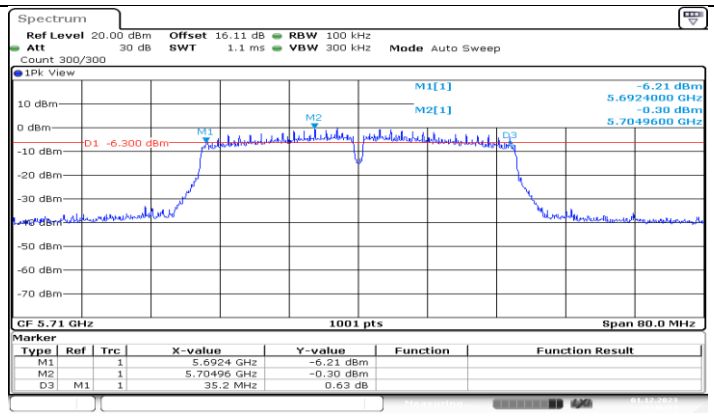
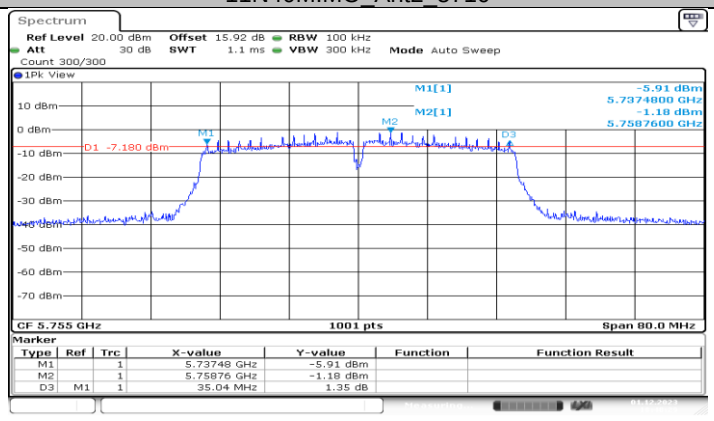
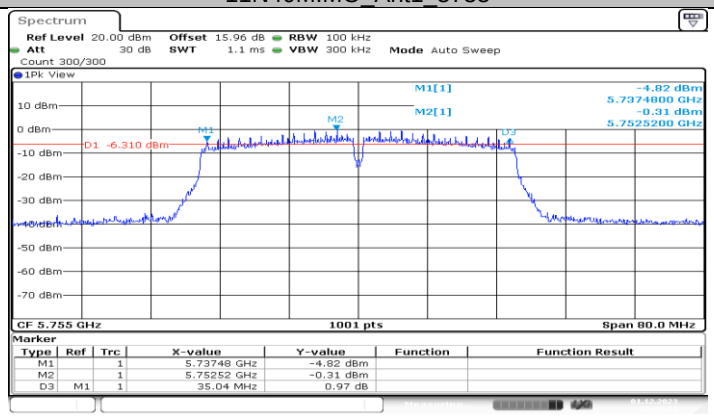


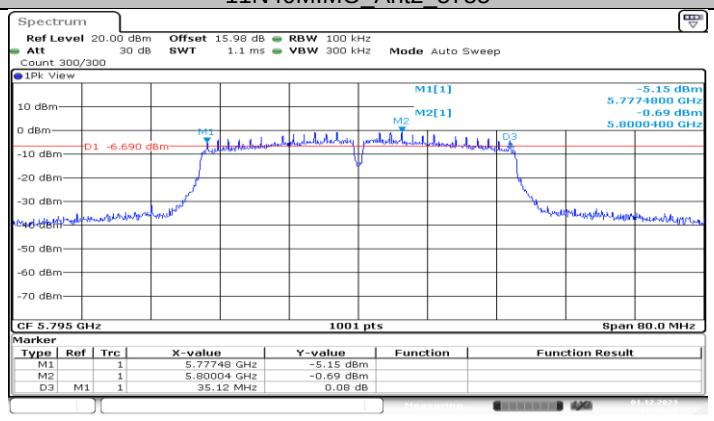
11N40MIMO_Ant2_5710



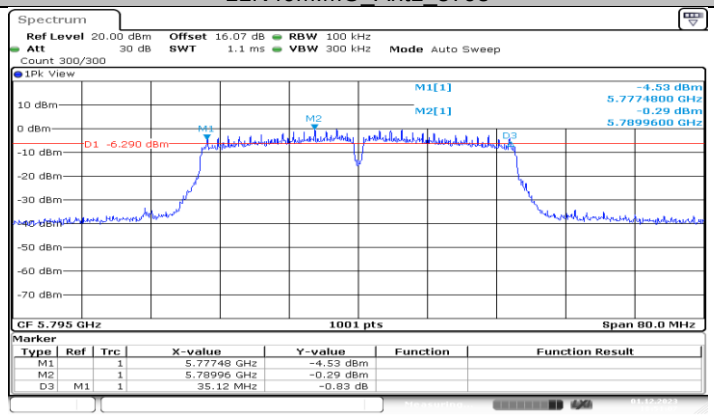
11N40MIMO_Ant1_5755



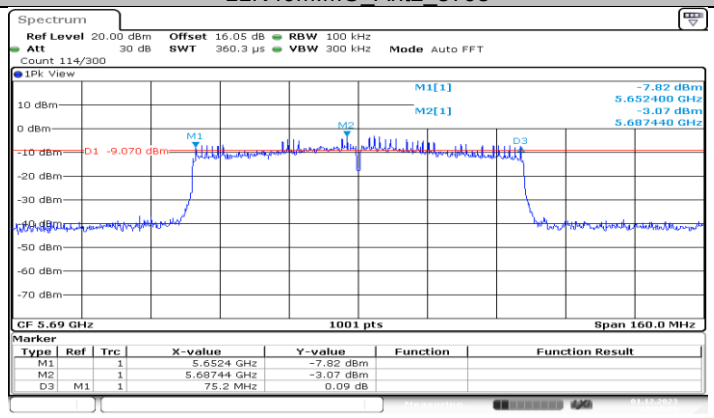
11N40MIMO_Ant2_5755



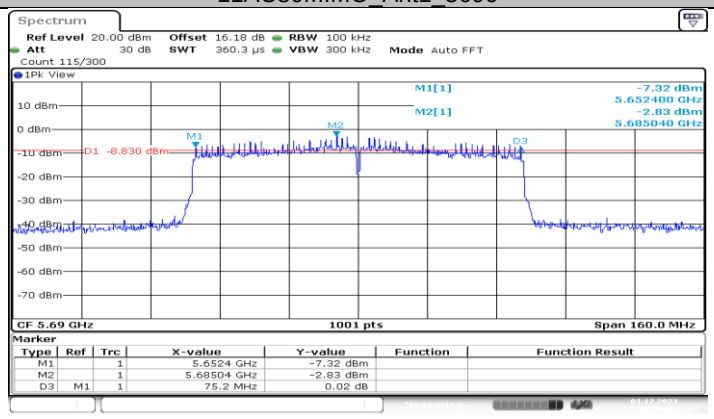
11N40MIMO_Ant1_5795



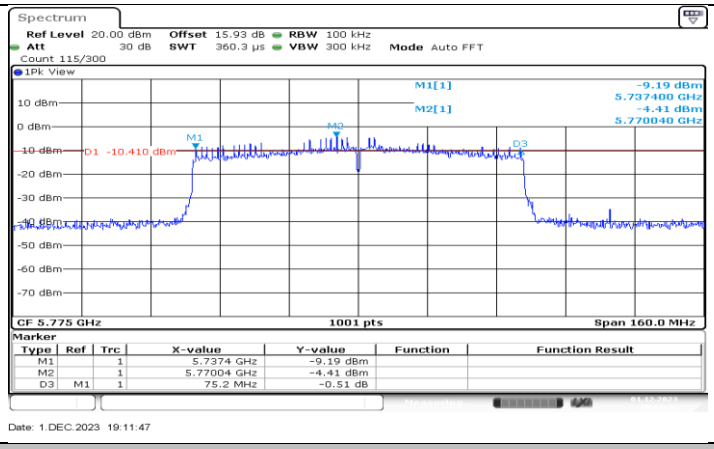
11N40MIMO_Ant2_5795



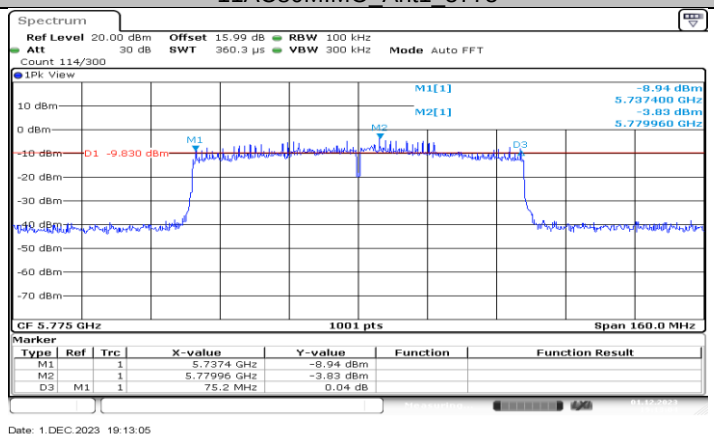
11AC80MIMO_Ant1_5690



11AC80MIMO_Ant2_5690



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775

11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

11.4.1. Test Result

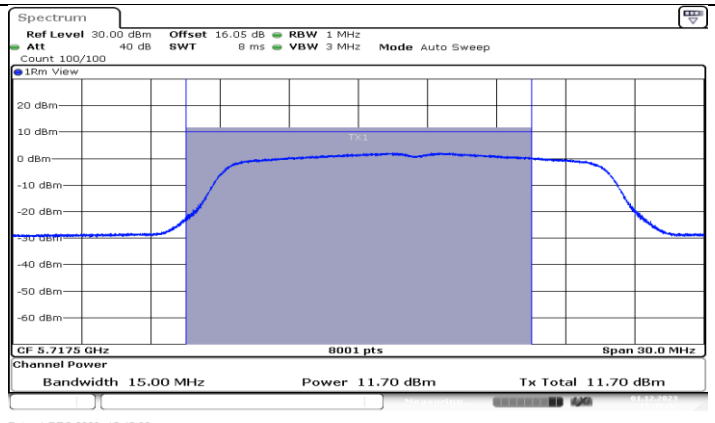
Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.00	≤23.98	---	18.01	≤22.35	PASS
	Ant2	5180	14.69	≤23.98	---	17.82	≤22.32	PASS
	Ant1	5200	13.83	≤23.98	---	17.84	≤22.48	PASS
	Ant2	5200	14.38	≤23.98	---	17.51	≤22.36	PASS
	Ant1	5240	14.12	≤23.98	---	18.13	≤22.41	PASS
	Ant2	5240	14.89	≤23.98	---	18.02	≤22.34	PASS
	Ant1	5260	14.44	≤23.98	≤23.38	18.45	≤29.38	PASS
	Ant2	5260	14.74	≤23.98	≤23.33	17.87	≤29.33	PASS
	Ant1	5280	14.60	≤23.98	≤23.37	18.61	≤29.37	PASS
	Ant2	5280	14.78	≤23.98	≤23.33	17.91	≤29.33	PASS
	Ant1	5320	14.38	≤23.98	≤23.35	18.39	≤29.35	PASS
	Ant2	5320	14.29	≤23.98	≤23.34	17.42	≤29.34	PASS
	Ant1	5500	14.42	≤23.98	≤23.35	18.43	≤29.35	PASS
	Ant2	5500	14.76	≤23.98	≤23.34	17.89	≤29.34	PASS
	Ant1	5580	14.70	≤23.98	≤23.36	18.71	≤29.36	PASS
	Ant2	5580	14.43	≤23.98	≤23.35	17.56	≤29.35	PASS
	Ant1	5700	14.30	≤23.98	≤23.37	18.31	≤29.37	PASS
	Ant2	5700	14.51	≤23.98	≤23.35	17.64	≤29.35	PASS
	Ant1	5720_UNII-2C	11.70	≤22.76	≤22.35	15.71	≤28.35	PASS
	Ant2	5720_UNII-2C	11.78	≤22.82	≤22.33	14.91	≤28.33	PASS
	Ant1	5720_UNII-3	3.87	≤30.00	≤30.00	7.88	---	PASS
	Ant2	5720_UNII-3	3.98	≤30.00	≤30.00	7.11	---	PASS
	Ant1	5745	14.69	≤30.00	≤30.00	18.70	---	PASS
	Ant2	5745	14.59	≤30.00	≤30.00	17.72	---	PASS
	Ant1	5785	14.56	≤30.00	≤30.00	18.57	---	PASS
	Ant2	5785	14.71	≤30.00	≤30.00	17.84	---	PASS
	Ant1	5825	14.46	≤30.00	≤30.00	18.47	---	PASS
	Ant2	5825	14.81	≤30.00	≤30.00	17.94	---	PASS
11N20MIMO	Ant1	5180	9.67	≤23.98	---	13.68	≤22.55	PASS
	Ant2	5180	11.48	≤23.98	---	15.49	≤22.50	PASS
	total	5180	13.68	≤23.98	---	17.69	≤22.50	PASS
	Ant1	5200	9.51	≤23.98	---	13.52	≤22.58	PASS
	Ant2	5200	11.96	≤23.98	---	15.97	≤22.50	PASS
	total	5200	13.92	≤23.98	---	17.93	≤22.50	PASS
	Ant1	5240	10.20	≤23.98	---	14.21	≤22.58	PASS
	Ant2	5240	11.47	≤23.98	---	15.48	≤22.49	PASS
	total	5240	13.89	≤23.98	---	17.90	≤22.49	PASS
	Ant1	5260	14.00	≤23.98	≤23.56	18.01	≤29.56	PASS
	Ant2	5260	14.64	≤23.98	≤23.51	18.65	≤29.51	PASS
	total	5260	17.34	≤23.98	≤23.51	21.35	≤29.51	PASS
	Ant1	5280	14.02	≤23.98	≤23.59	18.03	≤29.59	PASS
	Ant2	5280	14.67	≤23.98	≤23.51	18.68	≤29.51	PASS
	total	5280	17.37	≤23.98	≤23.51	21.38	≤29.51	PASS
	Ant1	5320	13.85	≤23.98	≤23.57	17.86	≤29.57	PASS
	Ant2	5320	14.28	≤23.98	≤23.50	18.29	≤29.50	PASS
	total	5320	17.08	≤23.98	≤23.50	21.09	≤29.50	PASS
	Ant1	5500	14.52	≤23.98	≤23.56	18.53	≤29.56	PASS
	Ant2	5500	14.68	≤23.98	≤23.50	18.69	≤29.50	PASS
	total	5500	17.61	≤23.98	≤23.50	21.62	≤29.50	PASS
	Ant1	5580	14.20	≤23.98	≤23.58	18.21	≤29.58	PASS
	Ant2	5580	14.44	≤23.98	≤23.50	18.45	≤29.50	PASS
	total	5580	17.33	≤23.98	≤23.50	21.34	≤29.50	PASS
	Ant1	5700	14.26	≤23.98	≤23.56	18.27	≤29.56	PASS
	Ant2	5700	14.50	≤23.98	≤23.51	18.51	≤29.51	PASS
	total	5700	17.39	≤23.98	≤23.51	21.40	≤29.51	PASS
	Ant1	5720_UNII-2C	11.16	≤22.77	≤22.47	15.17	≤28.47	PASS

	Ant2	5720_UNII-2C	11.58	≤22.81	≤22.43	15.59	≤28.43	PASS
	total	5720_UNII-2C	14.39	≤23.98	≤22.43	18.40	≤28.43	PASS
	Ant1	5720_UNII-3	3.63	≤30.00	≤30.00	7.64	---	PASS
	Ant2	5720_UNII-3	4.31	≤30.00	≤30.00	8.32	---	PASS
	total	5720_UNII-3	6.99	≤30.00	≤30.00	11.00	---	PASS
	Ant1	5745	13.68	≤30.00	≤30.00	17.69	---	PASS
	Ant2	5745	14.51	≤30.00	≤30.00	18.52	---	PASS
	total	5745	17.13	≤30.00	≤30.00	21.14	---	PASS
	Ant1	5785	13.82	≤30.00	≤30.00	17.83	---	PASS
	Ant2	5785	14.22	≤30.00	≤30.00	18.23	---	PASS
	total	5785	17.03	≤30.00	≤30.00	21.04	---	PASS
	Ant1	5825	13.94	≤30.00	≤30.00	17.95	---	PASS
	Ant2	5825	14.34	≤30.00	≤30.00	18.35	---	PASS
	total	5825	17.15	≤30.00	≤30.00	21.16	---	PASS
11N40MIMO	Ant1	5190	12.43	≤23.98	---	16.44	≤23.00	PASS
	Ant2	5190	14.57	≤23.98	---	18.58	≤23.00	PASS
	total	5190	16.64	≤23.98	---	20.65	≤23.00	PASS
	Ant1	5230	12.90	≤23.98	---	16.91	≤23.00	PASS
	Ant2	5230	14.31	≤23.98	---	18.32	≤23.00	PASS
	total	5230	16.67	≤23.98	---	20.68	≤23.00	PASS
	Ant1	5270	14.23	≤23.98	≤24.00	18.24	≤30.00	PASS
	Ant2	5270	14.81	≤23.98	≤24.00	18.82	≤30.00	PASS
	total	5270	17.54	≤23.98	≤24.00	21.55	≤30.00	PASS
	Ant1	5310	13.97	≤23.98	≤24.00	17.98	≤30.00	PASS
	Ant2	5310	14.51	≤23.98	≤24.00	18.52	≤30.00	PASS
	total	5310	17.26	≤23.98	≤24.00	21.27	≤30.00	PASS
	Ant1	5510	14.64	≤23.98	≤24.00	18.65	≤30.00	PASS
	Ant2	5510	14.83	≤23.98	≤24.00	18.84	≤30.00	PASS
	total	5510	17.75	≤23.98	≤24.00	21.76	≤30.00	PASS
	Ant1	5550	14.59	≤23.98	≤24.00	18.60	≤30.00	PASS
	Ant2	5550	14.40	≤23.98	≤24.00	18.41	≤30.00	PASS
	total	5550	17.51	≤23.98	≤24.00	21.52	≤30.00	PASS
	Ant1	5670	14.35	≤23.98	≤24.00	18.36	≤30.00	PASS
	Ant2	5670	14.63	≤23.98	≤24.00	18.64	≤30.00	PASS
	total	5670	17.50	≤23.98	≤24.00	21.51	≤30.00	PASS
	Ant1	5710_UNII-2C	12.16	≤23.98	≤24.00	16.17	≤30.00	PASS
	Ant2	5710_UNII-2C	12.37	≤23.98	≤24.00	16.38	≤30.00	PASS
	total	5710_UNII-2C	15.28	≤23.98	≤24.00	19.29	≤30.00	PASS
	Ant1	5710_UNII-3	-0.65	≤30.00	≤30.00	3.36	---	PASS
	Ant2	5710_UNII-3	-0.05	≤30.00	≤30.00	3.96	---	PASS
	total	5710_UNII-3	2.67	≤30.00	≤30.00	6.68	---	PASS
	Ant1	5755	13.49	≤30.00	≤30.00	17.50	---	PASS
	Ant2	5755	14.19	≤30.00	≤30.00	18.20	---	PASS
	total	5755	16.86	≤30.00	≤30.00	20.87	---	PASS
	Ant1	5795	14.13	≤30.00	≤30.00	18.14	---	PASS
	Ant2	5795	14.21	≤30.00	≤30.00	18.22	---	PASS
	total	5795	17.18	≤30.00	≤30.00	21.19	---	PASS
11AC80MIMO	Ant1	5210	11.04	≤23.98	---	15.05	≤23.00	PASS
	Ant2	5210	12.93	≤23.98	---	16.94	≤23.00	PASS
	total	5210	15.10	≤23.98	---	19.11	≤23.00	PASS
	Ant1	5290	12.80	≤23.98	≤24.00	16.81	≤30.00	PASS
	Ant2	5290	13.37	≤23.98	≤24.00	17.38	≤30.00	PASS
	total	5290	16.10	≤23.98	≤24.00	20.11	≤30.00	PASS
	Ant1	5530	13.63	≤23.98	≤24.00	17.64	≤30.00	PASS
	Ant2	5530	13.74	≤23.98	≤24.00	17.75	≤30.00	PASS
	total	5530	16.70	≤23.98	≤24.00	20.71	≤30.00	PASS
	Ant1	5610	13.29	≤23.98	≤24.00	17.30	≤30.00	PASS
	Ant2	5610	14.04	≤23.98	≤24.00	18.05	≤30.00	PASS
	total	5610	16.69	≤23.98	≤24.00	20.70	≤30.00	PASS
	Ant1	5690_UNII-2C	12.36	≤23.98	≤24.00	16.37	≤30.00	PASS
	Ant2	5690_UNII-2C	12.38	≤23.98	≤24.00	16.39	≤30.00	PASS
	total	5690_UNII-2C	15.38	≤23.98	≤24.00	19.39	≤30.00	PASS
	Ant1	5690_UNII-3	-3.95	≤30.00	≤30.00	0.06	---	PASS
	Ant2	5690_UNII-3	-3.55	≤30.00	≤30.00	0.46	---	PASS

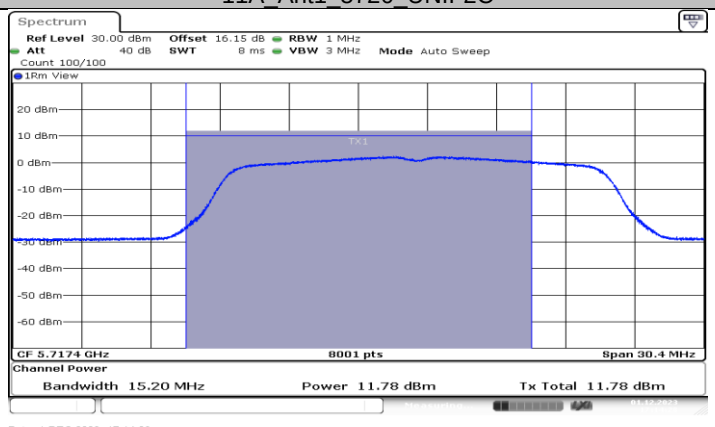
	total	5690_UNII-3	-0.74	≤30.00	≤30.00	3.27	---	PASS
	Ant1	5775	13.17	≤30.00	≤30.00	17.18	---	PASS
	Ant2	5775	13.58	≤30.00	≤30.00	17.59	---	PASS
	total	5775	16.39	≤30.00	≤30.00	20.40	---	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

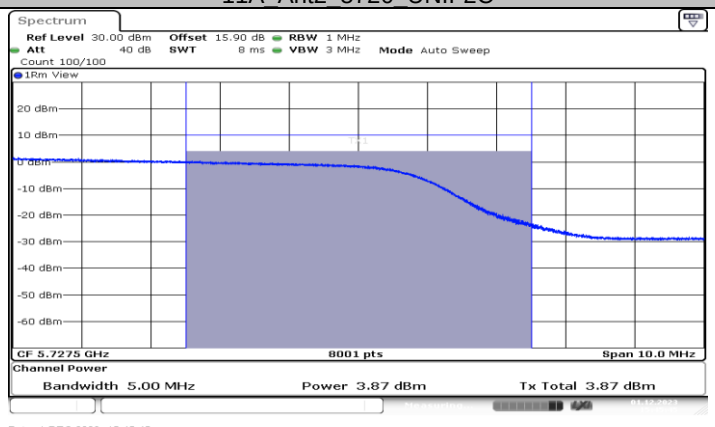
11.4.2. Test Graphs



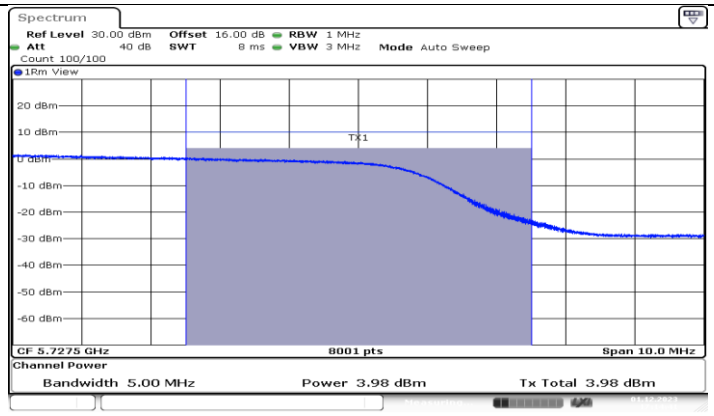
11A_Ant1_5720_UNII-2C



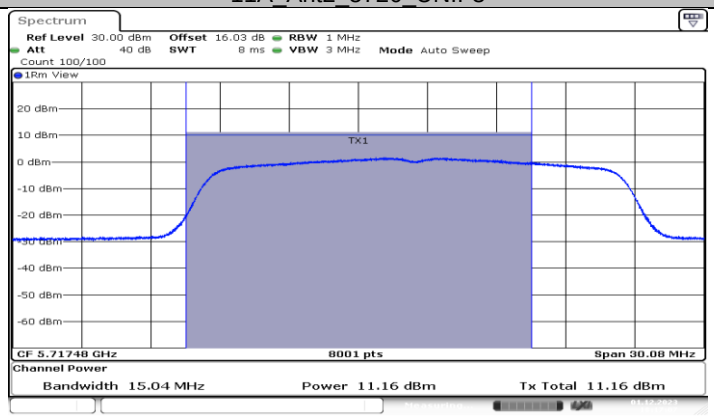
11A_Ant2_5720_UNII-2C



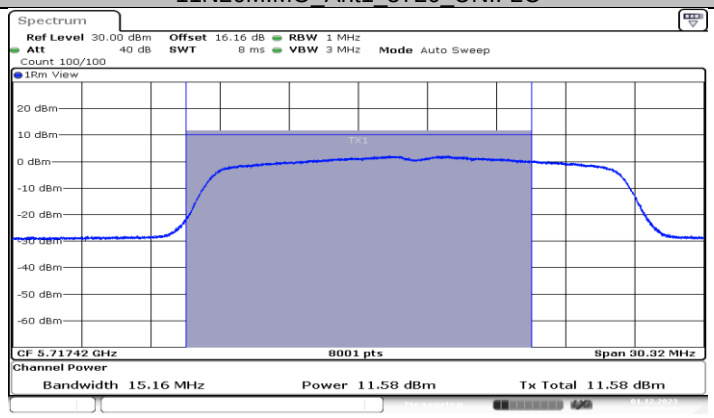
11A_Ant1_5720_UNII-3



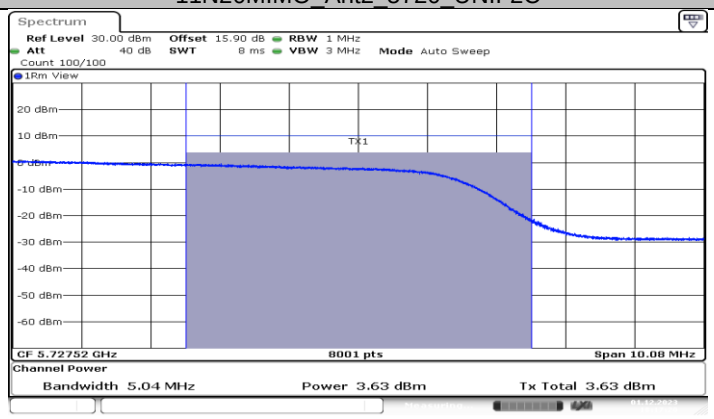
11A_Ant2_5720_UNII-3



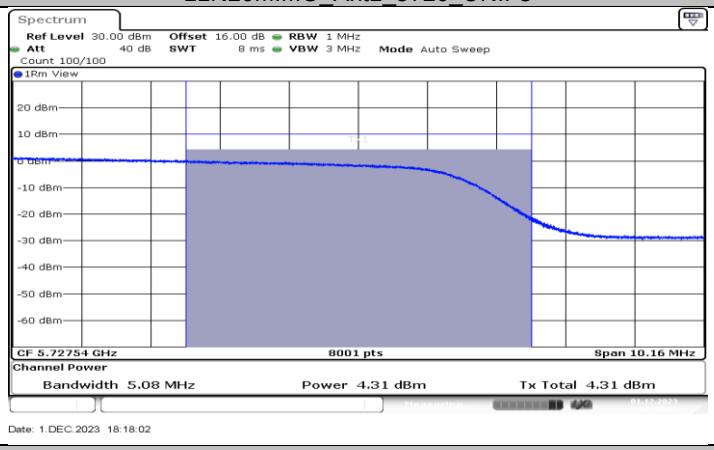
11N20MIMO_Ant1_5720_UNII-2C



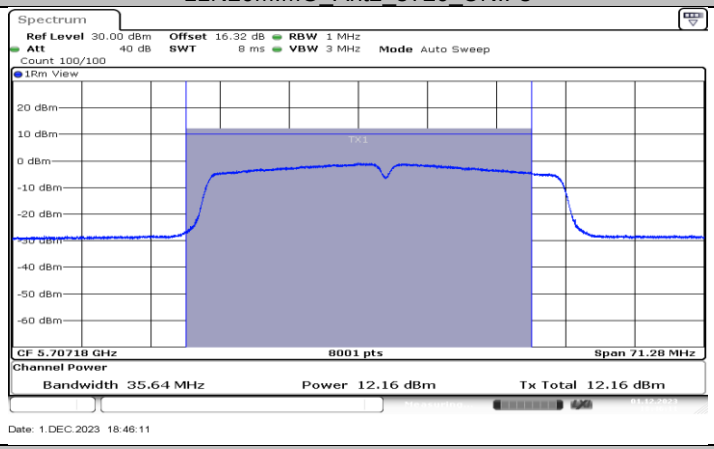
11N20MIMO_Ant2_5720_UNII-2C



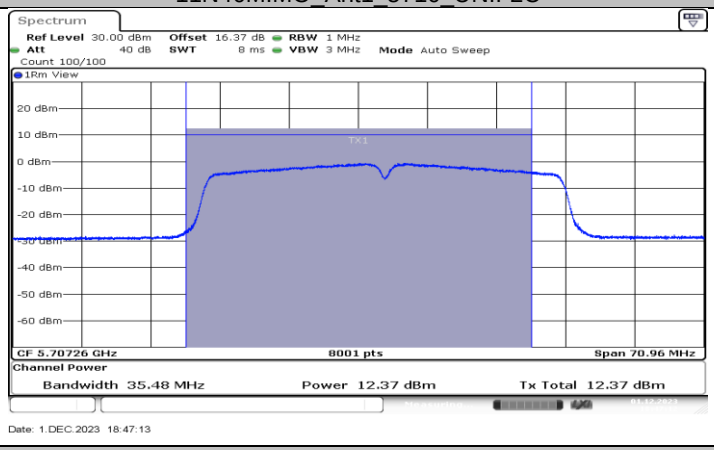
11N20MIMO_Ant1_5720_UNII-3



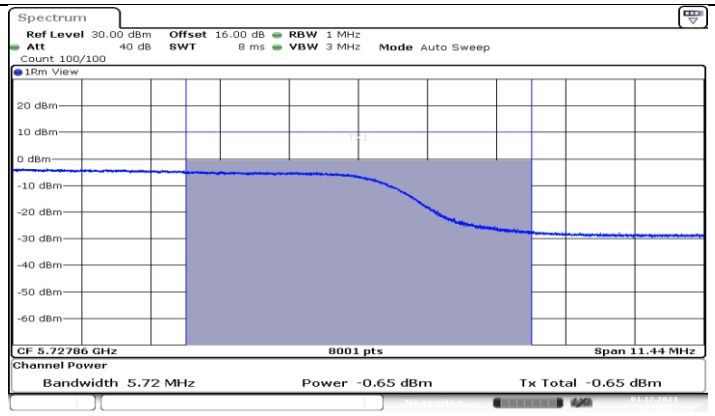
11N20MIMO_Ant2_5720_UNII-3



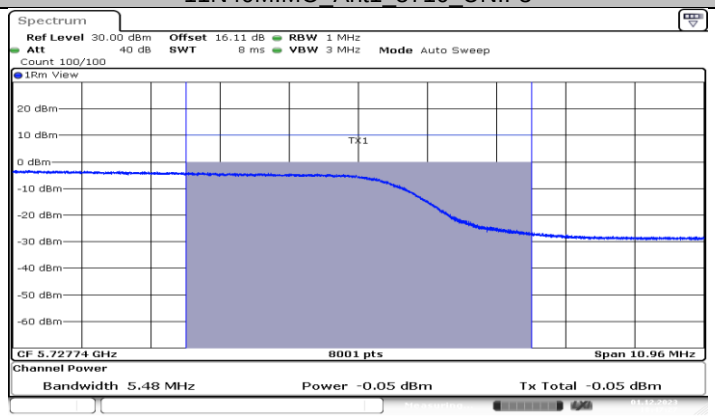
11N40MIMO_Ant1_5710_UNII-2C



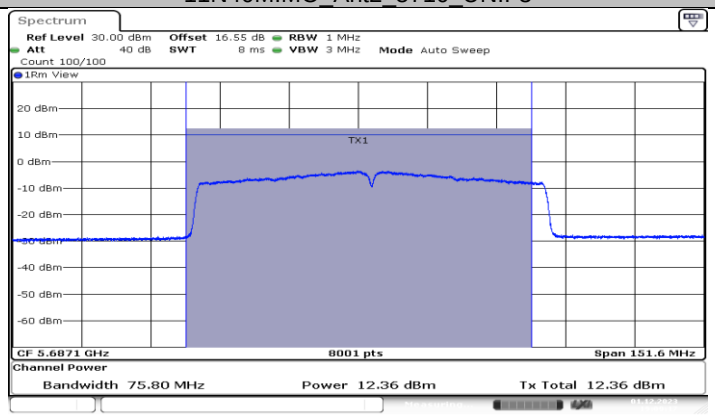
11N40MIMO_Ant2_5710_UNII-2C



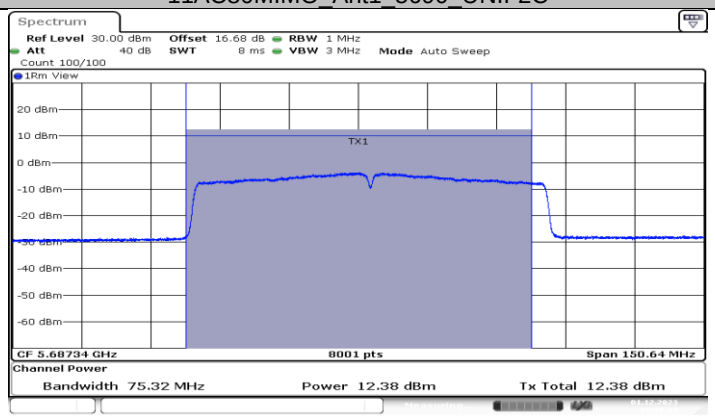
11N40MIMO_Ant1_5710_UNII-3



11N40MIMO_Ant2_5710_UNII-3

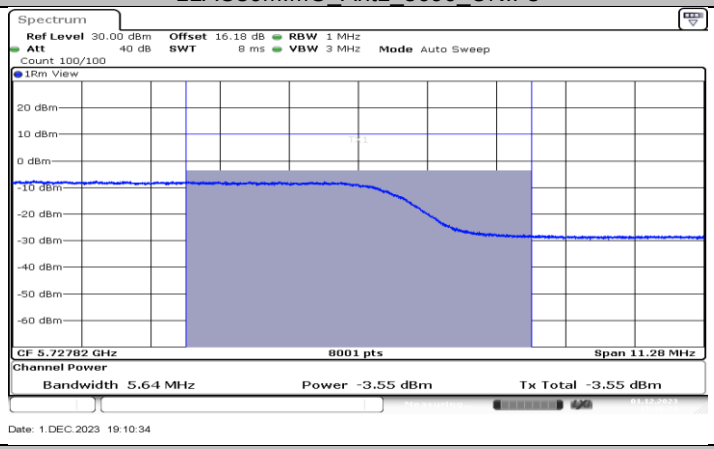


11AC80MIMO_Ant1_5690_UNII-2C



11AC80MIMO_Ant2_5690_UNII-2C

11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3

11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.5.1. Test Result

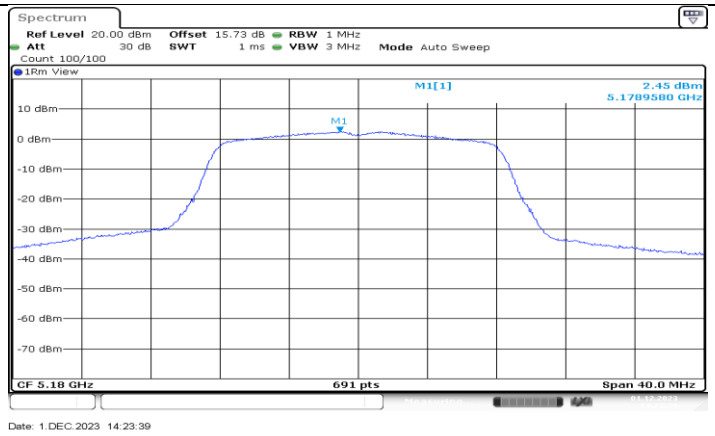
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	2.45	≤11.00	6.46	≤10.00	PASS
	Ant2	5180	3.00	≤11.00	6.13	≤10.00	PASS
	Ant1	5200	2.40	≤11.00	6.41	≤10.00	PASS
	Ant2	5200	2.47	≤11.00	5.60	≤10.00	PASS
	Ant1	5240	2.39	≤11.00	6.40	≤10.00	PASS
	Ant2	5240	3.06	≤11.00	6.19	≤10.00	PASS
	Ant1	5260	2.64	≤11.00	6.65	---	PASS
	Ant2	5260	3.10	≤11.00	6.23	---	PASS
	Ant1	5280	2.81	≤11.00	6.82	---	PASS
	Ant2	5280	3.25	≤11.00	6.38	---	PASS
	Ant1	5320	2.49	≤11.00	6.50	---	PASS
	Ant2	5320	2.68	≤11.00	5.81	---	PASS
	Ant1	5500	2.34	≤11.00	6.35	---	PASS
	Ant2	5500	2.83	≤11.00	5.96	---	PASS
	Ant1	5580	2.97	≤11.00	6.98	---	PASS
	Ant2	5580	2.67	≤11.00	5.80	---	PASS
	Ant1	5700	2.46	≤11.00	6.47	---	PASS
	Ant2	5700	2.61	≤11.00	5.74	---	PASS
	Ant1	5720_UNII-2C	1.96	≤11.00	5.97	---	PASS
	Ant2	5720_UNII-2C	2.18	≤11.00	5.31	---	PASS
	Ant1	5720_UNII-3	-2.61	≤30.00	1.40	---	PASS
	Ant2	5720_UNII-3	-2.43	≤30.00	0.70	---	PASS
	Ant1	5745	-0.26	≤30.00	3.75	---	PASS
	Ant2	5745	-0.03	≤30.00	3.10	---	PASS
	Ant1	5785	-0.17	≤30.00	3.84	---	PASS
	Ant2	5785	-0.06	≤30.00	3.07	---	PASS
	Ant1	5825	-0.19	≤30.00	3.82	---	PASS
	Ant2	5825	-0.02	≤30.00	3.11	---	PASS
11N20MIMO	Ant1	5180	-1.96	≤11.00	2.05	≤10.00	PASS
	Ant2	5180	-0.36	≤11.00	3.65	≤10.00	PASS
	total	5180	1.92	≤9.98	8.94	≤10.00	PASS
	Ant1	5200	-1.99	≤11.00	2.02	≤10.00	PASS
	Ant2	5200	-0.16	≤11.00	3.85	≤10.00	PASS
	total	5200	2.03	≤9.98	9.05	≤10.00	PASS
	Ant1	5240	-1.81	≤11.00	2.20	≤10.00	PASS
	Ant2	5240	-0.52	≤11.00	3.49	≤10.00	PASS
	total	5240	1.89	≤9.98	8.91	≤10.00	PASS
	Ant1	5260	1.90	≤11.00	5.91	---	PASS
	Ant2	5260	2.89	≤11.00	6.90	---	PASS
	total	5260	5.43	≤9.98	12.45	---	PASS
	Ant1	5280	2.36	≤11.00	6.37	---	PASS
	Ant2	5280	2.92	≤11.00	6.93	---	PASS
	total	5280	5.66	≤9.98	12.68	---	PASS
	Ant1	5320	1.95	≤11.00	5.96	---	PASS
	Ant2	5320	2.51	≤11.00	6.52	---	PASS
	total	5320	5.25	≤9.98	12.27	---	PASS
	Ant1	5500	2.31	≤11.00	6.32	---	PASS
	Ant2	5500	2.58	≤11.00	6.59	---	PASS
	total	5500	5.46	≤9.98	12.48	---	PASS
	Ant1	5580	2.32	≤11.00	6.33	---	PASS
	Ant2	5580	2.46	≤11.00	6.47	---	PASS
	total	5580	5.40	≤9.98	12.42	---	PASS
	Ant1	5700	2.51	≤11.00	6.52	---	PASS
	Ant2	5700	2.53	≤11.00	6.54	---	PASS
	total	5700	5.53	≤9.98	12.55	---	PASS
	Ant1	5720_UNII-2C	1.10	≤11.00	5.11	---	PASS
	Ant2	5720_UNII-2C	1.85	≤11.00	5.86	---	PASS
	total	5720_UNII-2C	4.50	≤9.98	11.52	---	PASS

	Ant1	5720_UNII-3	-3.37	≤30.00	0.64	---	PASS
	Ant2	5720_UNII-3	-2.85	≤30.00	1.16	---	PASS
	total	5720_UNII-3	-0.09	≤28.98	6.93	---	PASS
	Ant1	5745	-1.33	≤30.00	2.68	---	PASS
	Ant2	5745	-0.36	≤30.00	3.65	---	PASS
	total	5745	2.19	≤28.98	9.21	---	PASS
	Ant1	5785	-1.14	≤30.00	2.87	---	PASS
	Ant2	5785	-0.87	≤30.00	3.14	---	PASS
	total	5785	2.01	≤28.98	9.03	---	PASS
	Ant1	5825	-0.97	≤30.00	3.04	---	PASS
	Ant2	5825	-0.54	≤30.00	3.47	---	PASS
	total	5825	2.26	≤28.98	9.28	---	PASS
11N40MIMO	Ant1	5190	-1.98	≤11.00	2.03	≤10.00	PASS
	Ant2	5190	-0.24	≤11.00	3.77	≤10.00	PASS
	total	5190	1.99	≤9.98	9.01	≤10.00	PASS
	Ant1	5230	-1.86	≤11.00	2.15	≤10.00	PASS
	Ant2	5230	-0.69	≤11.00	3.32	≤10.00	PASS
	total	5230	1.77	≤9.98	8.79	≤10.00	PASS
	Ant1	5270	-0.28	≤11.00	3.73	---	PASS
	Ant2	5270	0.22	≤11.00	4.23	---	PASS
	total	5270	2.99	≤9.98	10.01	---	PASS
	Ant1	5310	-0.67	≤11.00	3.34	---	PASS
	Ant2	5310	-0.10	≤11.00	3.91	---	PASS
	total	5310	2.63	≤9.98	9.65	---	PASS
	Ant1	5510	-0.51	≤11.00	3.50	---	PASS
	Ant2	5510	-0.15	≤11.00	3.86	---	PASS
	total	5510	2.68	≤9.98	9.70	---	PASS
	Ant1	5550	0.01	≤11.00	4.02	---	PASS
	Ant2	5550	-0.17	≤11.00	3.84	---	PASS
	total	5550	2.93	≤9.98	9.95	---	PASS
	Ant1	5670	-0.33	≤11.00	3.68	---	PASS
	Ant2	5670	-0.21	≤11.00	3.80	---	PASS
	total	5670	2.74	≤9.98	9.76	---	PASS
	Ant1	5710_UNII-2C	-0.76	≤11.00	3.25	---	PASS
	Ant2	5710_UNII-2C	-0.88	≤11.00	3.13	---	PASS
	total	5710_UNII-2C	2.19	≤9.98	9.21	---	PASS
	Ant1	5710_UNII-3	-7.47	≤30.00	-3.46	---	PASS
	Ant2	5710_UNII-3	-6.70	≤30.00	-2.69	---	PASS
	total	5710_UNII-3	-4.06	≤28.98	2.96	---	PASS
	Ant1	5755	-4.59	≤30.00	-0.58	---	PASS
	Ant2	5755	-3.97	≤30.00	0.04	---	PASS
	total	5755	-1.26	≤28.98	5.76	---	PASS
	Ant1	5795	-3.80	≤30.00	0.21	---	PASS
	Ant2	5795	-3.63	≤30.00	0.38	---	PASS
	total	5795	-0.70	≤28.98	6.32	---	PASS
11AC80MIMO	Ant1	5210	-6.54	≤11.00	-2.53	≤10.00	PASS
	Ant2	5210	-5.09	≤11.00	-1.08	≤10.00	PASS
	total	5210	-2.74	≤9.98	4.28	≤10.00	PASS
	Ant1	5290	-4.54	≤11.00	-0.53	---	PASS
	Ant2	5290	-4.18	≤11.00	-0.17	---	PASS
	total	5290	-1.35	≤9.98	5.67	---	PASS
	Ant1	5530	-3.97	≤11.00	0.04	---	PASS
	Ant2	5530	-3.81	≤11.00	0.20	---	PASS
	total	5530	-0.88	≤9.98	6.14	---	PASS
	Ant1	5610	-4.65	≤11.00	-0.64	---	PASS
	Ant2	5610	-3.91	≤11.00	0.10	---	PASS
	total	5610	-1.25	≤9.98	5.77	---	PASS
	Ant1	5690_UNII-2C	-3.61	≤11.00	0.40	---	PASS
	Ant2	5690_UNII-2C	-4.04	≤11.00	-0.03	---	PASS
	total	5690_UNII-2C	-0.81	≤9.98	6.21	---	PASS
	Ant1	5690_UNII-3	-10.95	≤30.00	-6.94	---	PASS
	Ant2	5690_UNII-3	-10.62	≤30.00	-6.61	---	PASS
	total	5690_UNII-3	-7.77	≤28.98	-0.75	---	PASS
	Ant1	5775	-7.75	≤30.00	-3.74	---	PASS

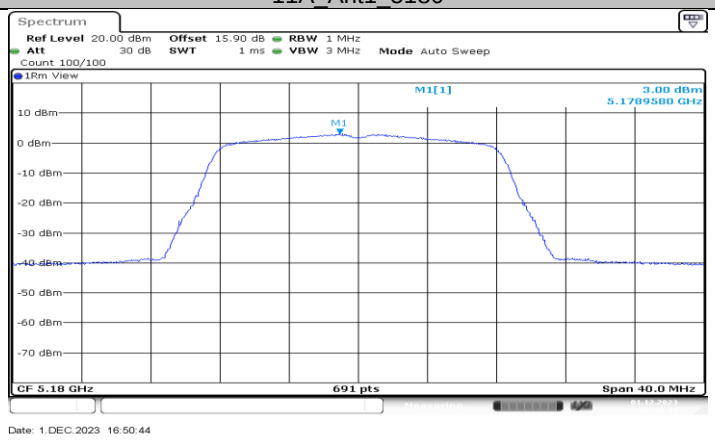
	Ant2	5775	-6.94	≤30.00	-2.93	---	PASS
	total	5775	-4.32	≤28.98	2.70	---	PASS

Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

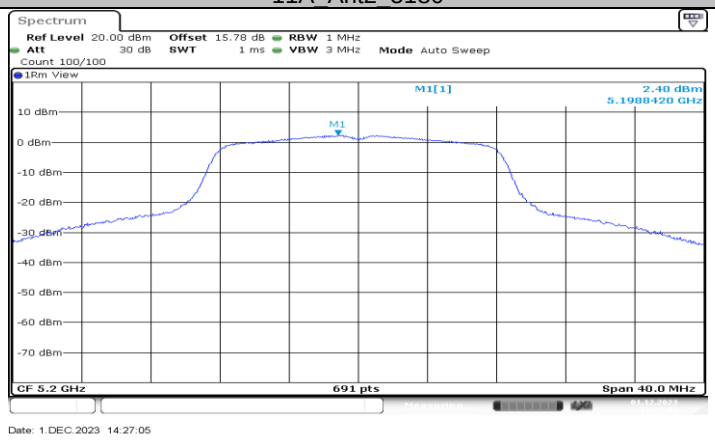
11.5.2. Test Graphs



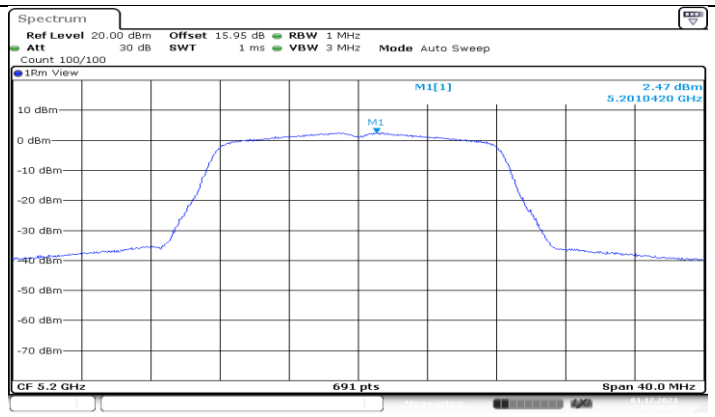
11A_Ant1_5180



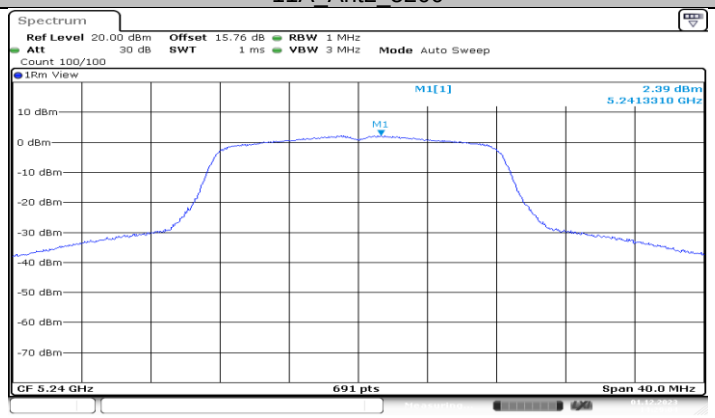
11A_Ant2_5180



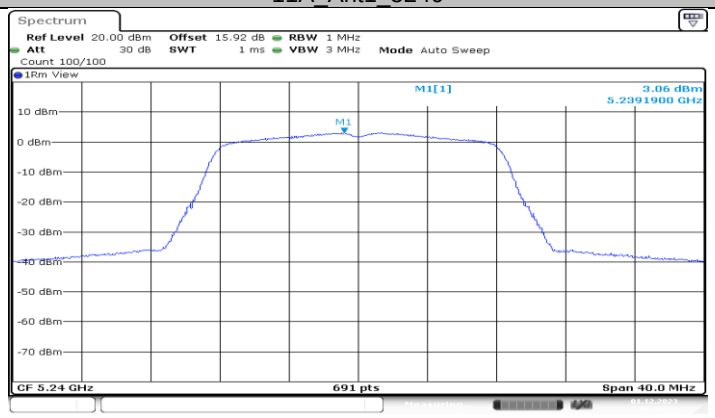
11A_Ant1_5200



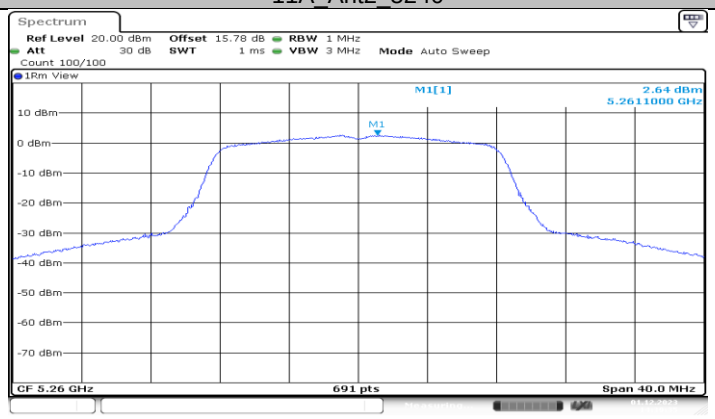
11A_Ant2_5200



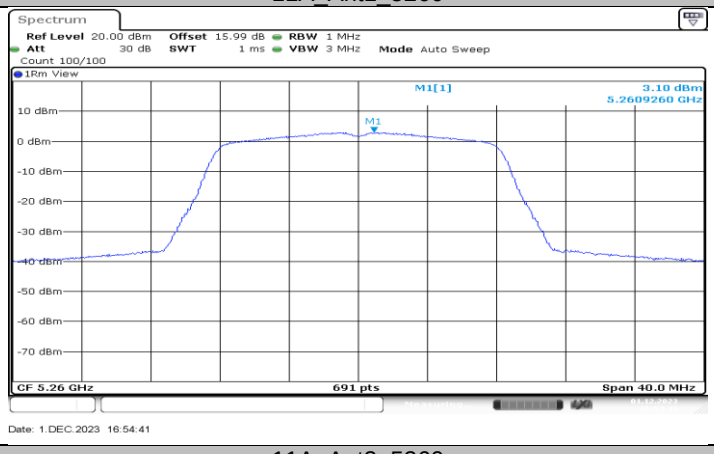
11A_Ant1_5240



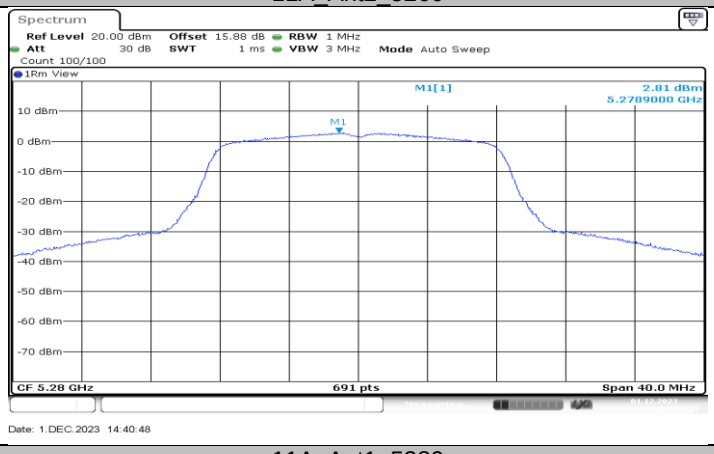
11A_Ant2_5240



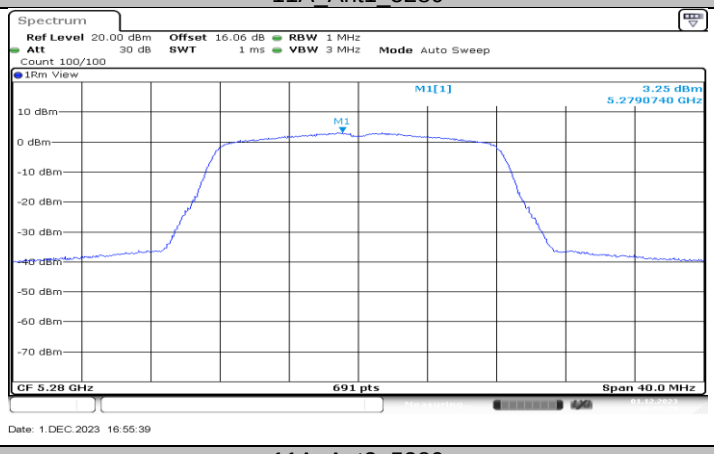
11A_Ant1_5260



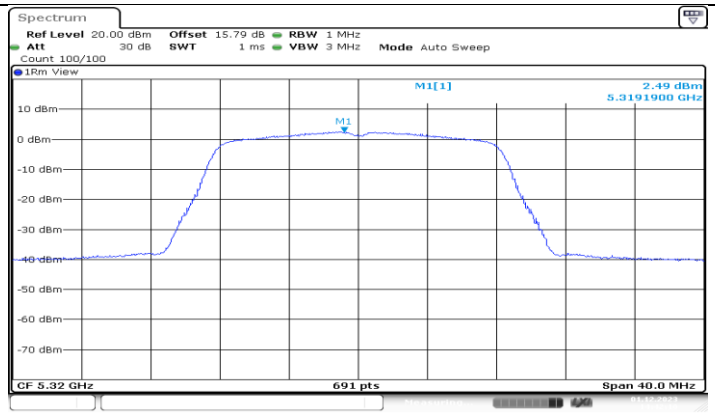
11A_Ant2_5260



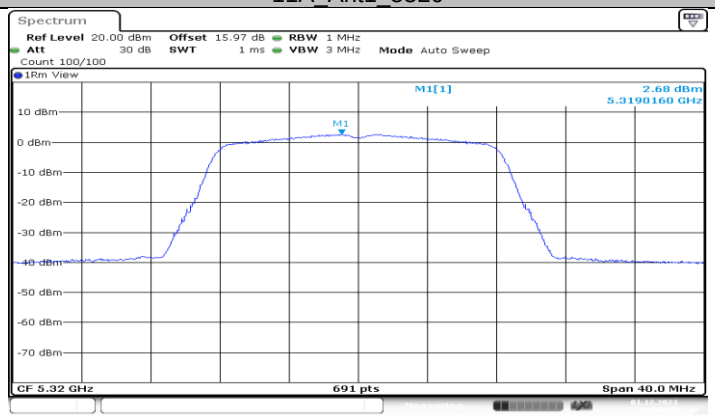
11A_Ant1_5280



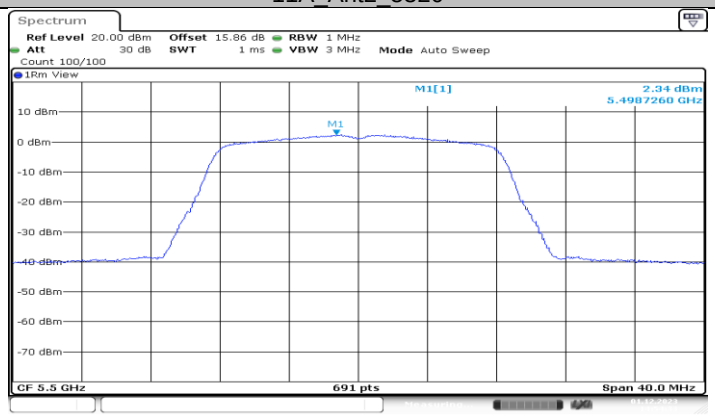
11A_Ant2_5280



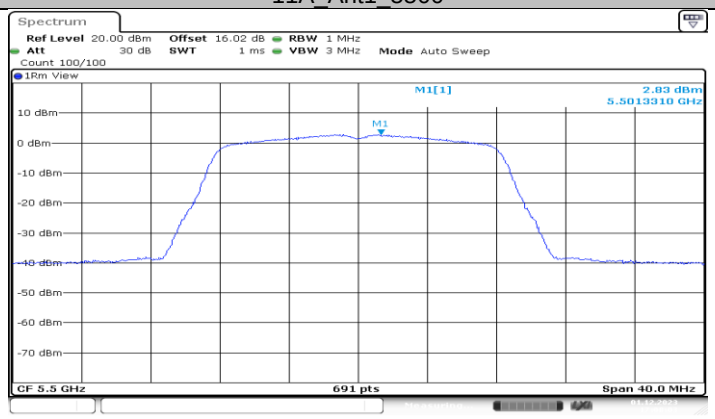
11A_Ant1_5320



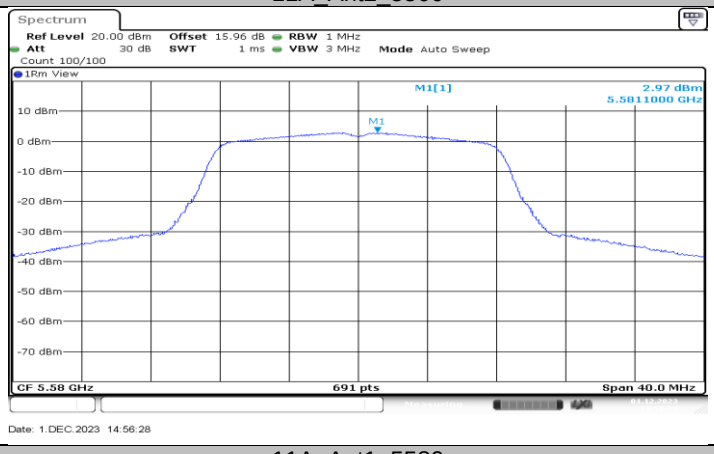
11A_Ant2_5320



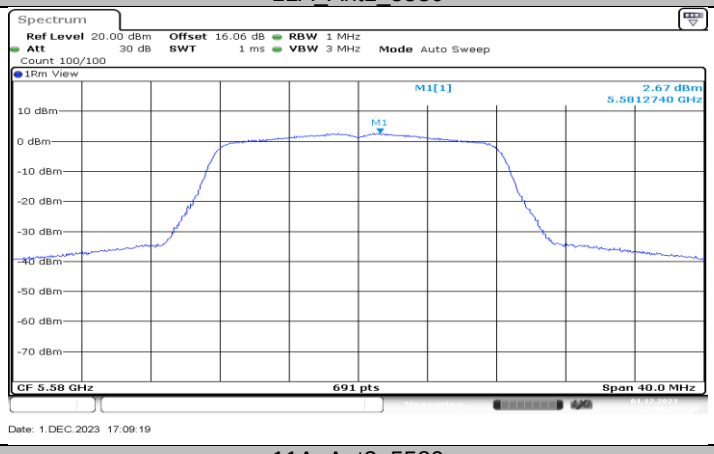
11A_Ant1_5500



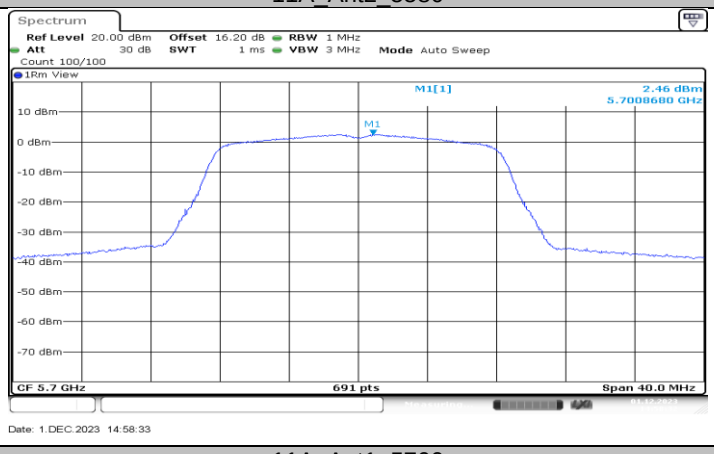
11A_Ant2_5500



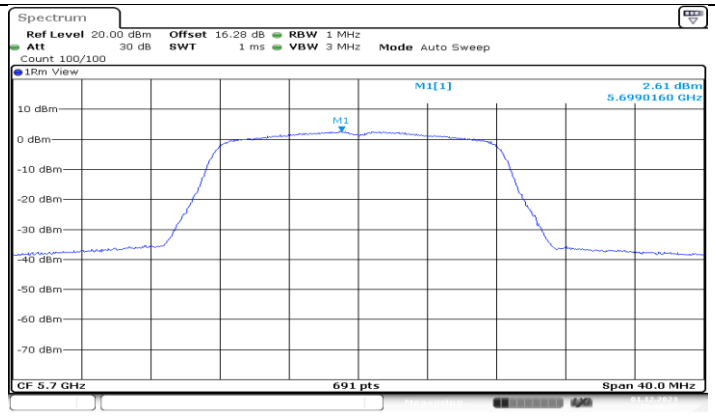
11A_Ant1_5580



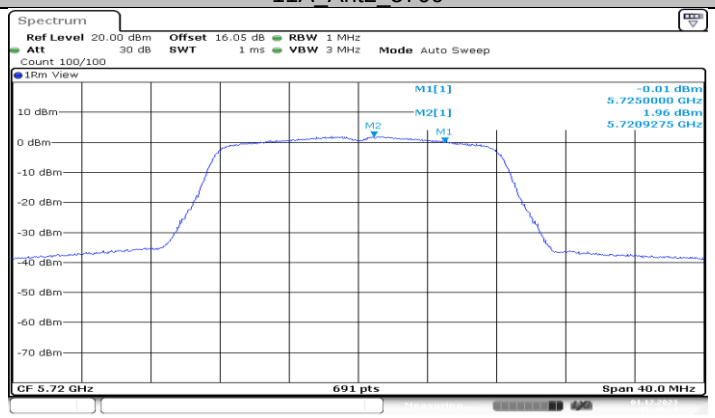
11A_Ant2_5580



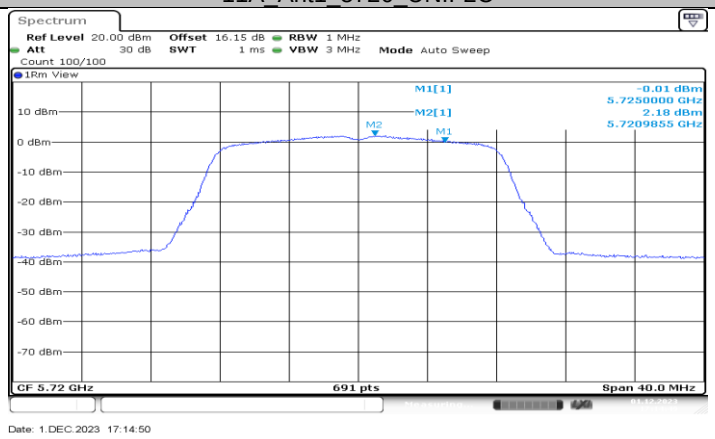
11A_Ant1_5700



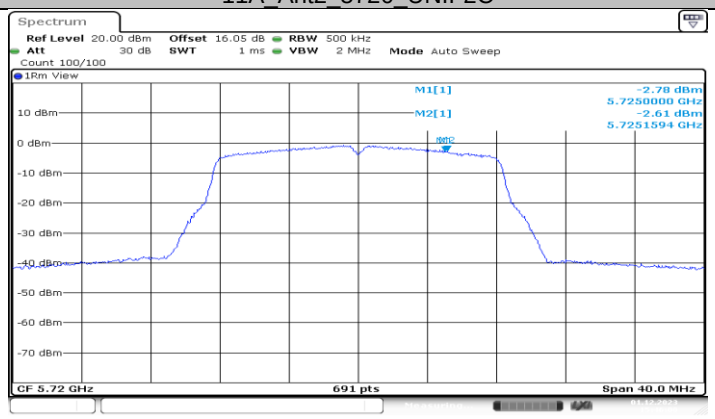
11A_Ant2_5700



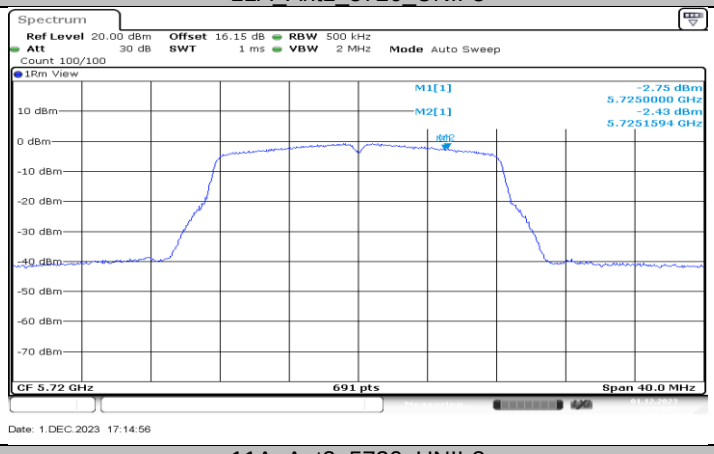
11A_Ant1_5720_UNII-2C



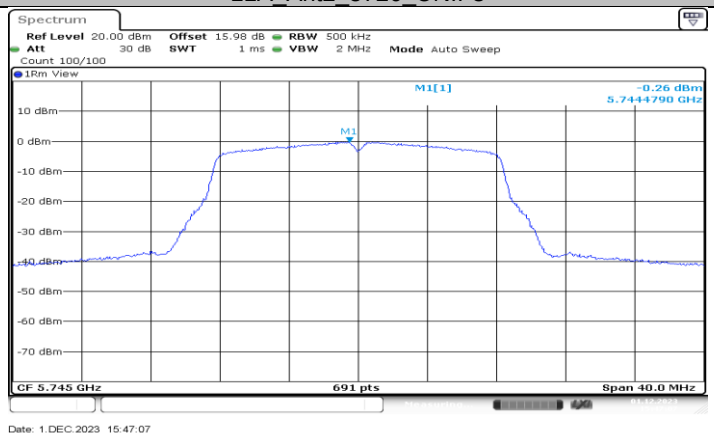
11A_Ant2_5720_UNII-2C



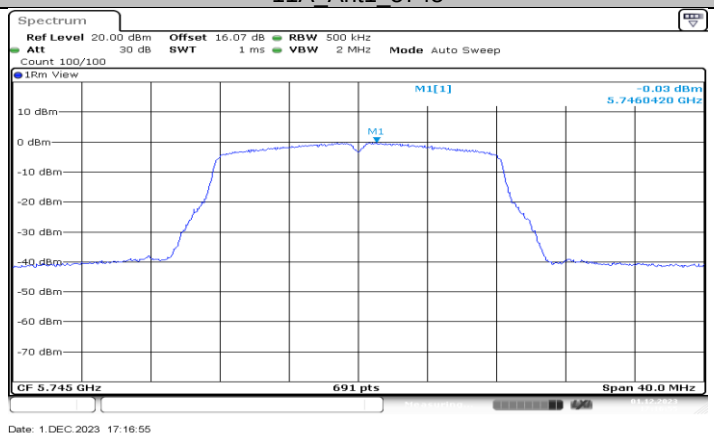
11A_Ant1_5720_UNII-3



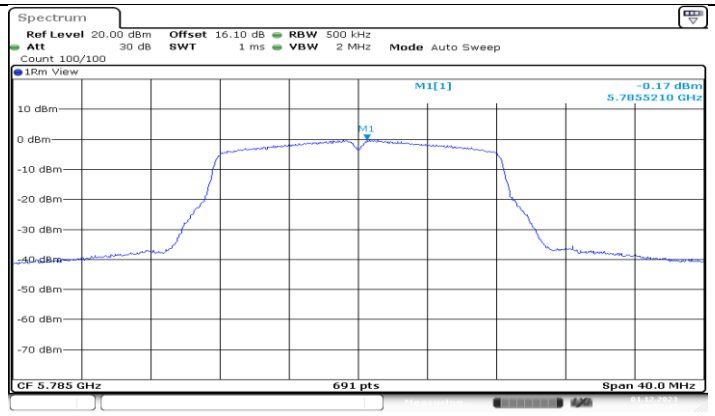
11A_Ant2_5720_UNII-3



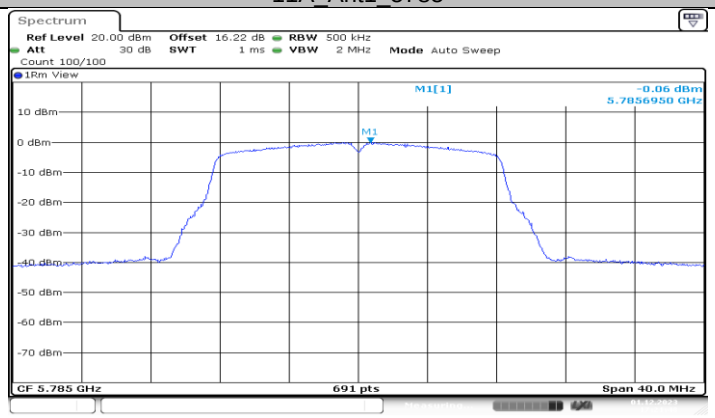
11A_Ant1_5745



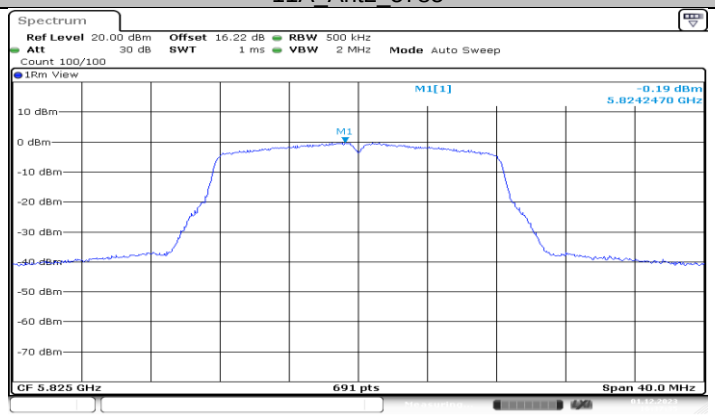
11A_Ant2_5745



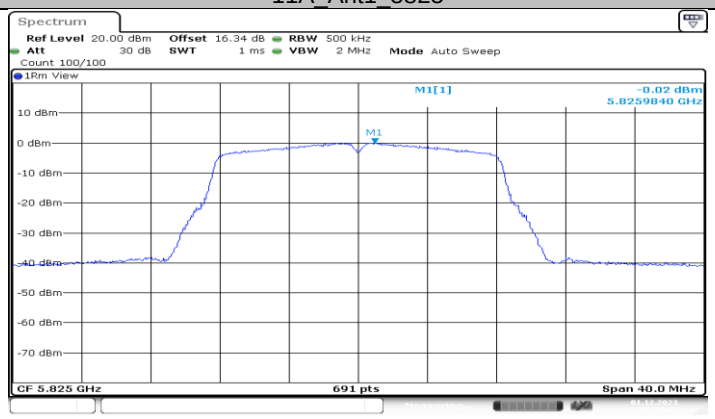
11A_Ant1_5785

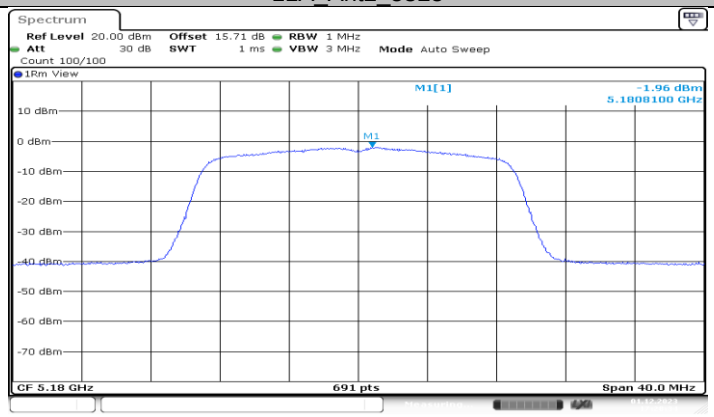
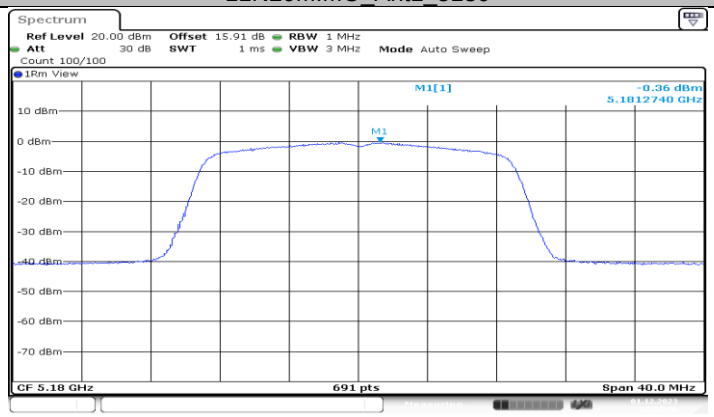
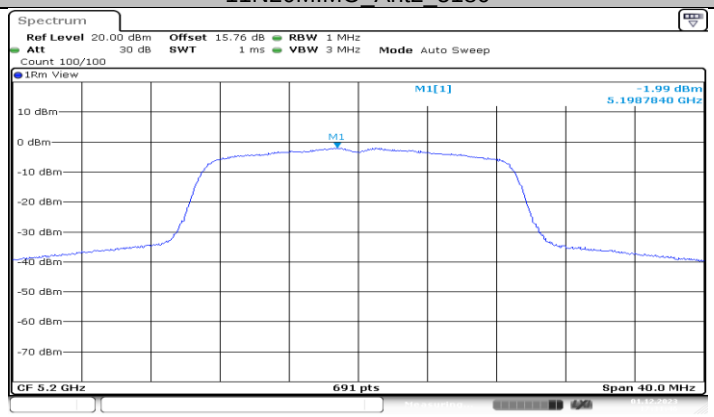


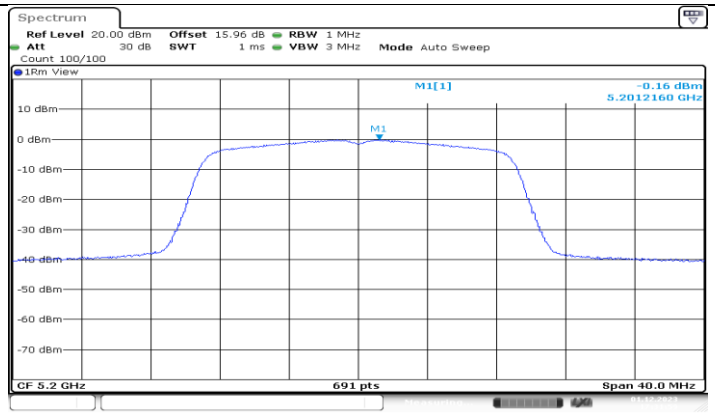
11A_Ant2_5785



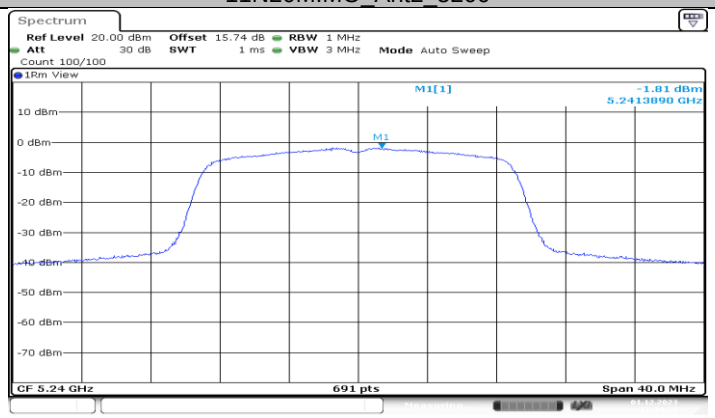
11A_Ant1_5825



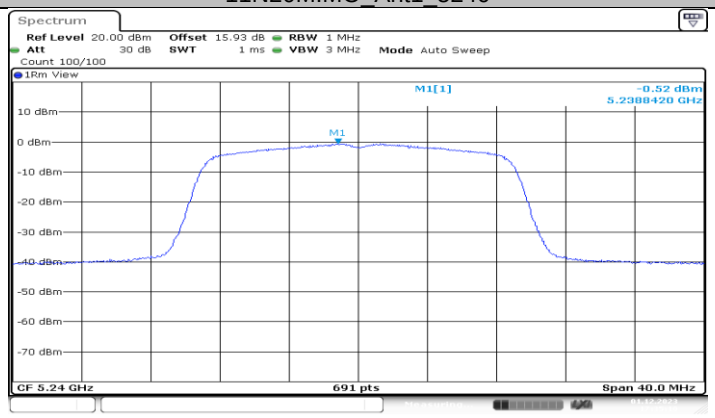
11A_Ant2_5825

11N20MIMO_Ant1_5180

11N20MIMO_Ant2_5180

11N20MIMO_Ant1_5200



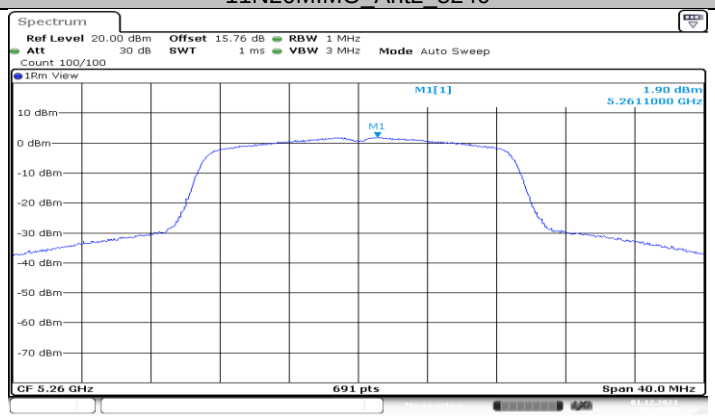
11N20MIMO_Ant2_5200



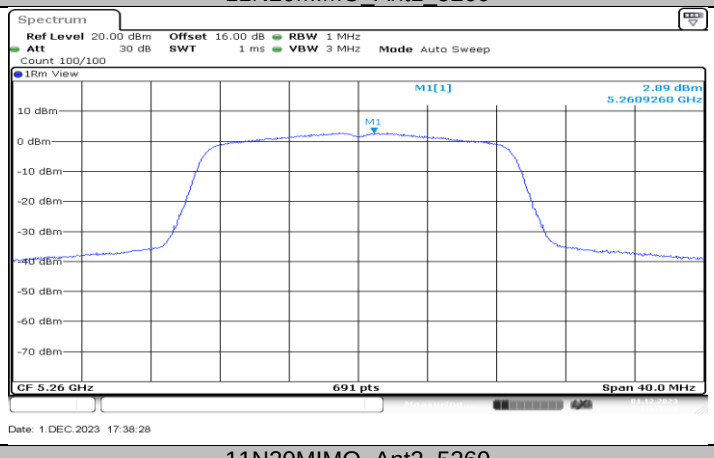
11N20MIMO_Ant1_5240



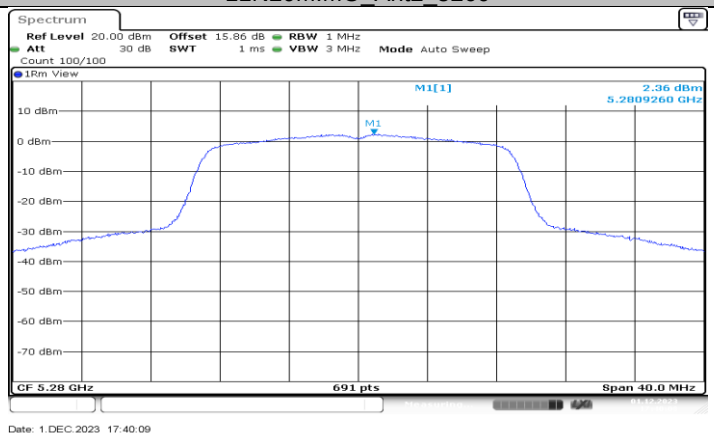
11N20MIMO_Ant2_5240



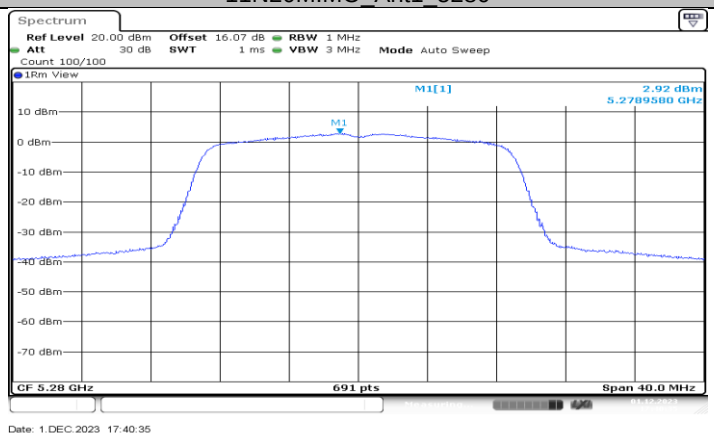
11N20MIMO_Ant1_5260



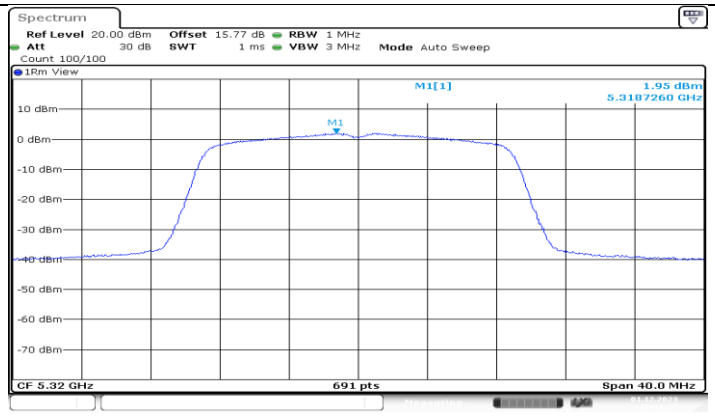
11N20MIMO_Ant2_5260



11N20MIMO_Ant1_5280



11N20MIMO_Ant2_5280



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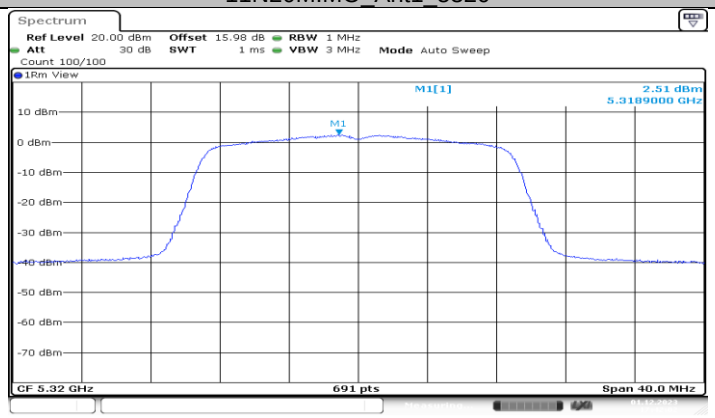

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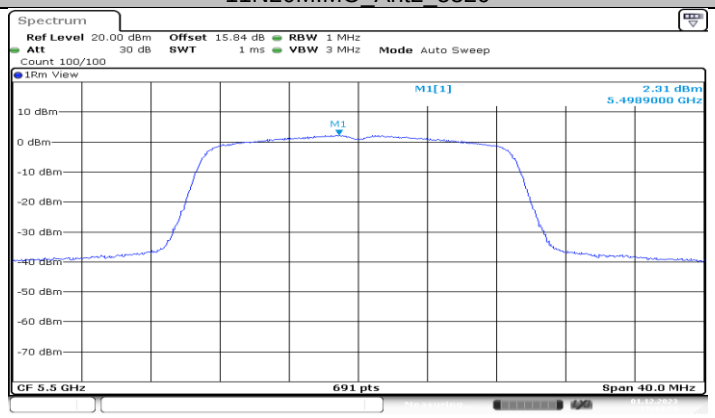

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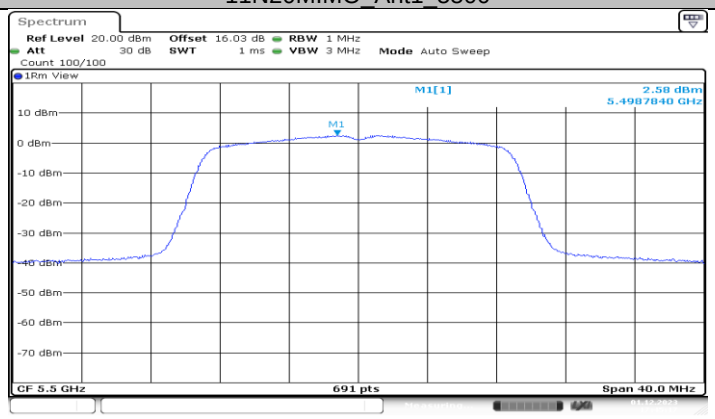

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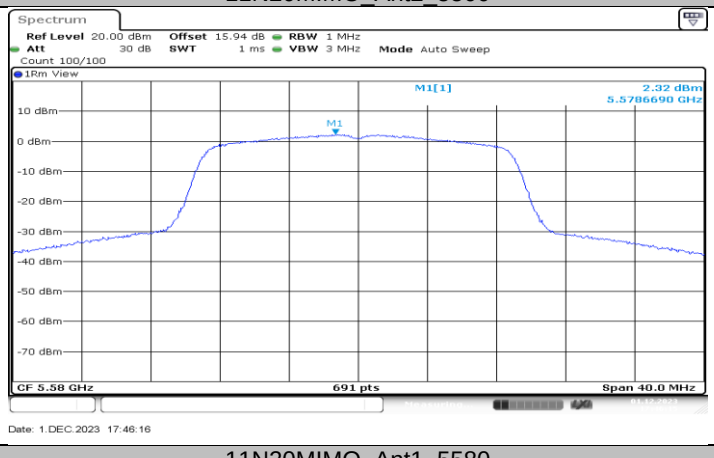

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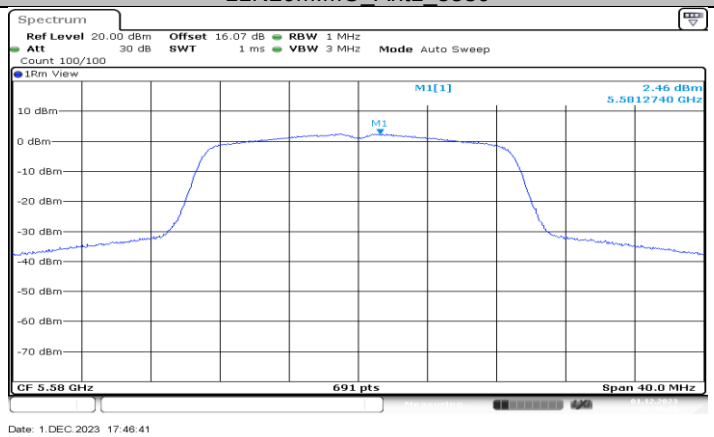

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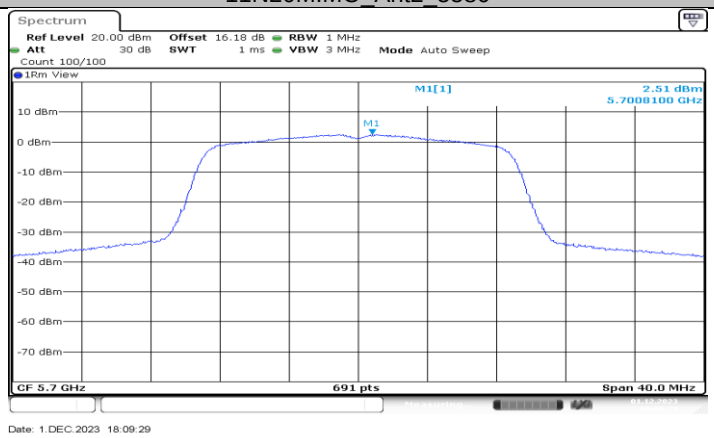

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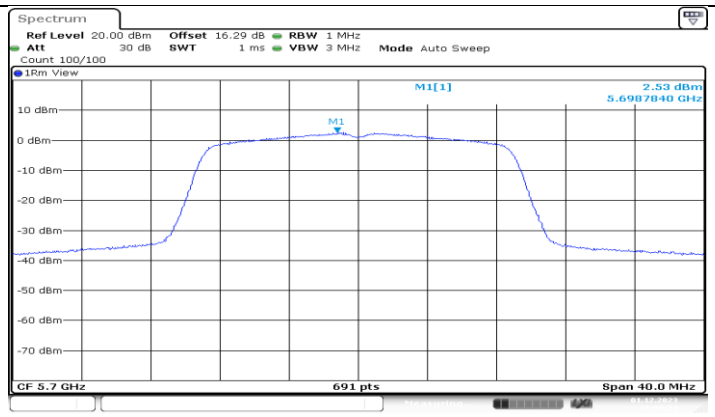

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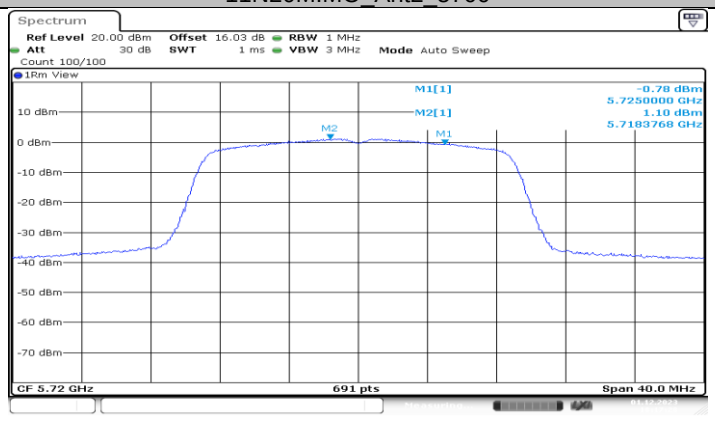

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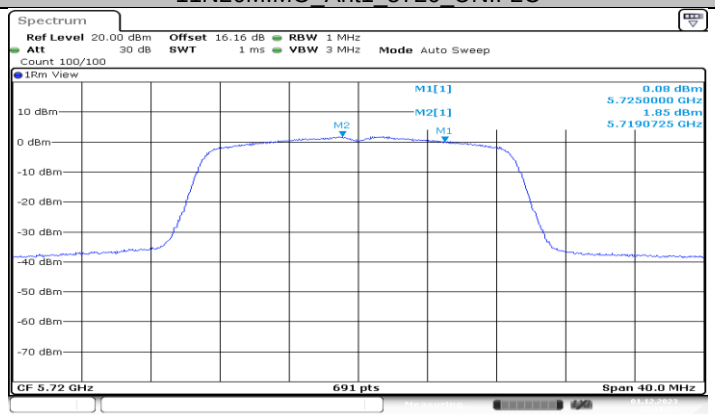

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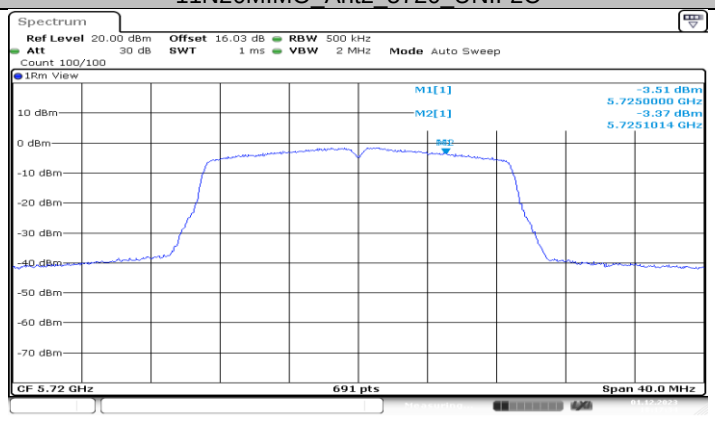

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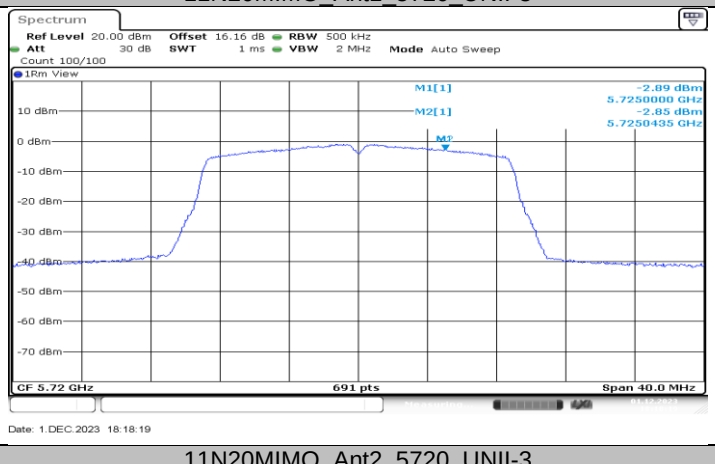
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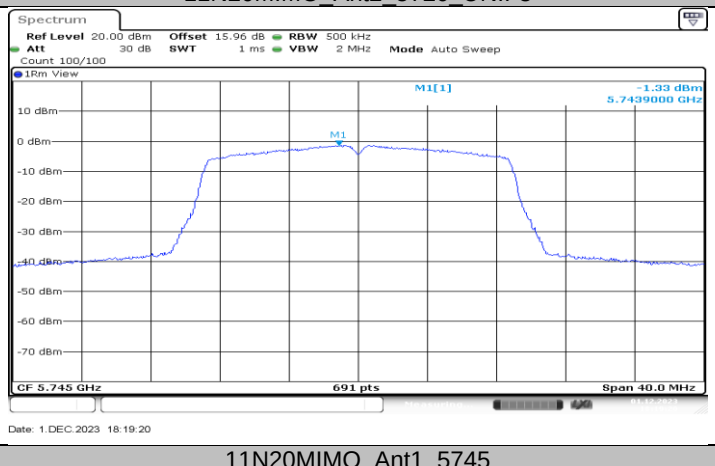
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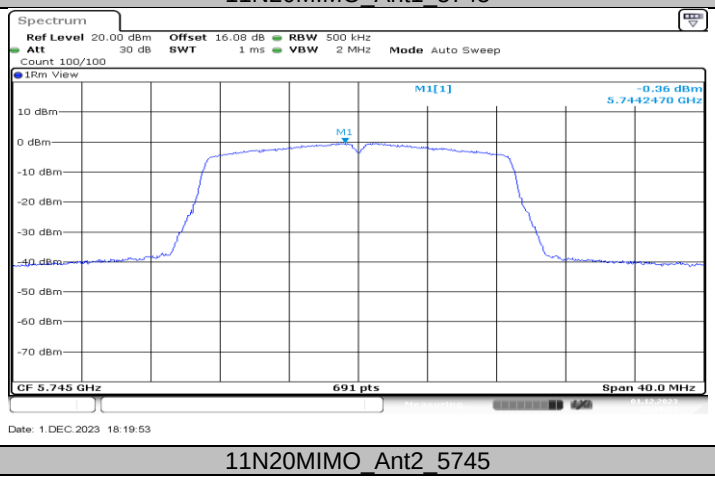
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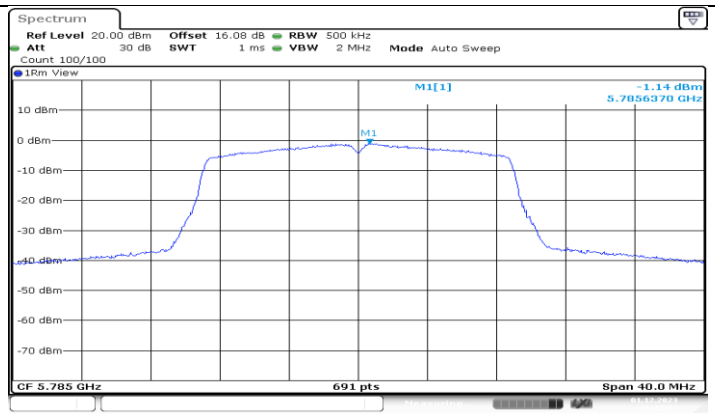

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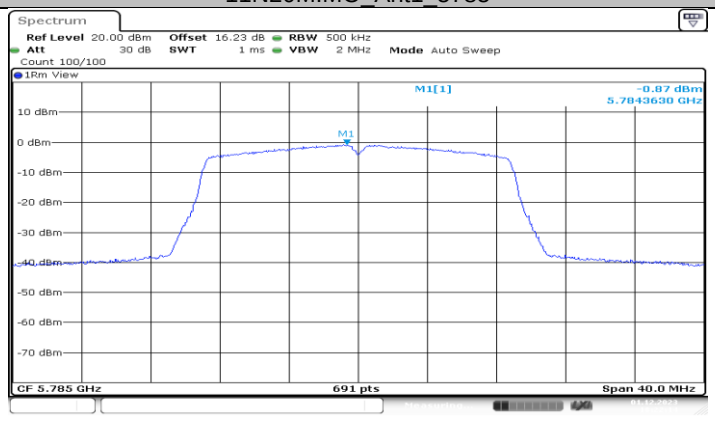

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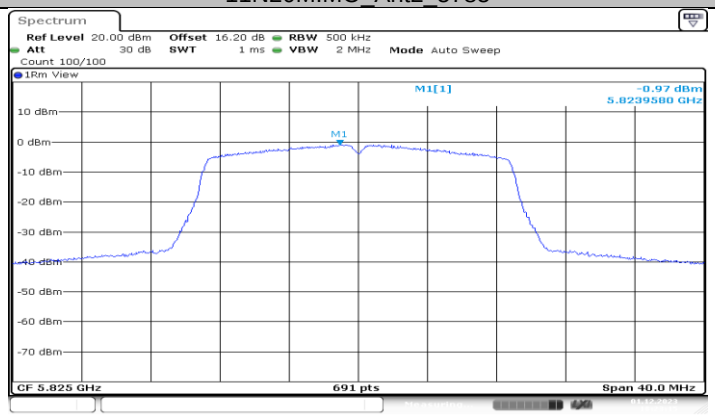

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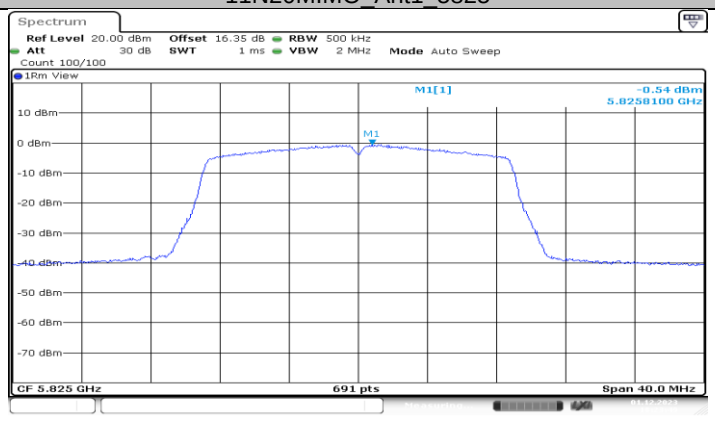

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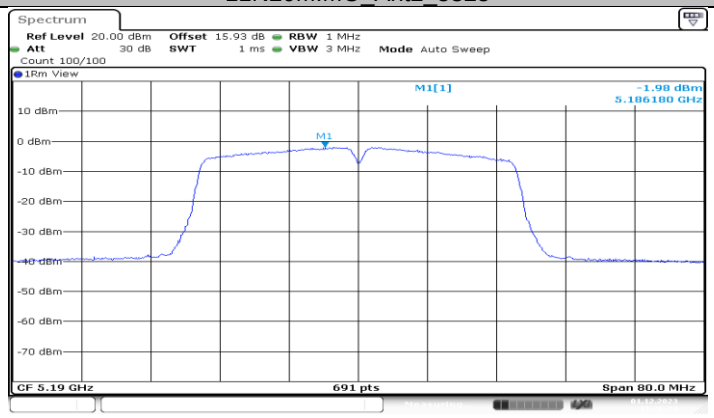

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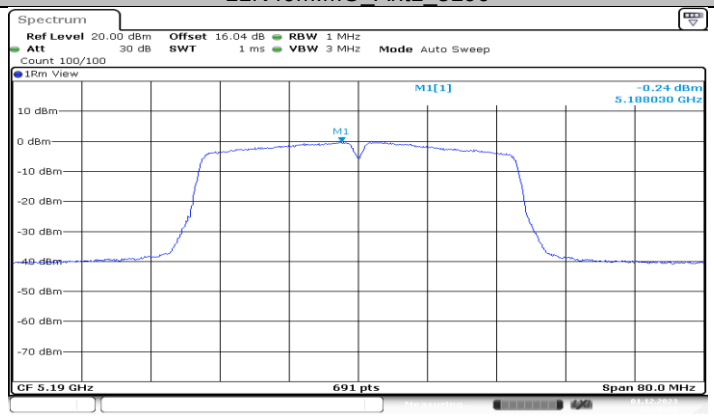
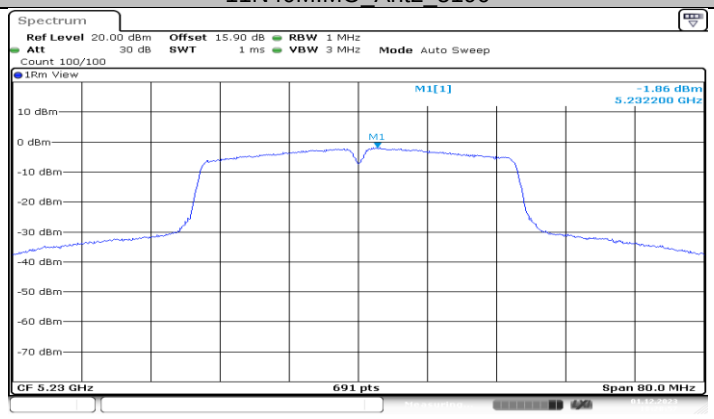
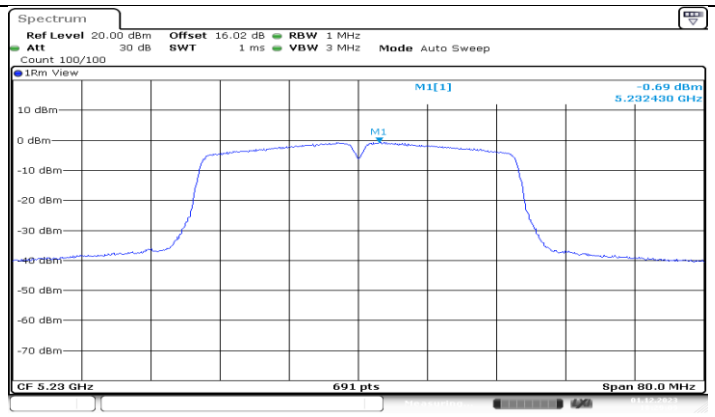


11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



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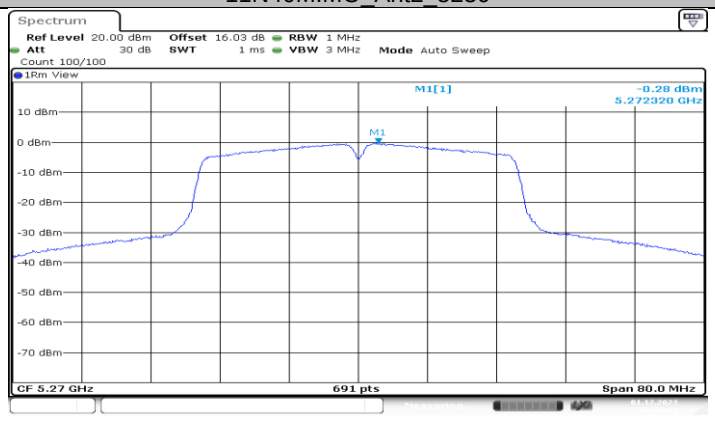

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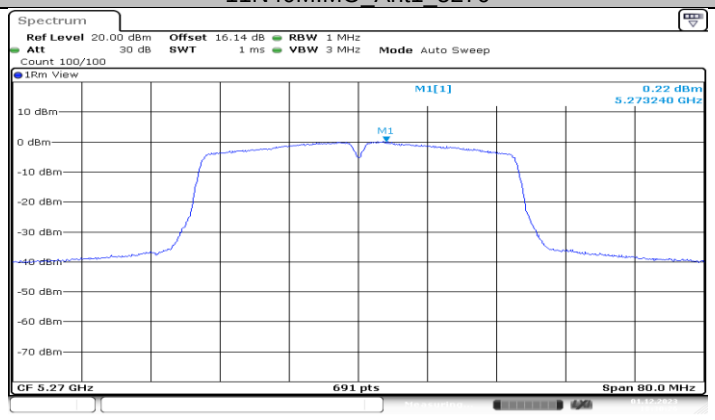

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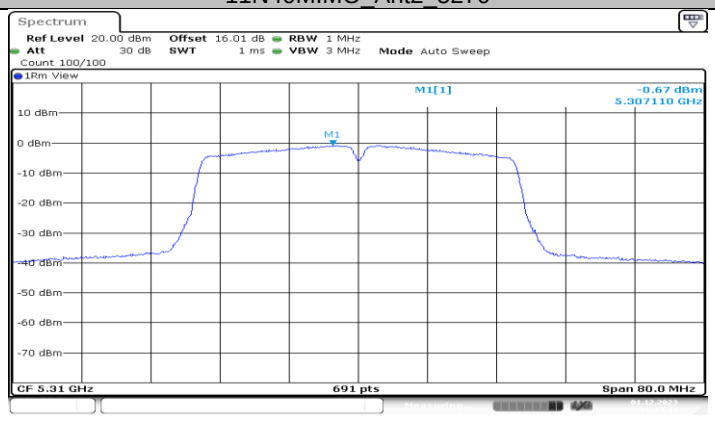

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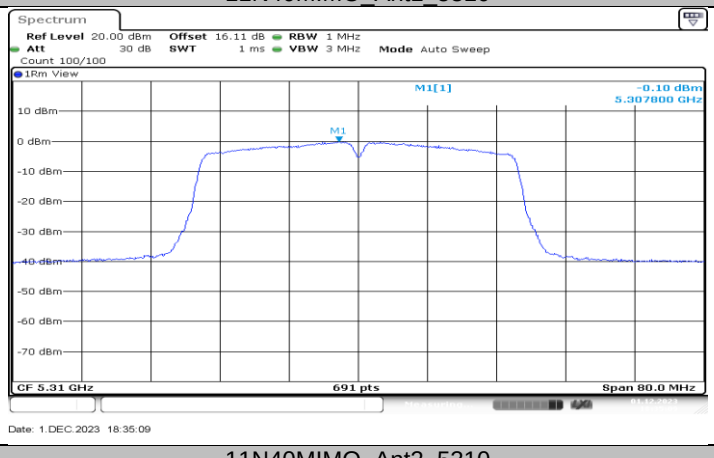

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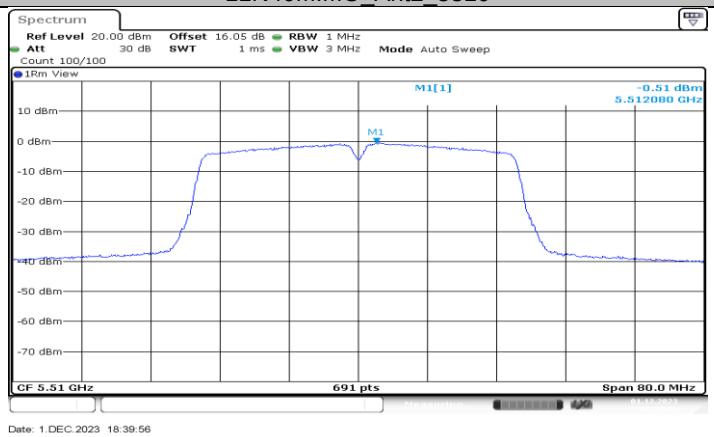

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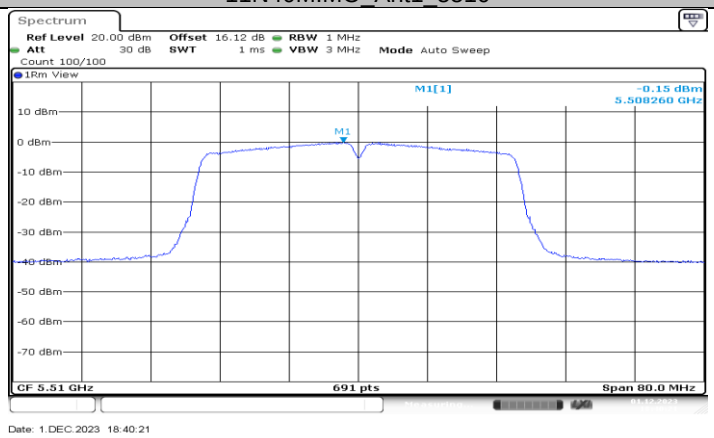

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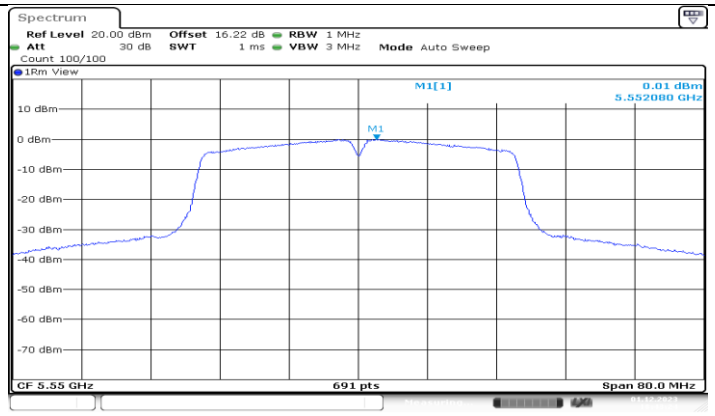

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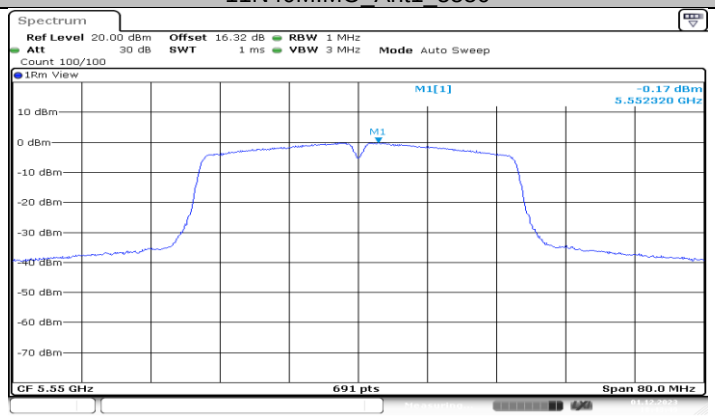

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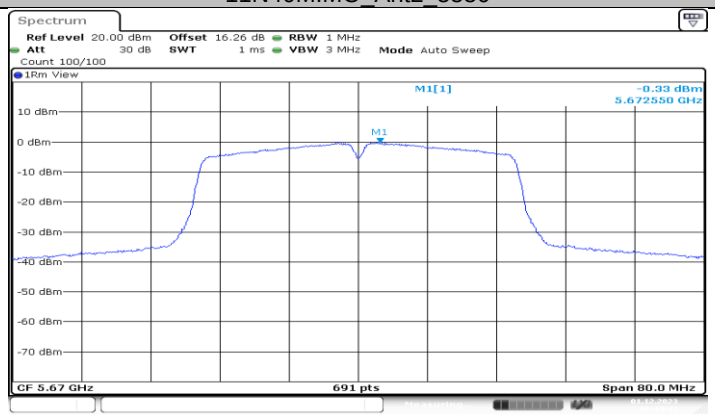
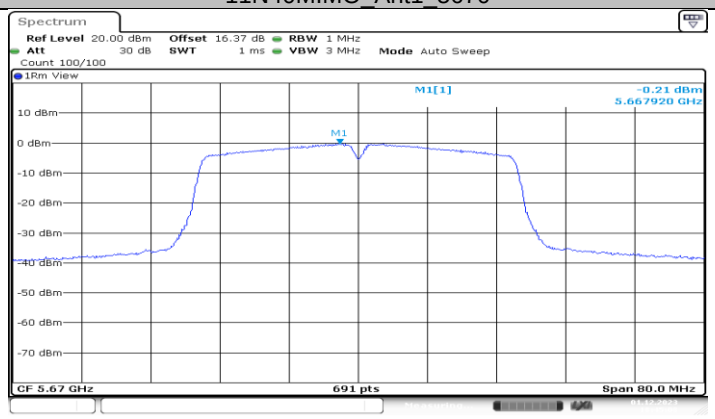
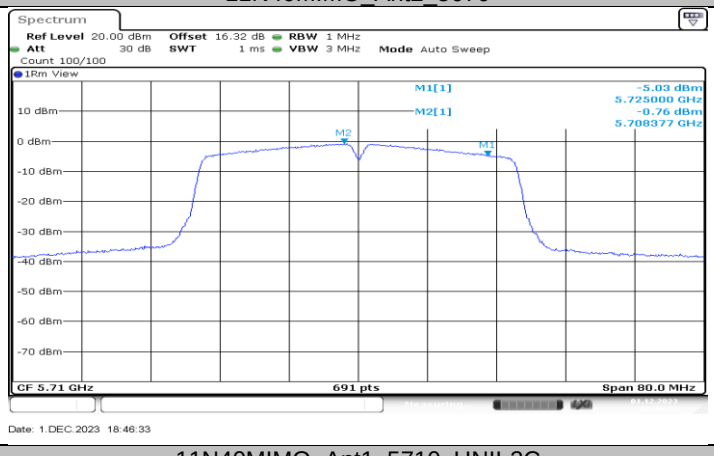


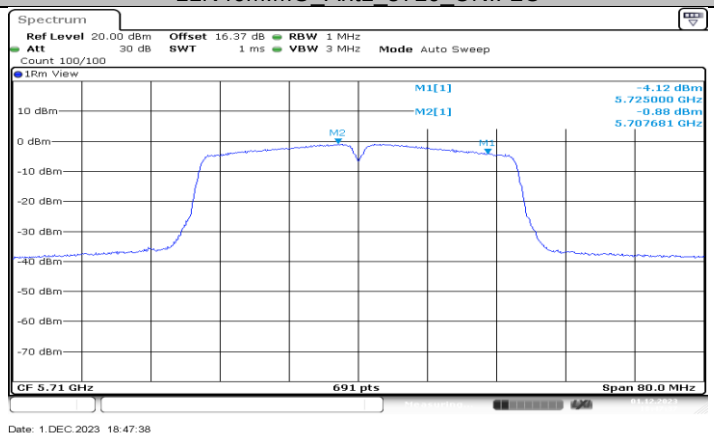
11N40MIMO_Ant1_5670



11N40MIMO_Ant2_5670



11N40MIMO_Ant1_5710_UNII-2C



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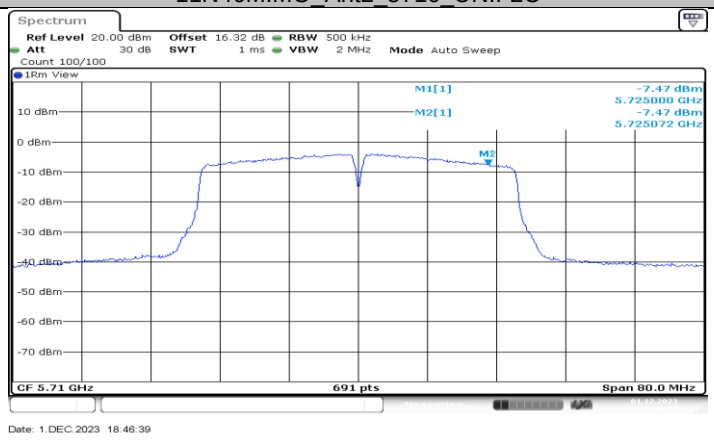

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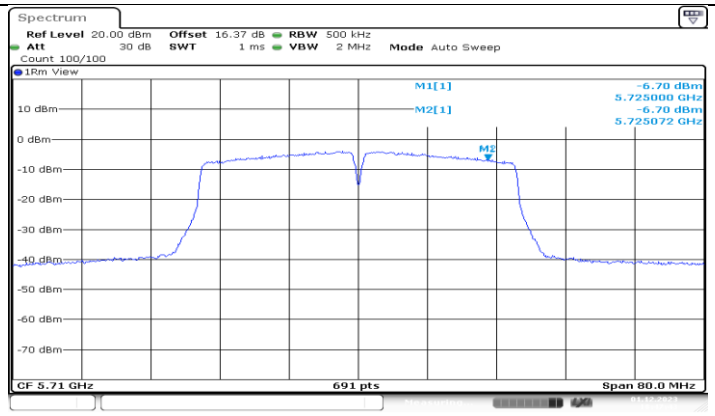

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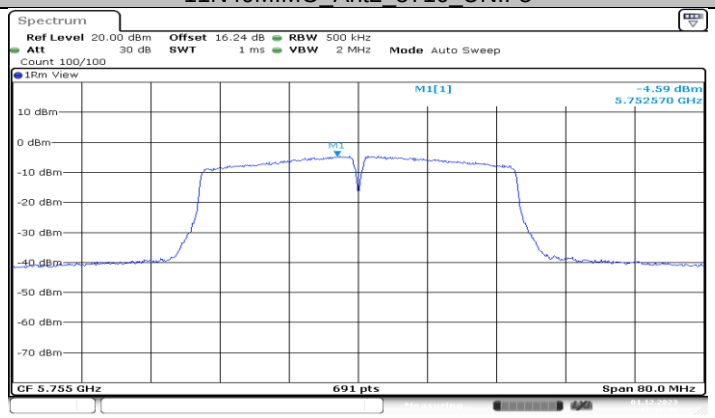

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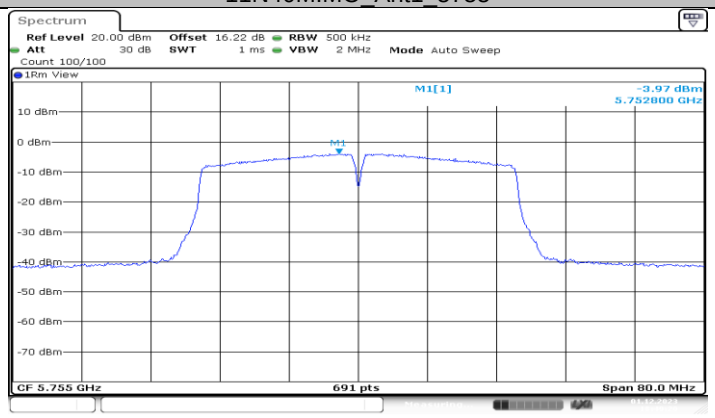

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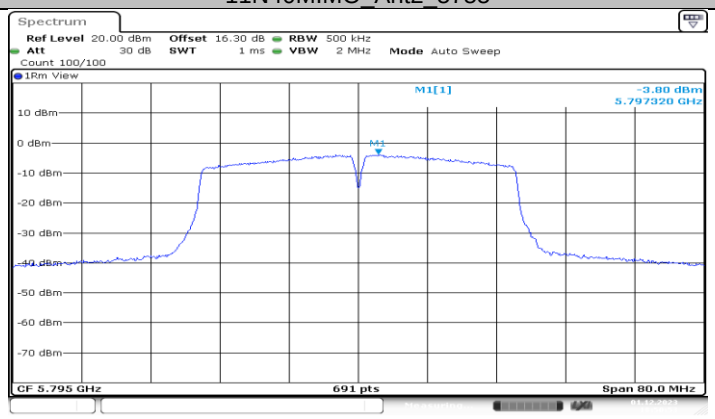

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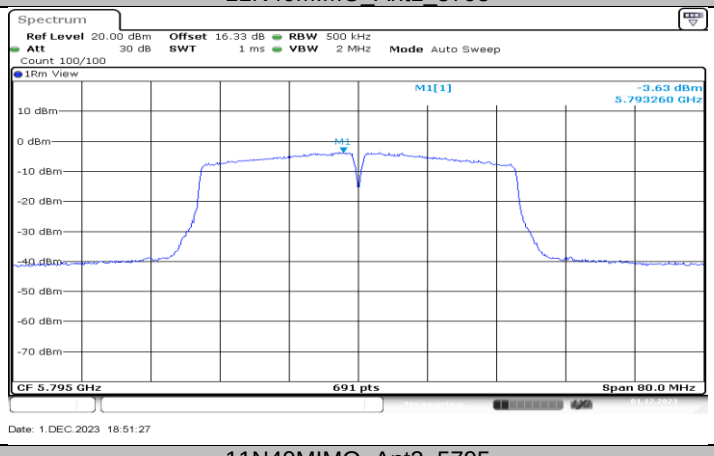

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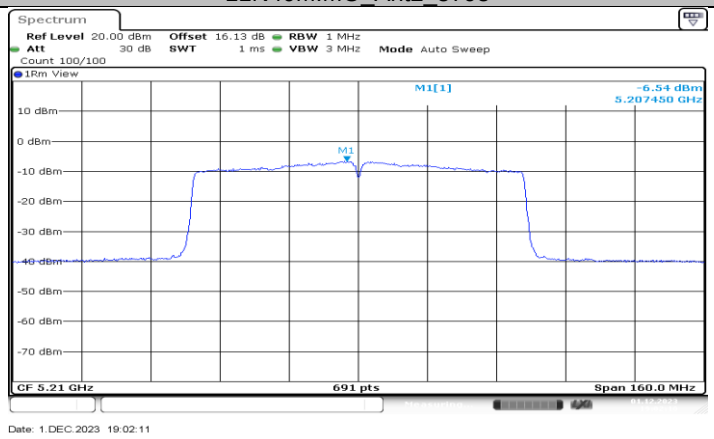

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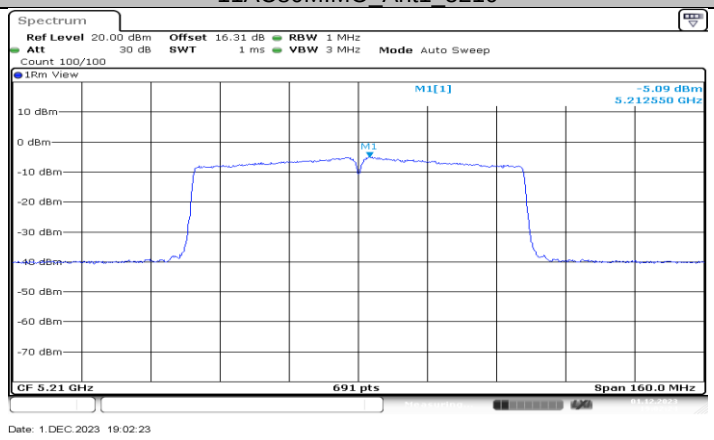

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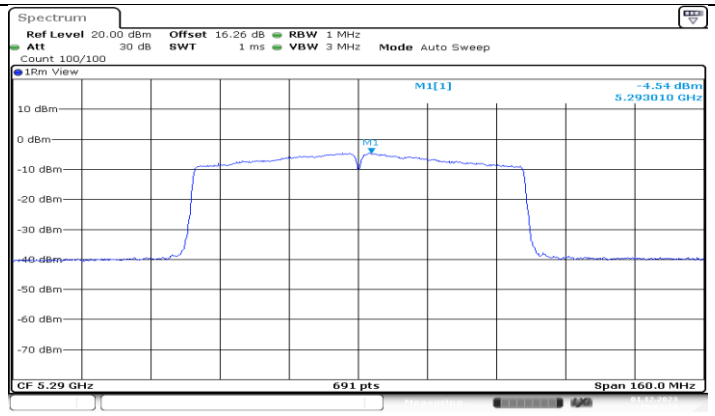
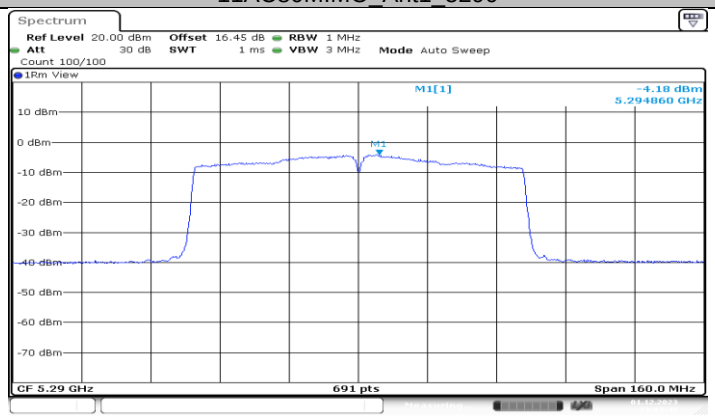


11AC80MIMO_Ant1_5290



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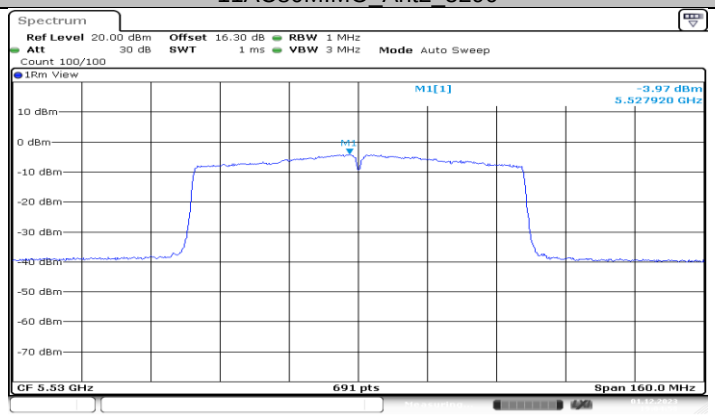

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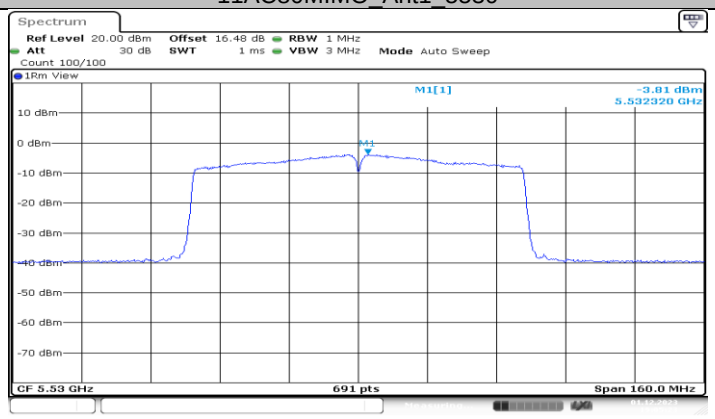

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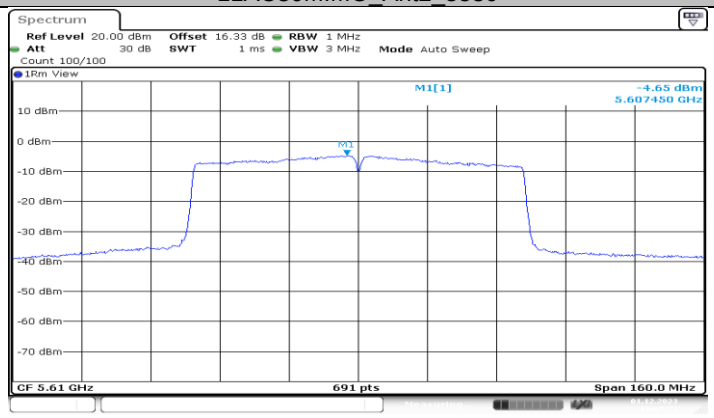

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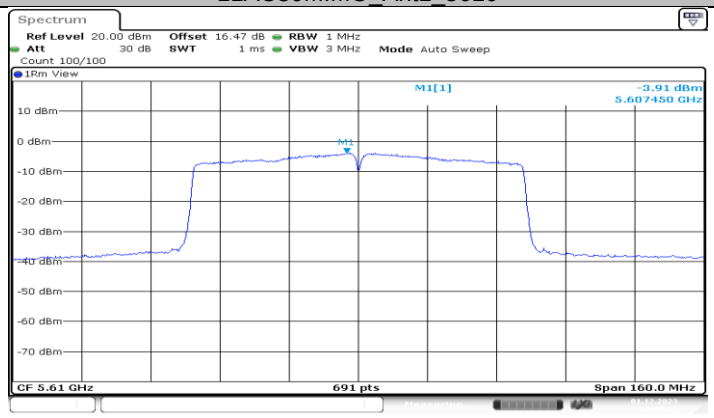

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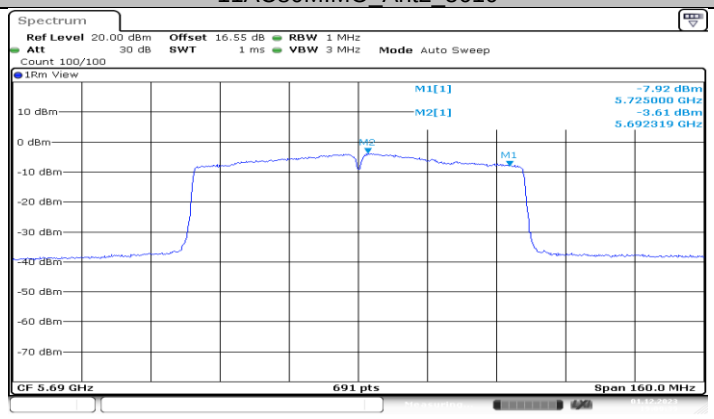
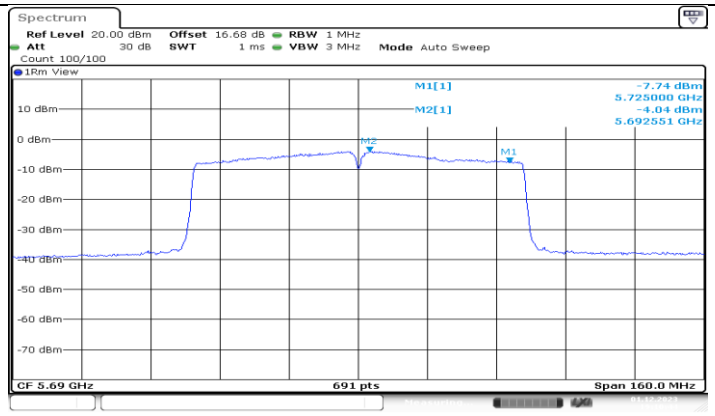


11AC80MIMO_Ant1_5690_UNII-2C



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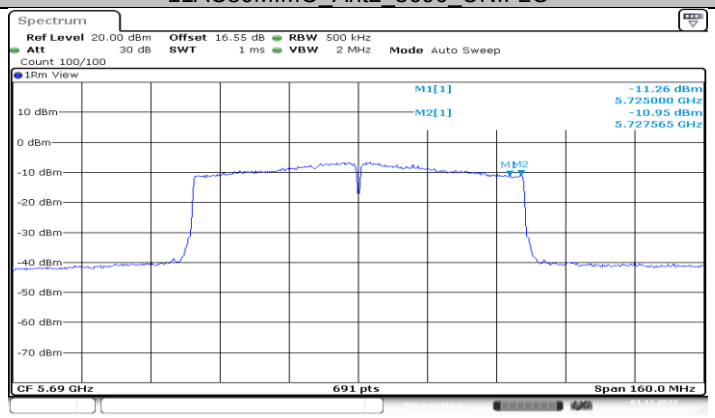
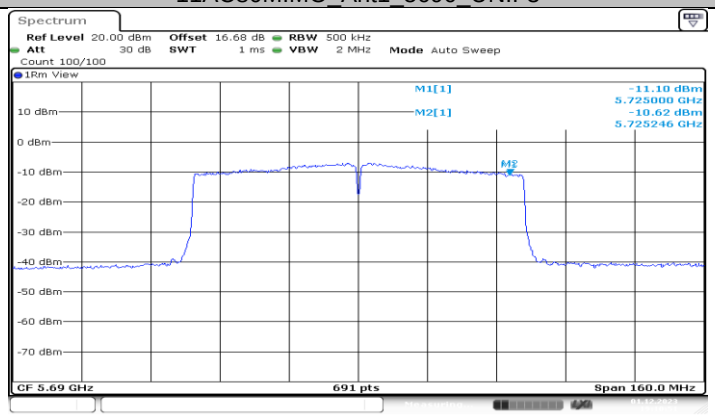
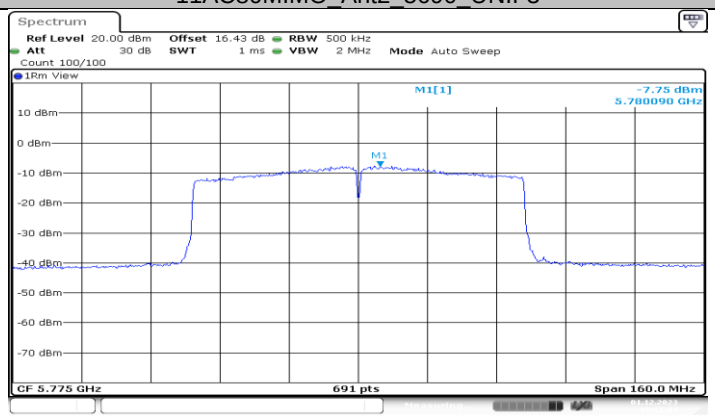
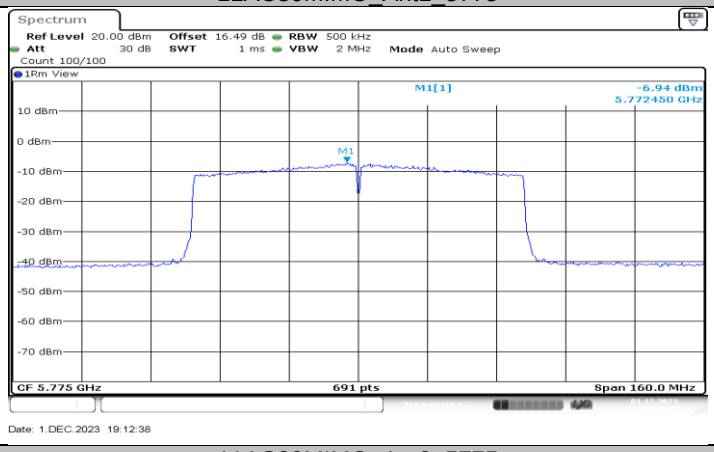


11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3



11AC80MIMO_Ant1_5775

11AC80MIMO_Ant2_5775

11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5180.0011	0.21	5180.0130	2.50	5180.0066	1.27	5179.9927	-1.41
TN	VN	5179.9961	-0.75	5179.9979	-0.40	5179.9837	-3.15	5179.9824	-3.40
TN	VH	5179.9810	-3.66	5179.9840	-3.08	5180.0128	2.48	5180.0022	0.42
Frequency Error vs. Temperature									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
70	VN	5179.9828	-3.33	5180.0135	2.62	5179.9986	-0.27	5180.0013	0.25
60	VN	5179.9764	-4.56	5179.9951	-0.94	5180.0245	4.74	5179.9823	-3.42
50	VN	5179.9915	-1.63	5180.0235	4.53	5179.9895	-2.02	5180.0192	3.70
40	VN	5180.0028	0.54	5180.0047	0.90	5179.9963	-0.72	5179.9797	-3.93
30	VN	5179.9837	-3.14	5180.0206	3.98	5179.9820	-3.47	5180.0130	2.52
20	VN	5180.0122	2.35	5180.0126	2.42	5179.9908	-1.77	5179.9754	-4.75
10	VN	5179.9882	-2.27	5179.9992	-0.16	5180.0182	3.52	5180.0223	4.30
0	VN	5180.0066	1.27	5180.0074	1.43	5179.9795	-3.96	5179.9862	-2.67

Note:
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.0086	1.47	5824.9950	-0.86	5824.9807	-3.31	5825.0023	0.40
TN	VN	5824.9766	-4.02	5825.0030	0.51	5824.9914	-1.48	5825.0044	0.75
TN	VH	5824.9910	-1.54	5824.9866	-2.30	5824.9794	-3.54	5824.9972	-0.47
Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
70	VN	5824.9786	-3.68	5825.0029	0.49	5824.9873	-2.17	5824.9847	-2.62
60	VN	5825.0166	2.84	5824.9915	-1.45	5825.0217	3.72	5824.9962	-0.65
50	VN	5824.9769	-3.96	5824.9984	-0.28	5825.0184	3.16	5824.9770	-3.95
40	VN	5825.0208	3.57	5825.0183	3.14	5825.0184	3.15	5824.9924	-1.30
30	VN	5825.0206	3.53	5824.9871	-2.22	5824.9899	-1.74	5825.0244	4.19
20	VN	5825.0037	0.63	5824.9977	-0.40	5824.9826	-2.98	5824.9778	-3.81
10	VN	5824.9892	-1.85	5824.9868	-2.27	5824.9911	-1.53	5825.0147	2.53
0	VN	5824.9953	-0.81	5824.9965	-0.59	5825.0129	2.22	5825.0021	0.35

Note:
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

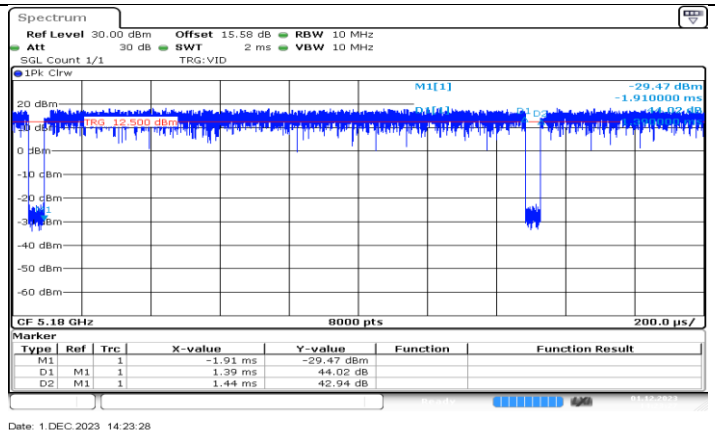
11.7. APPENDIX G: DUTY CYCLE

11.7.1. Test Result

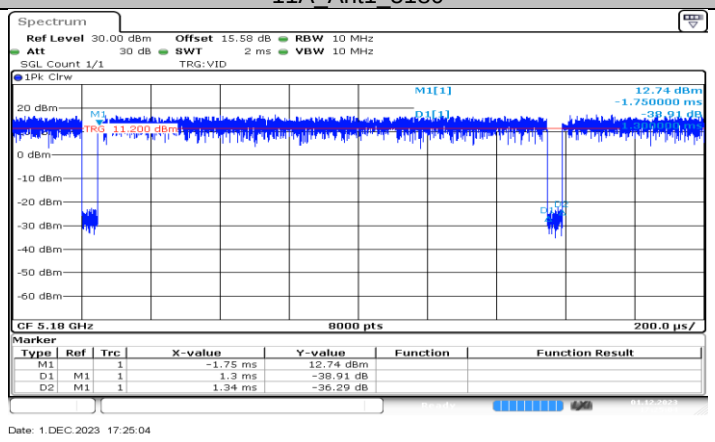
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.39	1.44	0.9653	96.53	0.15	0.72	1
11N20MIMO	1.3	1.34	0.9701	97.01	0.13	0.77	1
11N40MIMO	0.65	0.7	0.9286	92.86	0.32	1.54	2
11AC80MIMO	0.33	0.37	0.8919	89.19	0.50	3.03	4

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

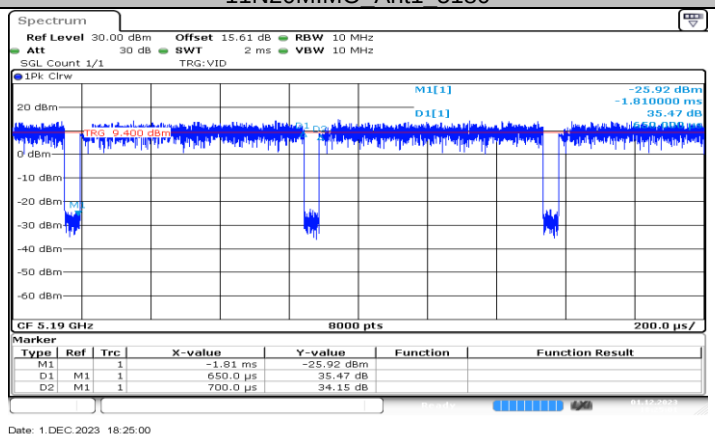
11.7.2. Test Graphs



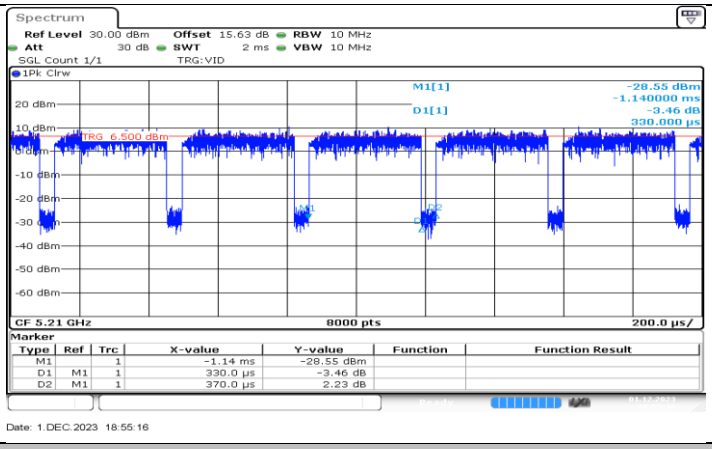
11A_Ant1_5180



11N20MIMO_Ant1_5180



11N40MIMO_Ant1_5190



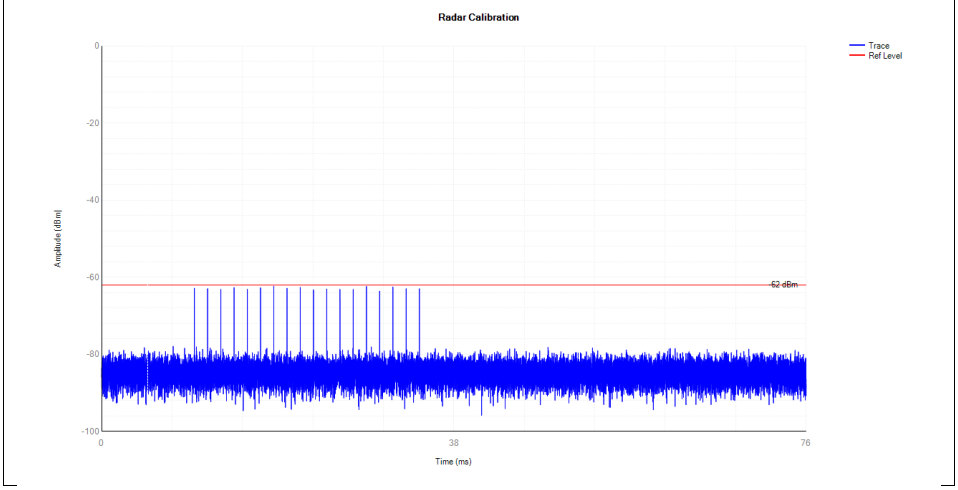
11AC80MIMO_Ant1_5210

11.8. APPENDIX H: CALIBRATION

Mode	Frequency (MHz)	Type	Result	Verdict
ac80	5530	DFS_FCC_T0	See test Graph	Pass

Test Graphs

5530MHz DFS_FCC_T0



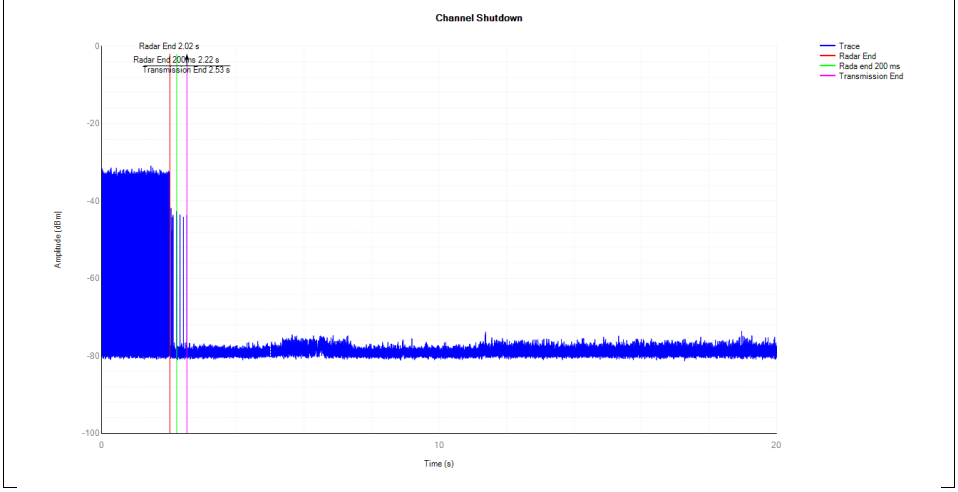
11.9. APPENDIX I: SHUTDOWN TIME

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5530	0.504	10	0.013	0.26	0.006	0.06	Pass

Note: Refer to KDB905462 table 2, only the widest BW mode data recorded in the report.

Test Graphs

ac80 5530MHz Shutdown



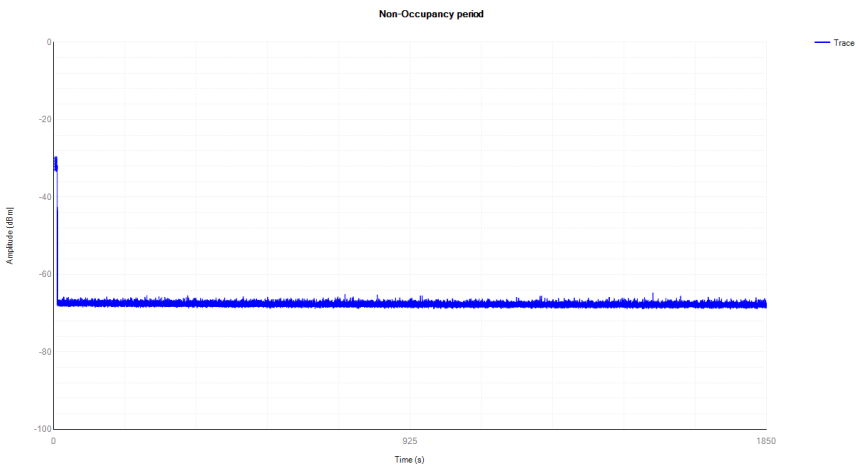
11.10. APPENDIX J: NON-OCCUPANCY

Mode	Frequency (MHz)	Result	Verdict
ac80	5530	See test Graph	Pass

Note: Refer to KDB905462 table 2, only the widest BW mode data recorded in the report.

Test Graphs

ac80 5530MHz Non-Occupancy



END OF REPORT