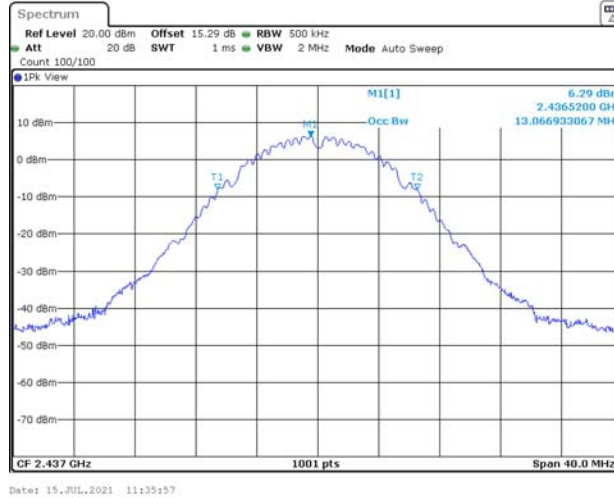
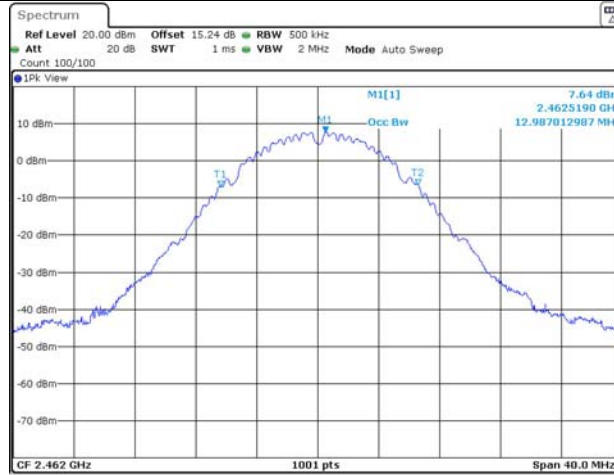


11B_Ant0_2437



Date: 15.JUL.2021 11:35:57

11B_Ant1_2462



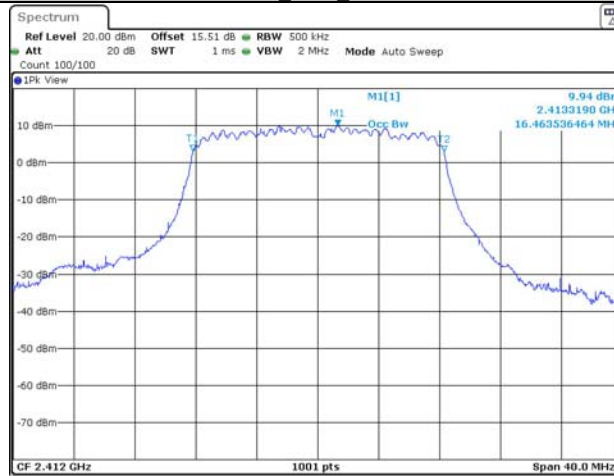
Date: 15.JUL.2021 11:21:15

11B_Ant0_2462



Date: 15.JUL.2021 11:37:15

11G Ant1 2412



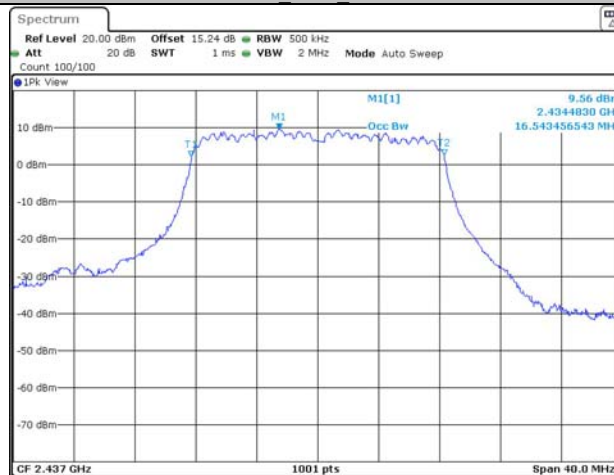
Date: 15.JUL.2021 11:28:30

11G Ant0 2412

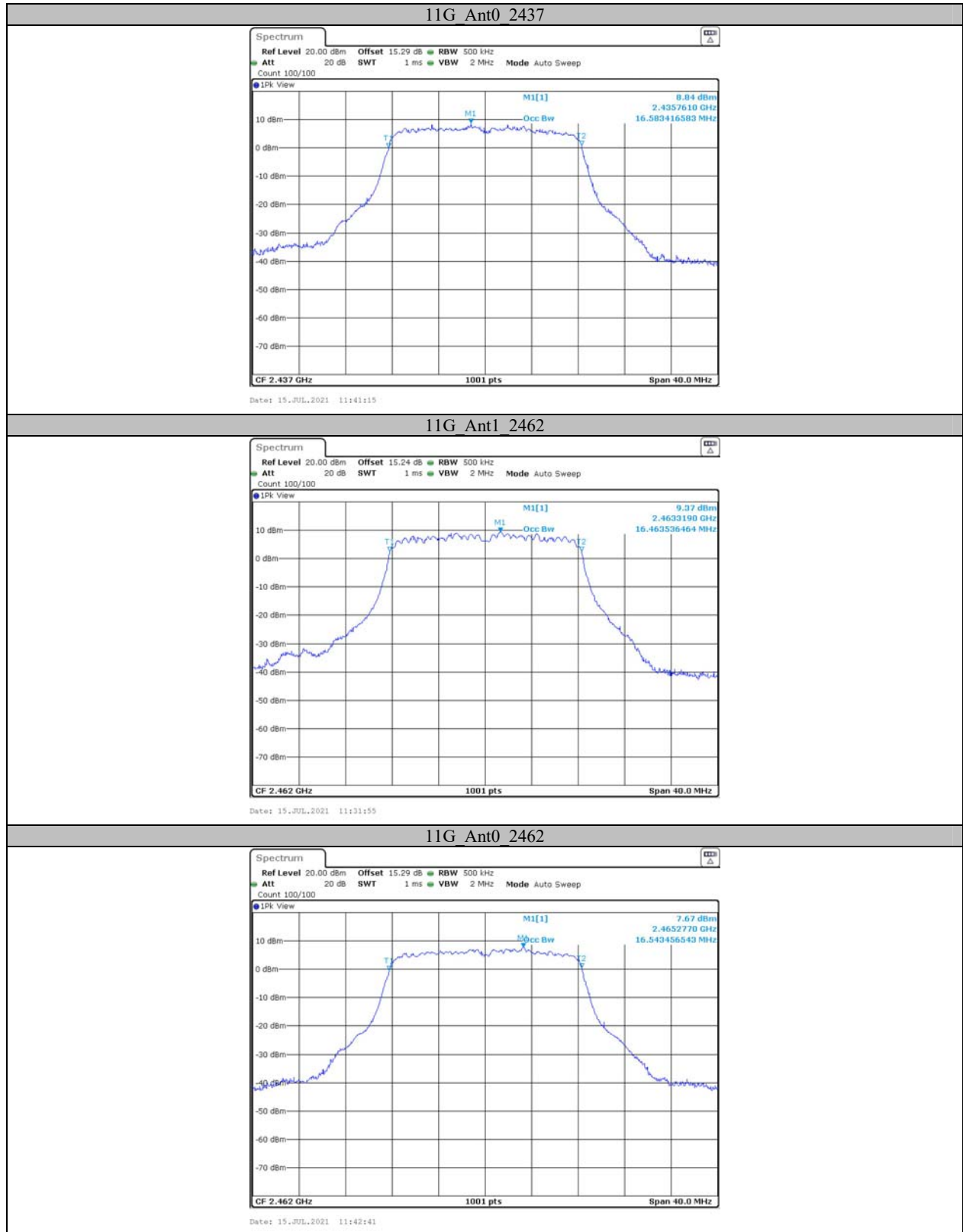


Date: 15.JUL.2021 11:39:40

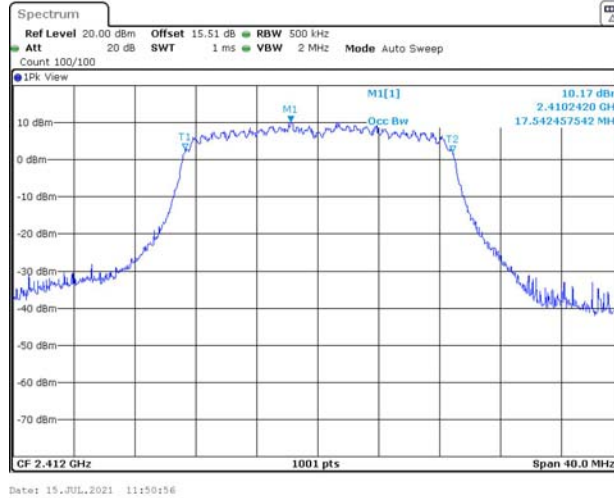
11G Ant1 2437



Date: 15.JUL.2021 11:30:06



11N20MIMO Ant1 2412



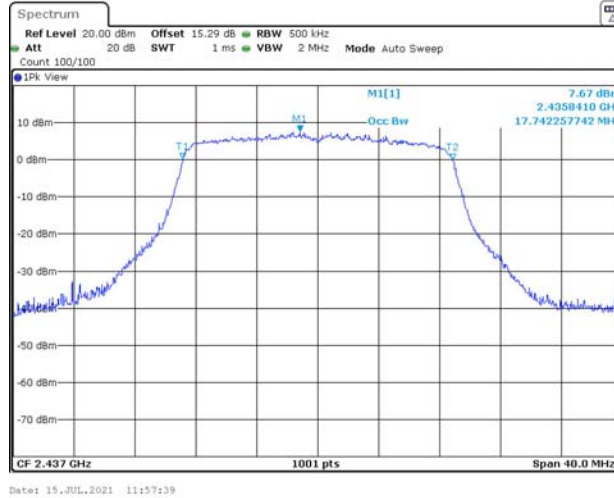
11N20MIMO Ant0 2412



11N20MIMO Ant1 2437



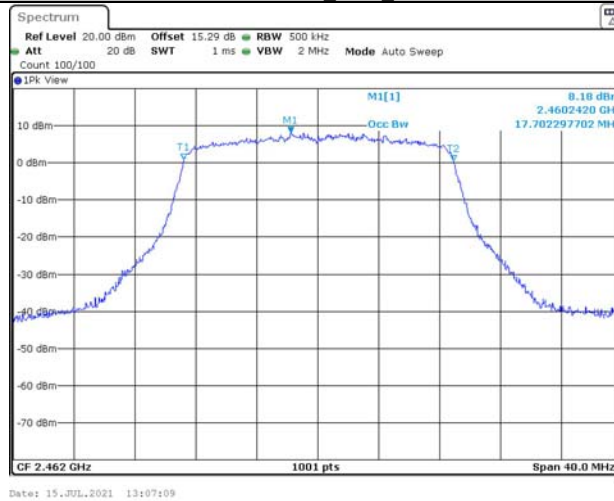
11N20MIMO Ant0 2437



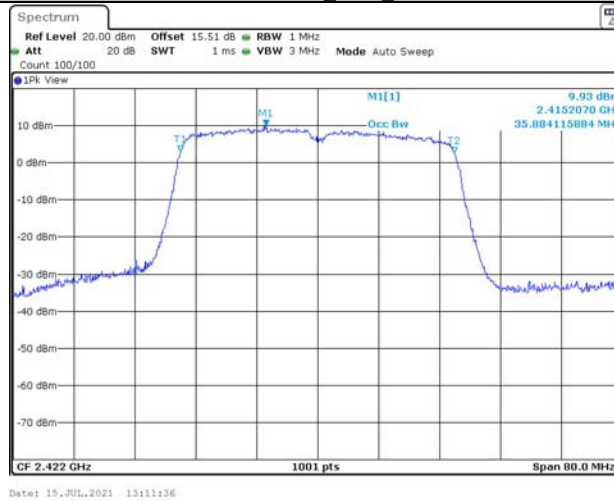
11N20MIMO Ant1 2462



11N20MIMO Ant0 2462

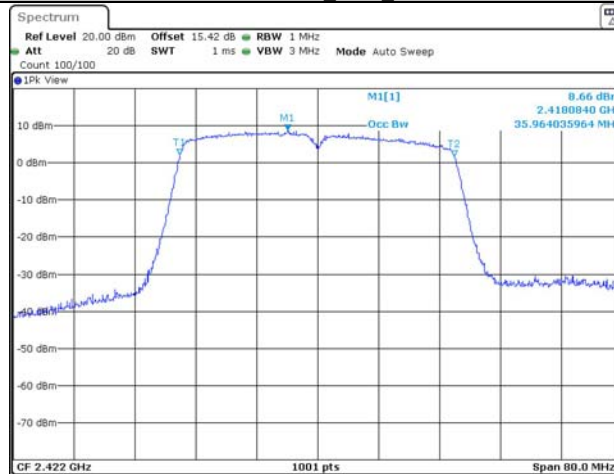


11N40MIMO Ant1 2422



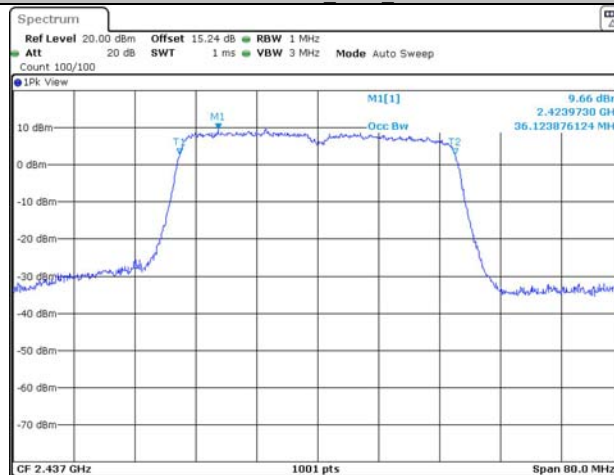
Date: 15.JUL.2021 13:11:36

11N40MIMO Ant0 2422

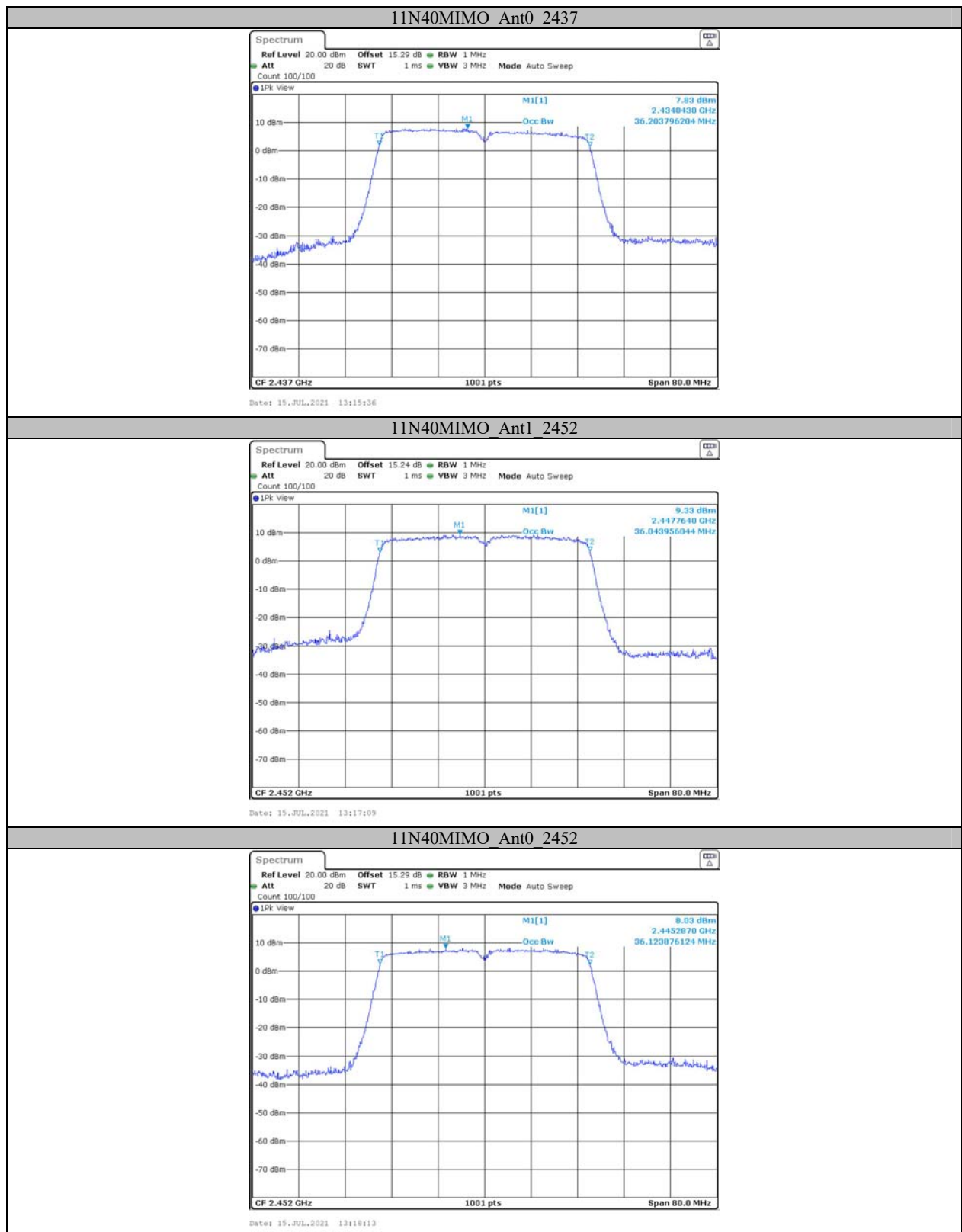


Date: 15.JUL.2021 13:12:40

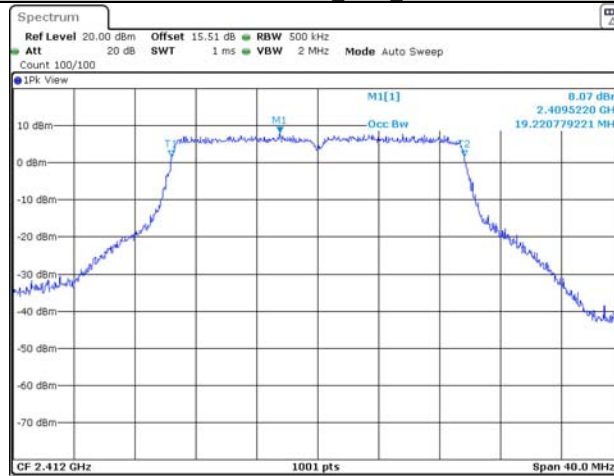
11N40MIMO Ant1 2437



Date: 15.JUL.2021 13:14:26



11AX20MIMO Ant1 2412



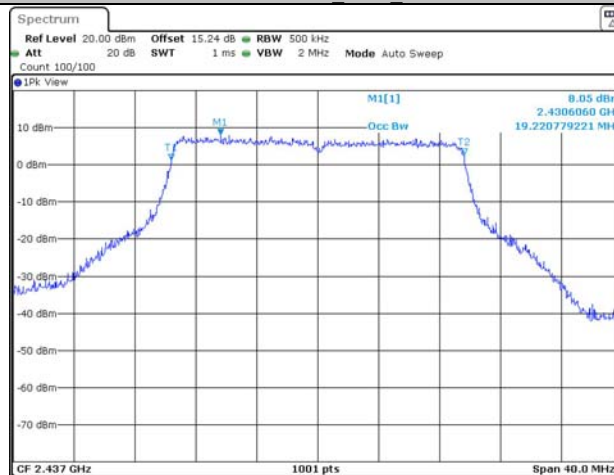
Date: 15.JUL.2021 13:23:08

11AX20MIMO Ant0 2412



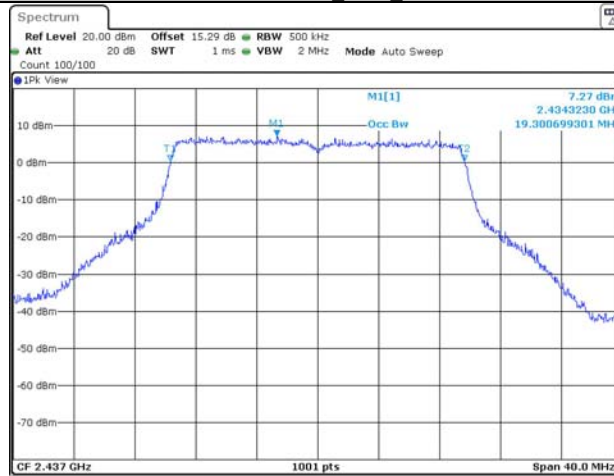
Date: 15.JUL.2021 13:24:11

11AX20MIMO Ant1 2437



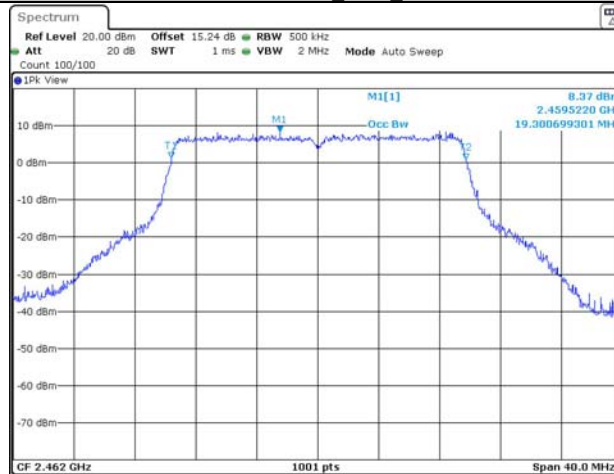
Date: 15.JUL.2021 13:25:50

11AX20MIMO Ant0 2437



Date: 15.JUL.2021 13:26:46

11AX20MIMO Ant1 2462



Date: 15.JUL.2021 13:28:47

11AX20MIMO Ant0 2462



Date: 15.JUL.2021 13:30:04

11AX40MIMO Ant1 2422

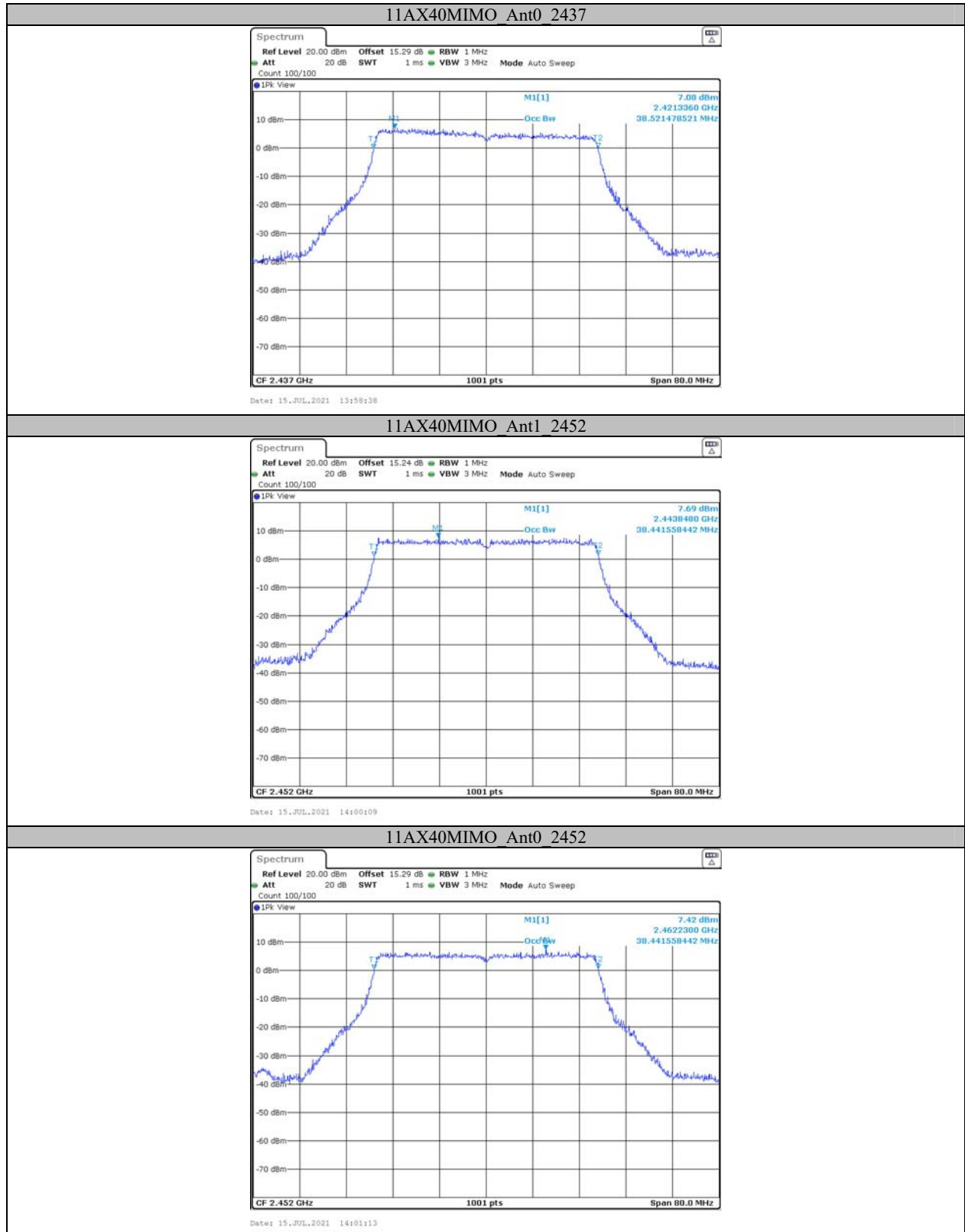


11AX40MIMO Ant0 2422



11AX40MIMO Ant1 2437





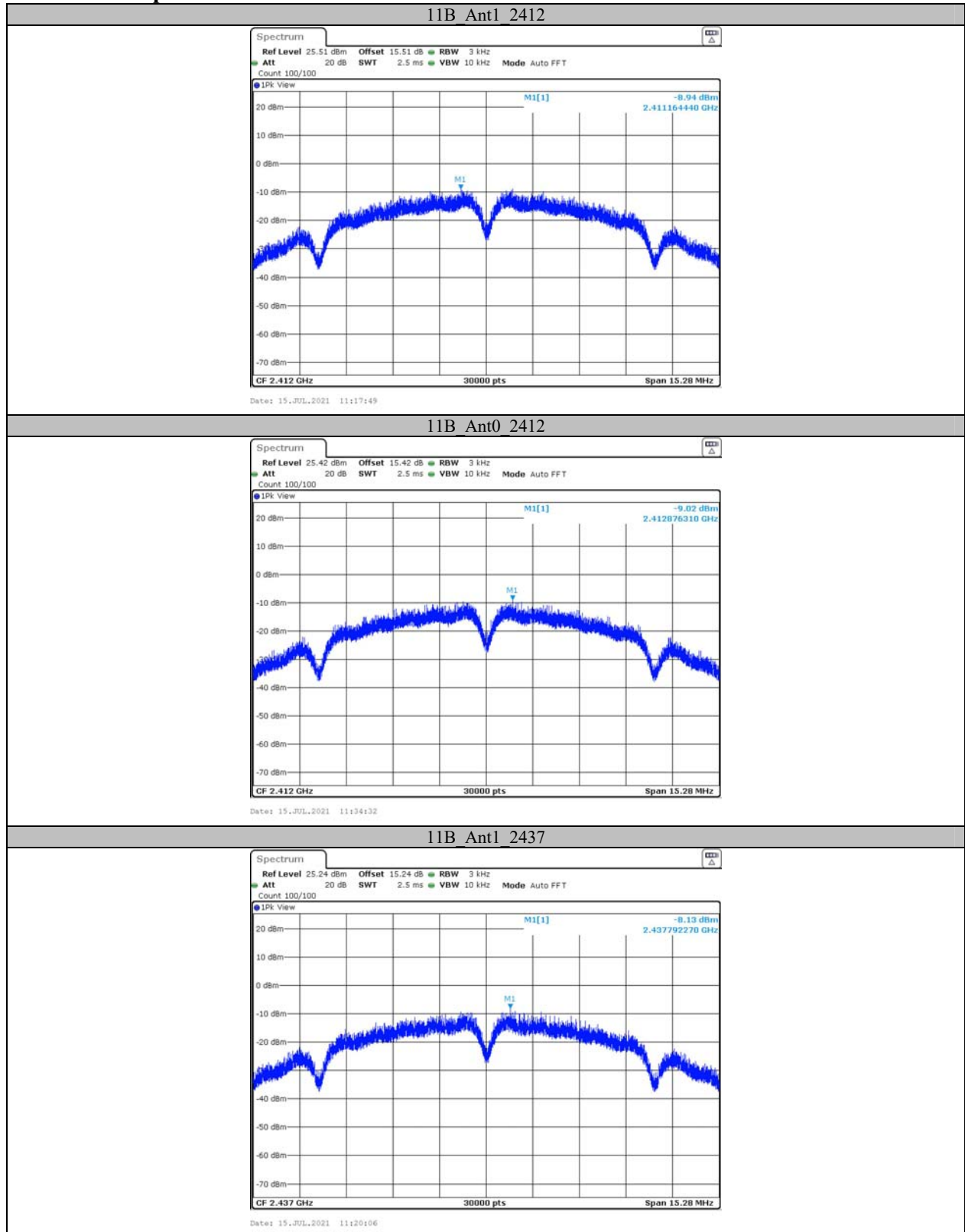
Appendix C: Maximum conducted output power Test Result

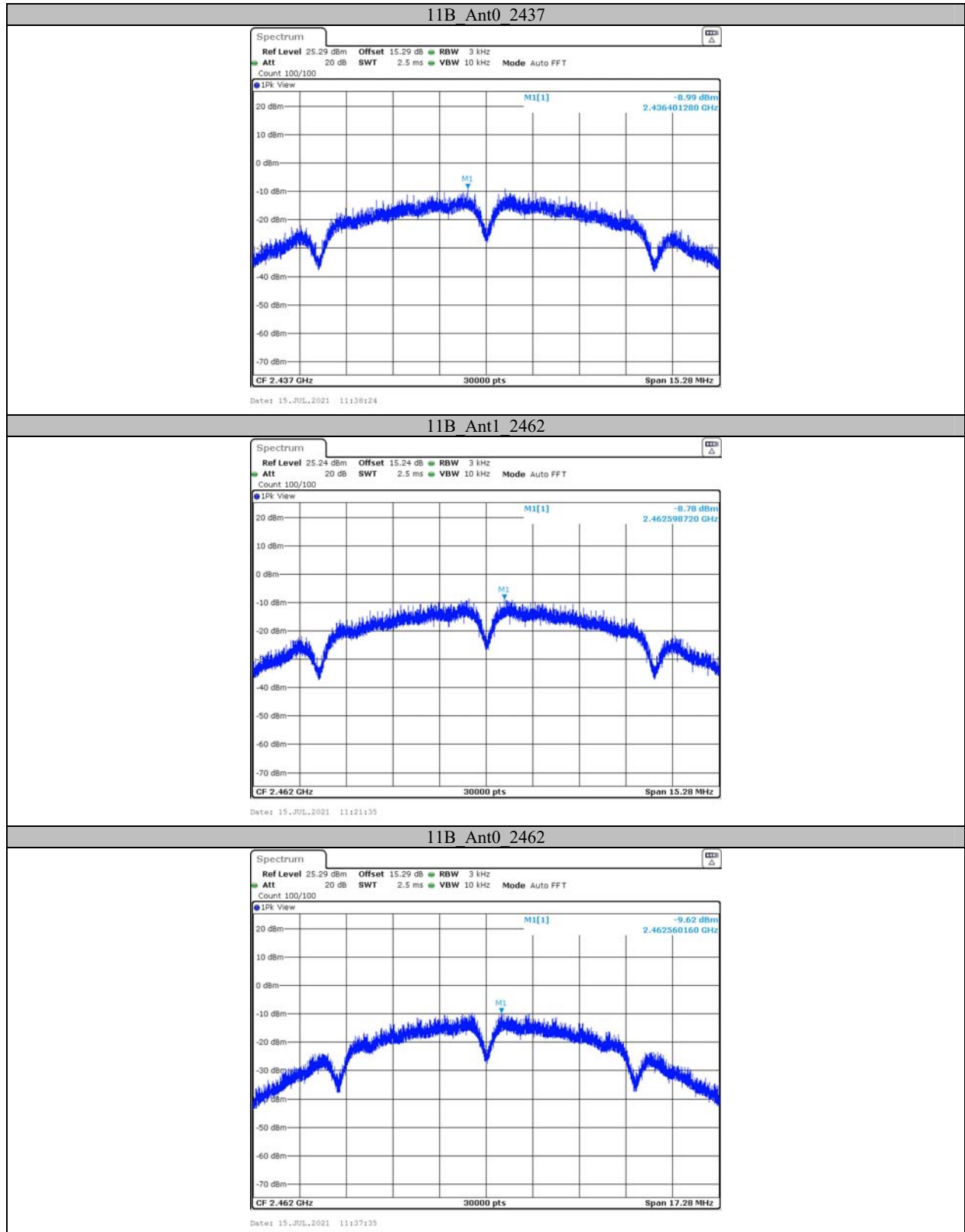
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.88	≤30	PASS
	Ant0	2412	17.66	≤30	PASS
	Ant1	2437	18.03	≤30	PASS
	Ant0	2437	17.52	≤30	PASS
	Ant1	2462	18.34	≤30	PASS
11G	Ant0	2462	17.77	≤30	PASS
	Ant1	2412	19.94	≤30	PASS
	Ant0	2412	19.59	≤30	PASS
	Ant1	2437	20.02	≤30	PASS
	Ant0	2437	19.61	≤30	PASS
11N20MIMO	Ant1	2462	19.39	≤30	PASS
	Ant0	2462	18.96	≤30	PASS
	Ant1	2412	19.21	≤30	PASS
	Ant0	2412	18.56	≤30	PASS
	total	2412	21.9	≤30	PASS
11N40MIMO	Ant1	2437	20.12	≤30	PASS
	Ant0	2437	18.39	≤30	PASS
	total	2437	22.4	≤30	PASS
	Ant1	2462	19.18	≤30	PASS
	Ant0	2462	18.94	≤30	PASS
11AX20MIMO	total	2462	22.1	≤30	PASS
	Ant1	2422	18.24	≤30	PASS
	Ant0	2422	17.76	≤30	PASS
	total	2422	21.0	≤30	PASS
	Ant1	2437	18.18	≤30	PASS
11AX40MIMO	Ant0	2437	18.15	≤30	PASS
	total	2437	21.2	≤30	PASS
	Ant1	2452	18.26	≤30	PASS
	Ant0	2452	17.77	≤30	PASS
	total	2452	21.0	≤30	PASS
11B	Ant1	2412	17.57	≤30	PASS
	Ant0	2412	17.42	≤30	PASS
	total	2412	20.5	≤30	PASS
	Ant1	2437	18.11	≤30	PASS
	Ant0	2437	17.62	≤30	PASS
11G	total	2437	20.9	≤30	PASS
	Ant1	2462	18.73	≤30	PASS
	Ant0	2462	17.92	≤30	PASS
	total	2462	21.4	≤30	PASS
	Ant1	2422	15.90	≤30	PASS
11N20MIMO	Ant0	2422	15.56	≤30	PASS
	total	2422	18.7	≤30	PASS
	Ant1	2437	16.11	≤30	PASS
	Ant0	2437	15.61	≤30	PASS
	total	2437	18.9	≤30	PASS
11N40MIMO	Ant1	2452	16.42	≤30	PASS
	Ant0	2452	16.00	≤30	PASS
	total	2452	19.2	≤30	PASS

Appendix D: Maximum power spectral density Test Result

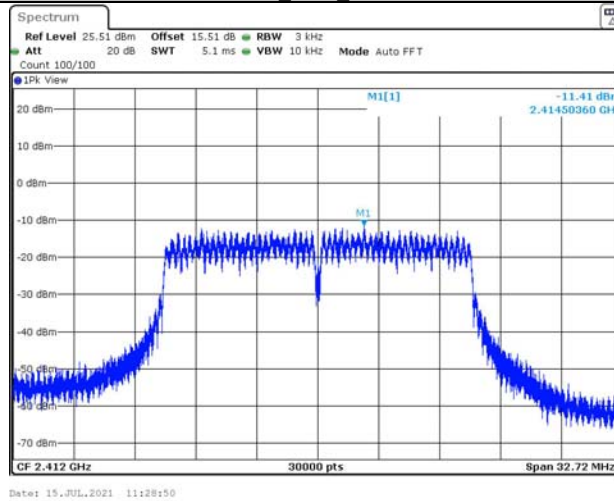
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.94	≤8	PASS
	Ant0	2412	-9.02	≤8	PASS
	Ant1	2437	-8.13	≤8	PASS
	Ant0	2437	-8.99	≤8	PASS
	Ant1	2462	-8.78	≤8	PASS
	Ant0	2462	-9.62	≤8	PASS
11G	Ant1	2412	-11.41	≤8	PASS
	Ant0	2412	-11.36	≤8	PASS
	Ant1	2437	-11.77	≤8	PASS
	Ant0	2437	-11.83	≤8	PASS
	Ant1	2462	-12.21	≤8	PASS
	Ant0	2462	-13.19	≤8	PASS
11N20MIMO	Ant1	2412	-10.61	≤8	PASS
	Ant0	2412	-11.39	≤8	PASS
	total	2412	-7.97	≤8	PASS
	Ant1	2437	-11.79	≤8	PASS
	Ant0	2437	-11.69	≤8	PASS
	total	2437	-8.73	≤8	PASS
	Ant1	2462	-10.49	≤8	PASS
	Ant0	2462	-10.67	≤8	PASS
11N40MIMO	total	2462	-7.57	≤8	PASS
	Ant1	2422	-13.88	≤8	PASS
	Ant0	2422	-14.38	≤8	PASS
	total	2422	-11.11	≤8	PASS
	Ant1	2437	-14.23	≤8	PASS
	Ant0	2437	-14.24	≤8	PASS
	total	2437	-11.22	≤8	PASS
	Ant1	2452	-14.25	≤8	PASS
11AX20MIMO	Ant0	2452	-14.16	≤8	PASS
	total	2452	-11.19	≤8	PASS
	Ant1	2412	-14.16	≤8	PASS
	Ant0	2412	-15.27	≤8	PASS
	total	2412	-11.67	≤8	PASS
	Ant1	2437	-13.96	≤8	PASS
	Ant0	2437	-15.24	≤8	PASS
	total	2437	-11.54	≤8	PASS
11AX40MIMO	Ant1	2462	-13.68	≤8	PASS
	Ant0	2462	-14.22	≤8	PASS
	total	2462	-10.93	≤8	PASS
	Ant1	2422	-18.05	≤8	PASS
	Ant0	2422	-18.35	≤8	PASS
	total	2422	-15.19	≤8	PASS
	Ant1	2437	-17.94	≤8	PASS
	Ant0	2437	-18.52	≤8	PASS
	total	2437	-15.21	≤8	PASS
	Ant1	2452	-17.86	≤8	PASS
	Ant0	2452	-18.47	≤8	PASS
	total	2452	-15.14	≤8	PASS

Test Graphs

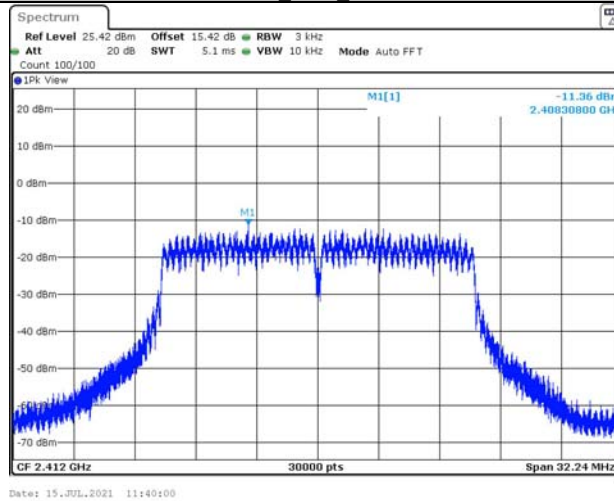




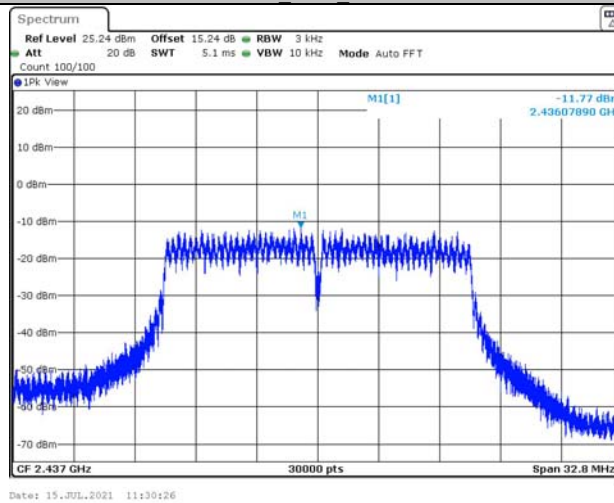
11G Ant1 2412



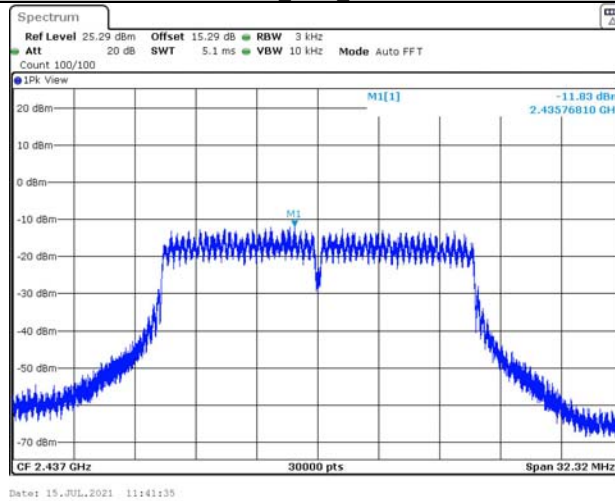
11G Ant0 2412



11G Ant1 2437

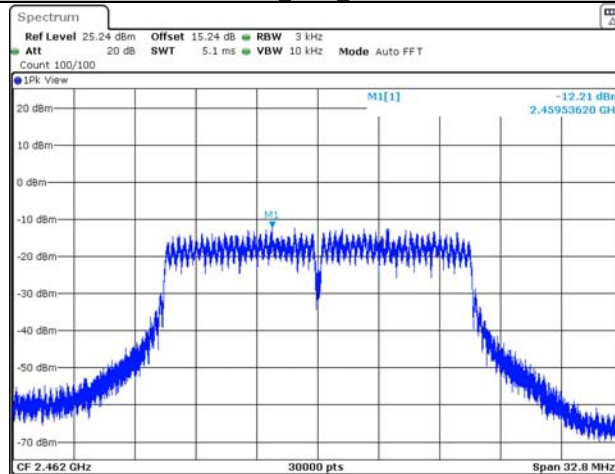


11G_Ant0_2437



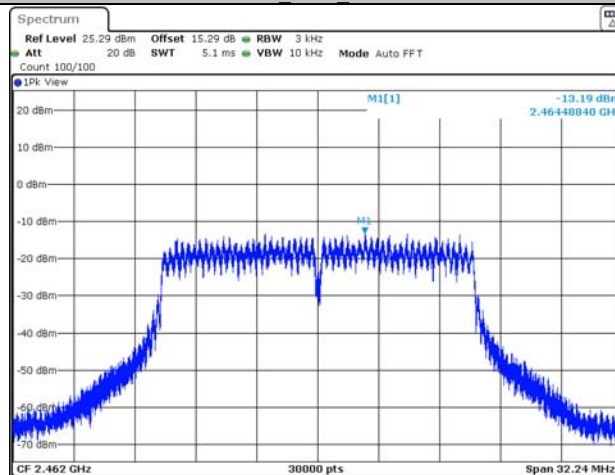
Date: 15.JUL.2021 11:41:35

11G_Ant1_2462



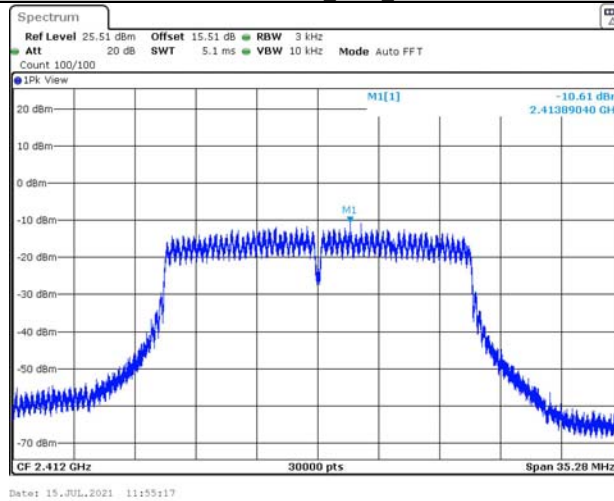
Date: 15.JUL.2021 11:32:15

11G_Ant0_2462

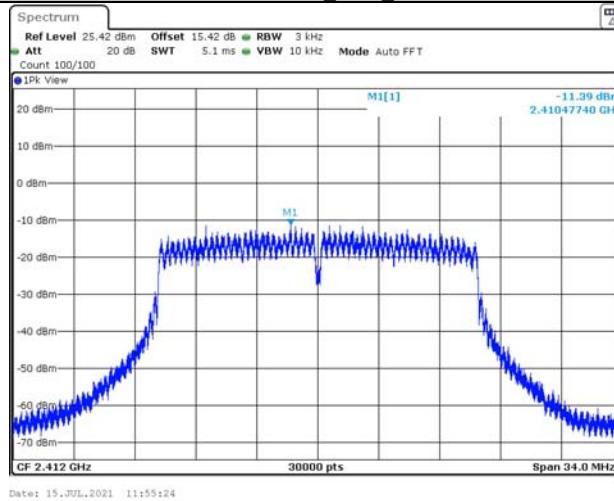


Date: 15.JUL.2021 11:43:01

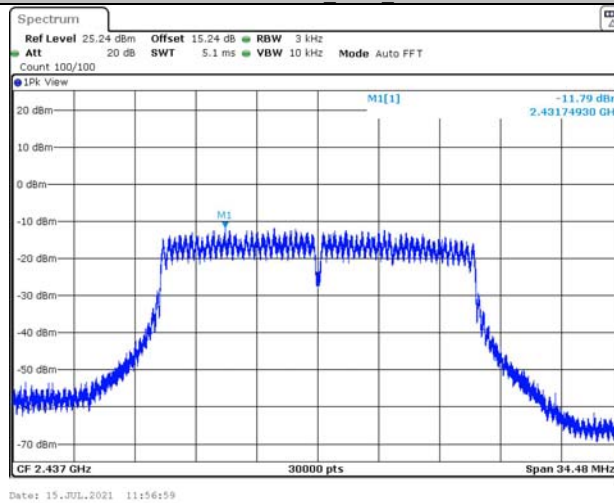
11N20MIMO Ant1 2412



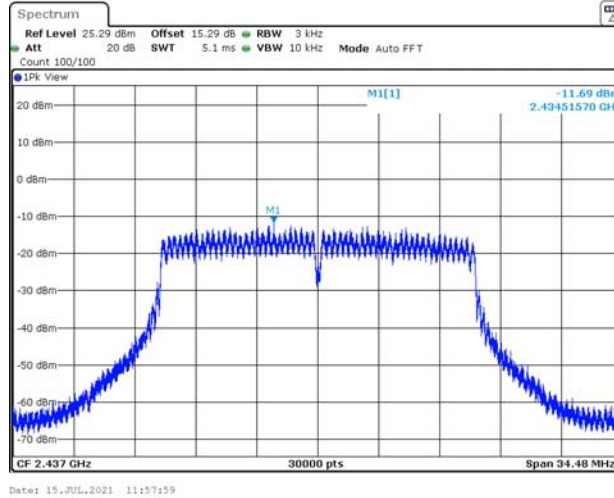
11N20MIMO Ant0 2412



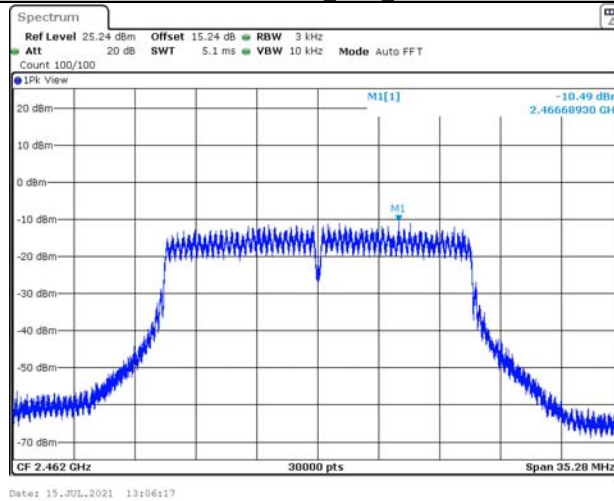
11N20MIMO Ant1 2437



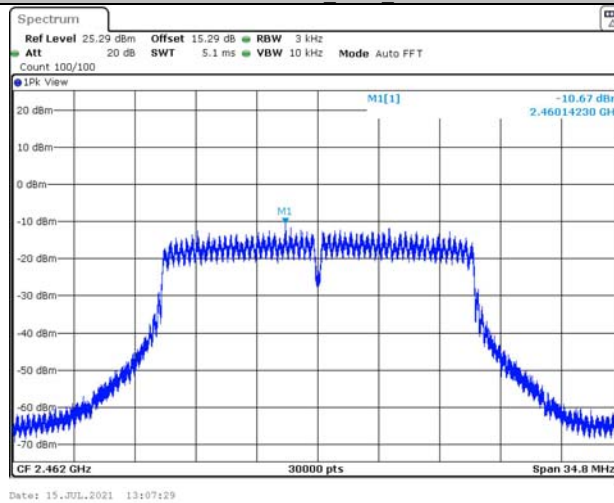
11N20MIMO Ant0 2437



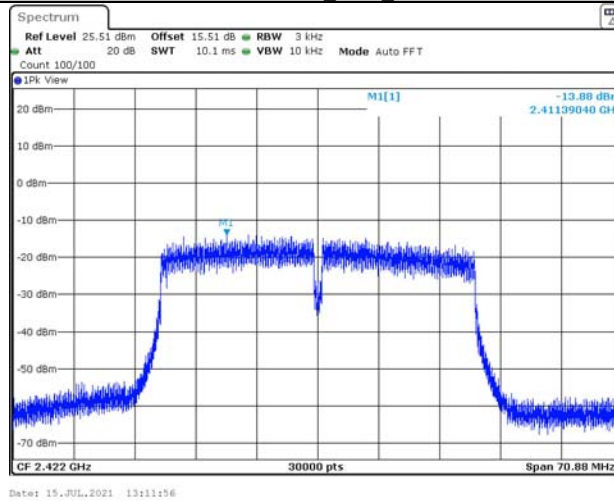
11N20MIMO Ant1 2462



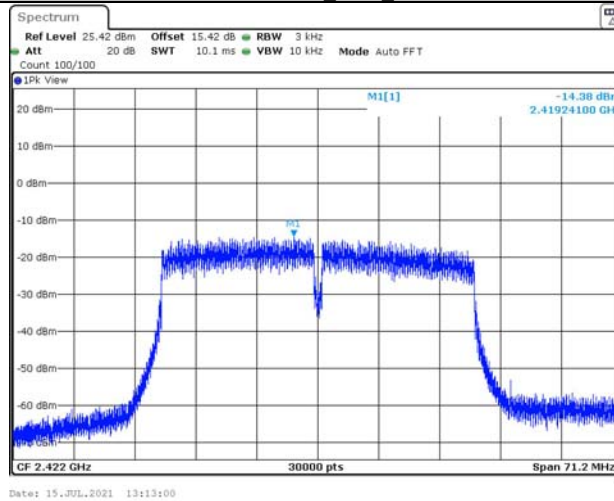
11N20MIMO Ant0 2462



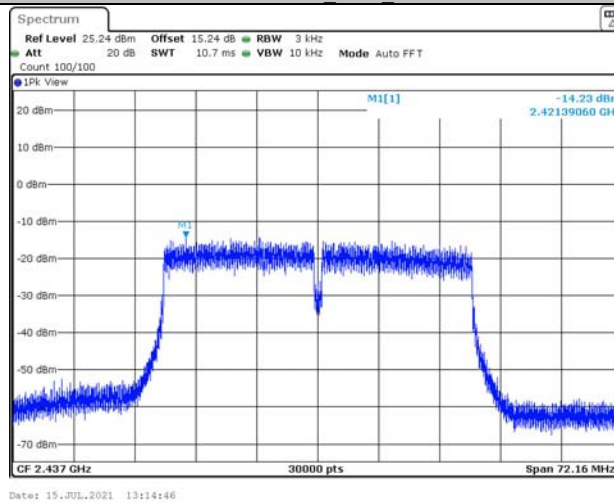
11N40MIMO Ant1 2422



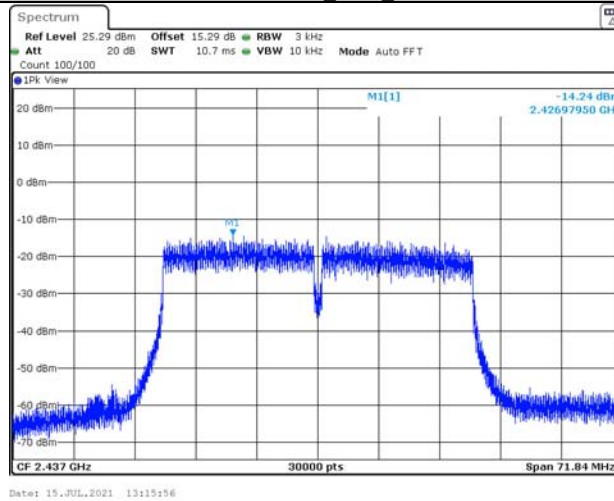
11N40MIMO Ant0 2422



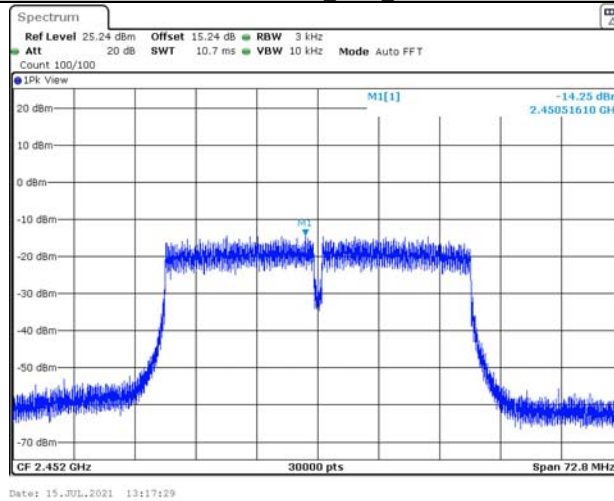
11N40MIMO Ant1 2437



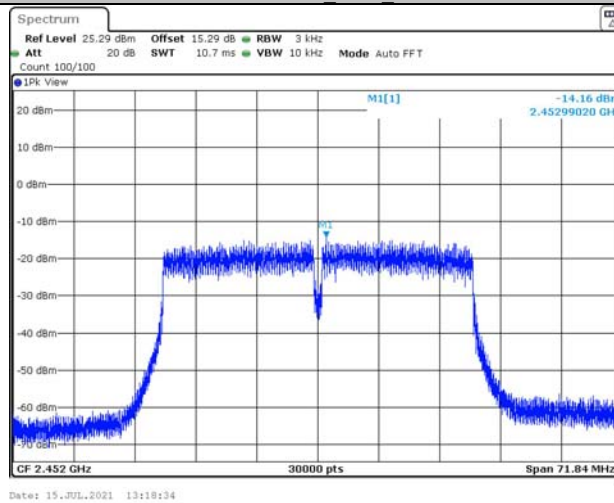
11N40MIMO Ant0 2437



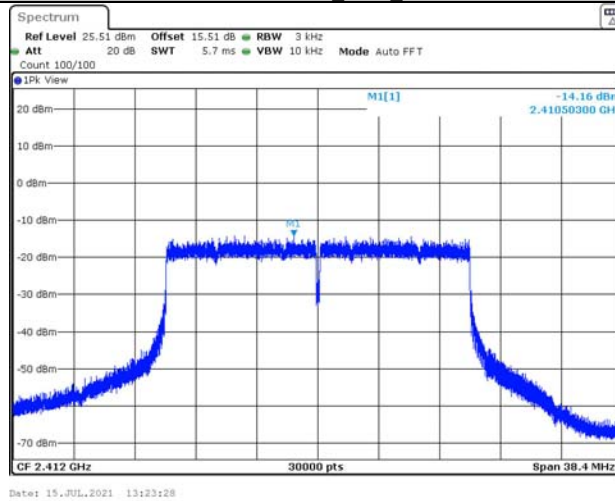
11N40MIMO Ant1 2452



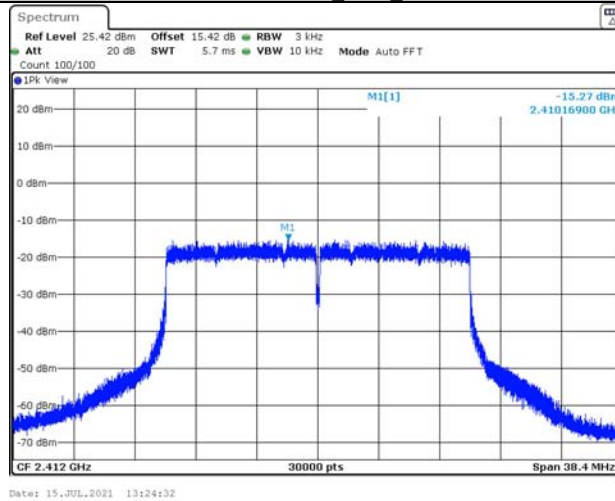
11N40MIMO Ant0 2452



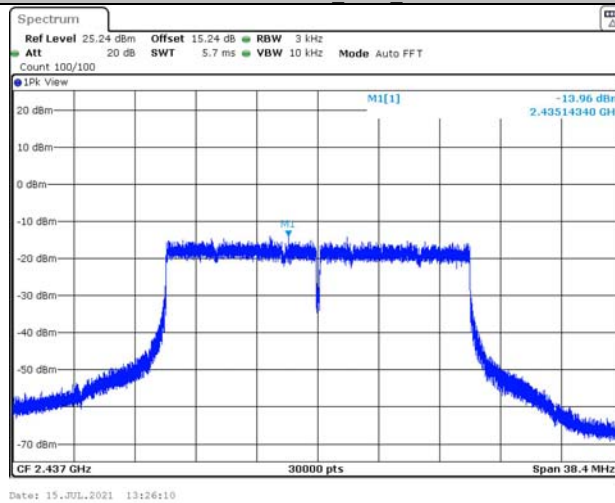
11AX20MIMO Ant1 2412



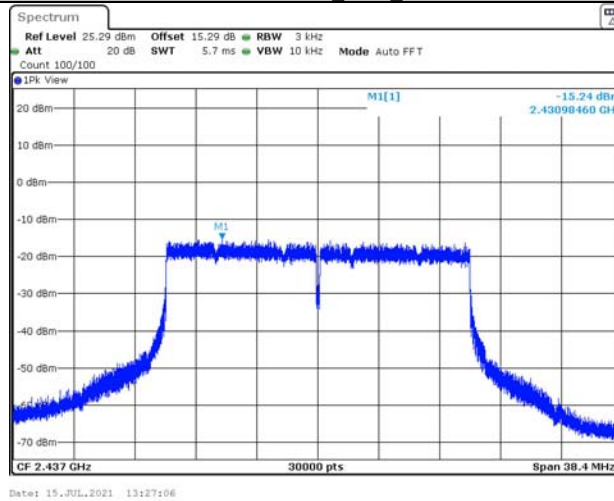
11AX20MIMO Ant0 2412



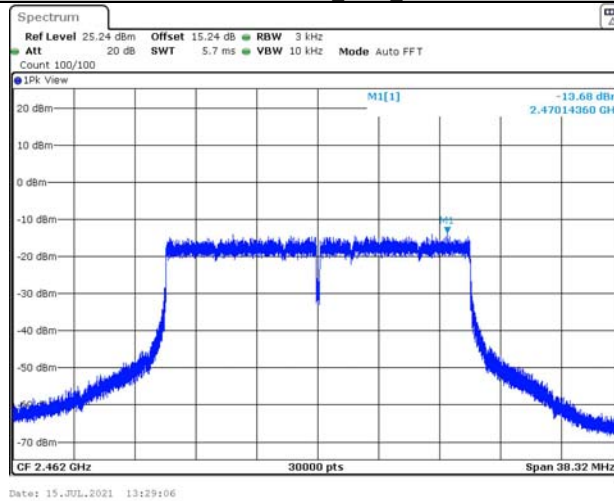
11AX20MIMO Ant1 2437



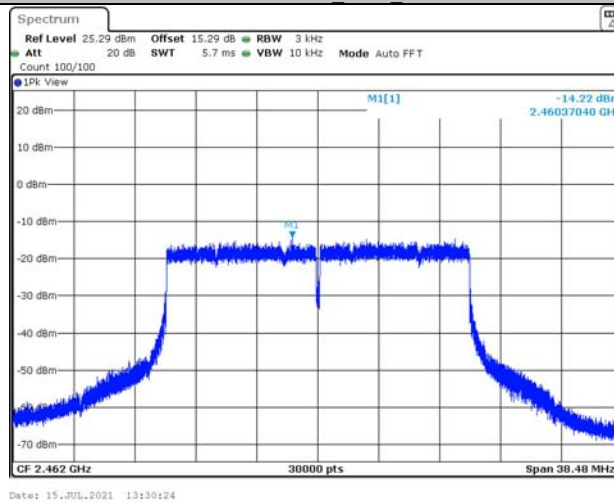
11AX20MIMO Ant0 2437



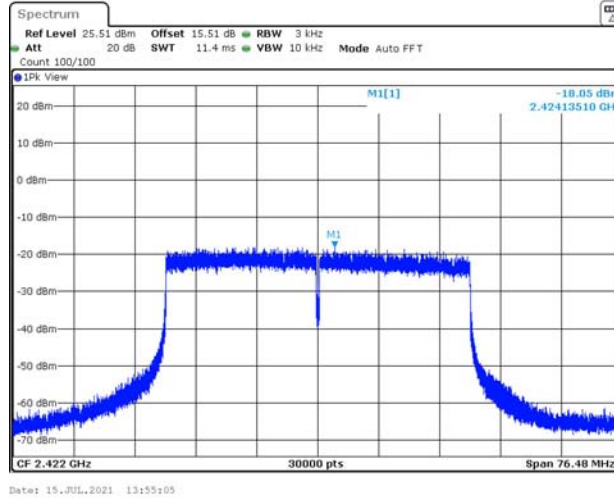
11AX20MIMO Ant1 2462



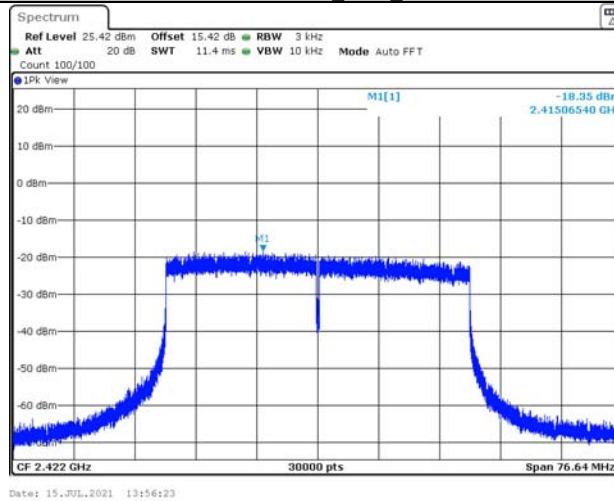
11AX20MIMO Ant0 2462



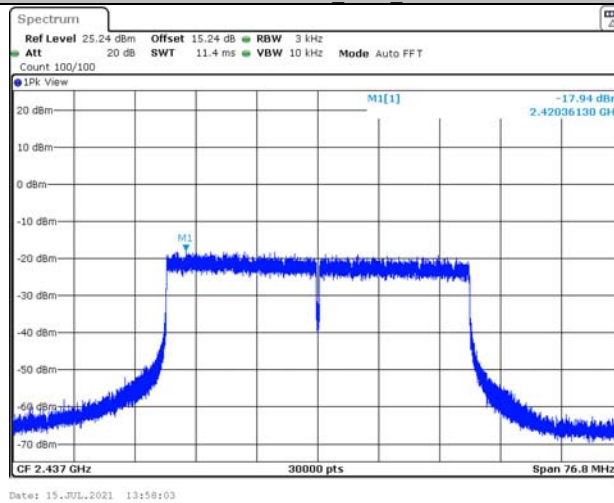
11AX40MIMO Ant1 2422



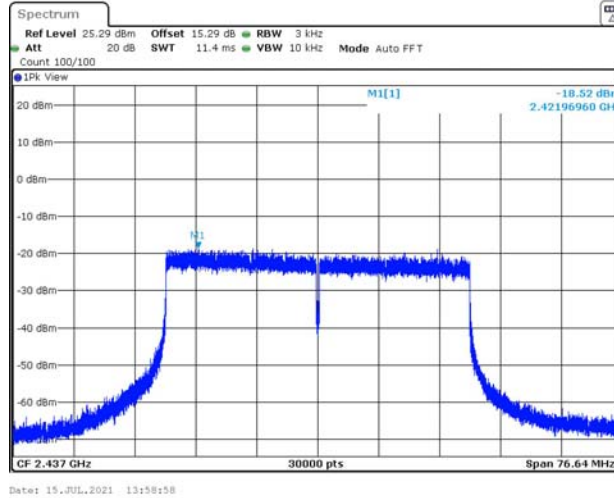
11AX40MIMO Ant0 2422



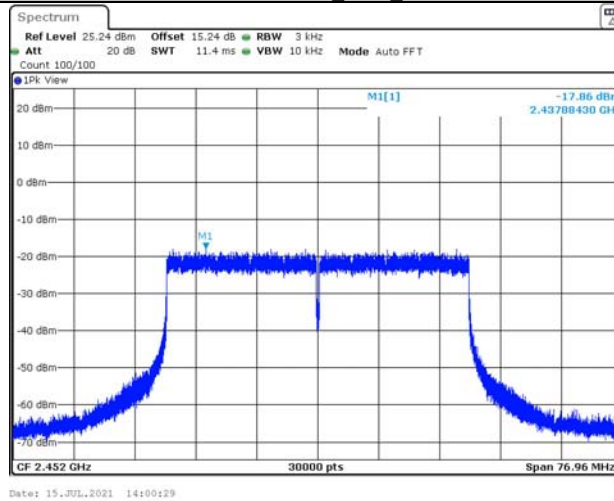
11AX40MIMO Ant1 2437



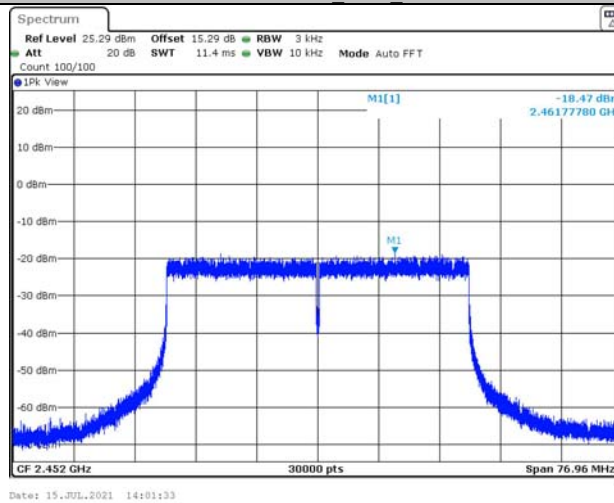
11AX40MIMO Ant0 2437



11AX40MIMO Ant1 2452



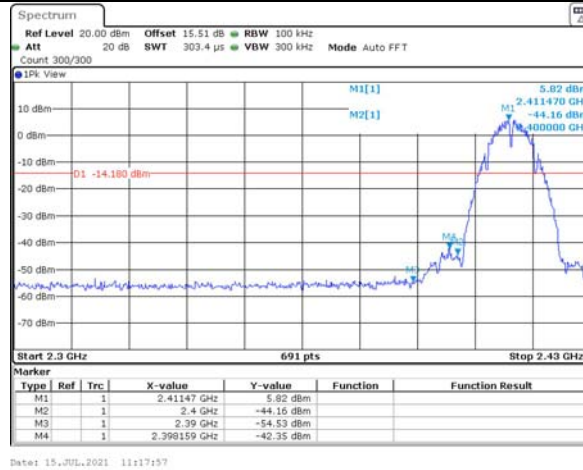
11AX40MIMO Ant0 2452



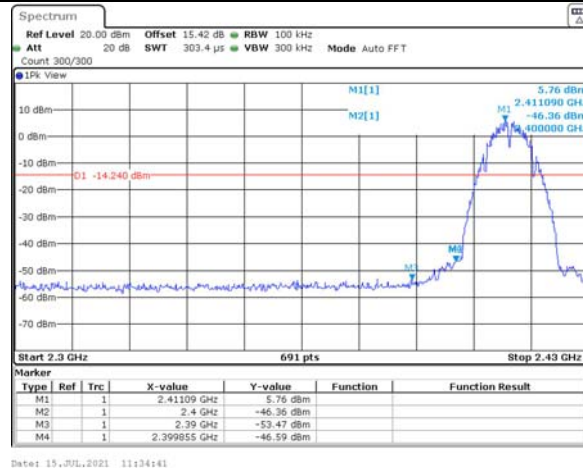
Appendix E: Band edge measurements

Test Graphs

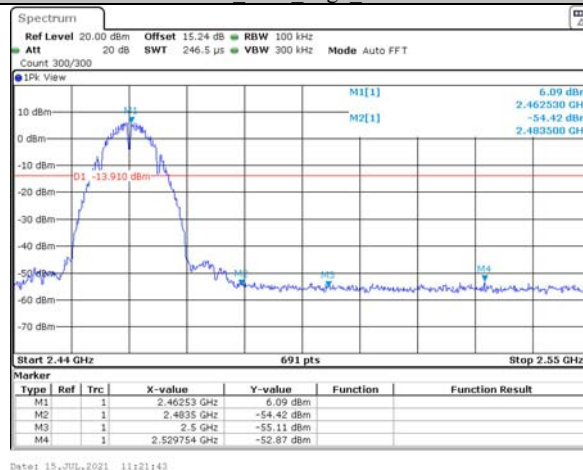
11B_Ant1_Low_2412



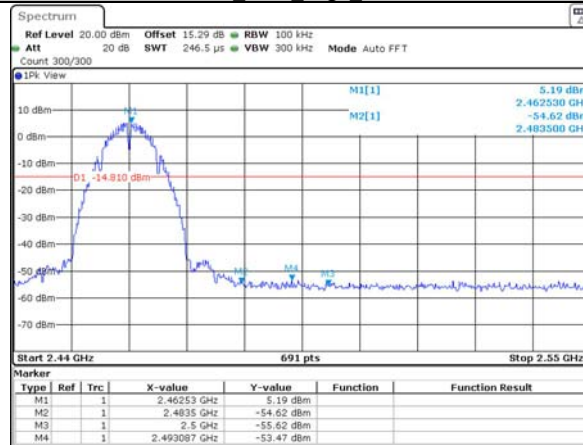
11B_Ant0_Low_2412



11B_Ant1_High_2462

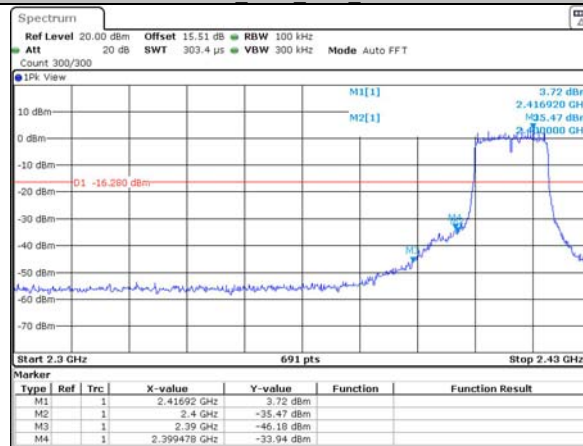


11B Ant0 High 2462



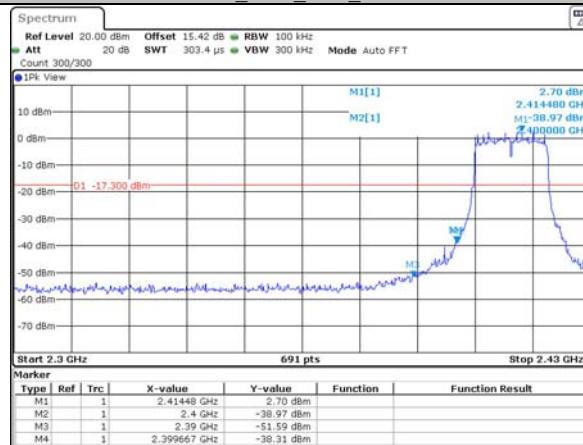
Date: 15.JUL.2021 11:37:43

11G Ant1 Low 2412



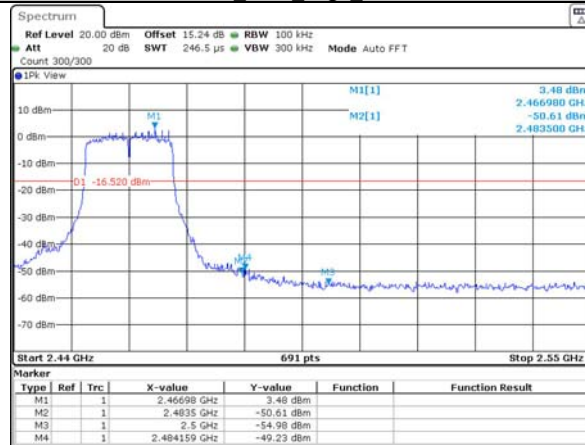
Date: 15.JUL.2021 11:28:59

11G Ant0 Low 2412



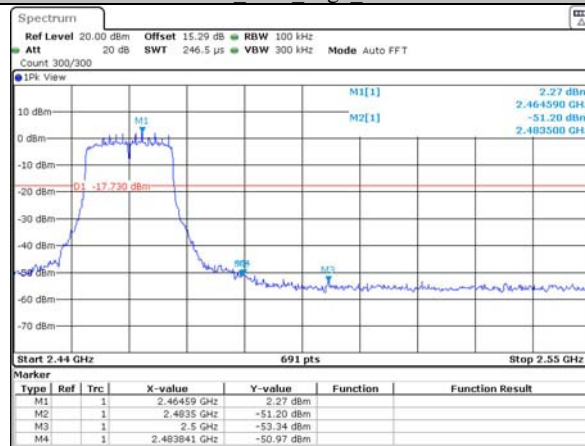
Date: 15.JUL.2021 11:40:08

11G Ant1 High 2462



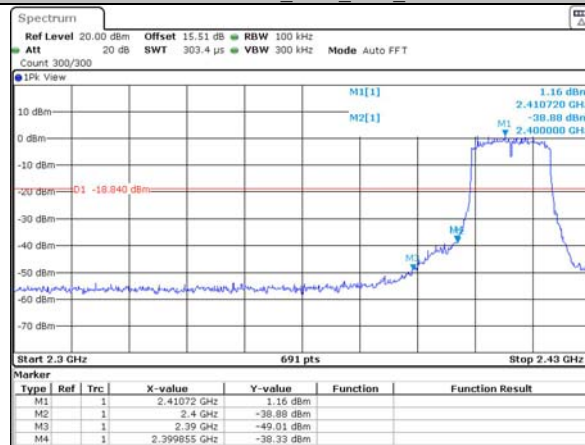
Date: 15.JUL.2021 11:32:23

11G Ant0 High 2462



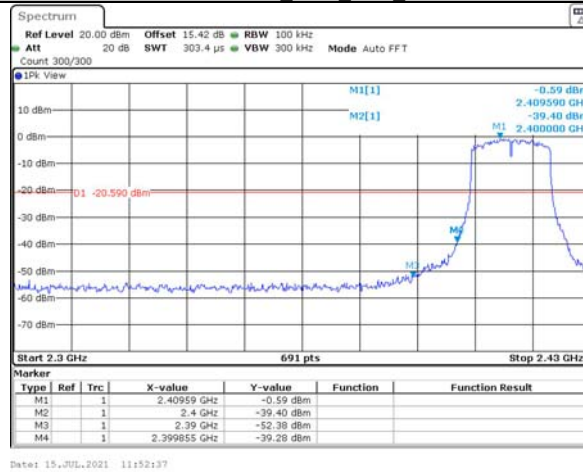
Date: 15.JUL.2021 11:43:10

11N20MIMO Ant1 Low 2412

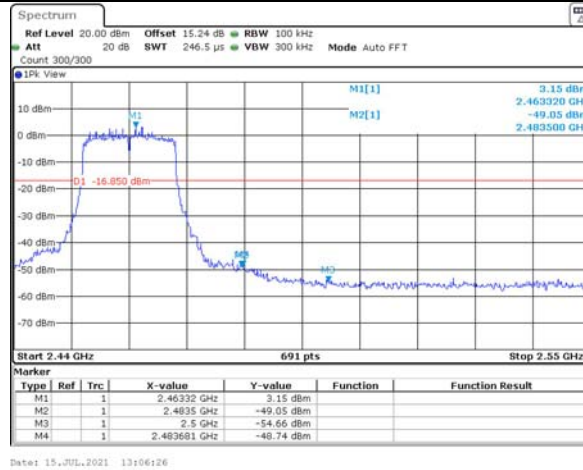


Date: 15.JUL.2021 11:51:24

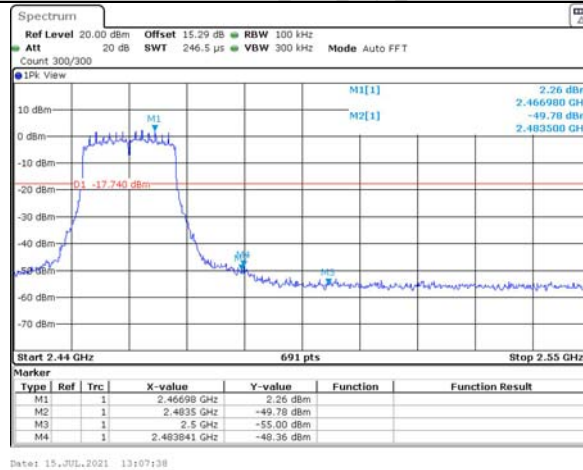
11N20MIMO Ant0 Low 2412



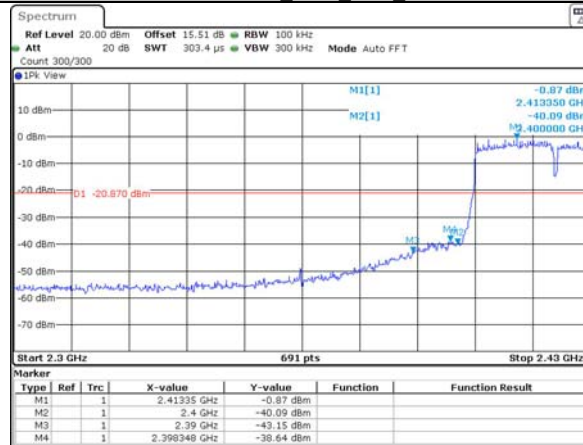
11N20MIMO Ant1 High 2462



11N20MIMO Ant0 High 2462

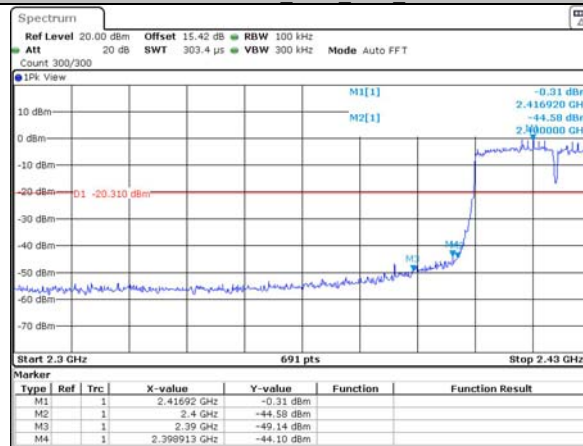


11N40MIMO Ant1 Low 2422



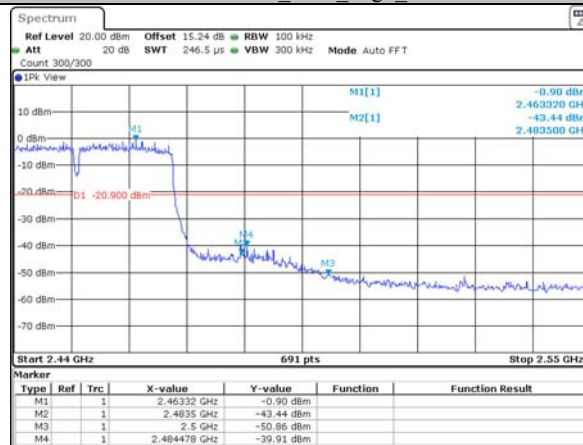
Date: 15.JUL.2021 13:12:04

11N40MIMO Ant0 Low 2422



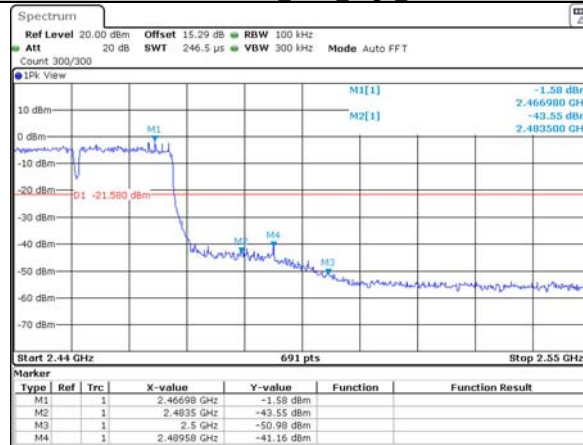
Date: 15.JUL.2021 13:13:09

11N40MIMO Ant1 High 2452



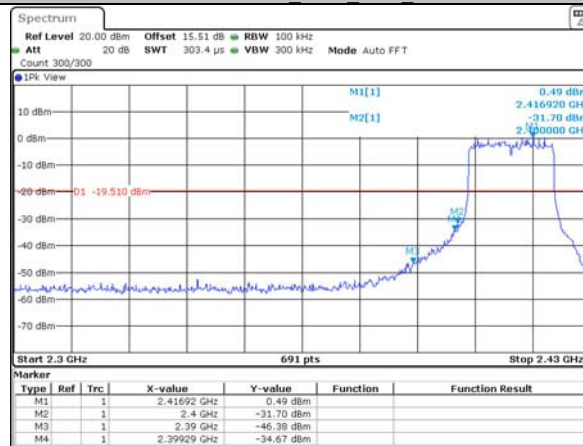
Date: 15.JUL.2021 13:17:38

11N40MIMO Ant0 High 2452



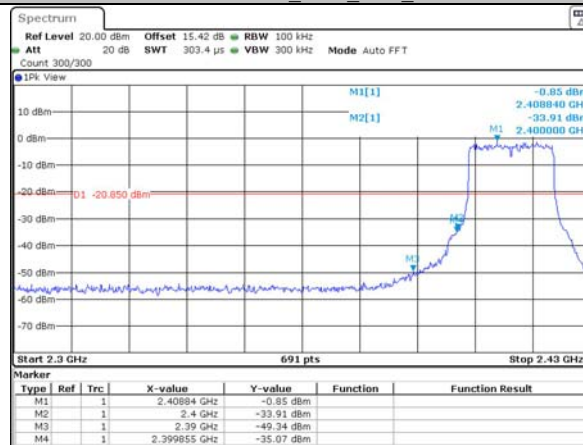
Date: 15.JUL.2021 13:18:42

11AX20MIMO Ant1 Low 2412



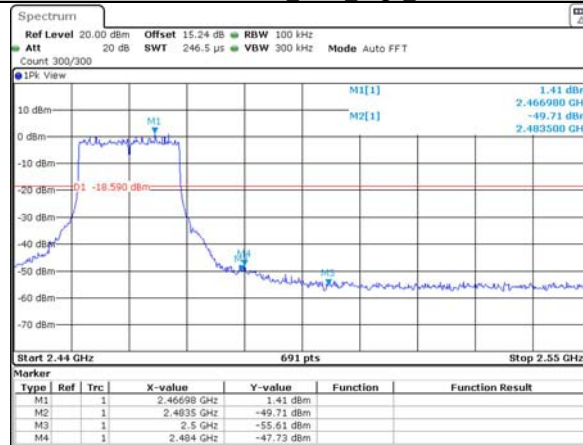
Date: 15.JUL.2021 13:23:36

11AX20MIMO Ant0 Low 2412



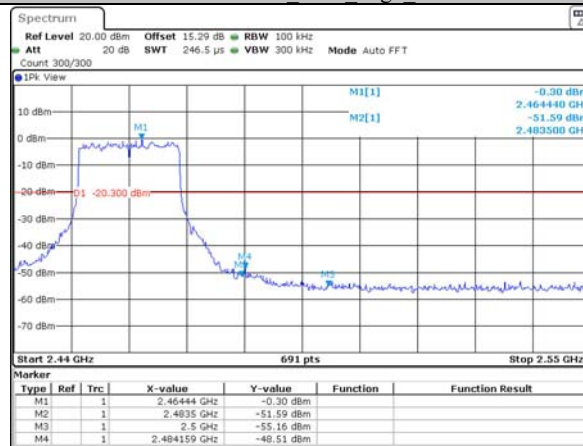
Date: 15.JUL.2021 13:24:40

11AX20MIMO Ant1 High 2462



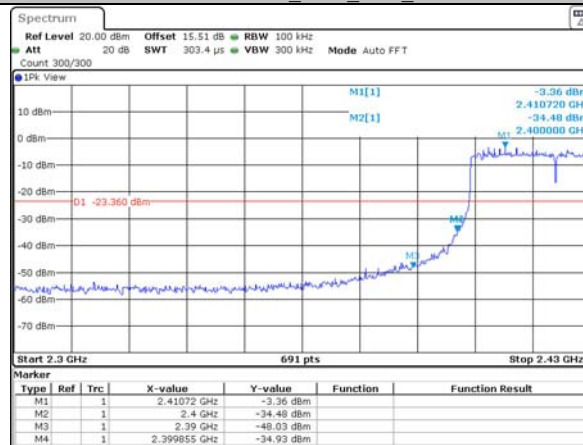
Date: 15.JUL.2021 13:29:15

11AX20MIMO Ant0 High 2462

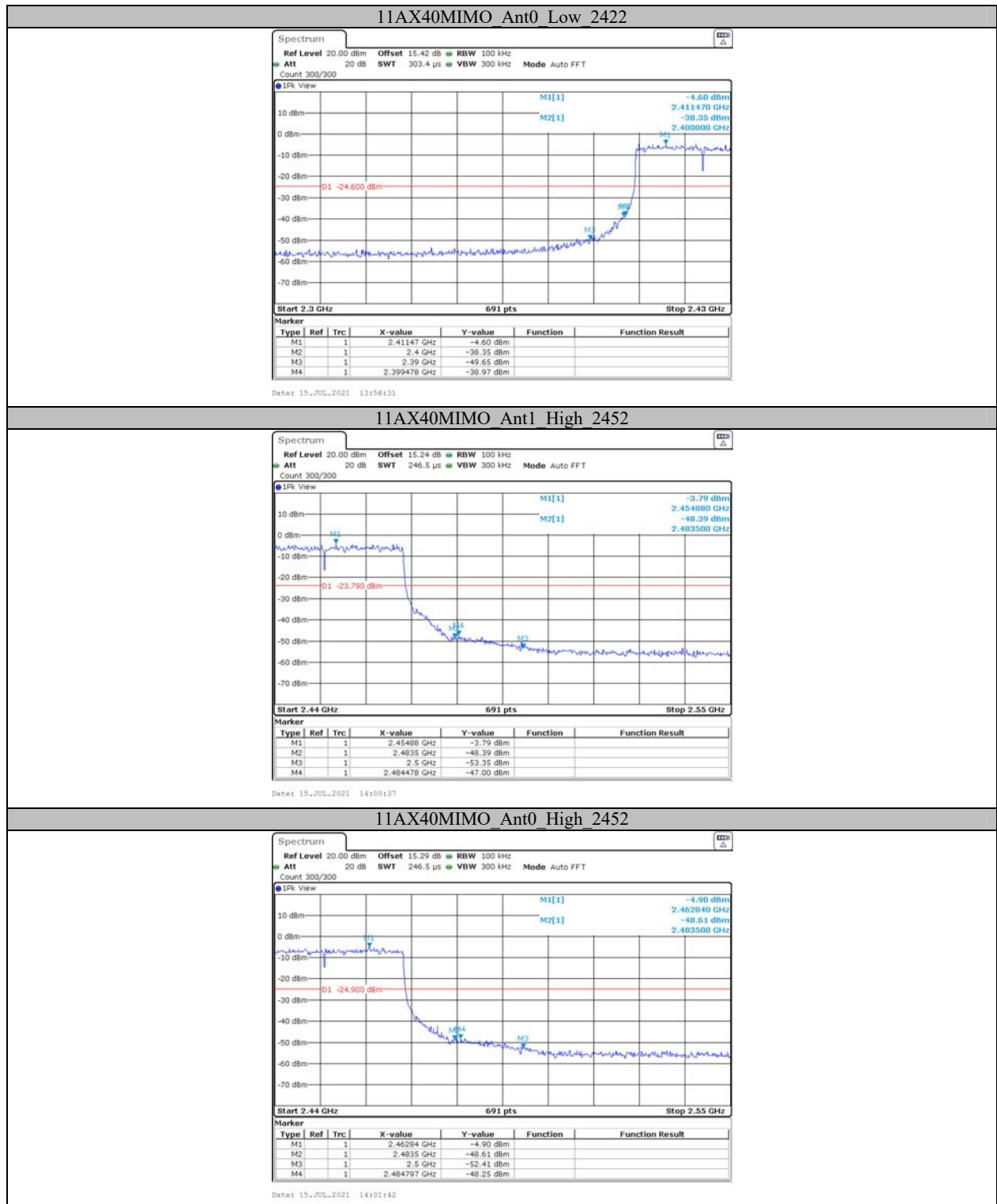


Date: 15.JUL.2021 13:30:32

11AX40MIMO Ant1 Low 2422



Date: 15.JUL.2021 13:55:13

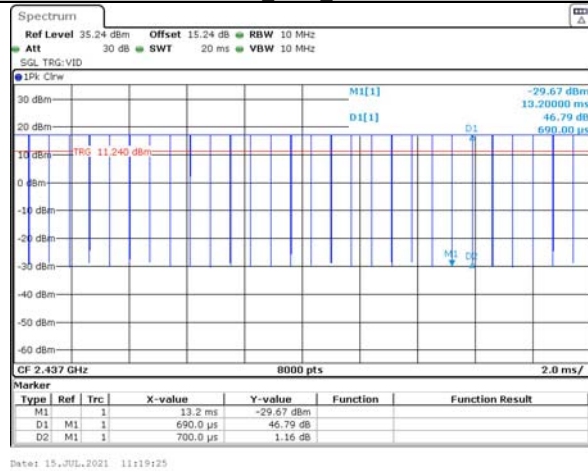


**Appendix F: Duty Cycle
Test Result**

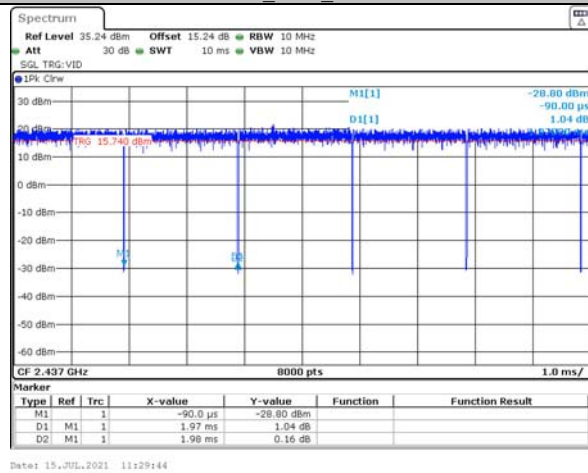
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2437	0.69	0.70	98.57
11G	Ant1	2437	1.97	1.98	99.49
11N20MIMO	Ant1	2437	5.40	5.42	99.63
11N40MIMO	Ant1	2437	5.39	5.41	99.63
11AX20MIMO	Ant1	2437	5.42	5.44	99.63
11AX40MIMO	Ant1	2437	5.42	5.43	99.82

Test Graphs

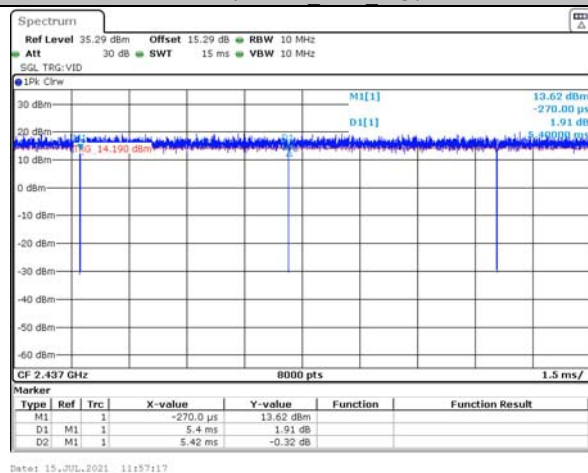
11B Ant1 2437



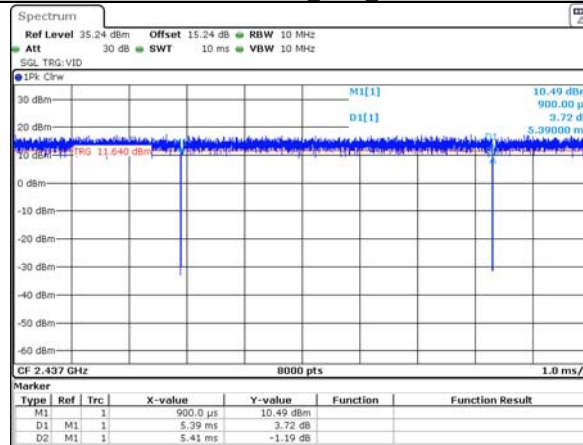
11G Ant1 2437



11N20MIMO Ant1 2437

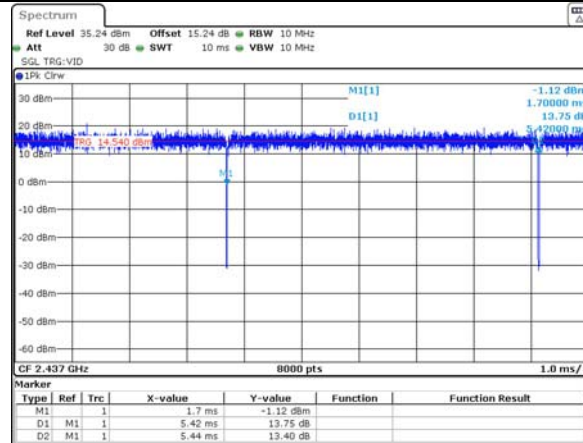


11N40MIMO_Ant1_2437



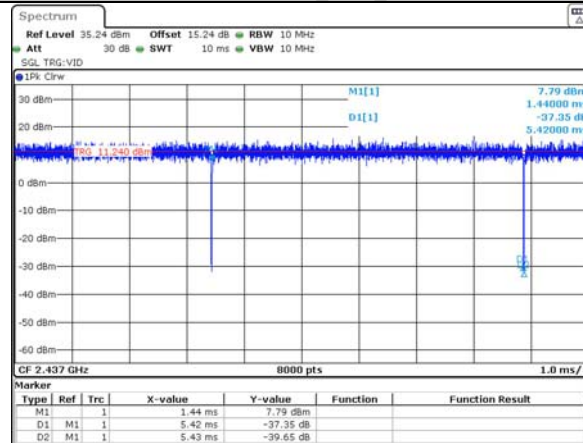
Date: 15_JUL_2021 13:14:04

11AX20MIMO_Ant1_2437



Date: 15_JUL_2021 13:12:29

11AX40MIMO_Ant1_2437



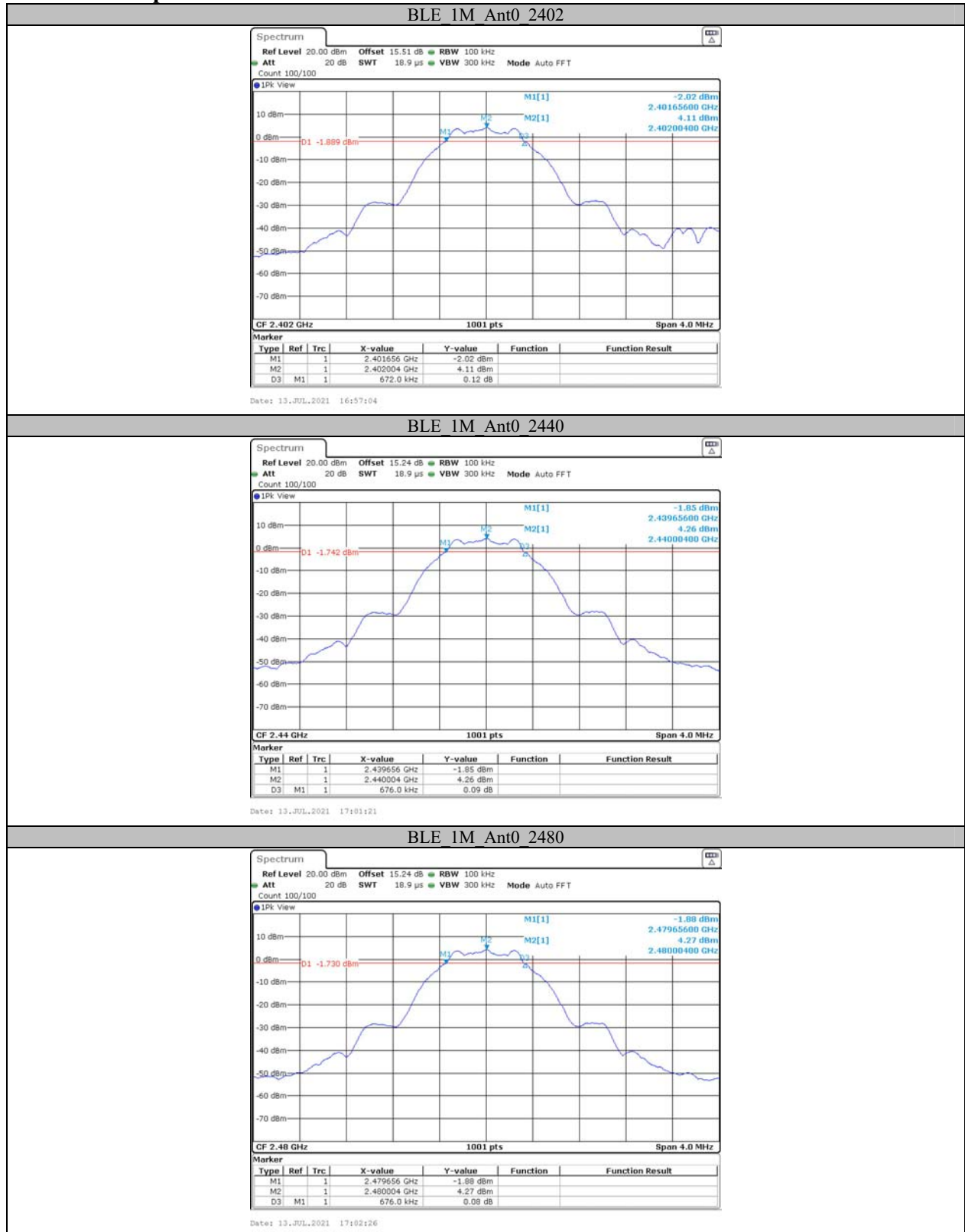
Date: 15_JUL_2021 13:15:21

APPENDIX BLE

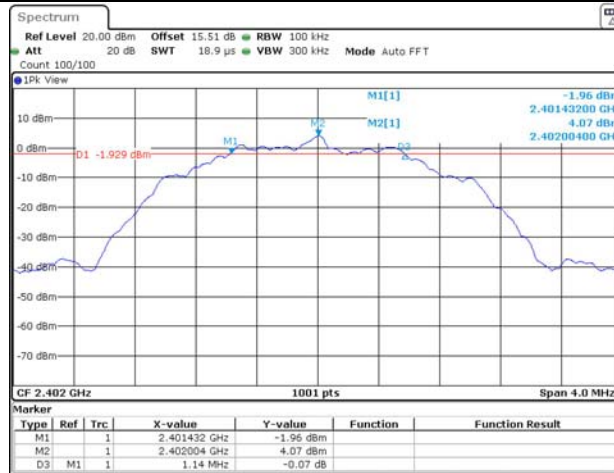
Appendix A: DTS Bandwidth Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant0	2402	0.672	0.5	PASS
		2440	0.676	0.5	PASS
		2480	0.676	0.5	PASS
BLE_2M	Ant0	2402	1.140	0.5	PASS
		2440	1.140	0.5	PASS
		2480	1.140	0.5	PASS

Test Graphs

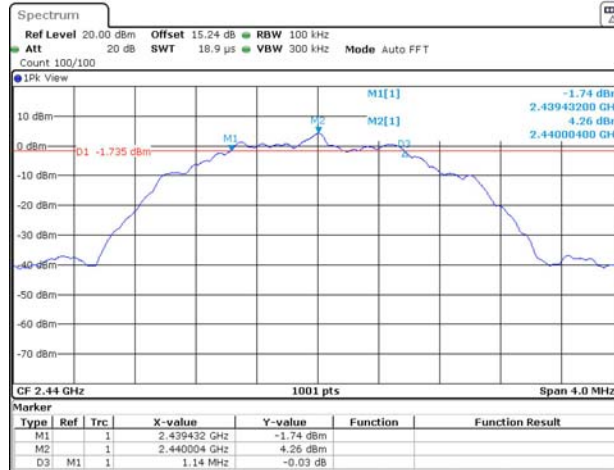


BLE 2M Ant0 2402



Date: 13.JUL.2021 17:03:45

BLE 2M Ant0 2440



Date: 13.JUL.2021 17:05:10

BLE 2M Ant0 2480

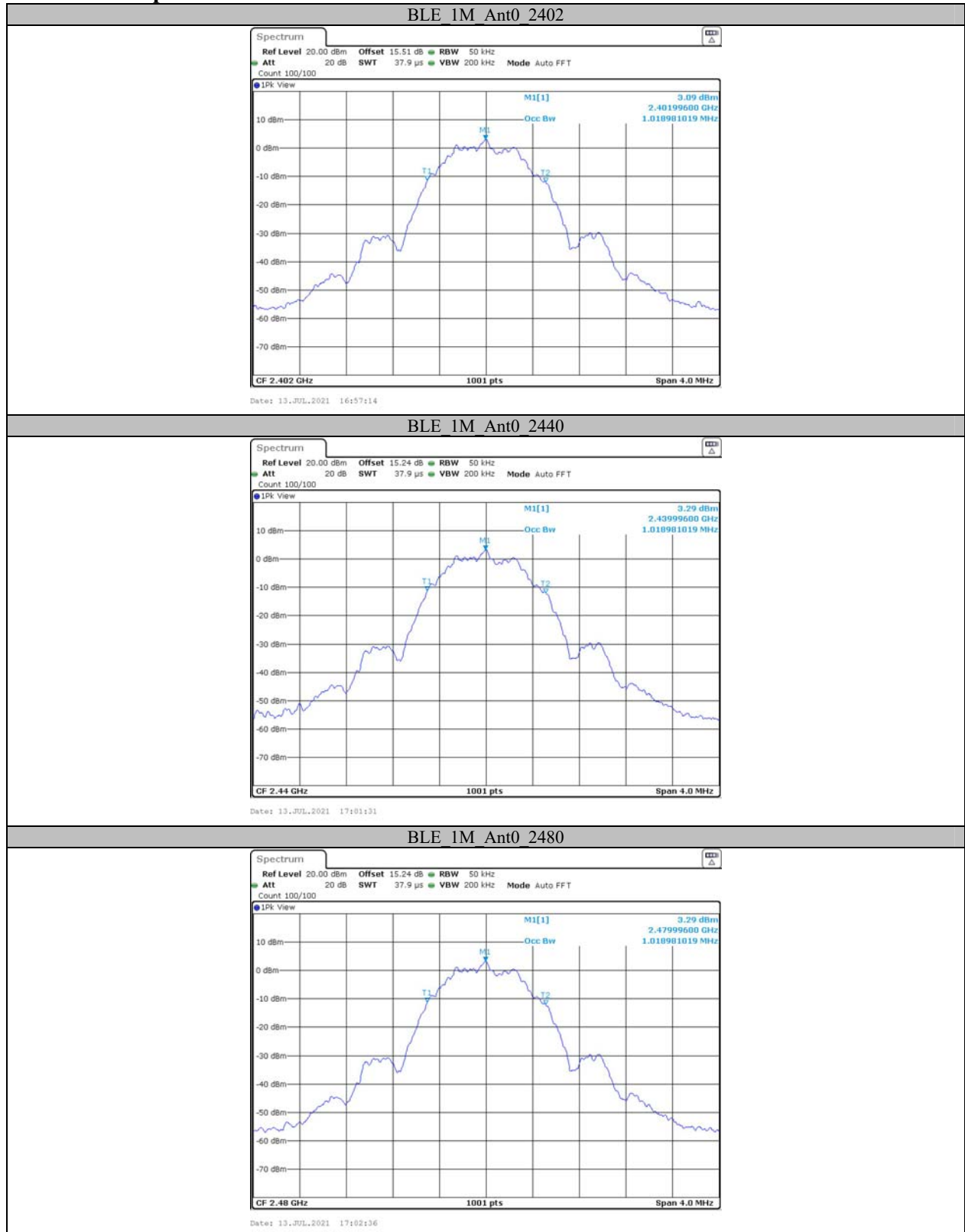


Date: 13.JUL.2021 17:06:31

**Appendix B: Occupied Channel Bandwidth
Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant0	2402	1.019	---	PASS
		2440	1.019	---	PASS
		2480	1.019	---	PASS
BLE_2M	Ant0	2402	2.006	---	PASS
		2440	2.006	---	PASS
		2480	2.006	---	PASS

Test Graphs



BLE 2M Ant0 2402



BLE 2M Ant0 2440



BLE 2M Ant0 2480



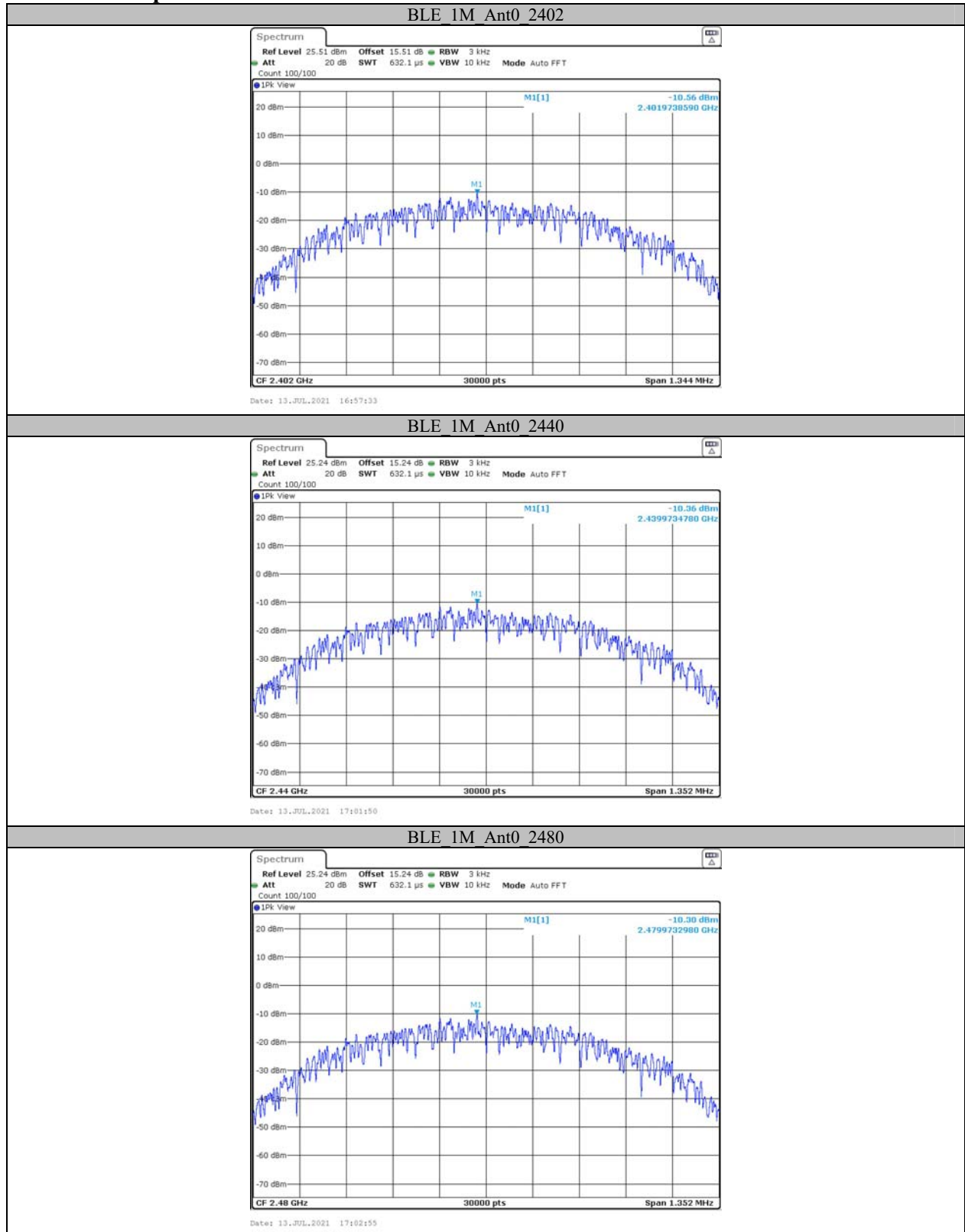
**Appendix C: Maximum conducted Peak output power
Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant0	2402	5.15	≤30	PASS
		2440	5.67	≤30	PASS
		2480	5.67	≤30	PASS
BLE_2M	Ant0	2402	5.30	≤30	PASS
		2440	5.77	≤30	PASS
		2480	5.77	≤30	PASS

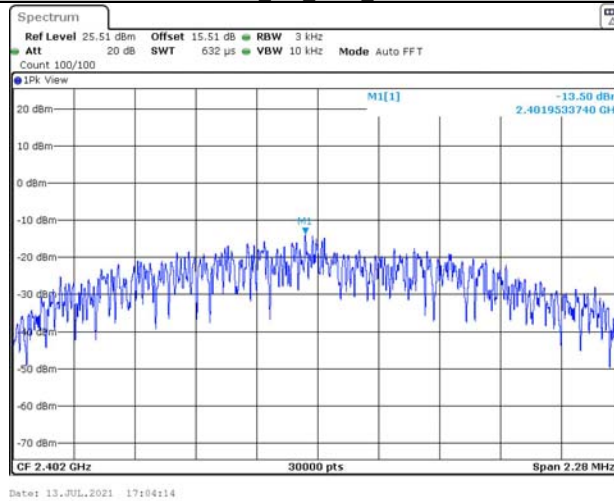
**Appendix D: Maximum power spectral density
Test Result**

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant0	2402	-10.56	≤8	PASS
		2440	-10.36	≤8	PASS
		2480	-10.30	≤8	PASS
BLE_2M	Ant0	2402	-13.50	≤8	PASS
		2440	-13.27	≤8	PASS
		2480	-13.14	≤8	PASS

Test Graphs

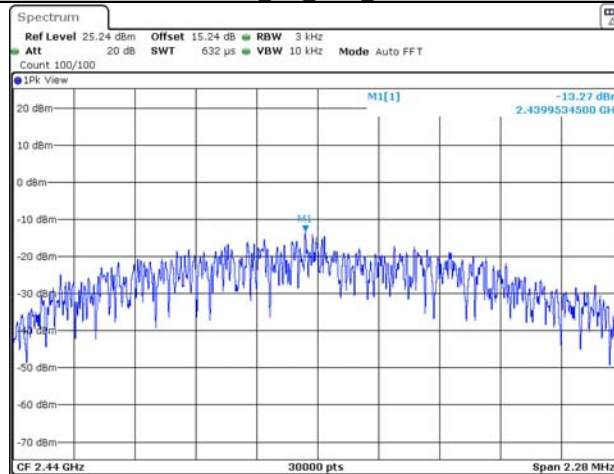


BLE 2M Ant0 2402



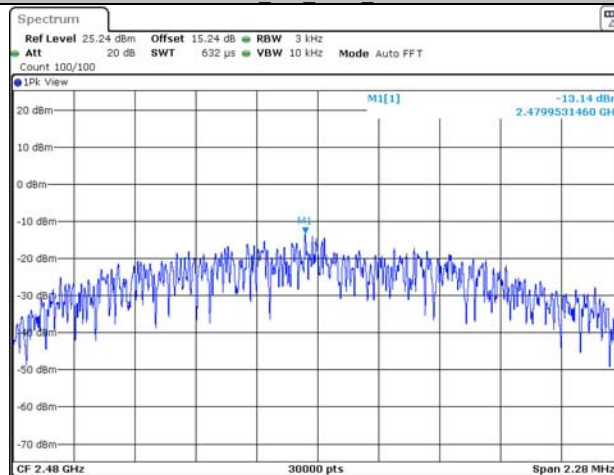
Date: 13.JUL.2021 17:04:14

BLE 2M Ant0 2440



Date: 13.JUL.2021 17:05:39

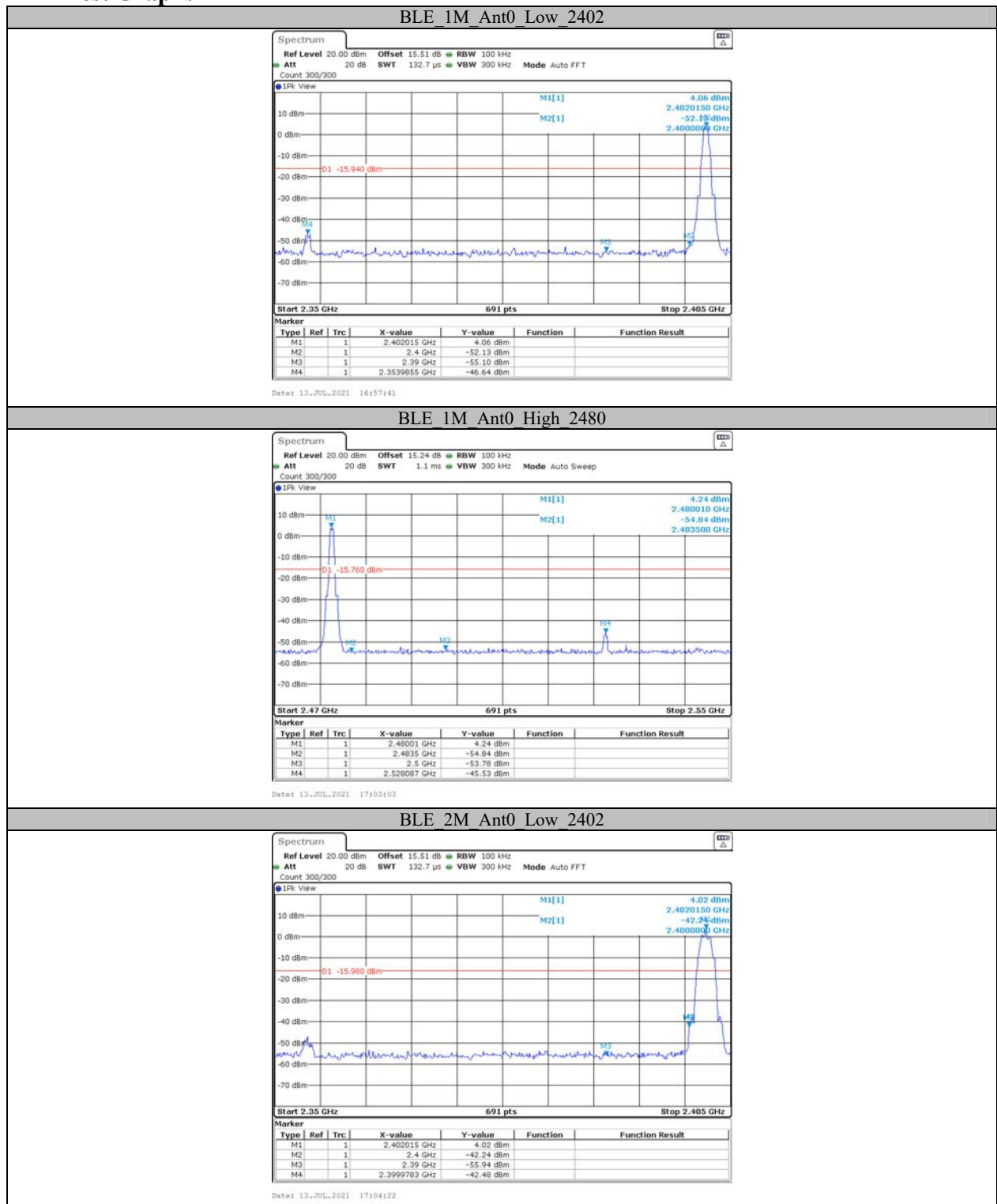
BLE 2M Ant0 2480

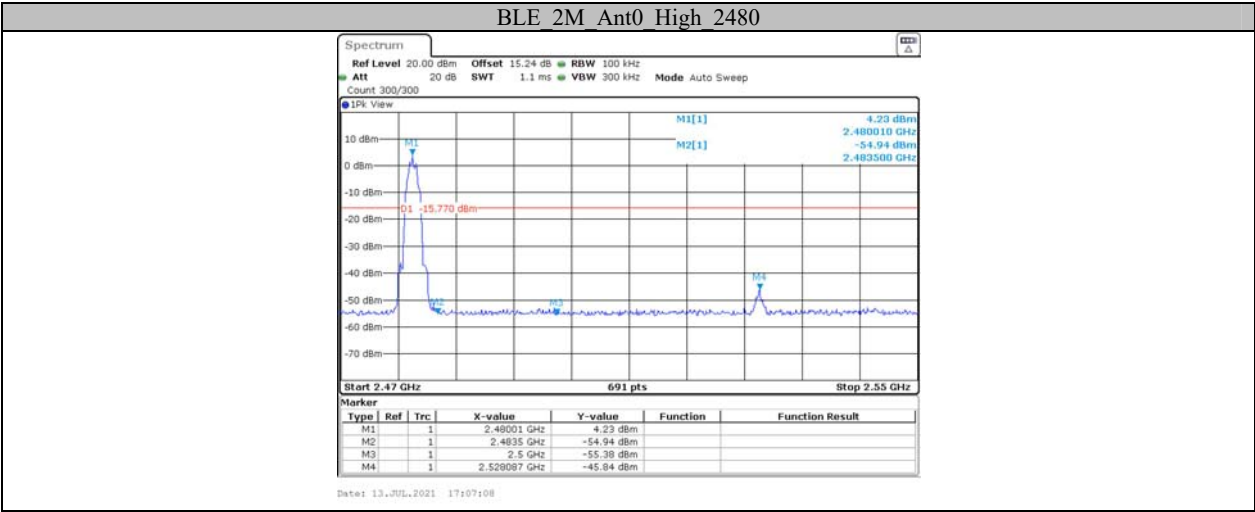


Date: 13.JUL.2021 17:06:59

Appendix E: Band edge measurements

Test Graphs

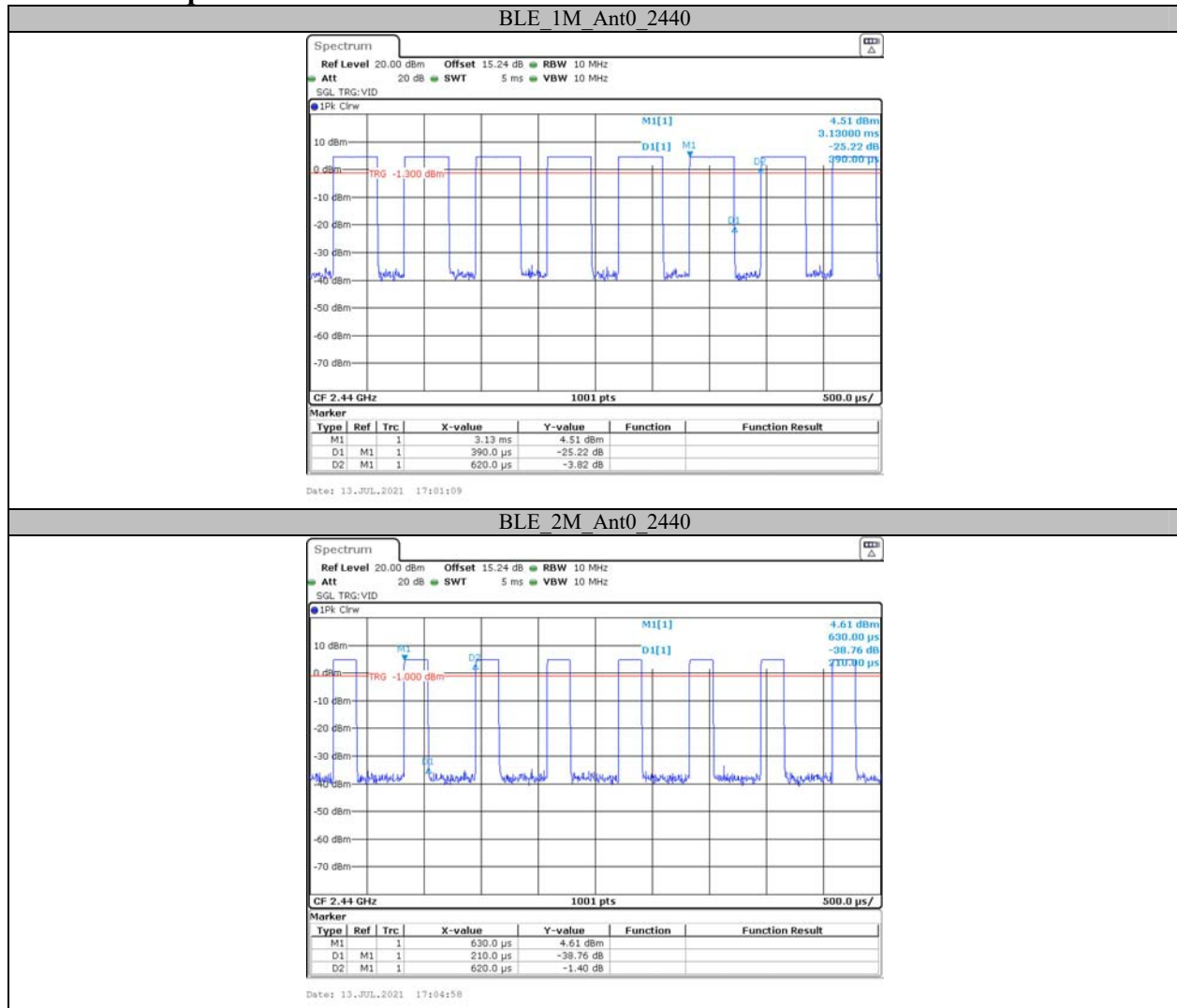




Appendix F: Duty Cycle Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant0	2440	0.39	0.62	62.90
BLE_2M	Ant0	2440	0.21	0.62	33.87

Test Graphs



***** END OF REPORT *****