

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
EUT Name:	DOCSIS 3.1 Cable Modem
Model:	NE3034W
Sample ID:	HC-C-202503-0171-01-01
Test Standard:	FCC Part 15.407
Environmental Conditions	
Ambient Temperature:	24.2°C
Ambient Humidity:	47%RH
Test Power Supply:	DC 12V
Test Engineer:	Rick Chen
Note: For a more detailed features description, please refer to the report TBR-C-202503-0171-11.	

Contents

1: Emission Bandwidth	3
1.1 Test Result	3
1.2 Test Graphs	7
2: Occupied channel bandwidth	31
2.1 Test Result	31
2.2 Test Graphs	35
3: Min emission bandwidth	66
3.1 Test Result-B4	66
3.2 Test Graphs-B4	68
4: Duty Cycle	78
4.1 Test Result	78
4.2 Test Graphs	80
5: Maximum conducted output power	94
5.1 Test Result	94
6: Maximum power spectral density	99
6.1 Test Result	99
6.2 Test Graphs	105
7: Conducted Spurious Emission	139
7.1 Test Result	139
7.2 Test Graphs	146
8: Frequency Stability	207
8.1 Test Result	207

1: Emission Bandwidth

1.1 Test Result

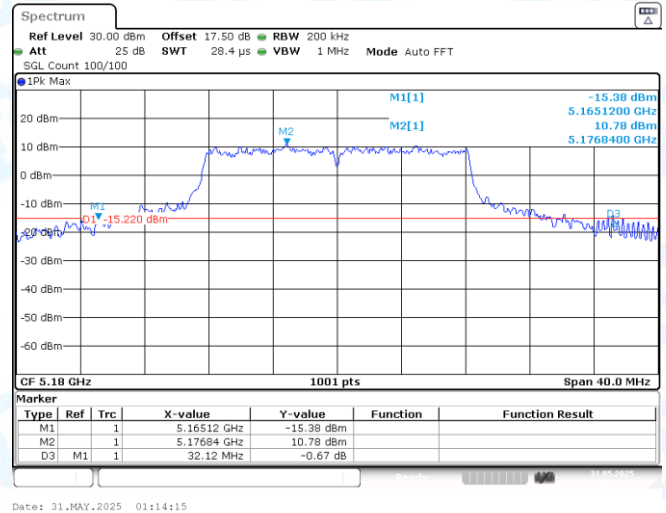
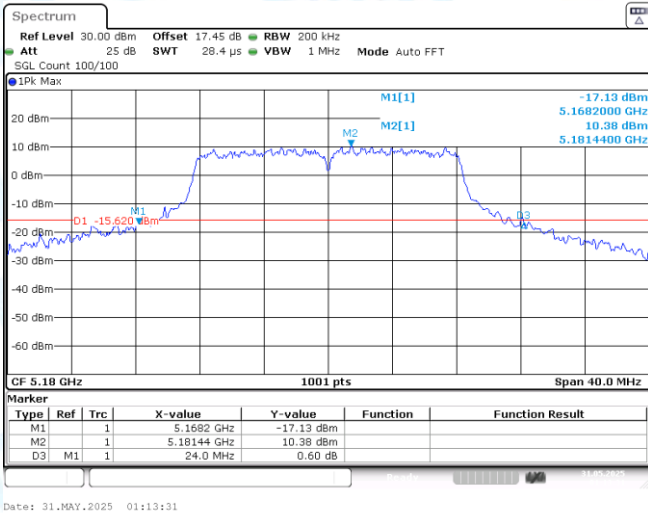
TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.00	5168.20	5192.20	---	---
11A	Ant2	5180	32.12	5165.12	5197.24	---	---
11A	Ant1	5200	25.80	5186.76	5212.56	---	---
11A	Ant2	5200	31.28	5185.76	5217.04	---	---
11A	Ant1	5240	23.48	5227.96	5251.44	---	---
11A	Ant2	5240	25.28	5228.56	5253.84	---	---
11A	Ant1	5260	24.28	5248.12	5272.40	---	---
11A	Ant2	5260	23.48	5247.68	5271.16	---	---
11A	Ant1	5280	24.16	5267.92	5292.08	---	---
11A	Ant2	5280	23.92	5267.40	5291.32	---	---
11A	Ant1	5320	21.40	5309.44	5330.84	---	---
11A	Ant2	5320	21.44	5308.92	5330.36	---	---
11A	Ant1	5500	21.84	5488.68	5510.52	---	---
11A	Ant2	5500	21.76	5488.76	5510.52	---	---
11A	Ant1	5580	24.08	5567.72	5591.80	---	---
11A	Ant2	5580	25.40	5566.52	5591.92	---	---
11A	Ant1	5720	23.92	5707.92	5731.84	---	---
11A	Ant2	5720	23.00	5708.80	5731.80	---	---
11A	Ant1	5720_UNII-2C	17.08	5707.92	5725	---	---
11A	Ant2	5720_UNII-2C	16.2	5708.80	5725	---	---
11A	Ant1	5720_UNII-3	6.84	5725	5731.84	---	---
11A	Ant2	5720_UNII-3	6.8	5725	5731.80	---	---
11N20-CDD	Ant1	5180	23.68	5167.16	5190.84	---	---
11N20-CDD	Ant2	5180	30.04	5164.64	5194.68	---	---
11N20-CDD	Ant1	5200	26.28	5186.68	5212.96	---	---
11N20-CDD	Ant2	5200	28.24	5184.72	5212.96	---	---
11N20-CDD	Ant1	5240	26.16	5227.64	5253.80	---	---
11N20-CDD	Ant2	5240	28.20	5226.76	5254.96	---	---
11N20-CDD	Ant1	5260	24.72	5247.04	5271.76	---	---
11N20-CDD	Ant2	5260	23.56	5248.64	5272.20	---	---
11N20-CDD	Ant1	5280	25.56	5266.96	5292.52	---	---
11N20-CDD	Ant2	5280	24.28	5267.92	5292.20	---	---
11N20-CDD	Ant1	5320	23.56	5308.24	5331.80	---	---
11N20-CDD	Ant2	5320	21.92	5309.04	5330.96	---	---
11N20-CDD	Ant1	5500	22.76	5488.68	5511.44	---	---
11N20-CDD	Ant2	5500	22.44	5489.24	5511.68	---	---
11N20-CDD	Ant1	5580	24.28	5568.20	5592.48	---	---
11N20-CDD	Ant2	5580	23.56	5568.64	5592.20	---	---
11N20-CDD	Ant1	5720	24.20	5707.84	5732.04	---	---
11N20-CDD	Ant2	5720	23.04	5708.08	5731.12	---	---
11N20-CDD	Ant1	5720_UNII-2C	17.16	5707.84	5725	---	---
11N20-CDD	Ant2	5720_UNII-2C	16.92	5708.08	5725	---	---
11N20-CDD	Ant1	5720_UNII-3	7.04	5725	5732.04	---	---
11N20-CDD	Ant2	5720_UNII-3	6.12	5725	5731.12	---	---
11N40-CDD	Ant1	5190	44.16	5167.68	5211.84	---	---
11N40-CDD	Ant2	5190	42.80	5168.64	5211.44	---	---
11N40-CDD	Ant1	5230	46.72	5206.64	5253.36	---	---
11N40-CDD	Ant2	5230	45.52	5208.00	5253.52	---	---
11N40-CDD	Ant1	5270	47.12	5246.56	5293.68	---	---
11N40-CDD	Ant2	5270	44.32	5246.72	5291.04	---	---
11N40-CDD	Ant1	5310	44.32	5287.44	5331.76	---	---
11N40-CDD	Ant2	5310	42.00	5288.96	5330.96	---	---

11N40-CDD	Ant1	5510	43.28	5488.56	5531.84	---	---
11N40-CDD	Ant2	5510	42.88	5488.72	5531.60	---	---
11N40-CDD	Ant1	5550	47.52	5526.32	5573.84	---	---
11N40-CDD	Ant2	5550	44.72	5526.56	5571.28	---	---
11N40-CDD	Ant1	5710	43.28	5688.48	5731.76	---	---
11N40-CDD	Ant2	5710	43.60	5688.40	5732.00	---	---
11N40-CDD	Ant1	5710_UNII-2C	36.52	5688.48	5725	---	---
11N40-CDD	Ant2	5710_UNII-2C	36.6	5688.40	5725	---	---
11N40-CDD	Ant1	5710_UNII-3	6.76	5725	5731.76	---	---
11N40-CDD	Ant2	5710_UNII-3	7	5725	5732.00	---	---
11AC20-CDD	Ant1	5180	26.48	5166.20	5192.68	---	---
11AC20-CDD	Ant2	5180	27.00	5166.76	5193.76	---	---
11AC20-CDD	Ant1	5200	28.12	5186.12	5214.24	---	---
11AC20-CDD	Ant2	5200	31.08	5183.64	5214.72	---	---
11AC20-CDD	Ant1	5240	27.92	5224.84	5252.76	---	---
11AC20-CDD	Ant2	5240	25.76	5227.08	5252.84	---	---
11AC20-CDD	Ant1	5260	24.00	5248.28	5272.28	---	---
11AC20-CDD	Ant2	5260	25.08	5248.40	5273.48	---	---
11AC20-CDD	Ant1	5280	25.68	5266.16	5291.84	---	---
11AC20-CDD	Ant2	5280	23.92	5267.96	5291.88	---	---
11AC20-CDD	Ant1	5320	23.08	5308.04	5331.12	---	---
11AC20-CDD	Ant2	5320	22.36	5308.52	5330.88	---	---
11AC20-CDD	Ant1	5500	23.16	5488.56	5511.72	---	---
11AC20-CDD	Ant2	5500	22.96	5488.76	5511.72	---	---
11AC20-CDD	Ant1	5580	23.84	5567.88	5591.72	---	---
11AC20-CDD	Ant2	5580	24.20	5567.12	5591.32	---	---
11AC20-CDD	Ant1	5720	24.04	5708.32	5732.36	---	---
11AC20-CDD	Ant2	5720	22.84	5708.52	5731.36	---	---
11AC20-CDD	Ant1	5720_UNII-2C	16.68	5708.32	5725	---	---
11AC20-CDD	Ant2	5720_UNII-2C	16.48	5708.52	5725	---	---
11AC20-CDD	Ant1	5720_UNII-3	7.36	5725	5732.36	---	---
11AC20-CDD	Ant2	5720_UNII-3	6.36	5725	5731.36	---	---
11AC40-CDD	Ant1	5190	43.52	5168.00	5211.52	---	---
11AC40-CDD	Ant2	5190	42.40	5168.80	5211.20	---	---
11AC40-CDD	Ant1	5230	46.48	5206.40	5252.88	---	---
11AC40-CDD	Ant2	5230	44.24	5207.76	5252.00	---	---
11AC40-CDD	Ant1	5270	47.36	5246.32	5293.68	---	---
11AC40-CDD	Ant2	5270	46.88	5246.40	5293.28	---	---
11AC40-CDD	Ant1	5310	43.92	5287.92	5331.84	---	---
11AC40-CDD	Ant2	5310	42.24	5288.88	5331.12	---	---
11AC40-CDD	Ant1	5510	43.12	5487.92	5531.04	---	---
11AC40-CDD	Ant2	5510	43.20	5487.68	5530.88	---	---
11AC40-CDD	Ant1	5550	46.64	5526.72	5573.36	---	---
11AC40-CDD	Ant2	5550	46.08	5526.72	5572.80	---	---
11AC40-CDD	Ant1	5710	44.24	5687.12	5731.36	---	---
11AC40-CDD	Ant2	5710	42.16	5689.28	5731.44	---	---
11AC40-CDD	Ant1	5710_UNII-2C	37.88	5687.12	5725	---	---
11AC40-CDD	Ant2	5710_UNII-2C	35.72	5689.28	5725	---	---
11AC40-CDD	Ant1	5710_UNII-3	6.36	5725	5731.36	---	---
11AC40-CDD	Ant2	5710_UNII-3	6.44	5725	5731.44	---	---
11AC80-CDD	Ant1	5210	84.96	5167.60	5252.56	---	---
11AC80-CDD	Ant2	5210	89.28	5165.20	5254.48	---	---
11AC80-CDD	Ant1	5290	90.72	5245.20	5335.92	---	---
11AC80-CDD	Ant2	5290	89.60	5245.36	5334.96	---	---
11AC80-CDD	Ant1	5530	90.08	5484.88	5574.96	---	---
11AC80-CDD	Ant2	5530	88.32	5486.16	5574.48	---	---
11AC80-CDD	Ant1	5610	87.84	5567.28	5655.12	---	---
11AC80-CDD	Ant2	5610	85.76	5566.16	5651.92	---	---
11AC80-CDD	Ant1	5690	88.80	5645.20	5734.00	---	---

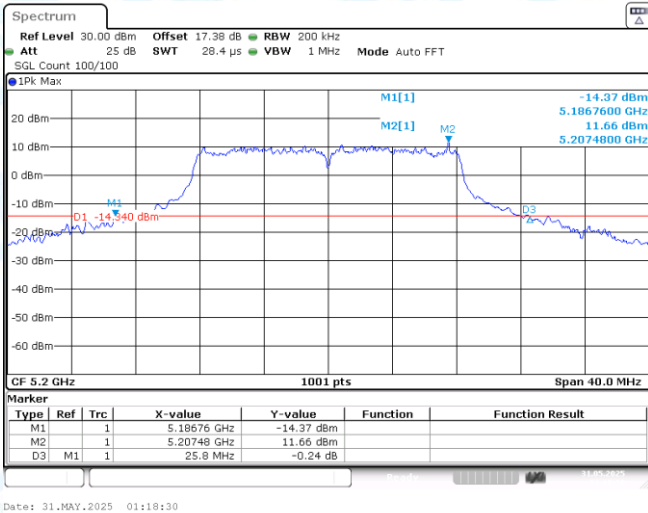
11AC80-CDD	Ant2	5690	87.68	5645.68	5733.36	---	---
11AC80-CDD	Ant1	5690_UNII-2C	79.8	5645.20	5725	---	---
11AC80-CDD	Ant2	5690_UNII-2C	79.32	5645.68	5725	---	---
11AC80-CDD	Ant1	5690_UNII-3	9	5725	5734.00	---	---
11AC80-CDD	Ant2	5690_UNII-3	8.36	5725	5733.36	---	---
11AC160-CDD	Ant1	5250	172.80	5163.60	5336.40	---	---
11AC160-CDD	Ant2	5250	170.56	5163.92	5334.48	---	---
11AC160-CDD	Ant1	5250_UNII-1	86.4	5163.60	5250	---	---
11AC160-CDD	Ant2	5250_UNII-1	86.08	5163.92	5250	---	---
11AC160-CDD	Ant1	5250_UNII-2A	86.4	5250	5336.40	---	---
11AC160-CDD	Ant2	5250_UNII-2A	84.48	5250	5334.48	---	---
11AC160-CDD	Ant1	5570	170.56	5485.20	5655.76	---	---
11AC160-CDD	Ant2	5570	166.72	5486.16	5652.88	---	---
11AX20-CDD	Ant1	5180	26.68	5166.60	5193.28	---	---
11AX20-CDD	Ant2	5180	30.76	5165.68	5196.44	---	---
11AX20-CDD	Ant1	5200	24.96	5187.20	5212.16	---	---
11AX20-CDD	Ant2	5200	27.44	5187.56	5215.00	---	---
11AX20-CDD	Ant1	5240	24.92	5228.04	5252.96	---	---
11AX20-CDD	Ant2	5240	29.92	5227.20	5257.12	---	---
11AX20-CDD	Ant1	5260	22.36	5248.92	5271.28	---	---
11AX20-CDD	Ant2	5260	21.88	5249.16	5271.04	---	---
11AX20-CDD	Ant1	5280	22.64	5268.40	5291.04	---	---
11AX20-CDD	Ant2	5280	22.04	5268.80	5290.84	---	---
11AX20-CDD	Ant1	5320	22.08	5308.72	5330.80	---	---
11AX20-CDD	Ant2	5320	22.60	5308.56	5331.16	---	---
11AX20-CDD	Ant1	5500	21.88	5488.92	5510.80	---	---
11AX20-CDD	Ant2	5500	23.12	5488.72	5511.84	---	---
11AX20-CDD	Ant1	5580	22.76	5568.52	5591.28	---	---
11AX20-CDD	Ant2	5580	22.40	5569.20	5591.60	---	---
11AX20-CDD	Ant1	5720	23.40	5707.92	5731.32	---	---
11AX20-CDD	Ant2	5720	23.48	5708.32	5731.80	---	---
11AX20-CDD	Ant1	5720_UNII-2C	17.08	5707.92	5725	---	---
11AX20-CDD	Ant2	5720_UNII-2C	16.68	5708.32	5725	---	---
11AX20-CDD	Ant1	5720_UNII-3	6.32	5725	5731.32	---	---
11AX20-CDD	Ant2	5720_UNII-3	6.8	5725	5731.80	---	---
11AX40-CDD	Ant1	5190	41.20	5169.60	5210.80	---	---
11AX40-CDD	Ant2	5190	41.84	5169.52	5211.36	---	---
11AX40-CDD	Ant1	5230	43.52	5209.44	5252.96	---	---
11AX40-CDD	Ant2	5230	42.96	5208.64	5251.60	---	---
11AX40-CDD	Ant1	5270	43.84	5248.24	5292.08	---	---
11AX40-CDD	Ant2	5270	42.32	5248.56	5290.88	---	---
11AX40-CDD	Ant1	5310	41.60	5289.44	5331.04	---	---
11AX40-CDD	Ant2	5310	43.20	5288.00	5331.20	---	---
11AX40-CDD	Ant1	5510	41.92	5489.04	5530.96	---	---
11AX40-CDD	Ant2	5510	42.96	5488.80	5531.76	---	---
11AX40-CDD	Ant1	5550	43.20	5528.64	5571.84	---	---
11AX40-CDD	Ant2	5550	44.16	5527.92	5572.08	---	---
11AX40-CDD	Ant1	5710	42.88	5687.92	5730.80	---	---
11AX40-CDD	Ant2	5710	43.20	5688.08	5731.28	---	---
11AX40-CDD	Ant1	5710_UNII-2C	37.08	5687.92	5725	---	---
11AX40-CDD	Ant2	5710_UNII-2C	36.92	5688.08	5725	---	---
11AX40-CDD	Ant1	5710_UNII-3	5.8	5725	5730.80	---	---
11AX40-CDD	Ant2	5710_UNII-3	6.28	5725	5731.28	---	---
11AX80-CDD	Ant1	5210	80.64	5169.68	5250.32	---	---
11AX80-CDD	Ant2	5210	85.60	5166.96	5252.56	---	---
11AX80-CDD	Ant1	5290	82.72	5248.56	5331.28	---	---
11AX80-CDD	Ant2	5290	81.92	5248.24	5330.16	---	---
11AX80-CDD	Ant1	5530	83.68	5489.68	5573.36	---	---
11AX80-CDD	Ant2	5530	83.04	5488.08	5571.12	---	---

11AX80-CDD	Ant1	5610	85.28	5567.76	5653.04	---	---
11AX80-CDD	Ant2	5610	85.28	5567.60	5652.88	---	---
11AX80-CDD	Ant1	5690	86.24	5646.64	5732.88	---	---
11AX80-CDD	Ant2	5690	82.40	5648.88	5731.28	---	---
11AX80-CDD	Ant1	5690_UNII-2C	78.36	5646.64	5725	---	---
11AX80-CDD	Ant2	5690_UNII-2C	76.12	5648.88	5725	---	---
11AX80-CDD	Ant1	5690_UNII-3	7.88	5725	5732.88	---	---
11AX80-CDD	Ant2	5690_UNII-3	6.28	5725	5731.28	---	---
11AX160-CDD	Ant1	5250	165.76	5166.80	5332.56	---	---
11AX160-CDD	Ant2	5250	162.88	5168.40	5331.28	---	---
11AX160-CDD	Ant1	5250_UNII-1	83.2	5166.80	5250	---	---
11AX160-CDD	Ant2	5250_UNII-1	81.6	5168.40	5250	---	---
11AX160-CDD	Ant1	5250_UNII-2A	82.56	5250	5332.56	---	---
11AX160-CDD	Ant2	5250_UNII-2A	81.28	5250	5331.28	---	---
11AX160-CDD	Ant1	5570	167.36	5485.84	5653.20	---	---
11AX160-CDD	Ant2	5570	163.84	5488.40	5652.24	---	---

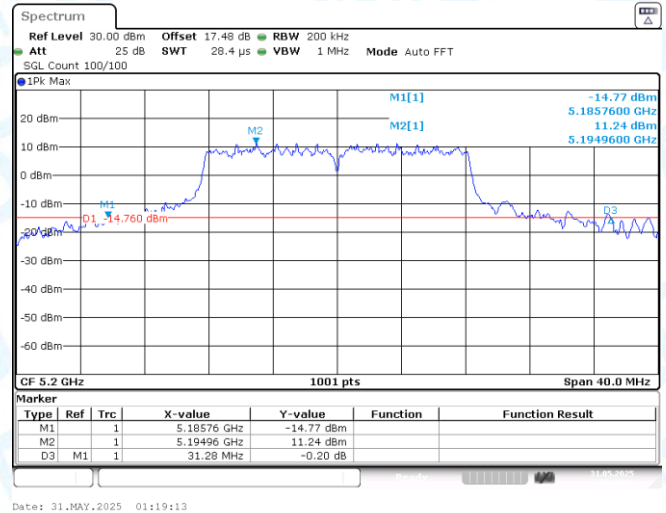
1.2 Test Graphs



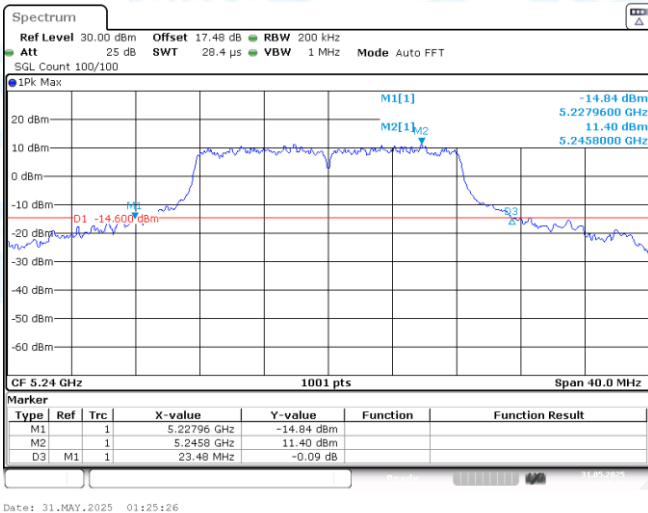
11A-Ant1-5180



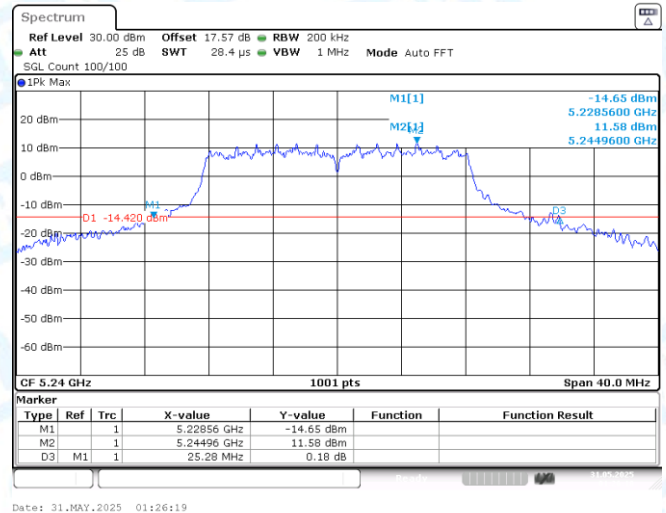
11A-Ant2-5180



11A-Ant1-5200

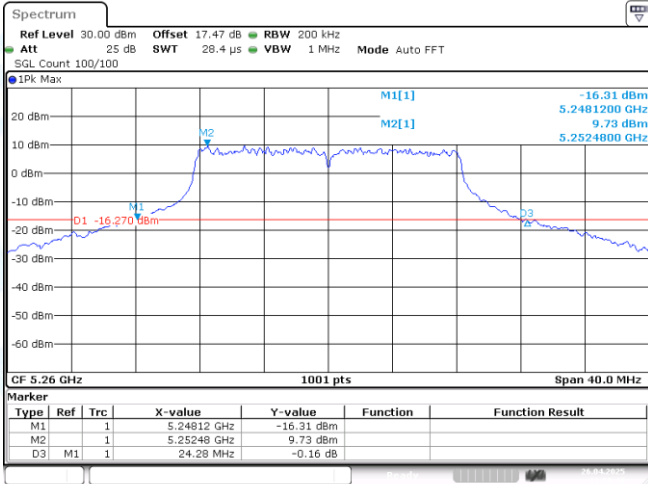


11A-Ant2-5200

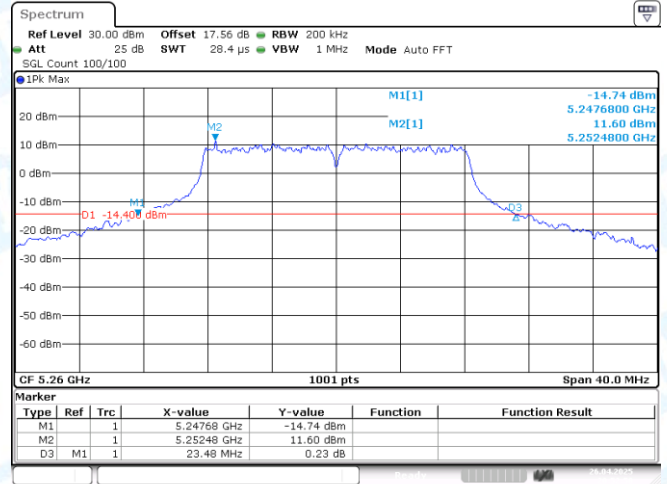


11A-Ant1-5240

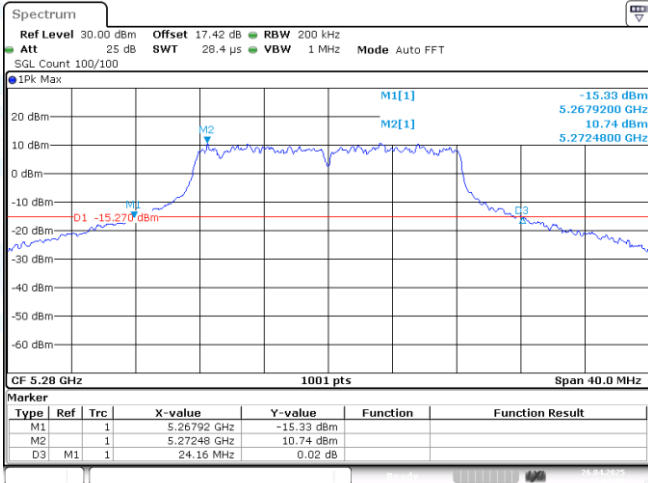
11A-Ant2-5240



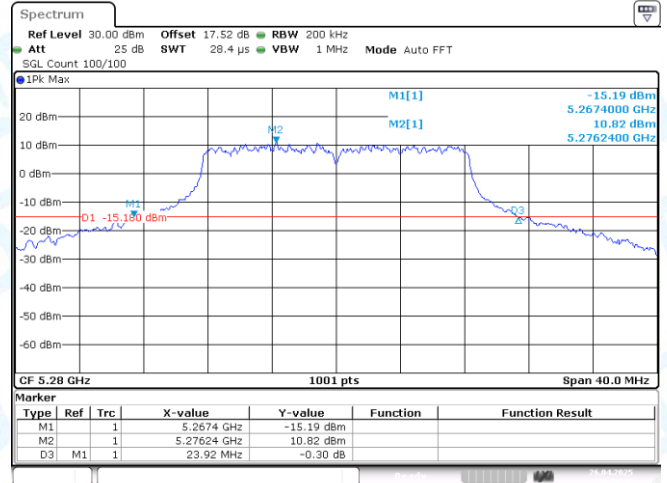
11A-Ant1-5260



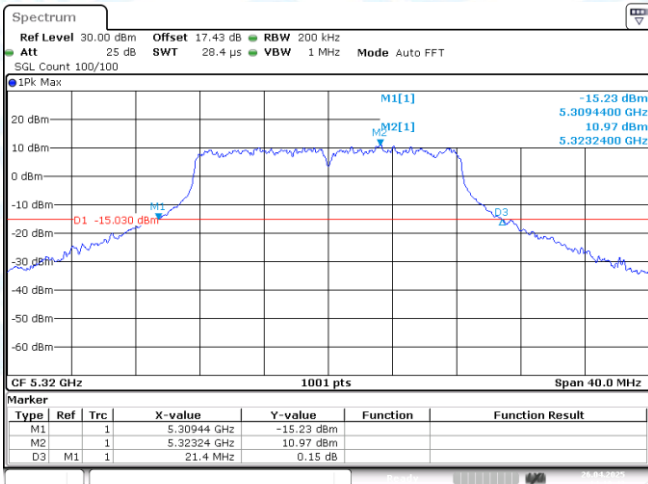
11A-Ant2-5260



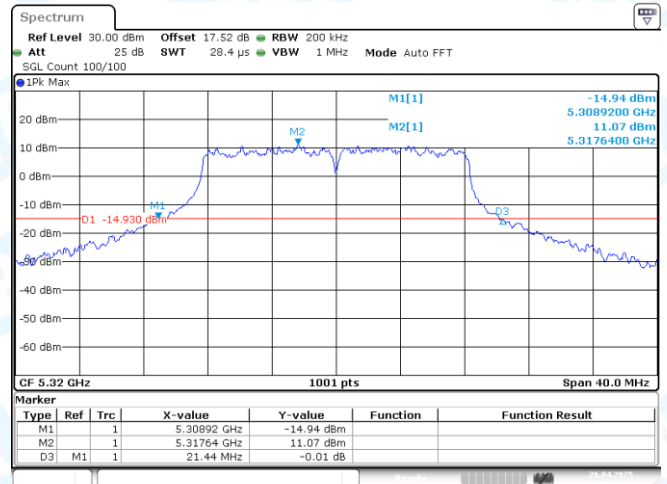
11A-Ant1-5280



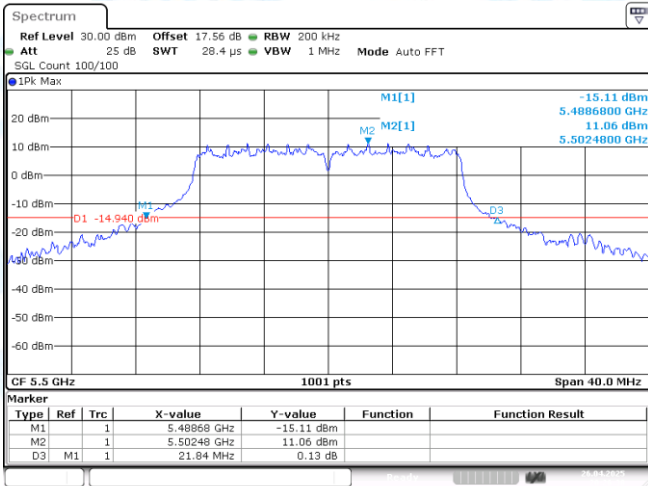
11A-Ant2-5280



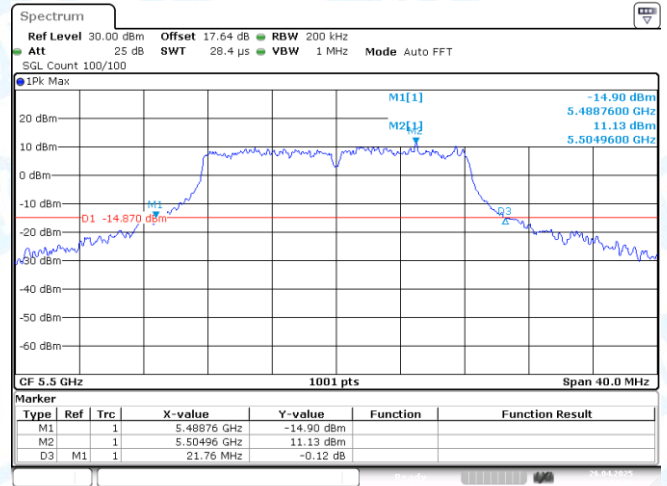
11A-Ant1-5320



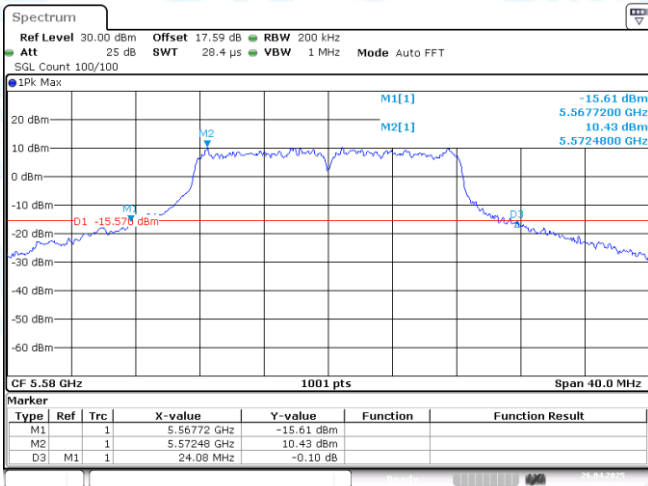
11A-Ant2-5320



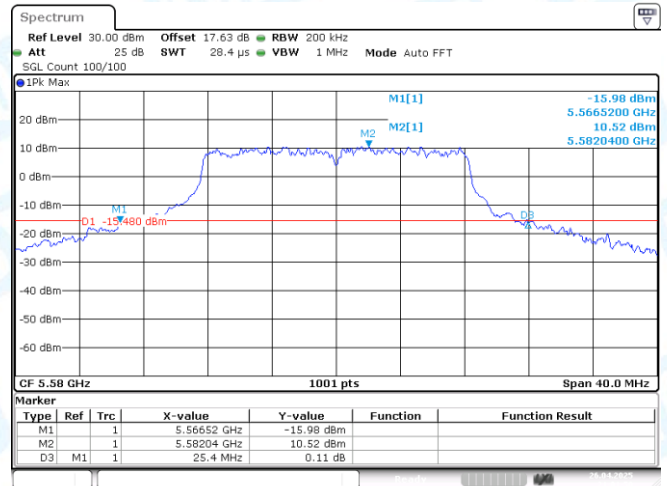
11A-Ant1-5500



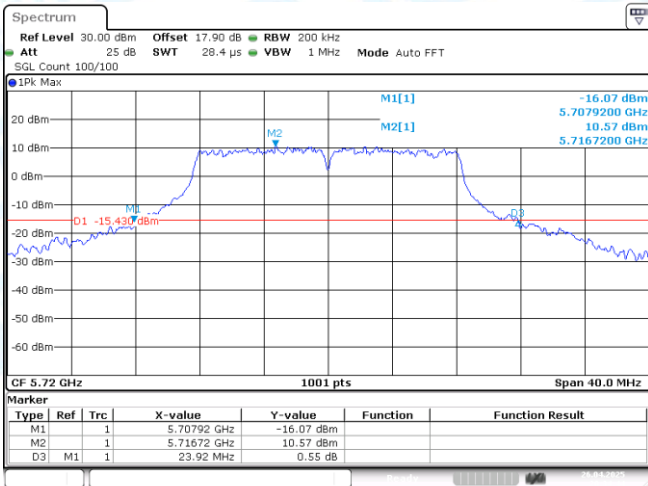
11A-Ant2-5500



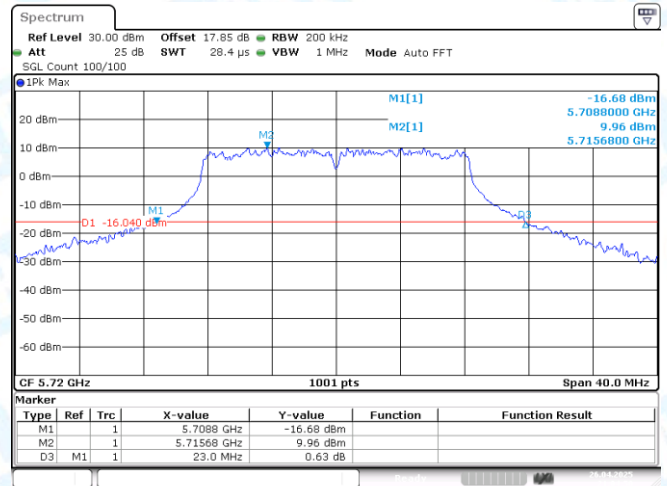
11A-Ant1-5580



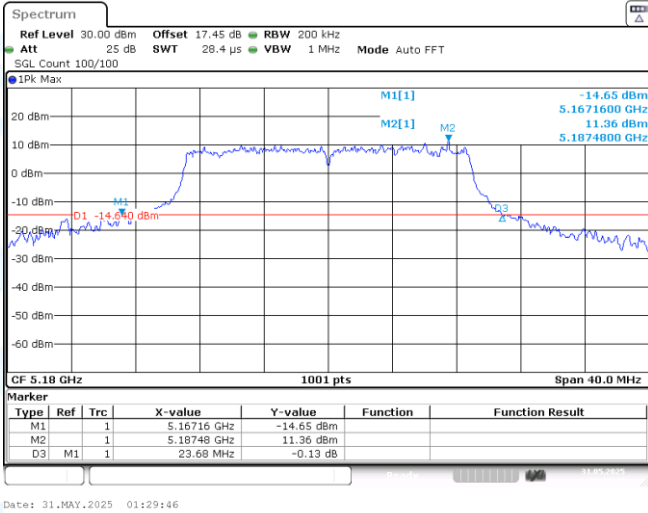
11A-Ant2-5580



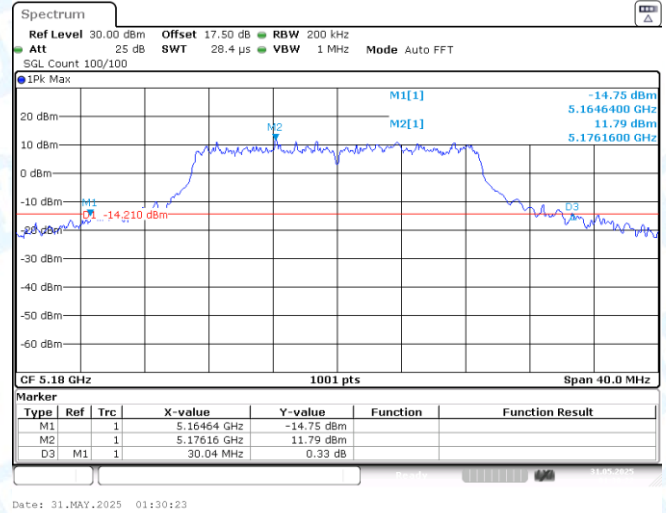
11A-Ant1-5720



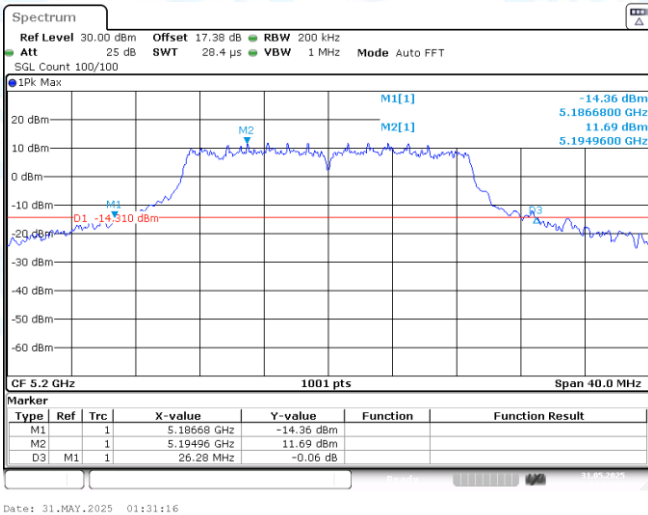
11A-Ant2-5720



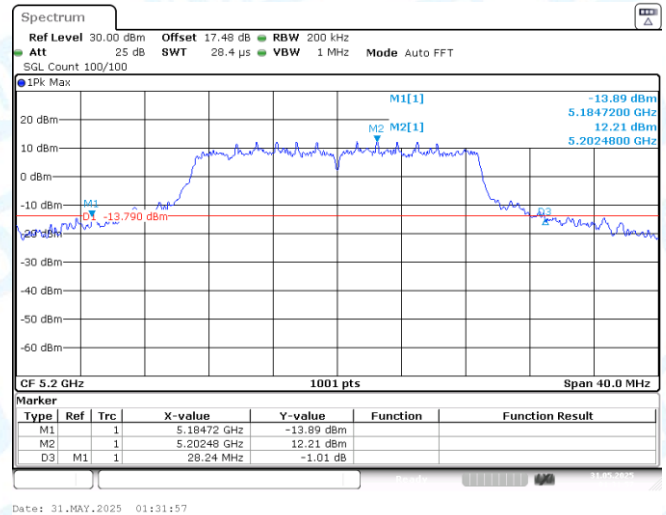
11N20-CDD-Ant1-5180



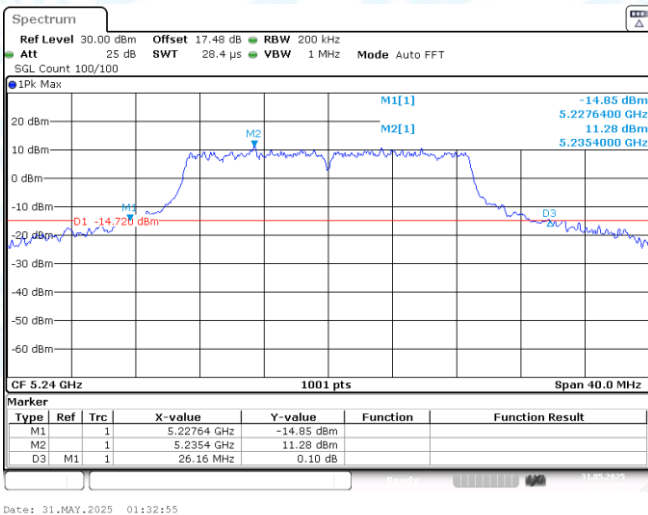
11N20-CDD-Ant2-5180



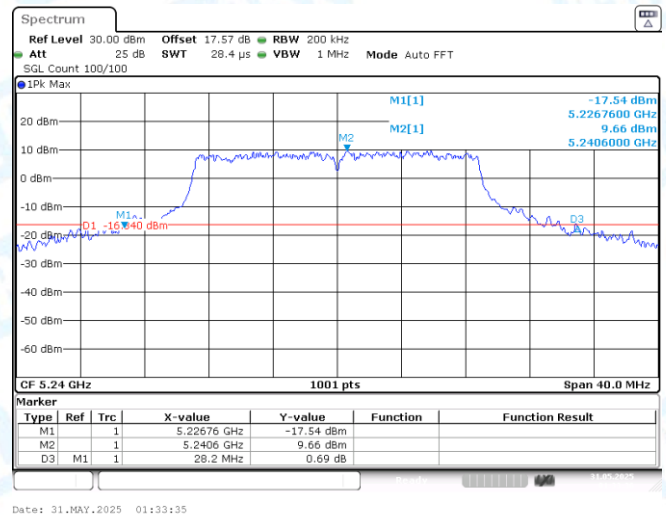
11N20-CDD-Ant1-5200



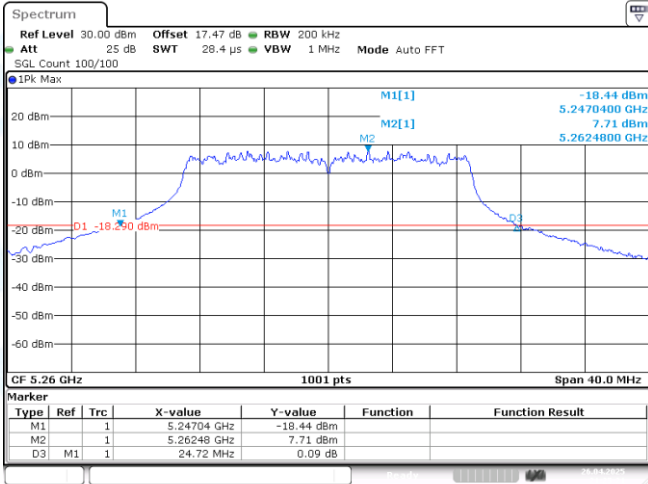
11N20-CDD-Ant2-5200



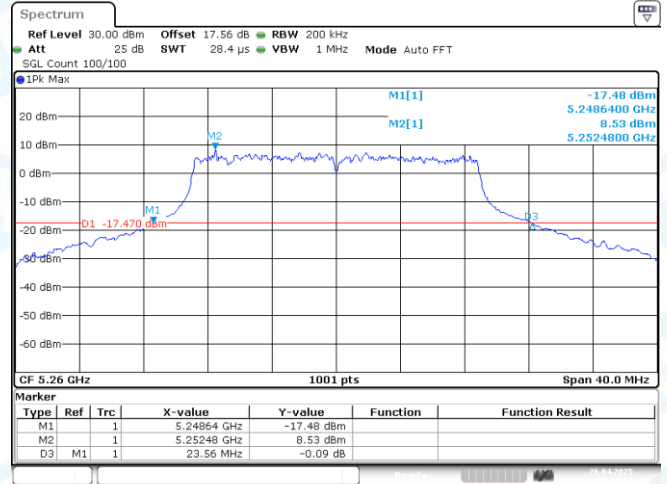
11N20-CDD-Ant1-5240



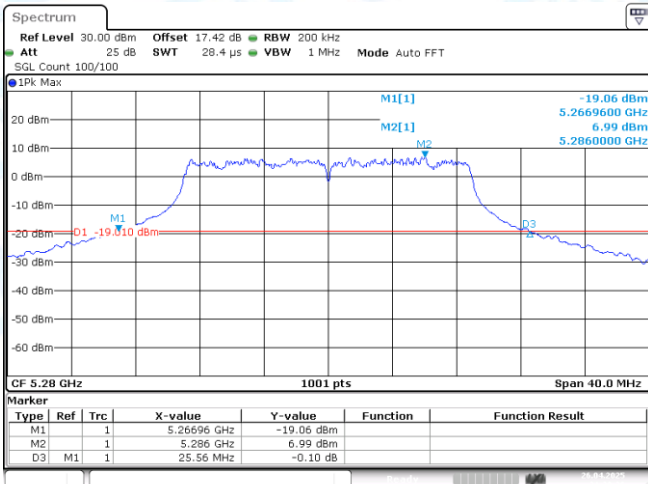
11N20-CDD-Ant2-5240



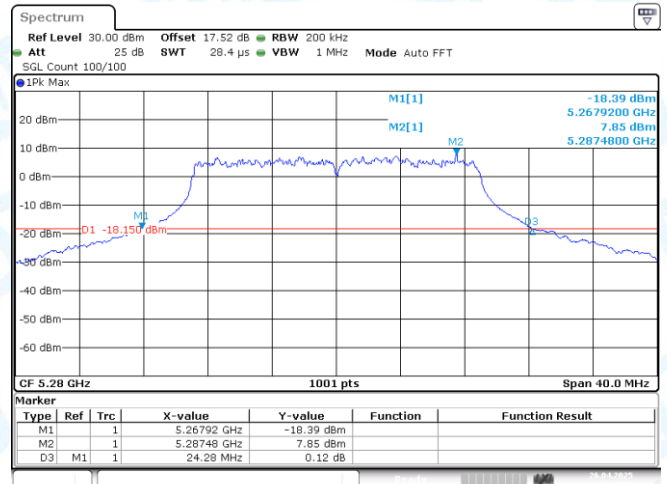
11N20-CDD-Ant1-5260



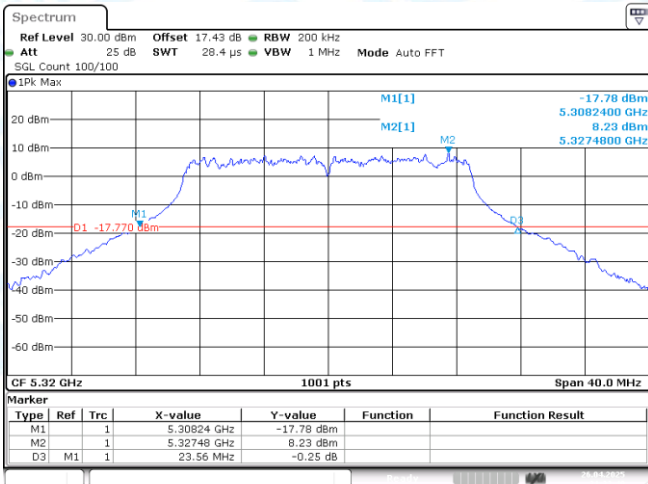
11N20-CDD-Ant2-5260



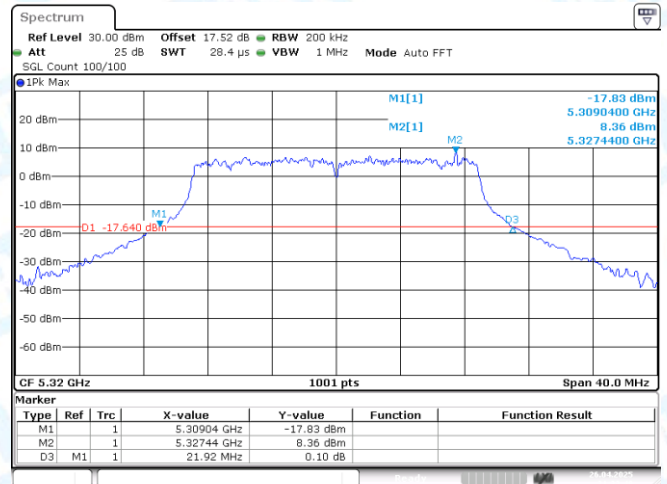
11N20-CDD-Ant1-5280



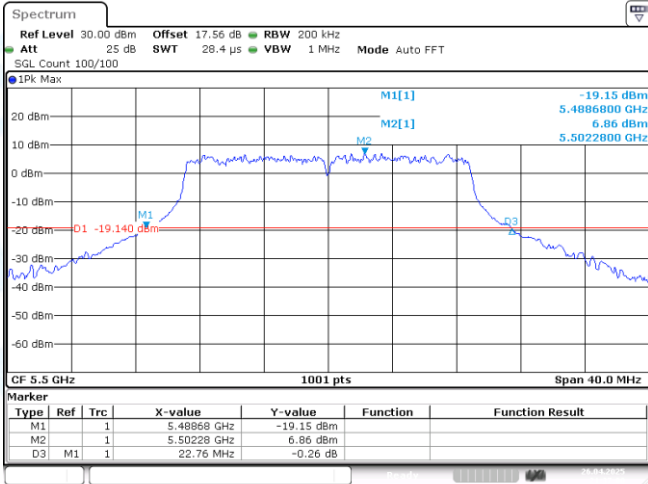
11N20-CDD-Ant2-5280



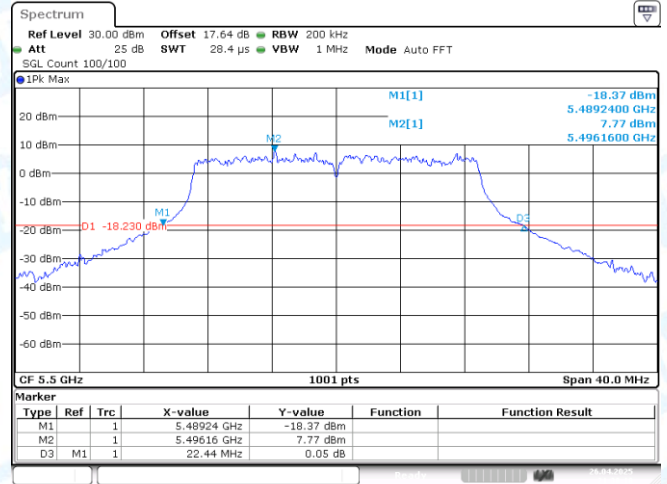
11N20-CDD-Ant1-5320



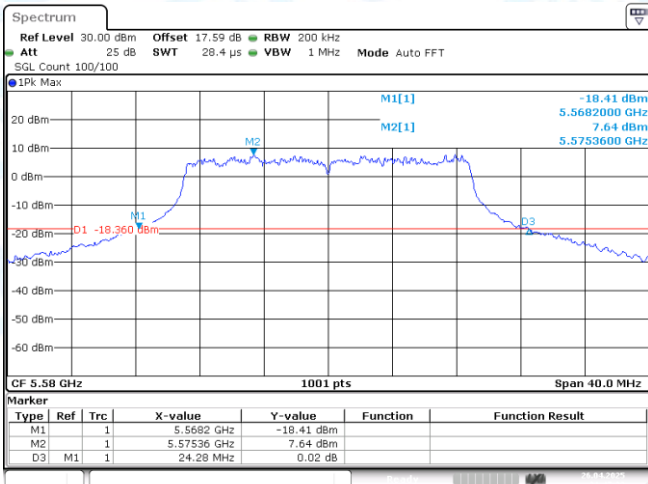
11N20-CDD-Ant2-5320



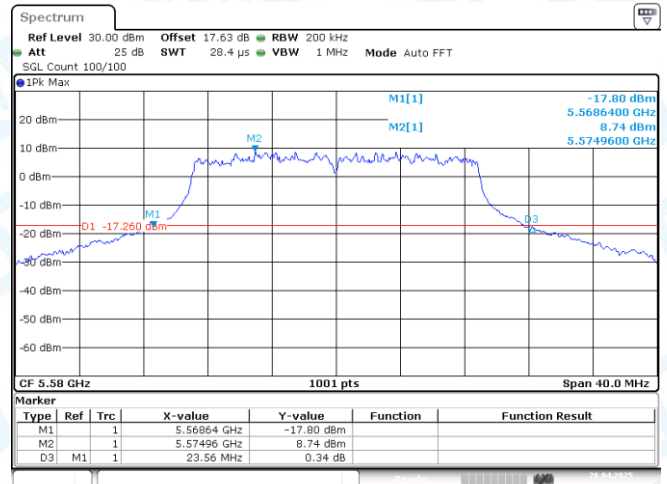
11N20-CDD-Ant1-5500



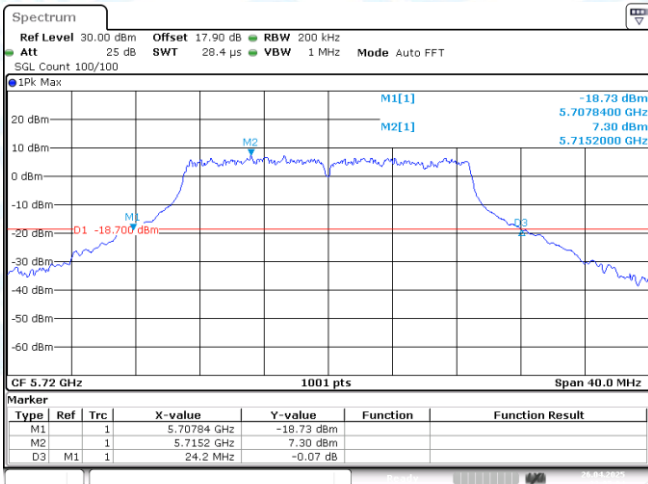
11N20-CDD-Ant2-5500



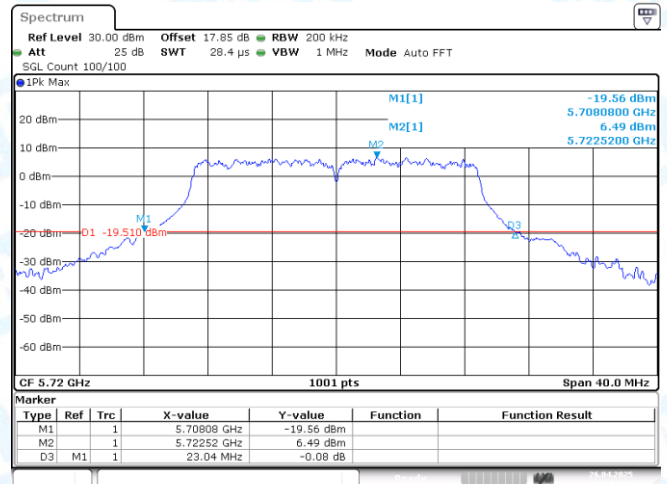
11N20-CDD-Ant1-5580



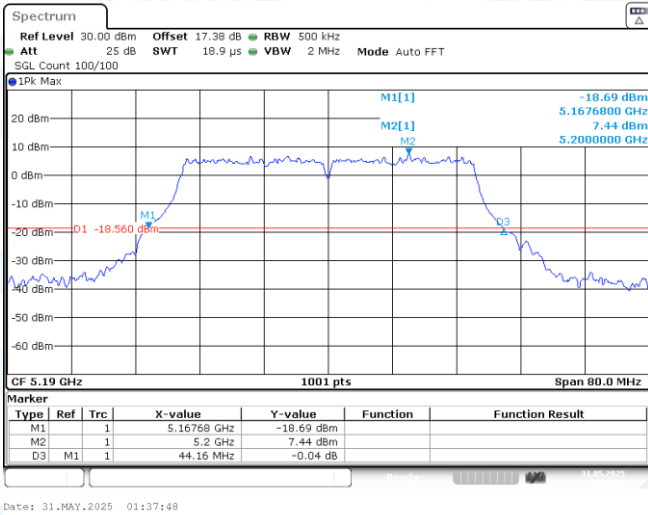
11N20-CDD-Ant2-5580



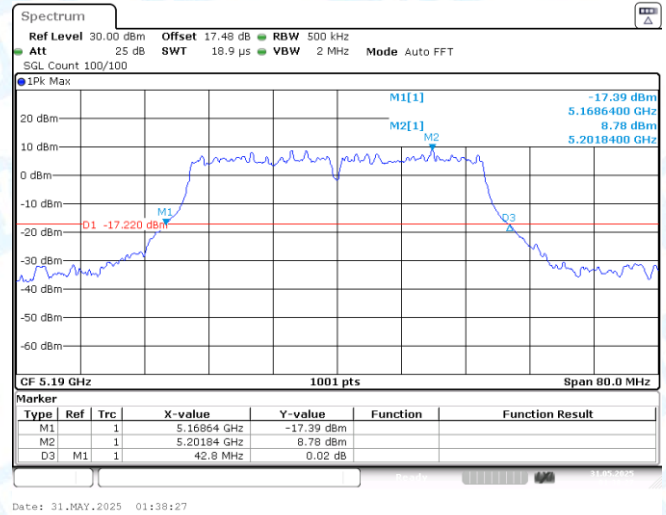
11N20-CDD-Ant1-5720



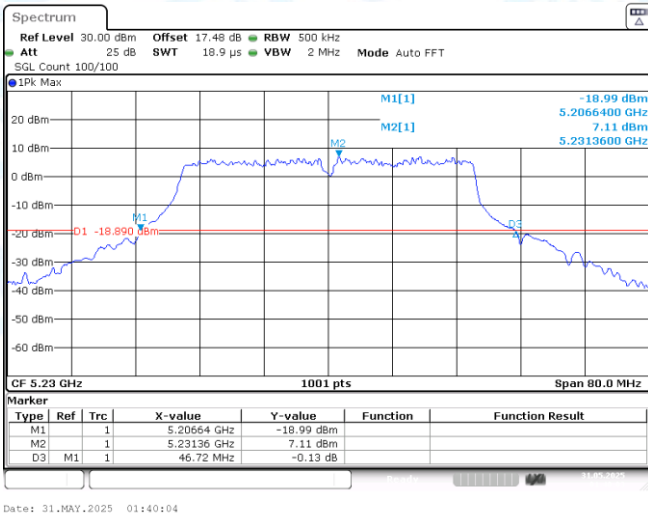
11N20-CDD-Ant2-5720



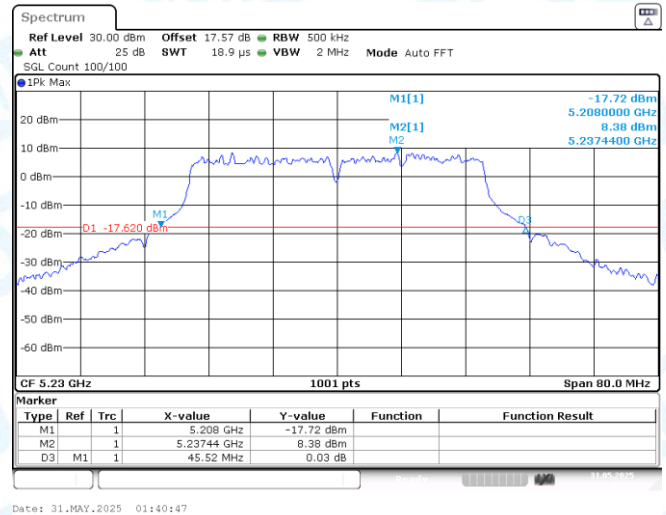
11N40-CDD-Ant1-5190



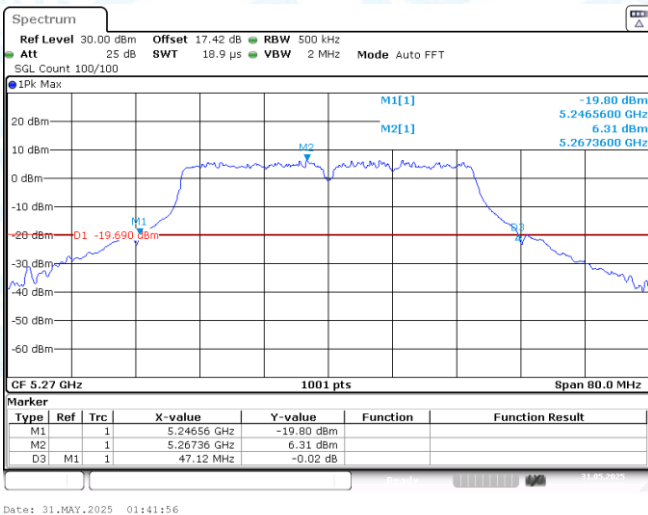
11N40-CDD-Ant2-5190



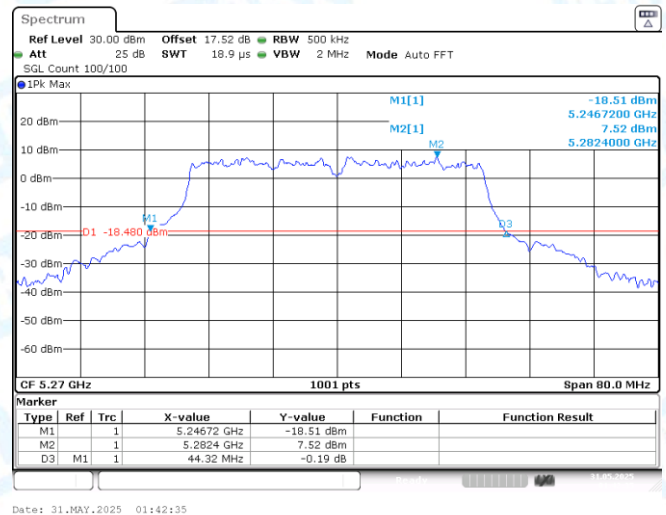
11N40-CDD-Ant1-5230



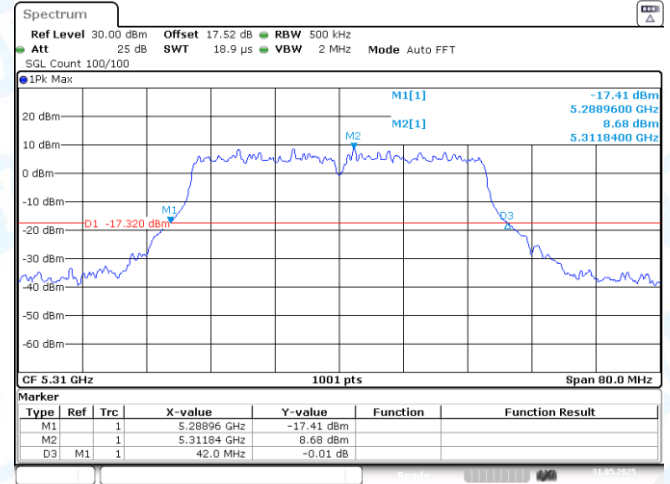
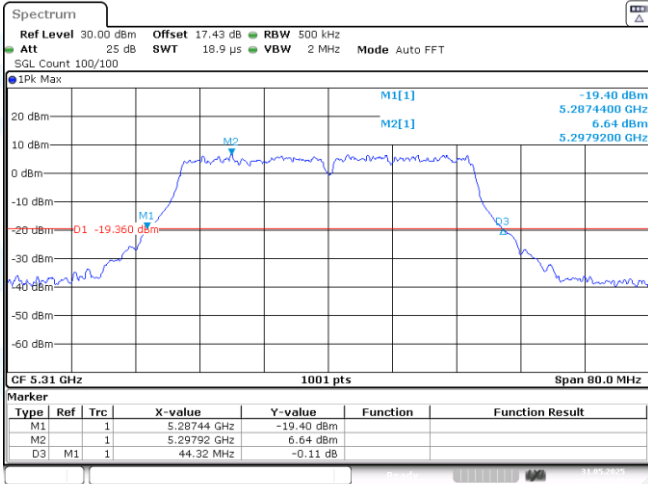
11N40-CDD-Ant2-5230



11N40-CDD-Ant1-5270

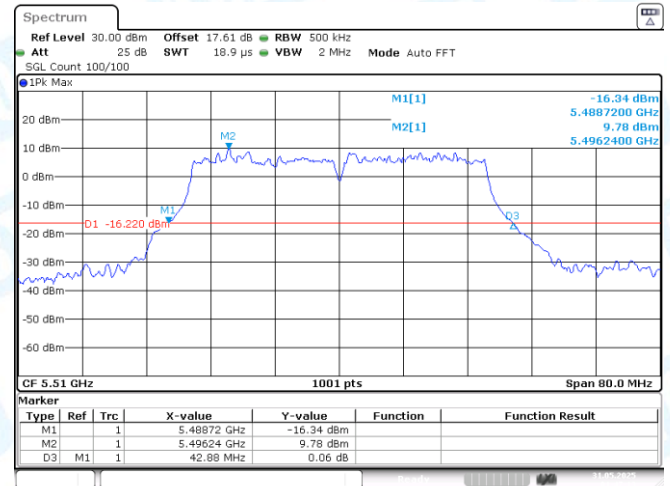
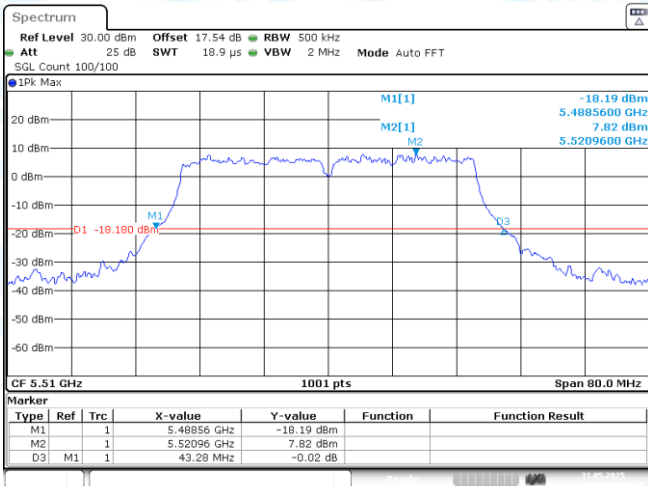


11N40-CDD-Ant2-5270



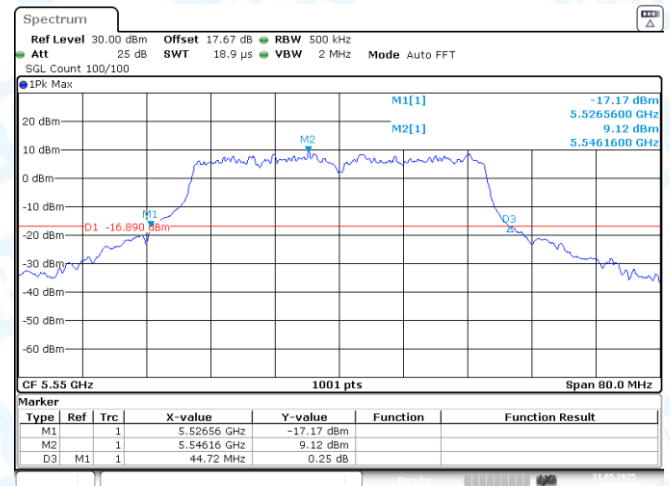
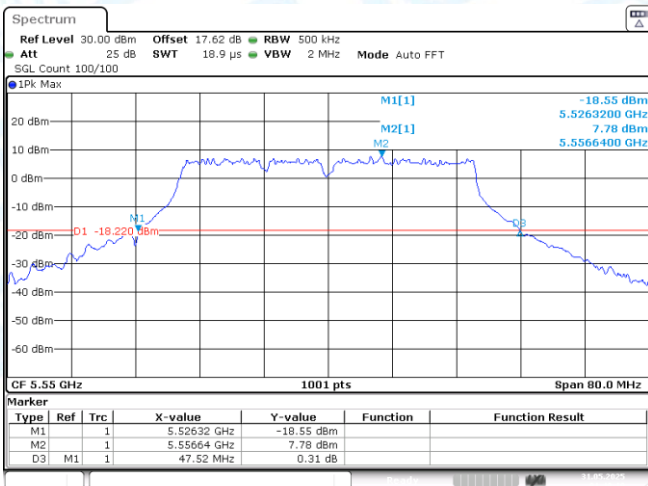
11N40-CDD-Ant1-5310

11N40-CDD-Ant2-5310



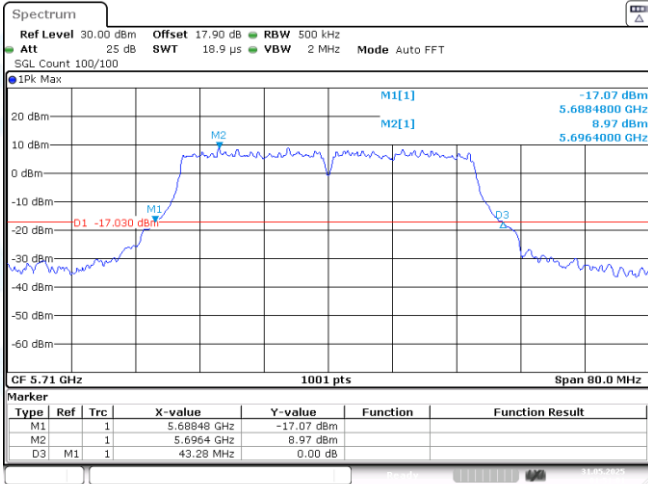
11N40-CDD-Ant1-5510

11N40-CDD-Ant2-5510

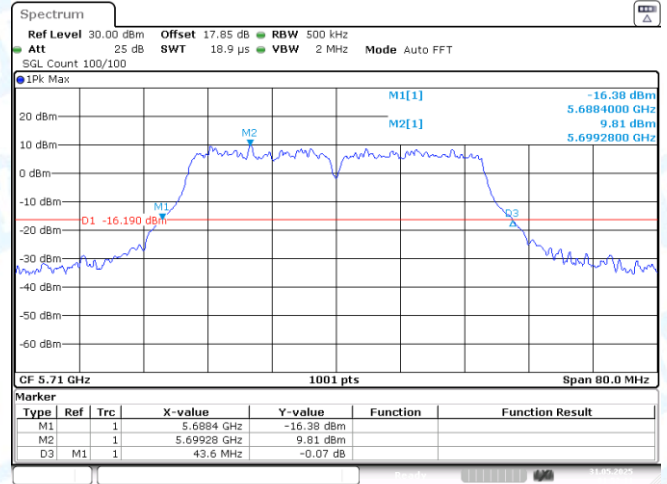


11N40-CDD-Ant1-5550

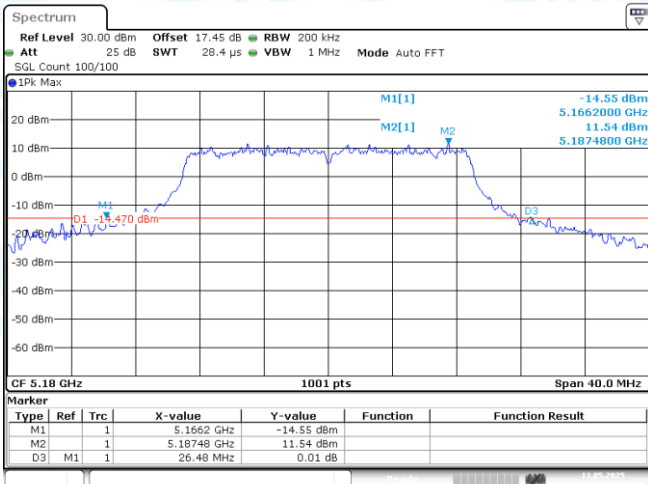
11N40-CDD-Ant2-5550



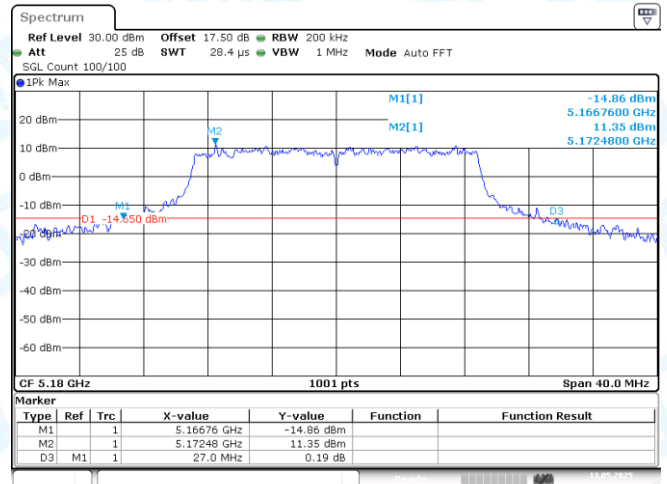
11N40-CDD-Ant1-5710



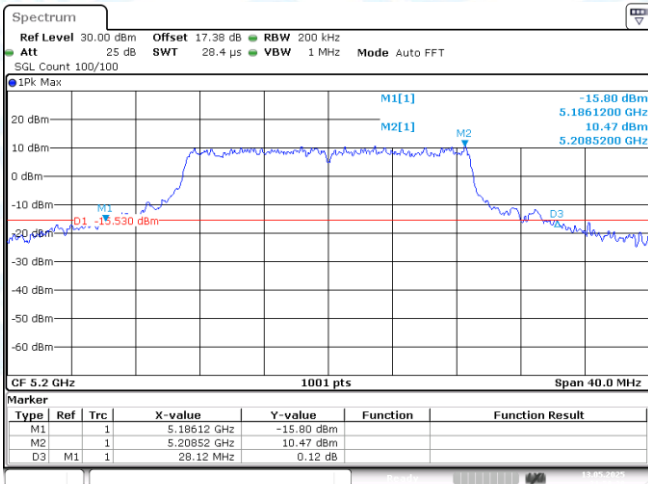
11N40-CDD-Ant2-5710



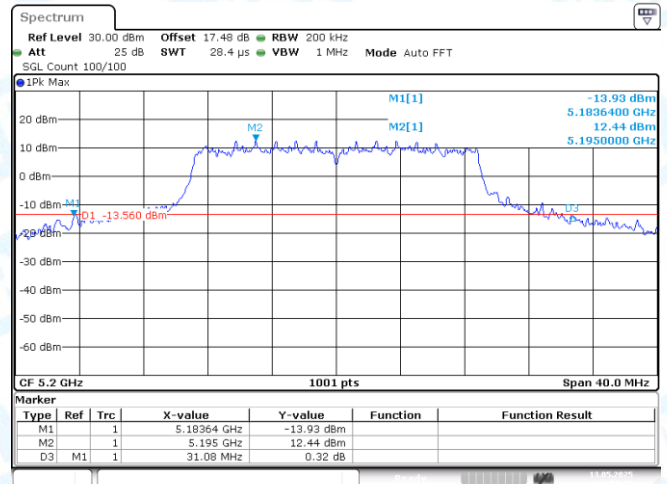
11AC20-CDD-Ant1-5180



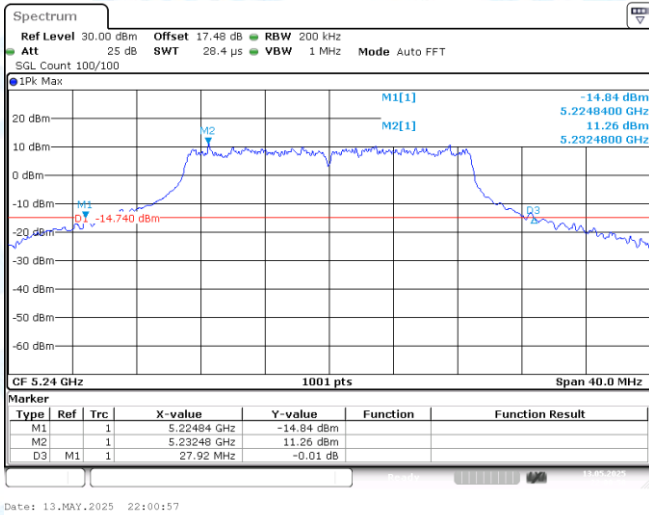
11AC20-CDD-Ant2-5180



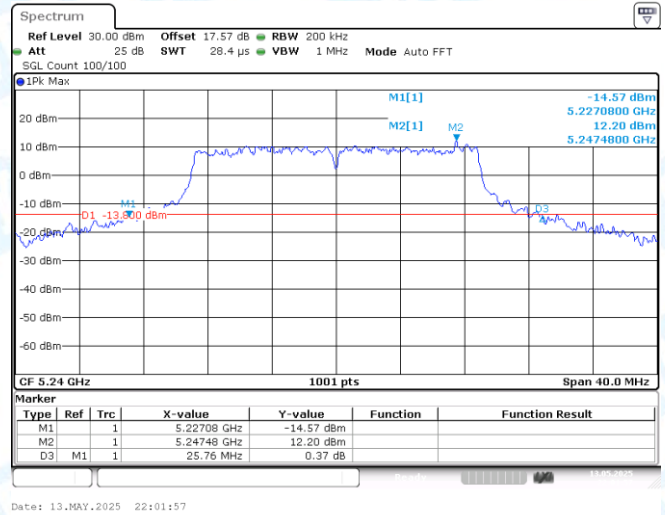
11AC20-CDD-Ant1-5200



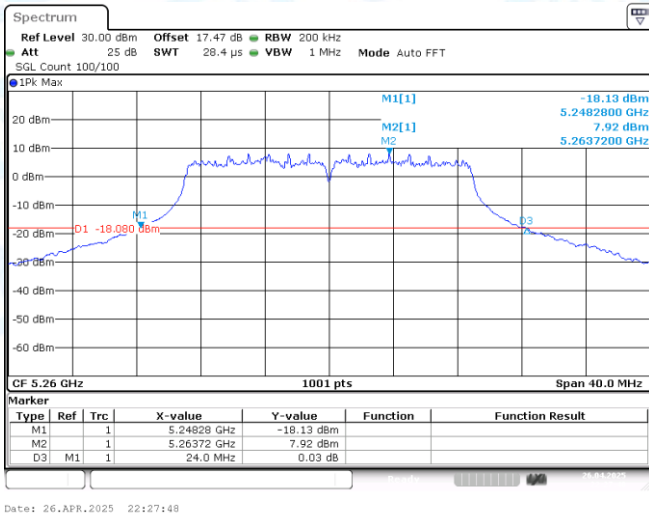
11AC20-CDD-Ant2-5200



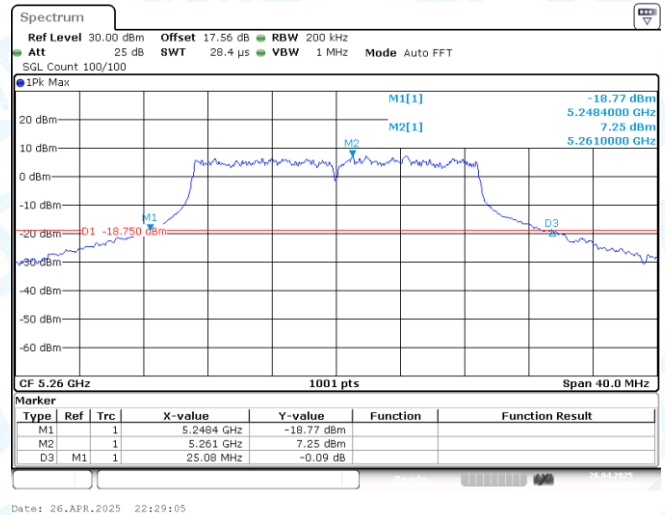
11AC20-CDD-Ant1-5240



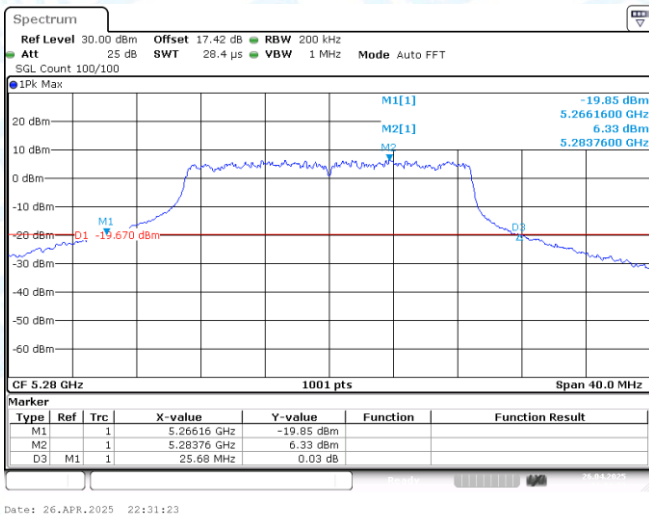
11AC20-CDD-Ant2-5240



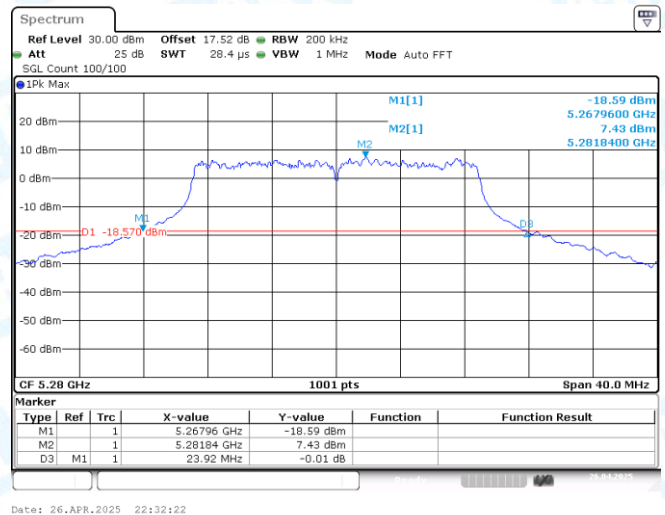
11AC20-CDD-Ant1-5260



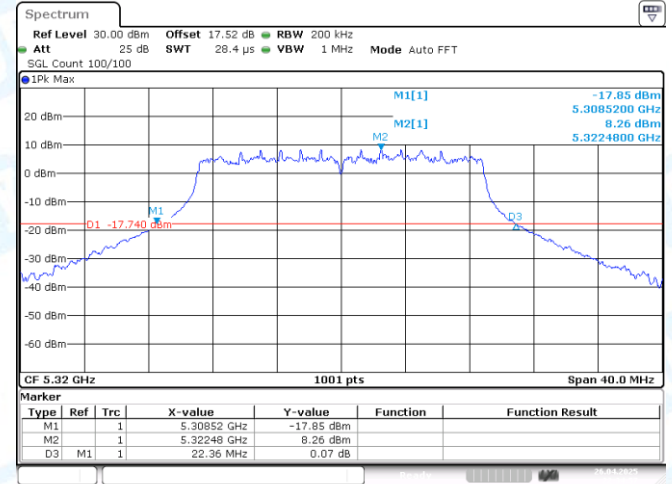
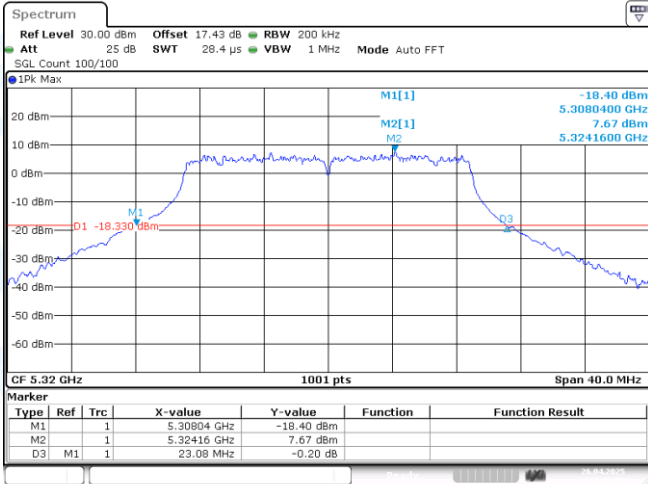
11AC20-CDD-Ant2-5260



11AC20-CDD-Ant1-5280

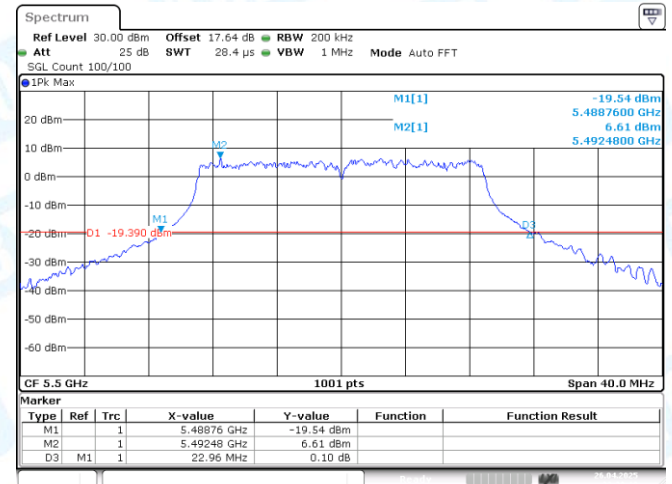
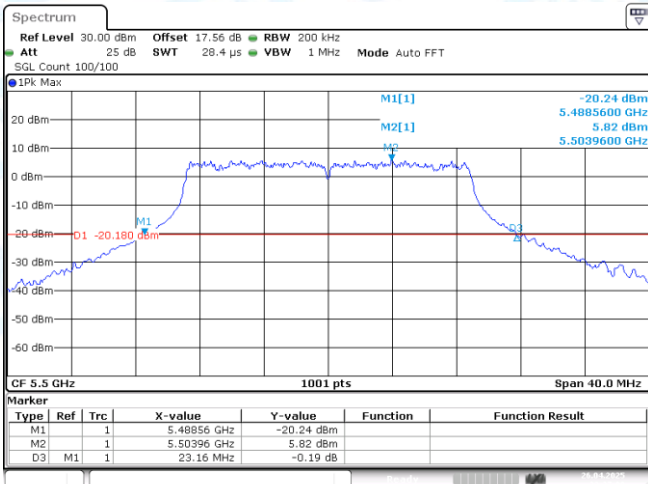


11AC20-CDD-Ant2-5280



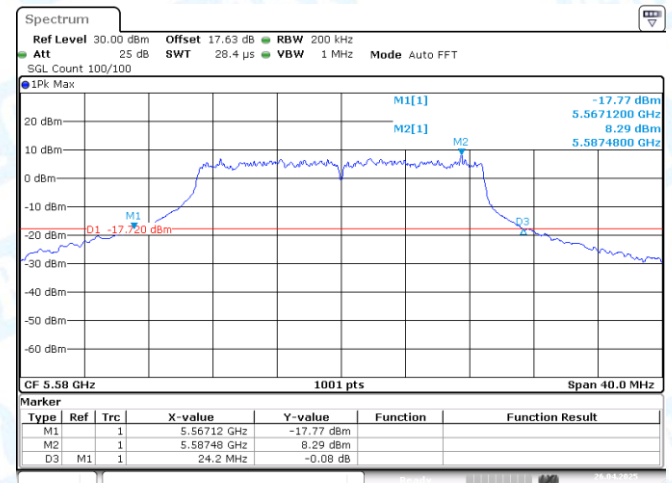
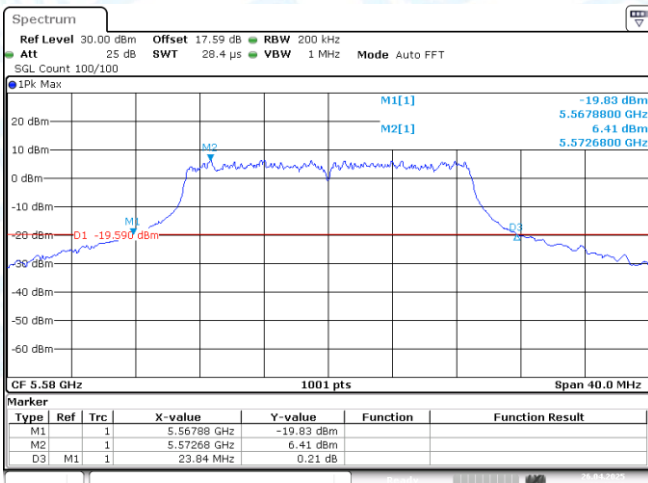
11AC20-CDD-Ant1-5320

11AC20-CDD-Ant2-5320



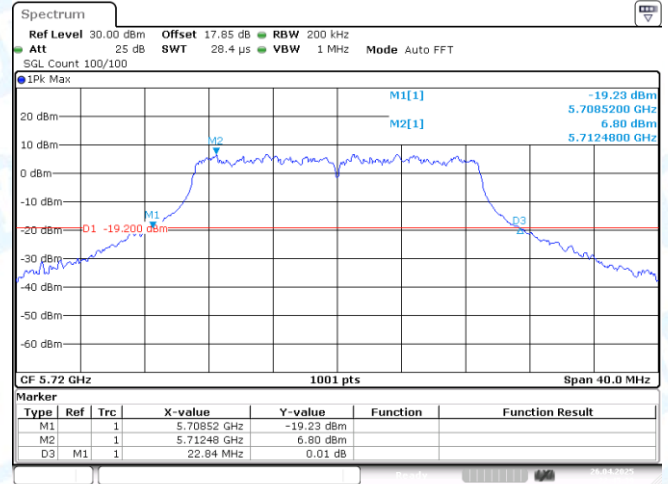
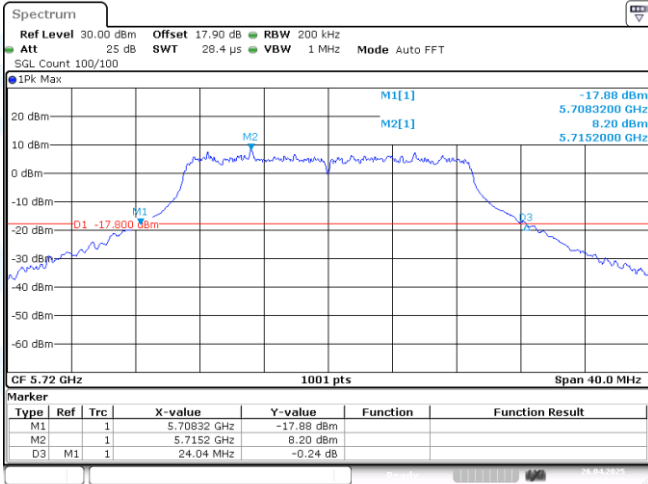
11AC20-CDD-Ant1-5500

11AC20-CDD-Ant2-5500



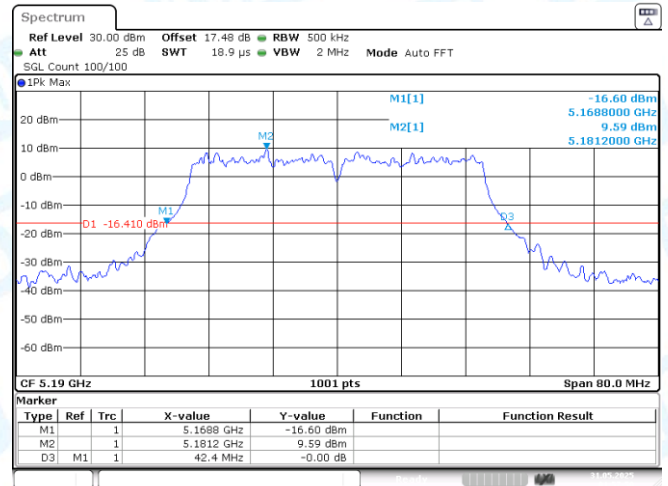
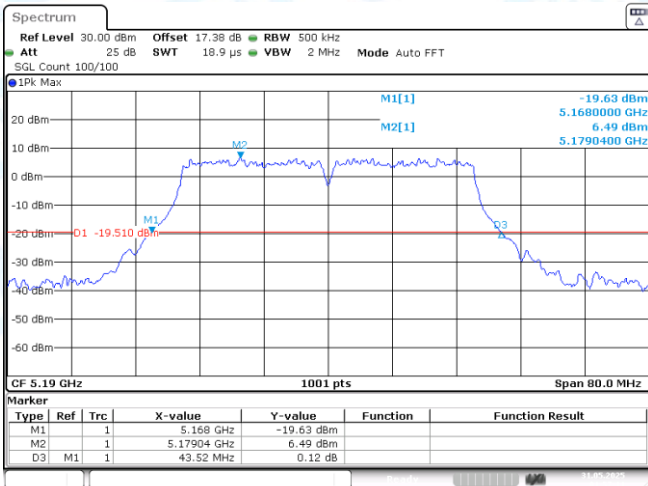
11AC20-CDD-Ant1-5580

11AC20-CDD-Ant2-5580



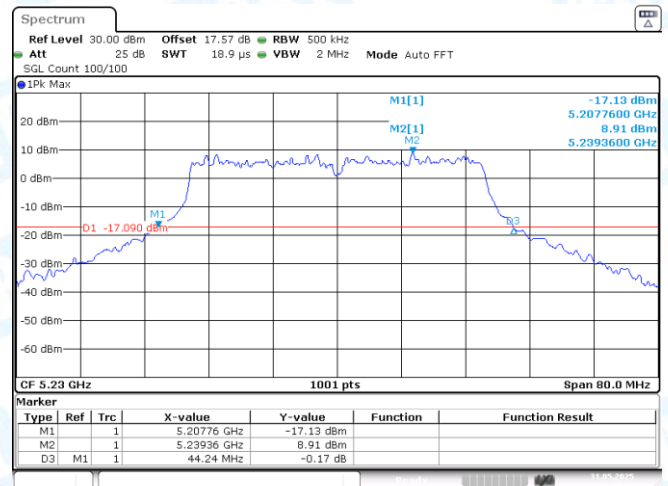
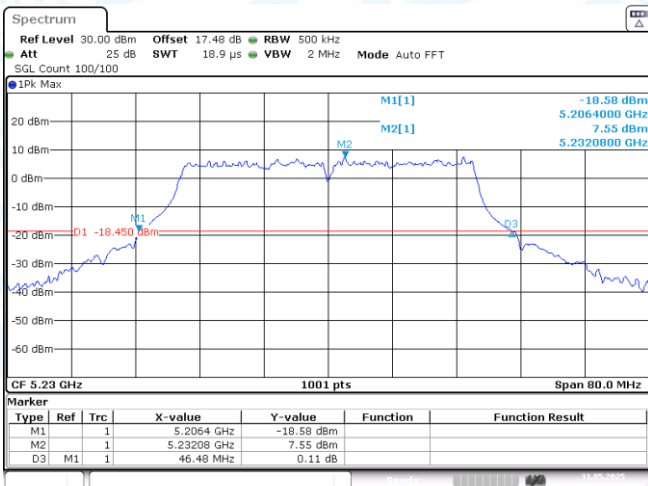
11AC20-CDD-Ant1-5720

11AC20-CDD-Ant2-5720



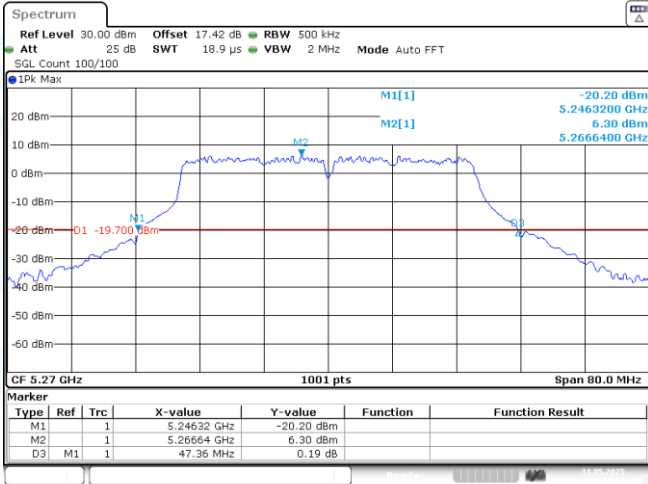
11AC40-CDD-Ant1-5190

11AC40-CDD-Ant2-5190

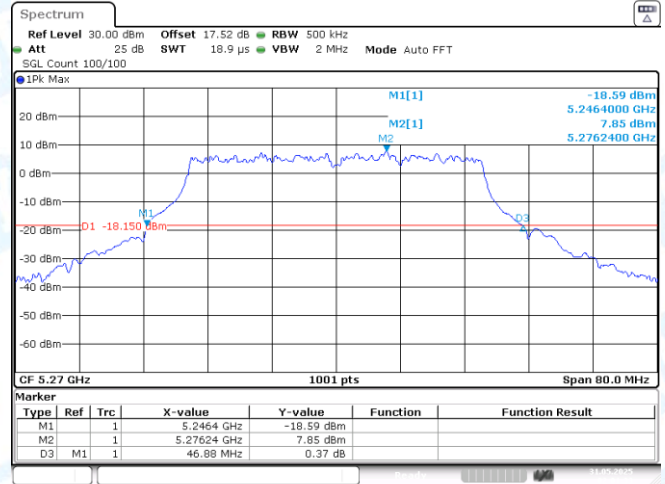


11AC40-CDD-Ant1-5230

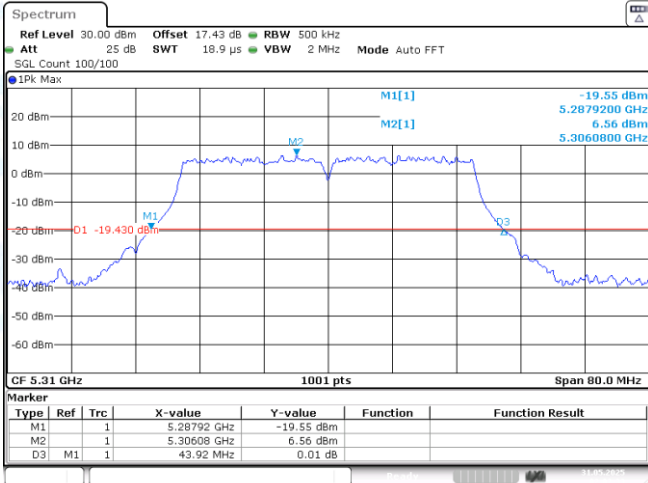
11AC40-CDD-Ant2-5230



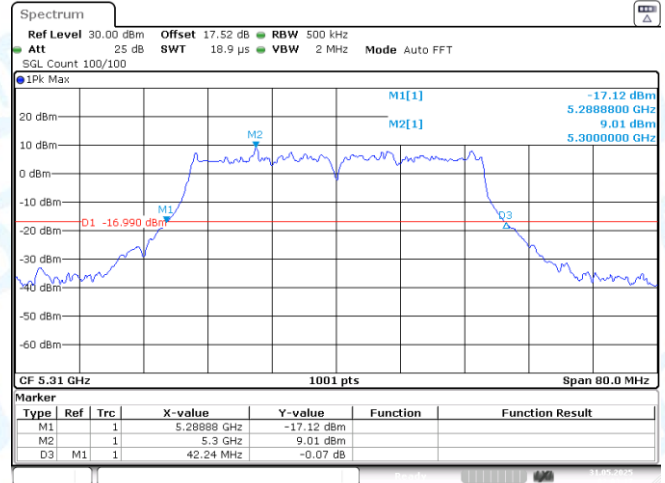
11AC40-CDD-Ant1-5270



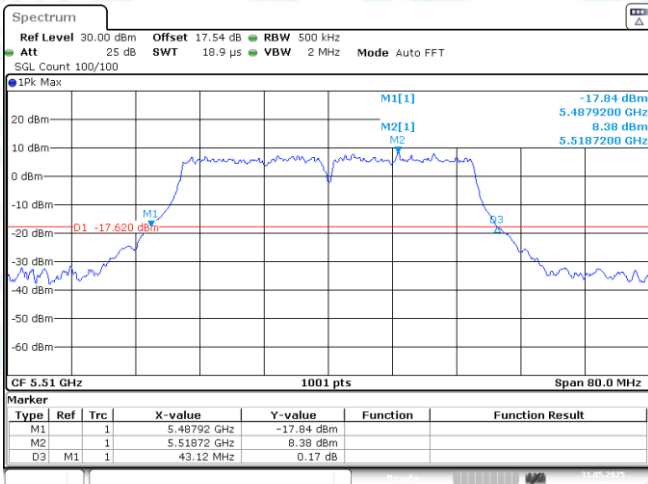
11AC40-CDD-Ant2-5270



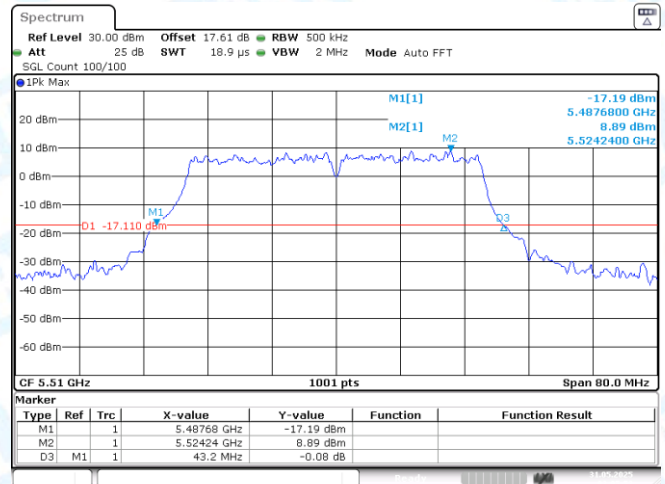
11AC40-CDD-Ant1-5310



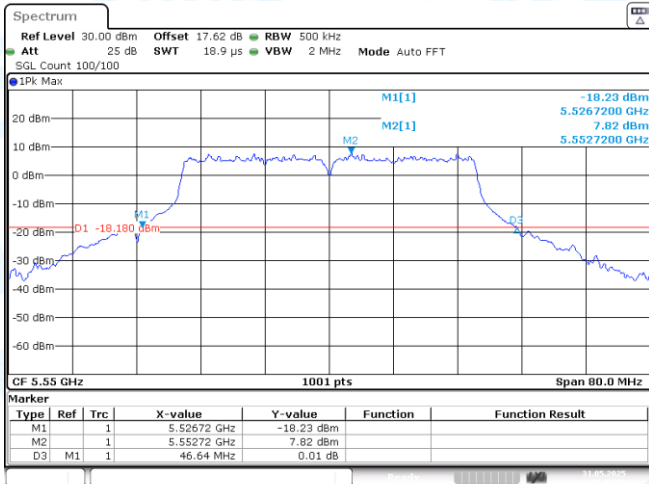
11AC40-CDD-Ant2-5310



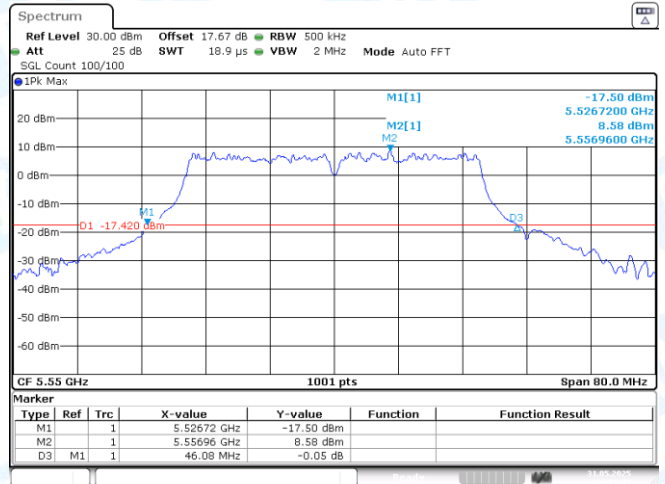
11AC40-CDD-Ant1-5510



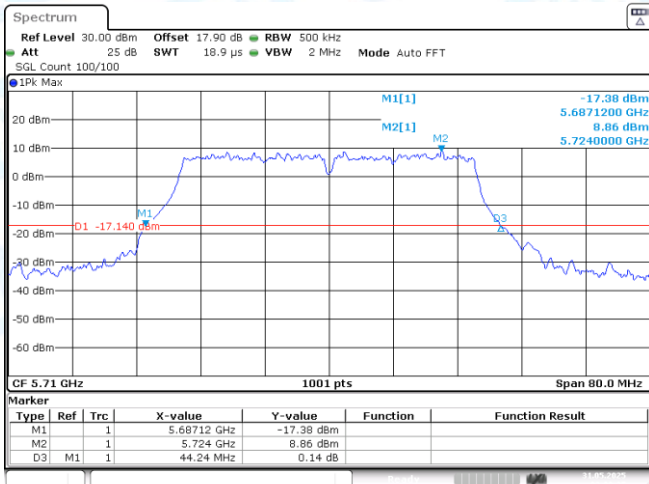
11AC40-CDD-Ant2-5510



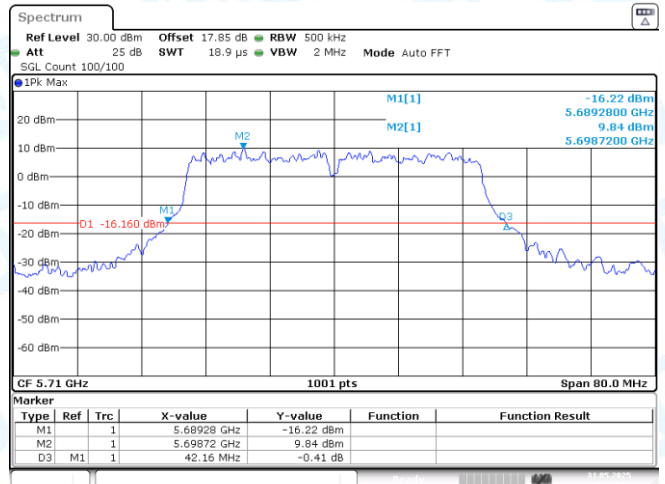
11AC40-CDD-Ant1-5550



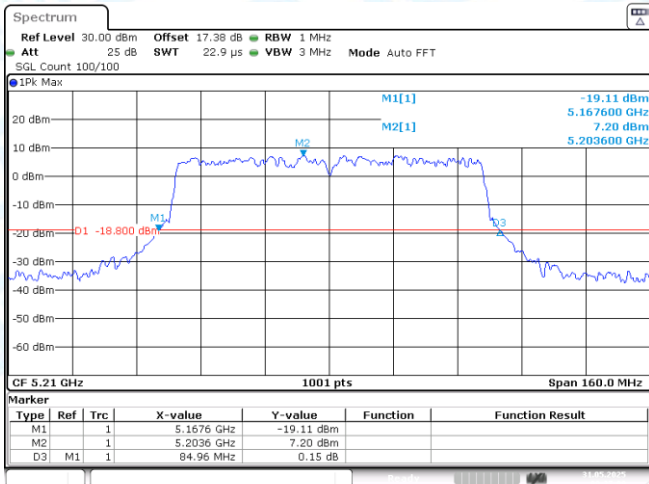
11AC40-CDD-Ant2-5550



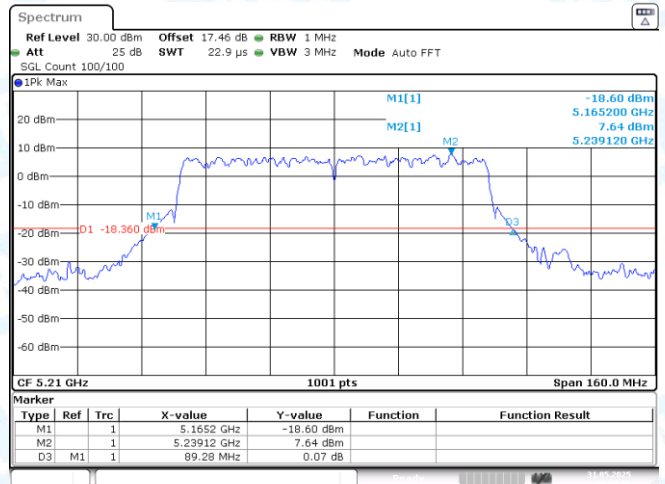
11AC40-CDD-Ant1-5710



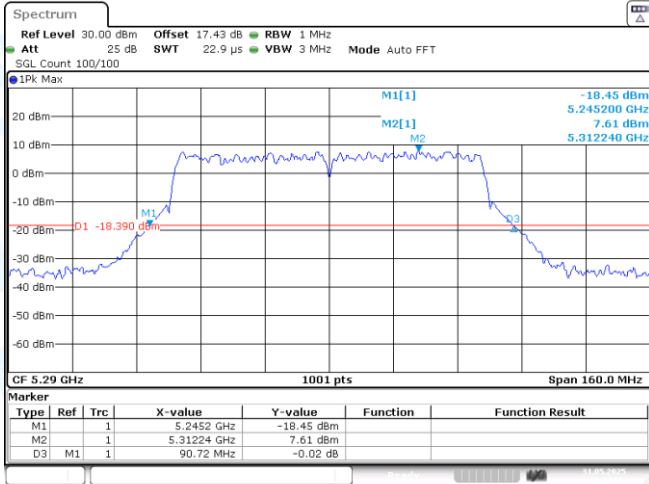
11AC40-CDD-Ant2-5710



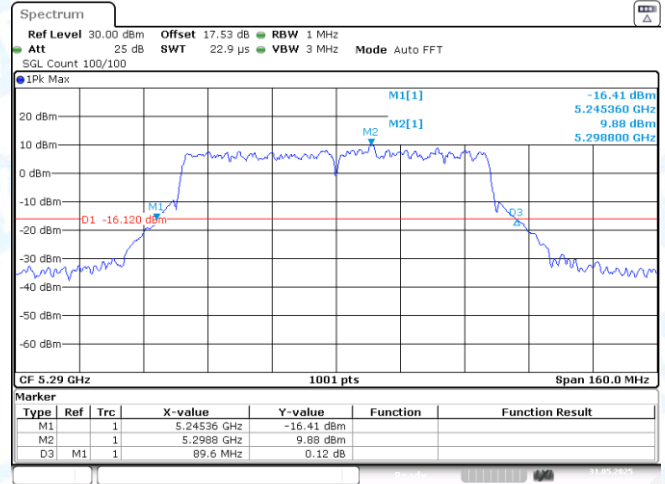
11AC80-CDD-Ant1-5210



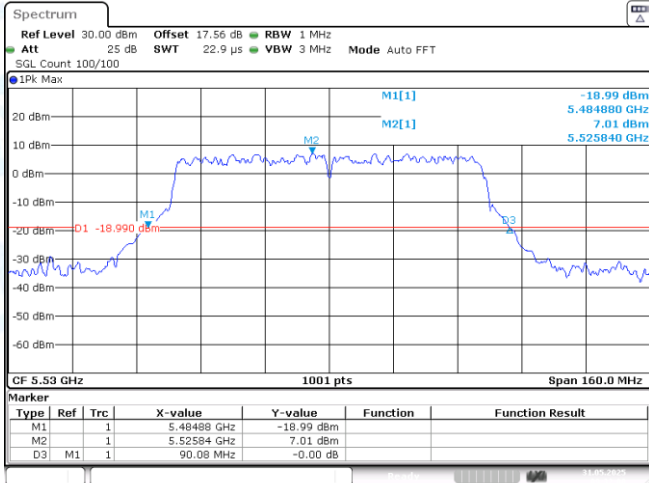
11AC80-CDD-Ant2-5210



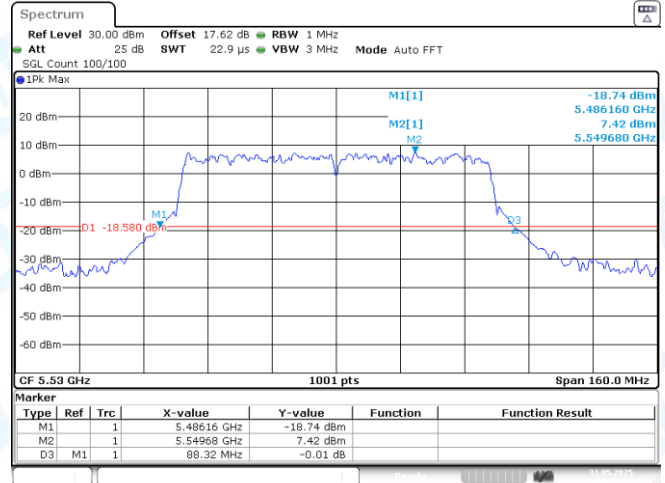
11AC80-CDD-Ant1-5290



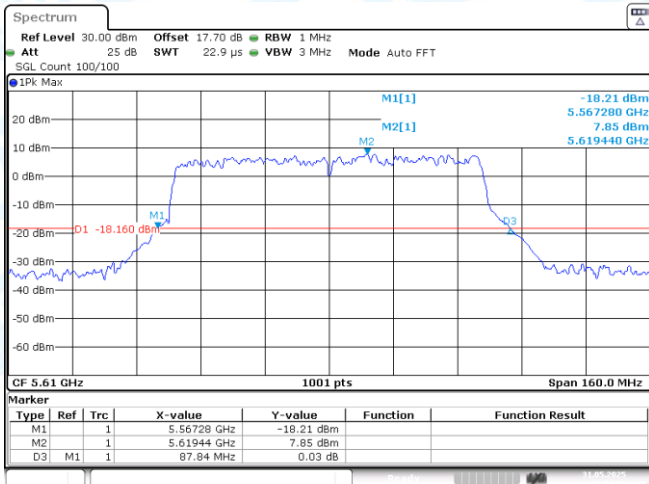
11AC80-CDD-Ant2-5290



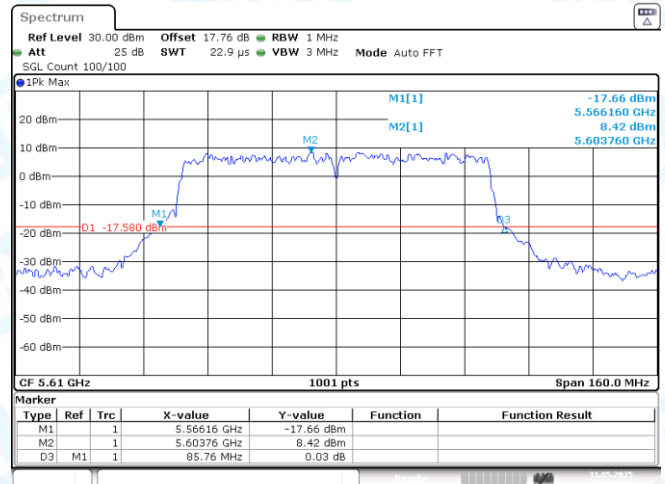
11AC80-CDD-Ant1-5530



11AC80-CDD-Ant2-5530



11AC80-CDD-Ant1-5610



11AC80-CDD-Ant2-5610