



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: laptop

Test Model: FZTK142

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan





D.1 26dB Bandwidth

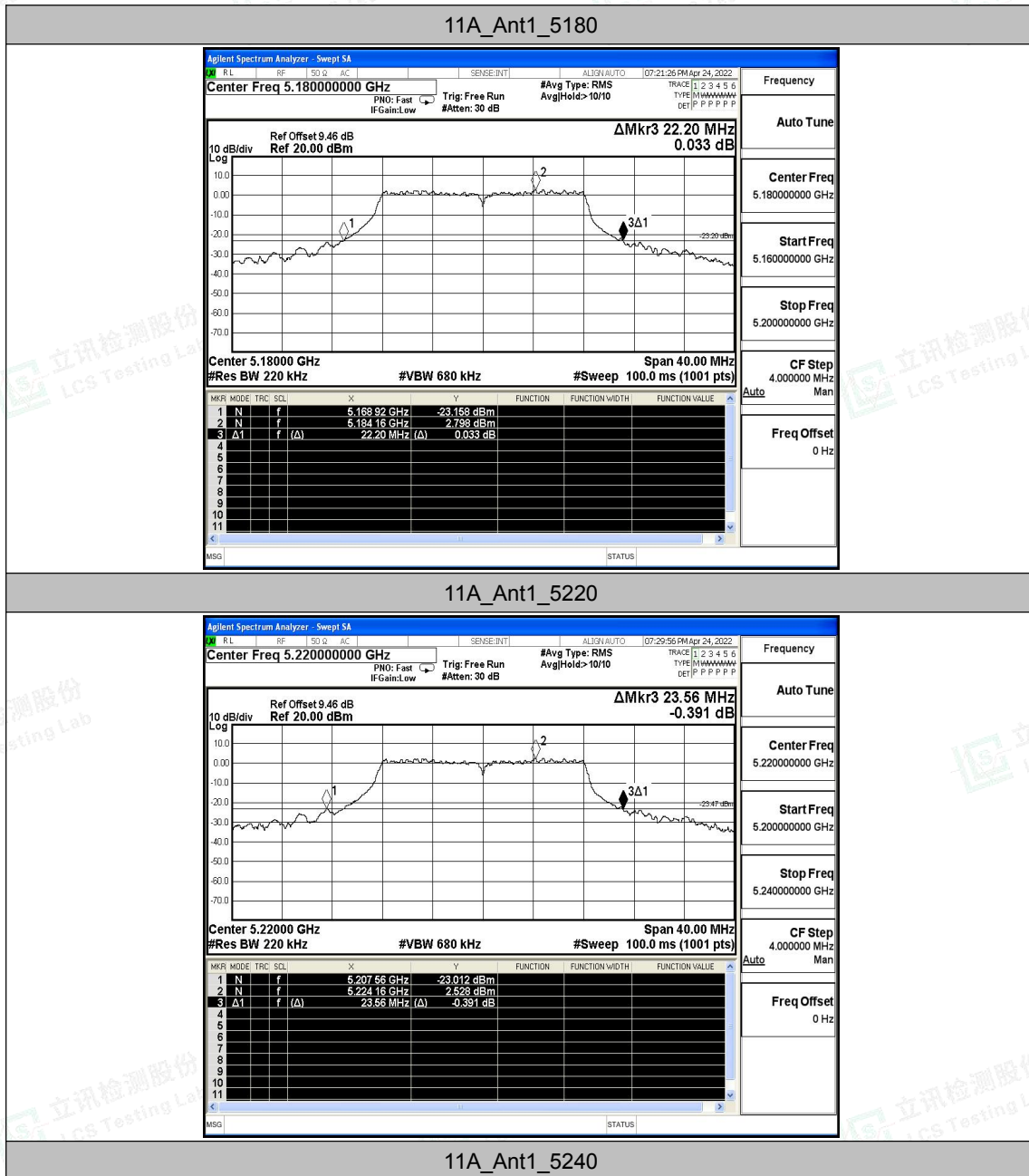
Test Result

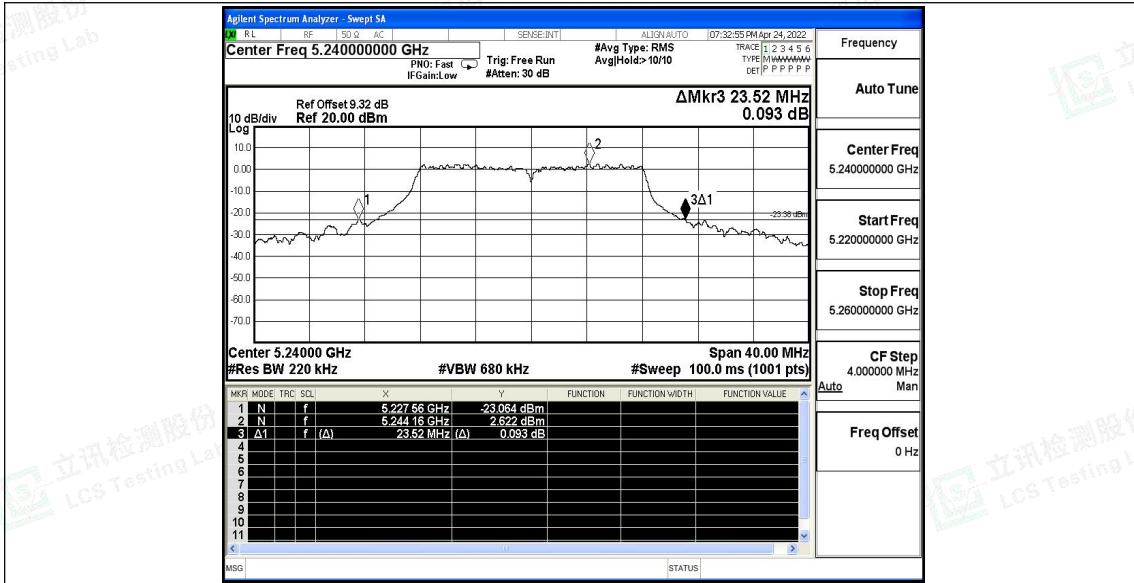
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.200	5168.920	5191.120	---	---
		5220	23.560	5207.560	5231.120	---	---
		5240	23.520	5227.560	5251.080	---	---
11N20SISO	Ant1	5180	22.840	5168.400	5191.240	---	---
		5220	23.200	5208.360	5231.560	---	---
		5240	22.960	5228.320	5251.280	---	---
11N40SISO	Ant1	5190	44.560	5167.680	5212.240	---	---
		5230	44.800	5207.680	5252.480	---	---
11AC20SISO	Ant1	5180	23.160	5168.120	5191.280	---	---
		5220	22.960	5208.240	5231.200	---	---
		5240	23.040	5228.200	5251.240	---	---
11AC40SISO	Ant1	5190	44.480	5167.760	5212.240	---	---
		5230	44.800	5207.600	5252.400	---	---
11AC80SISO	Ant1	5210	84.160	5167.920	5252.080	---	---



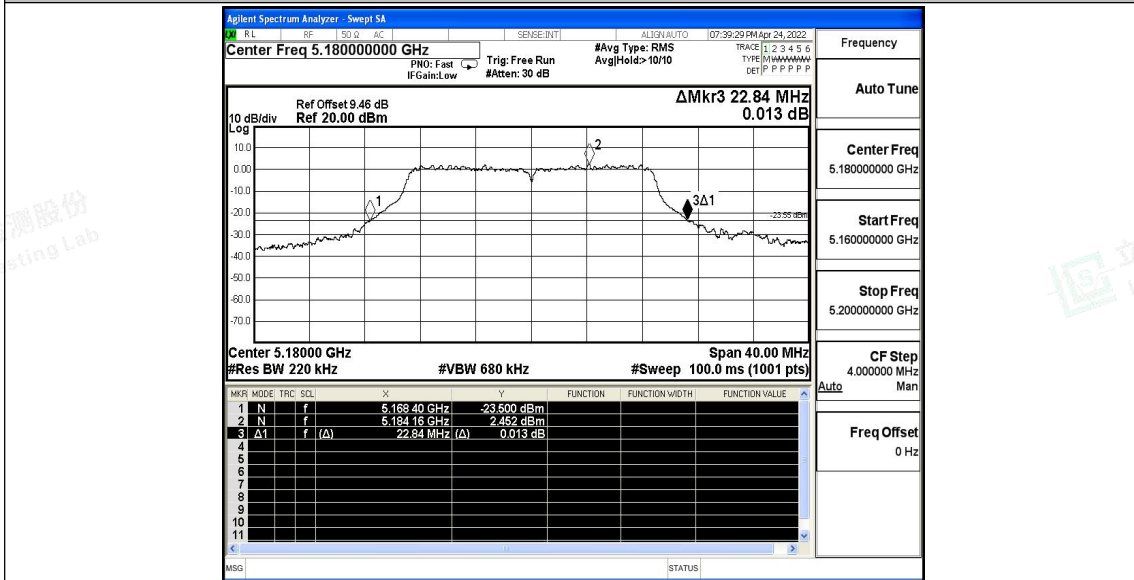


Test Graphs



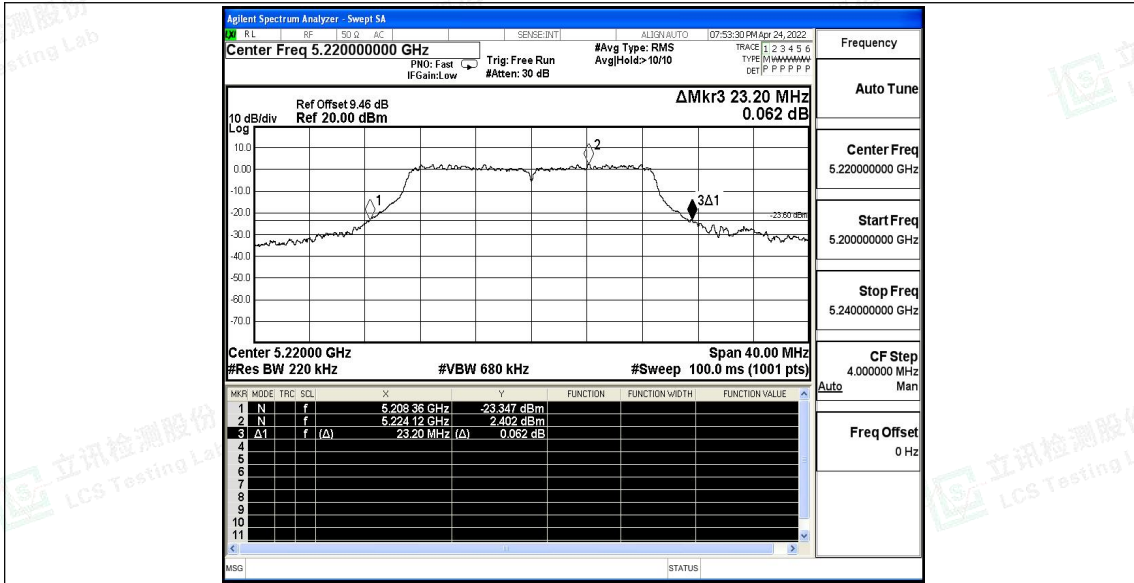


11N20SISO_Ant1_5180

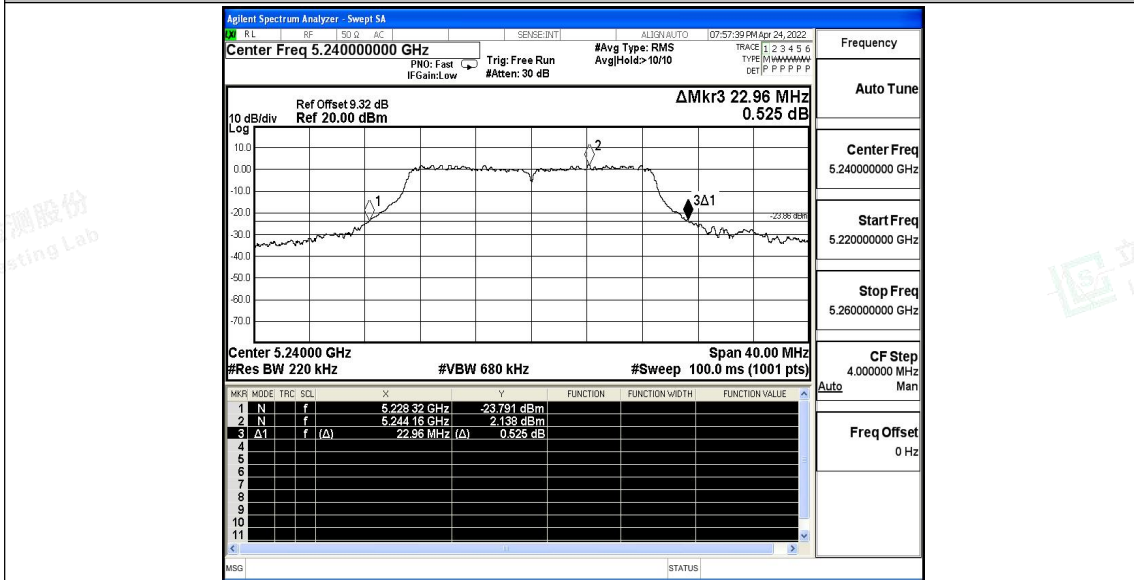


11N20SISO_Ant1_5220



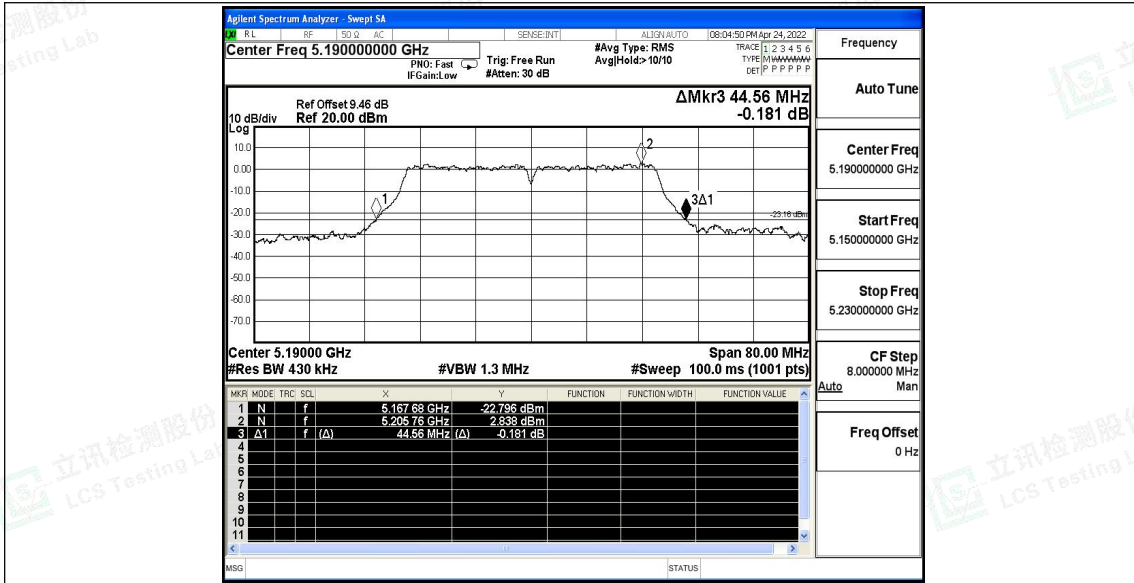


11N20SISO_Ant1_5240

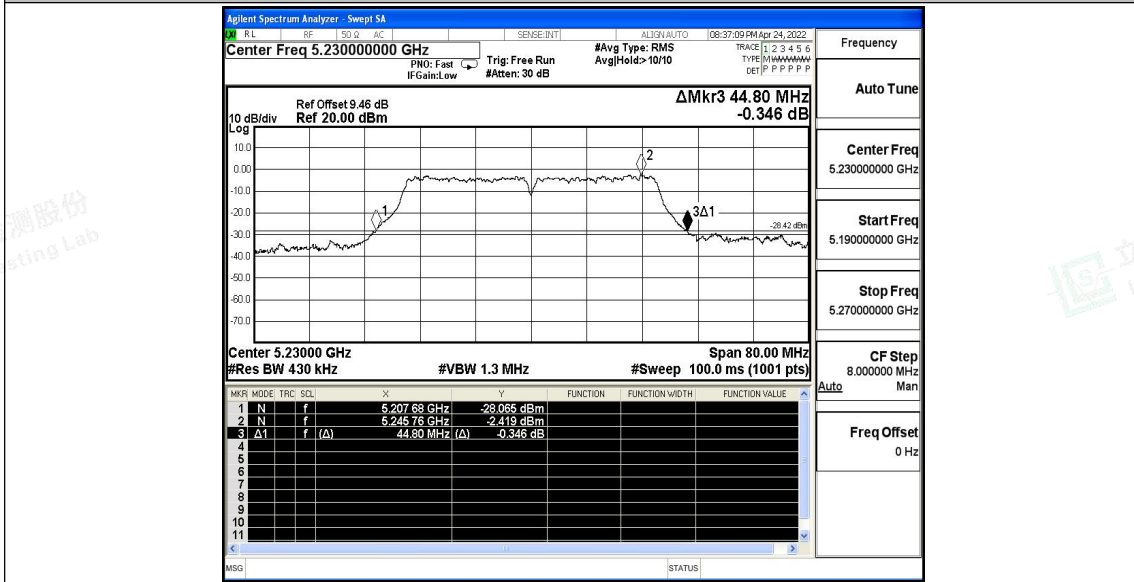


11N40SISO_Ant1_5190



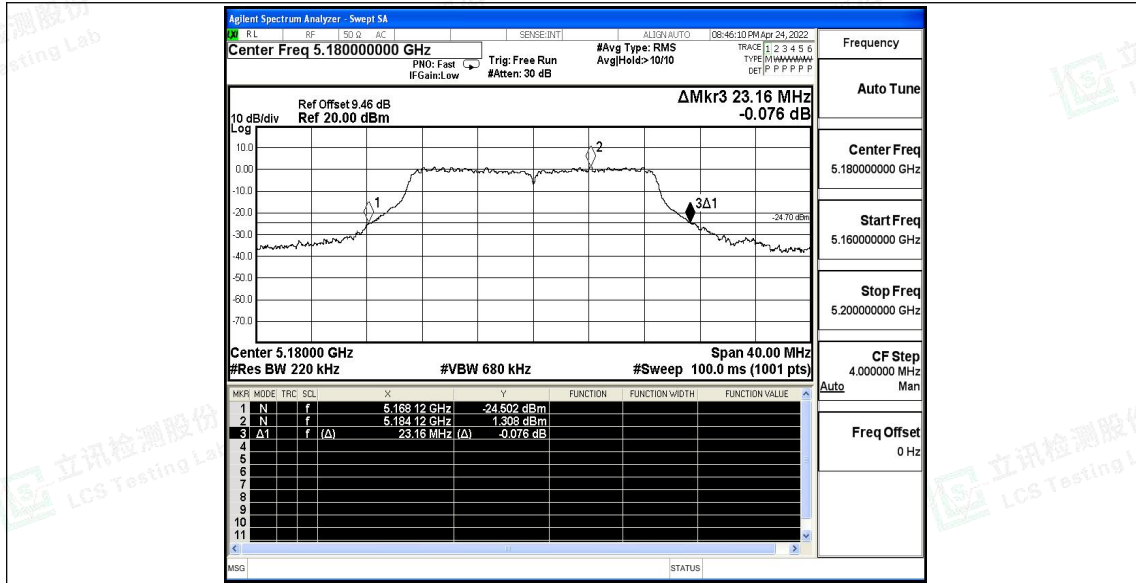


11N40SISO_Ant1_5230

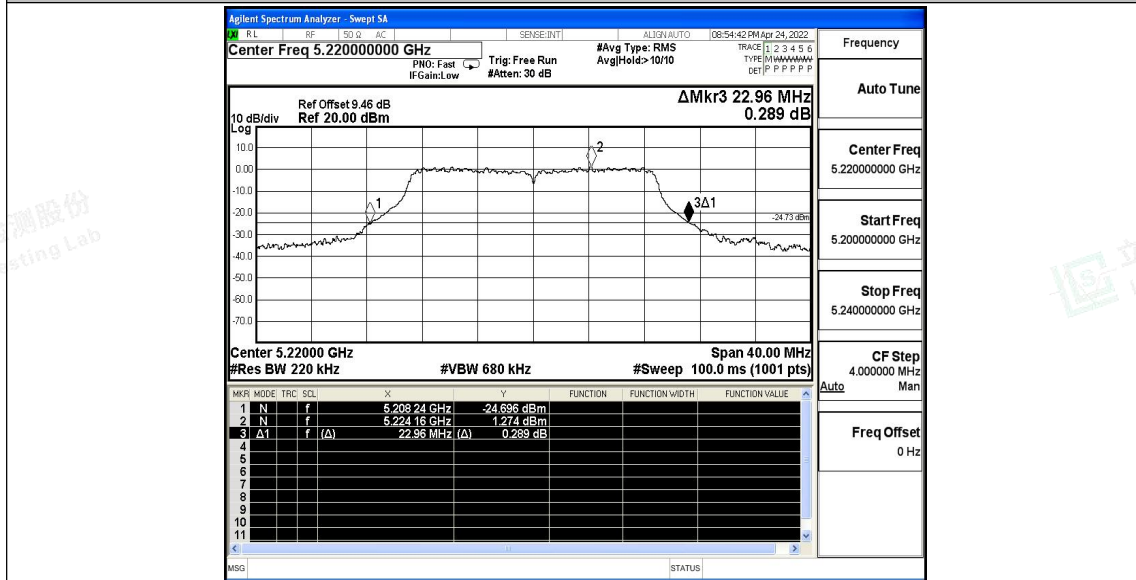


11AC20SISO_Ant1_5180



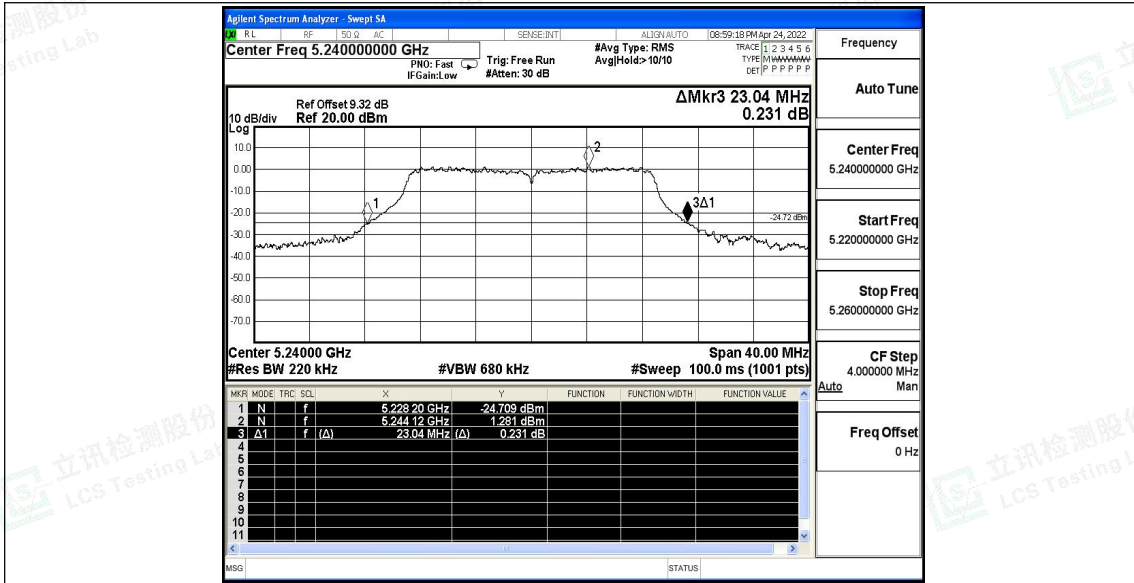


11AC20SISO_Ant1_5220

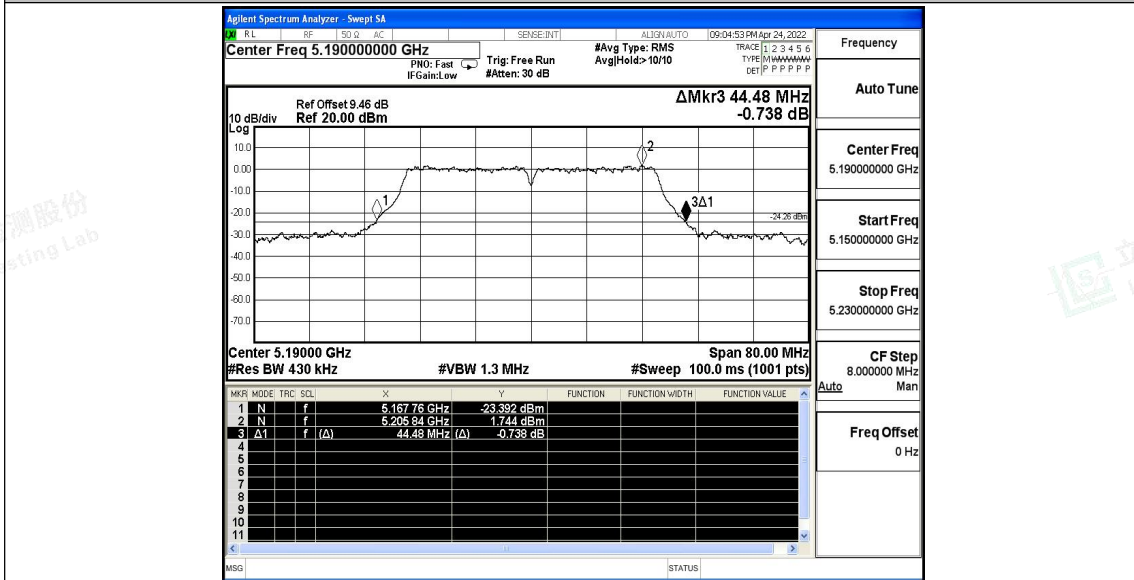


11AC20SISO_Ant1_5240



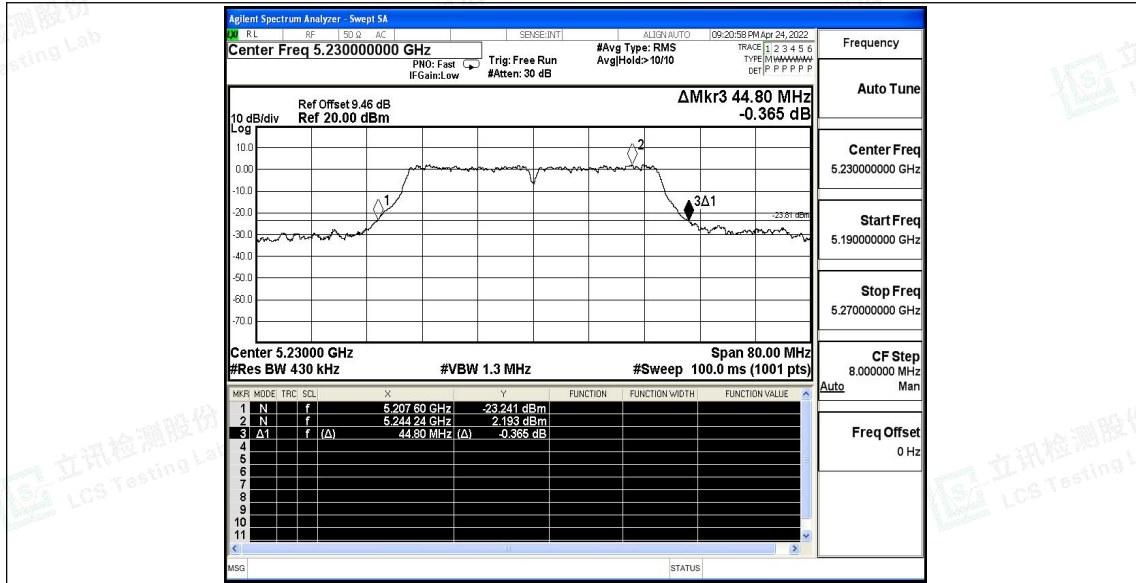


11AC40SISO_Ant1_5190

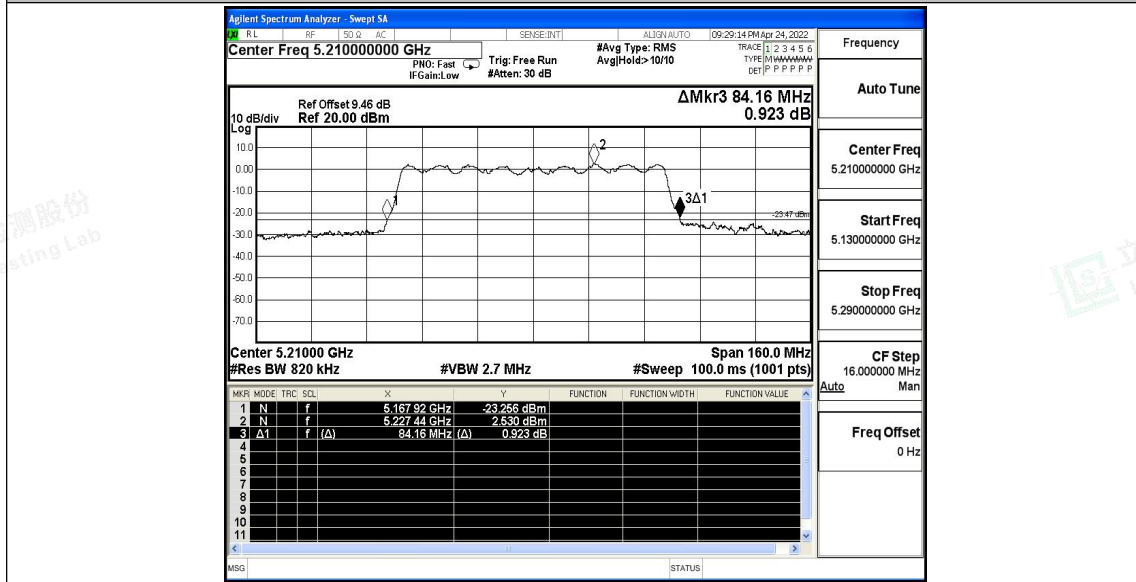


11AC40SISO_Ant1_5230





11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.01	≤23.98	PASS
		5220	12.89	≤23.98	PASS
		5240	12.79	≤23.98	PASS
11N20SISO	Ant1	5180	12.61	≤23.98	PASS
		5220	12.78	≤23.98	PASS
		5240	12.73	≤23.98	PASS
11N40SISO	Ant1	5190	12.74	≤23.98	PASS
		5230	12.65	≤23.98	PASS
11AC20SISO	Ant1	5180	11.86	≤23.98	PASS
		5220	11.74	≤23.98	PASS
		5240	11.64	≤23.98	PASS
11AC40SISO	Ant1	5190	11.89	≤23.98	PASS
		5230	12.22	≤23.98	PASS
11AC80SISO	Ant1	5210	11.91	≤23.98	PASS

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





D.3 Maximum power spectral density

Test Result

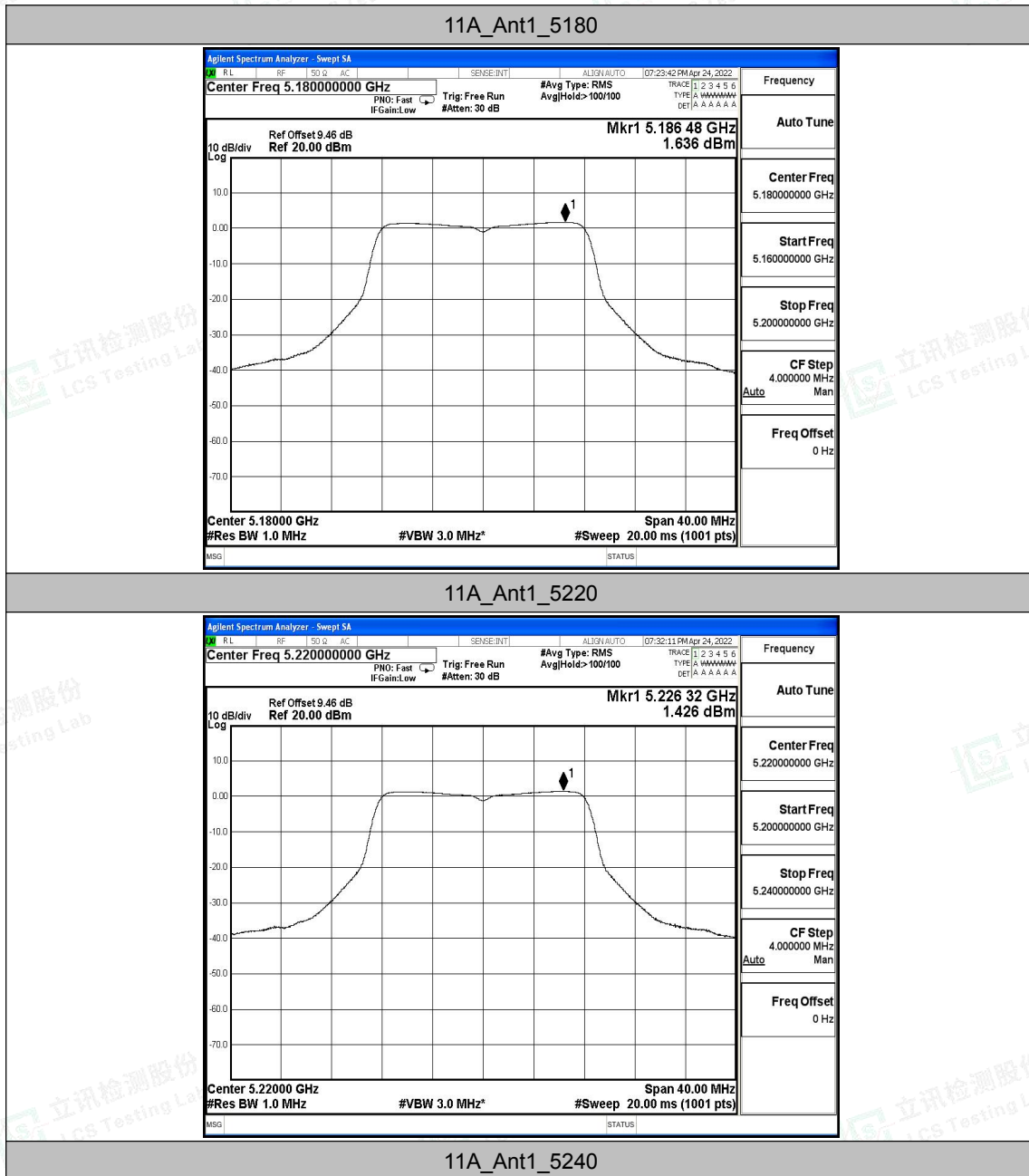
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.65	≤11.00	PASS
		5220	1.41	≤11.00	PASS
		5240	1.46	≤11.00	PASS
11N20SISO	Ant1	5180	1.03	≤11.00	PASS
		5220	1.19	≤11.00	PASS
		5240	1.09	≤11.00	PASS
11N40SISO	Ant1	5190	-1.8	≤11.00	PASS
		5230	-1.93	≤11.00	PASS
11AC20SISO	Ant1	5180	0.21	≤11.00	PASS
		5220	0.14	≤11.00	PASS
		5240	0	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.83	≤11.00	PASS
		5230	-2.45	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.61	≤11.00	PASS

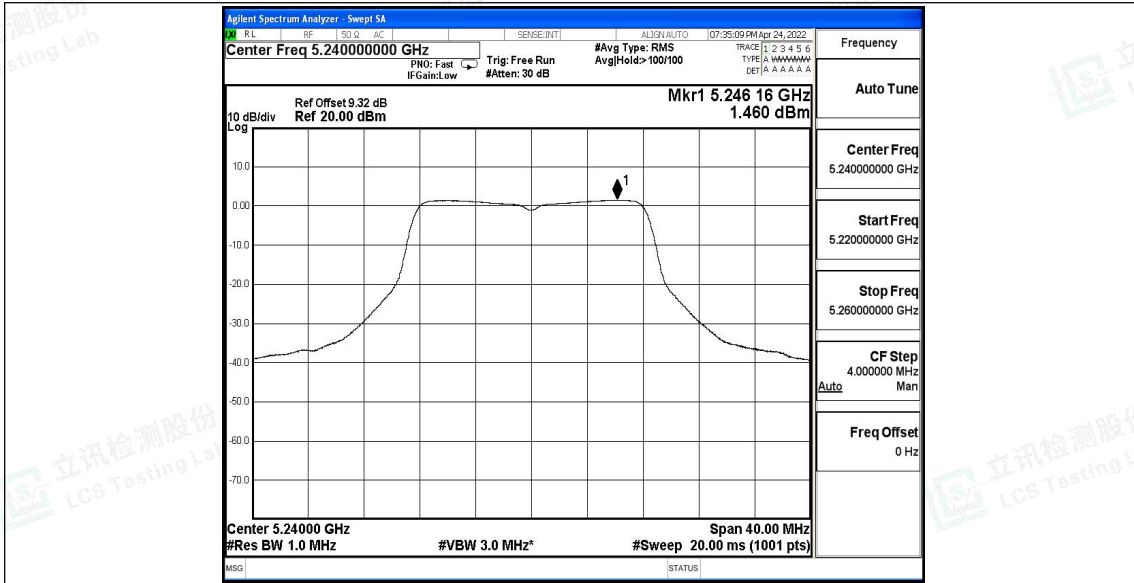
Note: 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.



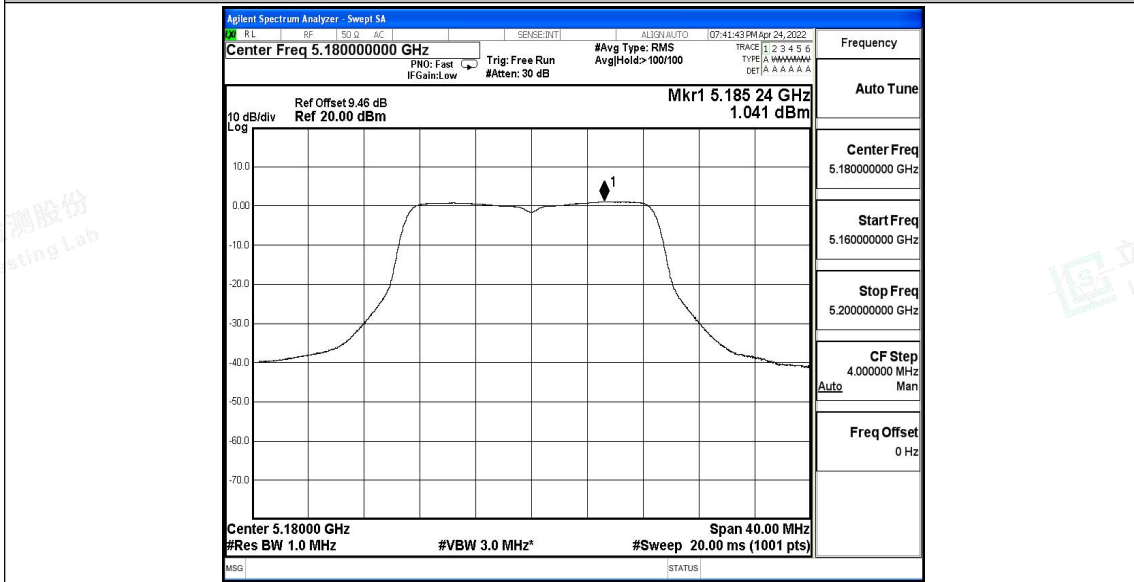


Test Graphs



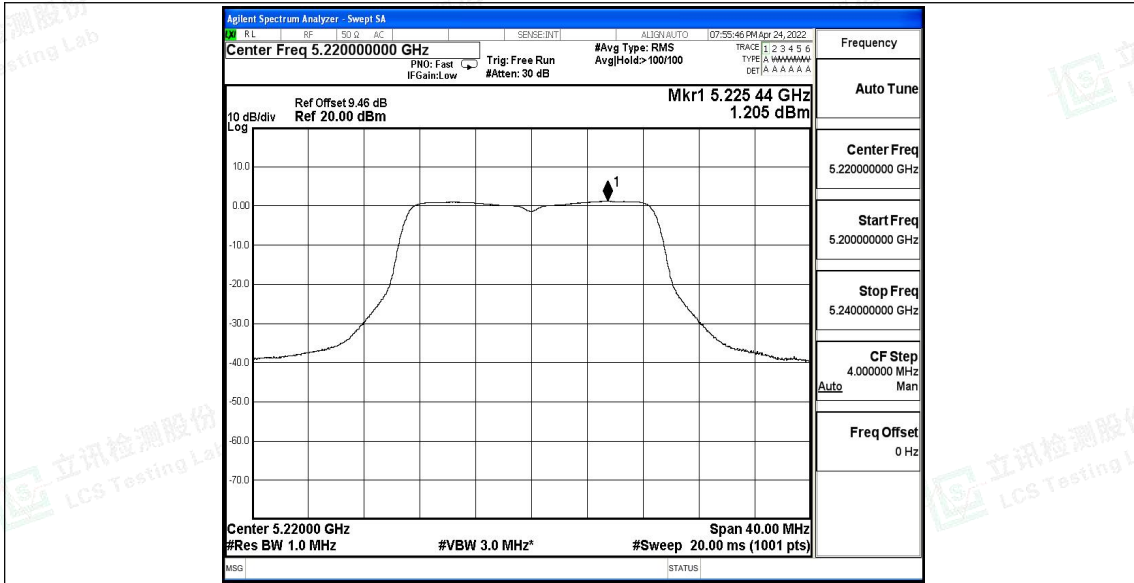


11N20SISO_Ant1_5180

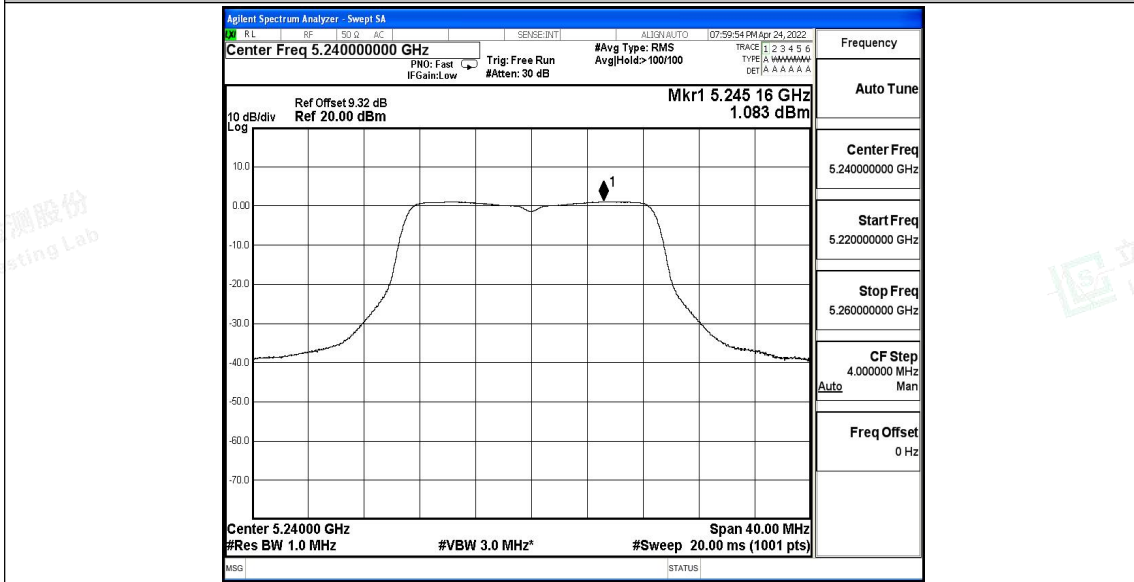


11N20SISO_Ant1_5220



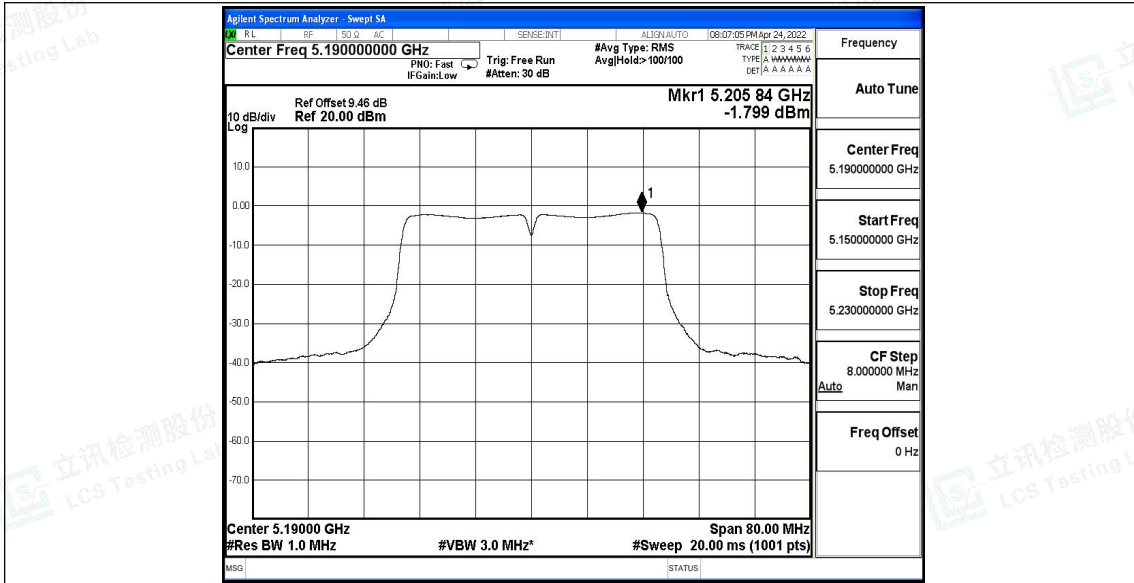


11N20SISO_Ant1_5240

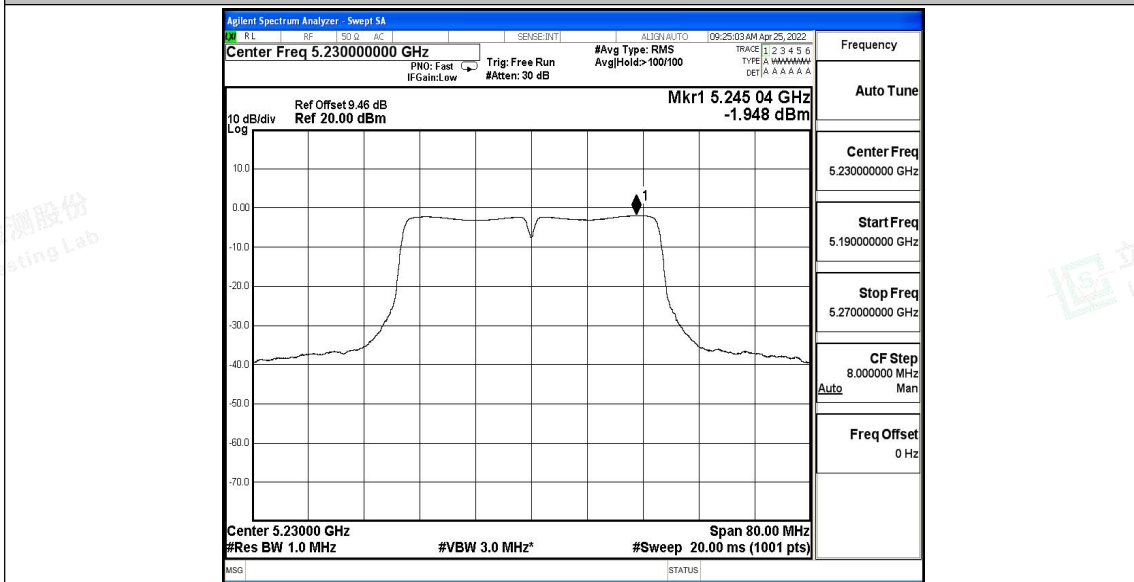


11N40SISO_Ant1_5190



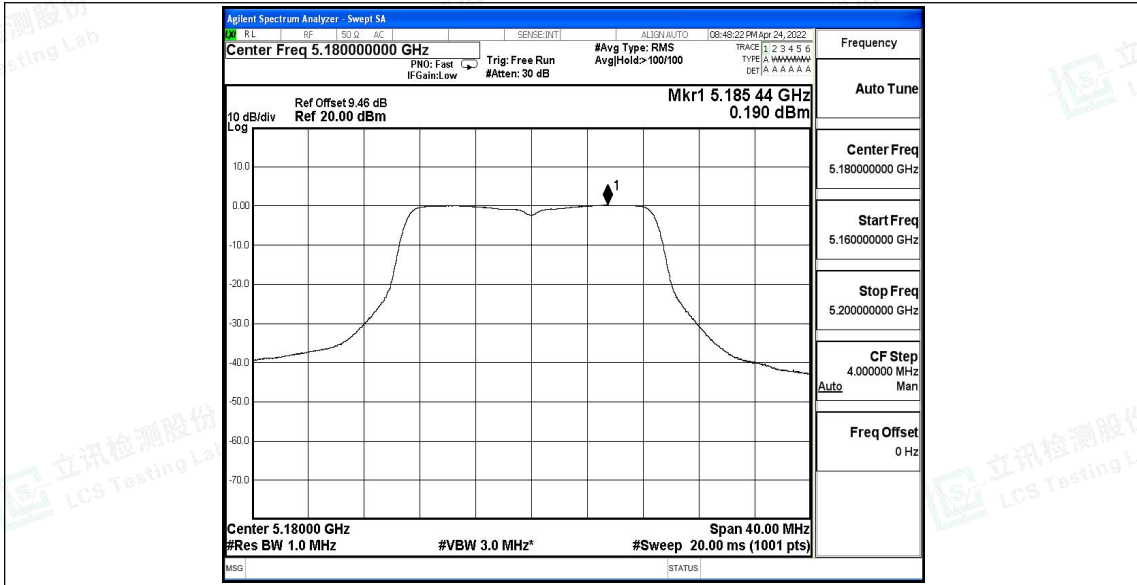


11N40SISO_Ant1_5230

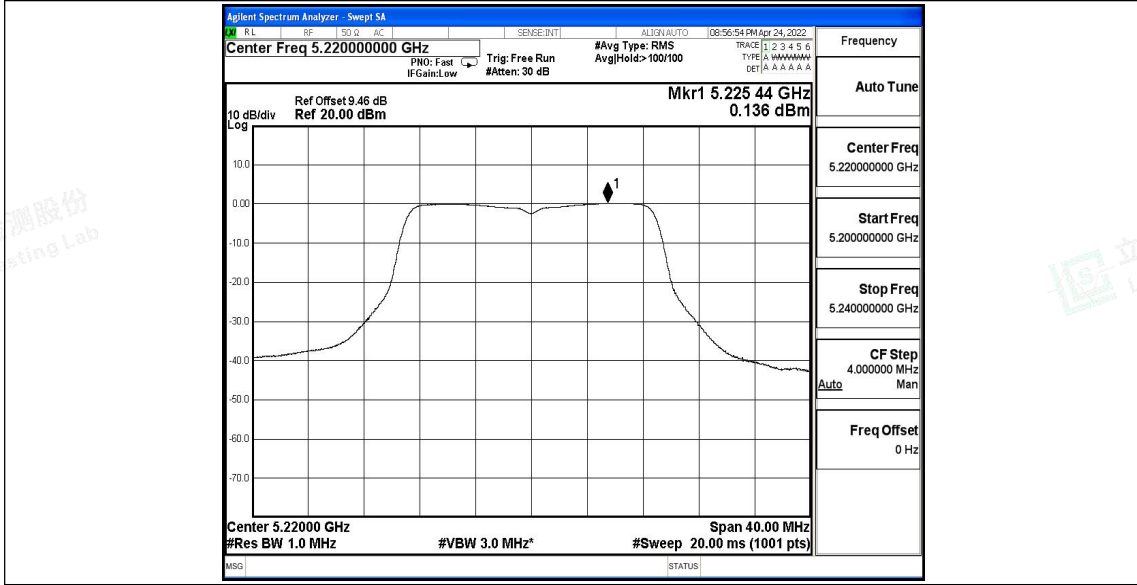


11AC20SISO_Ant1_5180



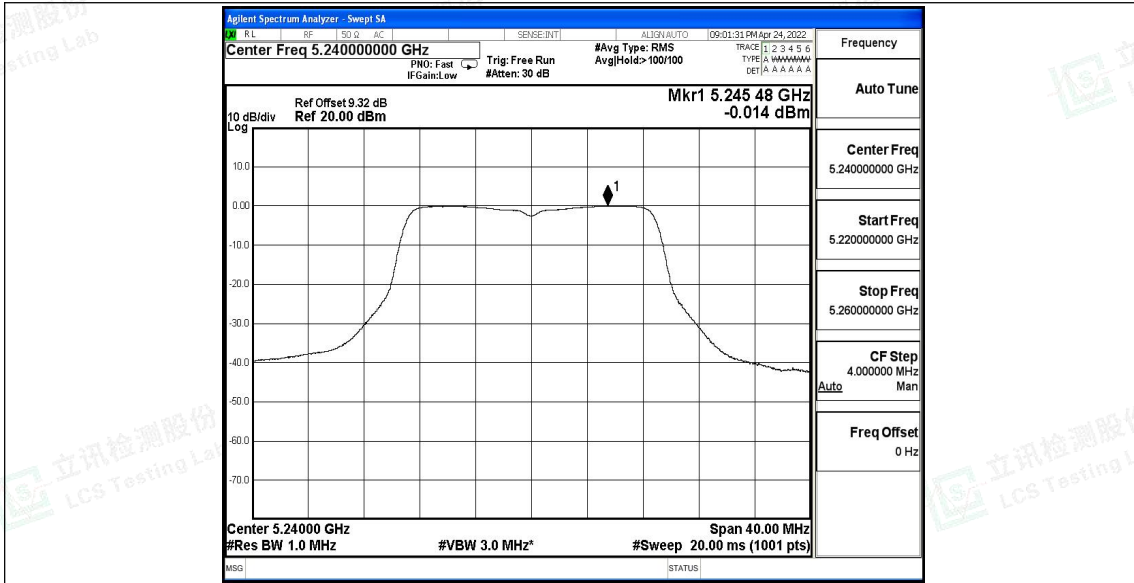


11AC20SISO_Ant1_5220

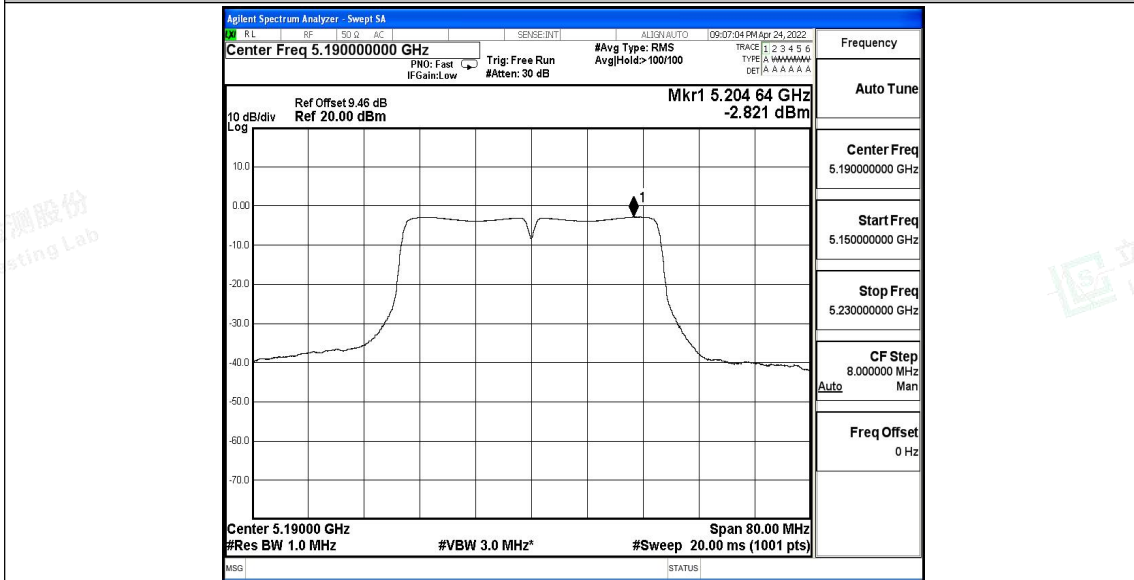


11AC20SISO_Ant1_5240



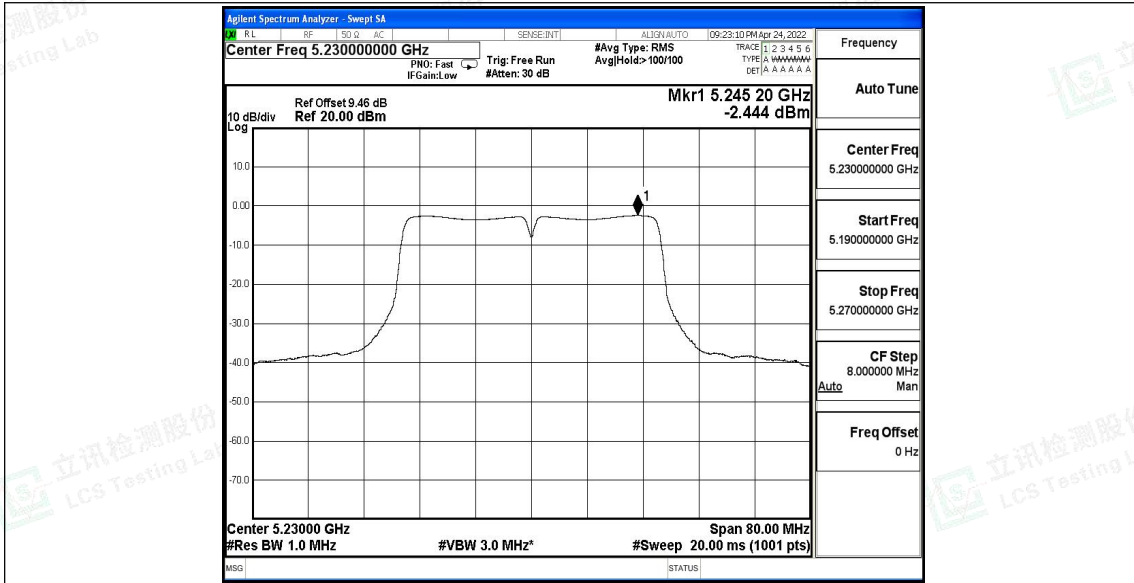


11AC40SISO_Ant1_5190

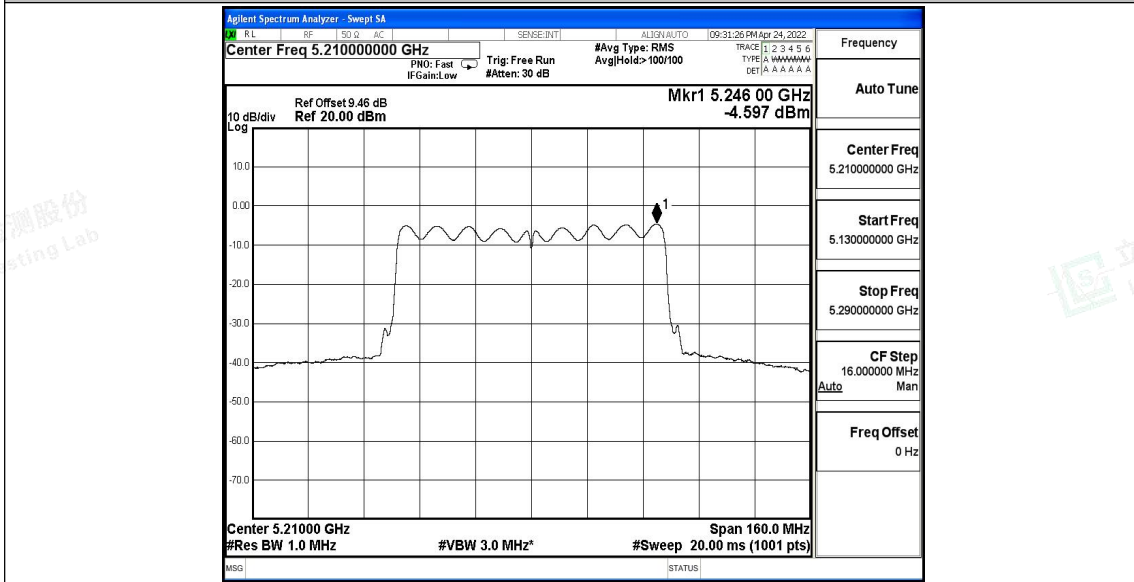


11AC40SISO_Ant1_5230





11AC80SISO_Ant1_5210





D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBUV/m]	Limit [dBUV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-49.46	≤-41.20	45.74	≤54	PASS
				AV	5149.600	-45.23	≤-41.20	49.97	≤54	PASS
				AV	5150.000	-44.64	≤-41.20	50.56	≤54	PASS
				Peak	4500.000	-40.12	≤-21.20	55.08	≤68.2	PASS
				Peak	5147.500	-34.64	≤-21.20	60.56	≤68.2	PASS
				Peak	5150.000	-35.58	≤-21.20	59.62	≤68.2	PASS
		High	5240	AV	5350.000	-47.85	≤-41.20	47.35	≤54	PASS
				AV	5396.640	-47.78	≤-41.20	47.42	≤54	PASS
				AV	5460.000	-47.91	≤-41.20	47.29	≤54	PASS
				Peak	5350.000	-39.35	≤-21.20	55.85	≤68.2	PASS
				Peak	5375.520	-37.08	≤-21.20	58.12	≤68.2	PASS
				Peak	5460.000	-38.06	≤-21.20	57.14	≤68.2	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-49.41	≤-41.20	45.79	≤54	PASS
				AV	5149.600	-44.74	≤-41.20	50.46	≤54	PASS
				AV	5150.000	-44.23	≤-41.20	50.97	≤54	PASS
				Peak	4500.000	-39.99	≤-21.20	55.21	≤68.2	PASS
				Peak	5149.600	-29.4	≤-21.20	65.80	≤68.2	PASS
				Peak	5150.000	-31.02	≤-21.20	64.18	≤68.2	PASS
		High	5240	AV	5350.000	-47.84	≤-41.20	47.36	≤54	PASS
				AV	5395.920	-47.75	≤-41.20	47.45	≤54	PASS
				AV	5460.000	-47.9	≤-41.20	47.30	≤54	PASS
				Peak	5350.000	-39.64	≤-21.20	55.56	≤68.2	PASS
				Peak	5351.040	-36.68	≤-21.20	58.52	≤68.2	PASS
				Peak	5460.000	-38.74	≤-21.20	56.46	≤68.2	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-49.41	≤-41.20	45.79	≤54	PASS
				AV	5149.600	-43.55	≤-41.20	51.65	≤54	PASS
				AV	5150.000	-43.08	≤-41.20	52.12	≤54	PASS
				Peak	4500.000	-40.71	≤-21.20	54.49	≤68.2	PASS
				Peak	5146.800	-33.05	≤-21.20	62.15	≤68.2	PASS
				Peak	5150.000	-34.05	≤-21.20	61.15	≤68.2	PASS
		High	5230	AV	5350.000	-47.94	≤-41.20	47.26	≤54	PASS
				AV	5379.400	-47.89	≤-41.20	47.31	≤54	PASS
				AV	5460.000	-48.06	≤-41.20	47.14	≤54	PASS
				Peak	5350.000	-38.44	≤-21.20	56.76	≤68.2	PASS
				Peak	5438.160	-36.67	≤-21.20	58.53	≤68.2	PASS





11AC20SI SO	Ant1	Low	5180	Peak	5460.000	-39.85	≤-21.20	55.35	≤68.2	PASS
				AV	4500.000	-49.45	≤-41.20	45.75	≤54	PASS
				AV	5149.600	-45.1	≤-41.20	50.10	≤54	PASS
				AV	5150.000	-44.66	≤-41.20	50.54	≤54	PASS
				Peak	4500.000	-40.21	≤-21.20	54.99	≤68.2	PASS
				Peak	5146.100	-30.89	≤-21.20	64.31	≤68.2	PASS
	High	5240	AV	5350.000	-47.8	≤-41.20	47.40	≤54	PASS	
			AV	5393.520	-47.66	≤-41.20	47.54	≤54	PASS	
			AV	5460.000	-47.87	≤-41.20	47.33	≤54	PASS	
			Peak	5350.000	-38.04	≤-21.20	57.16	≤68.2	PASS	
			Peak	5375.040	-36.8	≤-21.20	58.40	≤68.2	PASS	
			Peak	5460.000	-39.24	≤-21.20	55.96	≤68.2	PASS	
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	5149.600	-42.62	≤-41.20	52.58	≤54	PASS
				AV	5150.000	-42.1	≤-41.20	53.10	≤54	PASS
				Peak	4500.000	-40.51	≤-21.20	54.69	≤68.2	PASS
				Peak	5148.200	-33.84	≤-21.20	61.36	≤68.2	PASS
				Peak	5150.000	-32.36	≤-21.20	62.84	≤68.2	PASS
	High	5230	AV	5350.000	-47.77	≤-41.20	47.43	≤54	PASS	
			AV	5383.820	-47.69	≤-41.20	47.51	≤54	PASS	
			AV	5460.000	-47.82	≤-41.20	47.38	≤54	PASS	
			Peak	5350.000	-38.78	≤-21.20	56.42	≤68.2	PASS	
			Peak	5443.880	-36.48	≤-21.20	58.72	≤68.2	PASS	
			Peak	5460.000	-39.46	≤-21.20	55.74	≤68.2	PASS	
11AC80SI SO	Ant1	Low	5210	AV	4500.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	5145.000	-41.97	≤-41.20	53.23	≤54	PASS
				AV	5150.000	-41.93	≤-41.20	53.27	≤54	PASS
				Peak	4500.000	-40.96	≤-21.20	54.24	≤68.2	PASS
				Peak	5141.250	-31.1	≤-21.20	64.10	≤68.2	PASS
				Peak	5150.000	-32.26	≤-21.20	62.94	≤68.2	PASS
	High	5210	AV	5350.000	-47.56	≤-41.20	47.64	≤54	PASS	
			AV	5350.240	-47.56	≤-41.20	47.64	≤54	PASS	
			AV	5460.000	-47.83	≤-41.20	47.37	≤54	PASS	
			Peak	5350.000	-38.59	≤-21.20	56.61	≤68.2	PASS	
			Peak	5356.120	-36.68	≤-21.20	58.52	≤68.2	PASS	
			Peak	5460.000	-39.55	≤-21.20	55.65	≤68.2	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



Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

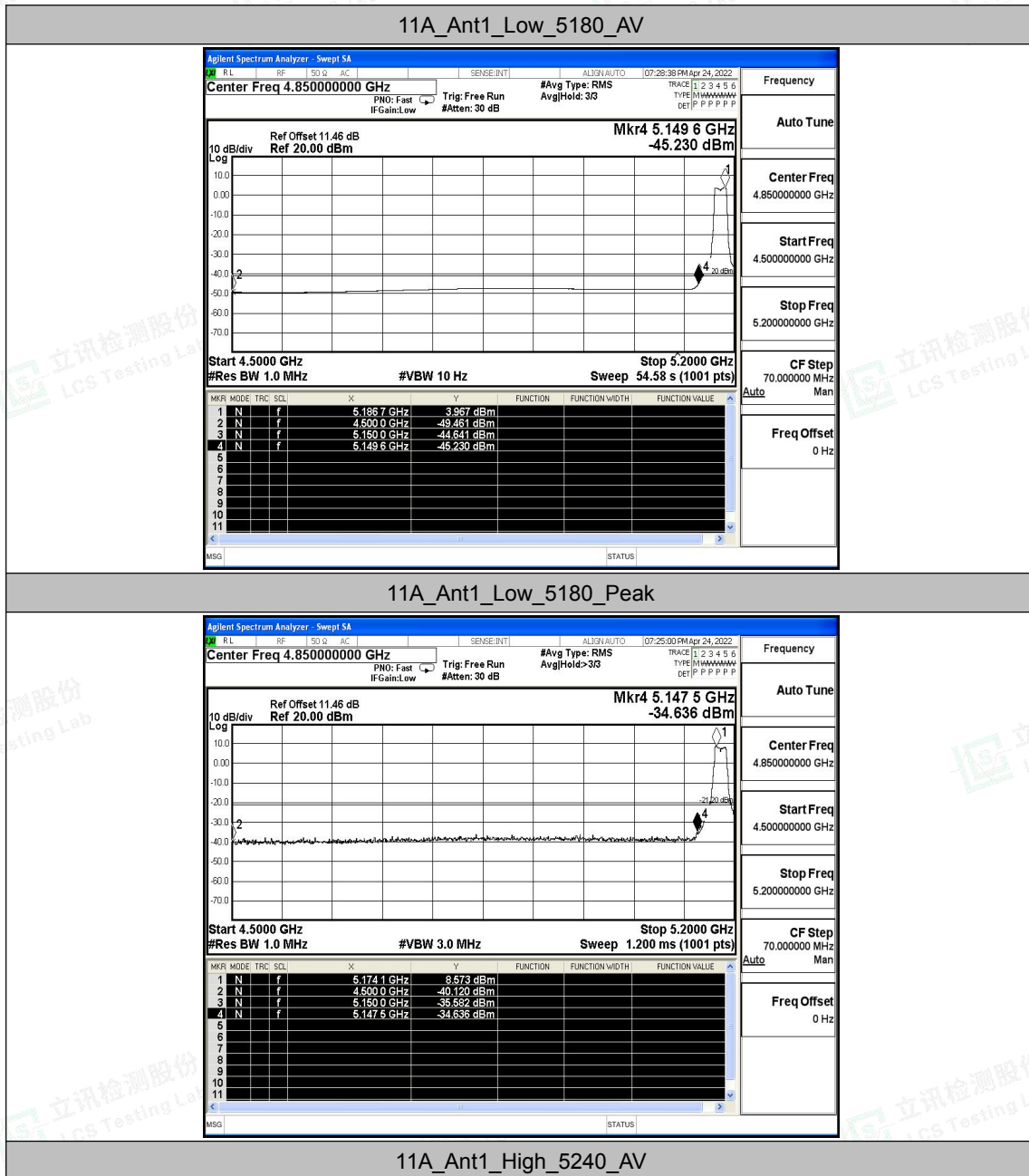


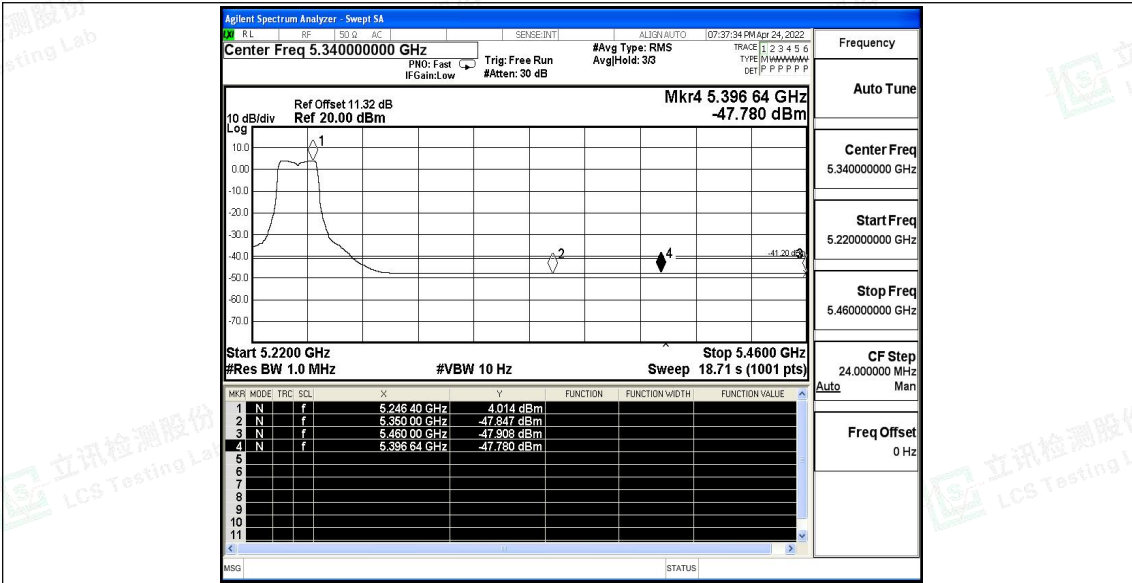
average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



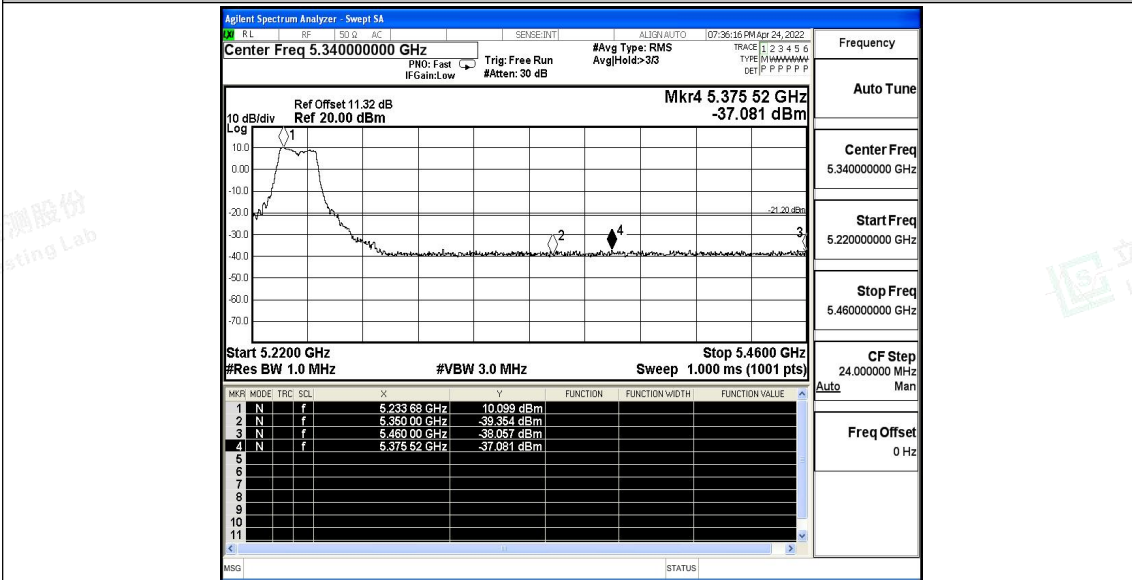


Test Graphs



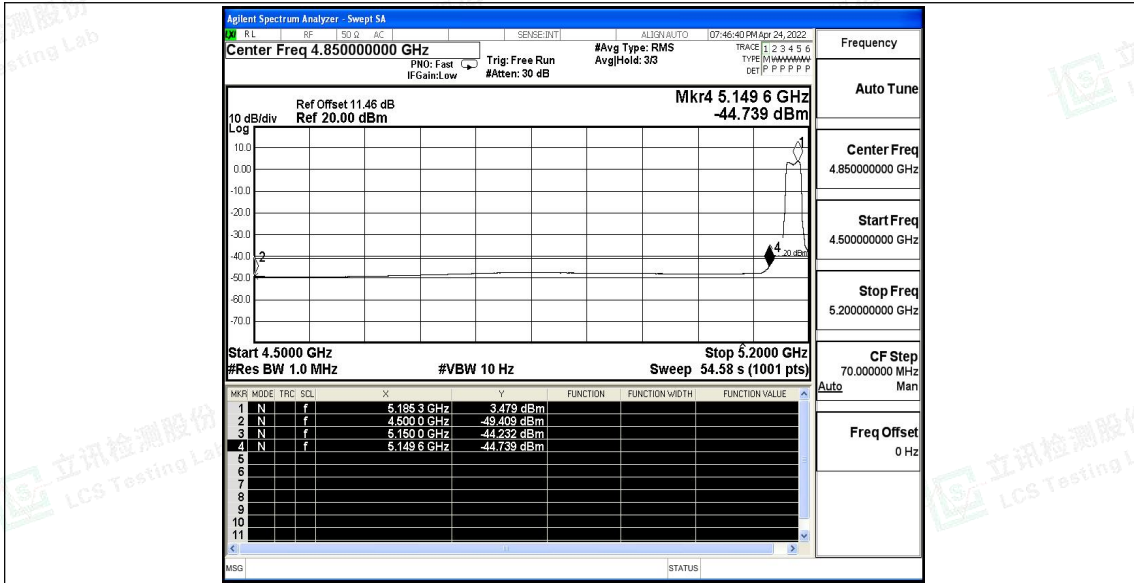


11A_Ant1_High_5240_Peak

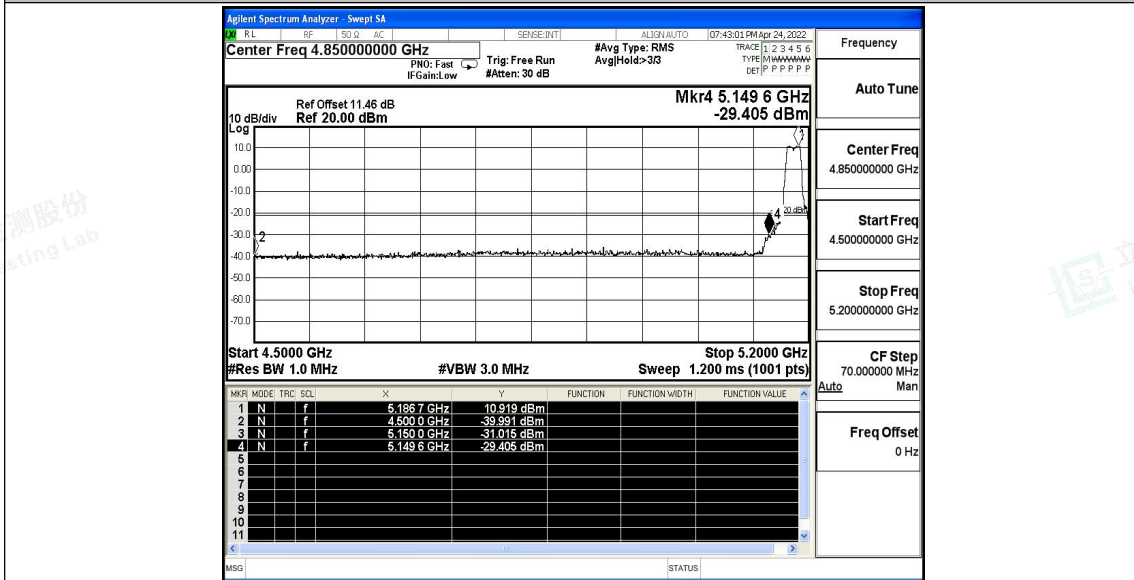


11N20SISO_Ant1_Low_5180_AV



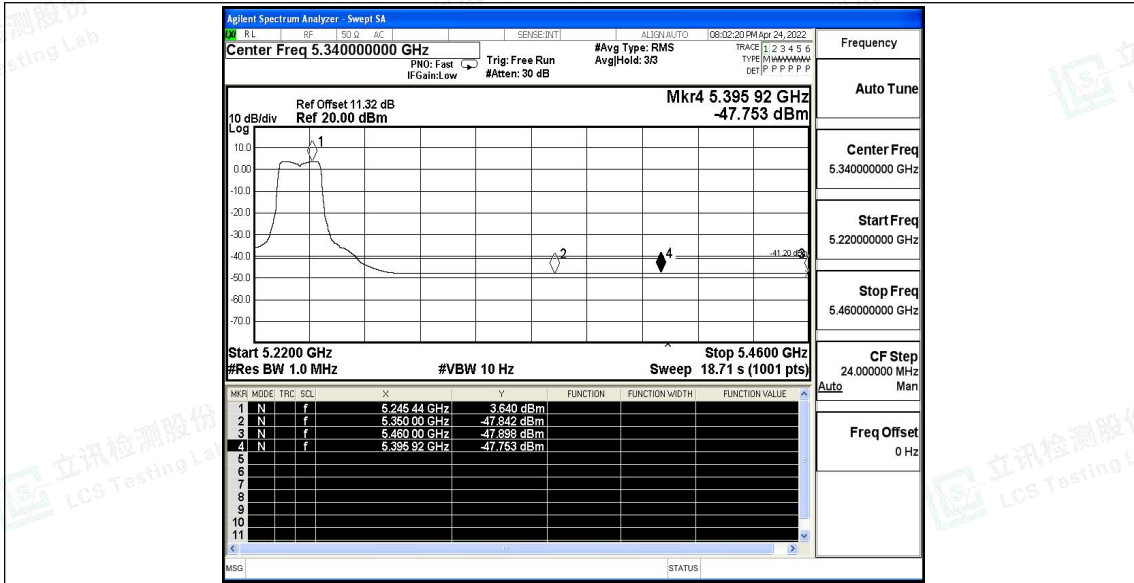


11N20SISO_Ant1_Low_5180_Peak

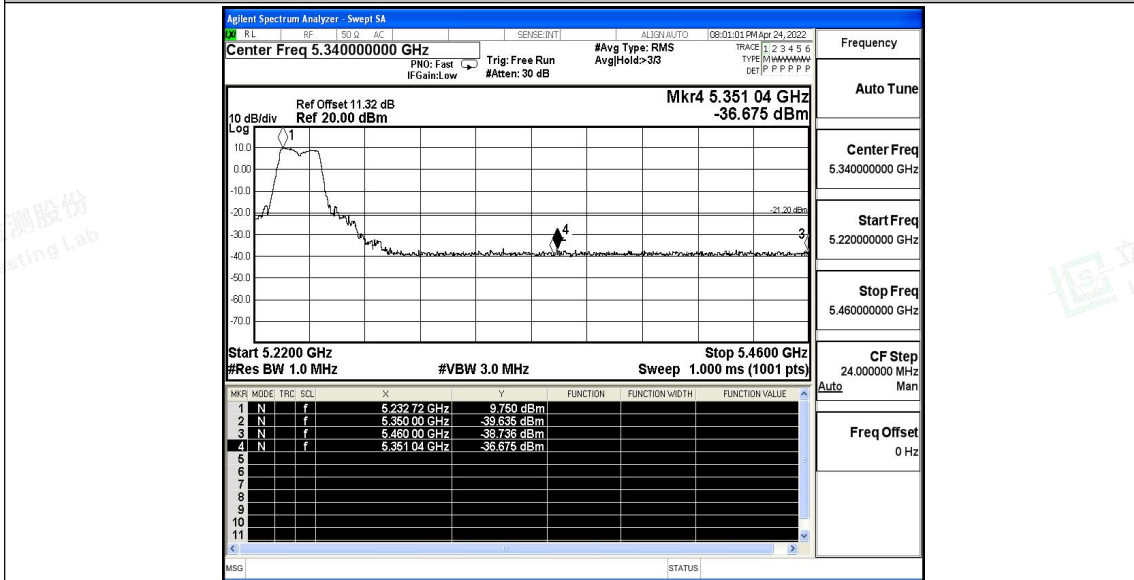


11N20SISO_Ant1_High_5240_AV



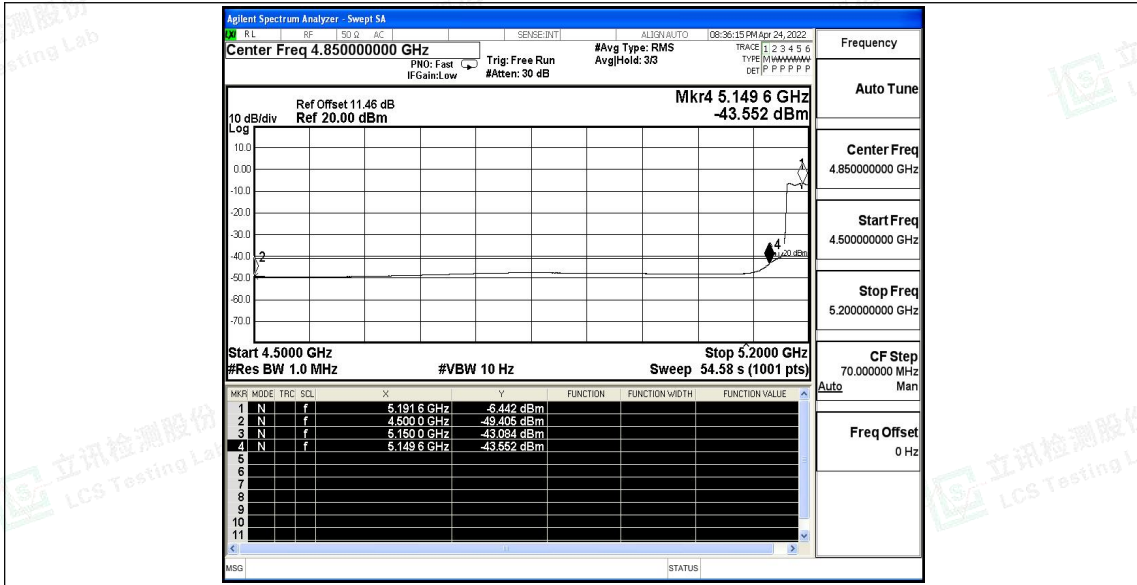


11N20SISO_Ant1_High_5240_Peak

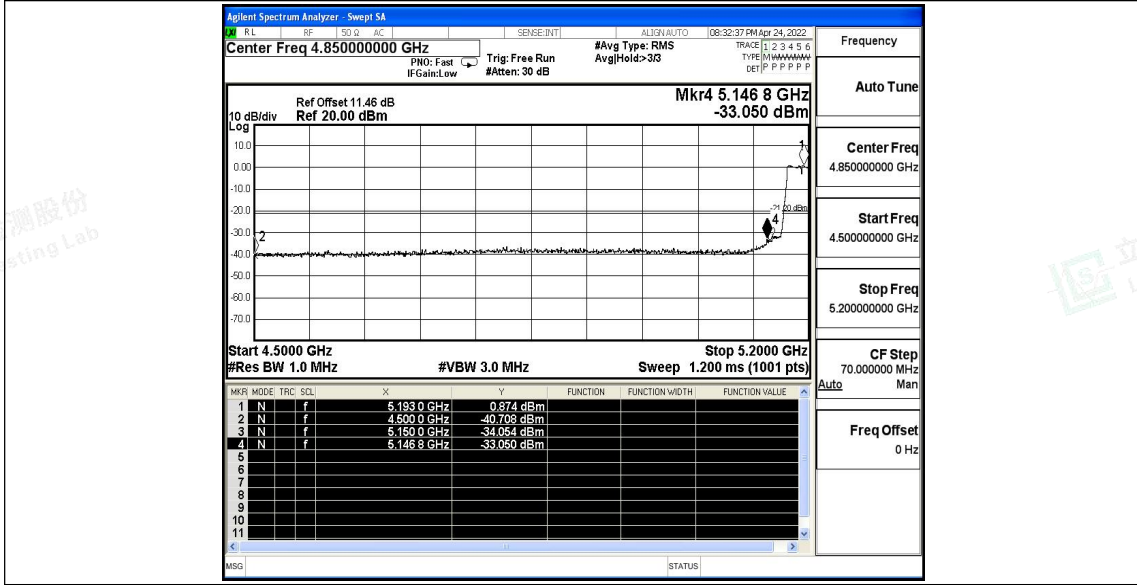


11N40SISO_Ant1_Low_5190_AV





11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV

