



### Appendix C

## RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Dashcam

Test Model: LS07D

#### Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan





### B.1 Min emission bandwidth

#### Test Result B4

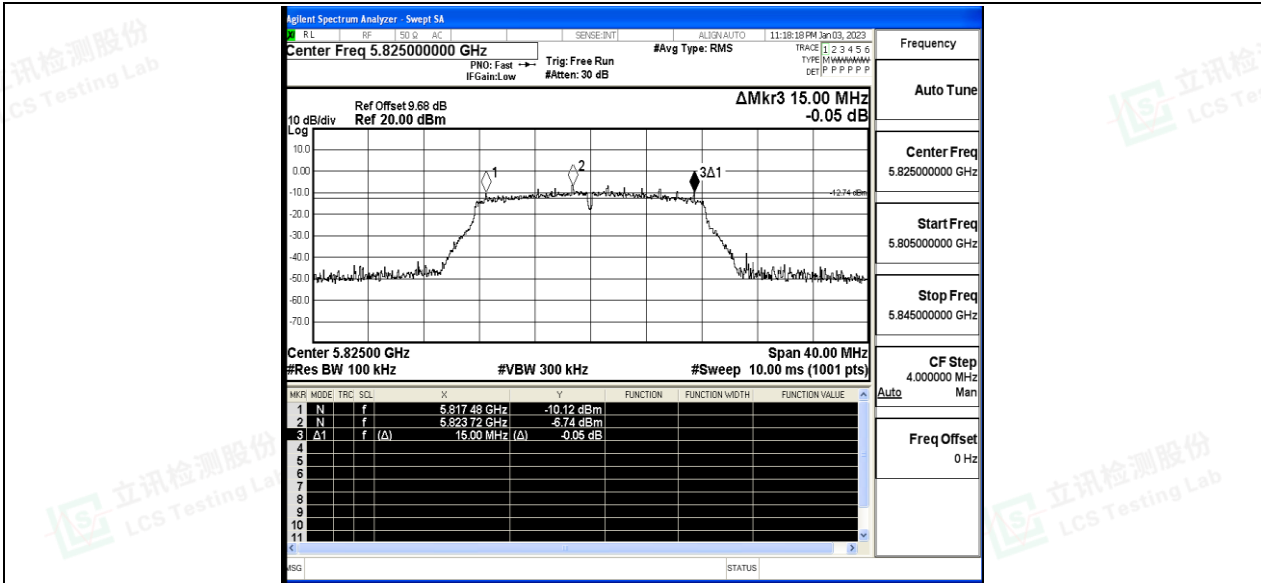
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	14.800	5737.680	5752.480	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.000	5817.480	5832.480	0.5	PASS
11N20SISO	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.040	5817.440	5832.480	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.040	5737.440	5752.480	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	15.440	5817.400	5832.840	0.5	PASS
11AC40SISO	Ant1	5755	33.840	5737.480	5771.320	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	73.760	5738.680	5812.440	0.5	PASS



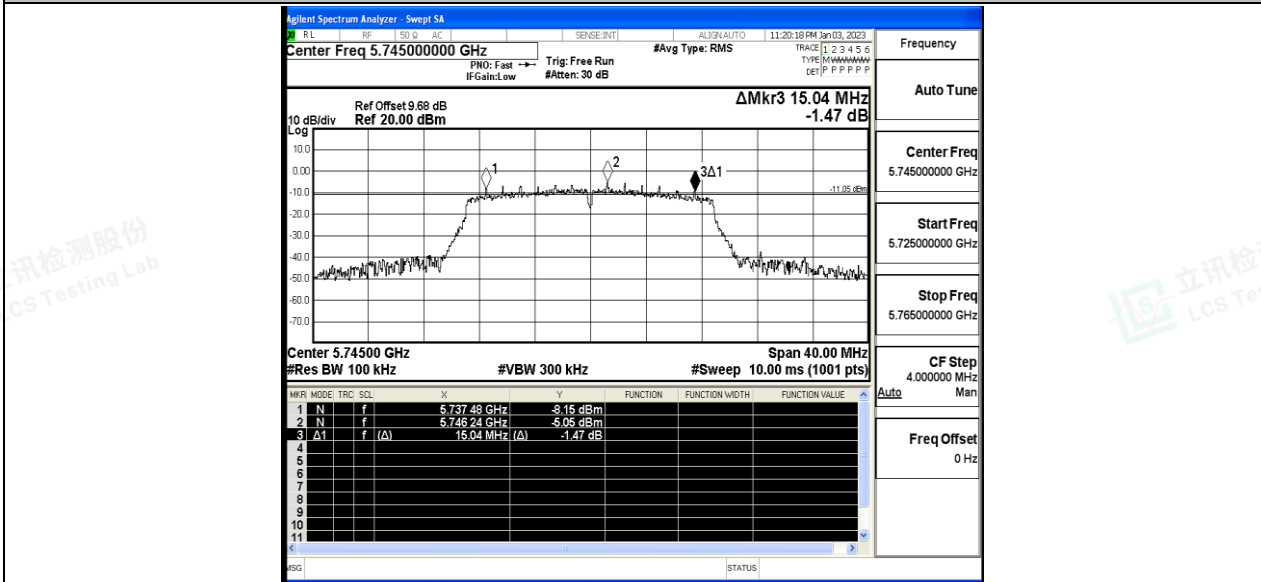


### Test Graphs B4



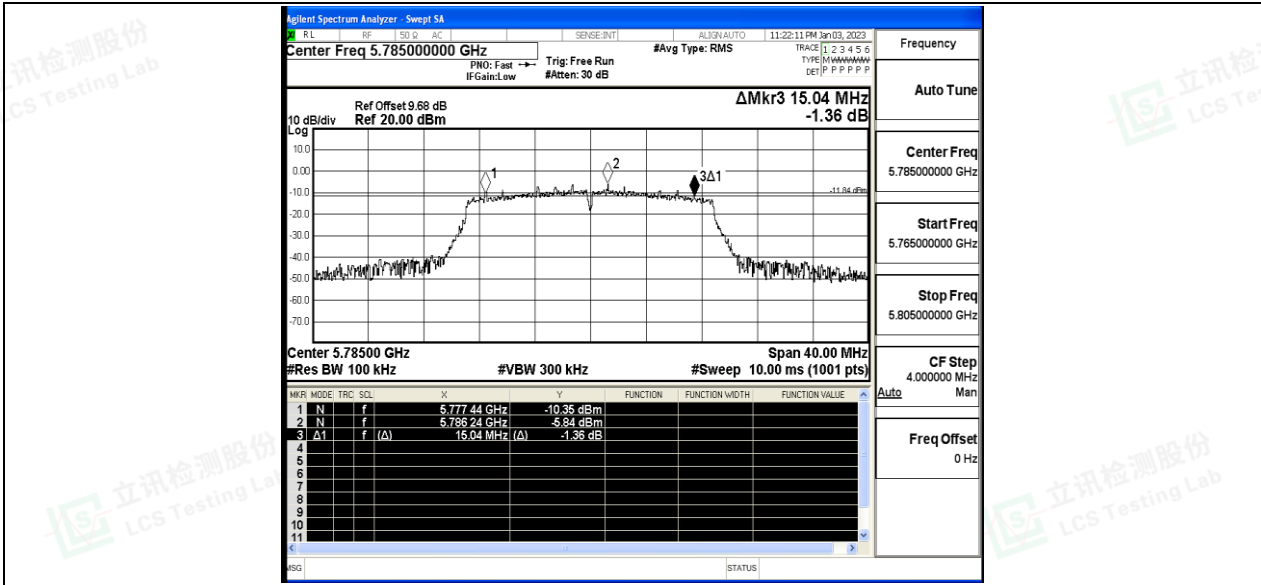


11N20SISO\_Ant1\_5745

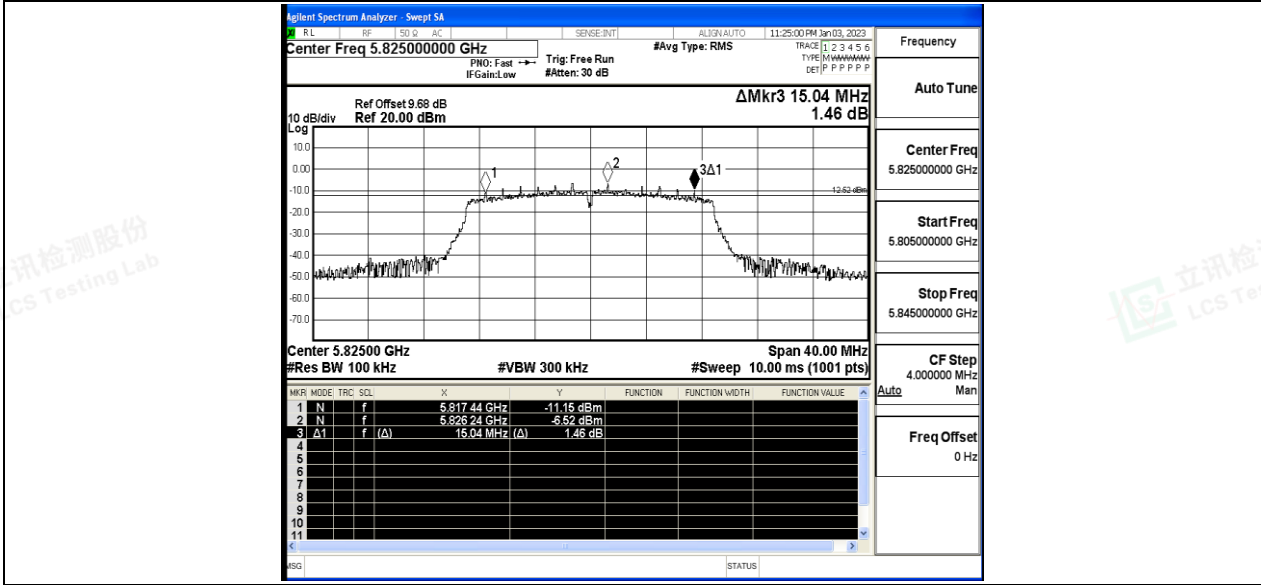


11N20SISO\_Ant1\_5785



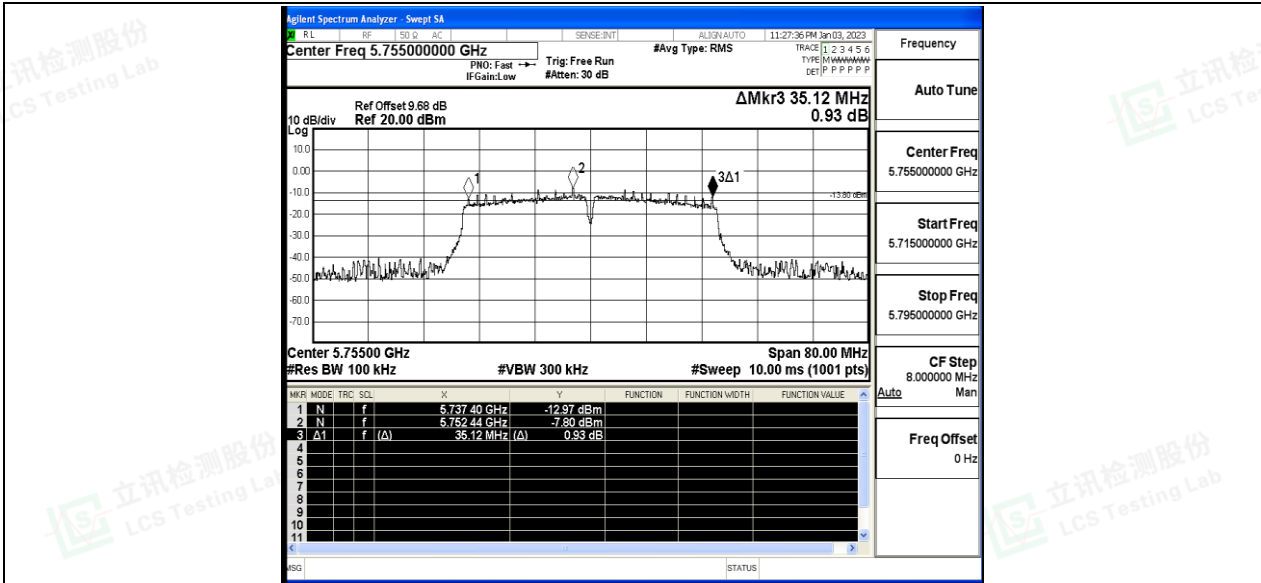


11N20SISO\_Ant1\_5825

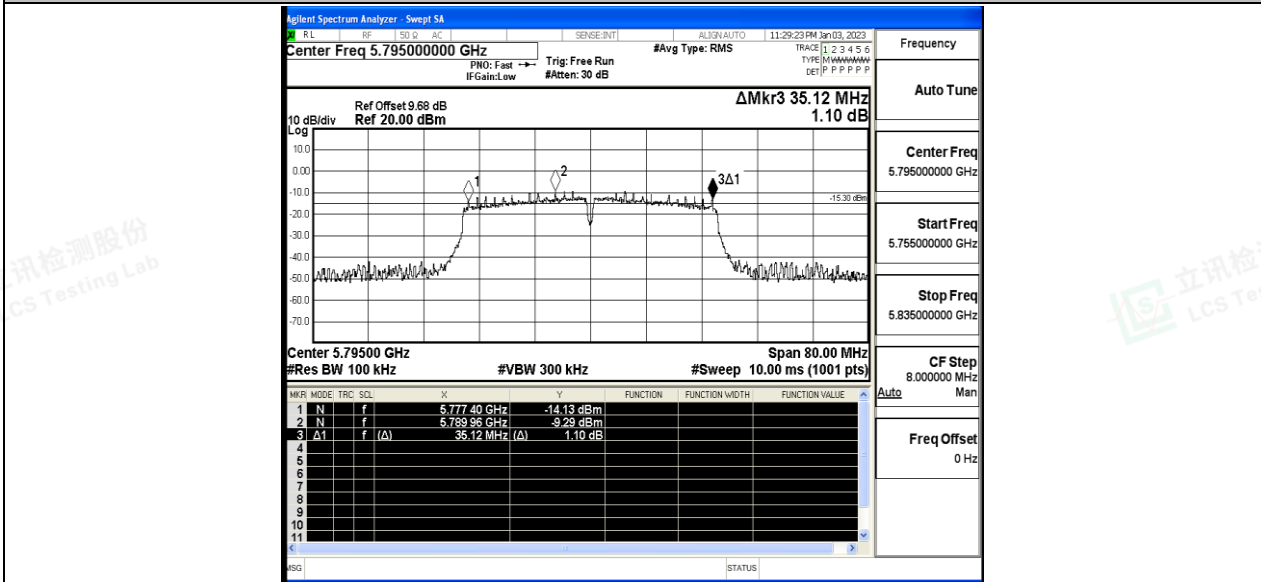


11N40SISO\_Ant1\_5755



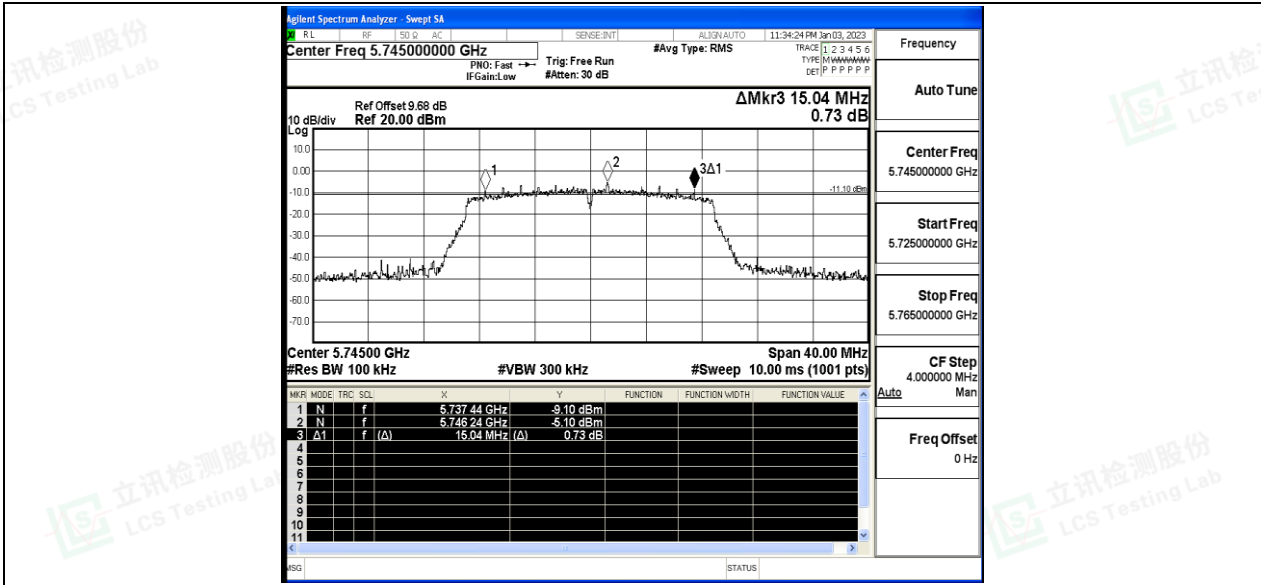


11N40SISO\_Ant1\_5795

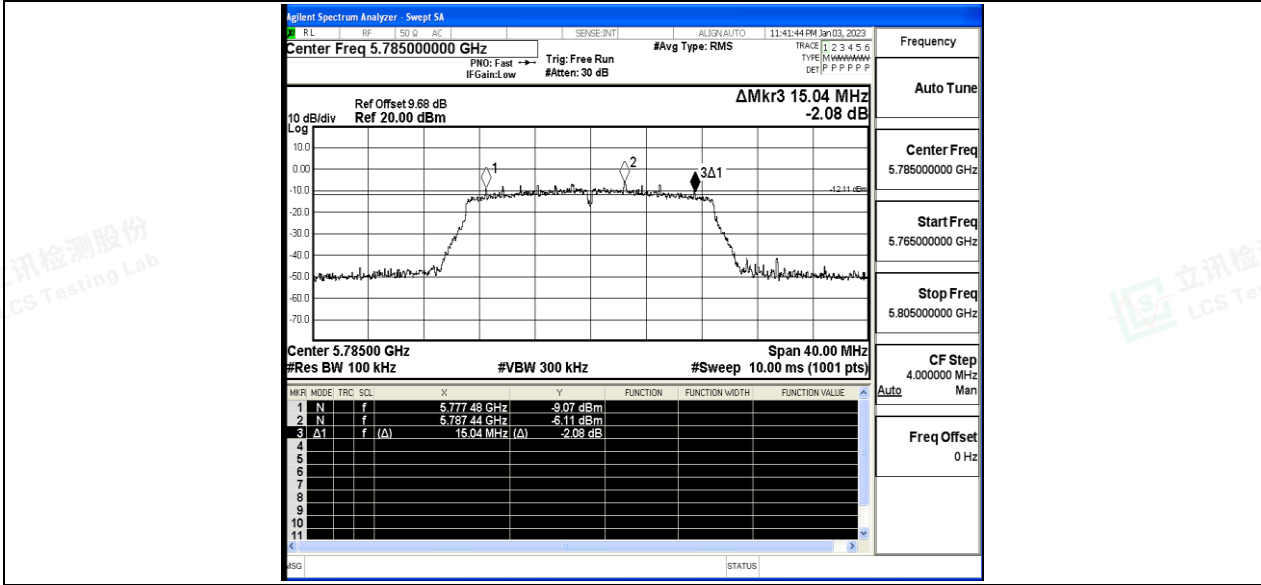


11AC20SISO\_Ant1\_5745



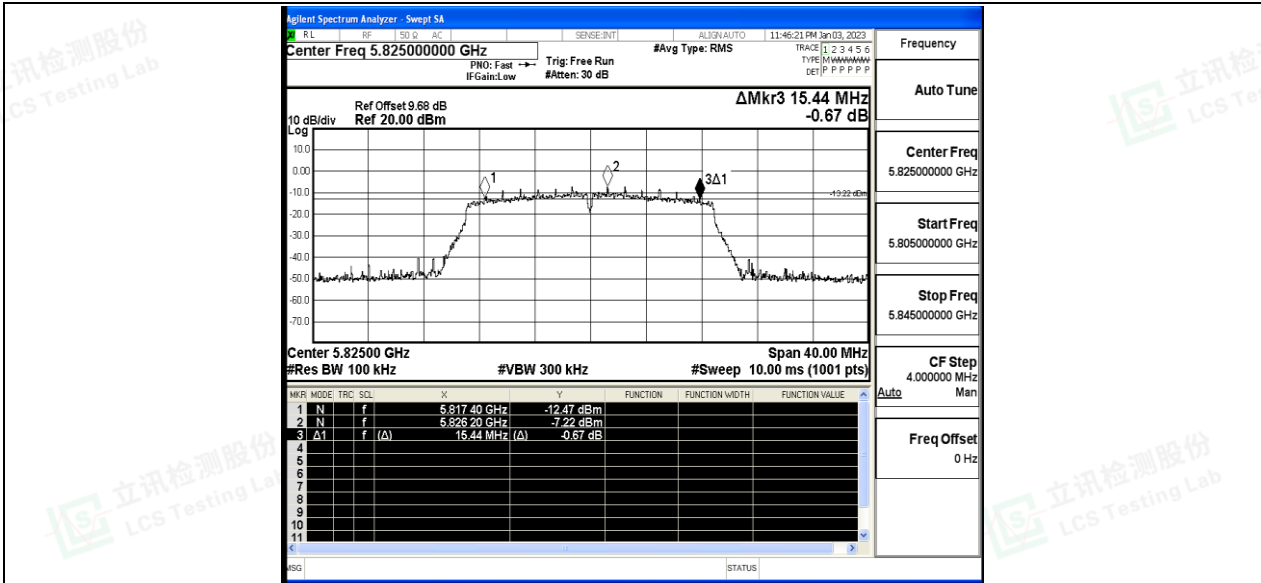


11AC20SISO\_Ant1\_5785

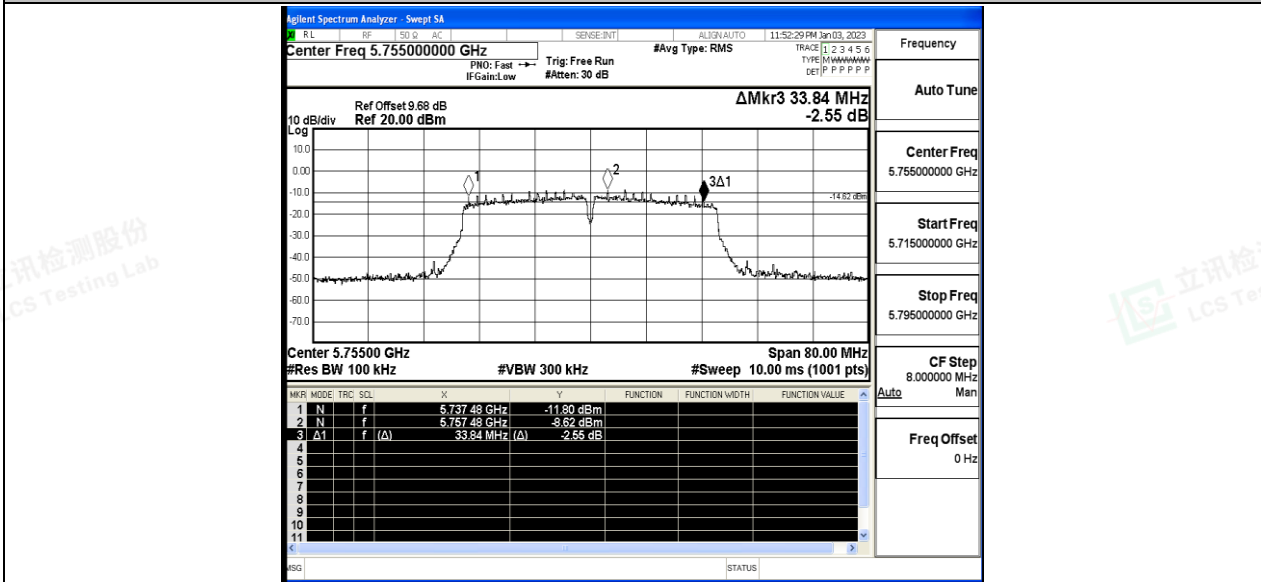


11AC20SISO\_Ant1\_5825





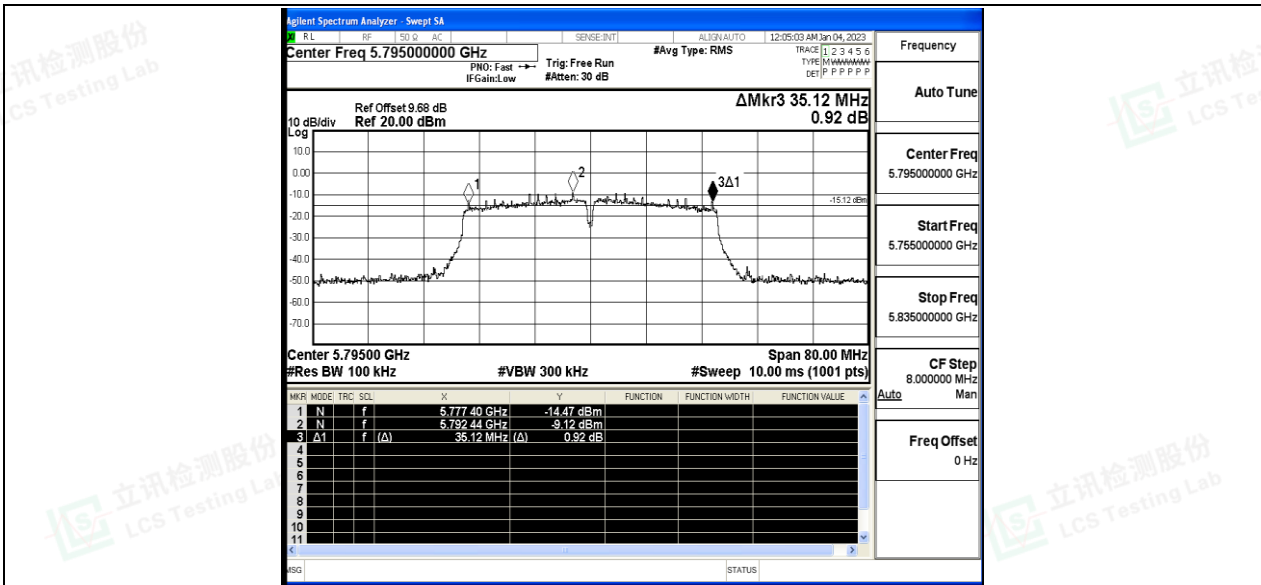
11AC40SISO\_Ant1\_5755



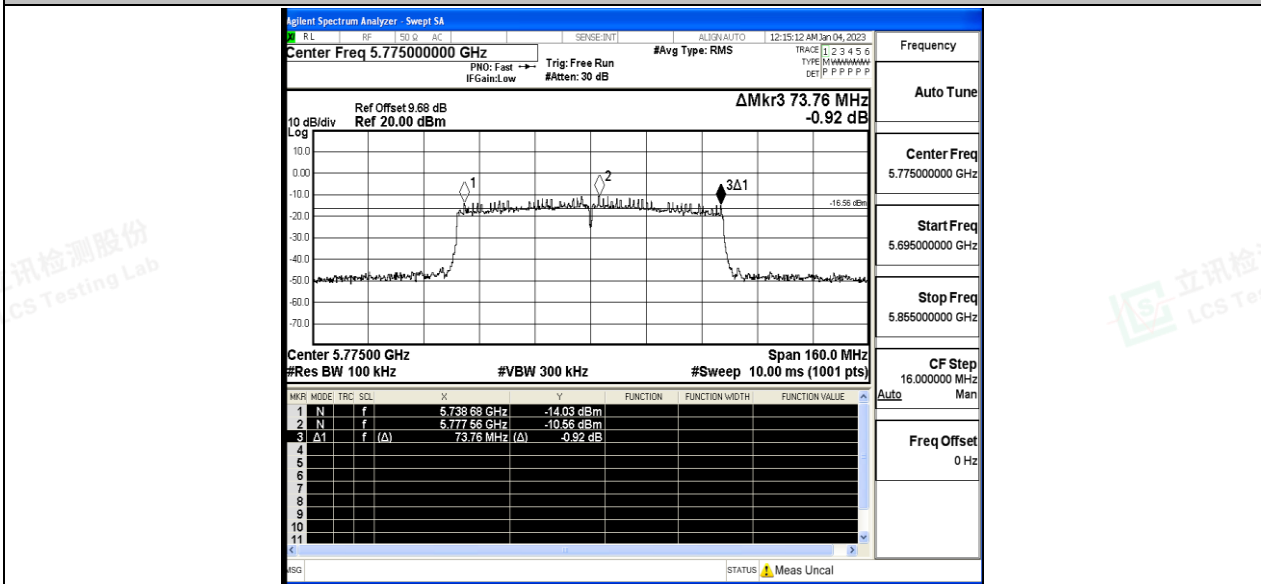
11AC40SISO\_Ant1\_5795







11AC80SISO\_Ant1\_5775





## B.2 Maximum conducted output power

### Test Result Channel Power

Test Mode	Antenna	Frequen cy[MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	---	5.49	96.53	0.15	5.64	≤30.00	PASS
		5785	---	5.77	97.20	0.12	5.89	≤30.00	PASS
		5825	---	3.94	96.50	0.15	4.09	≤30.00	PASS
11N20SI SO	Ant1	5745	---	5.40	96.30	0.16	5.56	≤30.00	PASS
		5785	---	4.61	97.01	0.13	4.74	≤30.00	PASS
		5825	---	3.80	96.30	0.16	3.96	≤30.00	PASS
11N40SI SO	Ant1	5755	---	4.97	92.75	0.33	5.30	≤30.00	PASS
		5795	---	4.11	94.20	0.26	4.37	≤30.00	PASS
11AC20S ISO	Ant1	5745	---	5.29	97.04	0.13	5.42	≤30.00	PASS
		5785	---	4.54	96.32	0.16	4.70	≤30.00	PASS
		5825	---	3.58	96.32	0.16	3.74	≤30.00	PASS
11AC40S ISO	Ant1	5755	---	4.78	94.20	0.26	5.04	≤30.00	PASS
		5795	---	4.10	94.20	0.26	4.36	≤30.00	PASS
11AC80S ISO	Ant1	5775	---	4.20	86.49	0.63	4.83	≤30.00	PASS

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



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### B.3 Maximum power spectral density

#### Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-7.5	≤30.00	PASS
		5785	-7.34	≤30.00	PASS
		5825	-9.04	≤30.00	PASS
11N20SISO	Ant1	5745	-7.81	≤30.00	PASS
		5785	-8.68	≤30.00	PASS
		5825	-9.44	≤30.00	PASS
11N40SISO	Ant1	5755	-11.1	≤30.00	PASS
		5795	-12	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.9	≤30.00	PASS
		5785	-8.67	≤30.00	PASS
		5825	-9.67	≤30.00	PASS
11AC40SISO	Ant1	5755	-11.32	≤30.00	PASS
		5795	-12.05	≤30.00	PASS
11AC80SISO	Ant1	5775	-14.58	≤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.



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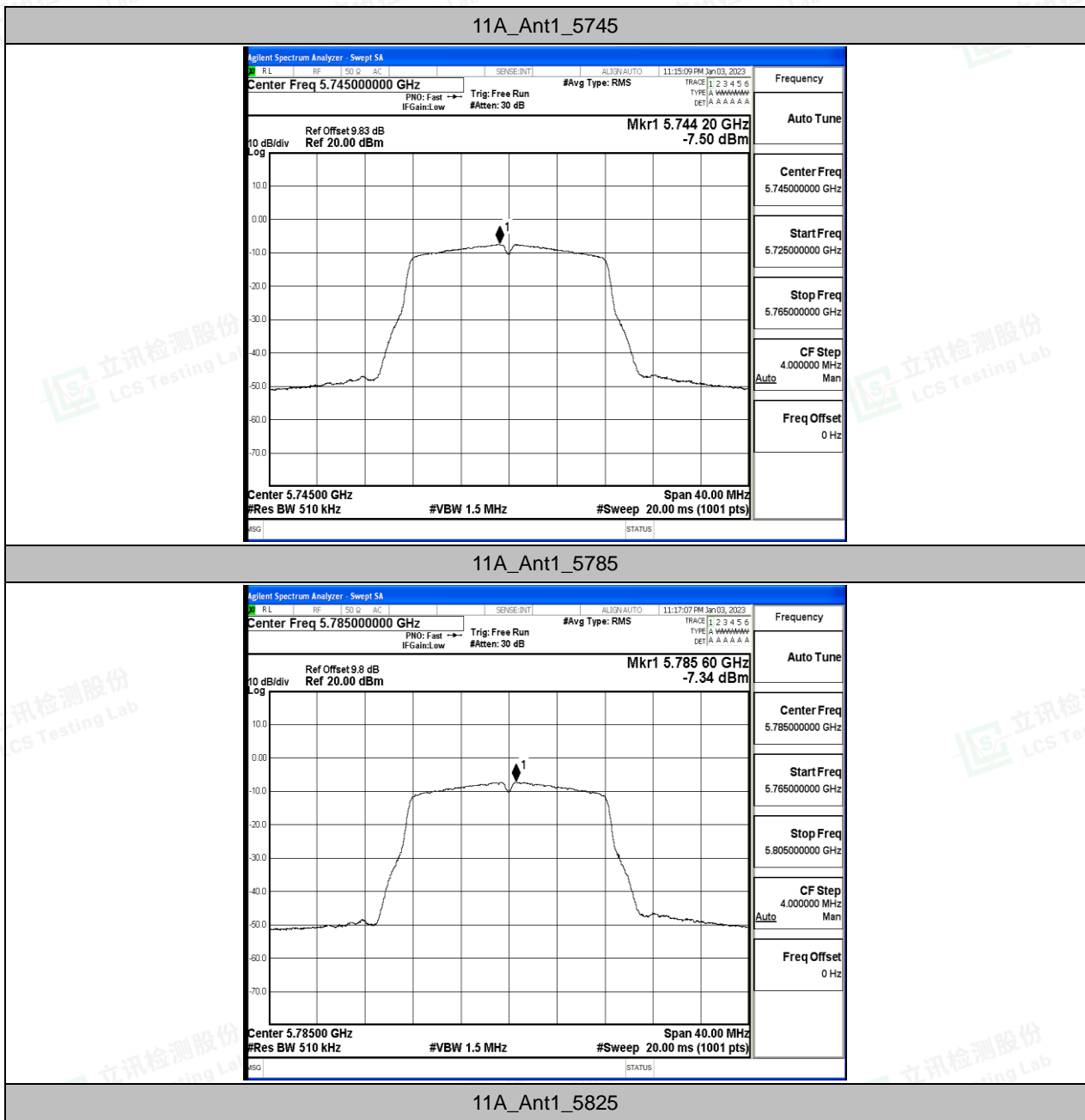
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

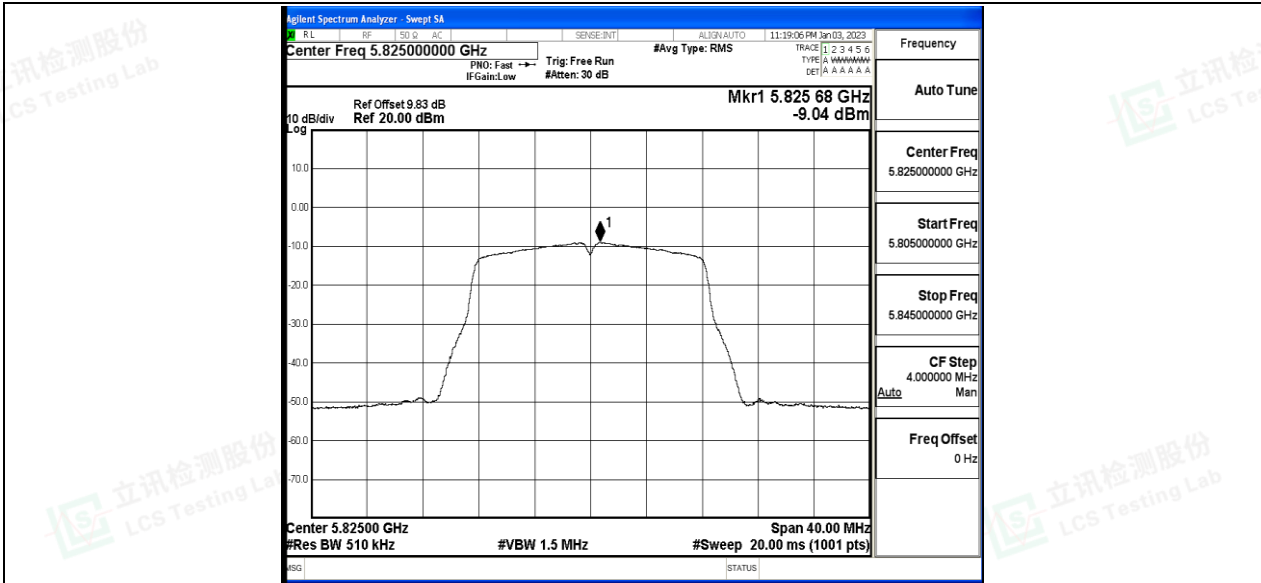
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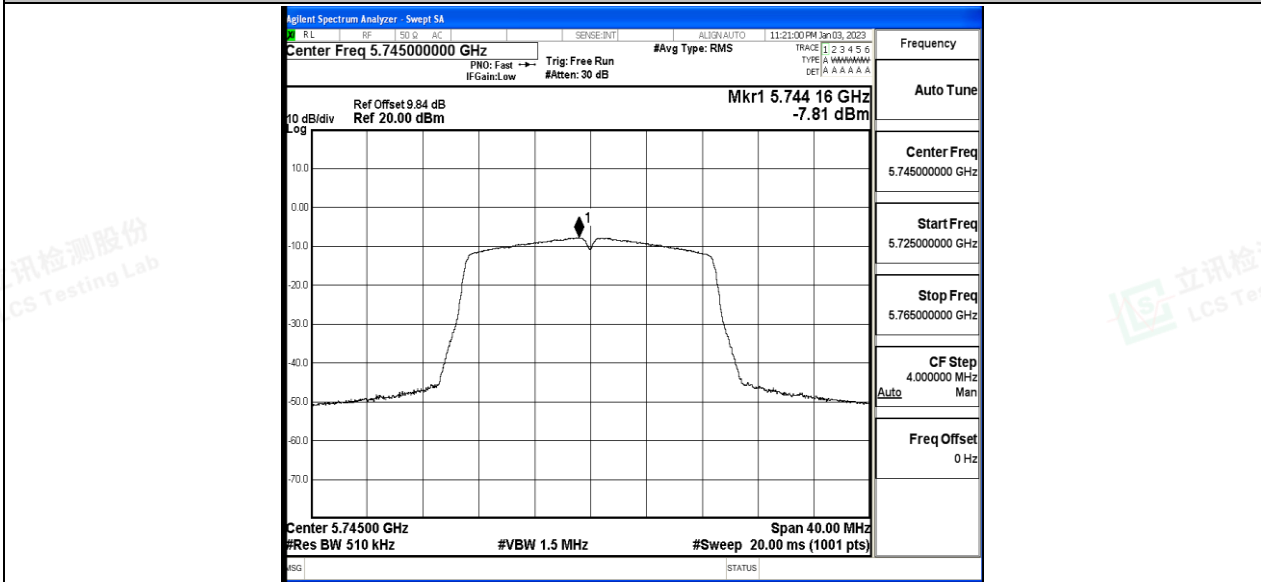


### Test Graphs



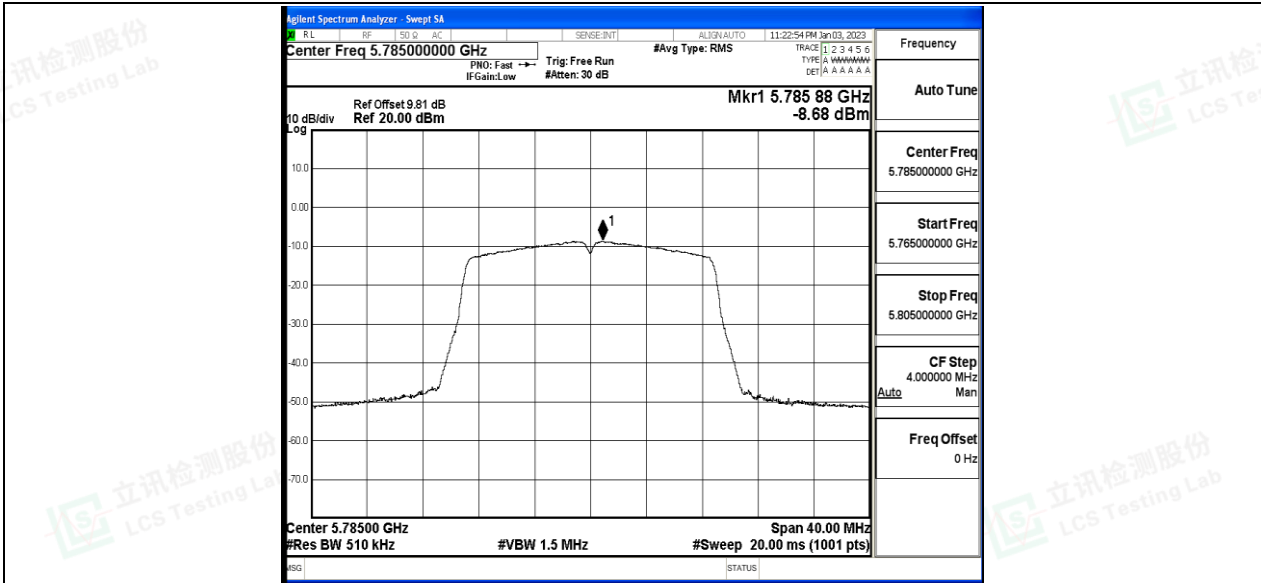


11N20SISO\_Ant1\_5745

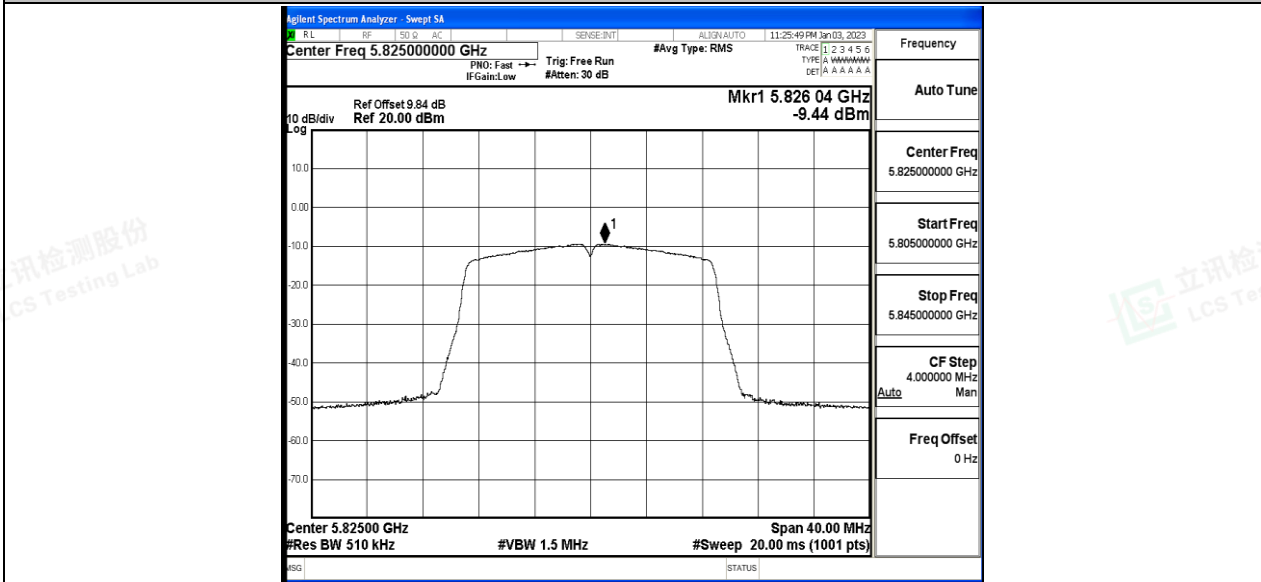


11N20SISO\_Ant1\_5785



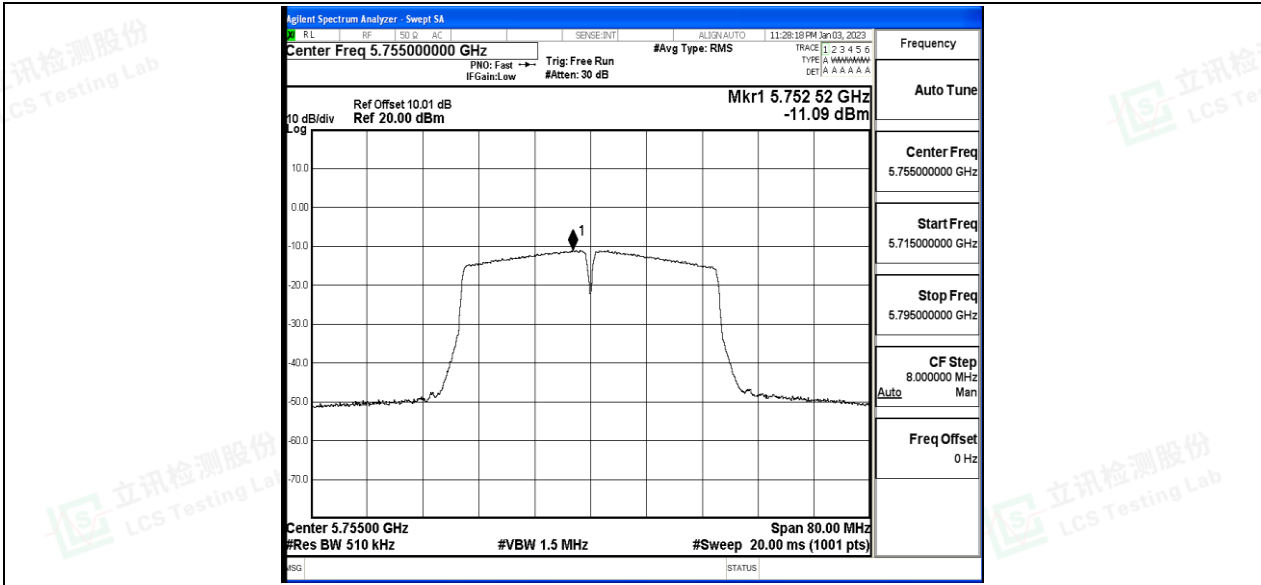


11N20SISO\_Ant1\_5825

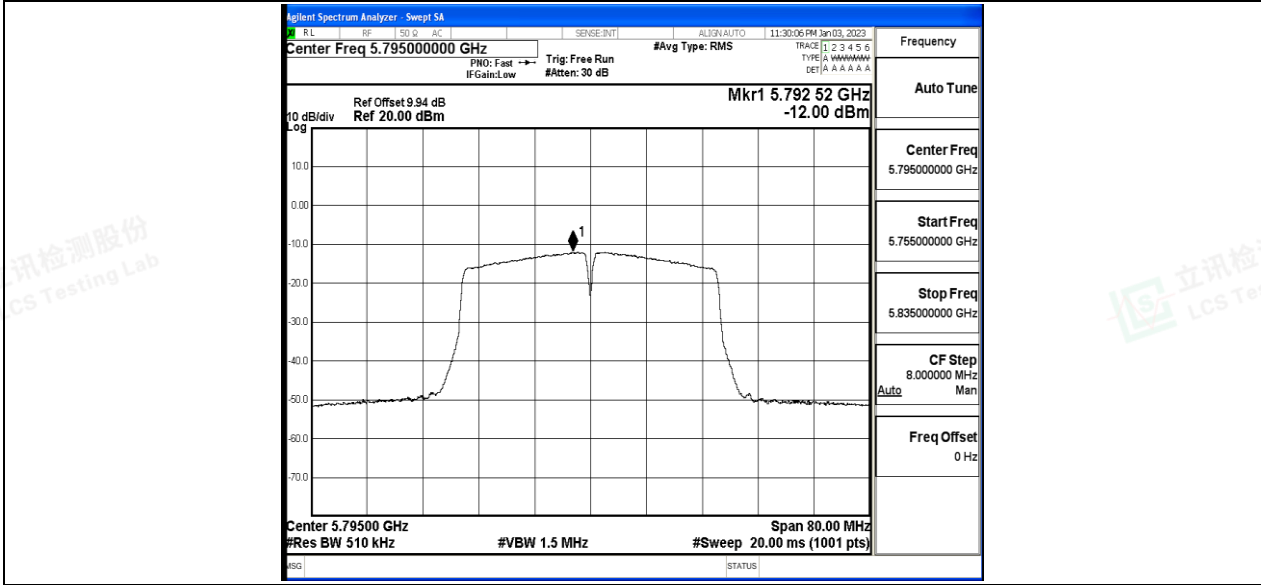


11N40SISO\_Ant1\_5755



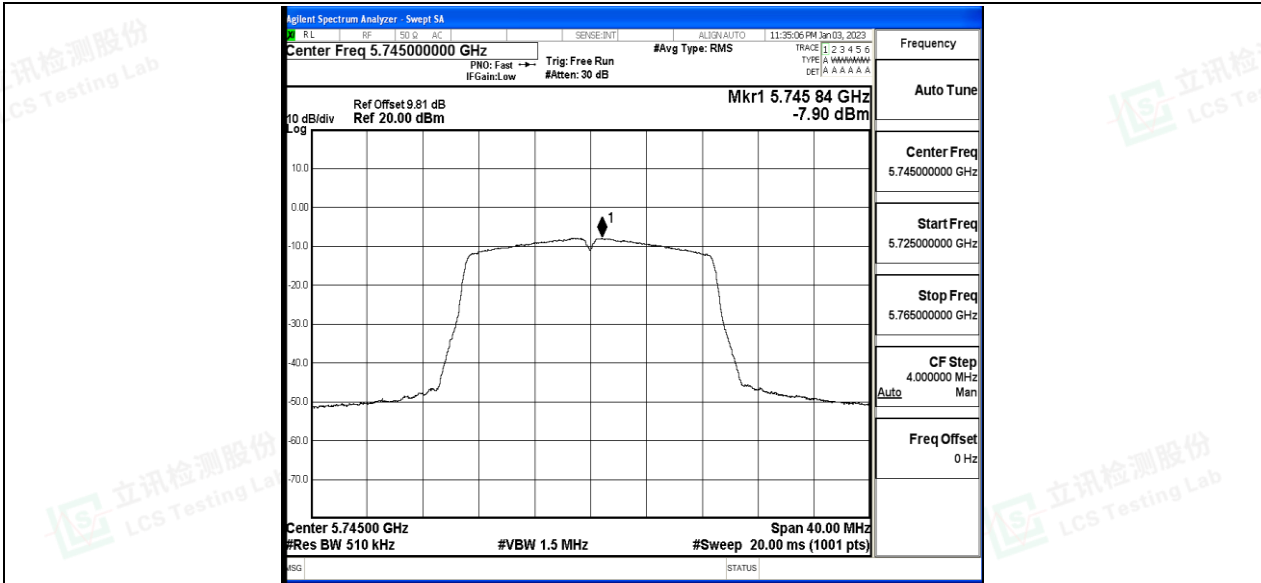


11N40SISO\_Ant1\_5795

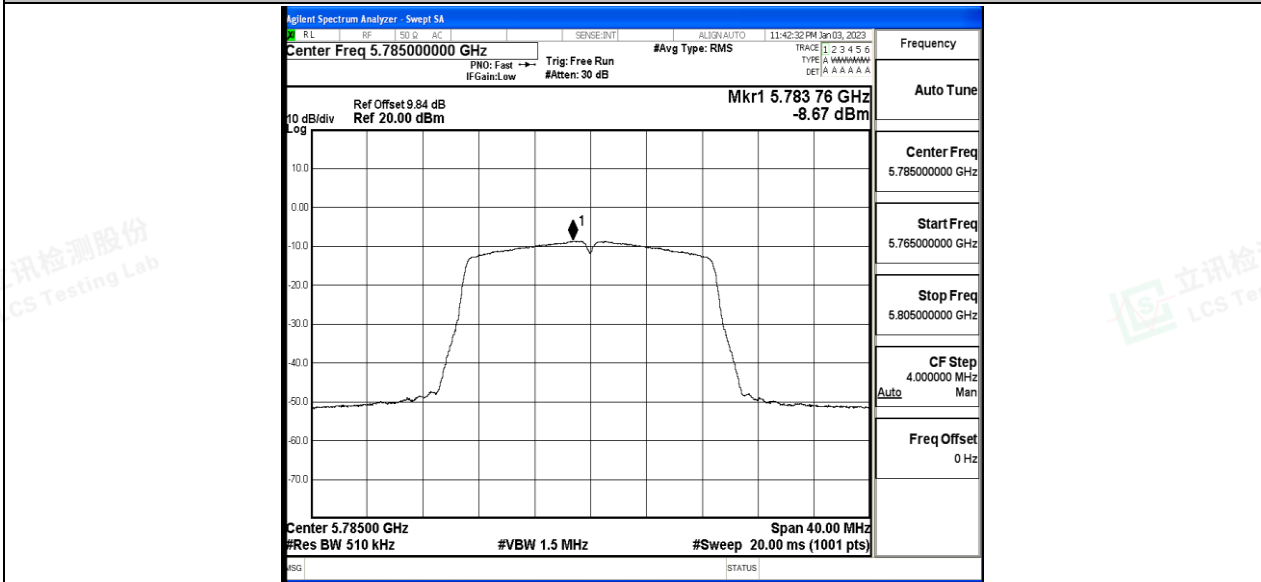


11AC20SISO\_Ant1\_5745





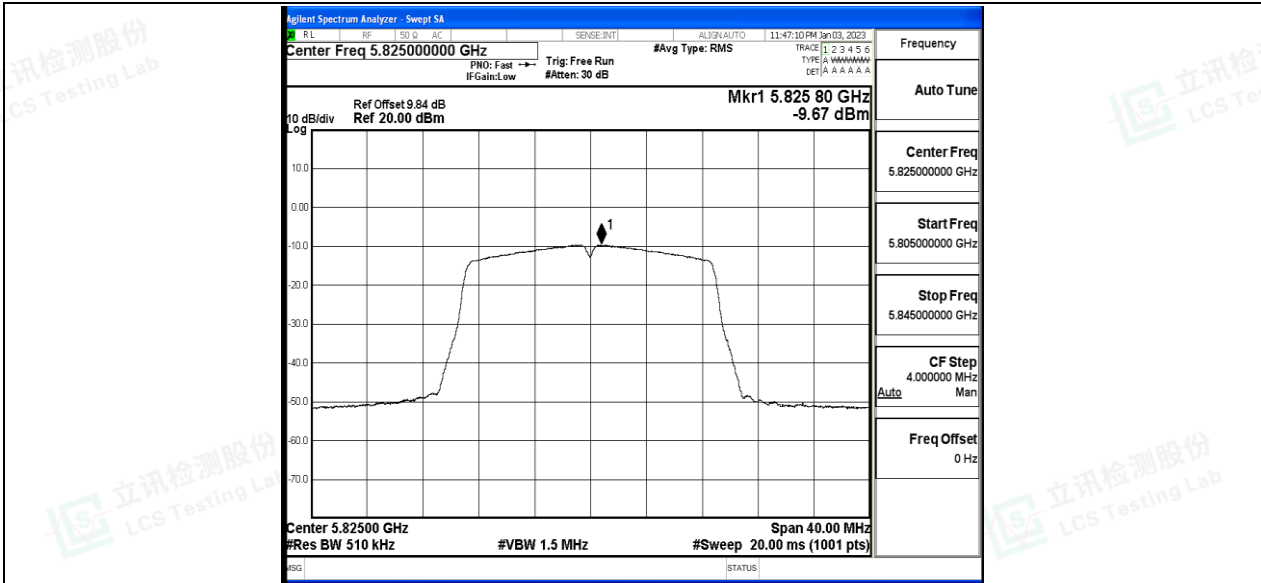
11AC20SISO\_Ant1\_5785



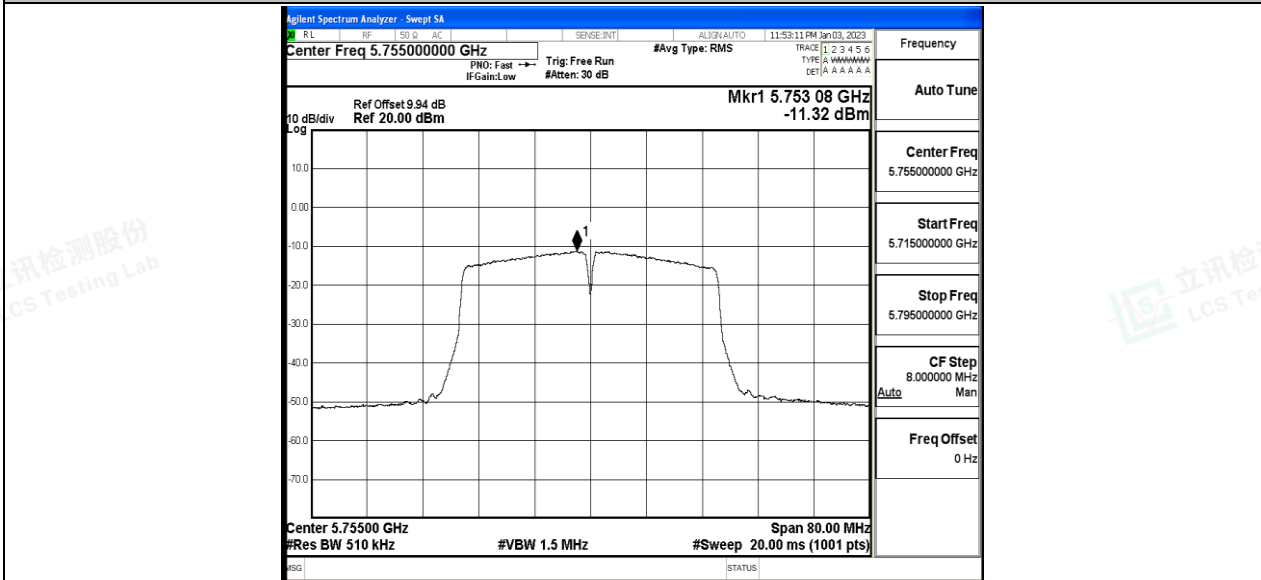
11AC20SISO\_Ant1\_5825





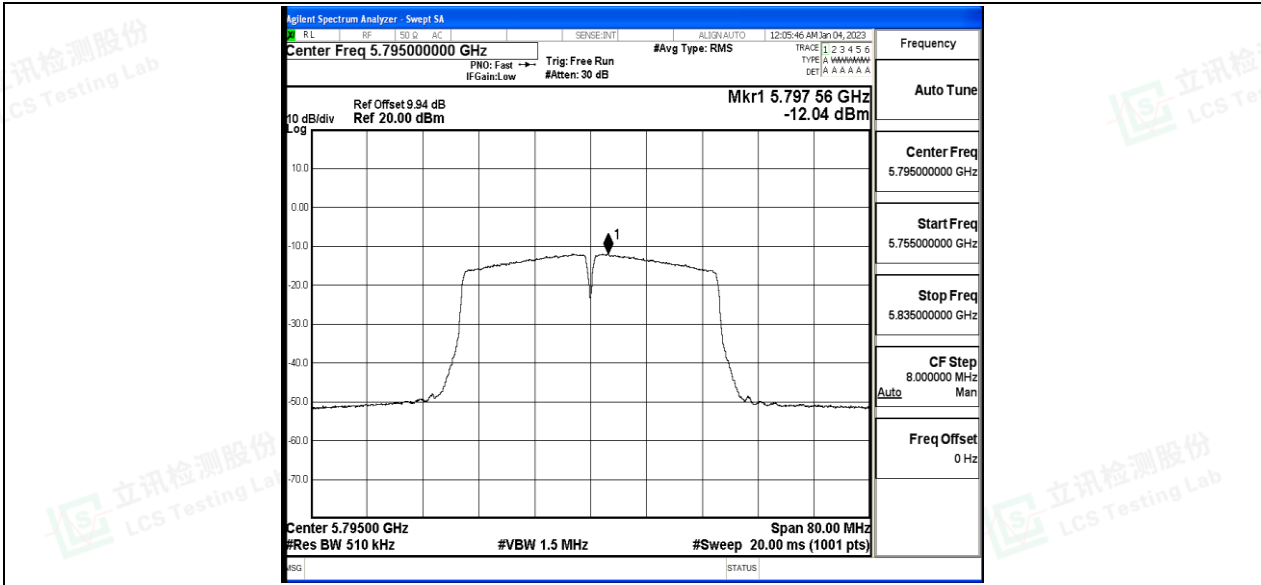


11AC40SISO\_Ant1\_5755

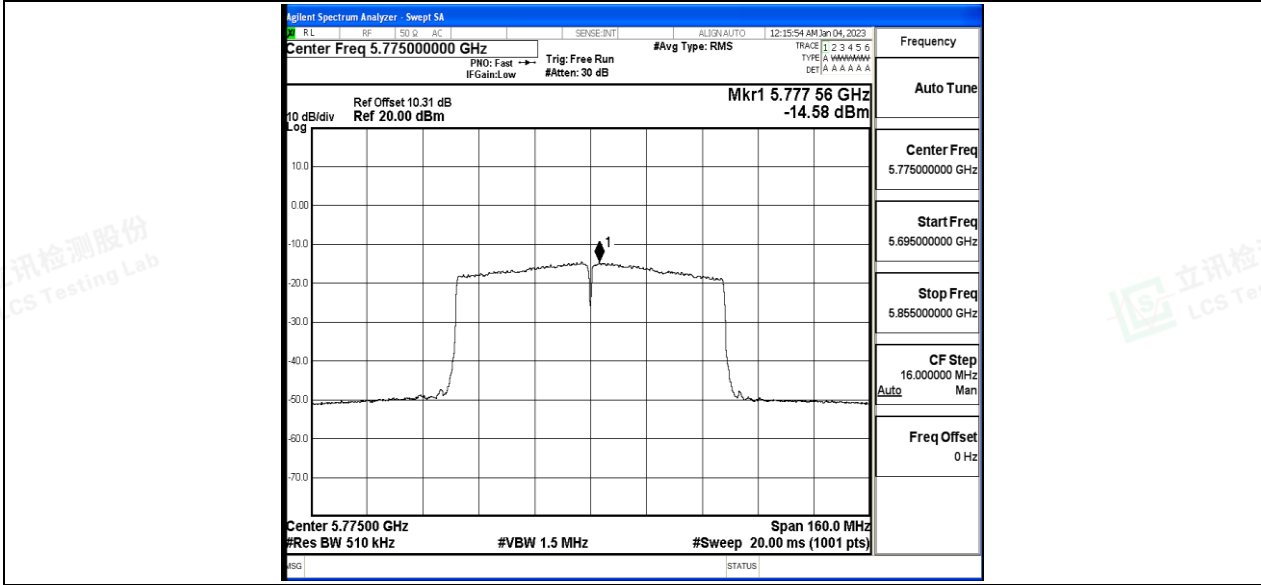


11AC40SISO\_Ant1\_5795





11AC80SISO\_Ant1\_5775





## B.4 Emissions in Restricted Bands

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-45.101	≤-27.00	---	---	PASS
				Peak	5700.000	-43.6	≤10.00	---	---	PASS
				Peak	5720.000	-41.22	≤15.60	---	---	PASS
				Peak	5725.000	-39.51	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-37.559	≤15.60	---	---	PASS
				Peak	5855.000	-44.87	≤27.00	---	---	PASS
				Peak	5875.000	-48.34	≤15.60	---	---	PASS
11N20SI SO	Ant1	Low	5745	Peak	5650.000	-43.182	≤-27.00	---	---	PASS
				Peak	5700.000	-42.84	≤10.00	---	---	PASS
				Peak	5720.000	-42.3	≤15.60	---	---	PASS
				Peak	5725.000	-40.25	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-41.63	≤15.60	---	---	PASS
				Peak	5855.000	-44.05	≤27.00	---	---	PASS
				Peak	5875.000	-45.23	≤15.60	---	---	PASS
11N40SI SO	Ant1	Low	5755	Peak	5650.000	-42.252	≤-27.00	---	---	PASS
				Peak	5700.000	-43.92	≤10.00	---	---	PASS
				Peak	5720.000	-45.04	≤15.60	---	---	PASS
				Peak	5725.000	-37.3	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-44.225	≤15.60	---	---	PASS
				Peak	5855.000	-42.16	≤27.00	---	---	PASS
				Peak	5875.000	-42.58	≤15.60	---	---	PASS
11AC20S ISO	Ant1	Low	5745	Peak	5650.000	-45.911	≤-27.00	---	---	PASS
				Peak	5700.000	-42.66	≤10.00	---	---	PASS
				Peak	5720.000	-41	≤15.60	---	---	PASS
				Peak	5725.000	-39.98	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-43.758	≤15.60	---	---	PASS
				Peak	5855.000	-45.19	≤27.00	---	---	PASS
				Peak	5875.000	-43.61	≤15.60	---	---	PASS
11AC40S ISO	Ant1	Low	5755	Peak	5650.000	-41.905	≤-27.00	---	---	PASS
				Peak	5700.000	-42.22	≤10.00	---	---	PASS
				Peak	5720.000	-42.42	≤15.60	---	---	PASS
				Peak	5725.000	-39.71	≤27.00	---	---	PASS



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		High	5795	Peak	5850.000	-44.783	≤15.60	---	---	PASS
				Peak	5855.000	-39.95	≤27.00	---	---	PASS
				Peak	5875.000	-41.1	≤15.60	---	---	PASS
				Peak	5925.000	-42.82	≤10.00	---	---	PASS
11AC80S ISO	Ant1	Low	5775	Peak	5650.000	-42.444	≤-27.00	---	---	PASS
				Peak	5700.000	-40.76	≤10.00	---	---	PASS
				Peak	5720.000	-39.7	≤15.60	---	---	PASS
				Peak	5725.000	-40.53	≤27.00	---	---	PASS
		High	5775	Peak	5850.000	-39.724	≤15.60	---	---	PASS
				Peak	5855.000	-42.16	≤27.00	---	---	PASS
				Peak	5875.000	-42.42	≤15.60	---	---	PASS
				Peak	5925.000	-41.99	≤10.00	---	---	PASS

Note:

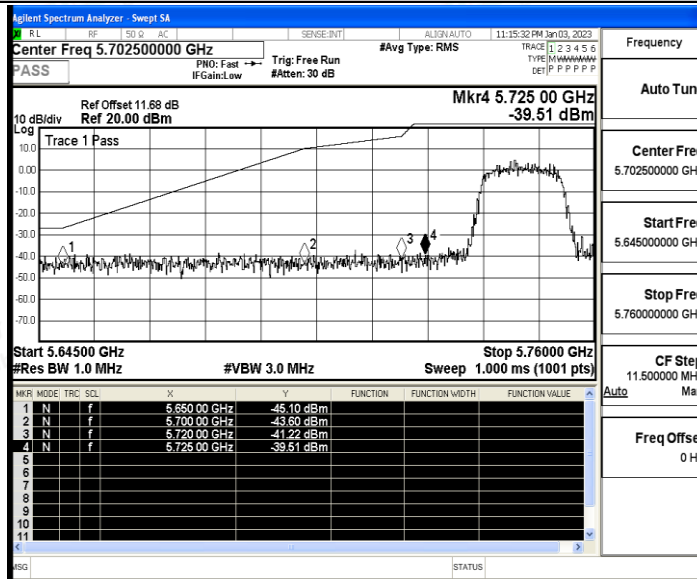
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



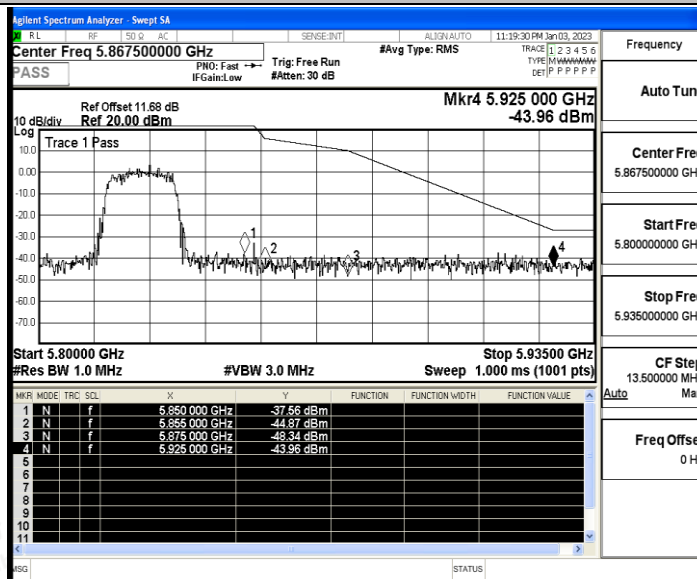


### Test Graphs

#### 11A\_Ant1\_Low\_5745\_Peak

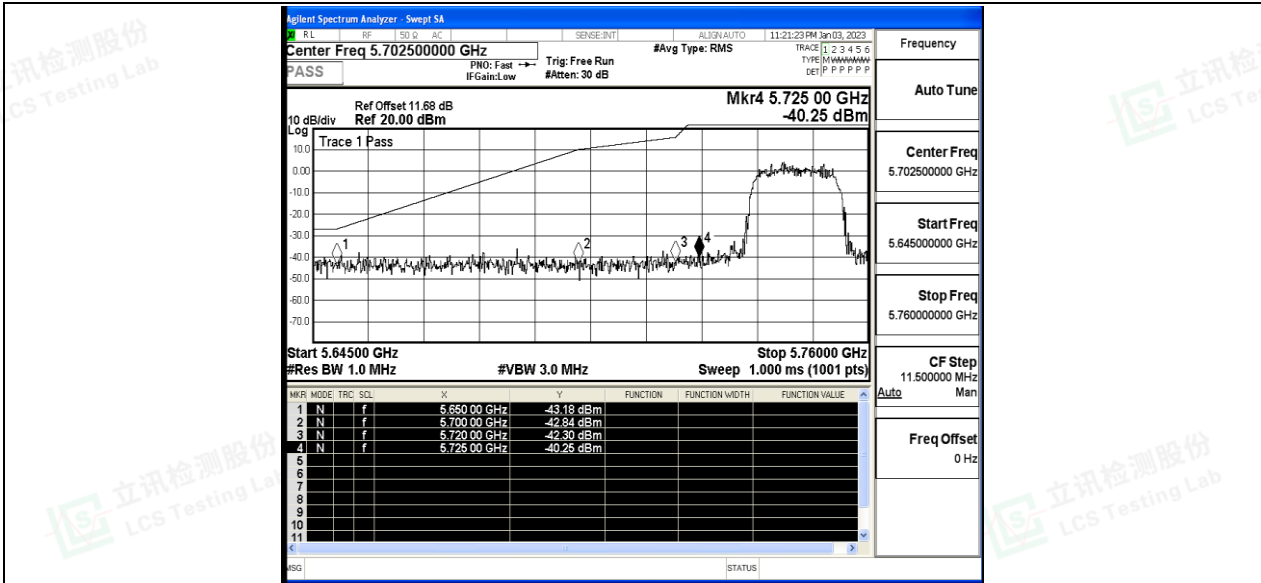


#### 11A\_Ant1\_High\_5825\_Peak

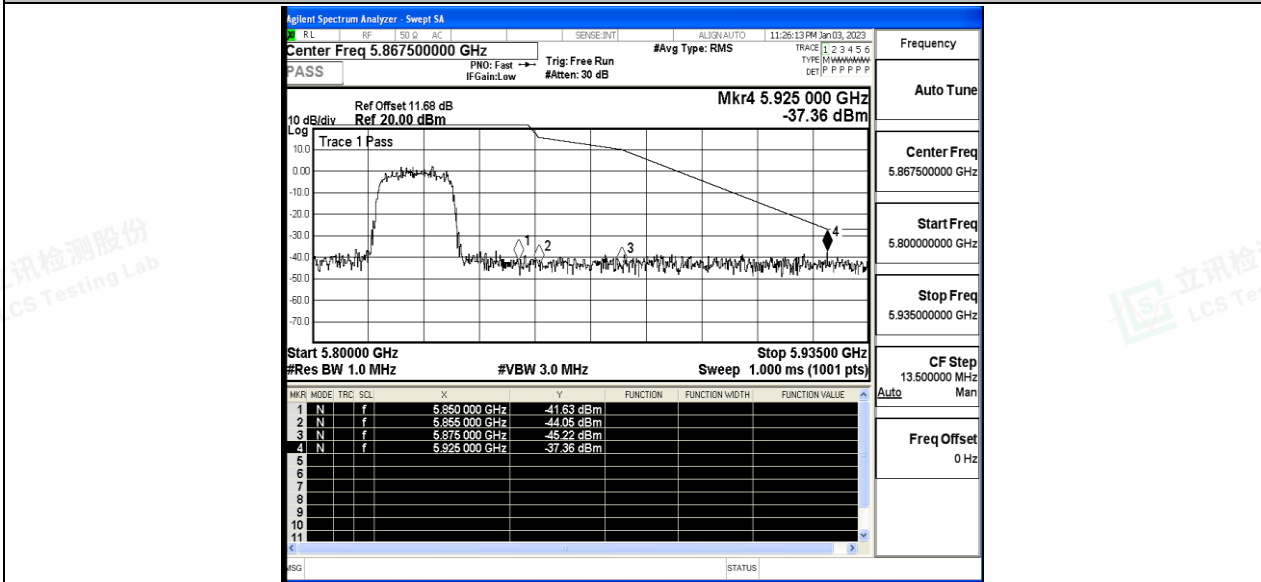


#### 11N20SISO\_Ant1\_Low\_5745\_Peak



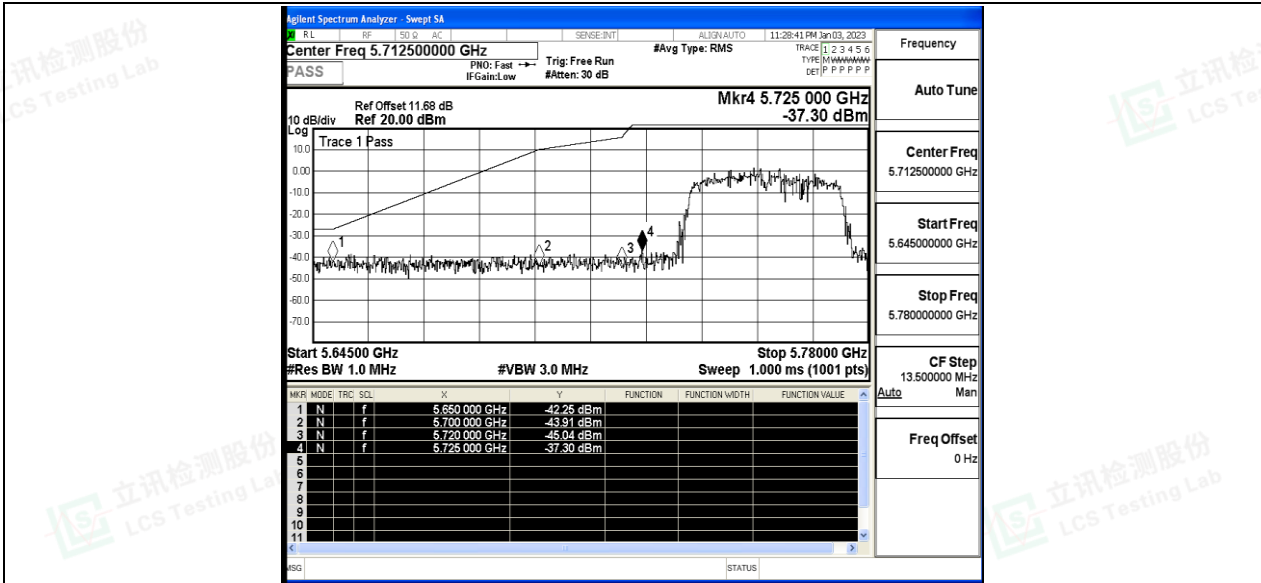


11N20SISO\_Ant1\_High\_5825\_Peak

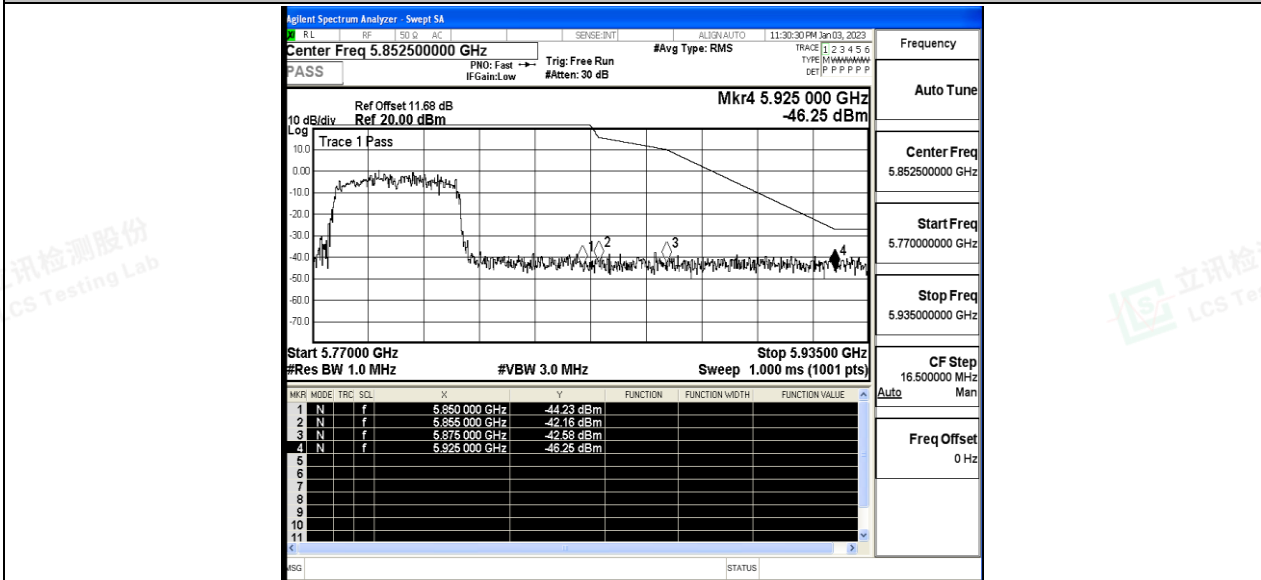


11N40SISO\_Ant1\_Low\_5755\_Peak



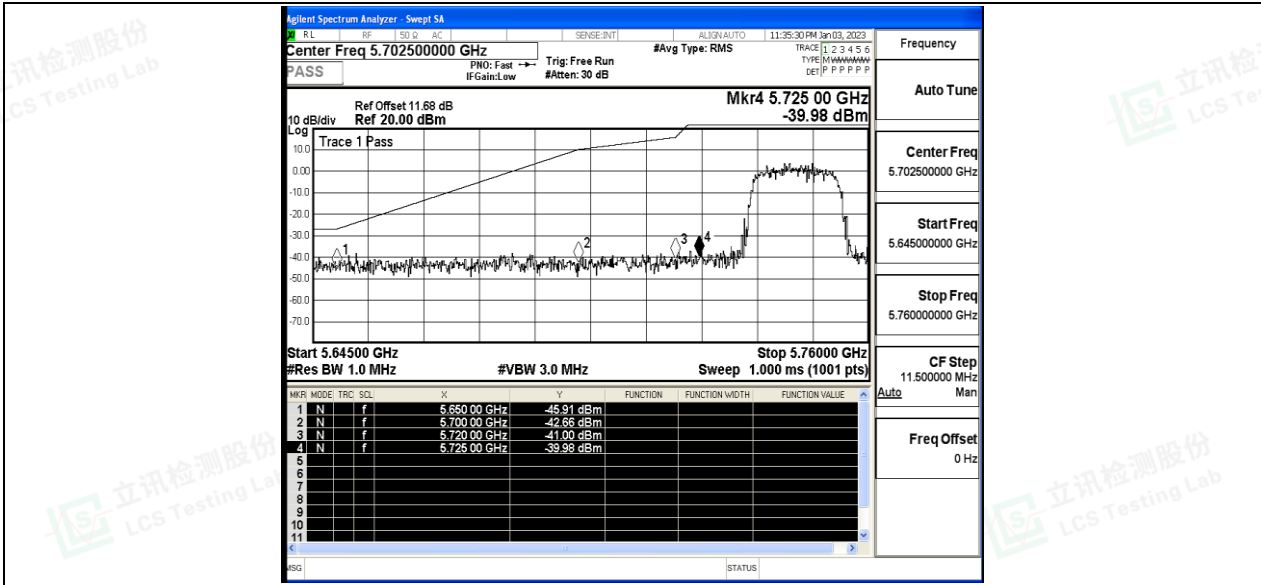


11N40SISO\_Ant1\_High\_5795\_Peak

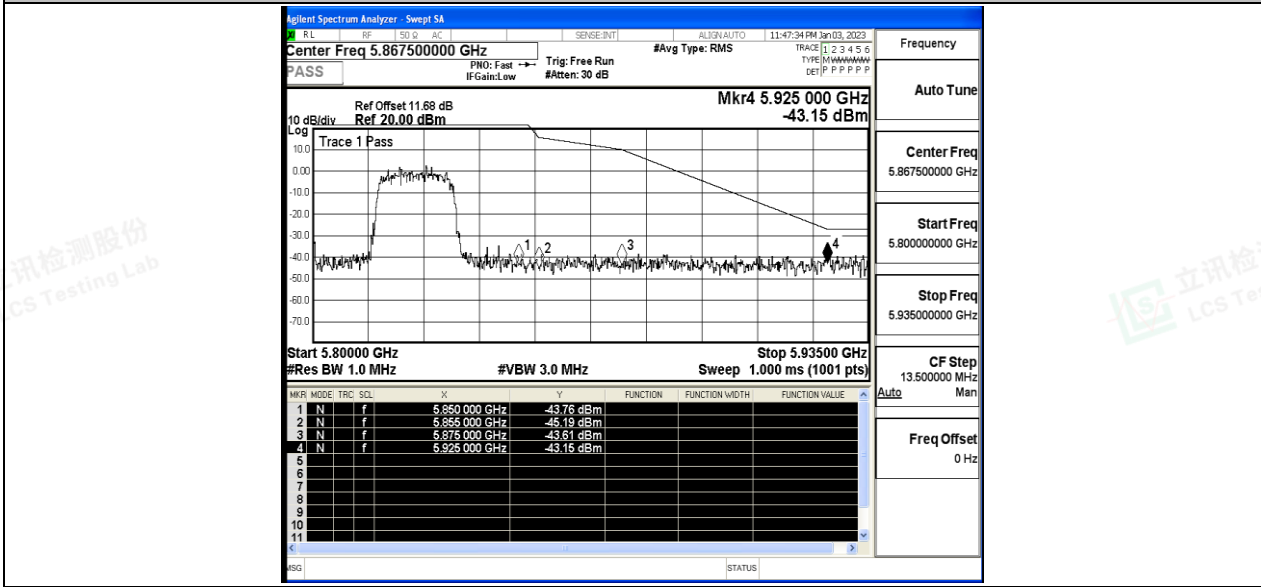


11A20SISO\_Ant1\_Low\_5745\_Peak





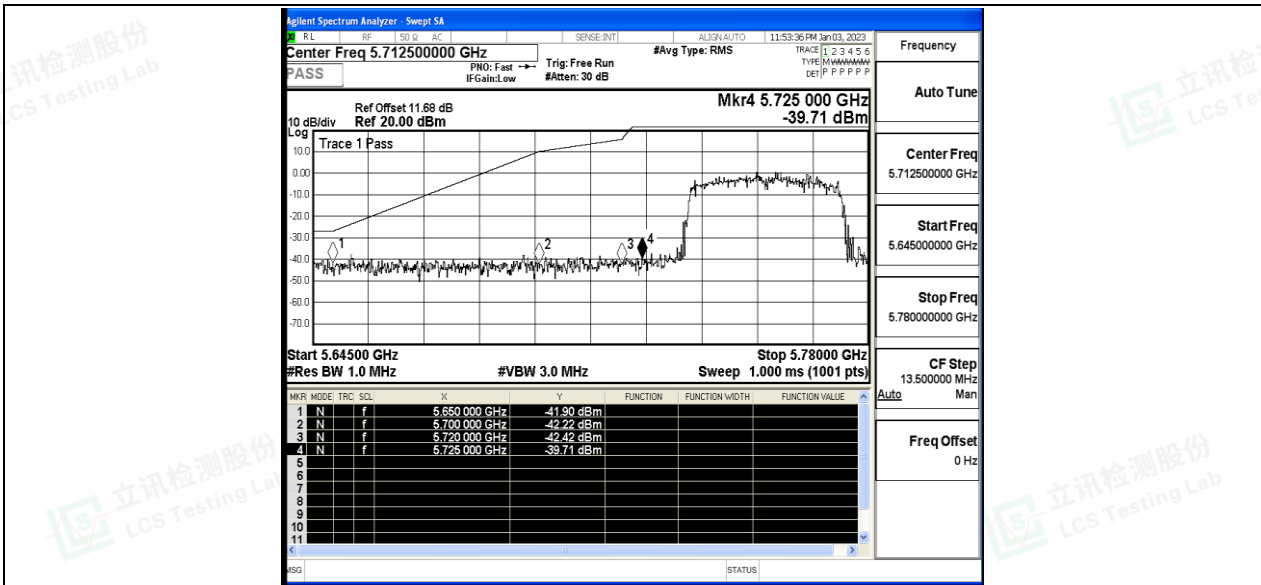
11AC20SISO\_Ant1\_High\_5825\_Peak



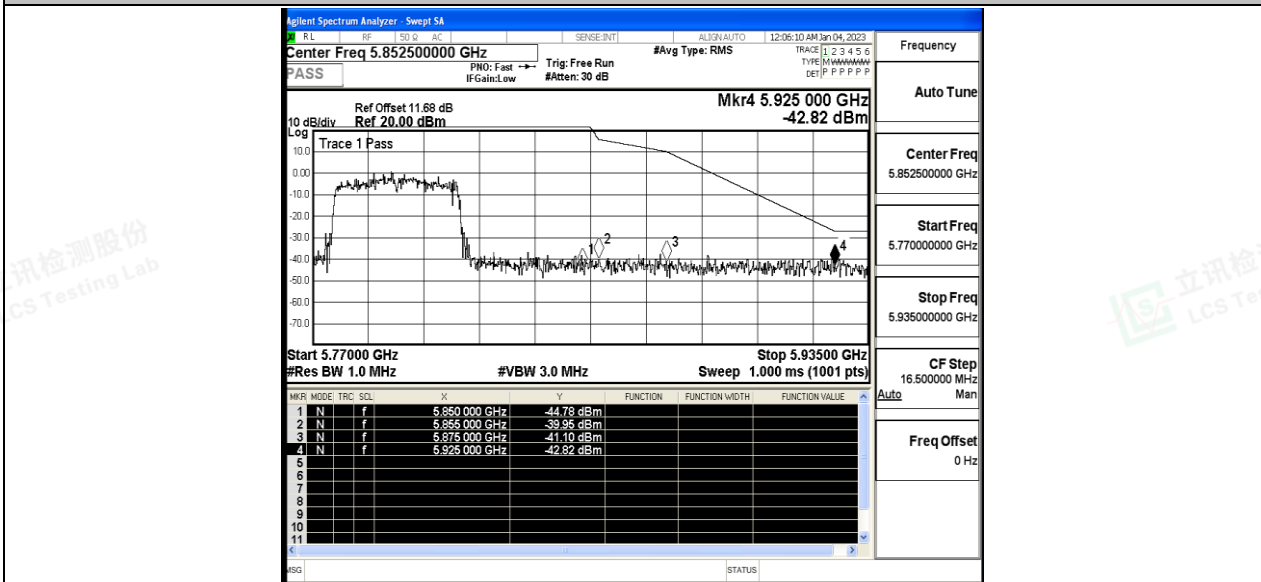
11AC40SISO\_Ant1\_Low\_5755\_Peak





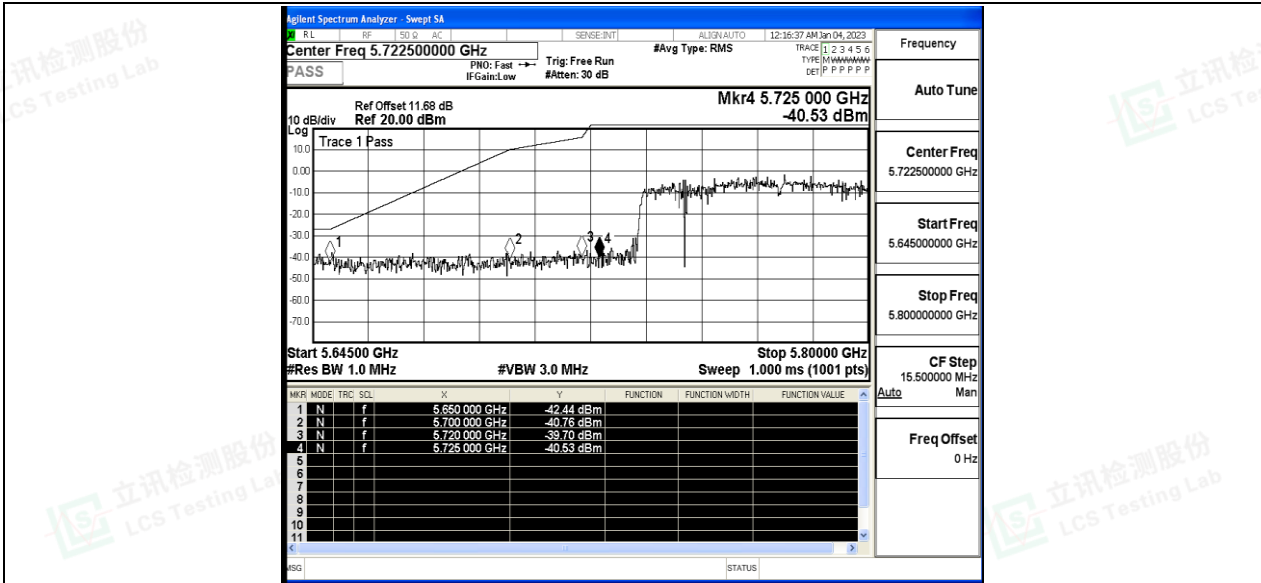


11AC40SISO\_Ant1\_High\_5795\_Peak

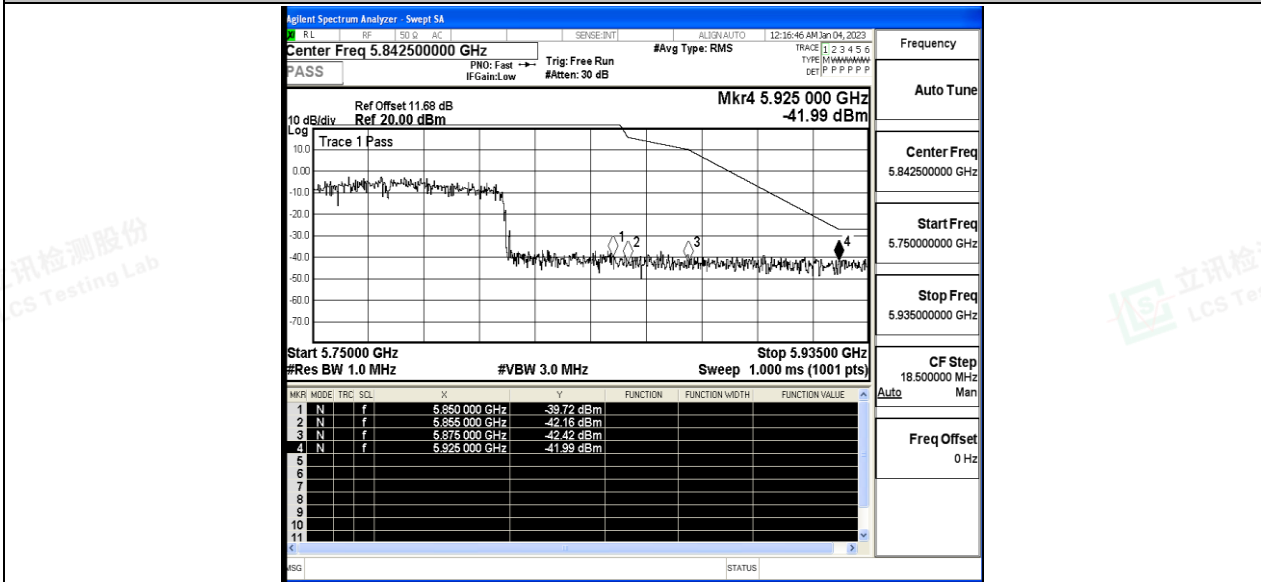


11AC80SISO\_Ant1\_Low\_5775\_Peak





11AC80SISO\_Ant1\_High\_5775\_Peak





## B.5 Frequency Stability

### Test Result

Voltage								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SI SO	Ant1	5745	NV	NT	-40000.00	-6.962576	20	PASS
			LV	NT	-80000.00	-13.925152	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	-20000.00	-3.433476	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11AC40SI SO	Ant1	5755	NV	NT	-40000.00	-6.950478	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
11AC80SI SO	Ant1	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SI SO	Ant1	5745	NV	-30	-40000.00	-6.962576	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-40000.00	-6.962576	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	-60000.00	-10.443864	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
		5785	NV	50	-40000.00	-6.962576	20	PASS
			NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-40000.00	-6.914434	20	PASS
			NV	-10	-40000.00	-6.914434	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS



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			NV	10	-40000.00	-6.914434	20	PASS
			NV	20	-40000.00	-6.914434	20	PASS
			NV	30	-40000.00	-6.914434	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5825	NV	-30	-40000.00	-6.866953	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	-40000.00	-6.866953	20	PASS
			NV	0	-40000.00	-6.866953	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	-40000.00	-6.866953	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	-40000.00	-6.866953	20	PASS
11AC40SI SO	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.950478	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5795	NV	50	-40000.00	-6.950478	20	PASS
			NV	-30	-40000.00	-6.902502	20	PASS
			NV	-20	-40000.00	-6.902502	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-80000.00	-13.805004	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	-40000.00	-6.902502	20	PASS
			NV	50	-40000.00	-6.902502	20	PASS
11AC80SI SO	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-80000.00	-13.852814	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-80000.00	-13.852814	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-80000.00	-13.852814	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-80000.00	-13.852814	20	PASS
			NV	50	0.00	0.000000	20	PASS





### B.6 Duty Cycle

#### Test Result

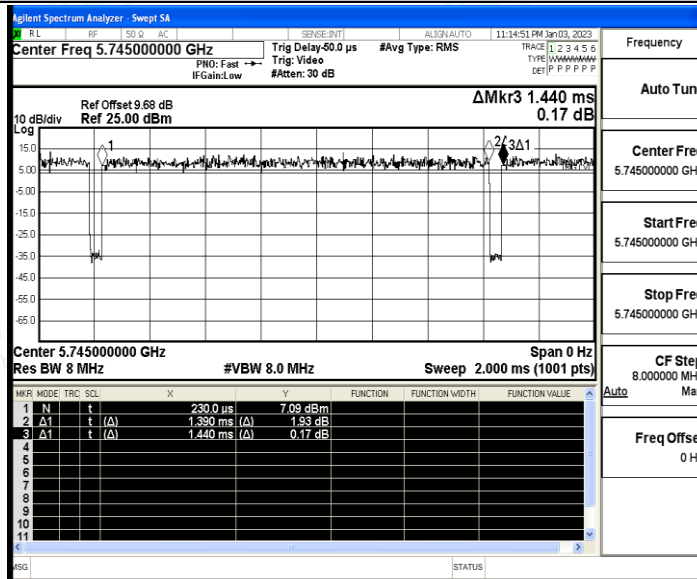
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11A	Ant1	5745	1.39	1.44	96.53	0.15
		5785	1.39	1.43	97.20	0.12
		5825	1.38	1.43	96.50	0.15
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.16
		5785	1.30	1.34	97.01	0.13
		5825	1.30	1.35	96.30	0.16
11N40SISO	Ant1	5755	0.64	0.69	92.75	0.33
		5795	0.65	0.69	94.20	0.26
11AC20SISO	Ant1	5745	1.31	1.35	97.04	0.13
		5785	1.31	1.36	96.32	0.16
		5825	1.31	1.36	96.32	0.16
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26
		5795	0.65	0.69	94.20	0.26
11AC80SISO	Ant1	5775	0.32	0.37	86.49	0.63



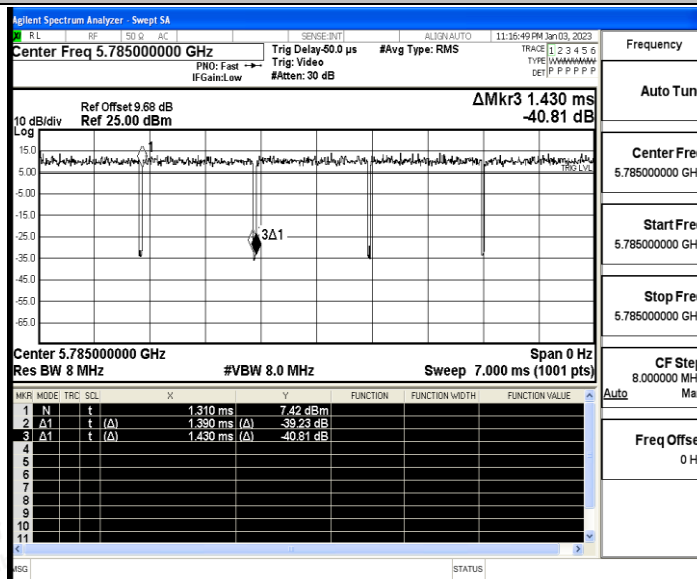


### Test Graphs

11A\_Ant1\_5745

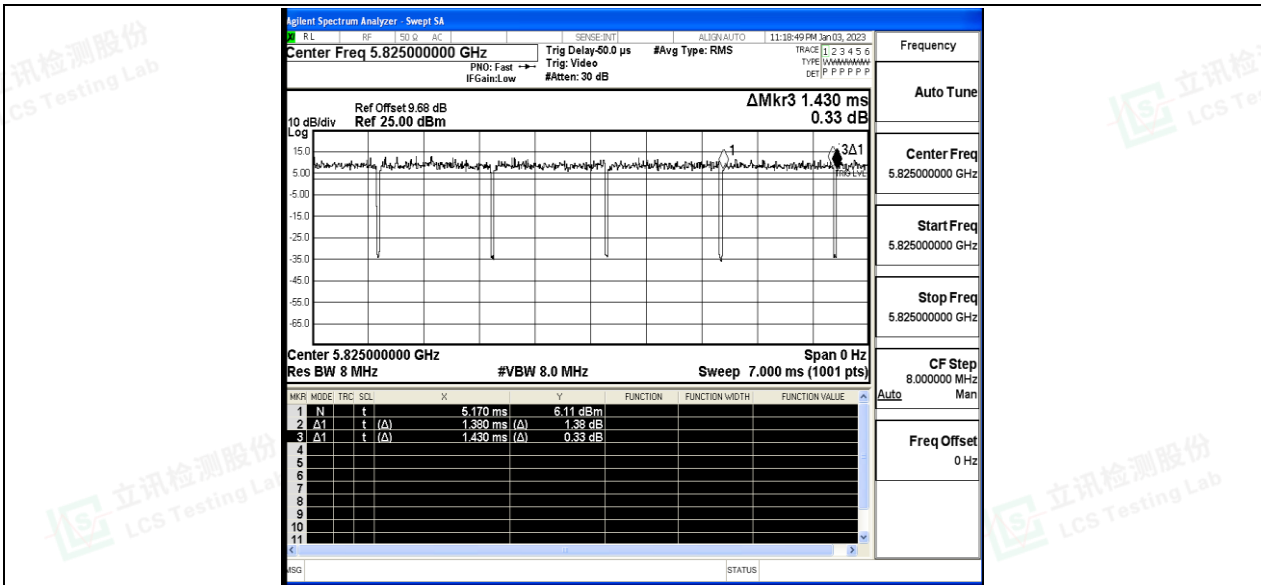


11A\_Ant1\_5785

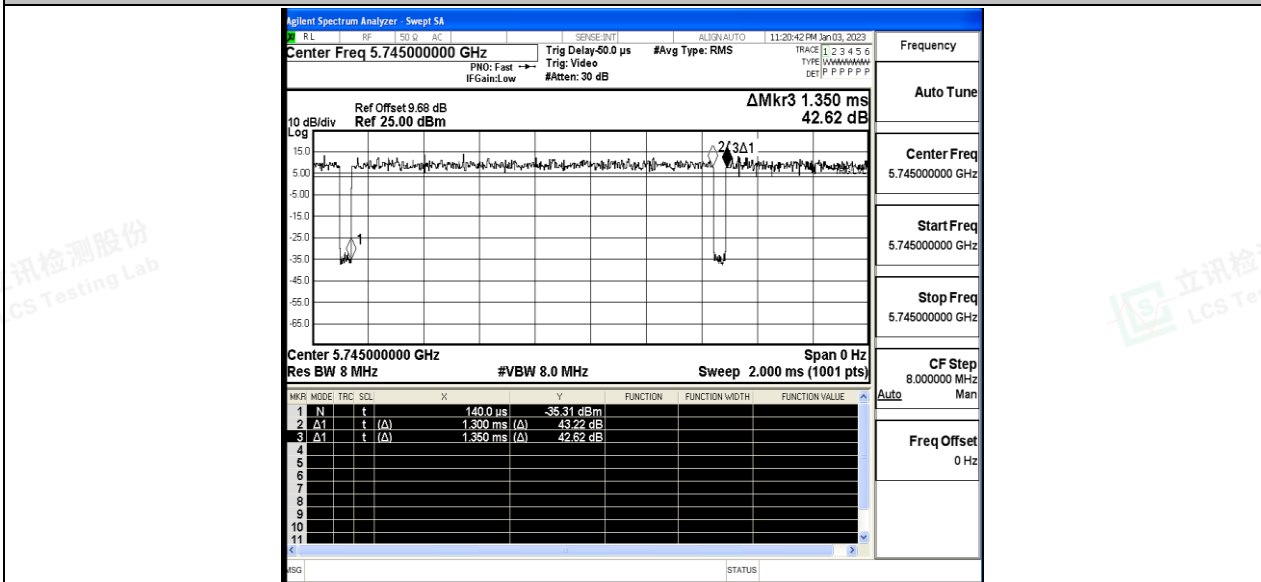


11A\_Ant1\_5825



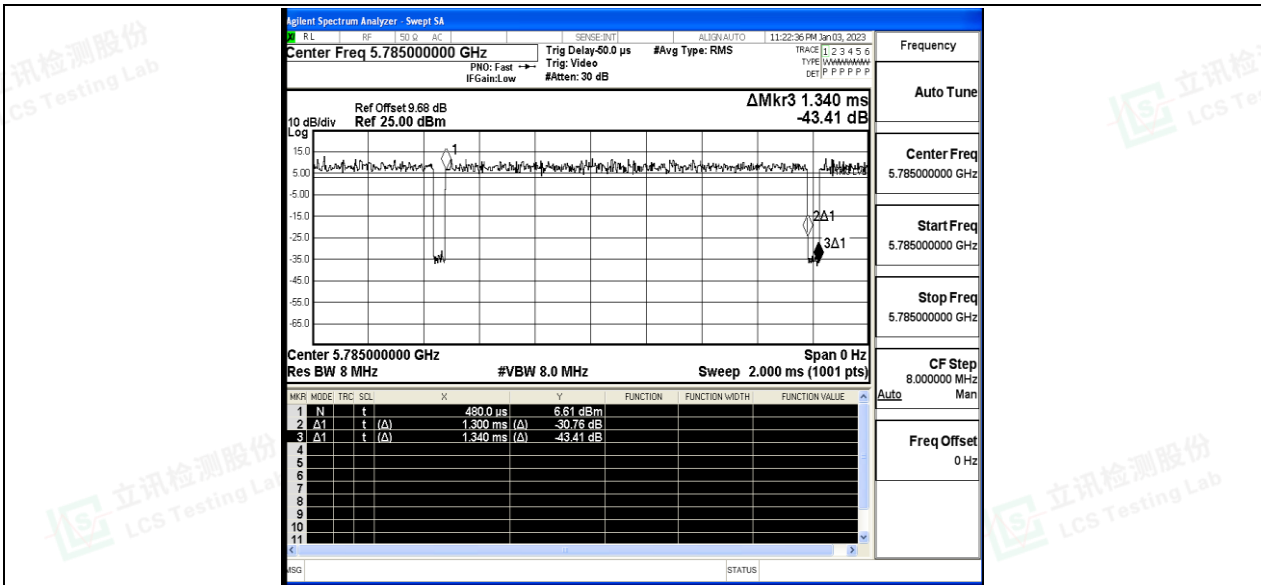


11N20SISO\_Ant1\_5745

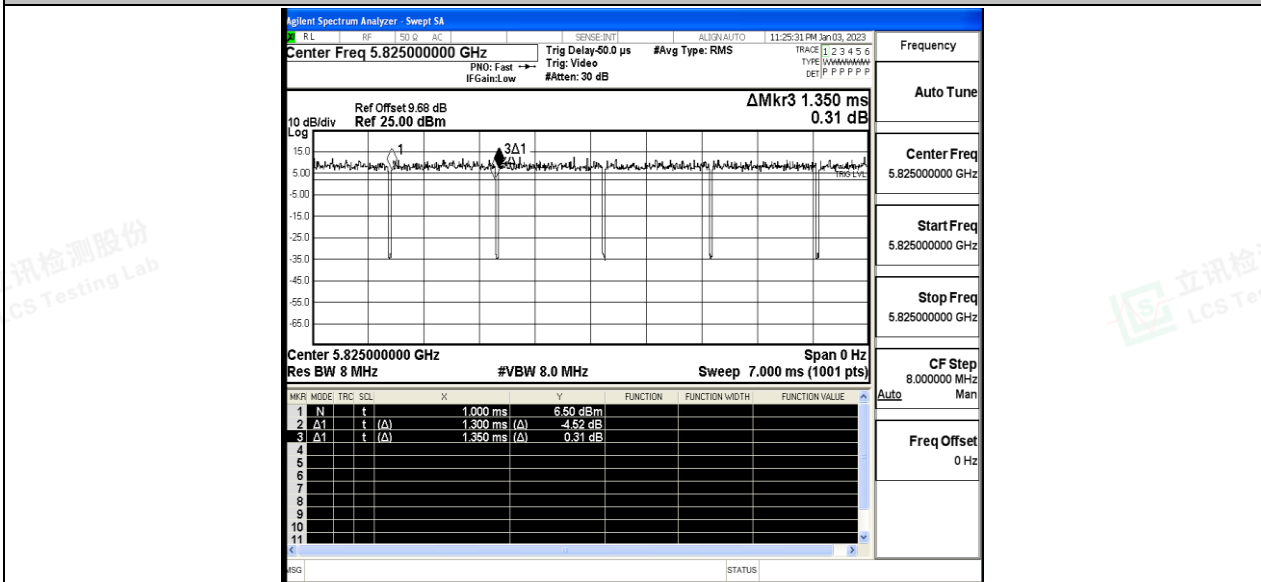


11N20SISO\_Ant1\_5785





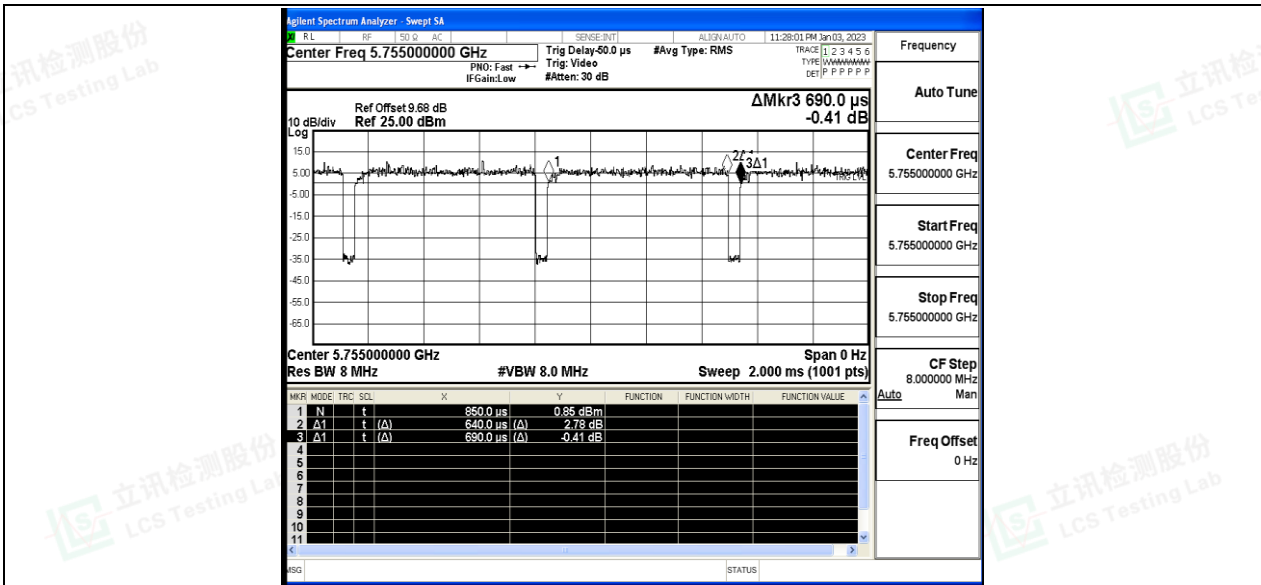
11N20SISO\_Ant1\_5825



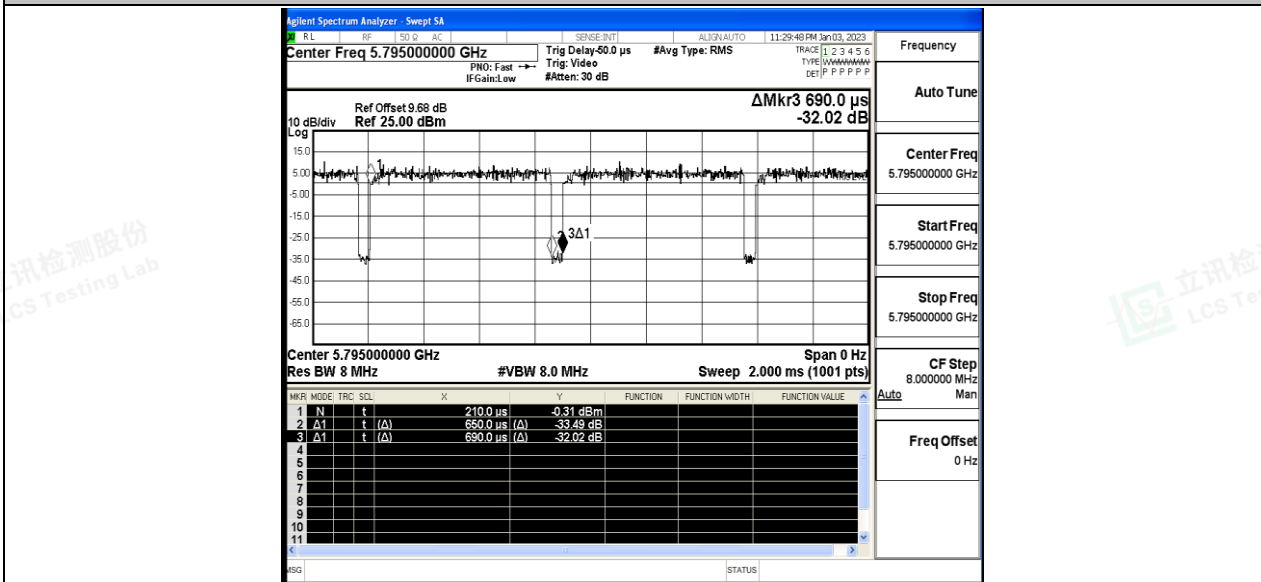
11N40SISO\_Ant1\_5755





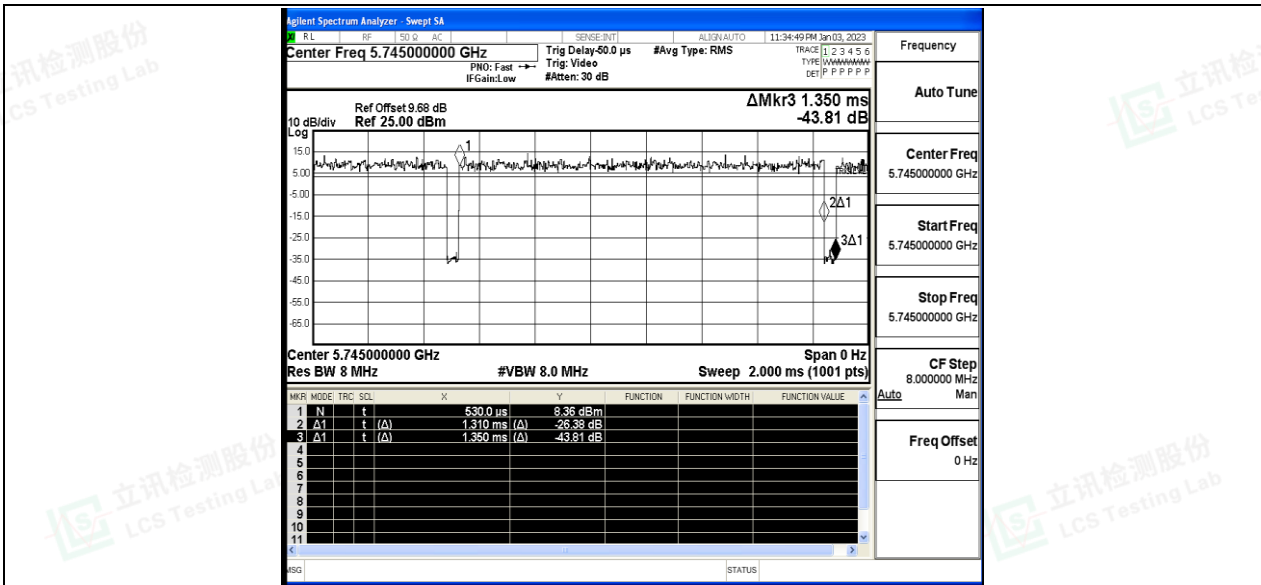


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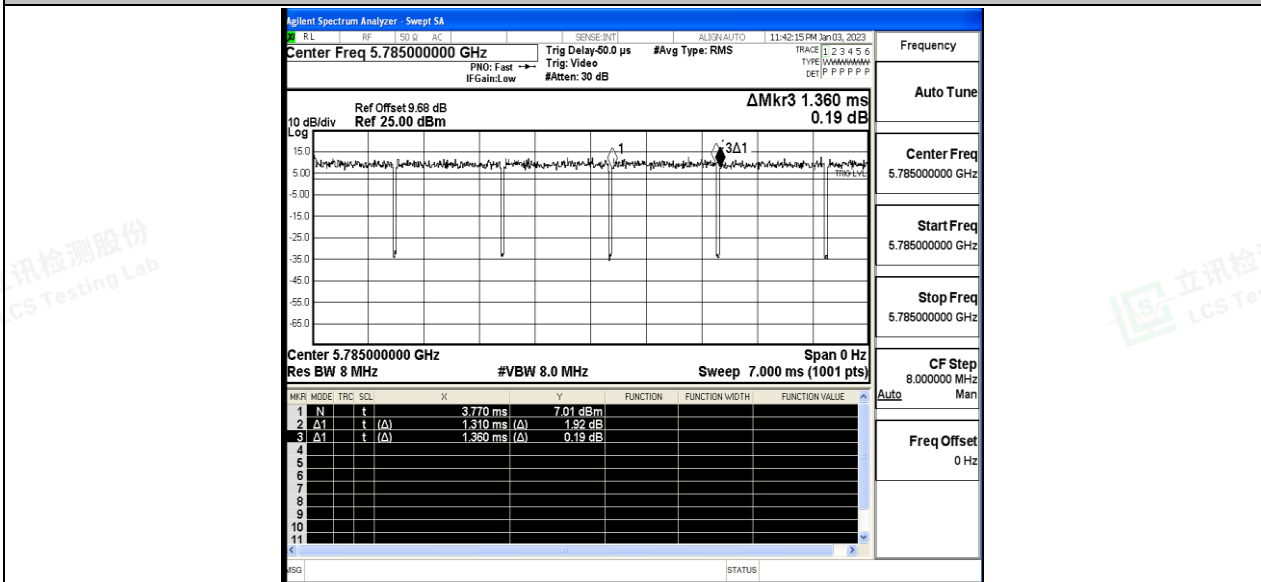


11AC20SISO\_Ant1\_5745



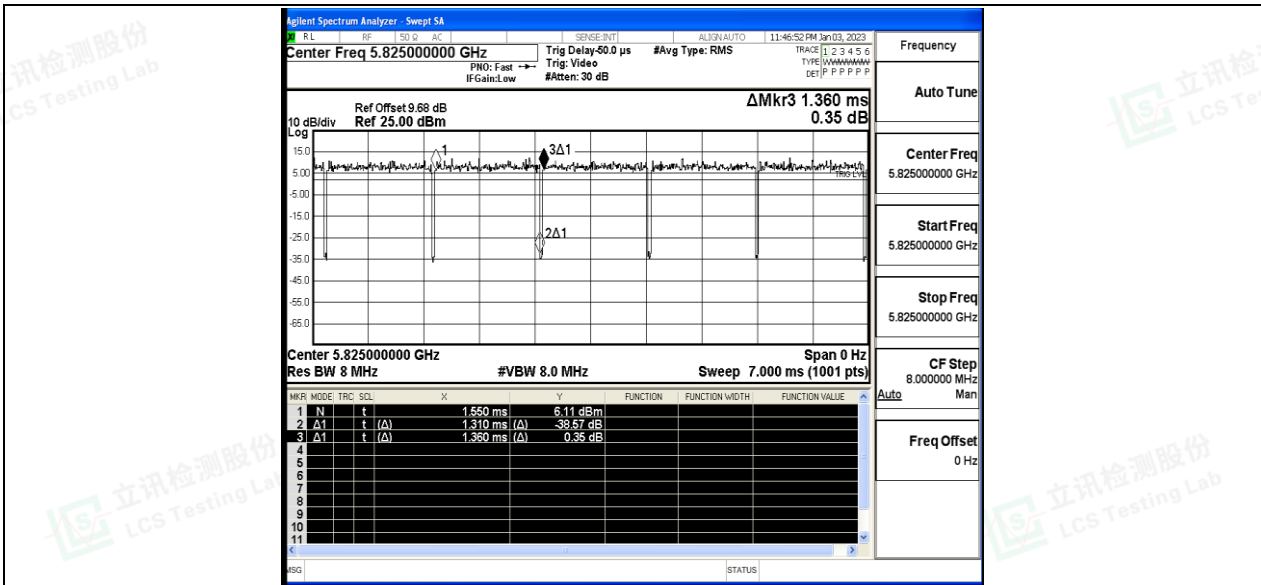


11AC20SISO\_Ant1\_5785

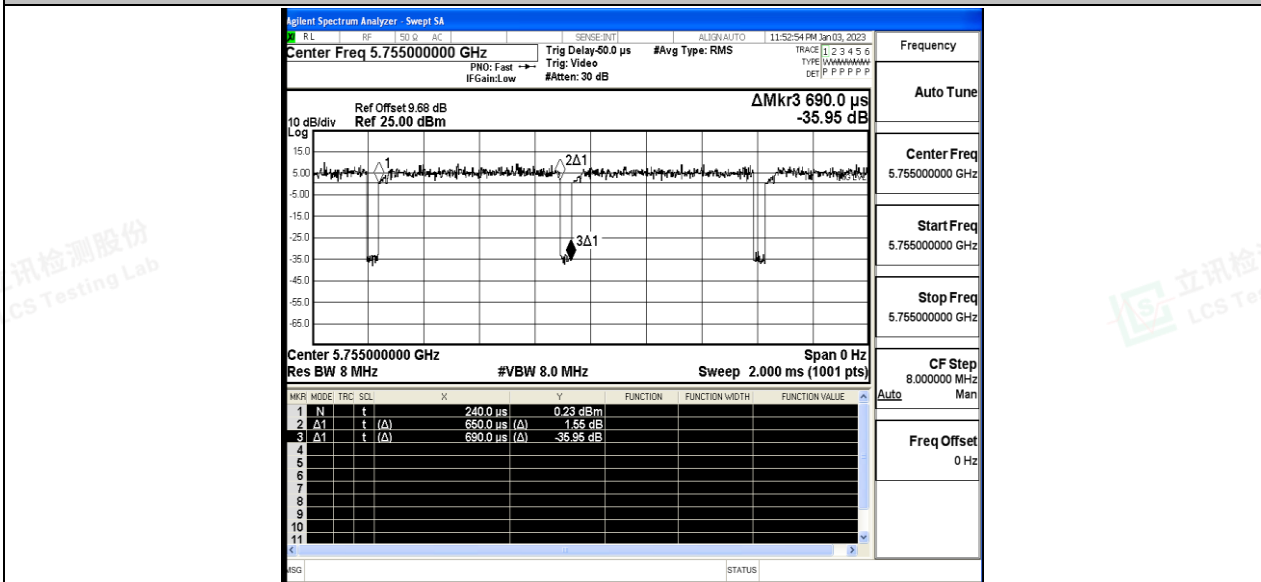


11AC20SISO\_Ant1\_5825



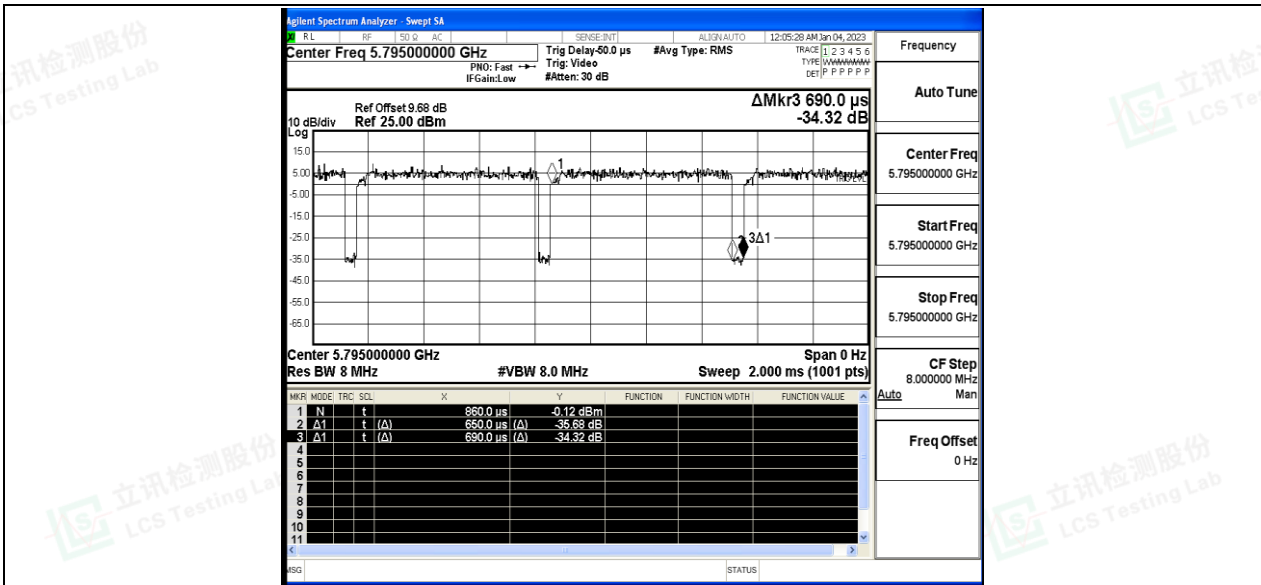


11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant1\_5795





11AC80SISO\_Ant1\_5775

