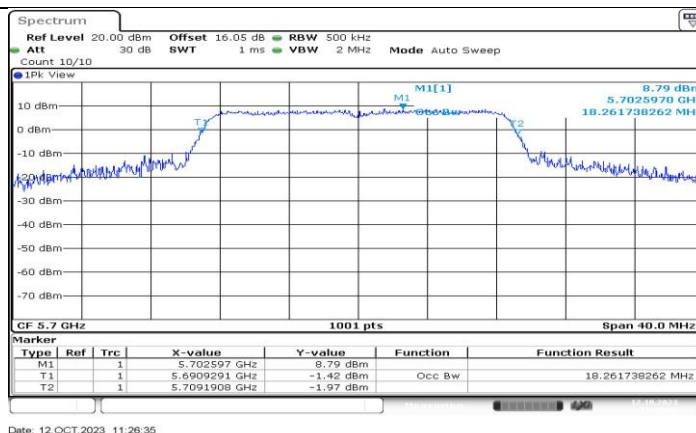
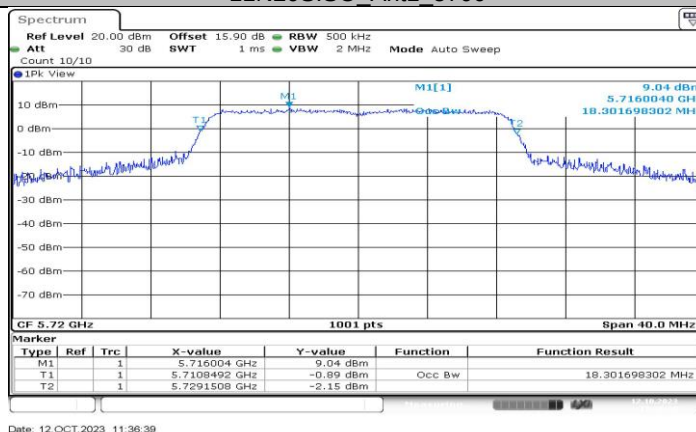




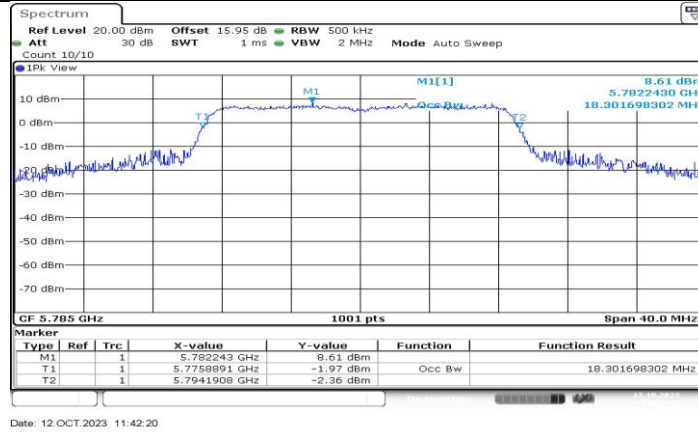
11N20SISO Ant1 5700



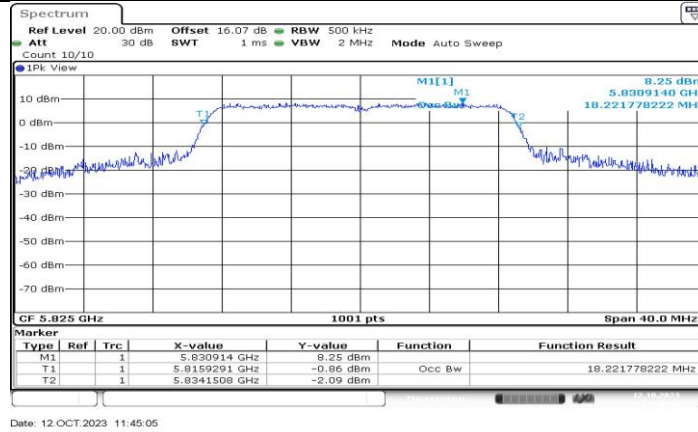
11N20SISO Ant1 5720



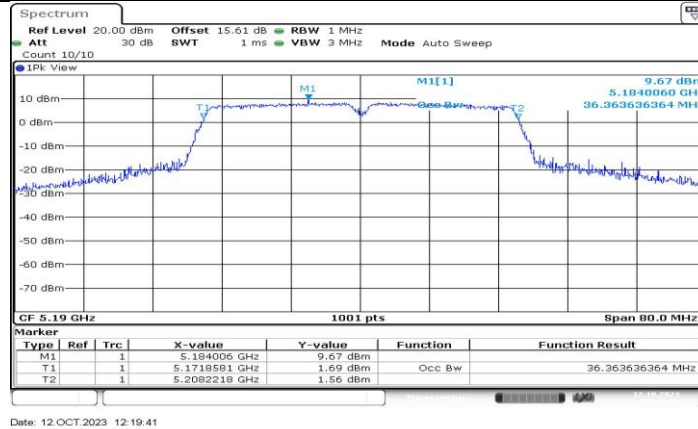
11N20SISO Ant1 5745



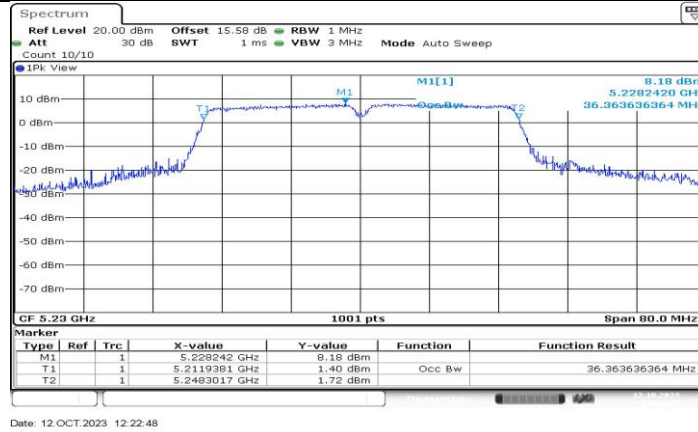
11N20SISO Ant1 5785



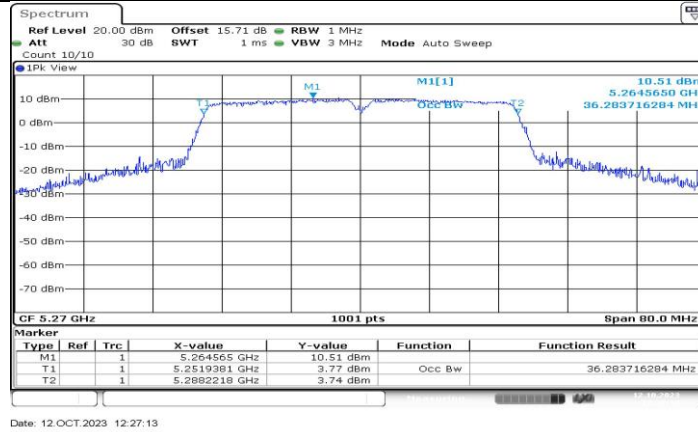
11N20SISO Ant1 5825



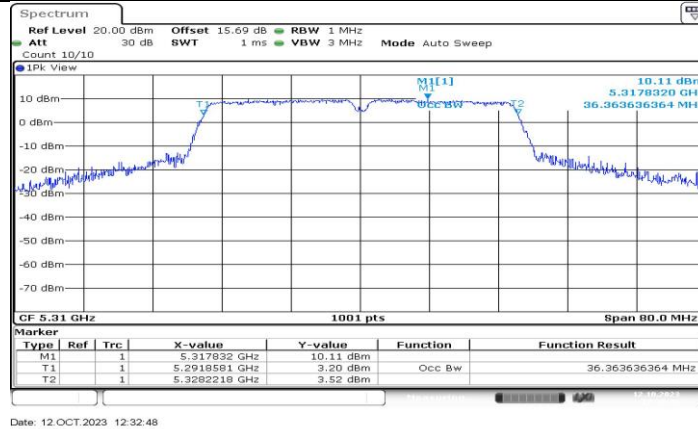
11N40SISO Ant1 5190



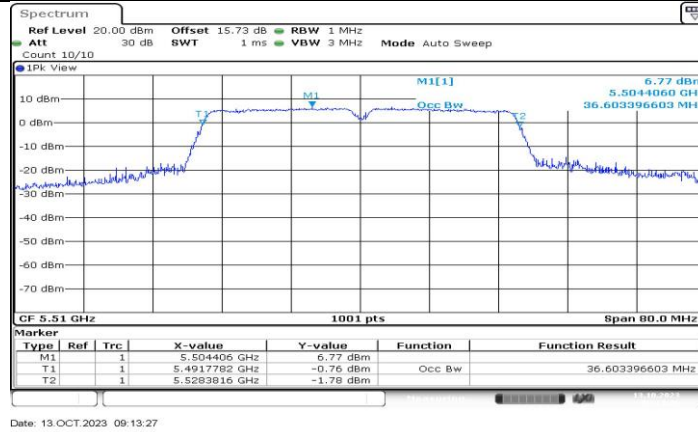
11N40SISO_Ant1_5230



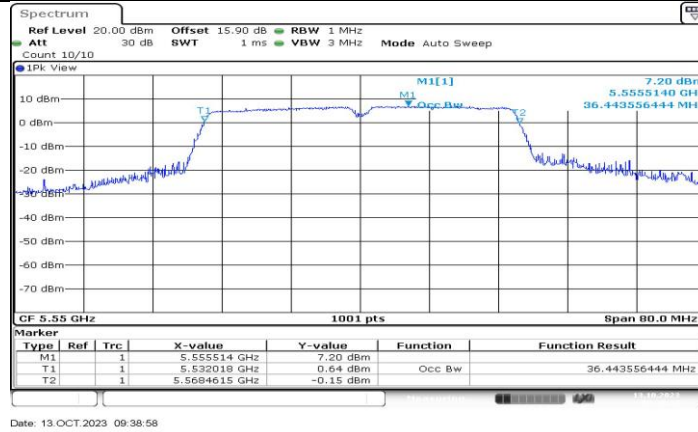
11N40SISO_Ant1_5270



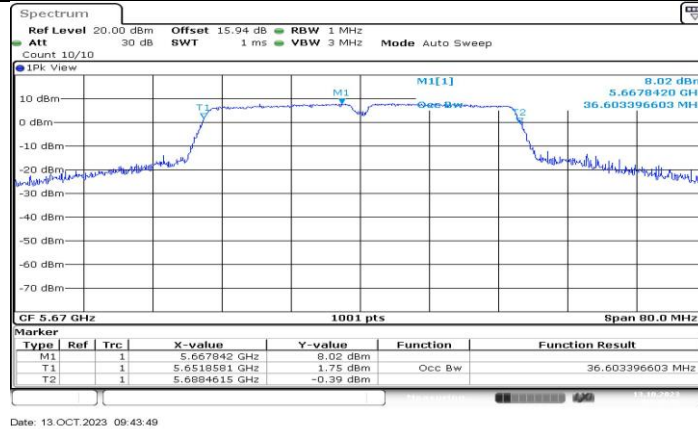
11N40SISO_Ant1_5310



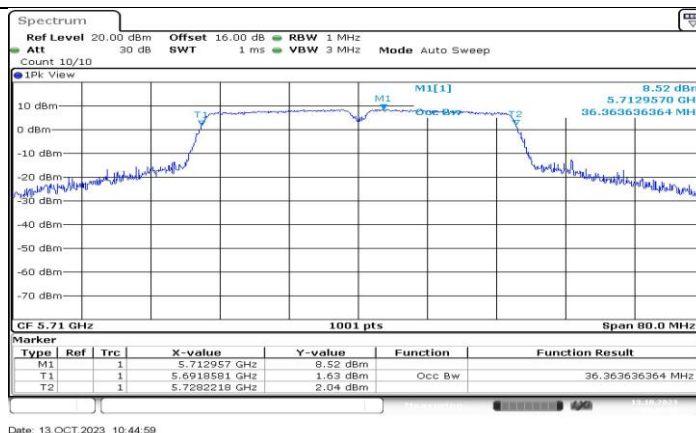
11N40SISO_Ant1_5510



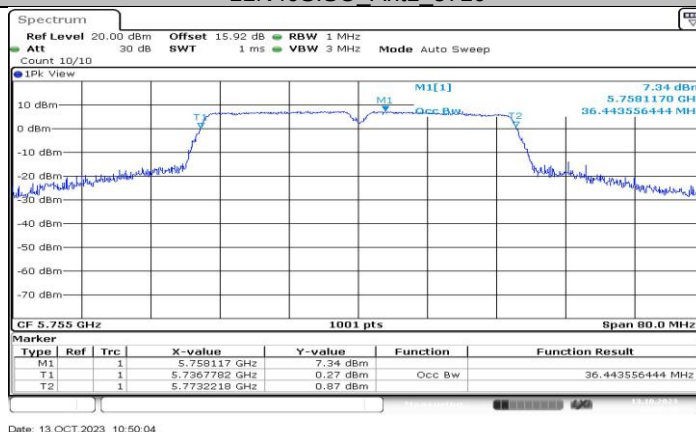
11N40SISO_Ant1_5550



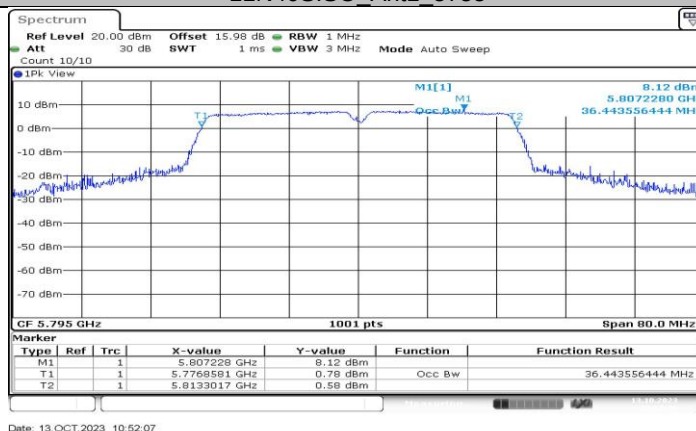
11N40SISO_Ant1_5670



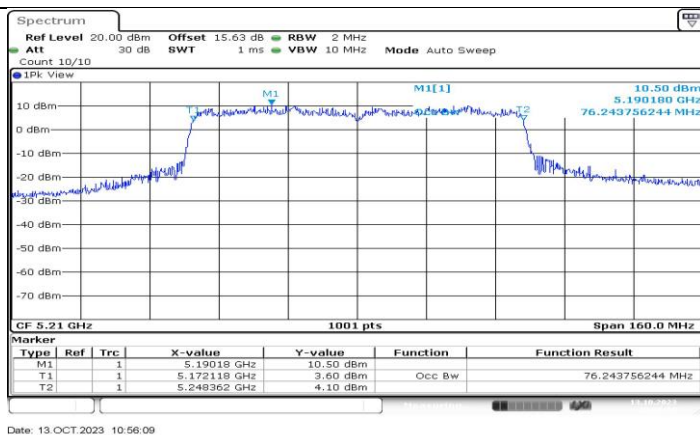
11N40SISO_Ant1_5710



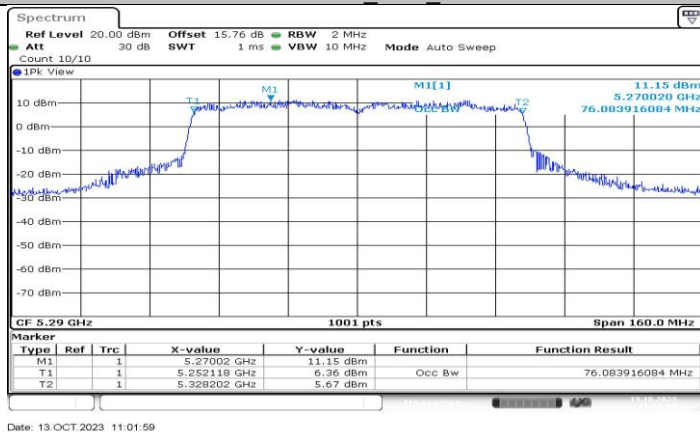
11N40SISO_Ant1_5755



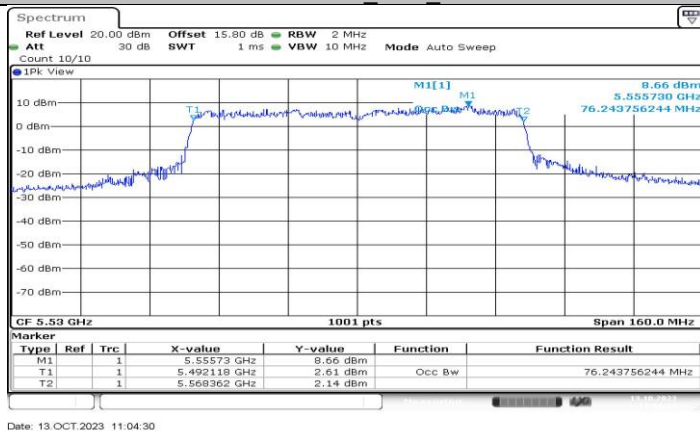
11N40SISO_Ant1_5795



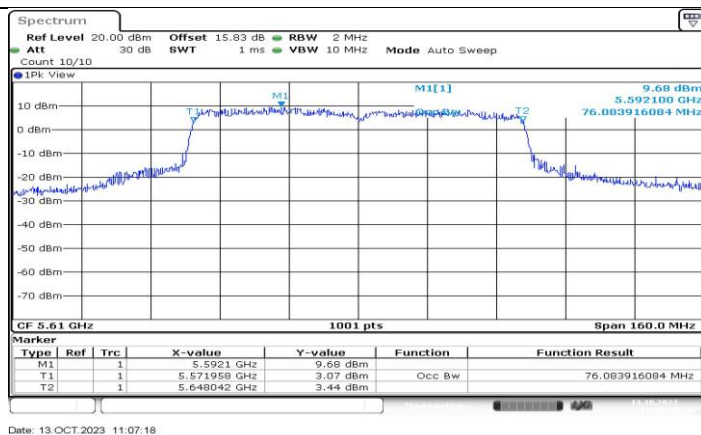
11AC80SISO_Ant1_5210



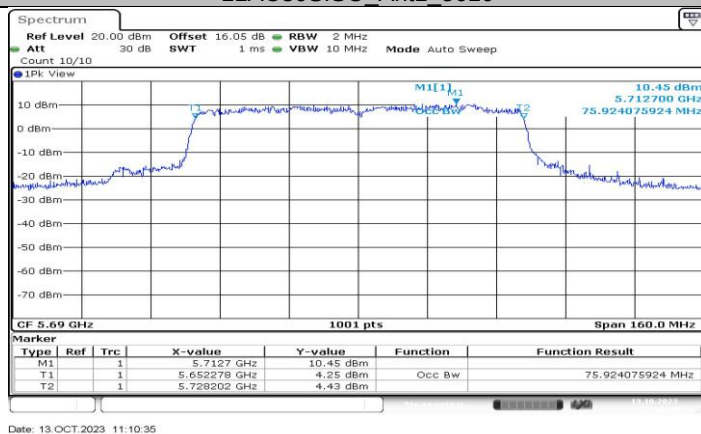
11AC80SISO_Ant1_5290



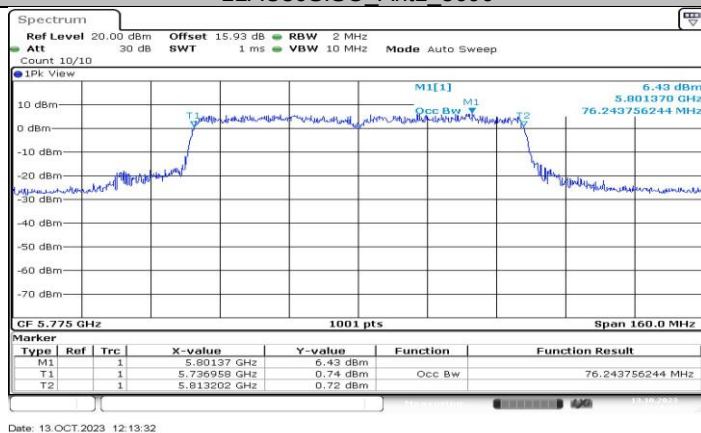
11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690



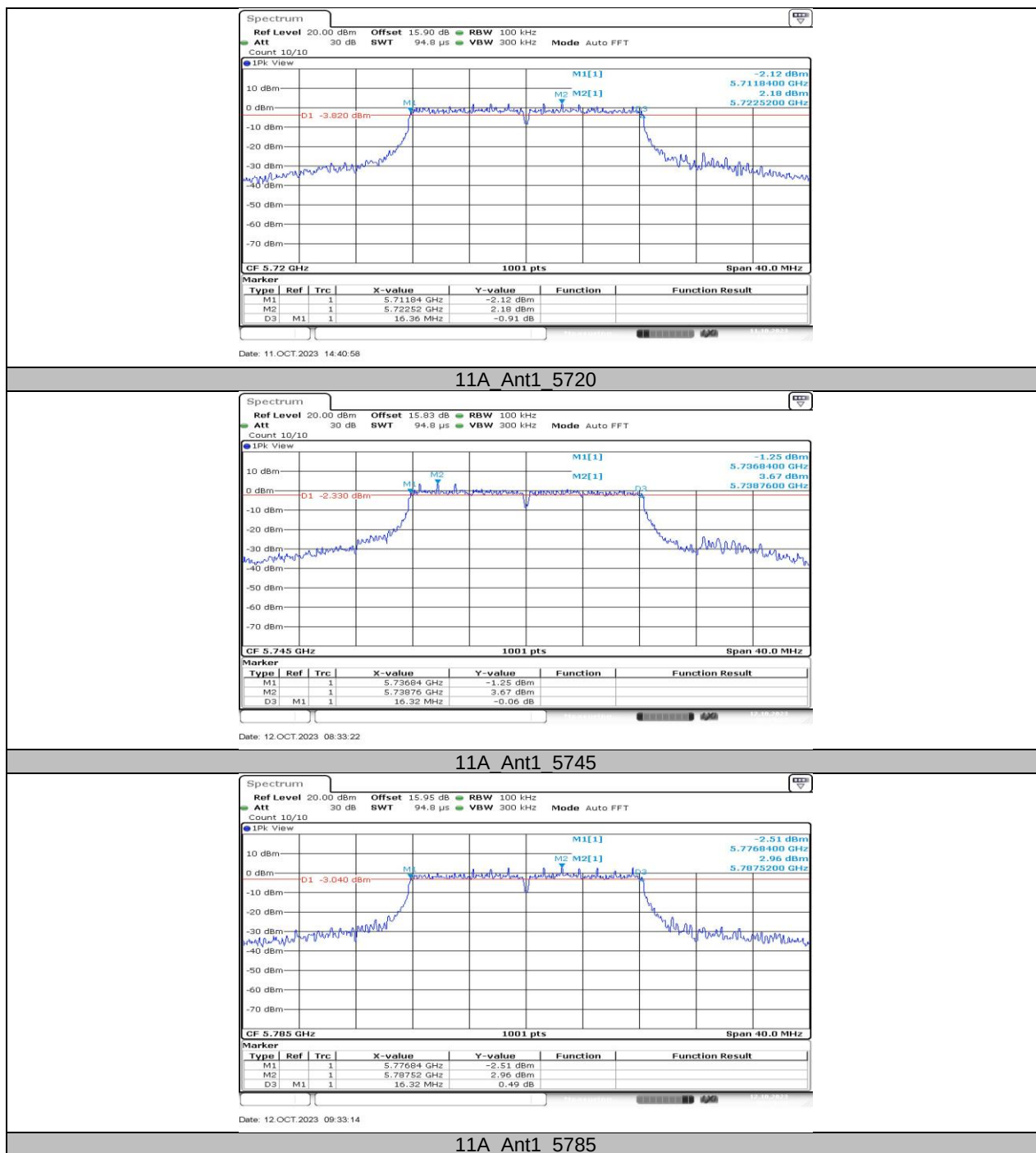
11AC80SISO_Ant1_5775

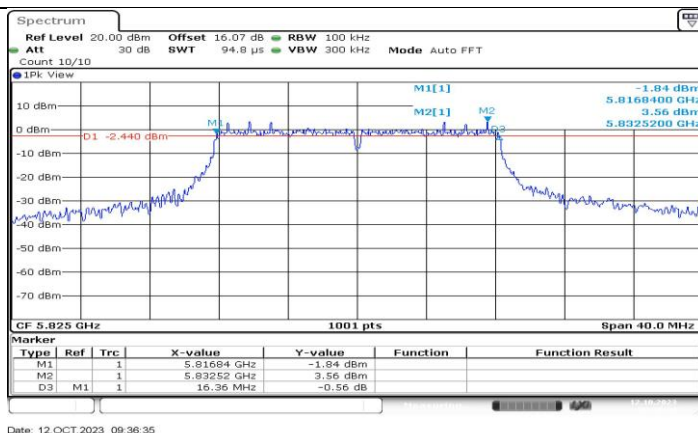
11.3. APPENDIX A3: MIN EMISSION BANDWIDTH

11.3.1. Test Result

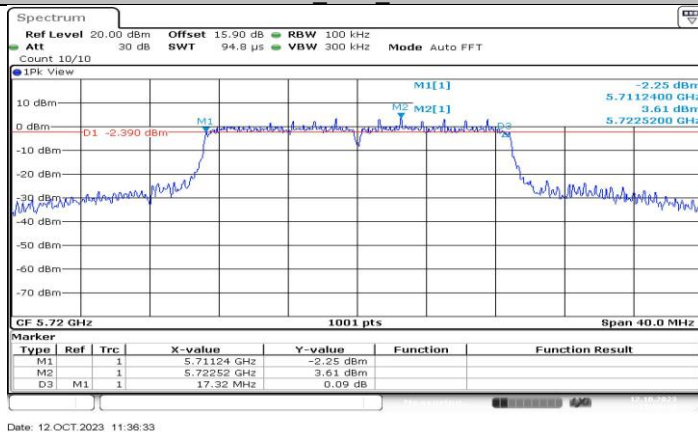
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720	16.36	5711.84	5728.20	≤0.5	PASS
		5720 UNII-3	3.2	5725	5728.20	≤0.5	PASS
		5745	16.32	5736.84	5753.16	≤0.5	PASS
		5785	16.32	5776.84	5793.16	≤0.5	PASS
		5825	16.36	5816.84	5833.20	≤0.5	PASS
11N20SISO	Ant1	5720	17.32	5711.24	5728.56	≤0.5	PASS
		5720 UNII-3	3.56	5725	5728.56	≤0.5	PASS
		5745	17.32	5736.24	5753.56	≤0.5	PASS
		5785	17.56	5776.24	5793.80	≤0.5	PASS
		5825	17.56	5816.24	5833.80	≤0.5	PASS
11N40SISO	Ant1	5710	35.60	5692.24	5727.84	≤0.5	PASS
		5710 UNII-3	2.84	5725	5727.84	≤0.5	PASS
		5755	35.68	5737.16	5772.84	≤0.5	PASS
		5795	35.68	5777.24	5812.92	≤0.5	PASS
11AC80SISO	Ant1	5690	75.20	5652.40	5727.60	≤0.5	PASS
		5690 UNII-3	2.6	5725	5727.60	≤0.5	PASS
		5775	75.20	5737.40	5812.60	≤0.5	PASS

11.3.2. Test Graphs

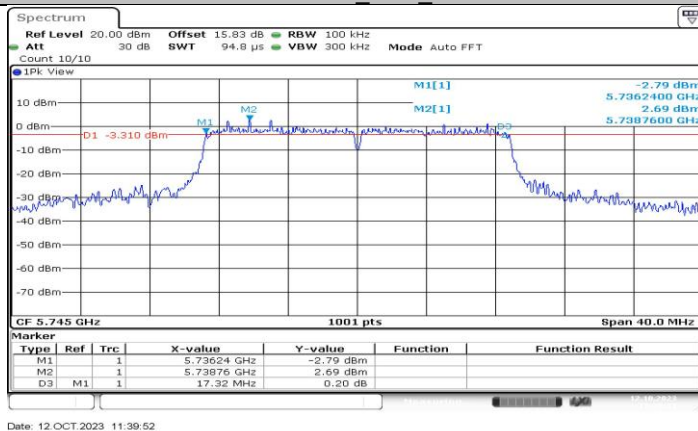




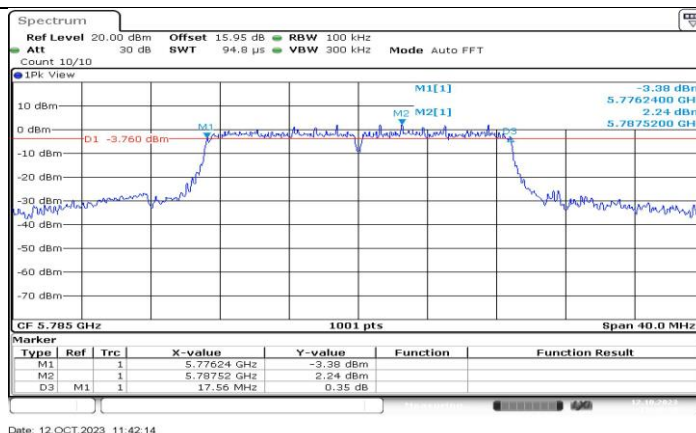
11A Ant1_5825



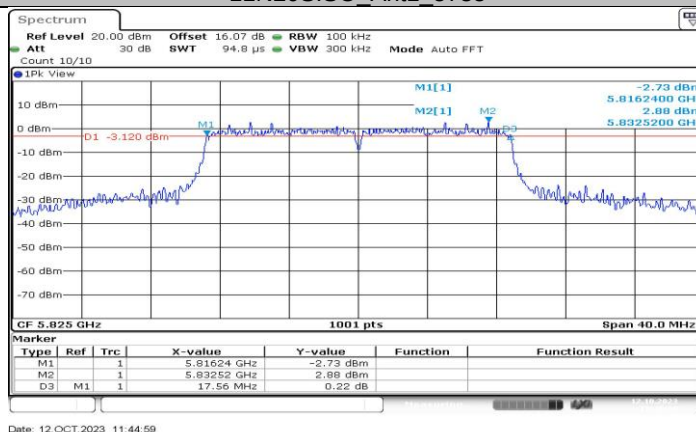
11N20SISO Ant1_5720



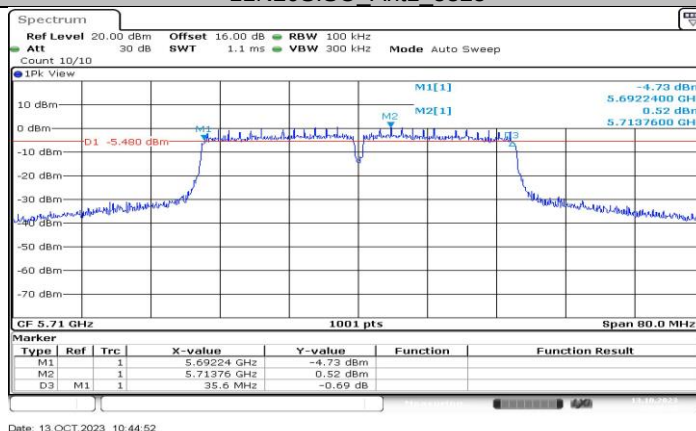
11N20SISO Ant1_5745



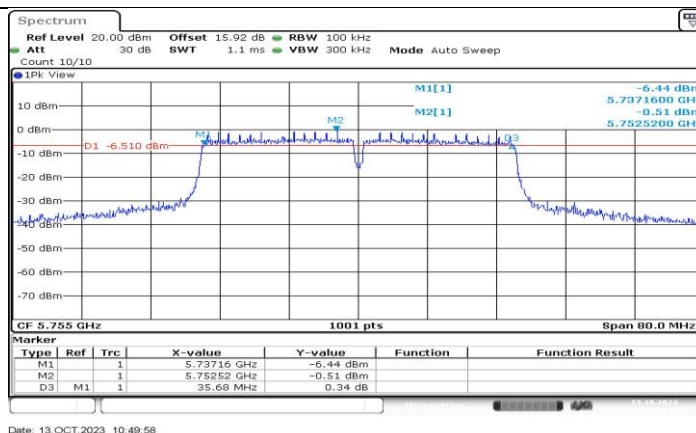
11N20SISO Ant1 5785



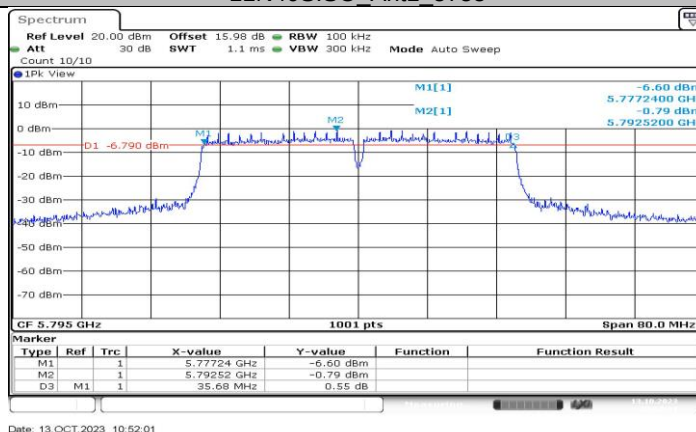
11N20SISO Ant1 5825



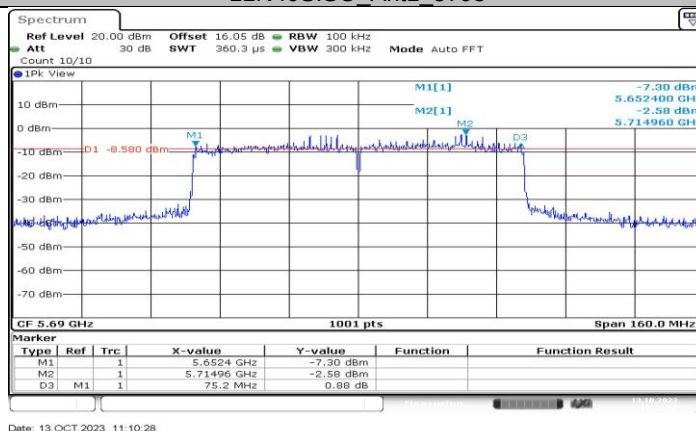
11N40SISO Ant1 5710



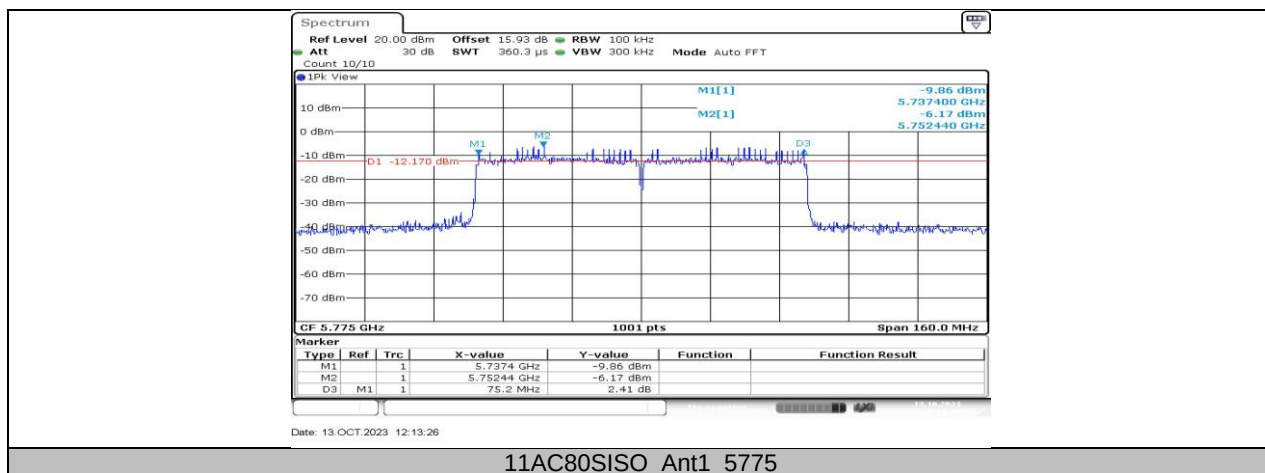
11N40SISO Ant1 5755



11N40SISO Ant1 5795



11AC80SISO Ant1 5690



11.4. APPENDIX B: MAXIMUM CONDUCTED OUTPUT POWER

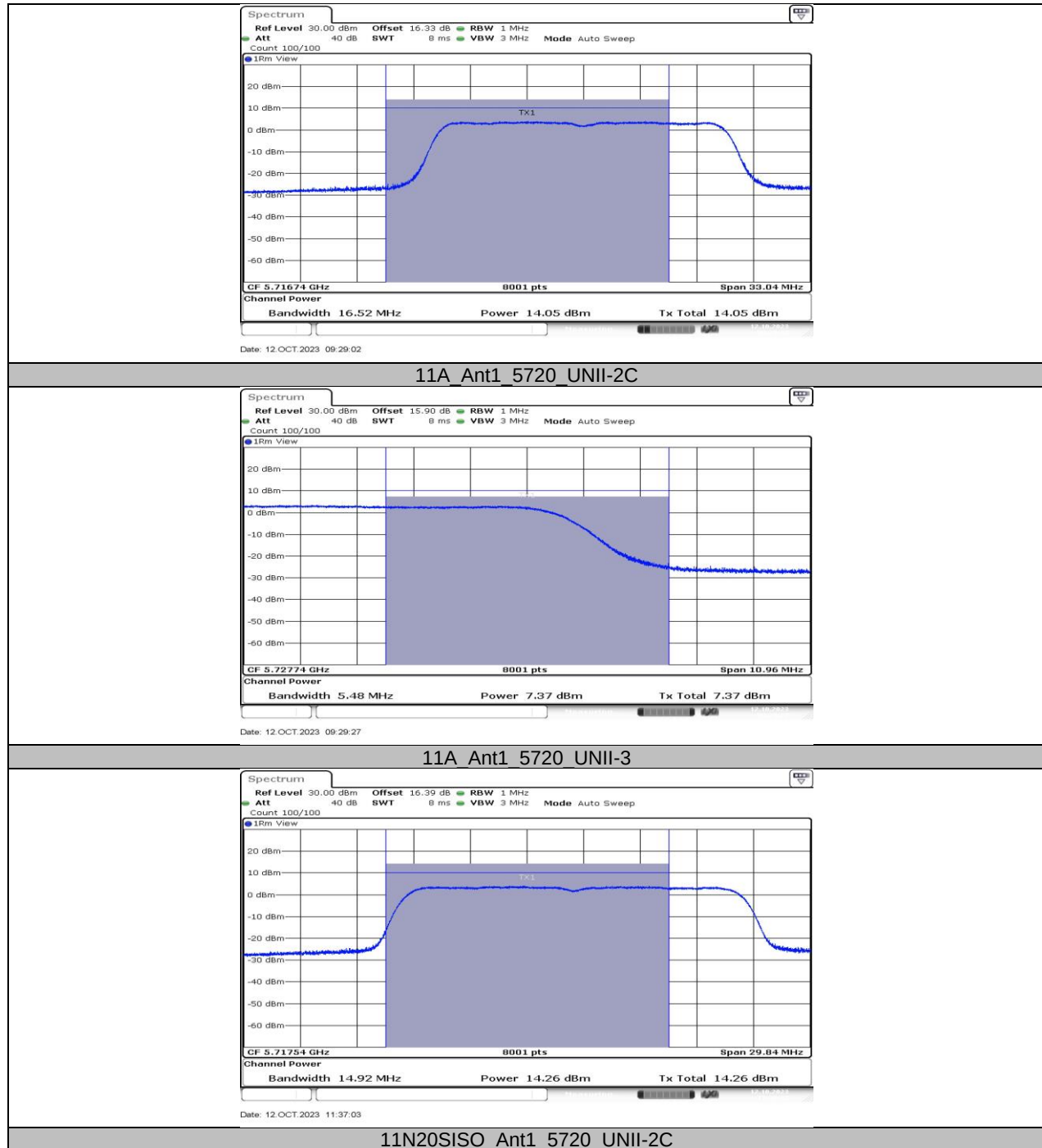
11.4.1. Test Result

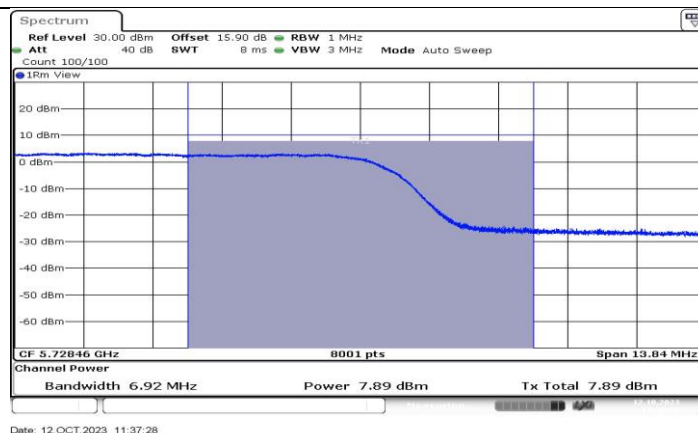
Test Mode	Antenna	Frequency [MHz]	Power	FCC Limit	ISED Limit	EIRP	Limit	Verdict
			[dBm]	[dBm]	[dBm]	[dBm]	[dBm]	
11A	Ant1	5180	16.29	≤23.98	---	19.4	≤22.42	PASS
		5200	15.9	≤23.98	---	19.01	≤22.42	PASS
		5240	16.33	≤23.98	---	19.44	≤22.42	PASS
		5260	17.89	≤23.98	≤23.43	21	≤29.43	PASS
		5280	17.78	≤23.98	≤23.42	20.89	≤29.42	PASS
		5320	17.47	≤23.98	≤23.41	20.58	≤29.41	PASS
		5500	14.71	≤23.98	≤23.44	17.82	≤29.44	PASS
		5580	16.66	≤23.98	≤23.43	19.77	≤29.43	PASS
		5700	16.68	≤23.98	≤23.42	19.91	≤29.42	PASS
		5720_UNII-2C	14.05	≤23.18	≤22.37	17.16	≤28.37	PASS
		5720_UNII-3	7.37	≤30.00	≤30.00	10.48	---	PASS
		5745	16.48	≤30.00	≤30.00	19.59	---	PASS
		5785	16.28	≤30.00	≤30.00	19.39	---	PASS
		5825	16.88	≤30.00	≤30.00	19.99	---	PASS
11N20SISO	Ant1	5180	16.09	≤23.98	---	19.2	≤22.59	PASS
		5200	15.71	≤23.98	---	18.82	≤22.63	PASS
		5240	16.05	≤23.98	---	19.16	≤22.63	PASS
		5260	17.81	≤23.98	≤23.62	20.92	≤29.62	PASS
		5280	17.69	≤23.98	≤23.62	20.8	≤29.62	PASS
		5320	17.41	≤23.98	≤23.62	20.52	≤29.62	PASS
		5500	14.38	≤23.98	≤23.63	17.49	≤29.63	PASS
		5580	16.19	≤23.98	≤23.62	19.3	≤29.62	PASS
		5700	16.28	≤23.98	≤23.62	19.72	≤29.62	PASS
		5720_UNII-2C	14.26	≤22.74	≤22.51	17.37	≤28.51	PASS
		5720_UNII-3	7.89	≤30.00	≤30.00	11	---	PASS
		5745	16.34	≤30.00	≤30.00	19.45	---	PASS
		5785	16.13	≤30.00	≤30.00	19.24	---	PASS
		5825	16.57	≤30.00	≤30.00	19.68	---	PASS
11N40SISO	Ant1	5190	15.48	≤23.98	---	18.59	≤23.00	PASS
		5230	15.25	≤23.98	---	18.36	≤23.00	PASS
		5270	17.39	≤23.98	≤23.98	20.5	≤30.00	PASS
		5310	17.31	≤23.98	≤23.98	20.42	≤30.00	PASS
		5510	13.9	≤23.98	≤23.98	17.01	≤30.00	PASS
		5550	14.14	≤23.98	≤23.98	17.25	≤30.00	PASS
		5670	15.53	≤23.98	≤23.98	18.64	≤30.00	PASS

		5710_UNII-2C	14.39	≤23.98	≤23.98	17.5	≤30.00	PASS
		5710_UNII-3	2.57	≤30.00	≤30.00	5.68	---	PASS
		5755	15.37	≤30.00	≤30.00	18.48	---	PASS
		5795	15.43	≤30.00	≤30.00	18.54	---	PASS
11AC80SiSO	Ant1	5210	15.69	≤23.98	---	18.8	≤23.00	PASS
		5290	17.25	≤23.98	≤23.98	20.36	≤30.00	PASS
		5530	14.12	≤23.98	≤23.98	17.23	≤30.00	PASS
		5610	15.24	≤23.98	≤23.98	18.35	≤30.00	PASS
		5690_UNII-2C	14.22	≤23.98	≤23.98	17.33	≤30.00	PASS
		5690_UNII-3	-1.22	≤30.00	≤30.00	1.89	---	PASS
		5775	12.42	≤30.00	≤30.00	15.53	---	PASS

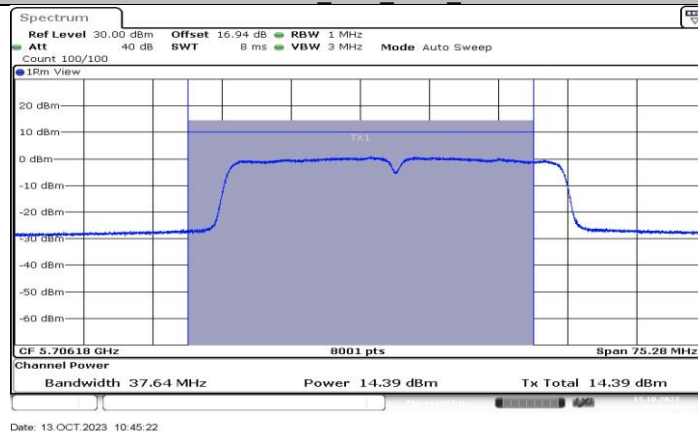
Note: The Duty Cycle Factor is compensated in the graph.

11.4.2. Test Graphs

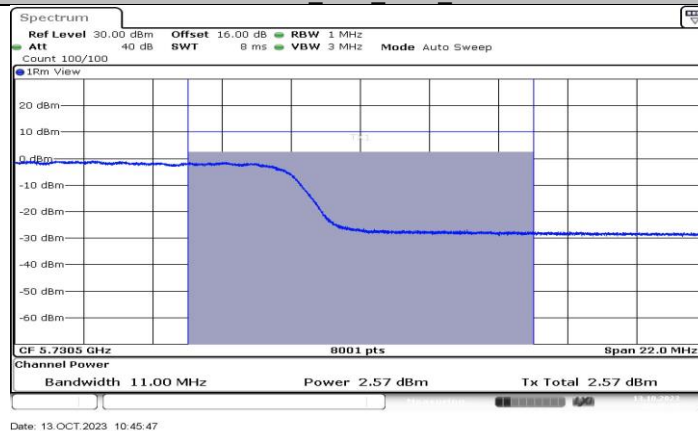




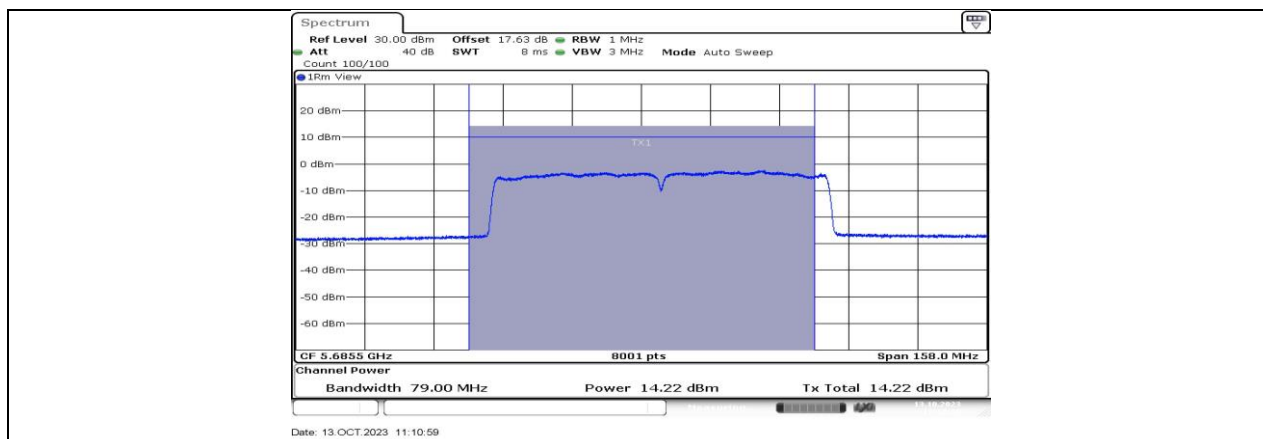
11N20SISO_Ant1_5720_UNII-3



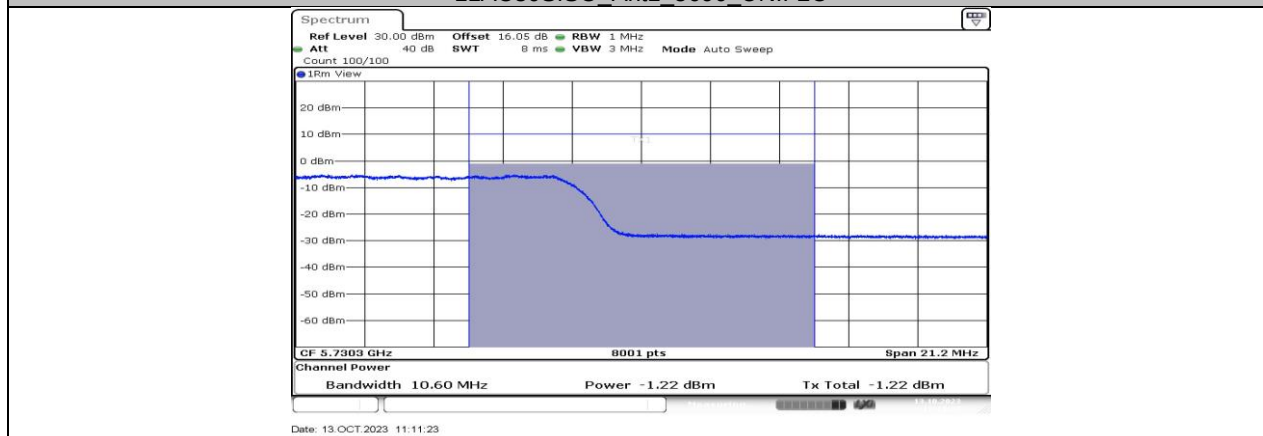
11N40SISO_Ant1_5710_UNII-2C



11N40SISO_Ant1_5710_UNII-3



11AC80SISO_Ant1_5690_UNII-2C



11AC80SISO_Ant1_5690_UNII-3

11.5. APPENDIX C: MAXIMUM POWER SPECTRAL DENSITY

11.5.1. Test Result

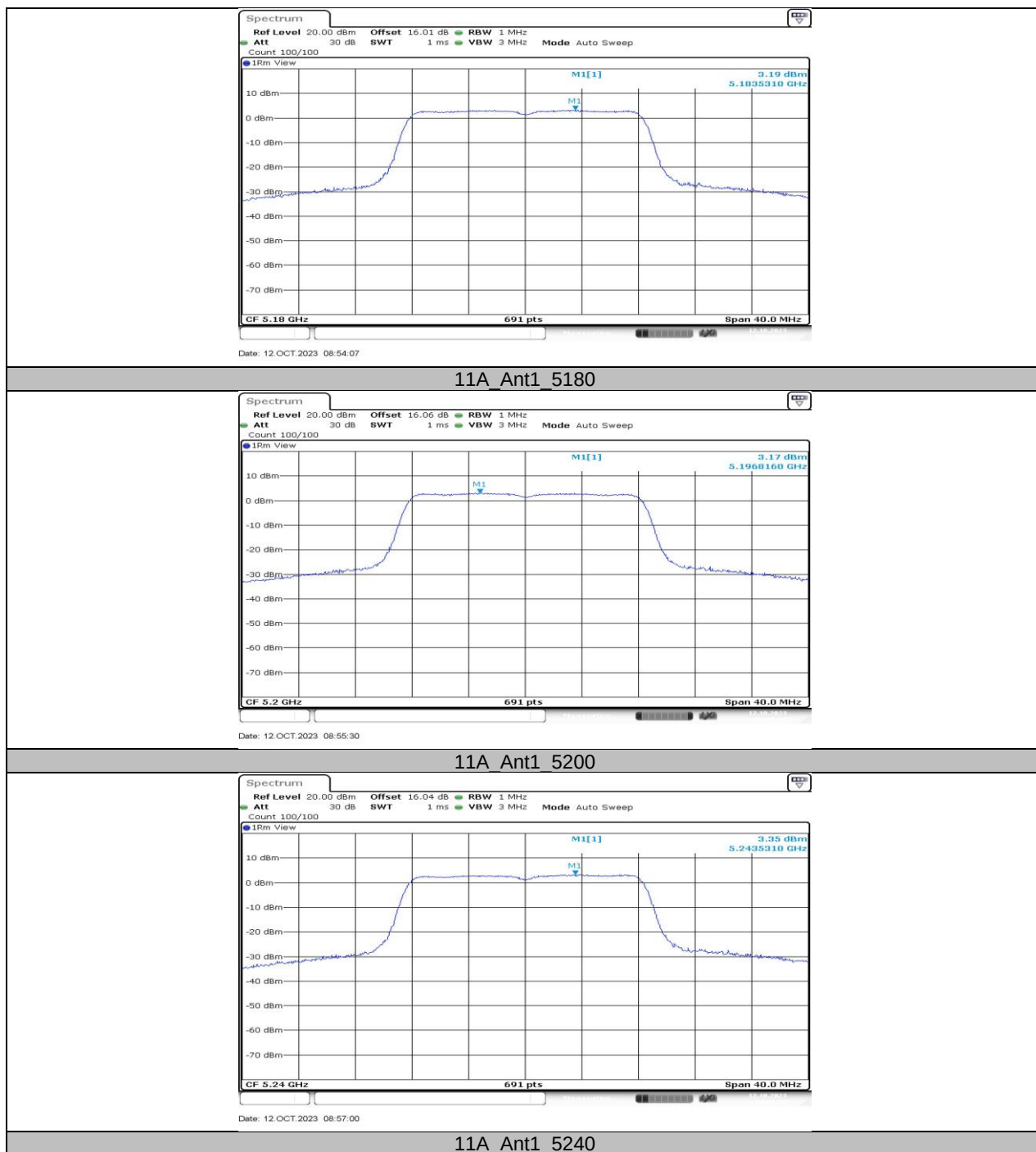
Test Mode	Antenna	Frequency[MHz]	Power	Limit	EIRP	Limit	Verdict
			[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	
11A	Ant1	5180	3.19	≤11.00	6.3	≤10.00	PASS
		5200	3.17	≤11.00	6.28	≤10.00	PASS
		5240	3.35	≤11.00	6.46	≤10.00	PASS
		5260	4.82	≤11.00	7.93	---	PASS
		5280	4.76	≤11.00	7.87	---	PASS
		5320	4.27	≤11.00	7.38	---	PASS
		5500	1.56	≤11.00	4.67	---	PASS
		5580	3.48	≤11.00	6.59	---	PASS
		5700	3.85	≤11.00	6.96	---	PASS
		5720_UNII-2C	3.9	≤11.00	7.01	---	PASS
		5720_UNII-3	0.52	≤30.00	3.63	---	PASS
		5745	0.48	≤30.00	3.59	---	PASS
		5785	0.11	≤30.00	3.22	---	PASS
		5825	0.81	≤30.00	3.92	---	PASS
11N20SISO	Ant1	5180	3.29	≤11.00	6.4	≤10.00	PASS
		5200	3.03	≤11.00	6.14	≤10.00	PASS
		5240	3.19	≤11.00	6.3	≤10.00	PASS
		5260	4.76	≤11.00	7.87	---	PASS
		5280	4.99	≤11.00	8.1	---	PASS
		5320	4.28	≤11.00	7.39	---	PASS
		5500	1.26	≤11.00	4.37	---	PASS
		5580	3.61	≤11.00	6.72	---	PASS
		5700	3.82	≤11.00	6.93	---	PASS
		5720_UNII-2C	3.73	≤11.00	6.84	---	PASS
		5720_UNII-3	0.38	≤30.00	3.49	---	PASS
		5745	0.54	≤30.00	3.65	---	PASS
		5785	0.1	≤30.00	3.21	---	PASS
		5825	0.84	≤30.00	3.95	---	PASS
11N40SISO	Ant1	5190	-0.19	≤11.00	2.92	≤10.00	PASS
		5230	0.15	≤11.00	3.26	≤10.00	PASS
		5270	2.46	≤11.00	5.57	---	PASS
		5310	1.74	≤11.00	4.85	---	PASS
		5510	-2.05	≤11.00	1.06	---	PASS
		5550	-1.25	≤11.00	1.86	---	PASS
		5670	-0.25	≤11.00	2.86	---	PASS

		5710_UNII-2C	0.42	≤ 11.00	3.53	---	PASS
		5710_UNII-3	-3.77	≤ 30.00	-0.66	---	PASS
		5755	-3.62	≤ 30.00	-0.51	---	PASS
		5795	-3.73	≤ 30.00	-0.62	---	PASS
11AC80SISO	Ant1	5210	-3.24	≤ 11.00	-0.13	≤ 10.00	PASS
		5290	-1.64	≤ 11.00	1.47	---	PASS
		5530	-4.69	≤ 11.00	-1.58	---	PASS
		5610	-3.57	≤ 11.00	-0.46	---	PASS
		5690_UNII-2C	-2.95	≤ 11.00	0.16	---	PASS
		5690_UNII-3	-7.13	≤ 30.00	-4.02	---	PASS
		5775	-11.56	≤ 30.00	-8.45	---	PASS

Note : 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

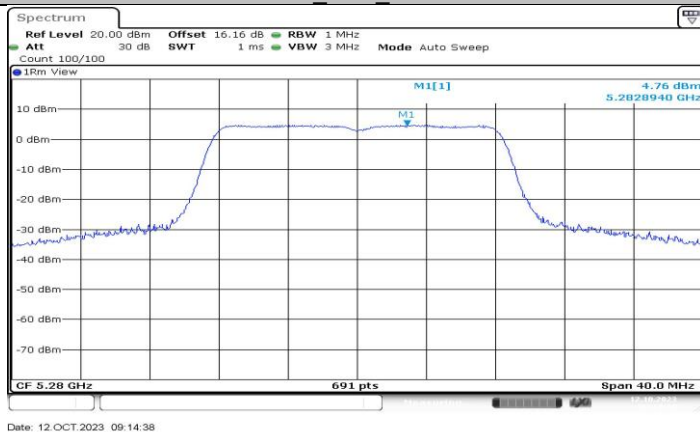
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs





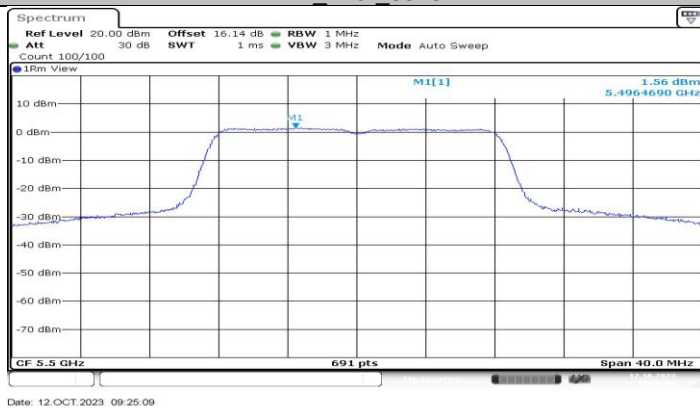
11A Ant1_5260



11A Ant1_5280



11A Ant1_5320



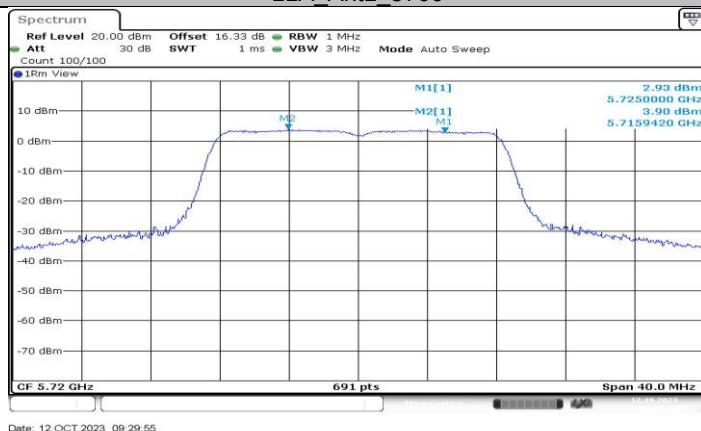
11A_Ant1_5500



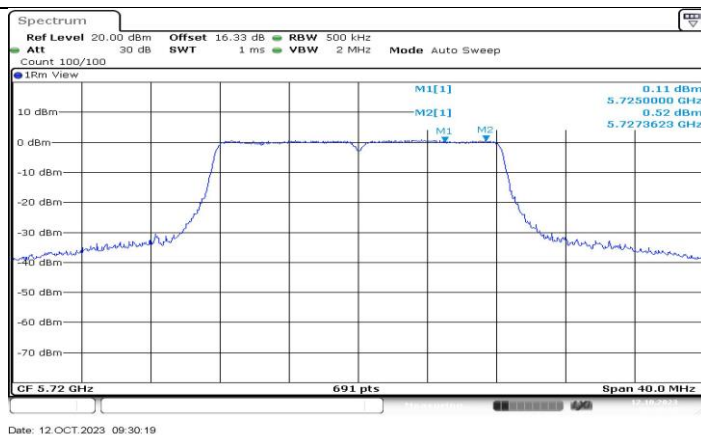
11A_Ant1_5580



11A_Ant1_5700



11A_Ant1_5720_UNII-2C



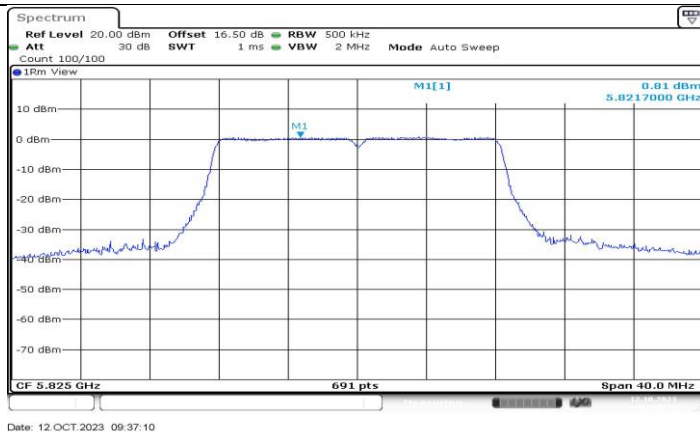
11A Ant1_5720 UNII-3



11A Ant1_5745



11A Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



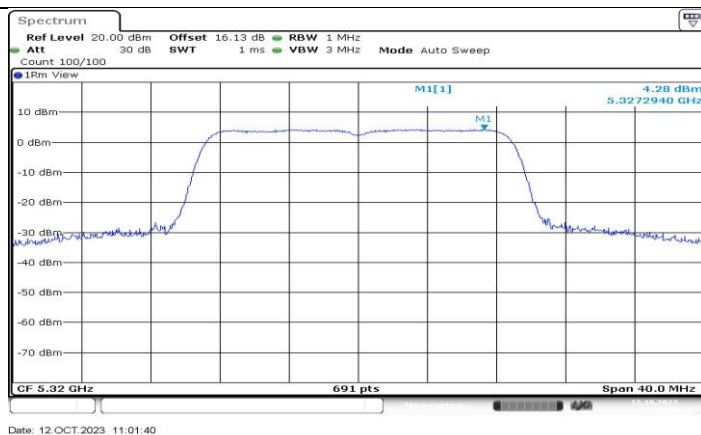
11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



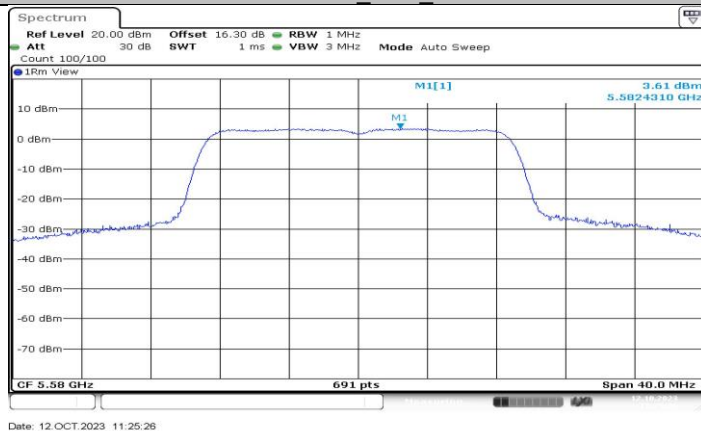
11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



11N20SISO_Ant1_5500



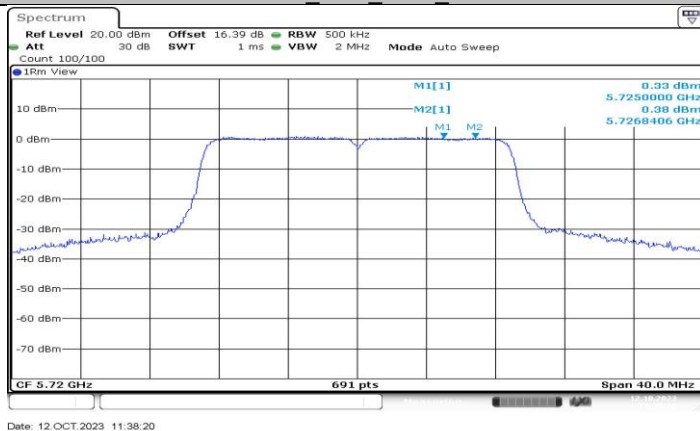
11N20SISO_Ant1_5580



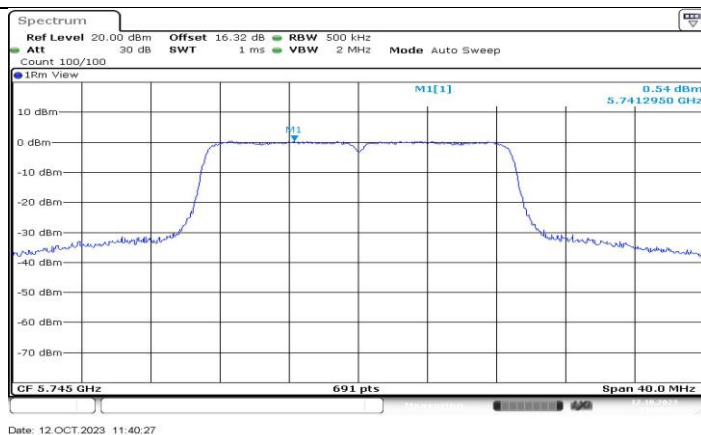
11N20SISO Ant1_5700



11N20SISO Ant1_5720_UNII-2C



11N20SISO Ant1_5720_UNII-3



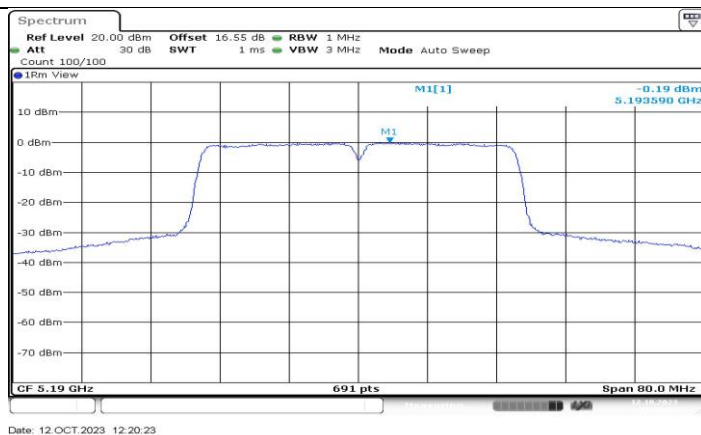
11N20SISO Ant1 5745



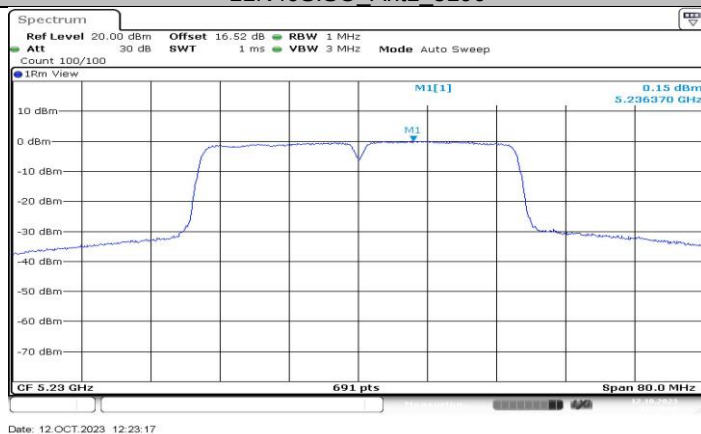
11N20SISO Ant1 5785



11N20SISO Ant1 5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



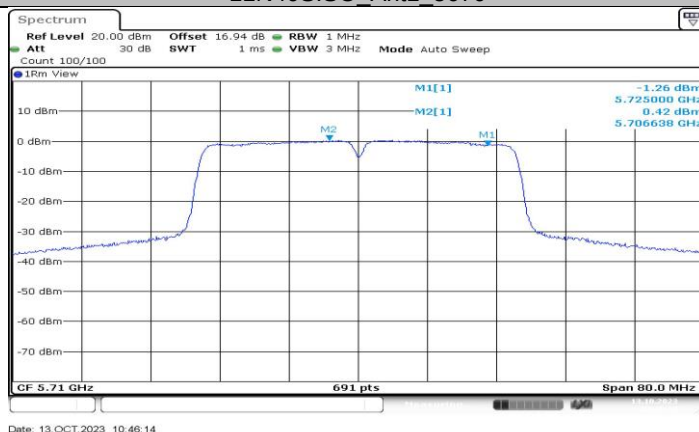
11N40SISO_Ant1_5510



11N40SISO_Ant1_5550



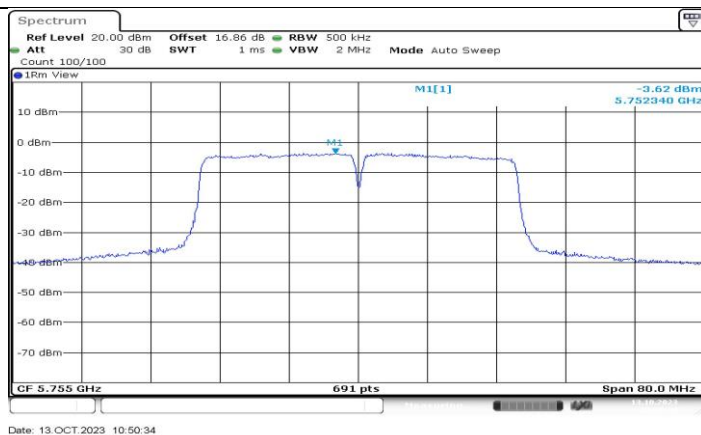
11N40SISO Ant1_5670



11N40SISO Ant1_5710_UNII-2C



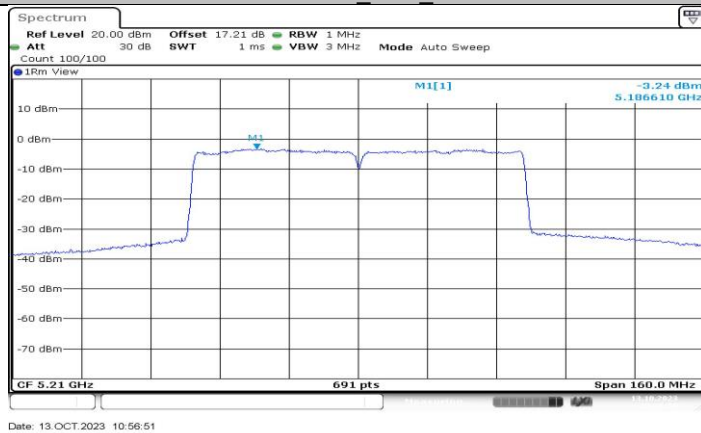
11N40SISO Ant1_5710_UNII-3



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC80SISO_Ant1_5210



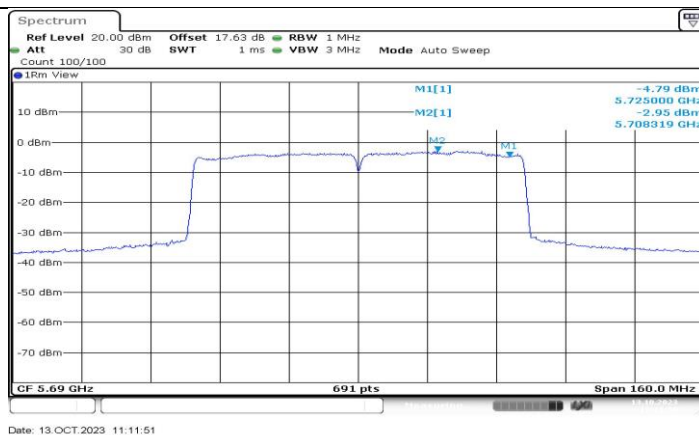
11AC80SISO_Ant1_5290



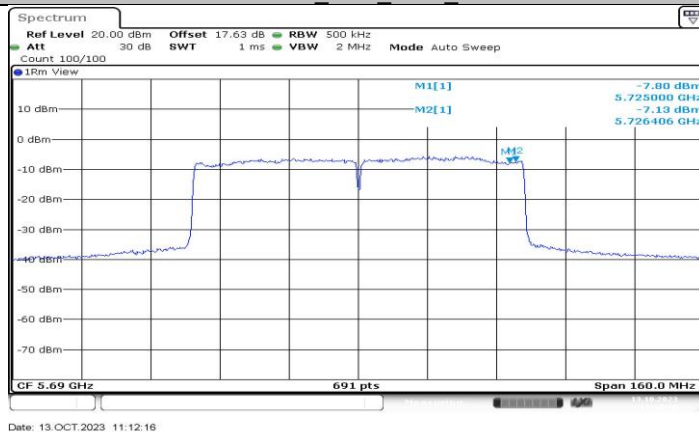
11AC80SISO_Ant1_5530



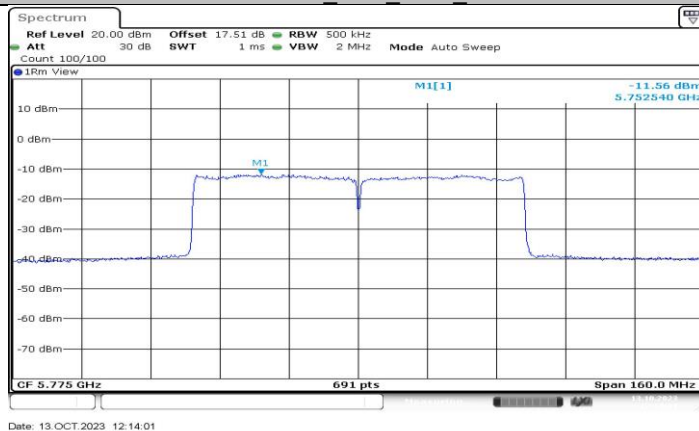
11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690_UNII-2C



11AC80SISO_Ant1_5690_UNII-3



11AC80SISO_Ant1_5775

11.6. APPENDIX H: FREQUENCY STABILITY

11.6.1. Test Result

11.6.2. Test Result

Frequency Error vs. Voltage									
802.11a:5200MHz									
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	5200.0032	0.61	5199.9842	-3.03	5200.0208	4.01	5199.9956	-0.85
TN	VN	5199.9840	-3.07	5199.9852	-2.85	5199.9765	-4.52	5199.9928	-1.38
TN	VH	5200.0165	3.18	5200.0080	1.53	5200.0121	2.34	5200.0134	2.57
Frequency Error vs. Temperature									
802.11a:5200MHz									
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)
45	VN	5199.9937	-1.21	5200.0185	3.56	5200.0207	3.98	5200.0149	2.86
40	VN	5200.0099	1.90	5200.0033	0.64	5199.9774	-4.34	5199.9808	-3.70
30	VN	5200.0243	4.67	5200.0191	3.67	5199.9810	-3.65	5199.9861	-2.67
20	VN	5199.9907	-1.79	5199.9886	-2.20	5200.0071	1.37	5200.0073	1.41
10	VN	5200.0126	2.42	5199.9929	-1.37	5199.9972	-0.54	5199.9834	-3.19
0	VN	5199.9931	-1.32	5199.9926	-1.42	5199.9790	-4.03	5200.0153	2.95

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 D: DUTY CYCLE

11.7.1. Test Result

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	1.35	1.49	0.9060	90.60	0.43	0.74	1
11N20SISO	1.26	1.41	0.8936	89.36	0.49	0.79	1
11N40SISO	0.62	0.77	0.8052	80.52	0.94	1.61	2
11AC80SISO	0.32	0.46	0.6957	69.57	1.58	3.13	5

Note:

Duty Cycle Correction Factor=10log (1/x).

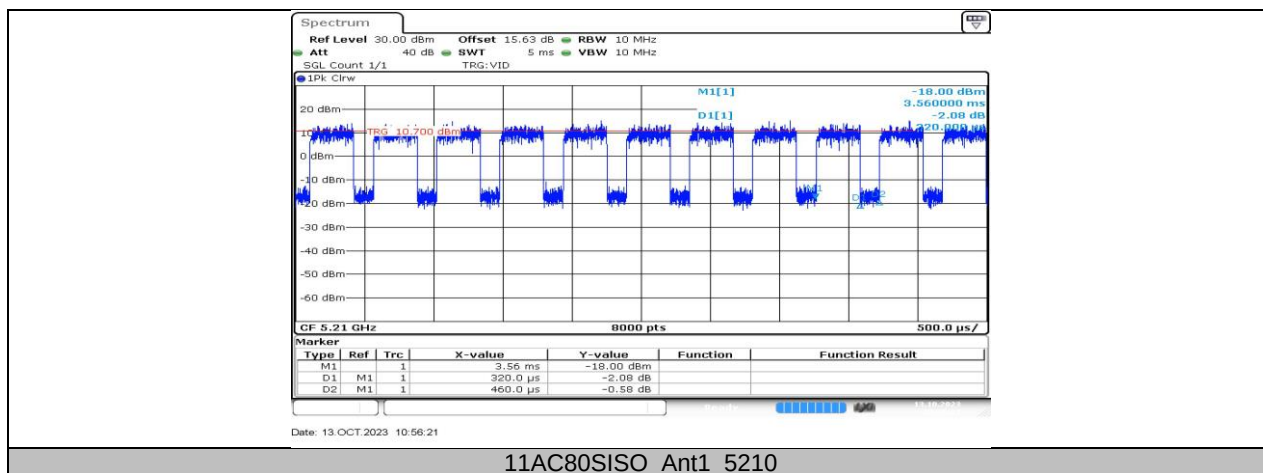
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

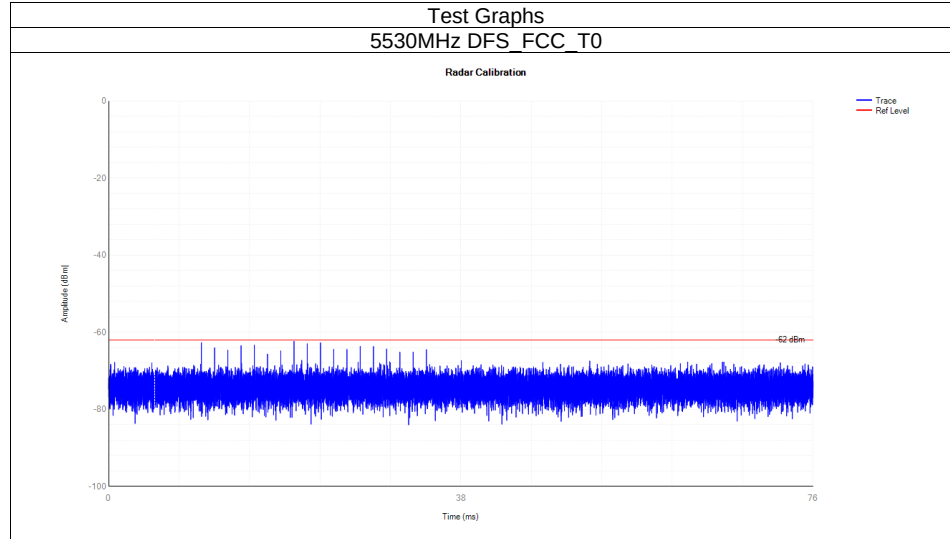
11.7.2. Test Graphs





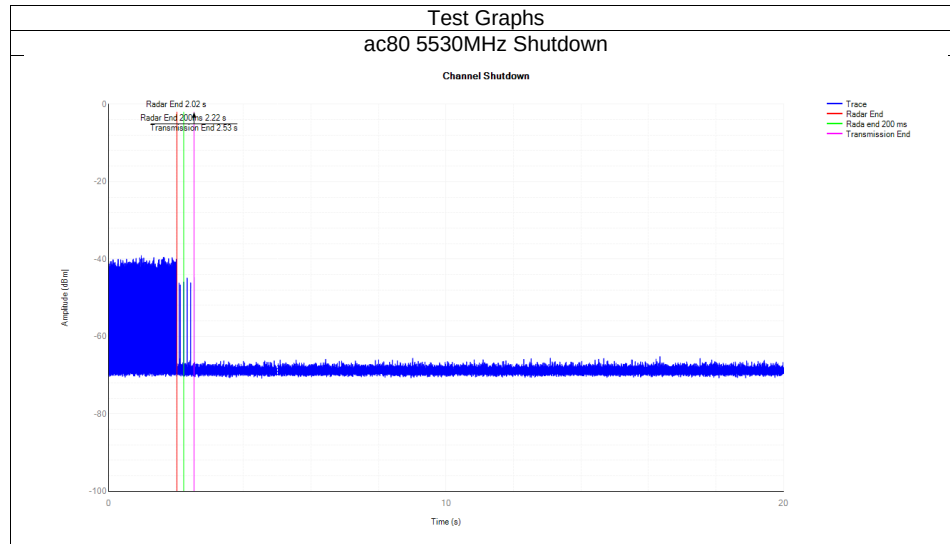
11.8. APPENDIX E: CALIBRATION

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



11.9. APPENDIX F: SHUTDOWN TIME

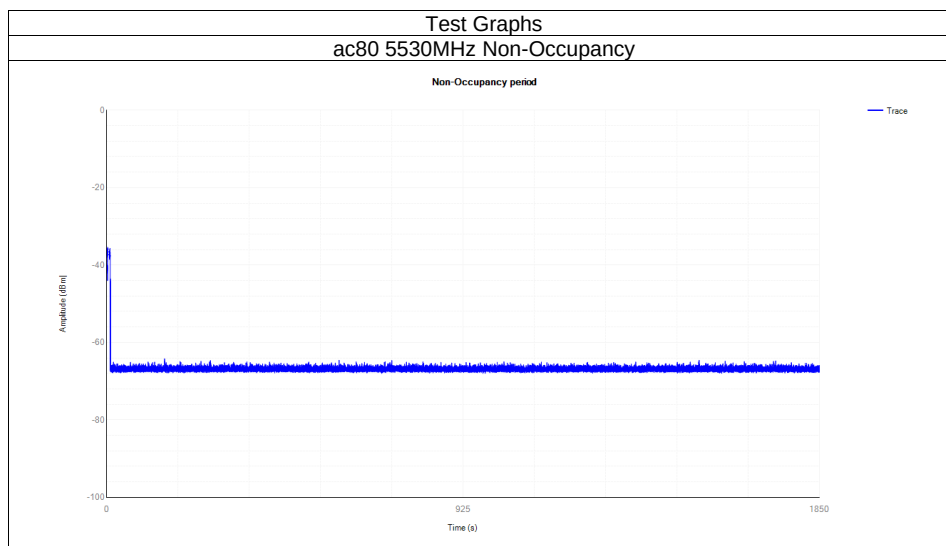
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5530	0.508	10	0.005	0.26	0.003	0.06	Pass



Note: All modes have been tested, only the worst data recorded in the report.

11.10. APPENDIX G: NON-OCCUPANCY

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



Note: All modes have been tested, only the worst data recorded in the report.

END OF REPORT