

TEST ENVIRONMENT

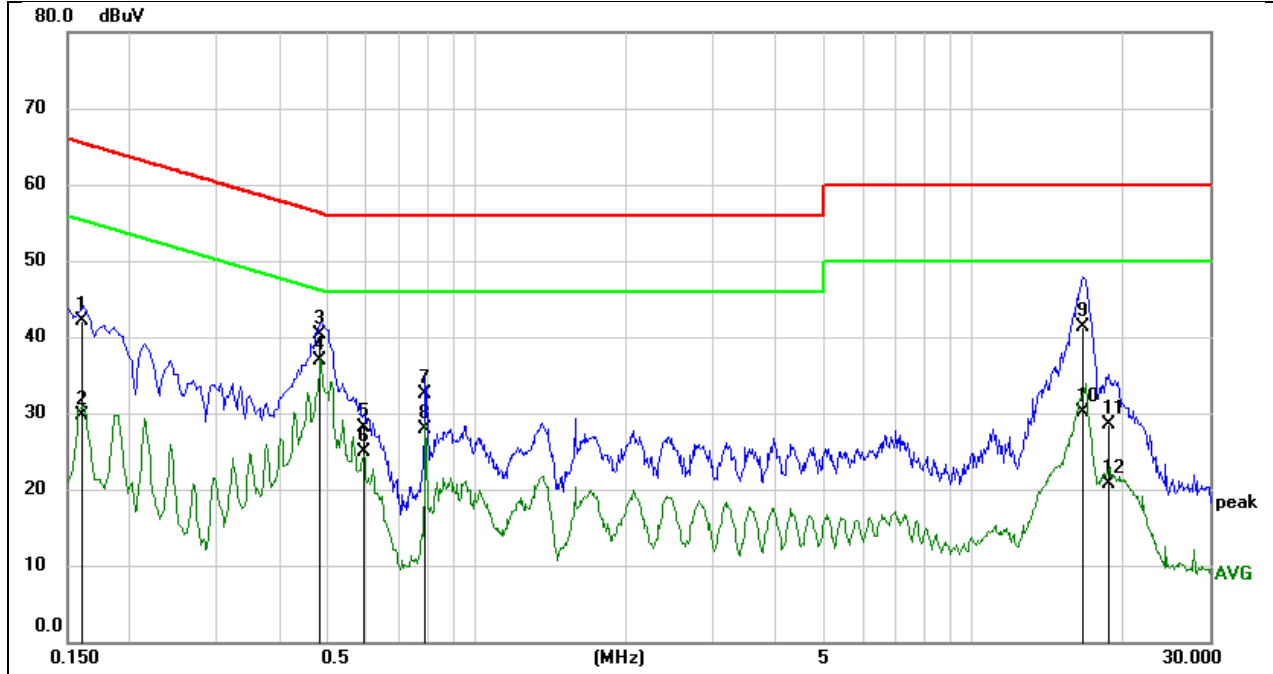
Temperature	23.1 °C	Relative Humidity	61.9%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	April 8, 2024	Test By	Wite Chen
-----------	---------------	---------	-----------

TEST RESULTS

Test Mode:	802.11a20	Frequency(MHz):	5180
Line:	Line		



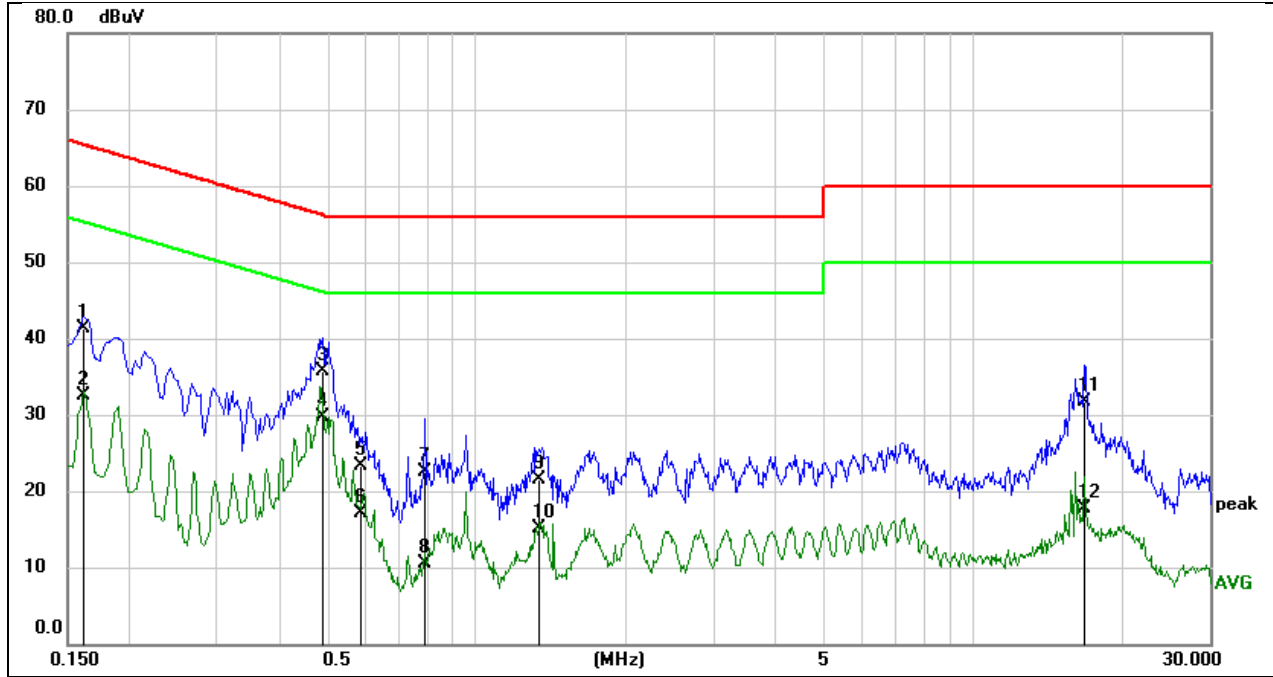
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1607	31.79	10.32	42.11	65.43	-23.32	QP
2	0.1607	19.38	10.32	29.70	55.43	-25.73	AVG
3	0.4861	29.99	10.24	40.23	56.23	-16.00	QP
4	0.4861	26.59	10.24	36.83	46.23	-9.40	AVG
5	0.5917	17.89	10.24	28.13	56.00	-27.87	QP
6	0.5917	14.58	10.24	24.82	46.00	-21.18	AVG
7	0.7910	22.29	10.17	32.46	56.00	-23.54	QP
8	0.7910	17.83	10.17	28.00	46.00	-18.00	AVG
9	16.6413	30.70	10.64	41.34	60.00	-18.66	QP
10	16.6413	19.37	10.64	30.01	50.00	-19.99	AVG
11	18.7520	17.67	10.77	28.44	60.00	-31.56	QP
12	18.7520	9.90	10.77	20.67	50.00	-29.33	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.

Test Mode:	802.11a20	Frequency(MHz):	5180
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1611	31.06	10.32	41.38	65.41	-24.03	QP
2	0.1611	22.22	10.32	32.54	55.41	-22.87	AVG
3	0.4909	25.51	10.24	35.75	56.15	-20.40	QP
4	0.4909	19.39	10.24	29.63	46.15	-16.52	AVG
5	0.5848	13.05	10.24	23.29	56.00	-32.71	QP
6	0.5848	6.89	10.24	17.13	46.00	-28.87	AVG
7	0.7922	12.32	10.17	22.49	56.00	-33.51	QP
8	0.7922	0.35	10.17	10.52	46.00	-35.48	AVG
9	1.3455	11.48	10.00	21.48	56.00	-34.52	QP
10	1.3455	5.18	10.00	15.18	46.00	-30.82	AVG
11	16.7809	21.04	10.65	31.69	60.00	-28.31	QP
12	16.7809	7.00	10.65	17.65	50.00	-32.35	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

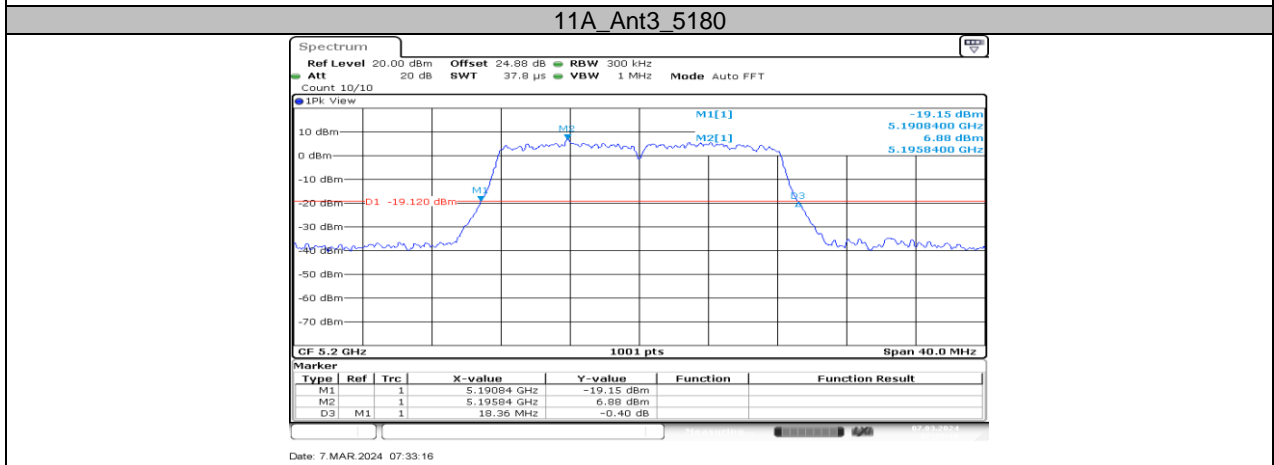
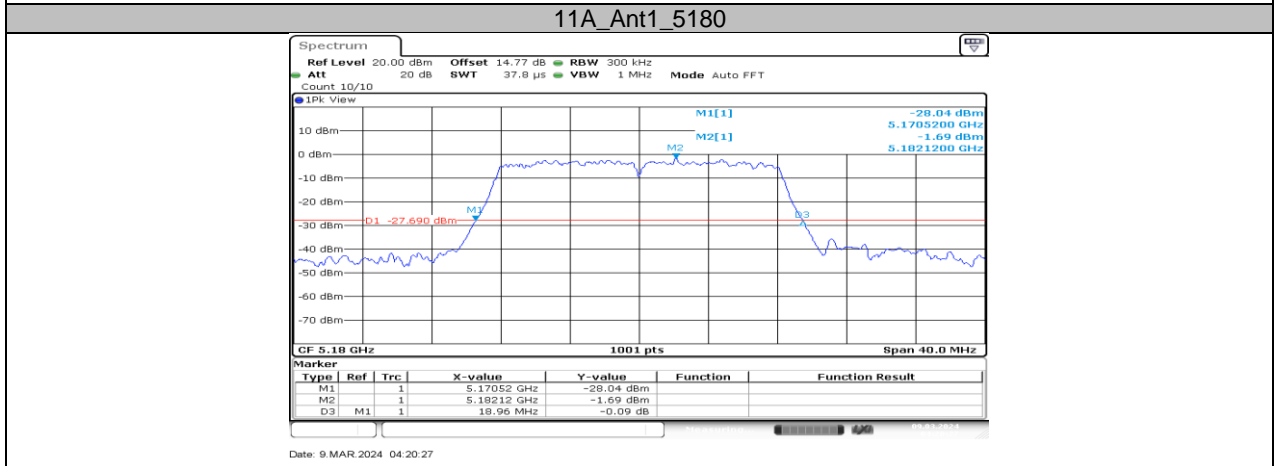
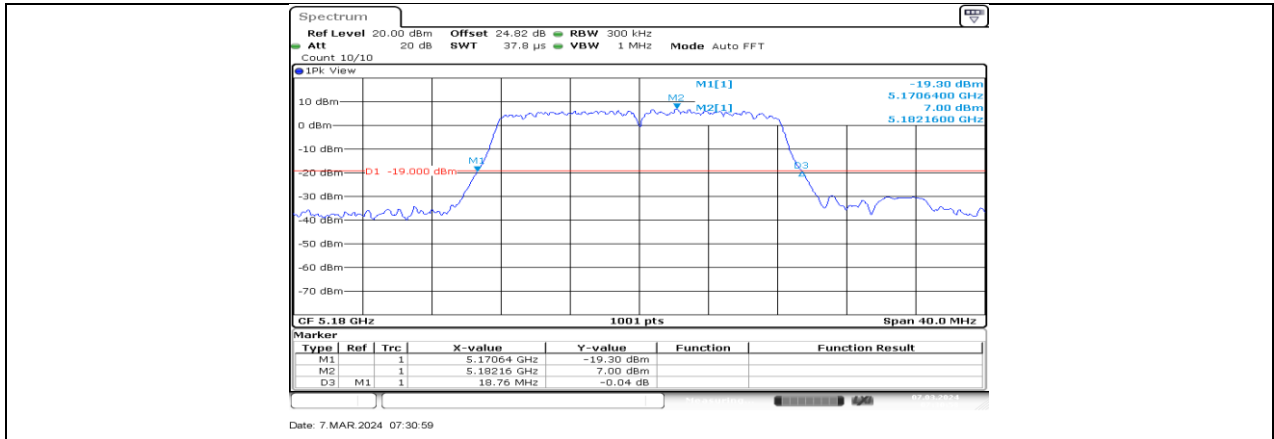
11.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict	
11A	Ant1	5180	18.76	5170.64	5189.40	PASS	
	Ant3	5180	18.96	5170.52	5189.48	PASS	
	Ant1	5200	18.36	5190.84	5209.20	PASS	
	Ant3	5200	18.56	5190.76	5209.32	PASS	
	Ant1	5240	18.80	5230.60	5249.40	PASS	
	Ant3	5240	18.72	5230.68	5249.40	PASS	
	Ant1	5260	18.76	5250.60	5269.36	PASS	
	Ant3	5260	18.84	5250.64	5269.48	PASS	
	Ant1	5280	18.96	5270.48	5289.44	PASS	
	Ant3	5280	18.68	5270.72	5289.40	PASS	
	Ant1	5320	18.72	5310.64	5329.36	PASS	
	Ant3	5320	18.80	5310.56	5329.36	PASS	
	Ant1	5500	18.76	5490.56	5509.32	PASS	
	Ant3	5500	18.96	5490.56	5509.52	PASS	
	Ant1	5580	18.68	5570.72	5589.40	PASS	
	Ant3	5580	18.76	5570.72	5589.48	PASS	
	Ant1	5700	18.88	5690.52	5709.40	PASS	
	Ant3	5700	18.52	5690.76	5709.28	PASS	
	Ant1	5720	18.48	5710.80	5729.28	PASS	
	Ant3	5720	18.52	5710.80	5729.32	PASS	
	Ant1	5720_UNII-2C	14.2	5710.80	5725	PASS	
	Ant3	5720_UNII-2C	14.2	5710.80	5725	PASS	
	Ant1	5720_UNII-3	4.28	5725	5729.28	PASS	
	Ant3	5720_UNII-3	4.32	5725	5729.32	PASS	
	Ant1	5745	18.52	5735.72	5754.24	PASS	
	Ant3	5745	18.76	5735.64	5754.40	PASS	
	Ant1	5785	18.80	5775.52	5794.32	PASS	
	Ant3	5785	18.48	5775.76	5794.24	PASS	
	Ant1	5825	18.72	5815.68	5834.40	PASS	
	Ant3	5825	18.64	5815.60	5834.24	PASS	
	11N20MIMO	Ant1	5180	19.68	5170.12	5189.80	PASS
		Ant3	5180	19.72	5170.12	5189.84	PASS
Ant1		5200	19.56	5190.20	5209.76	PASS	
Ant3		5200	19.72	5190.08	5209.80	PASS	
Ant1		5240	19.80	5230.20	5250.00	PASS	
Ant3		5240	19.92	5230.04	5249.96	PASS	
Ant1		5260	19.64	5250.20	5269.84	PASS	
Ant3		5260	19.64	5250.16	5269.80	PASS	
Ant1		5280	19.80	5270.12	5289.92	PASS	
Ant3		5280	19.56	5270.24	5289.80	PASS	
Ant1		5320	19.52	5310.24	5329.76	PASS	
Ant3		5320	19.68	5310.12	5329.80	PASS	
Ant1		5500	19.88	5490.08	5509.96	PASS	
Ant3		5500	19.80	5490.12	5509.92	PASS	
Ant1		5580	19.48	5570.16	5589.64	PASS	
Ant3		5580	19.68	5570.16	5589.84	PASS	
Ant1		5700	19.64	5690.20	5709.84	PASS	
Ant3		5700	19.52	5690.20	5709.72	PASS	
Ant1		5720	19.76	5710.20	5729.96	PASS	
Ant3		5720	19.76	5710.12	5729.88	PASS	
Ant1		5720_UNII-2C	14.8	5710.20	5725	PASS	
Ant3		5720_UNII-2C	14.88	5710.12	5725	PASS	
Ant1		5720_UNII-3	4.96	5725	5729.96	PASS	
Ant3		5720_UNII-3	4.88	5725	5729.88	PASS	
Ant1		5745	19.68	5735.08	5754.76	PASS	
Ant3		5745	19.52	5735.28	5754.80	PASS	

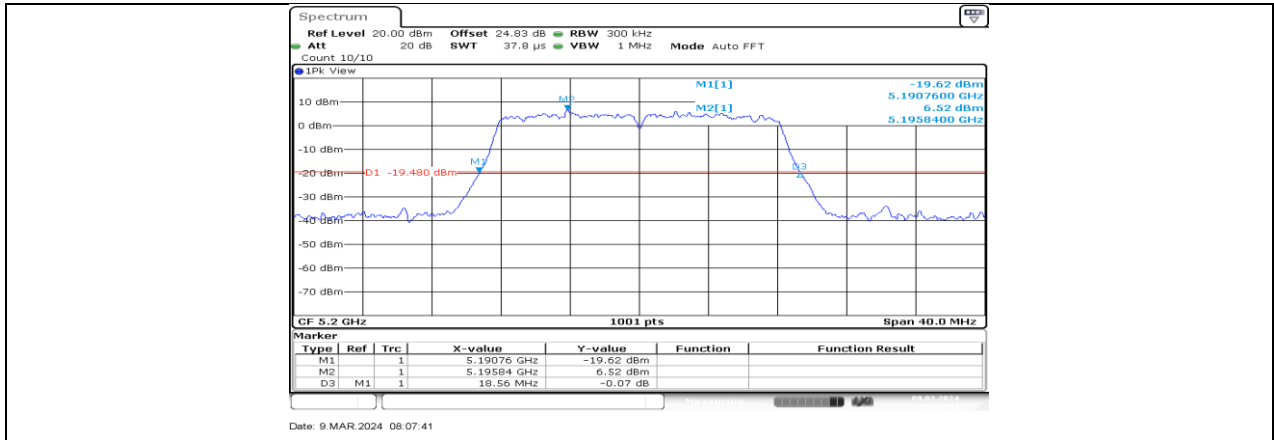
	Ant1	5785	19.64	5775.20	5794.84	PASS	
	Ant3	5785	19.68	5775.12	5794.80	PASS	
	Ant1	5825	19.76	5815.08	5834.84	PASS	
	Ant3	5825	19.76	5815.16	5834.92	PASS	
11N40MIMO	Ant1	5190	39.44	5170.32	5209.76	PASS	
	Ant3	5190	39.36	5170.32	5209.68	PASS	
	Ant1	5230	39.36	5210.32	5249.68	PASS	
	Ant3	5230	39.44	5210.32	5249.76	PASS	
	Ant1	5270	39.28	5250.32	5289.60	PASS	
	Ant3	5270	39.44	5250.32	5289.76	PASS	
	Ant1	5310	39.44	5290.16	5329.60	PASS	
	Ant3	5310	39.52	5290.24	5329.76	PASS	
	Ant1	5510	39.52	5490.32	5529.84	PASS	
	Ant3	5510	39.52	5490.32	5529.84	PASS	
	Ant1	5550	39.52	5530.32	5569.84	PASS	
	Ant3	5550	39.36	5530.32	5569.68	PASS	
	Ant1	5670	39.60	5650.24	5689.84	PASS	
	Ant3	5670	39.52	5650.32	5689.84	PASS	
	Ant1	5710	39.52	5690.24	5729.76	PASS	
	Ant3	5710	39.44	5690.32	5729.76	PASS	
	Ant1	5710_UNII-2C	34.76	5690.24	5725	PASS	
	Ant3	5710_UNII-2C	34.68	5690.32	5725	PASS	
	Ant1	5710_UNII-3	4.76	5725	5729.76	PASS	
	Ant3	5710_UNII-3	4.76	5725	5729.76	PASS	
	Ant1	5755	39.60	5735.24	5774.84	PASS	
	Ant3	5755	39.44	5735.24	5774.68	PASS	
	Ant1	5795	39.60	5775.24	5814.84	PASS	
	Ant3	5795	39.44	5775.32	5814.76	PASS	
11AC80MIMO	Ant1	5210	88.16	5166.00	5254.16	PASS	
	Ant3	5210	87.68	5166.00	5253.68	PASS	
	Ant1	5290	87.84	5246.32	5334.16	PASS	
	Ant3	5290	88.00	5245.84	5333.84	PASS	
	Ant1	5530	87.84	5485.68	5573.52	PASS	
	Ant3	5530	88.00	5485.84	5573.84	PASS	
	Ant1	5610	88.16	5566.00	5654.16	PASS	
	Ant3	5610	88.16	5566.00	5654.16	PASS	
	Ant1	5690	88.64	5645.84	5734.48	PASS	
	Ant3	5690	88.16	5646.00	5734.16	PASS	
	Ant1	5690_UNII-2C	79.16	5645.84	5725	PASS	
	Ant3	5690_UNII-2C	79	5646.00	5725	PASS	
	Ant1	5690_UNII-3	9.48	5725	5734.48	PASS	
	Ant3	5690_UNII-3	9.16	5725	5734.16	PASS	
	Ant1	5775	87.84	5731.32	5819.16	PASS	
	Ant3	5775	87.52	5731.00	5818.52	PASS	
	11AX20MIMO	Ant1	5180	20.68	5169.68	5190.36	PASS
		Ant3	5180	20.60	5169.72	5190.32	PASS
Ant1		5200	20.76	5189.52	5210.28	PASS	
Ant3		5200	20.56	5189.80	5210.36	PASS	
Ant1		5240	20.68	5229.56	5250.24	PASS	
Ant3		5240	20.60	5229.52	5250.12	PASS	
Ant1		5260	20.56	5249.76	5270.32	PASS	
Ant3		5260	20.60	5249.72	5270.32	PASS	
Ant1		5280	20.76	5269.52	5290.28	PASS	
Ant3		5280	20.56	5269.76	5290.32	PASS	
Ant1		5320	20.64	5309.68	5330.32	PASS	
Ant3		5320	20.44	5309.76	5330.20	PASS	
Ant1		5500	20.48	5489.56	5510.04	PASS	
Ant3		5500	20.76	5489.64	5510.40	PASS	
Ant1		5580	20.40	5569.92	5590.32	PASS	
Ant3		5580	20.80	5569.52	5590.32	PASS	
Ant1		5700	20.56	5689.76	5710.32	PASS	
Ant3		5700	20.56	5689.76	5710.32	PASS	
Ant1		5720	20.40	5709.88	5730.28	PASS	
Ant3		5720	20.56	5709.84	5730.40	PASS	

	Ant1	5720_UNII-2C	15.12	5709.88	5725	PASS	
	Ant3	5720_UNII-2C	15.16	5709.84	5725	PASS	
	Ant1	5720_UNII-3	5.28	5725	5730.28	PASS	
	Ant3	5720_UNII-3	5.4	5725	5730.40	PASS	
	Ant1	5745	20.20	5734.88	5755.08	PASS	
	Ant3	5745	20.48	5734.76	5755.24	PASS	
	Ant1	5785	20.40	5774.80	5795.20	PASS	
	Ant3	5785	20.76	5774.64	5795.40	PASS	
	Ant1	5825	20.60	5814.72	5835.32	PASS	
	Ant3	5825	20.48	5814.80	5835.28	PASS	
11AX40MIMO	Ant1	5190	39.60	5170.24	5209.84	PASS	
	Ant3	5190	39.36	5170.40	5209.76	PASS	
	Ant1	5230	39.44	5210.32	5249.76	PASS	
	Ant3	5230	39.44	5210.24	5249.68	PASS	
	Ant1	5270	39.44	5250.32	5289.76	PASS	
	Ant3	5270	39.36	5250.40	5289.76	PASS	
	Ant1	5310	39.44	5290.24	5329.68	PASS	
	Ant3	5310	39.52	5290.32	5329.84	PASS	
	Ant1	5510	39.68	5490.24	5529.92	PASS	
	Ant3	5510	39.52	5490.24	5529.76	PASS	
	Ant1	5550	39.60	5530.24	5569.84	PASS	
	Ant3	5550	39.44	5530.32	5569.76	PASS	
	Ant1	5670	39.68	5650.16	5689.84	PASS	
	Ant3	5670	39.60	5650.24	5689.84	PASS	
	Ant1	5710	39.68	5690.24	5729.92	PASS	
	Ant3	5710	39.44	5690.32	5729.76	PASS	
		Ant1	5710_UNII-2C	34.76	5690.24	5725	PASS
		Ant3	5710_UNII-2C	34.68	5690.32	5725	PASS
		Ant1	5710_UNII-3	4.92	5725	5729.92	PASS
		Ant3	5710_UNII-3	4.76	5725	5729.76	PASS
		Ant1	5755	39.68	5735.08	5774.76	PASS
		Ant3	5755	39.44	5735.32	5774.76	PASS
		Ant1	5795	39.76	5775.16	5814.92	PASS
		Ant3	5795	39.44	5775.32	5814.76	PASS
11AX80MIMO	Ant1	5210	81.76	5169.04	5250.80	PASS	
	Ant3	5210	81.12	5169.68	5250.80	PASS	
	Ant1	5290	81.92	5249.04	5330.96	PASS	
	Ant3	5290	81.76	5249.36	5331.12	PASS	
	Ant1	5530	81.92	5488.88	5570.80	PASS	
	Ant3	5530	81.60	5489.52	5571.12	PASS	
	Ant1	5610	81.60	5569.20	5650.80	PASS	
	Ant3	5610	81.60	5569.20	5650.80	PASS	
	Ant1	5690	82.24	5649.04	5731.28	PASS	
	Ant3	5690	81.44	5649.36	5730.80	PASS	
		Ant1	5690_UNII-2C	75.96	5649.04	5725	PASS
		Ant3	5690_UNII-2C	75.64	5649.36	5725	PASS
		Ant1	5690_UNII-3	6.28	5725	5731.28	PASS
		Ant3	5690_UNII-3	5.8	5725	5730.80	PASS
		Ant1	5775	81.92	5734.36	5816.28	PASS
		Ant3	5775	81.76	5734.20	5815.96	PASS

11.1.2. Test Graphs

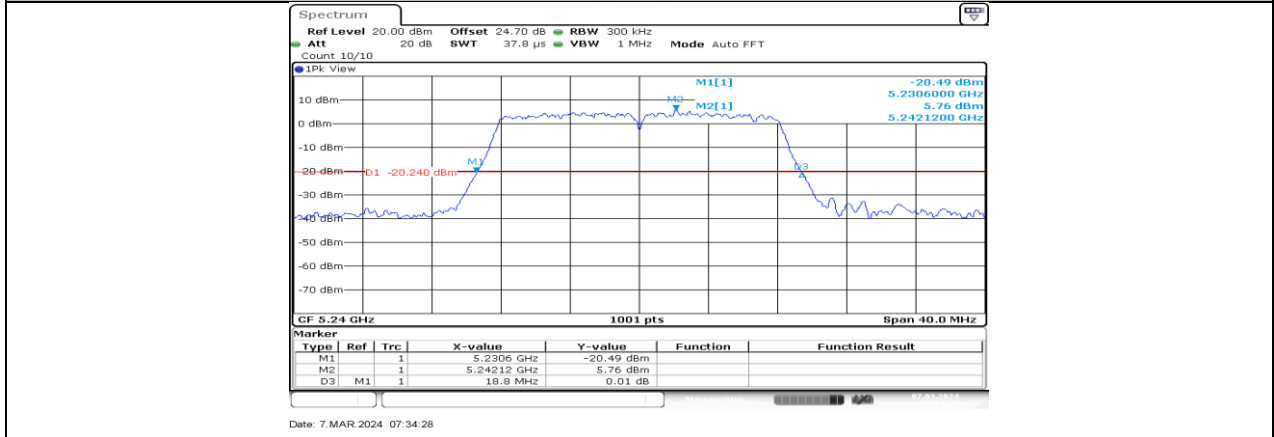


11A_Ant1_5200



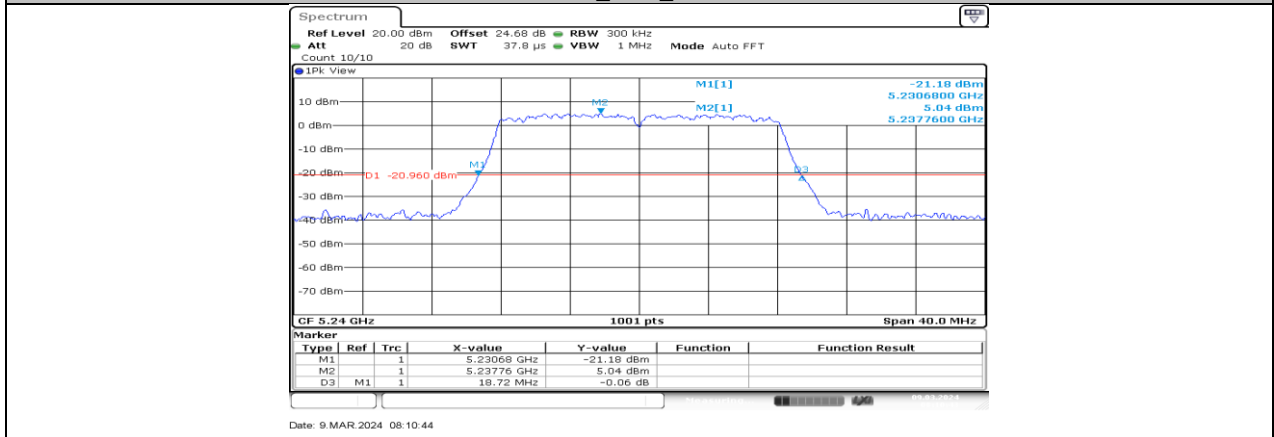
Date: 9 MAR 2024 08:07:41

11A_Ant3_5200



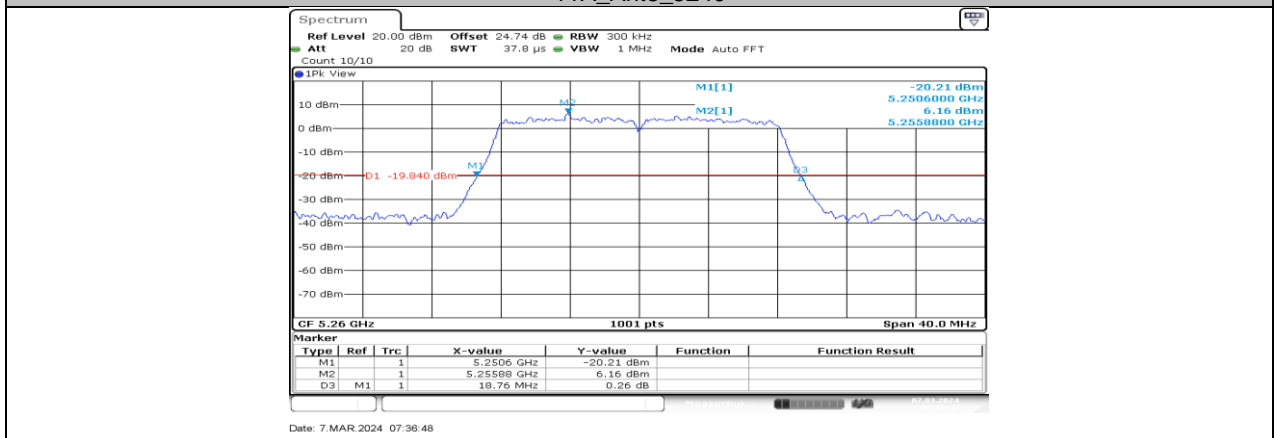
Date: 7 MAR 2024 07:34:28

11A_Ant1_5240

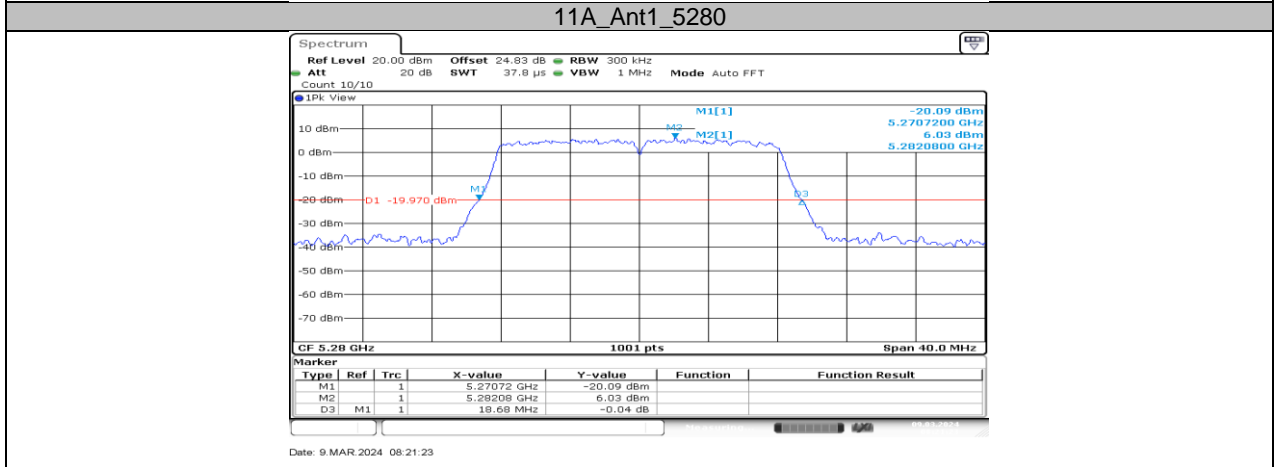
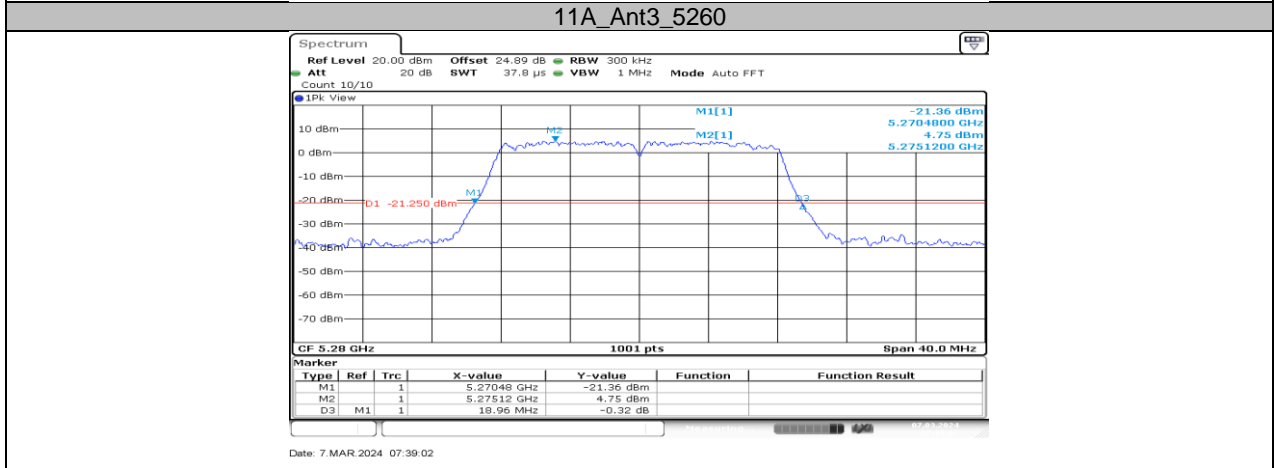
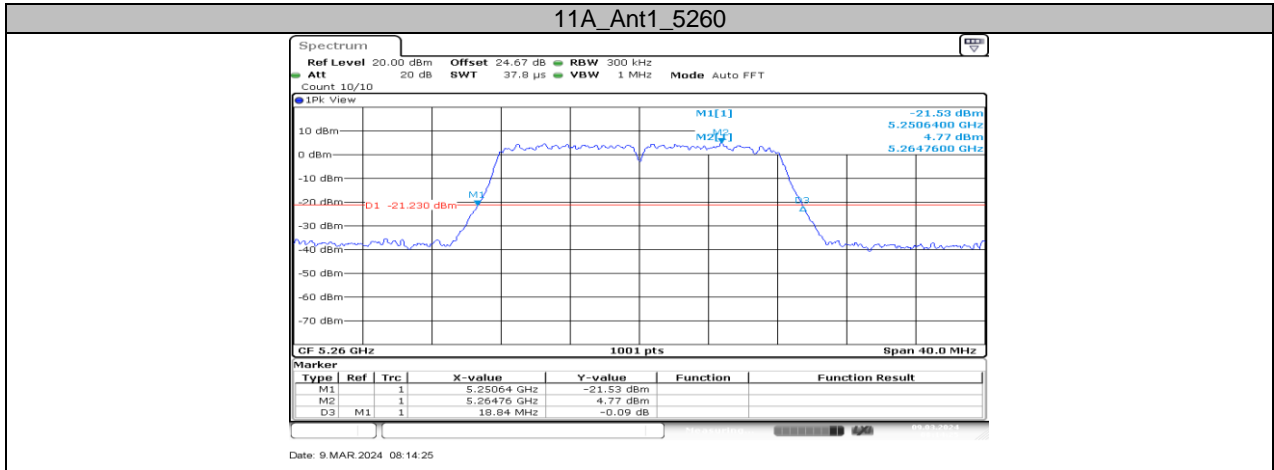


Date: 9 MAR 2024 08:10:44

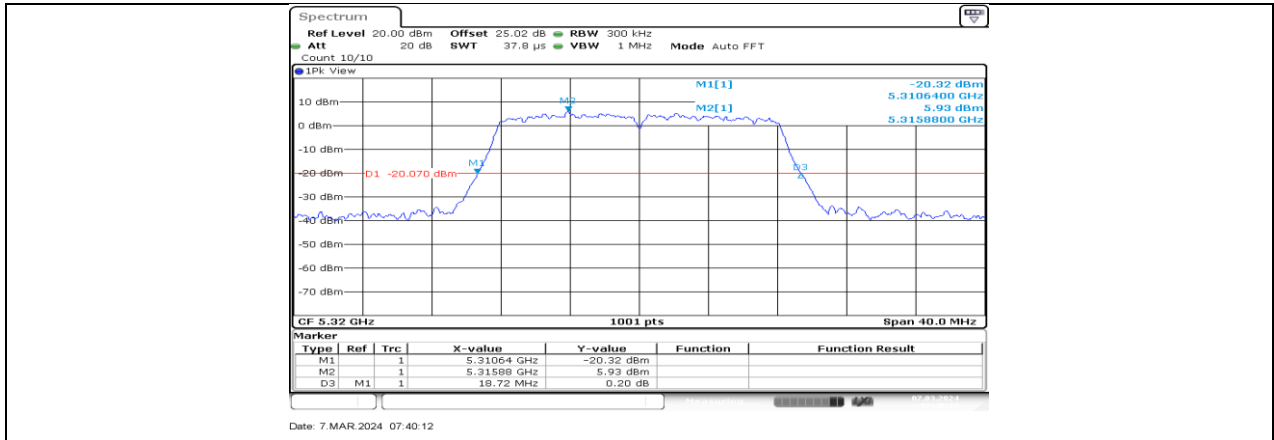
11A_Ant3_5240



Date: 7 MAR 2024 07:38:48

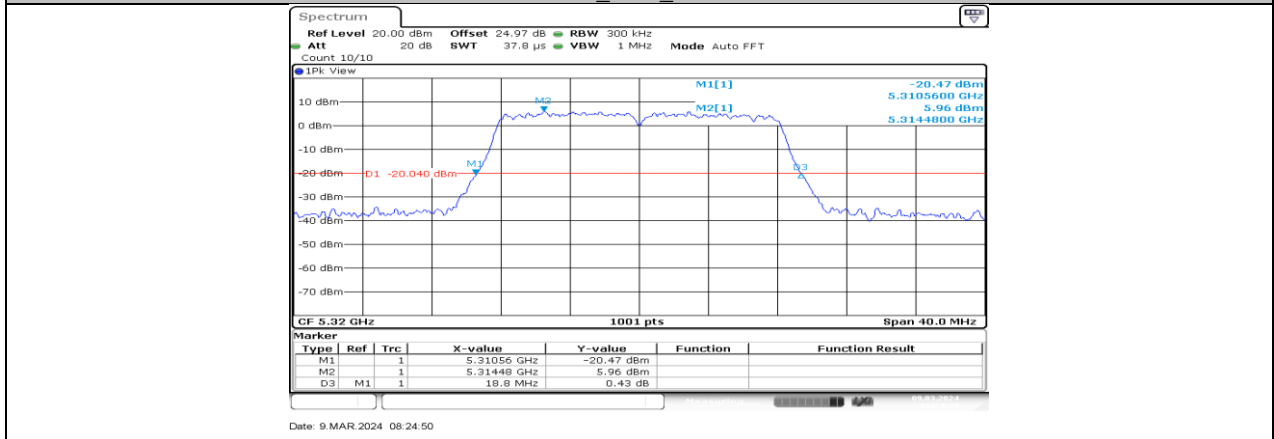


11A_Ant3_5280



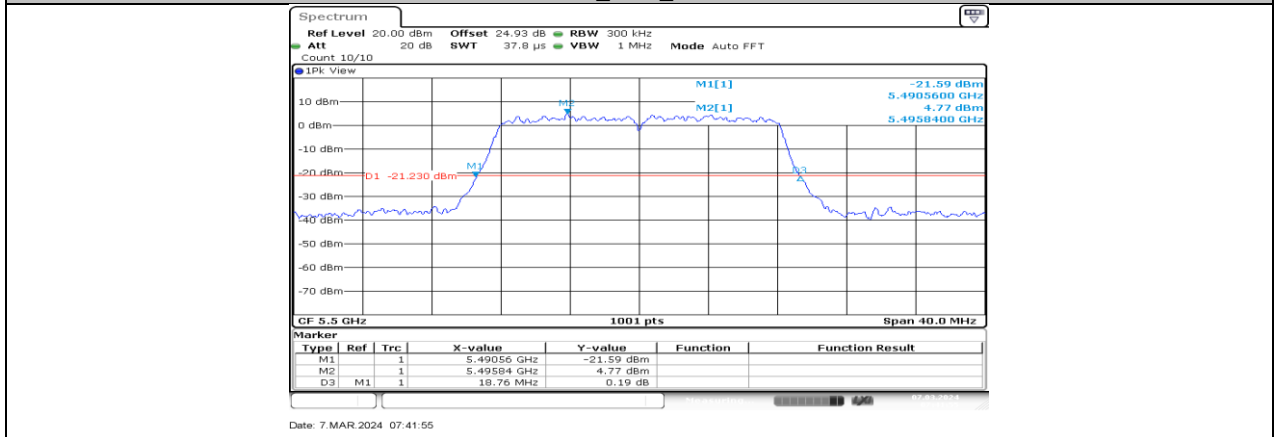
Date: 7. MAR 2024 07:40:12

11A_Ant1_5320



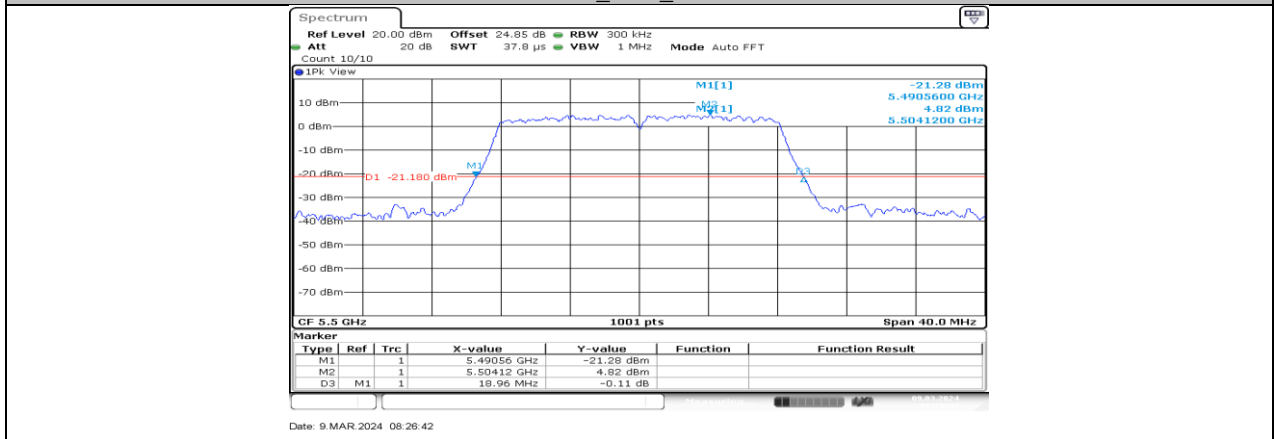
Date: 9. MAR 2024 08:24:50

11A_Ant3_5320

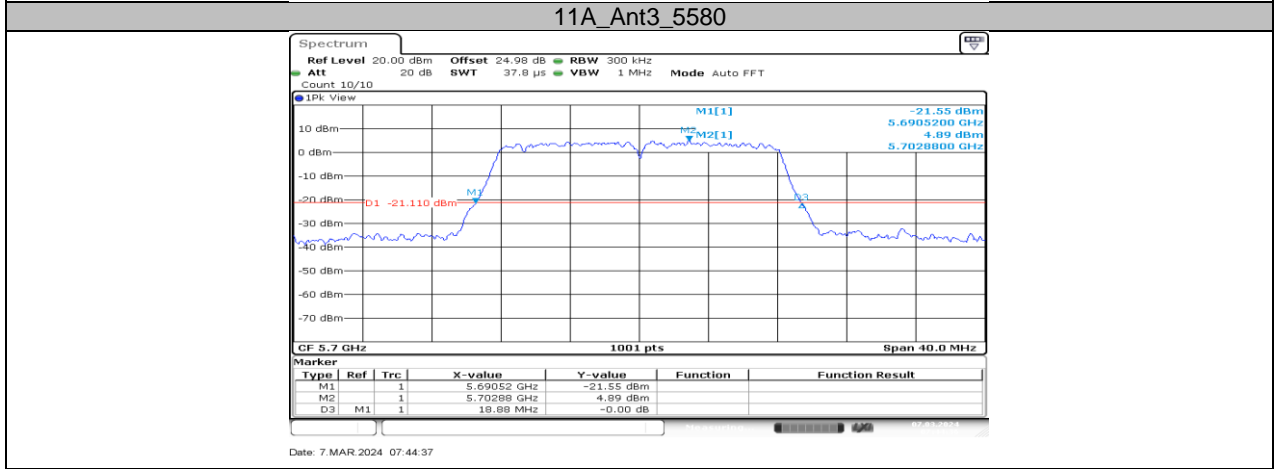
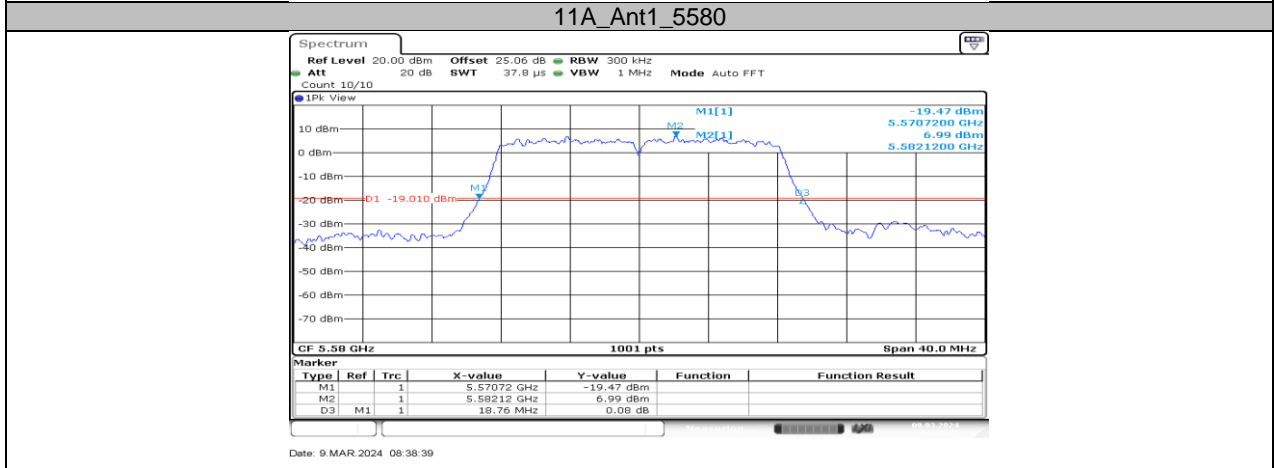
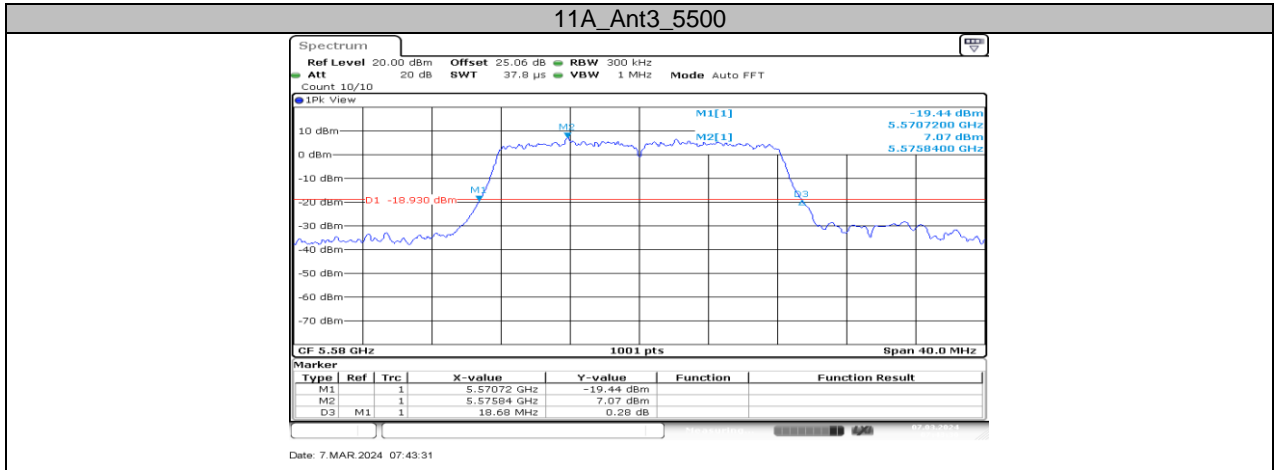


Date: 7. MAR 2024 07:41:55

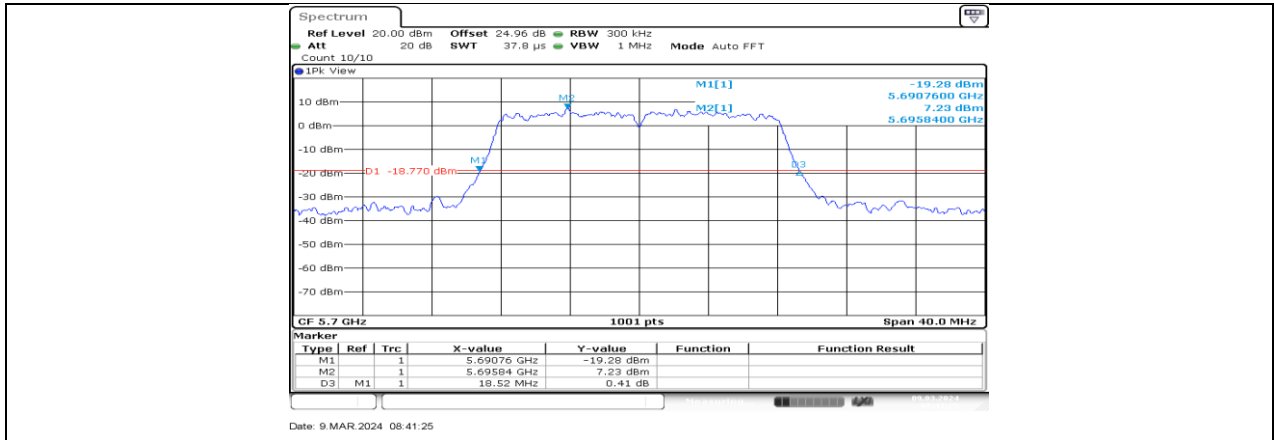
11A_Ant1_5500



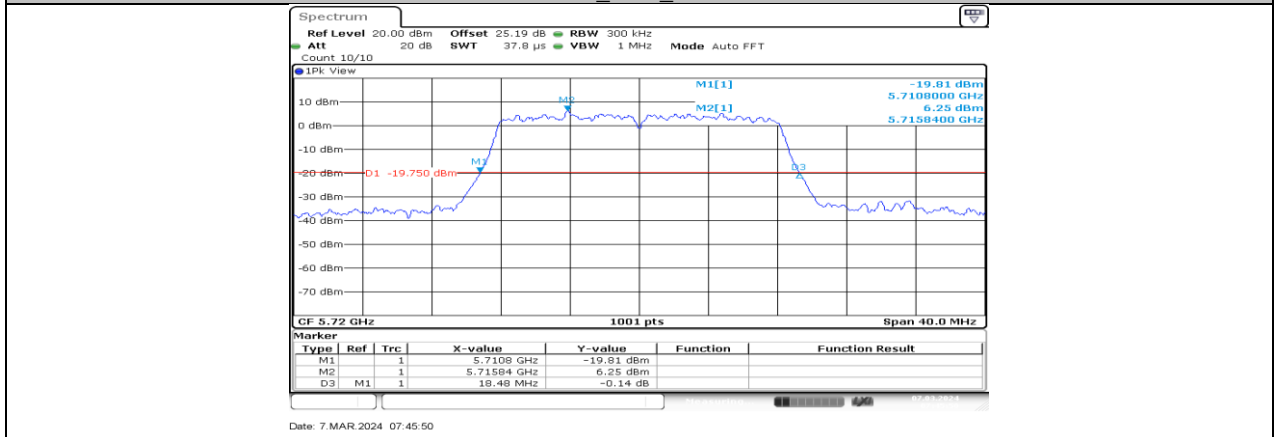
Date: 9. MAR 2024 08:28:42



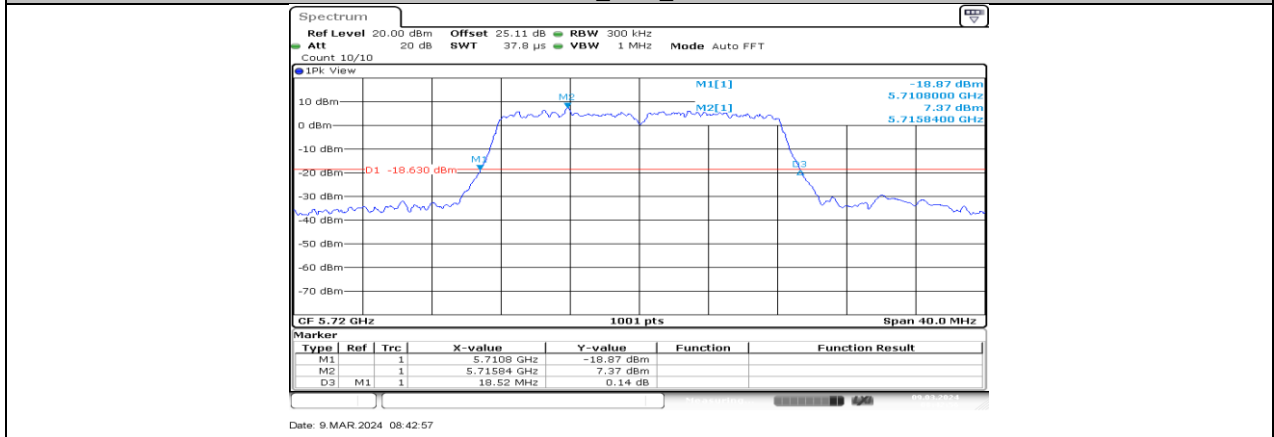
11A_Ant1_5700



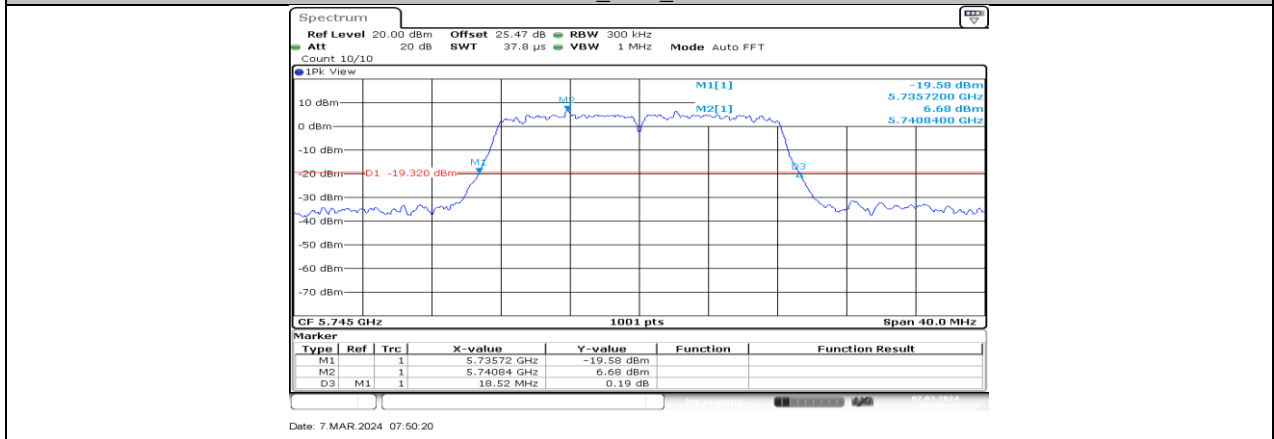
11A_Ant3_5700

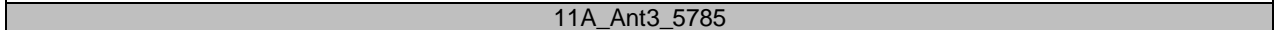
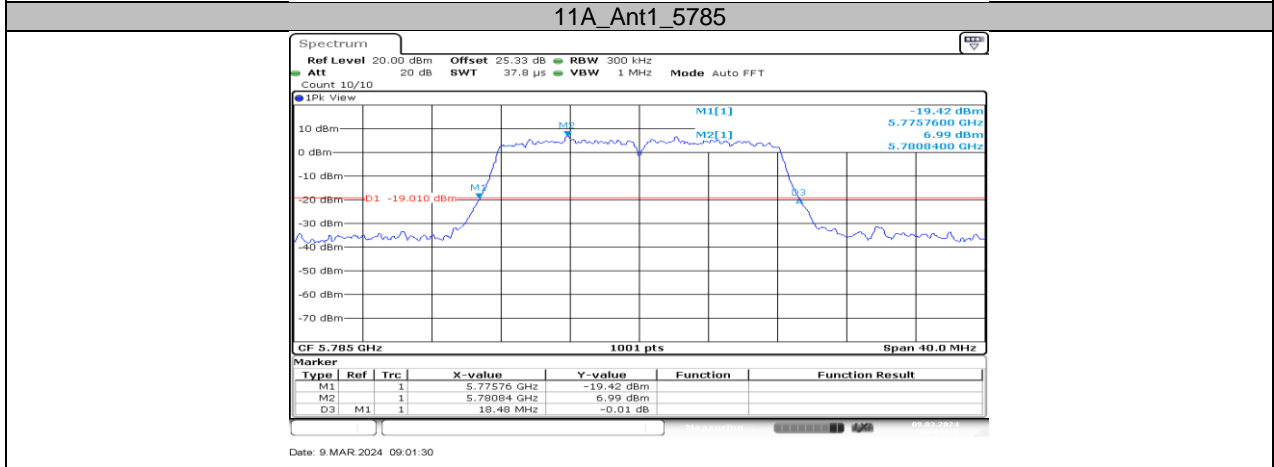
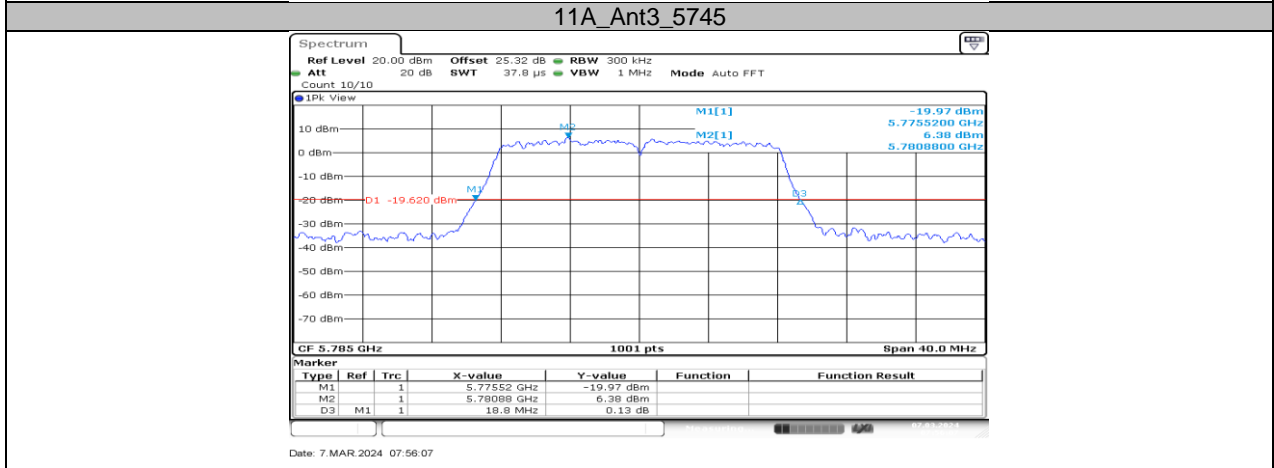
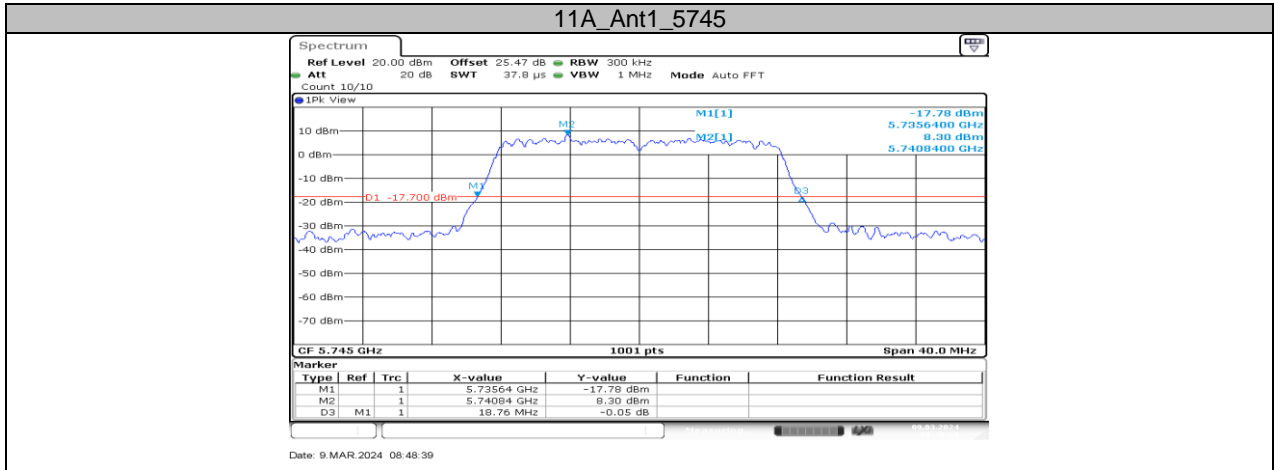


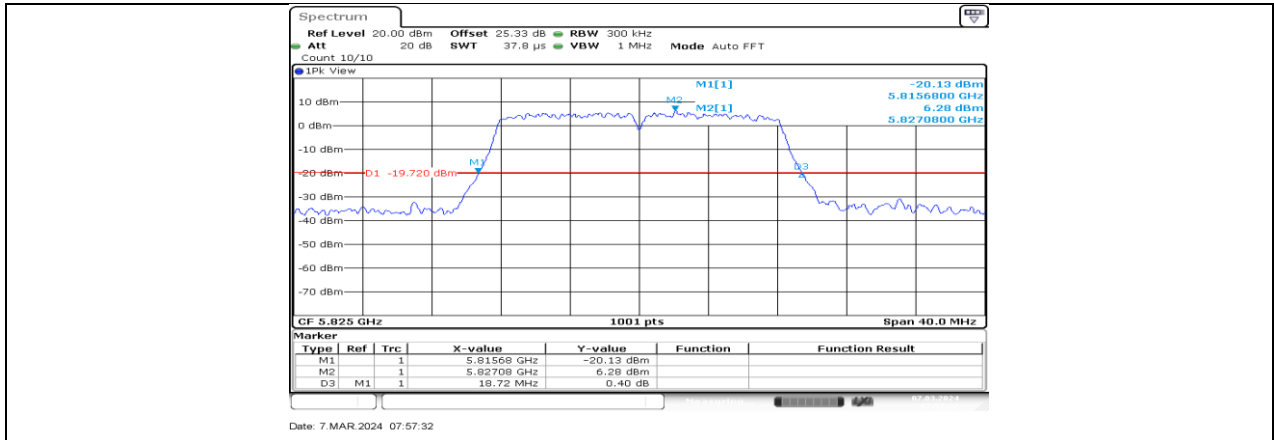
11A_Ant1_5720



11A_Ant3_5720

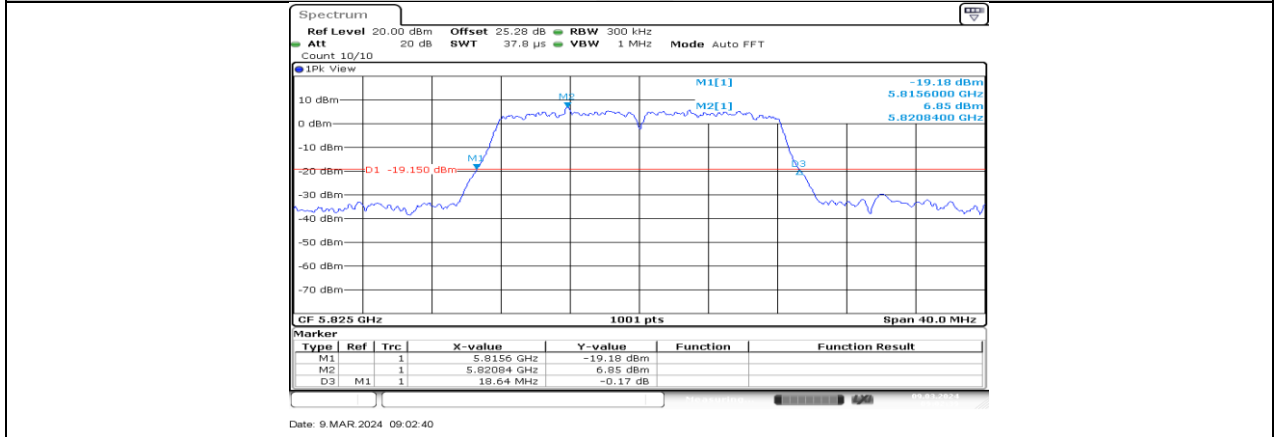






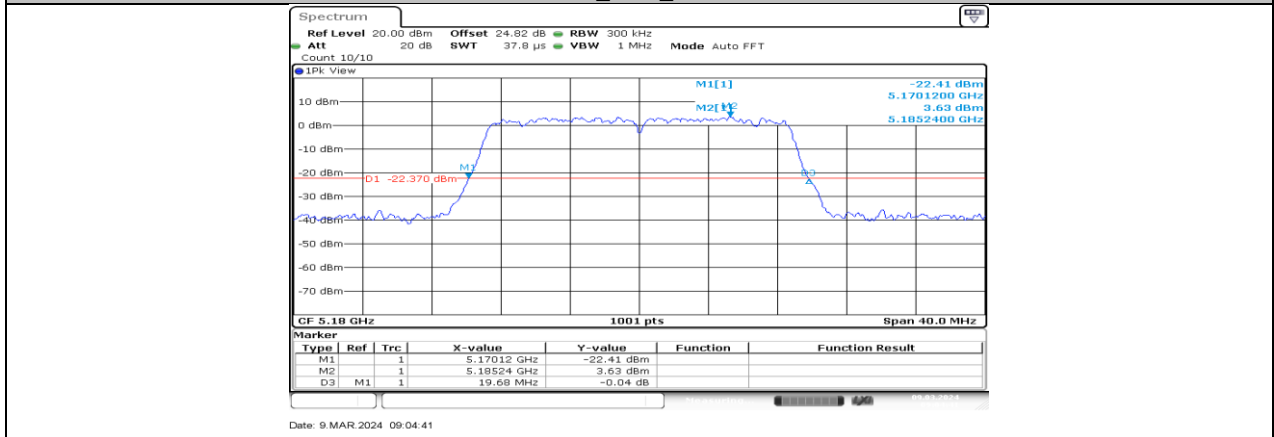
Date: 7.MAR.2024 07:57:32

11A_Ant1_5825



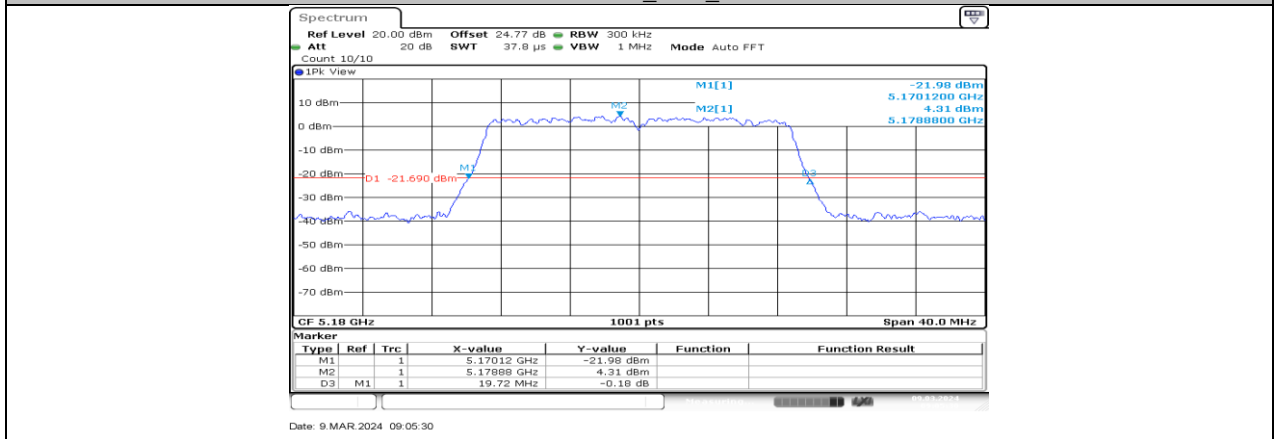
Date: 9.MAR.2024 09:02:40

11A_Ant3_5825

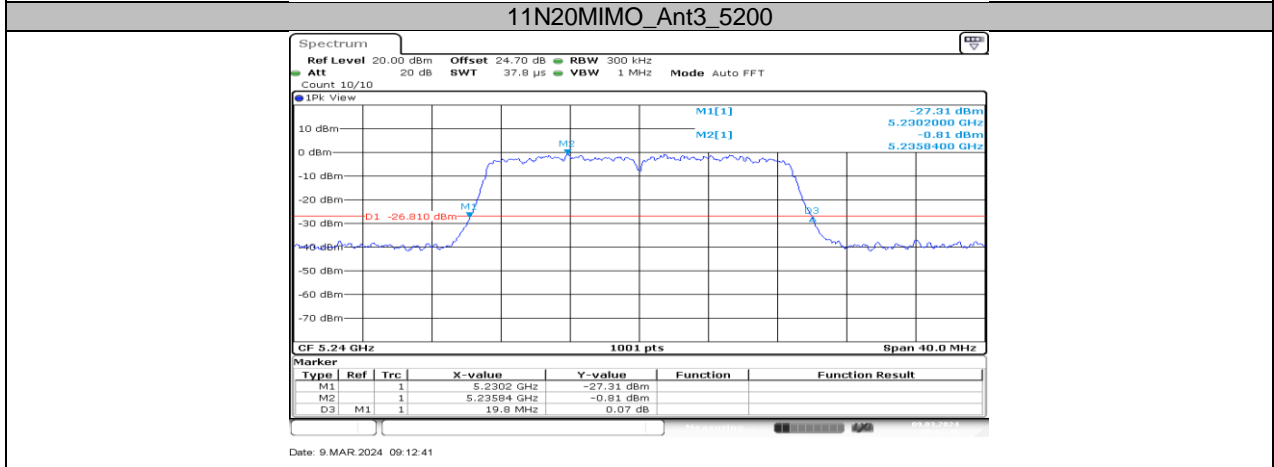
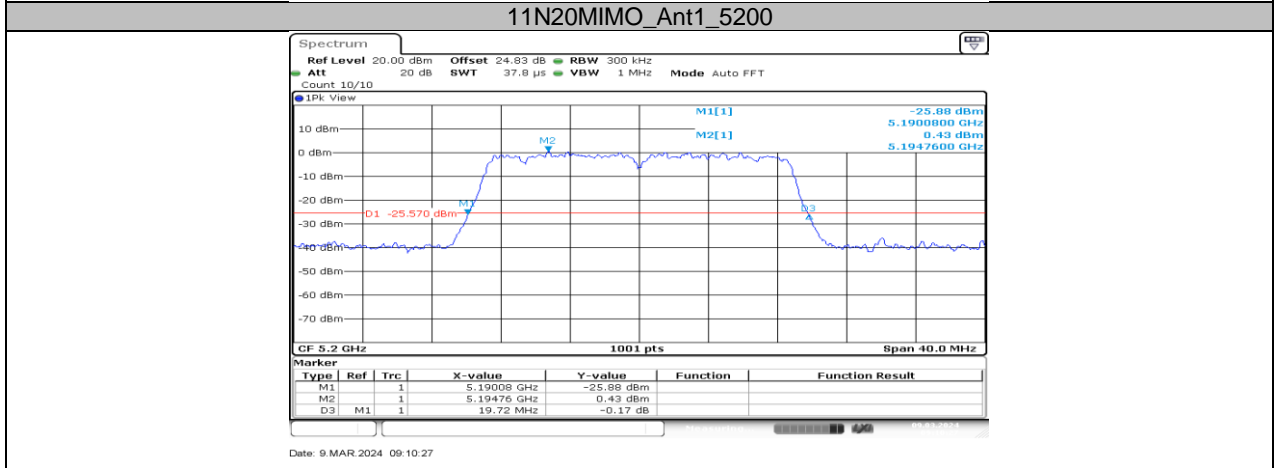
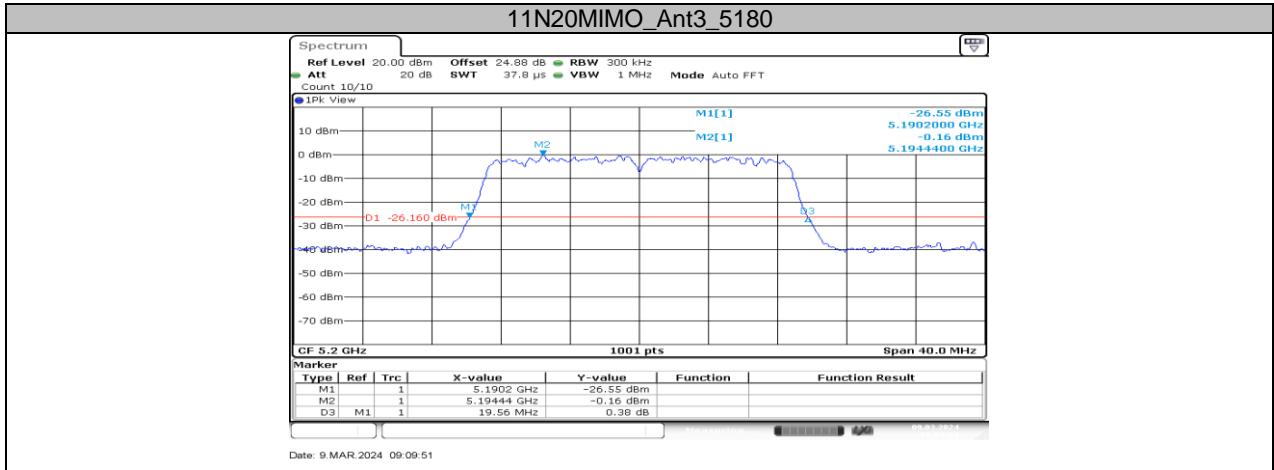


Date: 9.MAR.2024 09:04:41

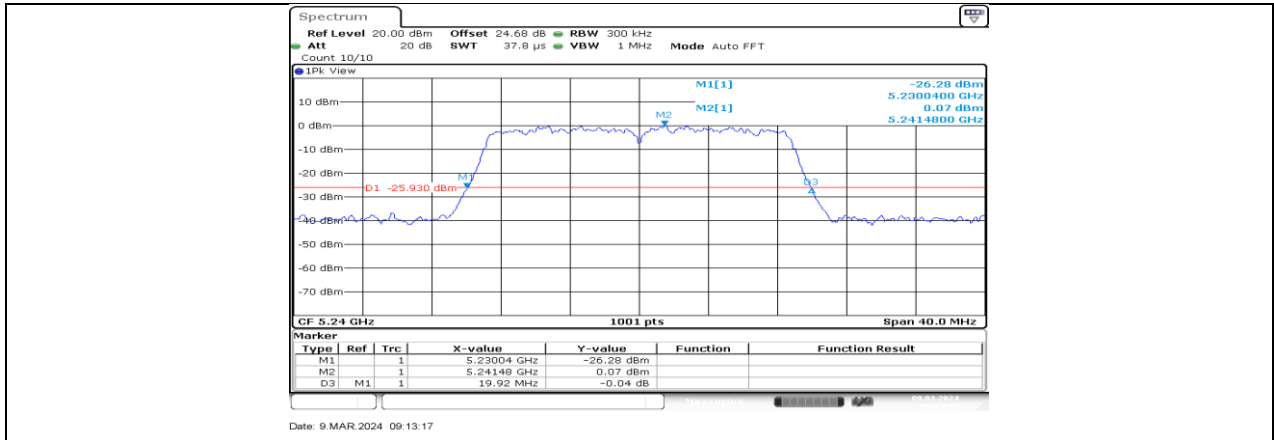
11N20MIMO_Ant1_5180



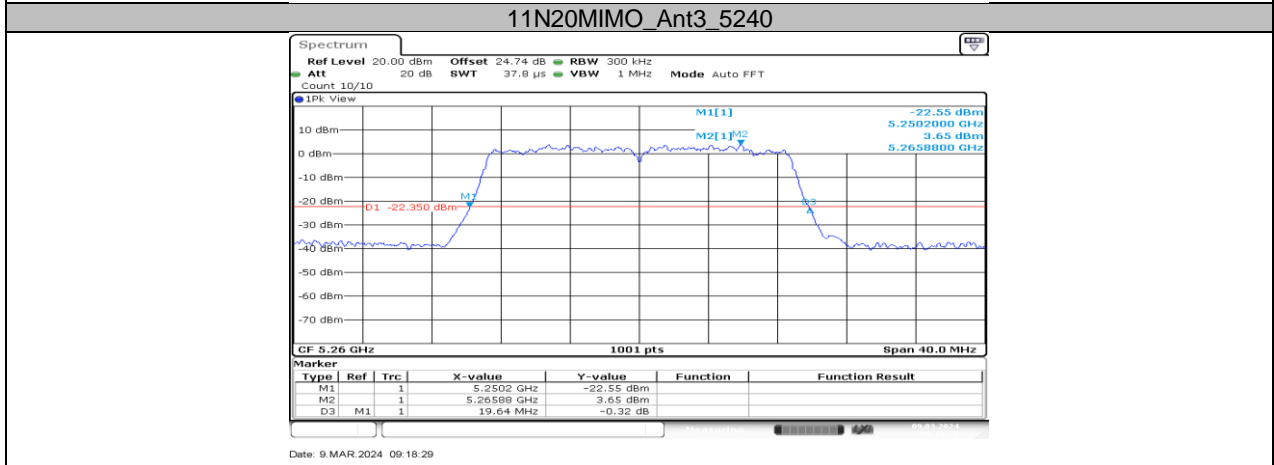
Date: 9.MAR.2024 09:05:30



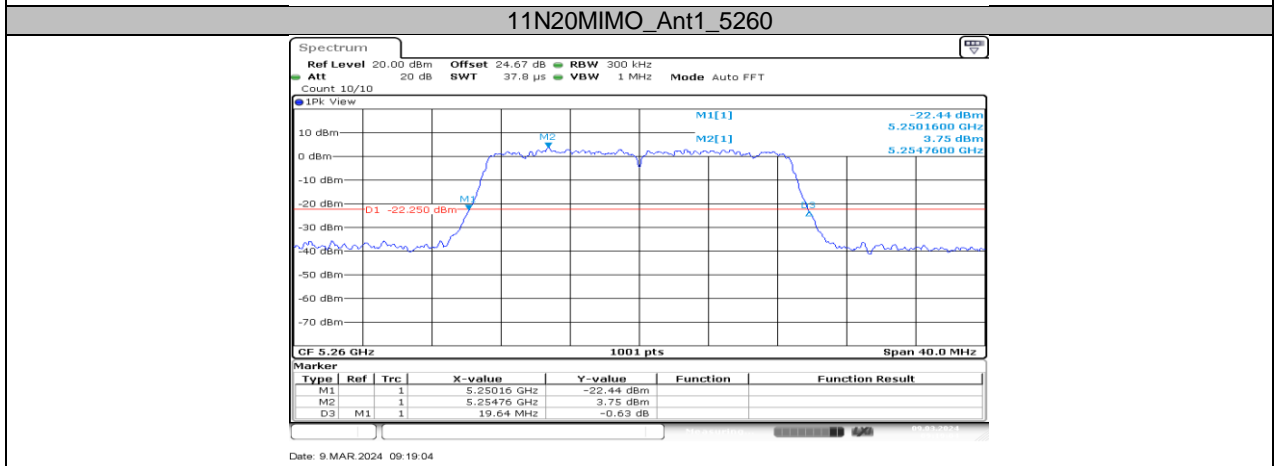
11N20MIMO_Ant1_5240



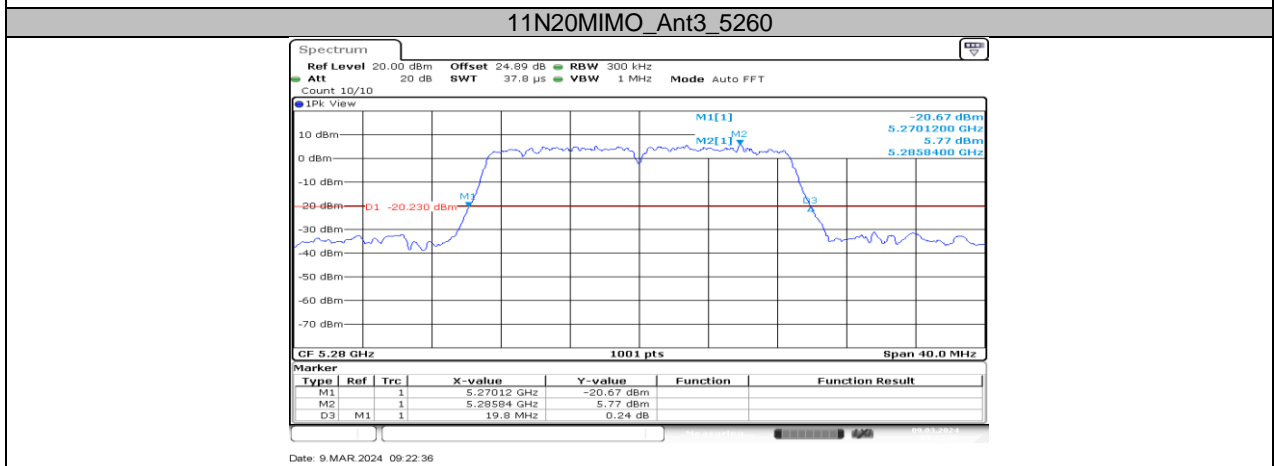
Date: 9 MAR 2024 09:13:17



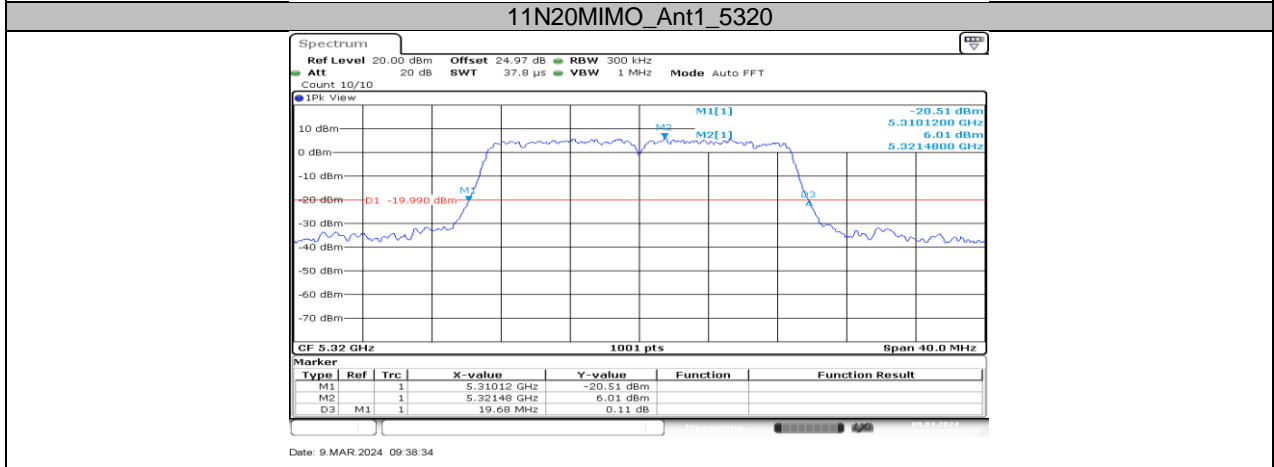
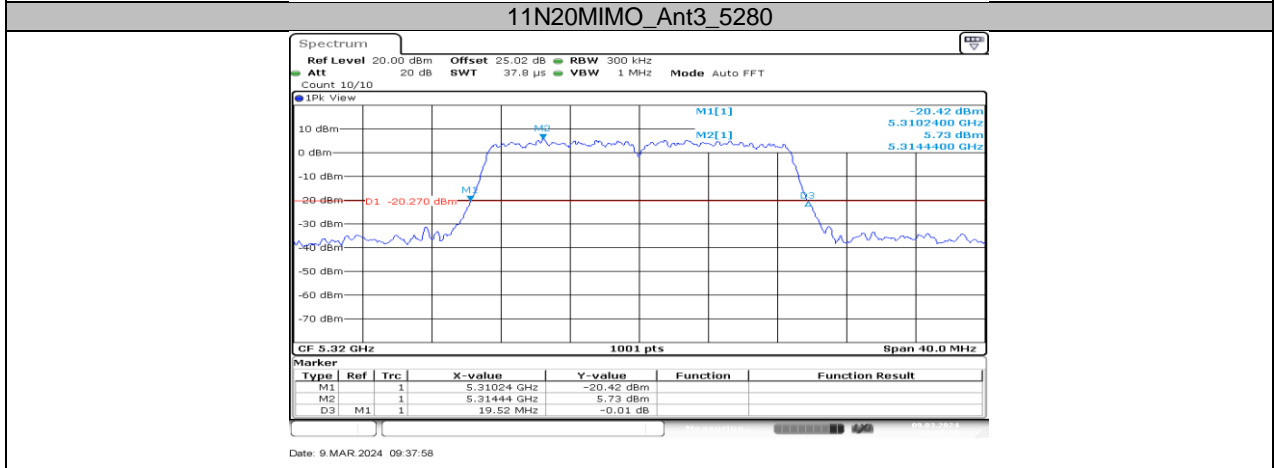
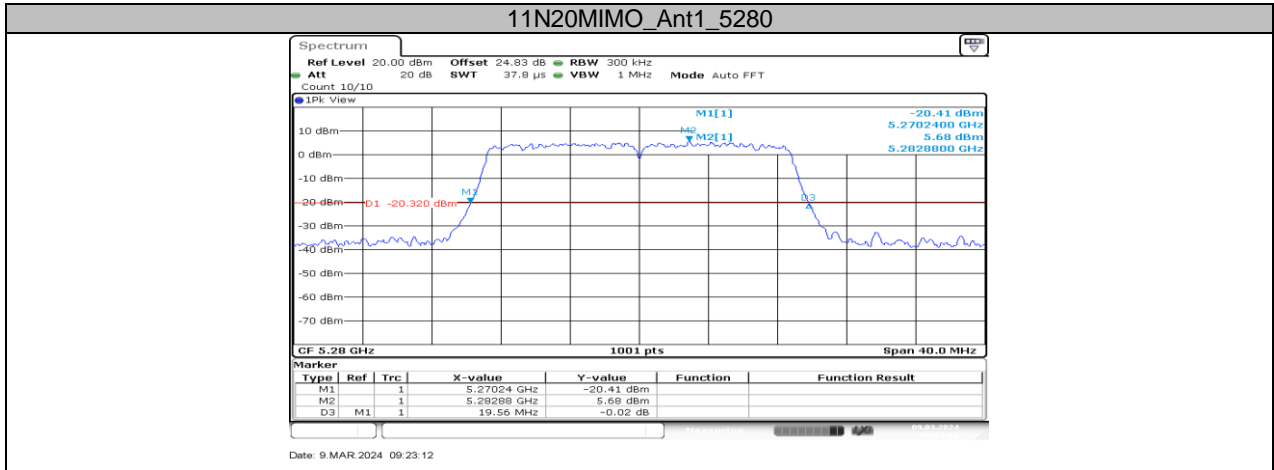
Date: 9 MAR 2024 09:18:29



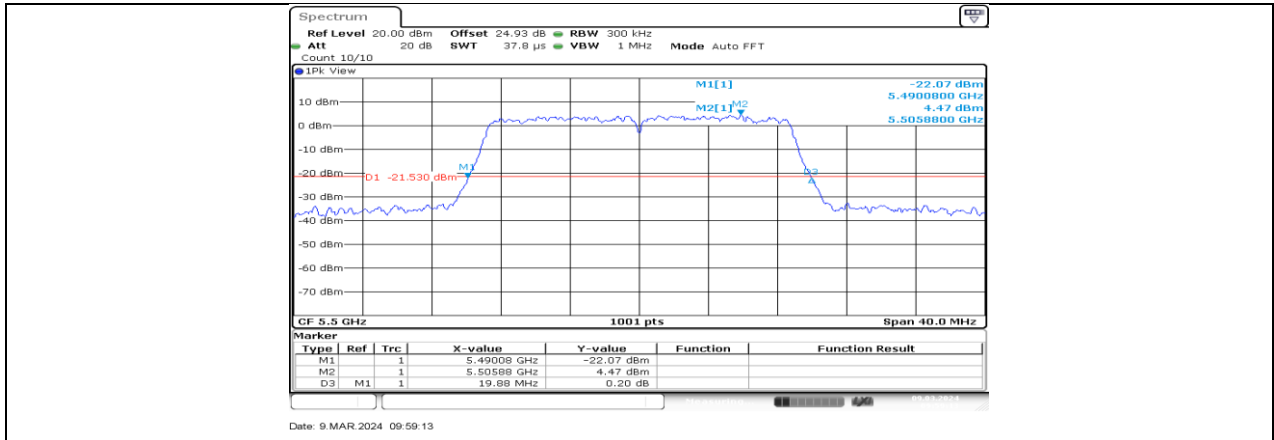
Date: 9 MAR 2024 09:19:04



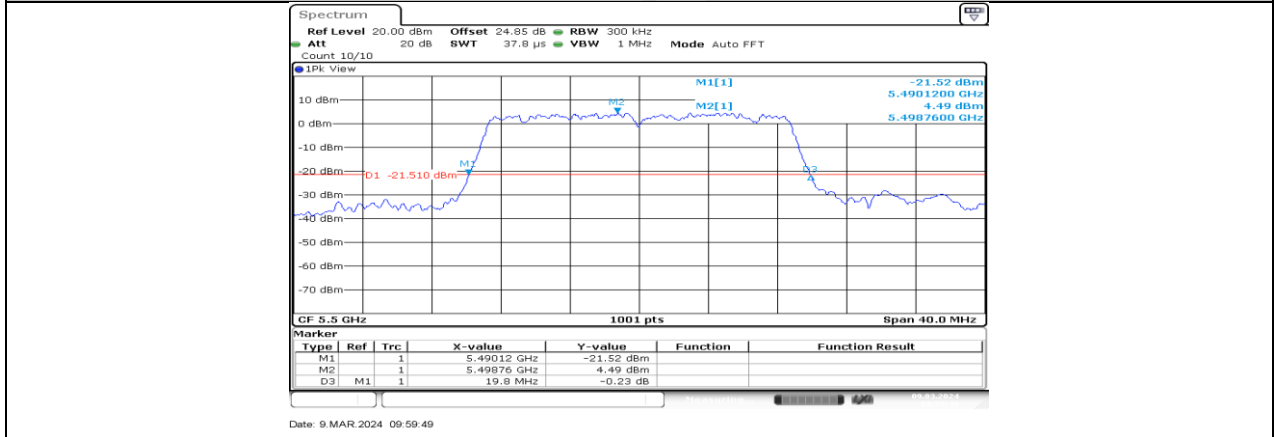
Date: 9 MAR 2024 09:22:36



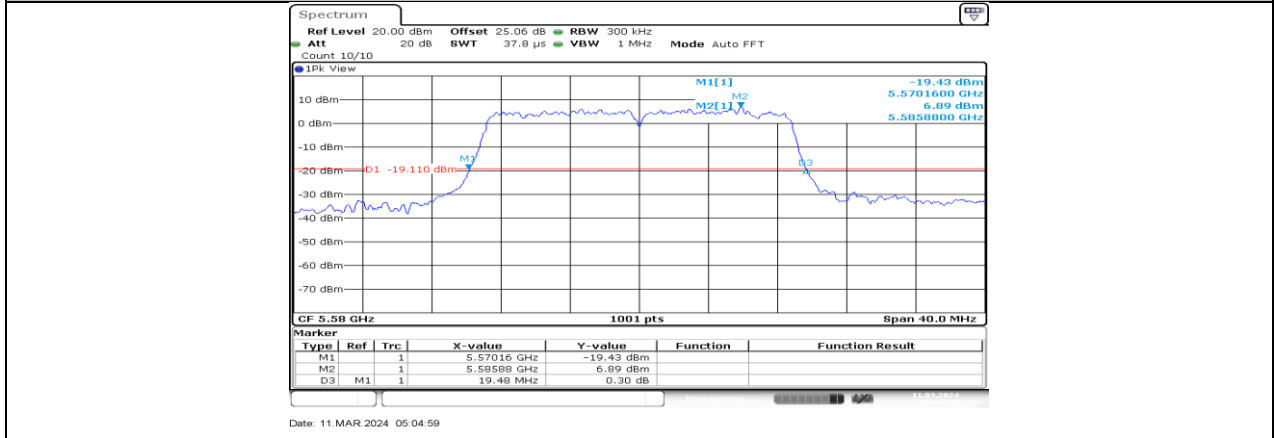
11N20MIMO_Ant3_5320



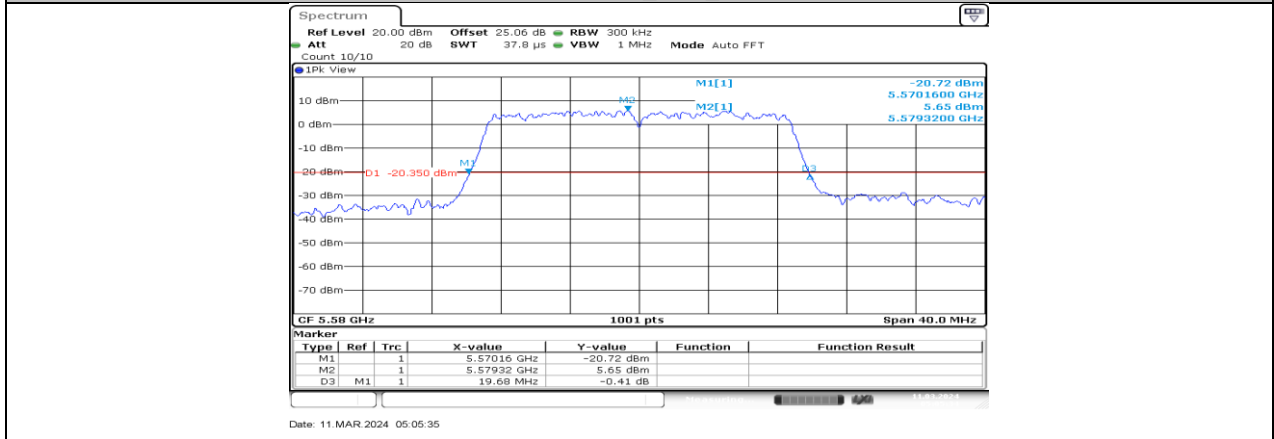
11N20MIMO_Ant1_5500

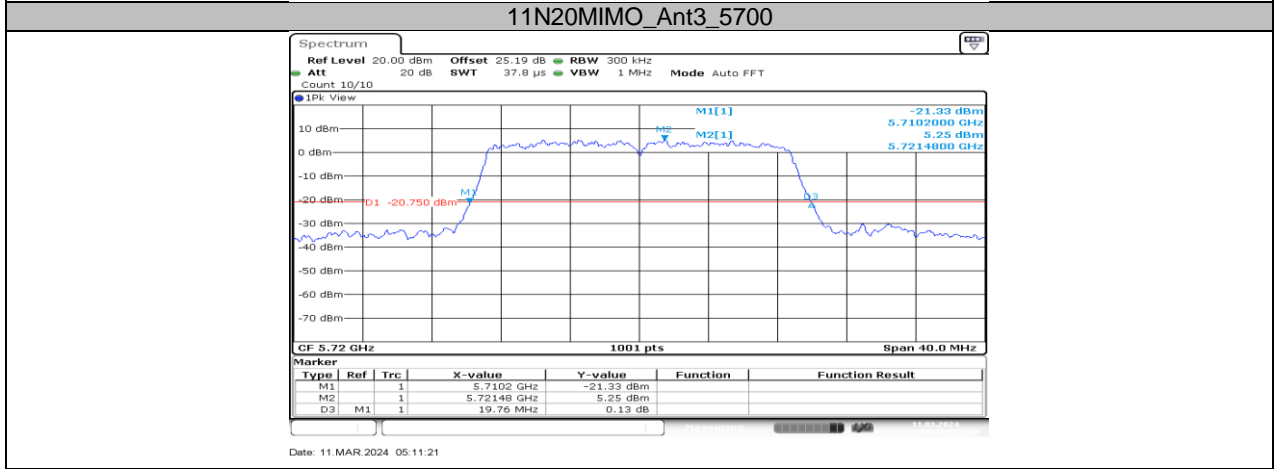
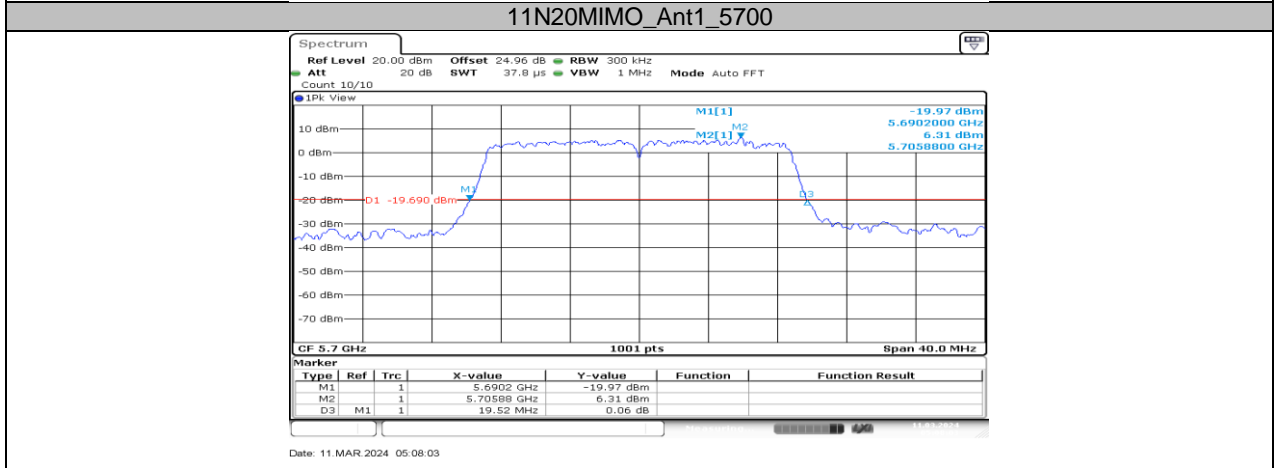
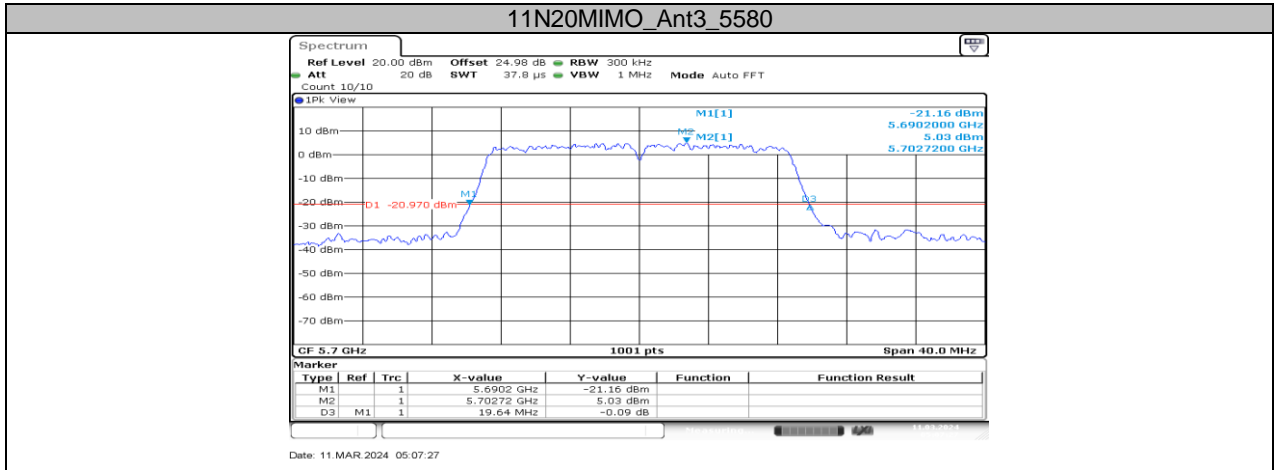


11N20MIMO_Ant3_5500

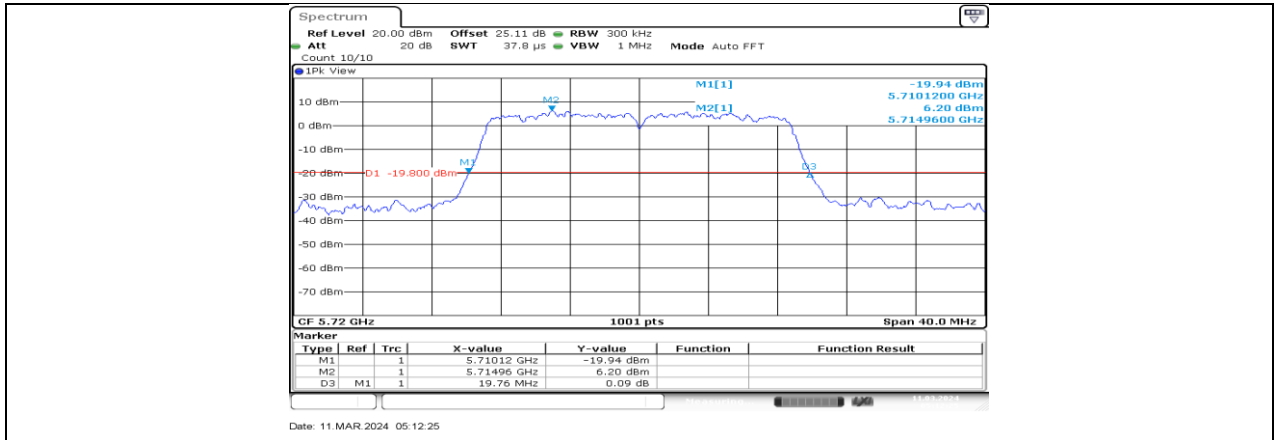


11N20MIMO_Ant1_5580

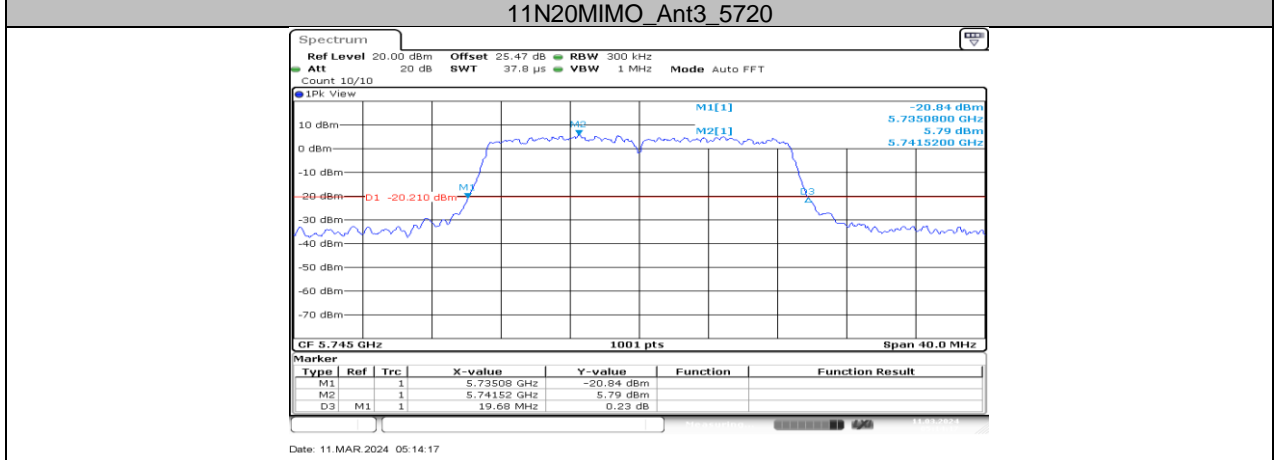




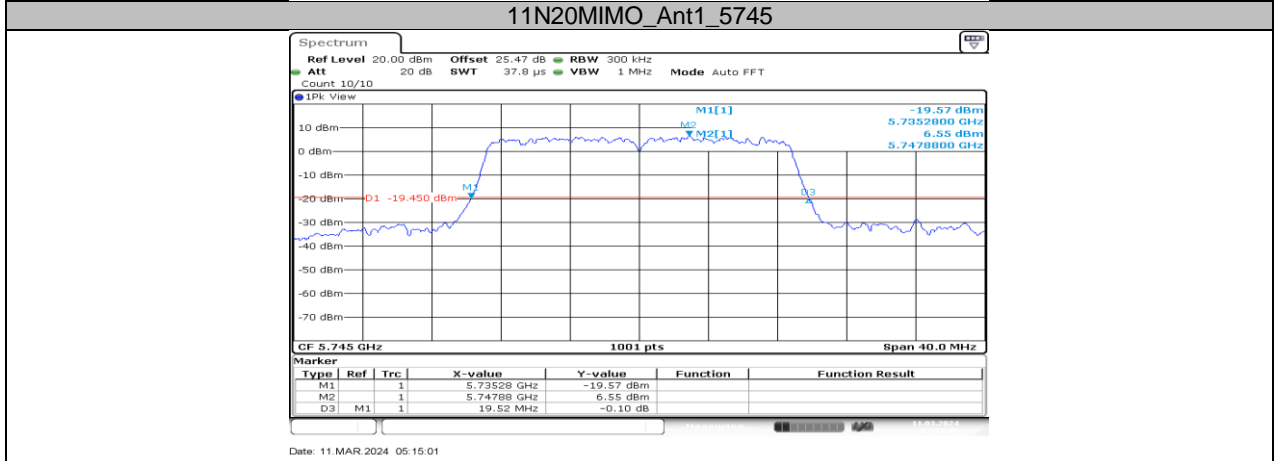
11N20MIMO_Ant1_5720



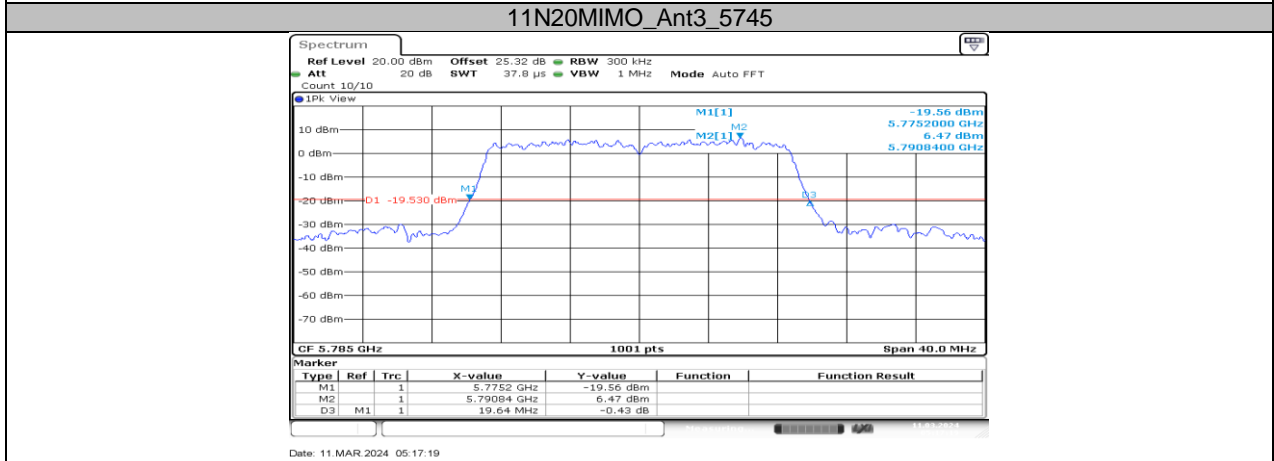
Date: 11.MAR 2024 05:12:25



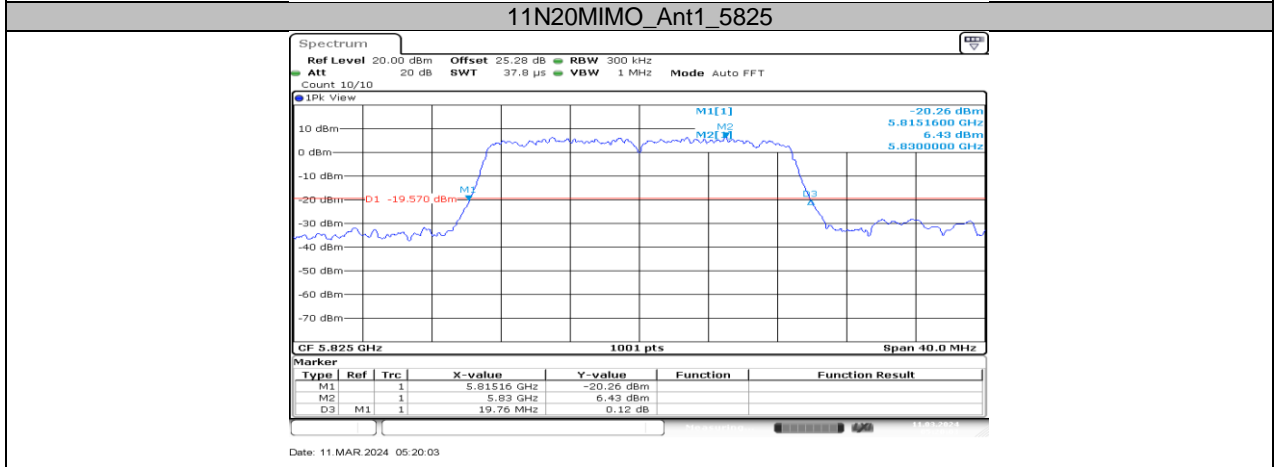
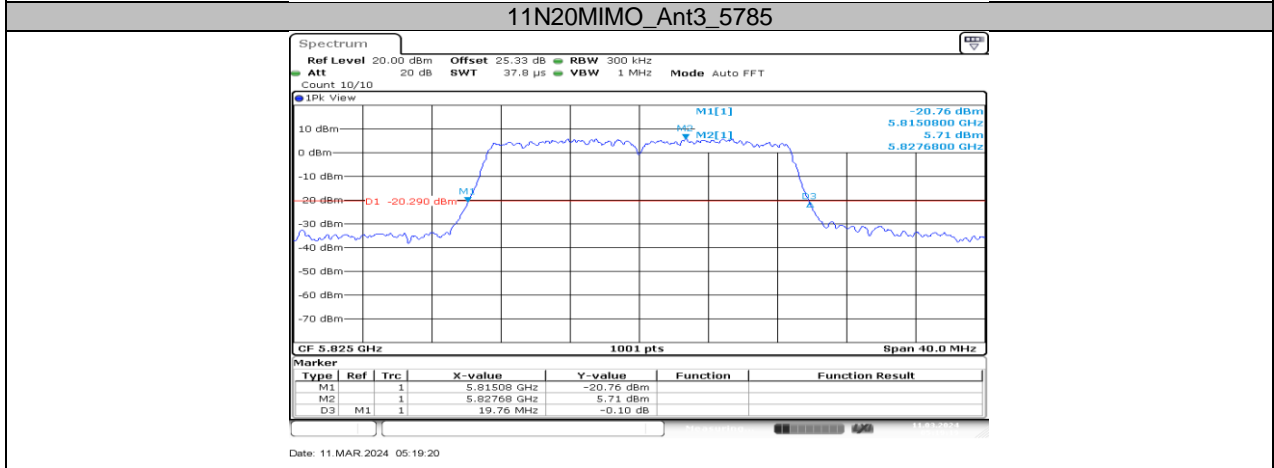
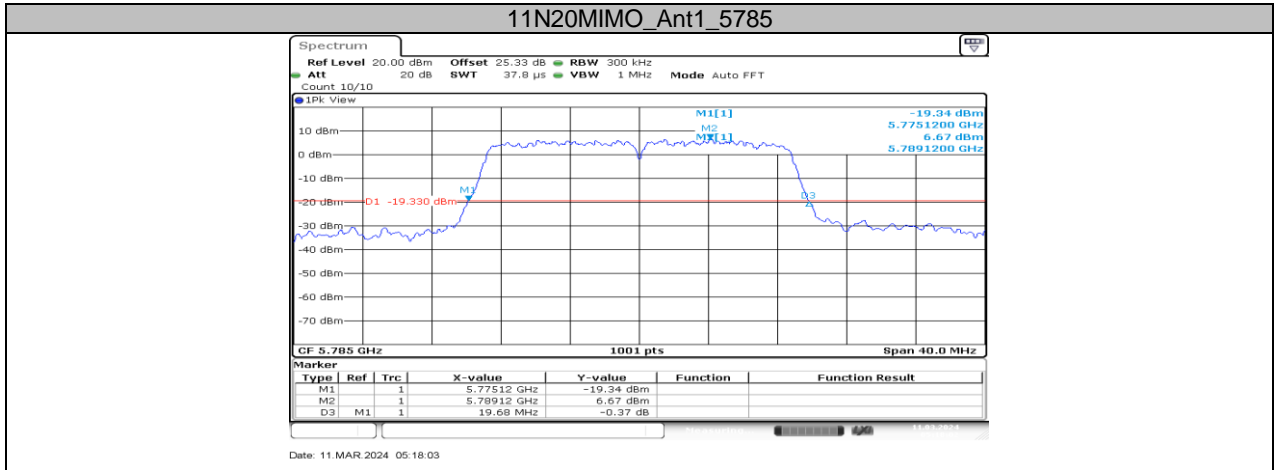
Date: 11.MAR 2024 05:14:17



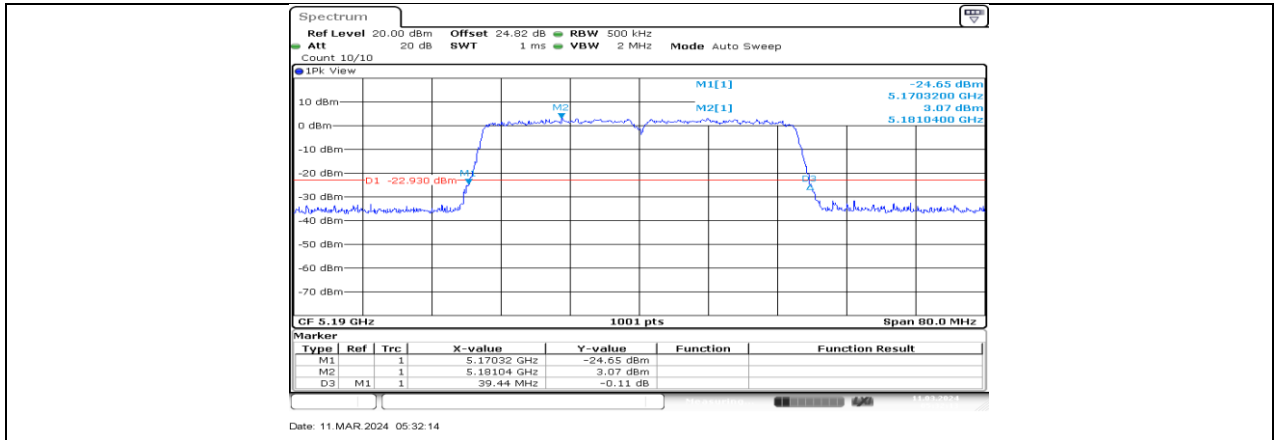
Date: 11.MAR 2024 05:15:01



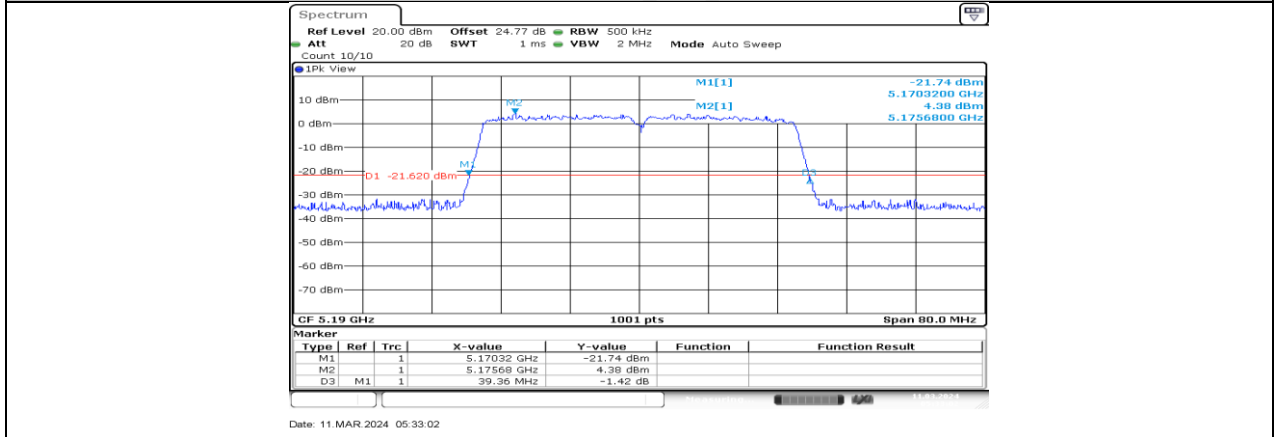
Date: 11.MAR 2024 05:17:19



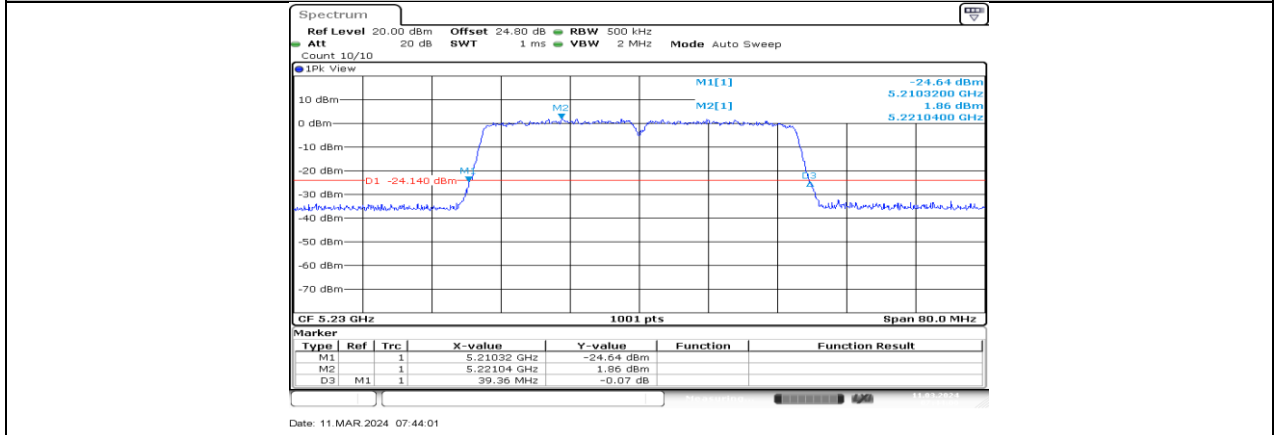
11N20MIMO_Ant3_5825



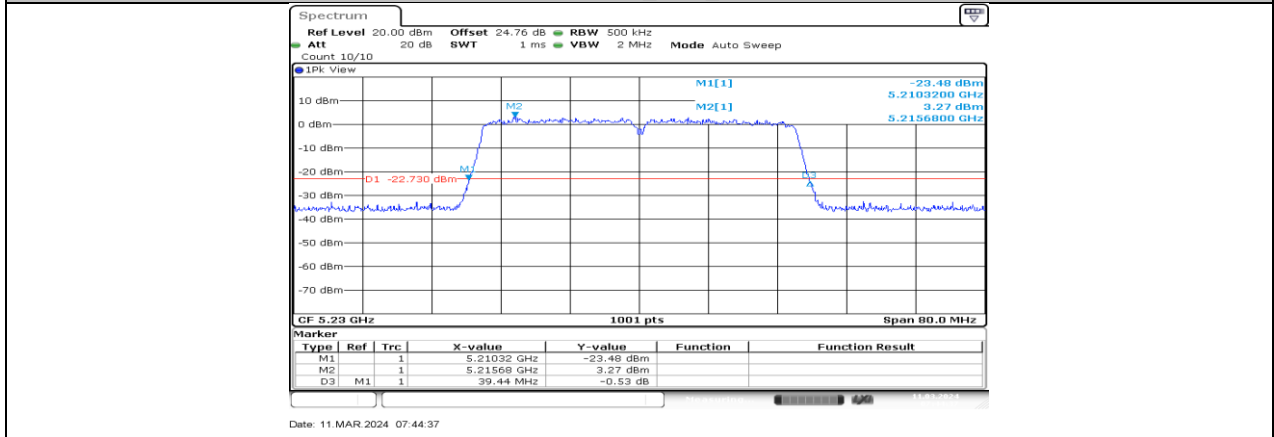
11N40MIMO_Ant1_5190

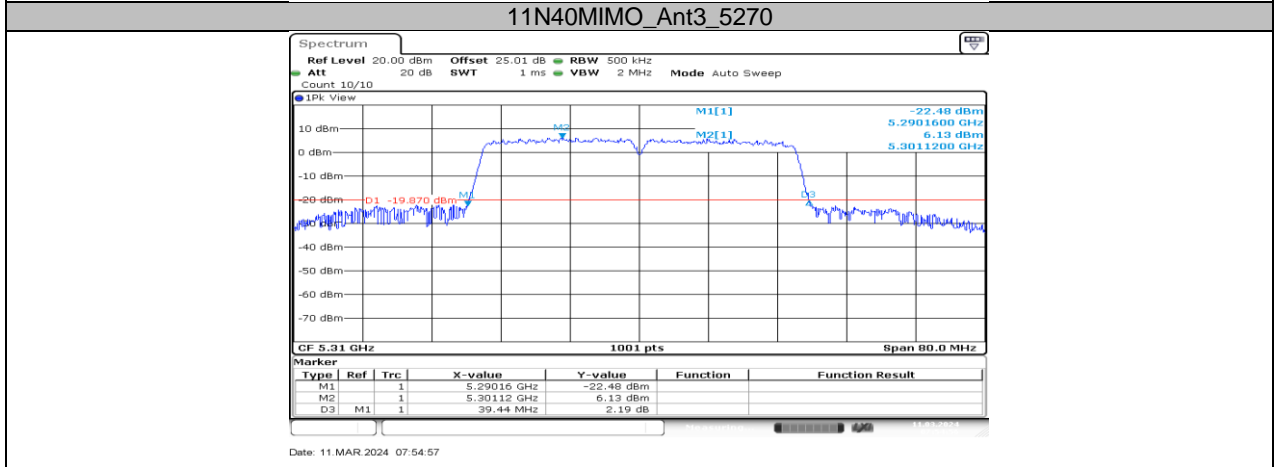
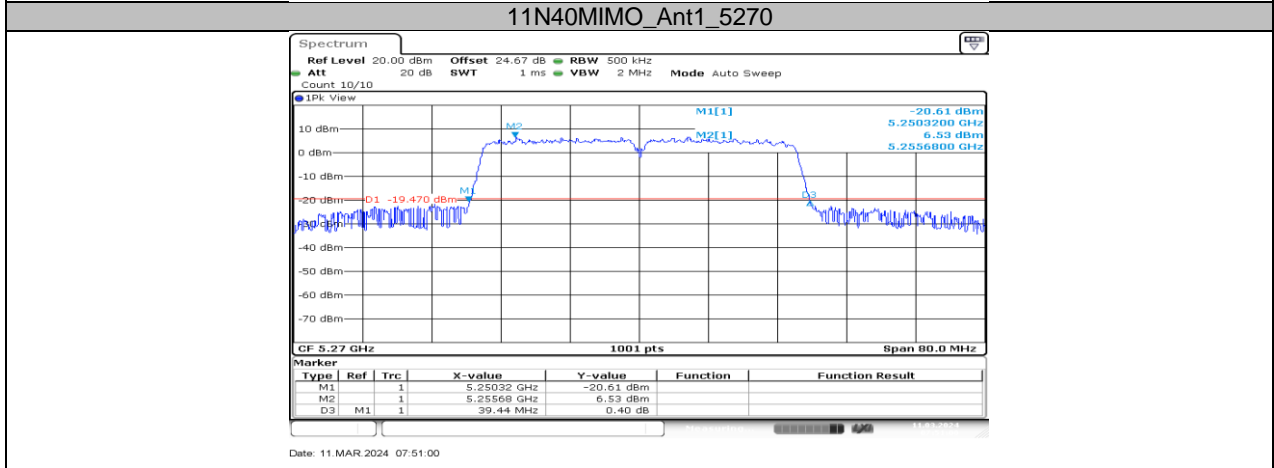
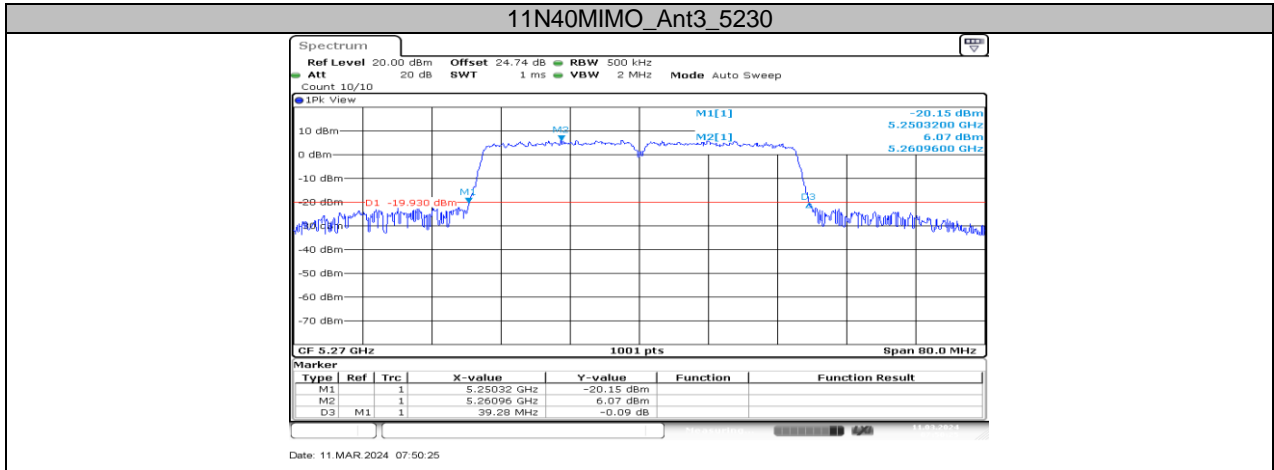


11N40MIMO_Ant3_5190

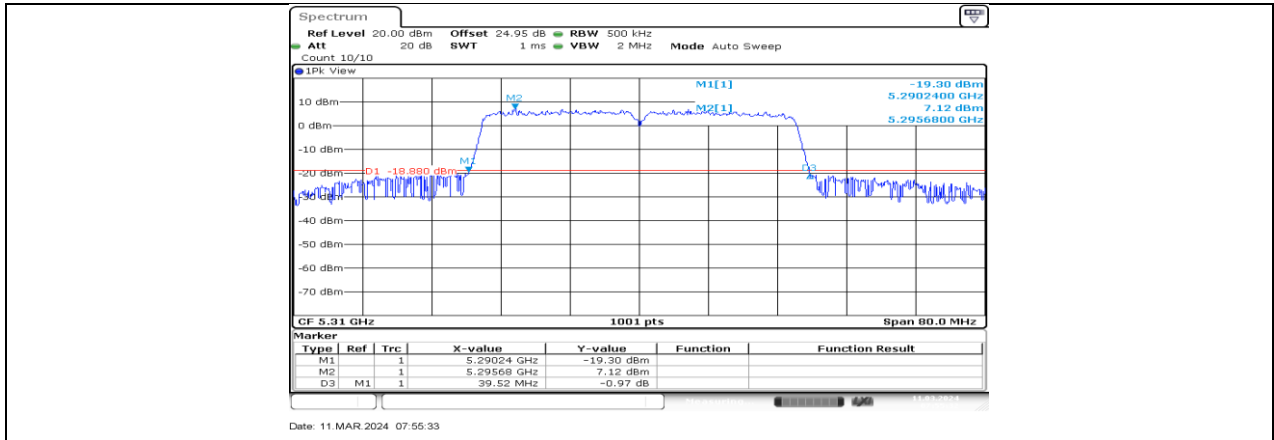


11N40MIMO_Ant1_5230

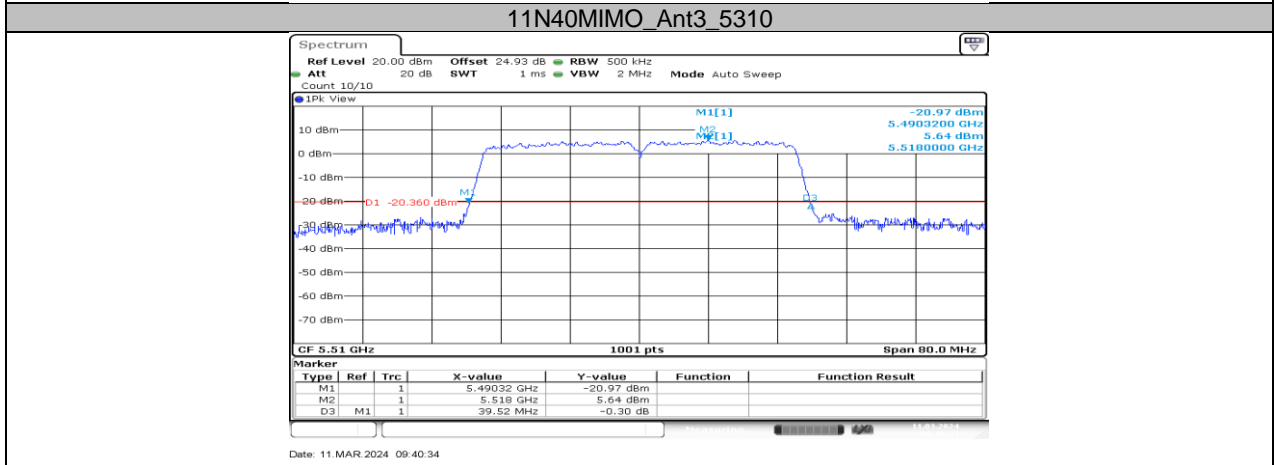




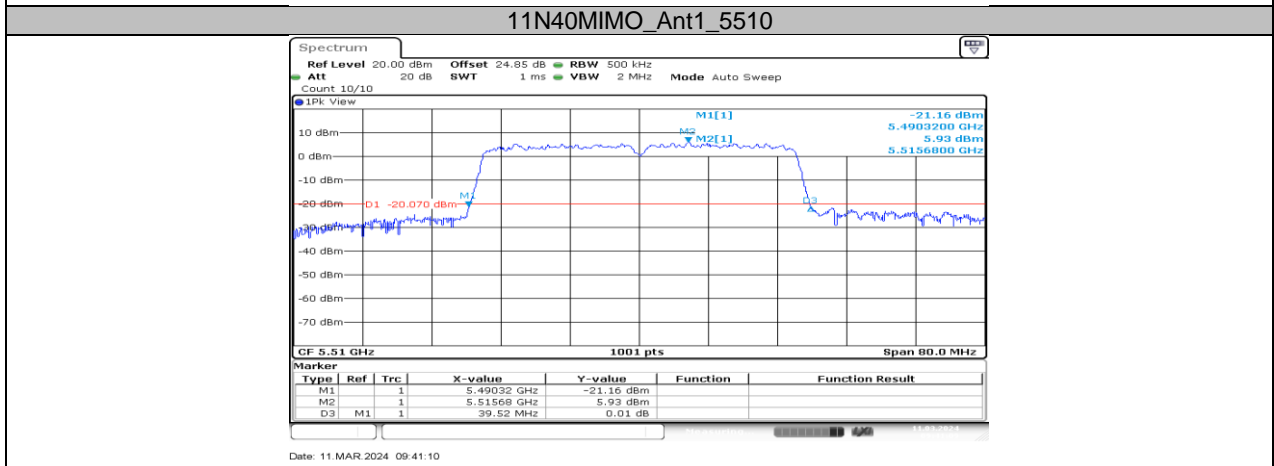
11N40MIMO_Ant1_5310



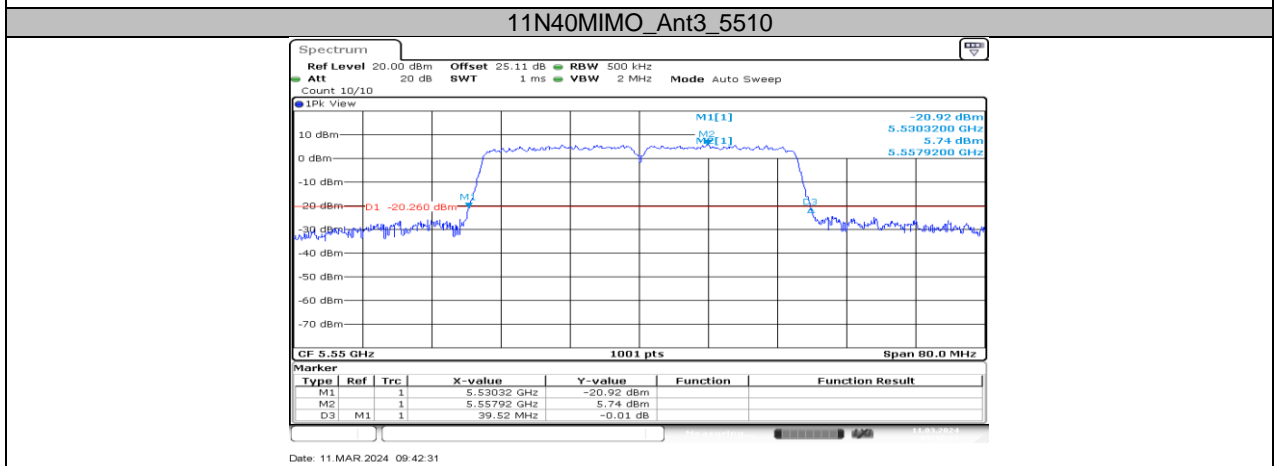
Date: 11.MAR 2024 07:55:33



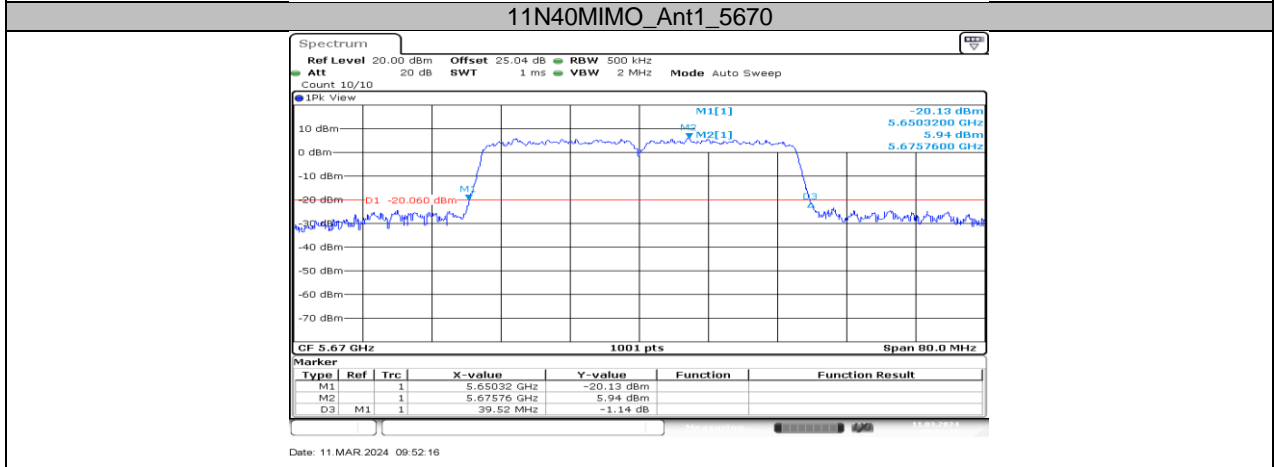
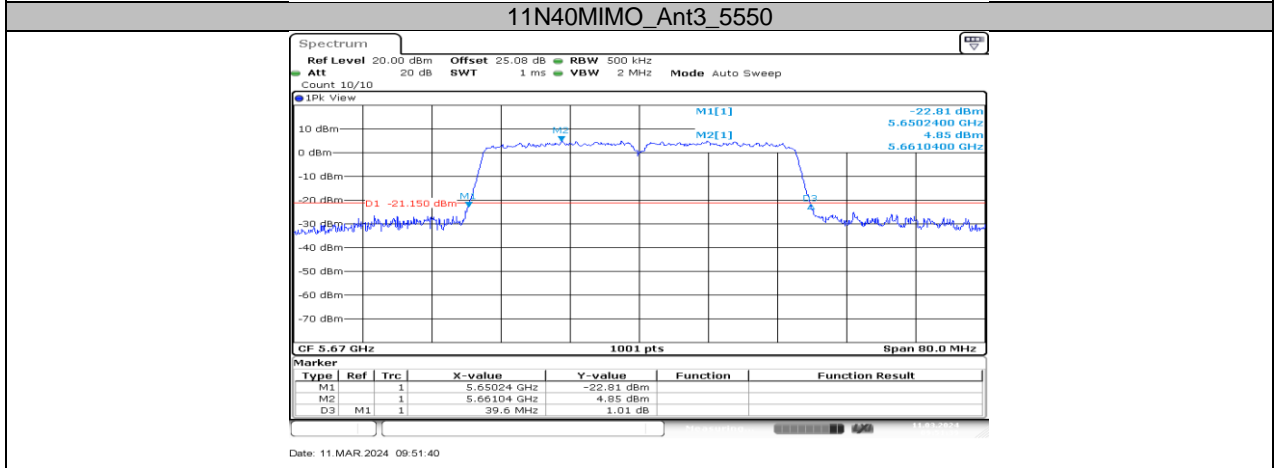
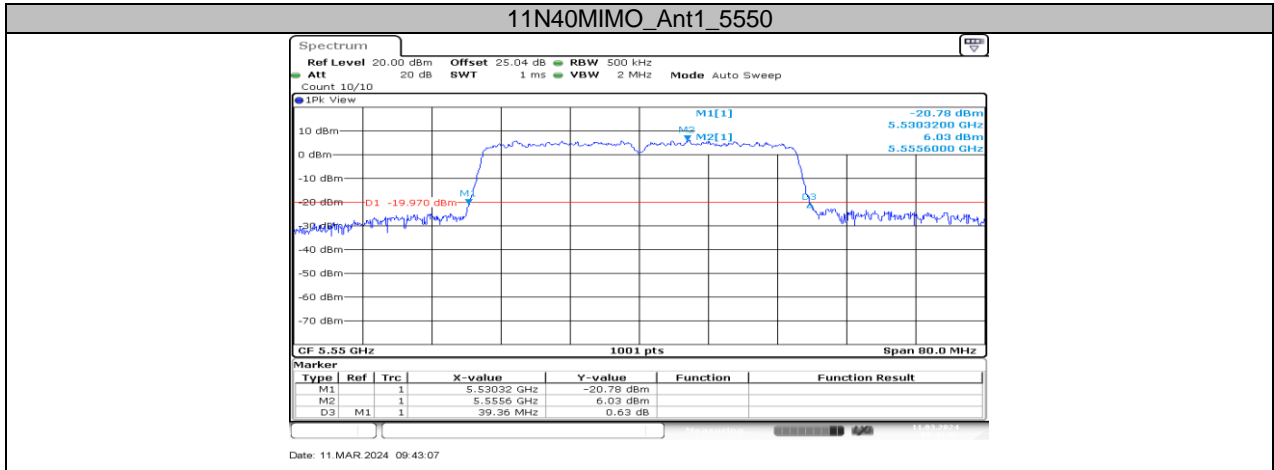
Date: 11.MAR 2024 09:40:34



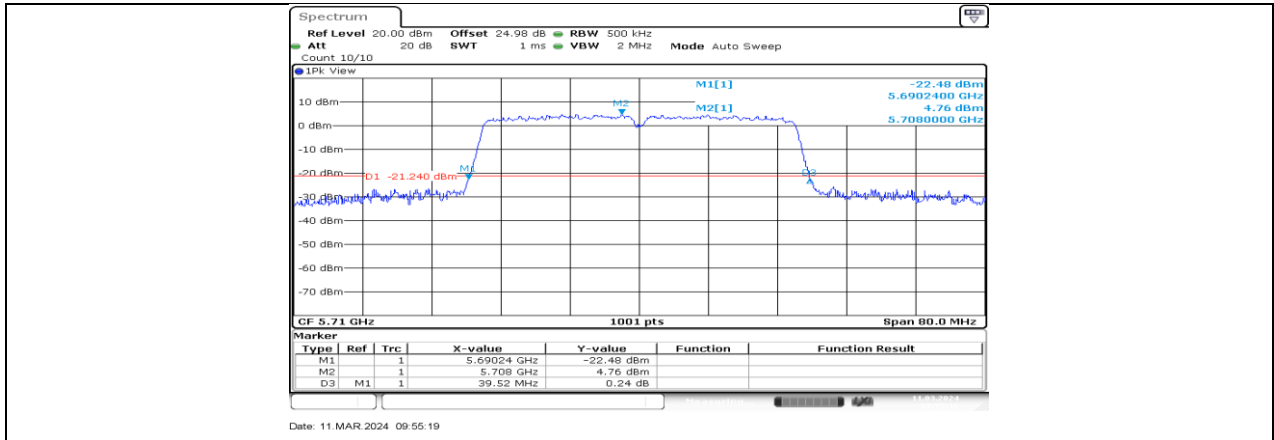
Date: 11.MAR 2024 09:41:10



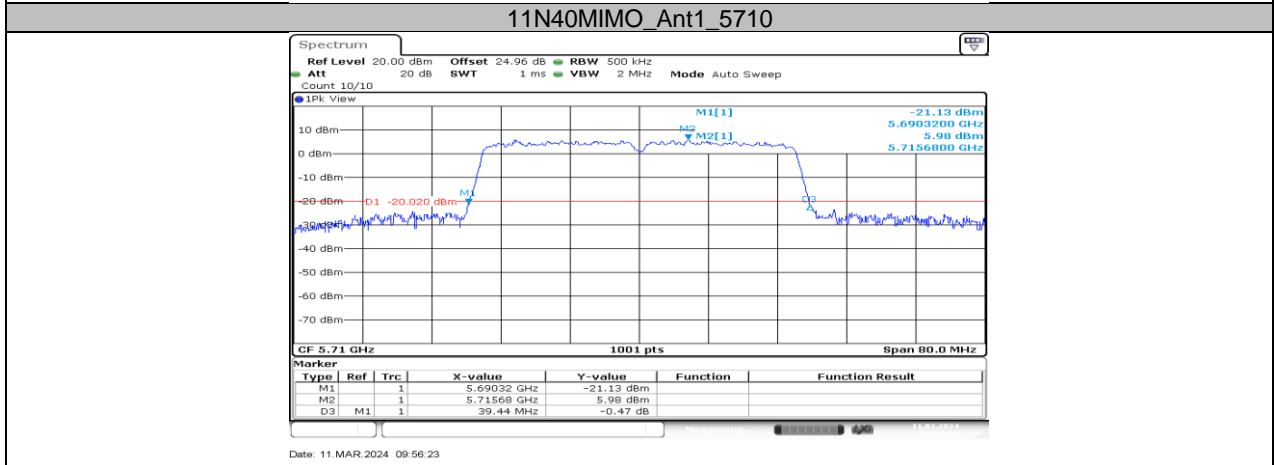
Date: 11.MAR 2024 09:42:31



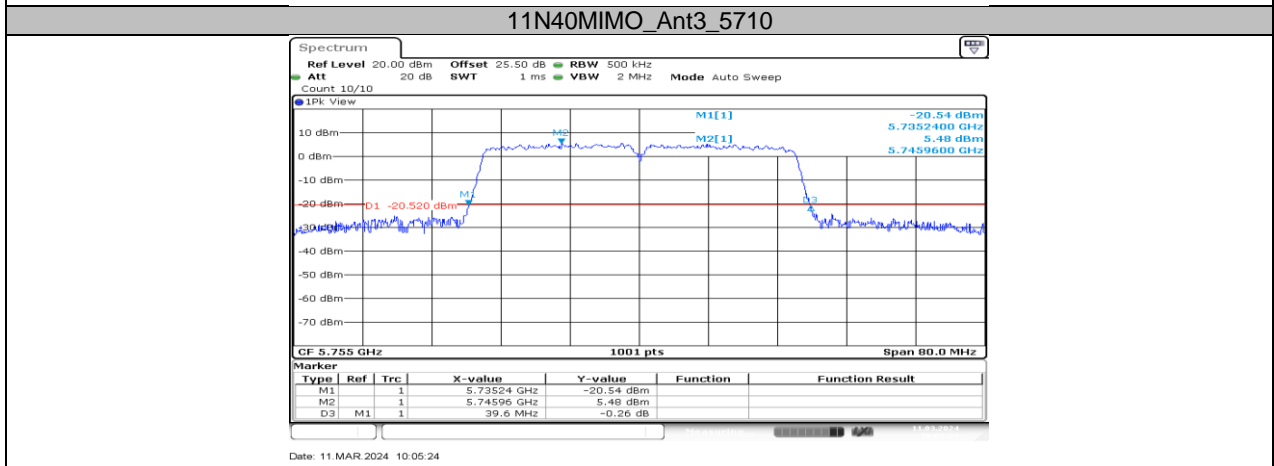
11N40MIMO_Ant3_5670



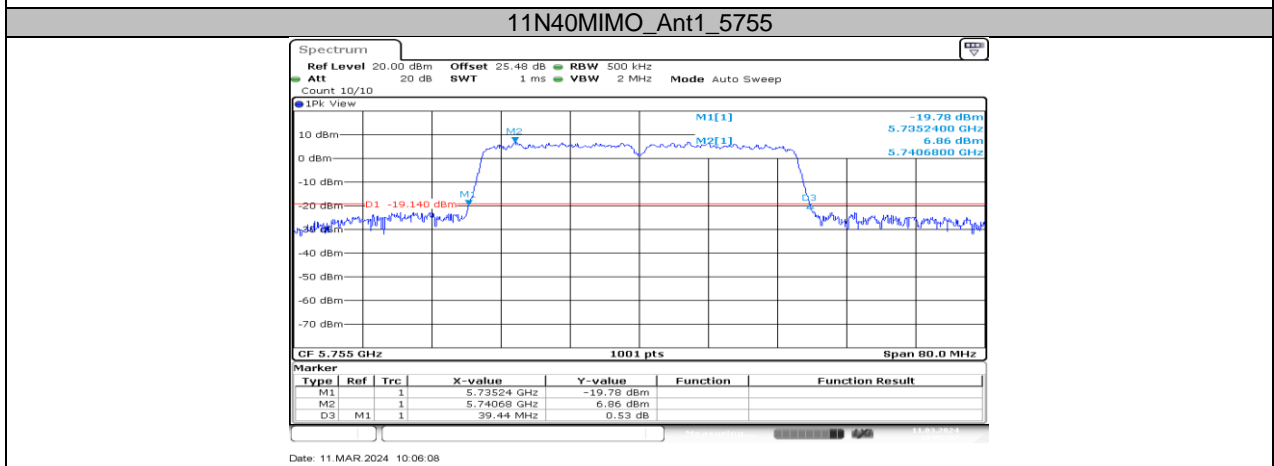
Date: 11.MAR 2024 09:55:19



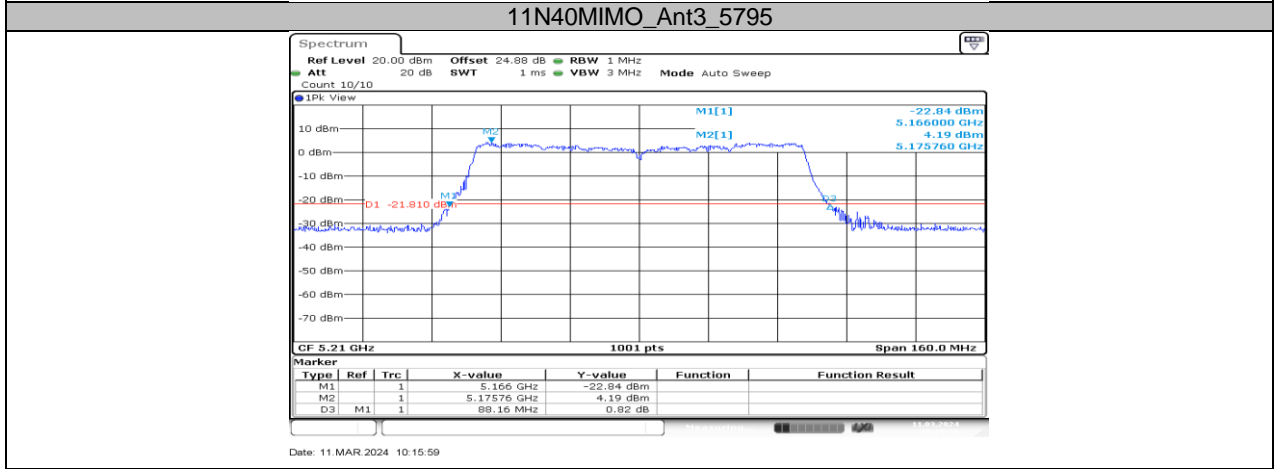
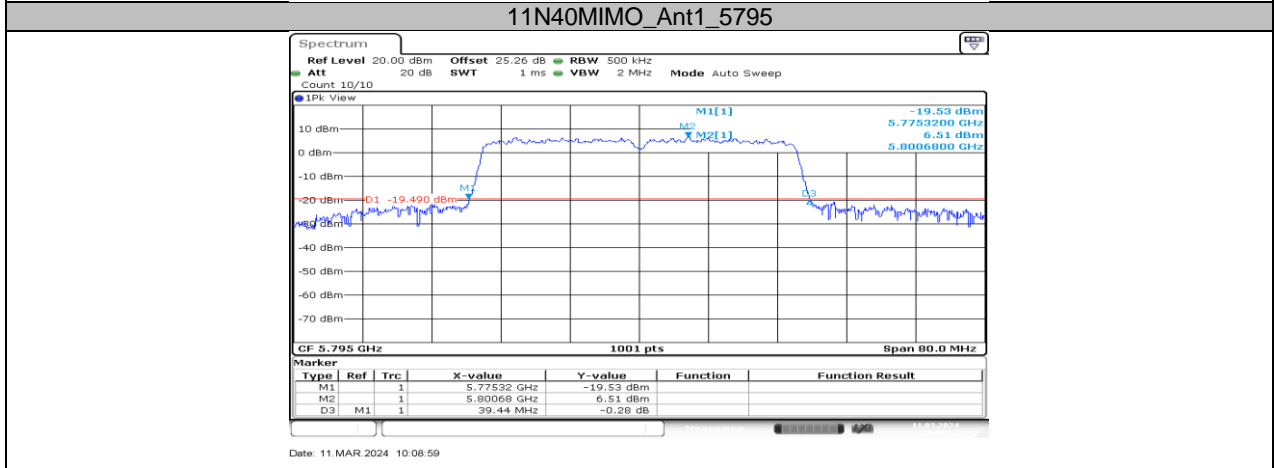
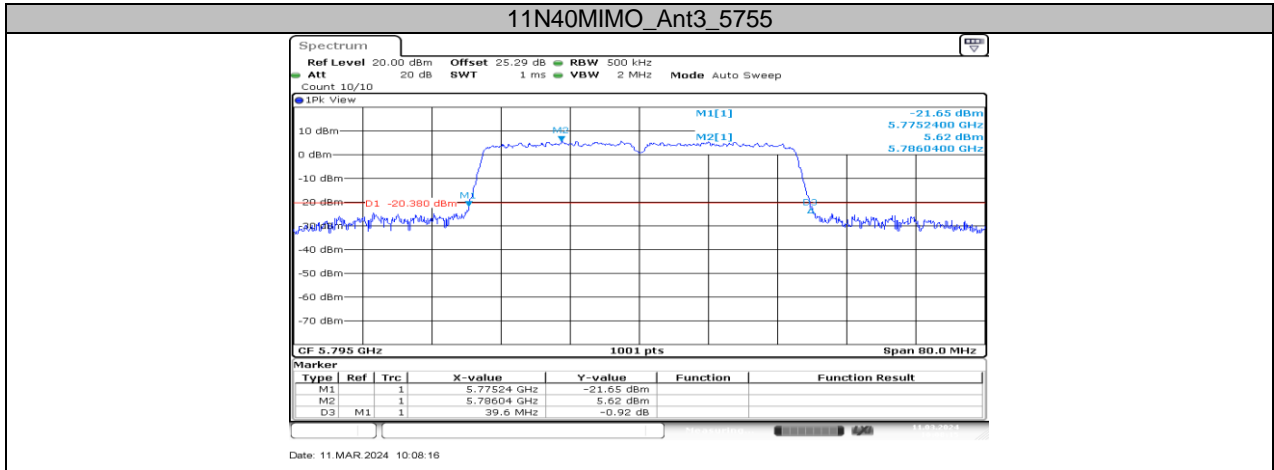
Date: 11.MAR 2024 09:56:23



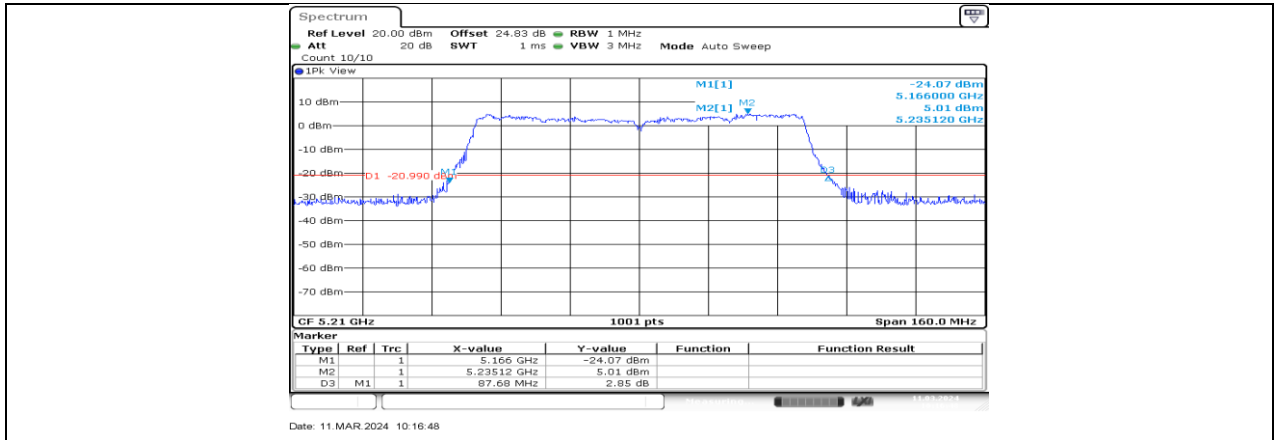
Date: 11.MAR 2024 10:05:24



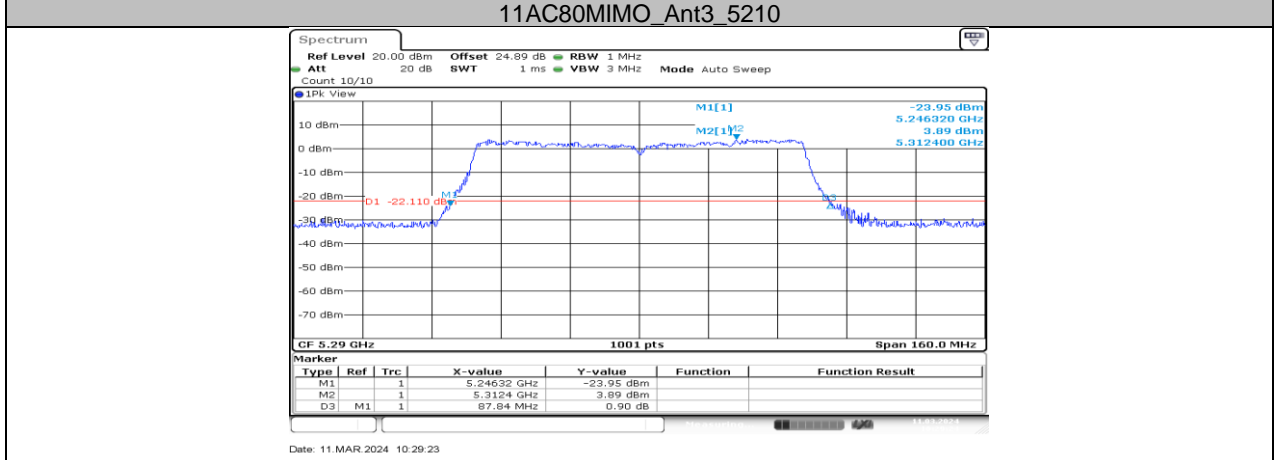
Date: 11.MAR 2024 10:08:08



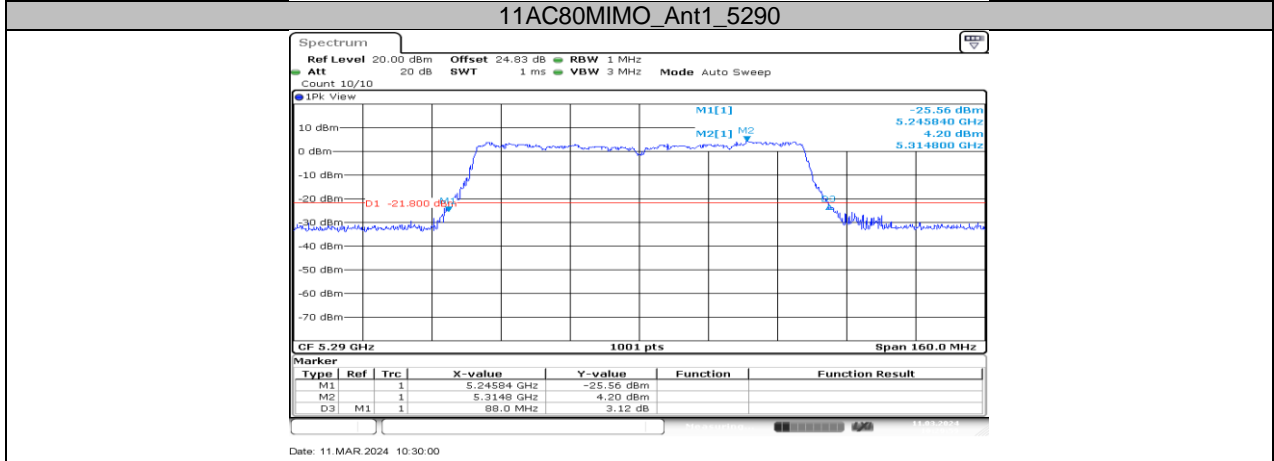
11AC80MIMO_Ant1_5210



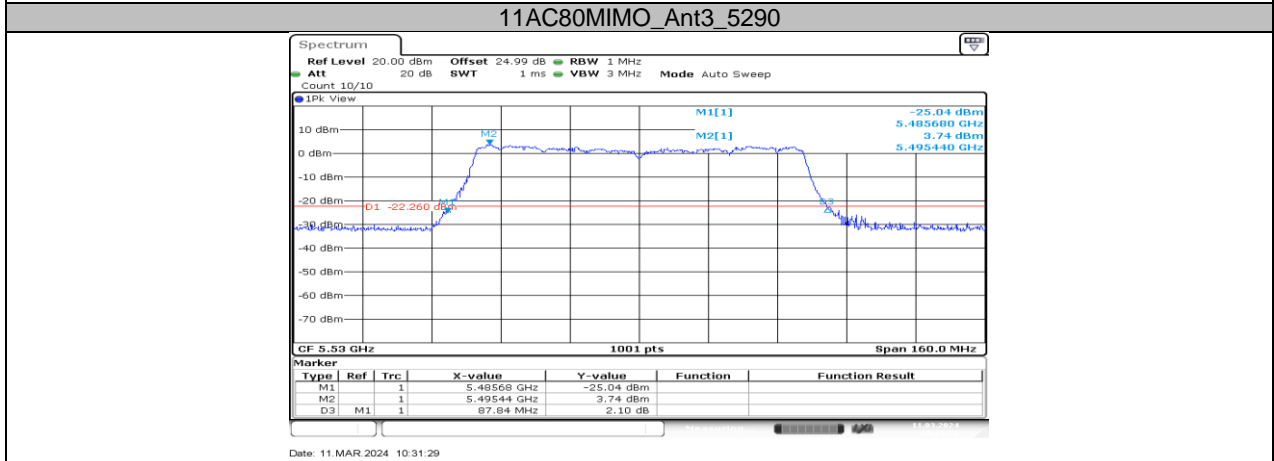
Date: 11.MAR 2024 10:16:48



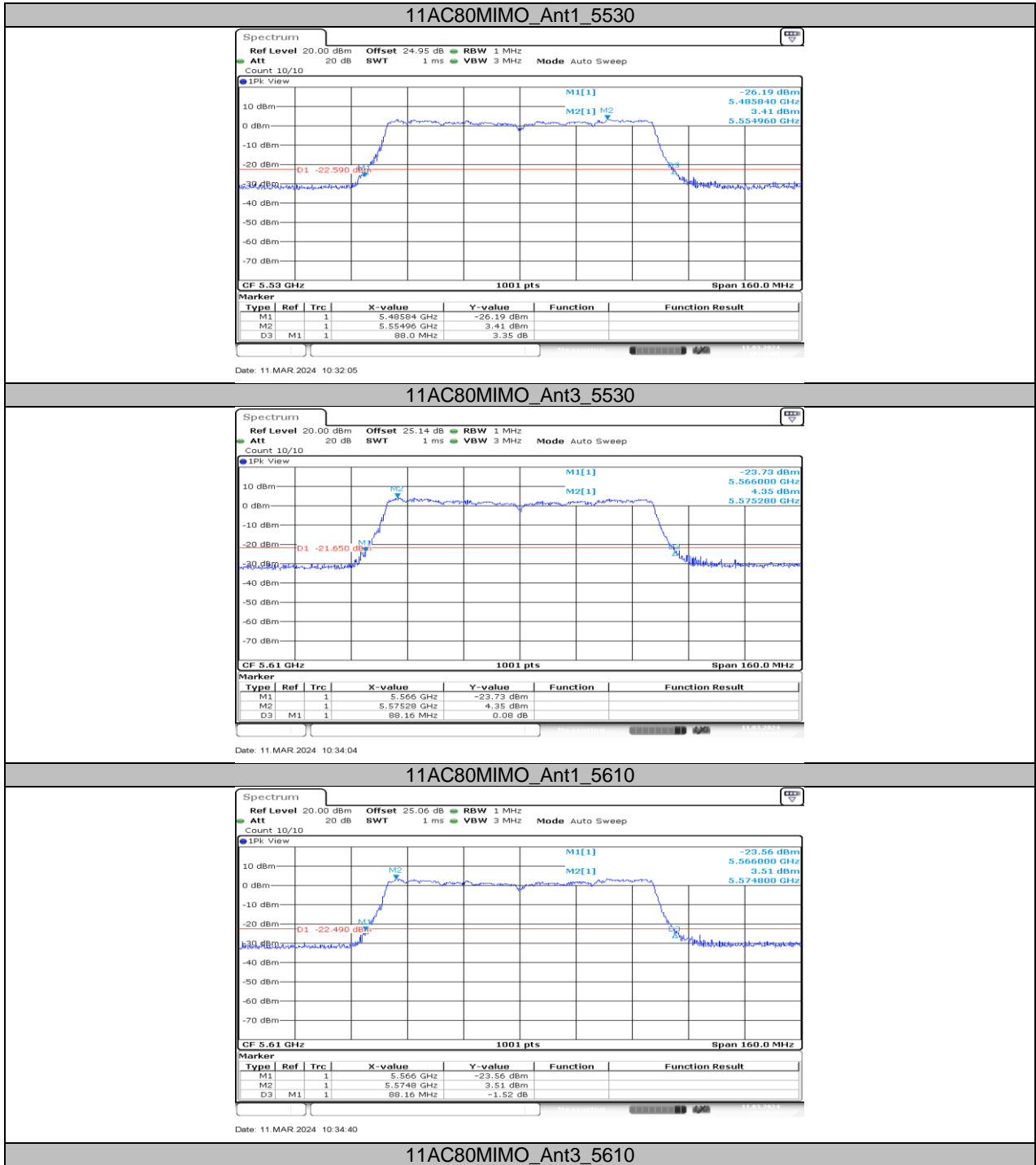
Date: 11.MAR 2024 10:29:23

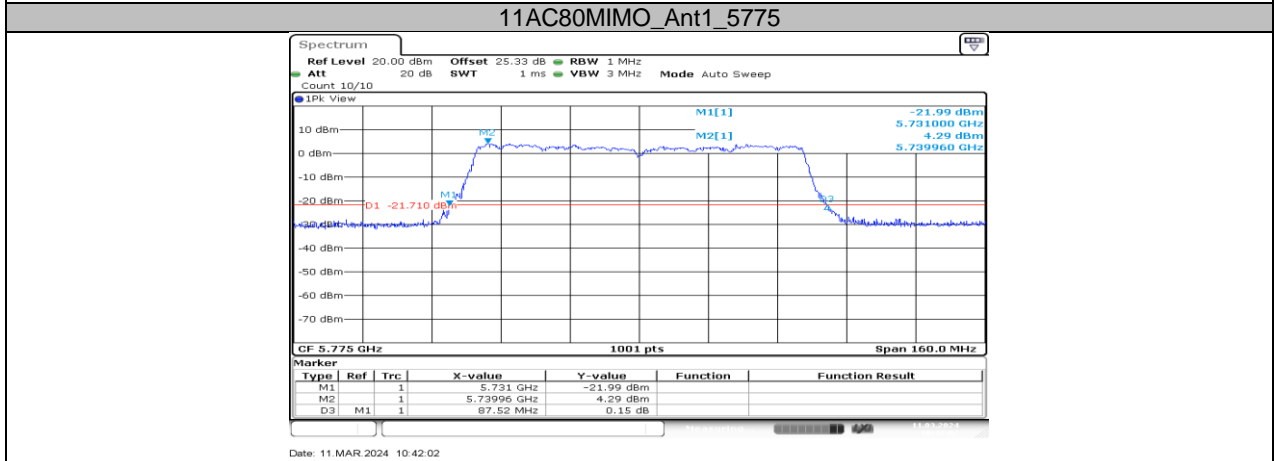
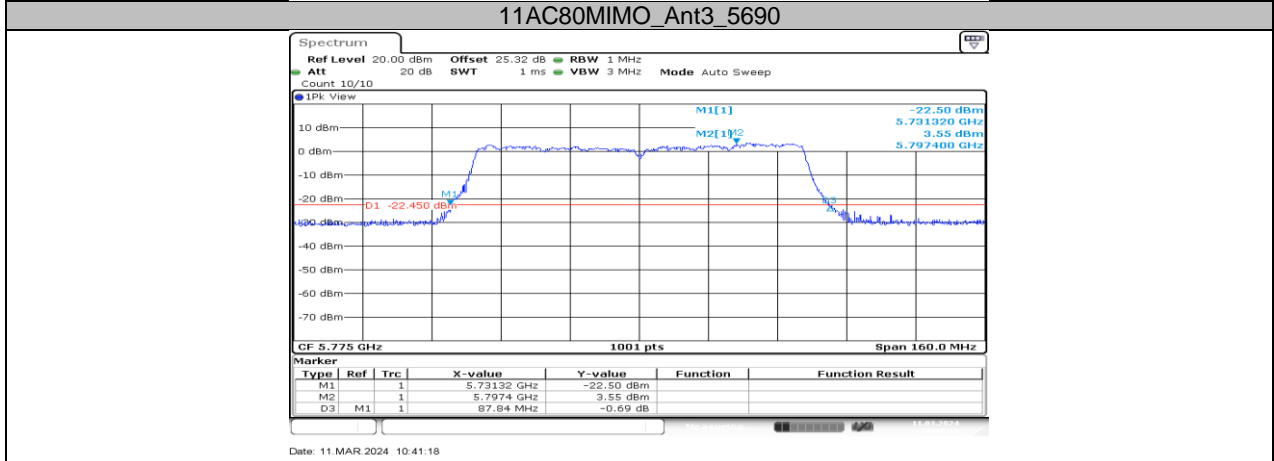
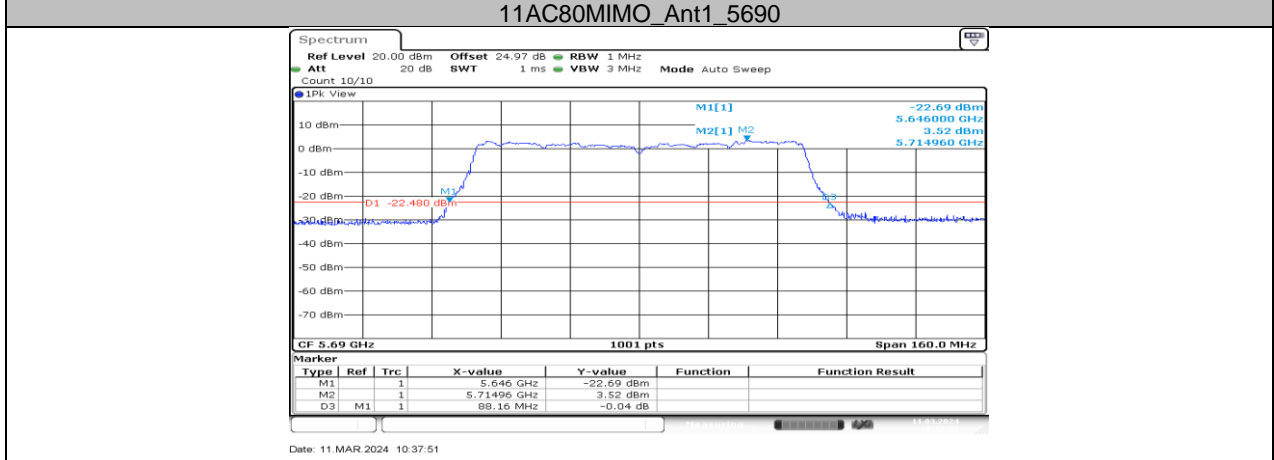
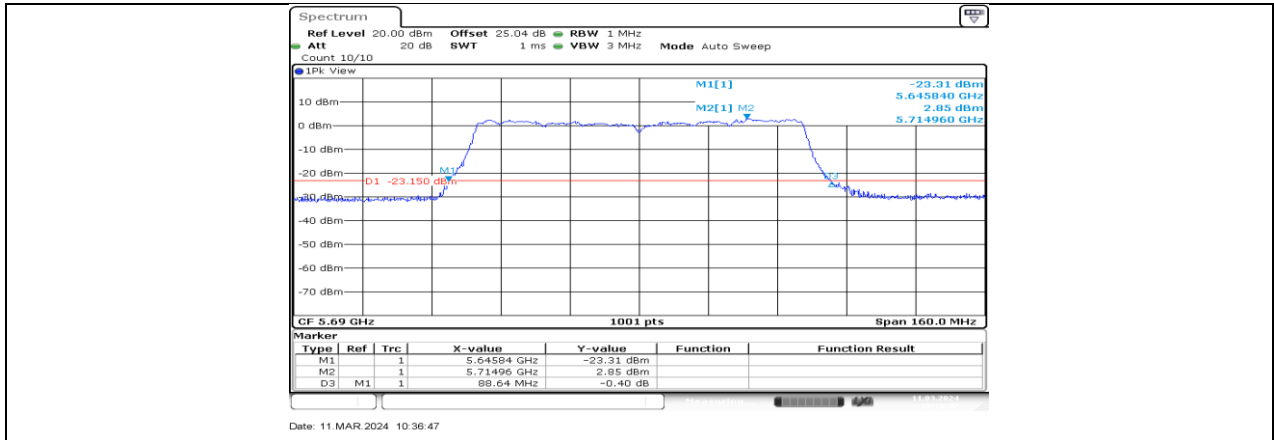


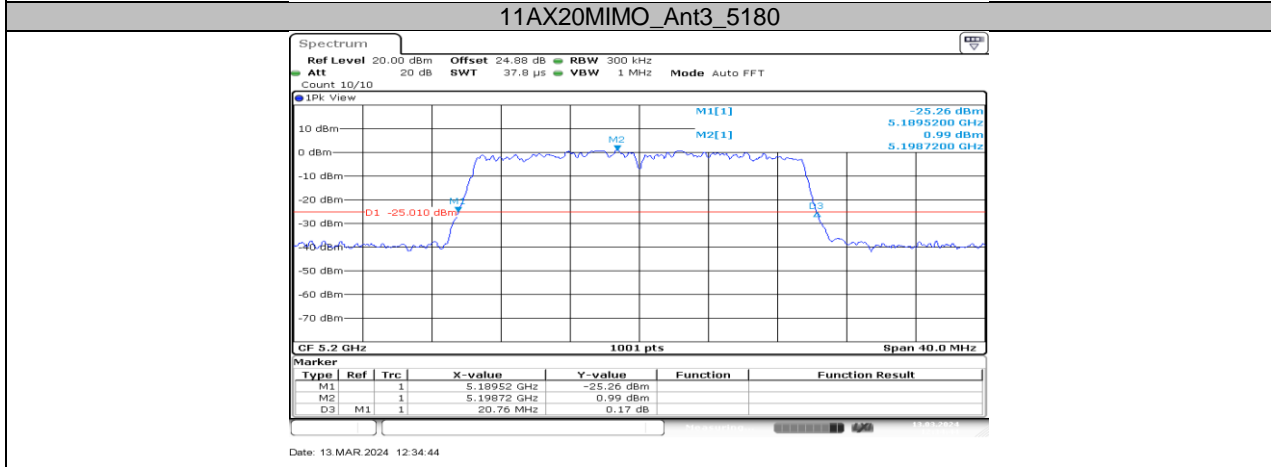
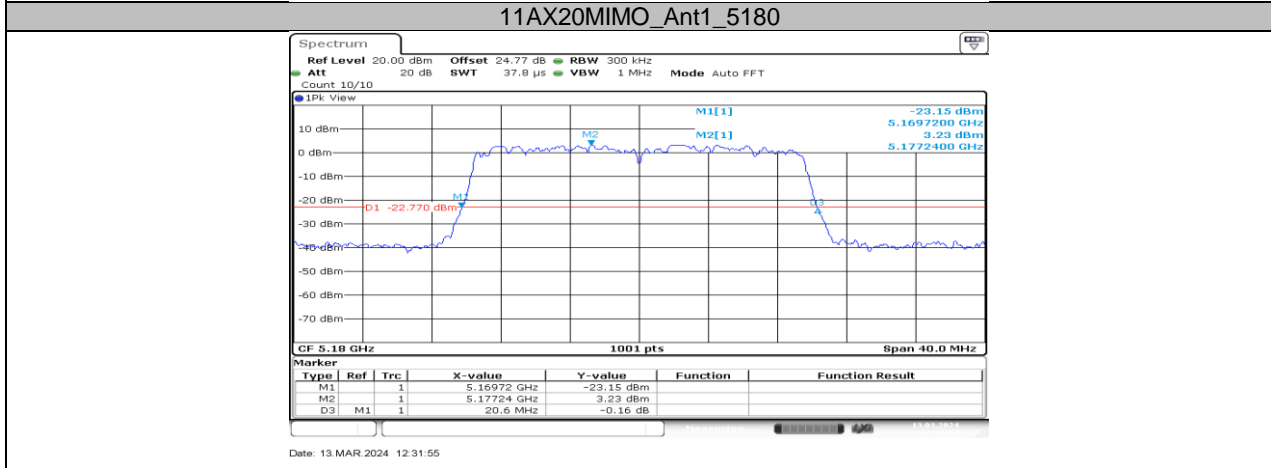
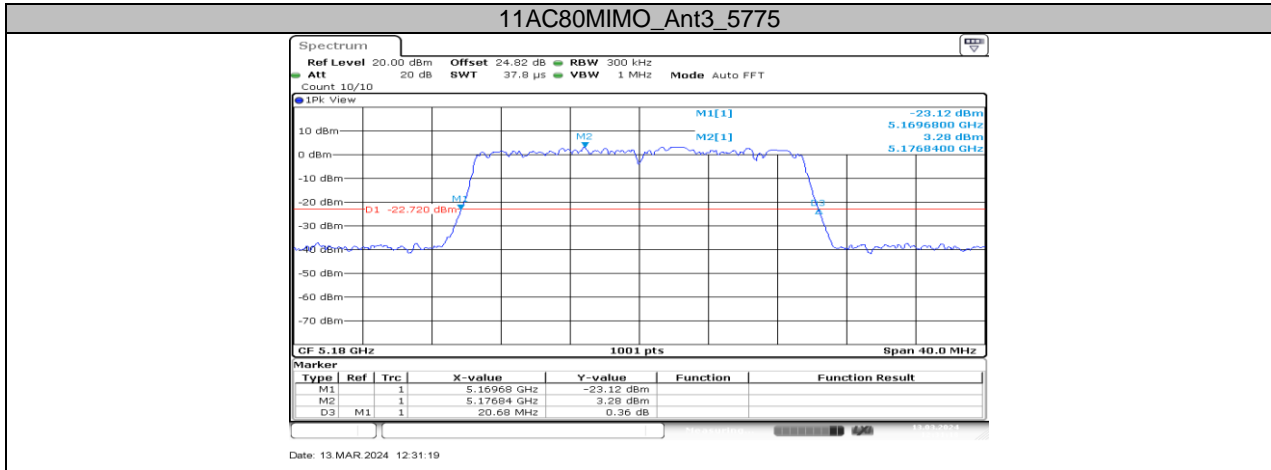
Date: 11.MAR 2024 10:30:00



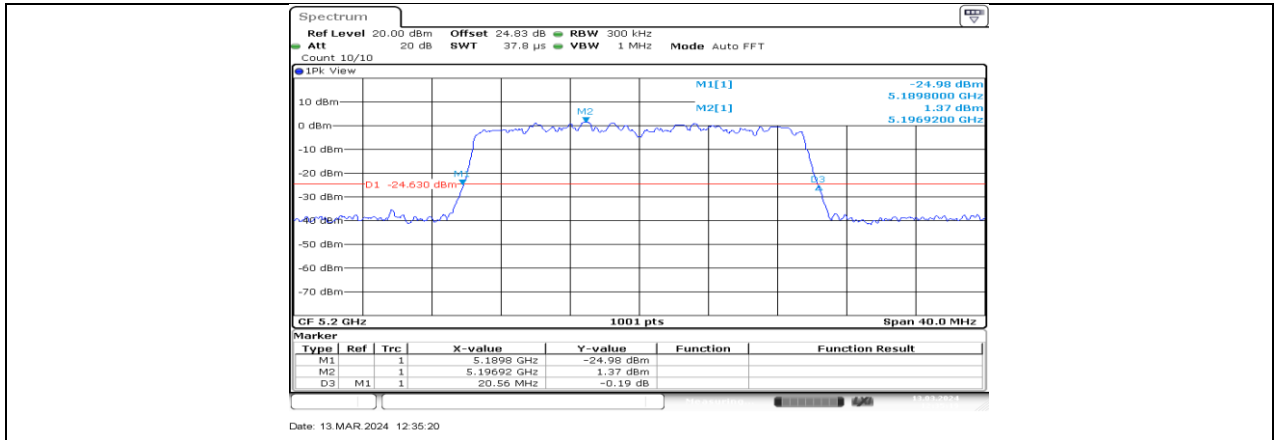
Date: 11.MAR 2024 10:31:29





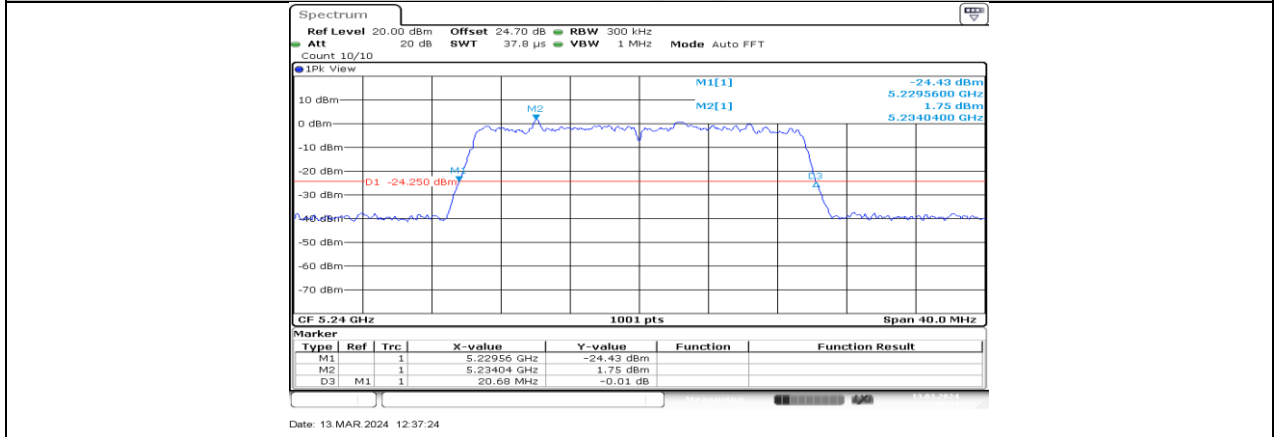


11AX20MIMO_Ant1_5200



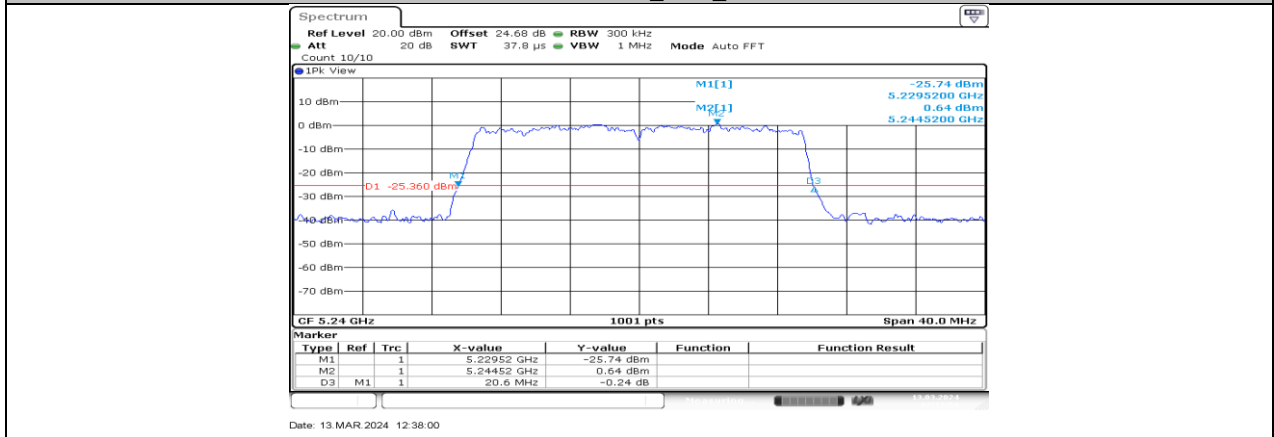
Date: 13.MAR 2024 12:35:20

11AX20MIMO_Ant3_5200



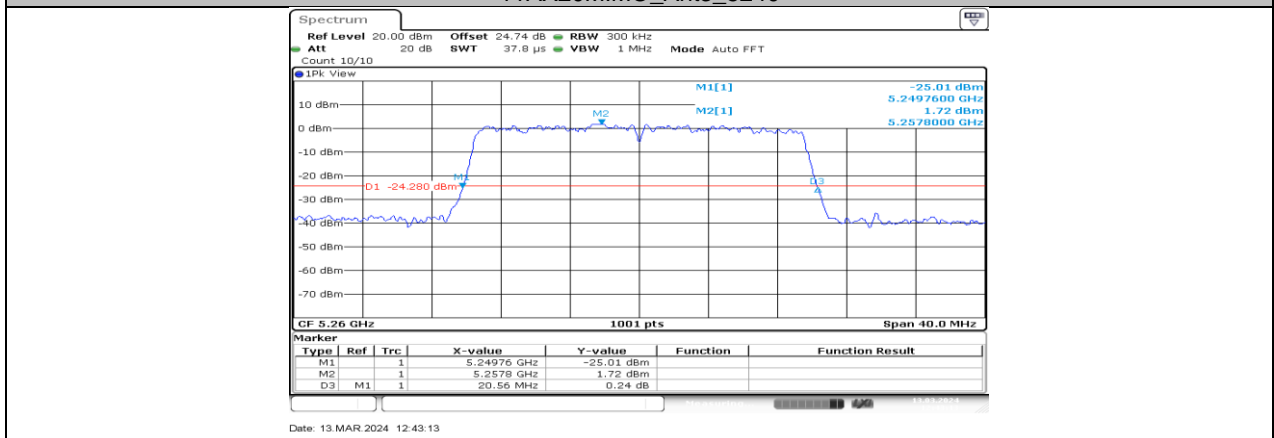
Date: 13.MAR 2024 12:37:24

11AX20MIMO_Ant1_5240

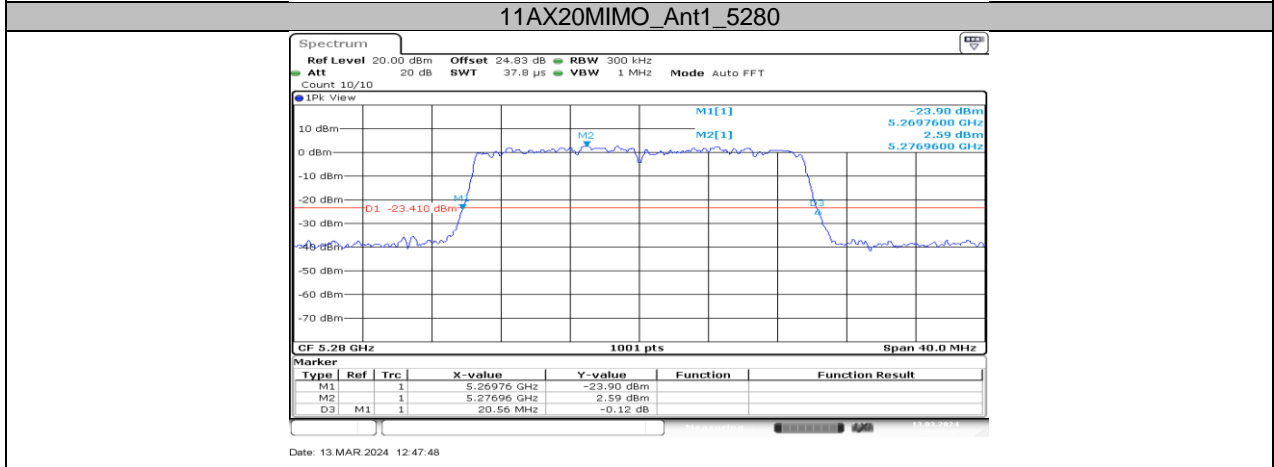
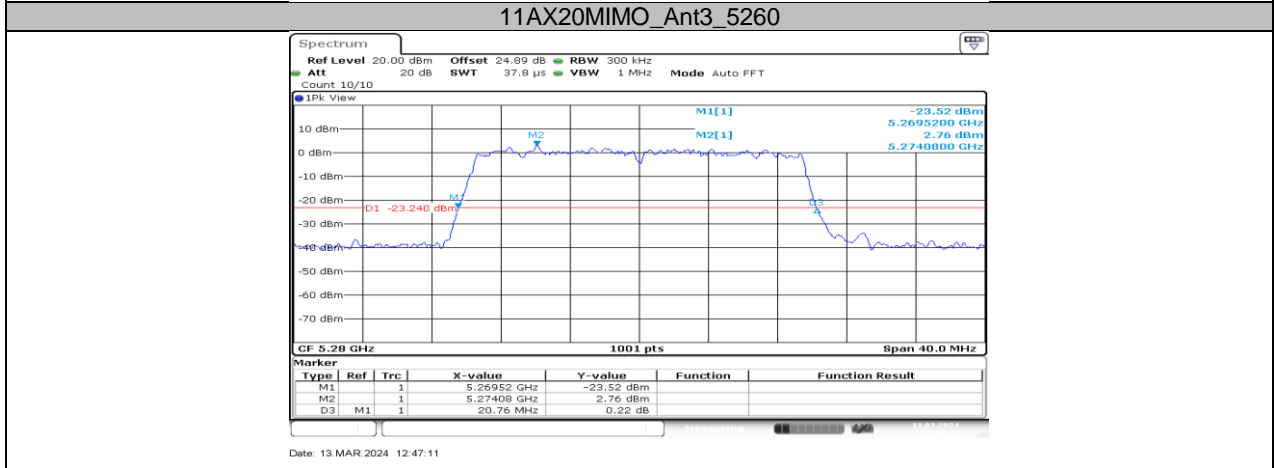
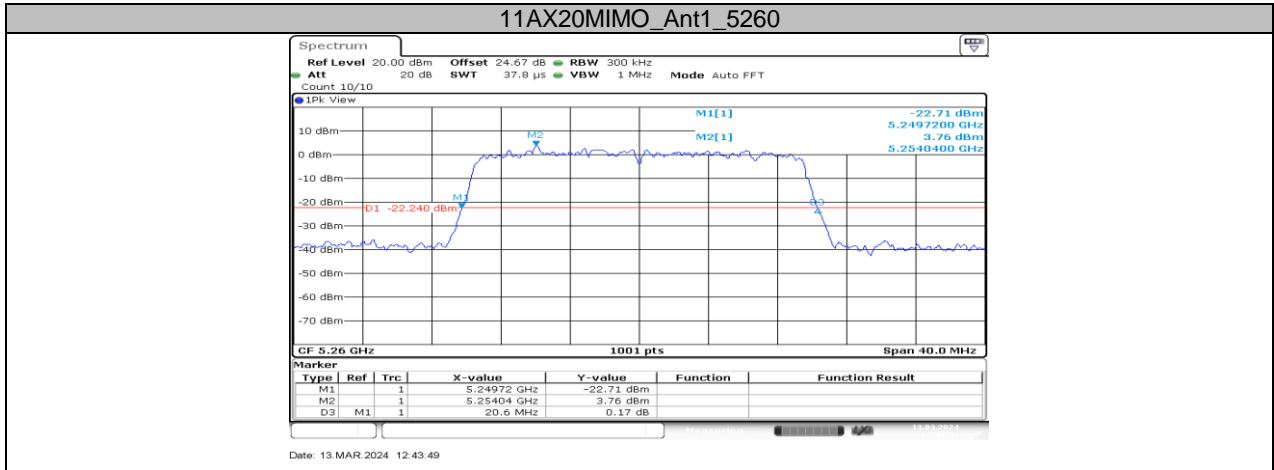


Date: 13.MAR 2024 12:38:00

11AX20MIMO_Ant3_5240



Date: 13.MAR 2024 12:43:13



11AX20MIMO_Ant3_5280