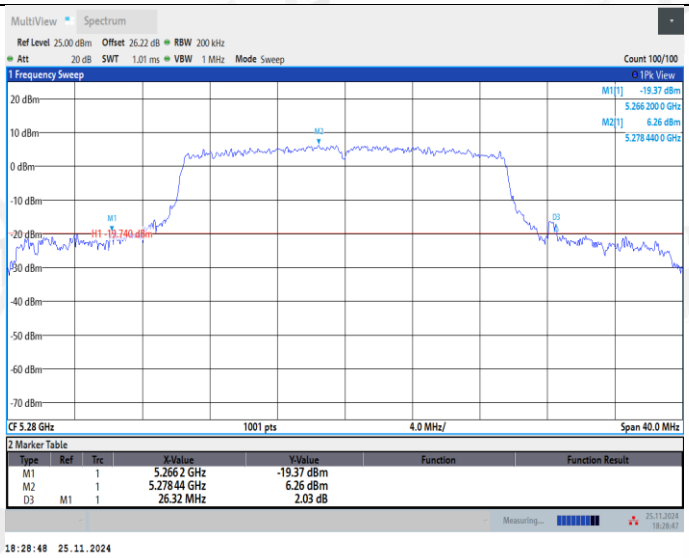

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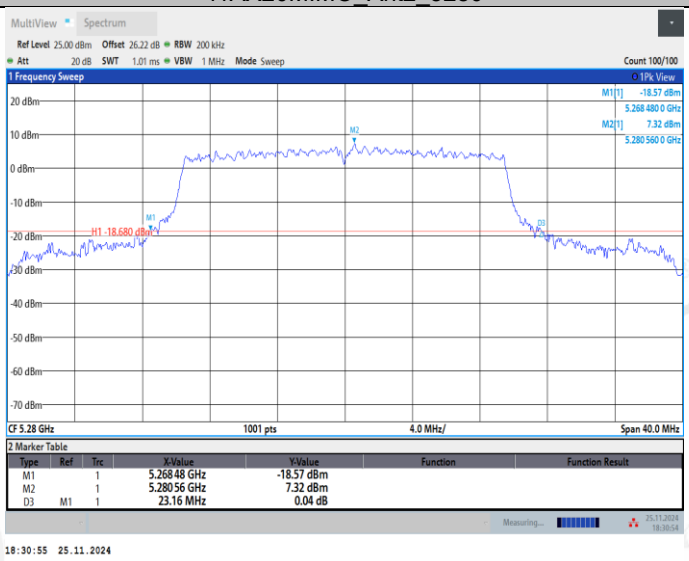

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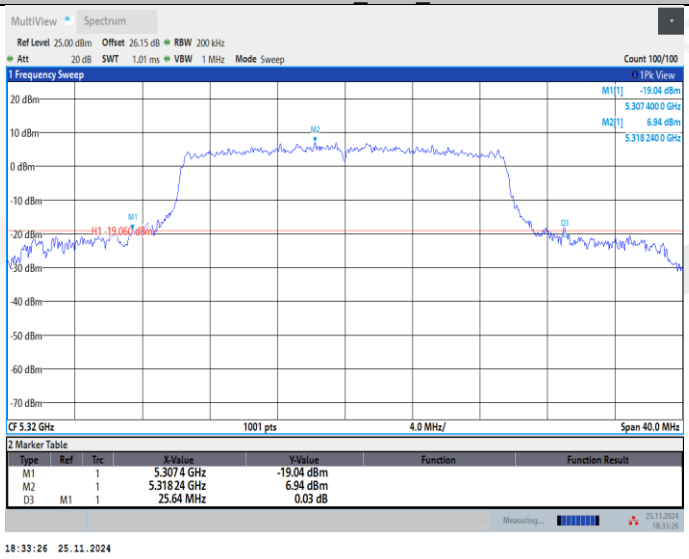

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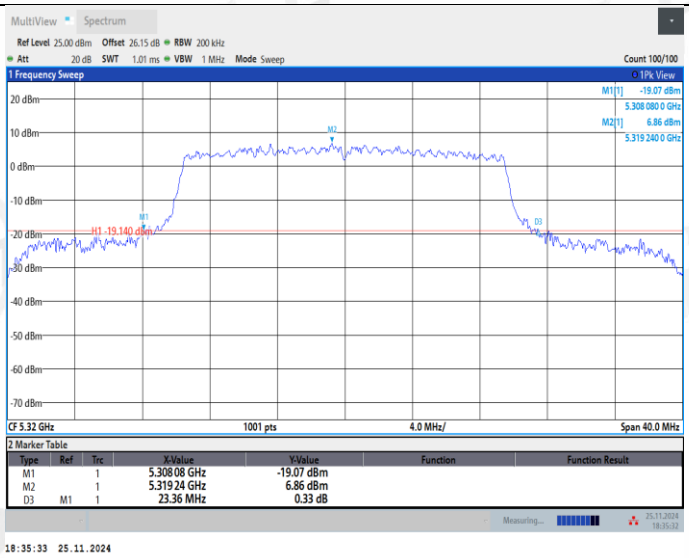

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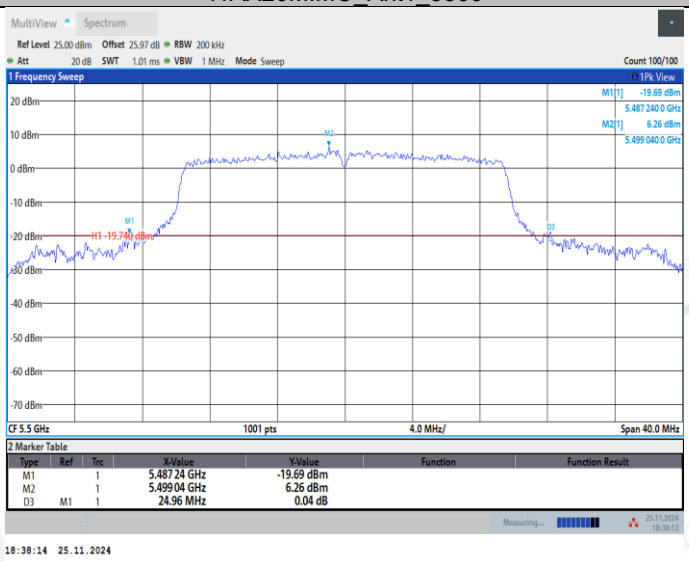

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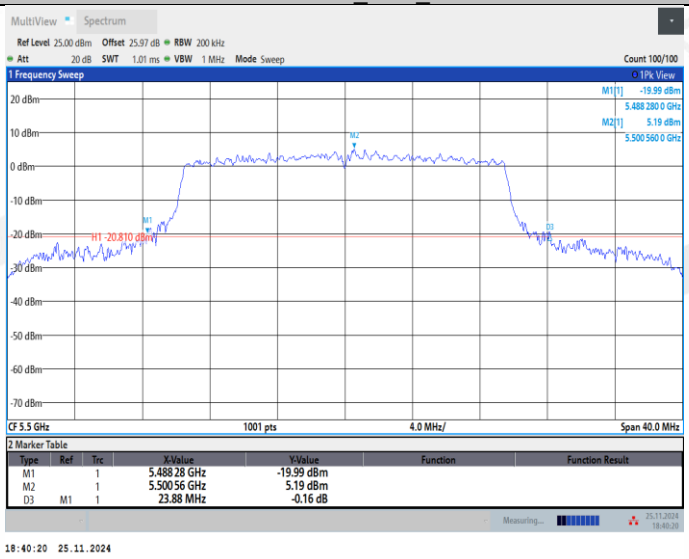

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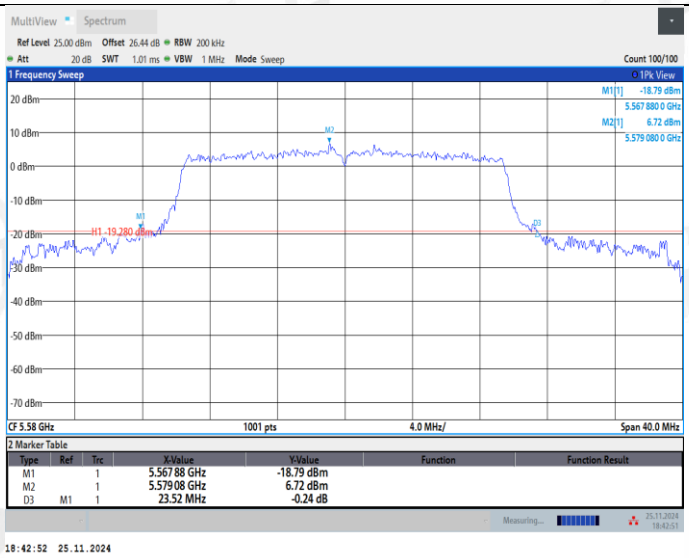

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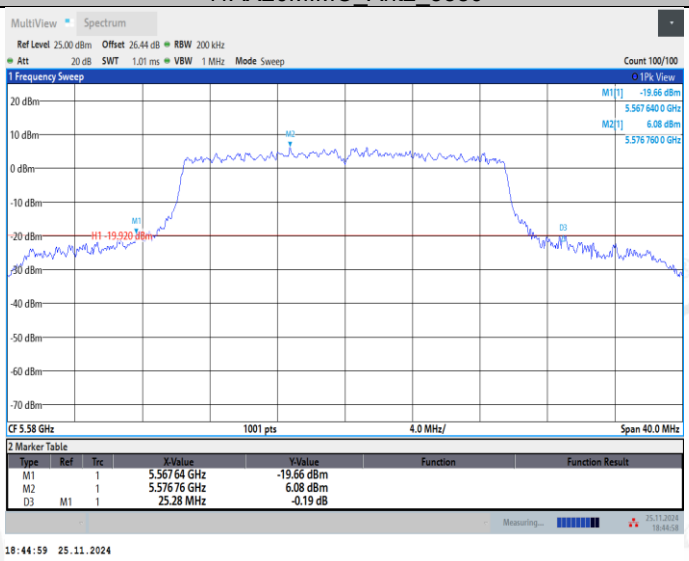

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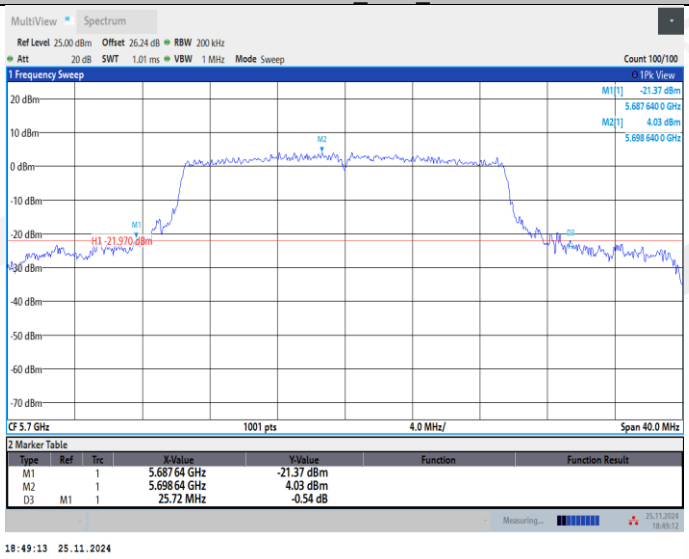

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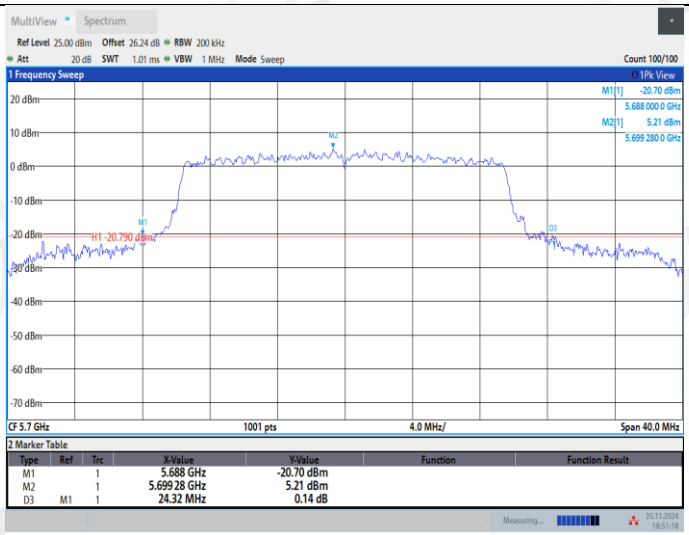

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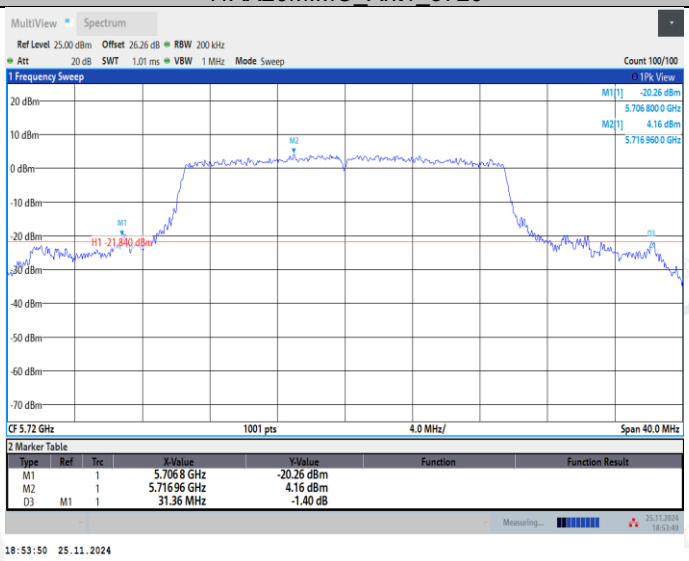

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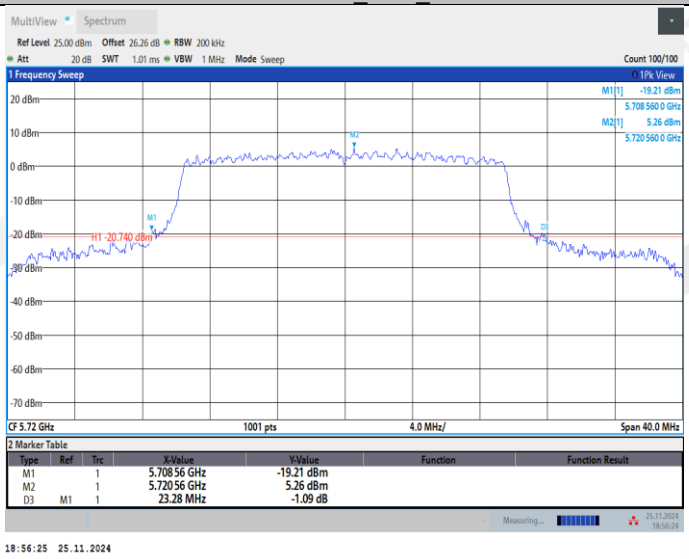

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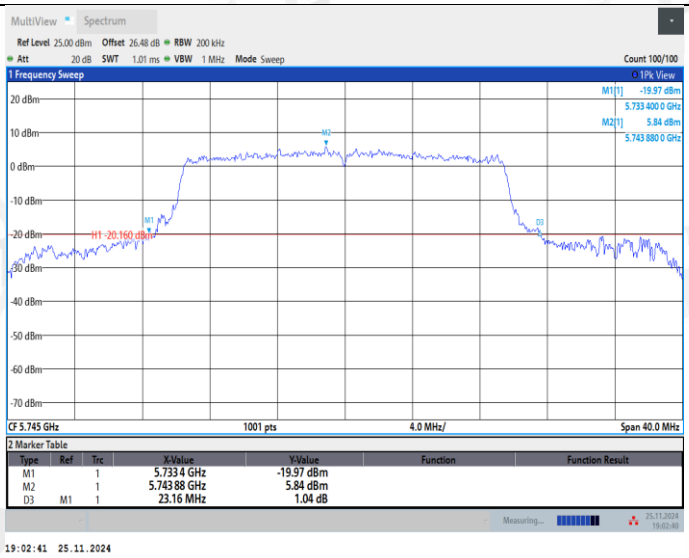

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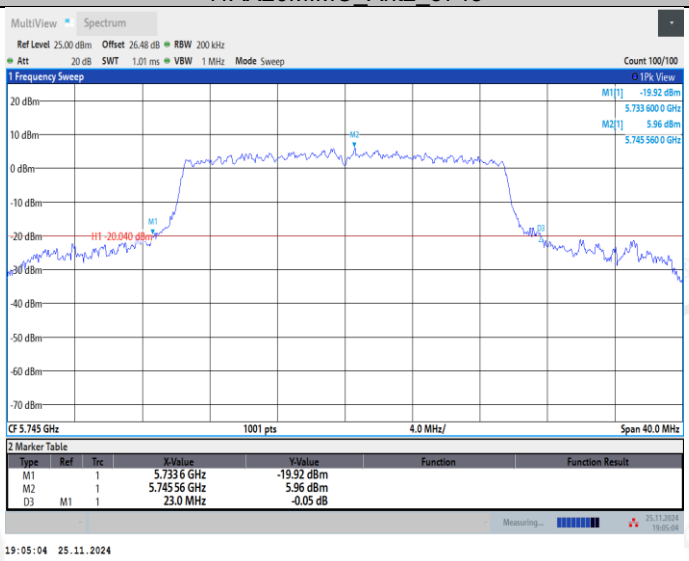

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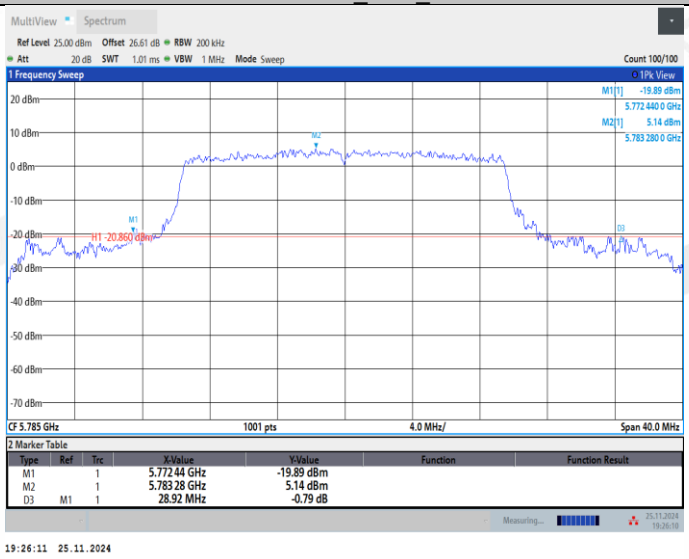

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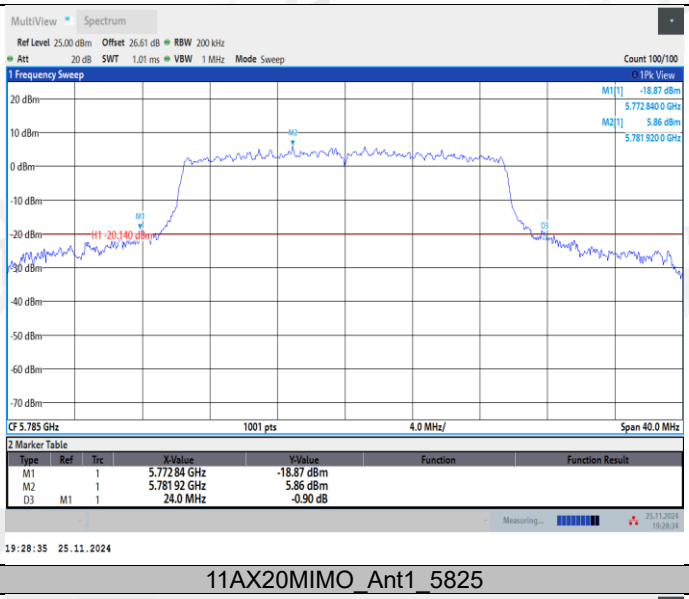

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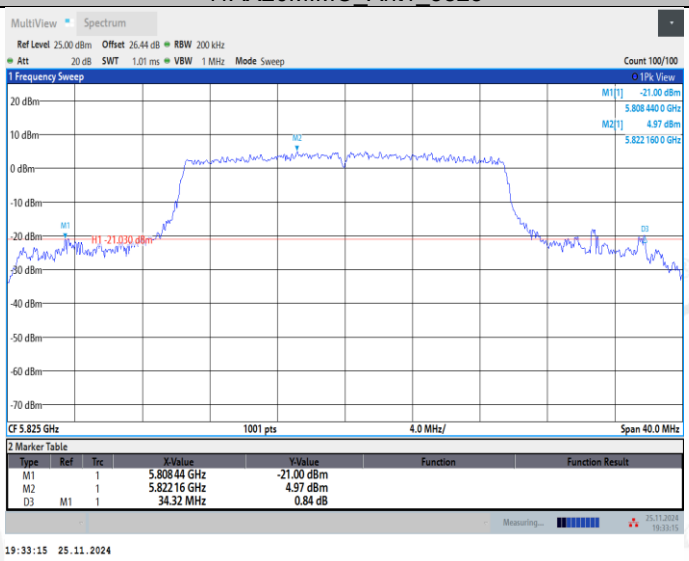

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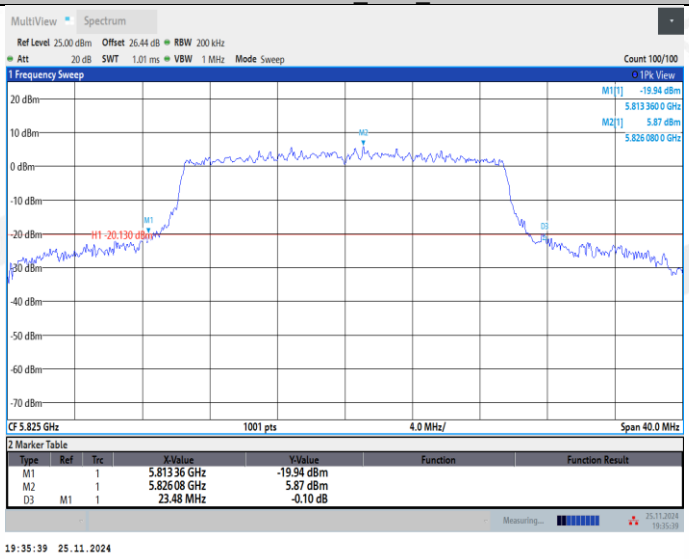

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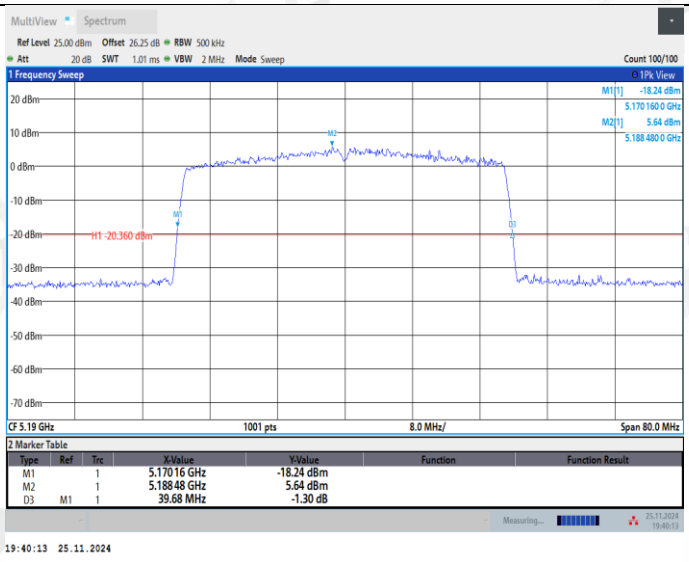

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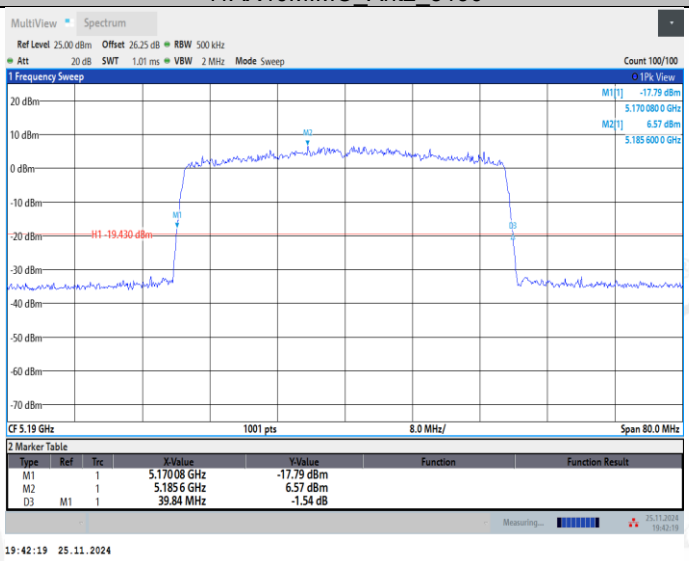

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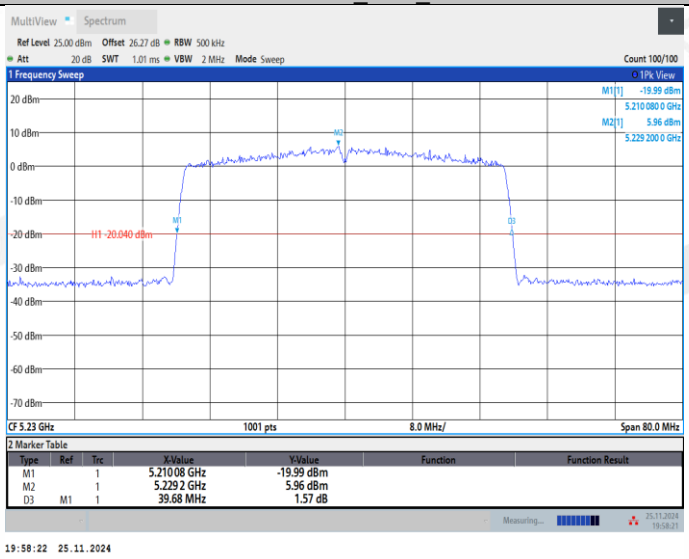

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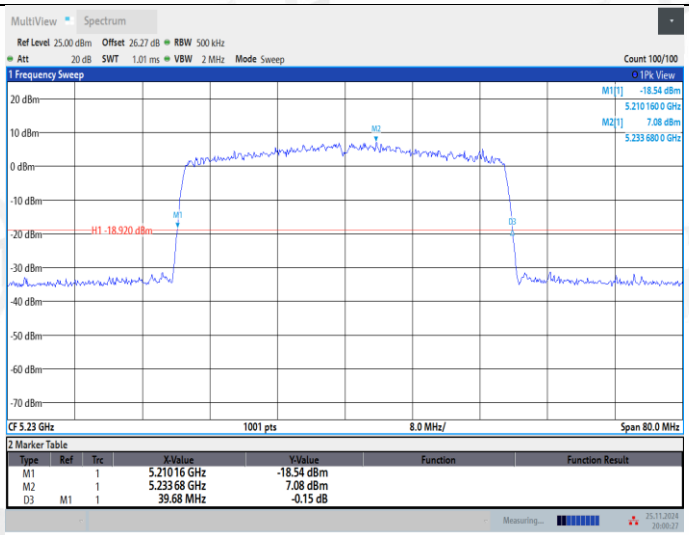

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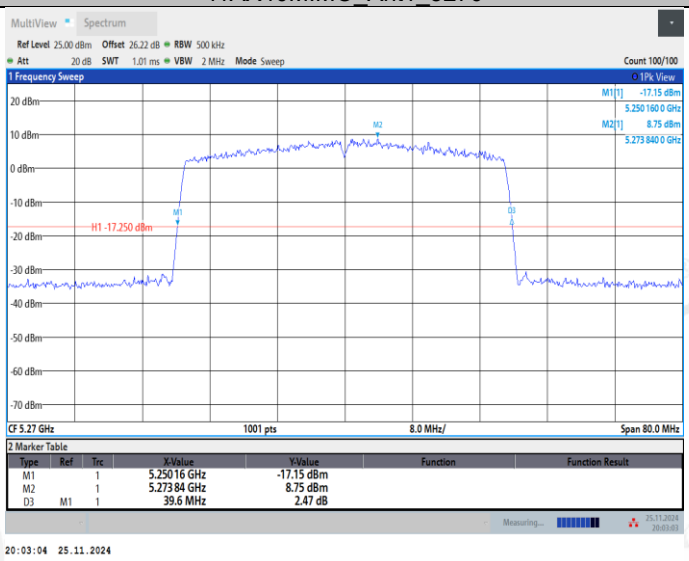

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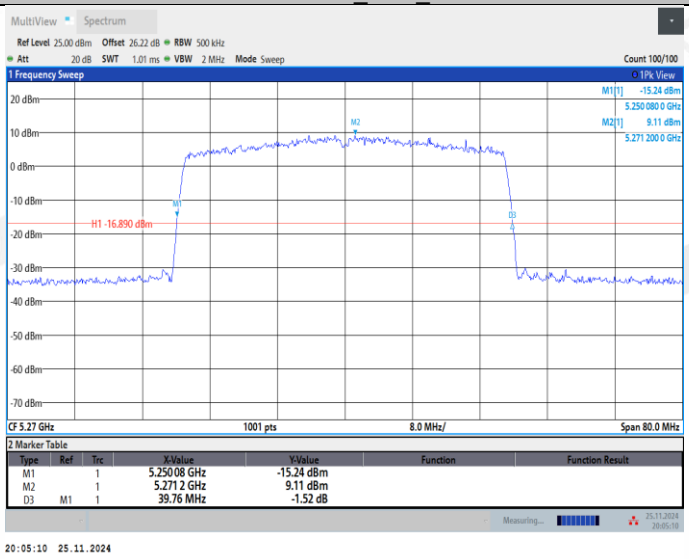

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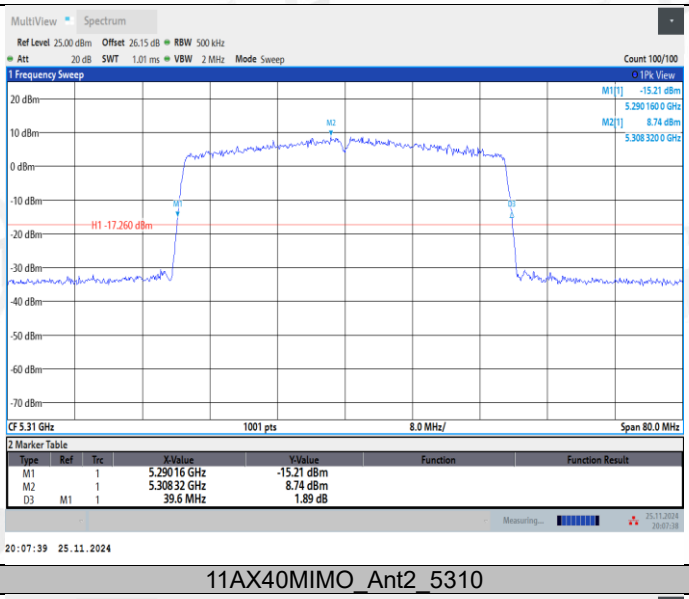

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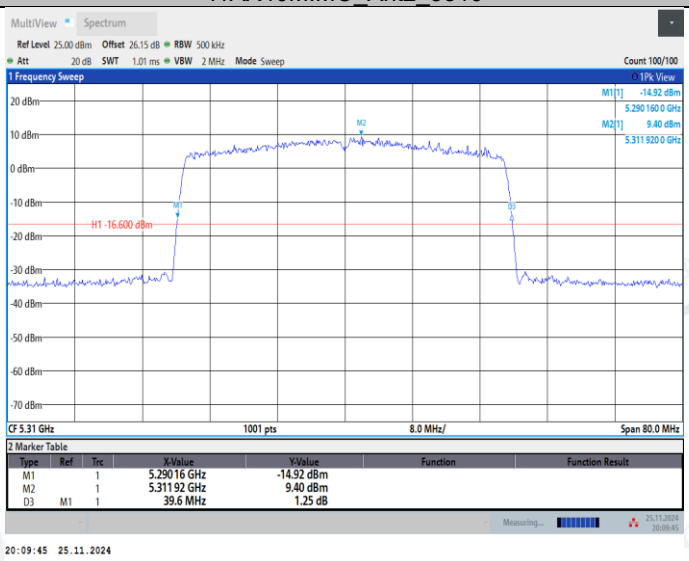

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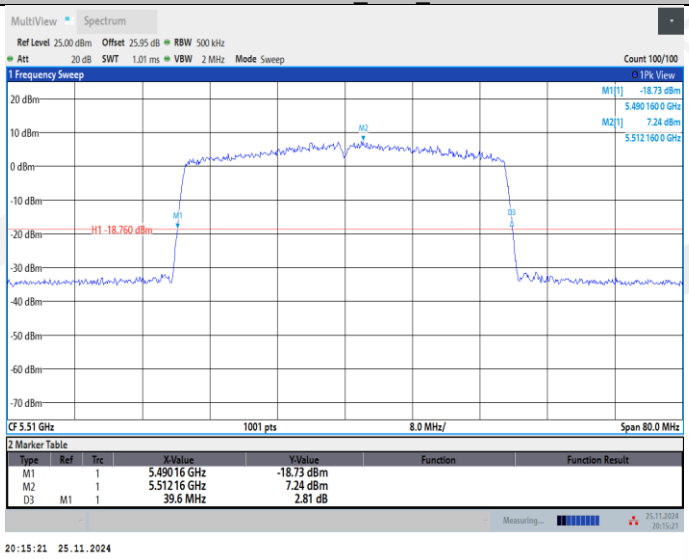

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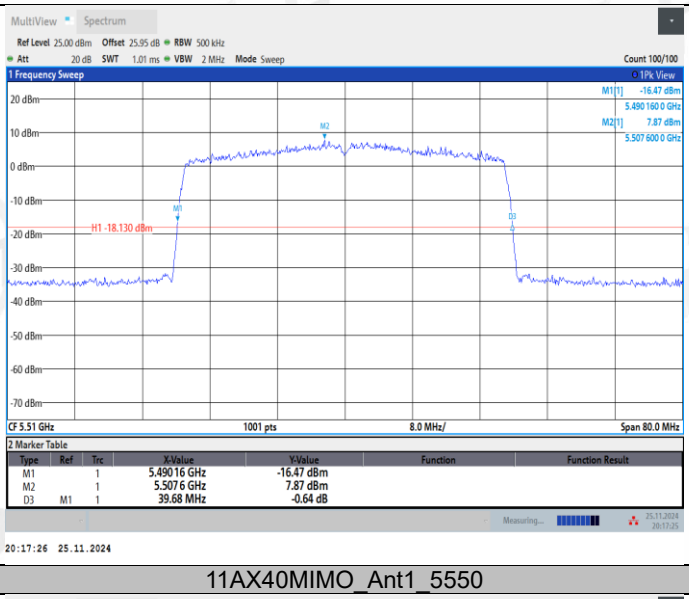

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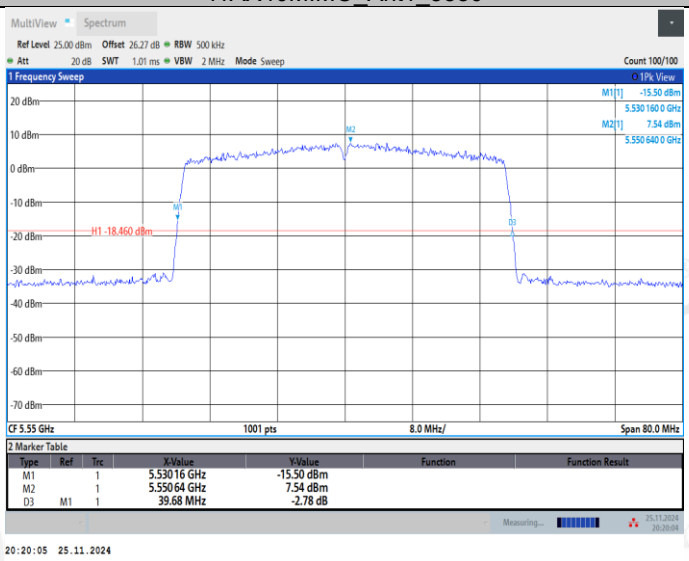

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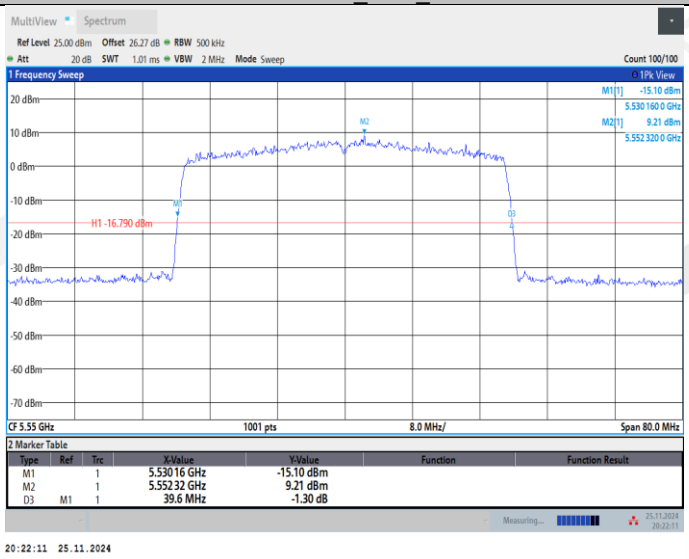

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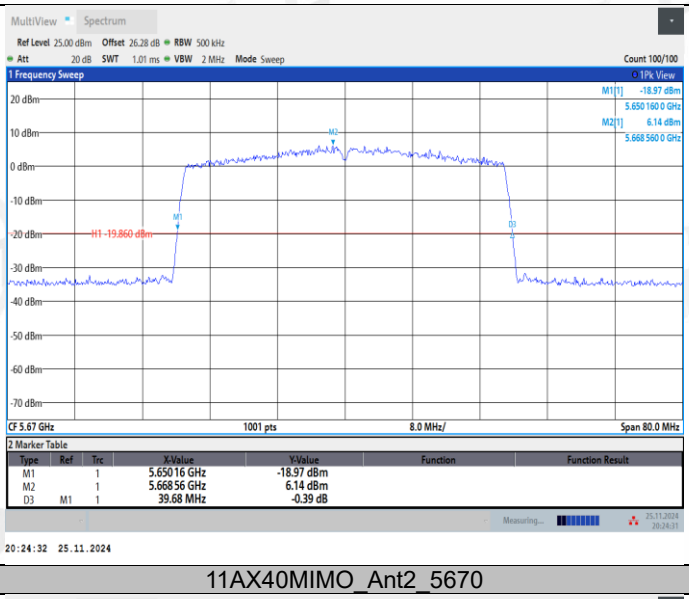

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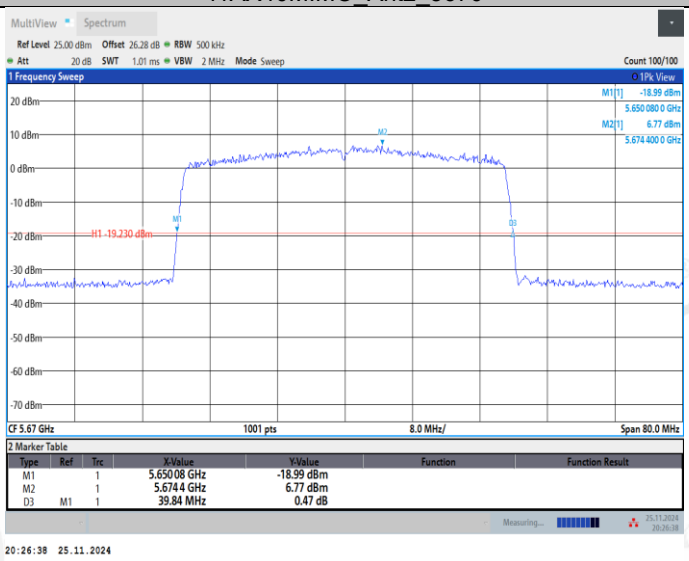

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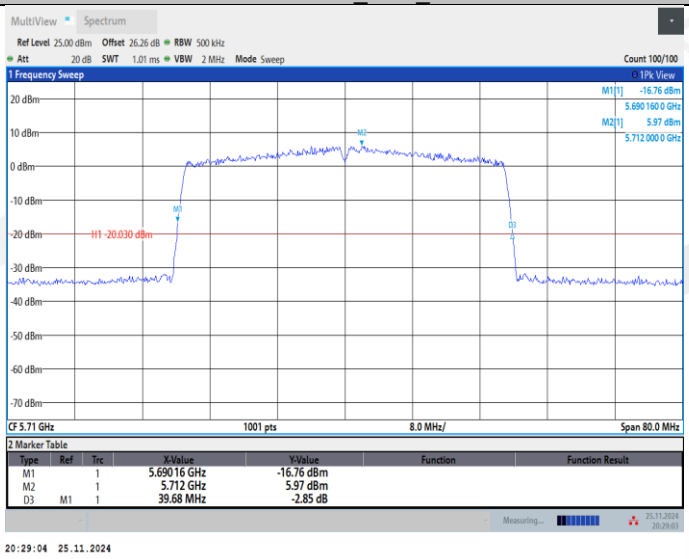

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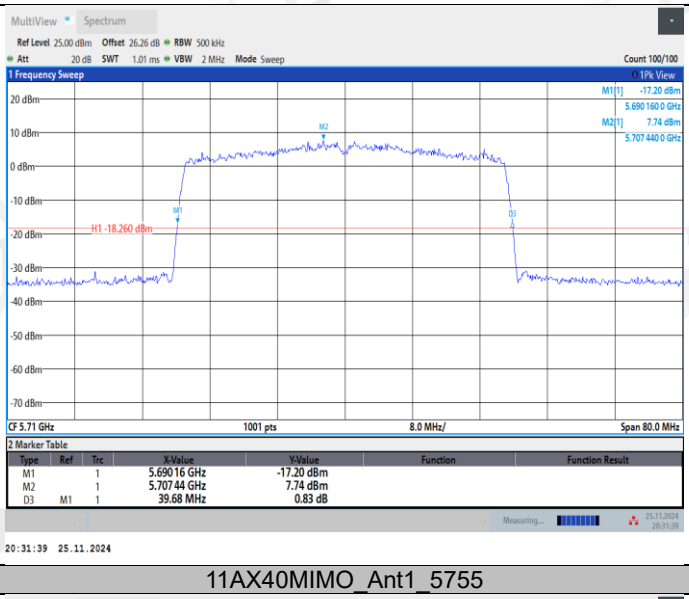

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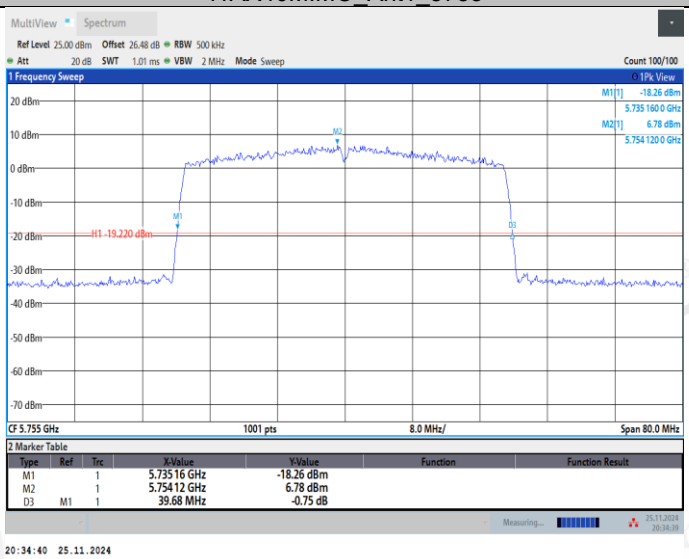

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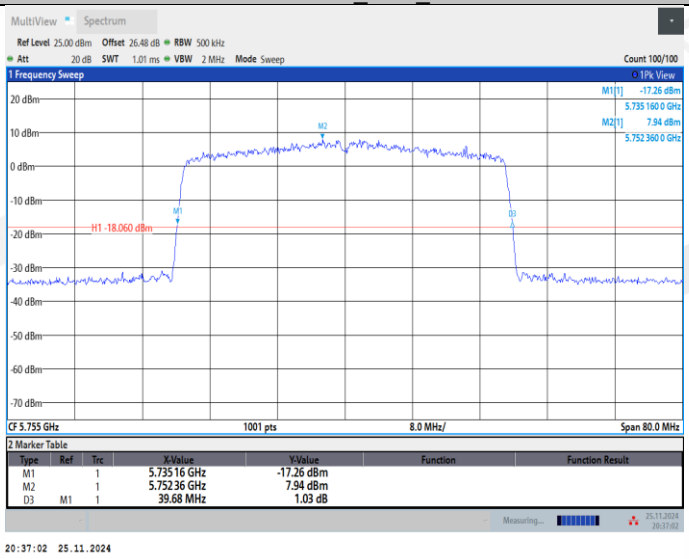

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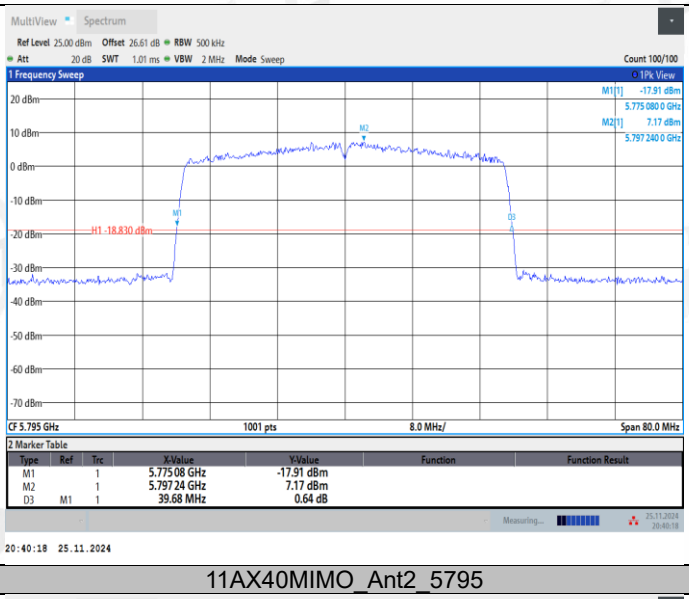

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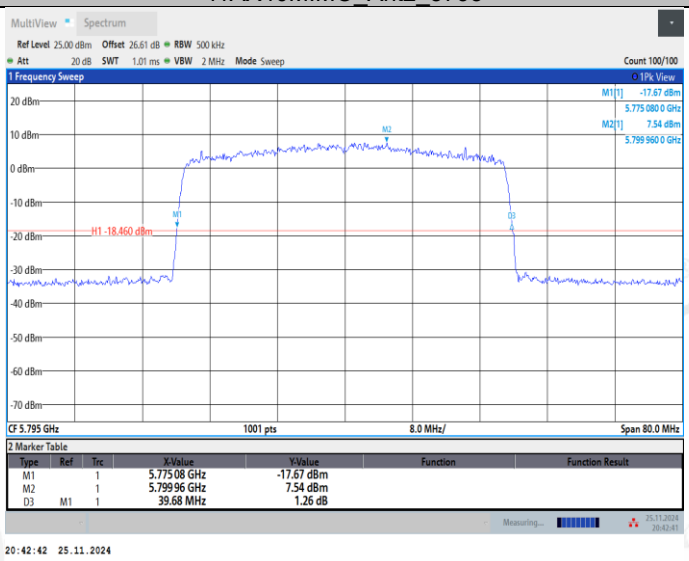

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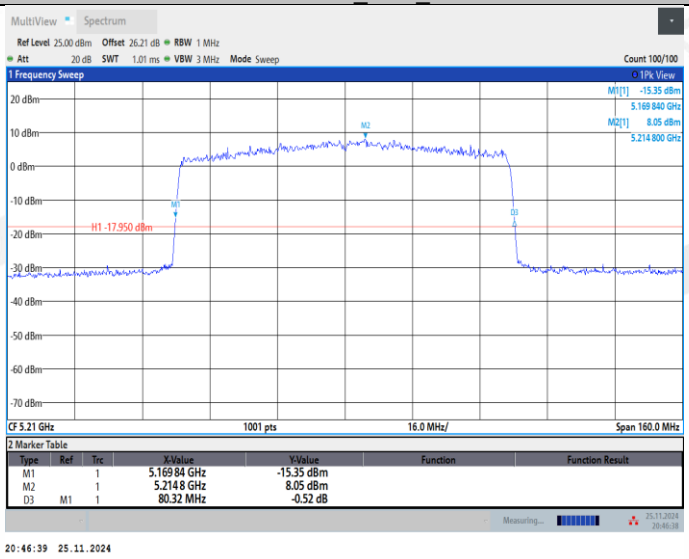

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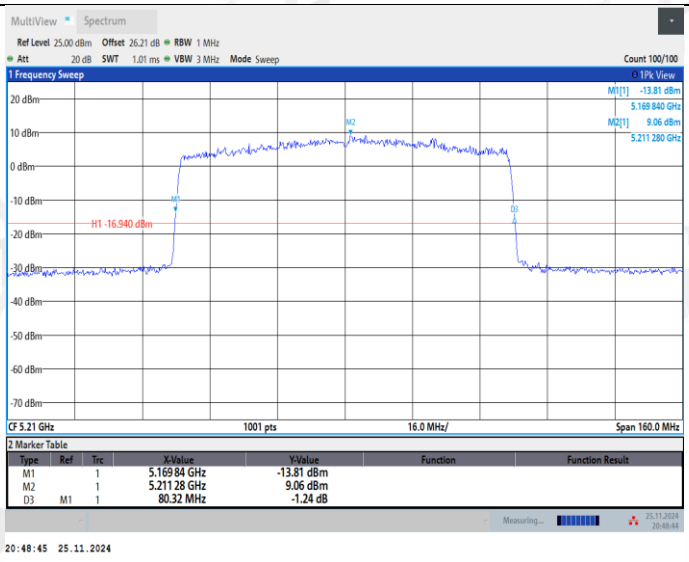

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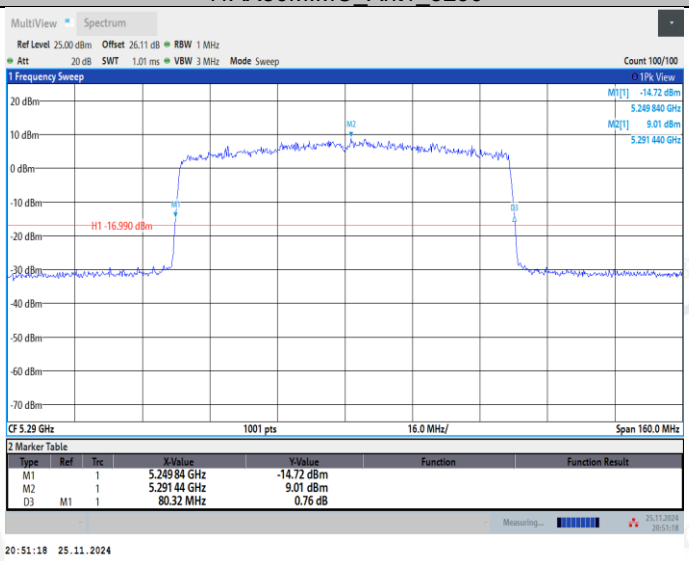

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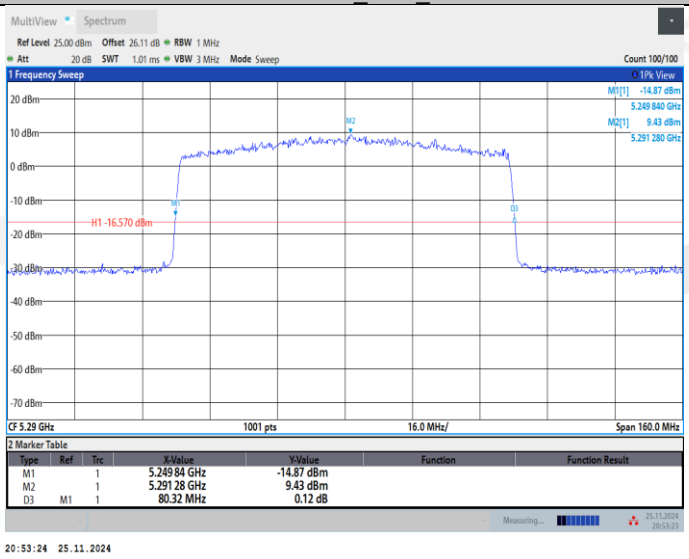

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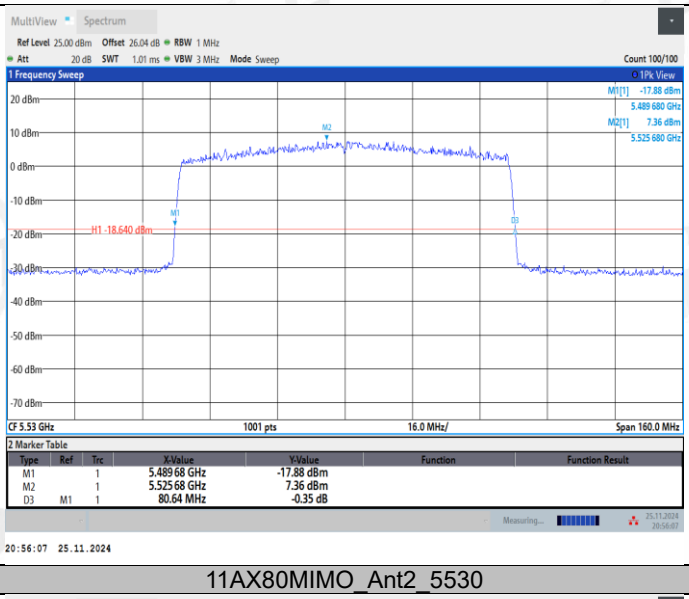

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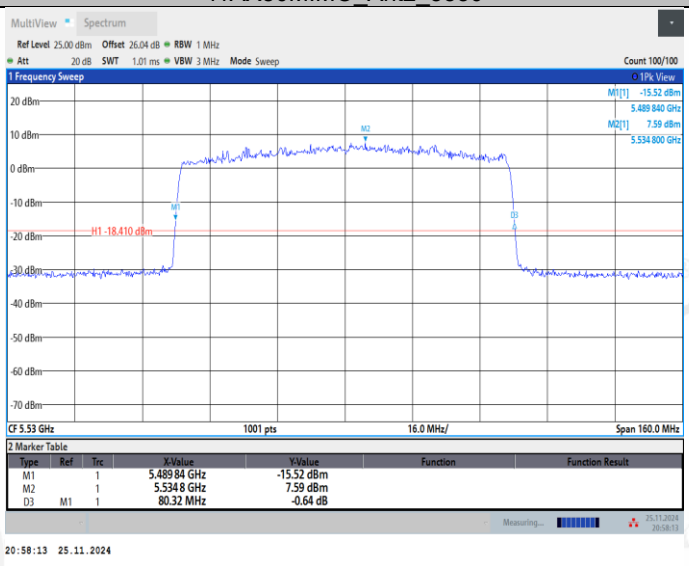

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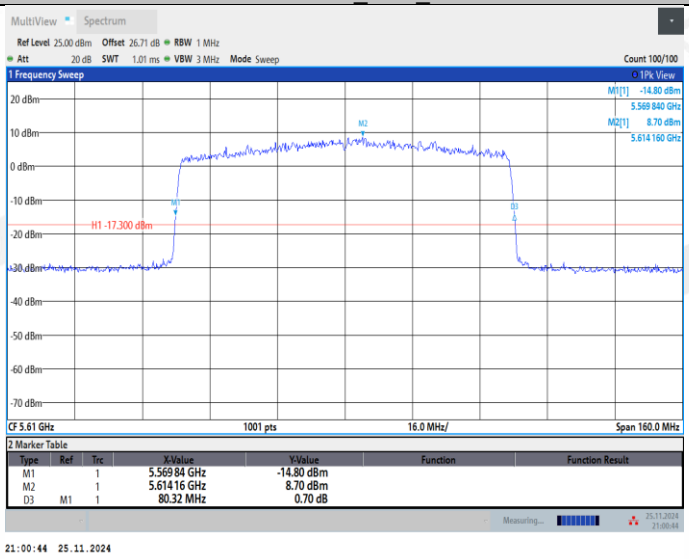

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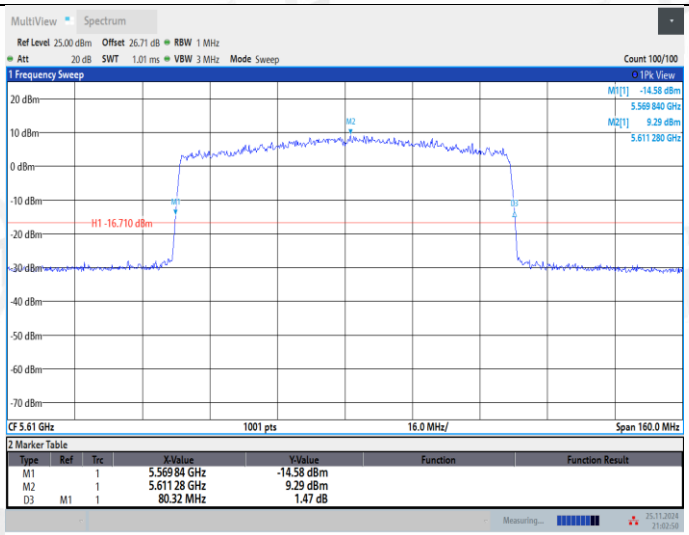

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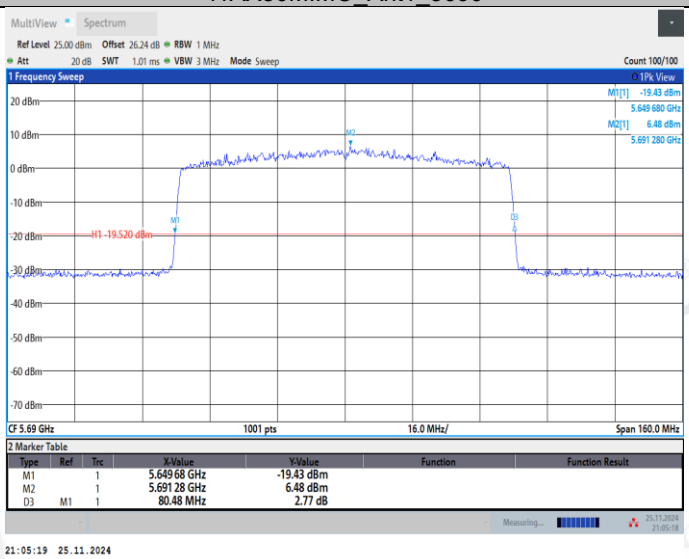

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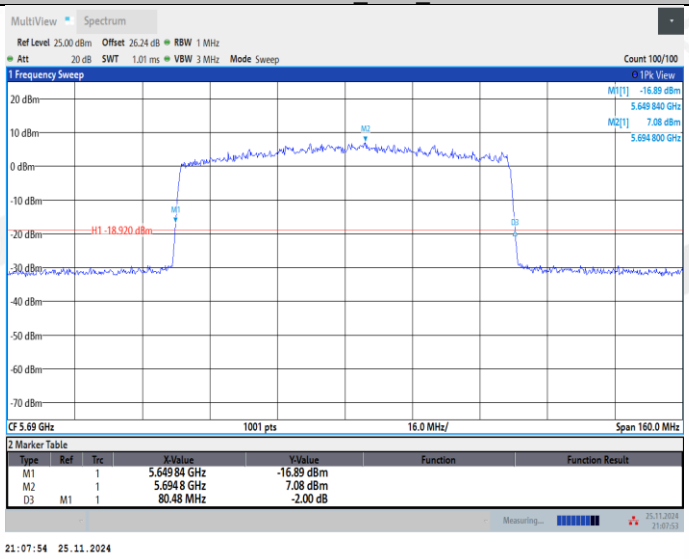

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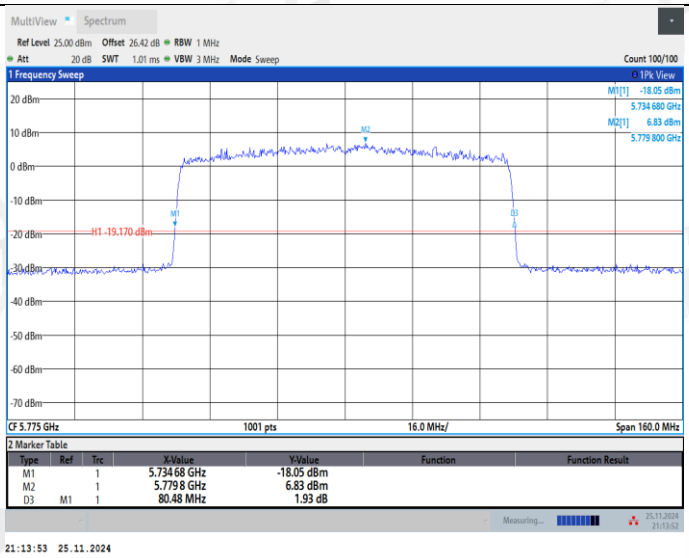

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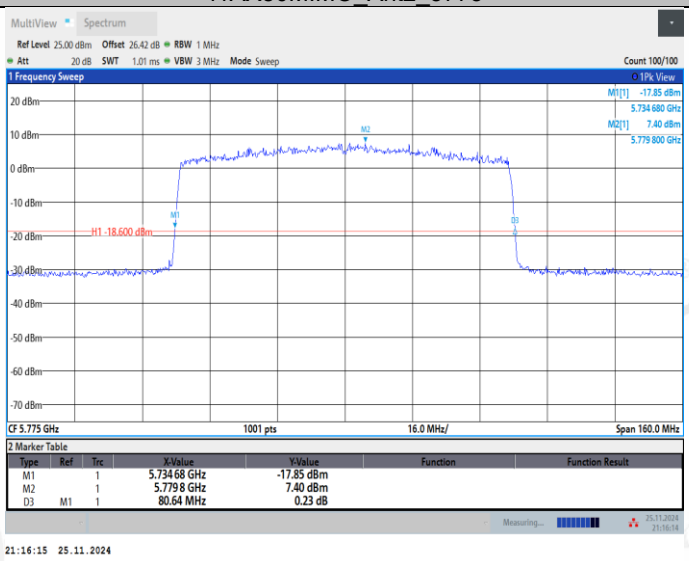
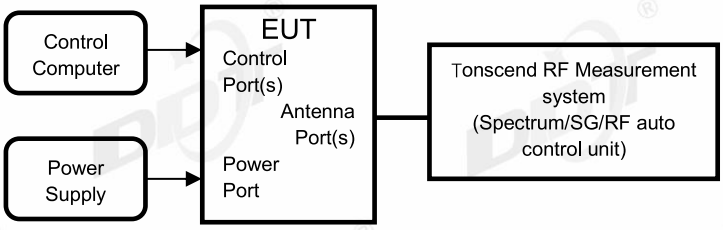


5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, 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.

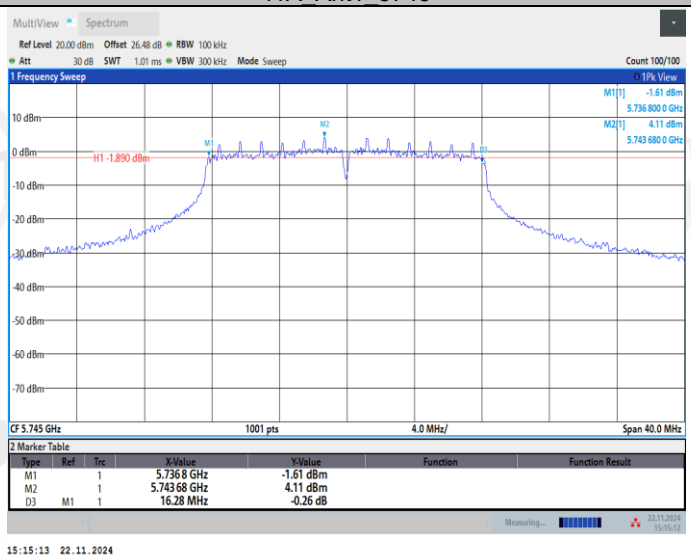
5.4. Test result B4

Test Engineer:	Zoe Peng	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3-23.1℃,47.2-49.1%RH	Test Date:	2024.11.22-2024.11.25
Test Power Supply:	AC 100-240V	Sample Number:	S24111522-014

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.28	5736.80	5753.08	0.5	PASS
	Ant2	5745	16.28	5736.80	5753.08	0.5	PASS
	Ant1	5785	16.08	5777.00	5793.08	0.5	PASS
	Ant2	5785	16.28	5776.80	5793.08	0.5	PASS
	Ant1	5825	16.28	5816.80	5833.08	0.5	PASS
	Ant2	5825	16.28	5816.80	5833.08	0.5	PASS
11N20MIMO	Ant1	5745	17.04	5736.40	5753.44	0.5	PASS
	Ant2	5745	17.60	5736.12	5753.72	0.5	PASS
	Ant1	5785	17.12	5776.56	5793.68	0.5	PASS
	Ant2	5785	17.60	5776.12	5793.72	0.5	PASS
	Ant1	5825	16.76	5816.56	5833.32	0.5	PASS
	Ant2	5825	17.60	5816.12	5833.72	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	35.04	5777.48	5812.52	0.5	PASS
	Ant2	5795	35.12	5777.40	5812.52	0.5	PASS
11AC20MIMO	Ant1	5745	16.92	5736.40	5753.32	0.5	PASS
	Ant2	5745	17.60	5736.12	5753.72	0.5	PASS
	Ant1	5785	17.16	5776.52	5793.68	0.5	PASS
	Ant2	5785	17.60	5776.12	5793.72	0.5	PASS
	Ant1	5825	17.04	5816.40	5833.44	0.5	PASS
	Ant2	5825	17.60	5816.12	5833.72	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	35.04	5777.48	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	18.76	5735.52	5754.28	0.5	PASS
	Ant2	5745	19.04	5735.40	5754.44	0.5	PASS
	Ant1	5785	18.84	5775.52	5794.36	0.5	PASS
	Ant2	5785	19.00	5775.40	5794.40	0.5	PASS
	Ant1	5825	18.80	5815.48	5834.28	0.5	PASS
	Ant2	5825	19.04	5815.40	5834.44	0.5	PASS
11AX40MIMO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant2	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant1	5795	36.00	5777.40	5813.40	0.5	PASS
	Ant2	5795	35.12	5777.40	5812.52	0.5	PASS
11AX80MIMO	Ant1	5775	76.00	5737.24	5813.24	0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	0.5	PASS

5.5. Test graphs B4

11A_Ant1_5745



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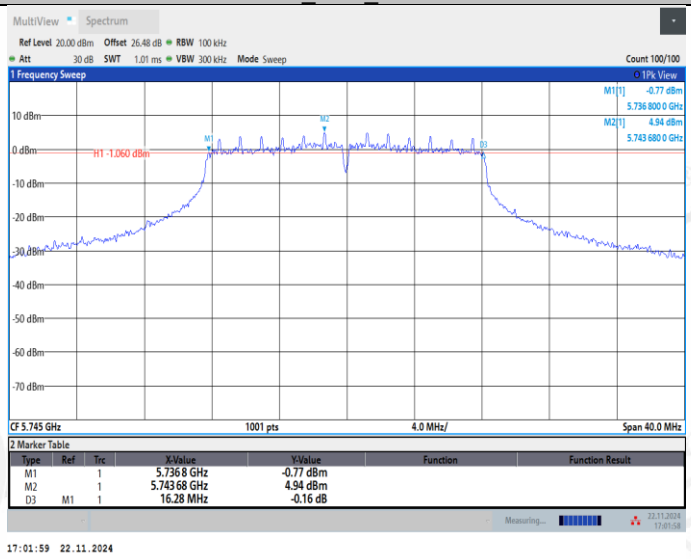

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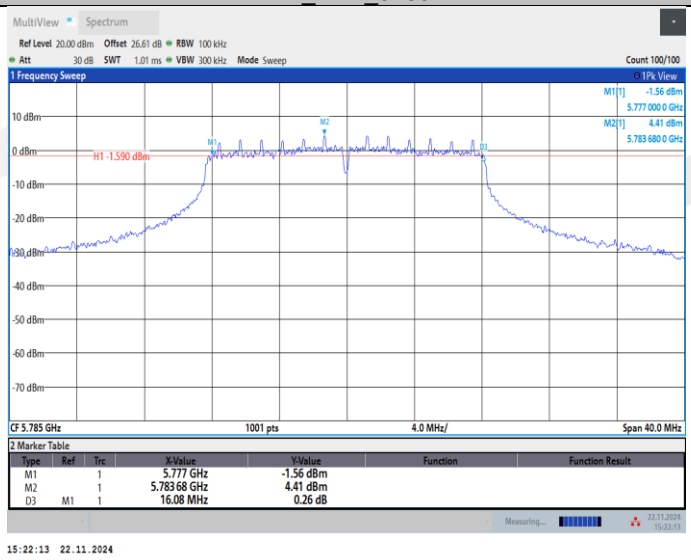

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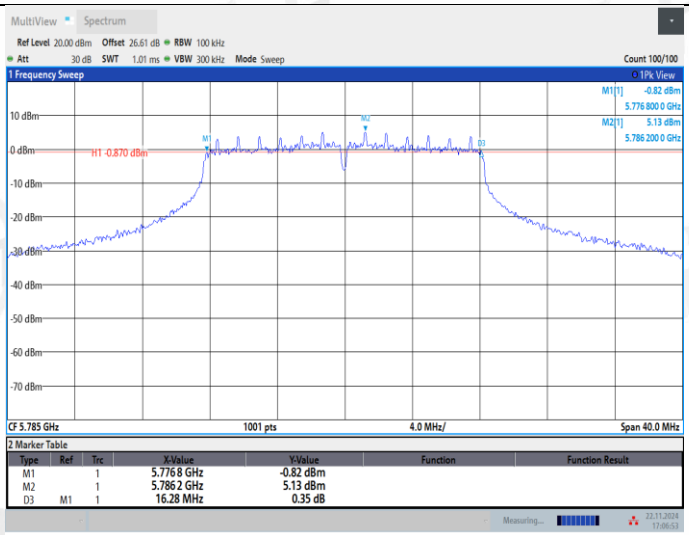

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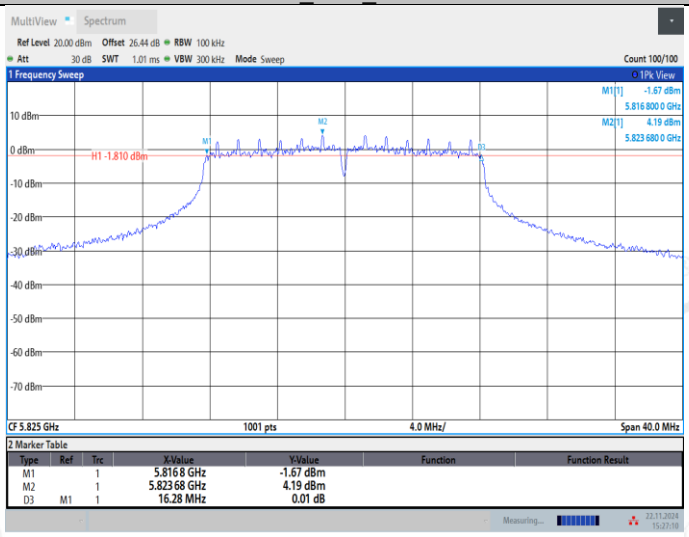

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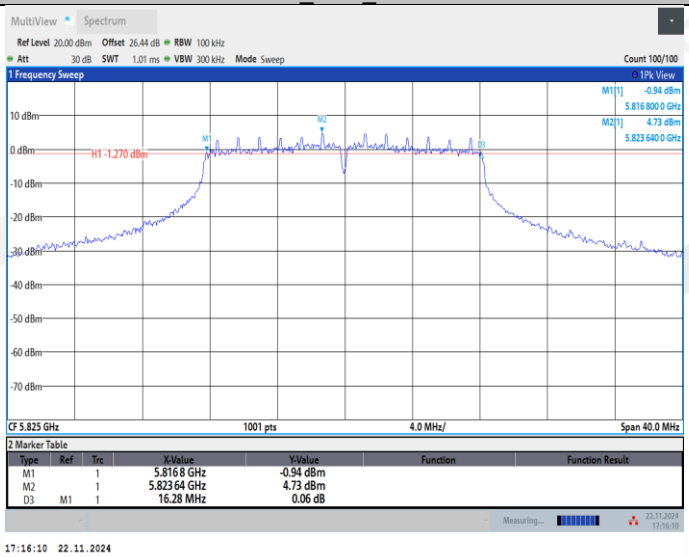

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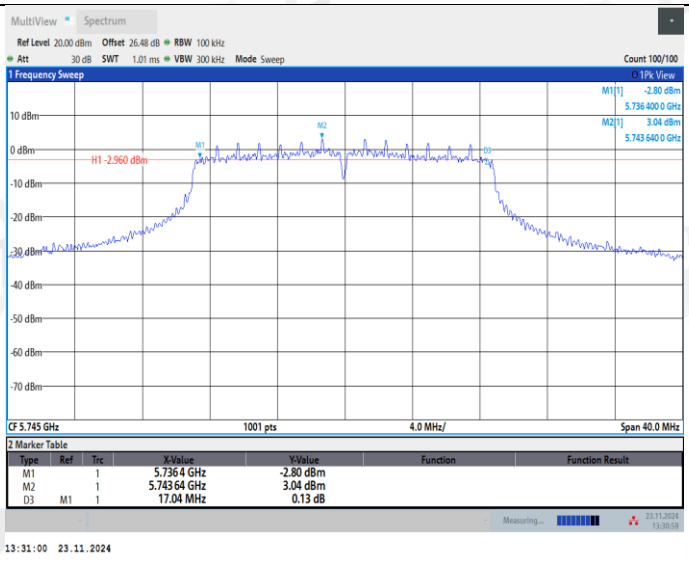

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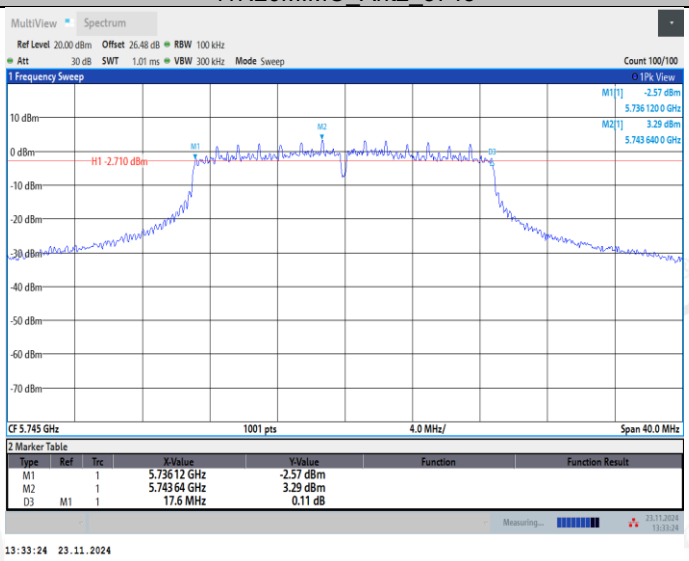

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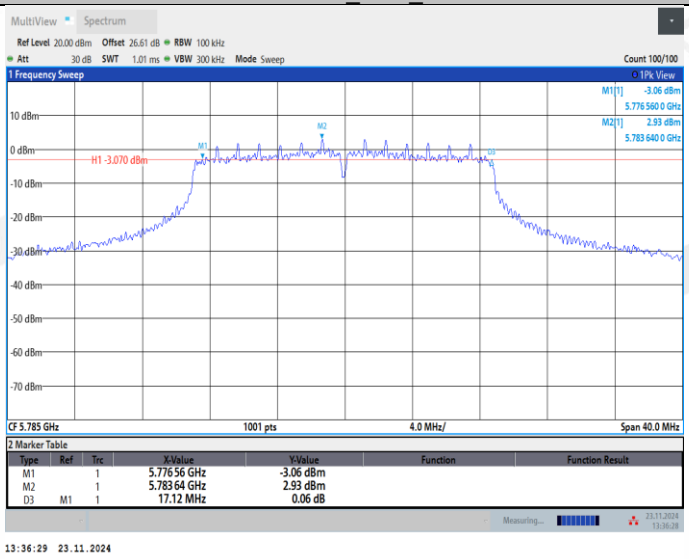

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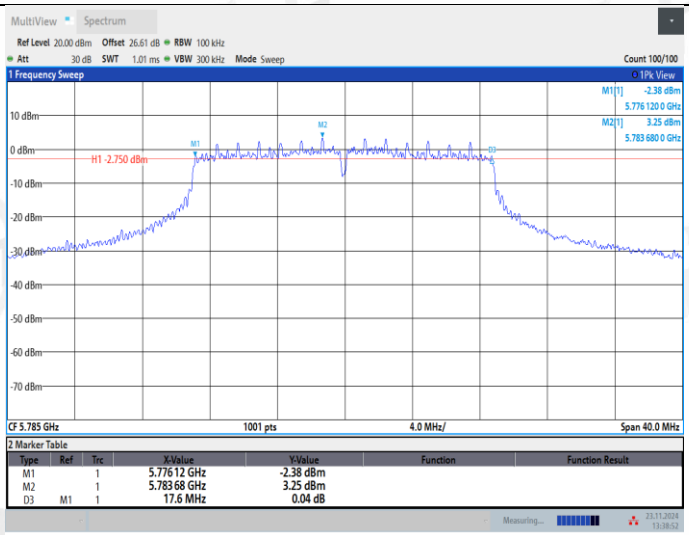

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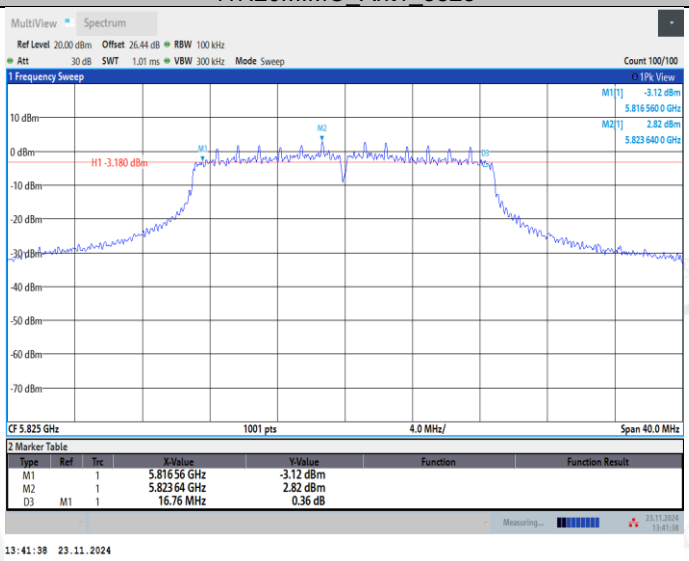

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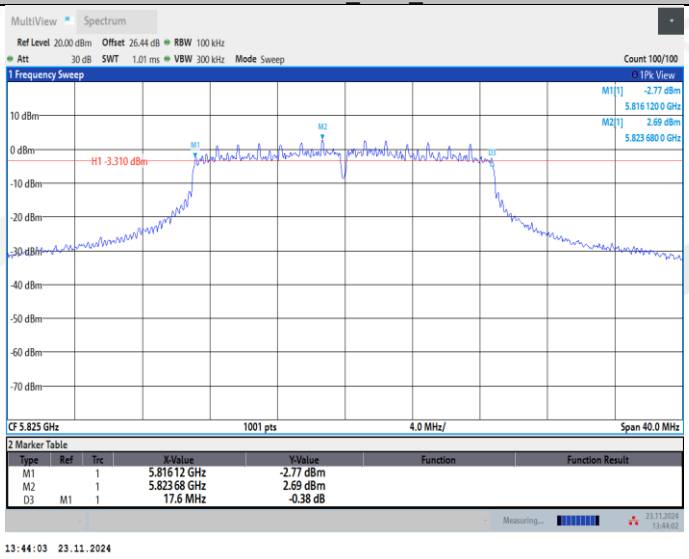

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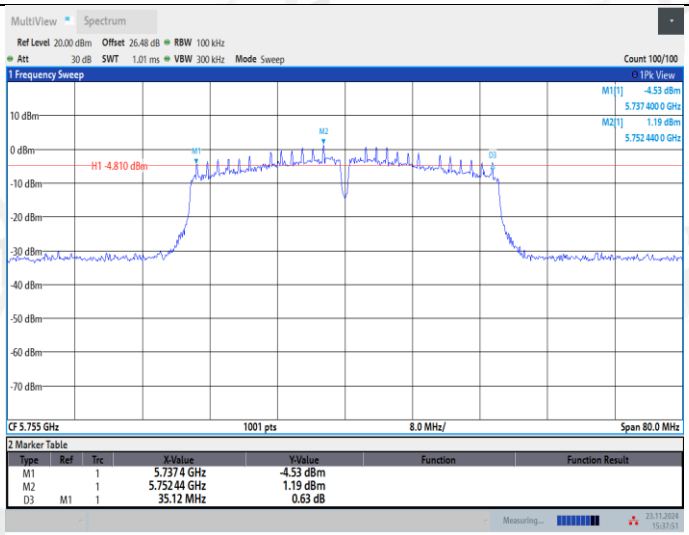

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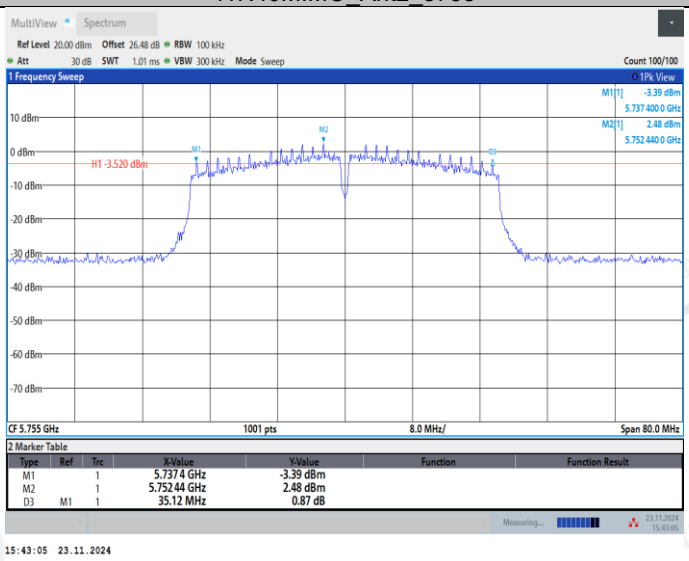

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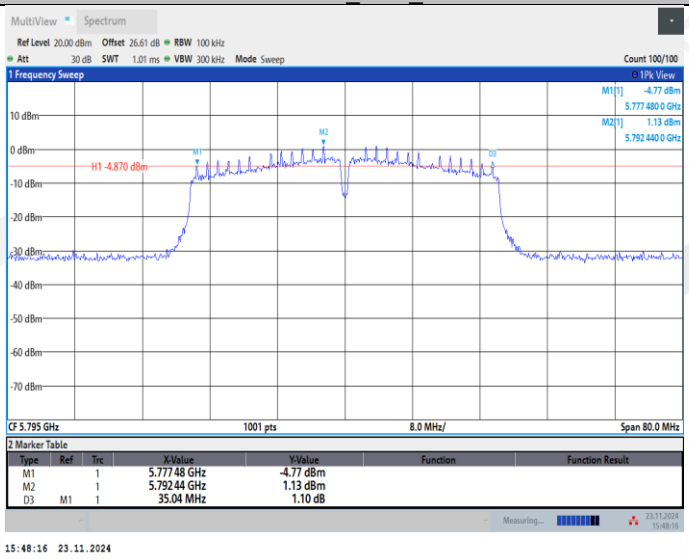

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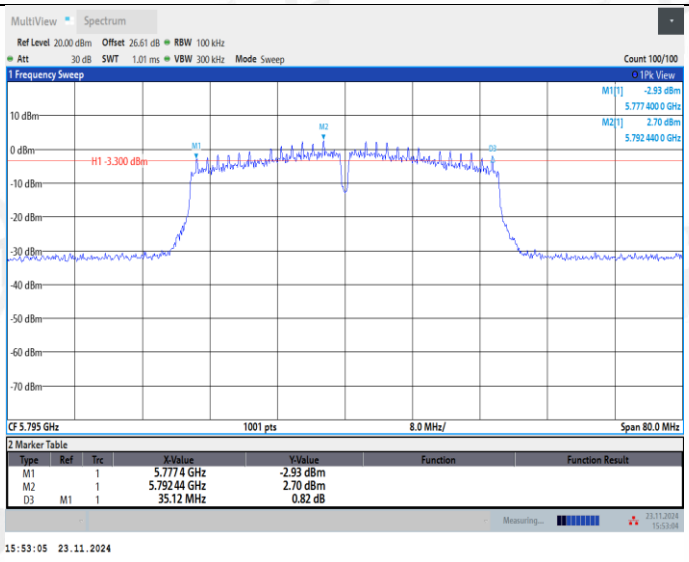

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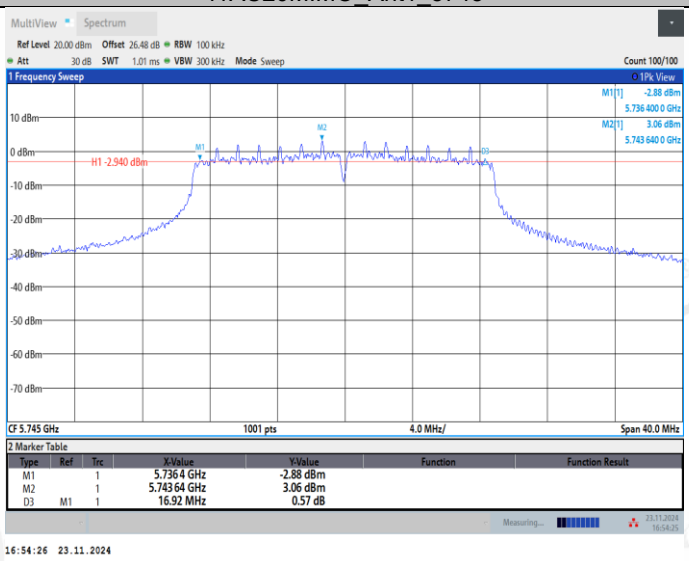

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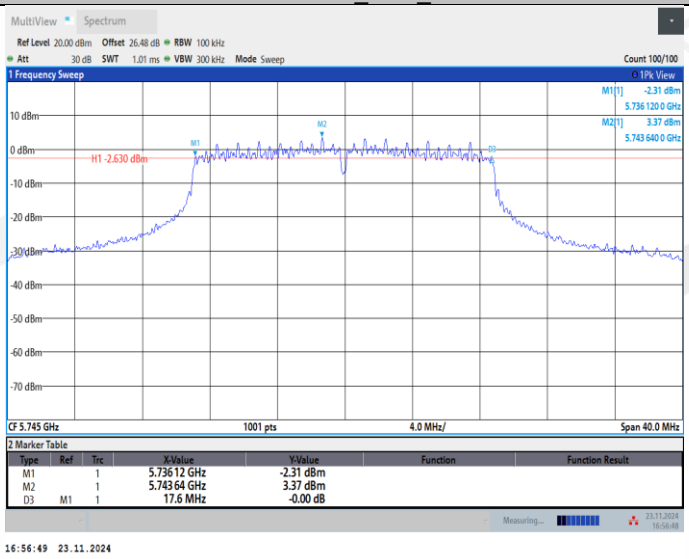

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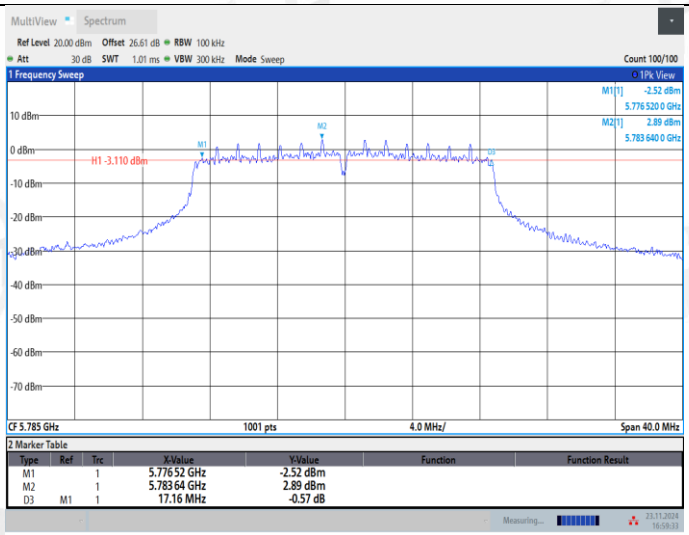

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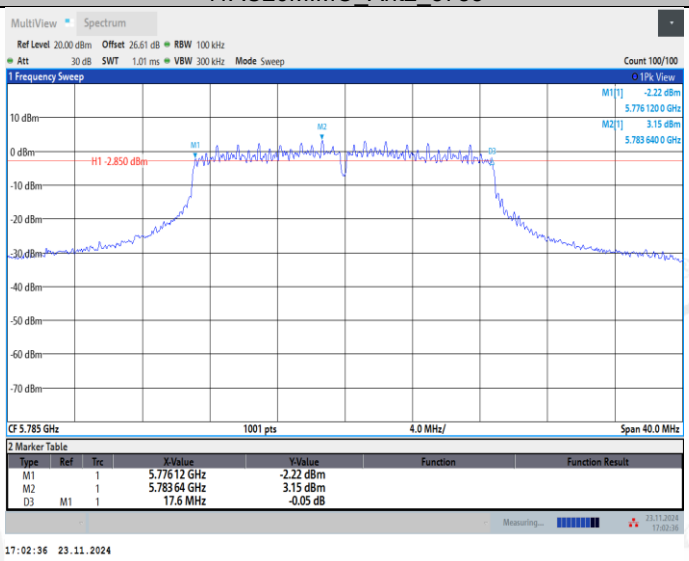

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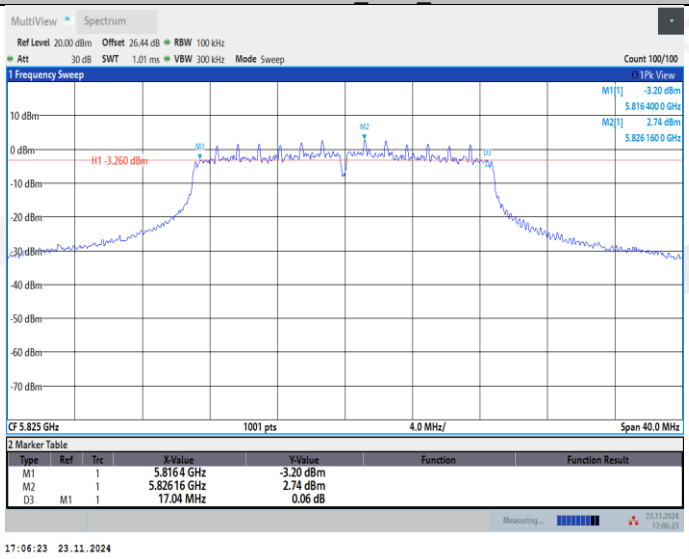

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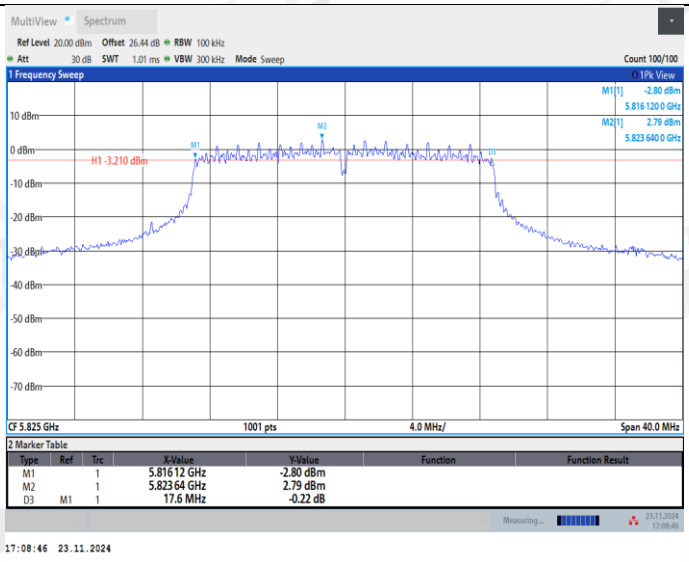

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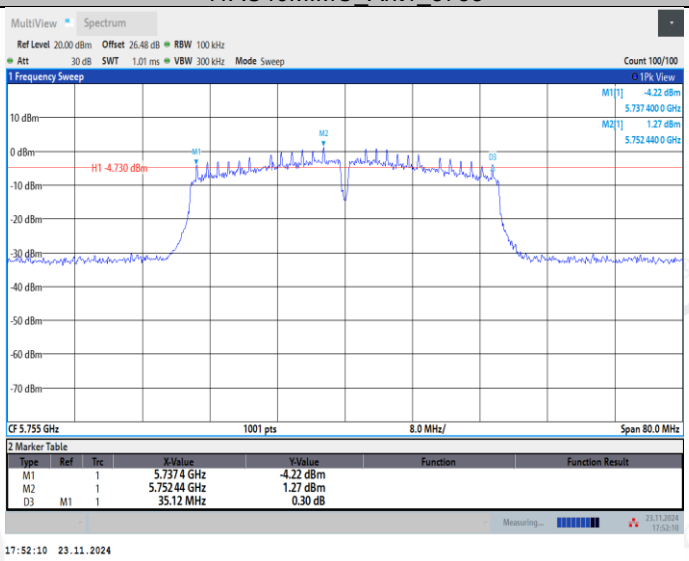

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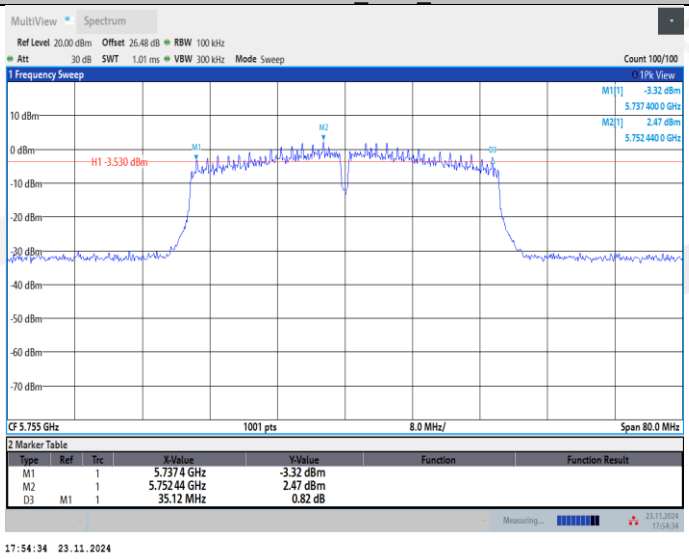

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