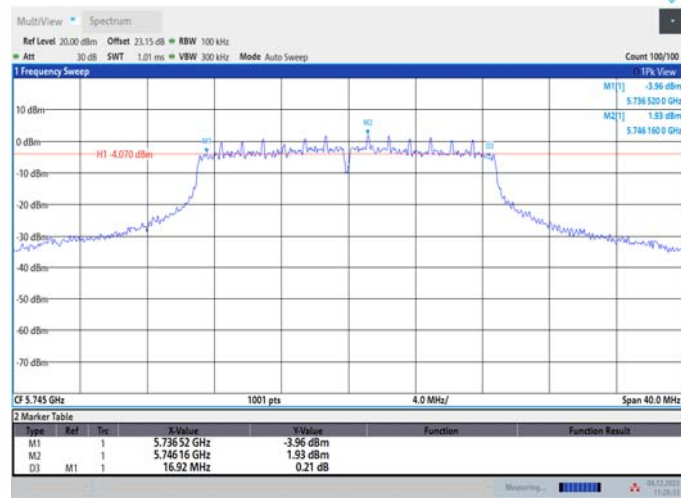
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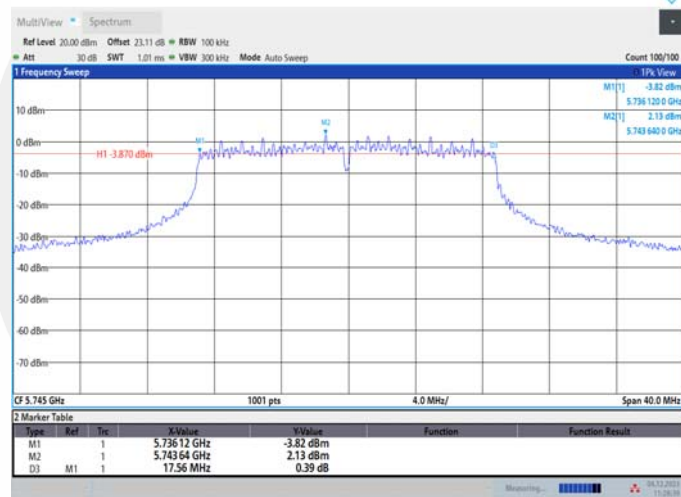
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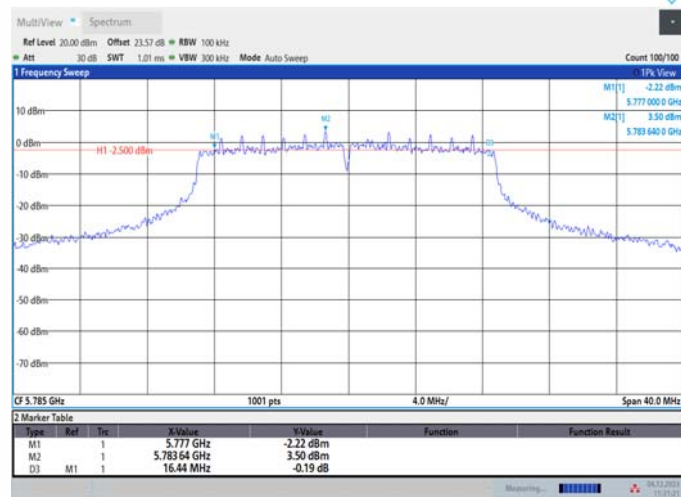
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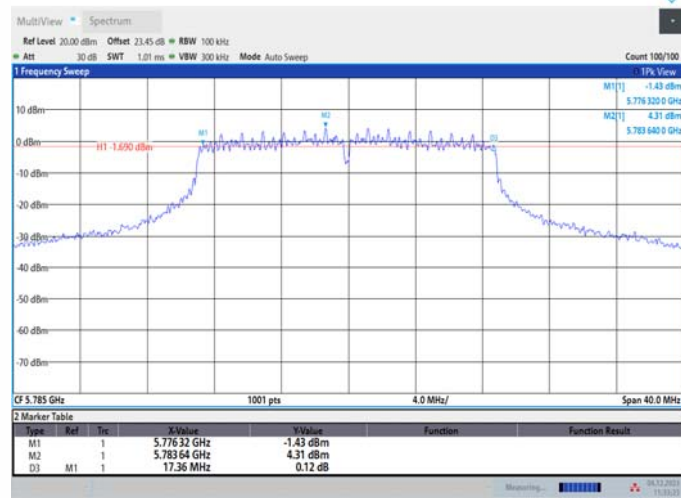
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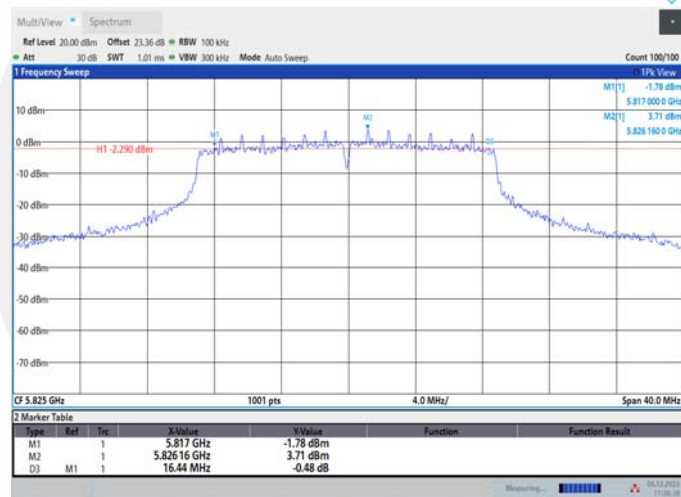
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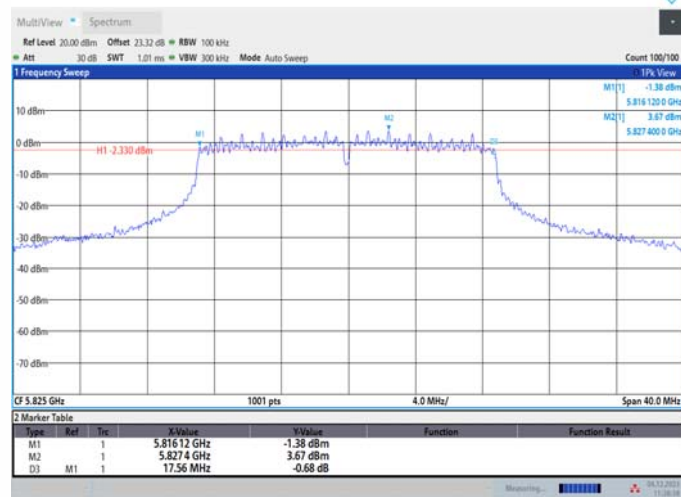
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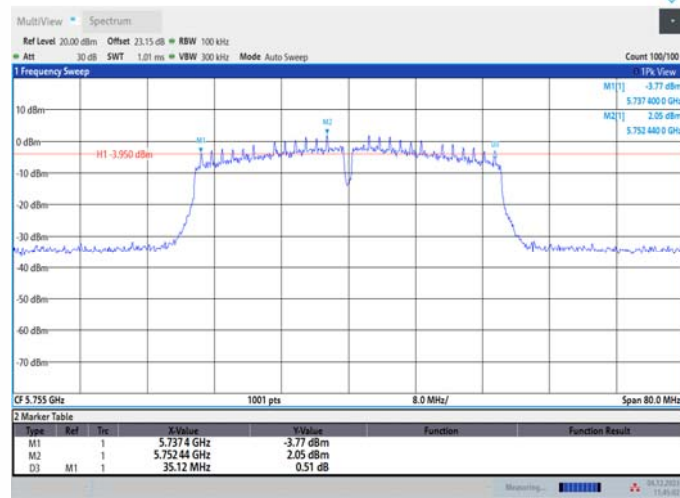
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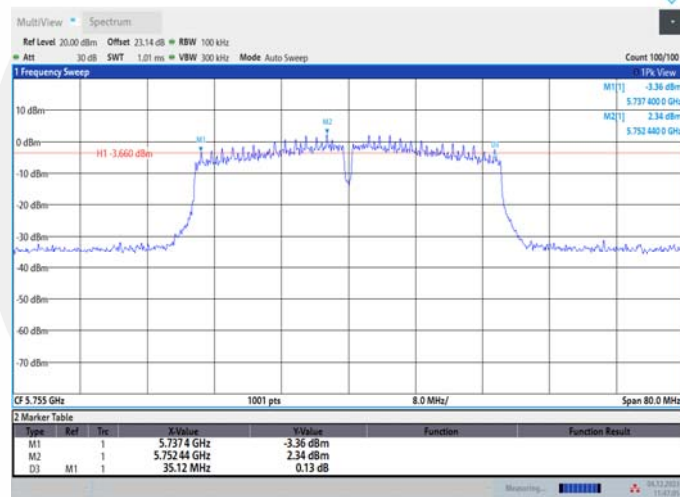


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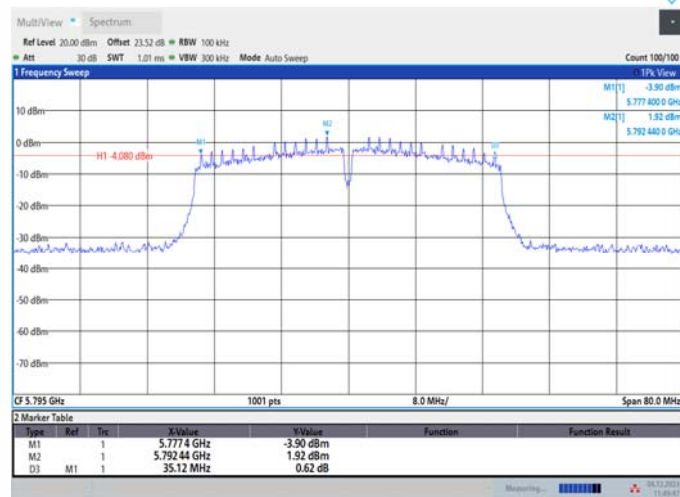
11N40MIMO Ant1 5755



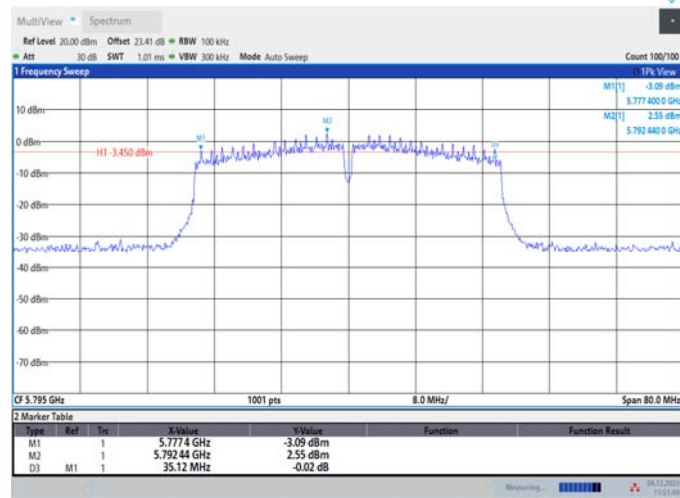
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11N40MIMO Ant1 5795

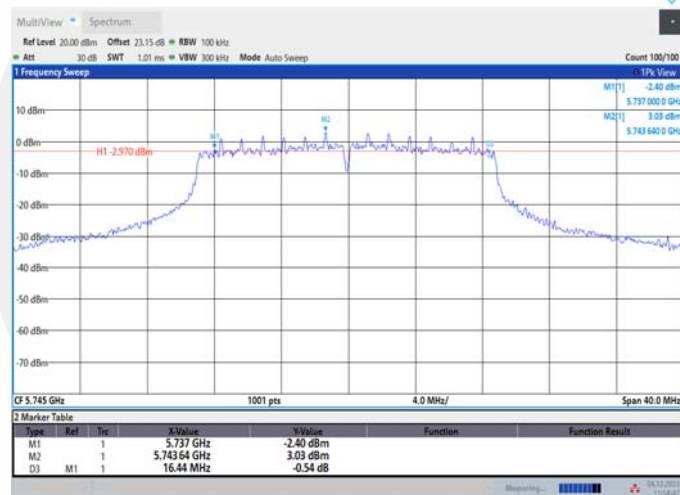


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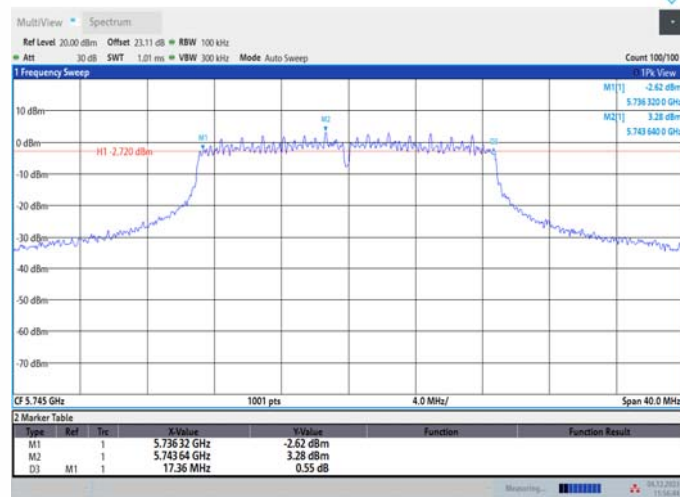
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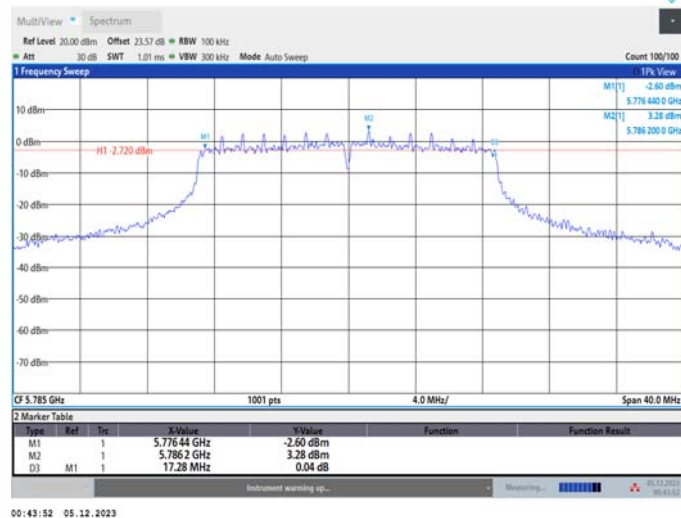
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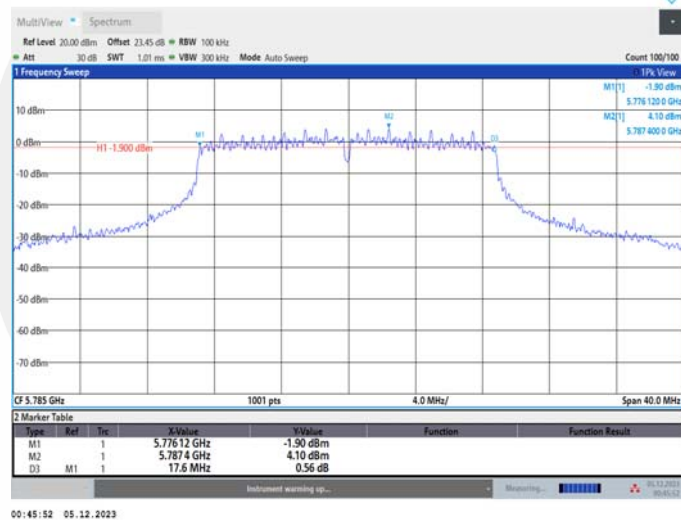


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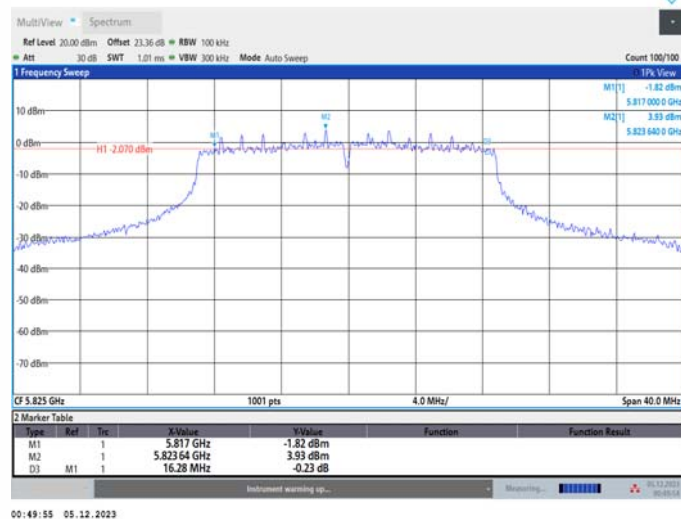
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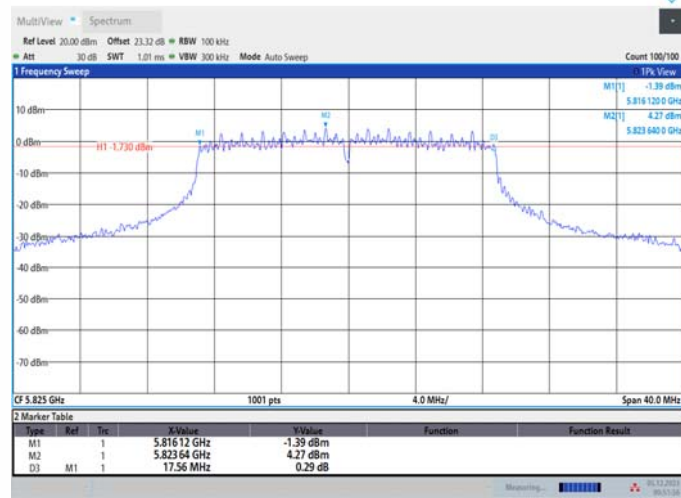
11AC20MIMO_Ant2_5785



11AC20MIMO_Ant1_5825

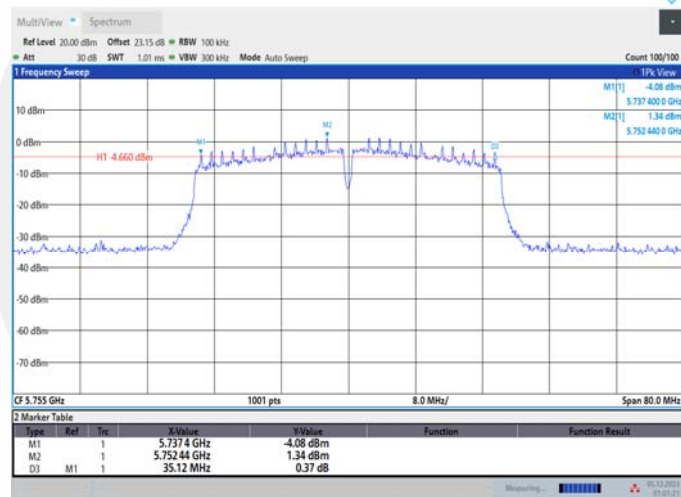


11AC20MIMO_Ant2_5825



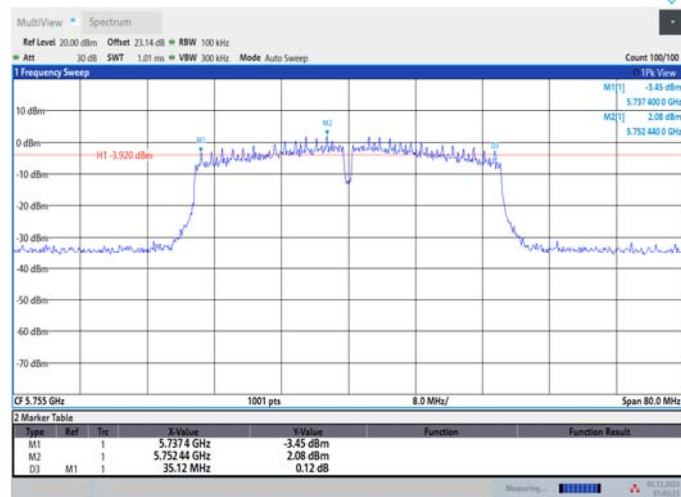
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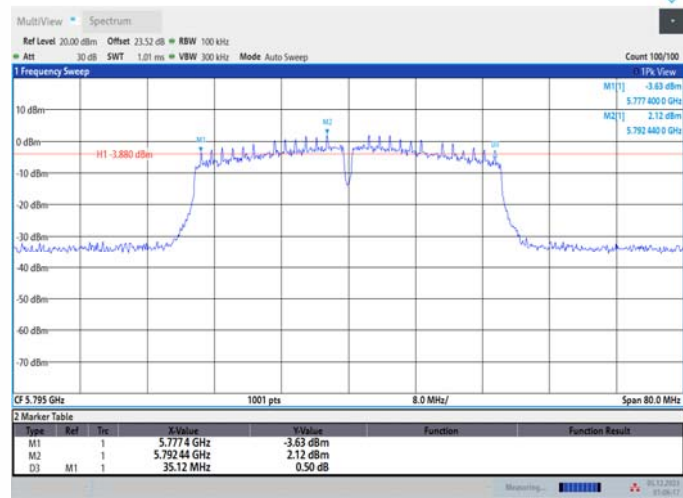
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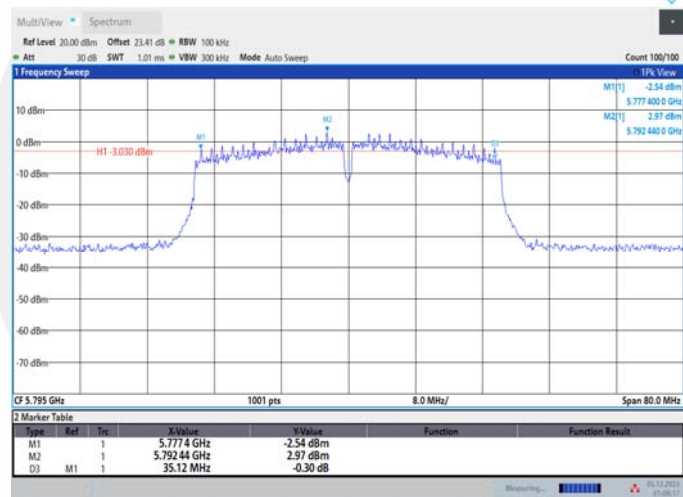


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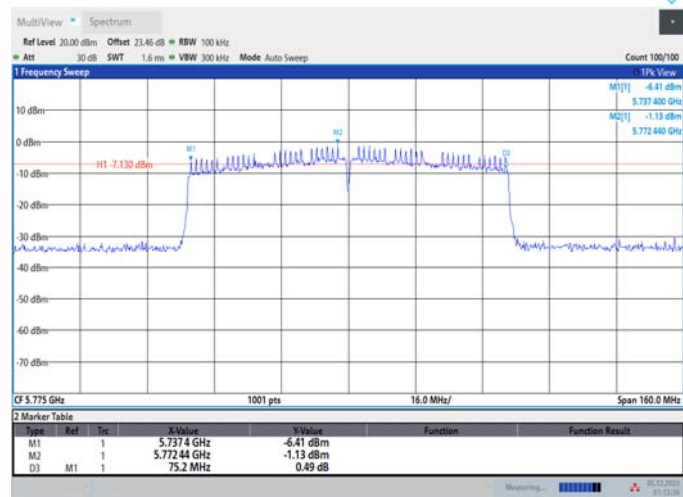
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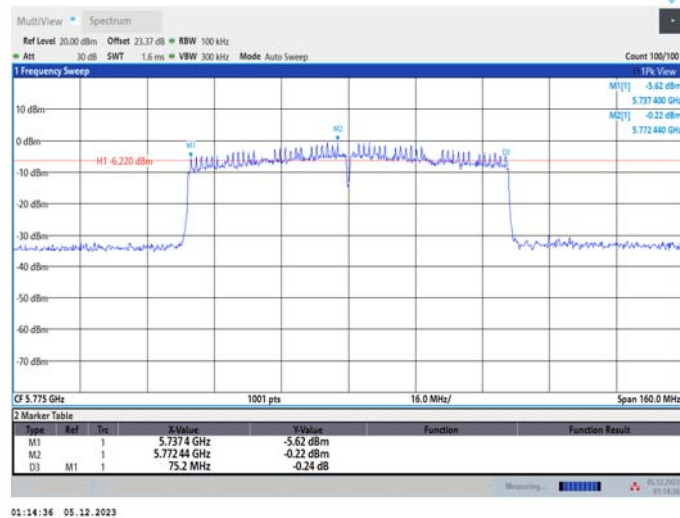
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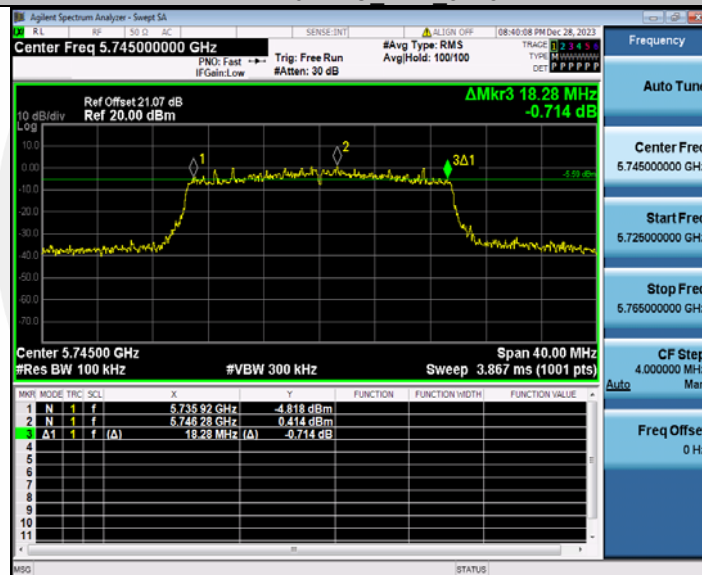
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11AC80MIMO_Ant2_5775



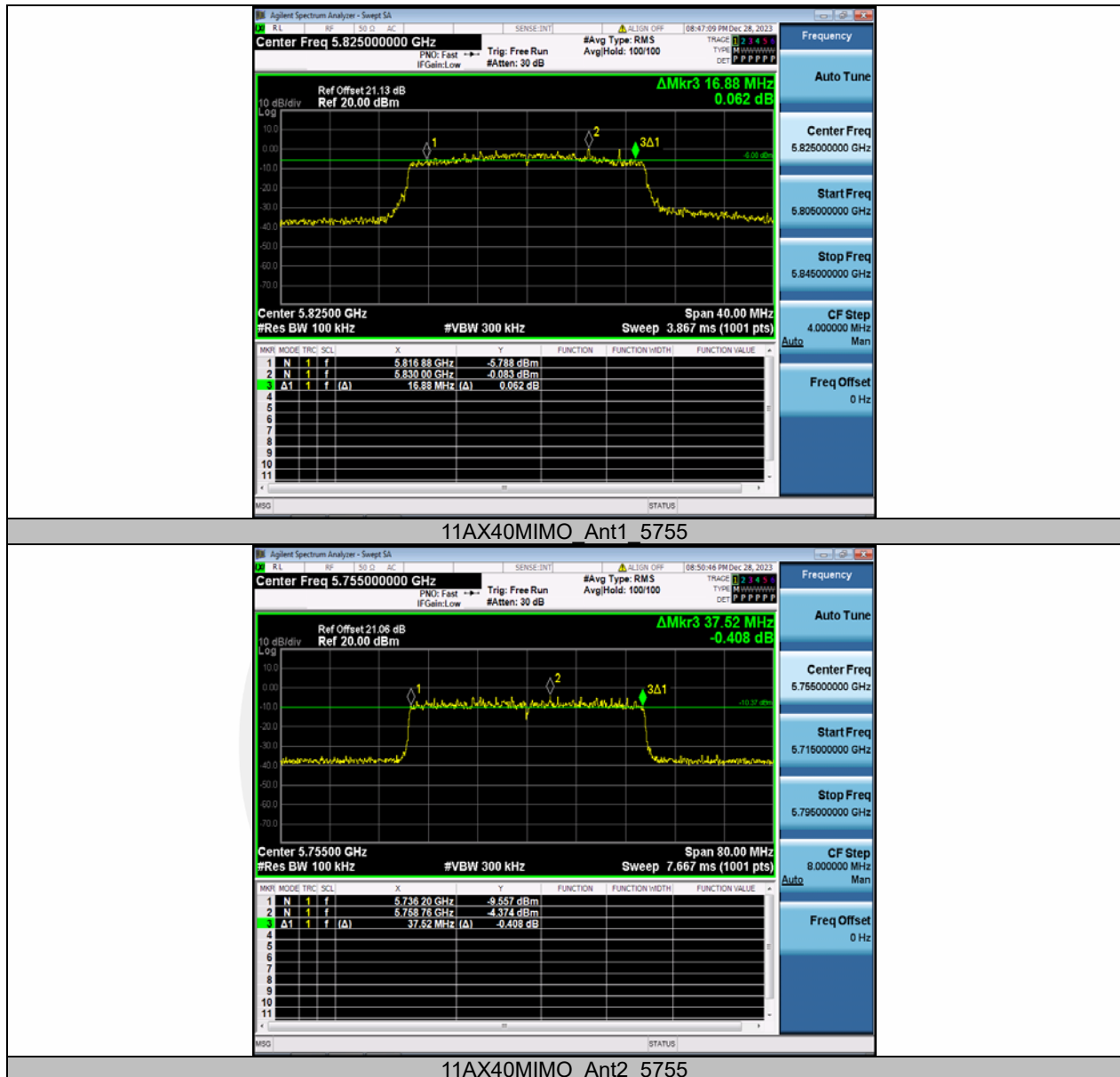
11AX20MIMO_Ant1_5745

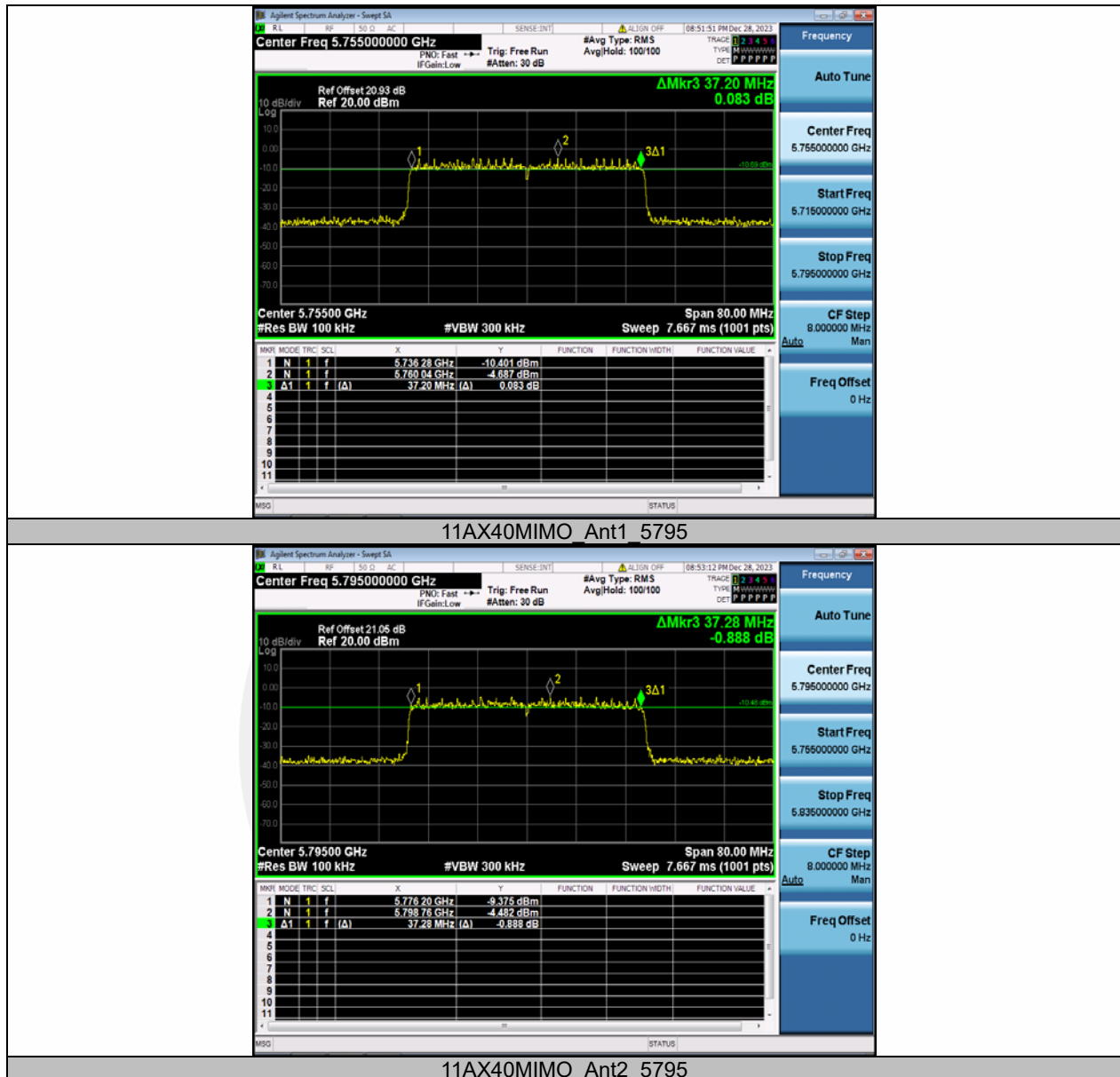


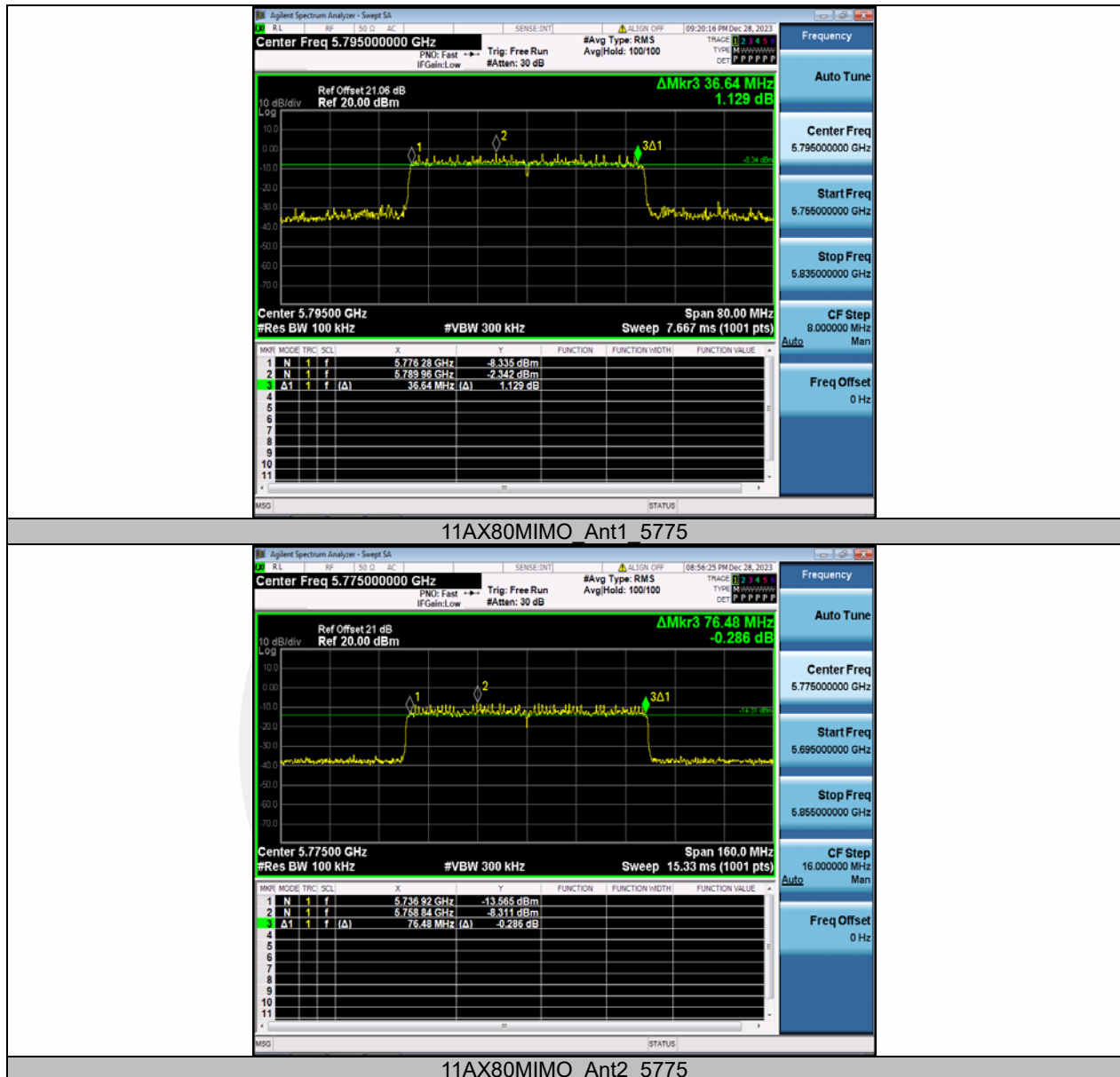
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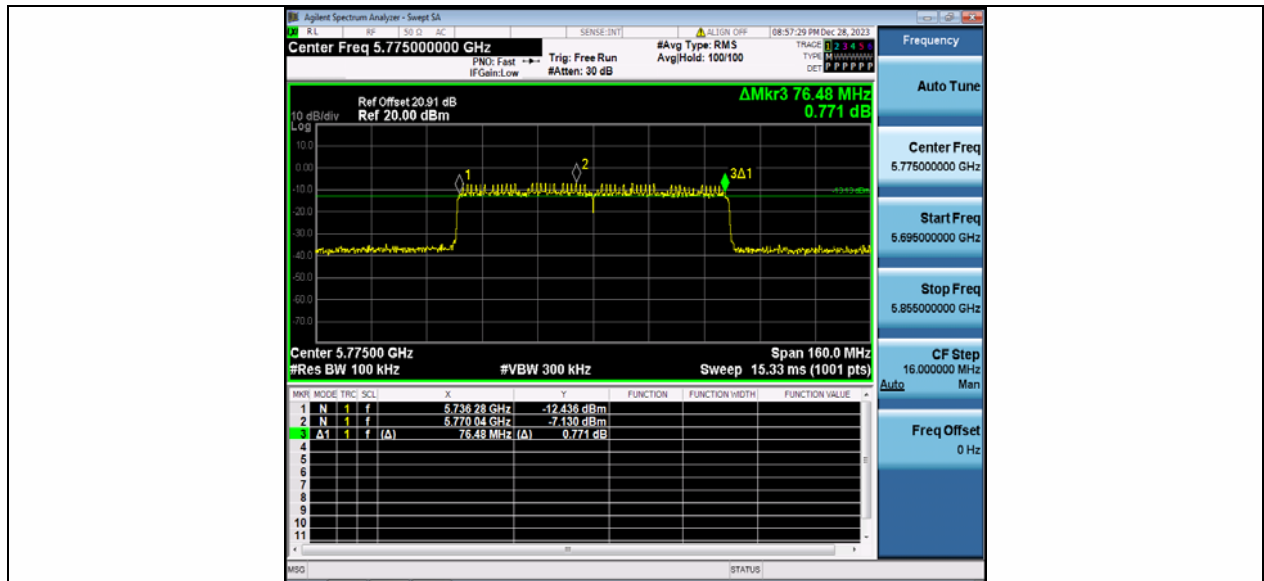












8.2 MAXIMUM CONDUCTED OUTPUT POWER

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)

8.2.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, 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, both the maximum conducted output power and the maximum power spectral density 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 operating in the band 5.15-5.25 GHz, 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, both the maximum conducted output power and the maximum power spectral density 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 operating in the band 5.15-5.25 GHz, 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 or maximum power spectral density. 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 and maximum power spectral density 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 mobile and portable client devices in the 5.15-5.25 GHz band, 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, both the maximum conducted output power and the maximum power spectral density 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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density 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) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1.

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.

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

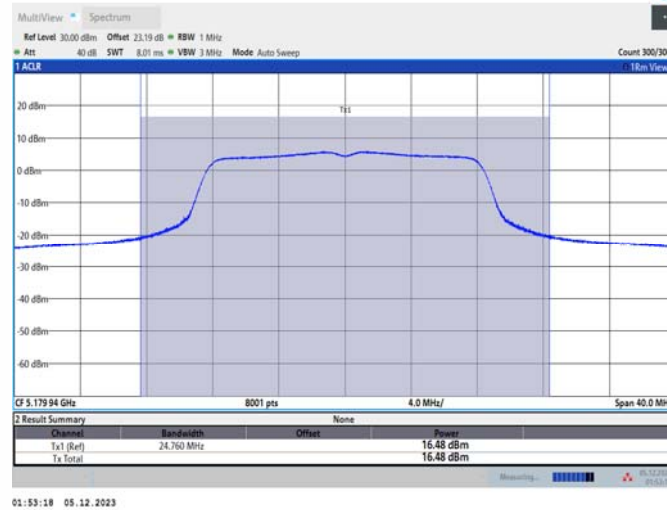
8.2.5 Test Results



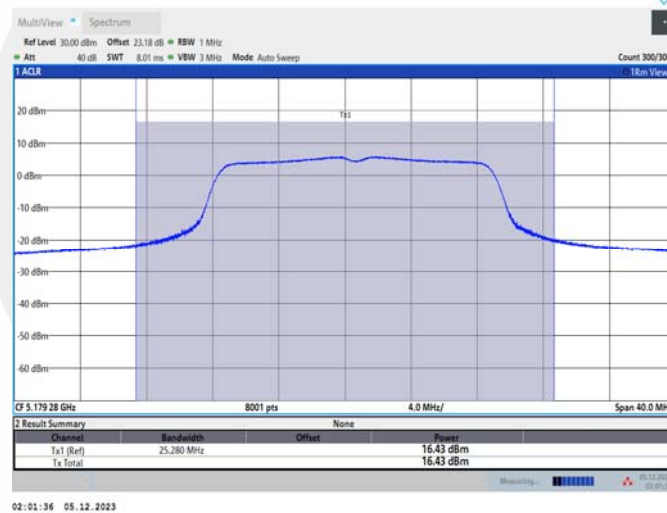
Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	16.48	≤23.98	PASS
	Ant2	5180	16.43	≤23.98	PASS
	Ant1	5200	16.72	≤23.98	PASS
	Ant2	5200	16.57	≤23.98	PASS
	Ant1	5240	16.82	≤23.98	PASS
	Ant2	5240	16.80	≤23.98	PASS
	Ant1	5745	16.13	≤30.00	PASS
	Ant2	5745	15.96	≤30.00	PASS
	Ant1	5785	16.74	≤30.00	PASS
	Ant2	5785	17.05	≤30.00	PASS
	Ant1	5825	16.90	≤30.00	PASS
	Ant2	5825	17.27	≤30.00	PASS
11N20MIMO	Ant1	5180	13.40	≤23.98	PASS
	Ant2	5180	13.39	≤23.98	PASS
	total	5180	16.41	≤23.62	PASS
	Ant1	5200	13.39	≤23.98	PASS
	Ant2	5200	13.50	≤23.98	PASS
	total	5200	16.46	≤23.62	PASS
	Ant1	5240	13.11	≤23.98	PASS
	Ant2	5240	13.38	≤23.98	PASS
	total	5240	16.26	≤23.62	PASS
	Ant1	5745	13.92	≤30.00	PASS
	Ant2	5745	14.08	≤30.00	PASS
	total	5745	17.01	≤29.64	PASS
	Ant1	5785	14.09	≤30.00	PASS
	Ant2	5785	15.22	≤30.00	PASS
	total	5785	17.70	≤29.64	PASS
	Ant1	5825	14.49	≤30.00	PASS
	Ant2	5825	15.21	≤30.00	PASS
	total	5825	17.88	≤29.64	PASS
11N40MIMO	Ant1	5190	14.79	≤23.98	PASS
	Ant2	5190	14.67	≤23.98	PASS
	total	5190	17.74	≤23.62	PASS
	Ant1	5230	14.57	≤23.98	PASS
	Ant2	5230	15.10	≤23.98	PASS
	total	5230	17.85	≤23.62	PASS
	Ant1	5755	14.43	≤30.00	PASS
	Ant2	5755	15.29	≤30.00	PASS
	total	5755	17.89	≤29.64	PASS
	Ant1	5795	15.14	≤30.00	PASS
	Ant2	5795	15.07	≤30.00	PASS
	total	5795	18.12	≤29.64	PASS
11AC20MIMO	Ant1	5180	13.37	≤23.98	PASS
	Ant2	5180	13.43	≤23.98	PASS
	total	5180	16.41	≤23.62	PASS
	Ant1	5200	13.47	≤23.98	PASS
	Ant2	5200	13.56	≤23.98	PASS
	total	5200	16.53	≤23.62	PASS
	Ant1	5240	13.42	≤23.98	PASS
	Ant2	5240	13.68	≤23.98	PASS
	total	5240	16.56	≤23.98	PASS
	Ant1	5745	14.02	≤30.00	PASS
	Ant2	5745	14.21	≤30.00	PASS
	total	5745	17.13	≤29.64	PASS
	Ant1	5785	15.94	≤30.00	PASS
	Ant2	5785	17.02	≤30.00	PASS

	total	5785	19.52	≤29.64	PASS
	Ant1	5825	14.64	≤30.00	PASS
	Ant2	5825	15.35	≤30.00	PASS
	total	5825	18.02	≤29.64	PASS
11AC40MIMO	Ant1	5190	14.80	≤23.98	PASS
	Ant2	5190	14.79	≤23.98	PASS
	total	5190	17.81	≤23.62	PASS
	Ant1	5230	14.82	≤23.98	PASS
	Ant2	5230	15.26	≤23.98	PASS
	total	5230	18.06	≤23.62	PASS
	Ant1	5755	14.21	≤30.00	PASS
	Ant2	5755	14.85	≤30.00	PASS
	total	5755	17.55	≤29.64	PASS
	Ant1	5795	15.00	≤30.00	PASS
	Ant2	5795	15.63	≤30.00	PASS
	total	5795	18.34	≤29.64	PASS
11AC80MIMO	Ant1	5210	14.86	≤23.98	PASS
	Ant2	5210	14.52	≤23.98	PASS
	total	5210	17.70	≤23.62	PASS
	Ant1	5775	14.71	≤30.00	PASS
	Ant2	5775	15.32	≤30.00	PASS
	total	5775	18.04	≤29.64	PASS
11AX20MIMO	Ant1	5180	11.91	≤23.98	PASS
	Ant2	5180	11.42	≤23.98	PASS
	total	5180	14.68	≤23.62	PASS
	Ant1	5200	11.15	≤23.98	PASS
	Ant2	5200	11.56	≤23.98	PASS
	total	5200	14.37	≤23.62	PASS
	Ant1	5240	11.76	≤23.98	PASS
	Ant2	5240	11.49	≤23.98	PASS
	total	5240	14.64	≤23.62	PASS
	Ant1	5745	11.52	≤30.00	PASS
	Ant2	5745	11.44	≤30.00	PASS
	total	5745	14.49	≤30.00	PASS
	Ant1	5785	11.60	≤29.64	PASS
	Ant2	5785	11.94	≤30.00	PASS
	total	5785	14.78	≤29.64	PASS
	Ant1	5825	11.78	≤30.00	PASS
	Ant2	5825	11.27	≤30.00	PASS
	total	5825	14.54	≤29.64	PASS
11AX40MIMO	Ant1	5190	11.54	≤23.98	PASS
	Ant2	5190	11.62	≤23.98	PASS
	total	5190	14.59	≤23.62	PASS
	Ant1	5230	11.38	≤23.98	PASS
	Ant2	5230	11.92	≤23.98	PASS
	total	5230	14.67	≤23.62	PASS
	Ant1	5755	11.49	≤30.00	PASS
	Ant2	5755	11.49	≤30.00	PASS
	total	5755	14.50	≤29.64	PASS
	Ant1	5795	11.51	≤30.00	PASS
11AX80MIMO	Ant2	5795	11.79	≤30.00	PASS
	total	5795	14.66	≤29.64	PASS
	Ant1	5210	11.46	≤23.98	PASS
	Ant2	5210	11.53	≤23.98	PASS
	total	5210	14.51	≤23.62	PASS
	Ant1	5775	11.94	≤30.00	PASS
	Ant2	5775	11.67	≤30.00	PASS
	total	5775	14.82	≤29.64	PASS

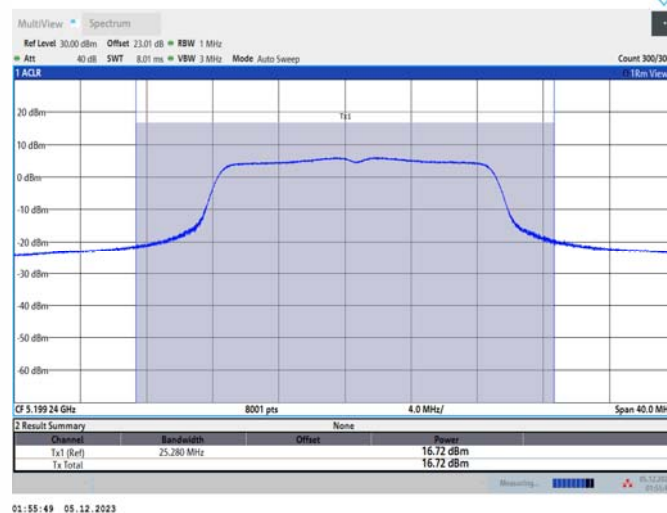
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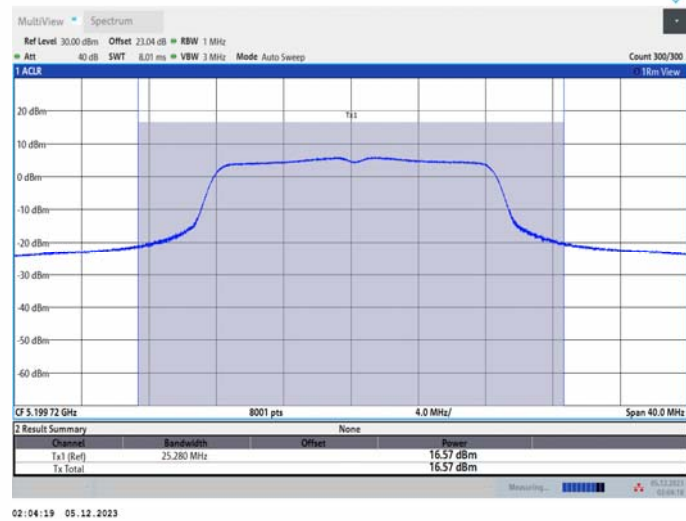
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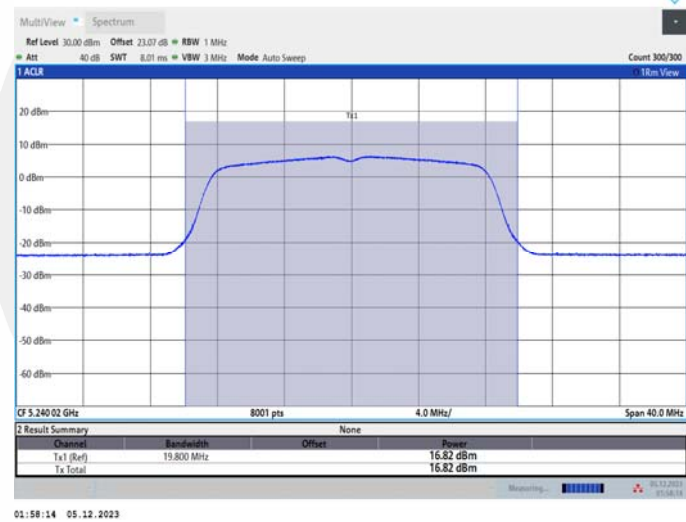
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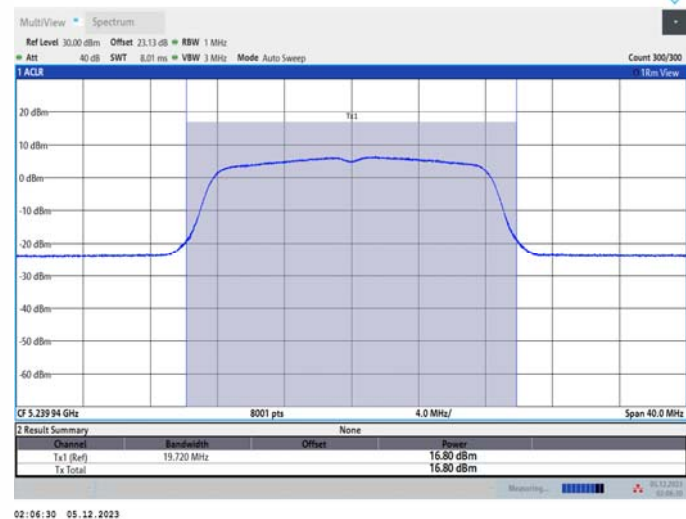
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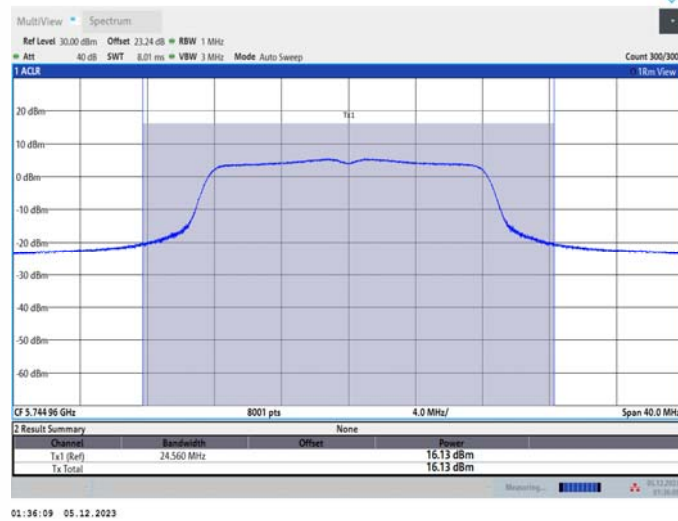
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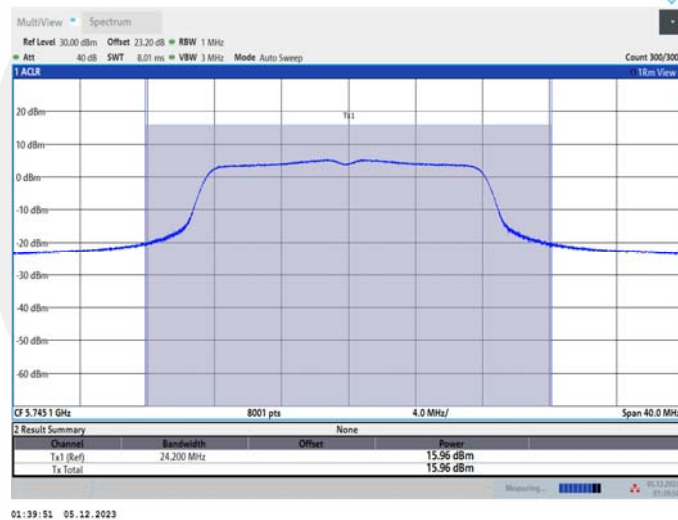
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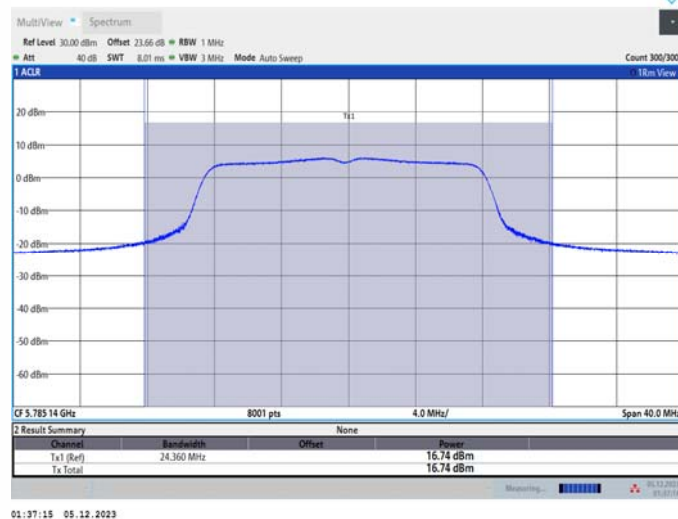
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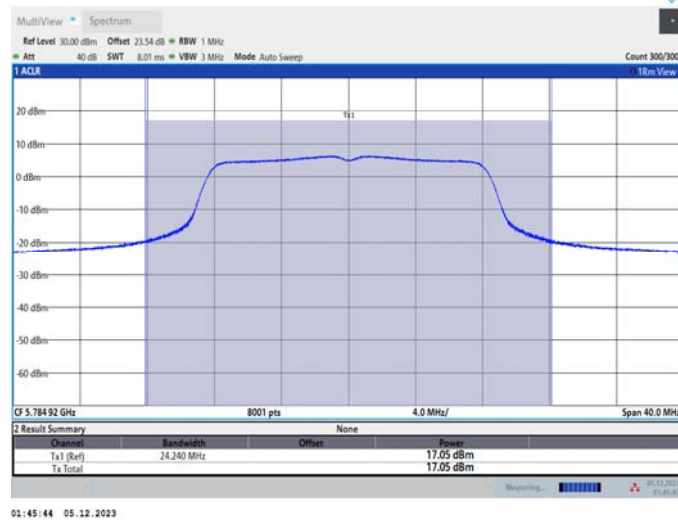
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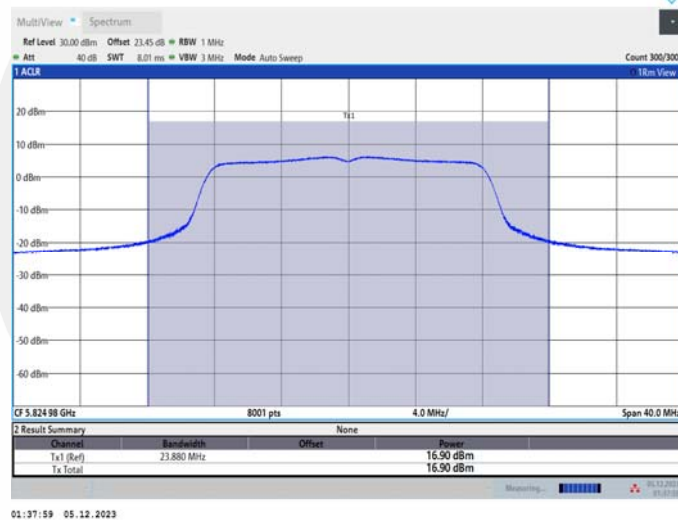
11A_Ant1_5785



11A_Ant2_5785



11A_Ant1_5825



11A_Ant2_5825

