



5.3 Appendix C: TRANSMIT POWER MEASUREMENT

5.3.1 Test Result

TestMode	Antenna	Channel	Power [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	15.22	≤24	PASS
	Ant2	5260	14.47	≤24	PASS
	Ant1	5280	15.33	≤24	PASS
	Ant2	5280	14.79	≤24	PASS
	Ant1	5320	15.26	≤24	PASS
	Ant2	5320	15.13	≤24	PASS
	Ant1	5500	15.18	≤24	PASS
	Ant2	5500	15.08	≤24	PASS
	Ant1	5580	14.94	≤24	PASS
	Ant2	5580	14.60	≤24	PASS
	Ant1	5700	14.69	≤24	PASS
	Ant2	5700	14.04	≤24	PASS
	Ant1	5720	14.34	≤24	PASS
	Ant2	5720	14.12	≤24	PASS
11N20MIMO	Ant1	5260	12.99	≤24	PASS
	Ant2	5260	12.41	≤24	PASS
	total	5260	15.72	≤24	PASS
	Ant1	5280	12.88	≤24	PASS
	Ant2	5280	12.72	≤24	PASS
	total	5280	15.81	≤24	PASS
	Ant1	5320	12.70	≤24	PASS
	Ant2	5320	12.96	≤24	PASS
	total	5320	15.84	≤24	PASS
	Ant1	5500	12.96	≤24	PASS
	Ant2	5500	12.78	≤24	PASS
	total	5500	15.88	≤24	PASS
	Ant1	5580	12.39	≤24	PASS
	Ant2	5580	11.40	≤24	PASS
	total	5580	14.93	≤24	PASS
	Ant1	5700	13.44	≤24	PASS
	Ant2	5700	11.98	≤24	PASS
	total	5700	15.78	≤24	PASS
	Ant1	5720	13.27	≤24	PASS
	Ant2	5720	12.04	≤24	PASS
	total	5720	15.71	≤24	PASS



11N40MIMO	Ant1	5270	13.15	≤ 24	PASS
	Ant2	5270	12.93	≤ 24	PASS
	total	5270	16.05	≤ 24	PASS
	Ant1	5310	13.16	≤ 24	PASS
	Ant2	5310	13.17	≤ 24	PASS
	total	5310	16.18	≤ 24	PASS
	Ant1	5510	13.09	≤ 24	PASS
	Ant2	5510	12.67	≤ 24	PASS
	total	5510	15.90	≤ 24	PASS
	Ant1	5550	13.38	≤ 24	PASS
	Ant2	5550	12.21	≤ 24	PASS
	total	5550	15.84	≤ 24	PASS
	Ant1	5670	12.45	≤ 24	PASS
	Ant2	5670	11.95	≤ 24	PASS
	total	5670	15.22	≤ 24	PASS
	Ant1	5710	13.04	≤ 24	PASS
	Ant2	5710	12.78	≤ 24	PASS
	total	5710	15.92	≤ 24	PASS
11AC80MIMO	Ant1	5290	13.58	≤ 24	PASS
	Ant2	5290	13.31	≤ 24	PASS
	total	5290	16.46	≤ 24	PASS
	Ant1	5530	13.34	≤ 24	PASS
	Ant2	5530	12.52	≤ 24	PASS
	total	5530	15.96	≤ 24	PASS
	Ant1	5610	12.77	≤ 24	PASS
	Ant2	5610	11.75	≤ 24	PASS
	total	5610	15.30	≤ 24	PASS
	Ant1	5690	12.51	≤ 24	PASS
	Ant2	5690	11.67	≤ 24	PASS
	total	5690	15.12	≤ 24	PASS



5.4 Appendix D: POWER SPECTRAL DENSITY MEASUREMENT

5.4.1 Test Result

TestMode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5260	3.99	≤11.00	PASS
	Ant2	5260	3.75	≤11.00	PASS
	Ant1	5280	4.18	≤11.00	PASS
	Ant2	5280	3.57	≤11.00	PASS
	Ant1	5320	4.01	≤11.00	PASS
	Ant2	5320	4.11	≤11.00	PASS
	Ant1	5500	4.34	≤11.00	PASS
	Ant2	5500	4.26	≤11.00	PASS
	Ant1	5580	3.59	≤11.00	PASS
	Ant2	5580	3.64	≤11.00	PASS
	Ant1	5700	3.81	≤11.00	PASS
	Ant2	5700	3.23	≤11.00	PASS
	Ant1	5720	2.51	≤11.00	PASS
	Ant2	5720	2.99	≤11.00	PASS
11N20MIMO	Ant1	5260	1.85	≤9.04	PASS
	Ant2	5260	1.4	≤9.04	PASS
	total	5260	4.64	≤9.04	PASS
	Ant1	5280	1.75	≤9.04	PASS
	Ant2	5280	1.32	≤9.04	PASS
	total	5280	4.55	≤9.04	PASS
	Ant1	5320	1.33	≤9.04	PASS
	Ant2	5320	1.47	≤9.04	PASS
	total	5320	4.41	≤9.04	PASS
	Ant1	5500	2.11	≤9.04	PASS
	Ant2	5500	1.71	≤9.04	PASS
	total	5500	4.92	≤9.04	PASS
	Ant1	5580	0.88	≤9.04	PASS
	Ant2	5580	0.17	≤9.04	PASS
	total	5580	3.55	≤9.04	PASS
	Ant1	5700	2.22	≤9.04	PASS
	Ant2	5700	0.7	≤9.04	PASS
	total	5700	4.54	≤9.04	PASS
	Ant1	5720	0.52	≤9.04	PASS
	Ant2	5720	0.83	≤9.04	PASS
	total	5720	3.69	≤9.04	PASS



11N40MIMO	Ant1	5270	-0.96	≤9.04	PASS
	Ant2	5270	-1.23	≤9.04	PASS
	total	5270	1.92	≤9.04	PASS
	Ant1	5310	-0.77	≤9.04	PASS
	Ant2	5310	-0.46	≤9.04	PASS
	total	5310	2.40	≤9.04	PASS
	Ant1	5510	-1.39	≤9.04	PASS
	Ant2	5510	-1.61	≤9.04	PASS
	total	5510	1.51	≤9.04	PASS
	Ant1	5550	-0.87	≤9.04	PASS
	Ant2	5550	-1.91	≤9.04	PASS
	total	5550	1.65	≤9.04	PASS
	Ant1	5670	-1.76	≤9.04	PASS
	Ant2	5670	-1.5	≤9.04	PASS
	total	5670	1.38	≤9.04	PASS
	Ant1	5710	-1.00	≤9.04	PASS
	Ant2	5710	-2.01	≤9.04	PASS
	total	5710	1.54	≤9.04	PASS
11AC80MIMO	Ant1	5290	-2.71	≤9.04	PASS
	Ant2	5290	-3.02	≤9.04	PASS
	total	5290	0.15	≤9.04	PASS
	Ant1	5530	-2.93	≤9.04	PASS
	Ant2	5530	-3.27	≤9.04	PASS
	total	5530	-0.09	≤9.04	PASS
	Ant1	5610	-3.6	≤9.04	PASS
	Ant2	5610	-4.21	≤9.04	PASS
	total	5610	-0.88	≤9.04	PASS
	Ant1	5690	-4.73	≤9.04	PASS
	Ant2	5690	-6.07	≤9.04	PASS
	total	5690	-2.26	≤9.04	PASS

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TestMode	Antenna	Channel	Power [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5720	-0.62	≤30.00	PASS
	Ant2	5720	-0.62	≤30.00	PASS
11N20MIMO	Ant1	5720	-2.71	≤28.04	PASS
	Ant2	5720	-2.13	≤28.04	PASS
	total	5720	-1.00	≤28.04	PASS
11N40MIMO	Ant1	5710	-5.25	≤28.04	PASS
	Ant2	5710	-5.18	≤28.04	PASS
	total	5710	-2.20	≤28.04	PASS
11AC80MIMO	Ant1	5690	-9.18	≤28.04	PASS
	Ant2	5690	-11.16	≤28.04	PASS
	total	5690	-7.03	≤28.04	PASS



5.4.2 Test Graphs

11A_Ant1_5260



11A_Ant2_5260



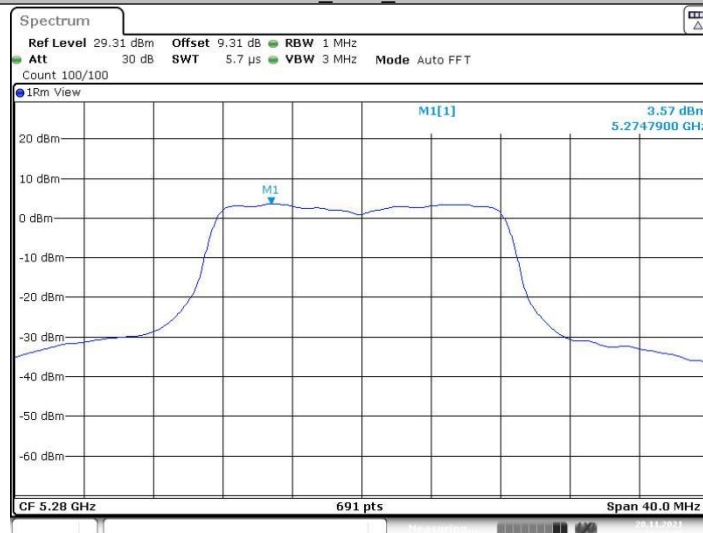


11A_Ant1_5280



Date: 20.NOV.2021 12:10:34

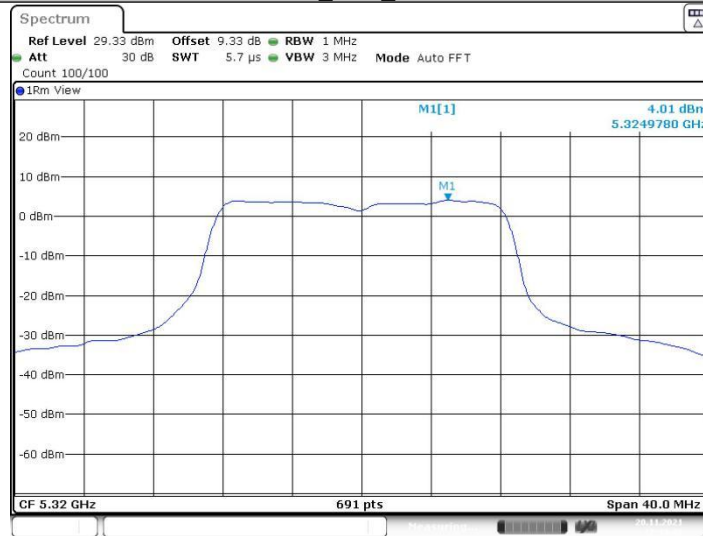
11A_Ant2_5280



Date: 20.NOV.2021 13:23:29



11A_Ant1_5320

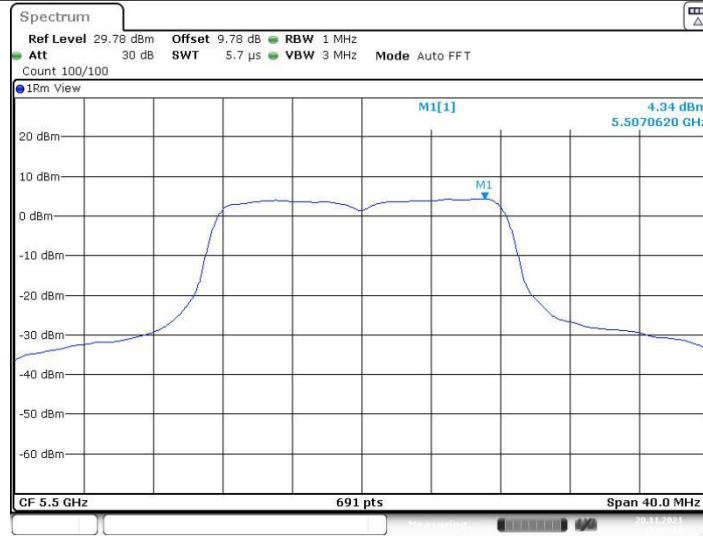


11A_Ant2_5320



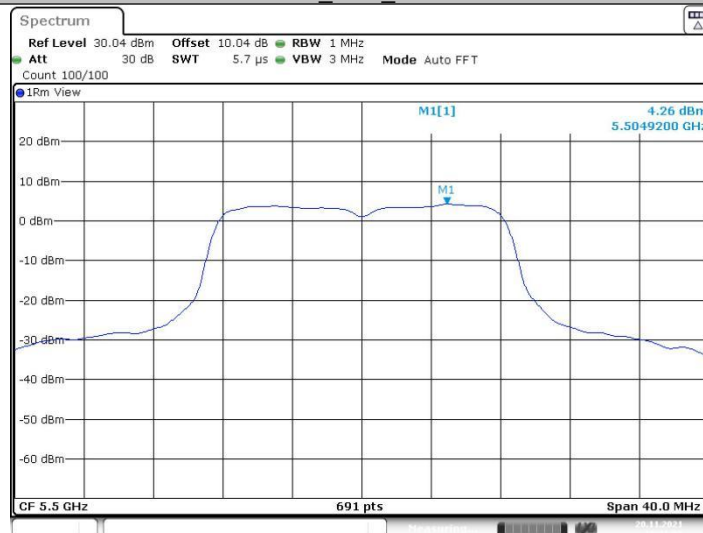


11A_Ant1_5500



Date: 20.NOV.2021 12:23:12

11A_Ant2_5500



Date: 20.NOV.2021 13:31:05

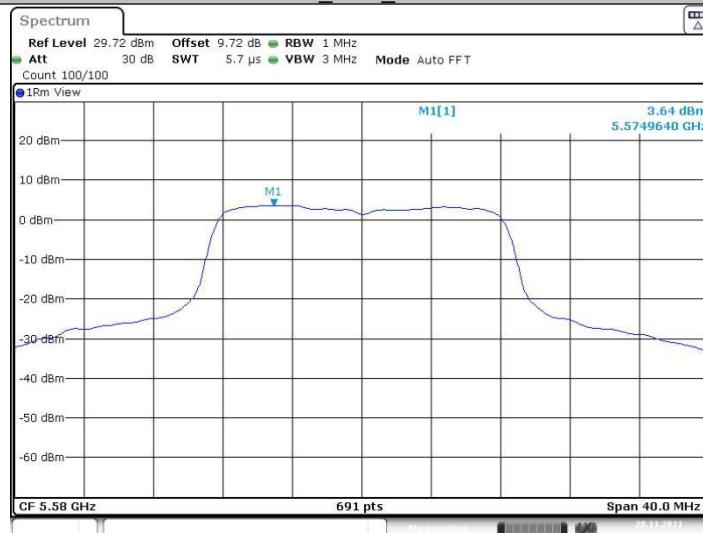


11A_Ant1_5580



Date: 20.NOV.2021 12:28:16

11A_Ant2_5580



Date: 20.NOV.2021 13:35:14

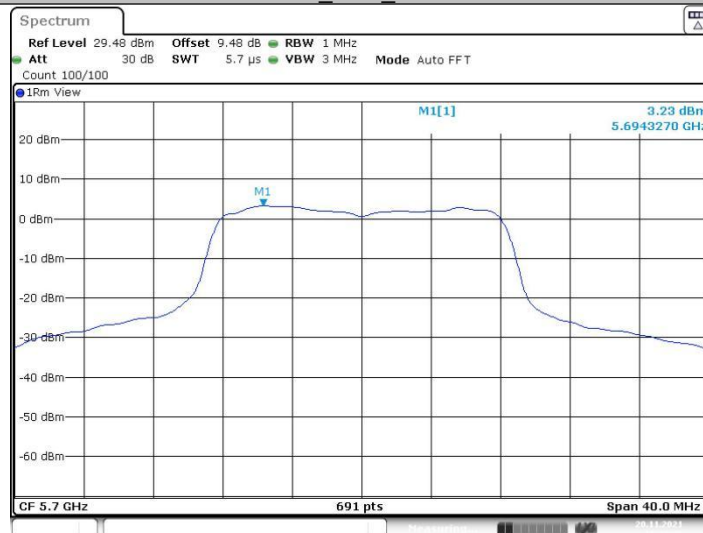


11A_Ant1_5700



Date: 20.NOV.2021 12:44:42

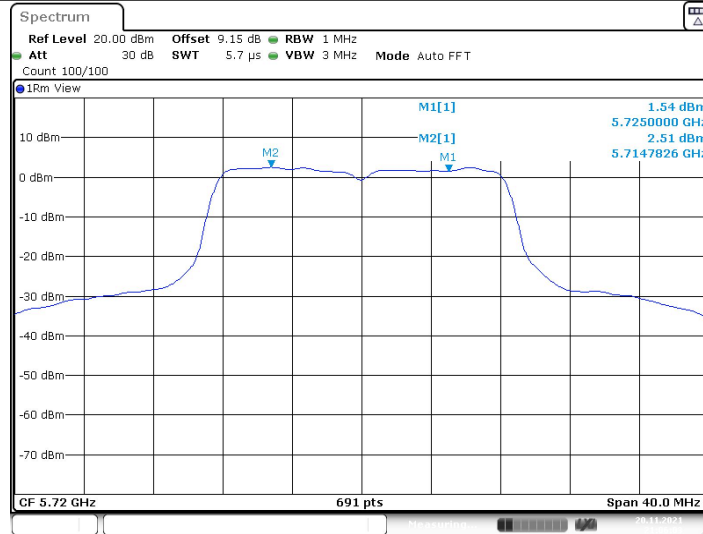
11A_Ant2_5700



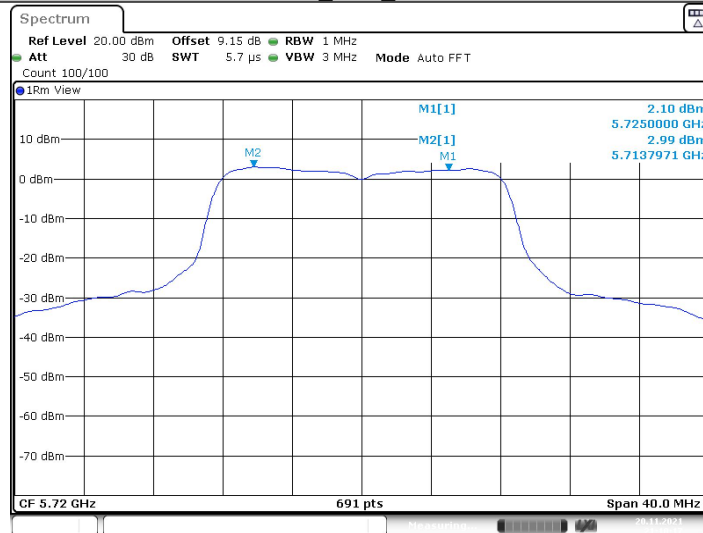
Date: 20.NOV.2021 13:43:37



11A_Ant1_5720

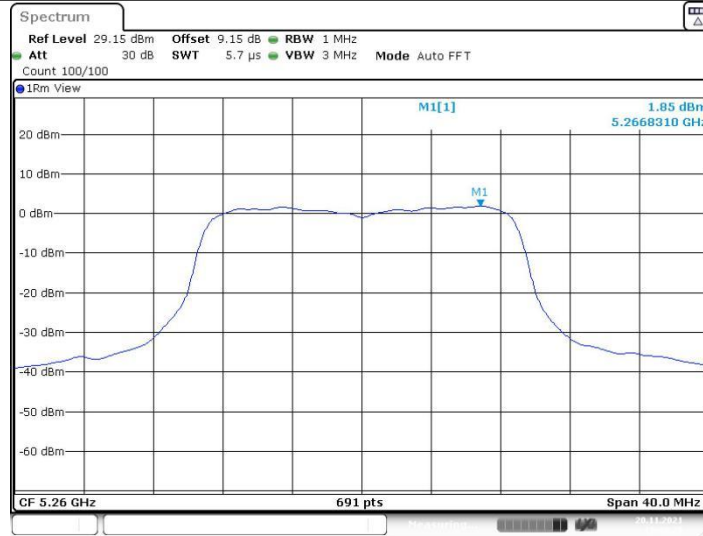


11A_Ant2_5720





11N20MIMO_Ant1_5260



Date: 20.NOV.2021 13:49:20

11N20MIMO_Ant2_5260



Date: 20.NOV.2021 13:51:01



11N20MIMO_Ant1_5280



Date: 20.NOV.2021 13:52:37

11N20MIMO_Ant2_5280



Date: 20.NOV.2021 13:53:45



11N20MIMO_Ant1_5320



Date: 20.NOV.2021 13:55:21

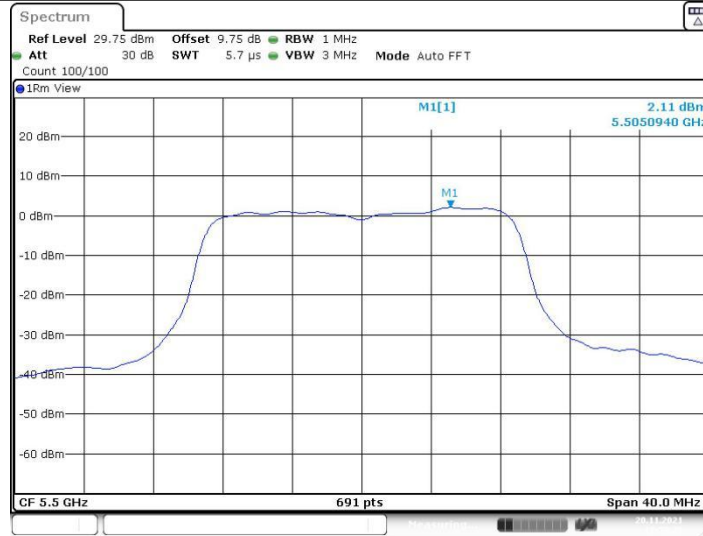
11N20MIMO_Ant2_5320



Date: 20.NOV.2021 13:56:37



11N20MIMO_Ant1_5500



Date: 20.NOV.2021 13:59:22

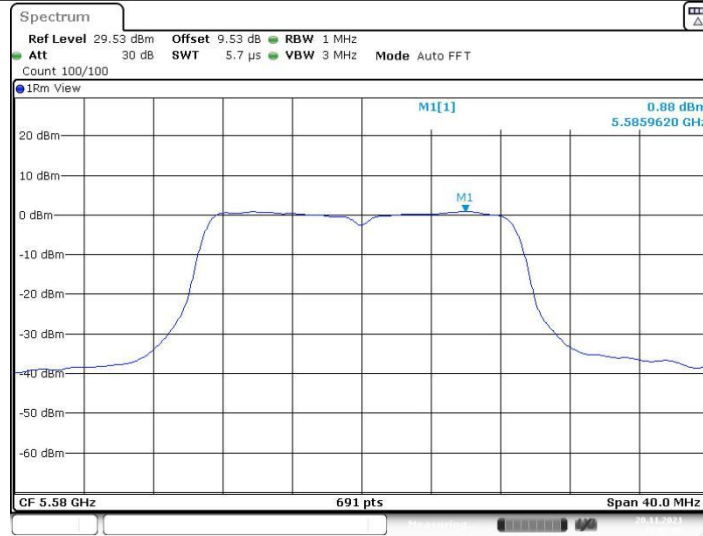
11N20MIMO_Ant2_5500



Date: 20.NOV.2021 14:00:46



11N20MIMO_Ant1_5580



Date: 20.NOV.2021 14:02:44

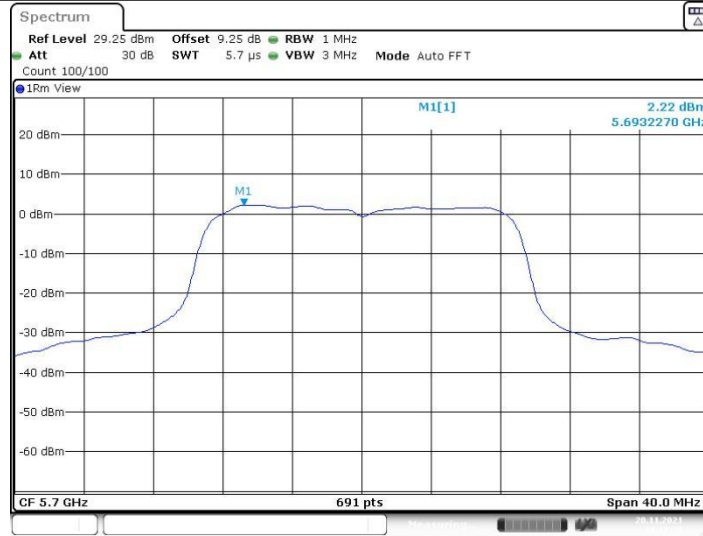
11N20MIMO_Ant2_5580



Date: 20.NOV.2021 14:04:33



11N20MIMO_Ant1_5700

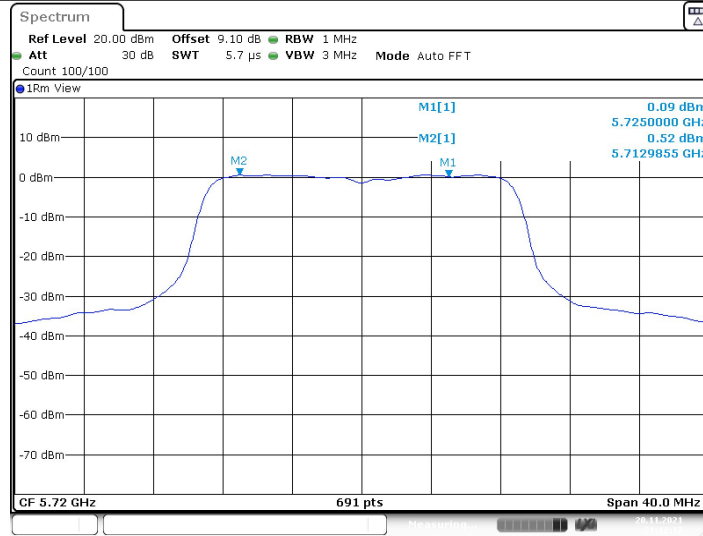


11N20MIMO_Ant2_5700

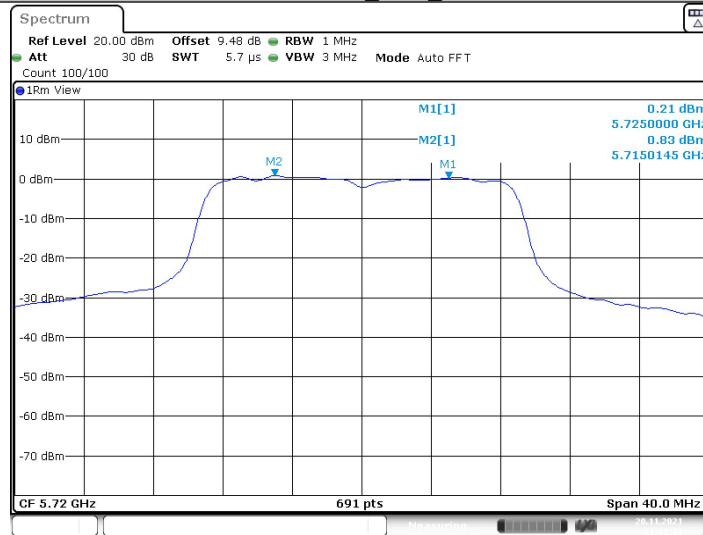




11N20MIMO_Ant1_5720



11N20MIMO_Ant2_5720



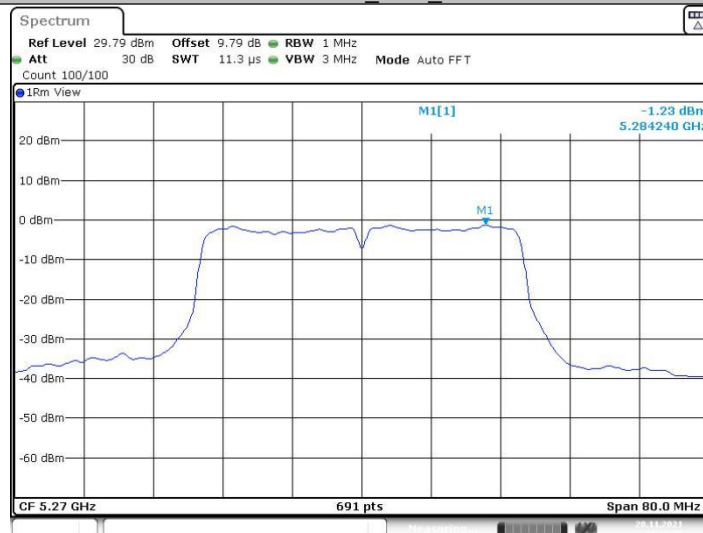


11N40MIMO_Ant1_5270



Date: 20.NOV.2021 14:15:49

11N40MIMO_Ant2_5270



Date: 20.NOV.2021 14:18:40



11N40MIMO_Ant1_5310



Date: 20.NOV.2021 14:21:46

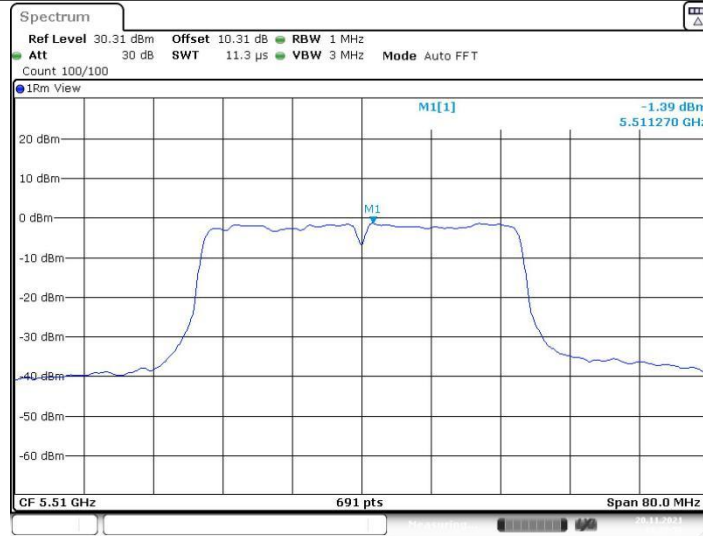
11N40MIMO_Ant2_5310



Date: 20.NOV.2021 14:23:20



11N40MIMO_Ant1_5510



11N40MIMO_Ant2_5510



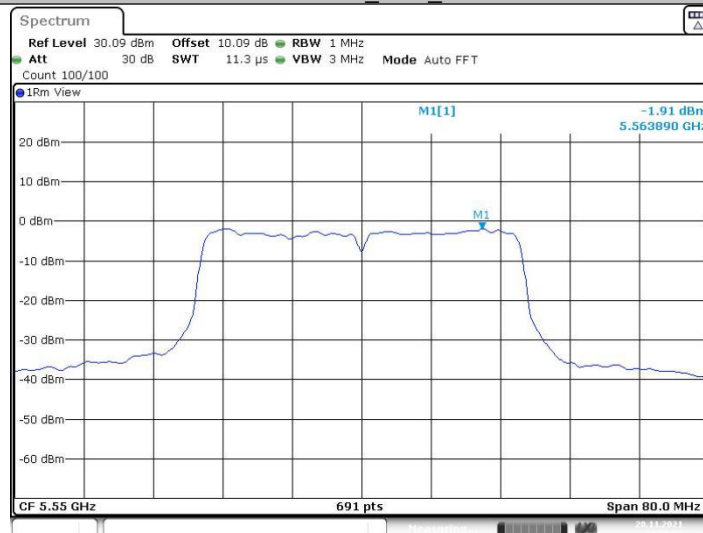


11N40MIMO_Ant1_5550



Date: 20.NOV.2021 14:37:51

11N40MIMO_Ant2_5550



Date: 20.NOV.2021 14:39:02



11N40MIMO_Ant1_5670



Date: 20.NOV.2021 14:43:34

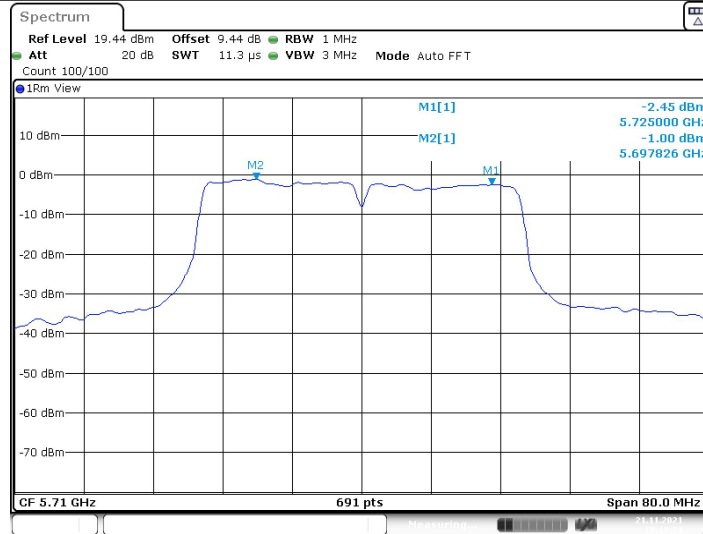
11N40MIMO_Ant2_5670



Date: 20.NOV.2021 14:47:13



11N40MIMO_Ant1_5710

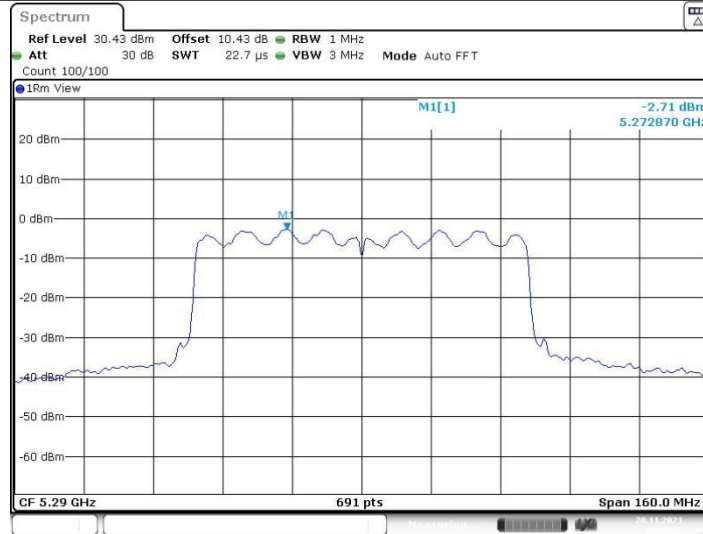


11N40MIMO_Ant2_5710

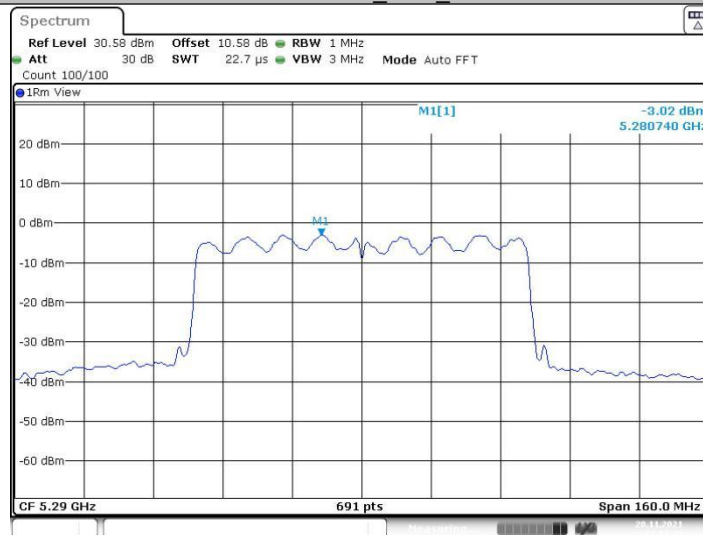




11AC80MIMO_Ant1_5290

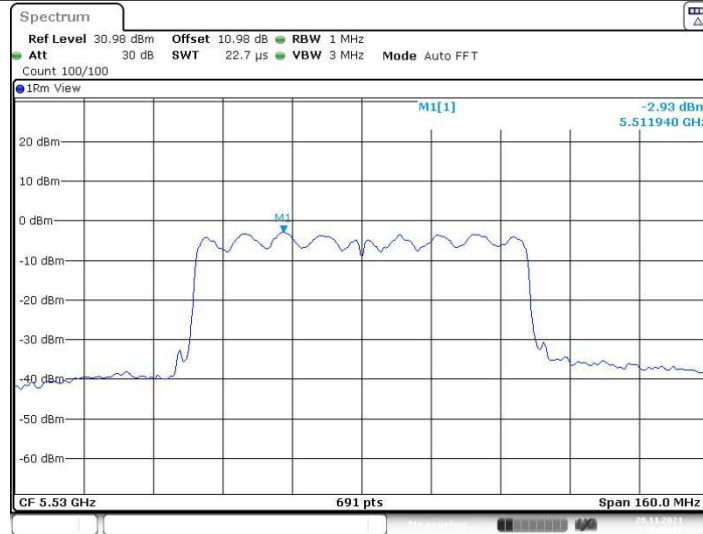


11AC80MIMO_Ant2_5290



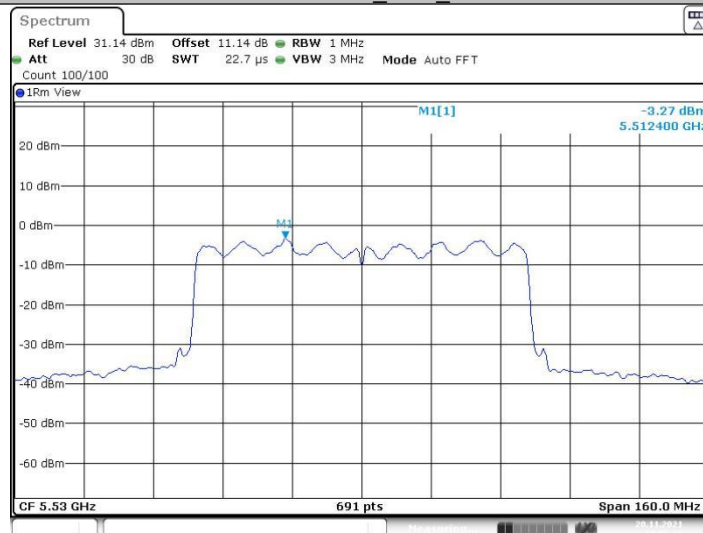


11AC80MIMO_Ant1_5530



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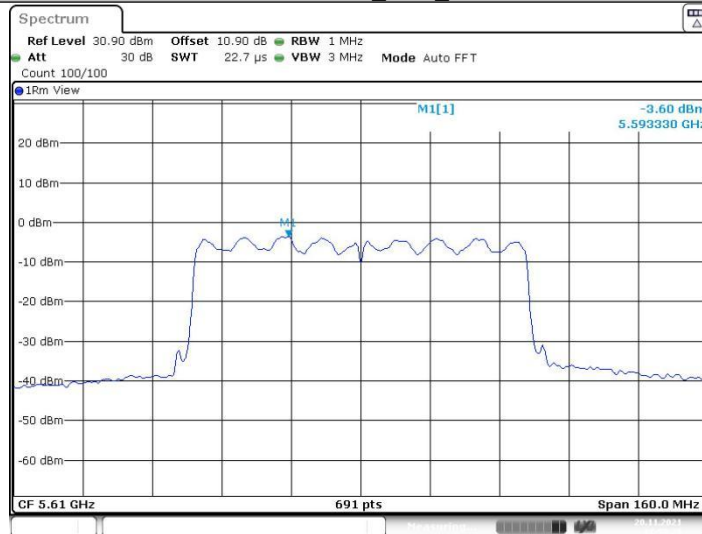
11AC80MIMO_Ant2_5530



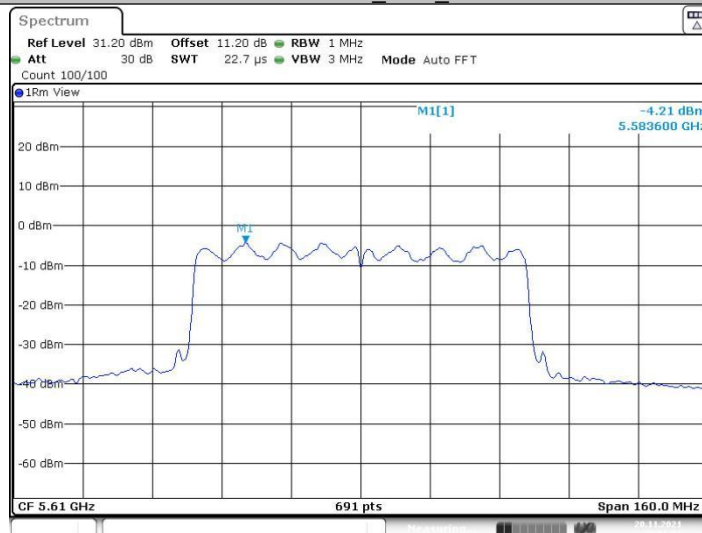
Date: 20.NOV.2021 14:57:10



11AC80MIMO_Ant1_5610

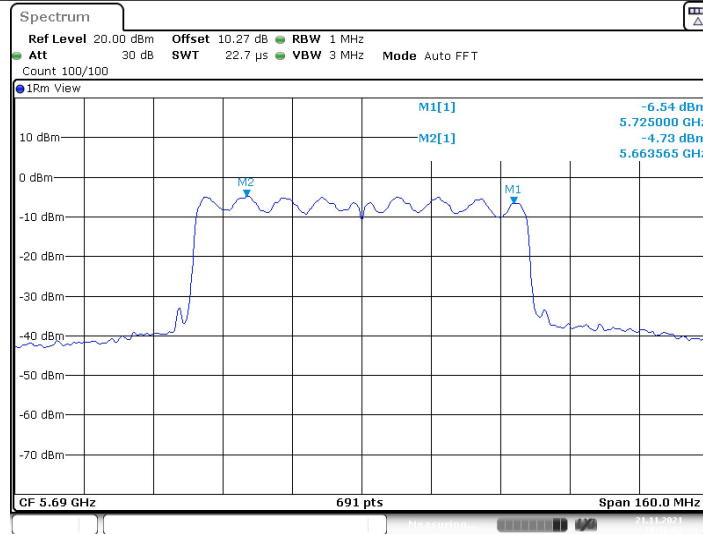


11AC80MIMO_Ant2_5610

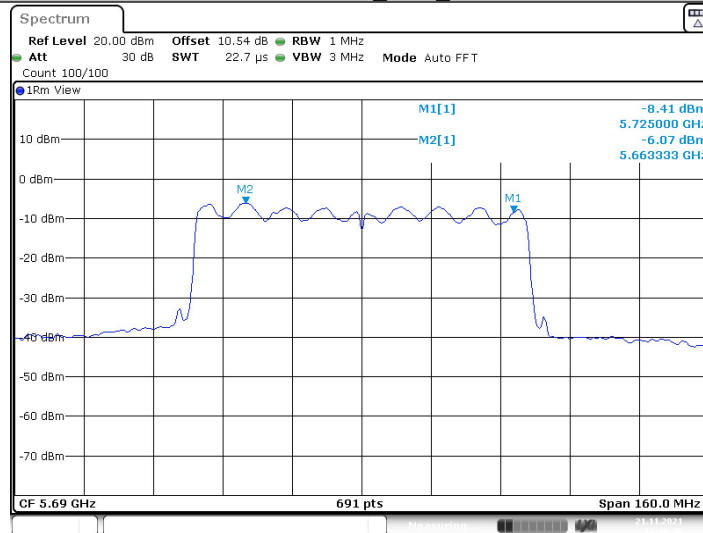




11A80MIMO_Ant1_5690



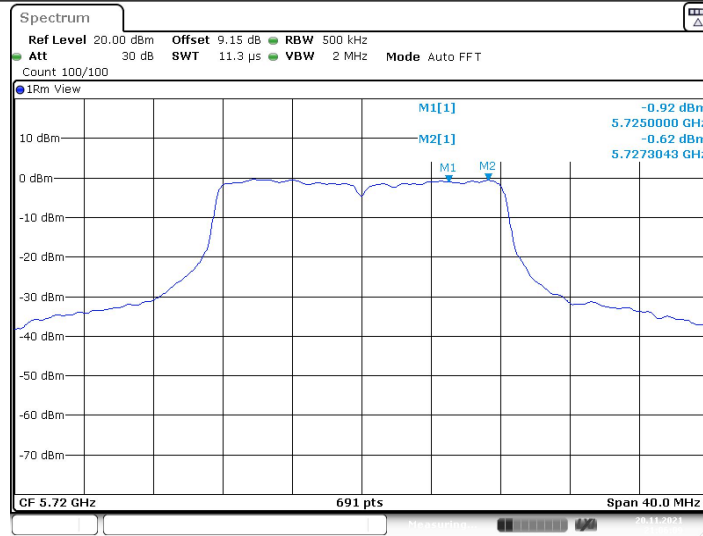
11AC80MIMO_Ant2_5690





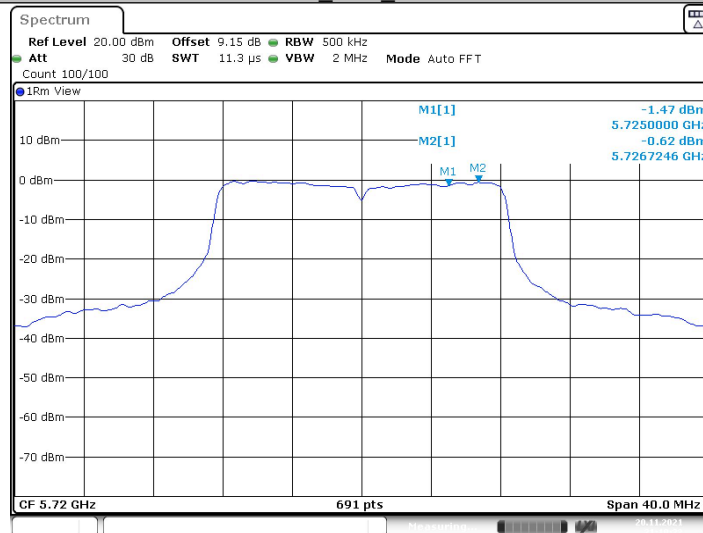
U-NII-3

11A_Ant1_5720



Date: 20.NOV.2021 21:06:09

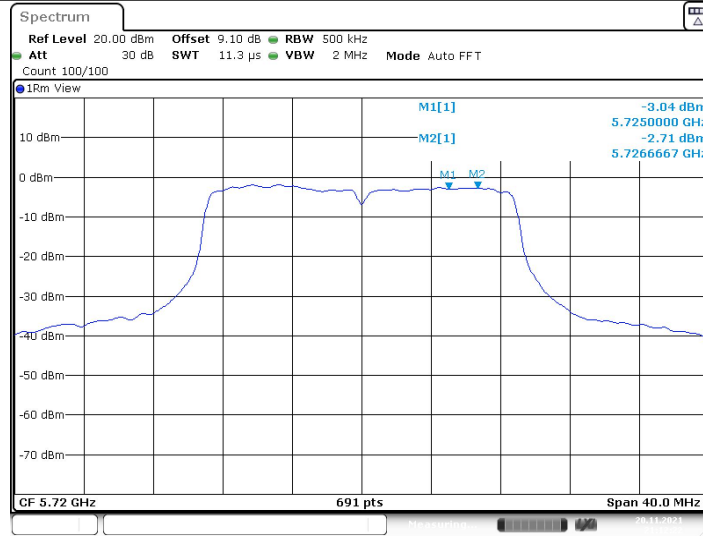
11A_Ant2_5720



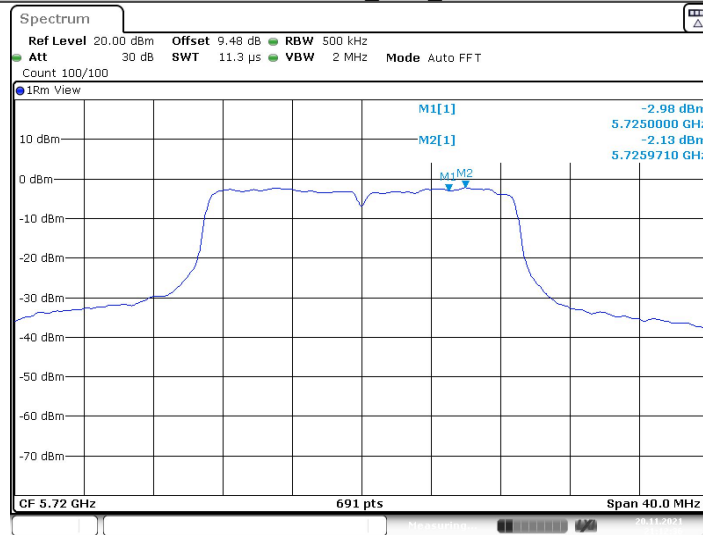
Date: 20.NOV.2021 21:10:22



11N20MIMO_Ant1_5720

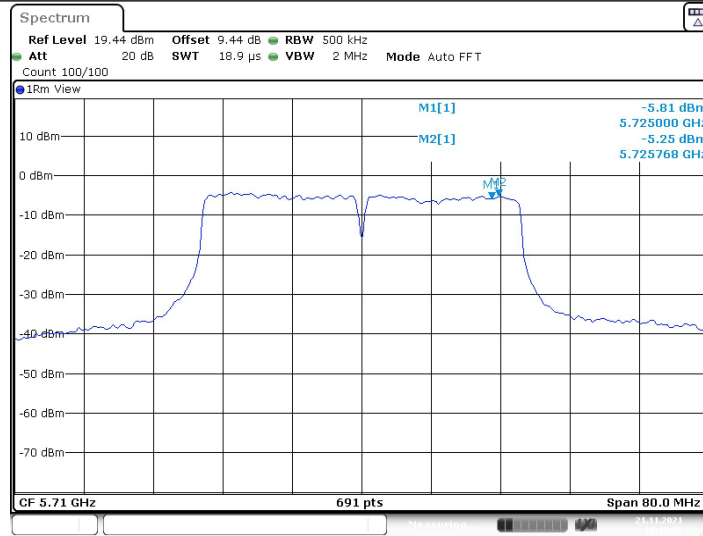


11N20MIMO_Ant2_5720

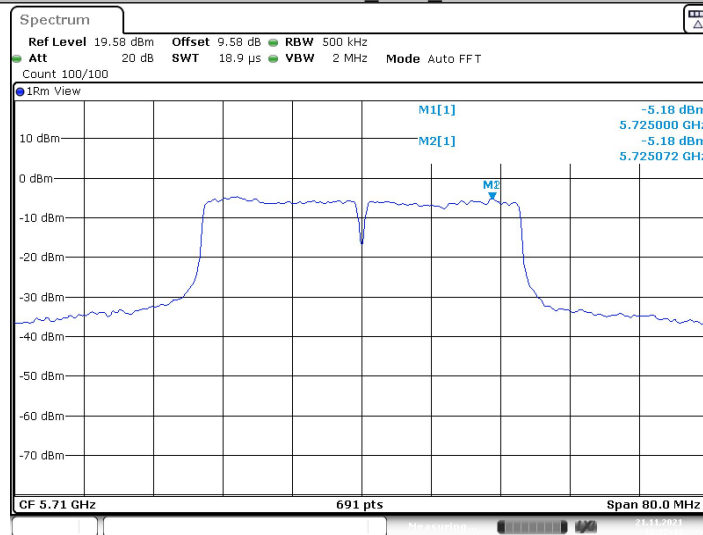




11N40MIMO_Ant1_5710

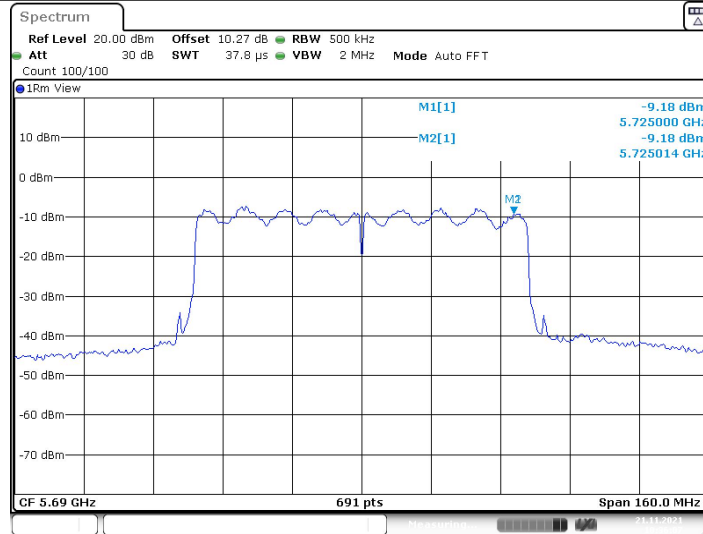


11N40MIMO_Ant2_5710

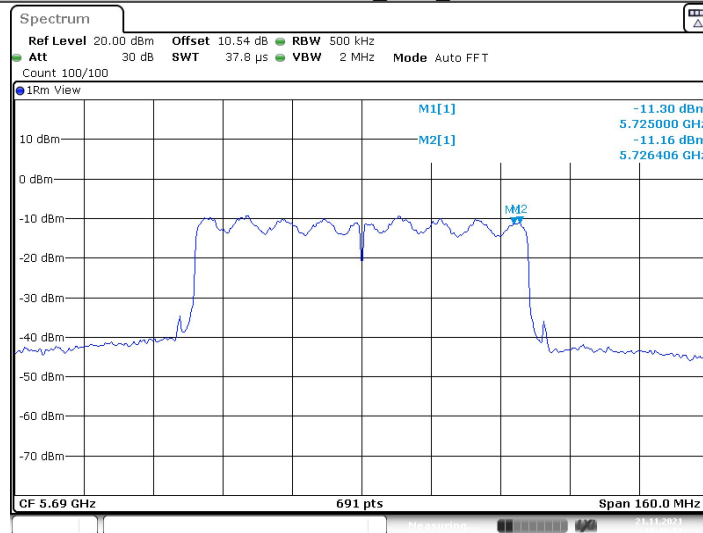




11AC80MIMO_Ant1_5690



11AC80MIMO_Ant2_5690





5.5 Appendix E: FREQUENCY STABILITY

5.5.1 Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5260	NV	NT	-28000	-5.32319	20	PASS
			LV	NT	-28000	-5.32319	20	PASS
			HV	NT	-28000	-5.32319	20	PASS
	Ant2	5260	NV	NT	-23000	-4.37262	20	PASS
			LV	NT	-22000	-4.18251	20	PASS
			HV	NT	-22000	-4.18251	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5260	NV	-30	-28000	-5.32319	20	PASS
			NV	-20	-28000	-5.32319	20	PASS
			NV	-10	-28000	-5.32319	20	PASS
			NV	0	-27000	-5.13308	20	PASS
			NV	10	-27000	-5.13308	20	PASS
			NV	20	-27000	-5.13308	20	PASS
			NV	30	-27000	-5.13308	20	PASS
			NV	40	-27000	-5.13308	20	PASS
	Ant2	5260	NV	50	-27000	-5.13308	20	PASS
			NV	-30	-22000	-4.18251	20	PASS
			NV	-20	-22000	-4.18251	20	PASS
			NV	-10	-22000	-4.18251	20	PASS
			NV	0	-22000	-4.18251	20	PASS
			NV	10	-22000	-4.18251	20	PASS
			NV	20	-22000	-4.18251	20	PASS
			NV	30	-22000	-4.18251	20	PASS
			NV	40	-22000	-4.18251	20	PASS
			NV	50	-22000	-4.18251	20	PASS



Important

- (1) The test report is valid with the official seal of the laboratory and the signatures of Test engineer, Author and Reviewer simultaneously.
- (2) The test report is invalid if altered.
- (3) Any photocopies or part photocopies in the test report are forbidden without the written permission from the laboratory.
- (4) Objections to the test report must be submitted to the laboratory within 15 days.
- (5) Generally, commission test is responsible for the tested samples only.

Address of the laboratory:

CVC Testing Technology Co., Ltd.

Address: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China

Post Code: 510663

Tel: 020-32293888

FAX: 020-32293889

E-mail: office@cvc.org.cn