

Appendix for WLAN 2.4G

Model: LGE-NX9

BTL-FCCP-10-2203G019

Table of Contents	Page
1 . APPENDIX A: DTS BANDWIDTH	4
1.1 TEST RESULT	4
1.1.1 FULL RU FOR 11AX MODE	4
1.1.2 PARTIAL RU FOR 11AX MODE	7
1.2 TEST GRAPHS	8
1.2.1 FULL RU FOR 11AX MODE	8
1.2.2 PARTIAL RU FOR 11AX MODE	31
2 . APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	39
2.1 TEST RESULT	39
2.1.1 FULL RU FOR 11AX MODE	39
2.2 TEST GRAPHS	42
2.2.1 FULL RU FOR 11AX MODE	42
3 . APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER	65
3.1 TEST RESULT	65
3.1.1 FULL RU FOR 11AX MODE	65
3.1.2 PARTIAL RU FOR 11AX MODE	69
4 . APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY	71
4.1 TEST RESULT	71
4.1.1 FULL RU FOR 11AX MODE	71
4.1.2 PARTIAL RU FOR 11AX MODE	75
4.2 TEST GRAPHS	77
4.2.1 FULL RU FOR 11AX MODE	77
4.2.2 PARTIAL RU FOR 11AX MODE	100
5 . APPENDIX E: REFERENCE LEVEL MEASUREMENT	108
5.1 TEST RESULT	108
5.1.1 FULL RU FOR 11AX MODE	108
5.2 TEST GRAPHS	111
5.2.1 FULL RU FOR 11AX MODE	111
6 . APPENDIX F: BAND EDGE MEASUREMENTS	134
6.1 TEST RESULT	134
6.1.1 FULL RU FOR 11AX MODE	134
6.1.2 PARTIAL RU FOR 11AX MODE	137
6.2 TEST GRAPHS	138
6.2.1 FULL RU FOR 11AX MODE	138
6.2.2 PARTIAL RU FOR 11AX MODE	157
7 . APPENDIX G: CONDUCTED SPURIOUS EMISSION	163
7.1 TEST RESULT	163

Table of Contents	Page
7.1.1 FULL RU FOR 11AX MODE	163
7.1.2 PARTIAL RU FOR 11AX MODE	169
7.2 TEST GRAPHS	171
7.2.1 FULL RU FOR 11AX MODE	171
7.2.2 PARTIAL RU FOR 11AX MODE	217
8 . APPENDIX H: DUTY CYCLE	233
8.1 TEST RESULT	233
8.1.1 FULL RU FOR 11AX MODE	233
8.1.2 PARTIAL RU FOR 11AX MODE	236
8.2 TEST GRAPHS	237
8.2.1 FULL RU FOR 11AX MODE	237
8.2.2 PARTIAL RU FOR 11AX MODE	260

1. APPENDIX A: DTS BANDWIDTH

1.1 TEST RESULT

1.1.1 FULL RU FOR 11AX MODE

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.08	0.5	PASS
	Ant2	2412	7.56	0.5	PASS
	Ant1	2437	8.04	0.5	PASS
	Ant2	2437	8.08	0.5	PASS
	Ant1	2462	8.04	0.5	PASS
	Ant2	2462	8.04	0.5	PASS
11G	Ant1	2412	16.32	0.5	PASS
	Ant2	2412	16.04	0.5	PASS
	Ant1	2417	16.32	0.5	PASS
	Ant2	2417	16.32	0.5	PASS
	Ant1	2422	16.32	0.5	PASS
	Ant2	2422	16.28	0.5	PASS
	Ant1	2437	16.28	0.5	PASS
	Ant2	2437	16.28	0.5	PASS
	Ant1	2452	16.28	0.5	PASS
	Ant2	2452	16.28	0.5	PASS
	Ant1	2457	16.28	0.5	PASS
	Ant2	2457	16.04	0.5	PASS
	Ant1	2462	16.28	0.5	PASS
	Ant2	2462	16.28	0.5	PASS
11N20SISO	Ant1	2412	17.32	0.5	PASS
	Ant2	2412	17.20	0.5	PASS
	Ant1	2417	17.32	0.5	PASS
	Ant2	2417	17.56	0.5	PASS
	Ant1	2422	17.56	0.5	PASS
	Ant2	2422	17.56	0.5	PASS
	Ant1	2437	17.08	0.5	PASS
	Ant2	2437	17.08	0.5	PASS
	Ant1	2452	17.08	0.5	PASS
	Ant2	2452	17.28	0.5	PASS
	Ant1	2457	17.56	0.5	PASS
	Ant2	2457	17.20	0.5	PASS
	Ant1	2462	17.56	0.5	PASS
	Ant2	2462	17.56	0.5	PASS
11N40SISO	Ant1	2422	36.32	0.5	PASS
	Ant2	2422	35.76	0.5	PASS
	Ant1	2427	35.76	0.5	PASS
	Ant2	2427	36.32	0.5	PASS
	Ant1	2437	35.68	0.5	PASS
	Ant2	2437	36.00	0.5	PASS
	Ant1	2447	35.28	0.5	PASS
	Ant2	2447	36.32	0.5	PASS
	Ant1	2452	35.36	0.5	PASS
	Ant2	2452	35.68	0.5	PASS

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
11AX20SISO	Ant1	2412	18.68	0.5	PASS
	Ant2	2412	18.28	0.5	PASS
	Ant1	2417	18.76	0.5	PASS
	Ant2	2417	18.72	0.5	PASS
	Ant1	2422	18.88	0.5	PASS
	Ant2	2422	18.36	0.5	PASS
	Ant1	2437	18.48	0.5	PASS
	Ant2	2437	18.68	0.5	PASS
	Ant1	2452	18.64	0.5	PASS
	Ant2	2452	18.04	0.5	PASS
	Ant1	2457	18.76	0.5	PASS
	Ant2	2457	18.40	0.5	PASS
	Ant1	2462	18.68	0.5	PASS
	Ant2	2462	18.60	0.5	PASS
11AX40SISO	Ant1	2422	37.60	0.5	PASS
	Ant2	2422	37.52	0.5	PASS
	Ant1	2427	37.04	0.5	PASS
	Ant2	2427	37.36	0.5	PASS
	Ant1	2437	37.68	0.5	PASS
	Ant2	2437	36.56	0.5	PASS
	Ant1	2447	37.60	0.5	PASS
	Ant2	2447	37.36	0.5	PASS
	Ant1	2452	36.88	0.5	PASS
	Ant2	2452	35.92	0.5	PASS
11B-CDD	Ant1	2412	7.56	0.5	PASS
	Ant2	2412	8.08	0.5	PASS
	Ant1	2437	8.00	0.5	PASS
	Ant2	2437	8.04	0.5	PASS
	Ant1	2462	8.08	0.5	PASS
	Ant2	2462	8.08	0.5	PASS
11G-CDD	Ant1	2412	16.32	0.5	PASS
	Ant2	2412	16.32	0.5	PASS
	Ant1	2417	16.04	0.5	PASS
	Ant2	2417	16.08	0.5	PASS
	Ant1	2422	16.04	0.5	PASS
	Ant2	2422	16.28	0.5	PASS
	Ant1	2437	16.28	0.5	PASS
	Ant2	2437	16.32	0.5	PASS
	Ant1	2452	16.28	0.5	PASS
	Ant2	2452	16.32	0.5	PASS
	Ant1	2457	16.28	0.5	PASS
	Ant2	2457	16.36	0.5	PASS
	Ant1	2462	16.28	0.5	PASS
	Ant2	2462	16.32	0.5	PASS

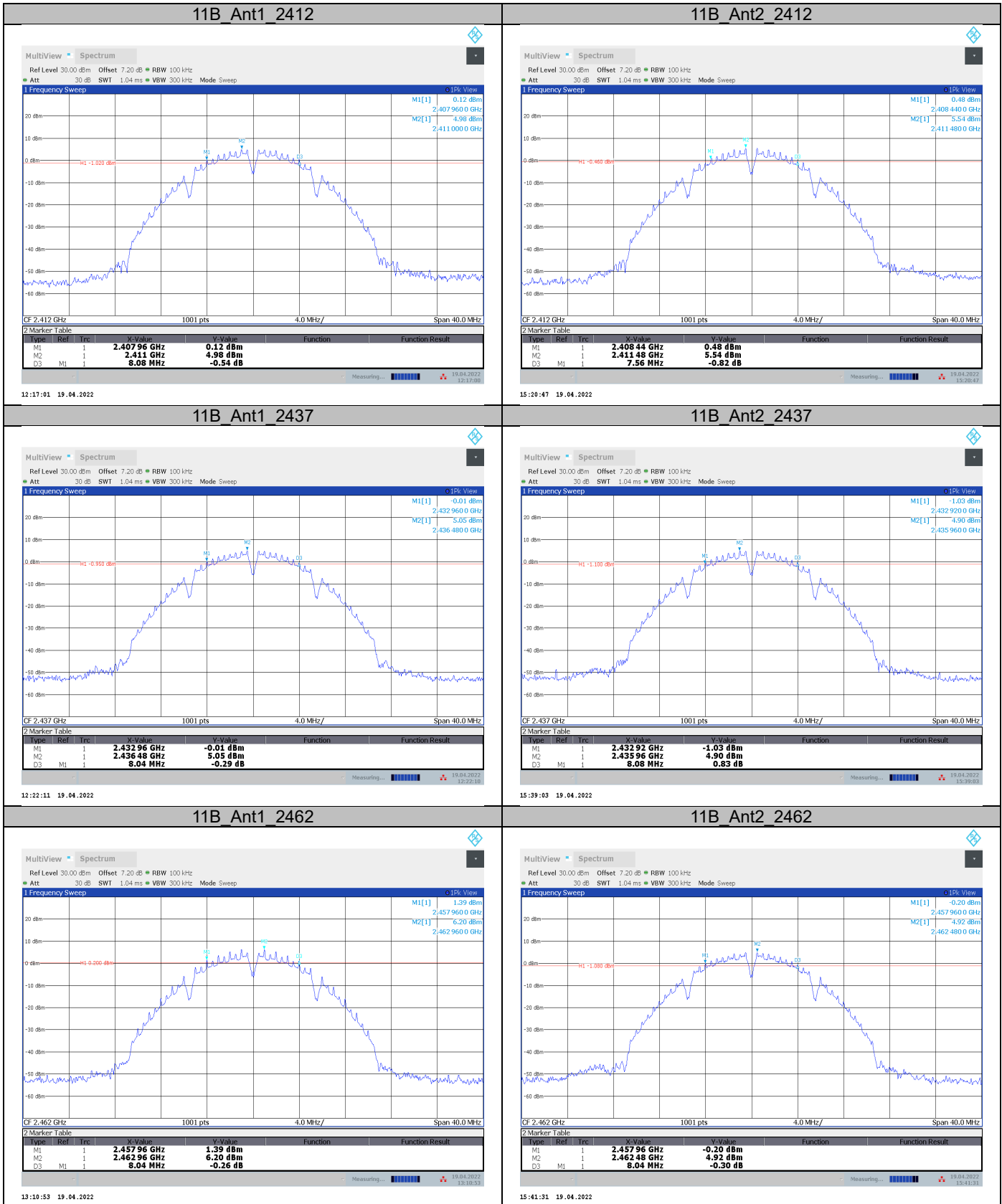
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
11N20MIMO	Ant1	2412	16.20	0.5	PASS
	Ant2	2412	15.32	0.5	PASS
	Ant1	2417	15.64	0.5	PASS
	Ant2	2417	17.24	0.5	PASS
	Ant1	2422	15.60	0.5	PASS
	Ant2	2422	15.36	0.5	PASS
	Ant1	2437	16.56	0.5	PASS
	Ant2	2437	16.56	0.5	PASS
	Ant1	2452	16.60	0.5	PASS
	Ant2	2452	16.60	0.5	PASS
	Ant1	2457	16.04	0.5	PASS
	Ant2	2457	16.04	0.5	PASS
	Ant1	2462	15.64	0.5	PASS
	Ant2	2462	16.60	0.5	PASS
11N40MIMO	Ant1	2422	35.28	0.5	PASS
	Ant2	2422	35.60	0.5	PASS
	Ant1	2427	35.20	0.5	PASS
	Ant2	2427	35.20	0.5	PASS
	Ant1	2437	35.20	0.5	PASS
	Ant2	2437	35.28	0.5	PASS
	Ant1	2447	35.76	0.5	PASS
	Ant2	2447	35.68	0.5	PASS
	Ant1	2452	35.28	0.5	PASS
	Ant2	2452	35.20	0.5	PASS
11AX20MIMO	Ant1	2412	18.72	0.5	PASS
	Ant2	2412	18.76	0.5	PASS
	Ant1	2417	18.92	0.5	PASS
	Ant2	2417	18.84	0.5	PASS
	Ant1	2422	18.80	0.5	PASS
	Ant2	2422	18.88	0.5	PASS
	Ant1	2437	18.76	0.5	PASS
	Ant2	2437	18.96	0.5	PASS
	Ant1	2452	18.88	0.5	PASS
	Ant2	2452	18.76	0.5	PASS
	Ant1	2457	18.84	0.5	PASS
	Ant2	2457	18.84	0.5	PASS
	Ant1	2462	18.88	0.5	PASS
	Ant2	2462	18.88	0.5	PASS
11AX40MIMO	Ant1	2422	37.12	0.5	PASS
	Ant2	2422	37.68	0.5	PASS
	Ant1	2427	37.36	0.5	PASS
	Ant2	2427	37.36	0.5	PASS
	Ant1	2437	37.52	0.5	PASS
	Ant2	2437	37.44	0.5	PASS
	Ant1	2447	37.92	0.5	PASS
	Ant2	2447	37.44	0.5	PASS
	Ant1	2452	37.92	0.5	PASS
	Ant2	2452	37.36	0.5	PASS

1.1.2 PARTIAL RU FOR 11AX MODE

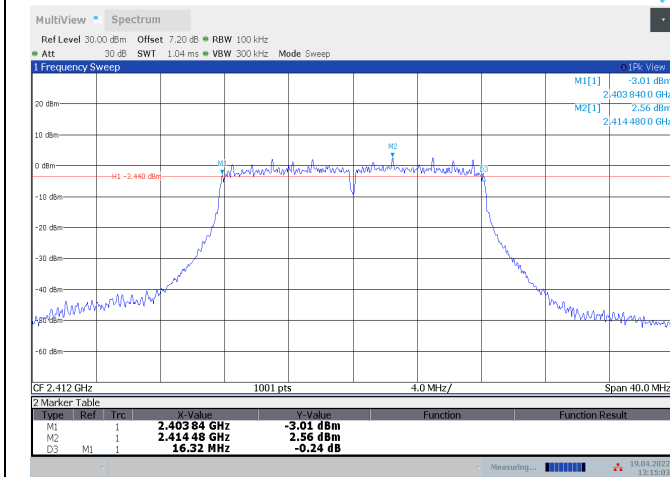
Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	DTS BW [MHz]	Limit [MHz]	Verdict
11AX20SISO	Ant1	2412	26Tone	RU0	2.04	0.5	PASS
			52Tone	RU37	14.60	0.5	PASS
			106Tone	RU53	15.88	0.5	PASS
	Ant2	2412	26Tone	RU0	2.08	0.5	PASS
			52Tone	RU37	17.00	0.5	PASS
			106Tone	RU53	18.12	0.5	PASS
	Ant1	2437	26Tone	RU0	2.04	0.5	PASS
			52Tone	RU37	17.00	0.5	PASS
			106Tone	RU53	17.16	0.5	PASS
	Ant2	2437	26Tone	RU0	2.04	0.5	PASS
			52Tone	RU37	15.76	0.5	PASS
			106Tone	RU53	14.56	0.5	PASS
	Ant1	2462	26Tone	RU0	2.04	0.5	PASS
			52Tone	RU37	10.80	0.5	PASS
			106Tone	RU53	17.12	0.5	PASS
	Ant2	2462	26Tone	RU0	15.76	0.5	PASS
			52Tone	RU37	15.76	0.5	PASS
			106Tone	RU53	15.92	0.5	PASS
11AX40SISO	Ant1	2422	242Tone	RU61	36.96	0.5	PASS
	Ant2	2422	242Tone	RU61	36.64	0.5	PASS
	Ant1	2437	242Tone	RU61	36.64	0.5	PASS
	Ant2	2437	242Tone	RU61	36.72	0.5	PASS
	Ant1	2452	242Tone	RU61	36.88	0.5	PASS
	Ant2	2452	242Tone	RU61	36.88	0.5	PASS
11AX20MIMO	Ant1	2412	26Tone	RU0	17.04	0.5	PASS
			52Tone	RU37	17.00	0.5	PASS
			106Tone	RU53	18.04	0.5	PASS
	Ant2	2412	26Tone	RU0	14.52	0.5	PASS
			52Tone	RU37	15.72	0.5	PASS
			106Tone	RU53	17.04	0.5	PASS
	Ant1	2437	26Tone	RU0	2.04	0.5	PASS
			52Tone	RU37	12.08	0.5	PASS
			106Tone	RU53	15.92	0.5	PASS
	Ant2	2437	26Tone	RU0	2.04	0.5	PASS
			52Tone	RU37	15.80	0.5	PASS
			106Tone	RU53	17.08	0.5	PASS
	Ant1	2462	26Tone	RU0	2.08	0.5	PASS
			52Tone	RU37	17.04	0.5	PASS
			106Tone	RU53	17.12	0.5	PASS
	Ant2	2462	26Tone	RU0	2.04	0.5	PASS
			52Tone	RU37	17.00	0.5	PASS
			106Tone	RU53	15.84	0.5	PASS
11AX40MIMO	Ant1	2422	242Tone	RU61	34.40	0.5	PASS
	Ant2	2422	242Tone	RU61	37.60	0.5	PASS
	Ant1	2437	242Tone	RU61	35.44	0.5	PASS
	Ant2	2437	242Tone	RU61	35.44	0.5	PASS
	Ant1	2452	242Tone	RU61	35.36	0.5	PASS
	Ant2	2452	242Tone	RU61	36.64	0.5	PASS

1.2 TEST GRAPHS

1.2.1 FULL RU FOR 11AX MODE

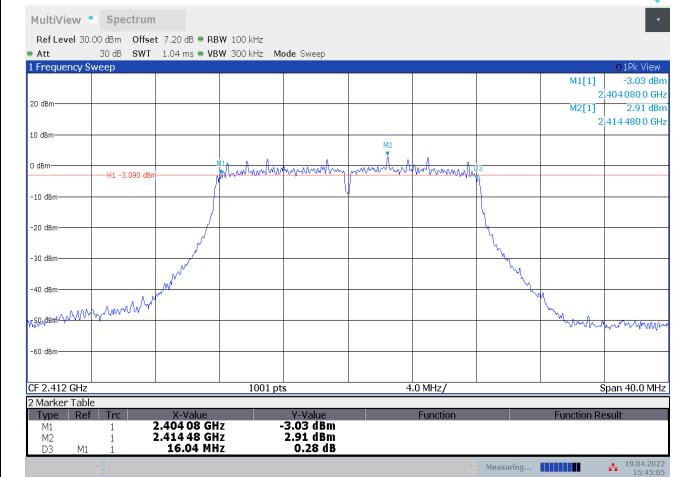


11G_Ant1_2412



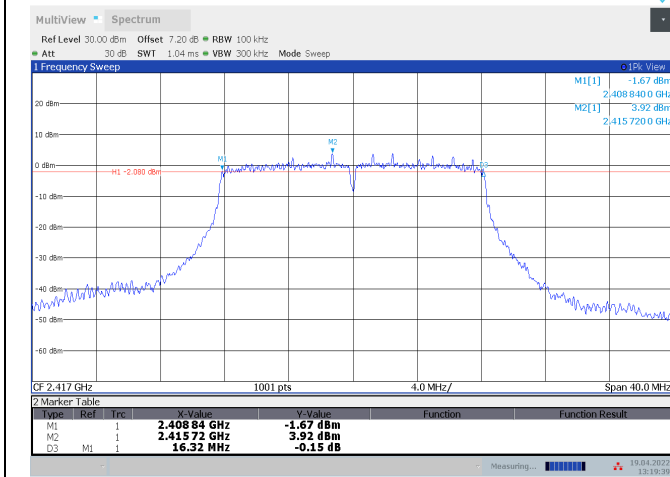
13:15:04 19.04.2022

11G_Ant2_2412



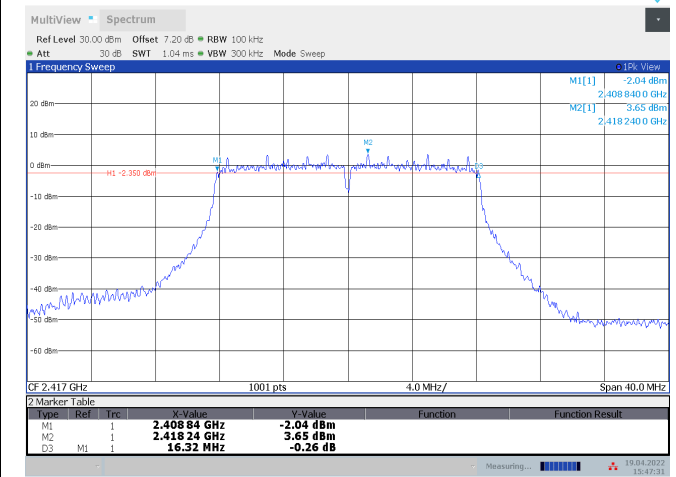
15:45:06 19.04.2022

11G_Ant1_2417



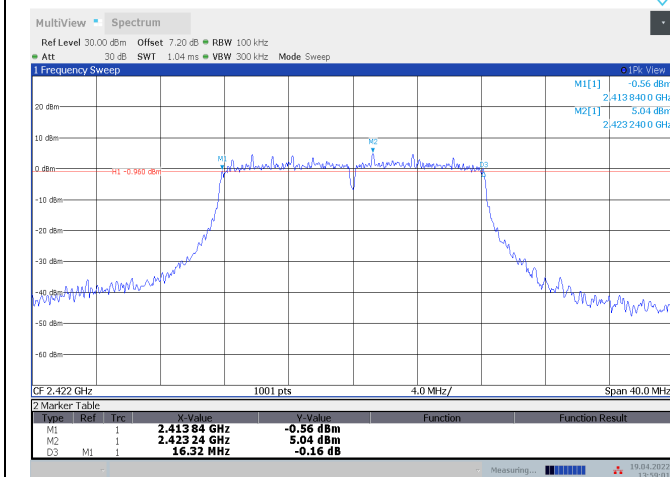
13:19:40 19.04.2022

11G_Ant2_2417



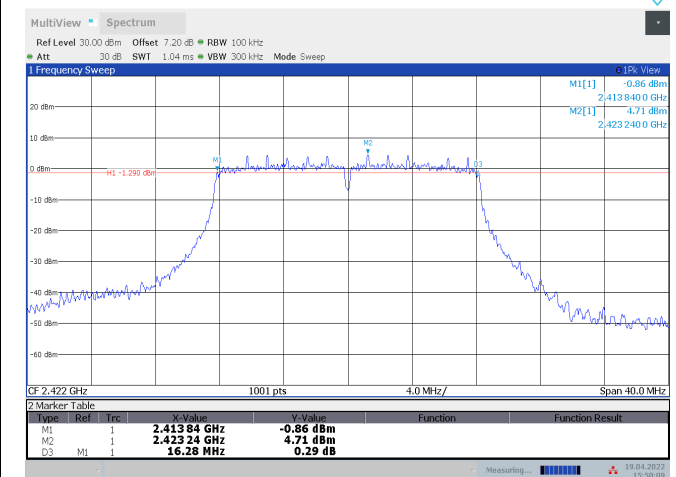
15:47:31 19.04.2022

11G_Ant1_2422



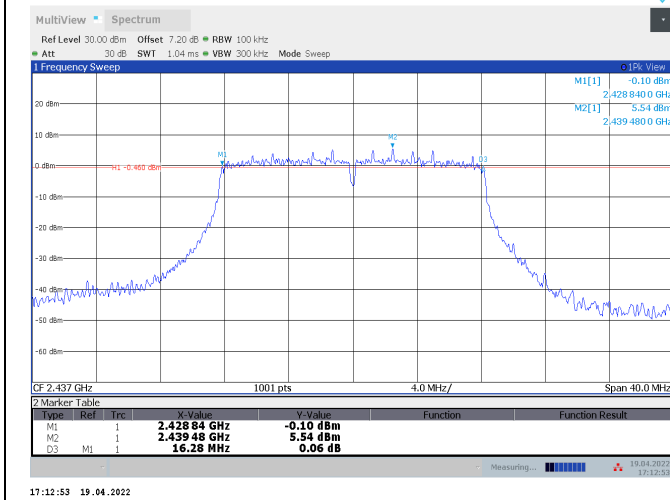
13:59:02 19.04.2022

11G_Ant2_2422

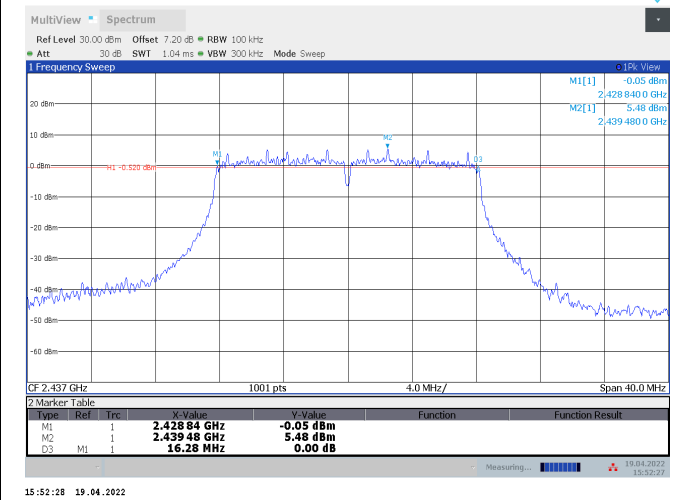


15:50:09 19.04.2022

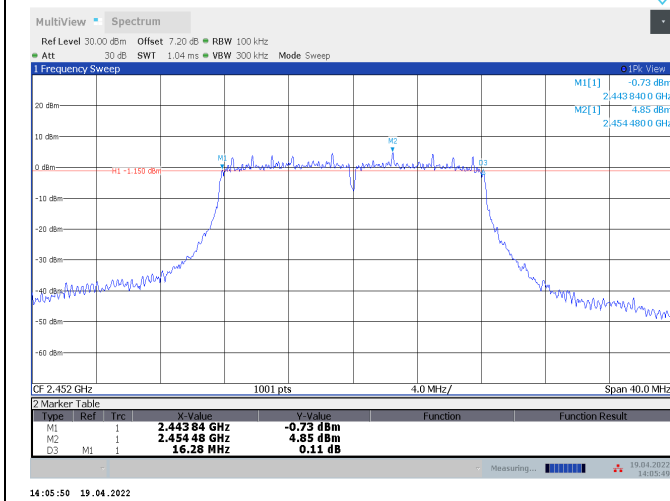
11G_Ant1_2437



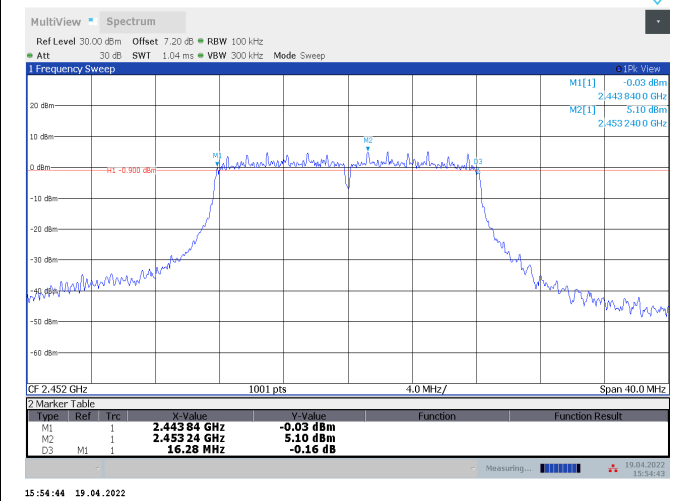
11G_Ant2_2437



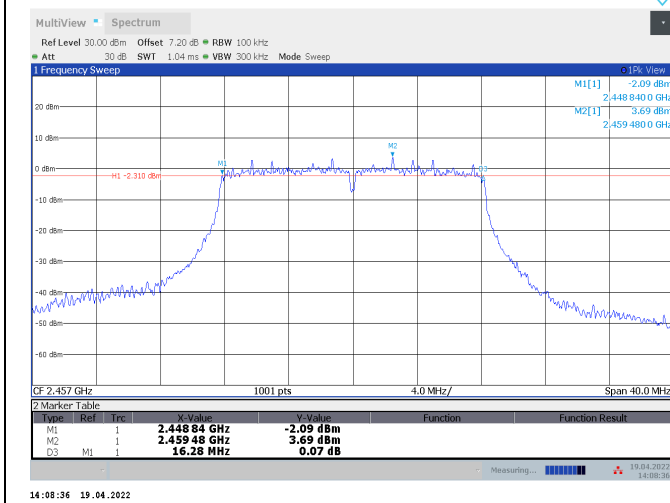
11G_Ant1_2452



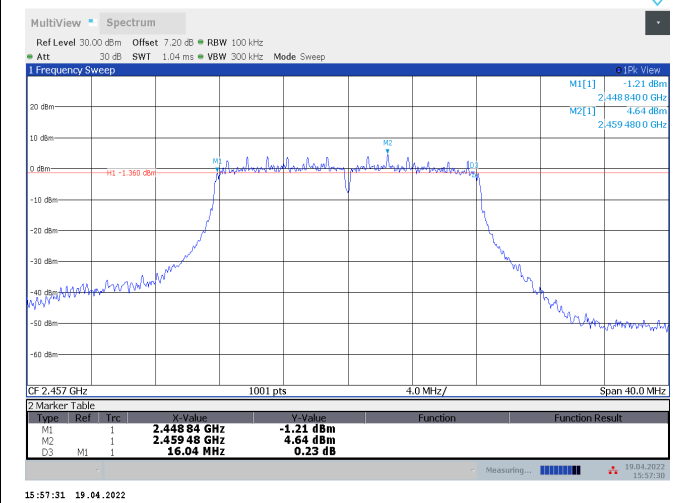
11G_Ant2_2452



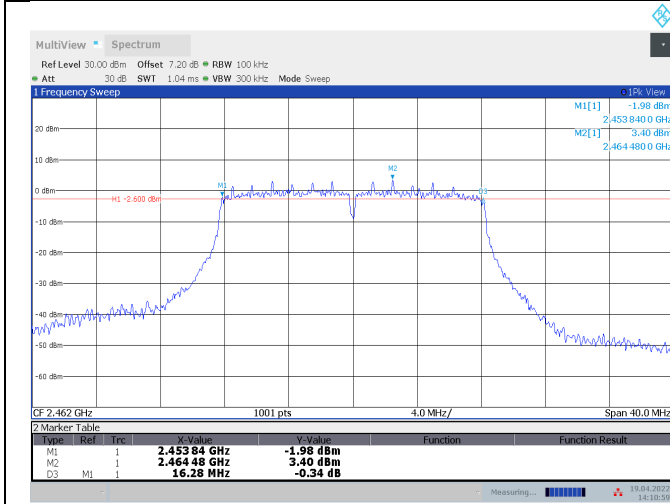
11G_Ant1_2457



11G_Ant2_2457

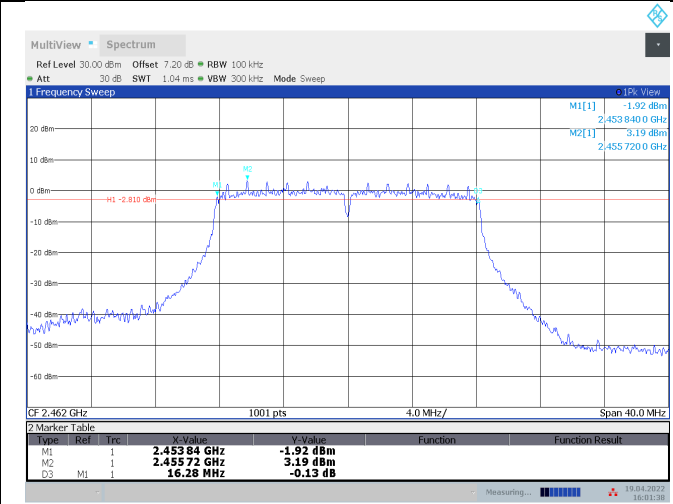


11G_Ant1_2462



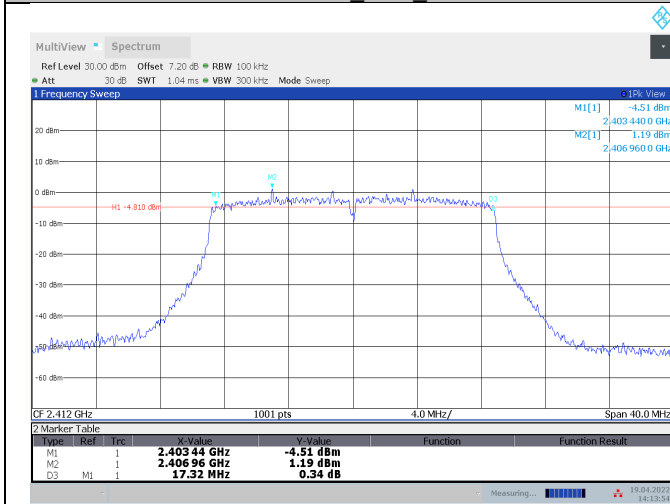
14:11:00 19.04.2022

11G_Ant2_2462



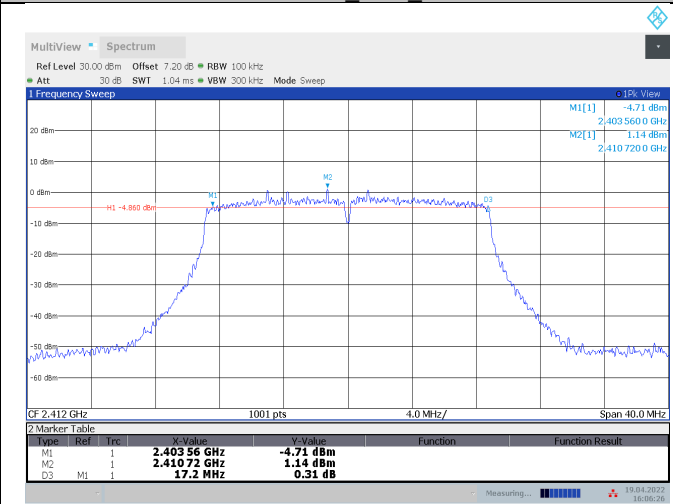
16:01:39 19.04.2022

11N20SISO_Ant1_2412



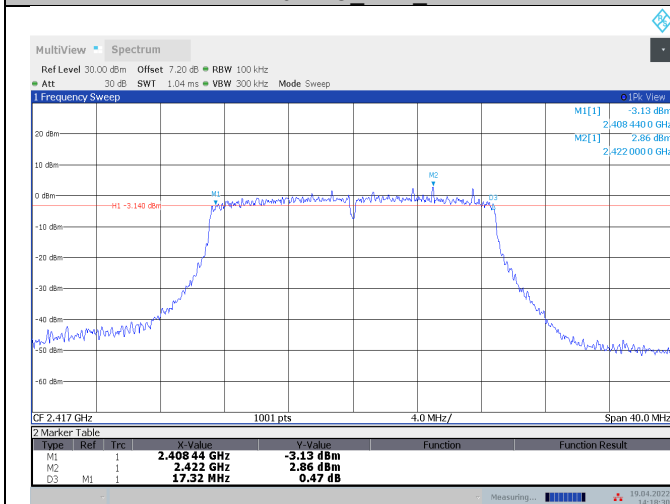
14:13:55 19.04.2022

11N20SISO_Ant2_2412



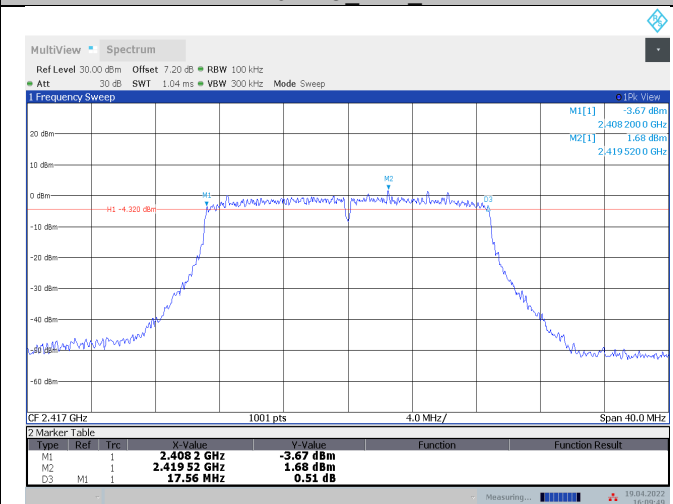
16:06:26 19.04.2022

11N20SISO_Ant1_2417



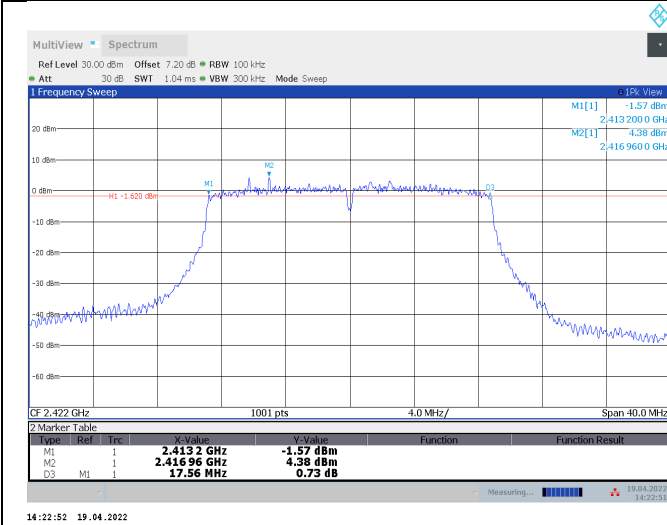
14:18:31 19.04.2022

11N20SISO_Ant2_2417

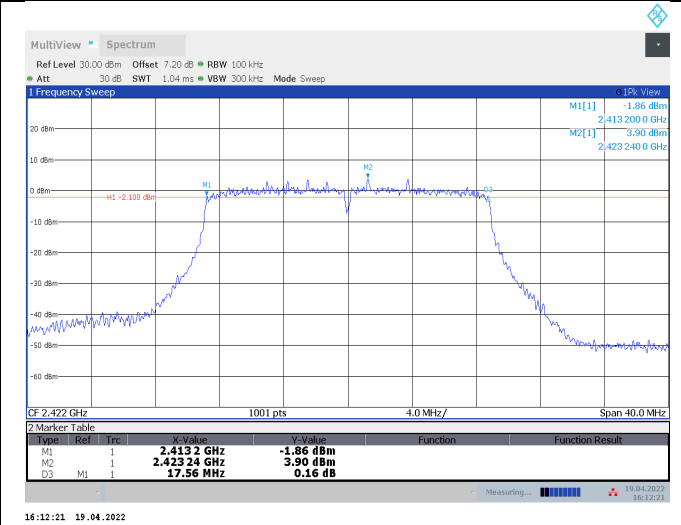


16:09:49 19.04.2022

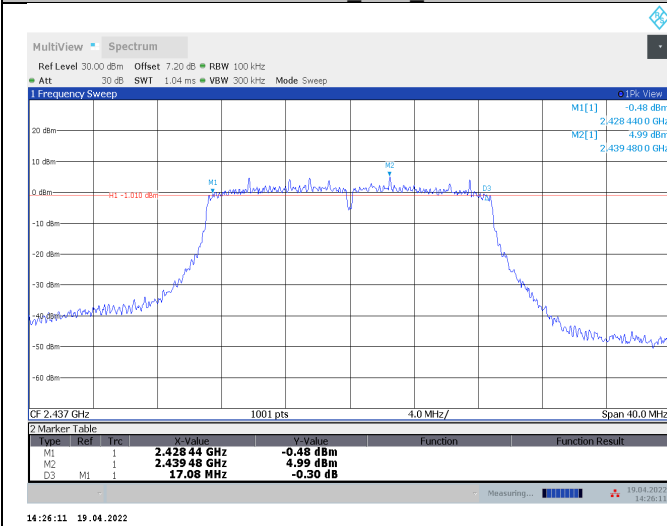
11N20SISO_Ant1_2422



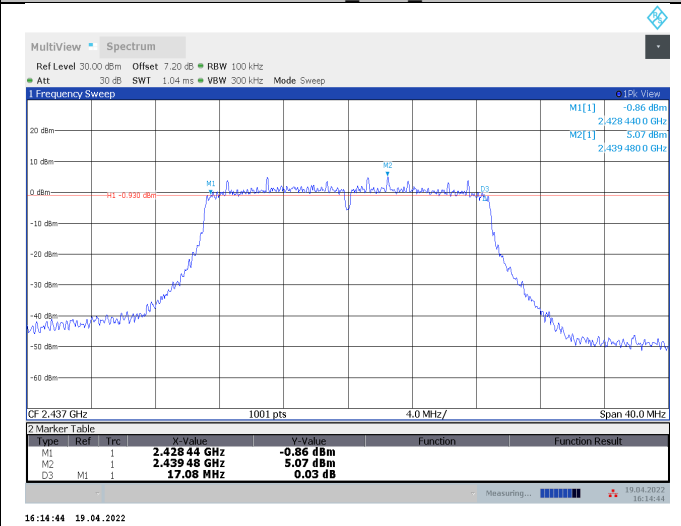
11N20SISO_Ant2_2422



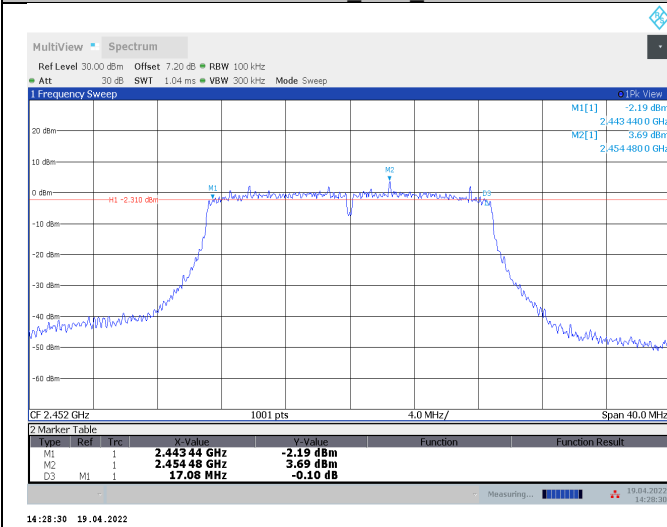
11N20SISO_Ant1_2437



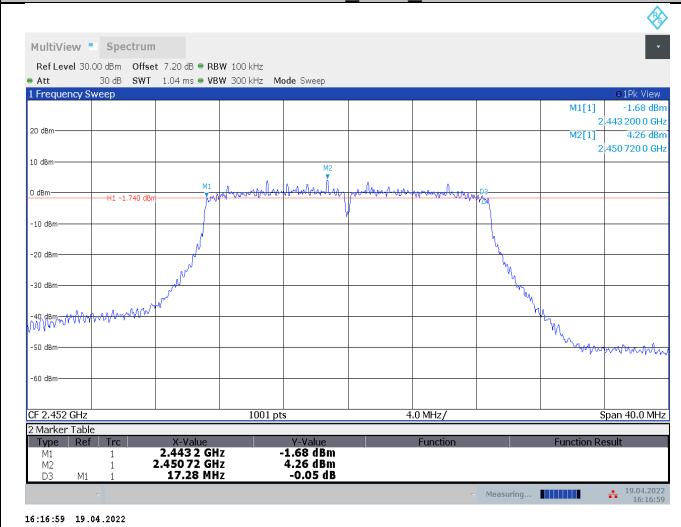
11N20SISO_Ant2_2437



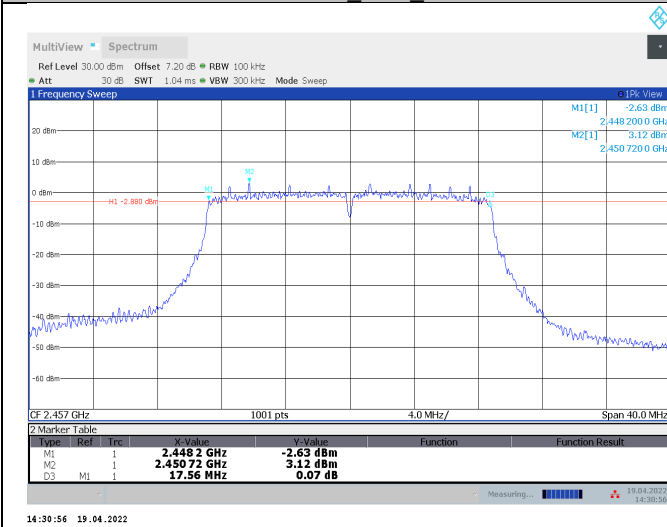
11N20SISO_Ant1_2452



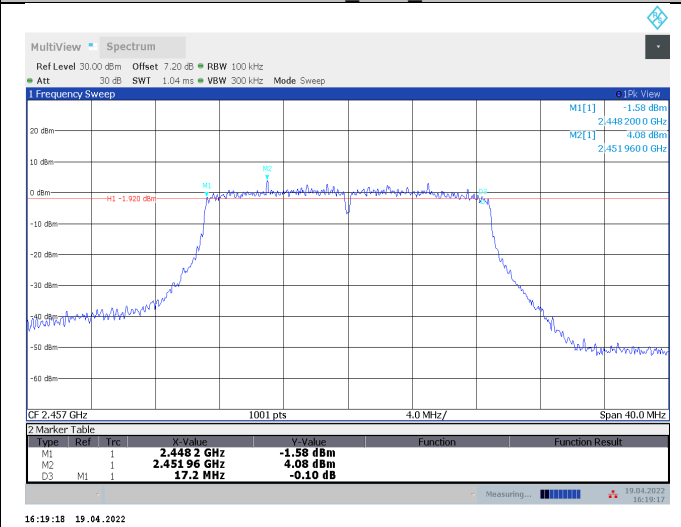
11N20SISO_Ant2_2452



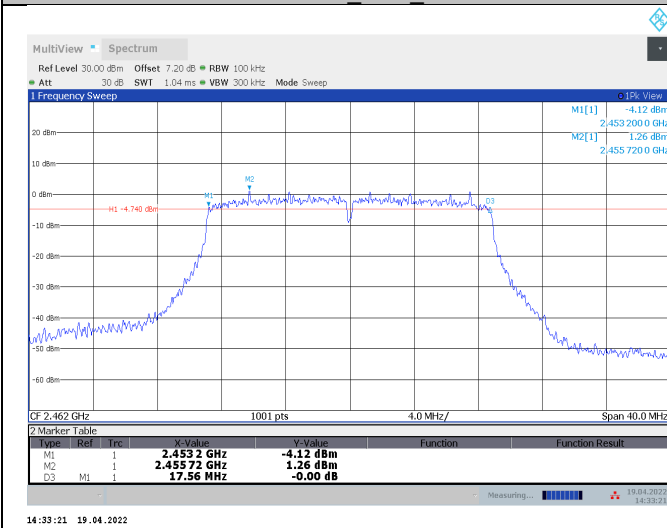
11N20SISO_Ant1_2457



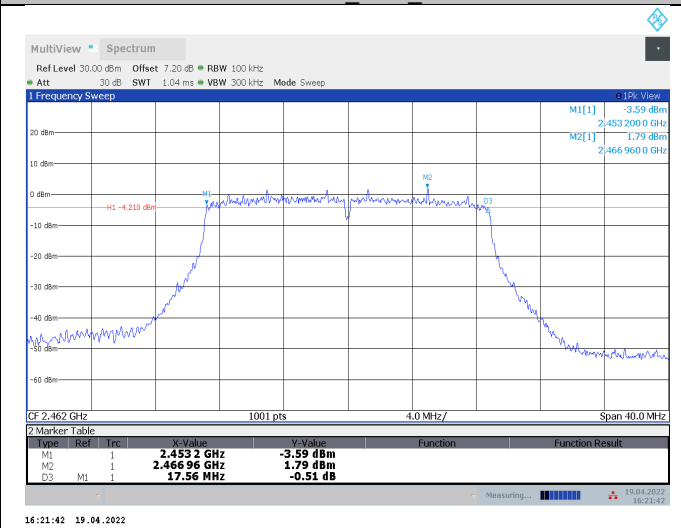
11N20SISO_Ant2_2457



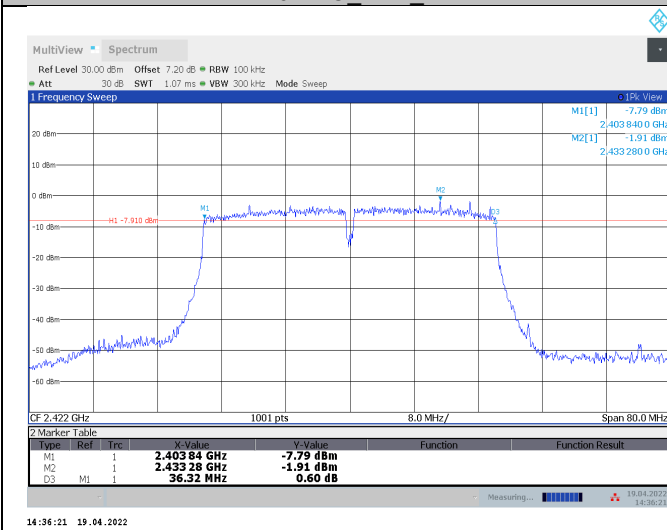
11N20SISO_Ant1_2462



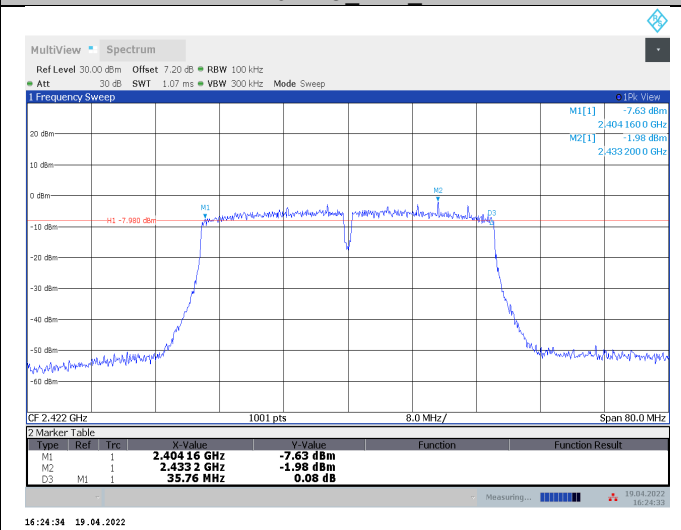
11N20SISO_Ant2_2462



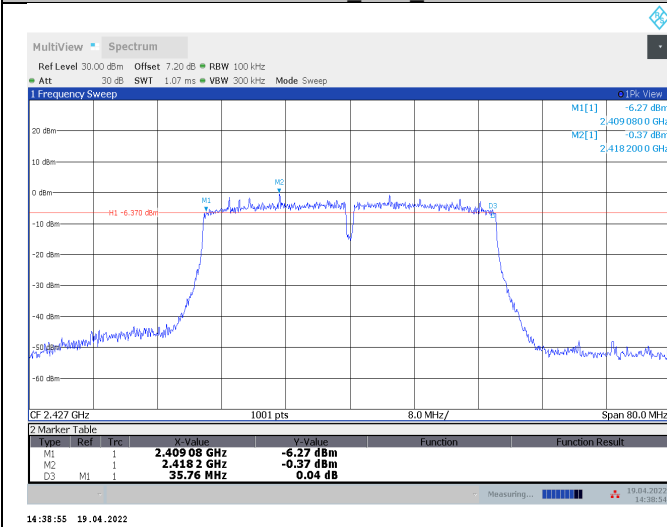
11N40SISO_Ant1_2422



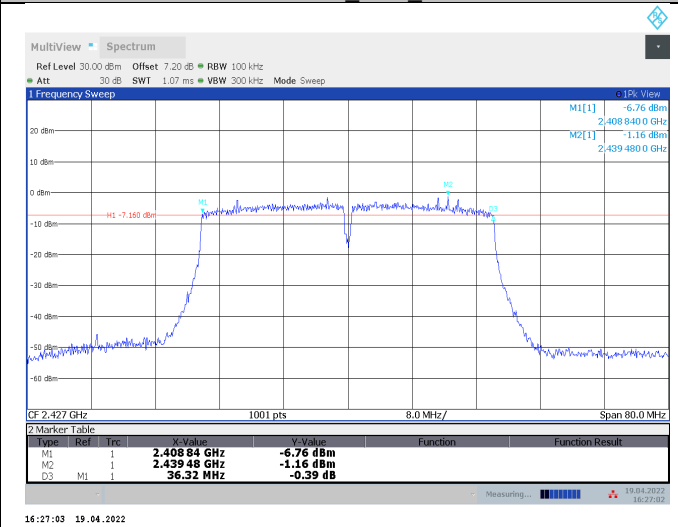
11N40SISO_Ant2_2422



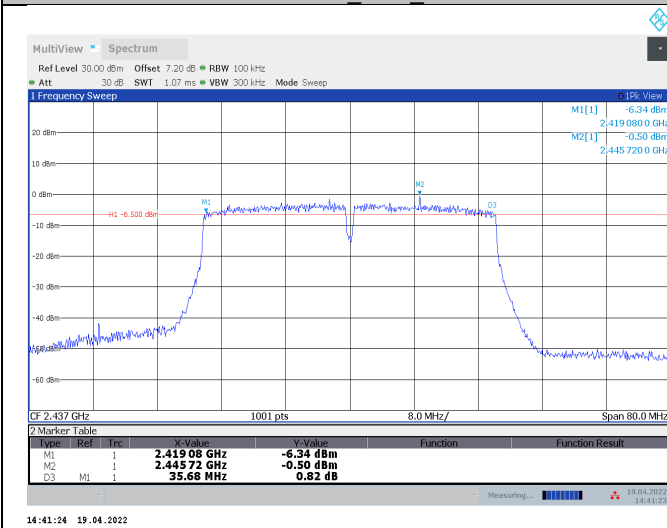
11N40SISO_Ant1_2427



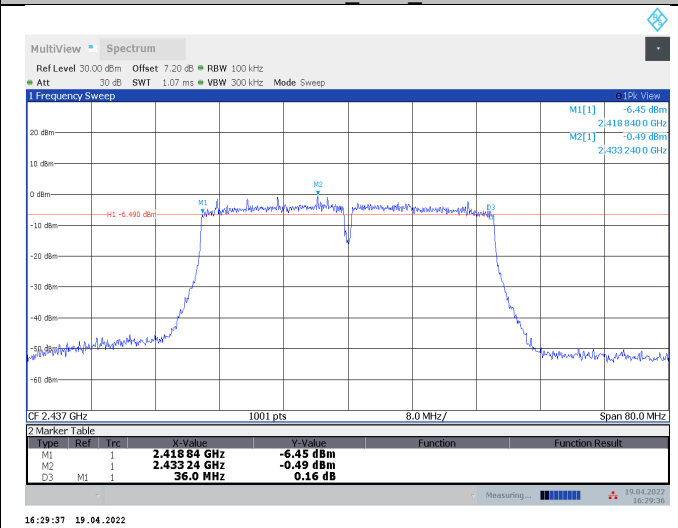
11N40SISO_Ant2_2427



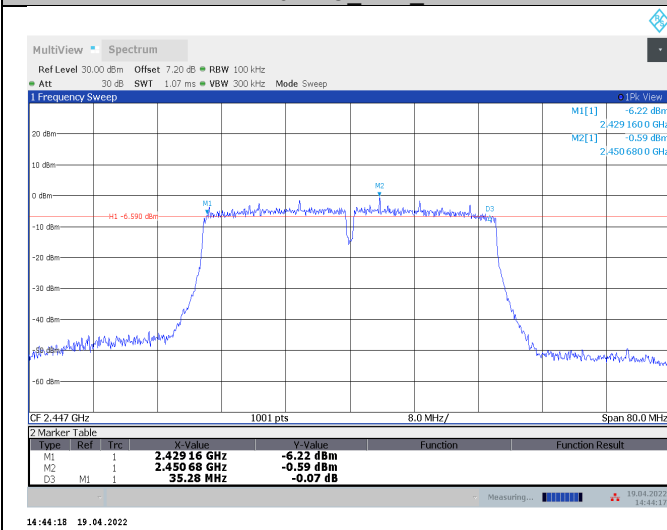
11N40SISO_Ant1_2437



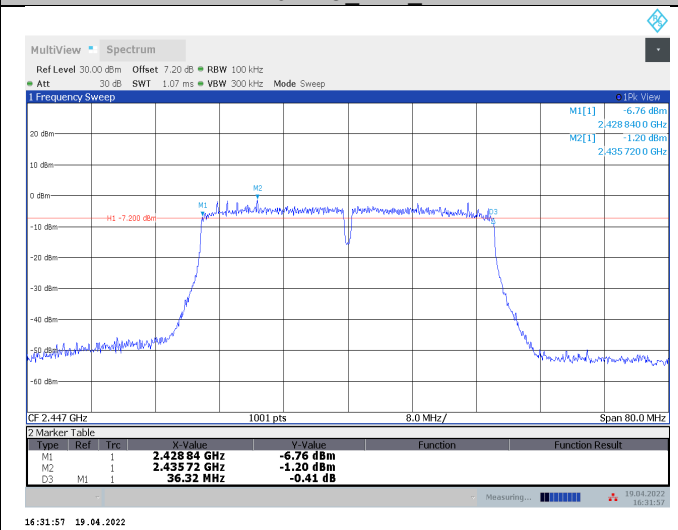
11N40SISO_Ant2_2437

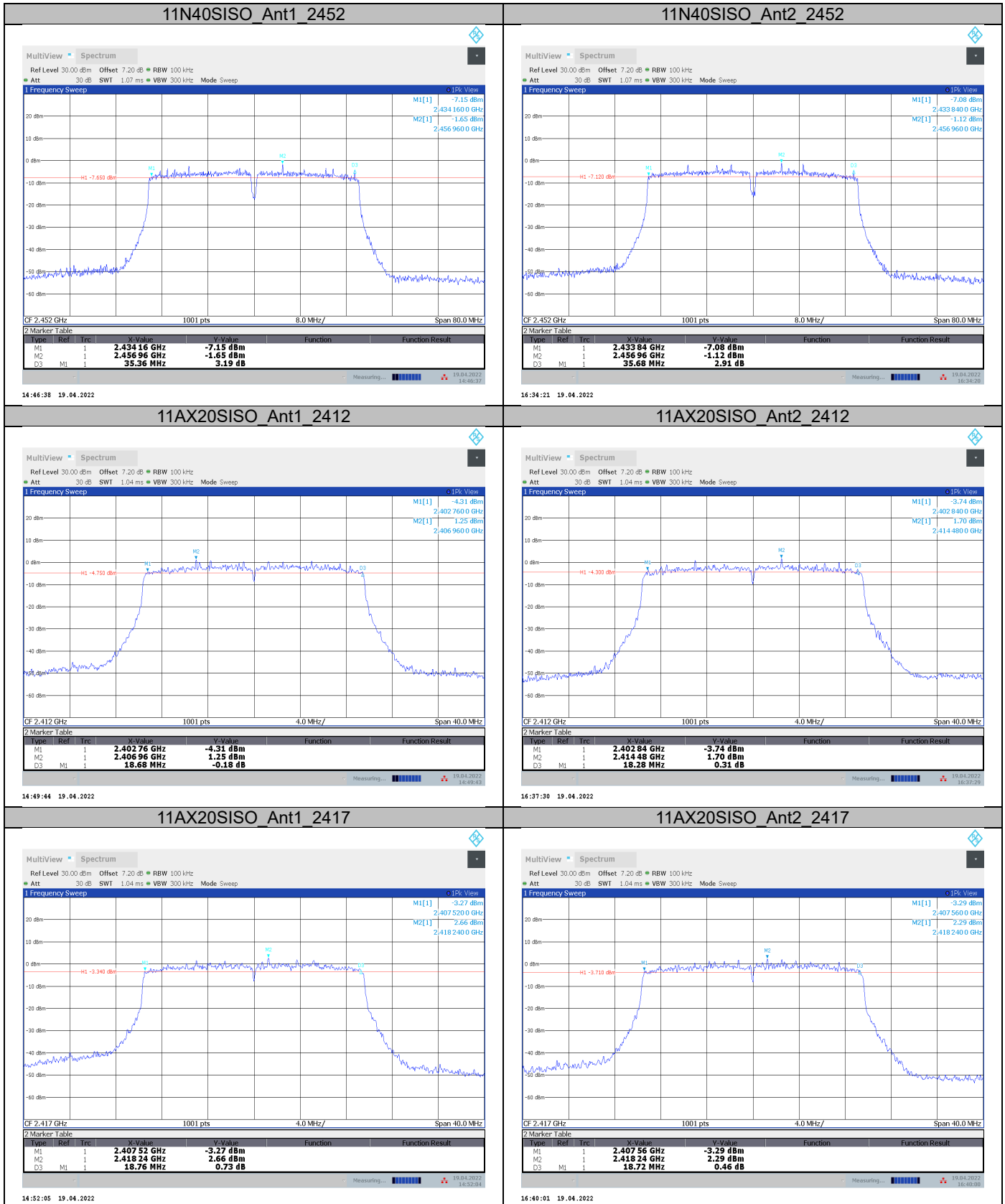


11N40SISO_Ant1_2447



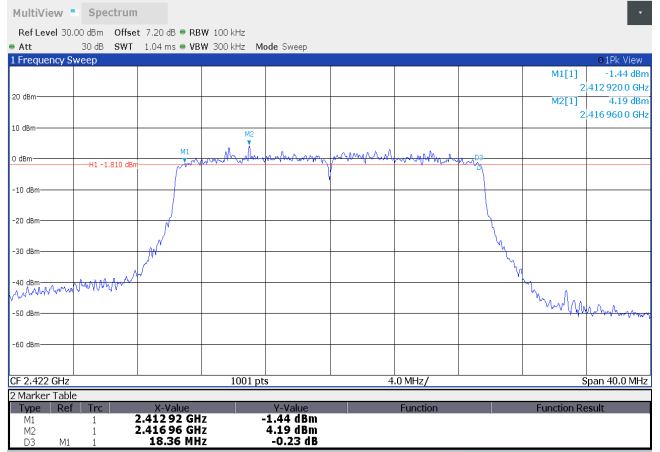
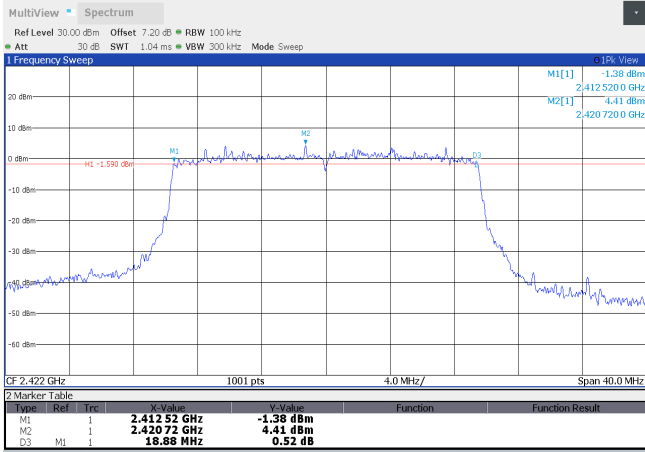
11N40SISO_Ant2_2447





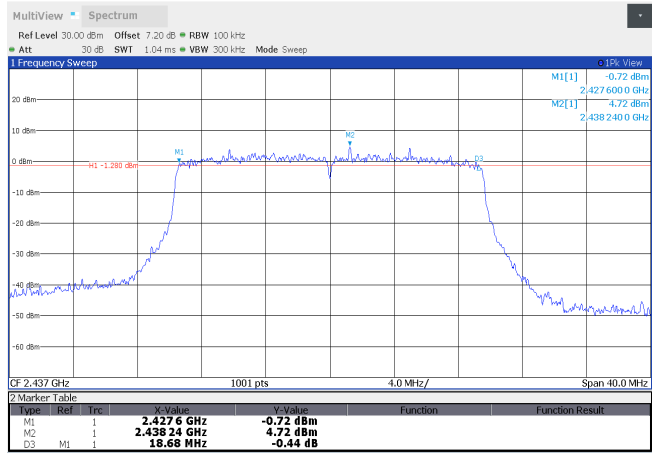
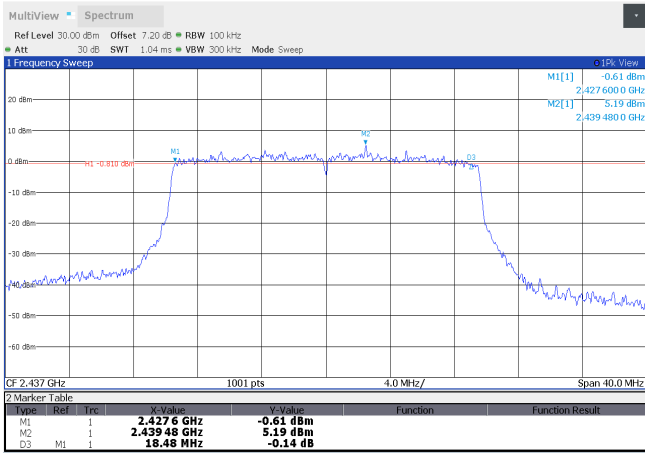
11AX20SISO_Ant1_2422

11AX20SISO_Ant2_2422



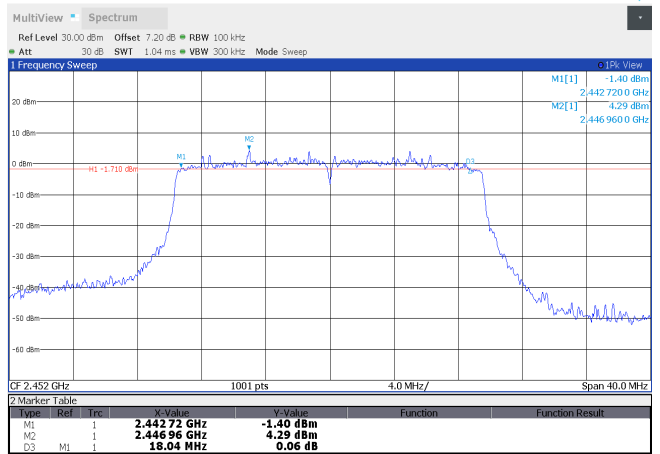
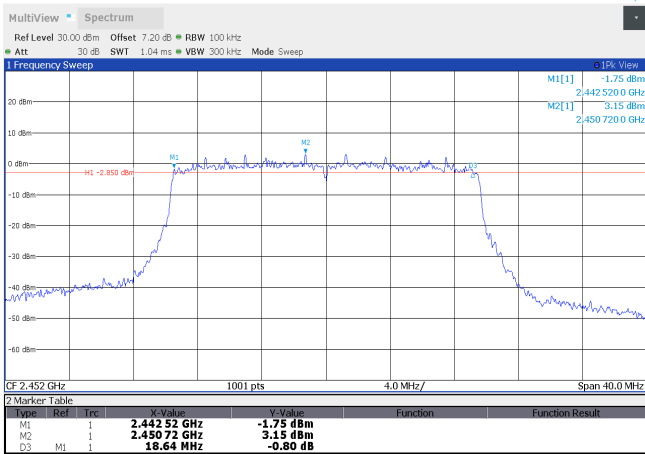
11AX20SISO_Ant1_2437

11AX20SISO_Ant2_2437



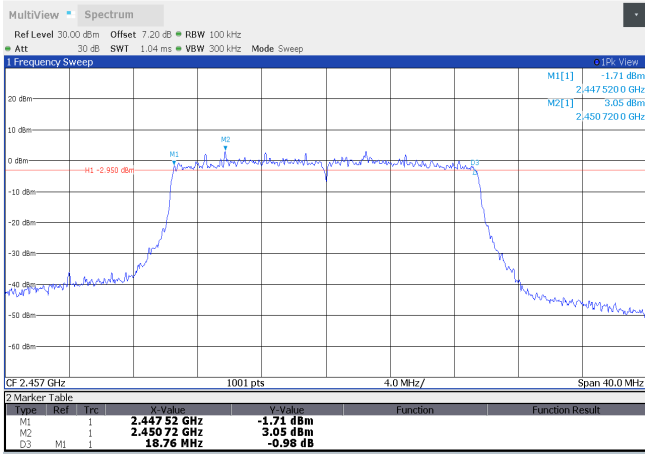
11AX20SISO_Ant1_2452

11AX20SISO_Ant2_2452

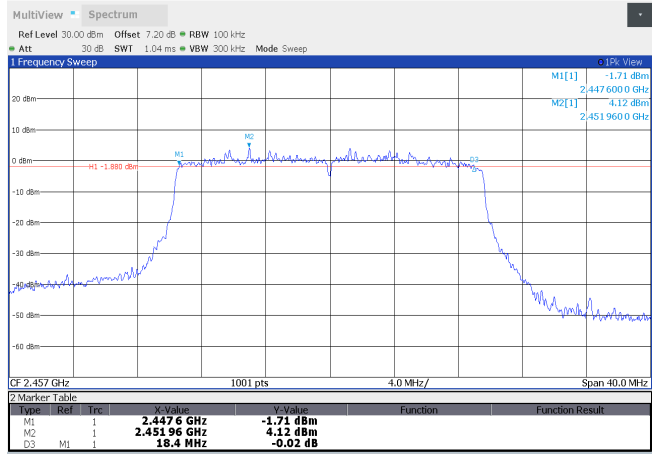


11AX20SISO_Ant1_2457

11AX20SISO_Ant2_2457



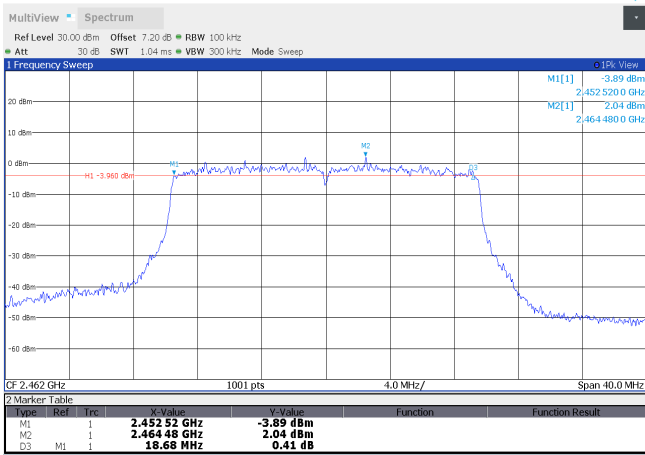
15:01:38 19.04.2022



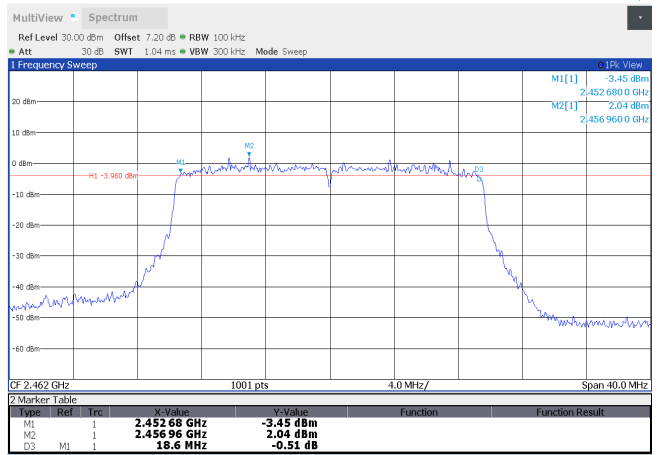
16:51:11 19.04.2022

11AX20SISO_Ant1_2462

11AX20SISO_Ant2_2462



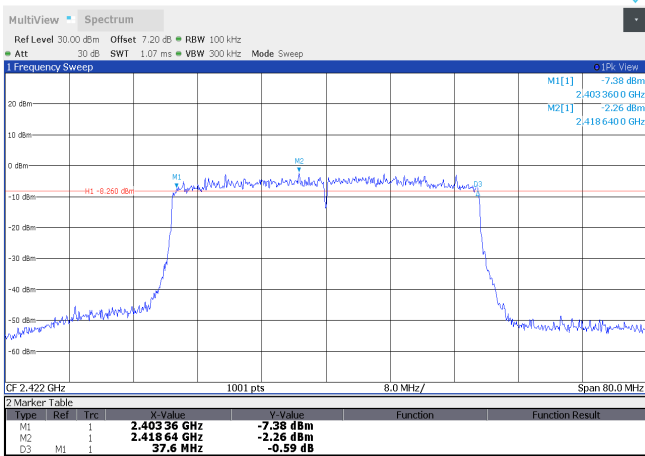
15:04:03 19.04.2022



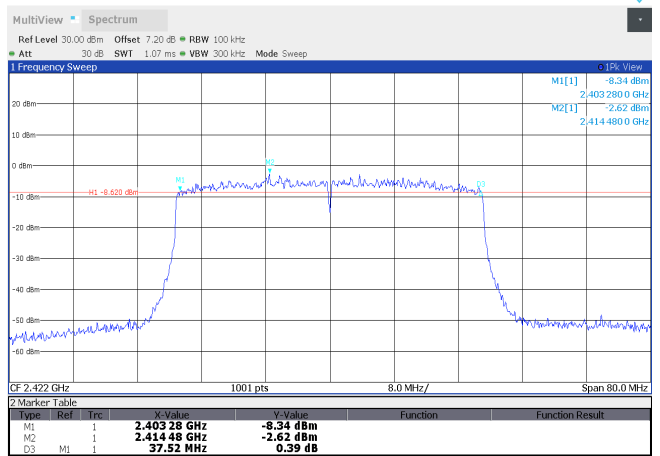
16:53:44 19.04.2022

11AX40SISO_Ant1_2422

11AX40SISO_Ant2_2422



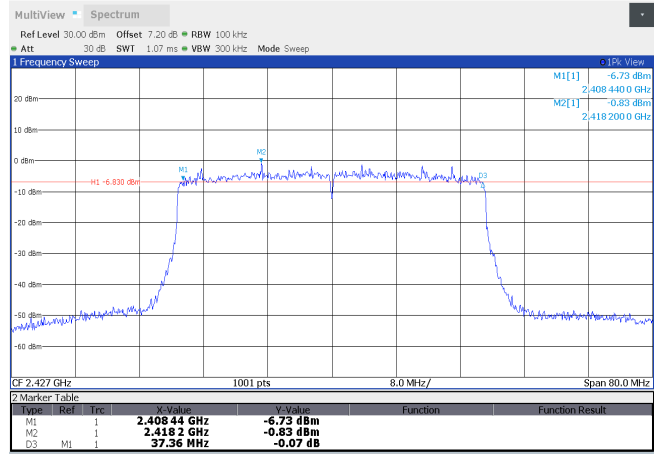
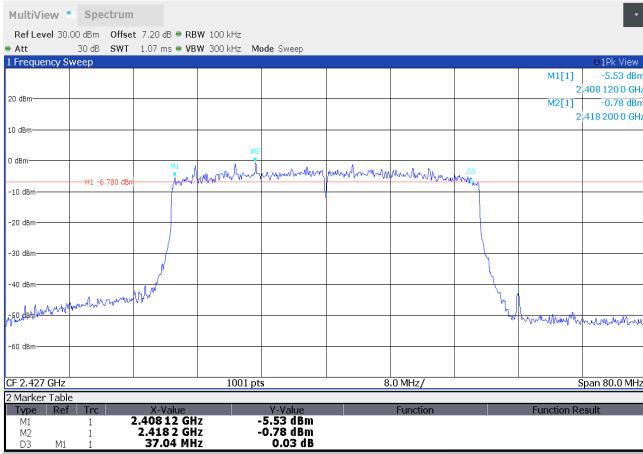
15:06:47 19.04.2022



16:57:09 19.04.2022

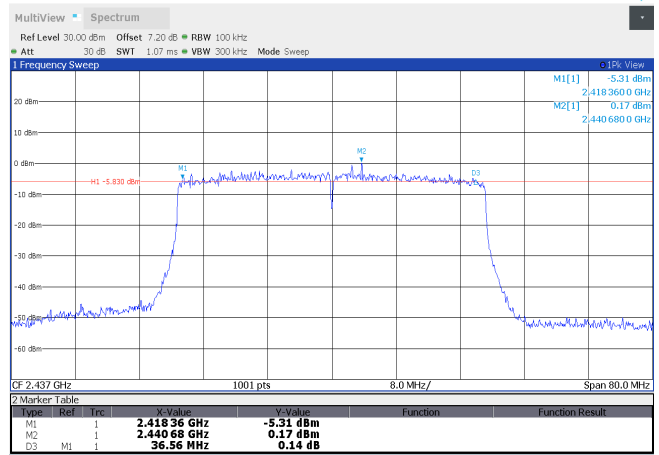
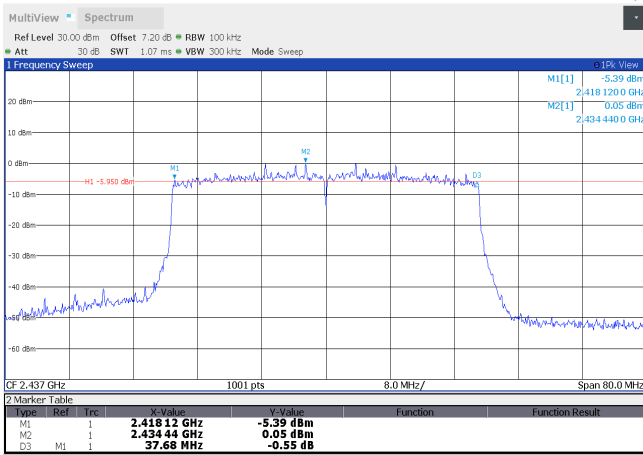
11AX40SISO_Ant1_2427

11AX40SISO_Ant2_2427



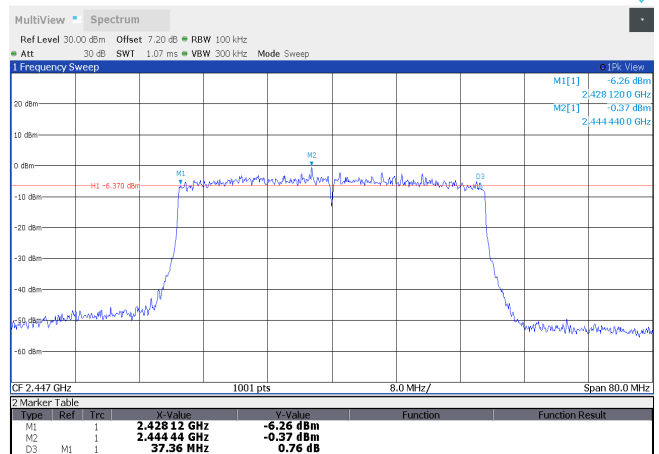
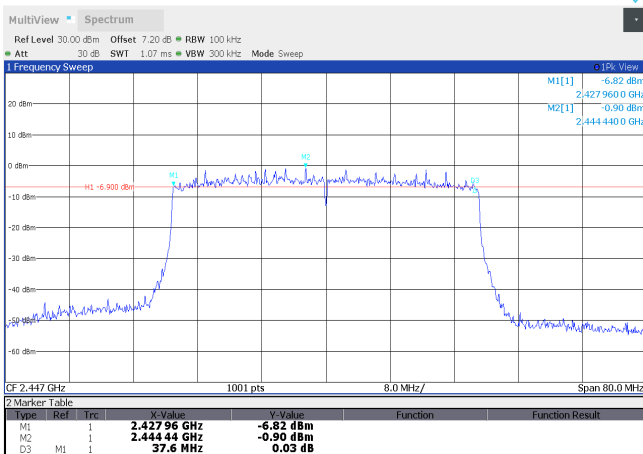
11AX40SISO_Ant1_2437

11AX40SISO_Ant2_2437



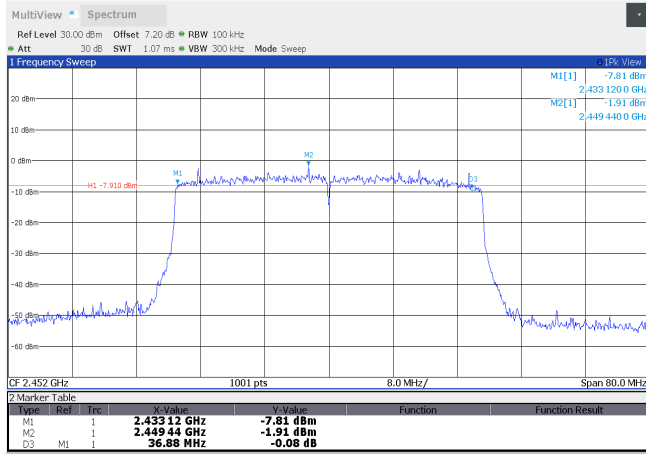
11AX40SISO_Ant1_2447

11AX40SISO_Ant2_2447

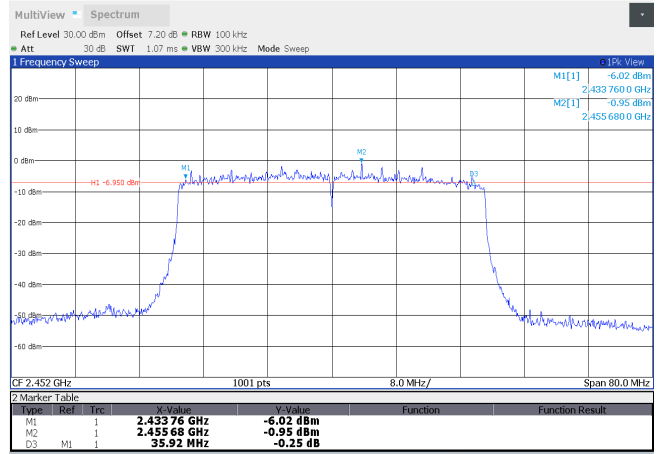


11AX40SISO_Ant1_2452

11AX40SISO_Ant2_2452



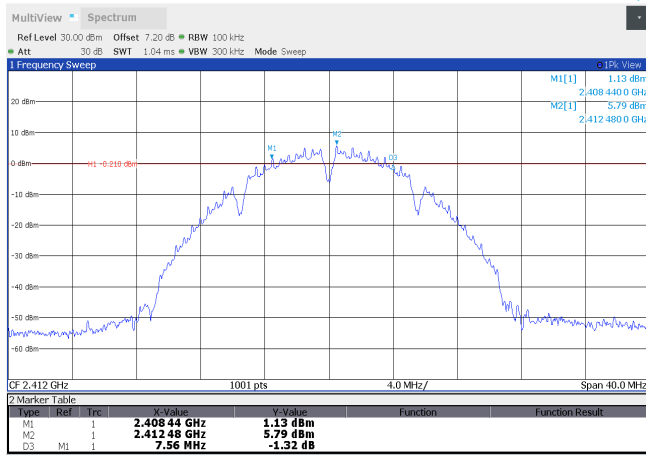
15:16:16 19.04.2022



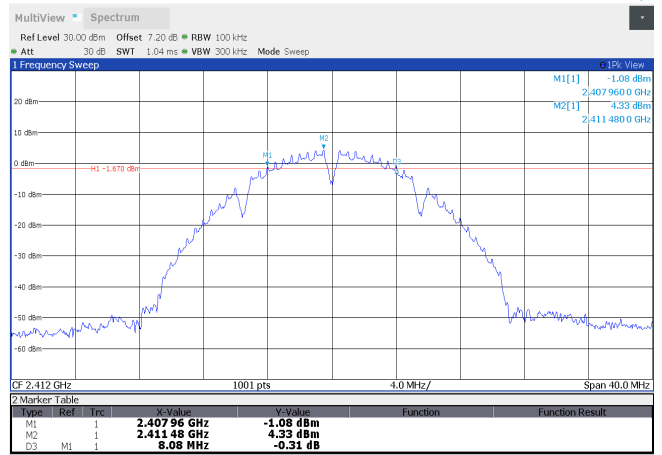
17:07:25 19.04.2022

11B-CDD_Ant1_2412

11B-CDD_Ant2_2412



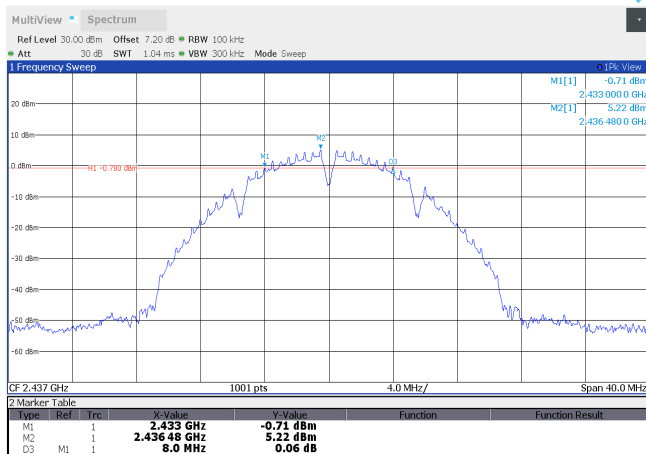
22:33:57 19.04.2022



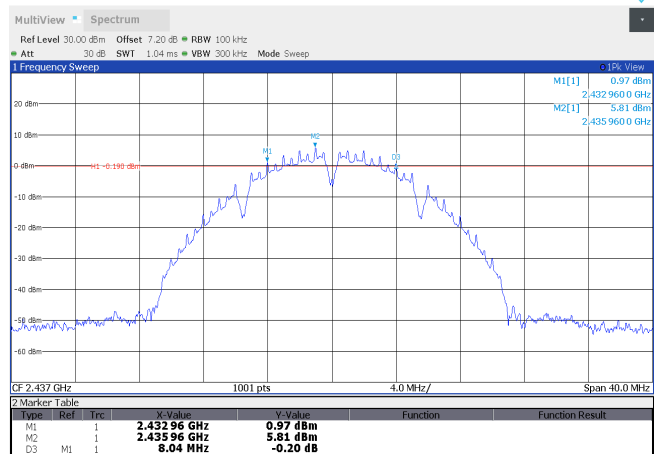
00:54:24 20.04.2022

11B-CDD_Ant1_2437

11B-CDD_Ant2_2437



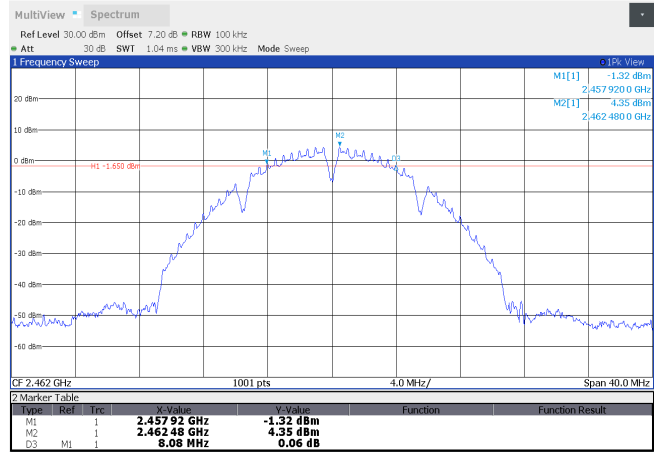
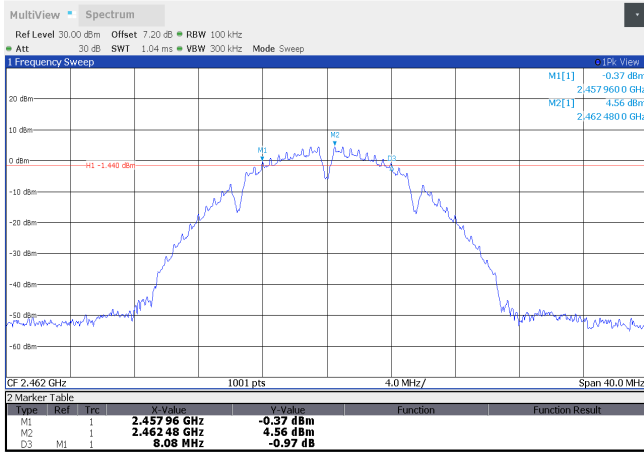
22:36:17 19.04.2022



00:56:46 20.04.2022

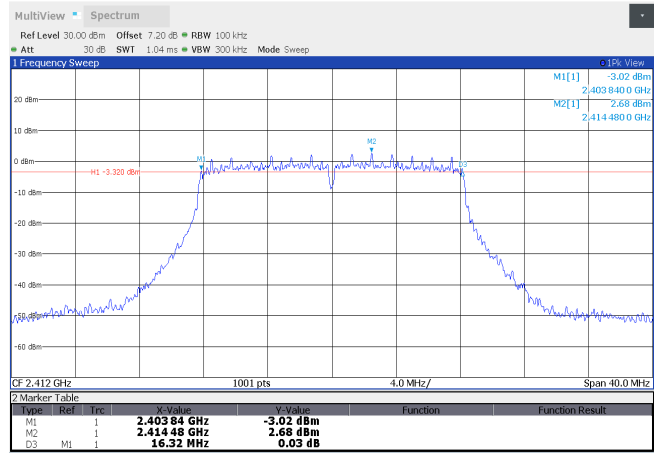
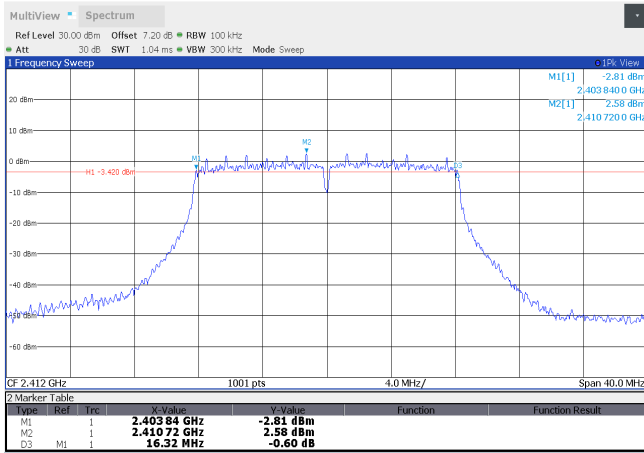
11B-CDD_Ant1_2462

11B-CDD_Ant2_2462



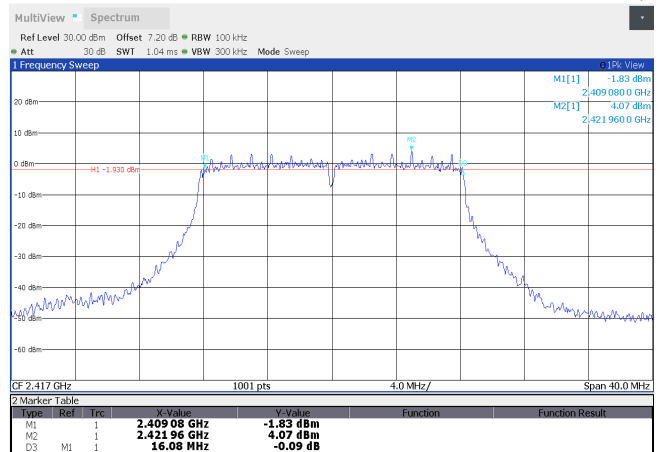
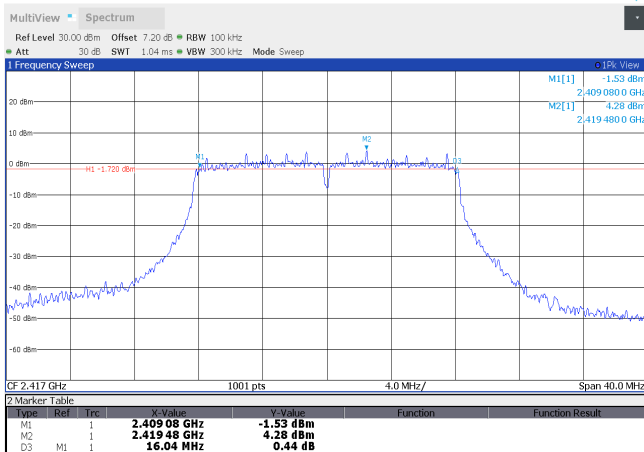
11G-CDD_Ant1_2412

11G-CDD_Ant2_2412



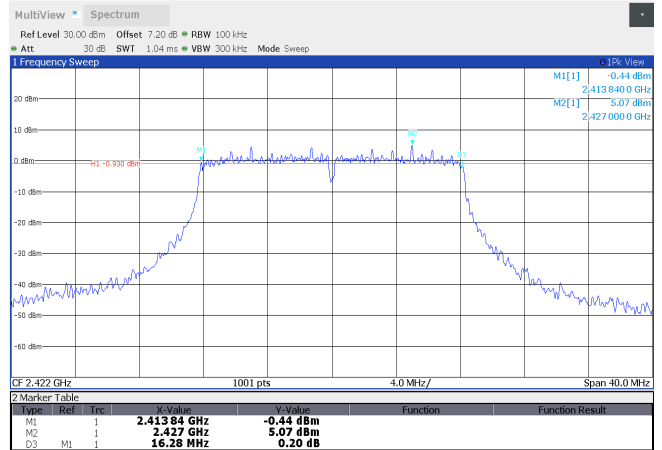
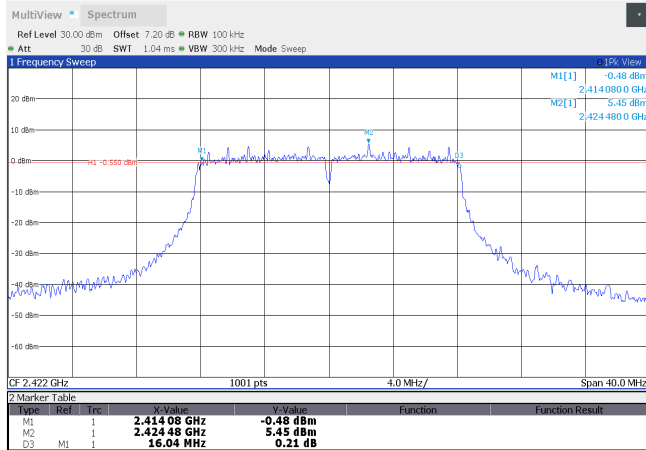
11G-CDD_Ant1_2417

11G-CDD_Ant2_2417



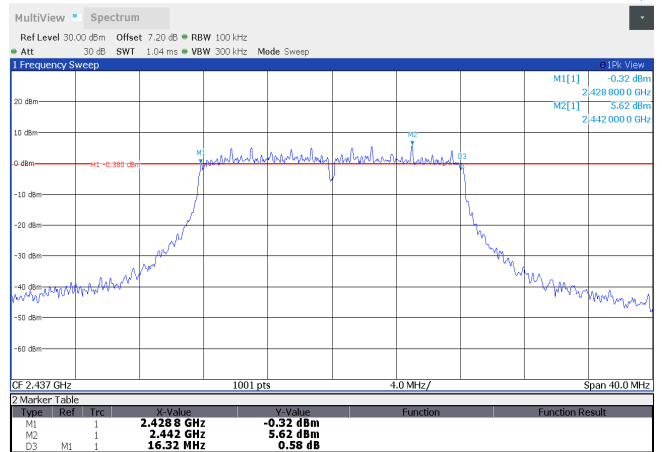
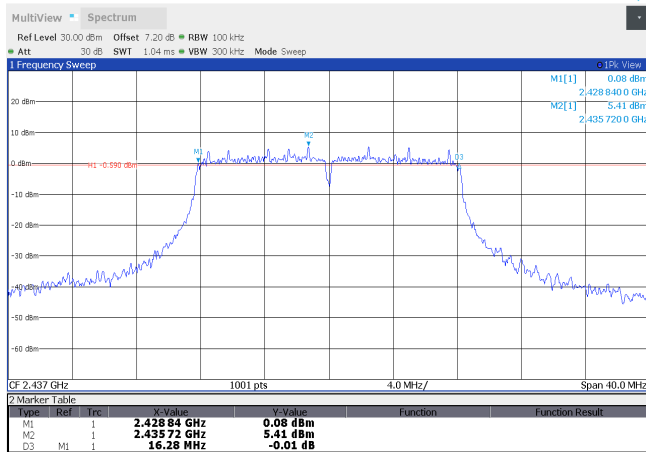
11G-CDD_Ant1_2422

11G-CDD_Ant2_2422



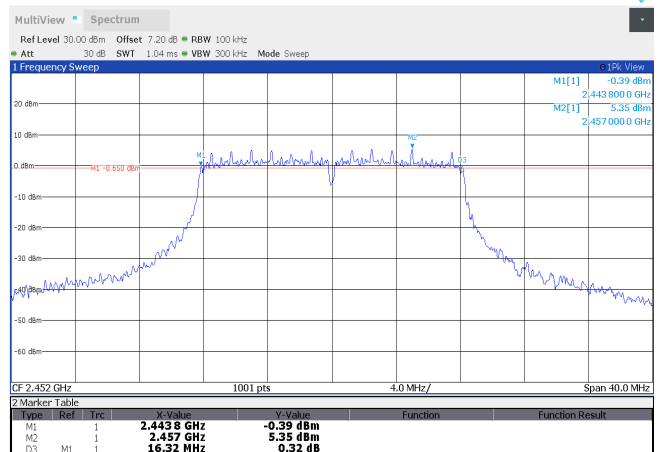
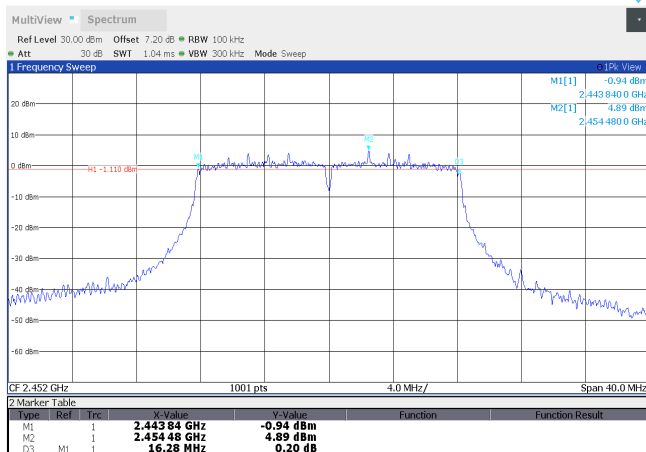
11G-CDD_Ant1_2437

11G-CDD_Ant2_2437

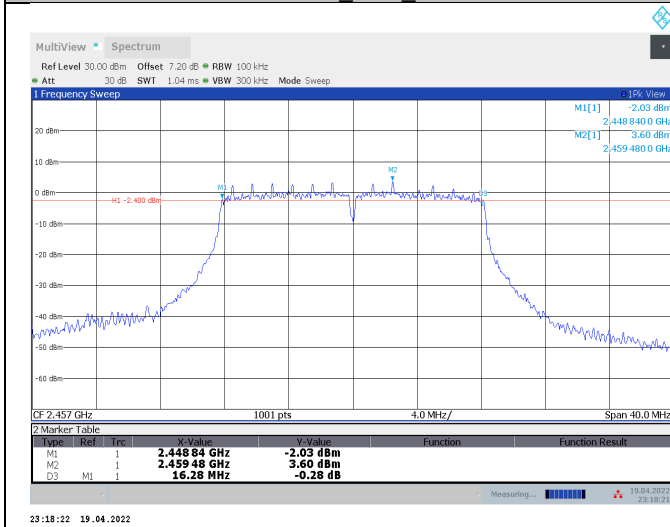


11G-CDD_Ant1_2452

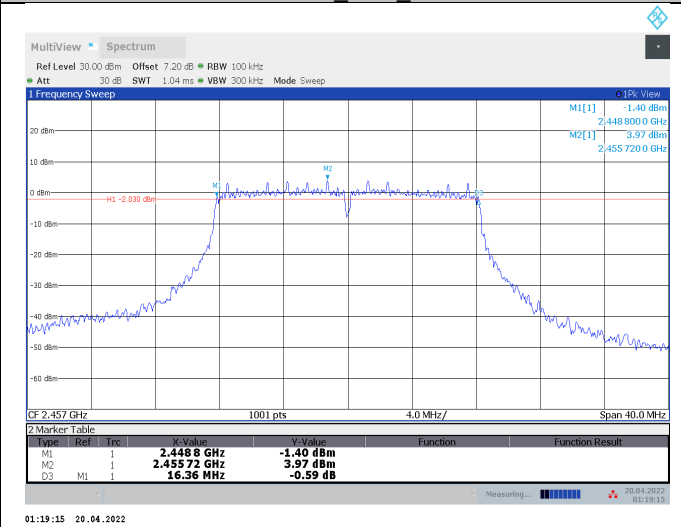
11G-CDD_Ant2_2452



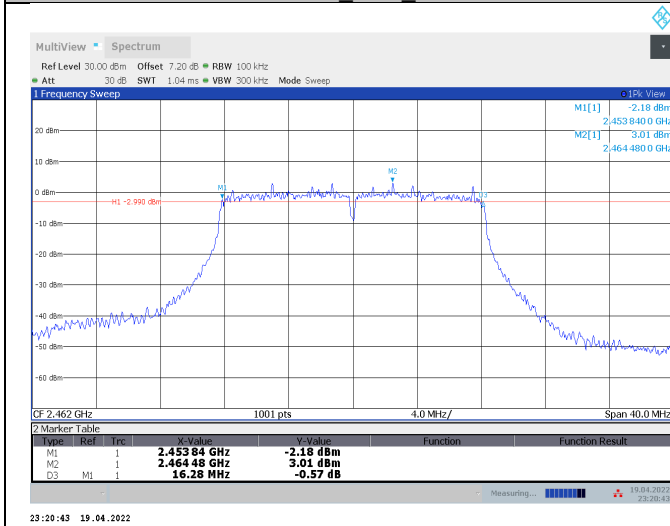
11G-CDD_Ant1_2457



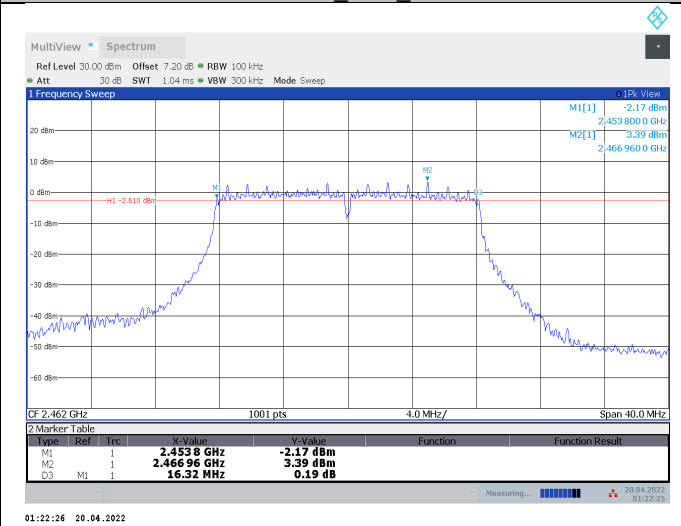
11G-CDD_Ant2_2457



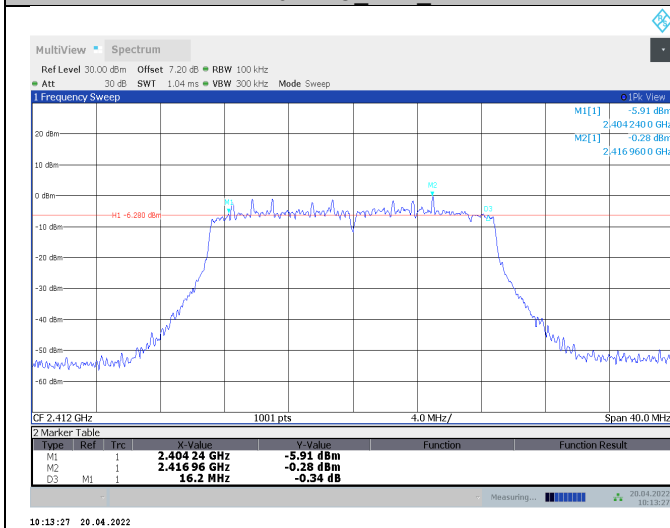
11G-CDD_Ant1_2462



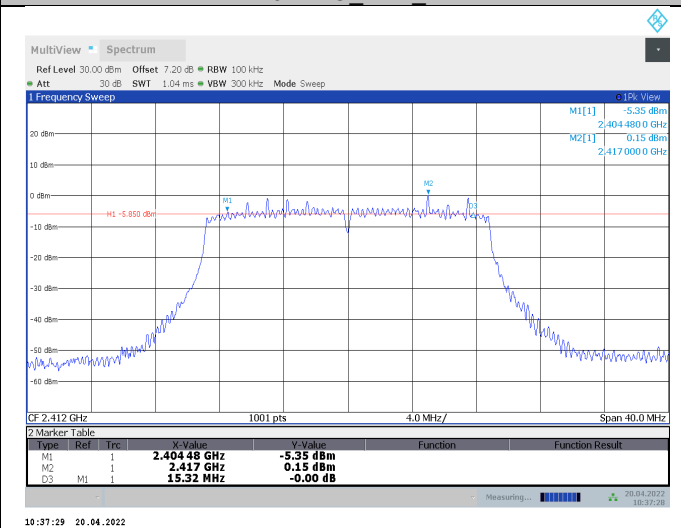
11G-CDD_Ant2_2462



11N20MIMO_Ant1_2412

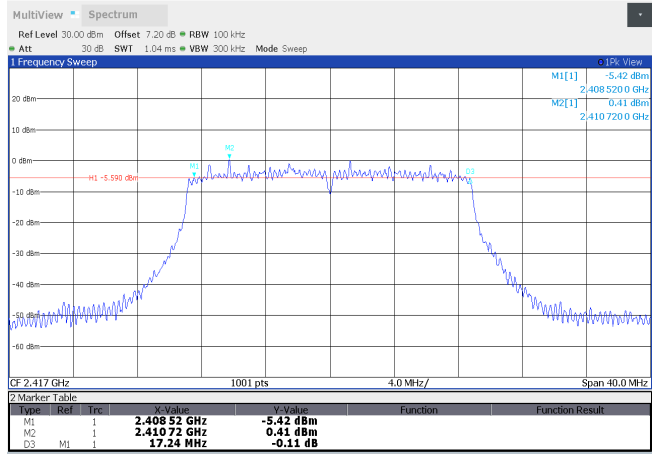
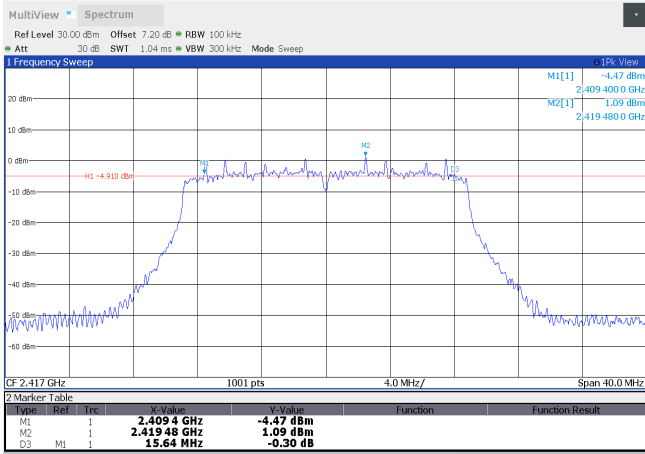


11N20MIMO_Ant2_2412



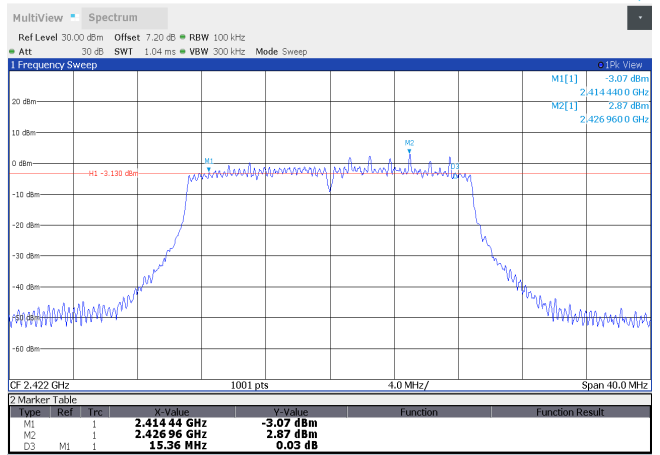
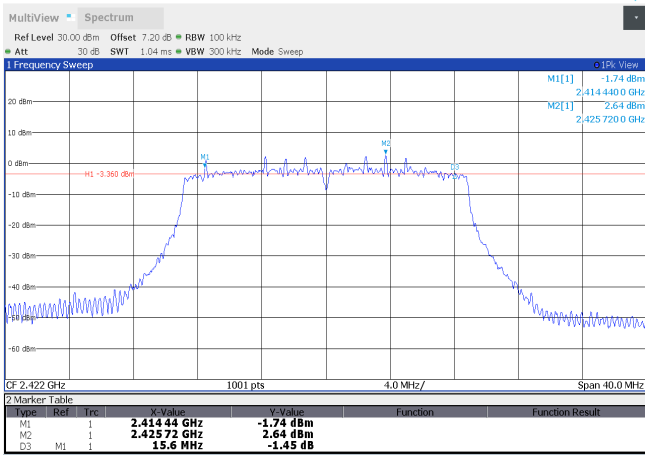
11N20MIMO_Ant1_2417

11N20MIMO_Ant2_2417



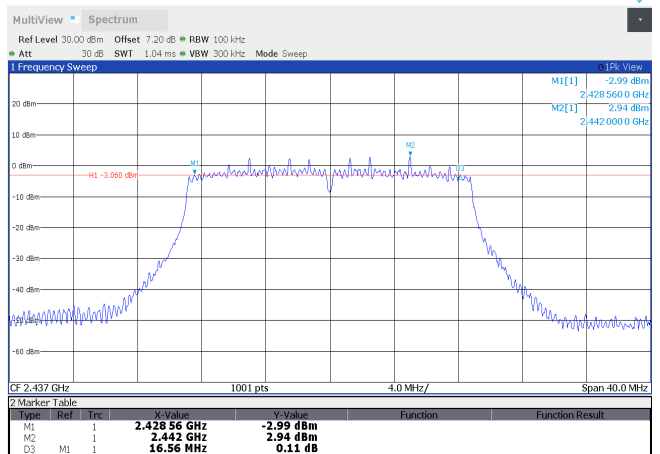
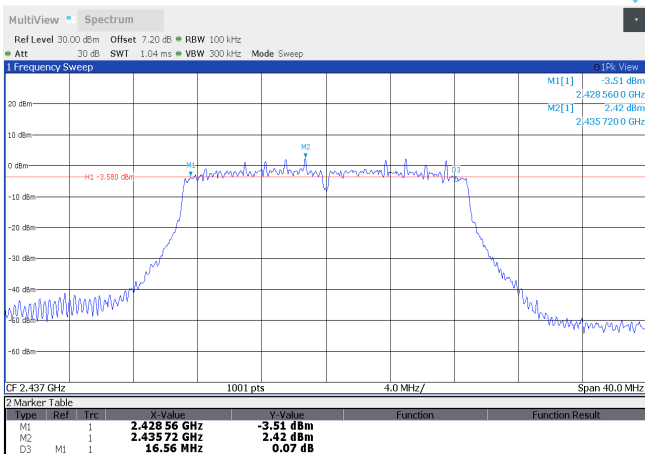
11N20MIMO_Ant1_2422

11N20MIMO_Ant2_2422



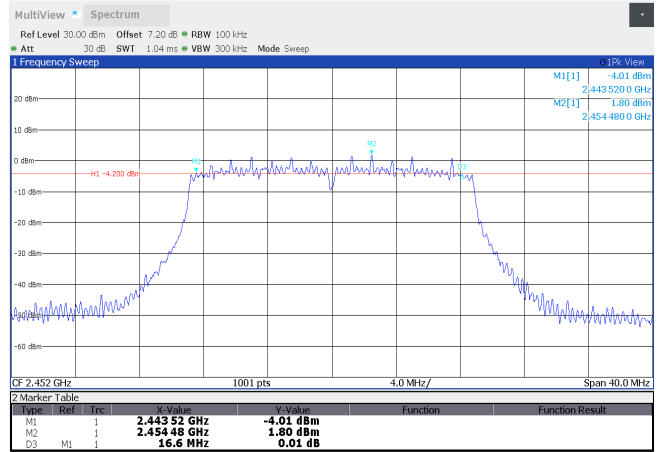
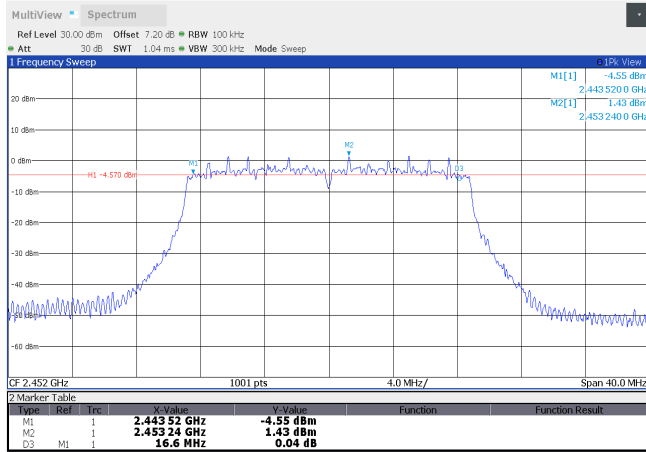
11N20MIMO_Ant1_2437

11N20MIMO_Ant2_2437



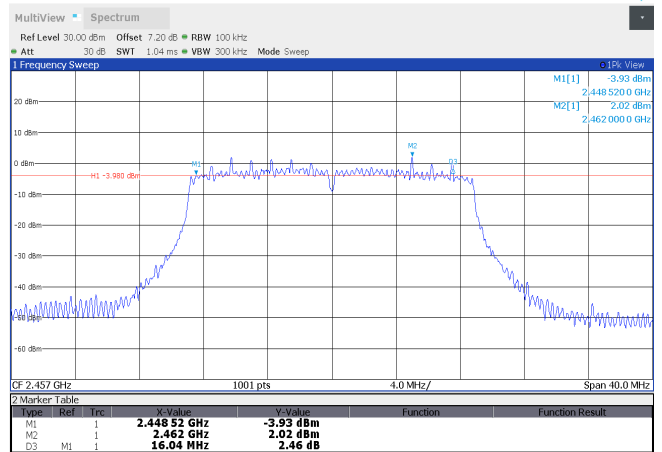
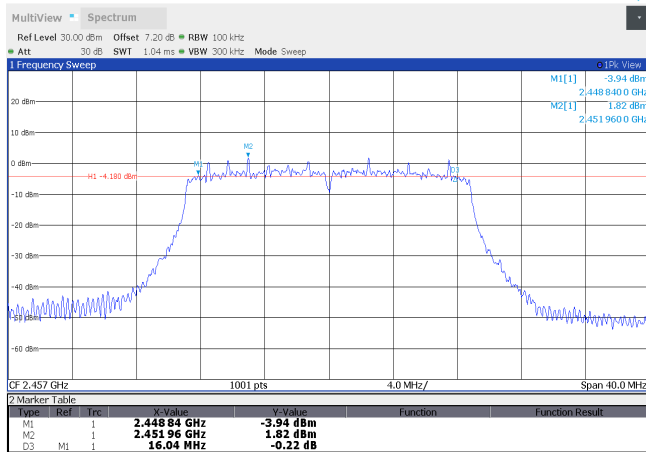
11N20MIMO_Ant1_2452

11N20MIMO_Ant2_2452



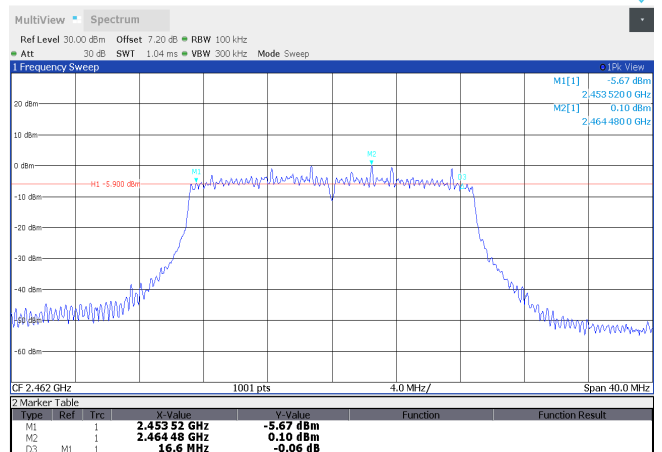
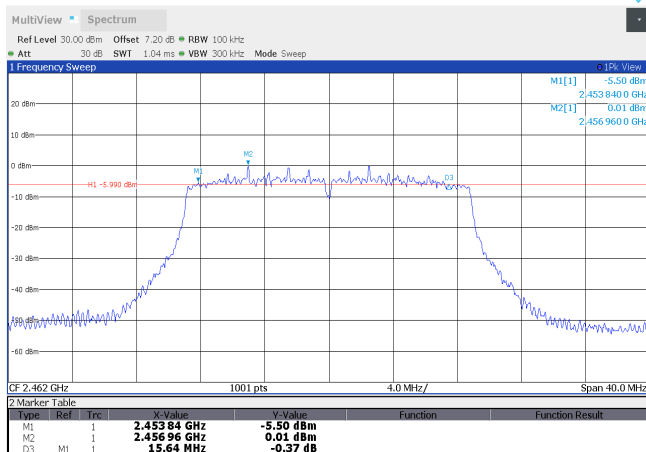
11N20MIMO_Ant1_2457

11N20MIMO_Ant2_2457



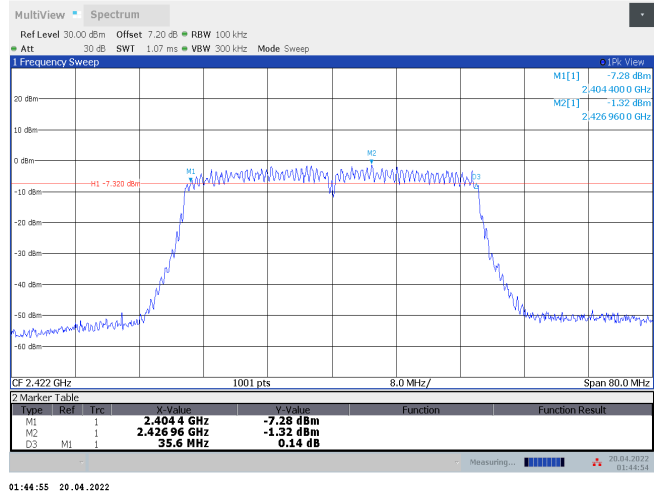
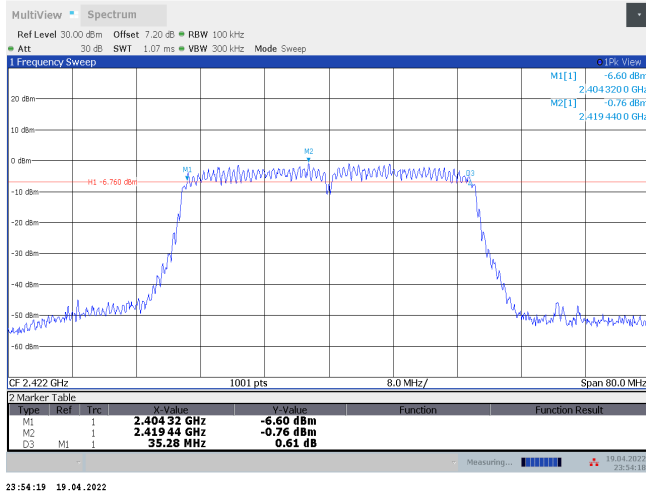
11N20MIMO_Ant1_2462

11N20MIMO_Ant2_2462



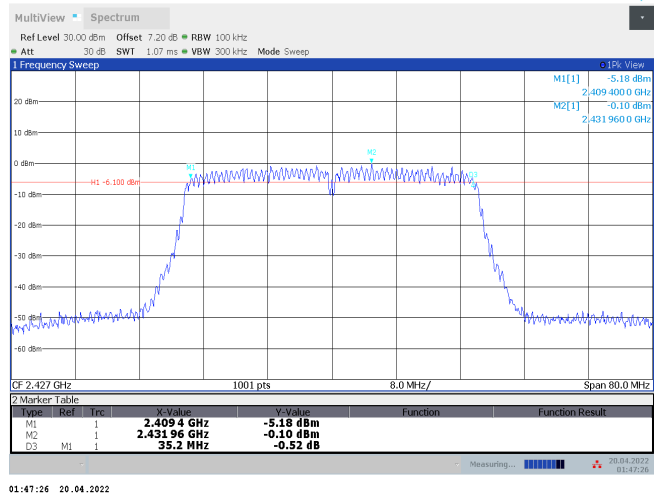
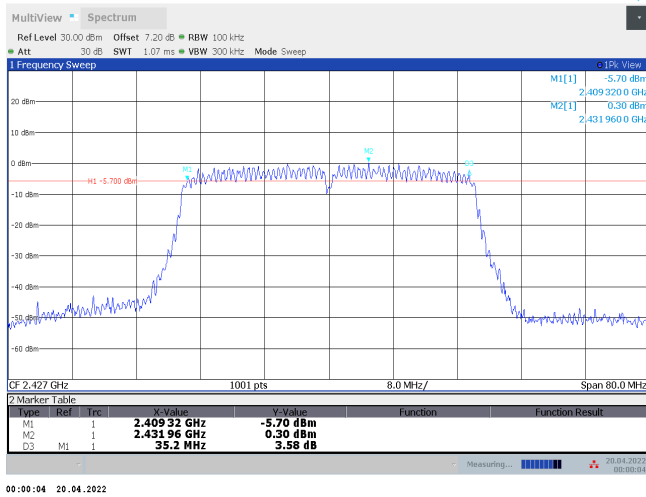
11N40MIMO_Ant1_2422

11N40MIMO_Ant2_2422



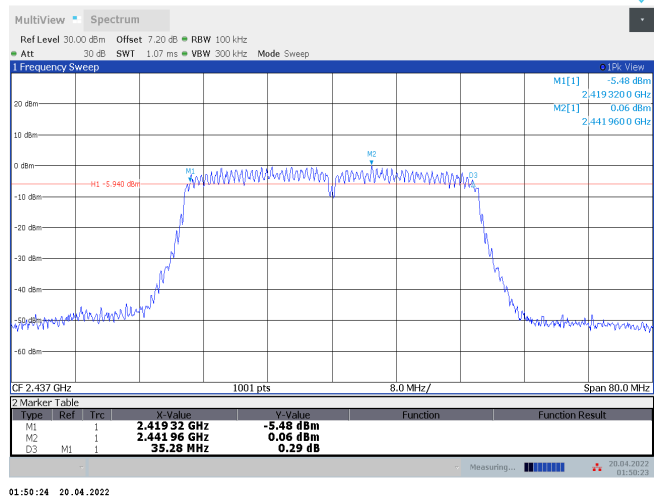
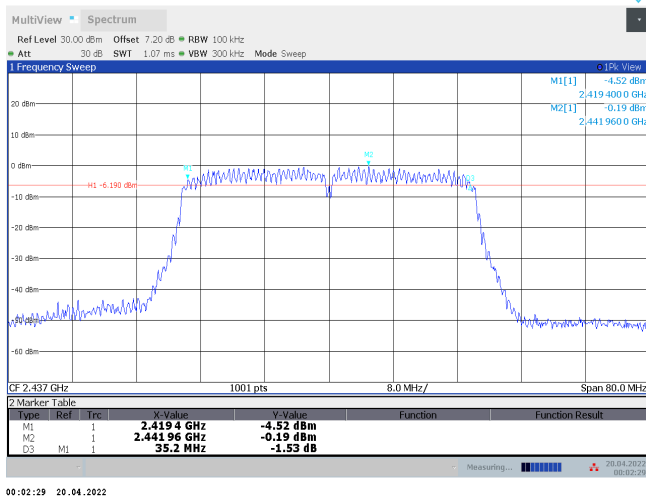
11N40MIMO_Ant1_2427

11N40MIMO_Ant2_2427



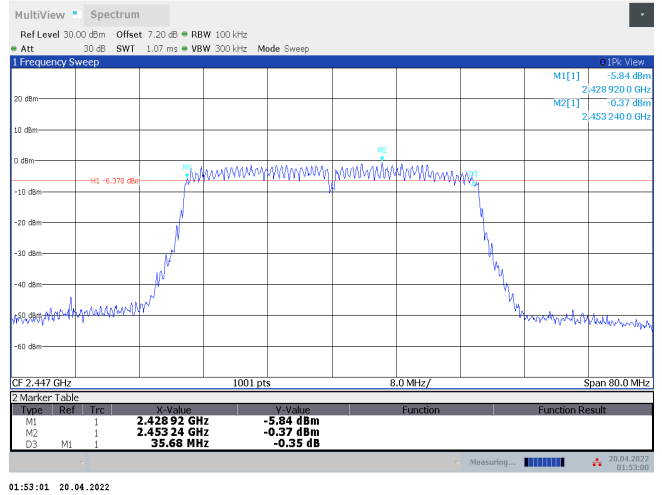
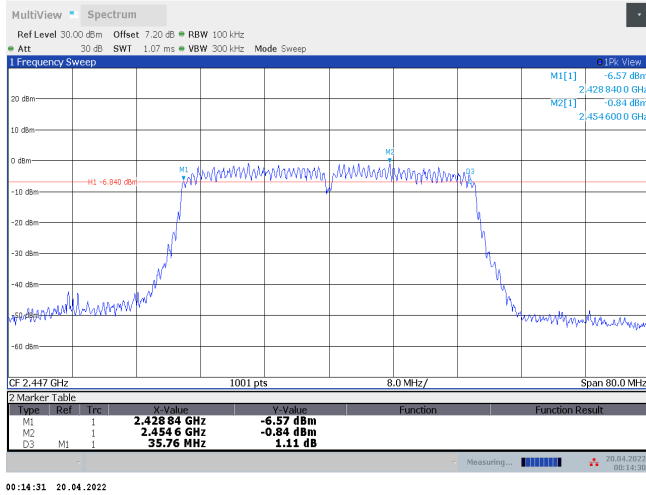
11N40MIMO_Ant1_2437

11N40MIMO_Ant2_2437



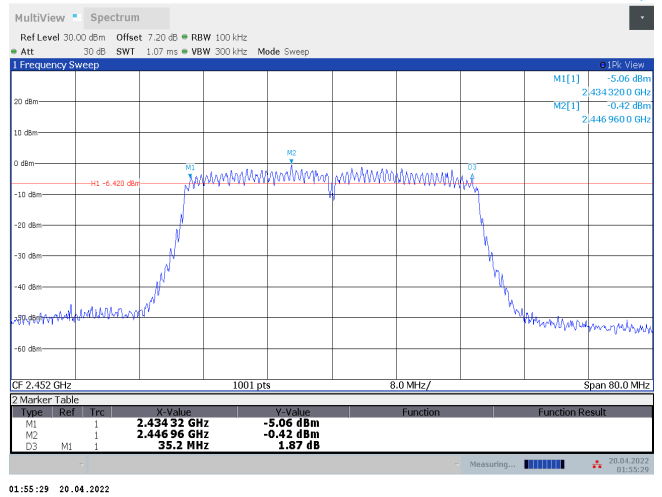
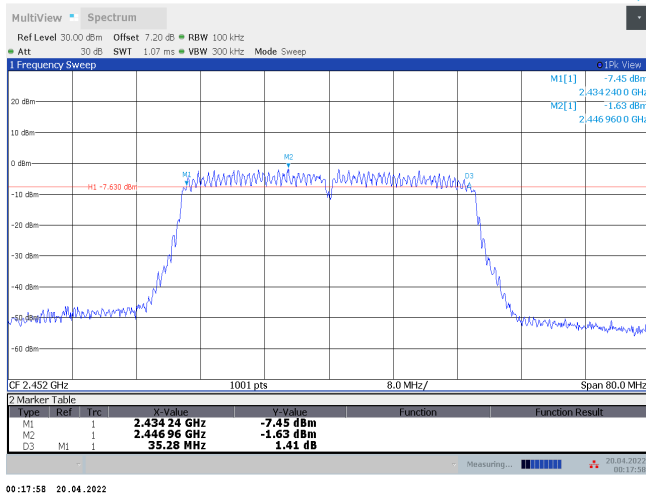
11N40MIMO_Ant1_2447

11N40MIMO_Ant2_2447



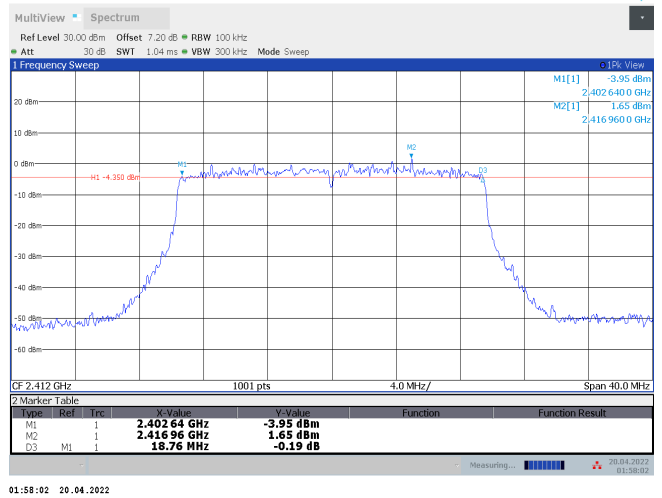
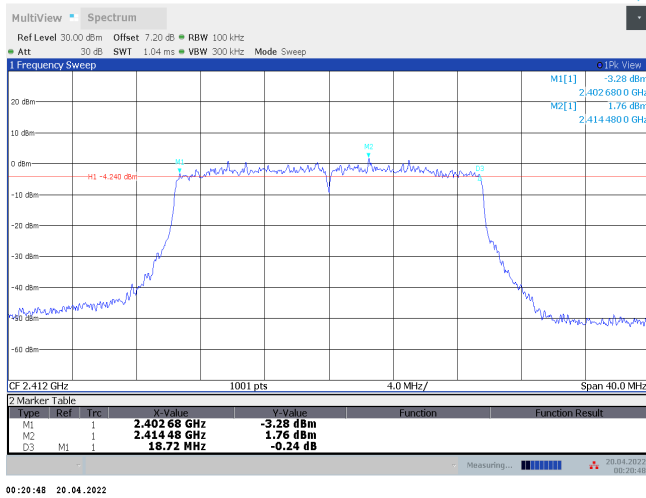
11N40MIMO_Ant1_2452

11N40MIMO_Ant2_2452

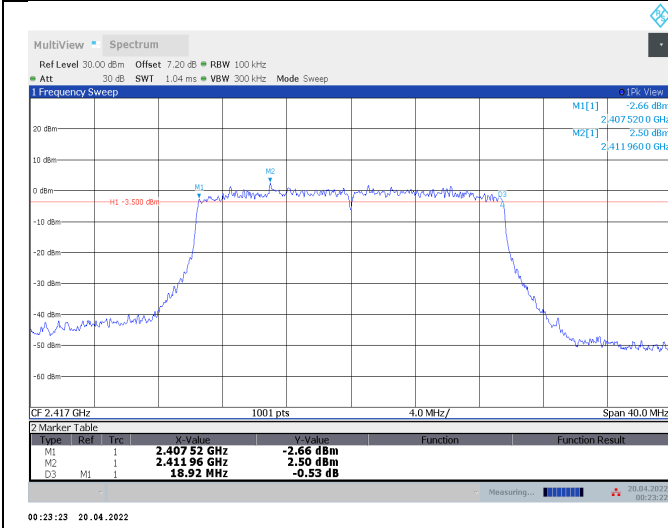


11AX20MIMO_Ant1_2412

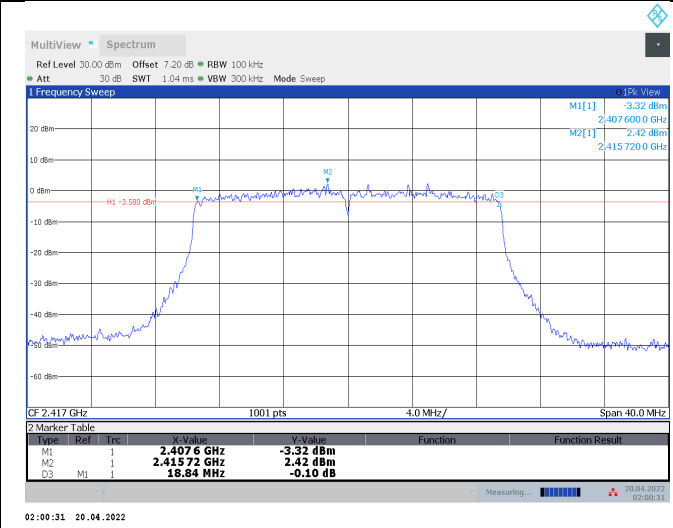
11AX20MIMO_Ant2_2412



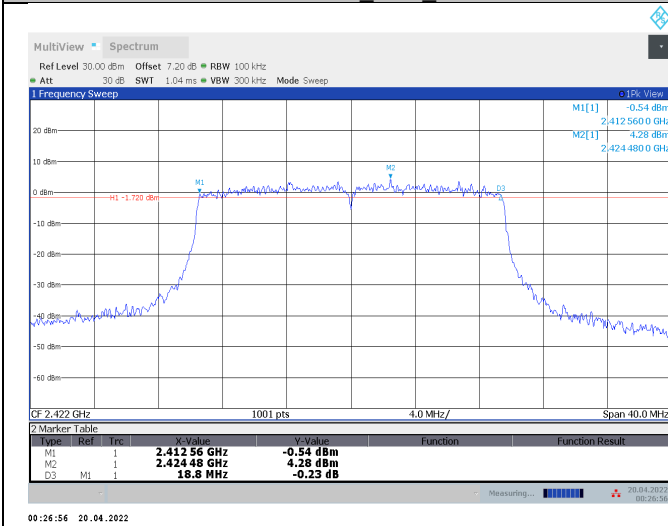
11AX20MIMO_Ant1_2417



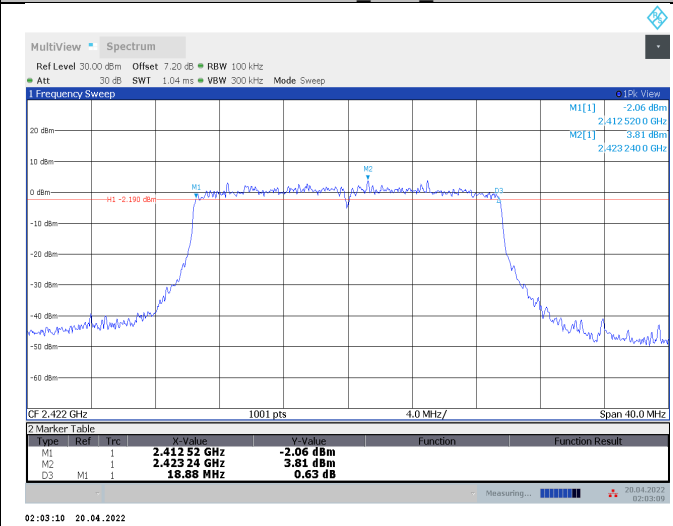
11AX20MIMO_Ant2_2417



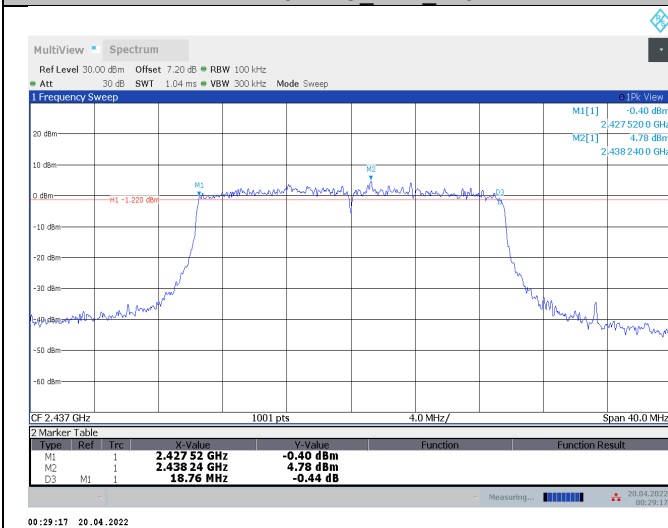
11AX20MIMO_Ant1_2422



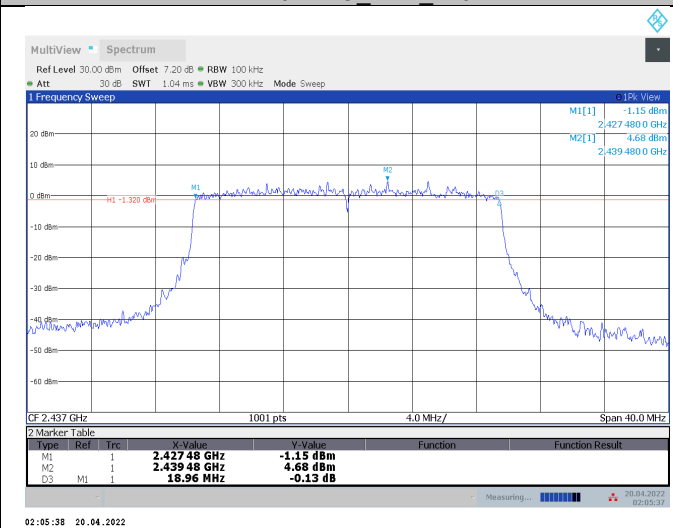
11AX20MIMO_Ant2_2422



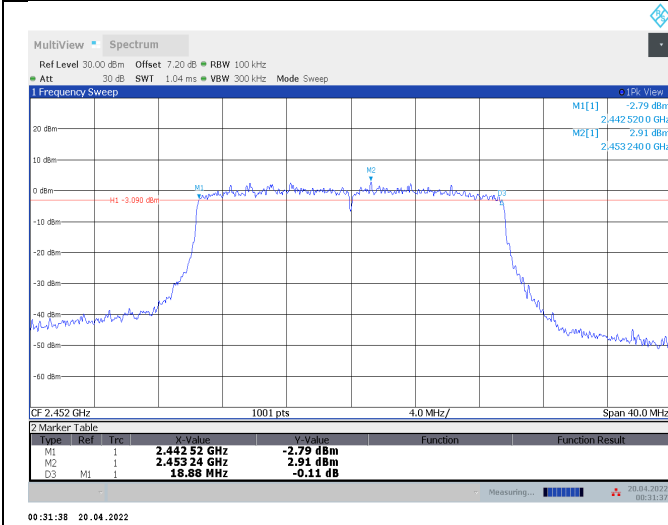
11AX20MIMO_Ant1_2437



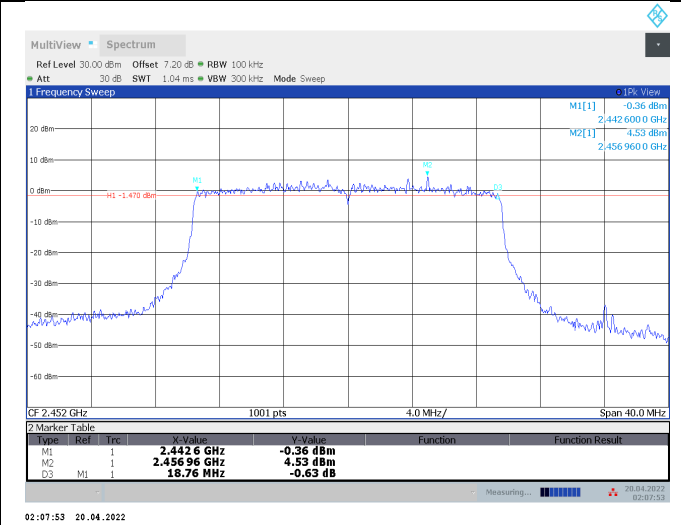
11AX20MIMO_Ant2_2437



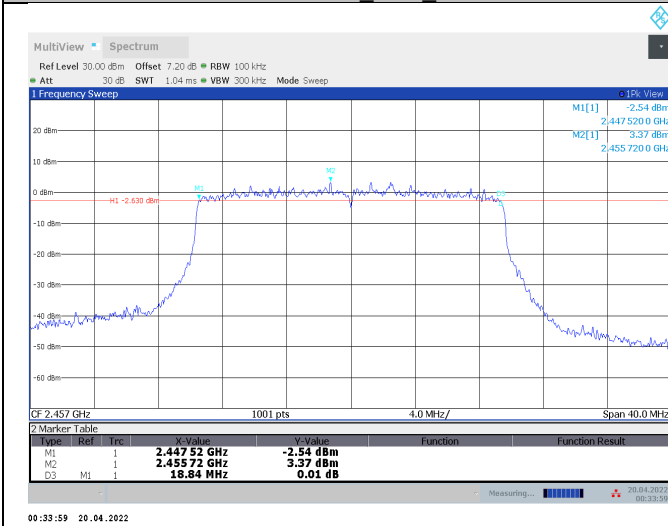
11AX20MIMO_Ant1_2452



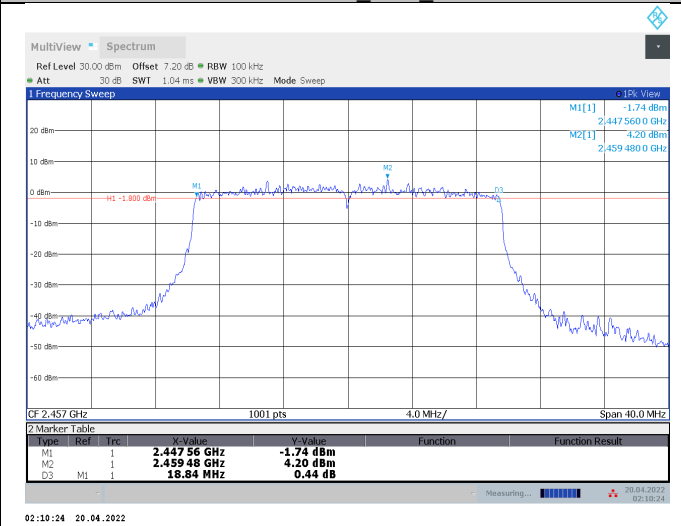
11AX20MIMO_Ant2_2452



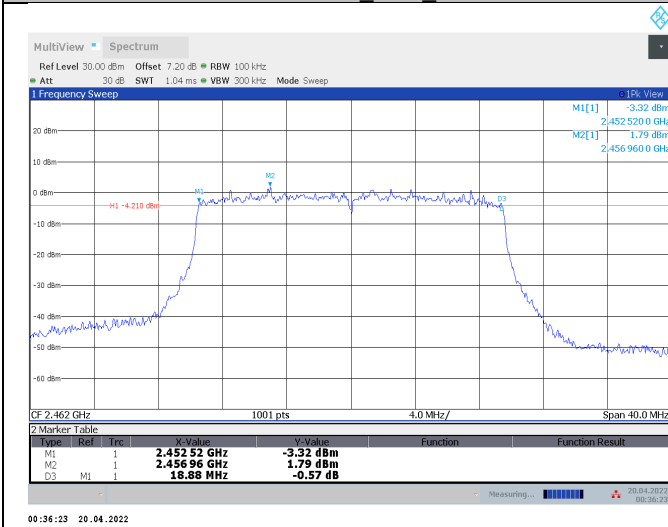
11AX20MIMO_Ant1_2457



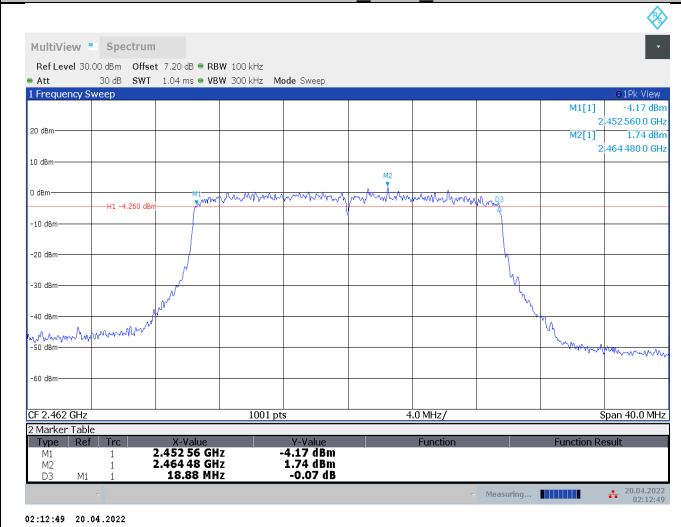
11AX20MIMO_Ant2_2457



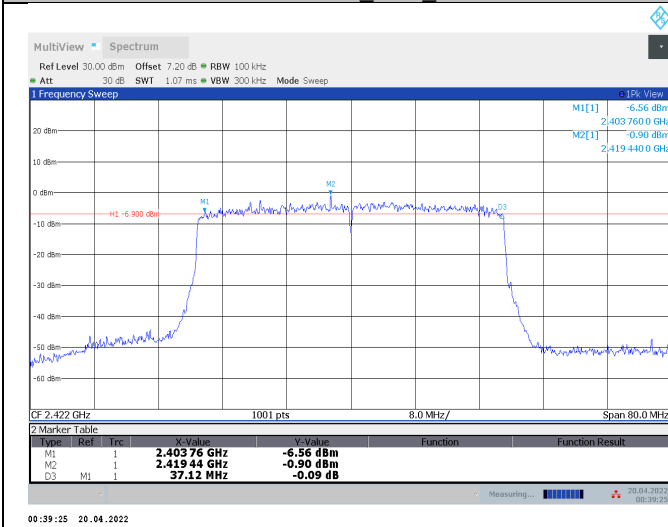
11AX20MIMO_Ant1_2462



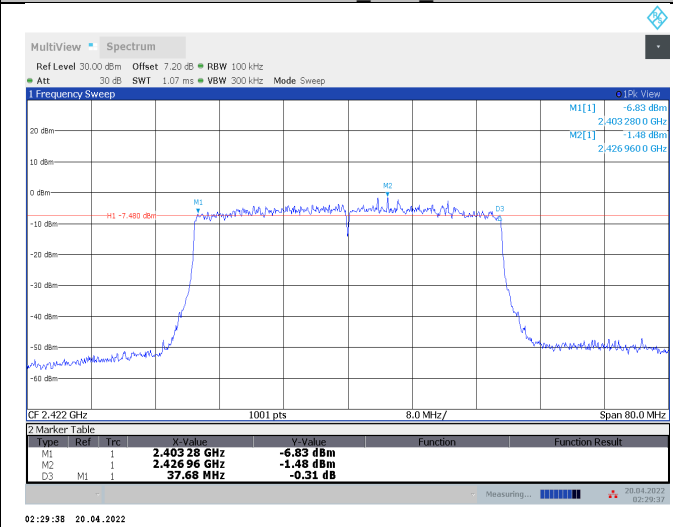
11AX20MIMO_Ant2_2462



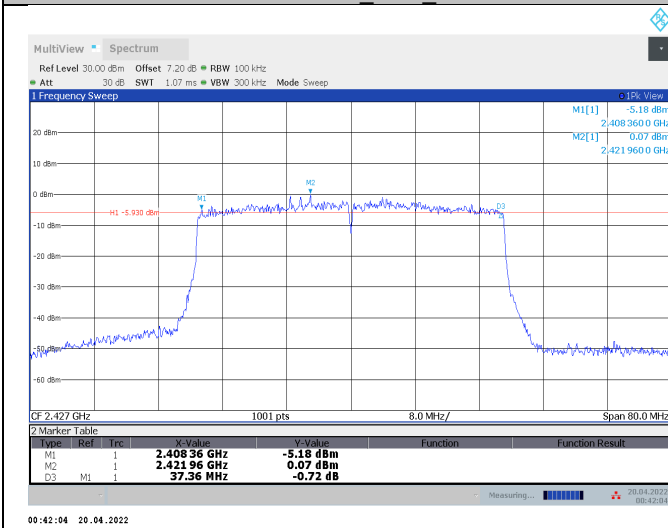
11AX40MIMO_Ant1_2422



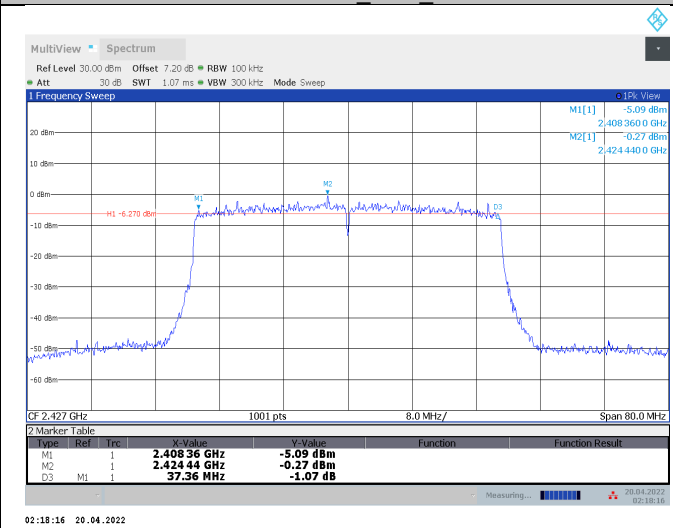
11AX40MIMO_Ant2_2422



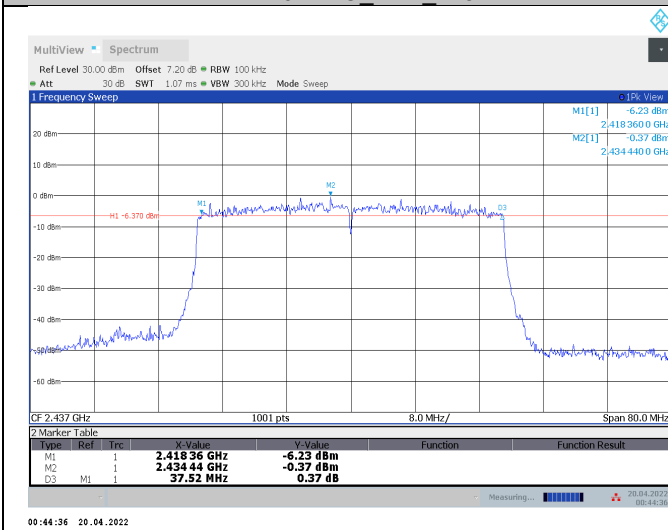
11AX40MIMO_Ant1_2427



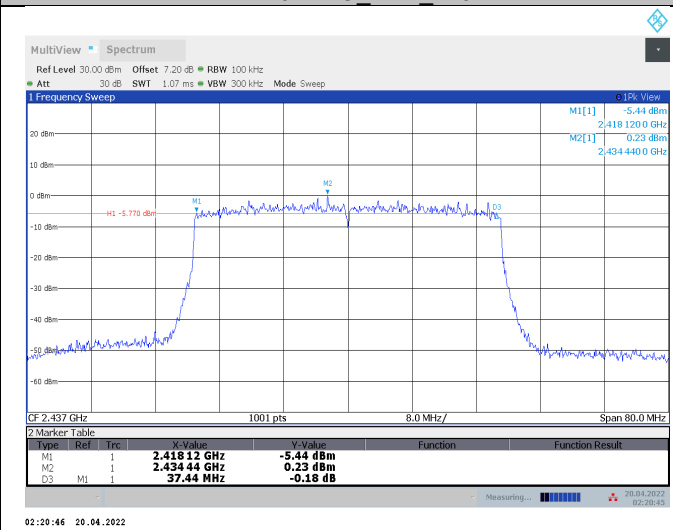
11AX40MIMO_Ant2_2427



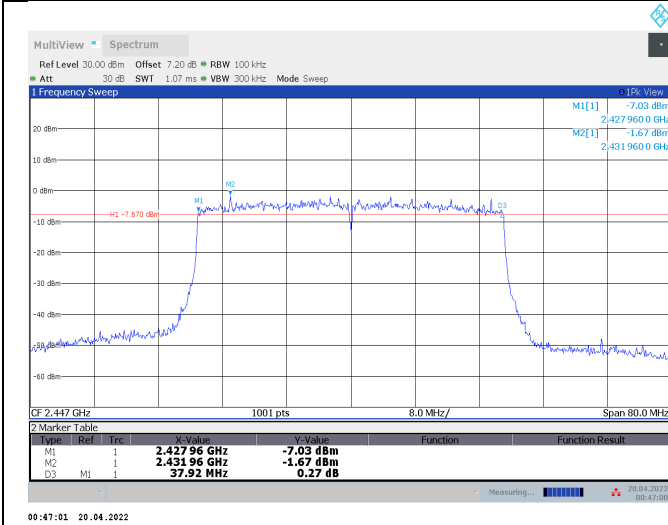
11AX40MIMO_Ant1_2437



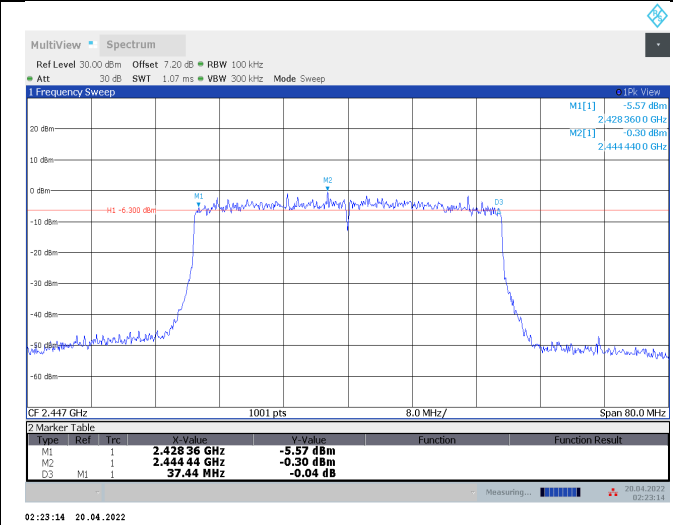
11AX40MIMO_Ant2_2437



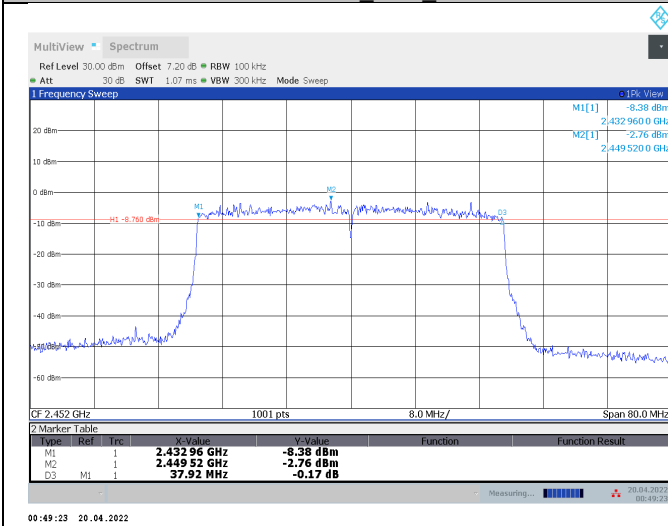
11AX40MIMO_Ant1_2447



11AX40MIMO_Ant2_2447



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452

