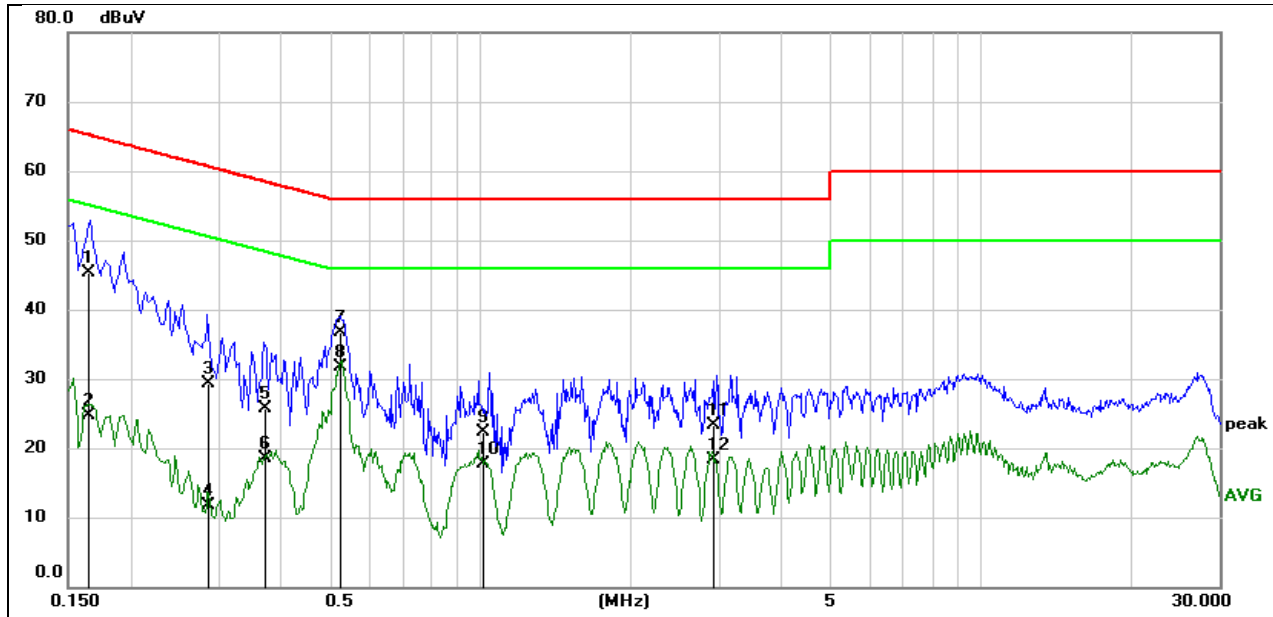


Test Mode:	802.11n HT40	Frequency(MHz):	5190
Line	N	Test Voltage	AC 120 V, 60 Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1650	35.75	9.59	45.34	65.21	-19.87	QP
2	0.1650	15.21	9.59	24.80	55.21	-30.41	AVG
3	0.2875	19.79	9.59	29.38	60.60	-31.22	QP
4	0.2875	2.09	9.59	11.68	50.60	-38.92	AVG
5	0.3727	16.09	9.59	25.68	58.44	-32.76	QP
6	0.3727	8.93	9.59	18.52	48.44	-29.92	AVG
7	0.5280	27.04	9.60	36.64	56.00	-19.36	QP
8	0.5280	22.06	9.60	31.66	46.00	-14.34	AVG
9	1.0217	12.73	9.61	22.34	56.00	-33.66	QP
10	1.0217	8.15	9.61	17.76	46.00	-28.24	AVG
11	2.9278	13.65	9.67	23.32	56.00	-32.68	QP
12	2.9278	8.67	9.67	18.34	46.00	-27.66	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.407(a)

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. In addition, the maximum power spectral density shall not exceed 17 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.

DESCRIPTION

Pass

11. TEST DATA

11.1. APPENDIX A: EMISSION BANDWIDTH

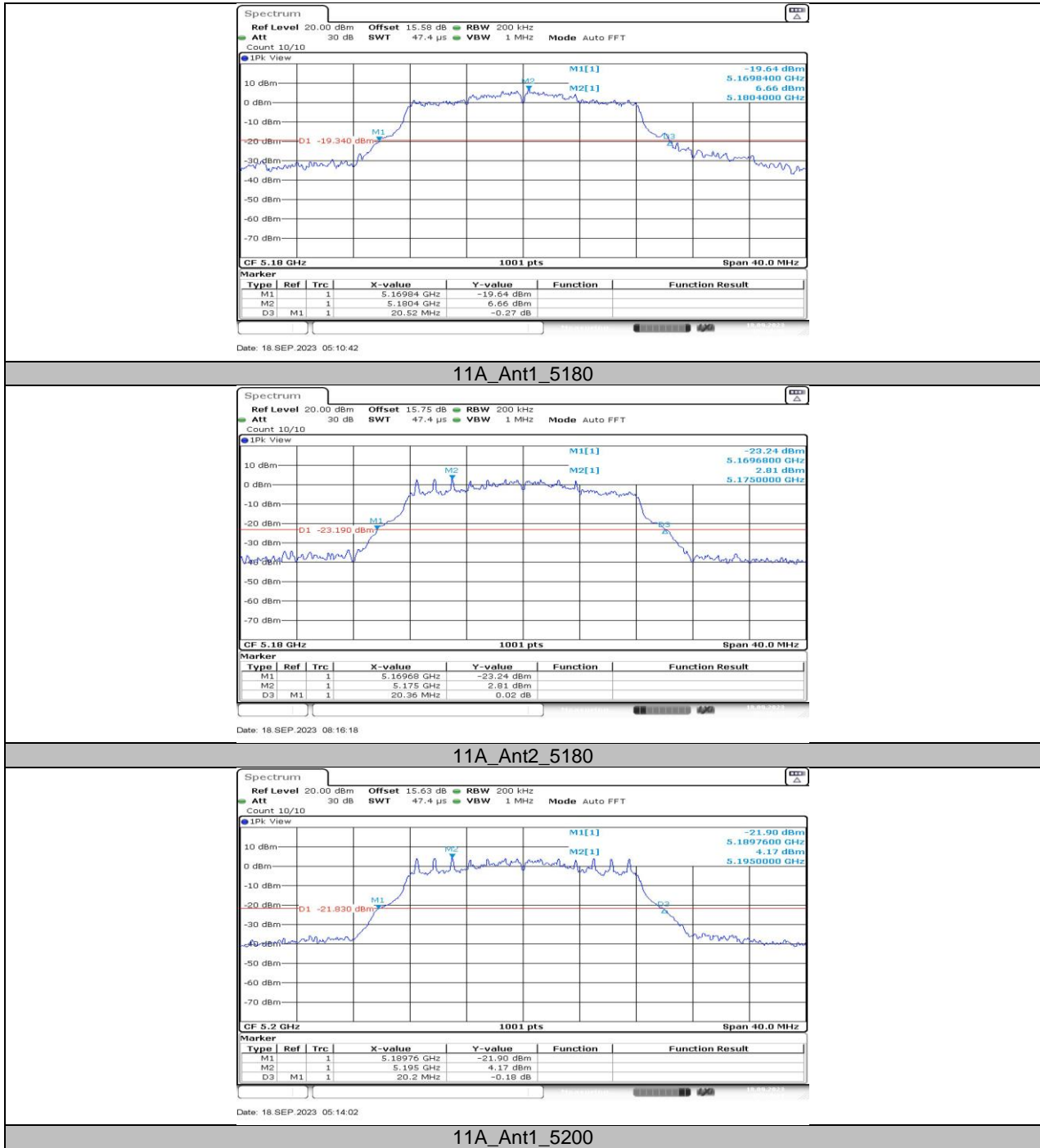
11.1.1. Test Result

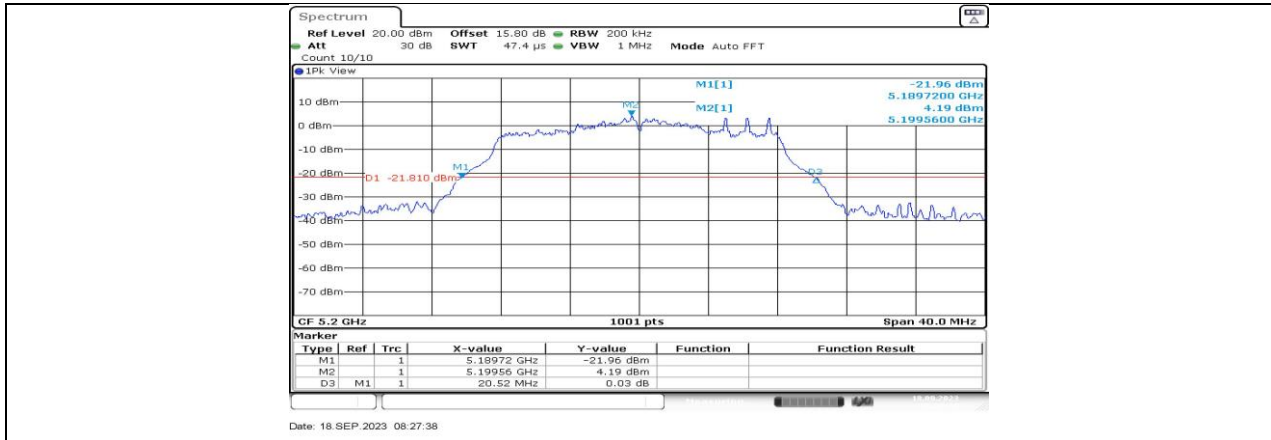
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict	
11A	Ant1	5180	20.52	5169.84	5190.36	PASS	
	Ant2	5180	20.36	5169.68	5190.04	PASS	
	Ant1	5200	20.20	5189.76	5209.96	PASS	
	Ant2	5200	20.52	5189.72	5210.24	PASS	
	Ant1	5240	20.16	5230.12	5250.28	PASS	
	Ant2	5240	20.64	5229.84	5250.48	PASS	
	Ant1	5260	20.28	5249.64	5269.92	PASS	
	Ant2	5260	20.84	5249.68	5270.52	PASS	
	Ant1	5280	20.20	5269.96	5290.16	PASS	
	Ant2	5280	20.64	5269.52	5290.16	PASS	
	Ant1	5320	19.92	5310.00	5329.92	PASS	
	Ant2	5320	20.36	5309.64	5330.00	PASS	
	Ant1	5500	19.92	5489.96	5509.88	PASS	
	Ant2	5500	21.40	5489.44	5510.84	PASS	
	Ant1	5580	20.24	5569.72	5589.96	PASS	
	Ant2	5580	20.32	5569.76	5590.08	PASS	
	Ant1	5700	20.04	5690.04	5710.08	PASS	
	Ant2	5700	20.64	5689.64	5710.28	PASS	
	Ant1	5720	20.52	5709.60	5730.12	PASS	
	Ant2	5720	20.96	5709.56	5730.52	PASS	
	Ant1	5720_UNII-2C	15.4	5709.60	5725	PASS	
	Ant2	5720_UNII-2C	15.44	5709.56	5725	PASS	
	Ant1	5720_UNII-3	5.12	5725	5730.12	PASS	
	Ant2	5720_UNII-3	5.52	5725	5730.52	PASS	
	Ant1	5745	20.84	5734.44	5755.28	PASS	
	Ant2	5745	20.48	5734.56	5755.04	PASS	
	Ant1	5785	20.24	5774.72	5794.96	PASS	
	Ant2	5785	20.60	5774.72	5795.32	PASS	
	Ant1	5825	20.96	5814.56	5835.52	PASS	
	Ant2	5825	20.48	5814.68	5835.16	PASS	
	11N20MIMO	Ant1	5180	25.36	5169.72	5195.08	PASS
		Ant2	5180	20.64	5169.80	5190.44	PASS
Ant1		5200	20.60	5189.80	5210.40	PASS	
Ant2		5200	20.32	5189.76	5210.08	PASS	
Ant1		5240	20.76	5229.48	5250.24	PASS	
Ant2		5240	20.92	5229.52	5250.44	PASS	
Ant1		5260	21.00	5249.52	5270.52	PASS	
Ant2		5260	20.68	5249.80	5270.48	PASS	
Ant1		5280	20.76	5269.68	5290.44	PASS	
Ant2		5280	20.60	5269.84	5290.44	PASS	
Ant1		5320	20.60	5309.72	5330.32	PASS	
Ant2		5320	20.72	5309.52	5330.24	PASS	
Ant1		5500	20.44	5489.80	5510.24	PASS	
Ant2		5500	20.68	5489.64	5510.32	PASS	
Ant1		5580	20.56	5569.76	5590.32	PASS	
Ant2		5580	20.24	5569.76	5590.00	PASS	
Ant1		5700	20.84	5689.60	5710.44	PASS	
Ant2		5700	20.40	5689.72	5710.12	PASS	
Ant1		5720	20.40	5709.76	5730.16	PASS	
Ant2		5720	20.64	5709.84	5730.48	PASS	
Ant1		5720_UNII-2C	15.24	5709.76	5725	PASS	
Ant2		5720_UNII-2C	15.16	5709.84	5725	PASS	
Ant1		5720_UNII-3	5.16	5725	5730.16	PASS	
Ant2		5720_UNII-3	5.48	5725	5730.48	PASS	
Ant1		5745	21.08	5734.64	5755.72	PASS	
Ant2		5745	20.40	5734.80	5755.20	PASS	

	Ant1	5785	21.44	5774.20	5795.64	PASS
	Ant2	5785	20.92	5774.52	5795.44	PASS
	Ant1	5825	21.52	5814.20	5835.72	PASS
	Ant2	5825	21.04	5814.68	5835.72	PASS
11N40MIMO	Ant1	5190	40.56	5169.68	5210.24	PASS
	Ant2	5190	39.92	5170.08	5210.00	PASS
	Ant1	5230	40.32	5209.84	5250.16	PASS
	Ant2	5230	39.76	5210.24	5250.00	PASS
	Ant1	5270	40.48	5249.76	5290.24	PASS
	Ant2	5270	39.84	5250.24	5290.08	PASS
	Ant1	5310	40.48	5289.68	5330.16	PASS
	Ant2	5310	39.92	5290.16	5330.08	PASS
	Ant1	5510	40.48	5489.84	5530.32	PASS
	Ant2	5510	40.00	5490.08	5530.08	PASS
	Ant1	5550	39.84	5530.16	5570.00	PASS
	Ant2	5550	40.32	5529.92	5570.24	PASS
	Ant1	5670	40.16	5650.00	5690.16	PASS
	Ant2	5670	40.56	5649.84	5690.40	PASS
	Ant1	5710	40.00	5690.08	5730.08	PASS
	Ant2	5710	40.48	5689.84	5730.32	PASS
	Ant1	5710_UNII-2C	34.92	5690.08	5725	PASS
	Ant2	5710_UNII-2C	35.16	5689.84	5725	PASS
	Ant1	5710_UNII-3	5.08	5725	5730.08	PASS
	Ant2	5710_UNII-3	5.32	5725	5730.32	PASS
	Ant1	5755	39.92	5735.00	5774.92	PASS
	Ant2	5755	40.64	5734.60	5775.24	PASS
	Ant1	5795	40.72	5774.76	5815.48	PASS
	Ant2	5795	39.92	5775.16	5815.08	PASS
11AC80MIMO	Ant1	5210	82.08	5168.88	5250.96	PASS
	Ant2	5210	82.24	5169.04	5251.28	PASS
	Ant1	5290	82.24	5248.88	5331.12	PASS
	Ant2	5290	82.24	5249.04	5331.28	PASS
	Ant1	5530	82.40	5489.20	5571.60	PASS
	Ant2	5530	81.76	5489.36	5571.12	PASS
	Ant1	5610	82.24	5568.88	5651.12	PASS
	Ant2	5610	82.24	5568.88	5651.12	PASS
	Ant1	5690	82.40	5649.04	5731.44	PASS
	Ant2	5690	82.88	5648.72	5731.60	PASS
	Ant1	5690_UNII-2C	75.96	5649.04	5725	PASS
	Ant2	5690_UNII-2C	76.28	5648.72	5725	PASS
	Ant1	5690_UNII-3	6.44	5725	5731.44	PASS
	Ant2	5690_UNII-3	6.6	5725	5731.60	PASS
	Ant1	5775	82.56	5733.72	5816.28	PASS
	Ant2	5775	82.72	5733.72	5816.44	PASS
11AX20MIMO	Ant1	5180	21.28	5169.24	5190.52	PASS
	Ant2	5180	21.00	5169.52	5190.52	PASS
	Ant1	5200	21.28	5189.40	5210.68	PASS
	Ant2	5200	21.32	5189.24	5210.56	PASS
	Ant1	5240	21.36	5229.28	5250.64	PASS
	Ant2	5240	21.20	5229.32	5250.52	PASS
	Ant1	5260	21.44	5249.12	5270.56	PASS
	Ant2	5260	21.16	5249.44	5270.60	PASS
	Ant1	5280	21.40	5269.28	5290.68	PASS
	Ant2	5280	21.20	5269.44	5290.64	PASS
	Ant1	5320	21.48	5309.24	5330.72	PASS
	Ant2	5320	21.44	5309.28	5330.72	PASS
	Ant1	5500	21.20	5489.40	5510.60	PASS
	Ant2	5500	21.04	5489.56	5510.60	PASS
	Ant1	5580	21.36	5569.20	5590.56	PASS
	Ant2	5580	21.44	5569.32	5590.76	PASS
	Ant1	5700	21.36	5689.32	5710.68	PASS
	Ant2	5700	21.60	5689.16	5710.76	PASS
Ant1	5720	21.20	5709.32	5730.52	PASS	
Ant2	5720	21.32	5709.48	5730.80	PASS	

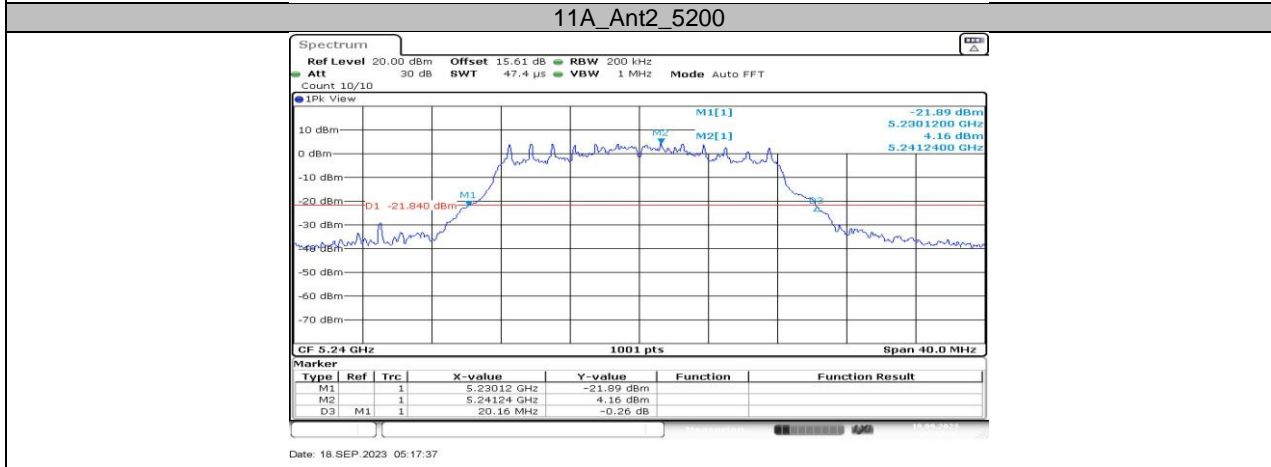
	Ant1	5720_UNII-2C	15.68	5709.32	5725	PASS
	Ant2	5720_UNII-2C	15.52	5709.48	5725	PASS
	Ant1	5720_UNII-3	5.52	5725	5730.52	PASS
	Ant2	5720_UNII-3	5.8	5725	5730.80	PASS
	Ant1	5745	21.32	5734.32	5755.64	PASS
	Ant2	5745	21.32	5734.32	5755.64	PASS
	Ant1	5785	21.48	5774.32	5795.80	PASS
	Ant2	5785	21.40	5774.40	5795.80	PASS
	Ant1	5825	21.20	5814.32	5835.52	PASS
	Ant2	5825	21.08	5814.48	5835.56	PASS
11AX40MIMO	Ant1	5190	40.08	5170.00	5210.08	PASS
	Ant2	5190	40.16	5170.00	5210.16	PASS
	Ant1	5230	40.24	5209.84	5250.08	PASS
	Ant2	5230	40.40	5209.84	5250.24	PASS
	Ant1	5270	40.08	5249.92	5290.00	PASS
	Ant2	5270	40.08	5250.08	5290.16	PASS
	Ant1	5310	40.32	5289.84	5330.16	PASS
	Ant2	5310	39.84	5290.16	5330.00	PASS
	Ant1	5510	40.32	5489.84	5530.16	PASS
	Ant2	5510	40.24	5489.92	5530.16	PASS
	Ant1	5550	40.40	5529.92	5570.32	PASS
	Ant2	5550	40.48	5529.84	5570.32	PASS
	Ant1	5670	40.32	5649.84	5690.16	PASS
	Ant2	5670	40.24	5650.00	5690.24	PASS
	Ant1	5710	40.24	5689.92	5730.16	PASS
	Ant2	5710	40.32	5690.00	5730.32	PASS
	Ant1	5710_UNII-2C	35.08	5689.92	5725	PASS
	Ant2	5710_UNII-2C	35	5690.00	5725	PASS
	Ant1	5710_UNII-3	5.16	5725	5730.16	PASS
	Ant2	5710_UNII-3	5.32	5725	5730.32	PASS
	Ant1	5755	40.24	5734.76	5775.00	PASS
	Ant2	5755	40.16	5735.00	5775.16	PASS
	Ant1	5795	40.08	5774.92	5815.00	PASS
	Ant2	5795	40.16	5774.92	5815.08	PASS
11AX80MIMO	Ant1	5210	81.60	5169.36	5250.96	PASS
	Ant2	5210	82.56	5169.04	5251.60	PASS
	Ant1	5290	81.92	5249.20	5331.12	PASS
	Ant2	5290	81.92	5249.04	5330.96	PASS
	Ant1	5530	81.76	5489.20	5570.96	PASS
	Ant2	5530	82.08	5489.04	5571.12	PASS
	Ant1	5610	81.76	5569.04	5650.80	PASS
	Ant2	5610	81.92	5569.20	5651.12	PASS
	Ant1	5690	82.40	5649.04	5731.44	PASS
	Ant2	5690	82.40	5649.20	5731.60	PASS
	Ant1	5690_UNII-2C	75.96	5649.04	5725	PASS
	Ant2	5690_UNII-2C	75.8	5649.20	5725	PASS
	Ant1	5690_UNII-3	6.44	5725	5731.44	PASS
	Ant2	5690_UNII-3	6.6	5725	5731.60	PASS
	Ant1	5775	82.08	5734.20	5816.28	PASS
	Ant2	5775	82.08	5733.88	5815.96	PASS

11.1.2. Test Graphs

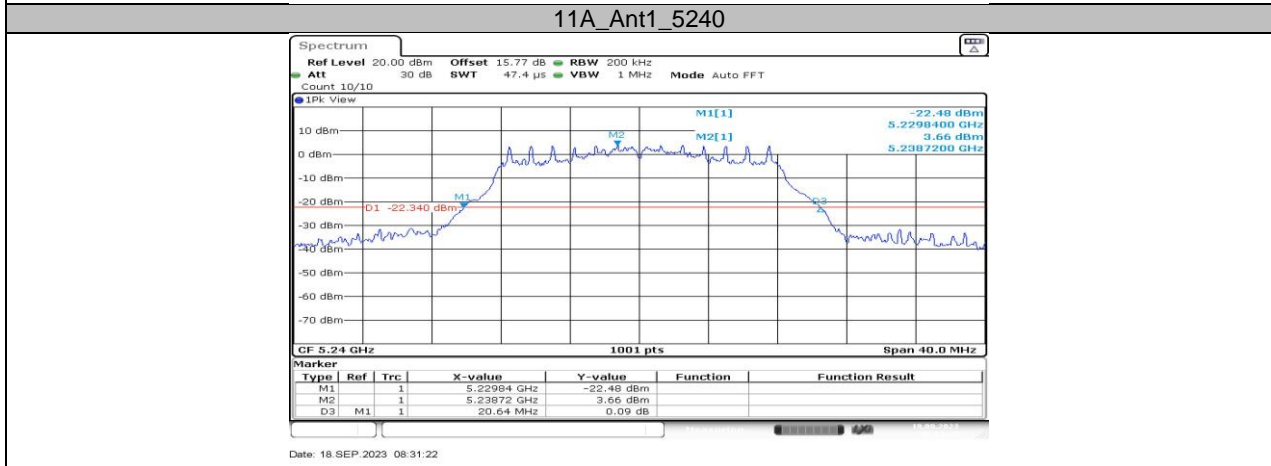




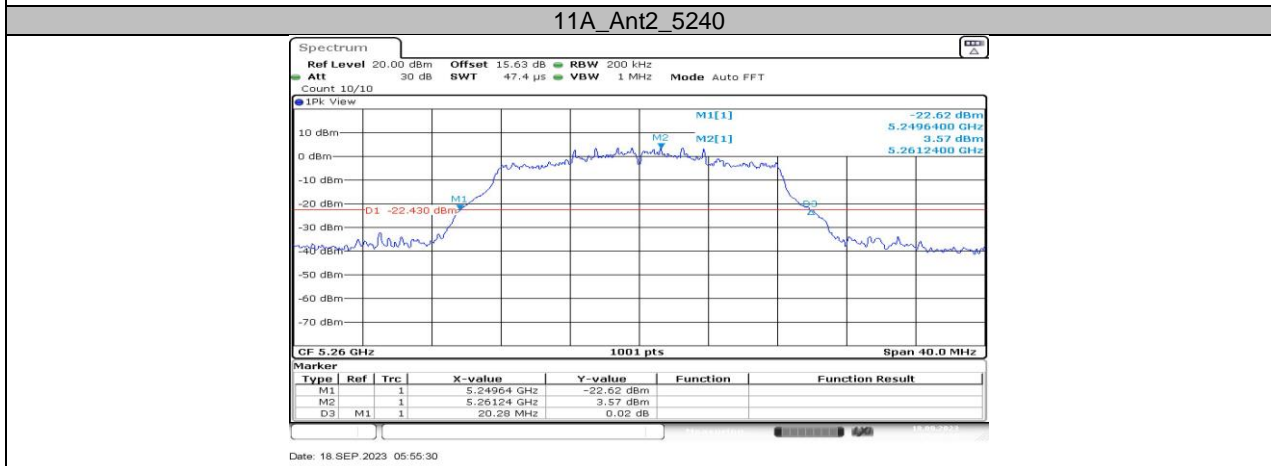
Date: 18.SEP.2023 08:27:38



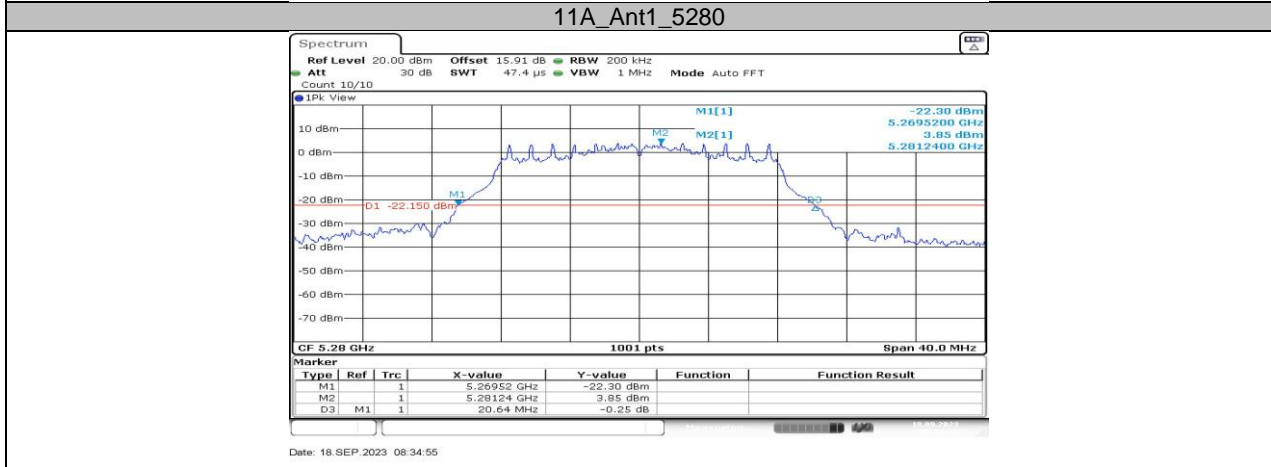
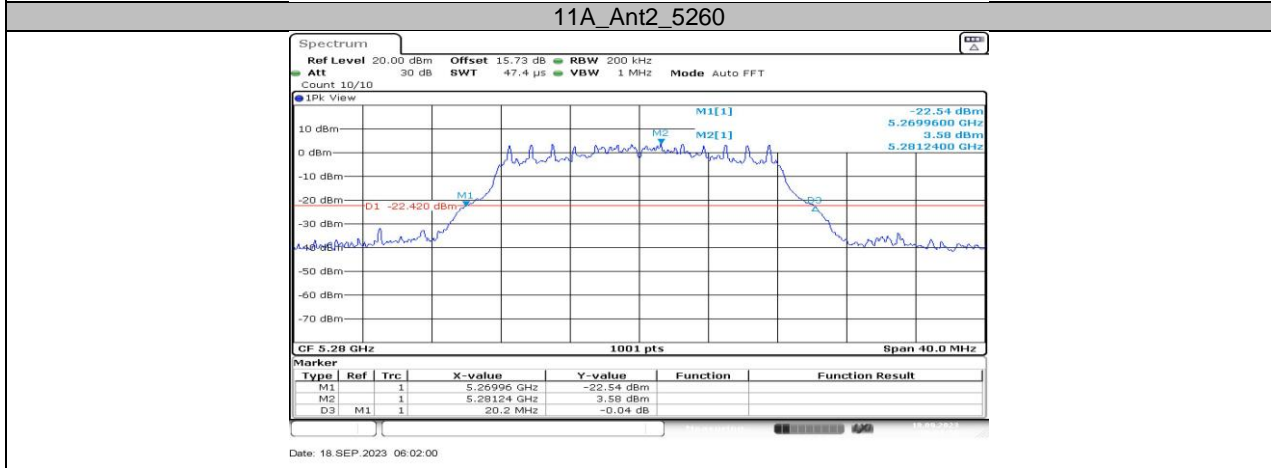
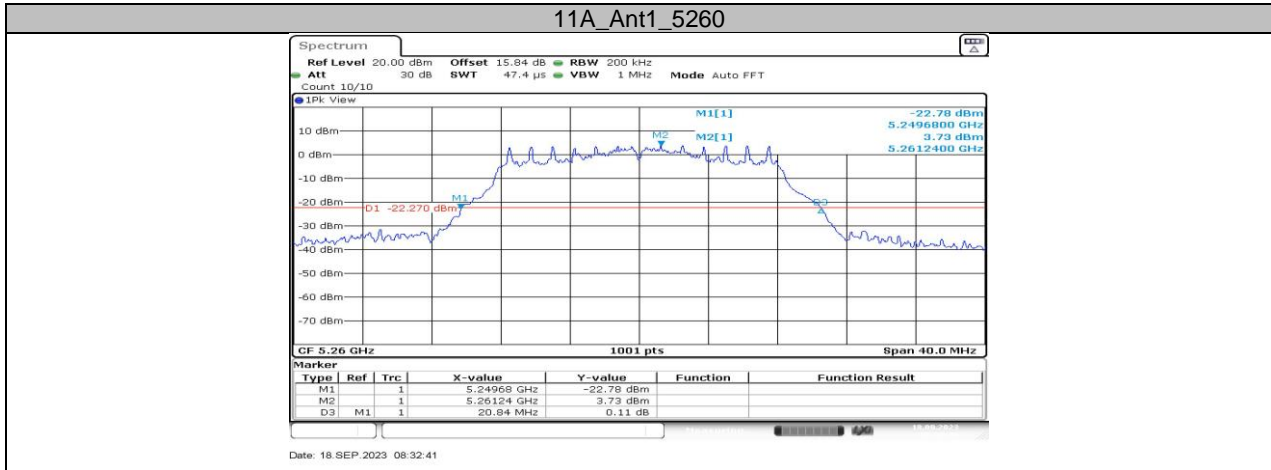
Date: 18.SEP.2023 05:17:37



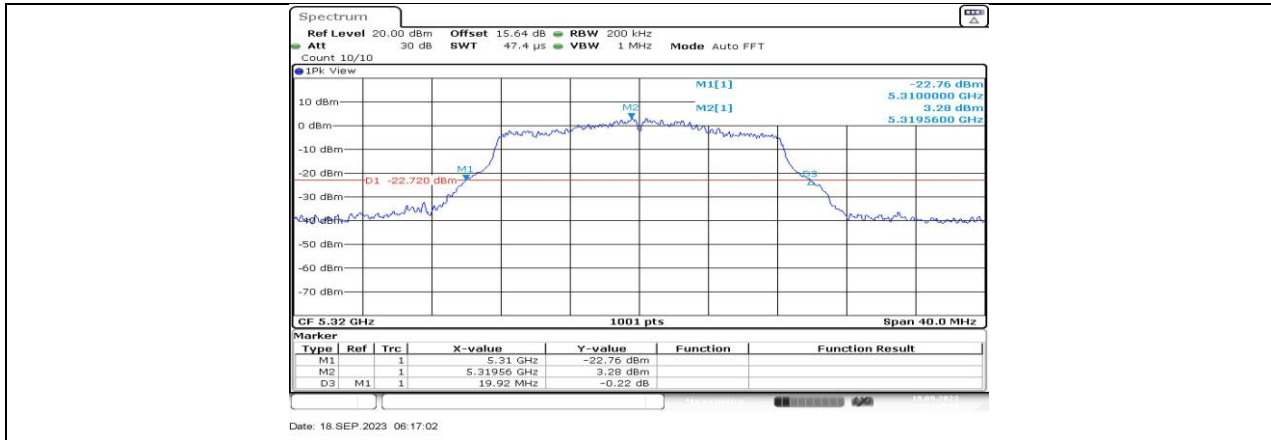
Date: 18.SEP.2023 08:31:22



Date: 18.SEP.2023 05:55:30



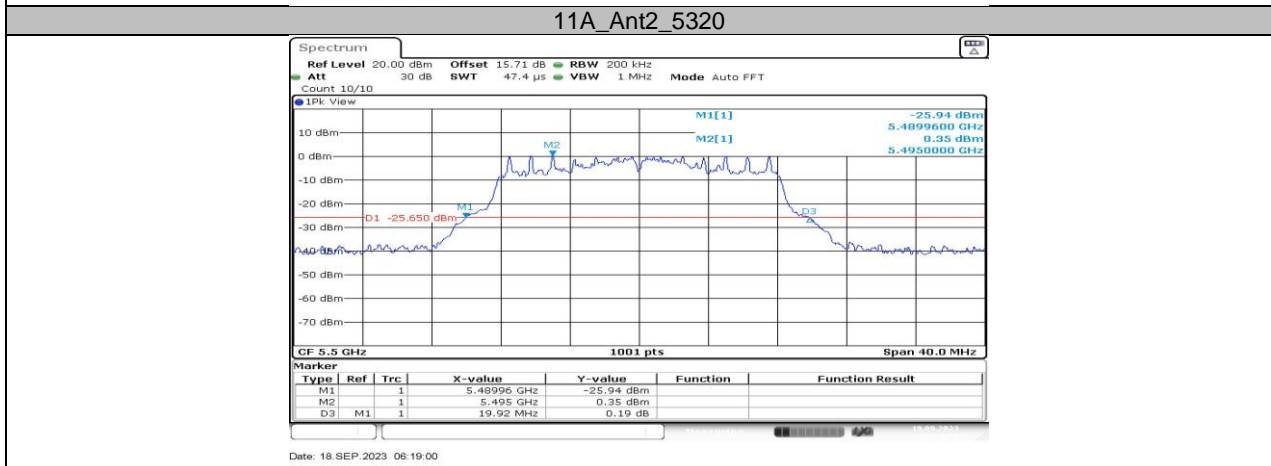
11A_Ant2_5280



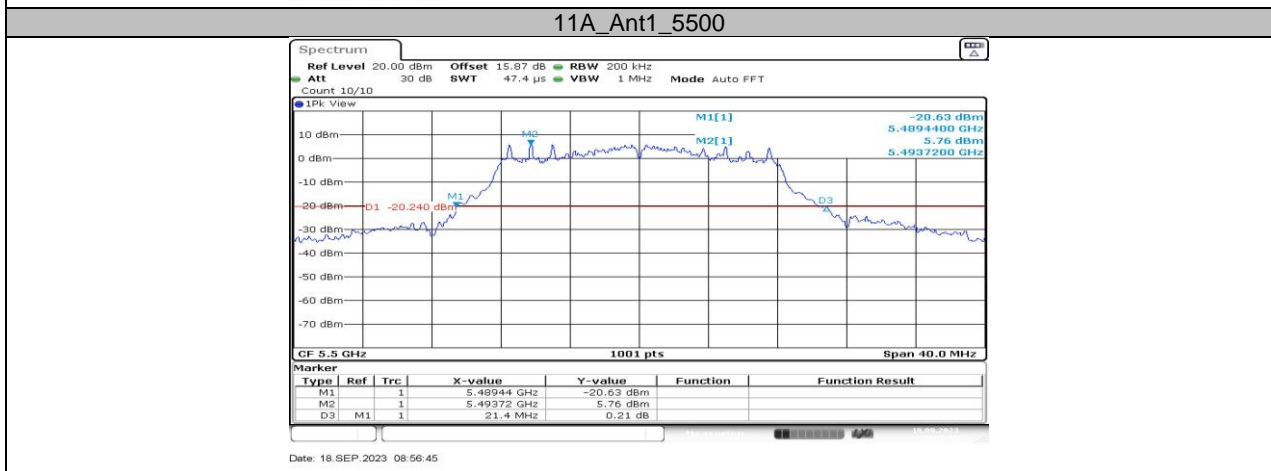
Date: 18.SEP.2023 06:17:02



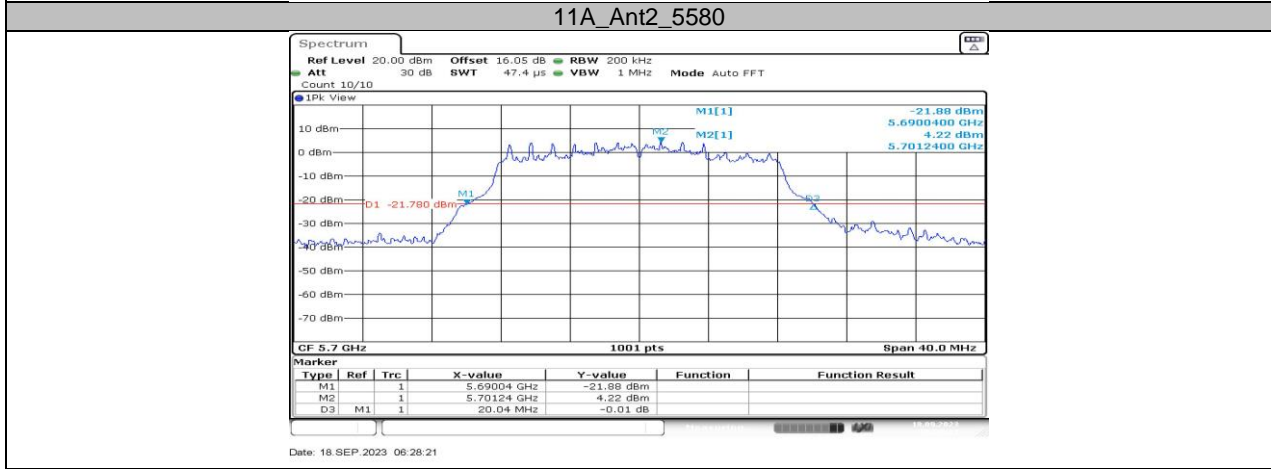
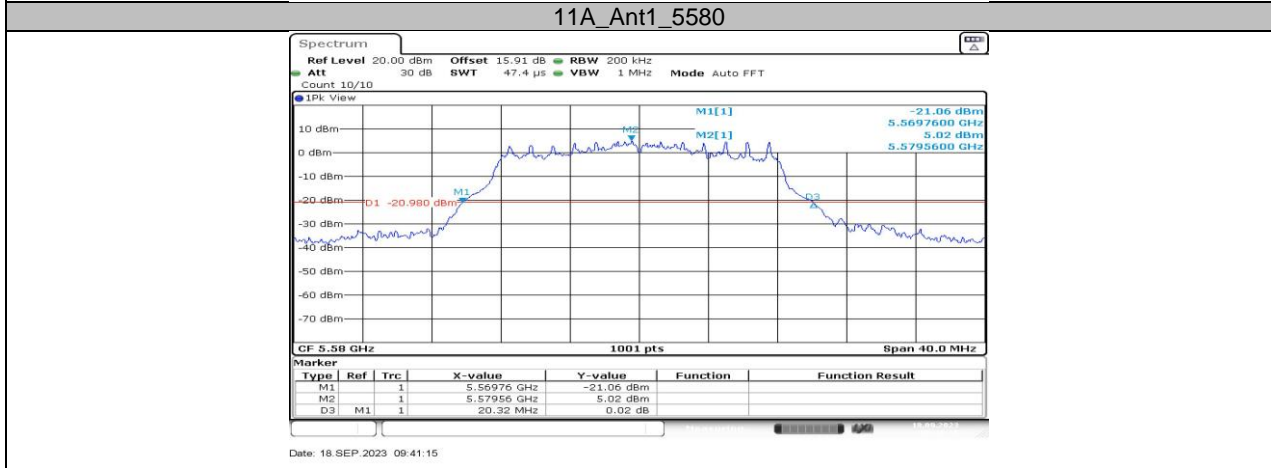
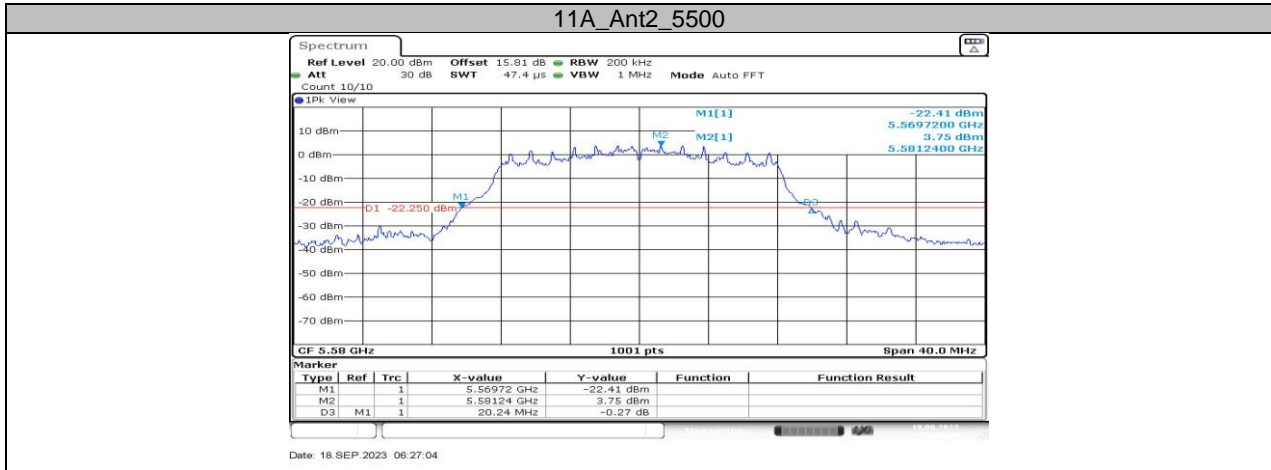
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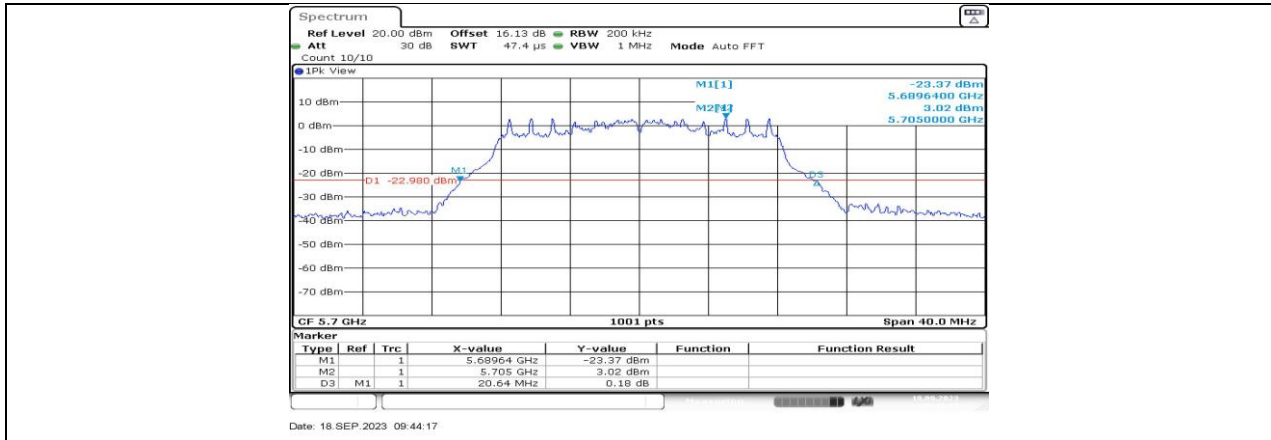
Date: 18.SEP.2023 06:19:00



Date: 18.SEP.2023 08:56:45

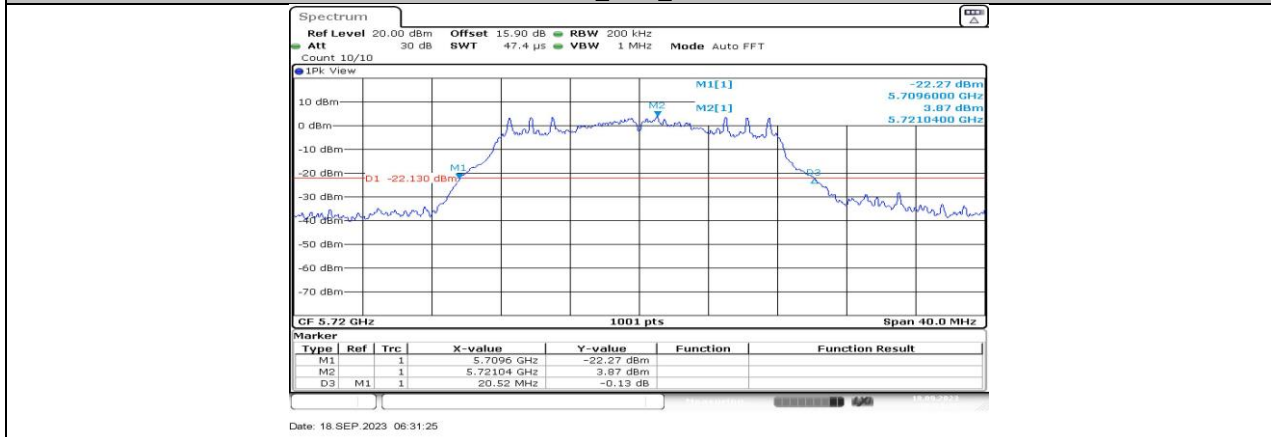


11A_Ant1_5700



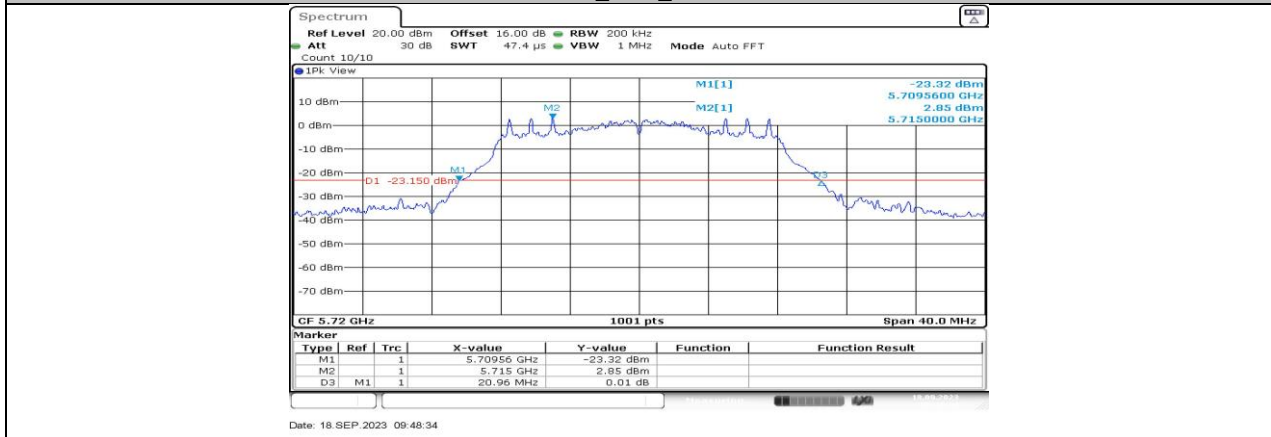
Date: 18.SEP.2023 09:44:17

11A_Ant2_5700



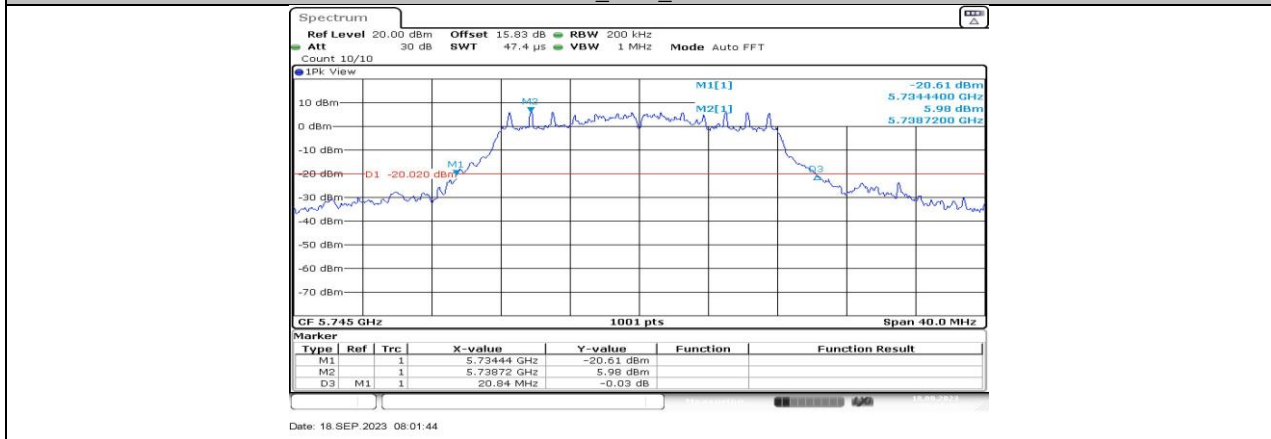
Date: 18.SEP.2023 06:31:25

11A_Ant1_5720

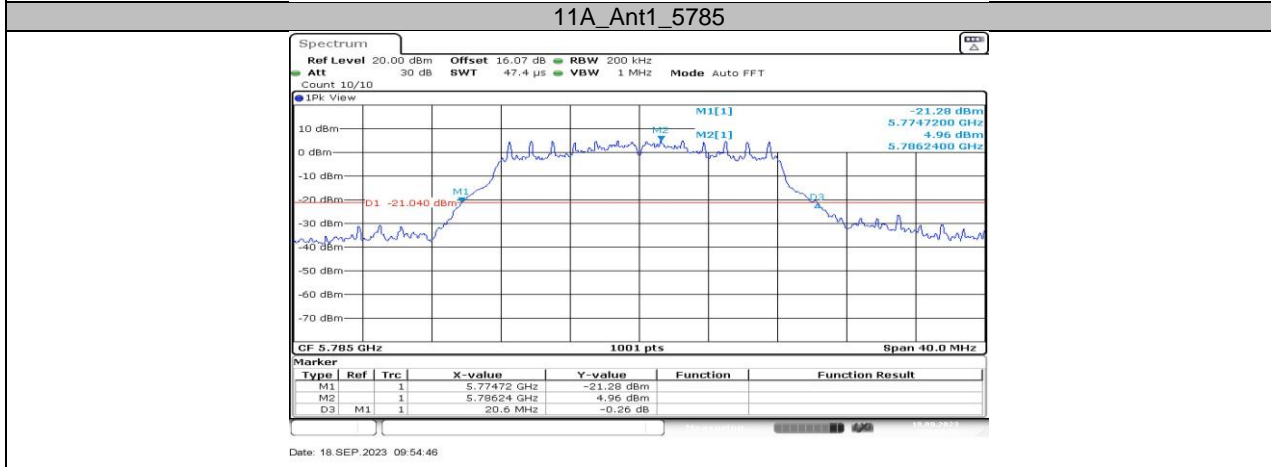
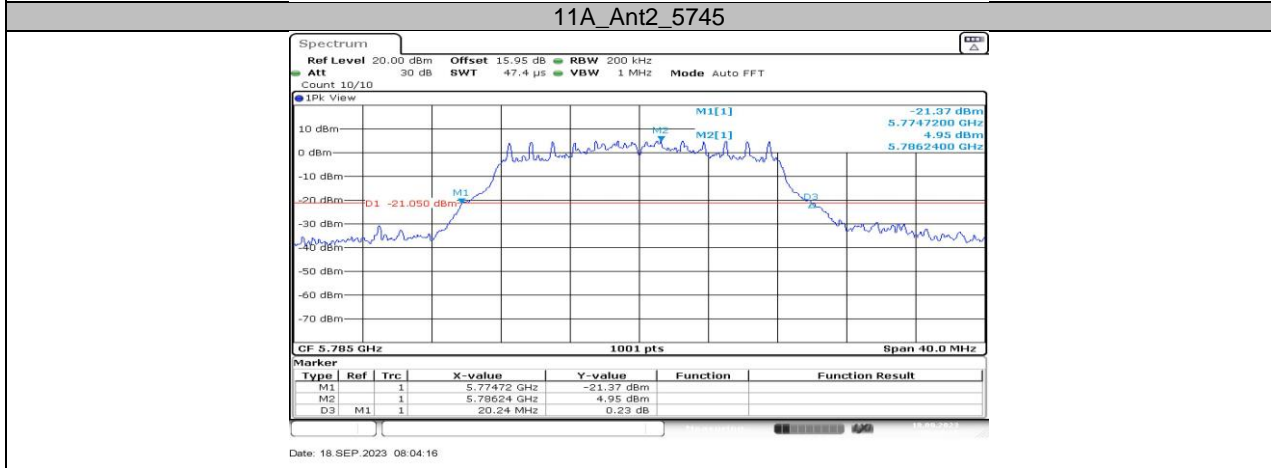
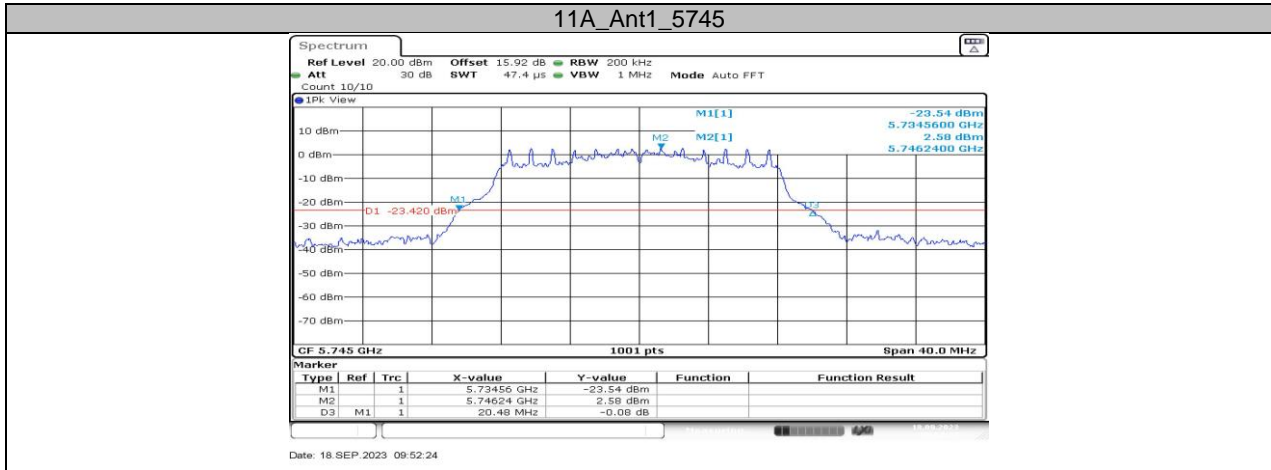


Date: 18.SEP.2023 09:48:34

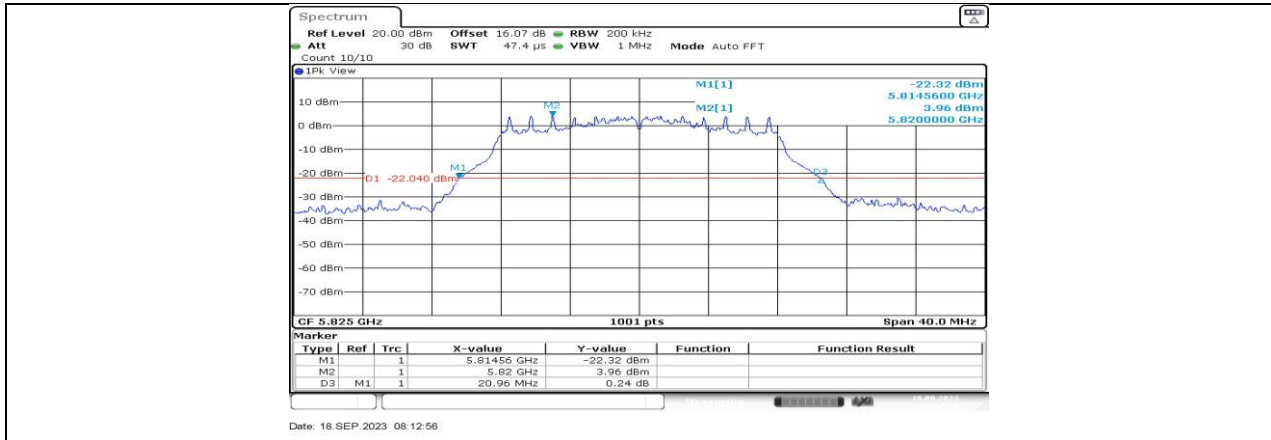
11A_Ant2_5720



Date: 18.SEP.2023 08:01:44

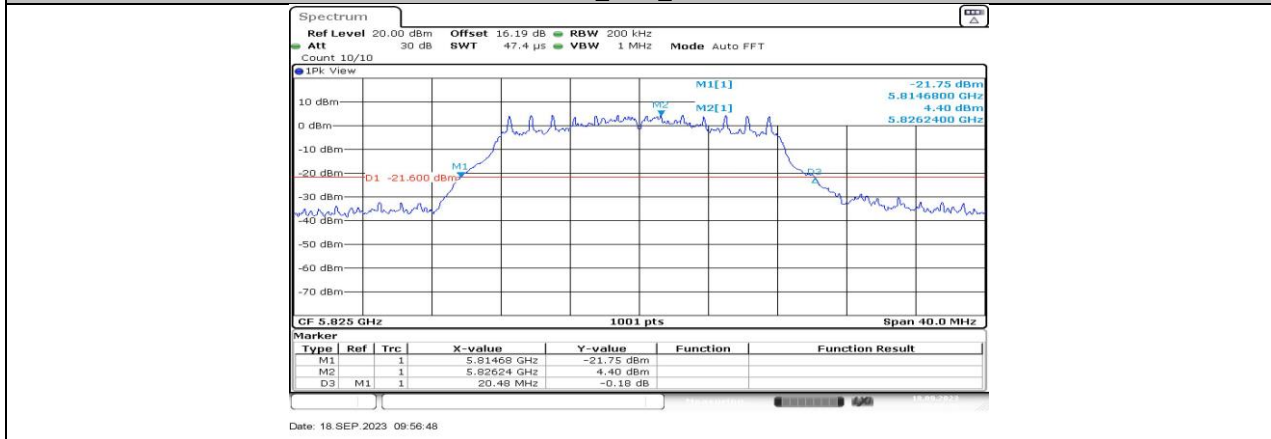


11A_Ant2_5785



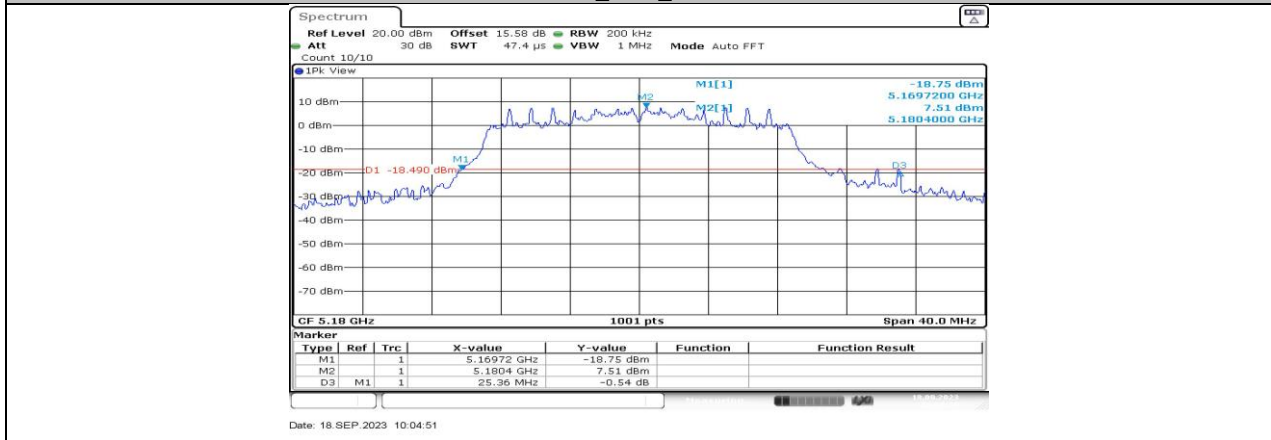
Date: 18.SEP.2023 08:12:56

11A_Ant1_5825



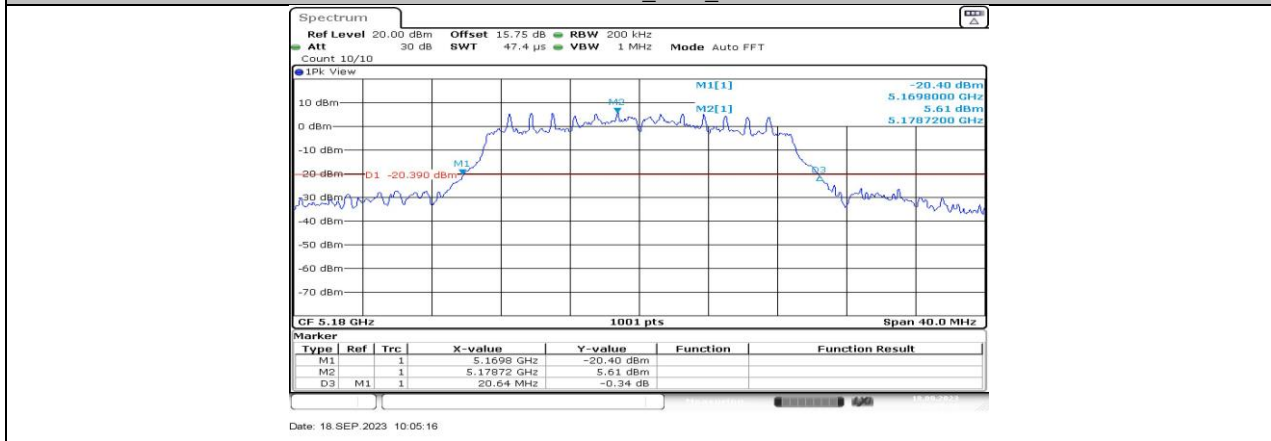
Date: 18.SEP.2023 09:56:48

11A_Ant2_5825

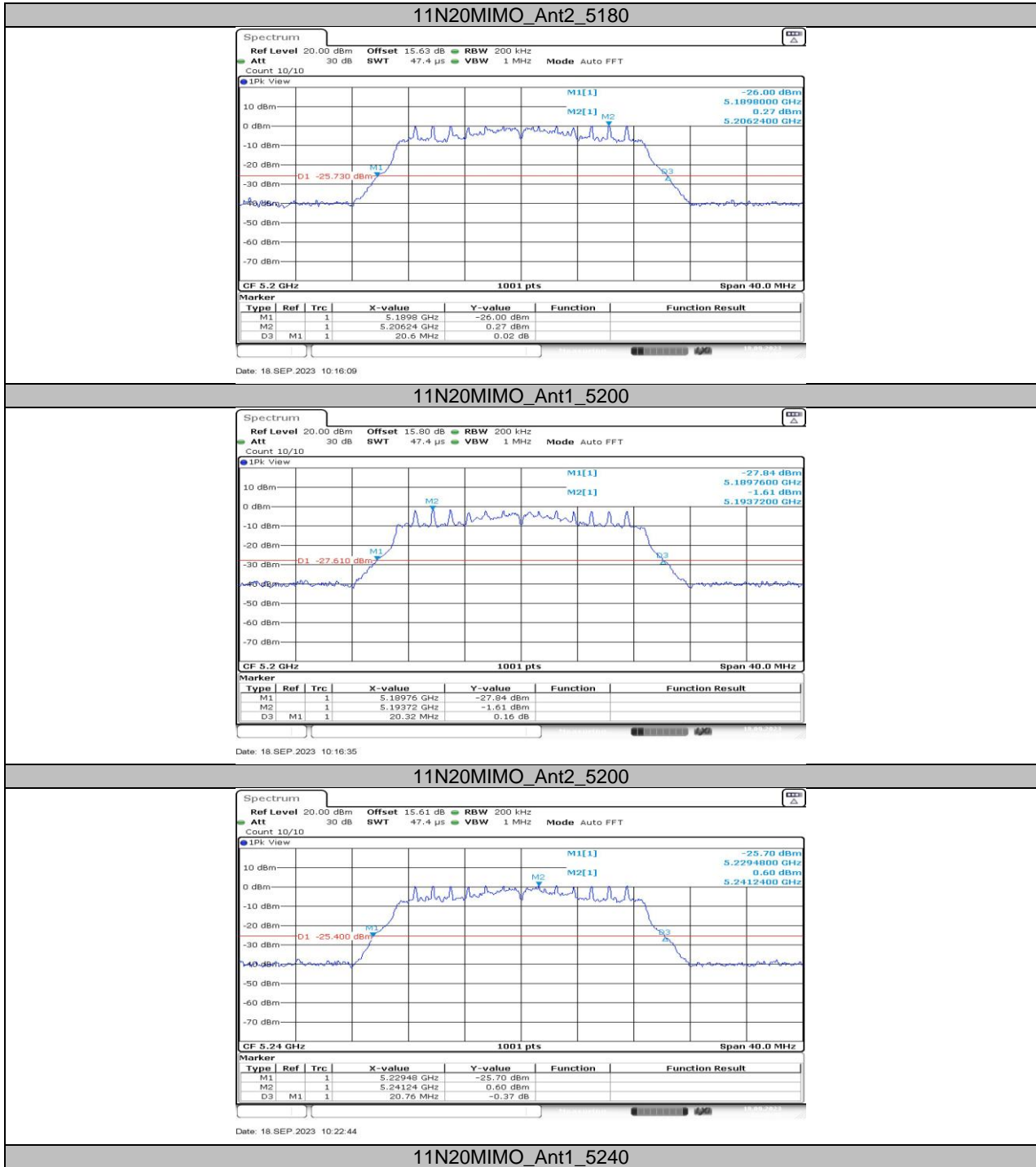


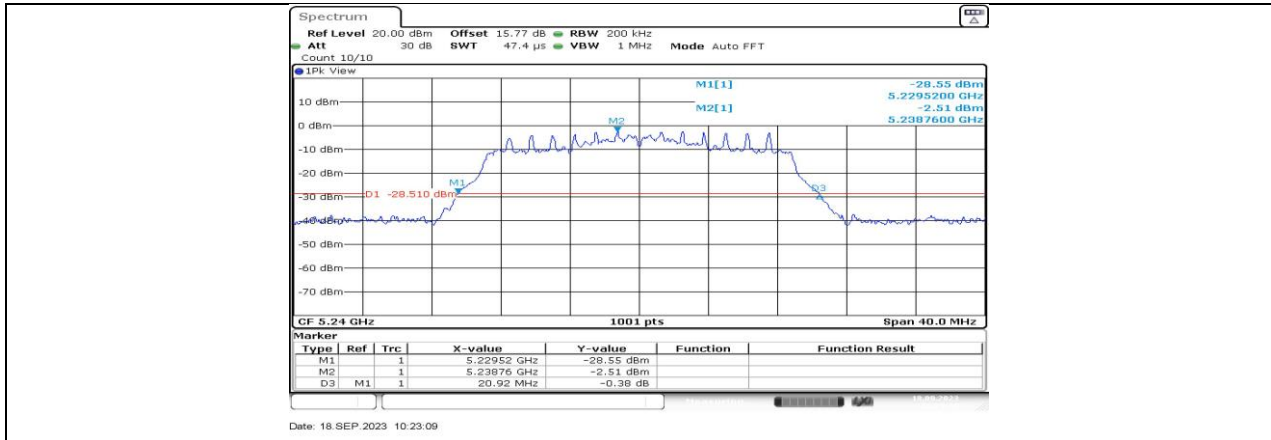
Date: 18.SEP.2023 10:04:51

11N20MIMO_Ant1_5180



Date: 18.SEP.2023 10:05:18

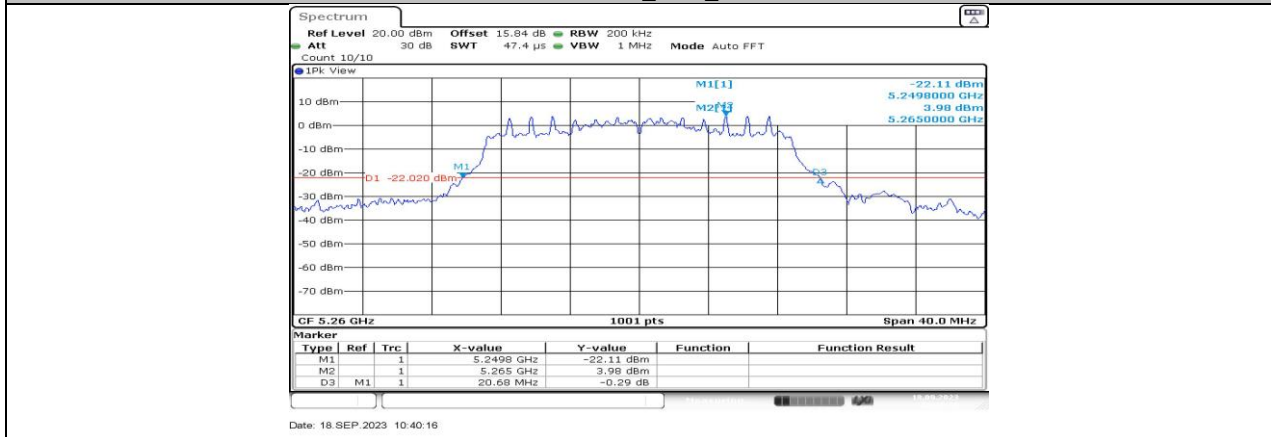




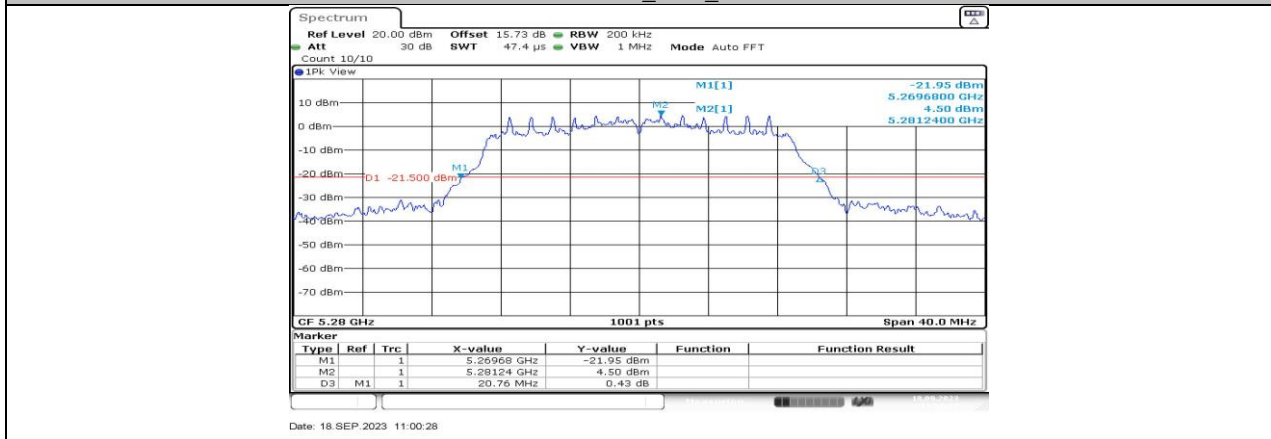
11N20MIMO_Ant2_5240

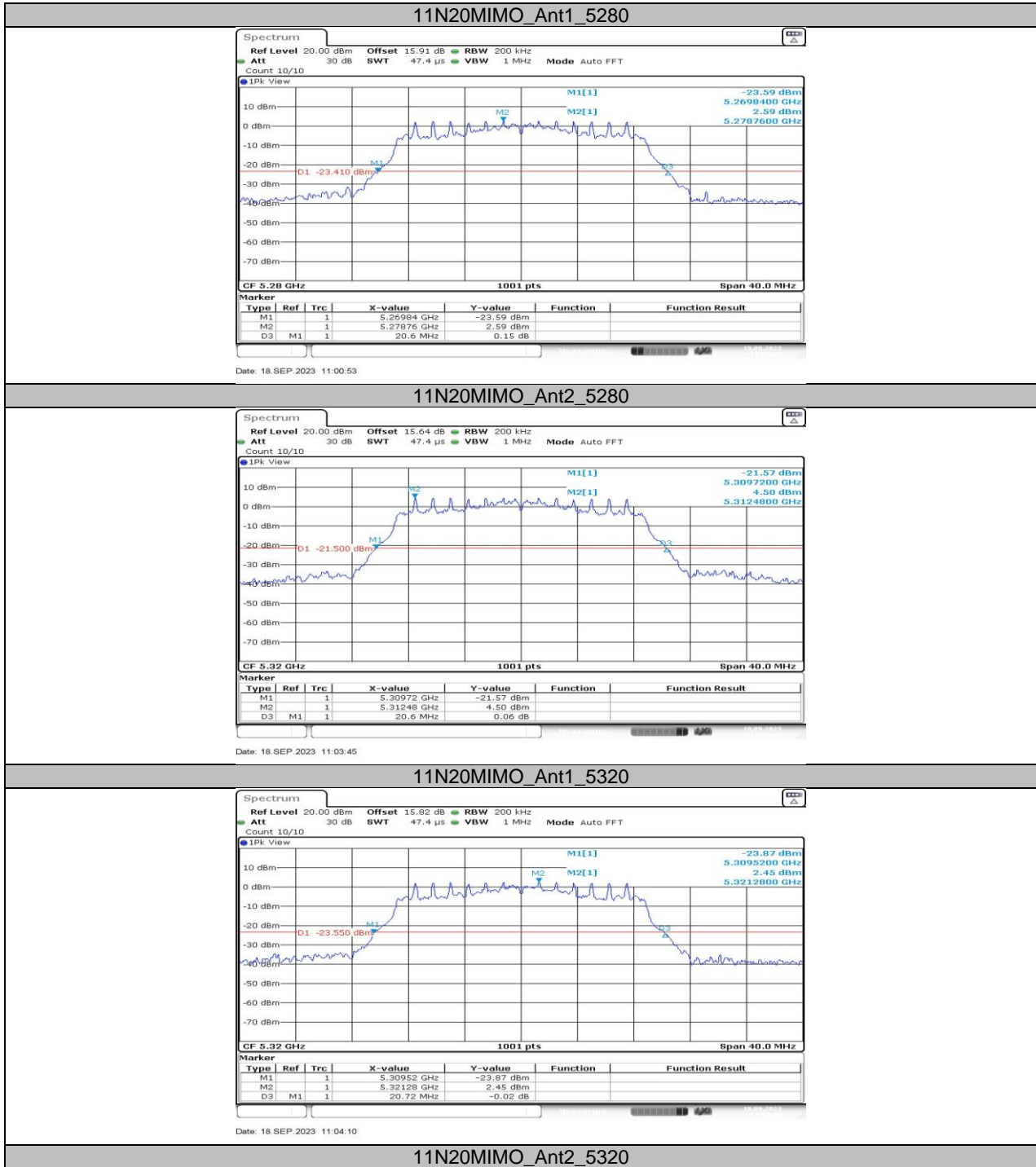


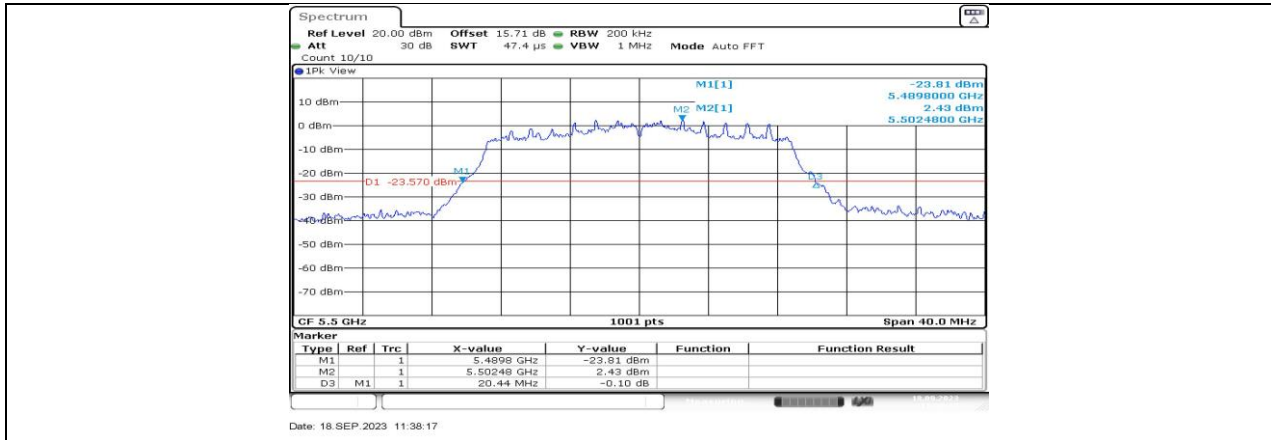
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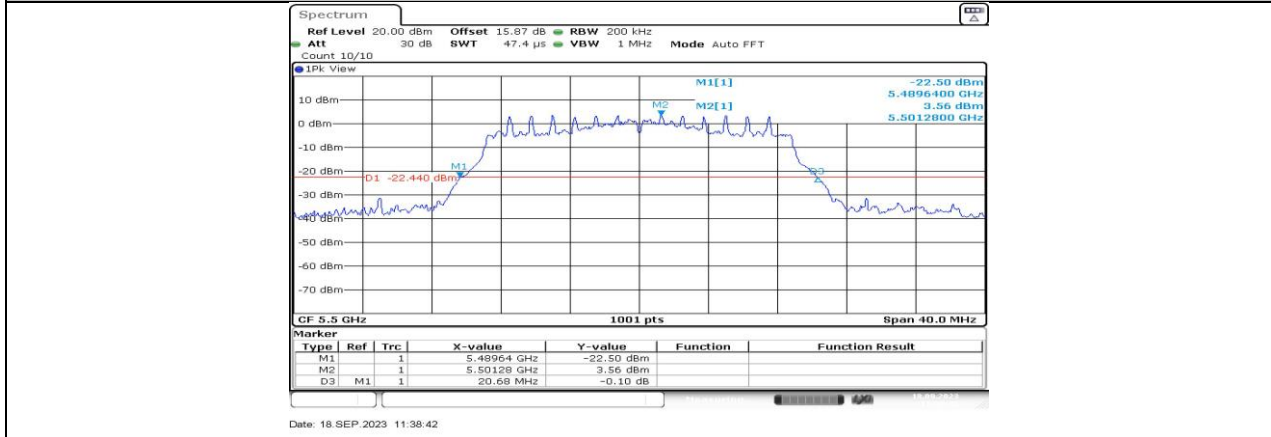
11N20MIMO_Ant2_5260



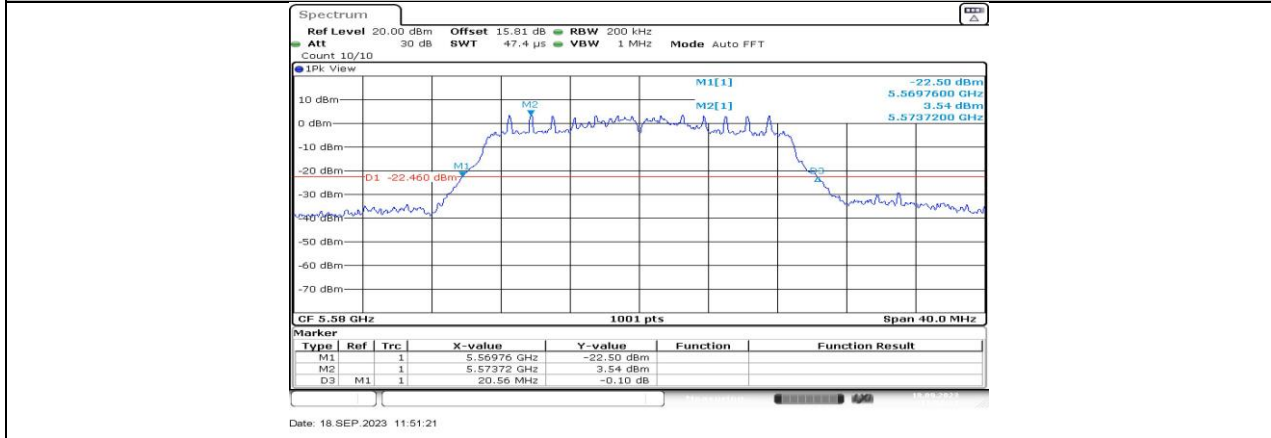




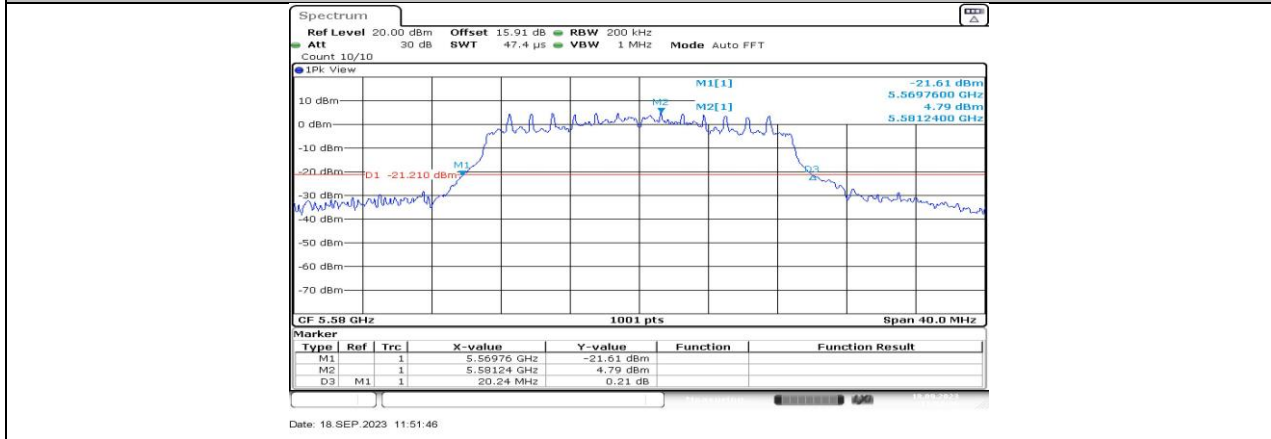
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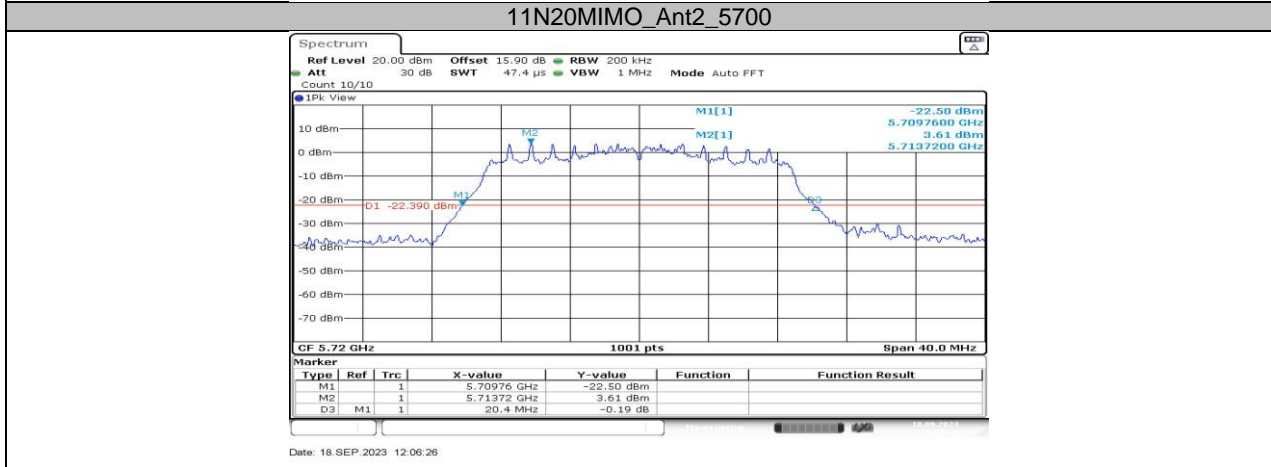
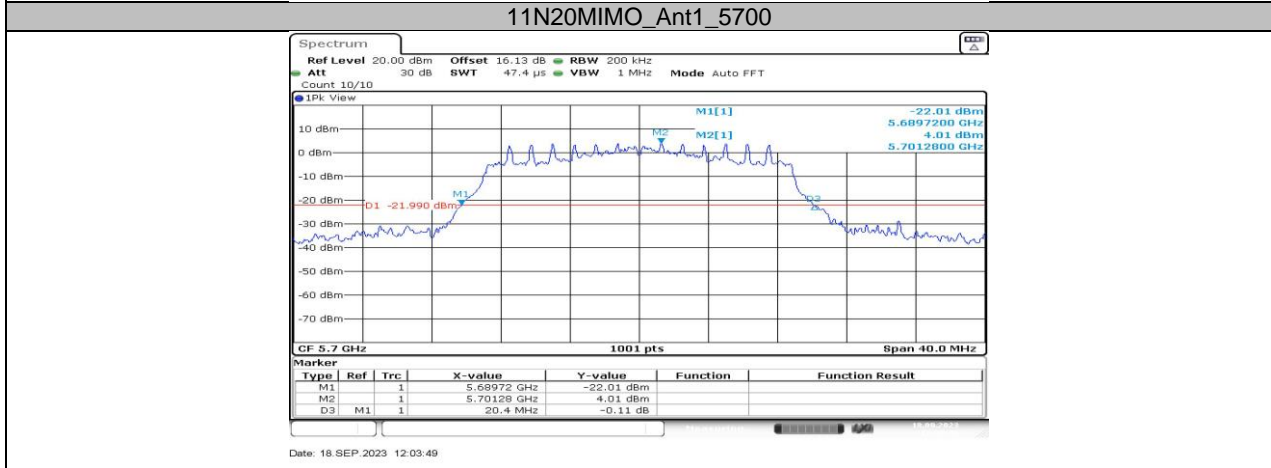
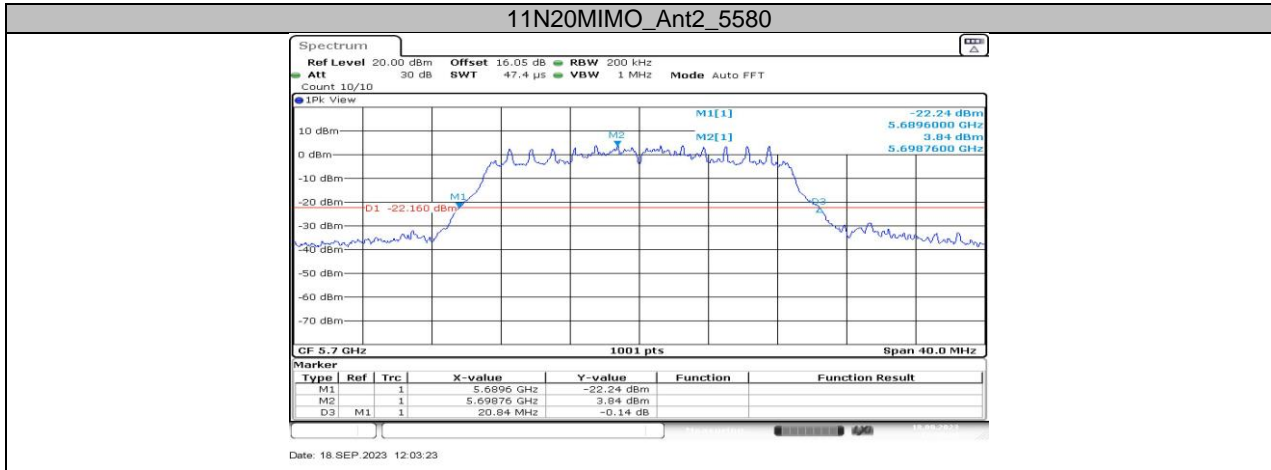


11N20MIMO_Ant2_5500

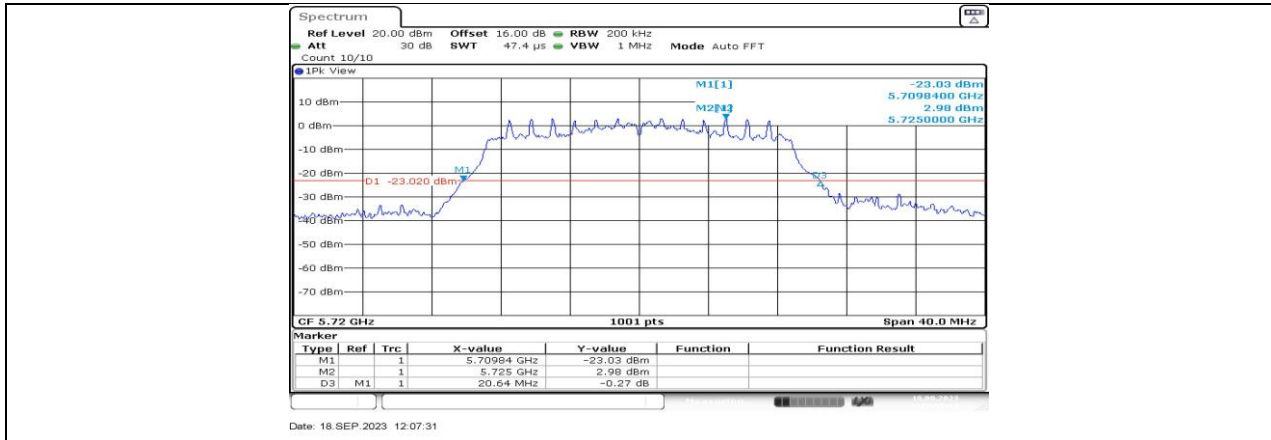


11N20MIMO_Ant1_5580



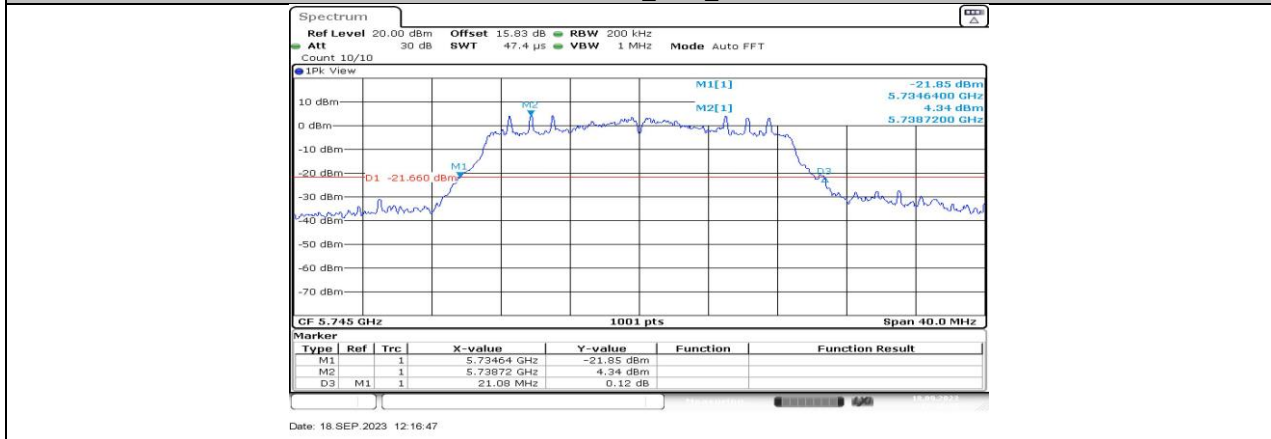


11N20MIMO_Ant1_5720



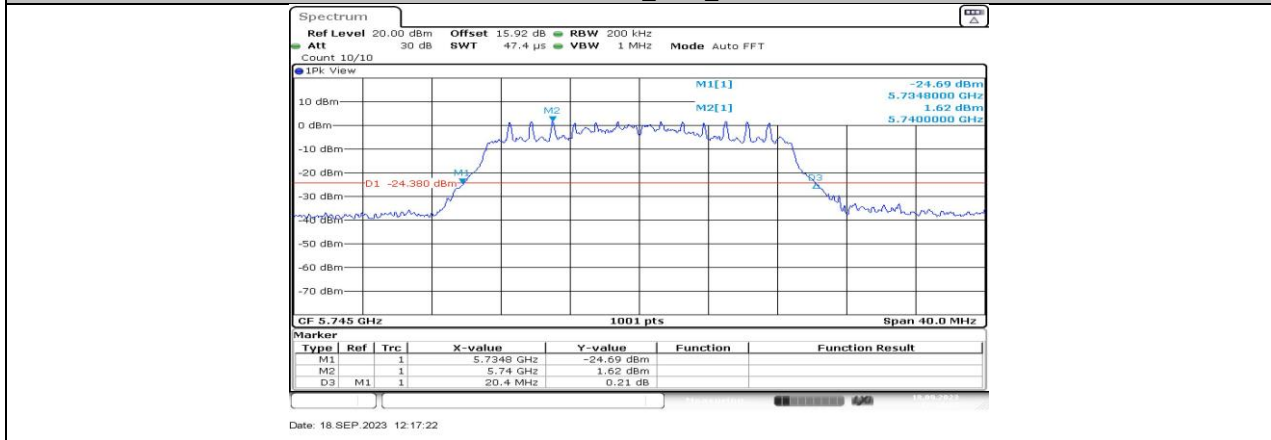
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11N20MIMO_Ant2_5720



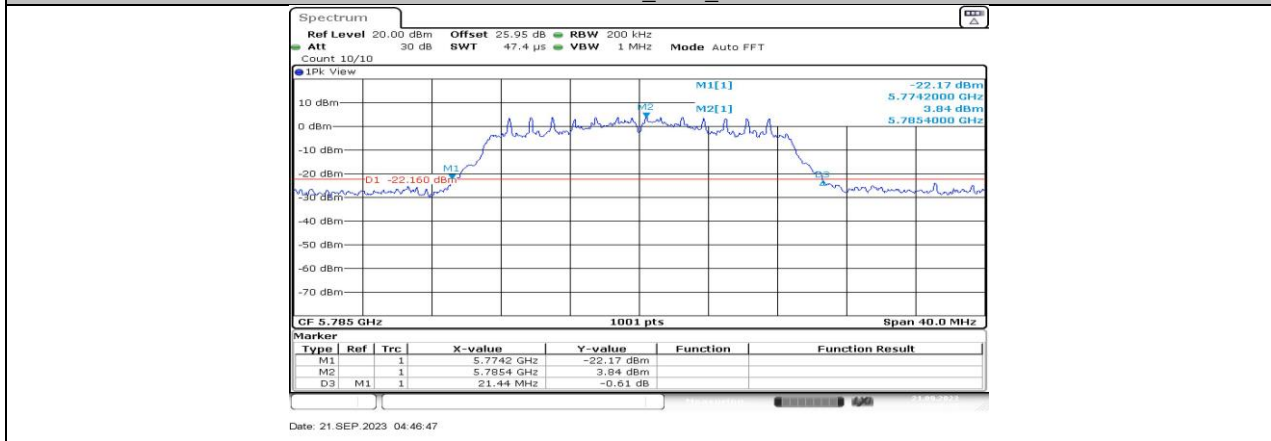
Date: 18.SEP.2023 12:16:47

11N20MIMO_Ant1_5745

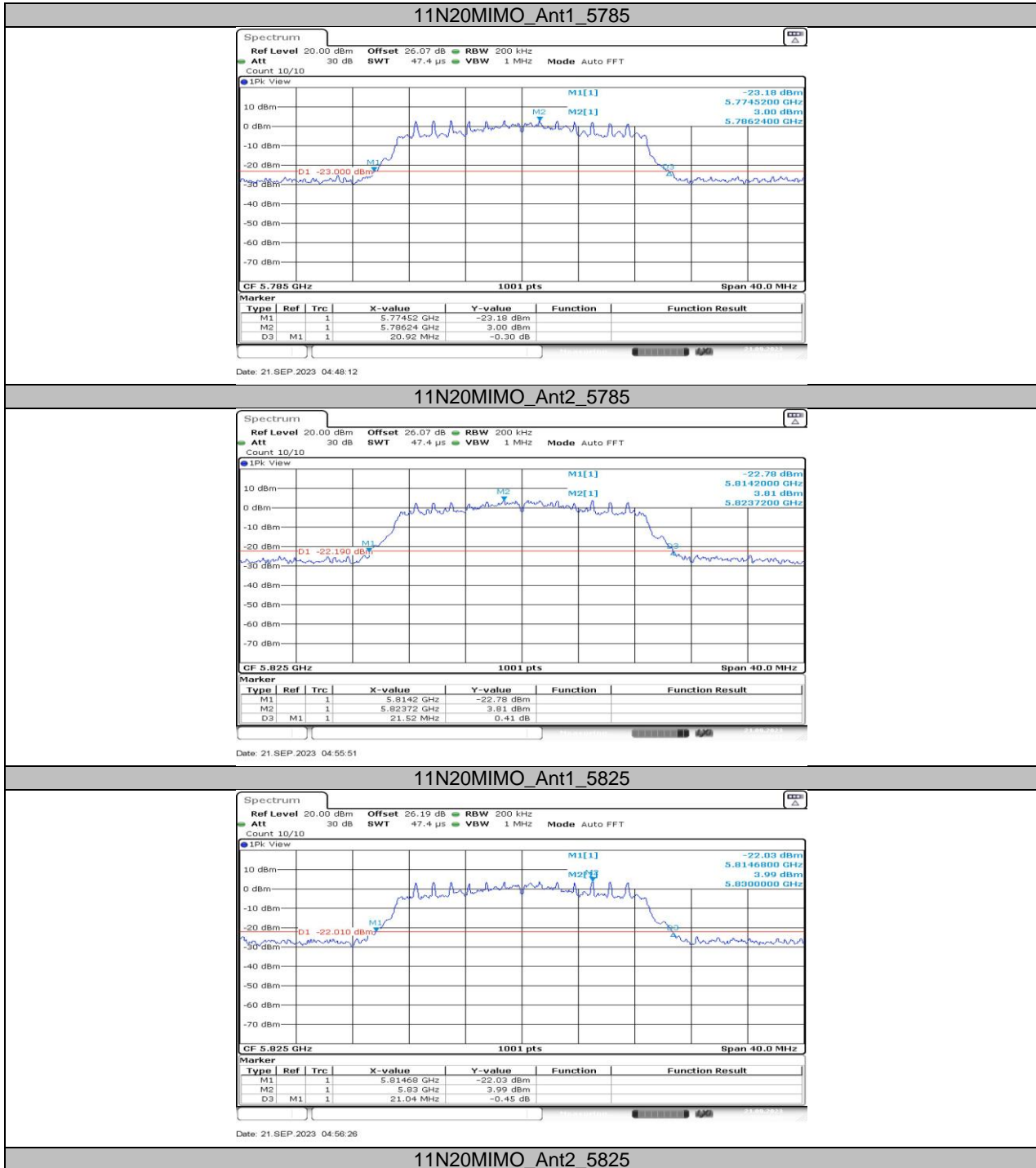


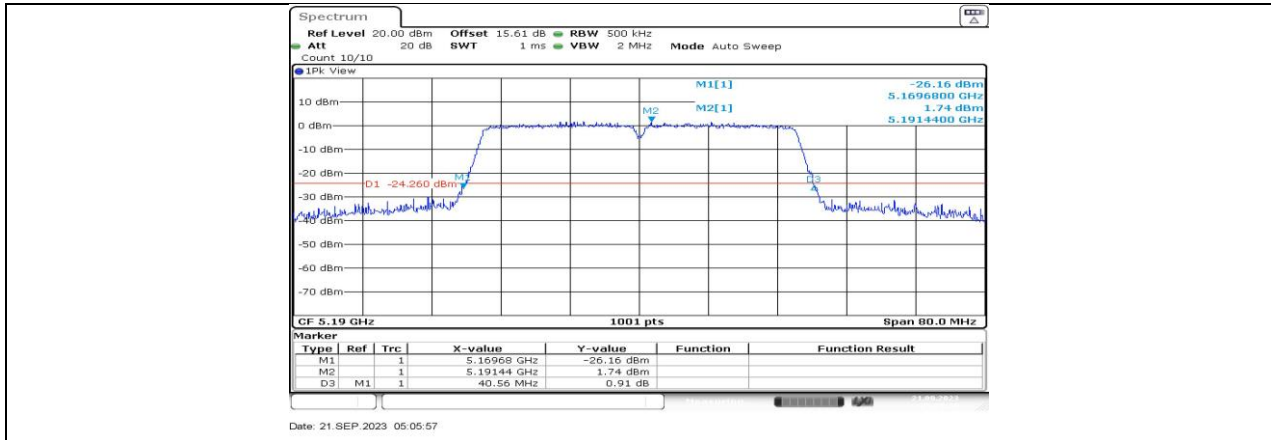
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11N20MIMO_Ant2_5745



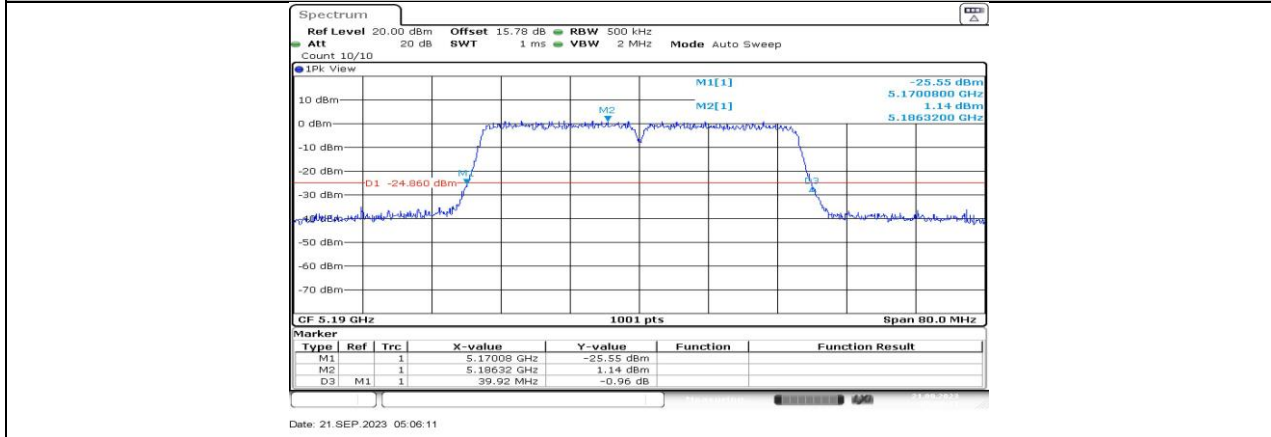
Date: 21.SEP.2023 04:46:47





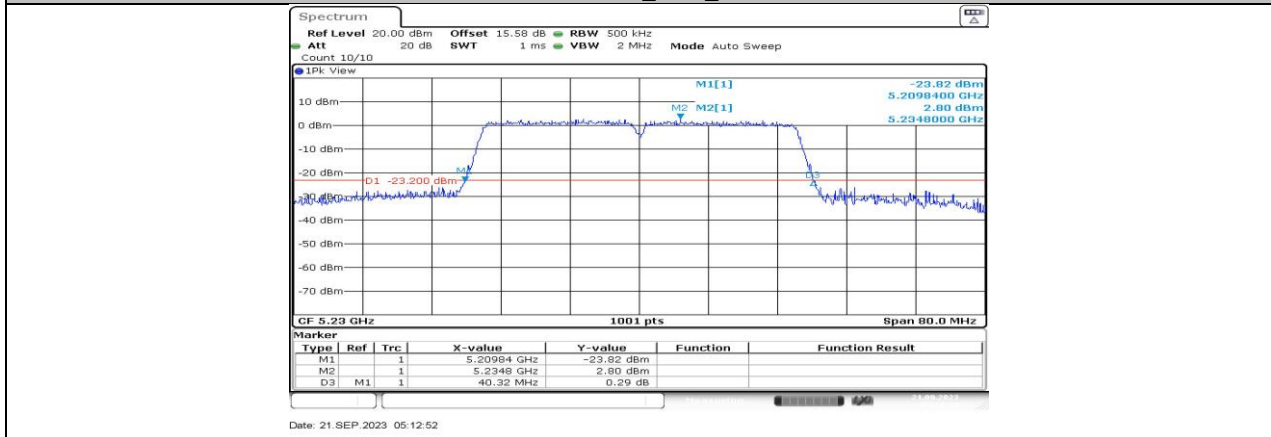
Date: 21.SEP.2023 05:05:57

11N40MIMO_Ant1_5190



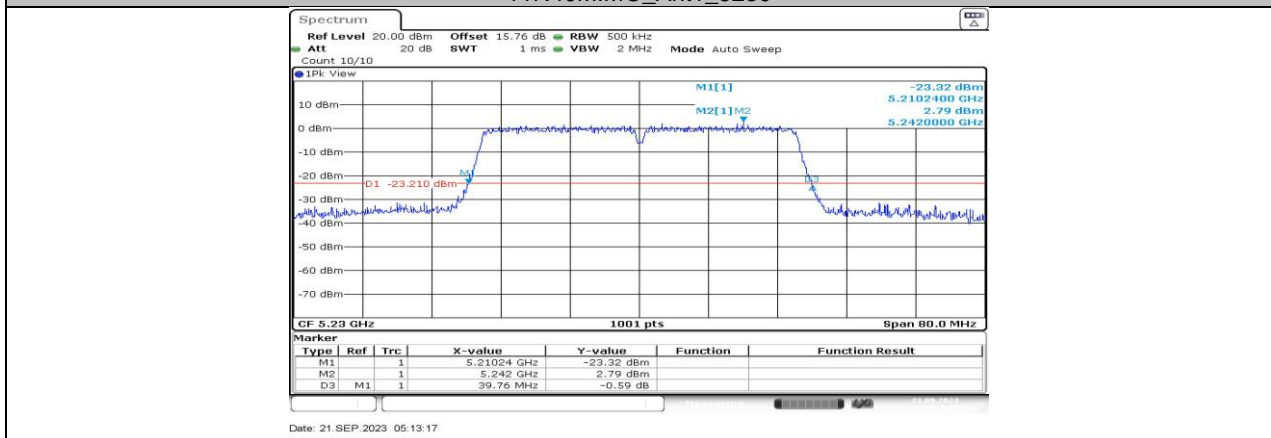
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11N40MIMO_Ant2_5190

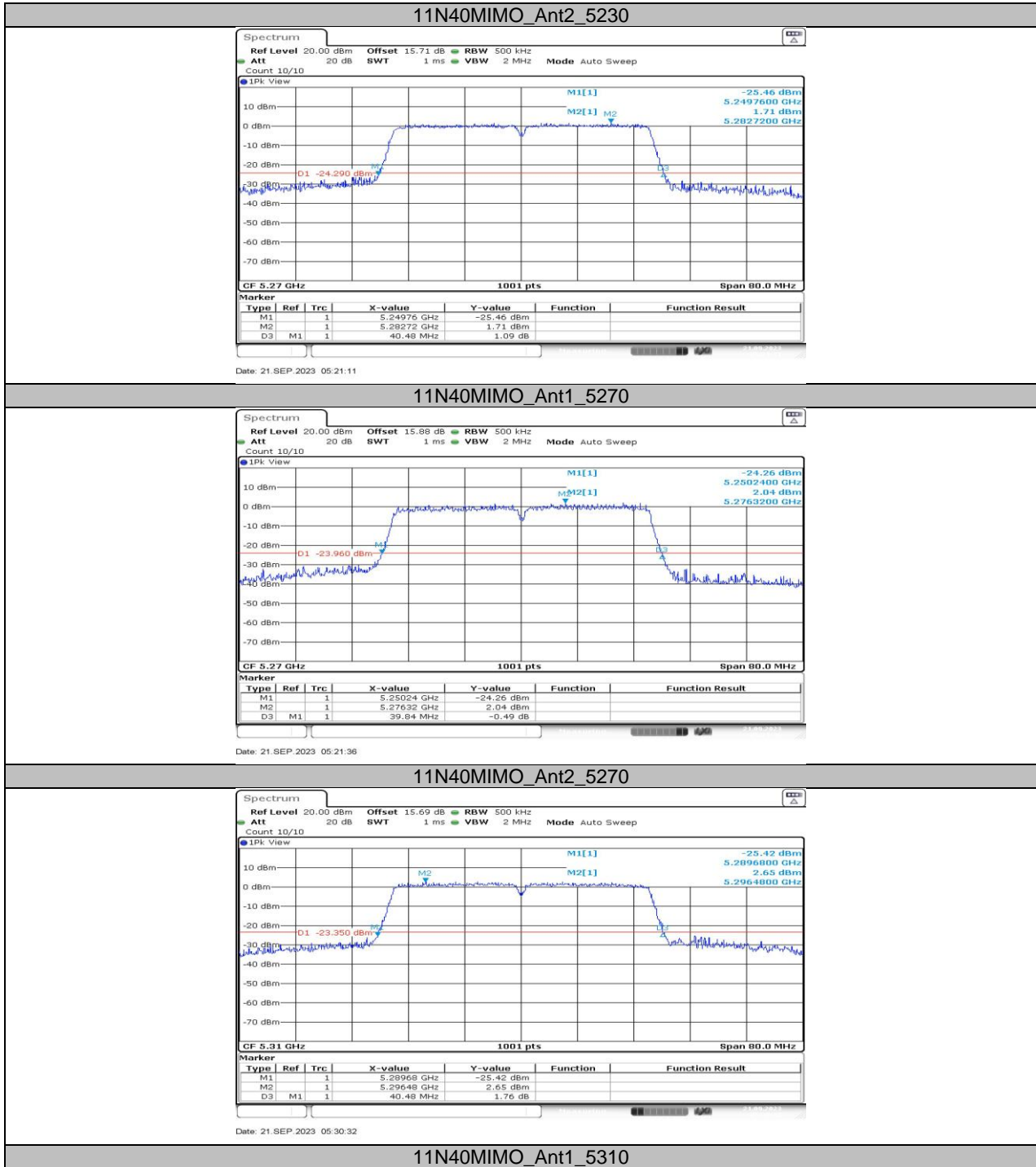


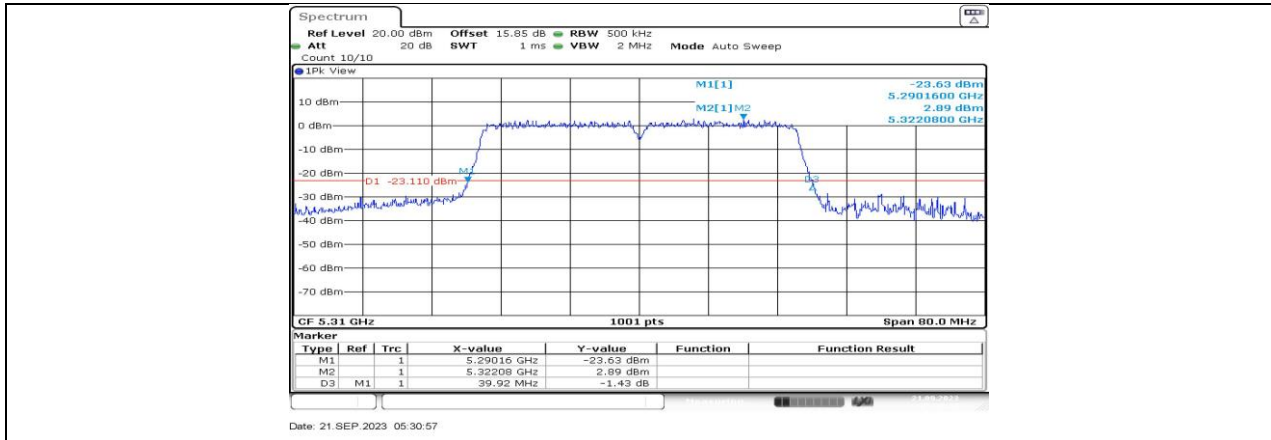
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11N40MIMO_Ant1_5230

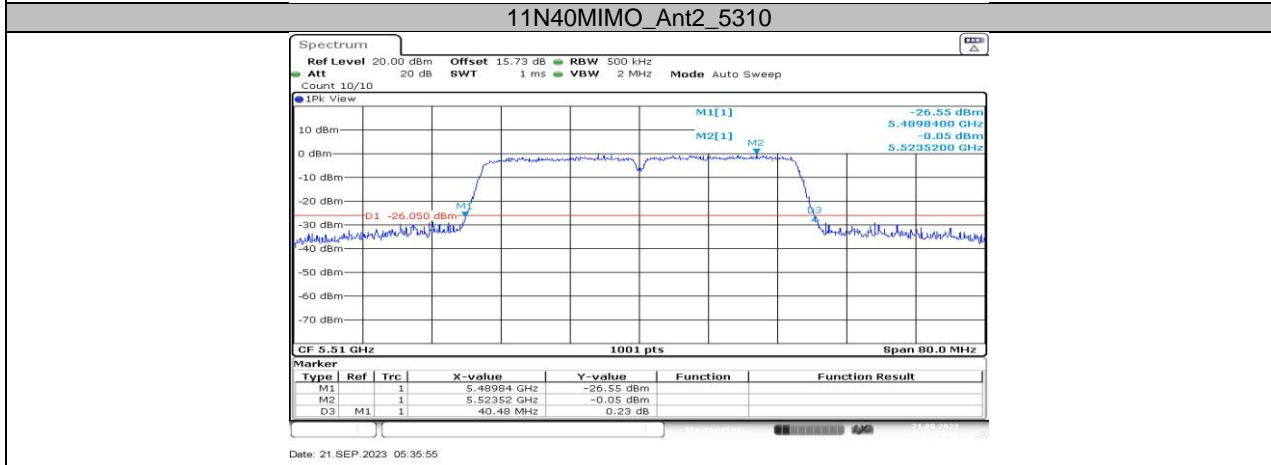


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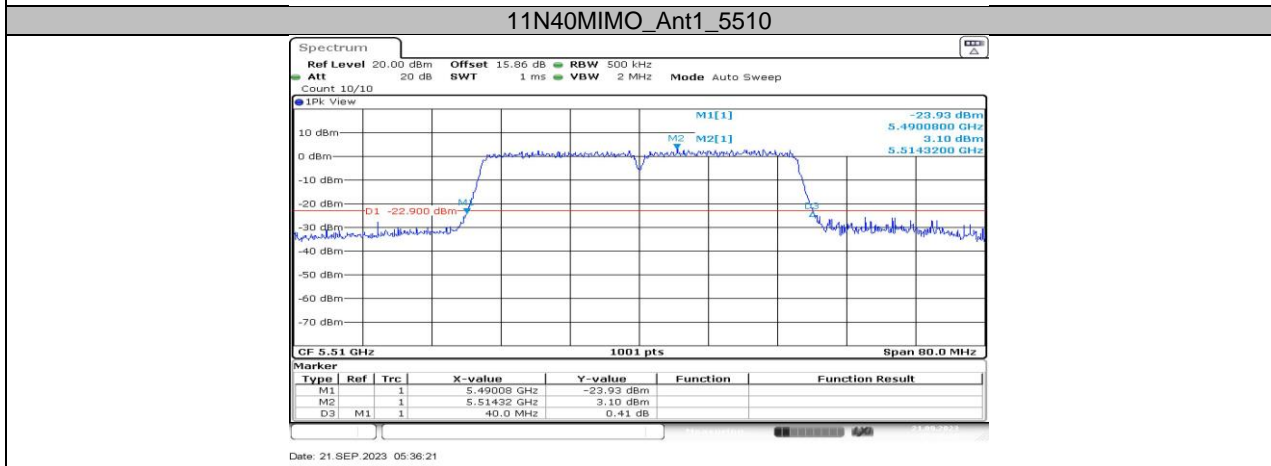




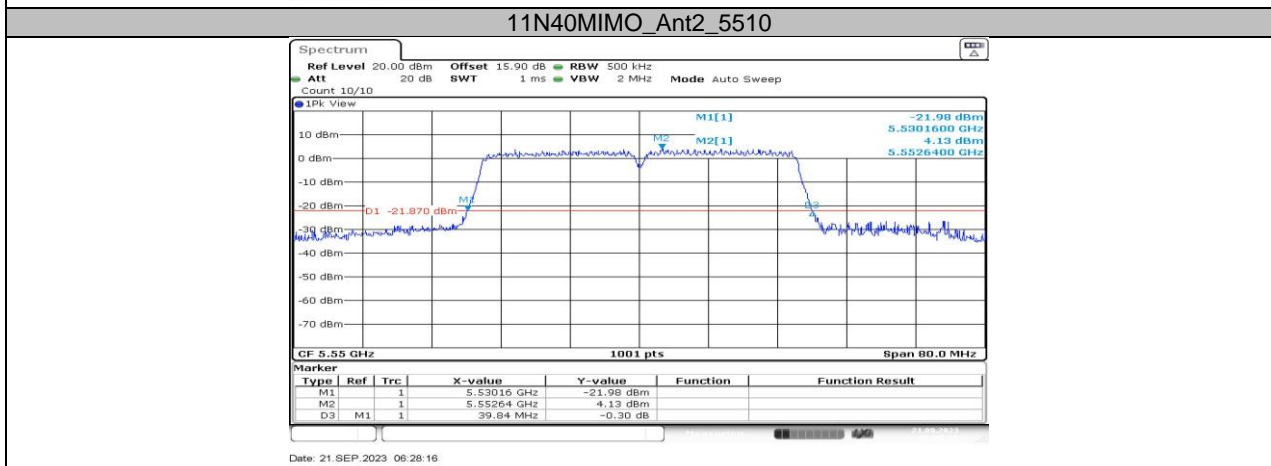
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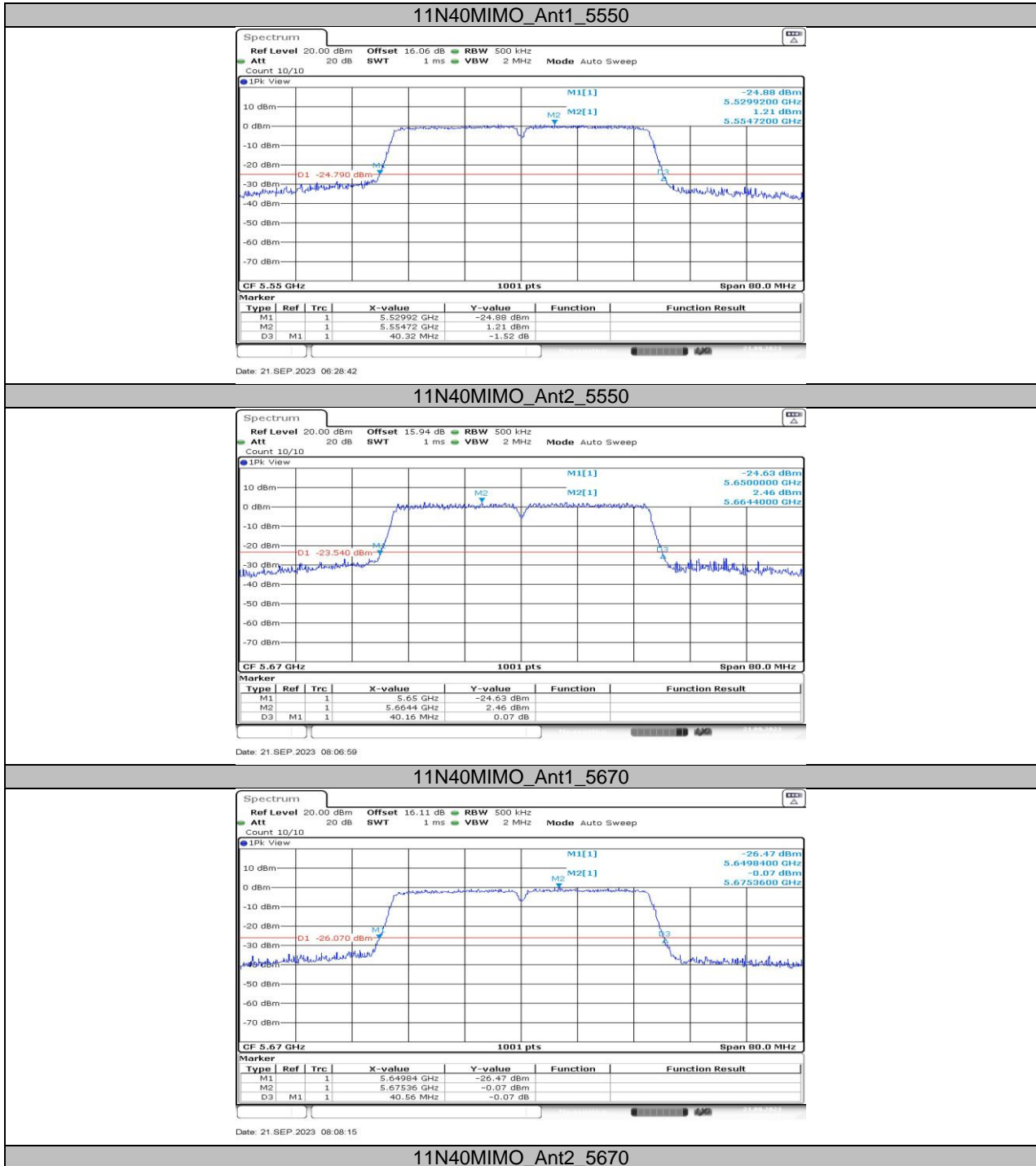
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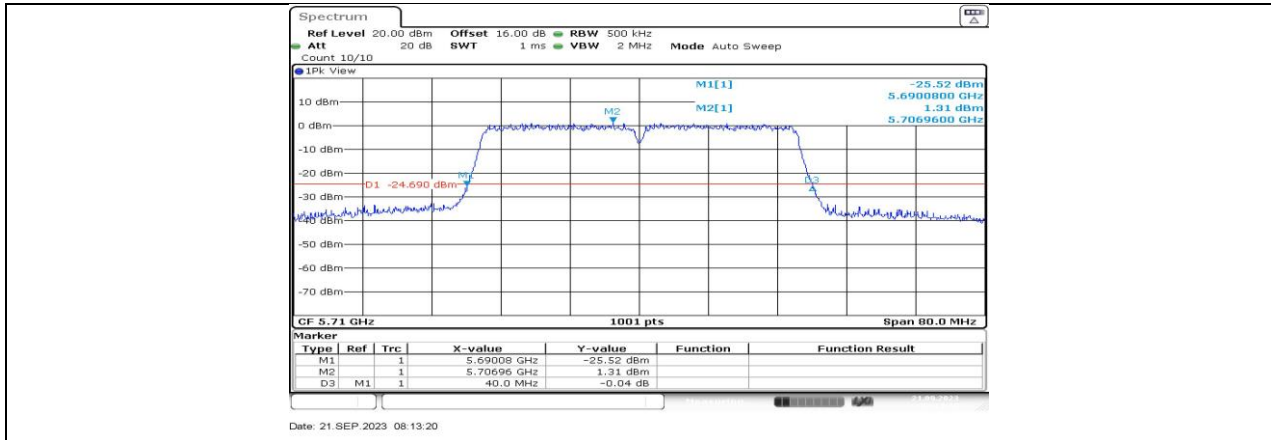


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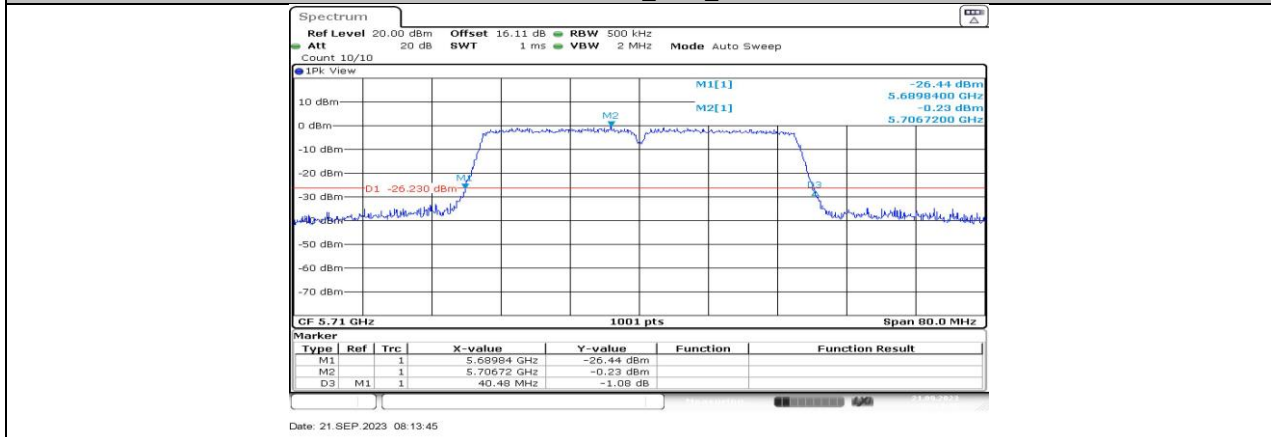


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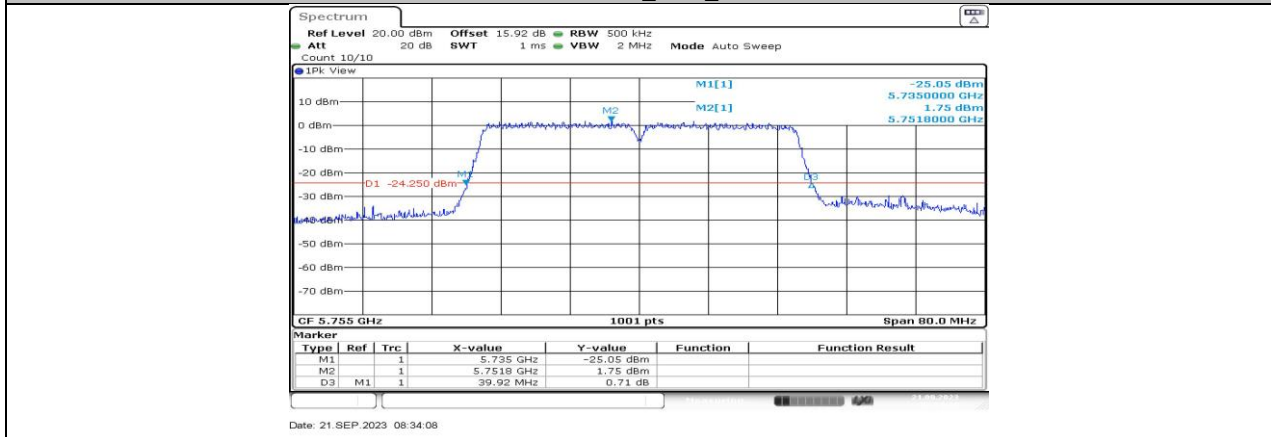




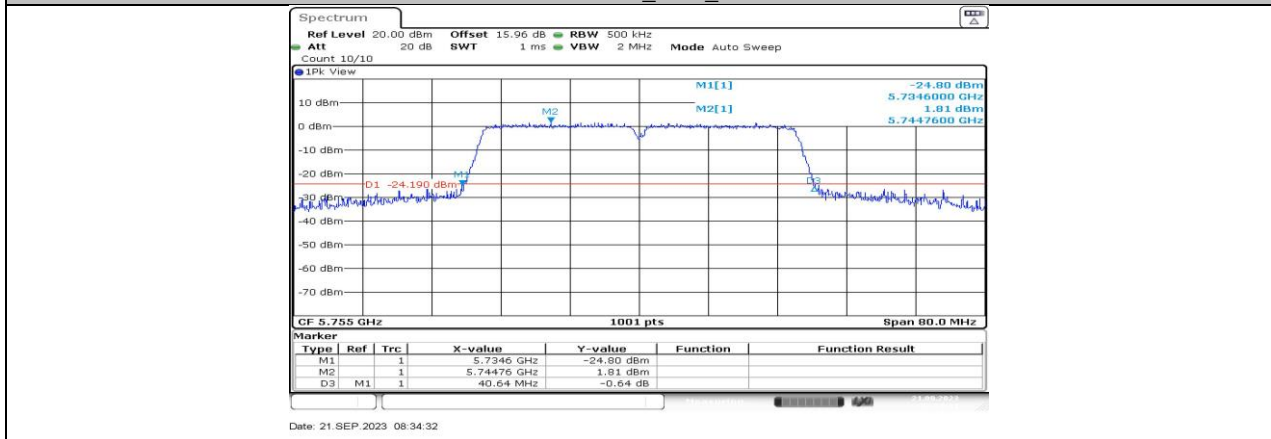
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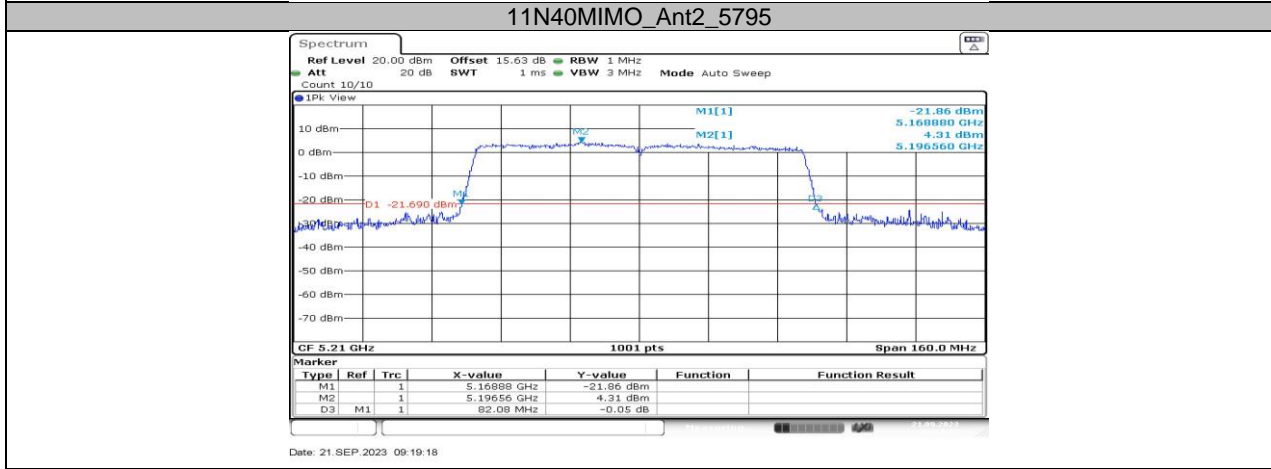
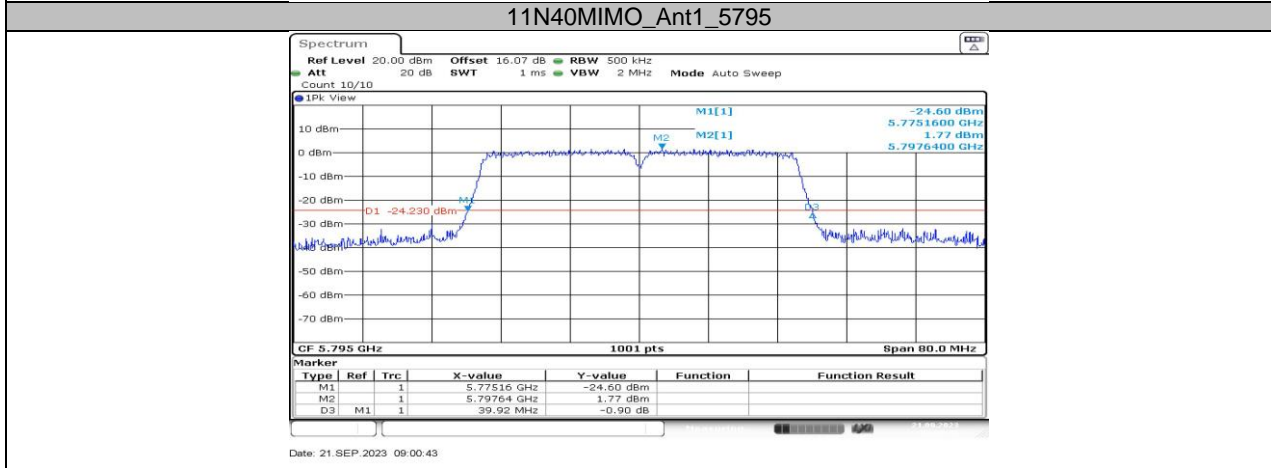
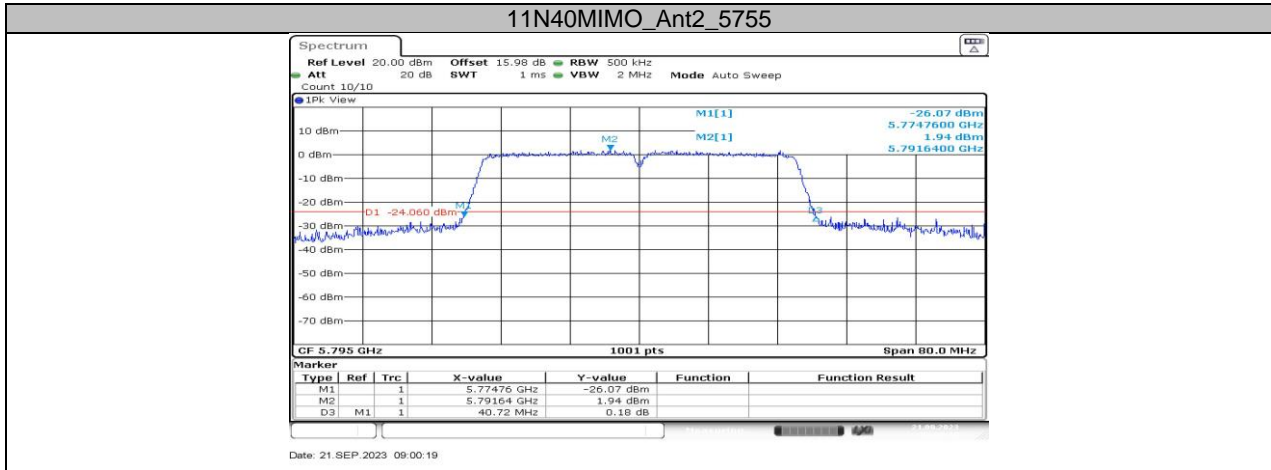


11N40MIMO_Ant2_5710

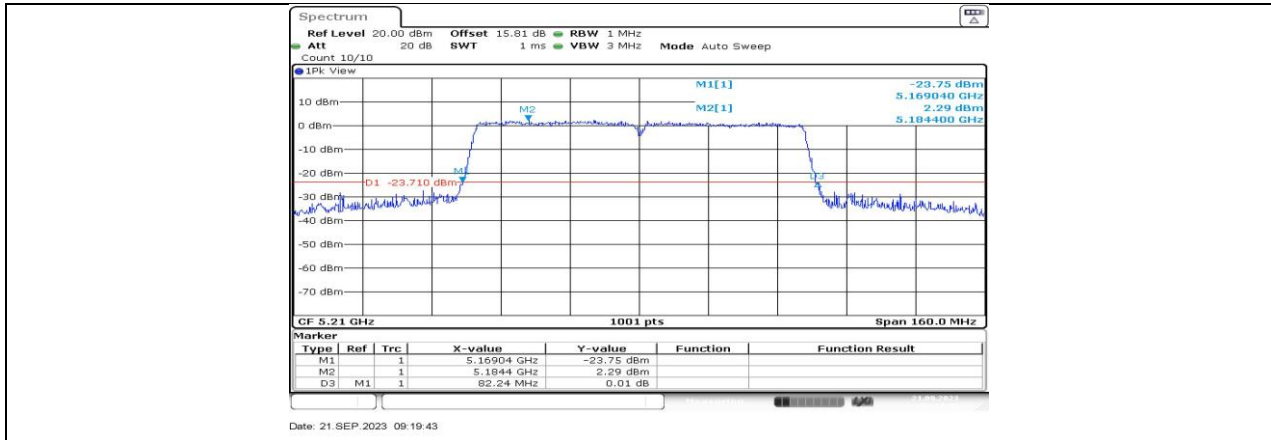


11N40MIMO_Ant1_5755

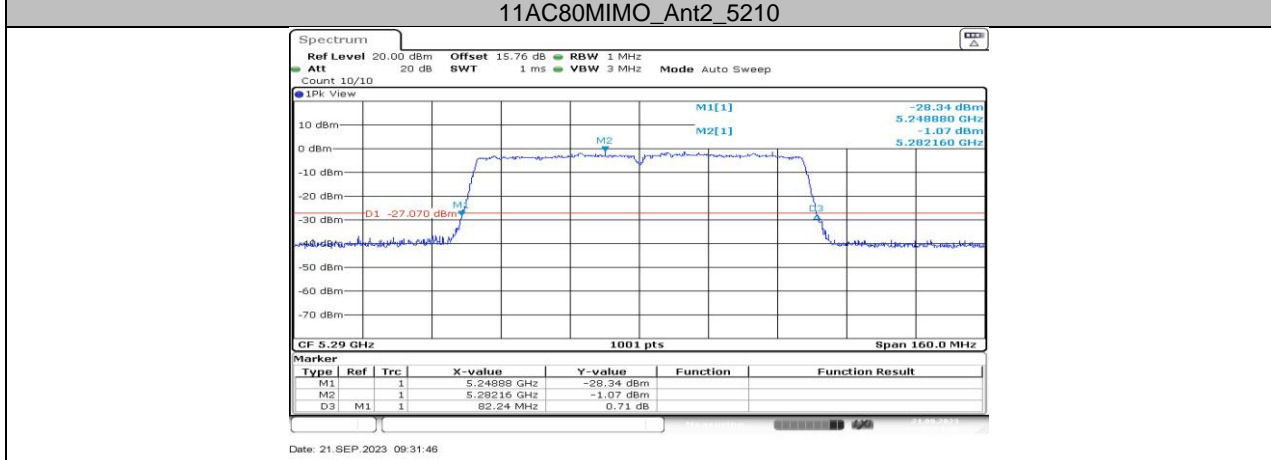




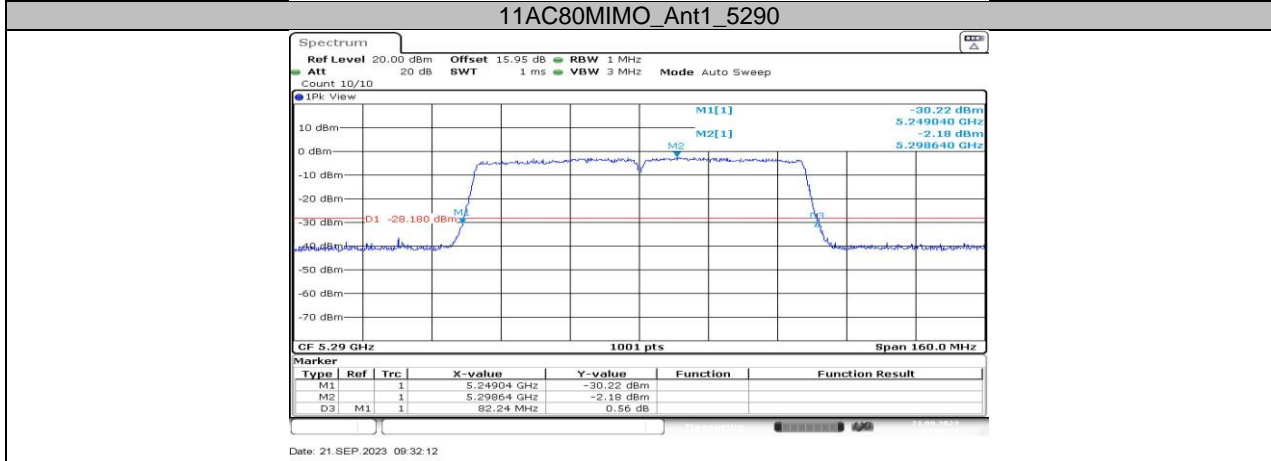
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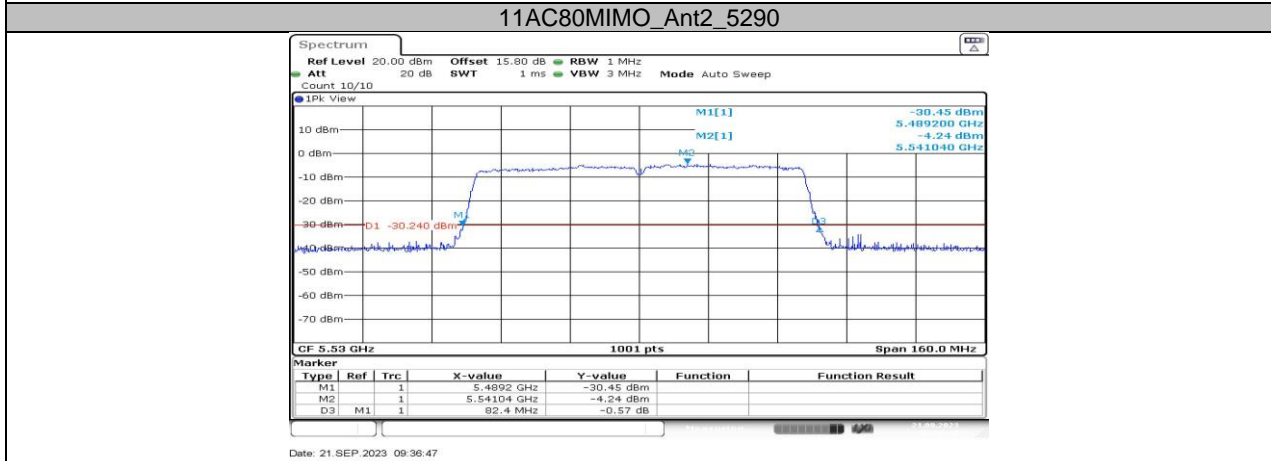
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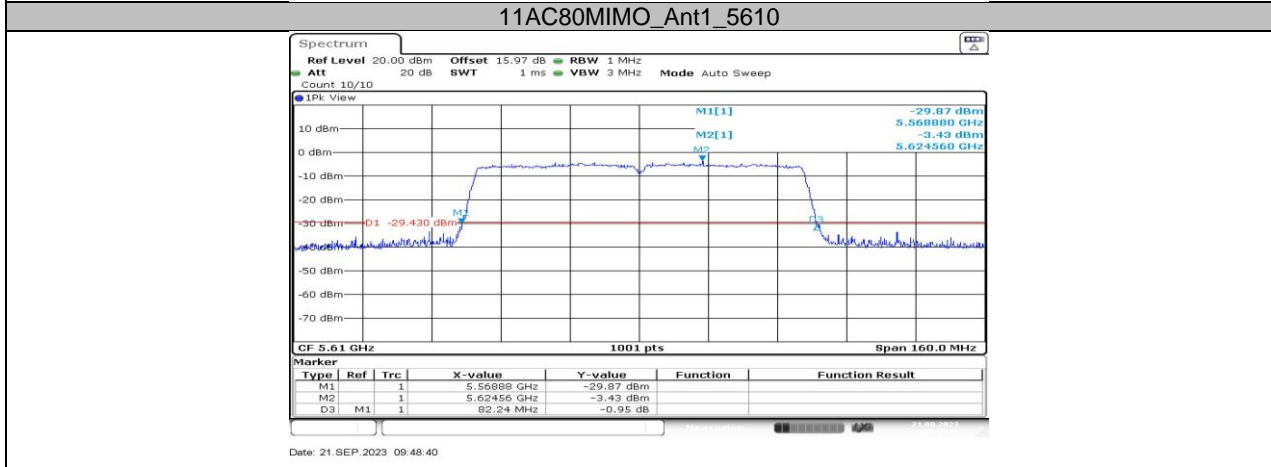
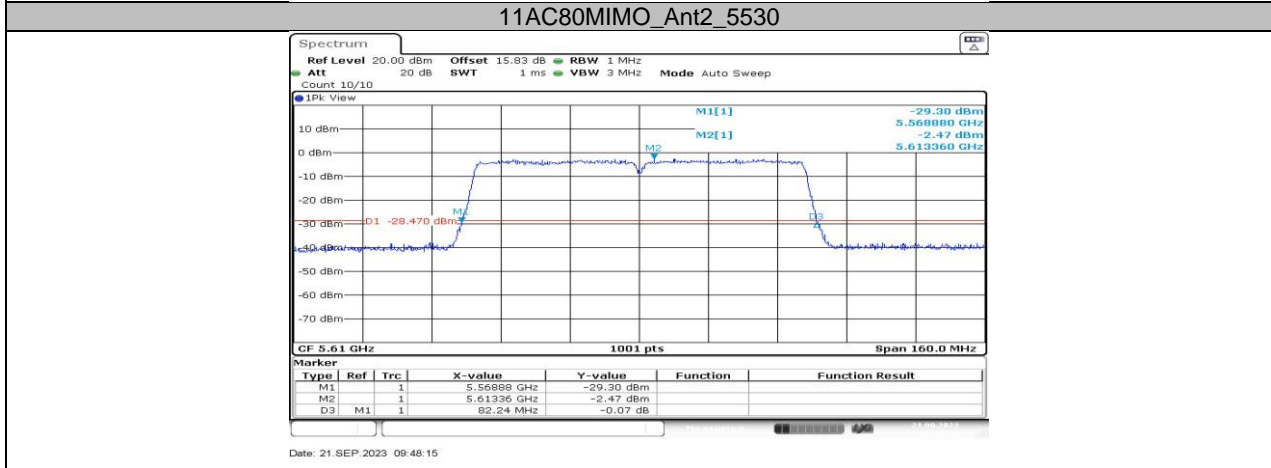
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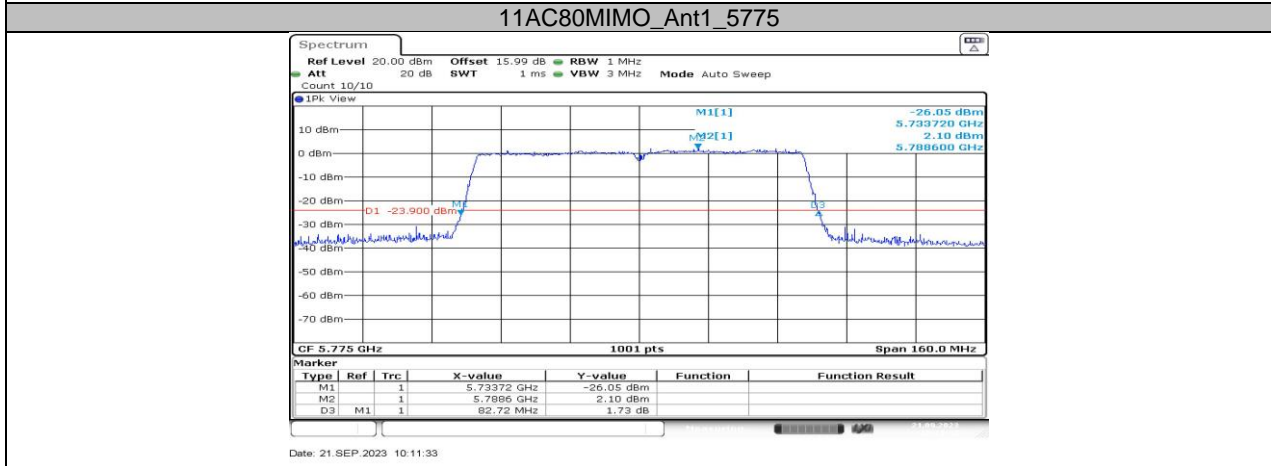
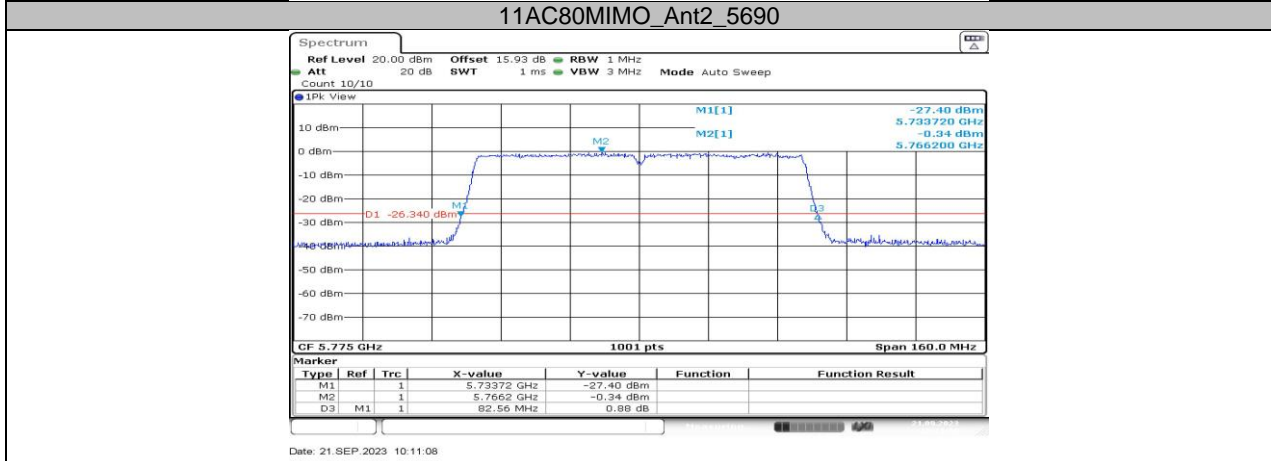
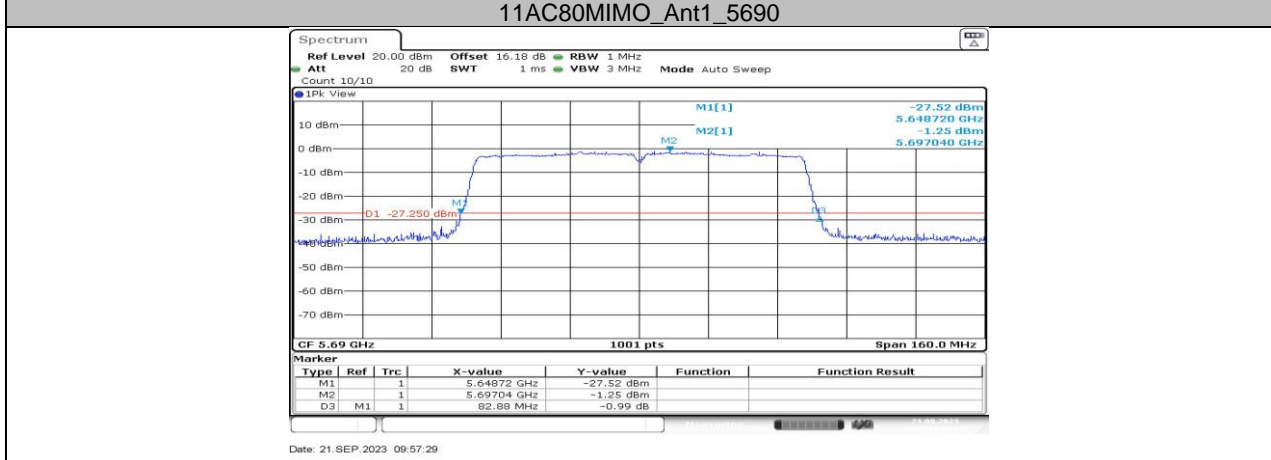
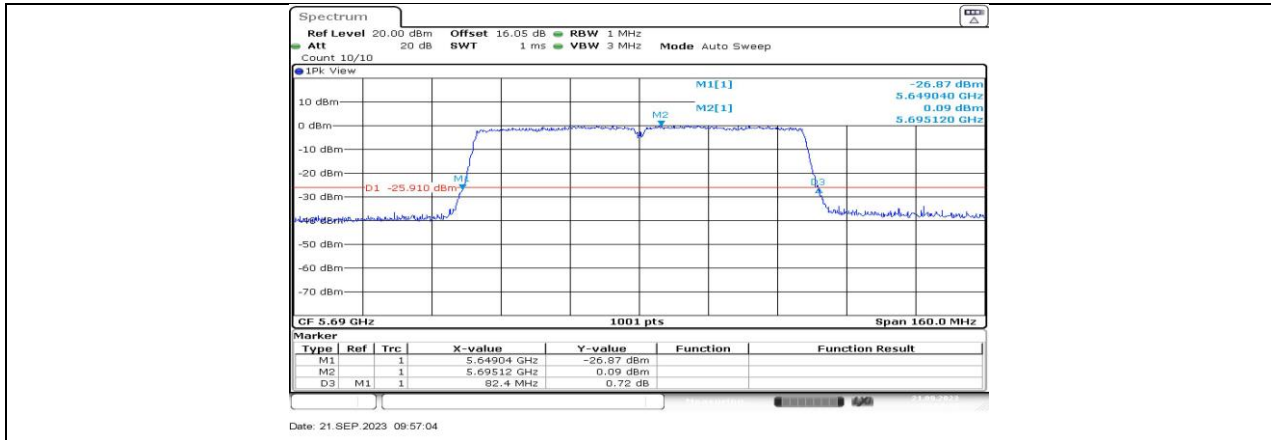
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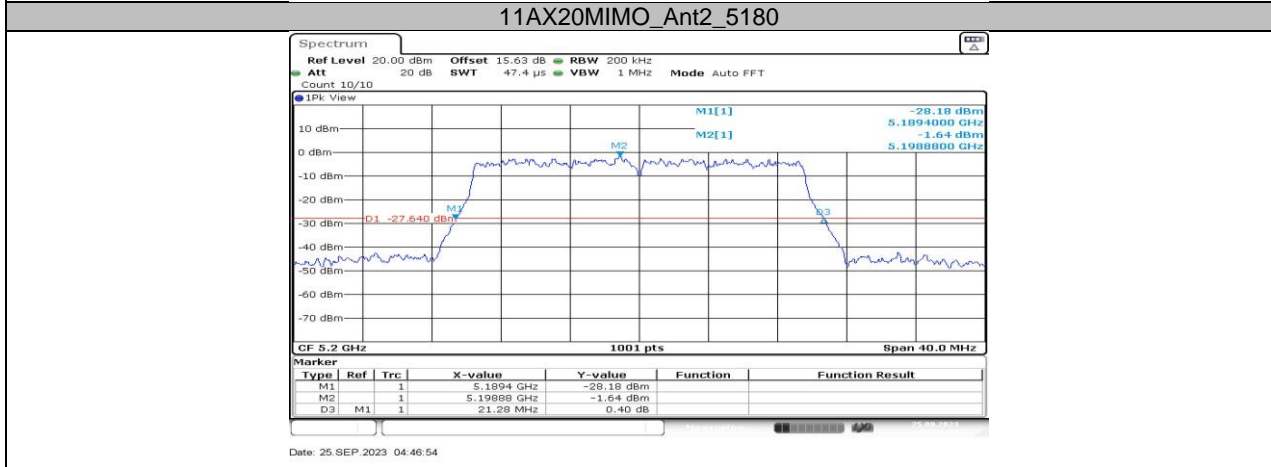
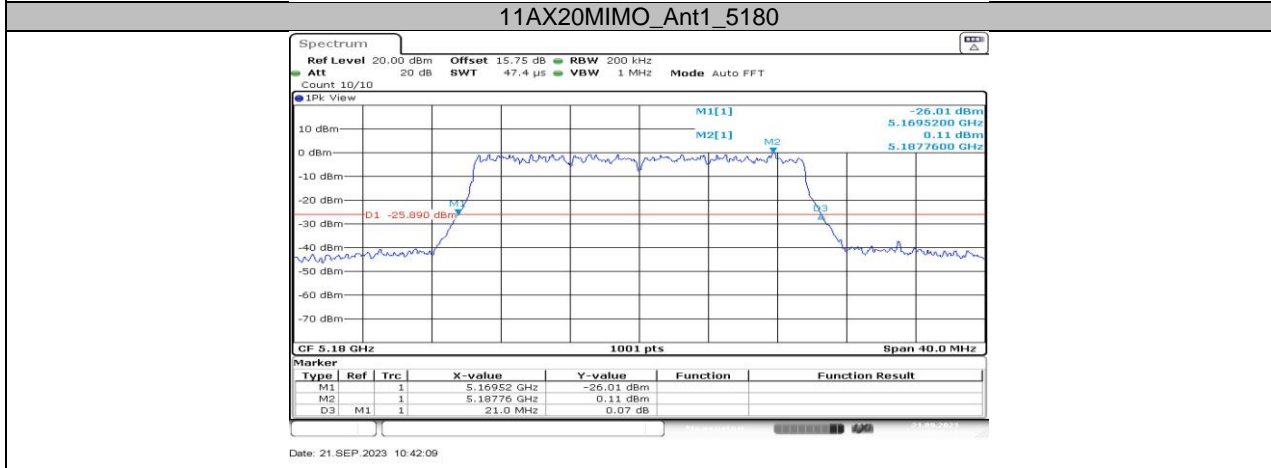
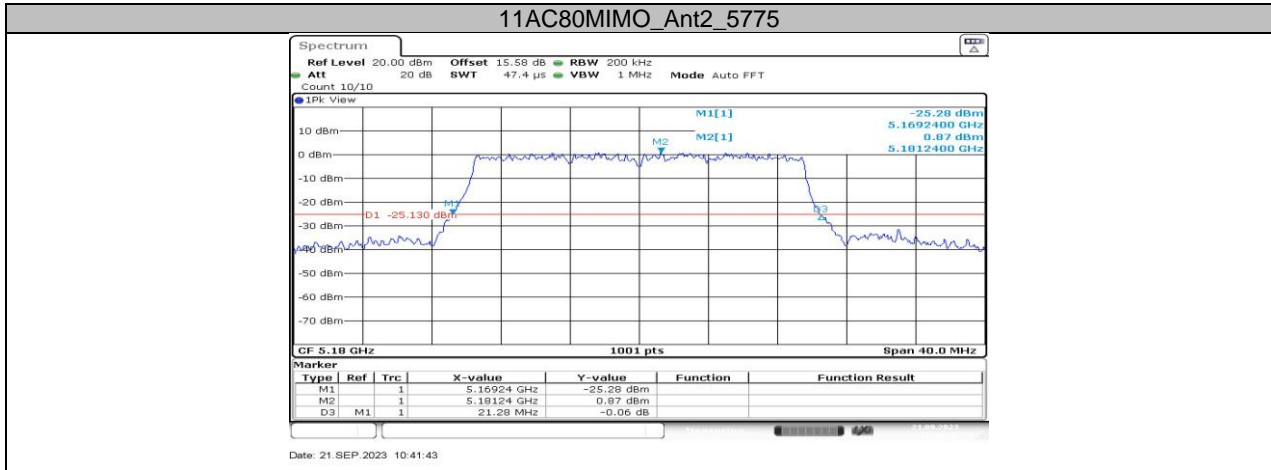


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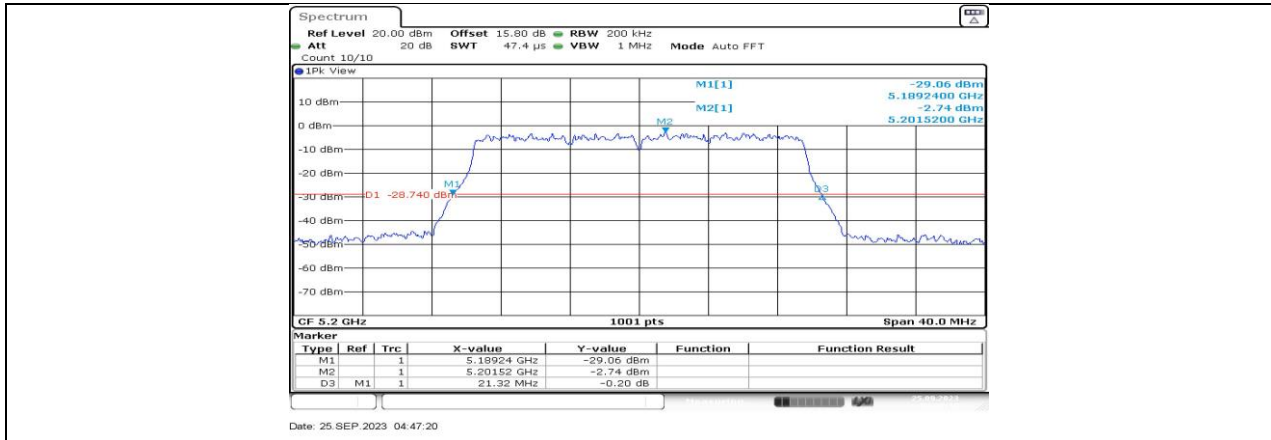


11AC80MIMO_Ant2_5610



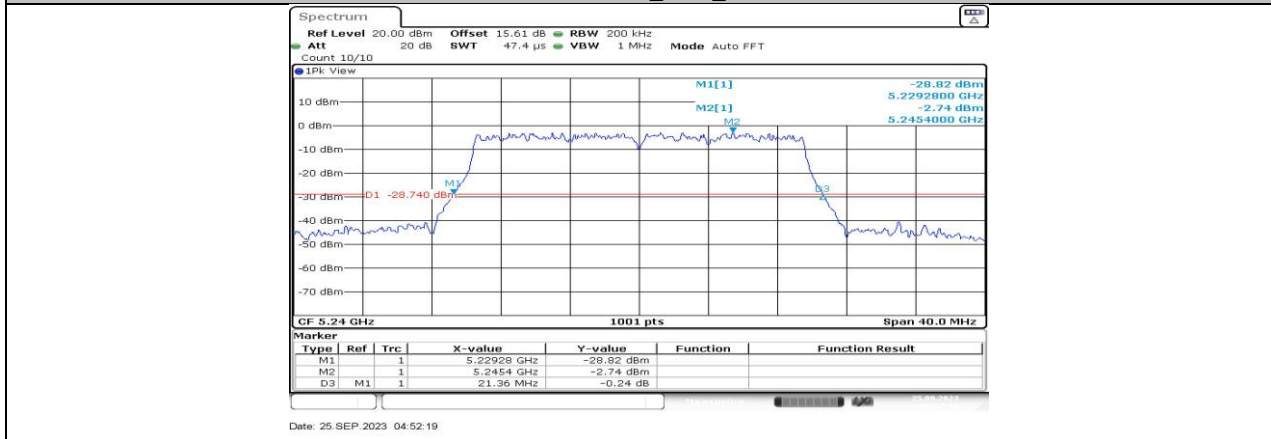


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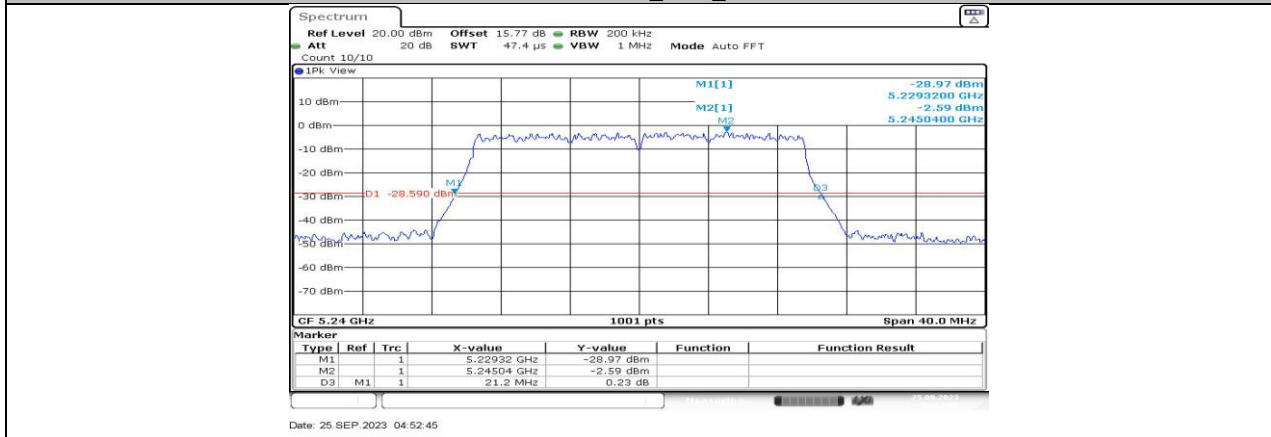
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11AX20MIMO_Ant2_5200



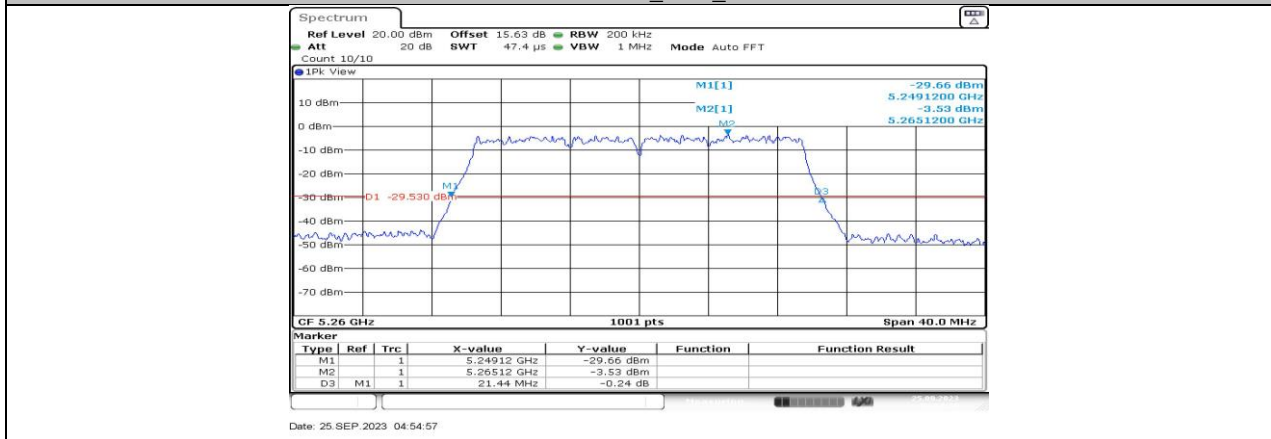
Date: 25.SEP.2023 04:52:19

11AX20MIMO_Ant1_5240



Date: 25.SEP.2023 04:52:45

11AX20MIMO_Ant2_5240



Date: 25.SEP.2023 04:54:57