

8.3.4 Test Procedure

Methods refer to FCC KDB 789033.

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections.

5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

8.3.5 Test Results

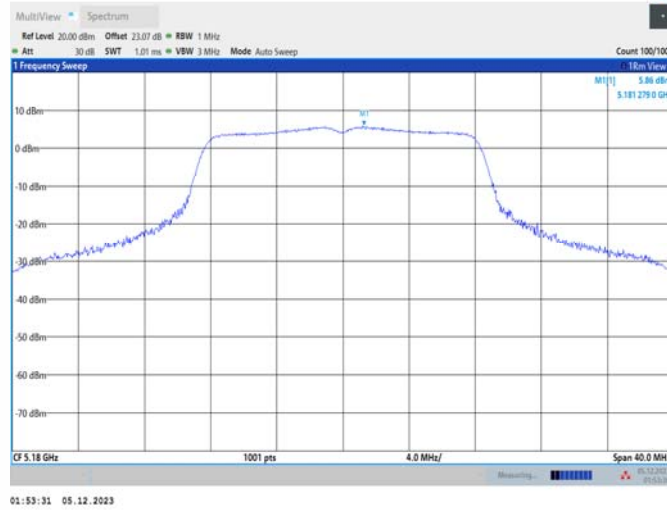
TestMode	Antenna	Frequency[MHz]	Result		Verdict
			UNII-1: dBm/MHz	UNII-3: dBm/500kHz	
			Limit		
			UNII-1: dBm/MHz	UNII-3: dBm/500kHz	
11A	Ant1	5180	5.98	≤11.00	PASS
	Ant2	5180	5.71	≤11.00	PASS
	Ant1	5200	6.12	≤11.00	PASS
	Ant2	5200	5.99	≤11.00	PASS
	Ant1	5240	6.38	≤11.00	PASS
	Ant2	5240	6.49	≤11.00	PASS
	Ant1	5745	2.89	≤30.00	PASS
	Ant2	5745	2.44	≤30.00	PASS
	Ant1	5785	3.32	≤30.00	PASS
	Ant2	5785	3.79	≤30.00	PASS
	Ant1	5825	3.47	≤30.00	PASS
	Ant2	5825	3.79	≤30.00	PASS
11N20MIMO	Ant1	5180	2.61	≤11.00	PASS
	Ant2	5180	2.91	≤11.00	PASS
	total	5180	5.77	≤11.00	PASS
	Ant1	5200	2.47	≤11.00	PASS
	Ant2	5200	2.76	≤11.00	PASS
	total	5200	5.63	≤11.00	PASS
	Ant1	5240	2.35	≤11.00	PASS
	Ant2	5240	2.72	≤11.00	PASS
	total	5240	5.55	≤11.00	PASS
	Ant1	5745	0.45	≤30.00	PASS
	Ant2	5745	0.41	≤30.00	PASS
	total	5745	3.44	≤30.00	PASS
	Ant1	5785	0.34	≤30.00	PASS
	Ant2	5785	1.57	≤30.00	PASS
	total	5785	4.01	≤30.00	PASS
	Ant1	5825	1.06	≤30.00	PASS
	Ant2	5825	1.84	≤30.00	PASS
	total	5825	4.48	≤30.00	PASS
11N40MIMO	Ant1	5190	1.72	≤11.00	PASS
	Ant2	5190	1.91	≤11.00	PASS
	total	5190	4.83	≤11.00	PASS
	Ant1	5230	1.50	≤11.00	PASS
	Ant2	5230	2.02	≤11.00	PASS
	total	5230	4.78	≤11.00	PASS
	Ant1	5755	-1.38	≤30.00	PASS
	Ant2	5755	-0.51	≤30.00	PASS
	total	5755	2.09	≤30.00	PASS
	Ant1	5795	-0.65	≤30.00	PASS
	Ant2	5795	-0.69	≤30.00	PASS
	total	5795	2.34	≤30.00	PASS
11AC20MIMO	Ant1	5180	2.75	≤11.00	PASS
	Ant2	5180	2.62	≤11.00	PASS
	total	5180	5.70	≤11.00	PASS
	Ant1	5200	2.60	≤11.00	PASS
	Ant2	5200	2.68	≤11.00	PASS
	total	5200	5.65	≤11.00	PASS

	Ant1	5240	2.80	≤11.00	PASS
	Ant2	5240	3.16	≤11.00	PASS
	total	5240	5.99	≤11.00	PASS
	Ant1	5745	0.44	≤30.00	PASS
	Ant2	5745	0.56	≤30.00	PASS
	total	5745	3.51	≤30.00	PASS
	Ant1	5785	2.20	≤30.00	PASS
	Ant2	5785	3.50	≤30.00	PASS
	total	5785	5.91	≤30.00	PASS
	Ant1	5825	1.04	≤30.00	PASS
	Ant2	5825	1.87	≤30.00	PASS
	total	5825	4.49	≤30.00	PASS
11AC40MIMO	Ant1	5190	1.76	≤11.00	PASS
	Ant2	5190	1.81	≤11.00	PASS
	total	5190	4.80	≤11.00	PASS
	Ant1	5230	1.59	≤11.00	PASS
	Ant2	5230	2.31	≤11.00	PASS
	total	5230	4.98	≤11.00	PASS
	Ant1	5755	-1.68	≤30.00	PASS
	Ant2	5755	-1.11	≤30.00	PASS
	total	5755	1.62	≤30.00	PASS
	Ant1	5795	-0.80	≤30.00	PASS
	Ant2	5795	-0.25	≤30.00	PASS
	total	5795	2.49	≤30.00	PASS
11AC80MIMO	Ant1	5210	-1.61	≤11.00	PASS
	Ant2	5210	-1.84	≤11.00	PASS
	total	5210	1.29	≤11.00	PASS
	Ant1	5775	-4.42	≤30.00	PASS
	Ant2	5775	-4.05	≤30.00	PASS
total	5775	-1.22	≤30.00	PASS	
11AX20MIMO	Ant1	5180	2.47	≤11.00	PASS
	Ant2	5180	1.42	≤11.00	PASS
	total	5180	4.99	≤11.00	PASS
	Ant1	5200	0.84	≤11.00	PASS
	Ant2	5200	1.39	≤11.00	PASS
	total	5200	4.13	≤11.00	PASS
	Ant1	5240	1.12	≤11.00	PASS
	Ant2	5240	1.62	≤11.00	PASS
	total	5240	4.39	≤11.00	PASS
	Ant1	5745	-1.83	≤30.00	PASS
	Ant2	5745	-1.37	≤30.00	PASS
	total	5745	1.42	≤30.00	PASS
	Ant1	5785	-1.27	≤30.00	PASS
	Ant2	5785	-0.82	≤30.00	PASS
	total	5785	1.97	≤30.00	PASS
11AX40MIMO	Ant1	5825	-0.66	≤30.00	PASS
	Ant2	5825	-1.11	≤30.00	PASS
	total	5825	2.13	≤30.00	PASS
	Ant1	5190	-2.99	≤11.00	PASS
	Ant2	5190	-2.73	≤11.00	PASS
	total	5190	0.15	≤11.00	PASS
	Ant1	5230	-3.09	≤11.00	PASS
	Ant2	5230	-2.28	≤11.00	PASS
	total	5230	0.34	≤11.00	PASS
Ant1	5755	-6.15	≤30.00	PASS	
Ant2	5755	-5.84	≤30.00	PASS	
total	5755	-2.98	≤30.00	PASS	

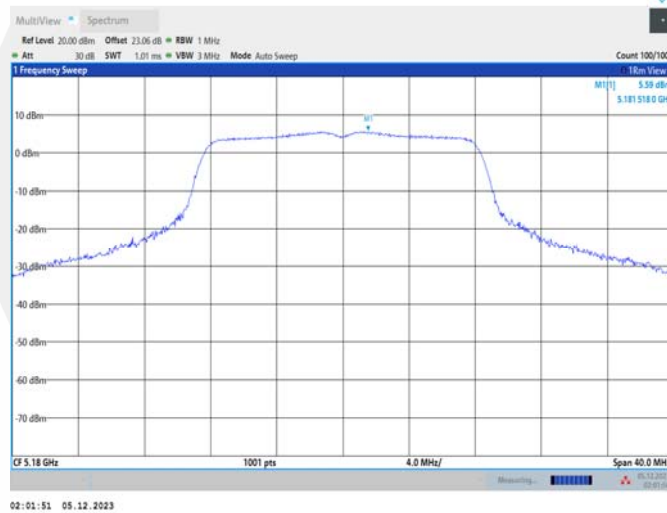
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	Ant2	5795	-5.48	≤30.00	PASS
	total	5795	-2.42	≤30.00	PASS
11AX80MIMO	Ant1	5210	-5.68	≤11.00	PASS
	Ant2	5210	-5.86	≤11.00	PASS
	total	5210	-2.76	≤11.00	PASS
	Ant1	5775	-8.19	≤30.00	PASS
	Ant2	5775	-8.27	≤30.00	PASS
	total	5775	-5.22	≤30.00	PASS



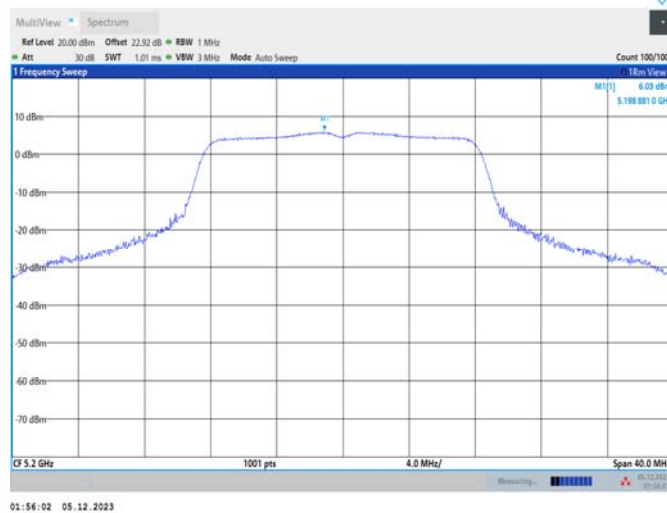
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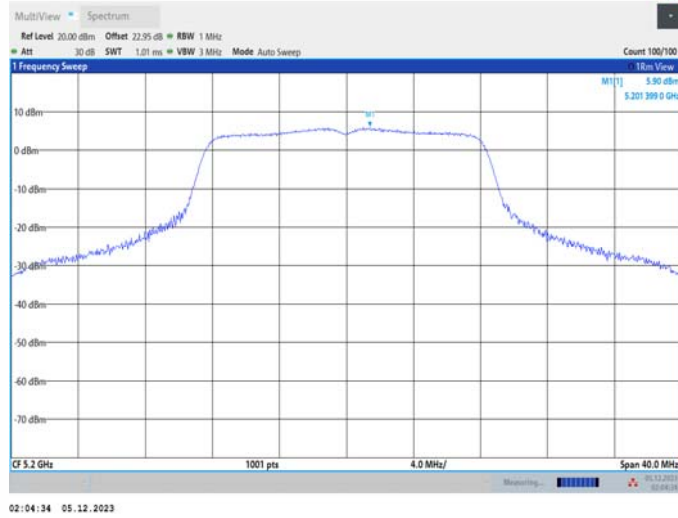
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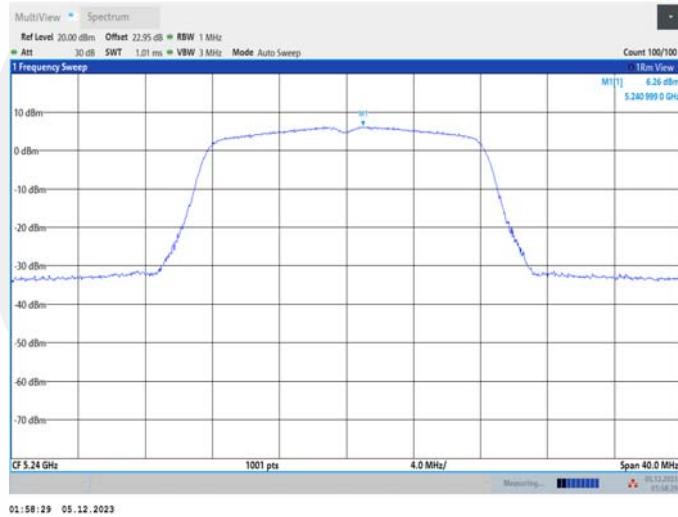
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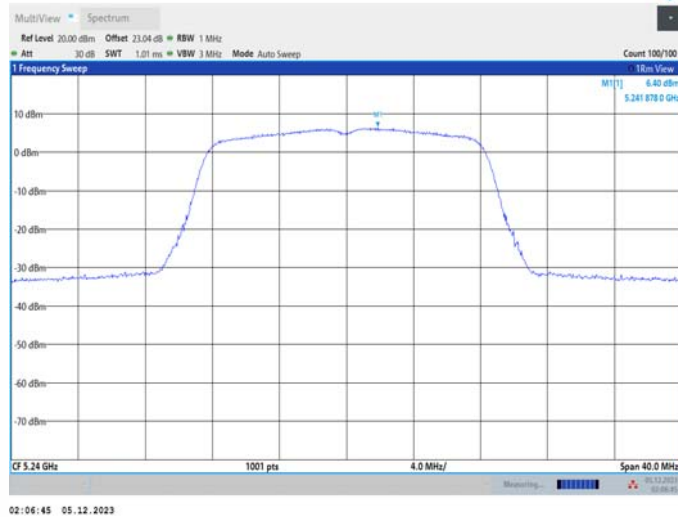
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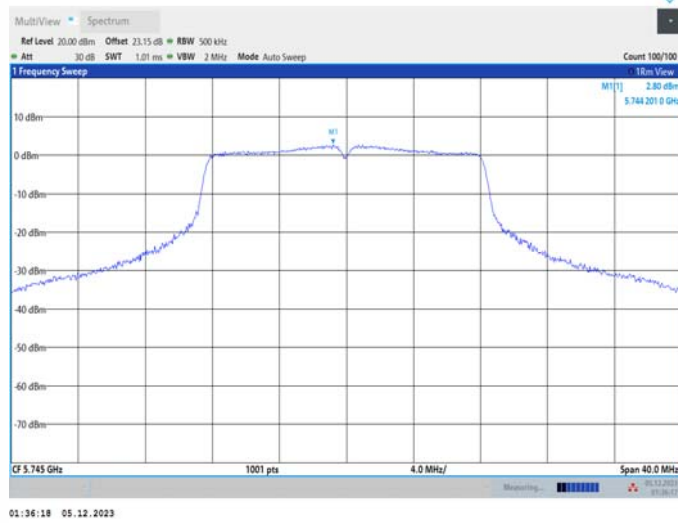
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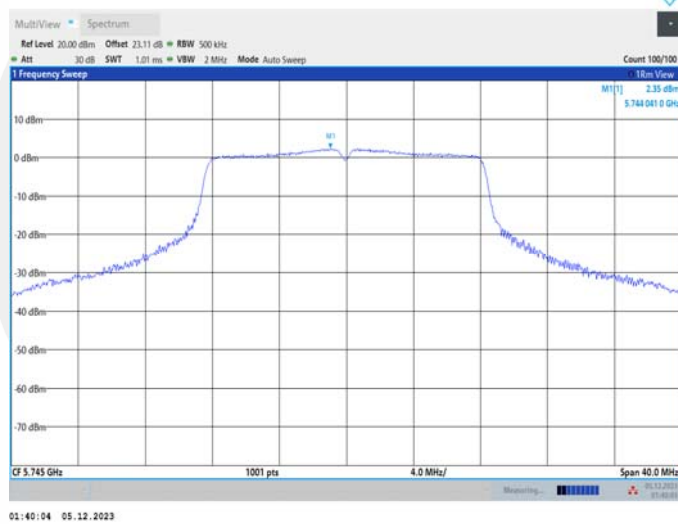
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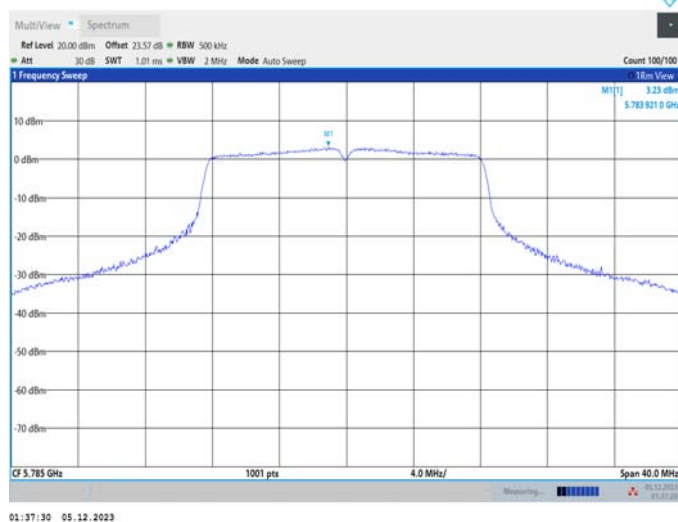
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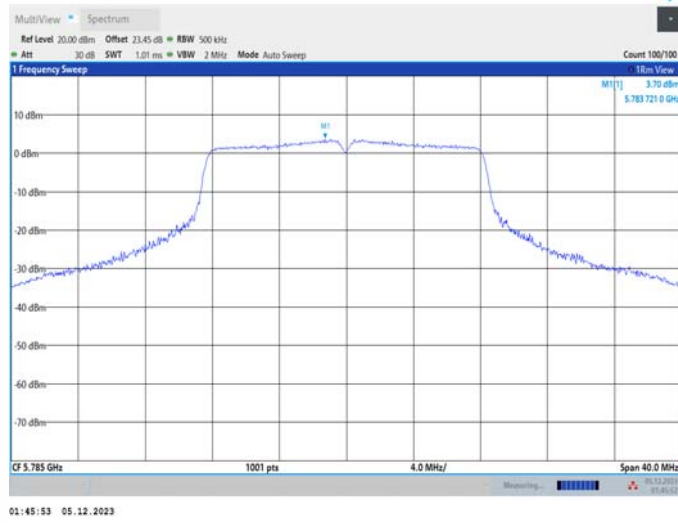
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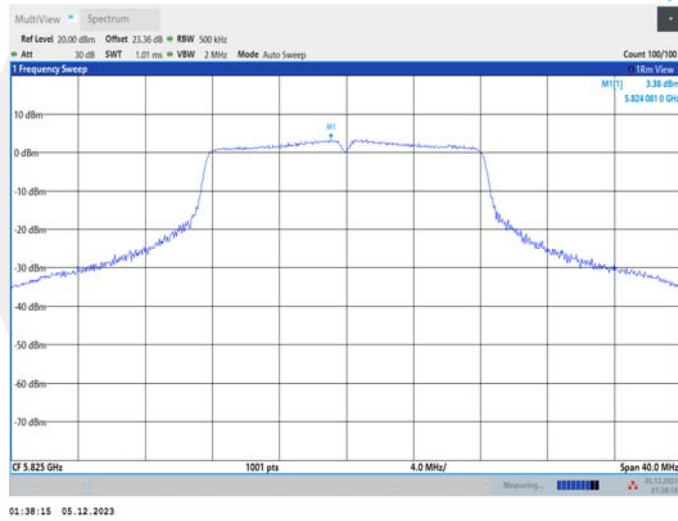
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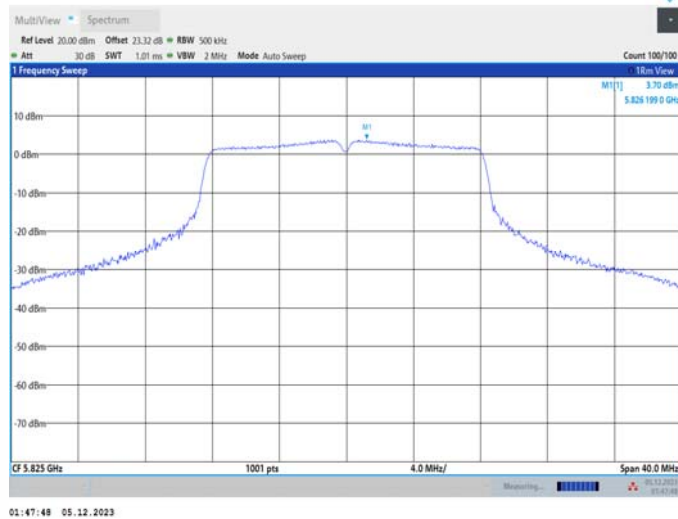
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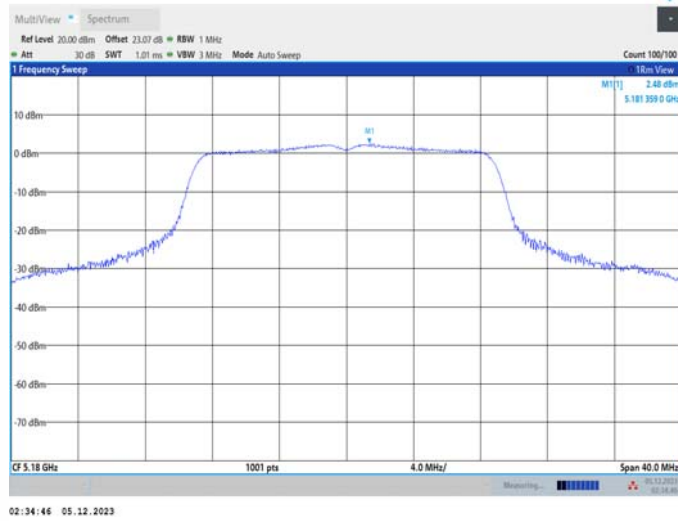
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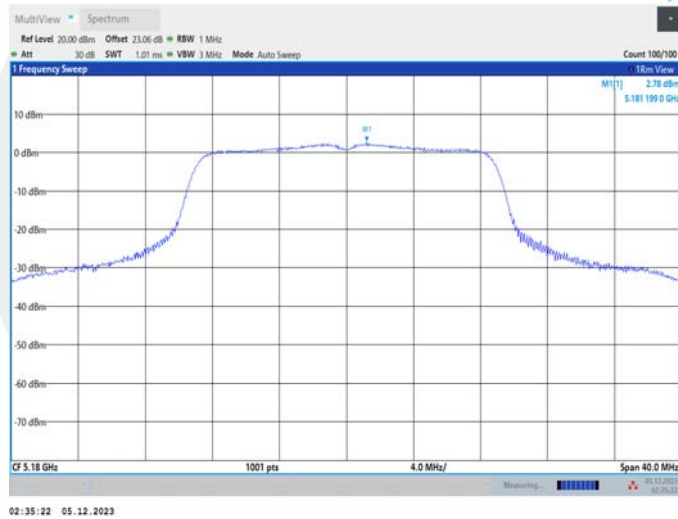
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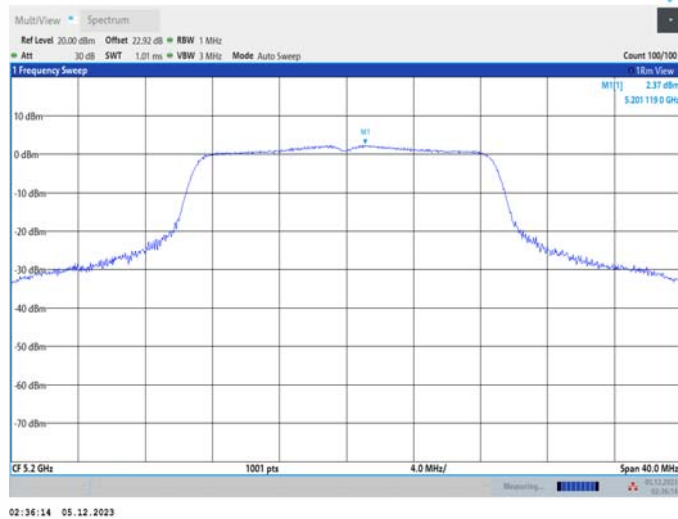
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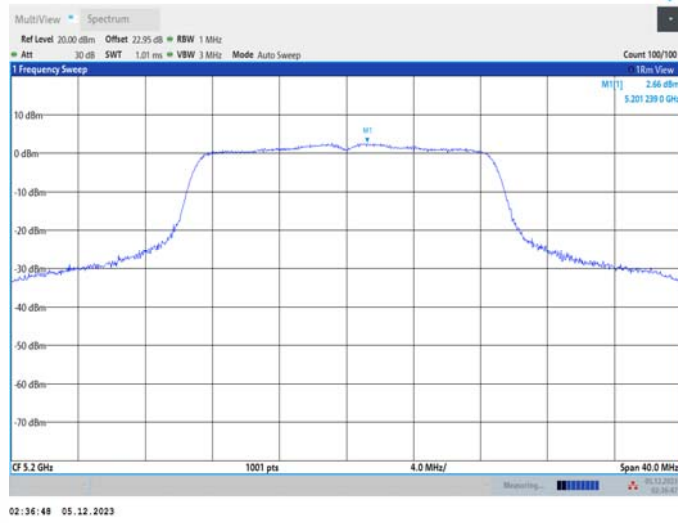
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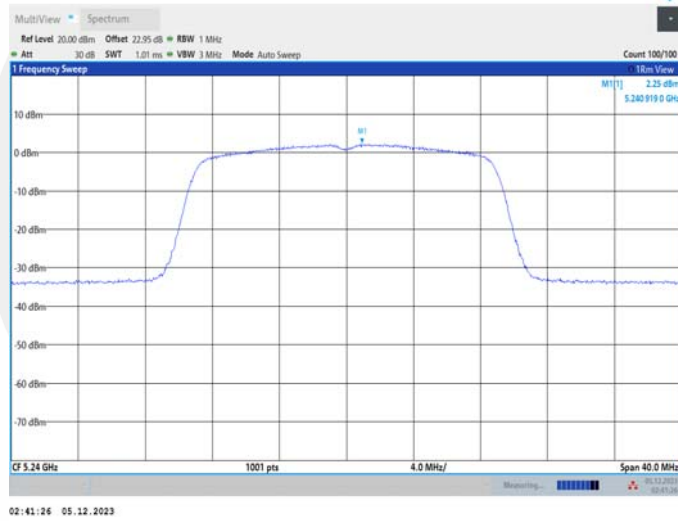
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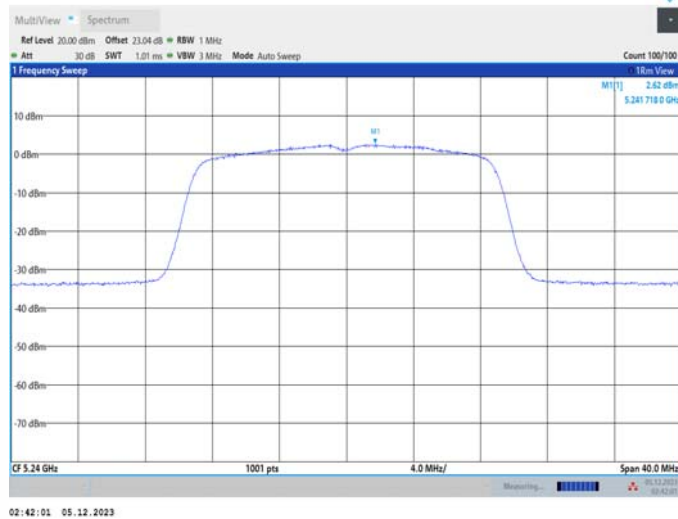
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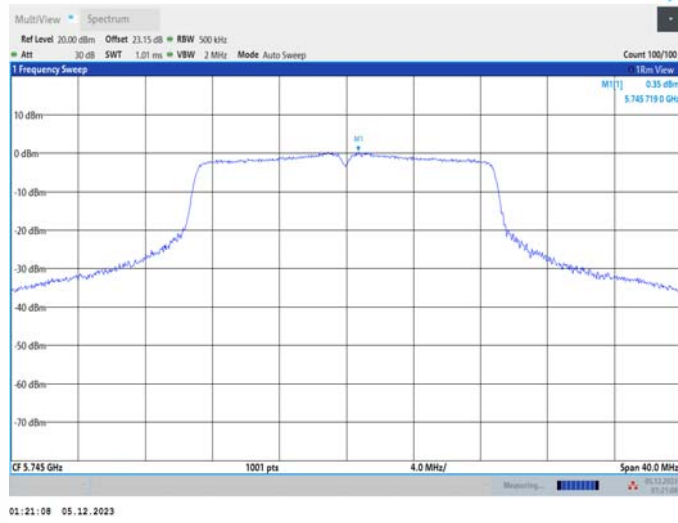
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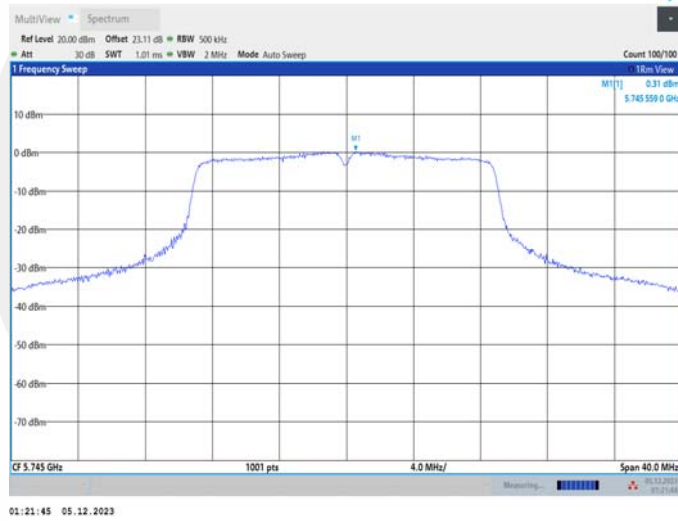
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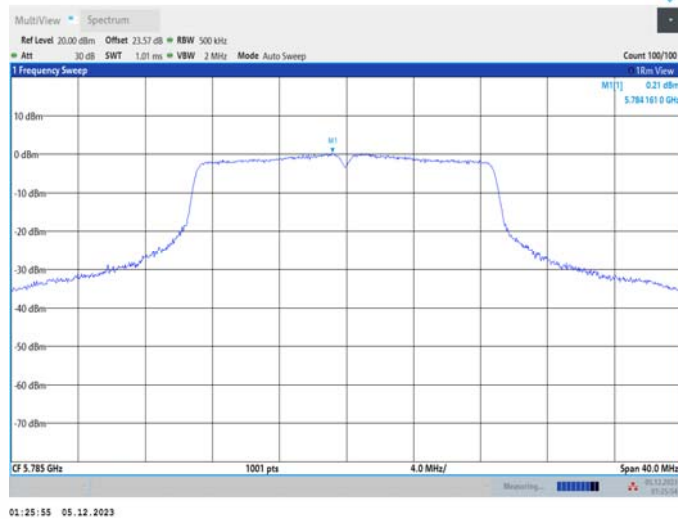
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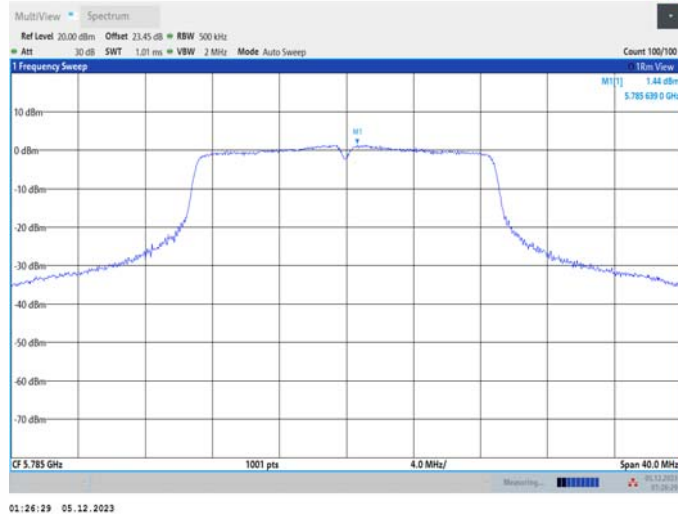
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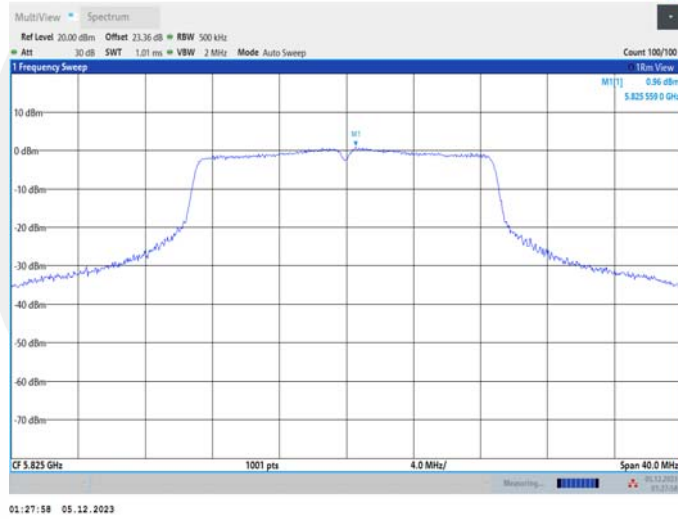
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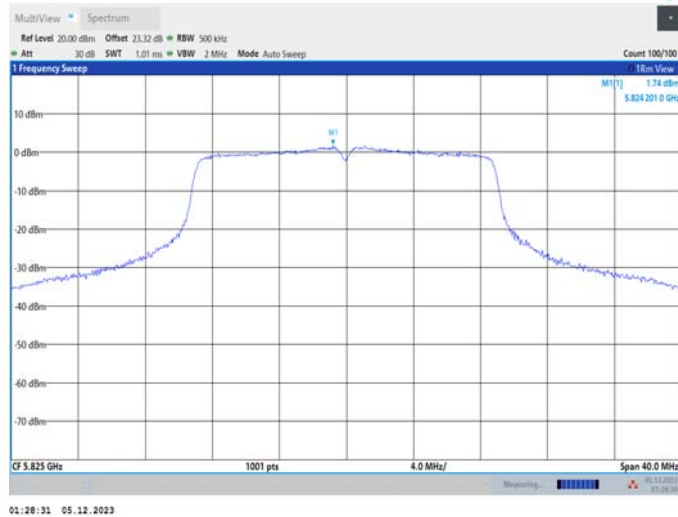
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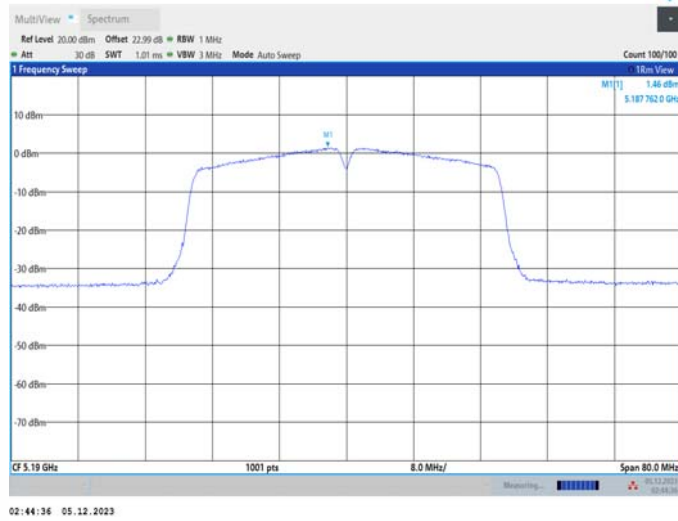
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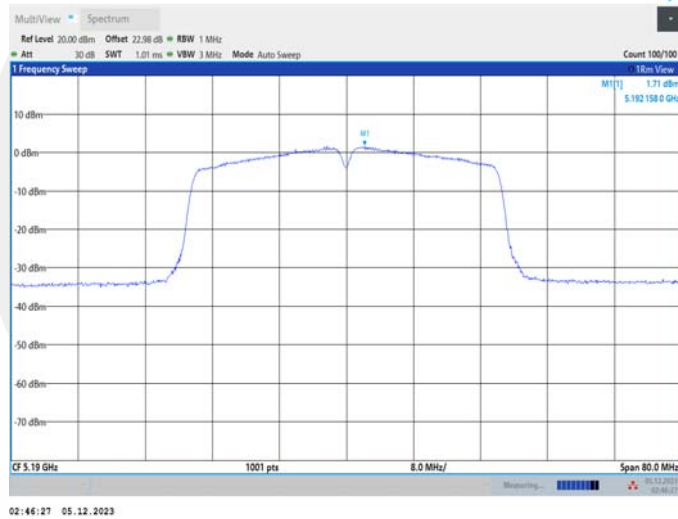
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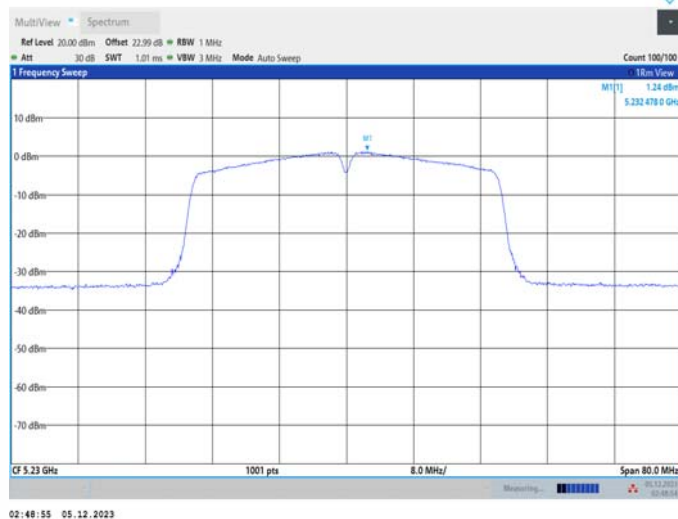
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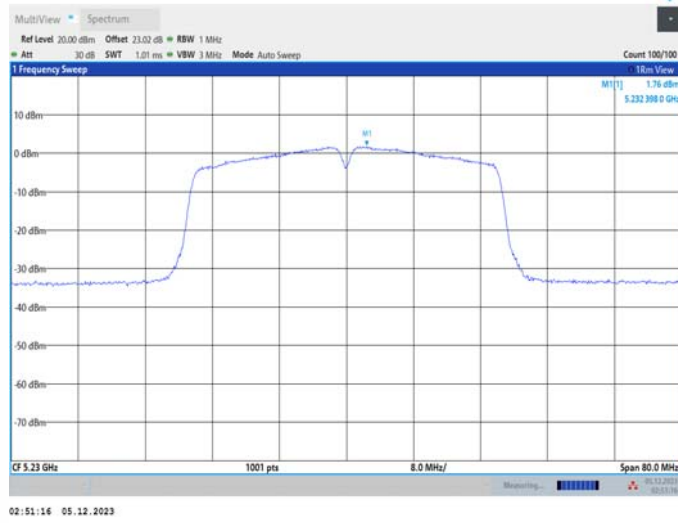
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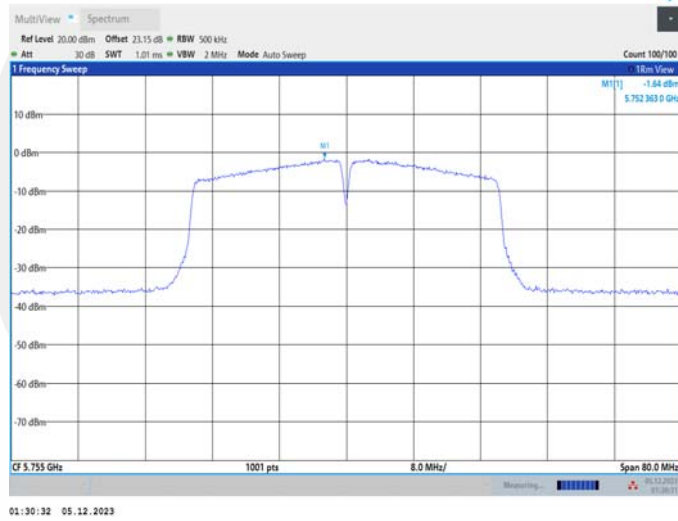
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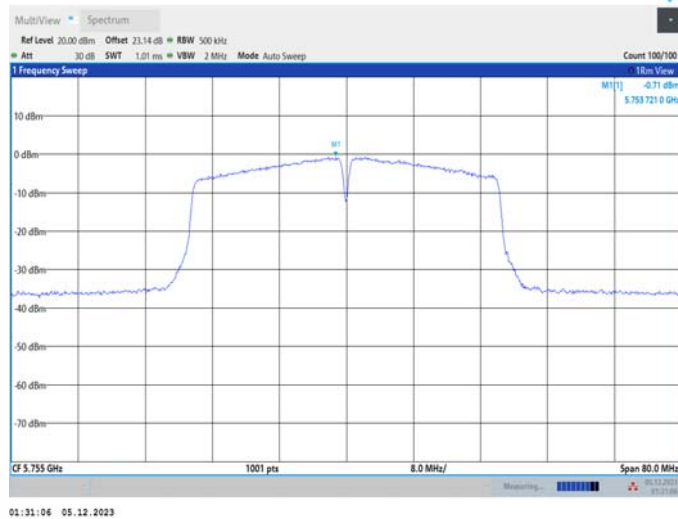
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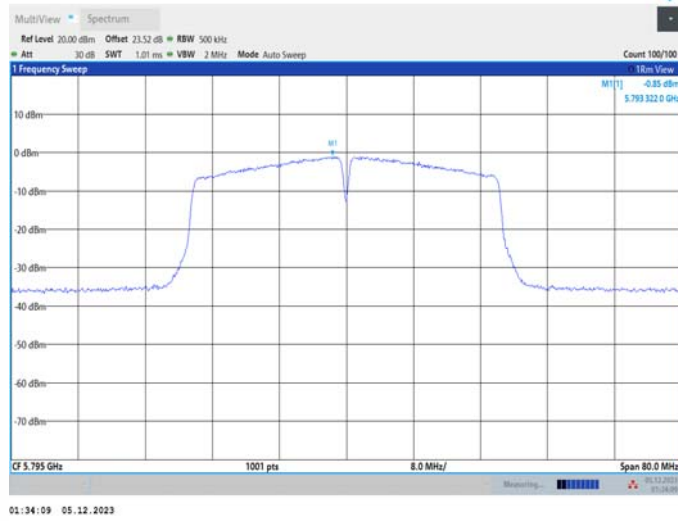
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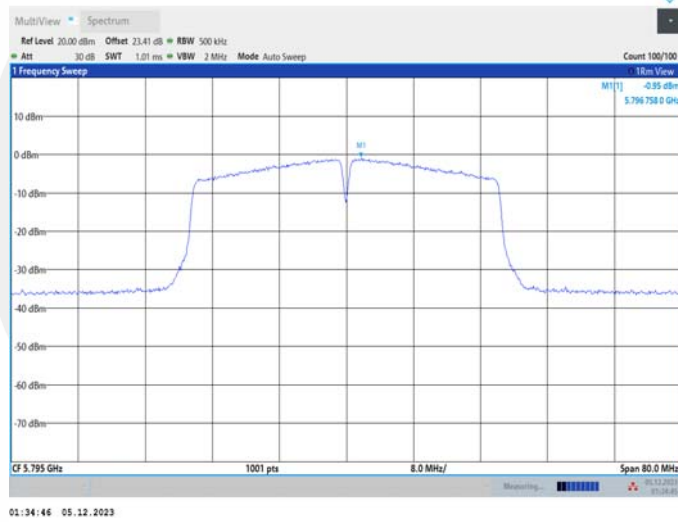
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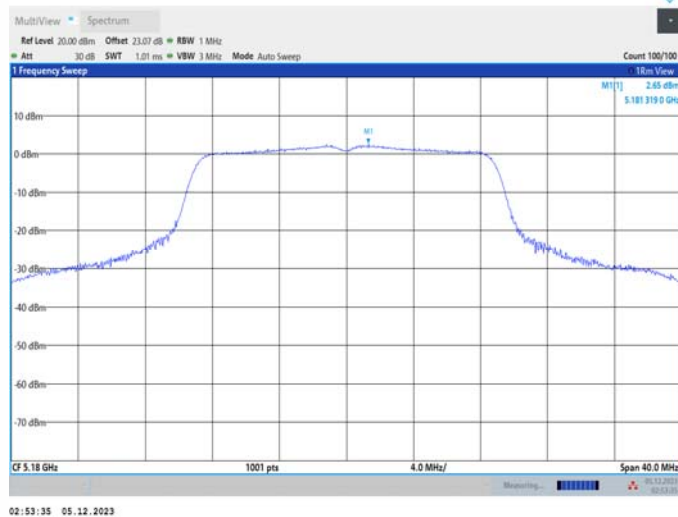
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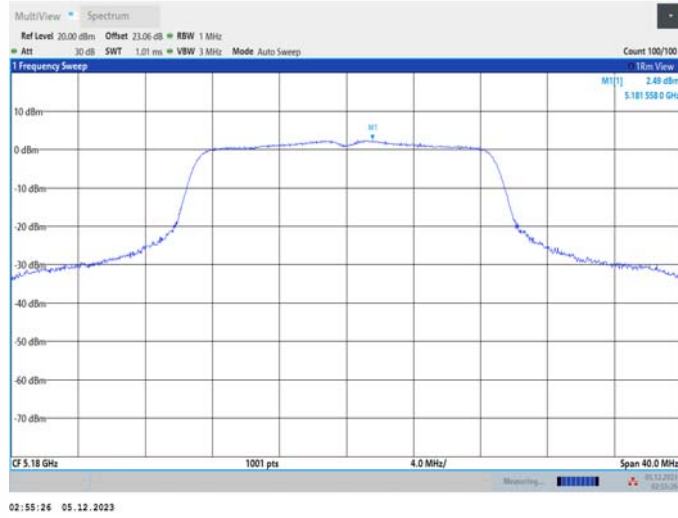
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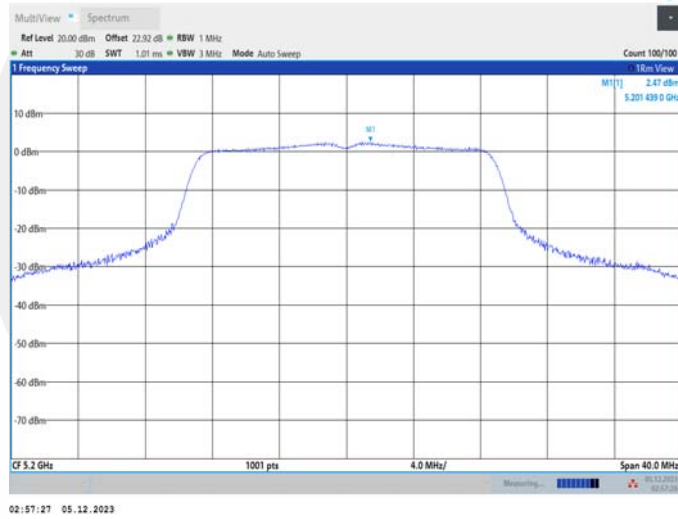
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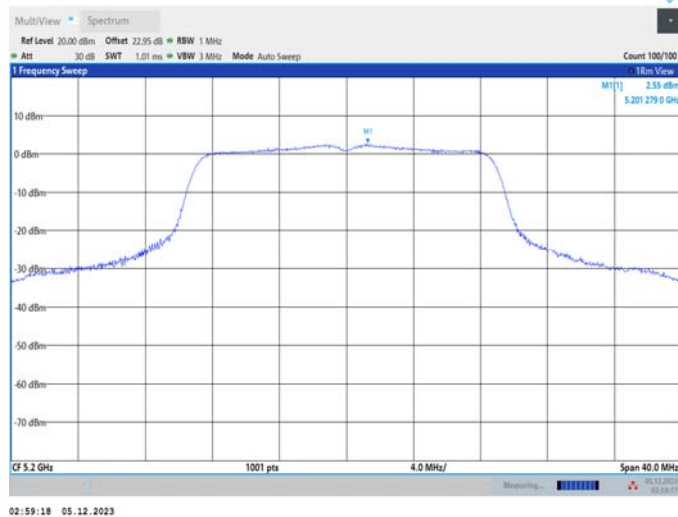
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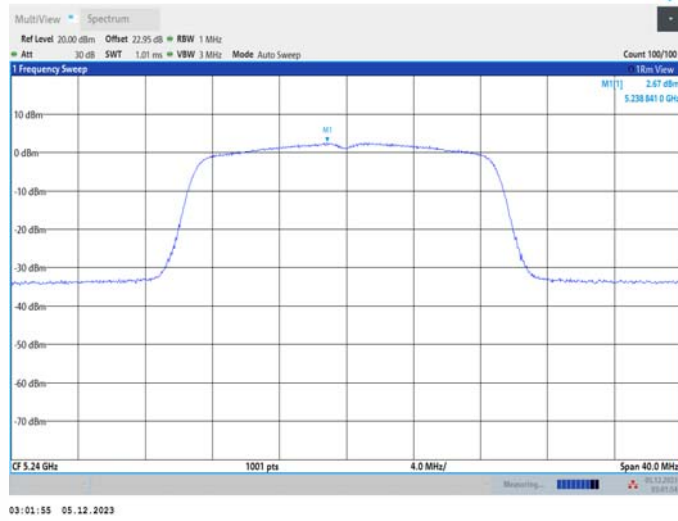
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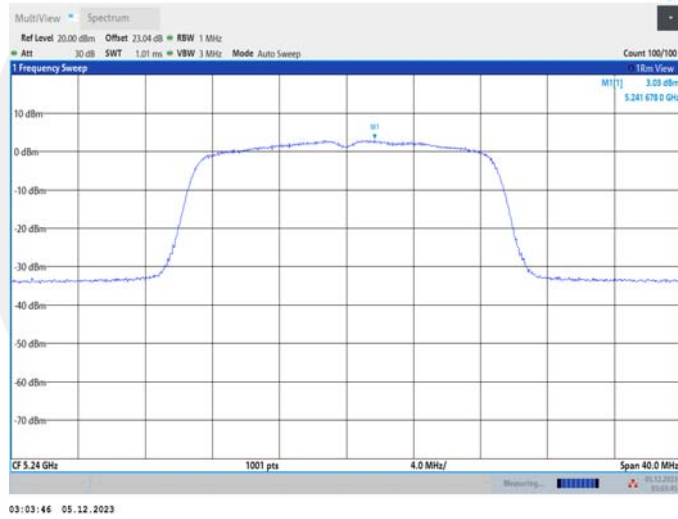
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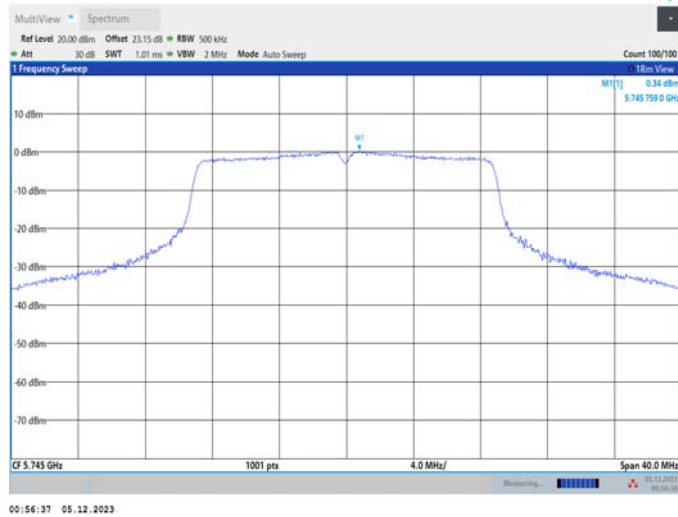
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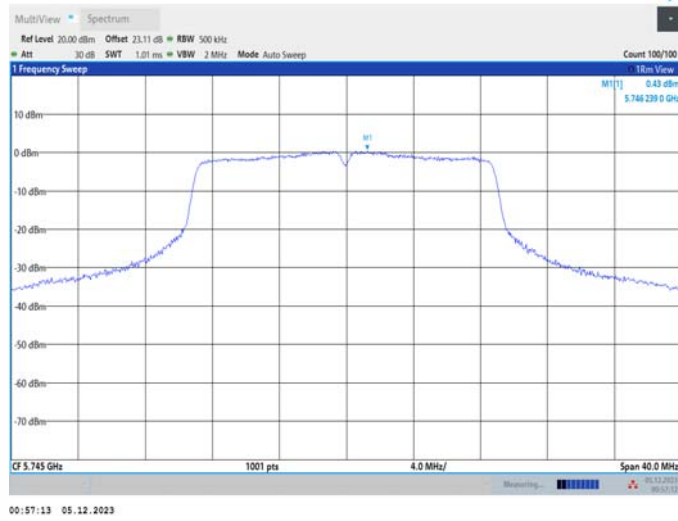
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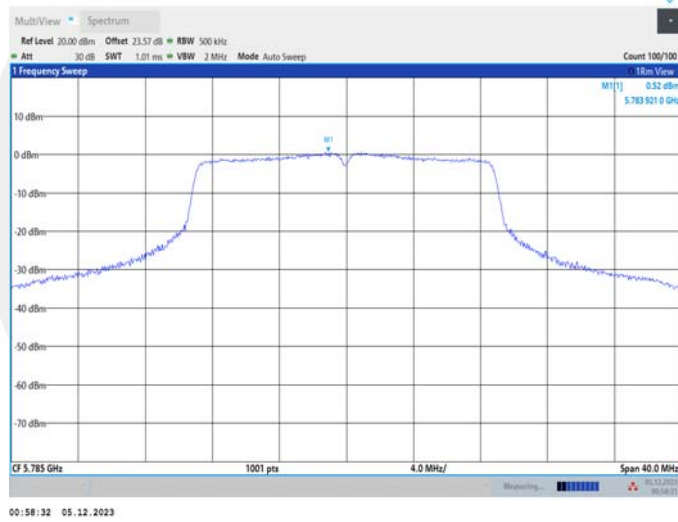
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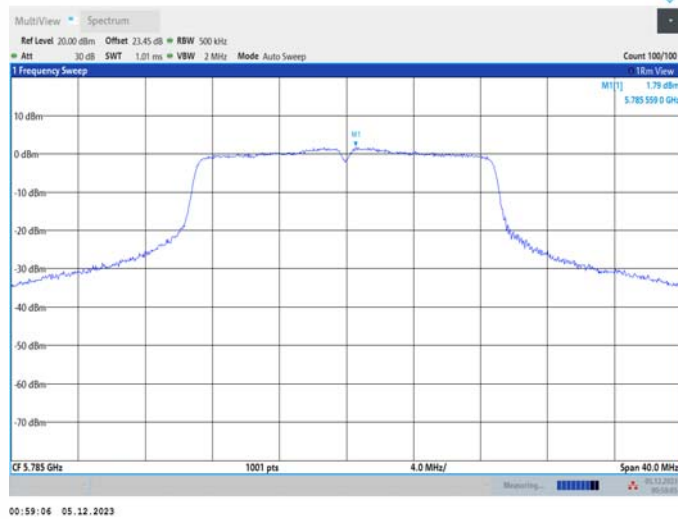
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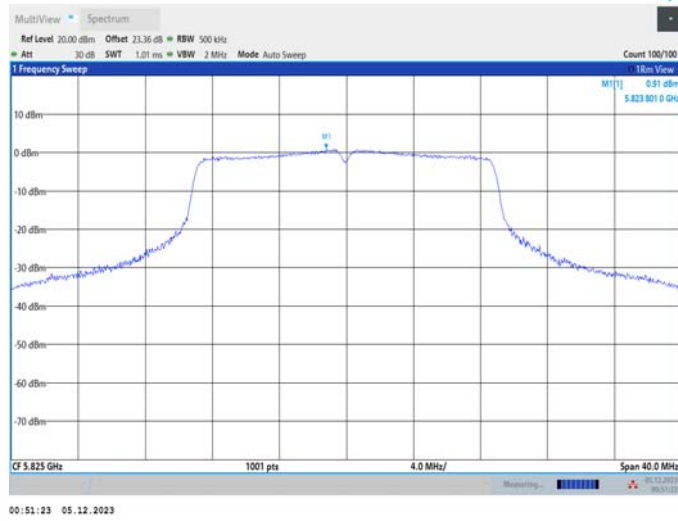
11AC20MIMO_Ant1_5785



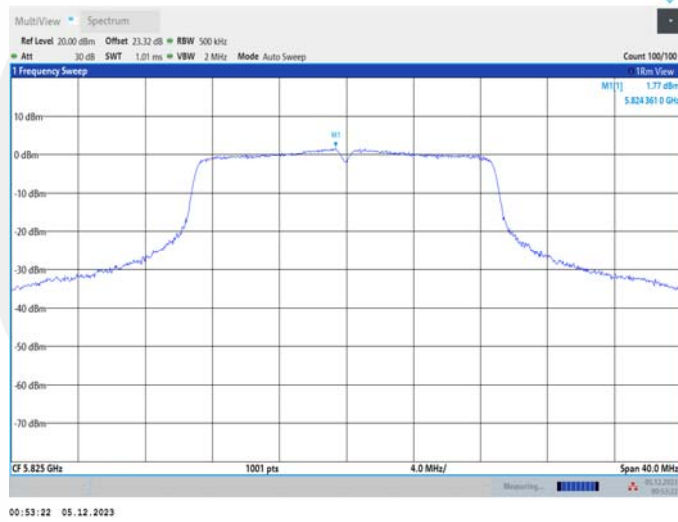
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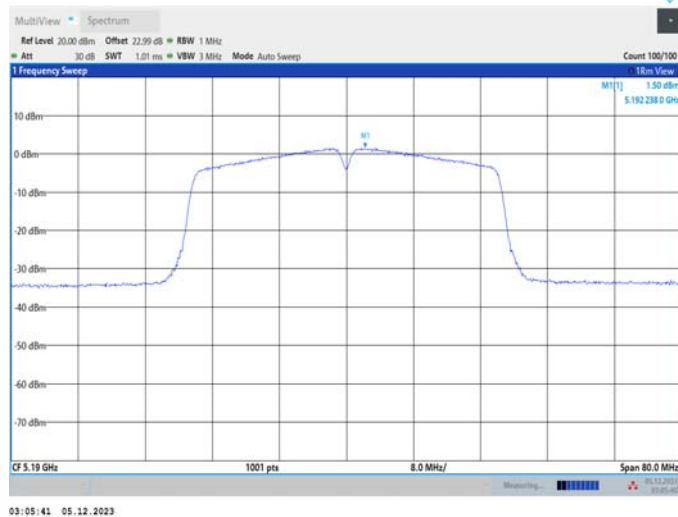
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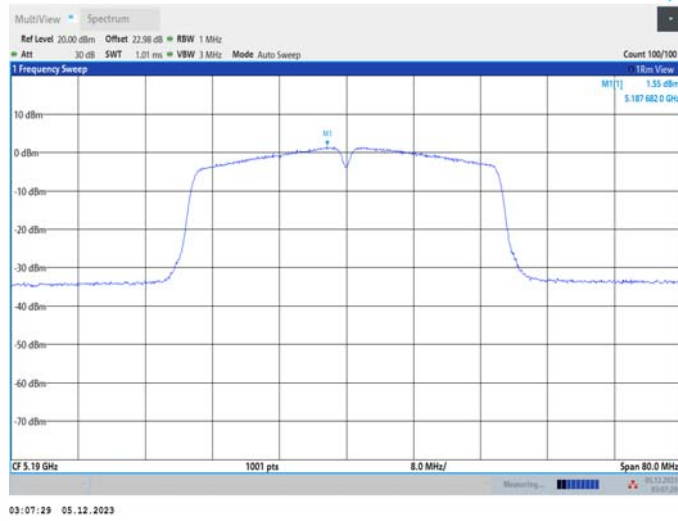
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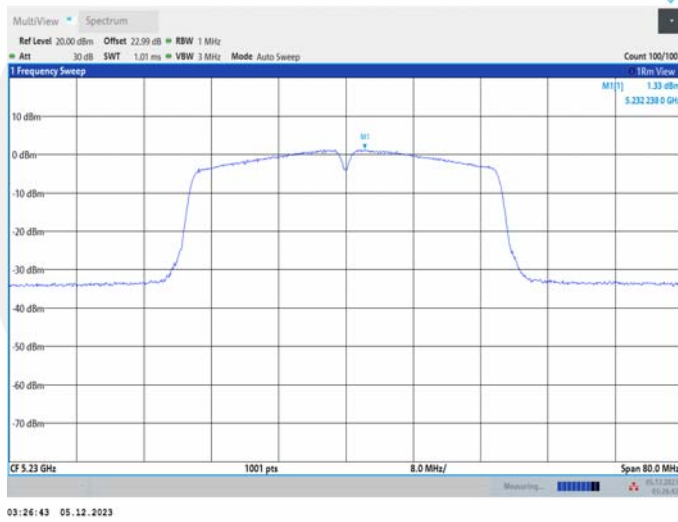
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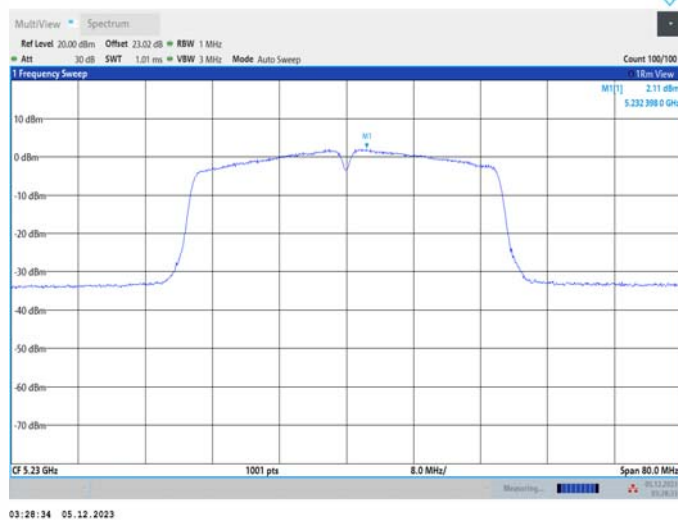
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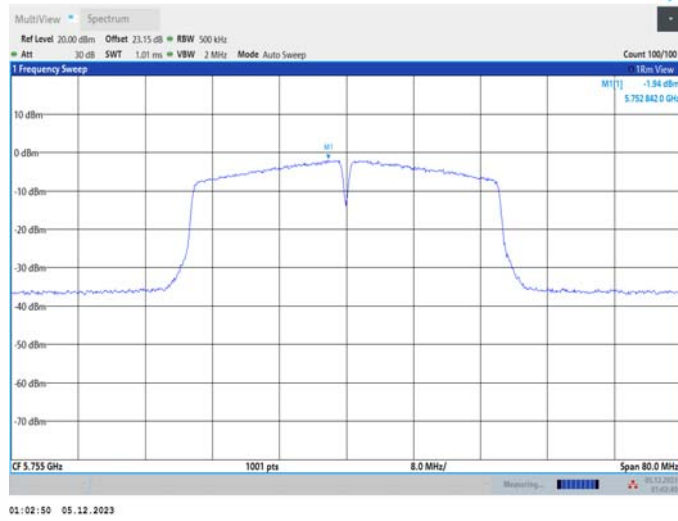
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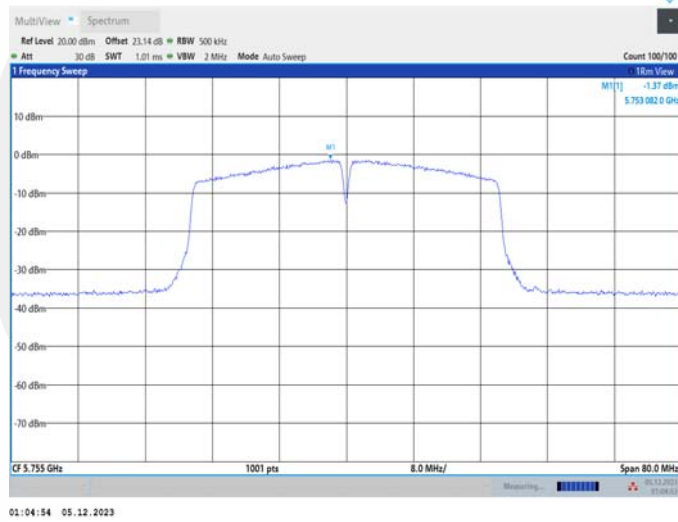
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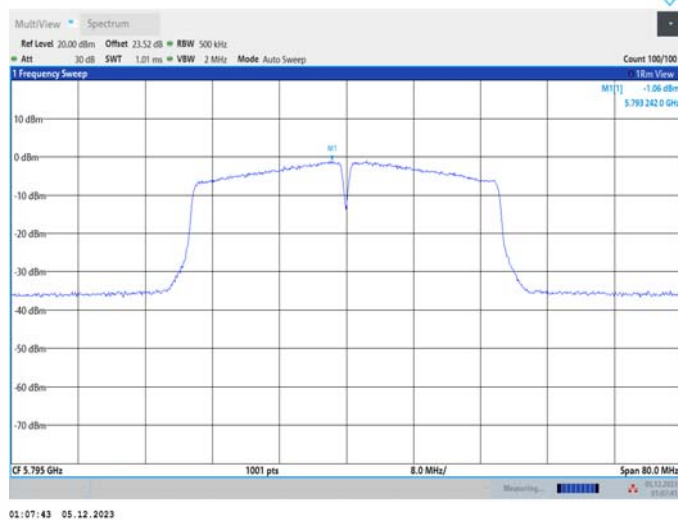
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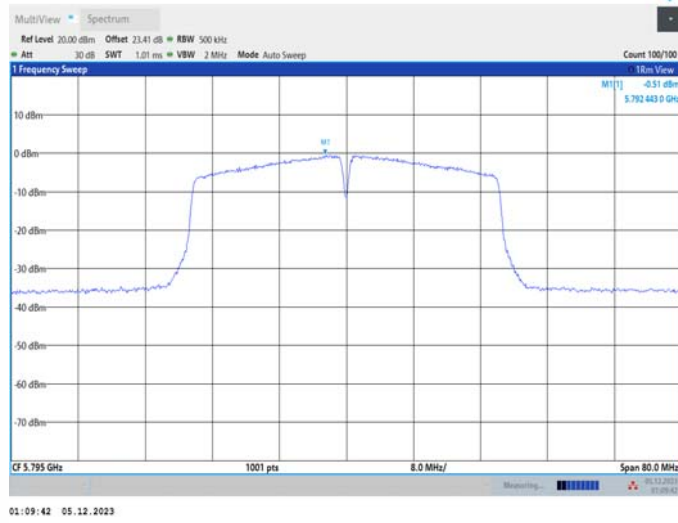
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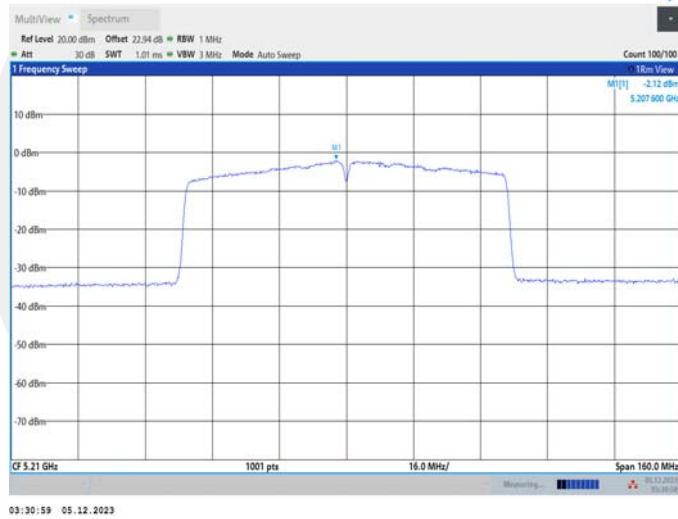
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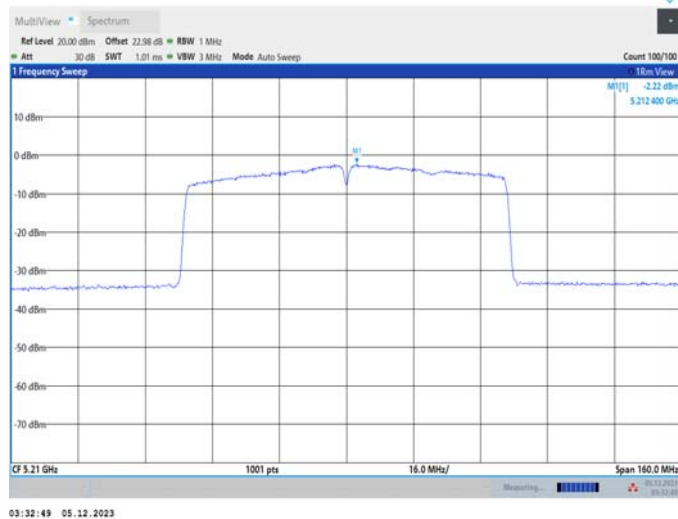
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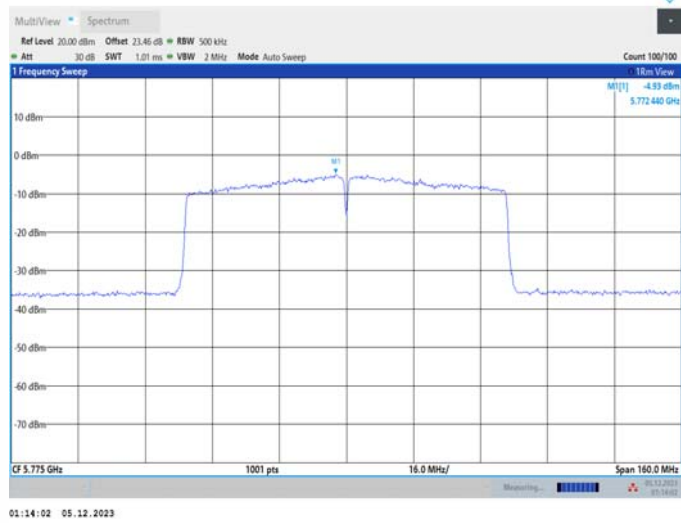
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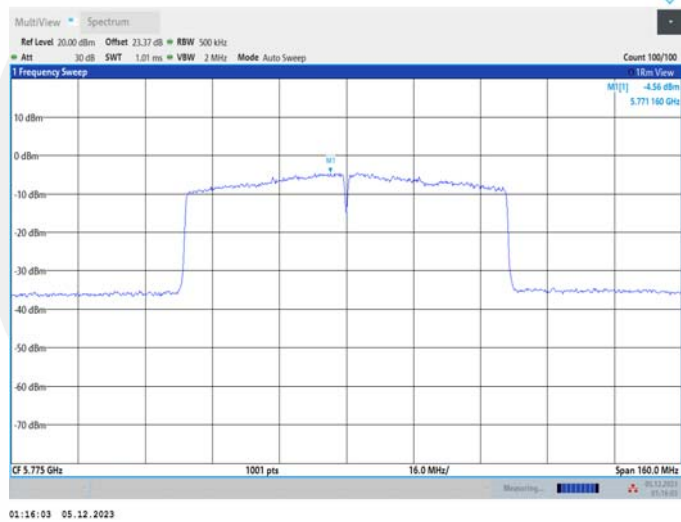
11AC80MIMO_Ant2_5210



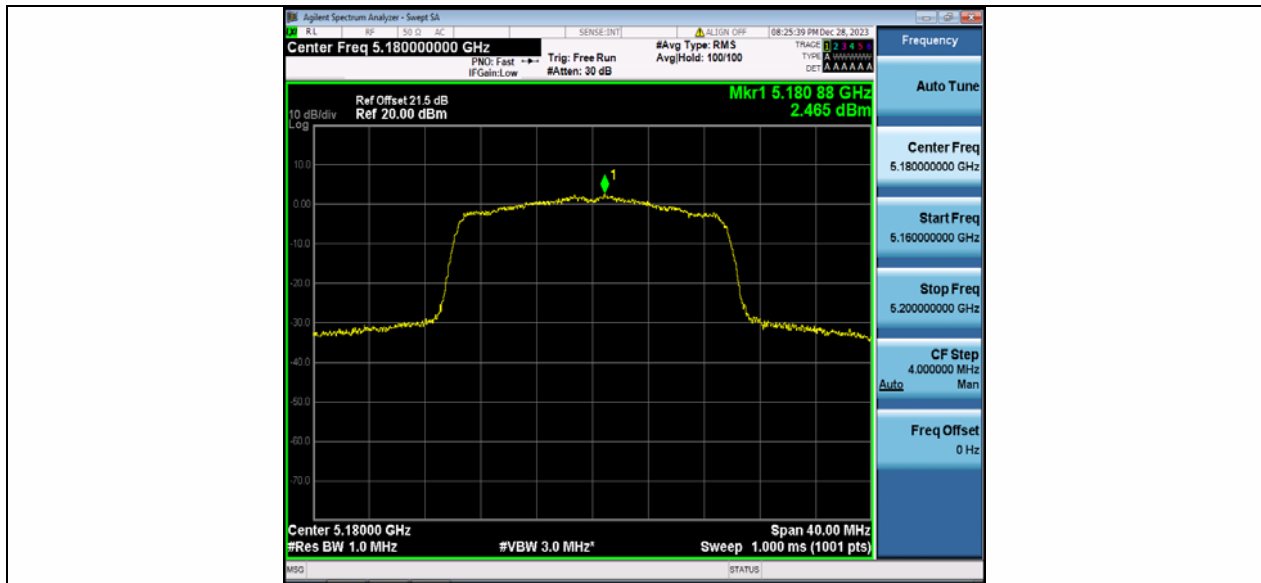
11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



11AX20MIMO_Ant1_5180



11AX20MIMO_Ant2_5180



11AX20MIMO_Ant1_5200

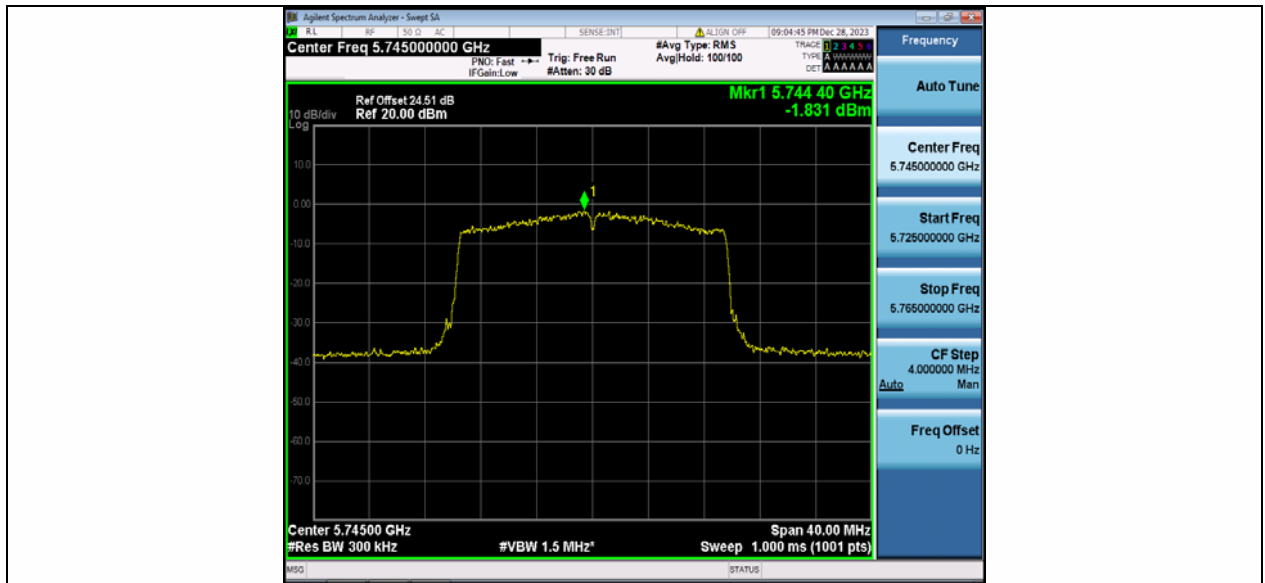




11AX20MIMO_Ant2_5240



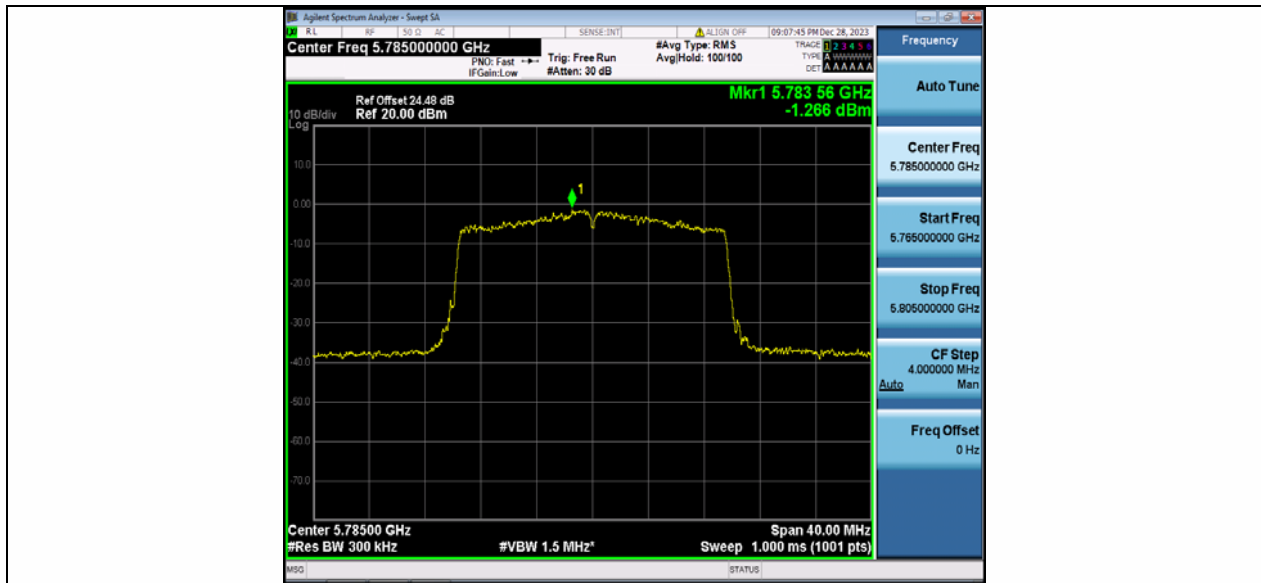
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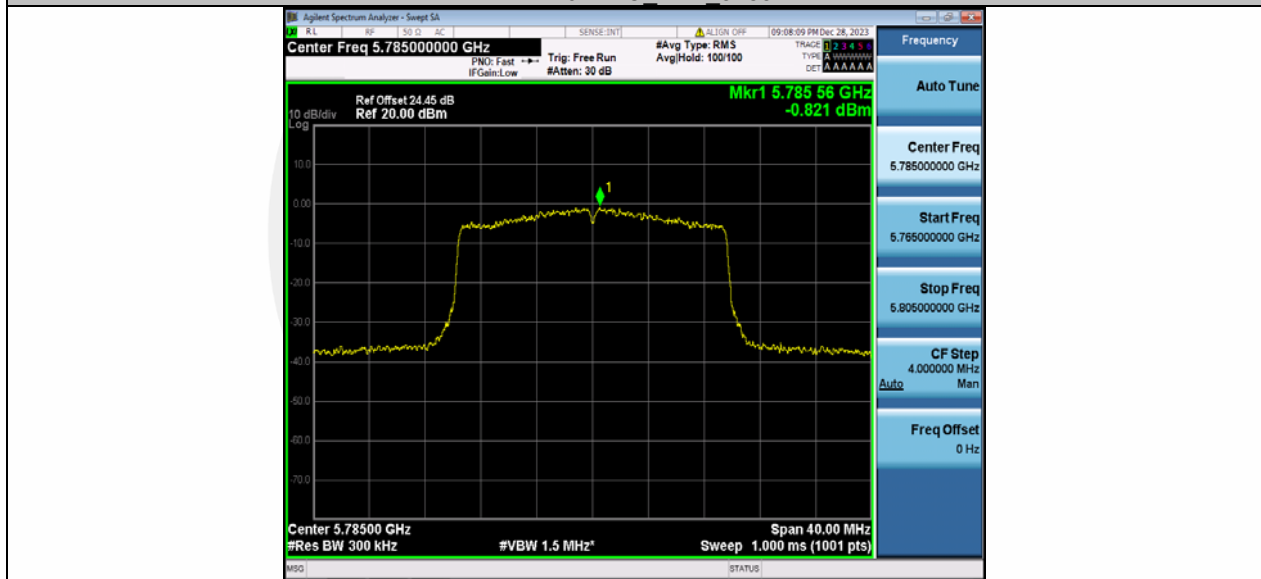
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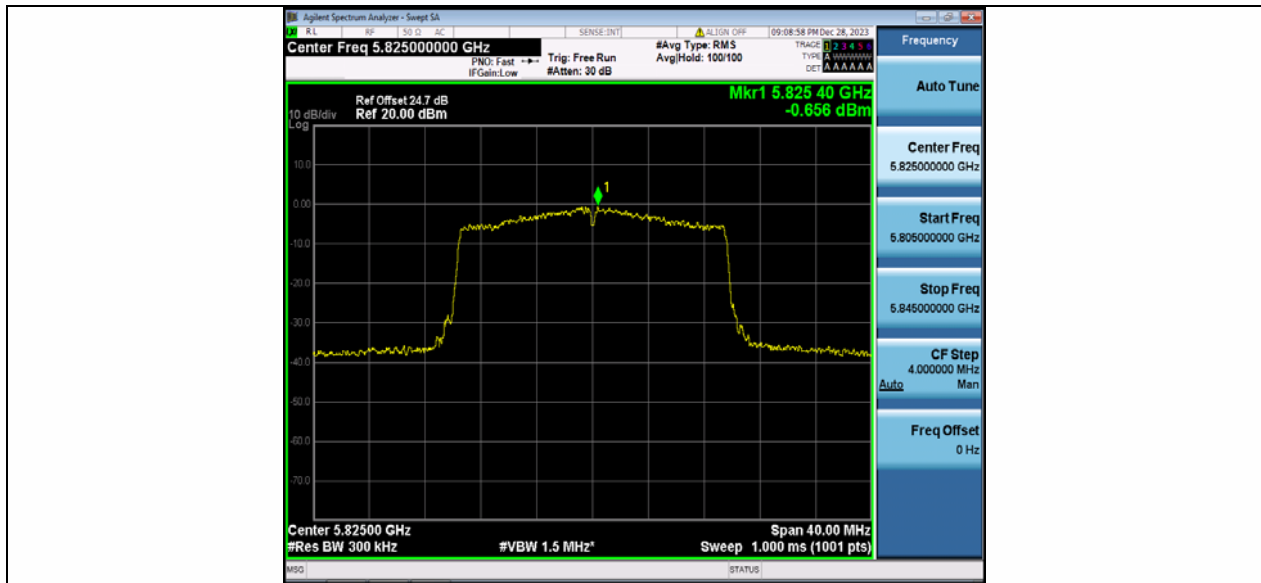
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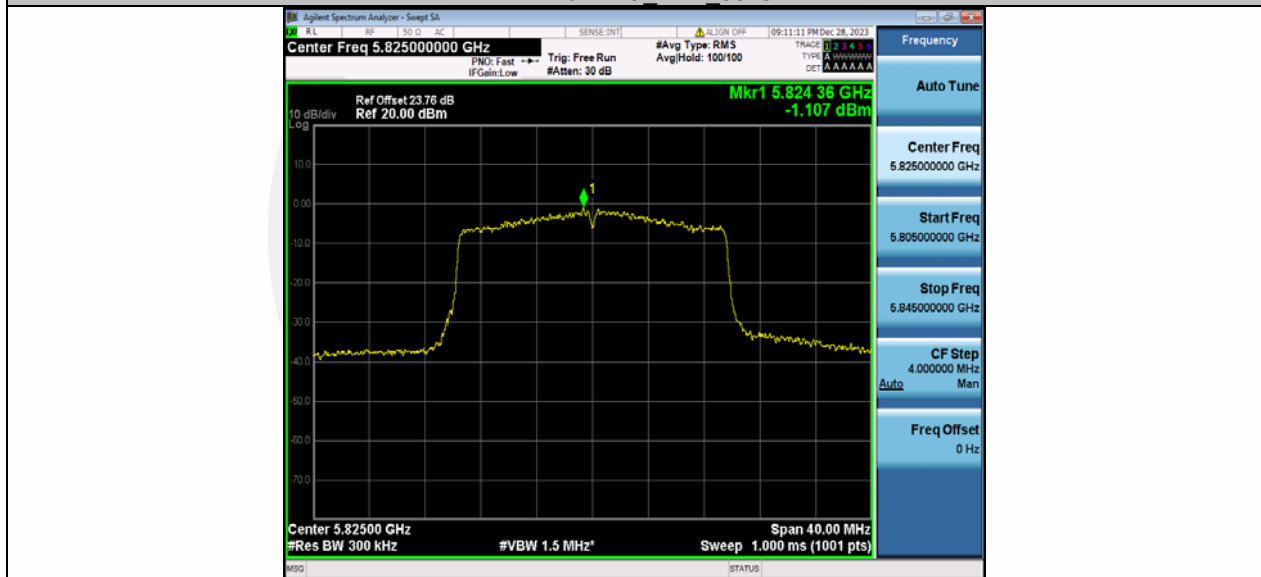
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11AX20MIMO_Ant1_5825



11AX20MIMO_Ant2_5825



11AX40MIMO_Ant1_5190



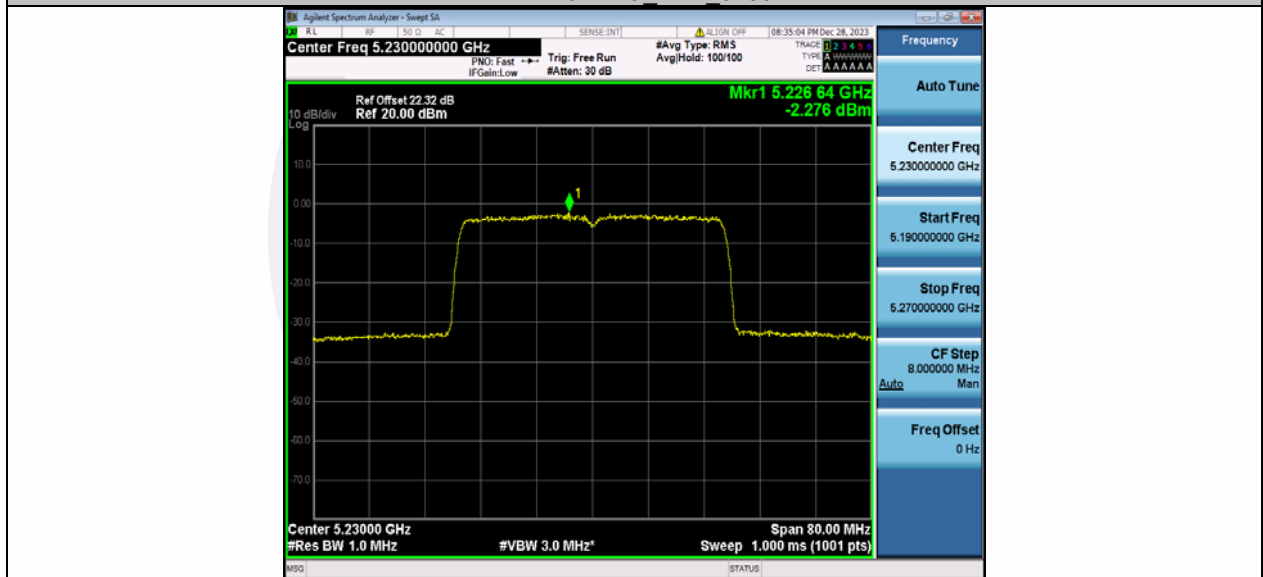
11AX40MIMO_Ant2_5190



11AX40MIMO_Ant1_5230



11AX40MIMO_Ant2_5230



11AX40MIMO_Ant1_5755