



CVC Testing Technology Co., Ltd.

Test Report No.: FCC2023-0049-RF3

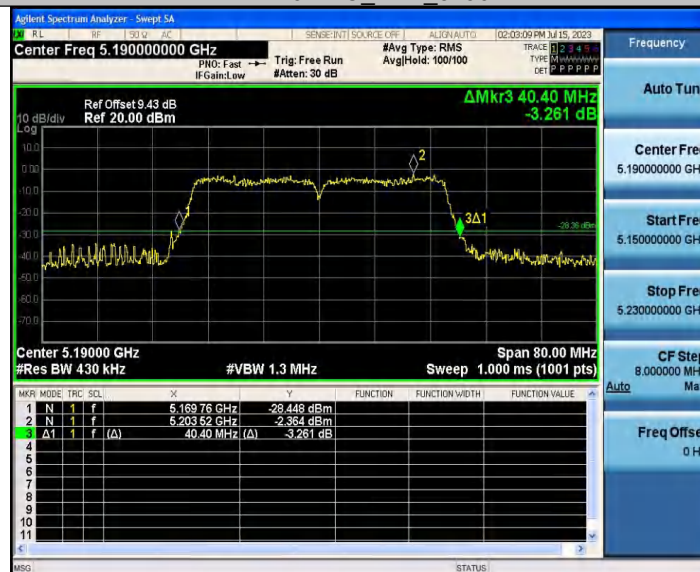
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



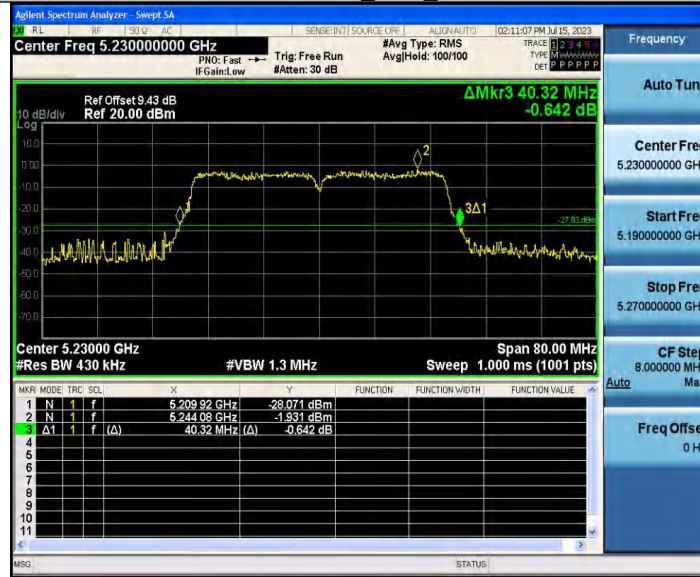


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11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



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11N40SISO_Ant1_5510



11N40SISO_Ant1_5670





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11N40SISO_Ant1_5755



11N40SISO_Ant1_5795





5.2 Appendix B: 6DB EMISSION BANDWIDTH

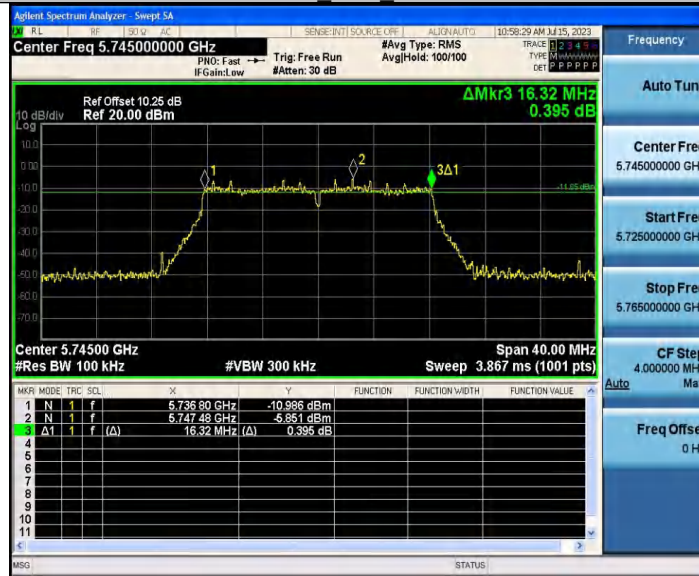
5.2.1 Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.800	5753.120	0.5	PASS
		5785	16.360	5776.800	5793.160	0.5	PASS
		5825	16.360	5816.800	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11N40SISO	Ant1	5755	35.440	5737.080	5772.520	0.5	PASS
		5795	35.360	5777.160	5812.520	0.5	PASS



5.2.2 Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



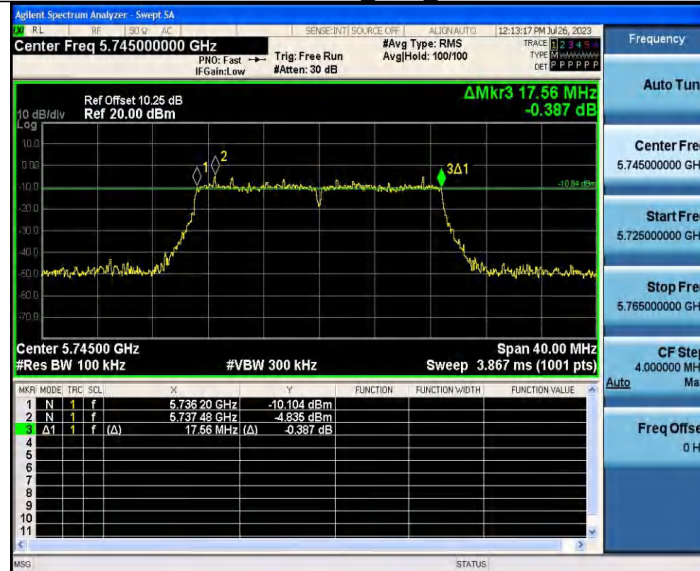
CVC Testing Technology Co., Ltd.

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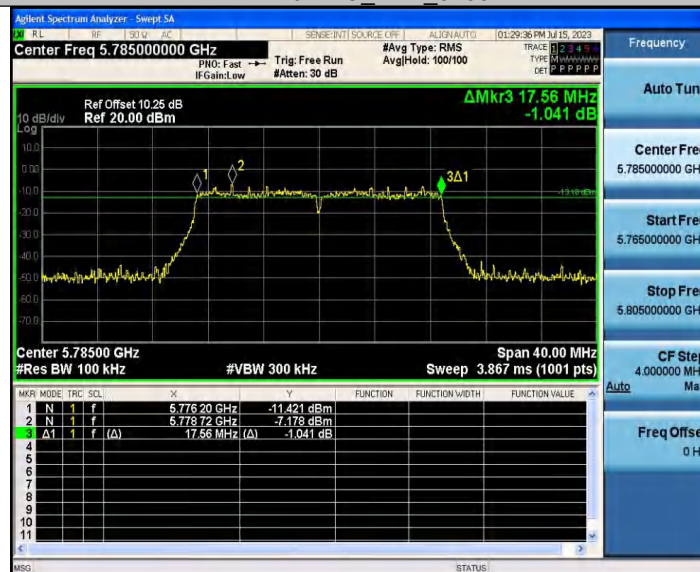
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



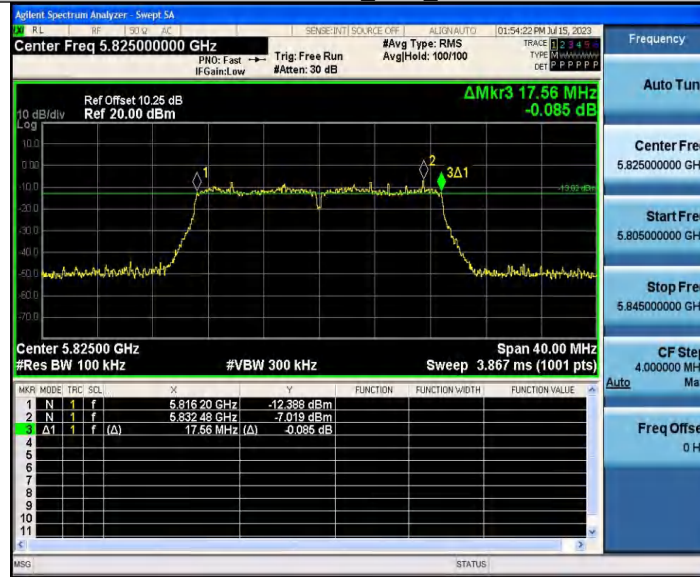


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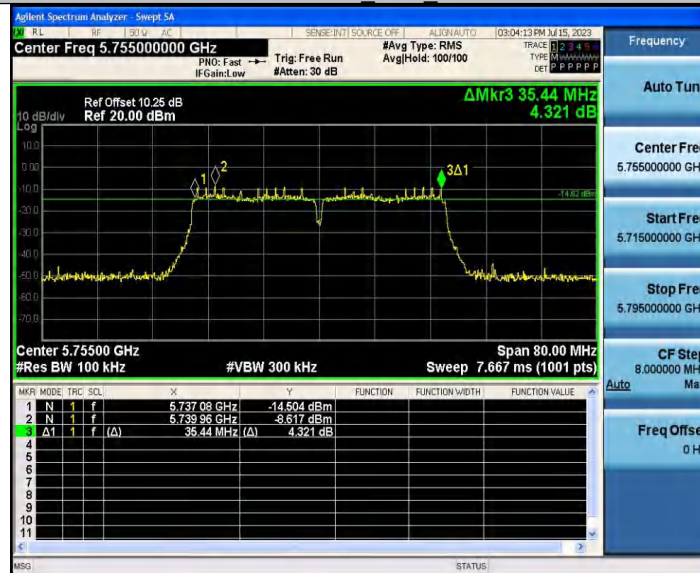
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



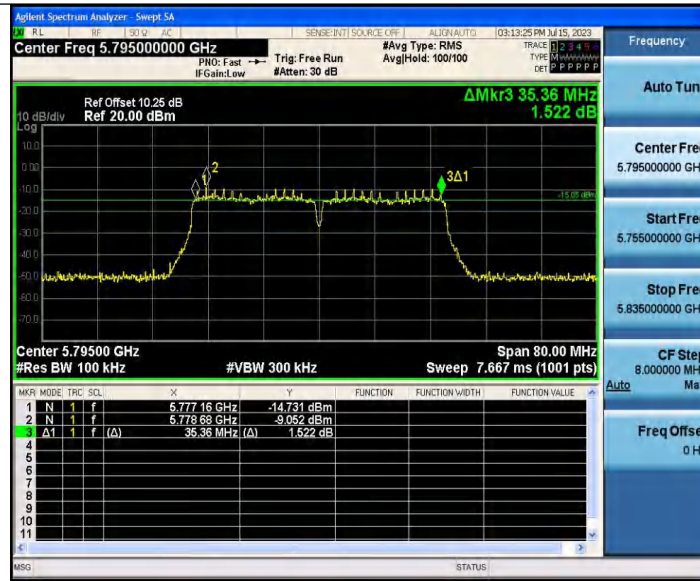
11N40SISO_Ant1_5795



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5.3 Appendix C: OCCUPIED CHANNEL BANDWIDTH

5.3.1 Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.077	5171.469	5188.546	---	---
		5200	16.988	5191.508	5208.496	---	---
		5240	17.030	5231.481	5248.511	---	---
		5260	17.052	5251.468	5268.520	---	---
		5300	17.037	5291.449	5308.486	---	---
		5320	17.021	5311.474	5328.495	---	---
		5500	17.022	5491.433	5508.455	---	---
		5580	17.022	5571.453	5588.475	---	---
		5700	17.062	5691.477	5708.539	---	---
		5745	17.019	5736.448	5753.467	---	---
		5785	17.021	5776.433	5793.454	---	---
11N20SISO	Ant1	5180	17.890	5171.030	5188.920	---	---
		5200	17.888	5191.055	5208.943	---	---
		5240	17.879	5231.062	5248.941	---	---
		5260	17.868	5251.063	5268.931	---	---
		5300	17.867	5291.057	5308.924	---	---
		5320	17.905	5311.034	5328.939	---	---
		5500	17.873	5491.018	5508.891	---	---
		5580	17.890	5571.040	5588.930	---	---
		5700	17.871	5691.050	5708.921	---	---
		5745	17.861	5736.042	5753.903	---	---
		5785	17.854	5776.038	5793.892	---	---
11N40SISO	Ant1	5190	36.600	5171.706	5208.306	---	---
		5230	36.528	5211.759	5248.287	---	---
		5270	36.615	5251.722	5288.337	---	---
		5310	36.536	5291.721	5328.257	---	---
		5510	36.651	5491.605	5528.256	---	---
		5670	36.586	5651.735	5688.321	---	---
		5755	36.509	5736.702	5773.211	---	---
		5795	36.588	5776.665	5813.253	---	---



5.3.2 Test Graphs

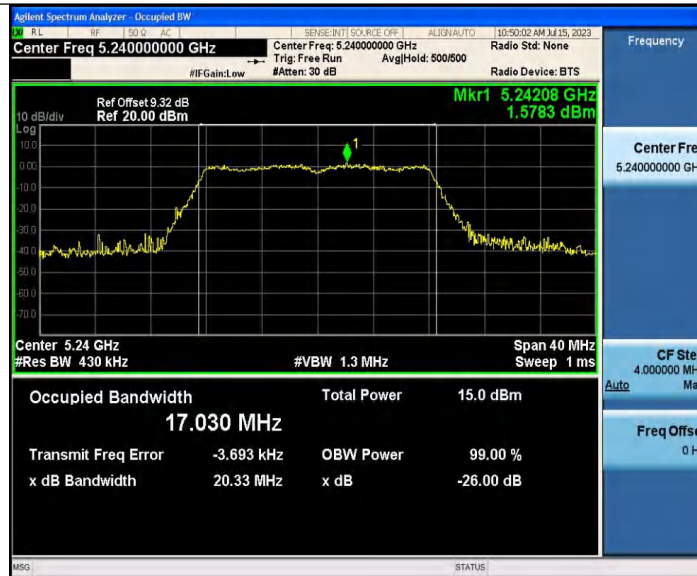




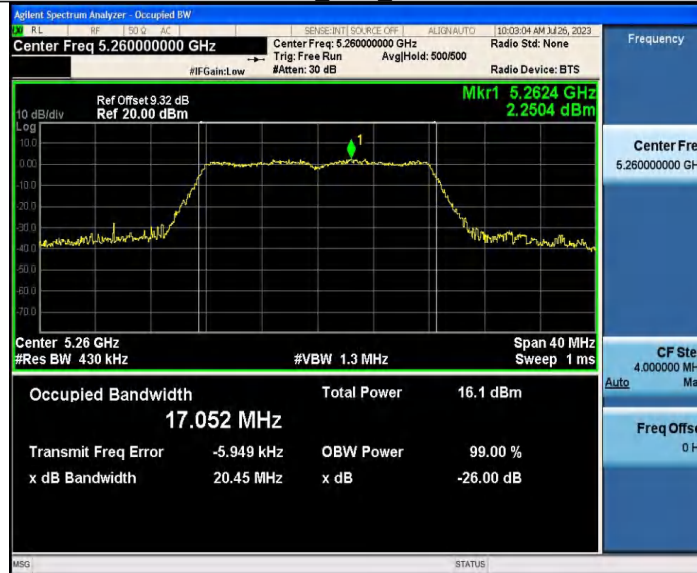
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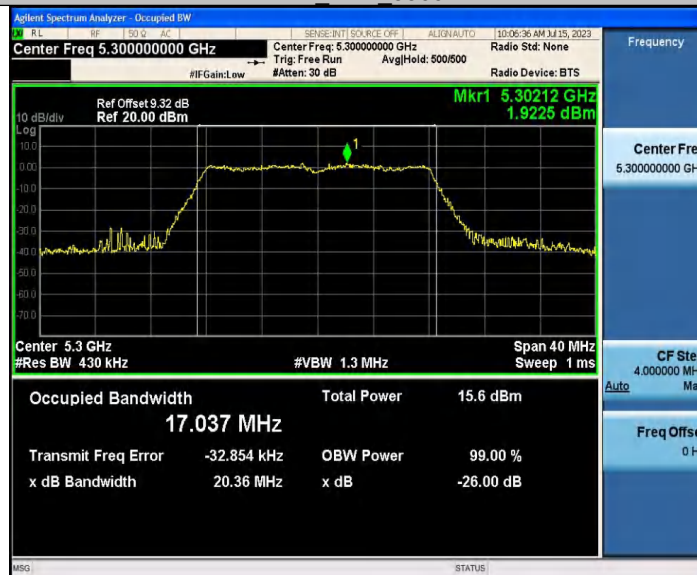
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11A Ant1 5260



11A Ant1 5300



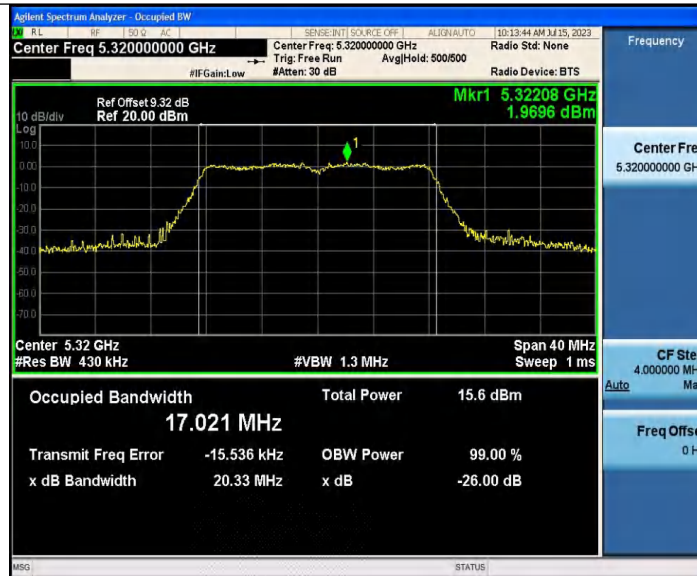
11A Ant1 5320



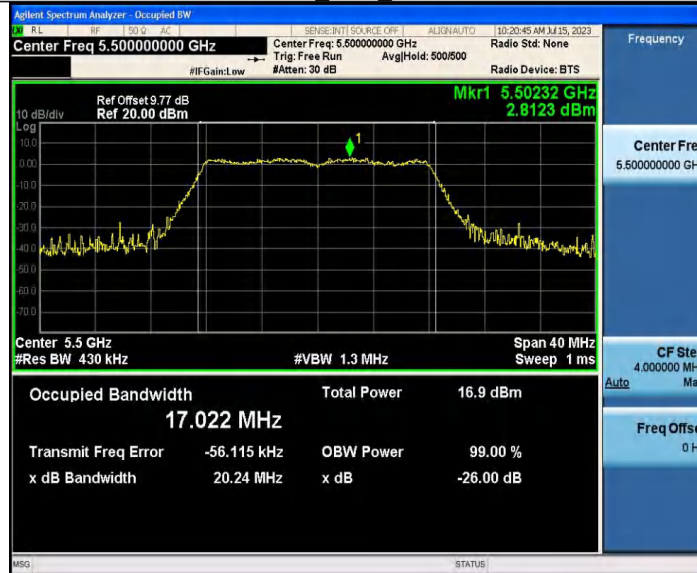
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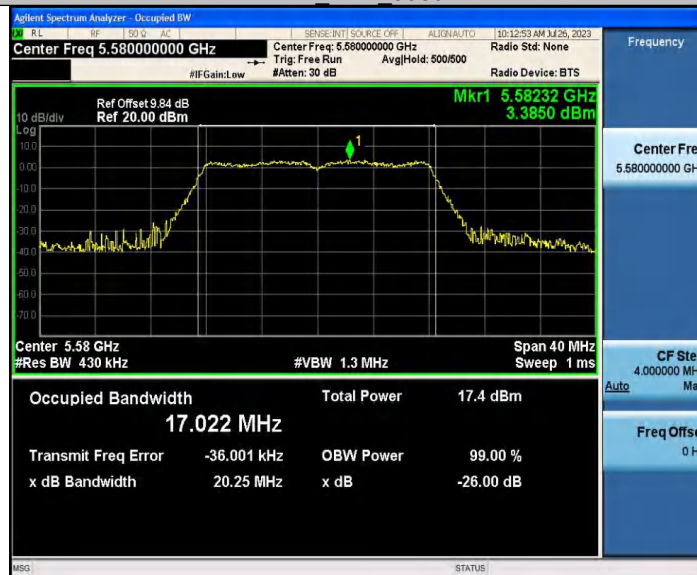
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11A Ant1 5500



11A Ant1 5580



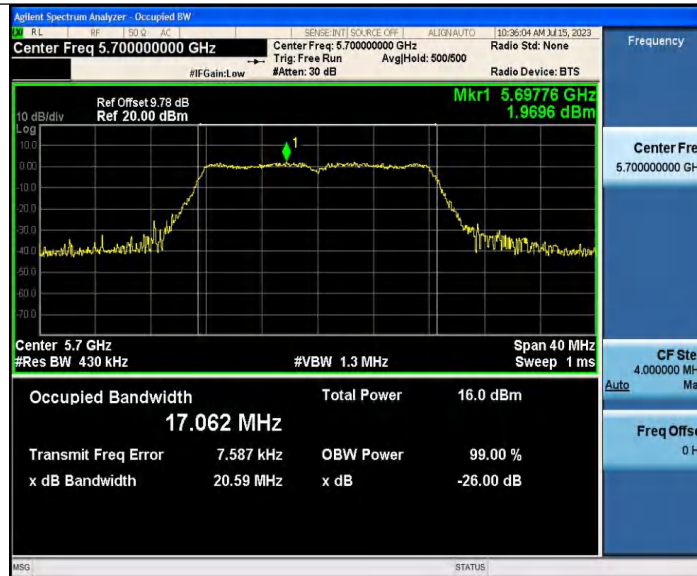
11A Ant1 5700



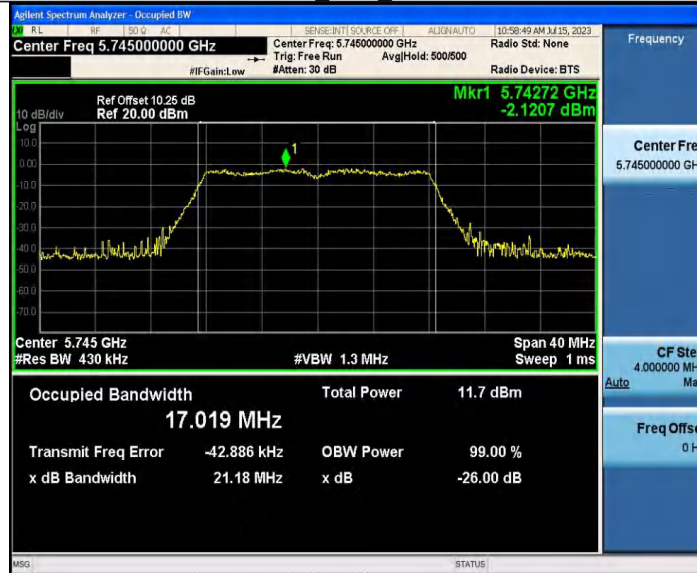
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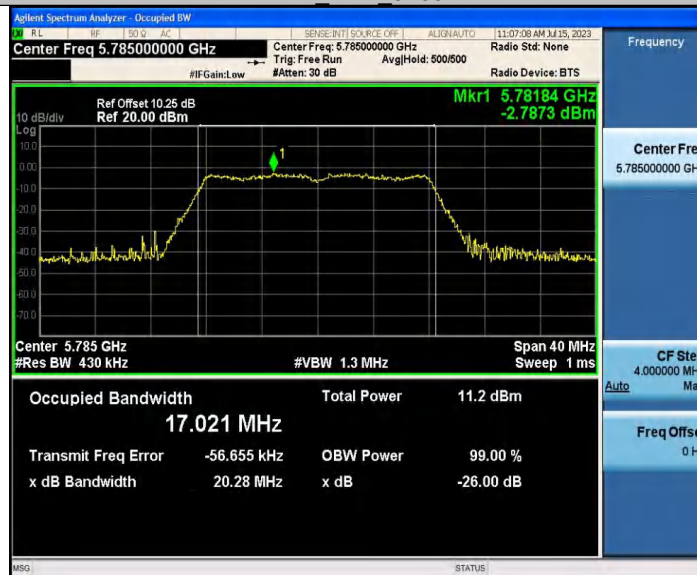
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11A_Ant1_5745



11A_Ant1_5785



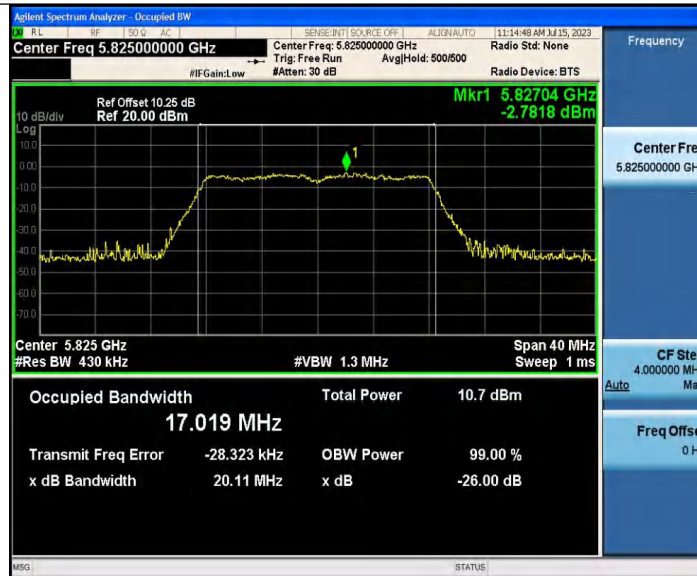
11A_Ant1_5825



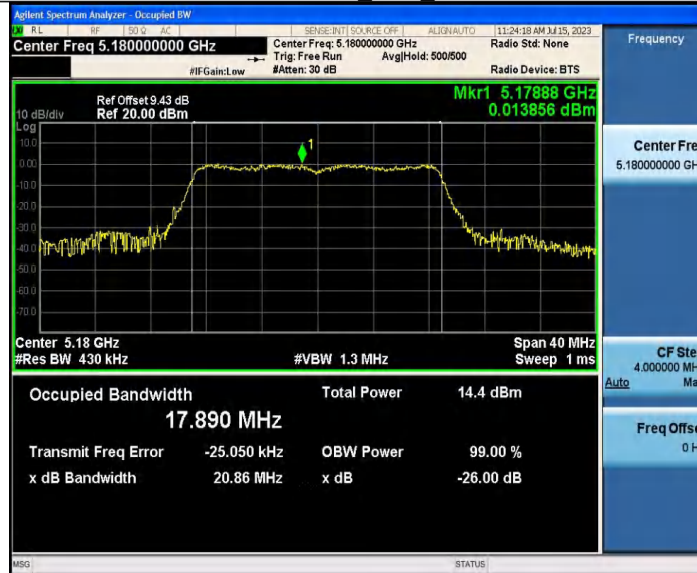
CVC Testing Technology Co., Ltd.

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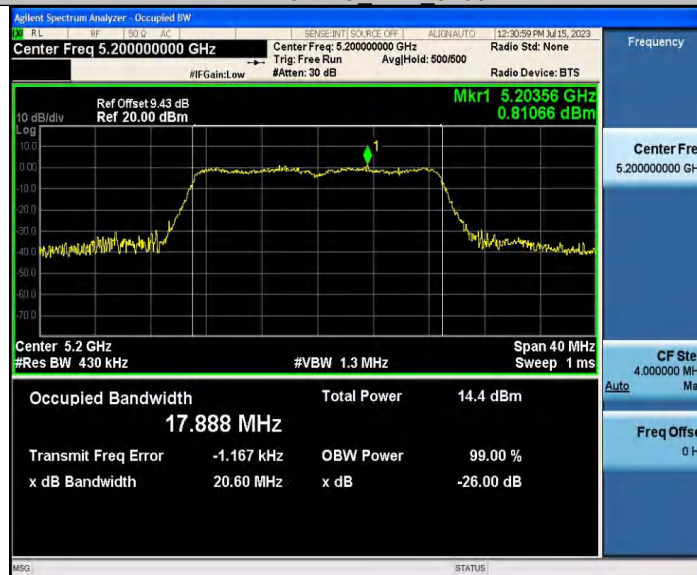
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



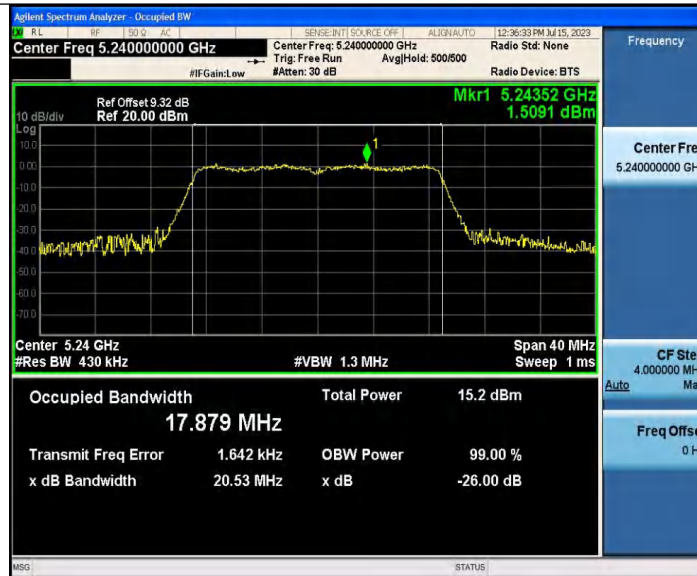
11N20SISO_Ant1_5240



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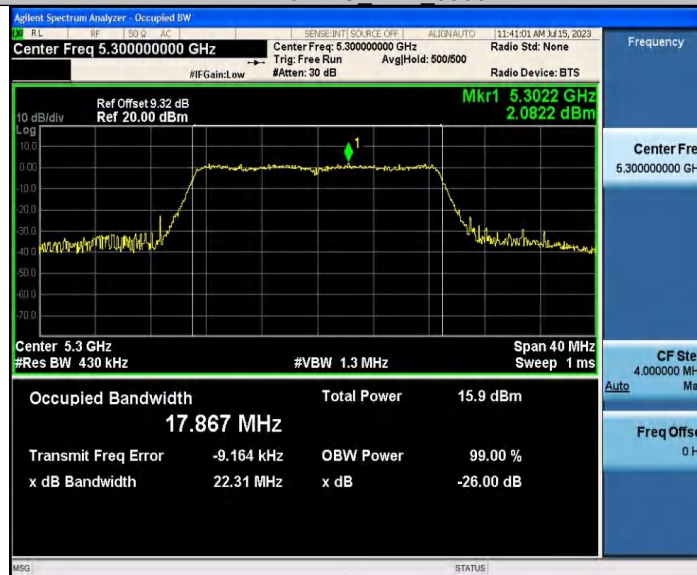
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11N20SISO_Ant1_5260



11N20SISO_Ant1_5300



11N20SISO_Ant1_5320



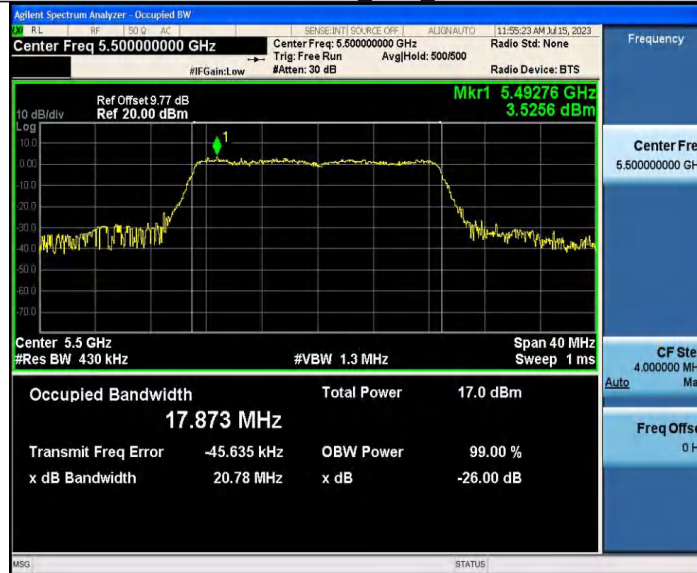
CVC Testing Technology Co., Ltd.

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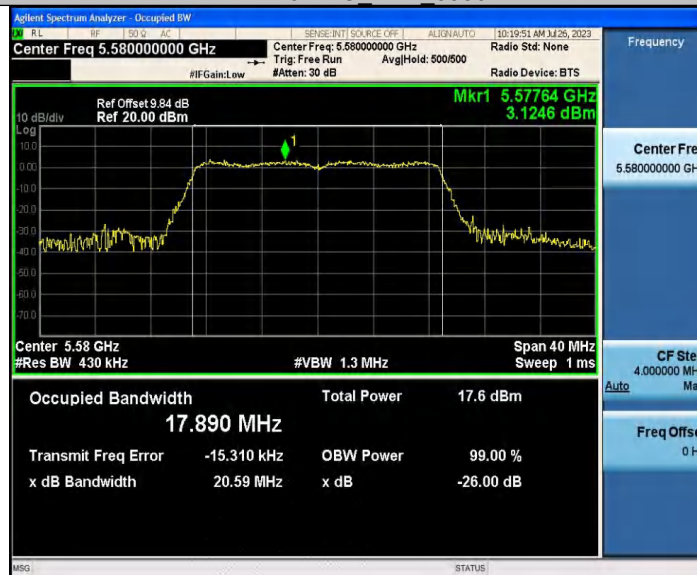
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11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



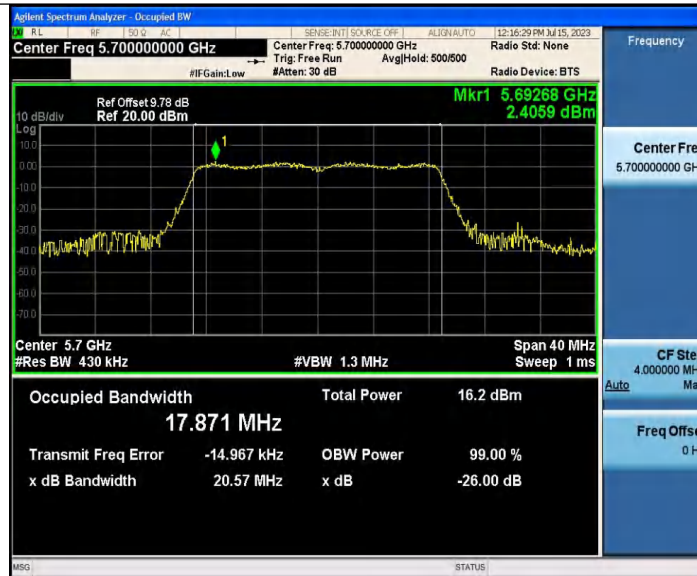
11N20SISO_Ant1_5700



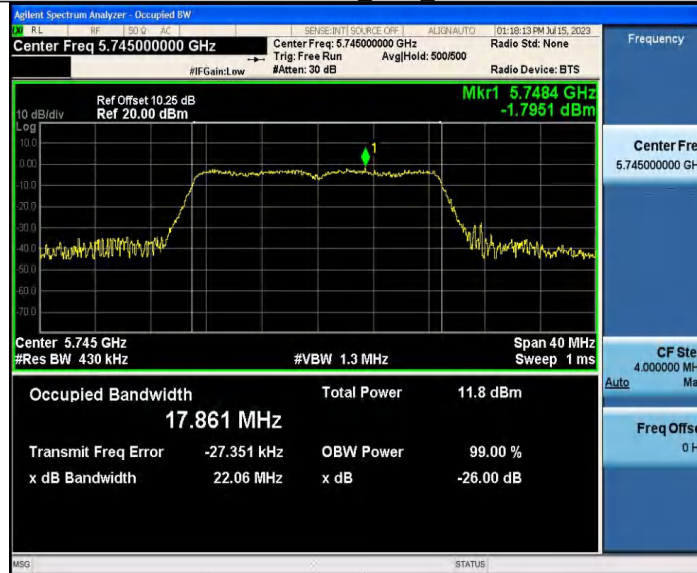
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



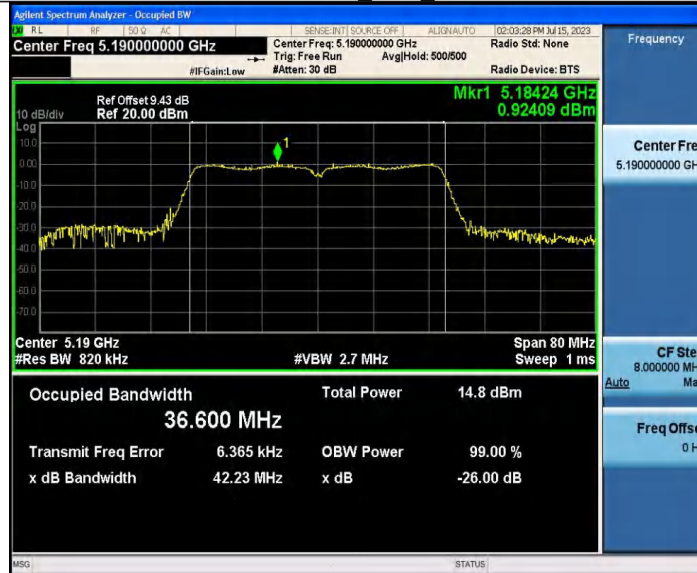
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11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



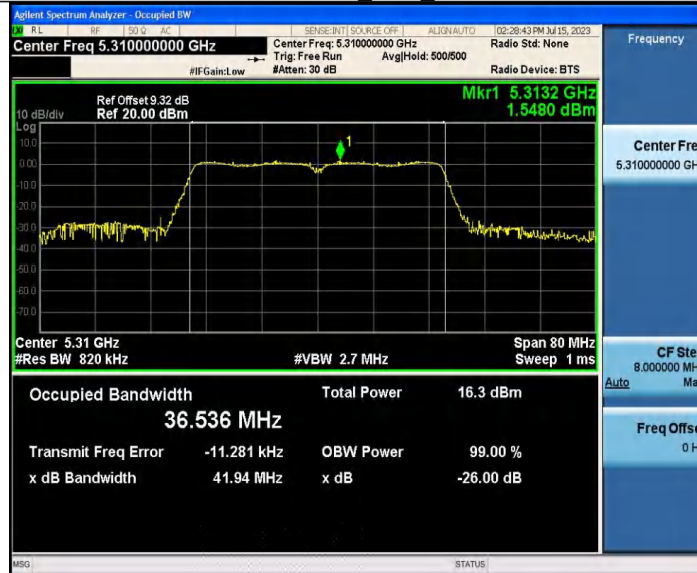
CVC Testing Technology Co., Ltd.

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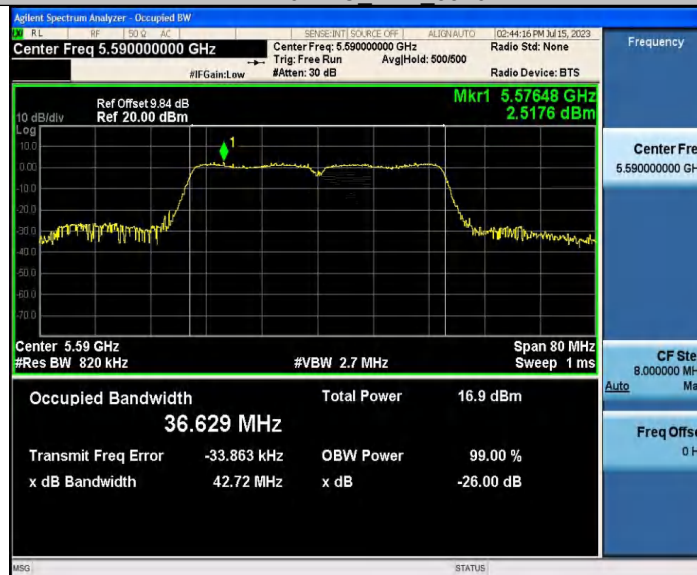
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11N40SISO_Ant1_5310



11N40SISO_Ant1_5510



11N40SISO_Ant1_5670



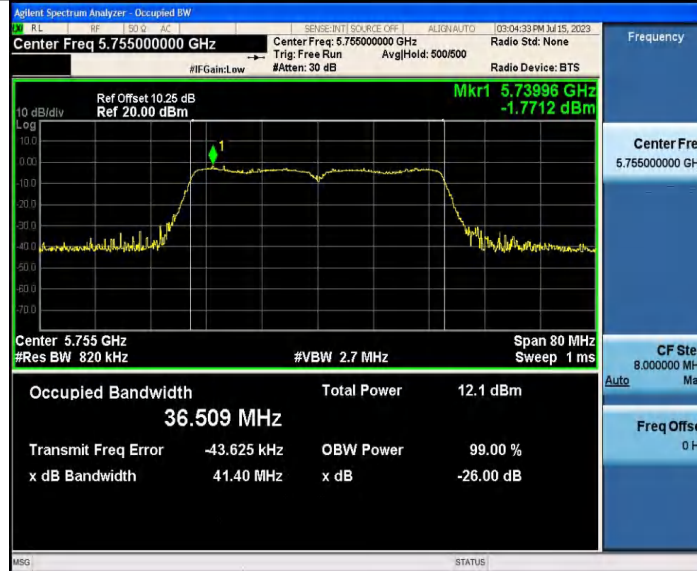
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11N40SISO Ant1 5755



11N40SISO Ant1 5795





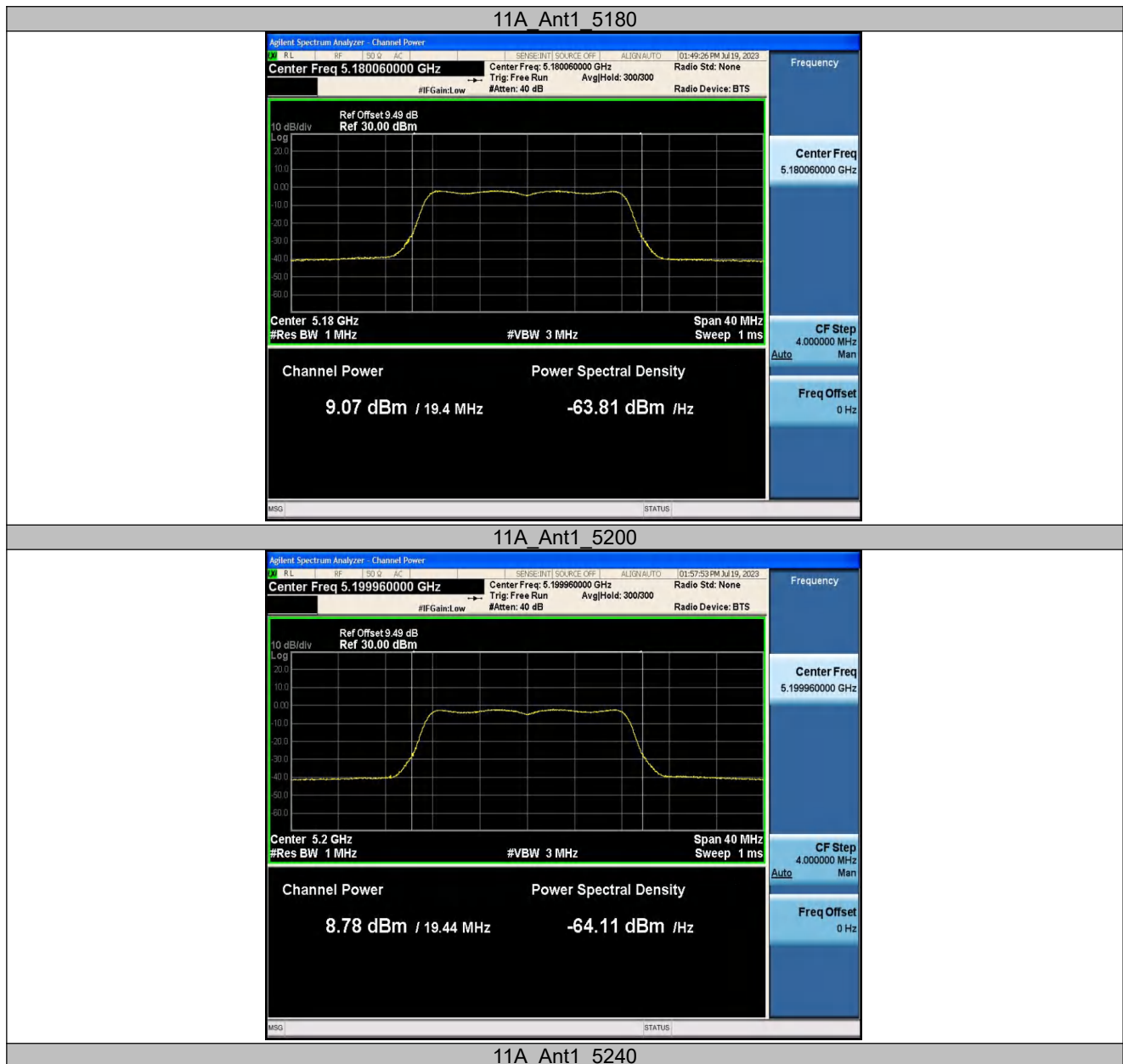
5.4 Appendix D: CONDUCTED OUTPUT POWER MEASUREMENT

5.4.1 Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	9.07	≤23.98	PASS
		5200	8.78	≤23.98	PASS
		5240	9.28	≤23.98	PASS
		5260	9.29	≤23.93	PASS
		5300	9.76	≤23.93	PASS
		5320	9.91	≤23.90	PASS
		5500	10.93	≤23.93	PASS
		5580	10.69	≤23.88	PASS
		5700	9.75	≤23.98	PASS
		5745	5.70	≤30.00	PASS
		5785	5.01	≤30.00	PASS
		5825	4.91	≤30.00	PASS
11N20SISO	Ant1	5180	9.09	≤23.98	PASS
		5200	9.03	≤23.98	PASS
		5240	9.48	≤23.98	PASS
		5260	9.56	≤23.98	PASS
		5300	9.85	≤23.98	PASS
		5320	9.99	≤23.98	PASS
		5500	10.99	≤23.98	PASS
		5580	10.91	≤23.98	PASS
		5700	10.06	≤23.98	PASS
		5745	5.97	≤30.00	PASS
		5785	5.27	≤30.00	PASS
		5825	4.58	≤30.00	PASS
11N40SISO	Ant1	5190	8.92	≤23.98	PASS
		5230	9.39	≤23.98	PASS
		5270	9.54	≤23.98	PASS
		5310	9.85	≤23.98	PASS
		5510	10.93	≤23.98	PASS
		5670	10.02	≤23.98	PASS
		5755	5.64	≤30.00	PASS
		5795	5.05	≤30.00	PASS



5.4.2 Test Graphs

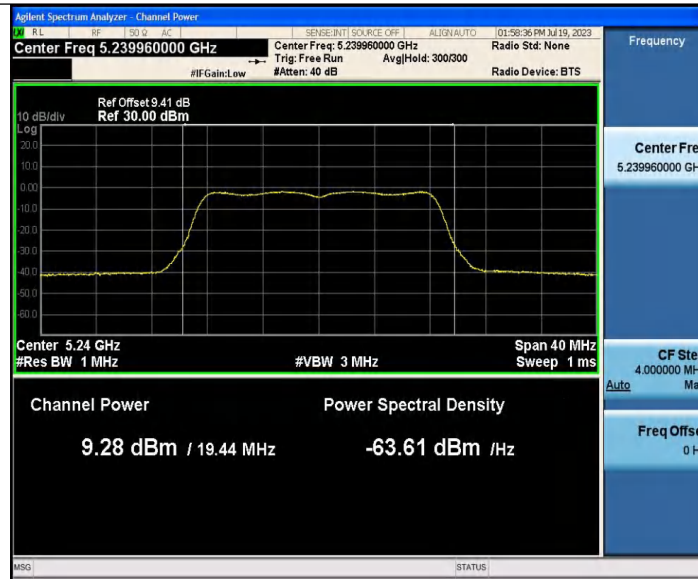




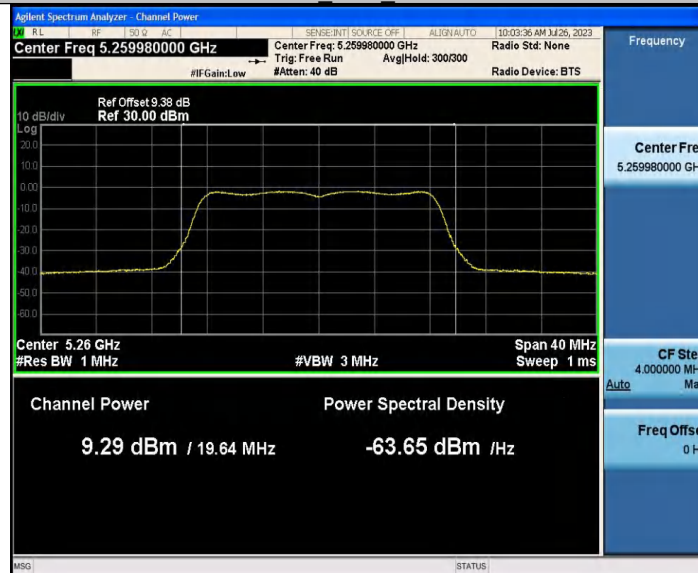
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11A_Ant1_5260



11A_Ant1_5300



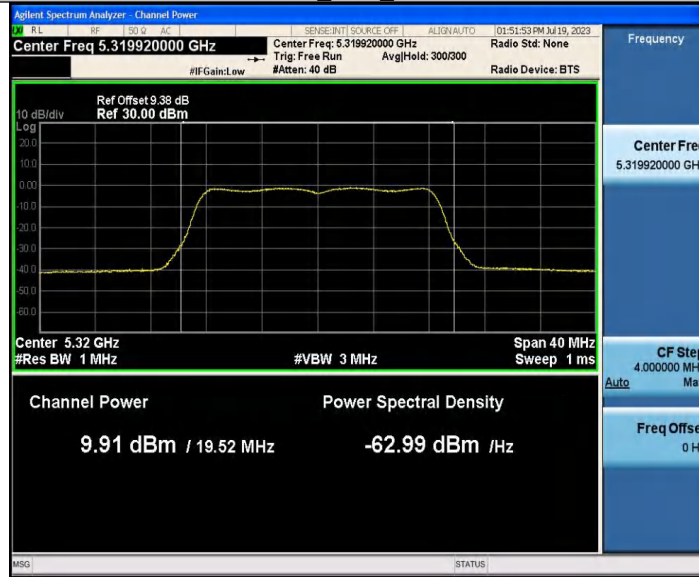


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11A_Ant1_5320



11A_Ant1_5500



11A_Ant1_5580



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11A_Ant1_5700



11A_Ant1_5745



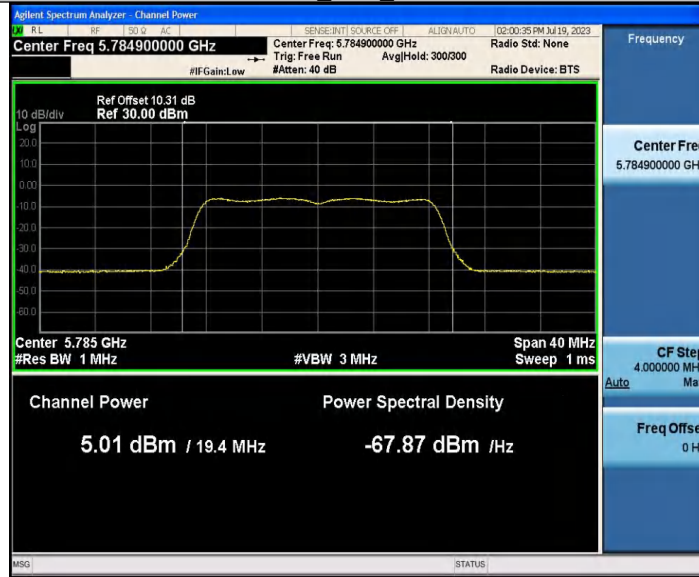


CVC Testing Technology Co., Ltd.

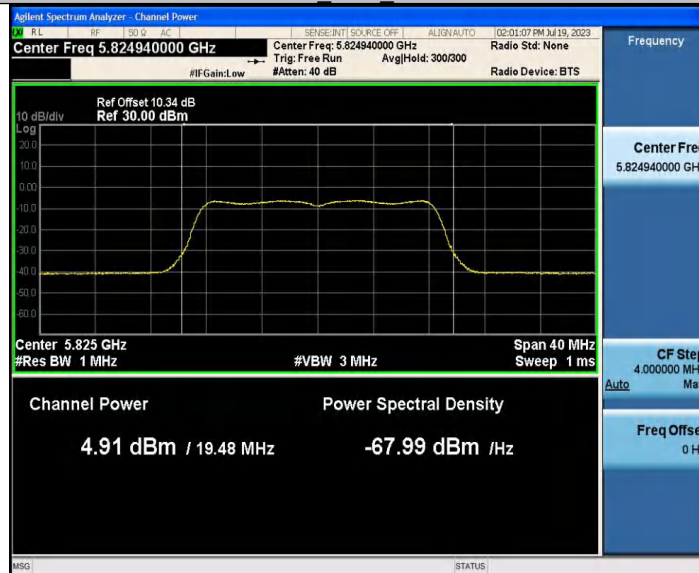
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11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



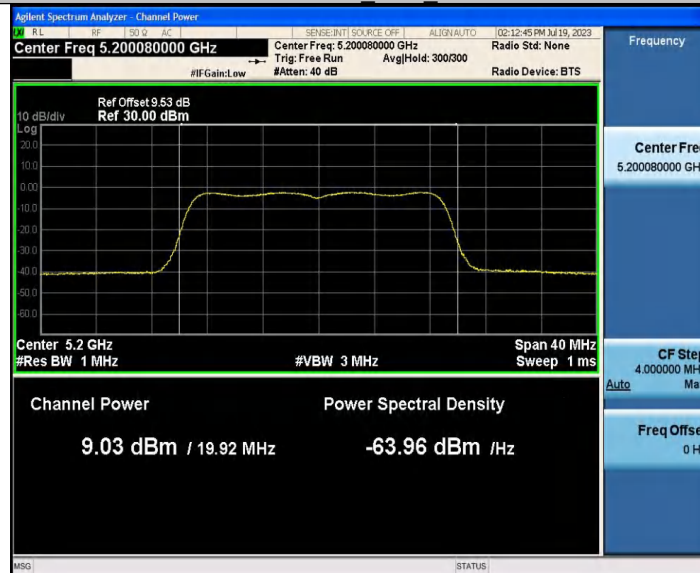
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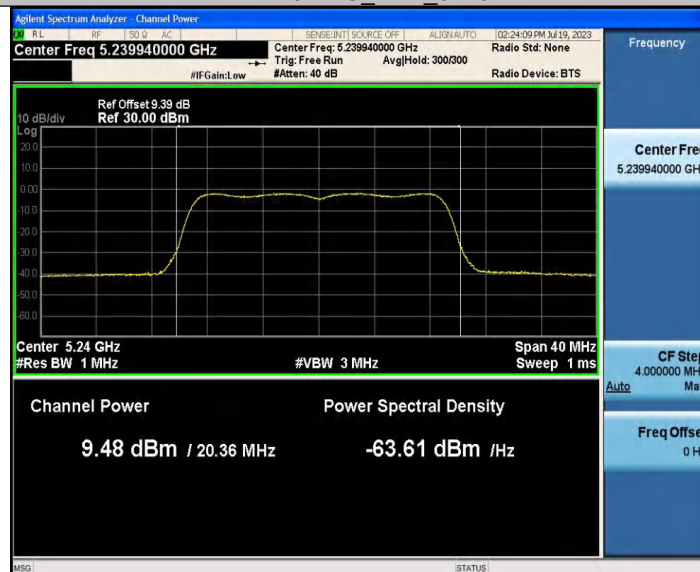
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11N20SISO_Ant1_5200



11N20SISO_Ant1_5240





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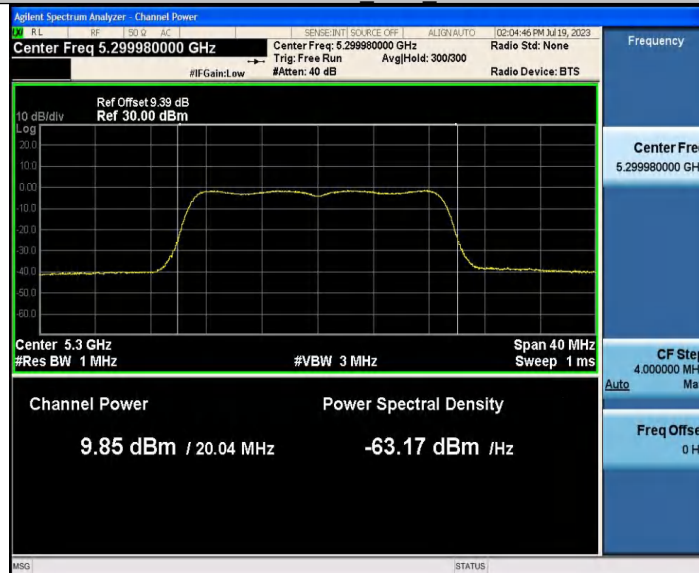
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11N20SISO_Ant1_5260



11N20SISO_Ant1_5300



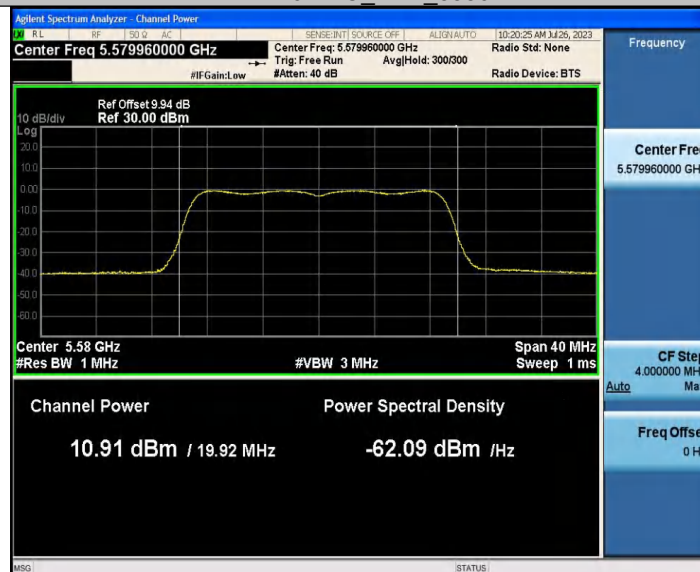
11N20SISO_Ant1_5320



11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



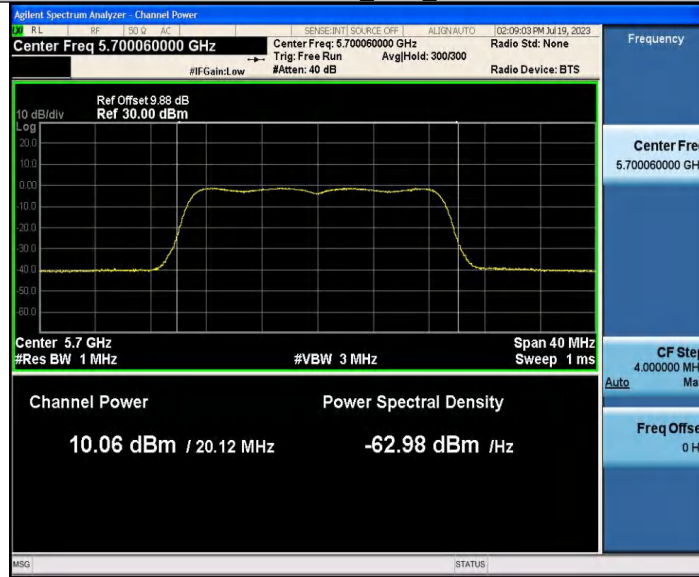


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11N20SISO_Ant1_5700



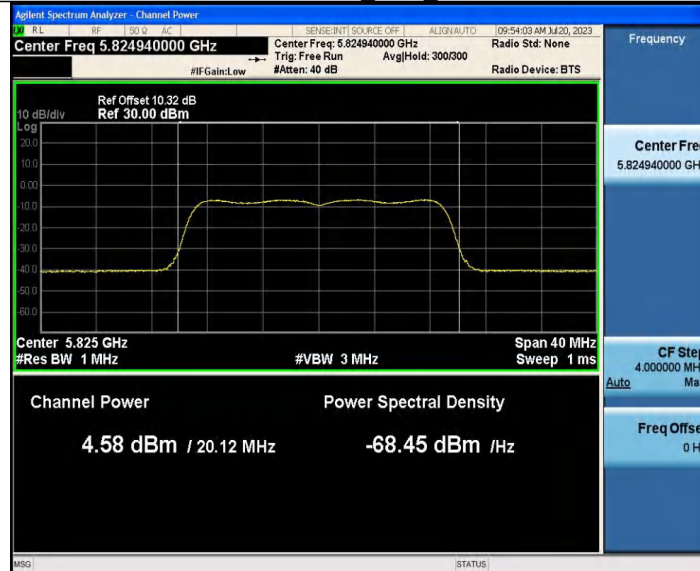
11N20SISO_Ant1_5745



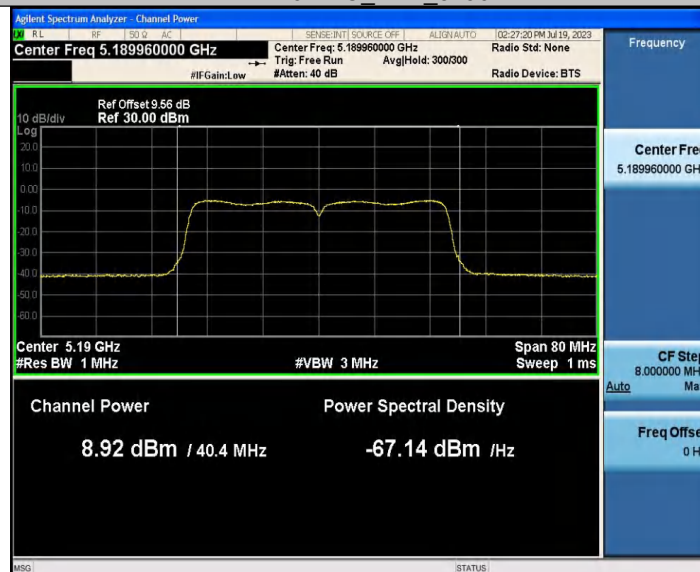
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

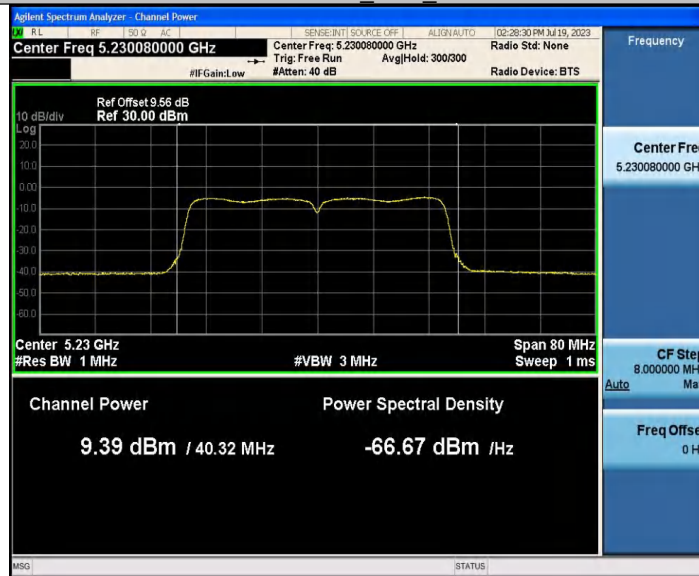


11N40SISO_Ant1_5190

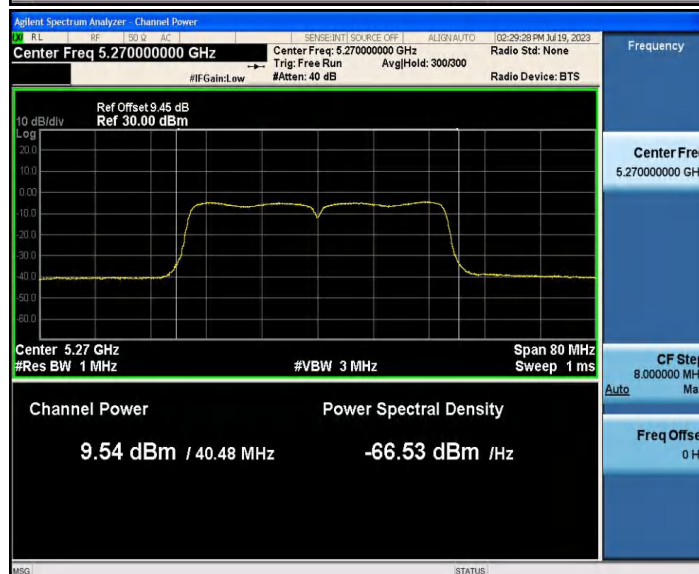




11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



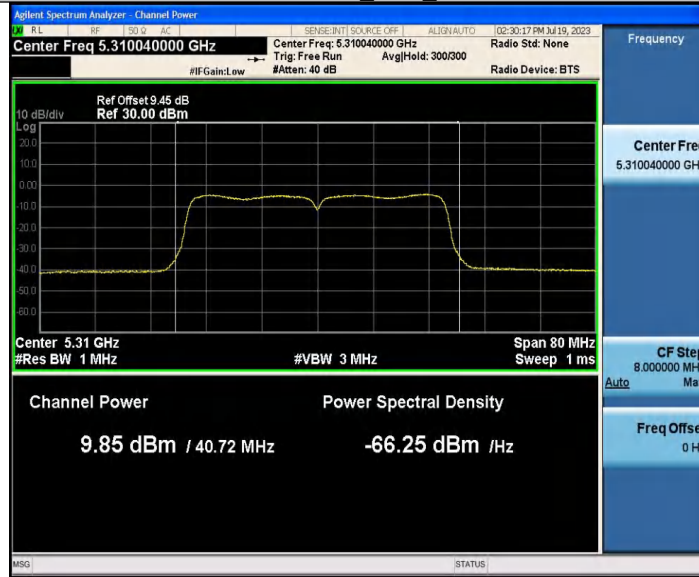


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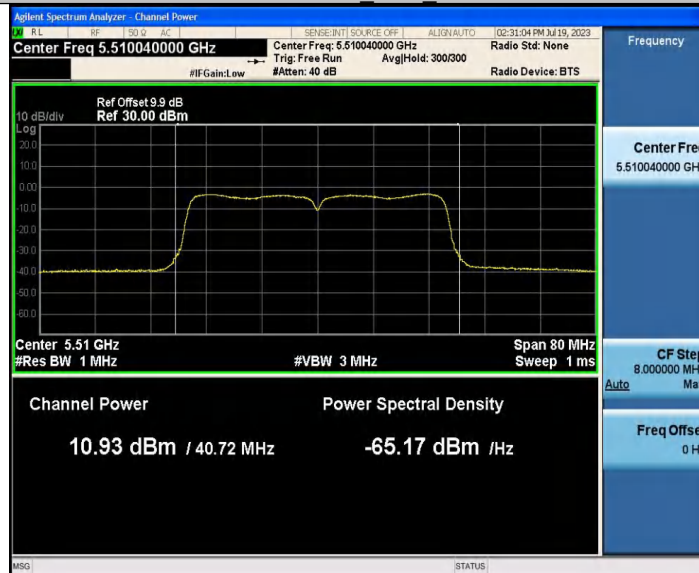
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11N40SISO_Ant1_5310



11N40SISO_Ant1_5510



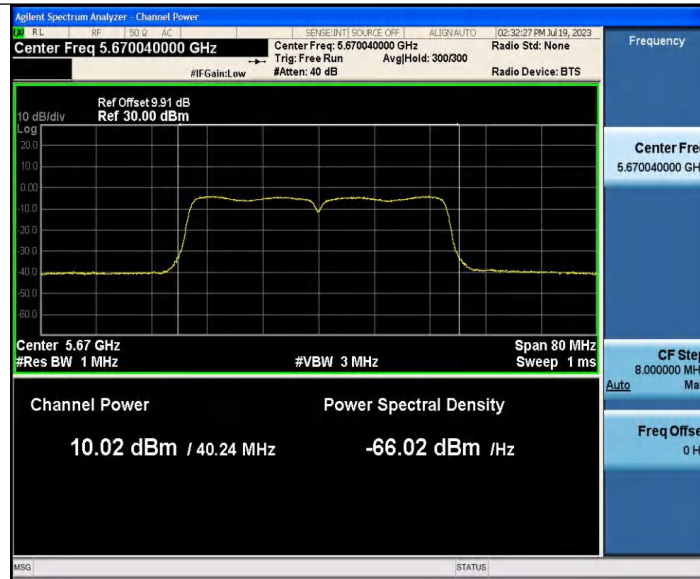
11N40SISO_Ant1_5670



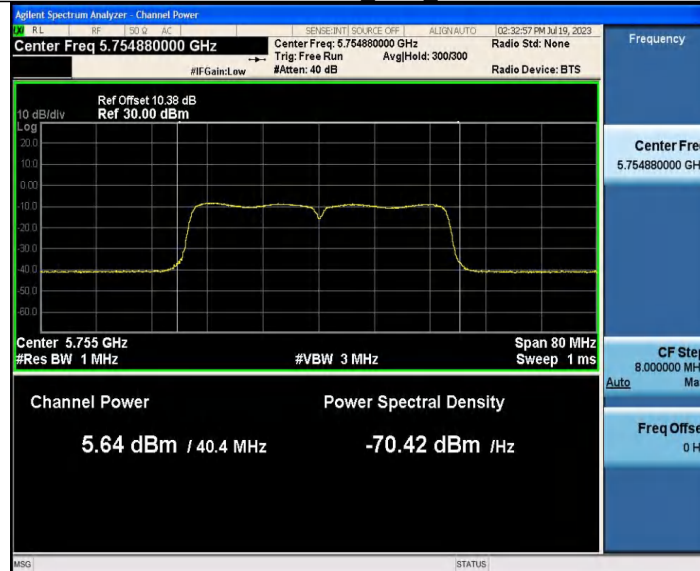
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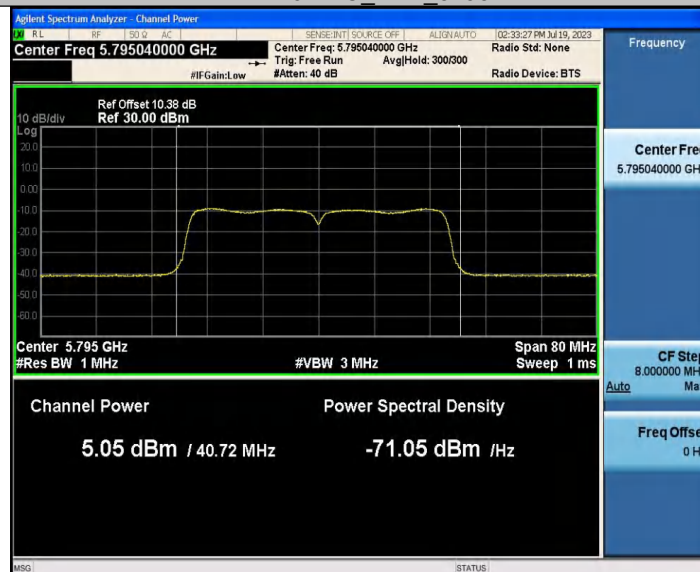
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11N40SISO_Ant1_5755



11N40SISO_Ant1_5795







5.5 Appendix E: POWER SPECTRAL DENSITY MEASUREMENT

5.5.1 Test Result

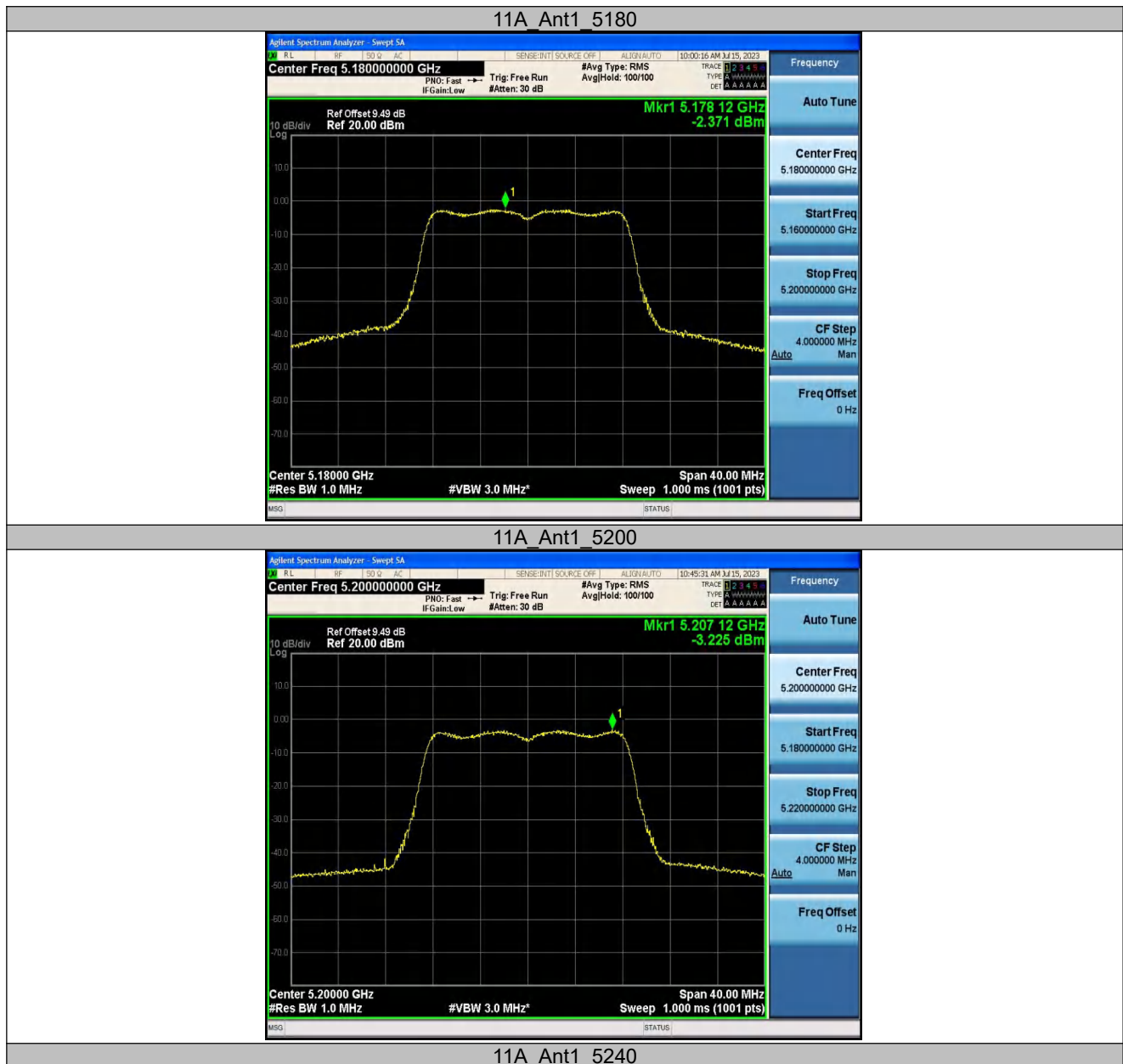
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-2.37	≤11.00	PASS
		5200	-3.23	≤11.00	PASS
		5240	-2.55	≤11.00	PASS
		5260	-1.33	≤11.00	PASS
		5300	-1.73	≤11.00	PASS
		5320	-1.99	≤11.00	PASS
		5500	-0.57	≤11.00	PASS
		5580	-0.26	≤11.00	PASS
		5700	-1.68	≤11.00	PASS
		5745	-8.73	≤30.00	PASS
		5785	-9.19	≤30.00	PASS
		5825	-9.67	≤30.00	PASS
11N20SISO	Ant1	5180	-3.25	≤11.00	PASS
		5200	-3.18	≤11.00	PASS
		5240	-2.61	≤11.00	PASS
		5260	-2.63	≤11.00	PASS
		5300	-1.97	≤11.00	PASS
		5320	-1.97	≤11.00	PASS
		5500	-0.66	≤11.00	PASS
		5580	-0.33	≤11.00	PASS
		5700	-1.73	≤11.00	PASS
		5745	-8.65	≤30.00	PASS
		5785	-9.25	≤30.00	PASS
		5825	-9.77	≤30.00	PASS
11N40SISO	Ant1	5190	-6.3	≤11.00	PASS
		5230	-5.59	≤11.00	PASS
		5270	-5.52	≤11.00	PASS
		5310	-5	≤11.00	PASS
		5510	-3.37	≤11.00	PASS
		5670	-4.8	≤11.00	PASS
		5755	-11.86	≤30.00	PASS
		5795	-12.16	≤30.00	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.



5.5.2 Test Graphs





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11A Ant1 5260



11A Ant1 5300





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11A_Ant1_5320



11A_Ant1_5500



11A_Ant1_5580



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11A Ant1 5700



11A Ant1 5745





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11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



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11N20SISO_Ant1_5200



11N20SISO_Ant1_5240





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11N20SISO_Ant1_5260



11N20SISO_Ant1_5300



11N20SISO_Ant1_5320



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11N20SISO_Ant1_5500



11N20SISO_Ant1_5580





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11N20SISO_Ant1_5700



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



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11N20SISO_Ant1_5825



11N40SISO_Ant1_5190





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11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



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11N40SISO_Ant1_5670





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11N40SISO_Ant1_5755



11N40SISO_Ant1_5795





5.6 Appendix F: FREQUENCY STABILITY

5.6.1 Test Result

TestMode	Antenna	Channel	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)				
11A	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	-40000.00	-7.722008	20	PASS
		5200	NV	NT	-40000.00	-7.692308	20	PASS
			LV	NT	-40000.00	-7.692308	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
		5240	NV	NT	-40000.00	-7.633588	20	PASS
			LV	NT	-40000.00	-7.633588	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
		5260	NV	NT	-40000.00	-7.604563	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
		5300	NV	NT	-40000.00	-7.547170	20	PASS
			LV	NT	-40000.00	-7.547170	20	PASS
			HV	NT	-20000.00	-3.773585	20	PASS
		5320	NV	NT	-40000.00	-7.518797	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-40000.00	-7.518797	20	PASS
		5500	NV	NT	-20000.00	-3.636364	20	PASS
			LV	NT	-40000.00	-7.272727	20	PASS
			HV	NT	-40000.00	-7.272727	20	PASS
		5580	NV	NT	-40000.00	-7.168459	20	PASS
			LV	NT	-40000.00	-7.168459	20	PASS
			HV	NT	-40000.00	-7.168459	20	PASS
		5700	NV	NT	-40000.00	-7.017544	20	PASS
			LV	NT	-40000.00	-7.017544	20	PASS
			HV	NT	-40000.00	-7.017544	20	PASS
		5745	NV	NT	-40000.00	-6.962576	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
		5785	NV	NT	-40000.00	-6.914434	20	PASS
			LV	NT	-40000.00	-6.914434	20	PASS
			HV	NT	-40000.00	-6.914434	20	PASS
		5825	NV	NT	-40000.00	-6.866953	20	PASS
			LV	NT	-40000.00	-6.866953	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N20SISO	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	-40000.00	-7.722008	20	PASS
		5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-40000.00	-7.633588	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
		5260	NV	NT	-40000.00	-7.604563	20	PASS
			LV	NT	-40000.00	-7.604563	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
		5300	NV	NT	-40000.00	-7.547170	20	PASS
			LV	NT	-40000.00	-7.547170	20	PASS
			HV	NT	-20000.00	-3.773585	20	PASS
		5320	NV	NT	-20000.00	-3.759398	20	PASS
			LV	NT	-40000.00	-7.518797	20	PASS
			HV	NT	-40000.00	-7.518797	20	PASS
		5500	NV	NT	-20000.00	-3.636364	20	PASS



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			LV	NT	-40000.00	-7.272727	20	PASS
			HV	NT	-40000.00	-7.272727	20	PASS
		5580	NV	NT	-40000.00	-7.168459	20	PASS
			LV	NT	-40000.00	-7.168459	20	PASS
			HV	NT	-40000.00	-7.168459	20	PASS
		5700	NV	NT	-40000.00	-7.017544	20	PASS
			LV	NT	-40000.00	-7.017544	20	PASS
			HV	NT	-40000.00	-7.017544	20	PASS
		5745	NV	NT	-40000.00	-6.962576	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
		5785	NV	NT	-40000.00	-6.914434	20	PASS
			LV	NT	-60000.00	-10.371651	20	PASS
			HV	NT	-40000.00	-6.914434	20	PASS
		5825	NV	NT	-40000.00	-6.866953	20	PASS
			LV	NT	-40000.00	-6.866953	20	PASS
			HV	NT	-40000.00	-6.866953	20	PASS
11N40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	-40000.00	-7.648184	20	PASS
		5270	NV	NT	-40000.00	-7.590133	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
		5310	NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	-40000.00	-7.532957	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5510	NV	NT	-80000.00	-14.519056	20	PASS
			LV	NT	-80000.00	-14.519056	20	PASS
			HV	NT	-40000.00	-7.259528	20	PASS
		5670	NV	NT	-40000.00	-7.054674	20	PASS
			LV	NT	-40000.00	-7.054674	20	PASS
			HV	NT	-40000.00	-7.054674	20	PASS
		5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
		5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	-40000.00	-6.902502	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS

----- End of the Report -----



Important

- (1) The test report is valid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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