



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: earbuds

Test Model: PALL B-Max

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu





### A.1 20dB Emission Bandwidth

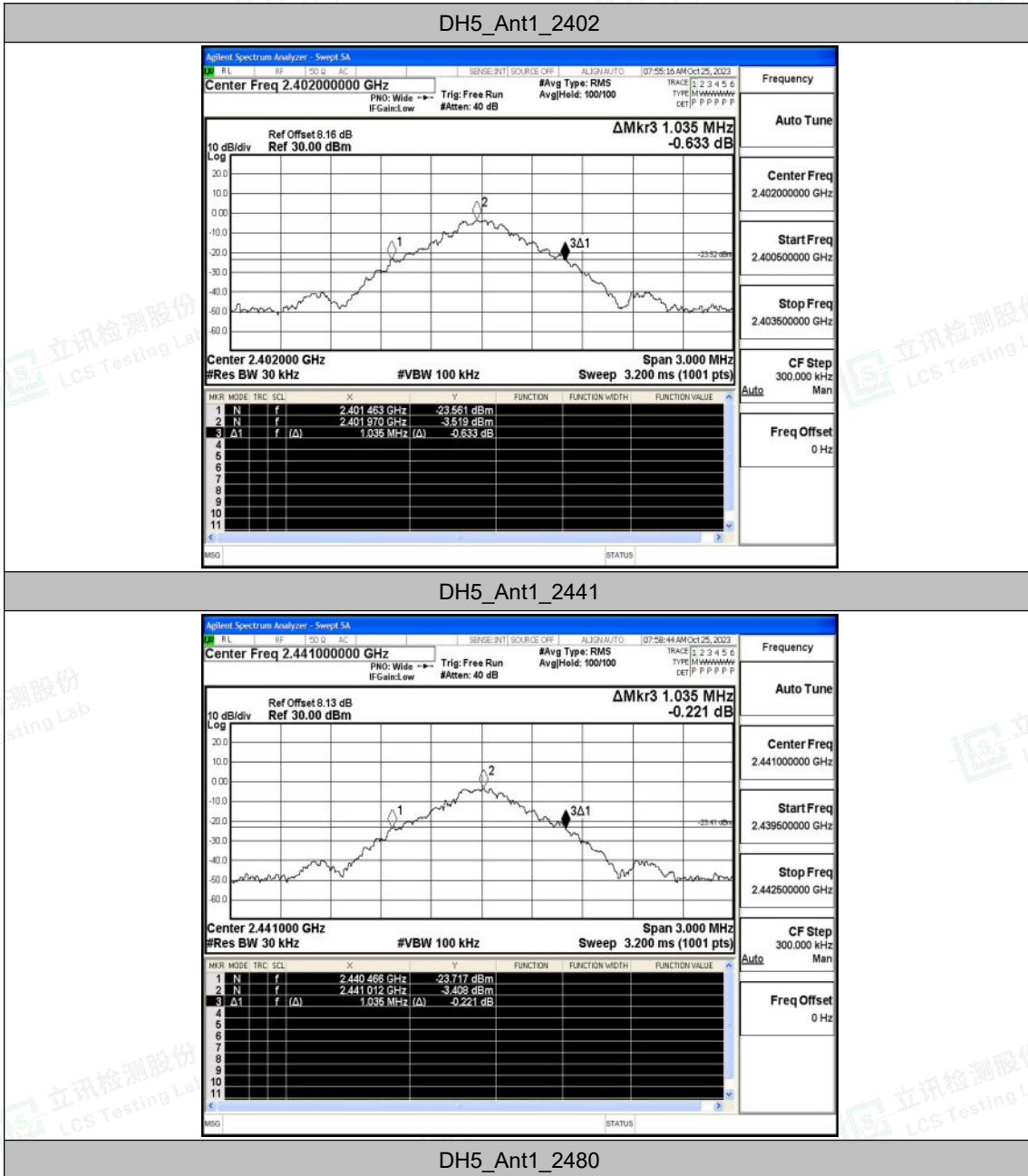
#### Test Result

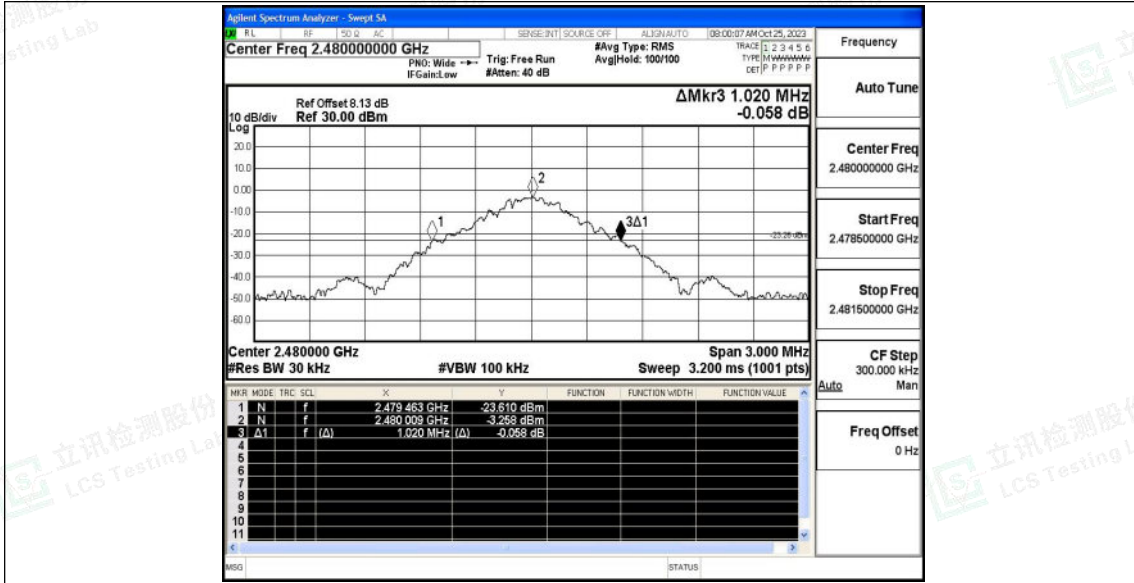
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.463	2402.498	---	---
		2441	1.035	2440.466	2441.501	---	---
		2480	1.020	2479.463	2480.483	---	---
2DH5	Ant1	2402	1.329	2401.325	2402.654	---	---
		2441	1.287	2440.358	2441.645	---	---
		2480	1.299	2479.352	2480.651	---	---



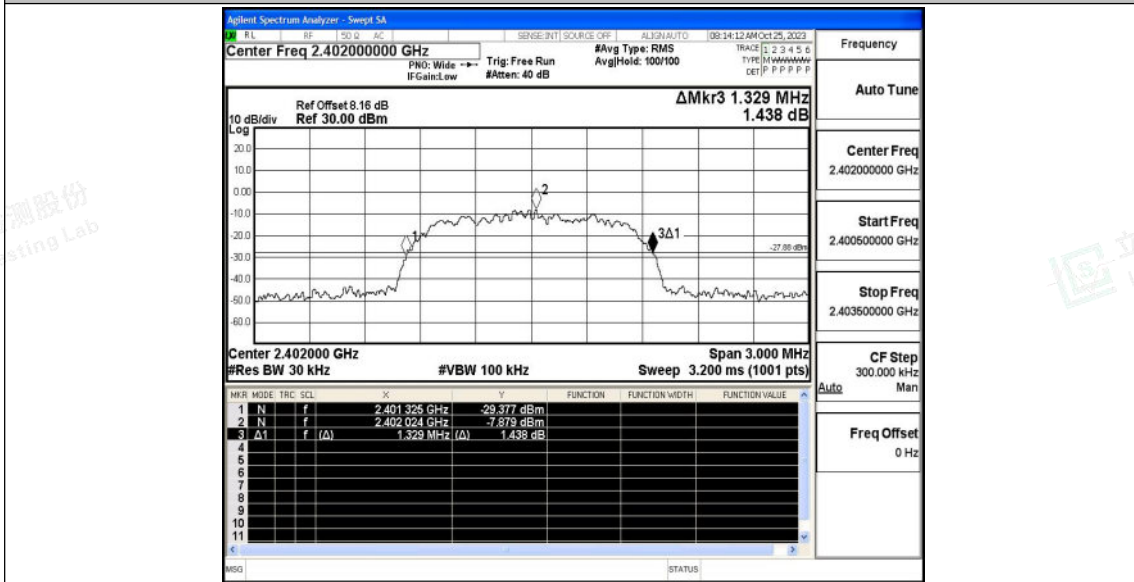


### Test Graphs



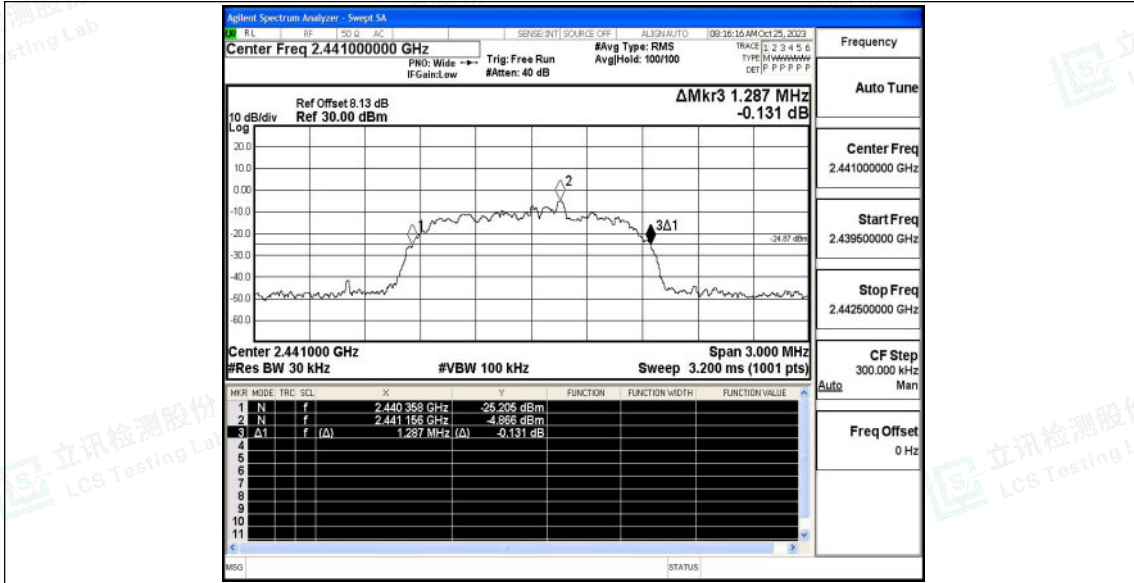


2DH5\_Ant1\_2402

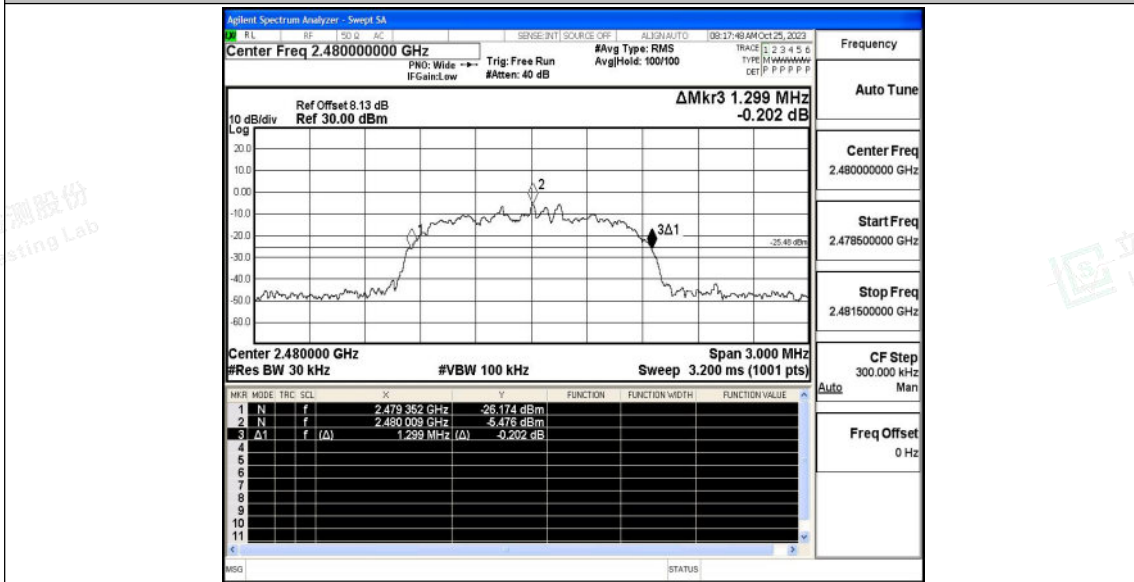


2DH5\_Ant1\_2441





2DH5\_Ant1\_2480



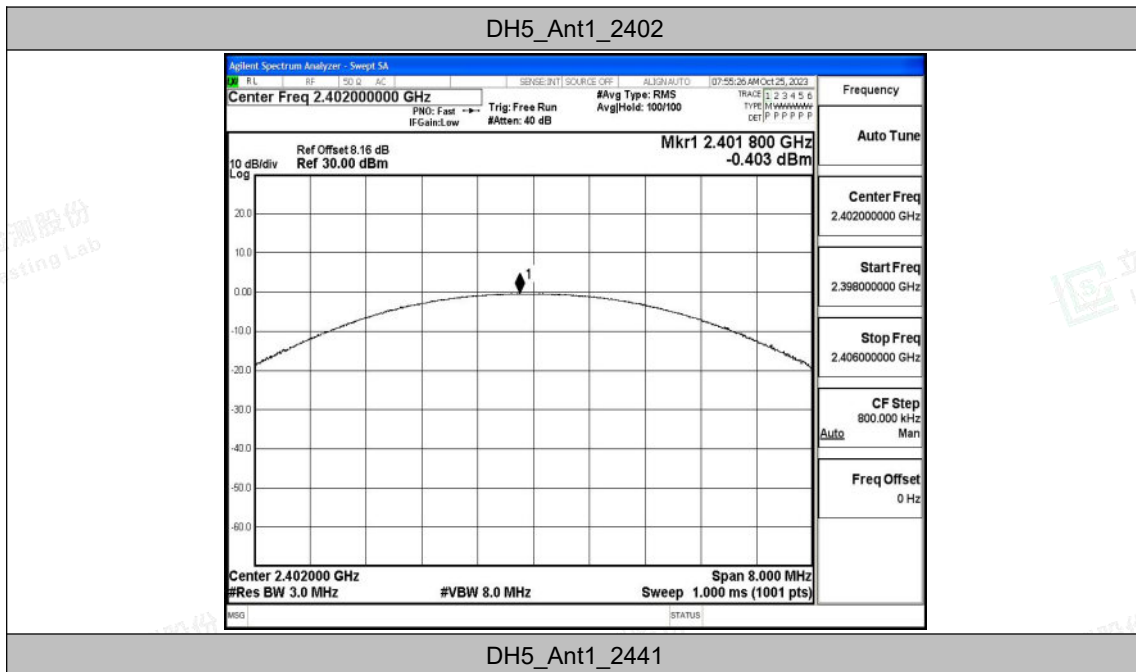


## A.2 Maximum Peak Conducted Output Power

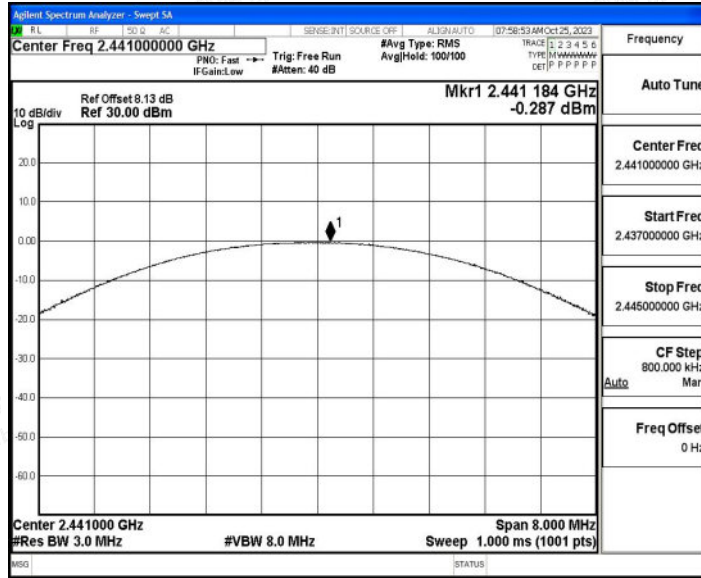
### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.4	≤21	PASS
		2441	-0.29	≤21	PASS
		2480	-0.19	≤21	PASS
2DH5	Ant1	2402	-0.88	≤21	PASS
		2441	-0.61	≤21	PASS
		2480	-0.57	≤21	PASS

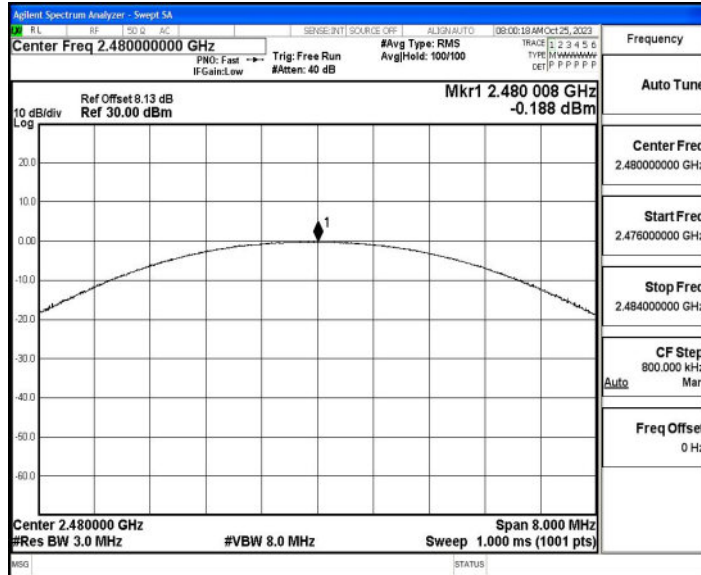
### Test Graphs





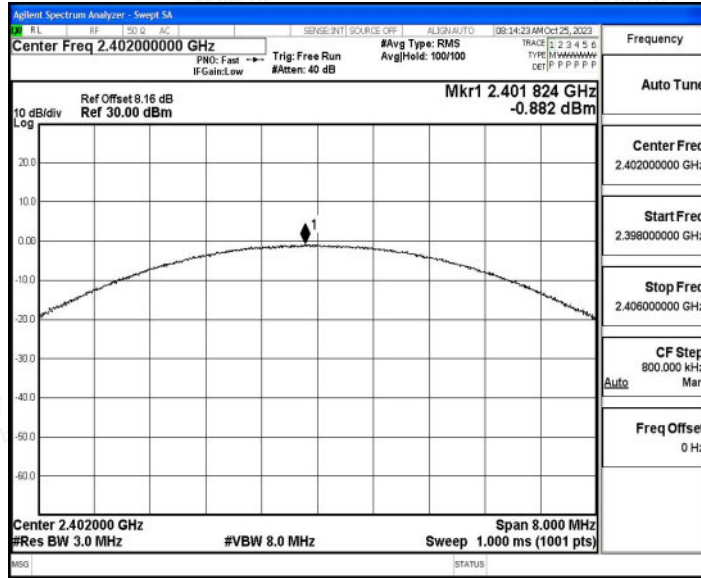


DH5\_Ant1\_2480

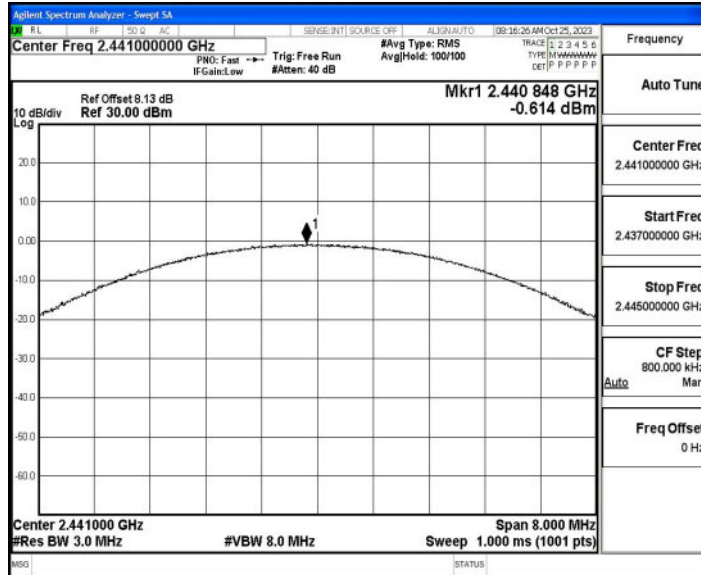


2DH5\_Ant1\_2402





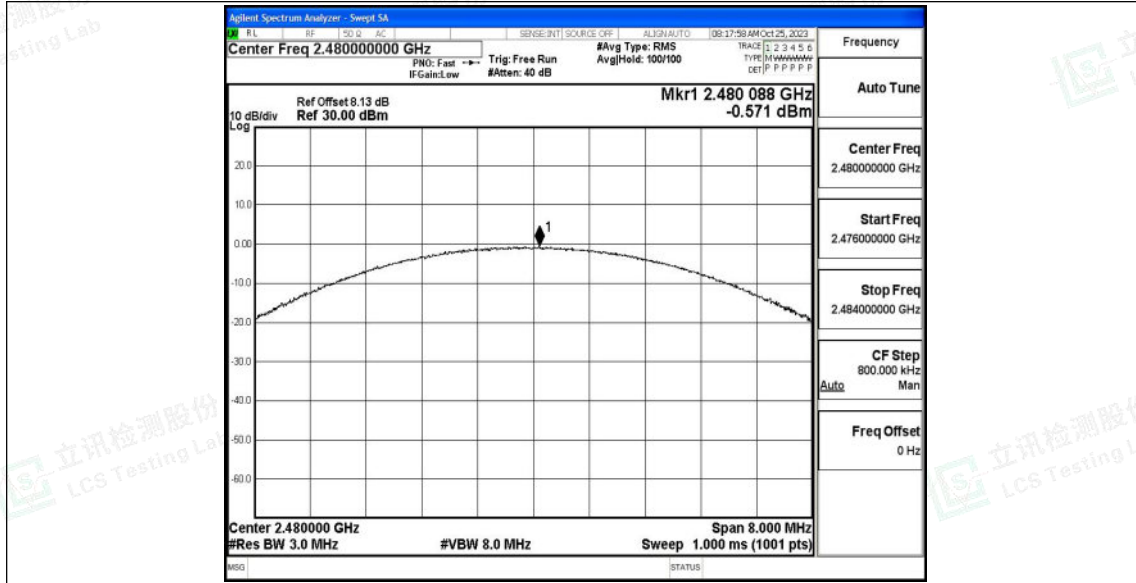
2DH5\_Ant1\_2441



2DH5\_Ant1\_2480









### A.3 Carrier frequency separation

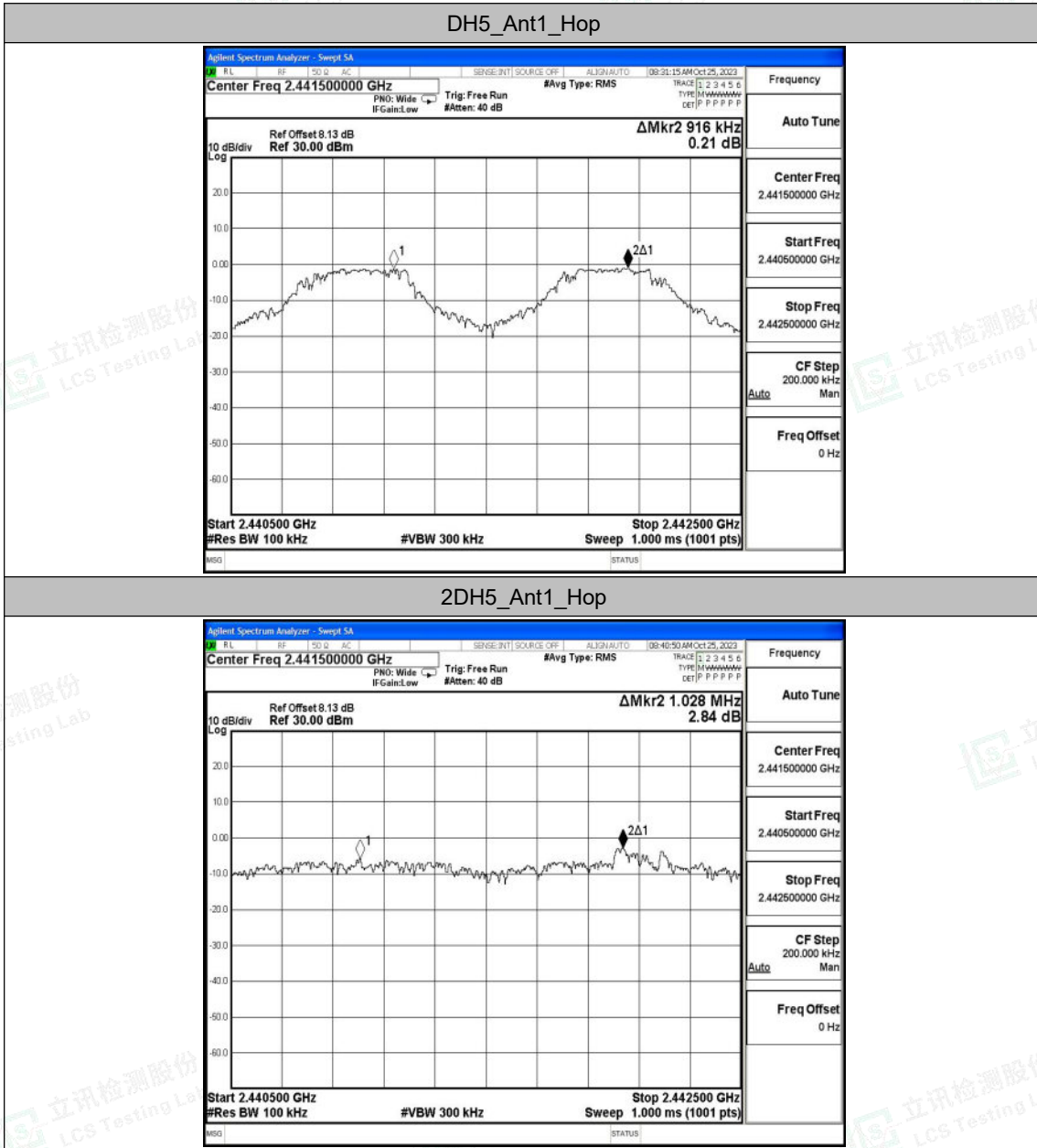
#### Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.916	≥0.690	PASS
2DH5	Ant1	Hop	1.028	≥0.886	PASS





### Test Graphs





## A.4 Time of occupancy

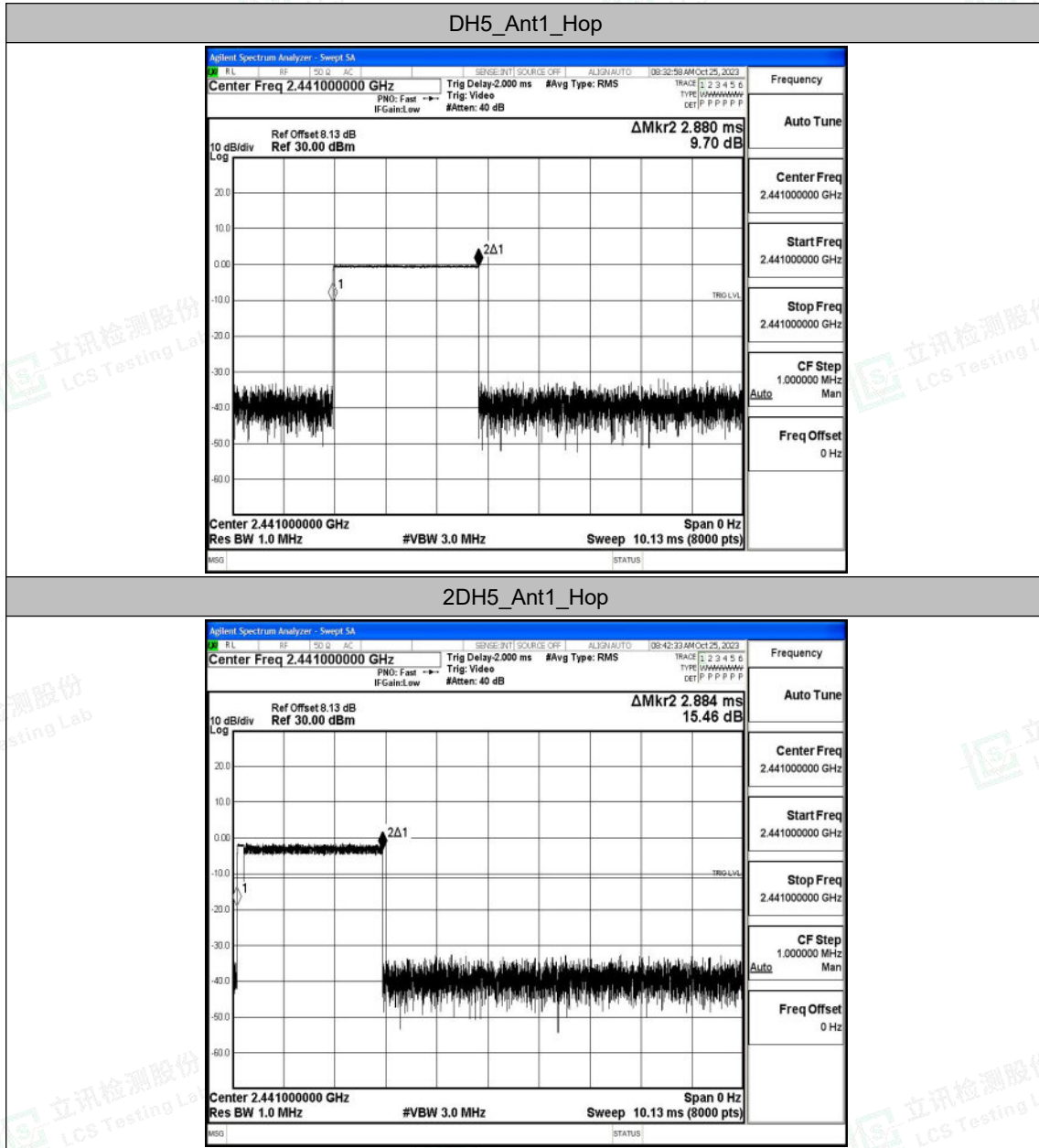
### Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS





### Test Graphs





## A.5 Number of hopping channels

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS







### Test Graphs





## A.6 Band edge measurements

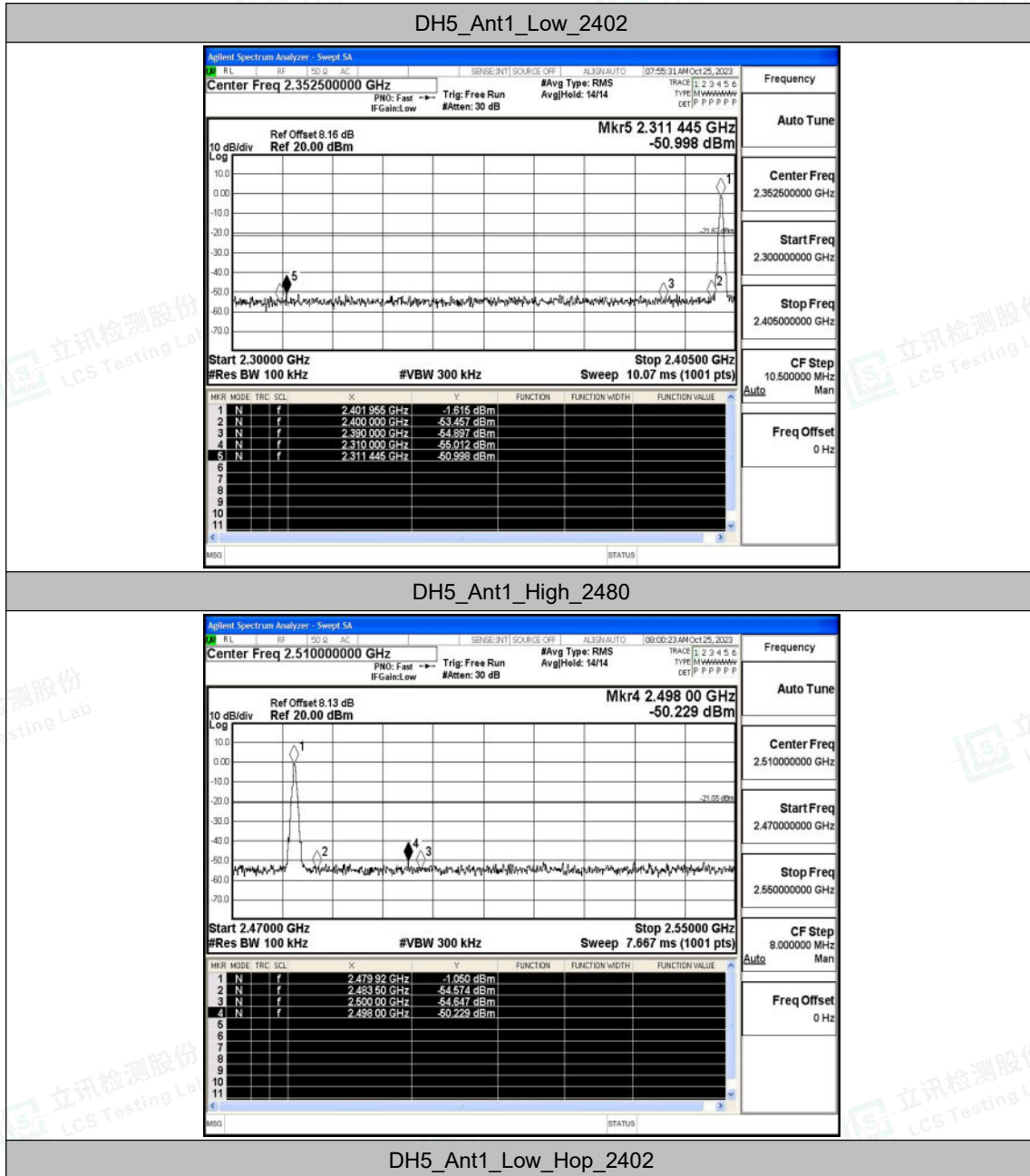
### Test Result

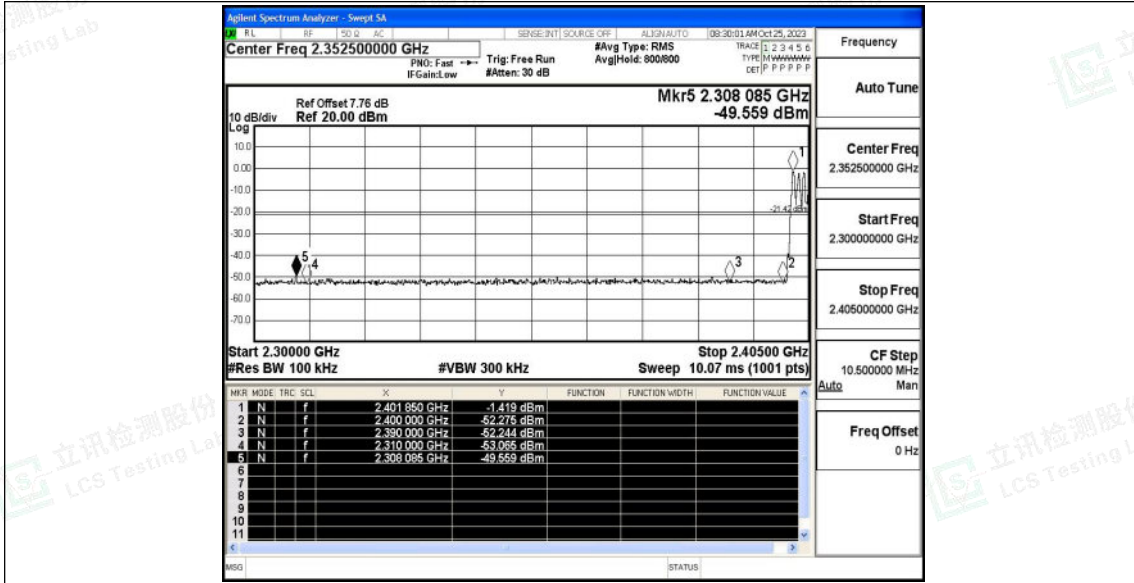
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.62	-51	≤-21.62	PASS
		High	2480	-1.05	-50.23	≤-21.05	PASS
		Low	Hop_2402	-1.42	-49.56	≤-21.42	PASS
		High	Hop_2480	-0.68	-49.78	≤-20.68	PASS
2DH5	Ant1	Low	2402	-5.89	-50.63	≤-25.89	PASS
		High	2480	-5.71	-50.41	≤-25.71	PASS
		Low	Hop_2402	-4.43	-49.24	≤-24.43	PASS
		High	Hop_2480	-1.88	-48.46	≤-21.88	PASS



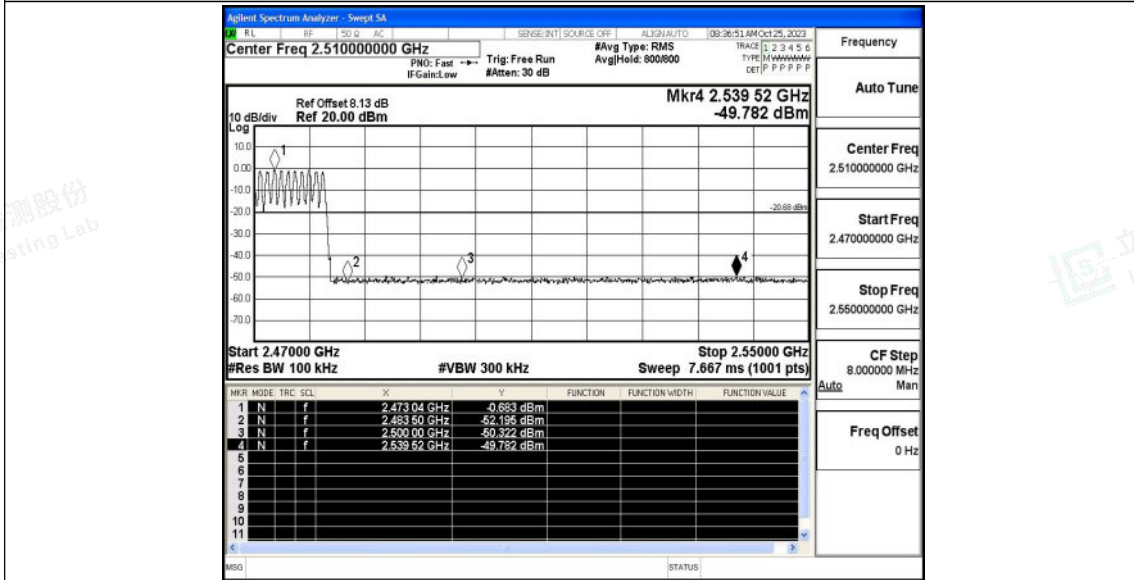


### Test Graphs



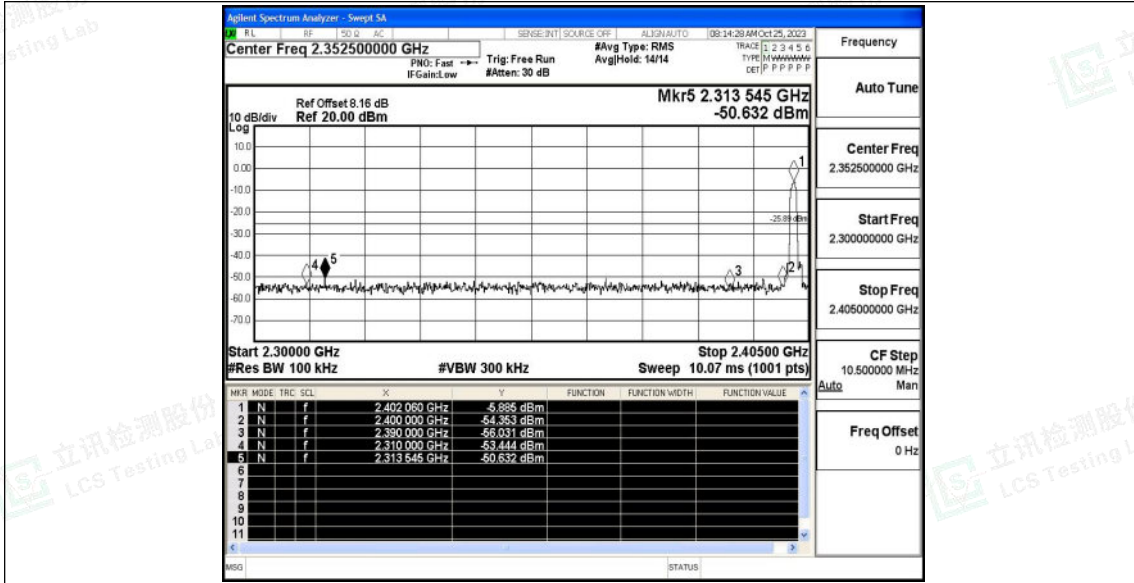


DH5\_Ant1\_High\_Hop\_2480

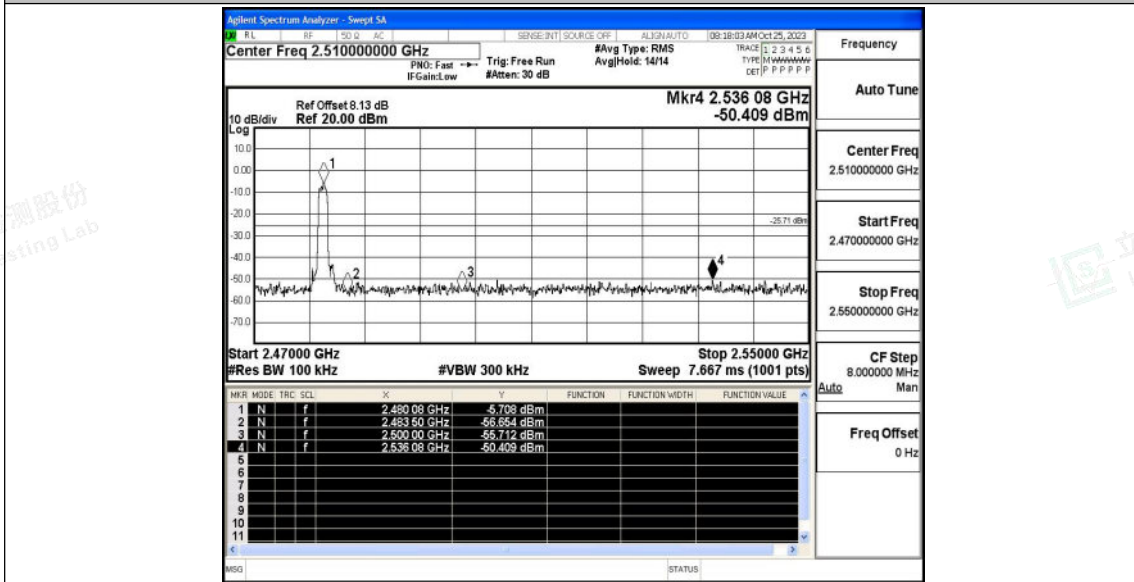


2DH5\_Ant1\_Low\_2402





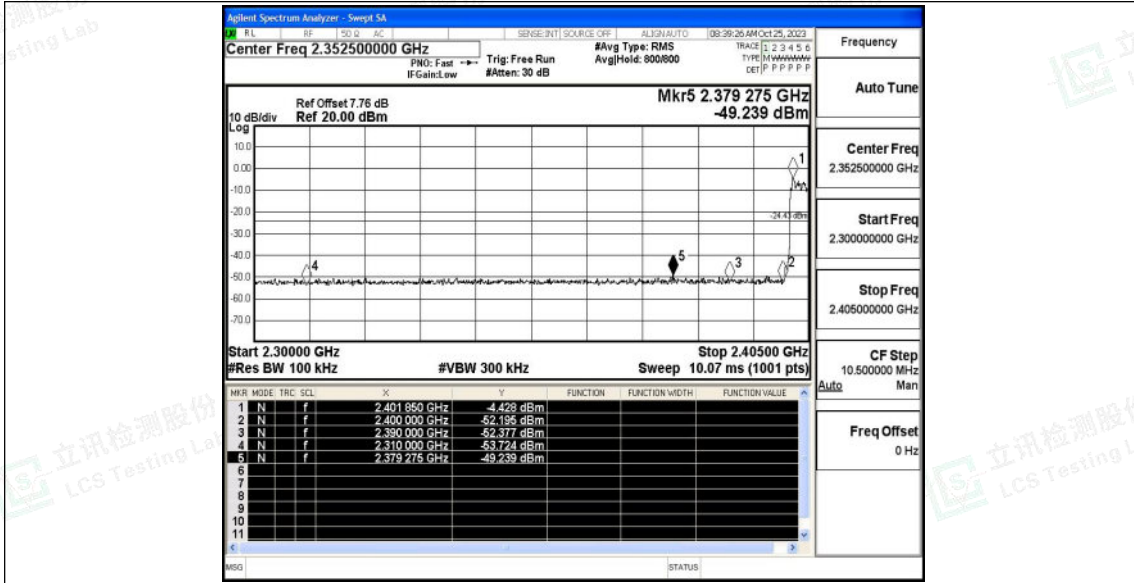
2DH5\_Ant1\_High\_2480



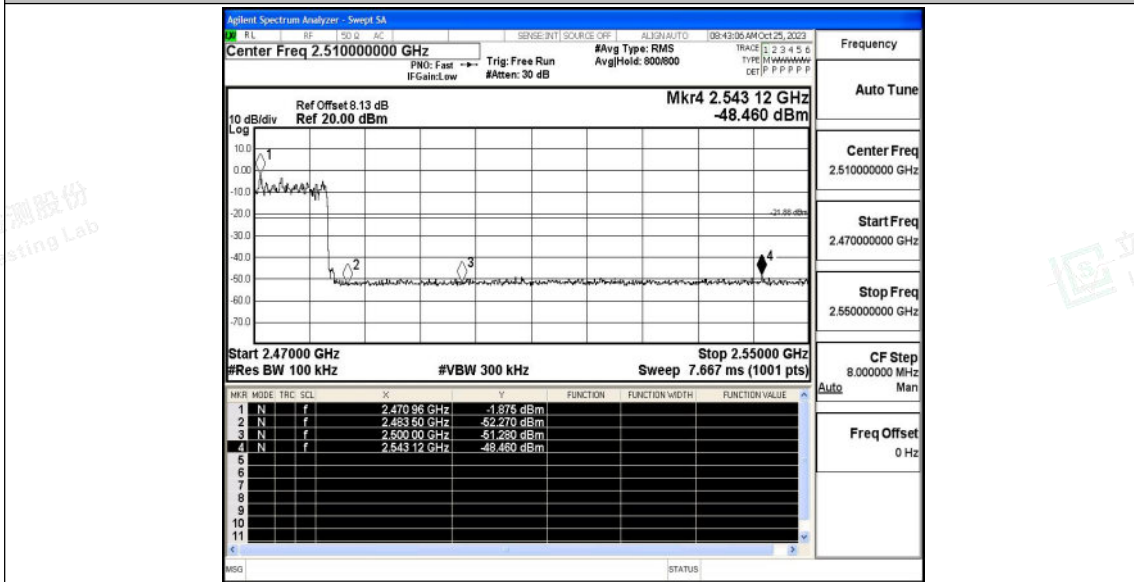
2DH5\_Ant1\_Low\_Hop\_2402







2DH5\_Ant1\_High\_Hop\_2480







## A.7 Conducted Spurious Emission

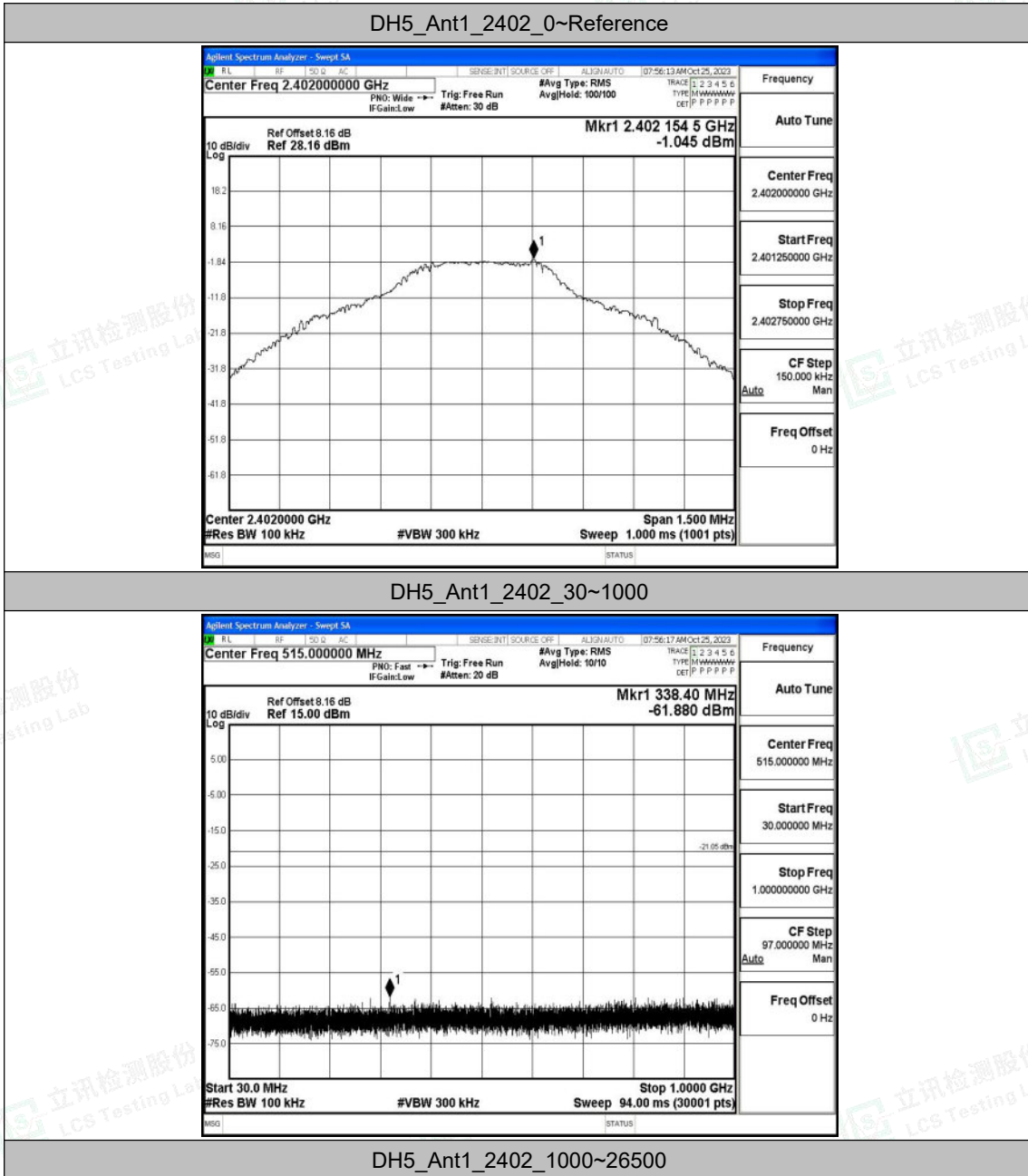
### Test Result

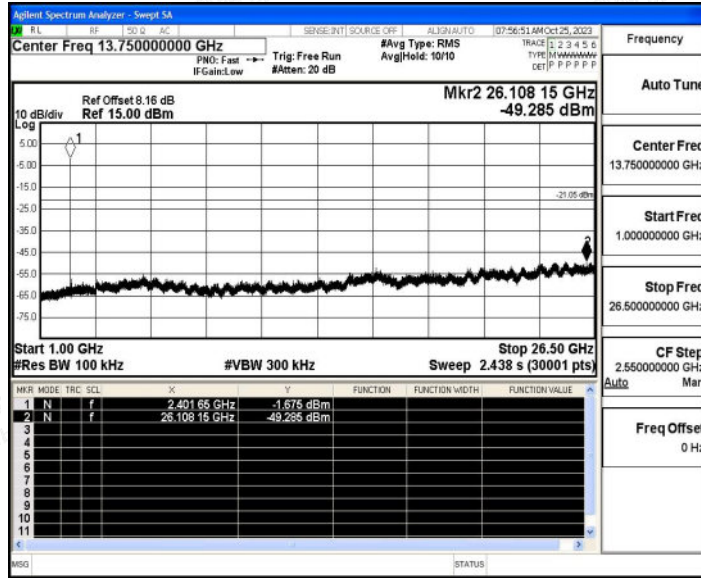
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-61.88	≤-21.05	PASS
			1000~26500	-1.05	-49.29	≤-21.05	PASS
		2441	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-61.86	≤-20.95	PASS
			1000~26500	-0.95	-49.07	≤-20.95	PASS
		2480	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-61.67	≤-21.03	PASS
			1000~26500	-1.03	-48.2	≤-21.03	PASS
2DH5	Ant1	2402	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-61.76	≤-22.26	PASS
			1000~26500	-2.26	-48.77	≤-22.26	PASS
		2441	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-60.95	≤-22.8	PASS
			1000~26500	-2.80	-48.07	≤-22.8	PASS
		2480	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-61.32	≤-22.09	PASS
			1000~26500	-2.09	-49.03	≤-22.09	PASS



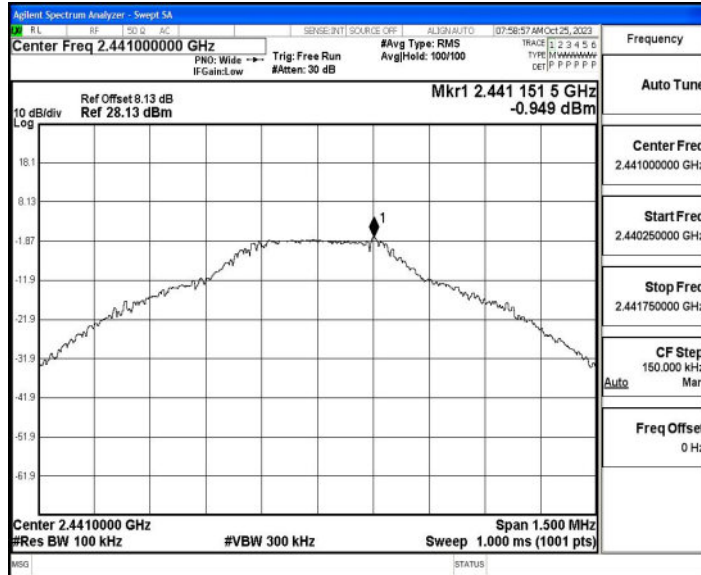


### Test Graphs



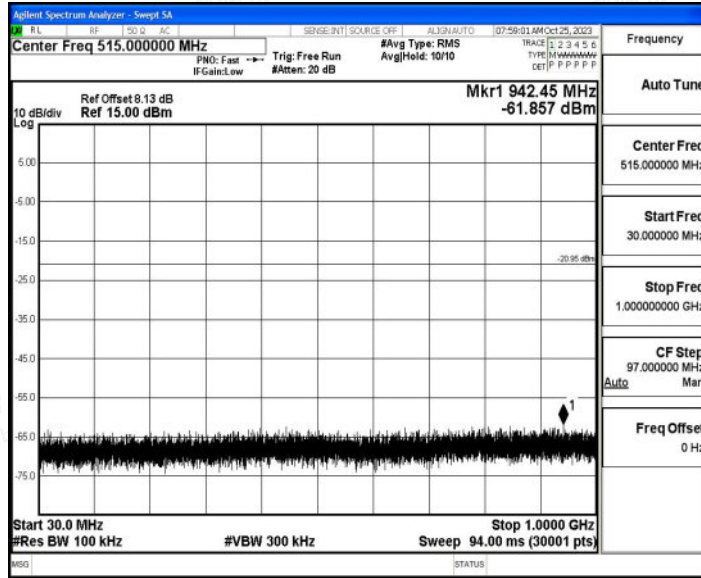


DH5\_Ant1\_2441\_0~Reference

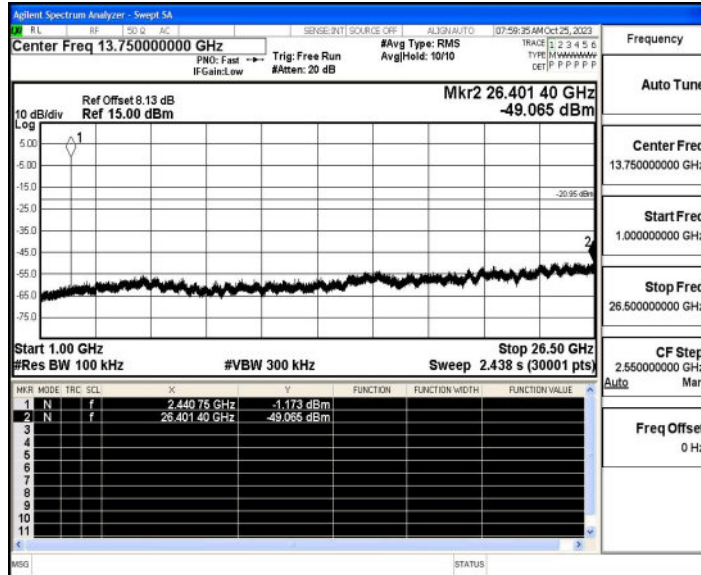


DH5\_Ant1\_2441\_30~1000



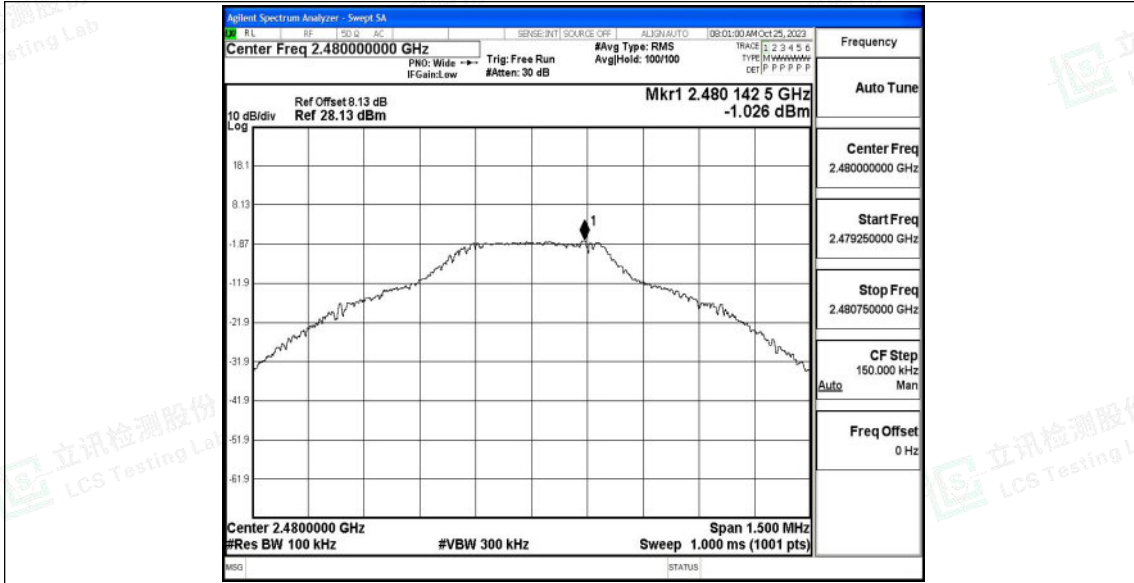


DH5\_Ant1\_2441\_1000~26500

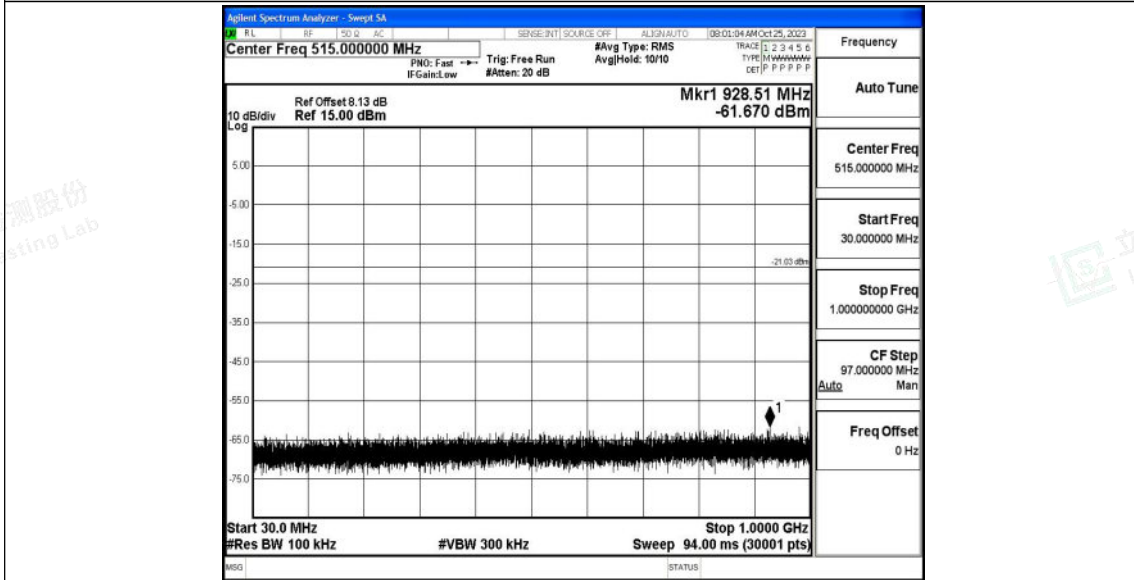


DH5\_Ant1\_2480\_0~Reference





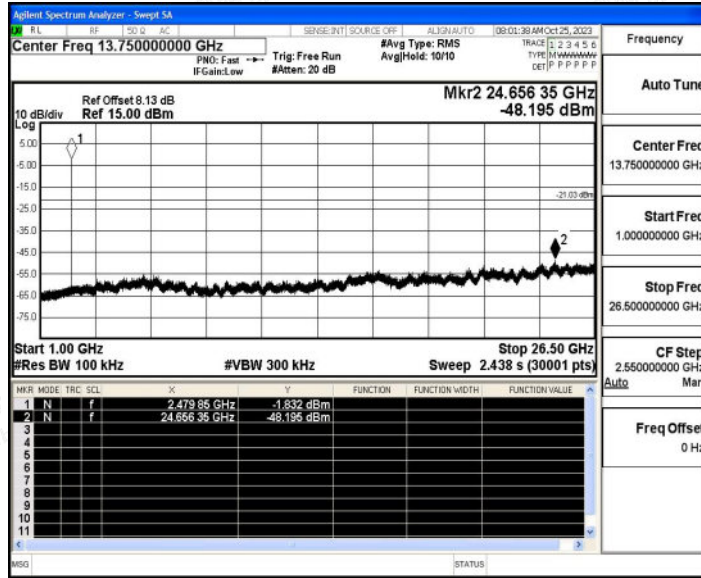
DH5\_Ant1\_2480\_30~1000



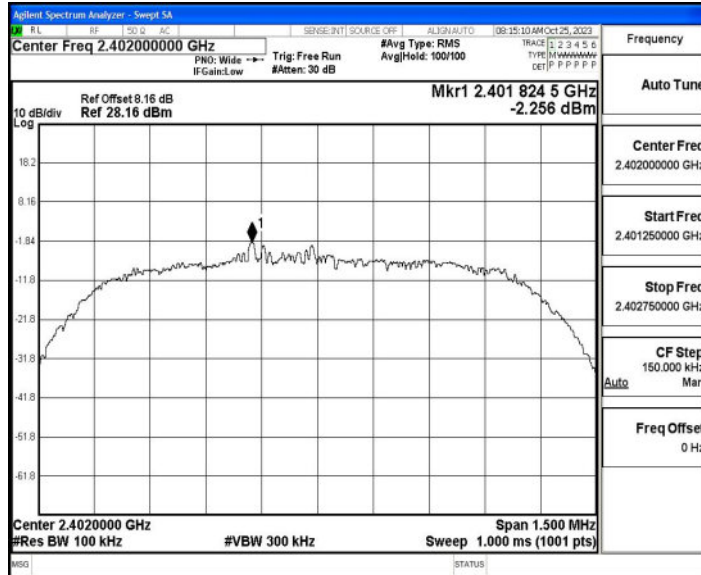
DH5\_Ant1\_2480\_1000~26500







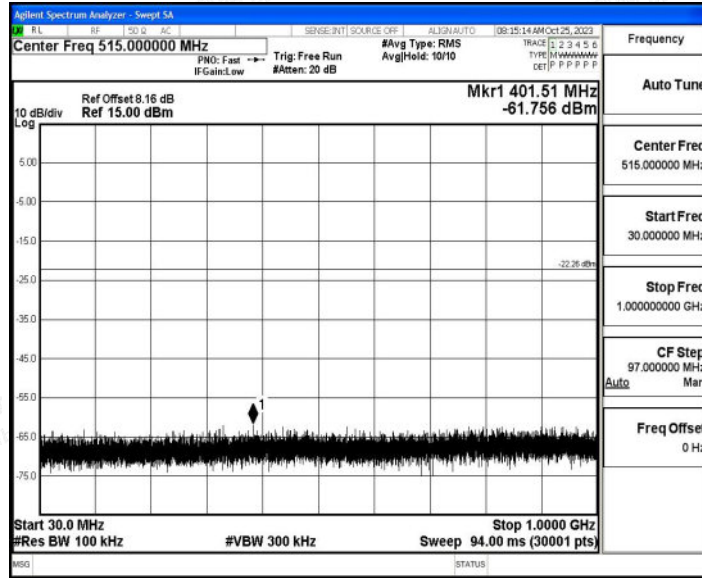
2DH5\_Ant1\_2402\_0~Reference



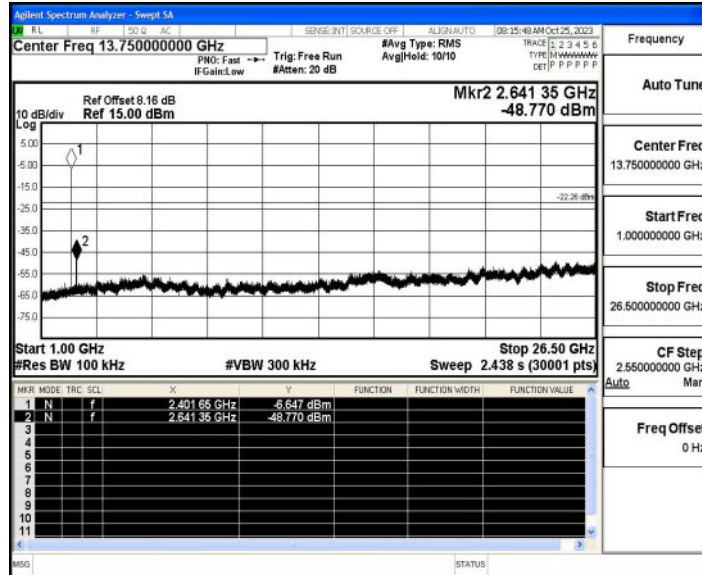
2DH5\_Ant1\_2402\_30~1000





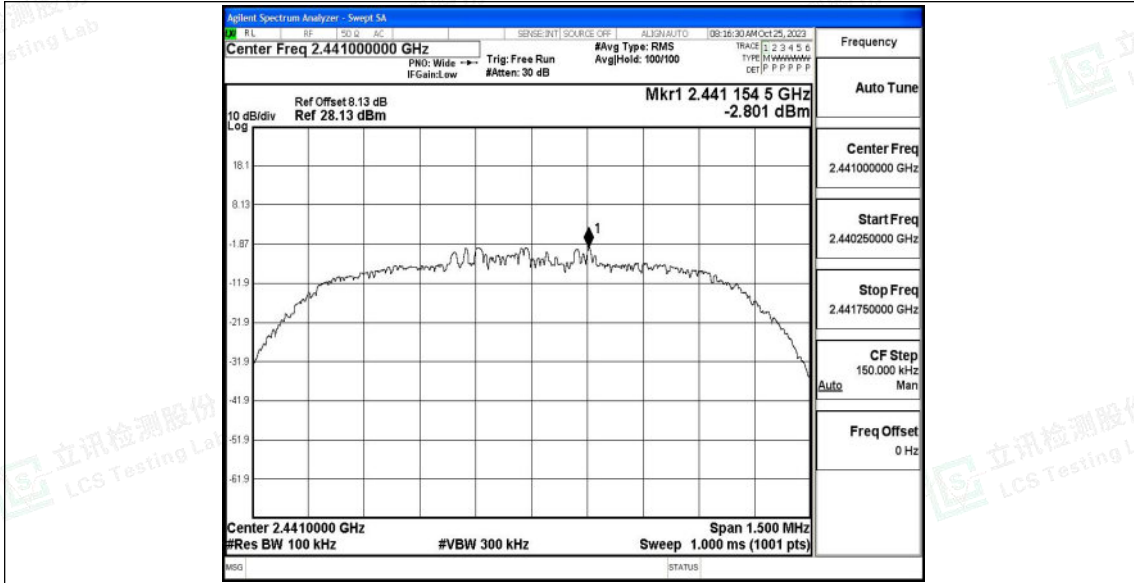


2DH5\_Ant1\_2402\_1000~26500

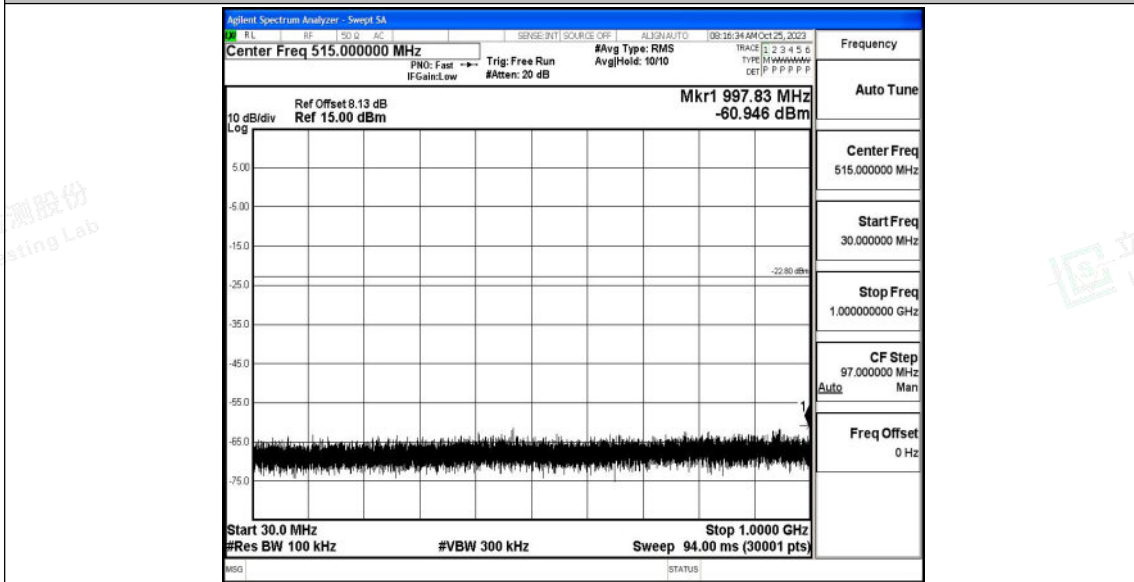


2DH5\_Ant1\_2441\_0~Reference



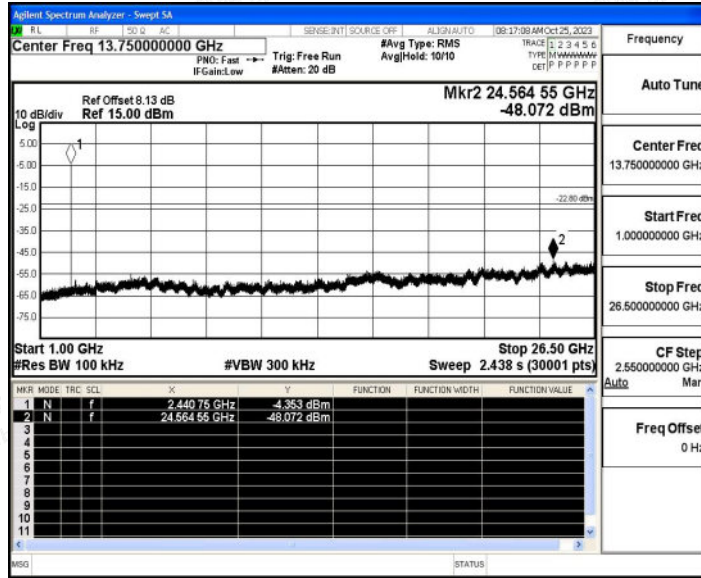


2DH5\_Ant1\_2441\_30~1000

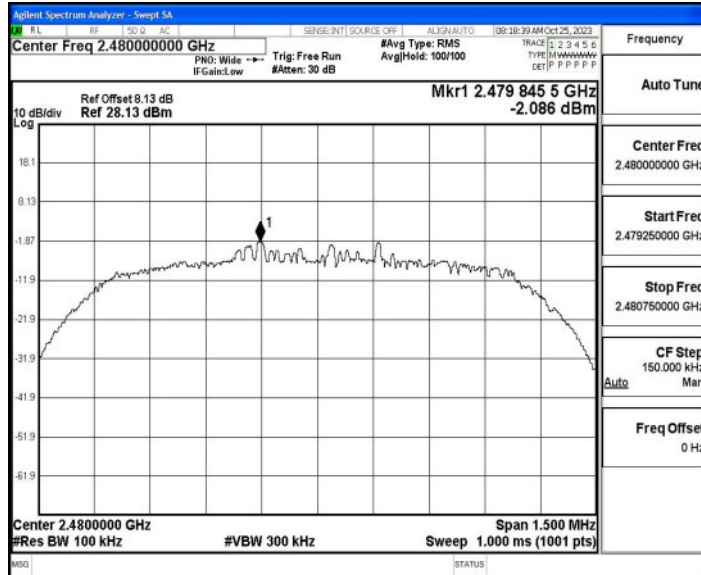


2DH5\_Ant1\_2441\_1000~26500



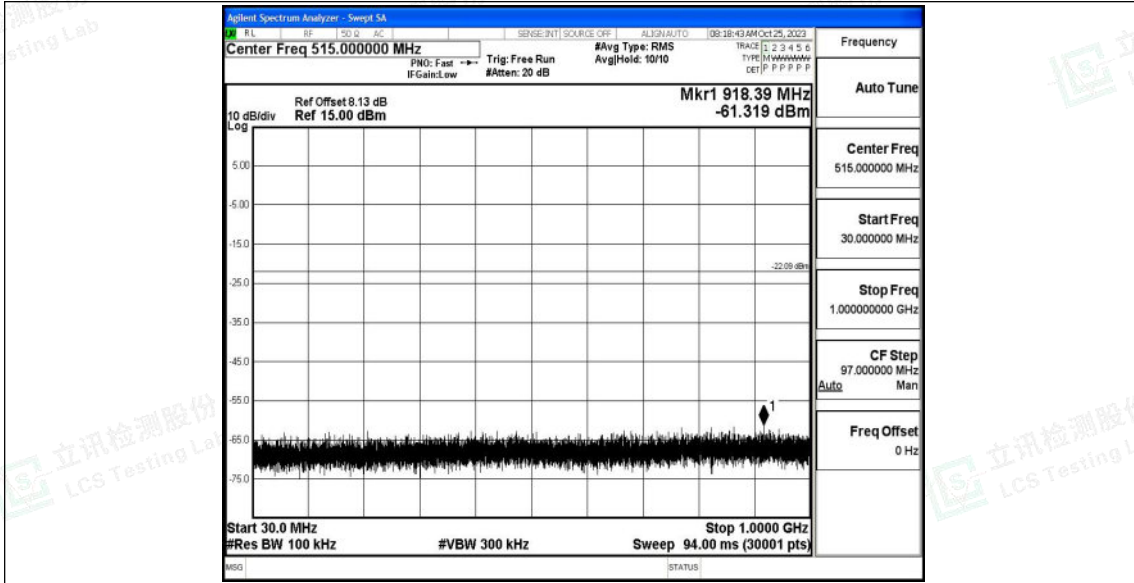


2DH5\_Ant1\_2480\_0~Reference

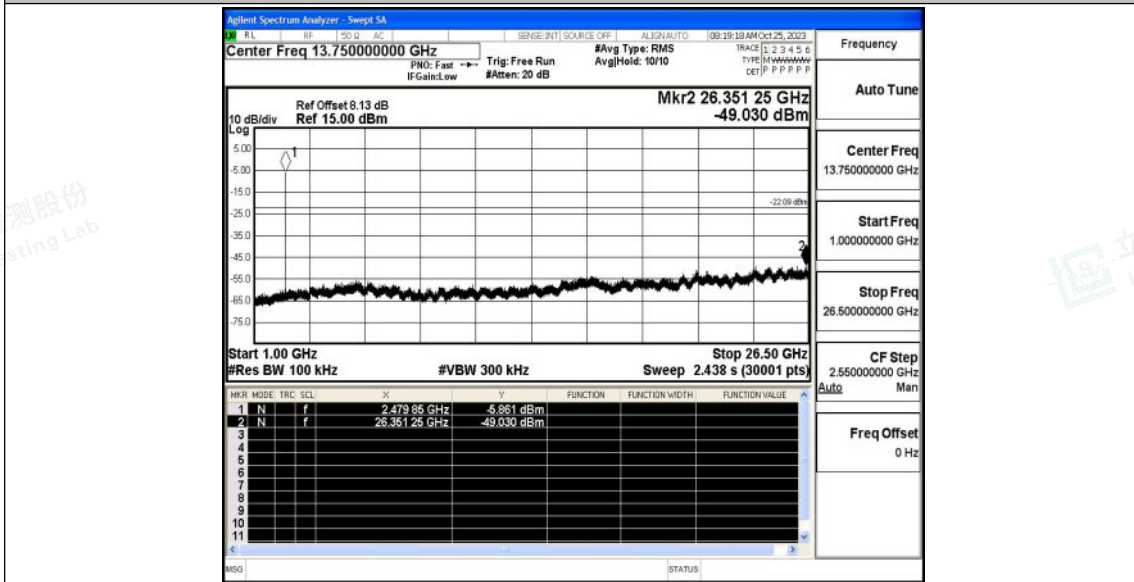


2DH5\_Ant1\_2480\_30~1000





2DH5\_Ant1\_2480\_1000~26500





## A.8 Emissions in Restricted Bands

### Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2384.735	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-43.75	≤-21.20	51.45	≤74	PASS
				Peak	2356.175	-39.52	≤-21.20	55.68	≤74	PASS
				Peak	2390.000	-42.64	≤-21.20	52.56	≤74	PASS
		High	2480	AV	2483.500	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2483.520	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2500.000	-48.62	≤-41.20	46.58	≤54	PASS
				Peak	2483.500	-44.21	≤-21.20	50.99	≤74	PASS
				Peak	2492.000	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2500.000	-39.36	≤-21.20	55.84	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2388.935	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2390.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2310.000	-43.73	≤-21.20	51.47	≤74	PASS
				Peak	2389.355	-39.39	≤-21.20	55.81	≤74	PASS
				Peak	2390.000	-43.59	≤-21.20	51.61	≤74	PASS
		High	2480	AV	2483.500	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2483.520	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2500.000	-48.64	≤-41.20	46.56	≤54	PASS
				Peak	2483.500	-43.17	≤-21.20	52.03	≤74	PASS
				Peak	2487.840	-40.15	≤-21.20	55.05	≤74	PASS
				Peak	2500.000	-41.21	≤-21.20	53.99	≤74	PASS

Note:

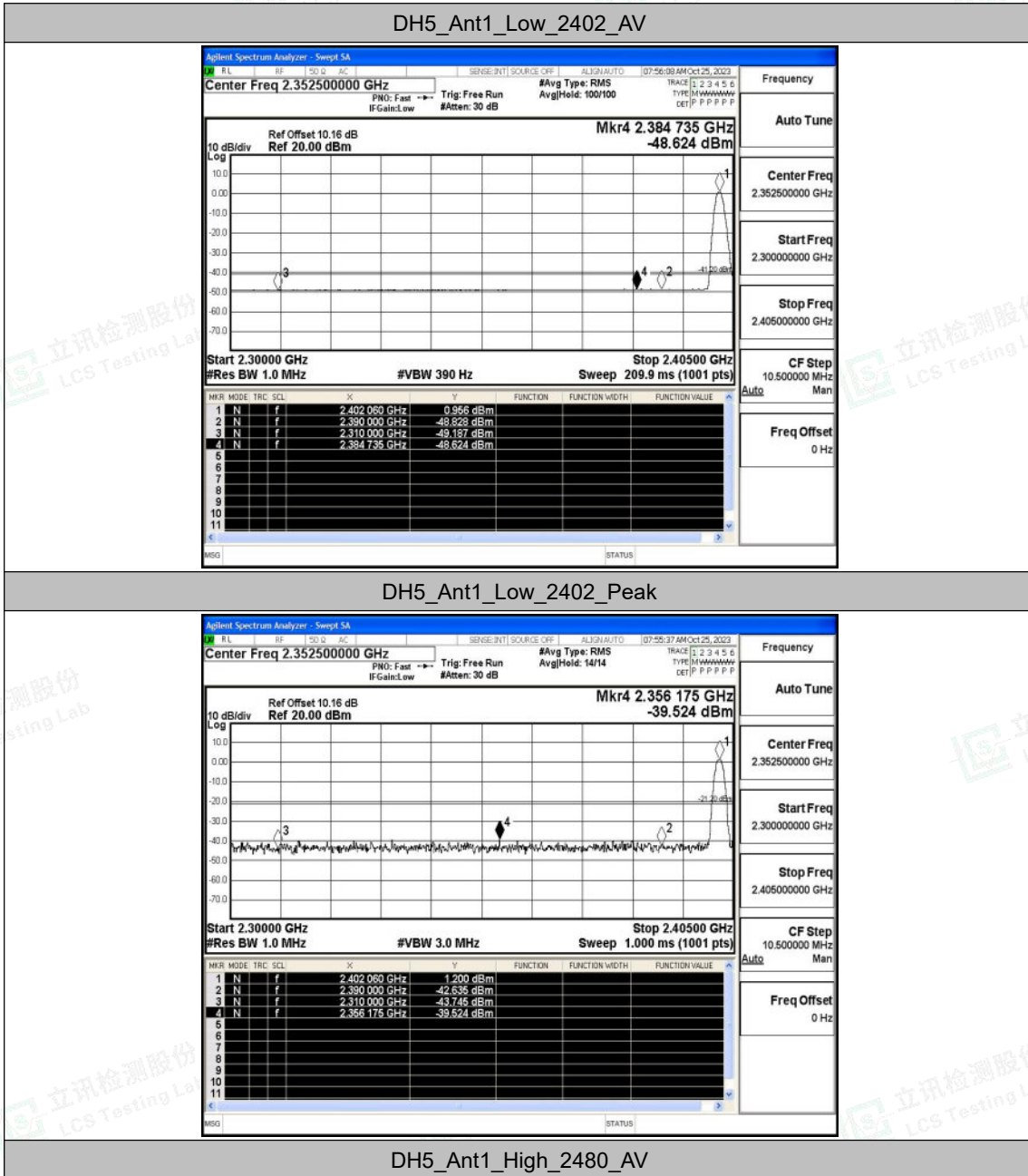
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



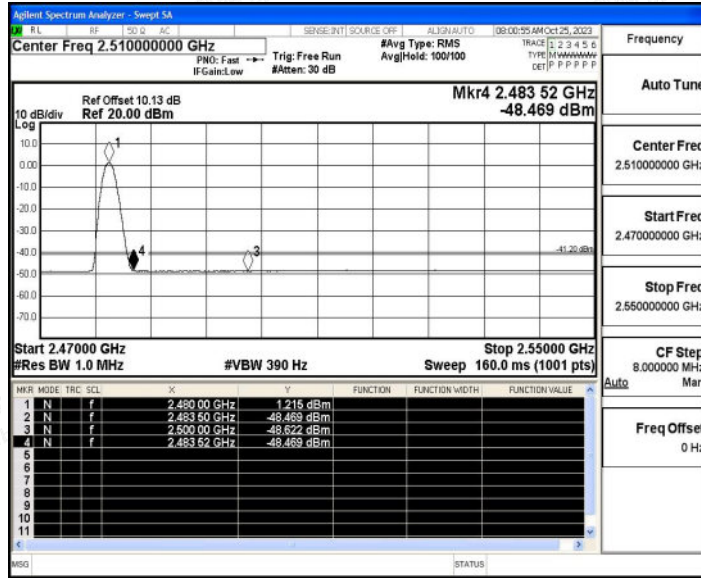




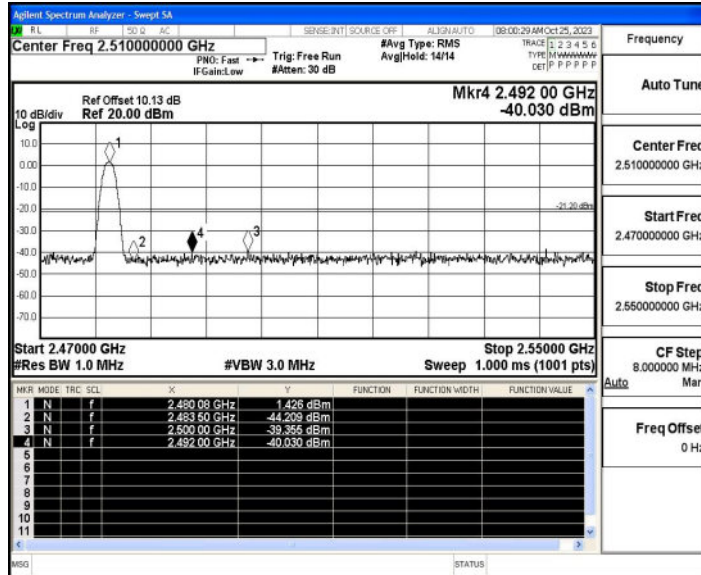
### Test Graphs





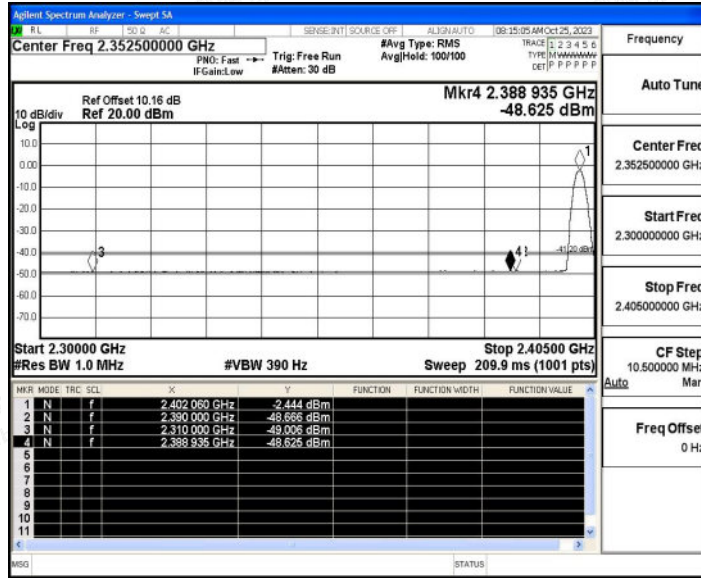


DH5\_Ant1\_High\_2480\_Peak

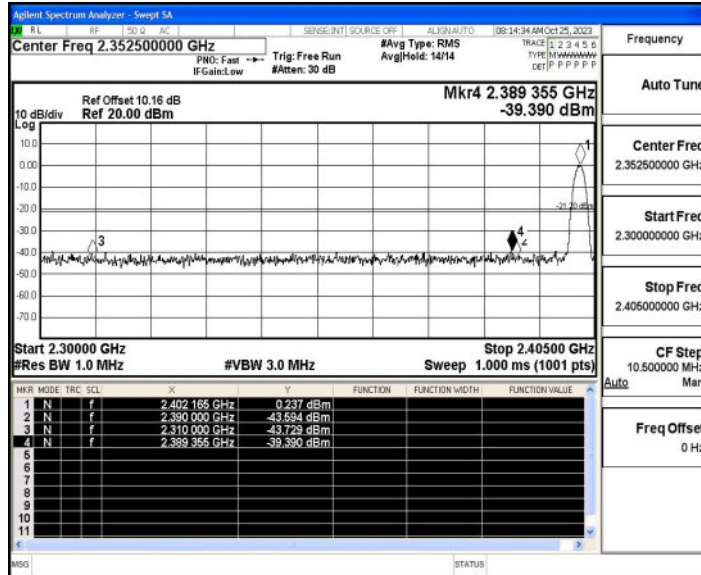


2DH5\_Ant1\_Low\_2402\_AV



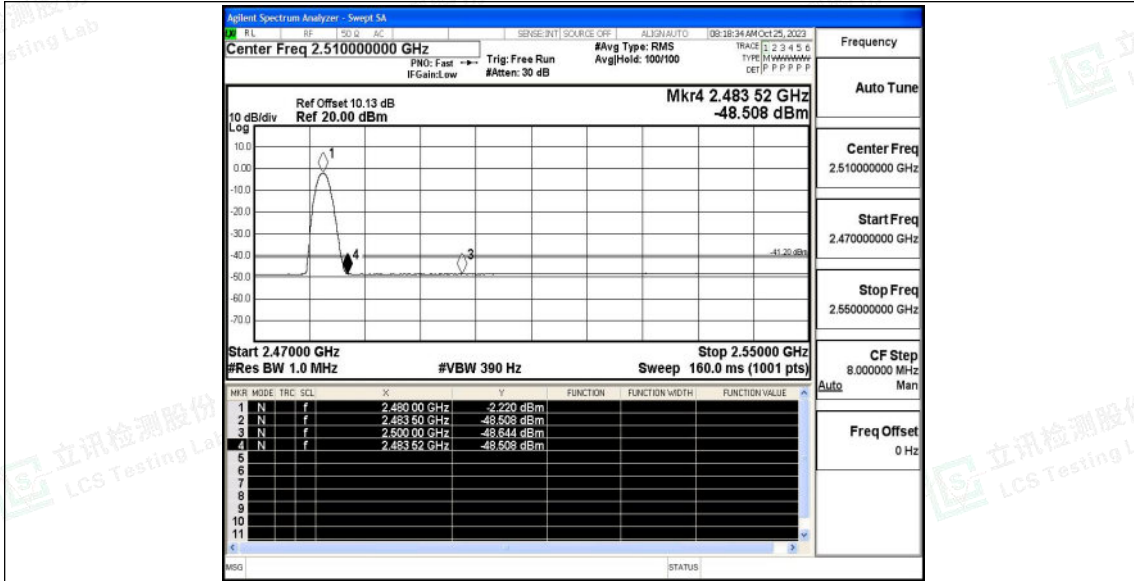


2DH5\_Ant1\_Low\_2402\_Peak



2DH5\_Ant1\_High\_2480\_AV





2DH5\_Ant1\_High\_2480\_Peak

