



## Appendix A

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Maxspect Gyre 300CE Series Controller

Test Model: XF330-CE

#### Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
Supervised by:	<i>Ling Zhu</i> Ling Zhu





## A.1 DTS Bandwidth

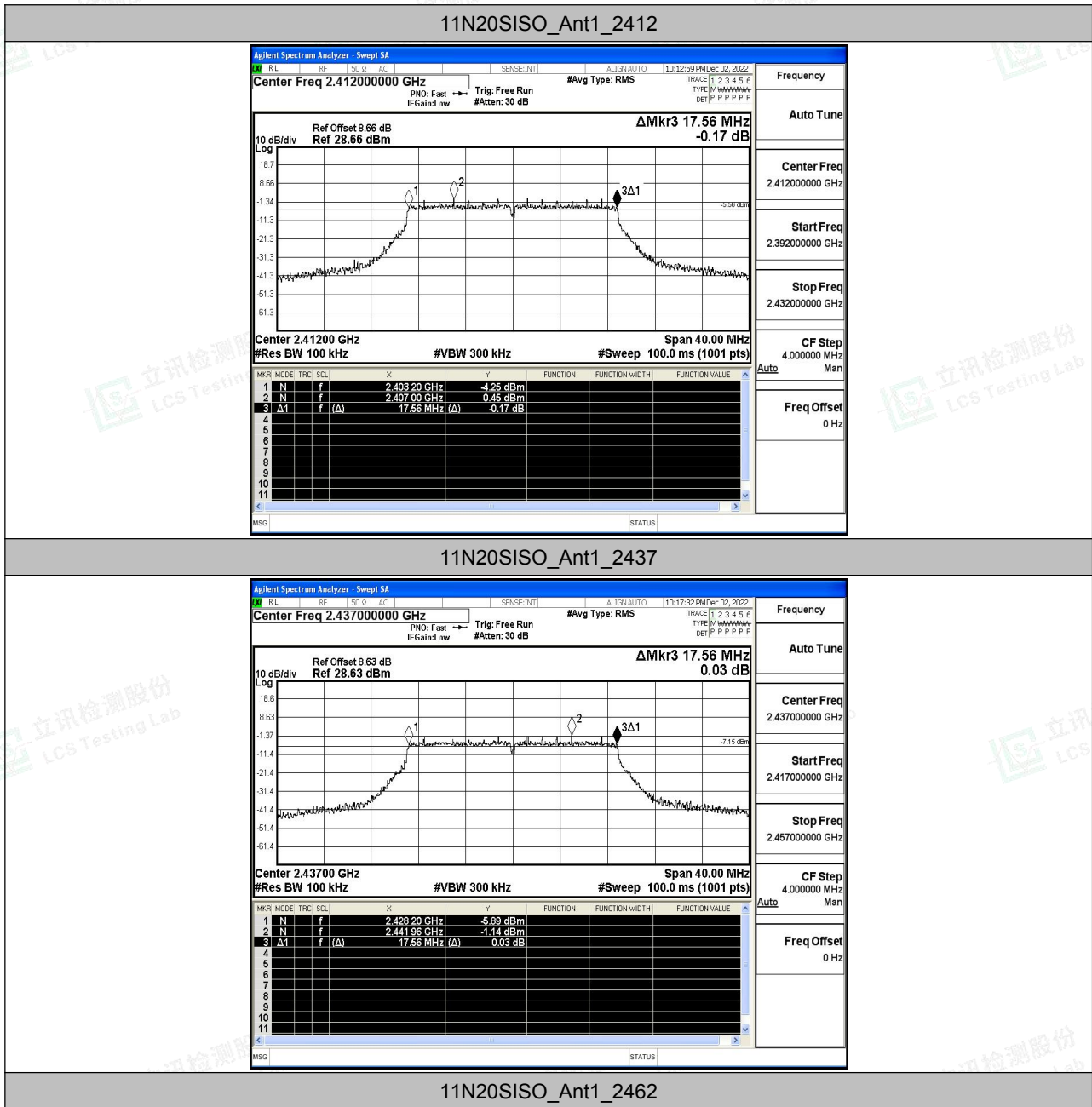
### Test Result

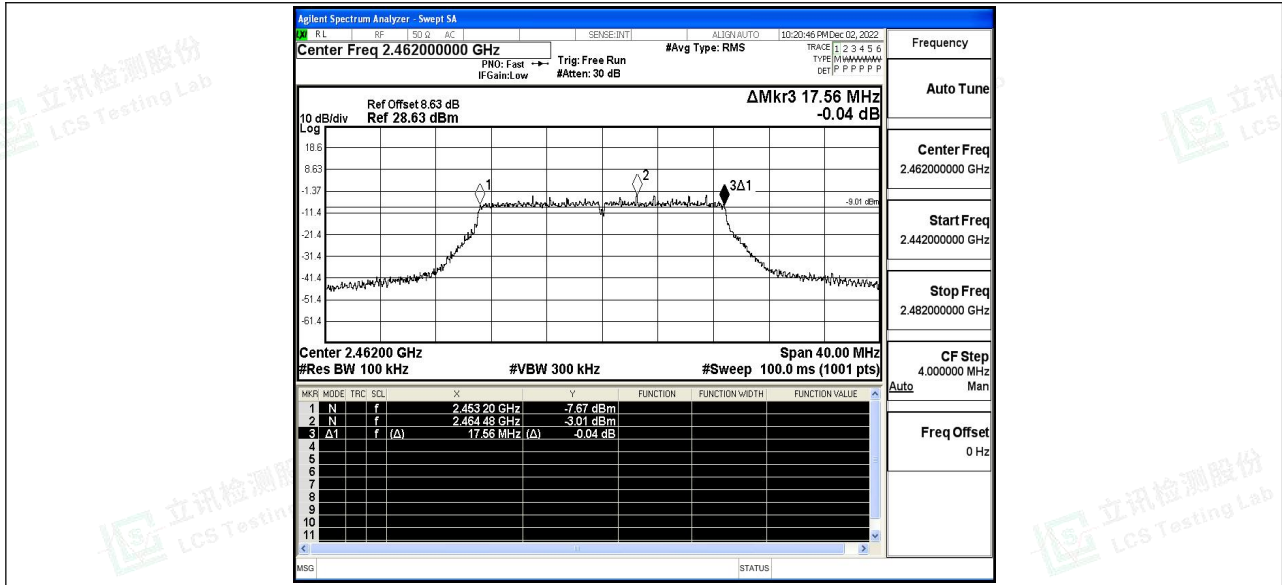
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS





### Test Graphs







## Appendix A2: Occupied Channel Bandwidth

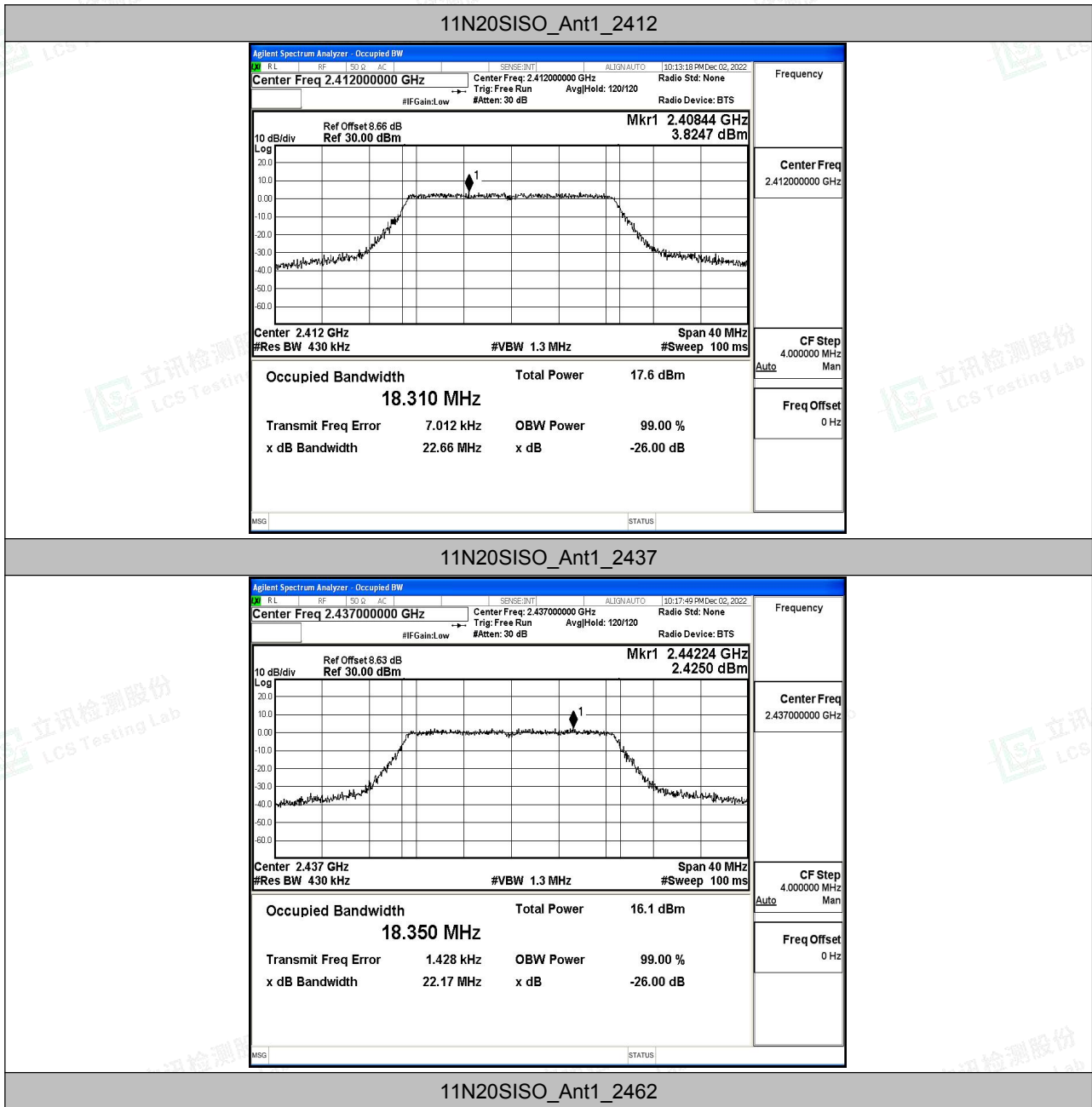
### Test Result

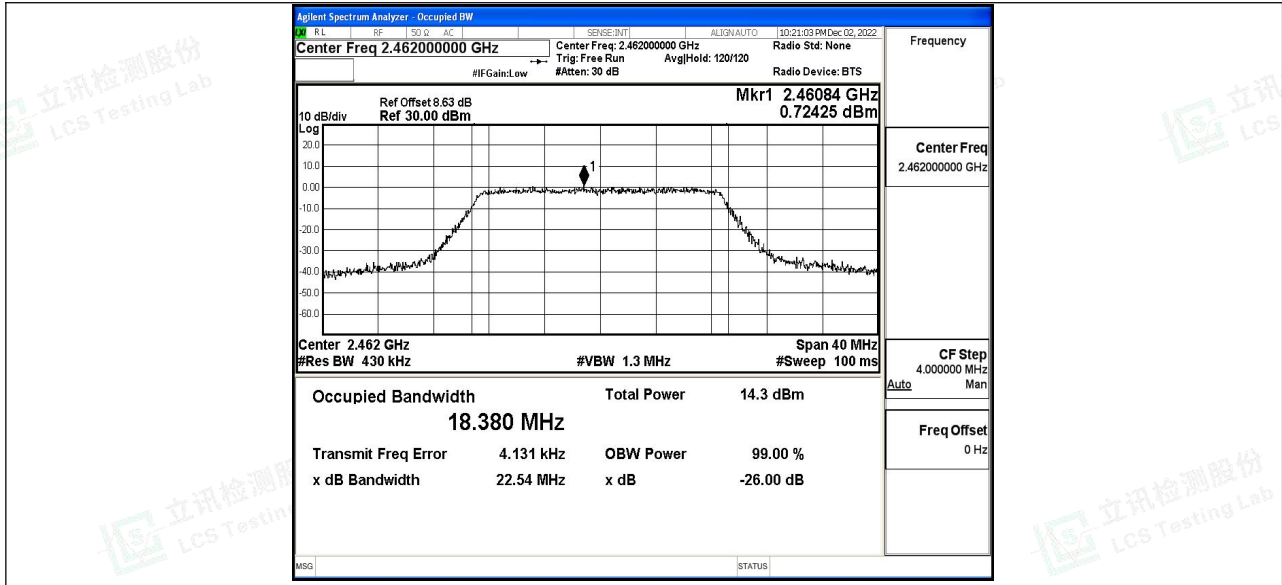
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11N20SISO	Ant1	2412	18.310	2402.8520	2421.1620	---	---
		2437	18.350	2427.8264	2446.1764	---	---
		2462	18.380	2452.8141	2471.1941	---	---





### Test Graphs







### A.3 Maximum conducted output power

#### Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Power [dBm]	Conducted Limit[dBm]	Verdict
11N20SISO	Ant1	2412	16.79	≤30.00	PASS
		2437	16.82	≤30.00	PASS
		2462	16.75	≤30.00	PASS







### A.4 Maximum power spectral density

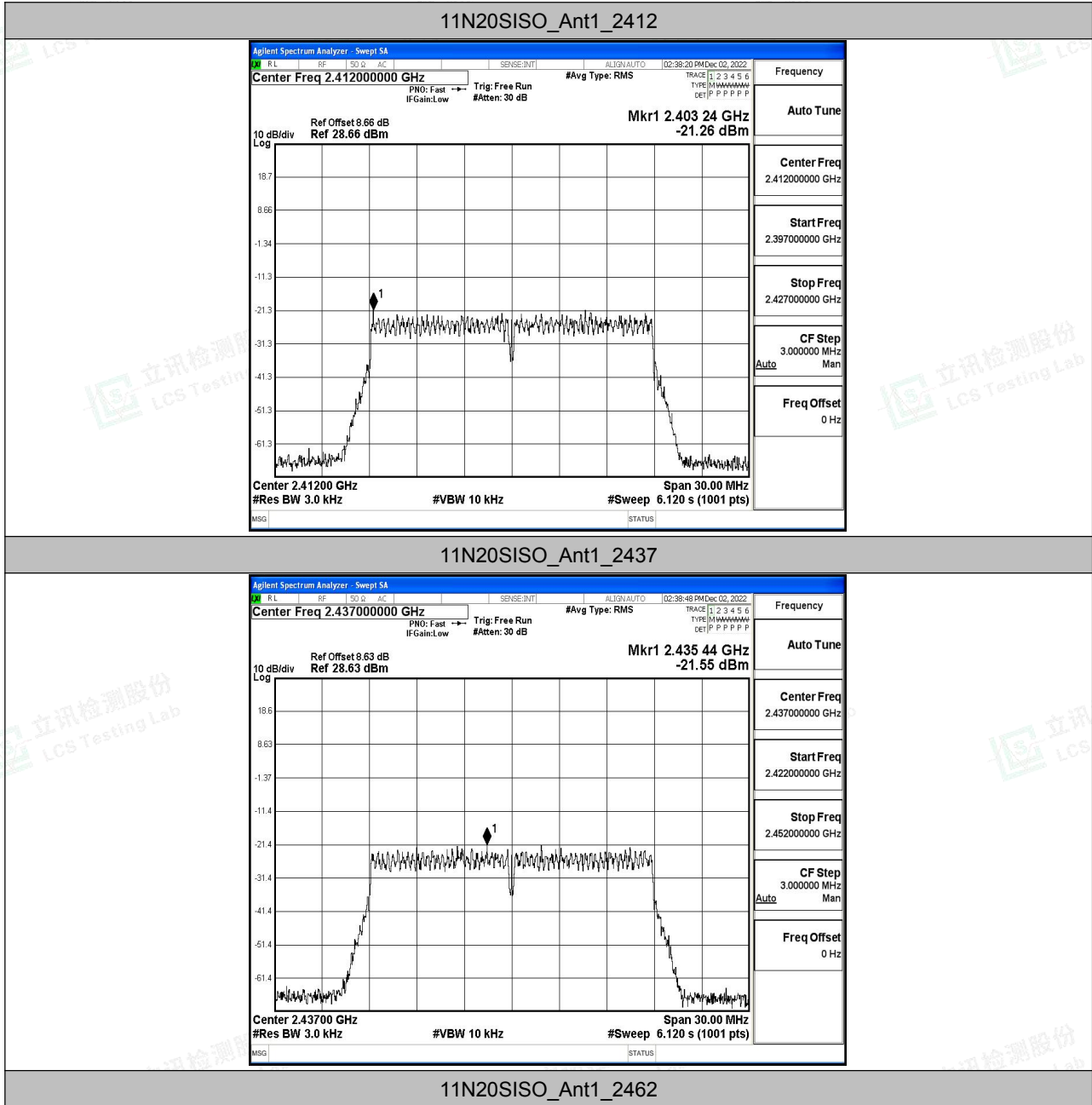
#### Test Result

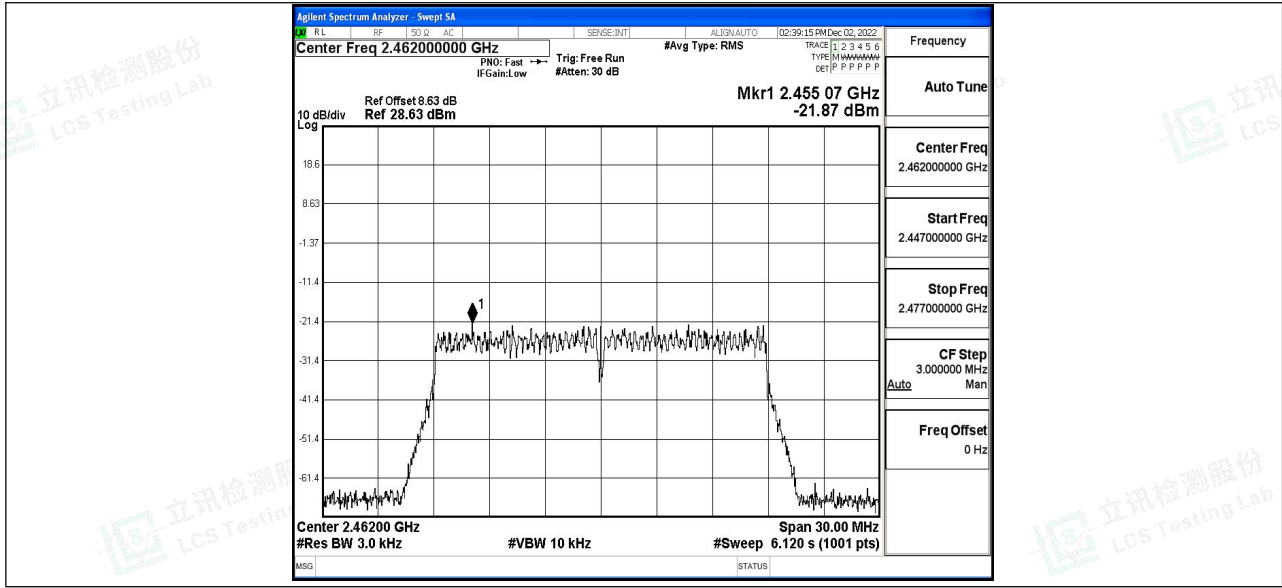
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Gain [dBi]	EIRP [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11N20SISO	Ant1	2412	-21.26	≤8.00	3.0	-18.26	---	PASS
		2437	-21.55	≤8.00	3.0	-18.55	---	PASS
		2462	-21.87	≤8.00	3.0	-18.87	---	PASS





### Test Graphs







## A.5 Band edge measurements

### Test Result

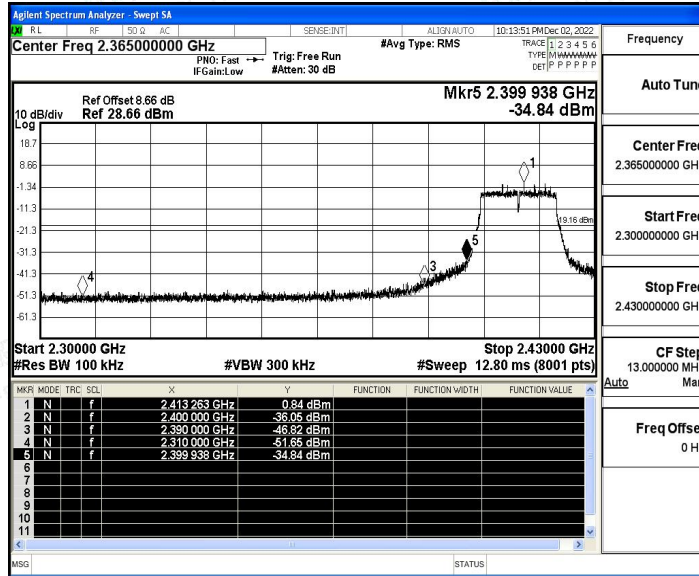
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	Ant1	Low	2412	0.84	-34.84	≤-19.16	PASS
		High	2462	-2.65	-45.32	≤-22.65	PASS



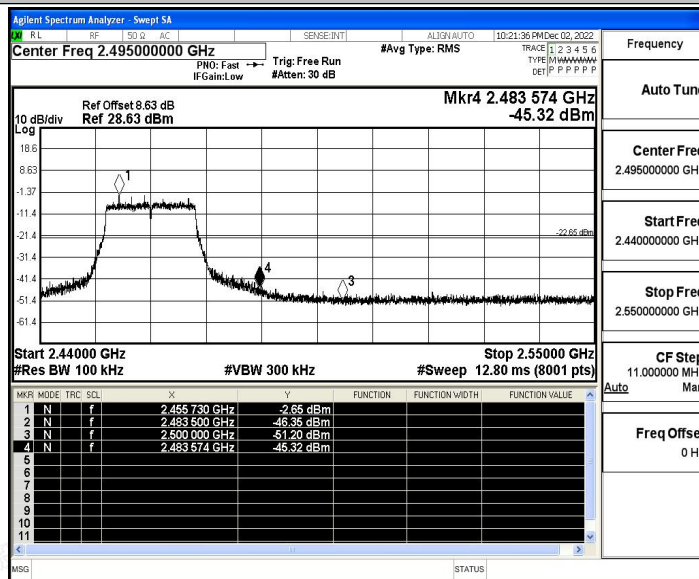


### Test Graphs

#### 11N20SISO\_Ant1\_Low\_2412



#### 11N20SISO\_Ant1\_High\_2462





### A.6 Conducted Spurious Emission

#### Test Result

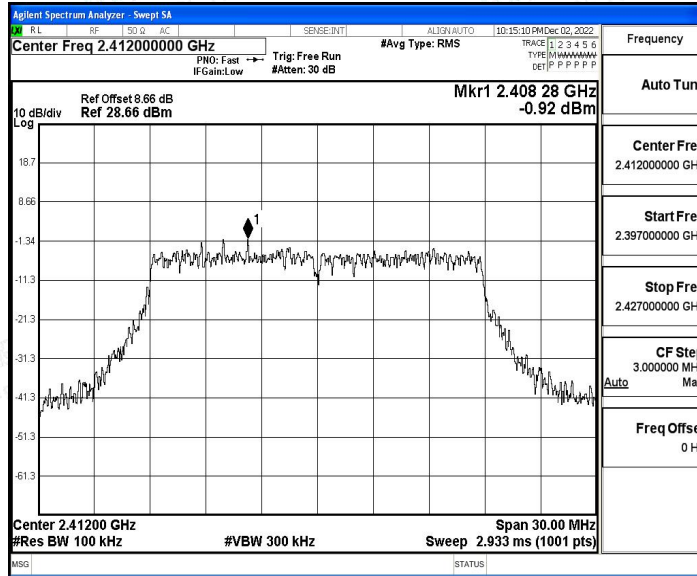
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11N20SISO	Ant1	2412	Reference	-0.92	-0.92	---	PASS
			30~1000	-0.92	-60.06	≤-20.92	PASS
			1000~26500	-0.92	-46.28	≤-20.92	PASS
		2437	Reference	-4.44	-4.44	---	PASS
			30~1000	-4.44	-60.7	≤-24.44	PASS
			1000~26500	-4.44	-46.17	≤-24.44	PASS
		2462	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-60.43	≤-23.14	PASS
			1000~26500	-3.14	-46.37	≤-23.14	PASS



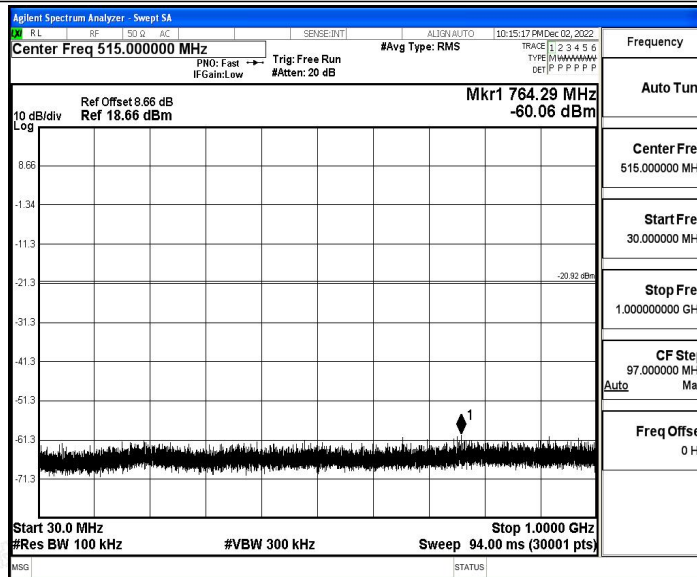


### Test Graphs

11N20SISO\_Ant1\_2412\_0~Reference

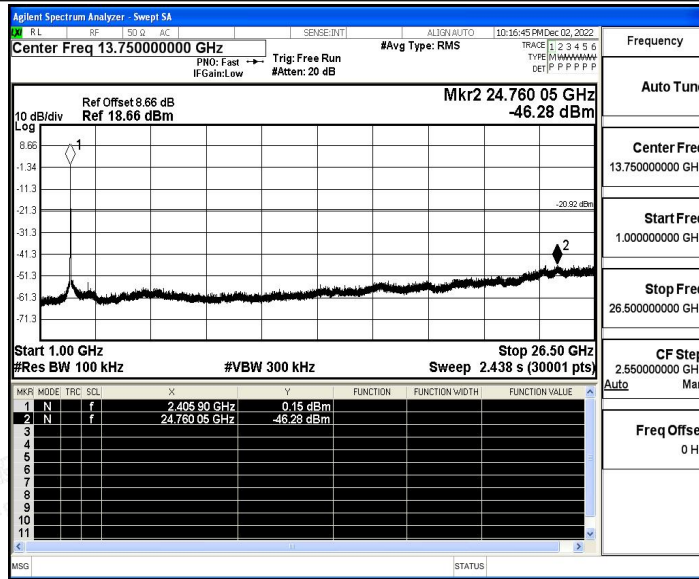


11N20SISO\_Ant1\_2412\_30~1000

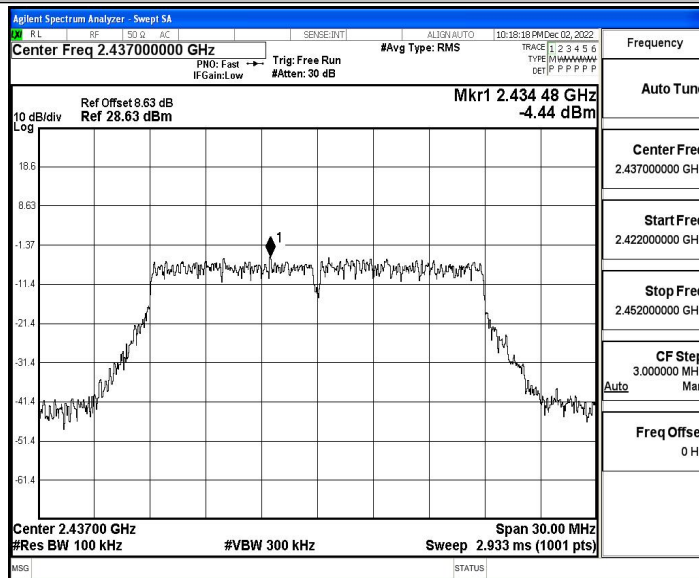


11N20SISO\_Ant1\_2412\_1000~26500

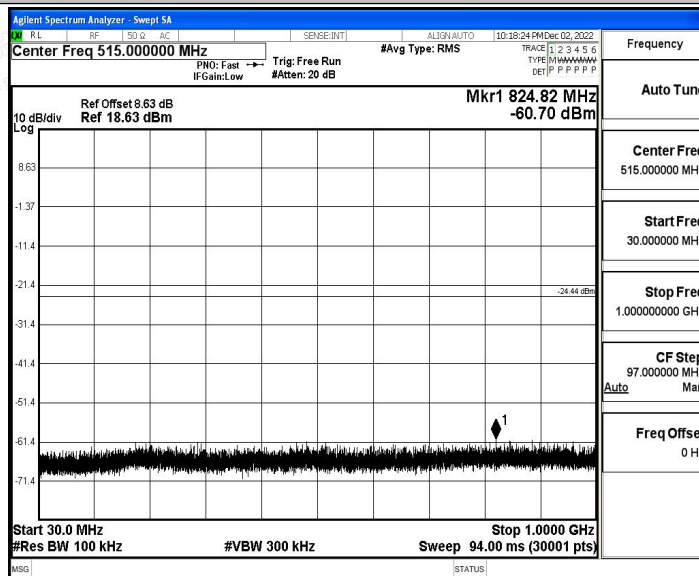




11N20SISO\_Ant1\_2437\_0~Reference



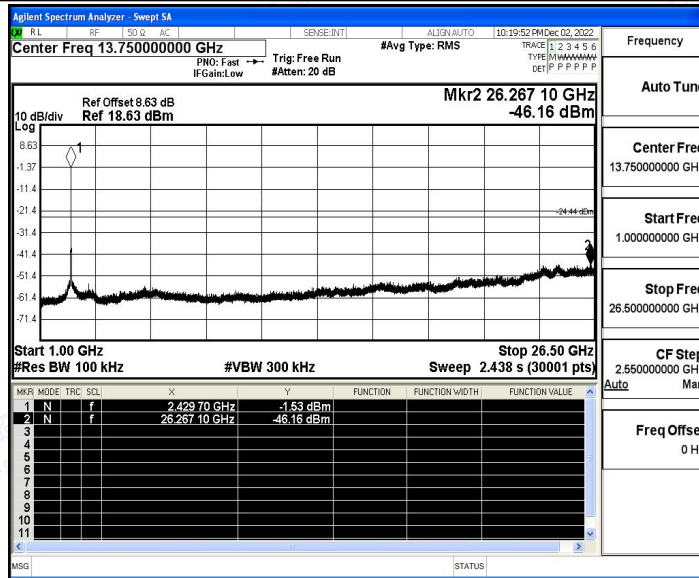
11N20SISO\_Ant1\_2437\_30~1000



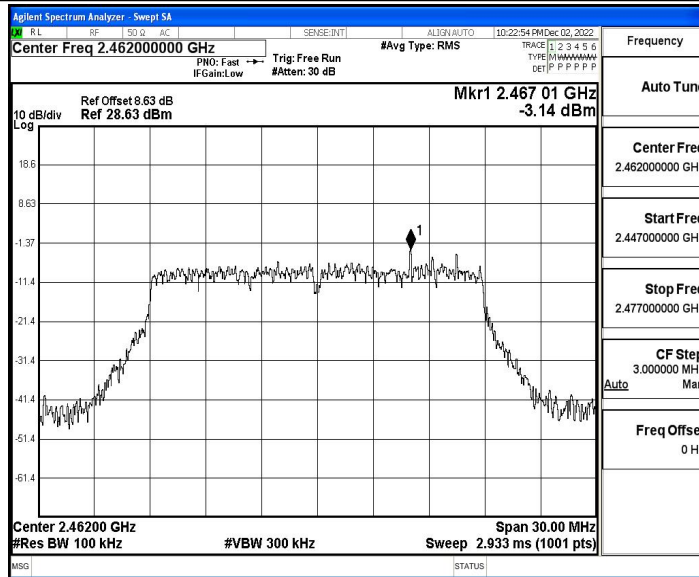




11N20SISO\_Ant1\_2437\_1000~26500

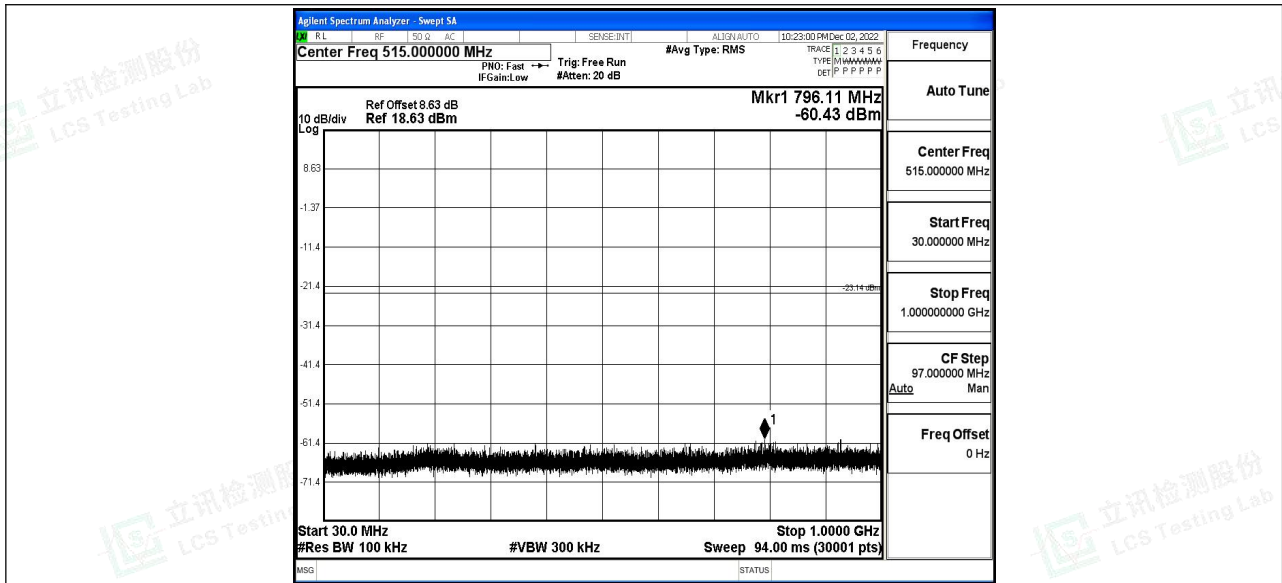


11N20SISO\_Ant1\_2462\_0~Reference

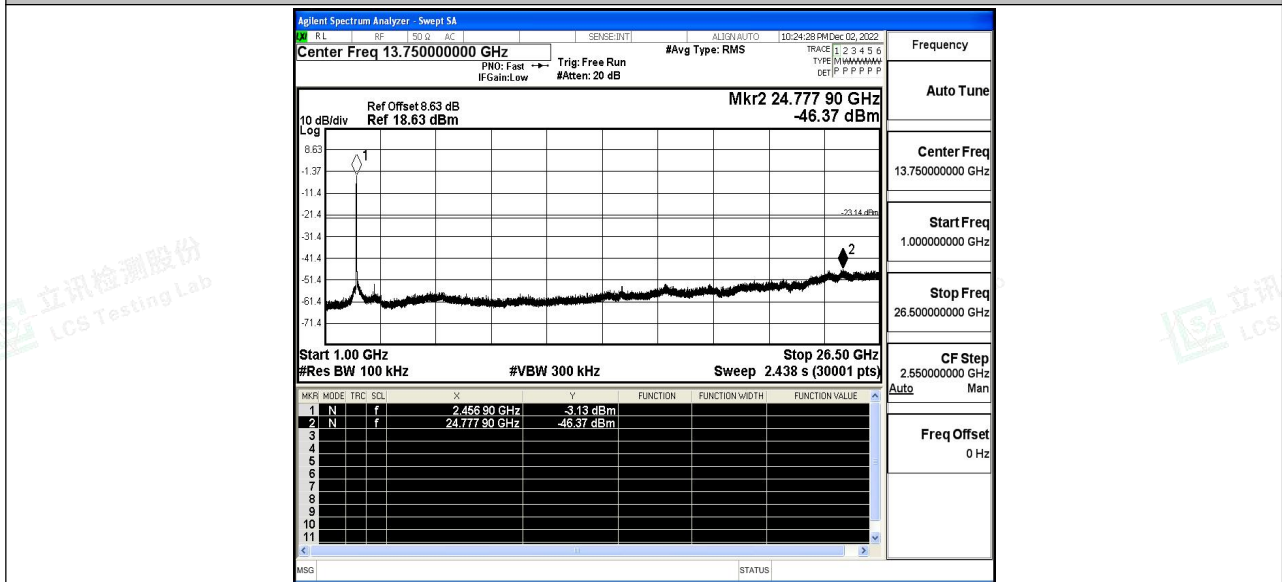


11N20SISO\_Ant1\_2462\_30~1000





11N20SISO\_Ant1\_2462\_1000~26500





## A.7 Duty Cycle

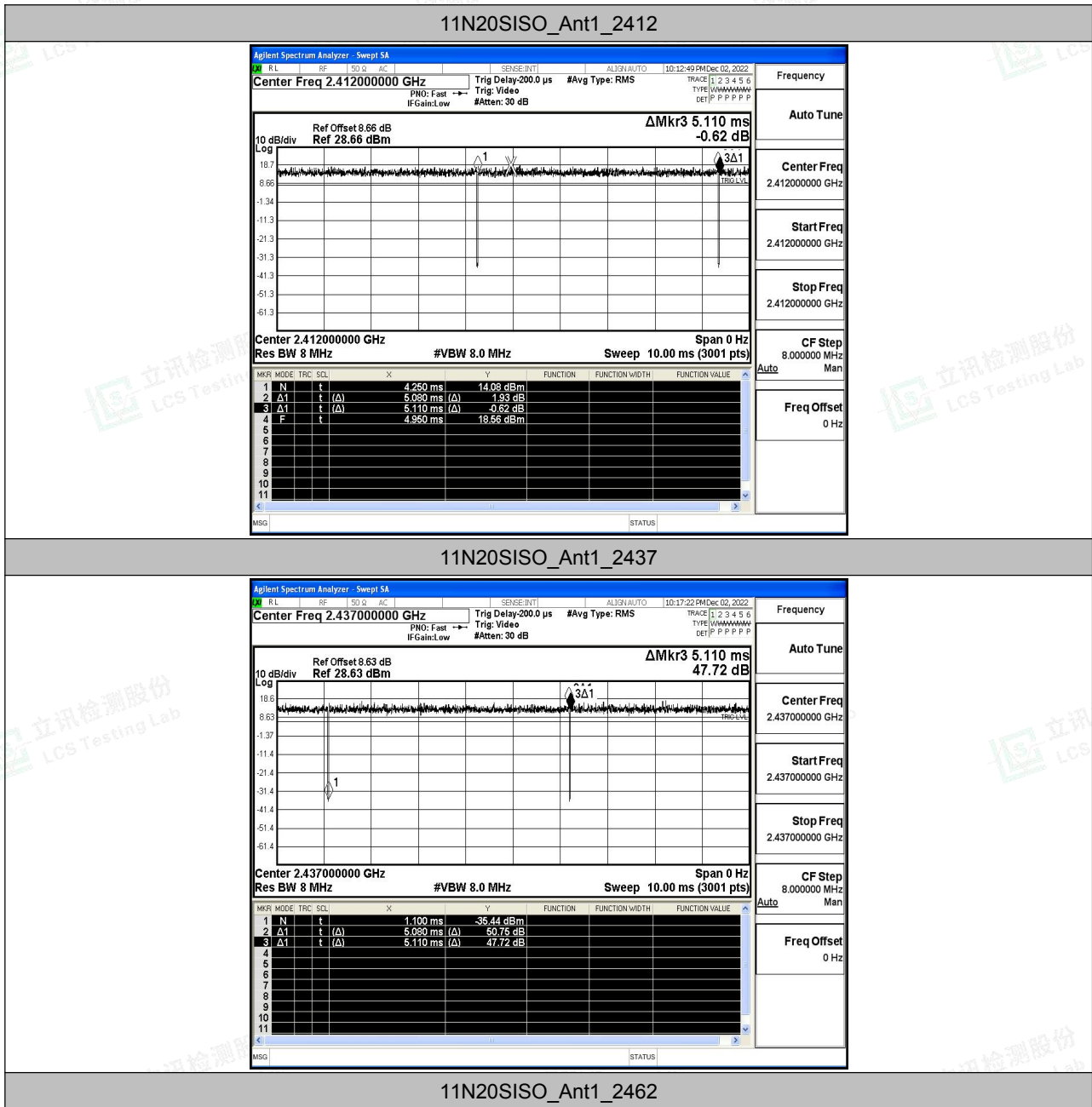
### Test Result

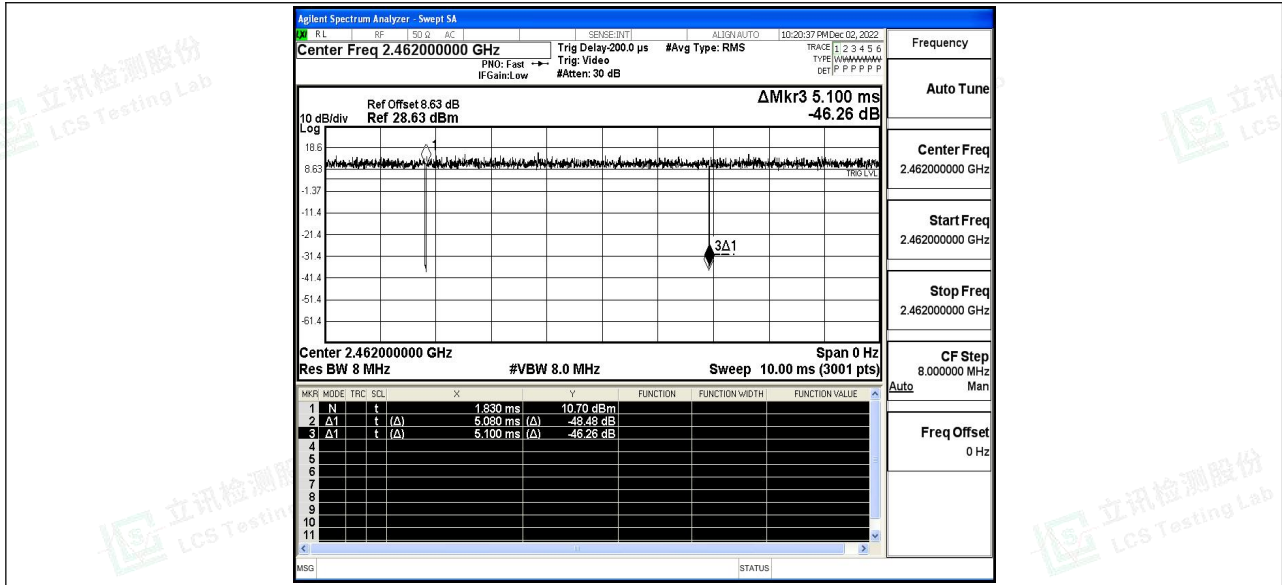
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	1/T(kHz)
11N20SISO	Ant1	2412	5.08	5.11	99.41	0.03	0.20
		2437	5.08	5.11	99.41	0.03	0.20
		2462	5.08	5.10	99.61	0.02	0.20





### Test Graphs







## A.8 Emissions in Restricted Bands

### Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dBi]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11N20SISO	Ant1	Low	2412	AV	2310.000	-58.46	3.0	≤-41.20	39.80	≤54	PASS
				AV	2389.830	-56.13	3.0	≤-41.20	42.13	≤54	PASS
				AV	2390.000	-56.18	3.0	≤-41.20	42.08	≤54	PASS
				Peak	2310.000	-48.43	3.0	≤-21.20	49.83	≤74	PASS
				Peak	2387.750	-44.56	3.0	≤-21.20	53.70	≤74	PASS
				Peak	2390.000	-44.65	3.0	≤-21.20	53.61	≤74	PASS
		High	2462	AV	2483.500	-56.24	3.0	≤-41.20	42.02	≤54	PASS
				AV	2484.660	-56.19	3.0	≤-41.20	42.07	≤54	PASS
				AV	2500.000	-56.7	3.0	≤-41.20	41.56	≤54	PASS
				Peak	2483.500	-45.69	3.0	≤-21.20	52.57	≤74	PASS
				Peak	2483.670	-44.75	3.0	≤-21.20	53.51	≤74	PASS
				Peak	2500.000	-45.45	3.0	≤-21.20	52.81	≤74	PASS

#### Note:

- The Antenna Gain is compensated in the graph.
- 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.



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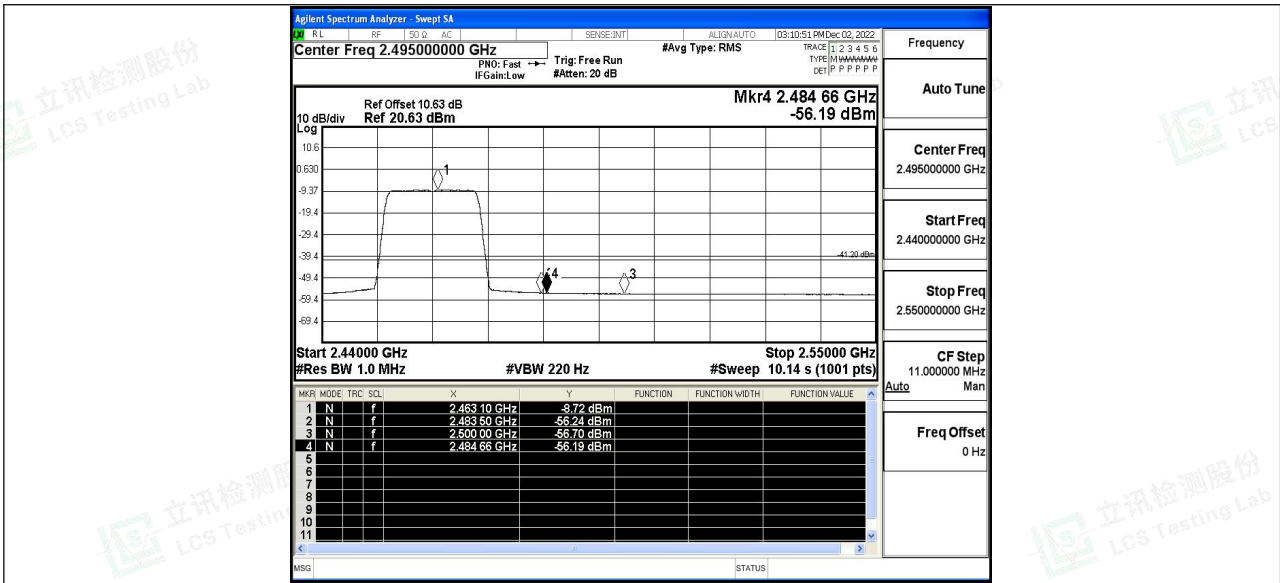
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



### Test Graphs





11N20SISO\_Ant1\_High\_2462\_Peak

