



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: G810

Test Model: G810

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

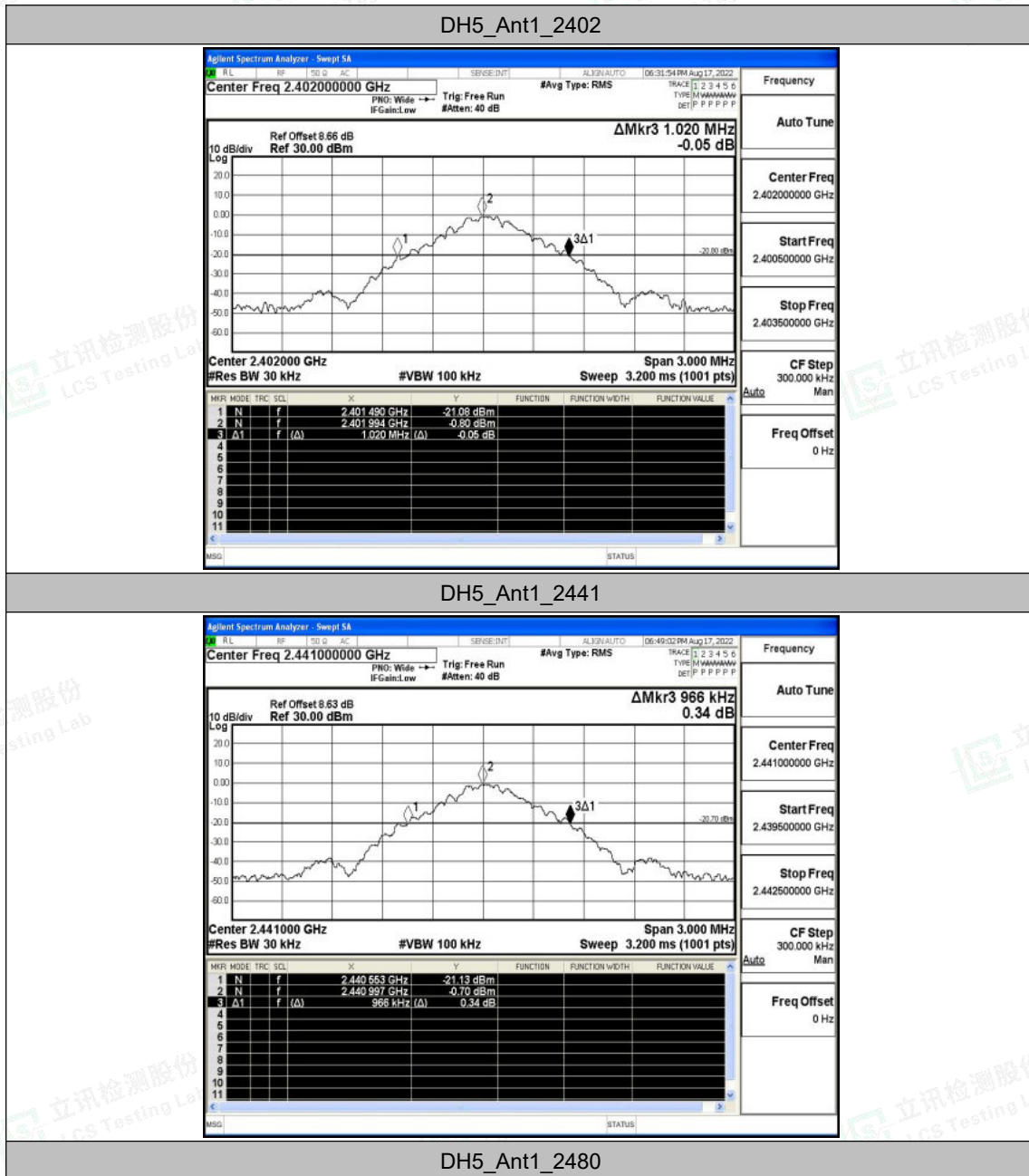
Test Result

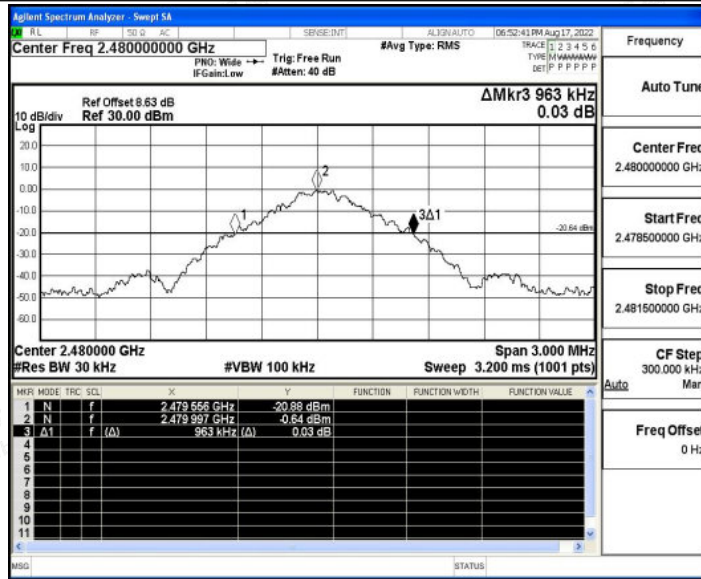
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.020	2401.490	2402.510	---
		2441	0.966	2440.553	2441.519	---
		2480	0.963	2479.556	2480.519	---
2DH5	Ant1	2402	1.374	2401.337	2402.711	---
		2441	1.377	2440.337	2441.714	---
		2480	1.377	2479.337	2480.714	---
3DH5	Ant1	2402	1.356	2401.343	2402.699	---
		2441	1.359	2440.340	2441.699	---
		2480	1.362	2479.340	2480.702	---



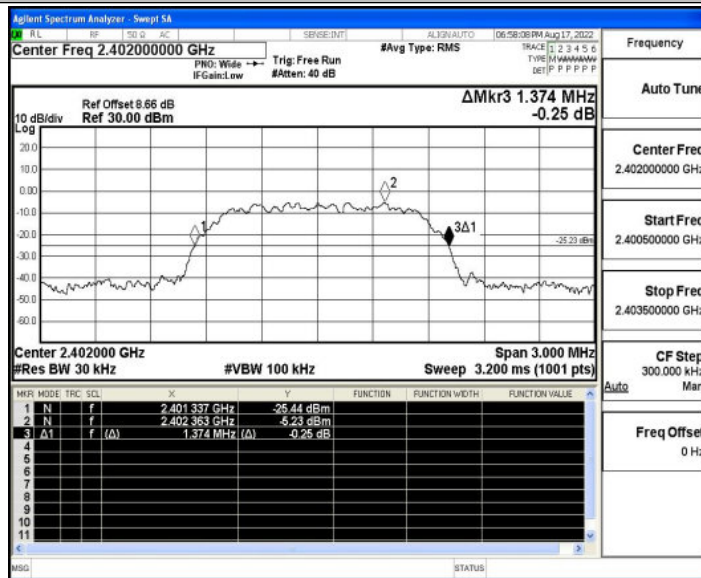


Test Graphs


DH5_Ant1_2441
DH5_Ant1_2480

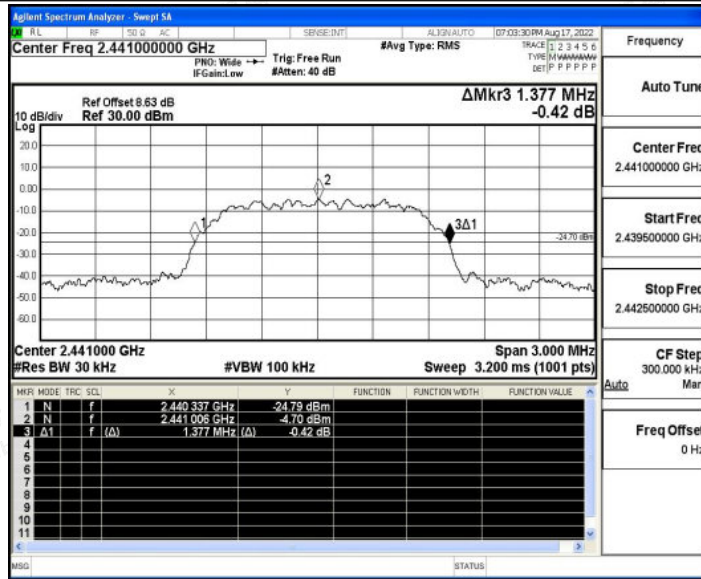



2DH5_Ant1_2402

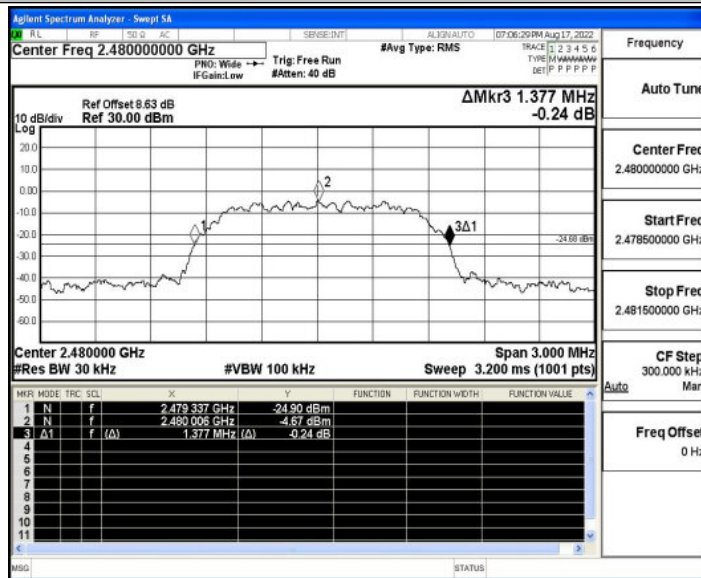


2DH5_Ant1_2441



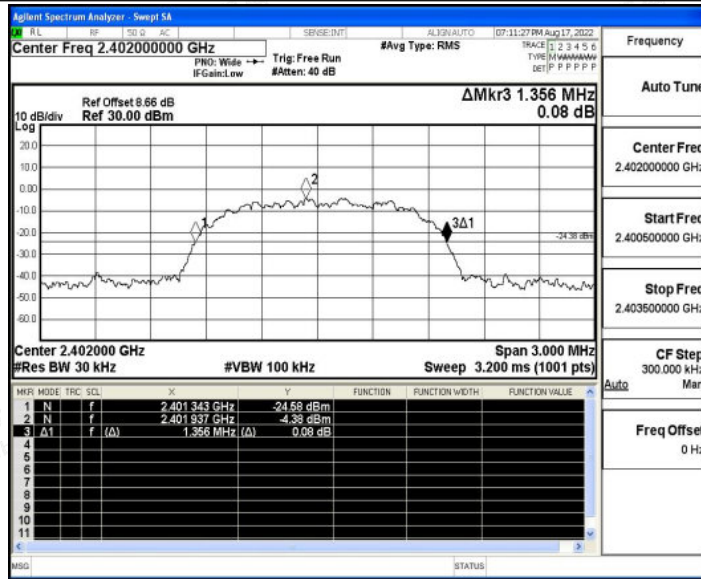


2Dh5_Ant1_2480

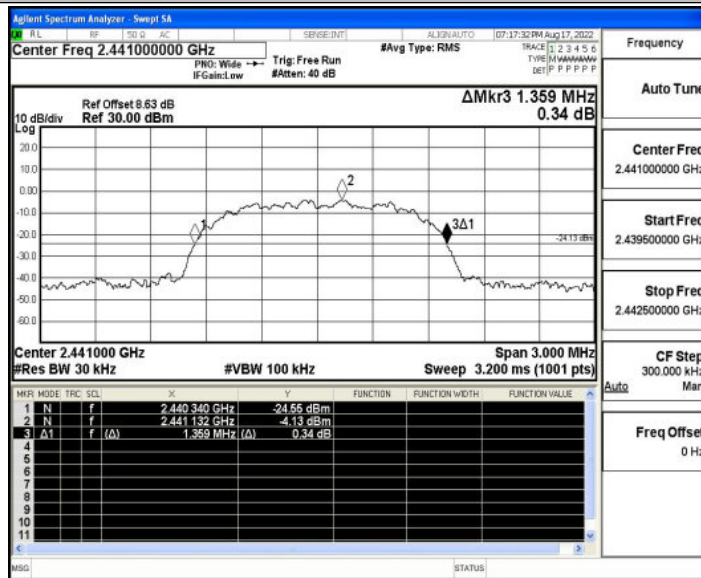


3Dh5_Ant1_2402



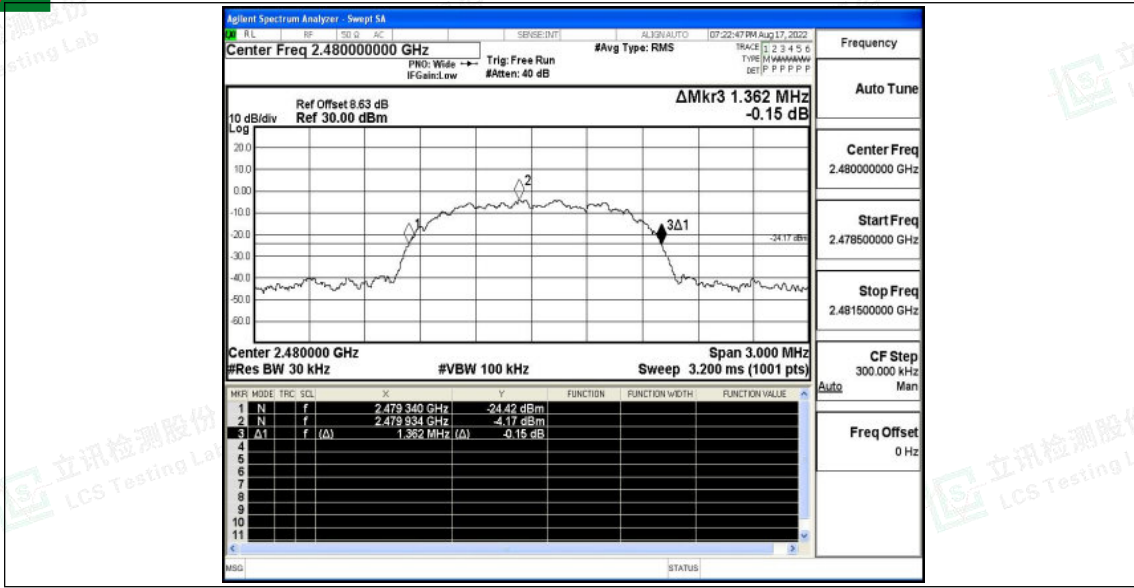


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum conducted output power

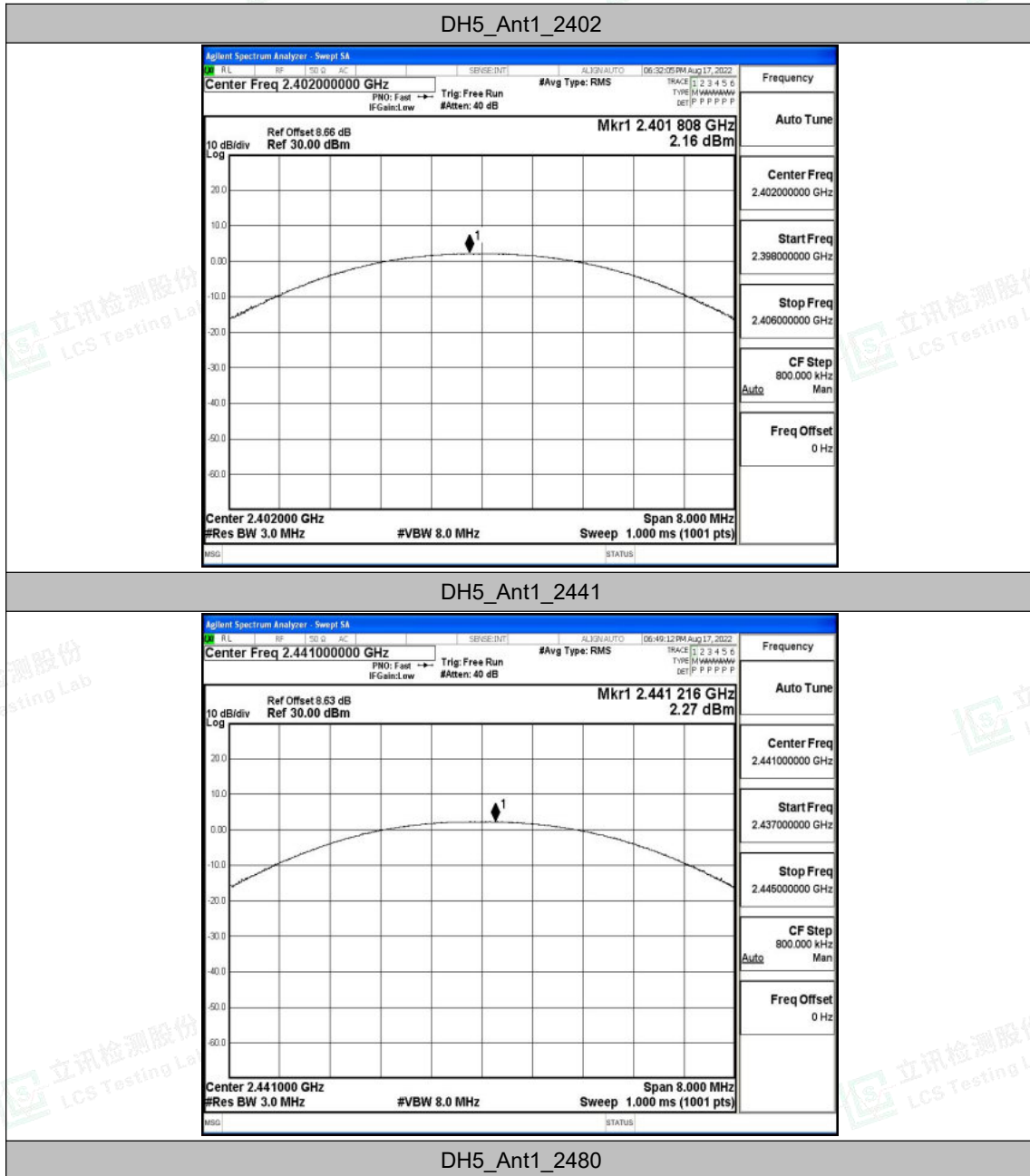
Test Result

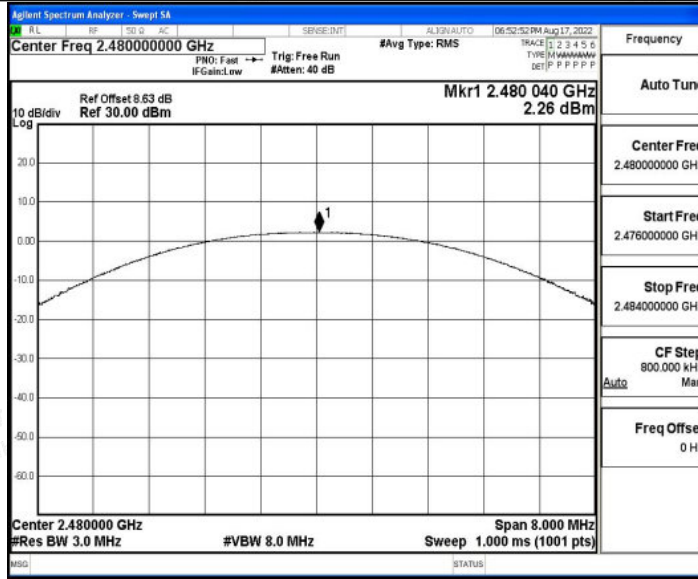
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.16	≤20.97	PASS
		2441	2.27	≤20.97	PASS
		2480	2.26	≤20.97	PASS
2DH5	Ant1	2402	3.68	≤20.97	PASS
		2441	4.21	≤20.97	PASS
		2480	4.19	≤20.97	PASS
3DH5	Ant1	2402	4.41	≤20.97	PASS
		2441	4.63	≤20.97	PASS
		2480	4.55	≤20.97	PASS



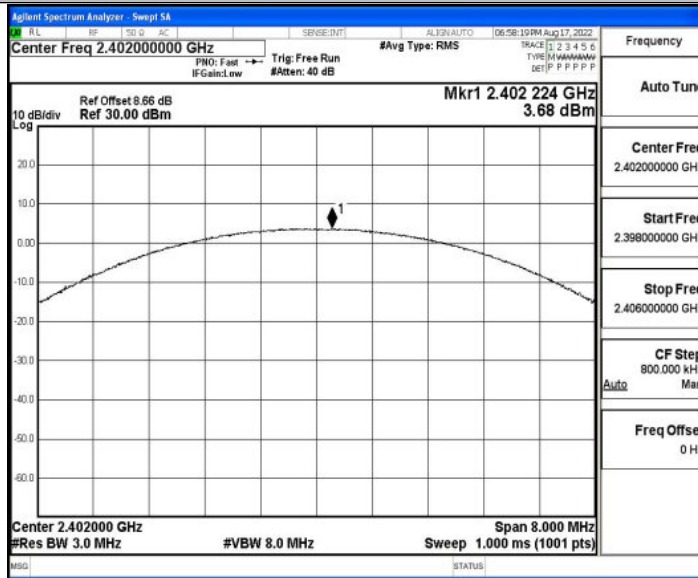


Test Graphs



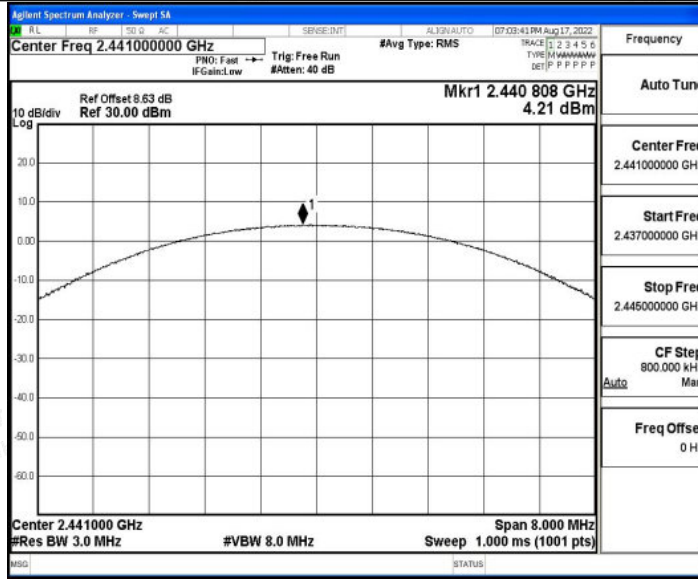


2DH5_Ant1_2402

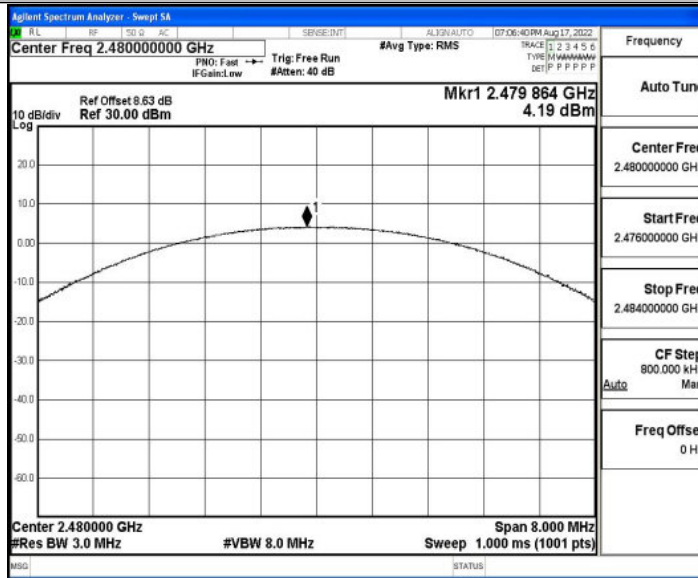


2DH5_Ant1_2441



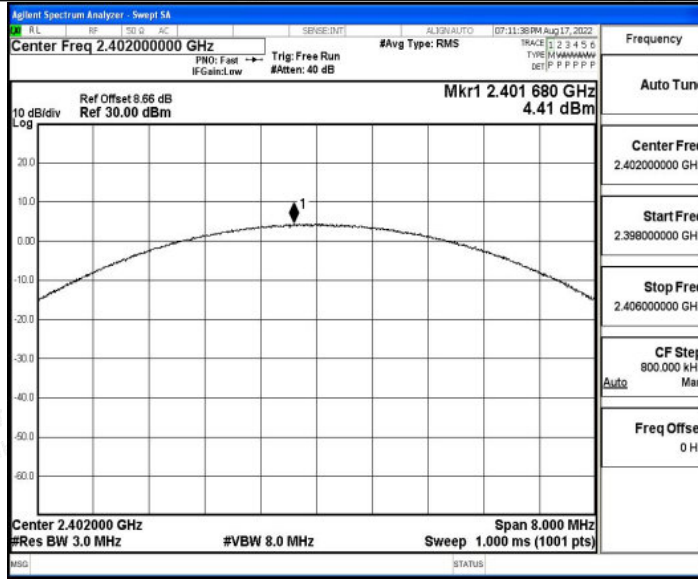


2DH5_Ant1_2480

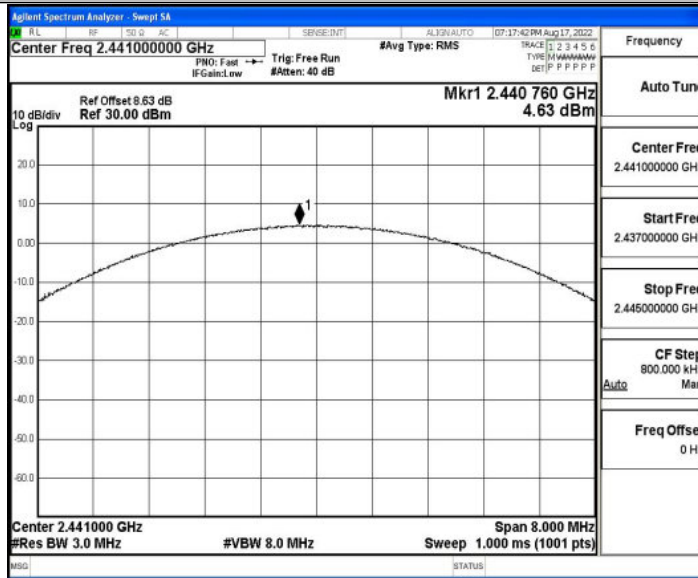


3DH5_Ant1_2402



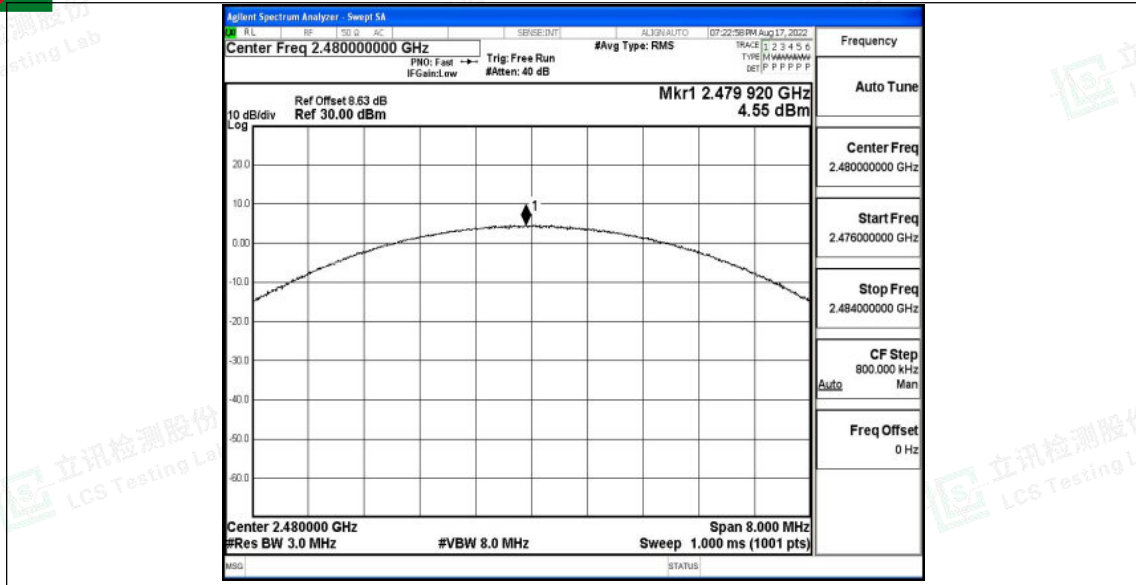


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

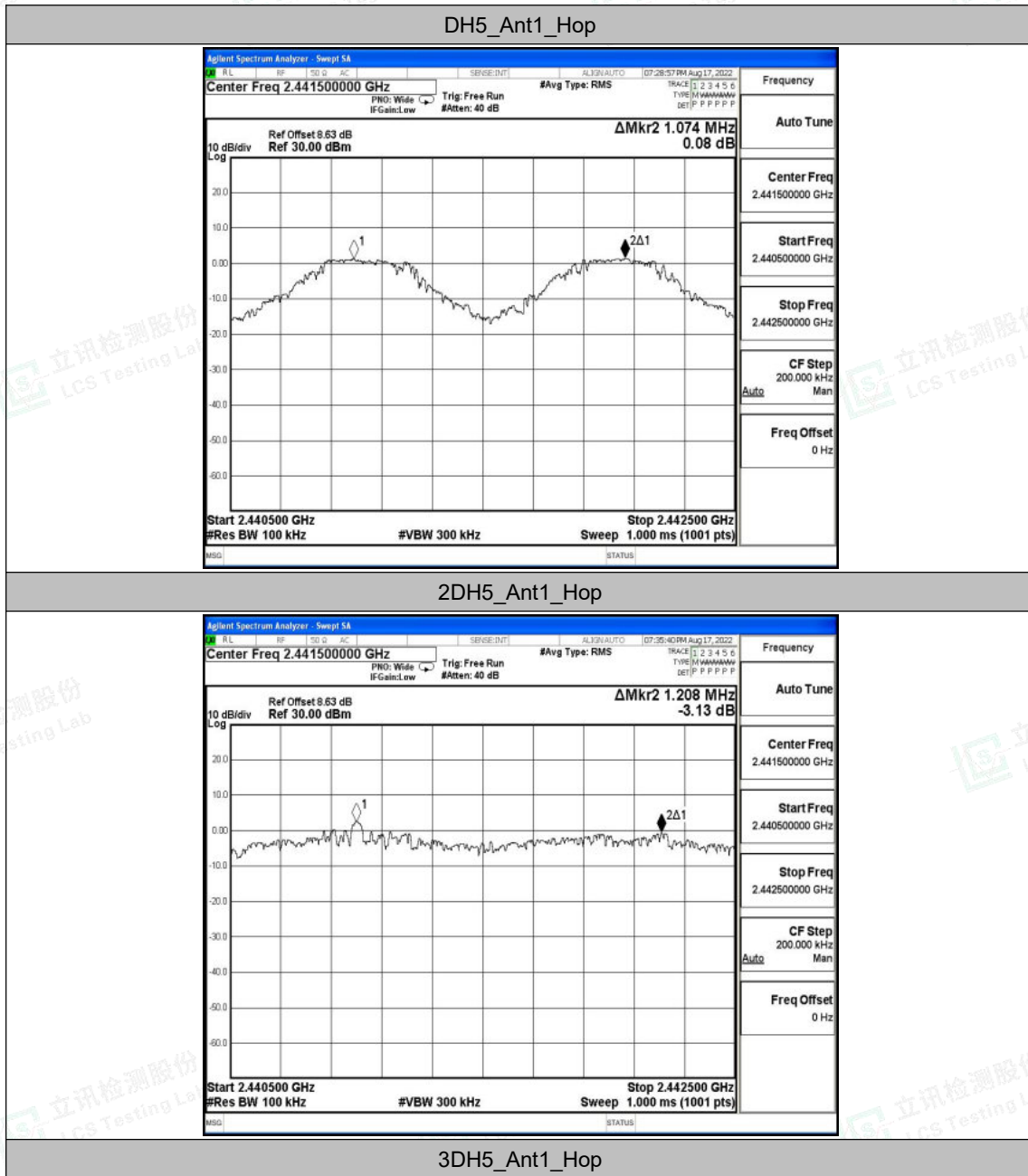
Test Result

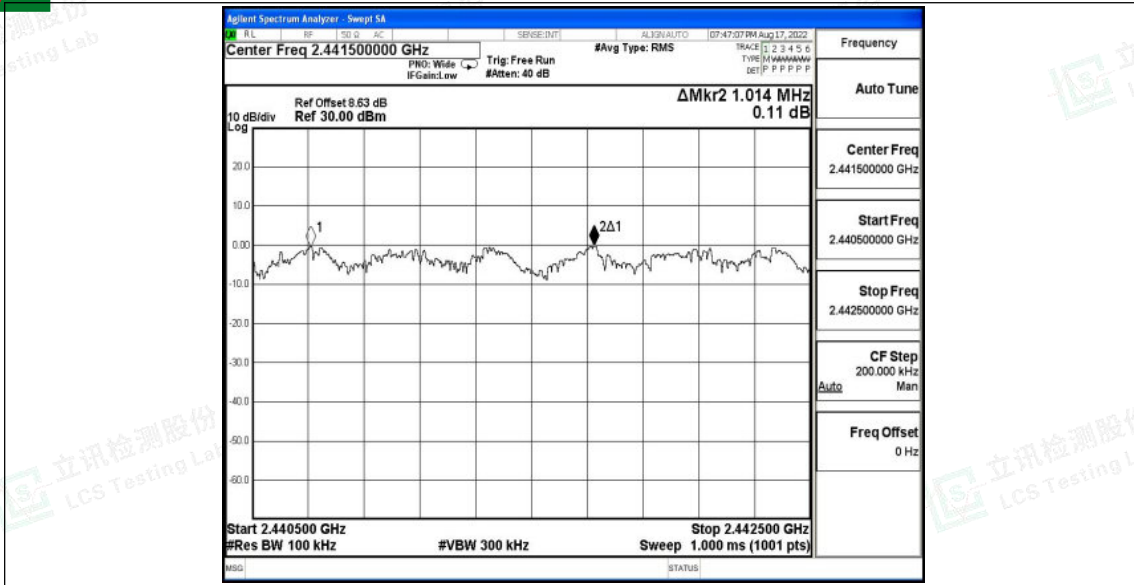
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.074	≥1.020	PASS
2DH5	Ant1	Hop	1.208	≥0.918	PASS
3DH5	Ant1	Hop	1.014	≥0.908	PASS





Test Graphs







A.4 Time of occupancy

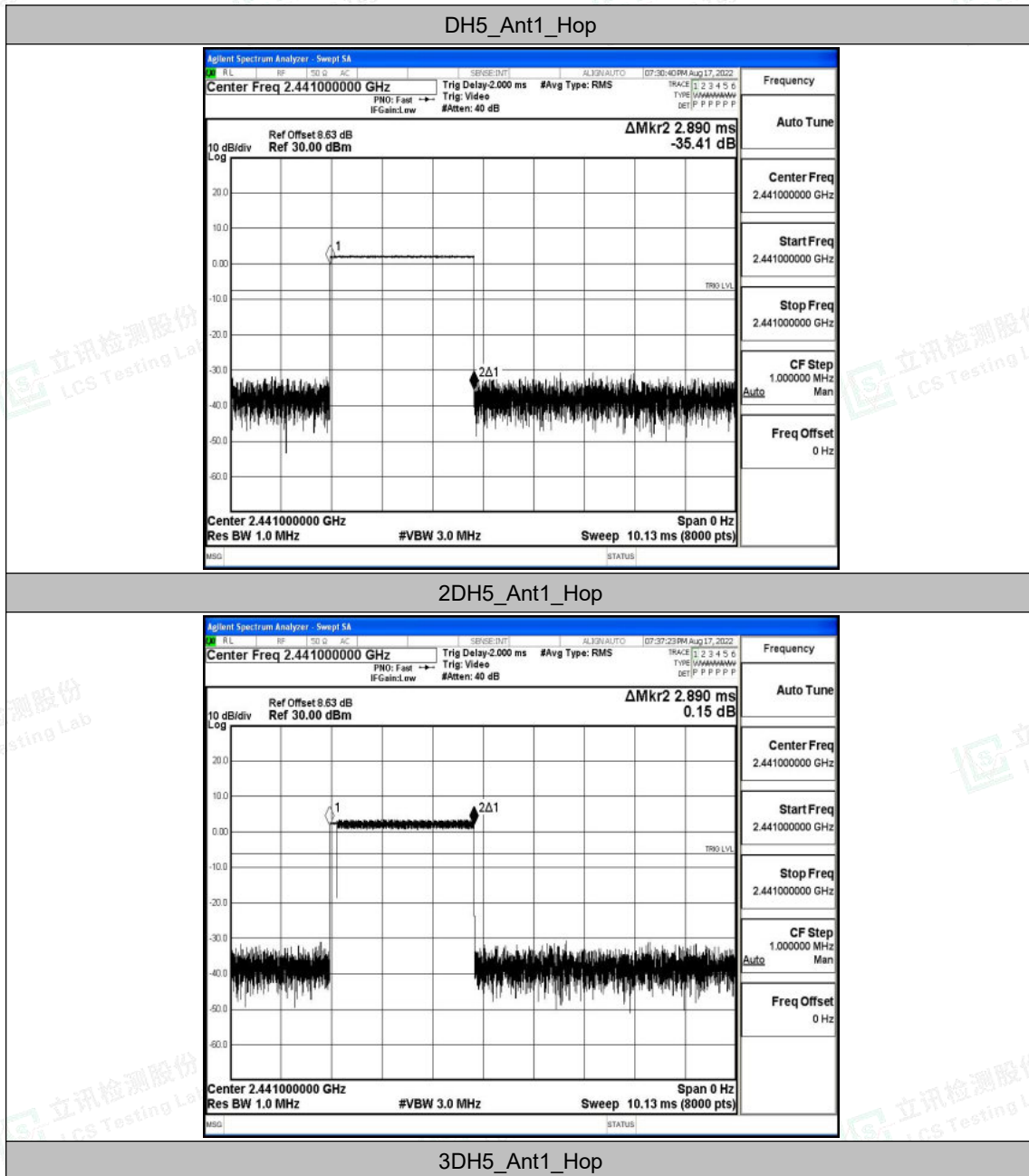
Test Result

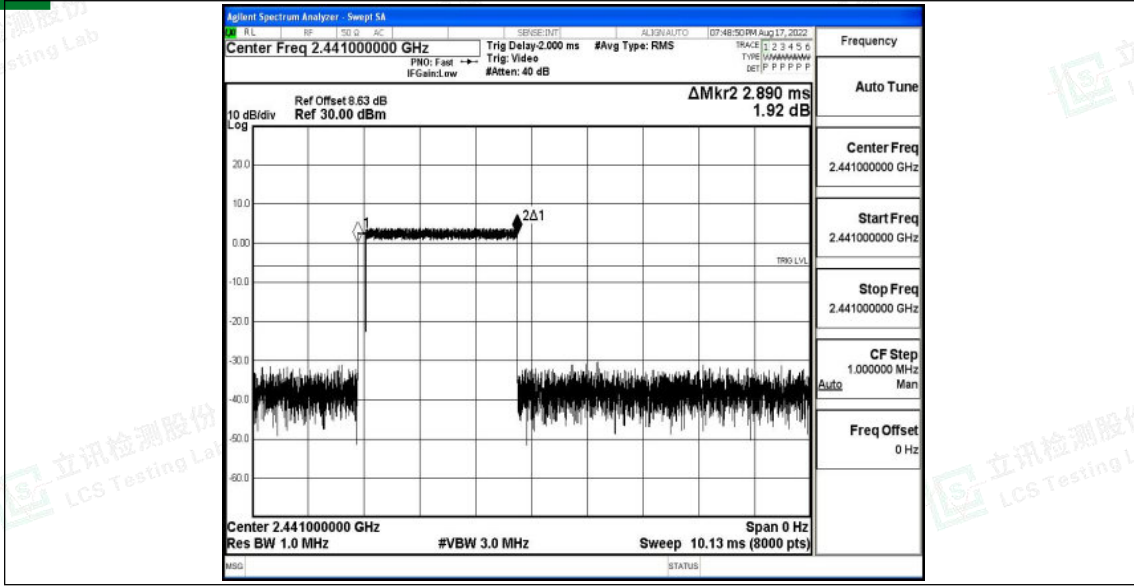
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

Test Result

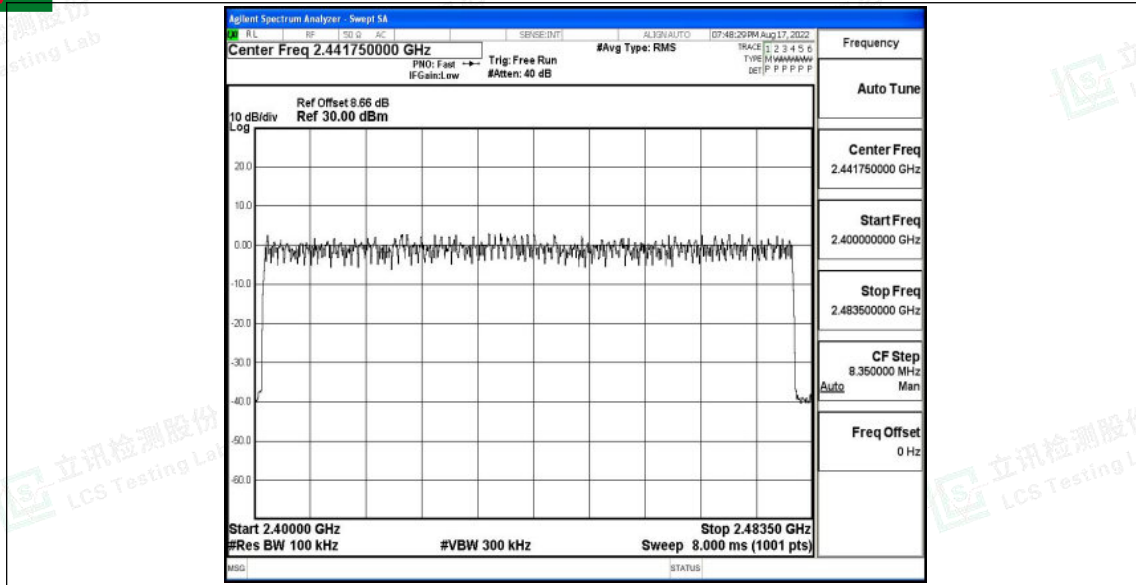
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

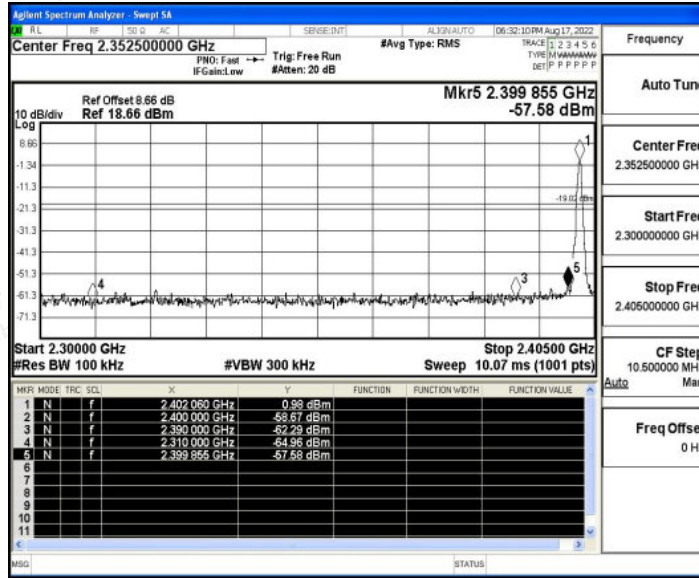
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.98	-57.58	≤-19.02	PASS
		High	2480	1.00	-59.32	≤-19	PASS
		Low	Hop_2402	1.31	-55.14	≤-18.69	PASS
		High	Hop_2480	1.68	-55.49	≤-18.32	PASS
2DH5	Ant1	Low	2402	-1.14	-57.16	≤-21.14	PASS
		High	2480	-0.84	-58.85	≤-20.84	PASS
		Low	Hop_2402	-1.70	-55.6	≤-21.7	PASS
		High	Hop_2480	0.40	-54.74	≤-19.6	PASS
3DH5	Ant1	Low	2402	-0.90	-56.86	≤-20.9	PASS
		High	2480	-0.97	-58.81	≤-20.97	PASS
		Low	Hop_2402	-0.68	-56.38	≤-20.68	PASS
		High	Hop_2480	0.02	-55.4	≤-19.99	PASS



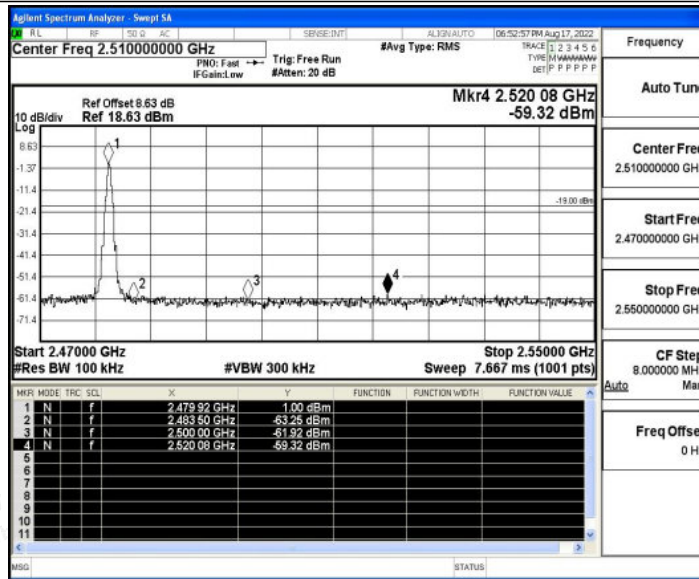


Test Graphs

DH5_Ant1_Low_2402

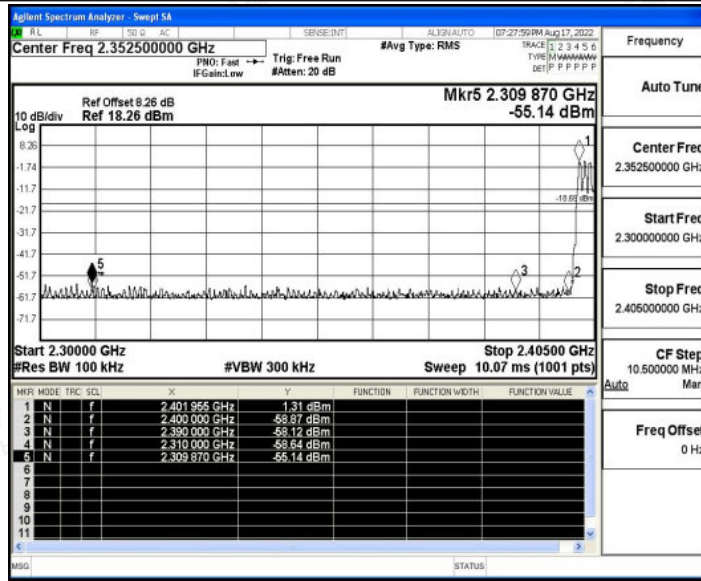


DH5_Ant1_High_2480

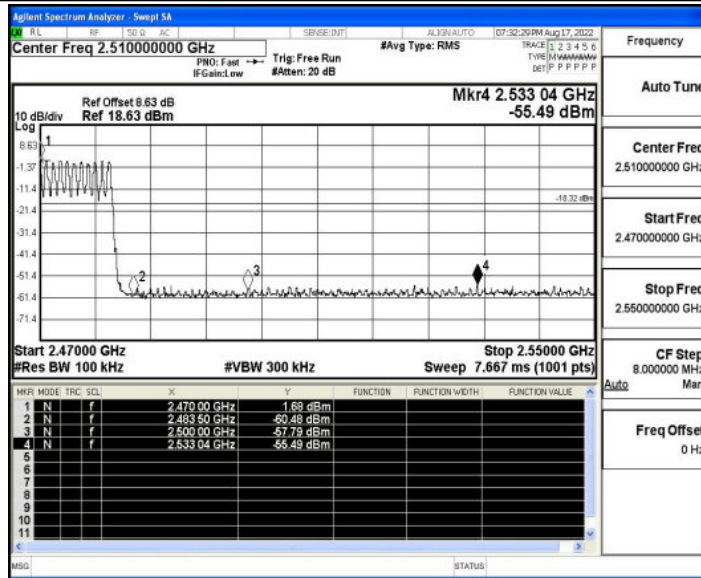


DH5_Ant1_Low_Hop_2402



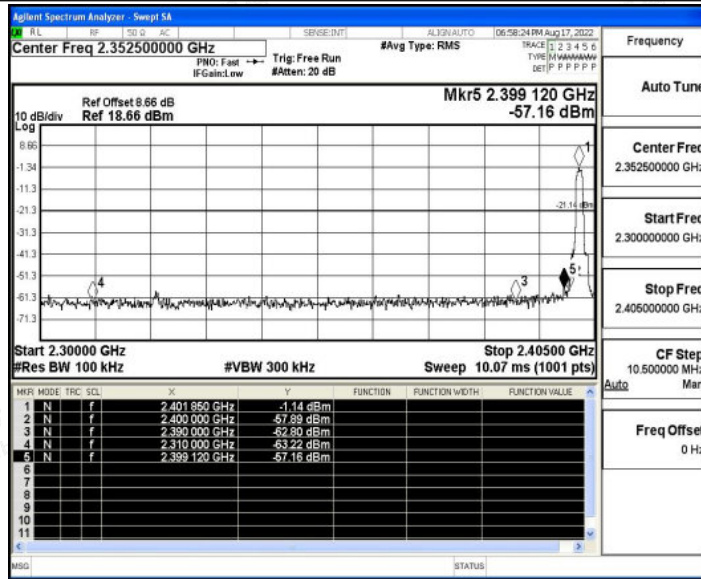


DH5_Ant1_High_Hop_2480

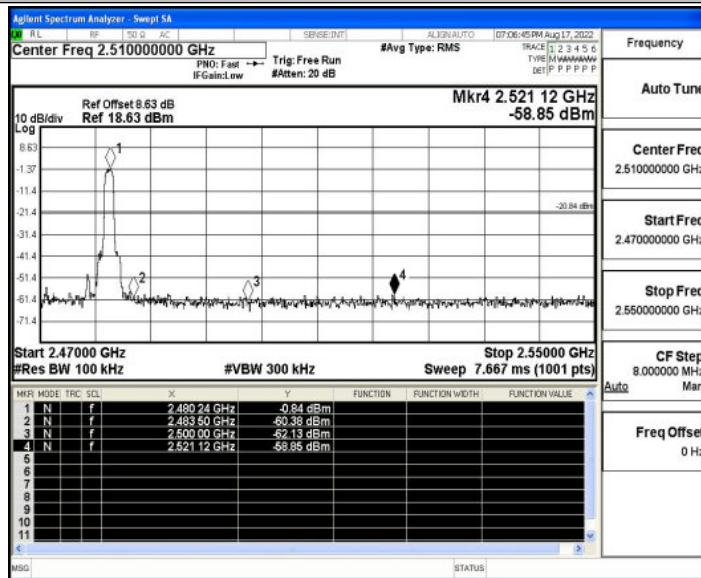


2DH5_Ant1_Low_2402



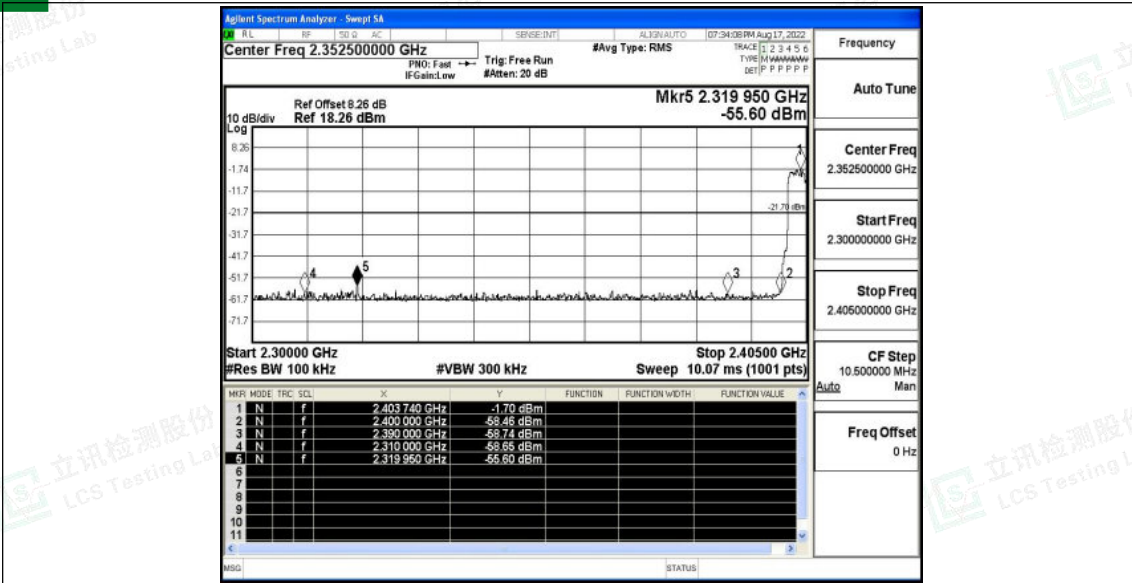


2DH5_Ant1_High_2480

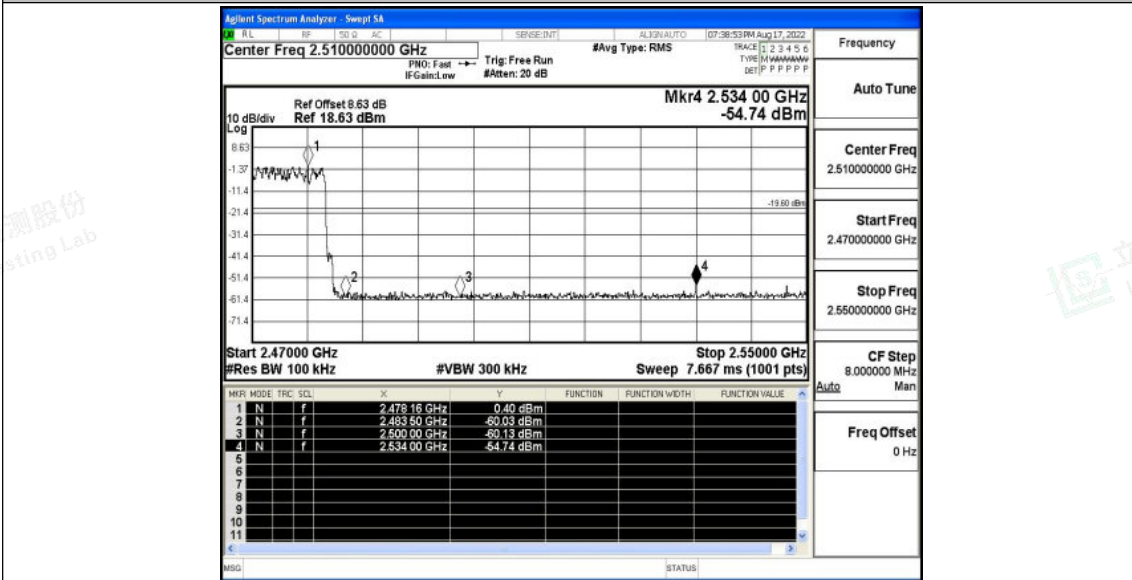


2DH5_Ant1_Low_Hop_2402



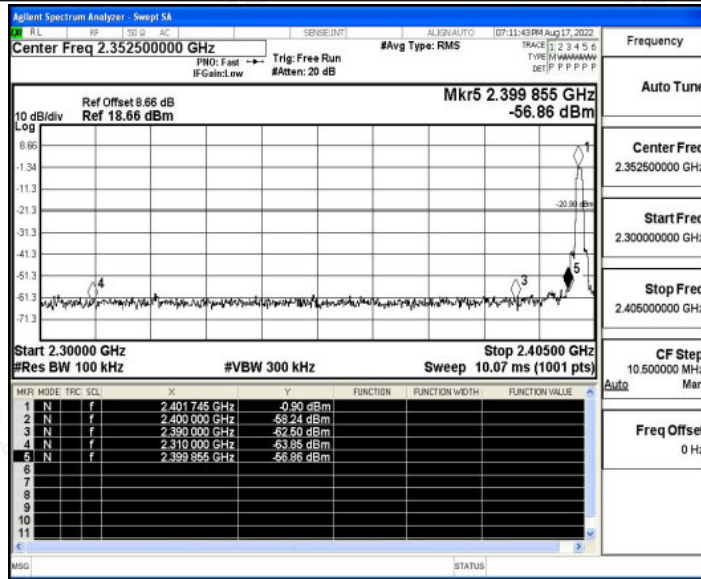


2DH5_Ant1_High_Hop_2480

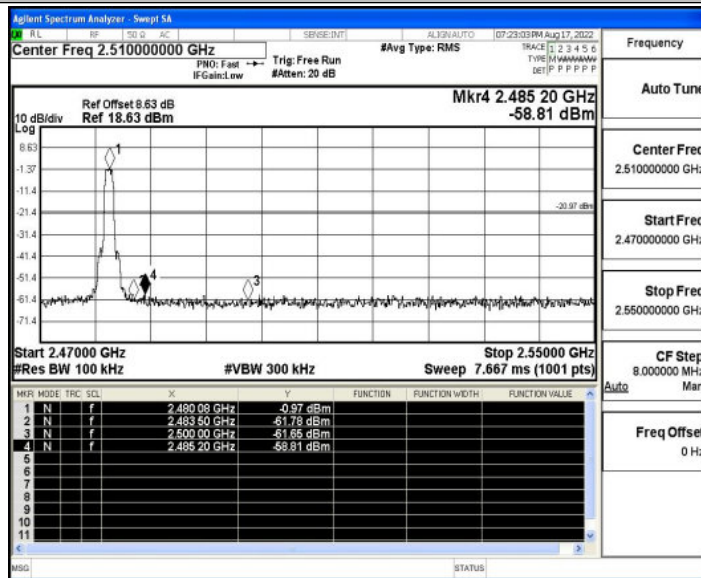


3DH5_Ant1_Low_2402



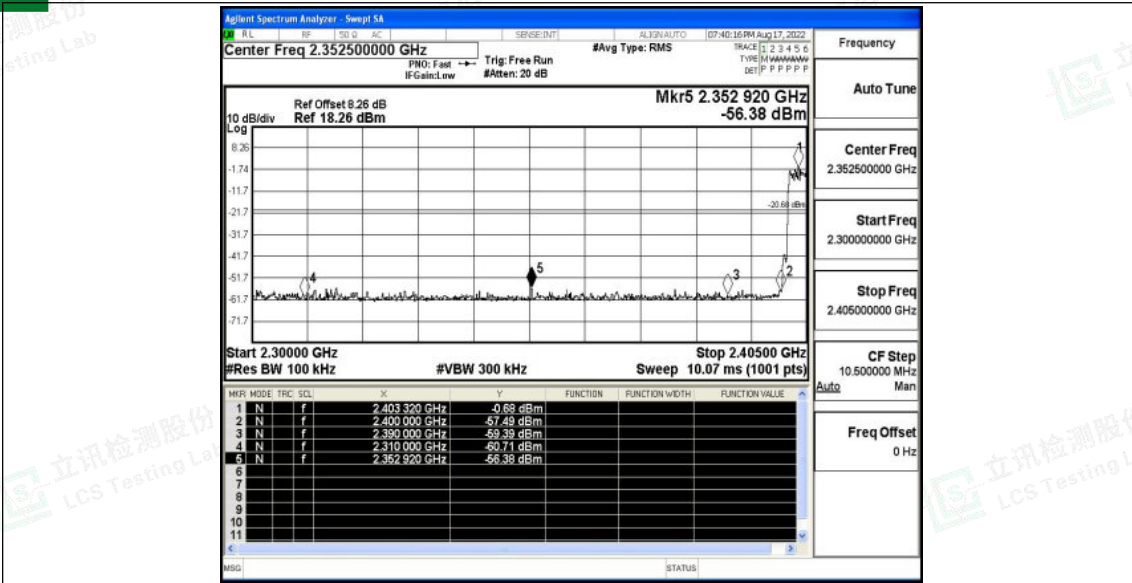


3DH5_Ant1_High_2480

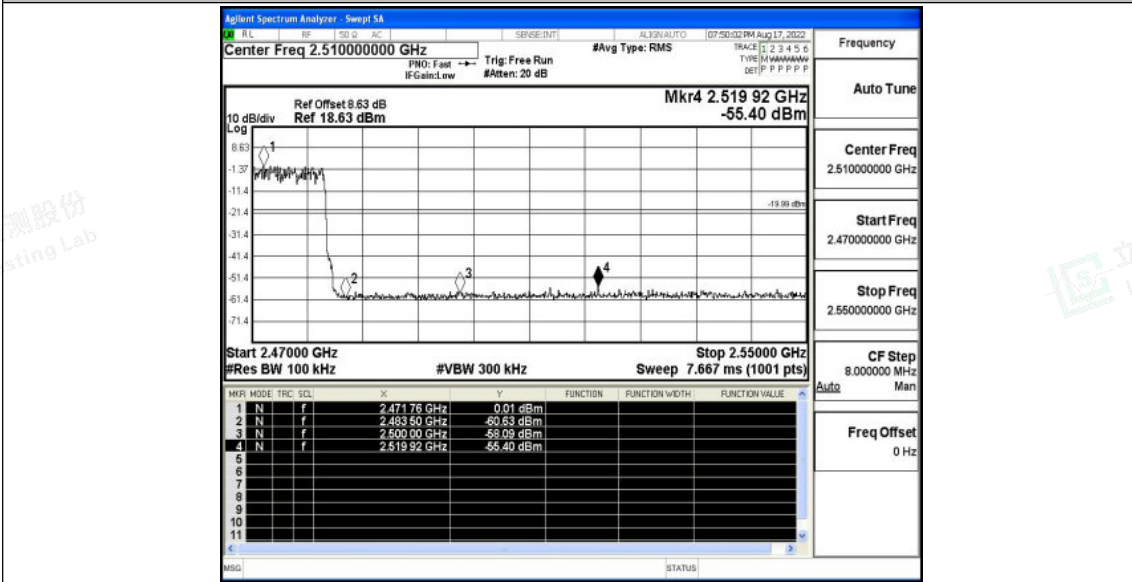


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

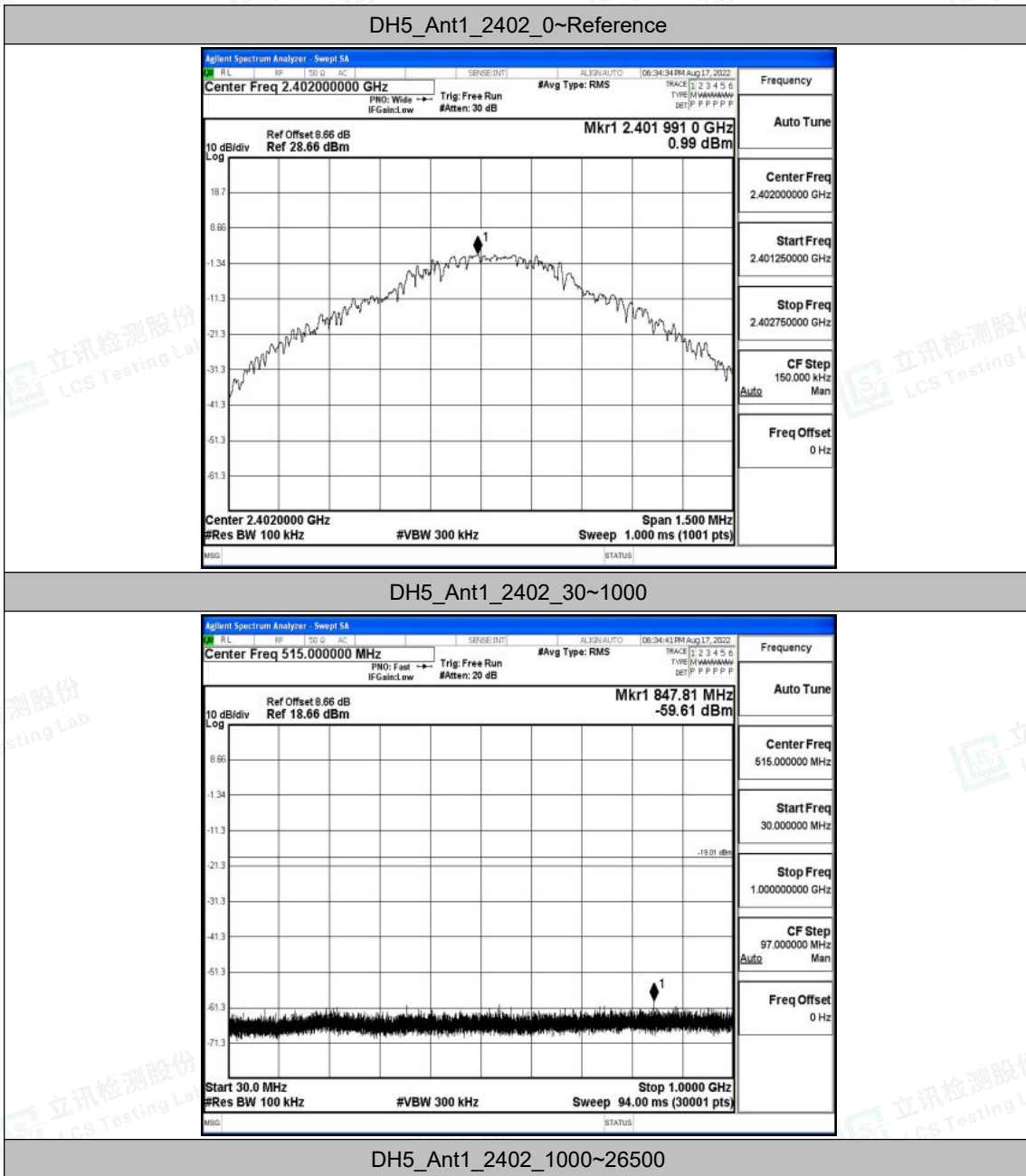
Test Result

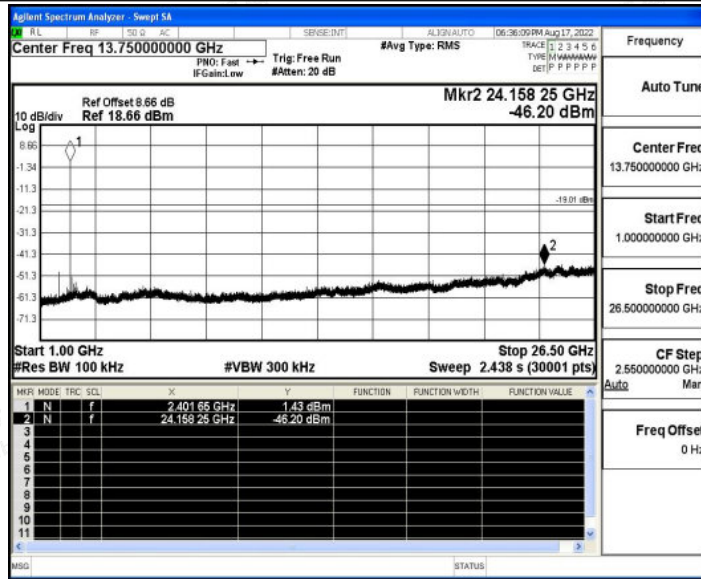
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-59.61	≤-19.01	PASS
			1000~26500	0.99	-46.2	≤-19.01	PASS
		2441	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-53	≤-18.87	PASS
			1000~26500	1.13	-41.86	≤-18.87	PASS
		2480	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-52.27	≤-18.87	PASS
			1000~26500	1.13	-46.12	≤-18.87	PASS
2DH5	Ant1	2402	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-60.21	≤-21.89	PASS
			1000~26500	-1.89	-45.68	≤-21.89	PASS
		2441	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-60.56	≤-20.97	PASS
			1000~26500	-0.97	-45.34	≤-20.97	PASS
		2480	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-60.46	≤-20.97	PASS
			1000~26500	-0.97	-46.22	≤-20.97	PASS
3DH5	Ant1	2402	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-59.97	≤-20.49	PASS
			1000~26500	-0.49	-45.77	≤-20.49	PASS
		2441	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-60.9	≤-20.24	PASS
			1000~26500	-0.24	-45.84	≤-20.24	PASS
		2480	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-60.53	≤-20.31	PASS
			1000~26500	-0.31	-45.83	≤-20.31	PASS



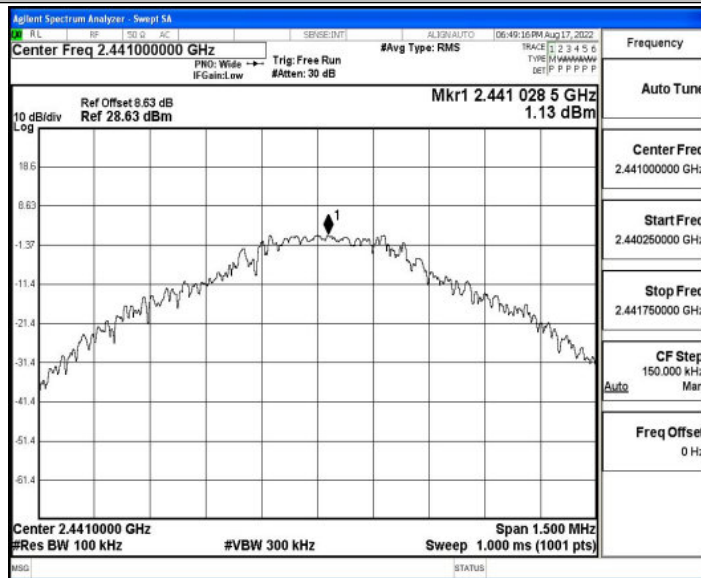


Test Graphs



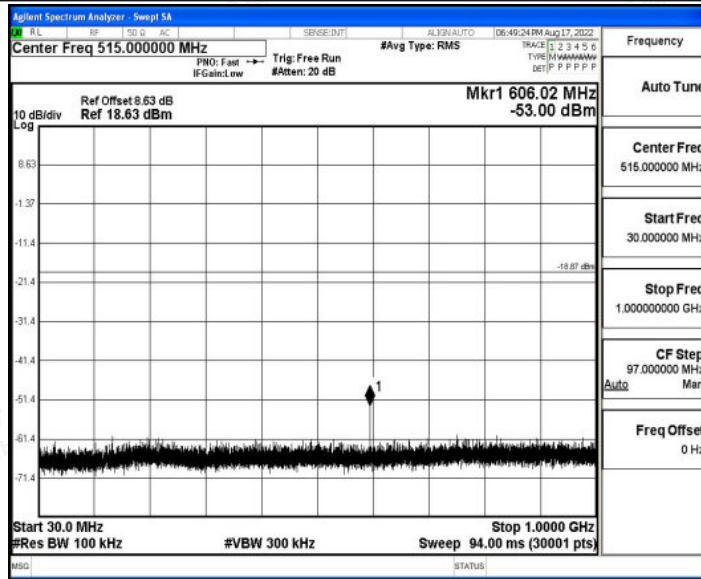


DH5_Ant1_2441_0~Reference

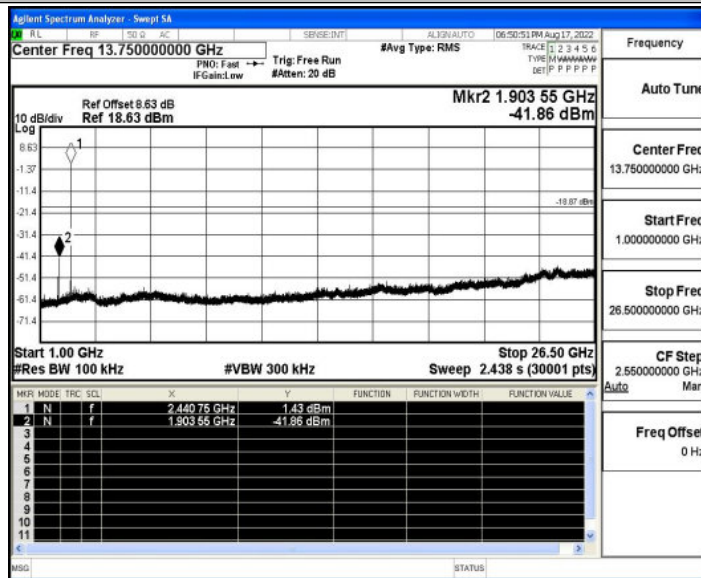


DH5_Ant1_2441_30~1000



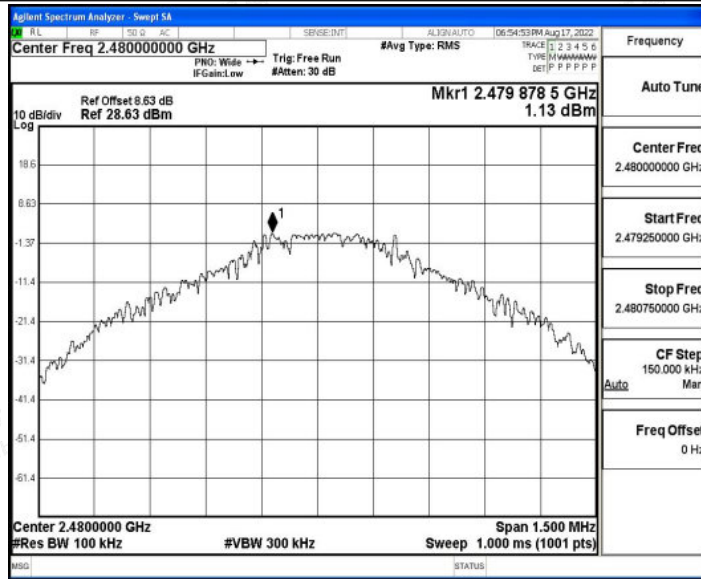


DH5_Ant1_2441_1000~26500

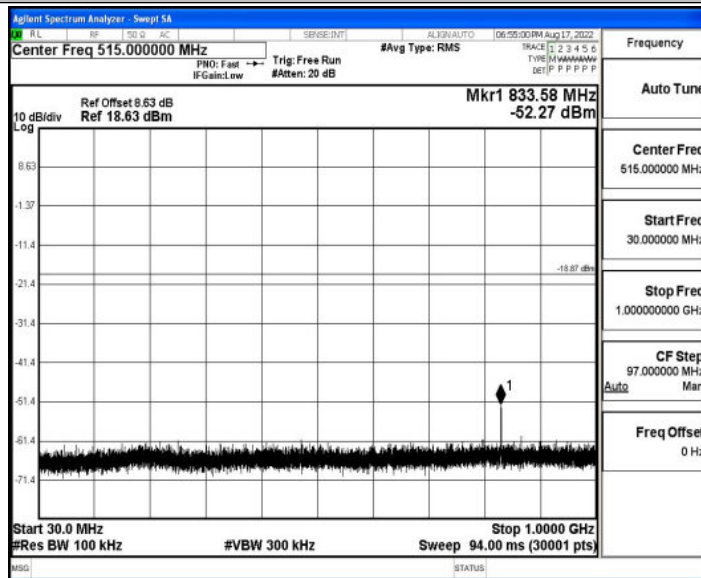


DH5_Ant1_2480_0~Reference



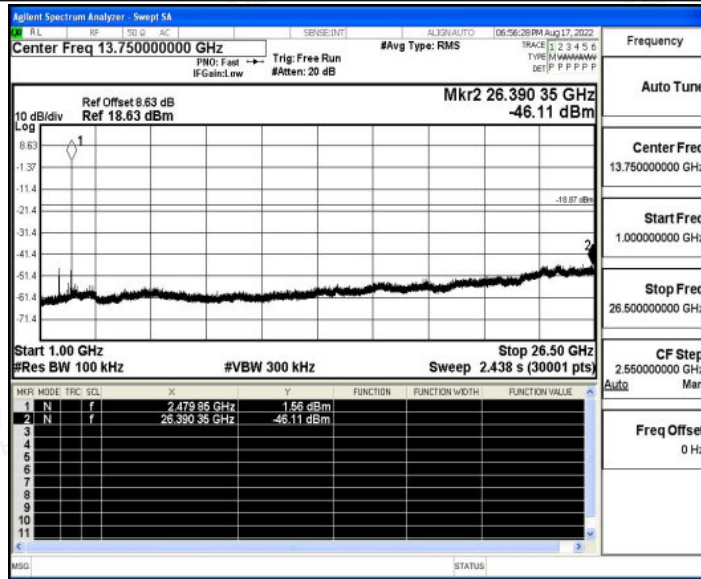


DH5_Ant1_2480_30~1000

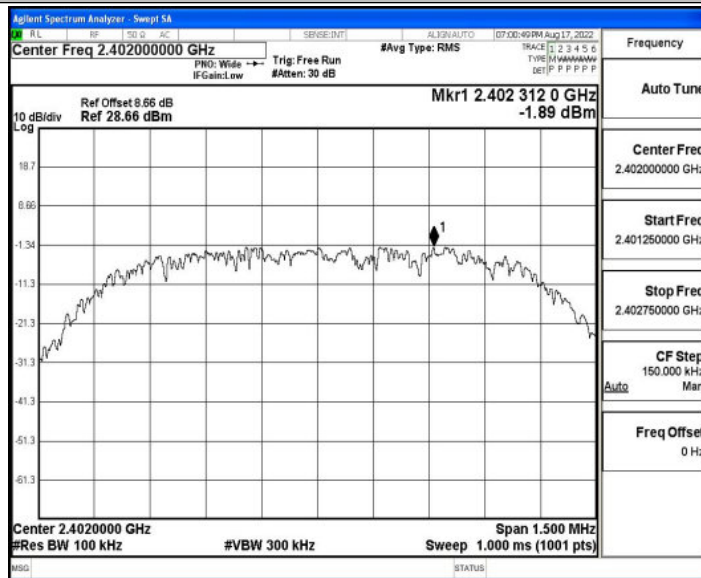


DH5_Ant1_2480_1000~26500



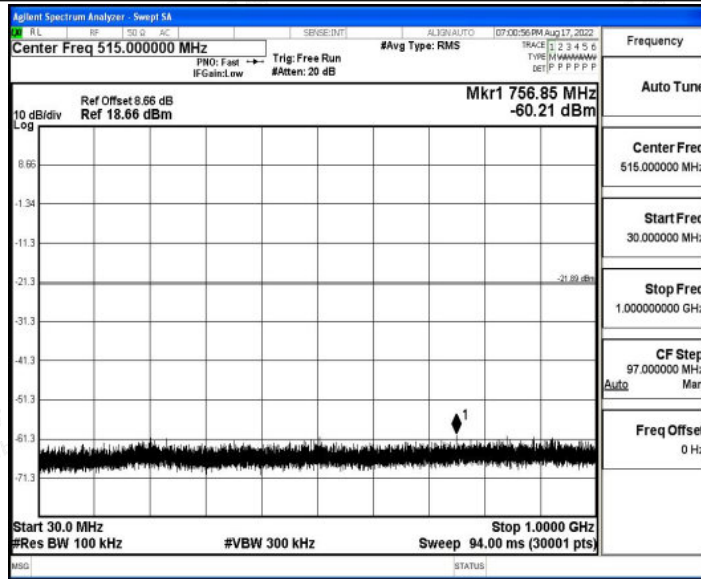


2DH5_Ant1_2402_0~Reference

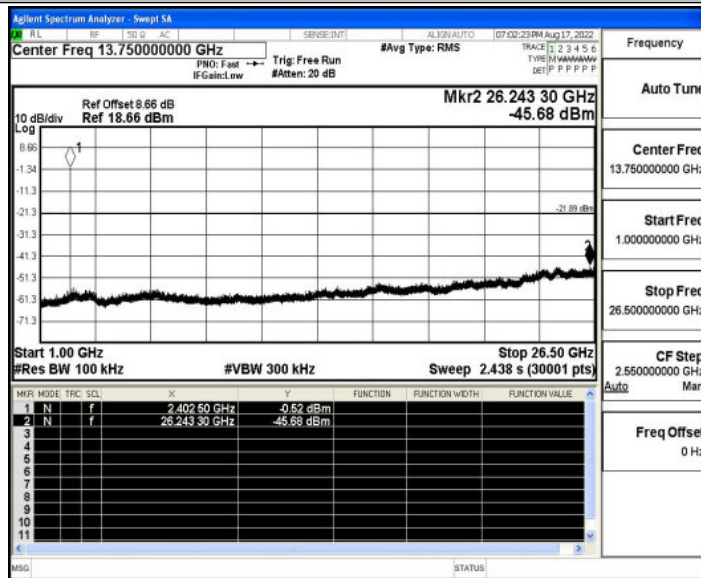


2DH5_Ant1_2402_30~1000



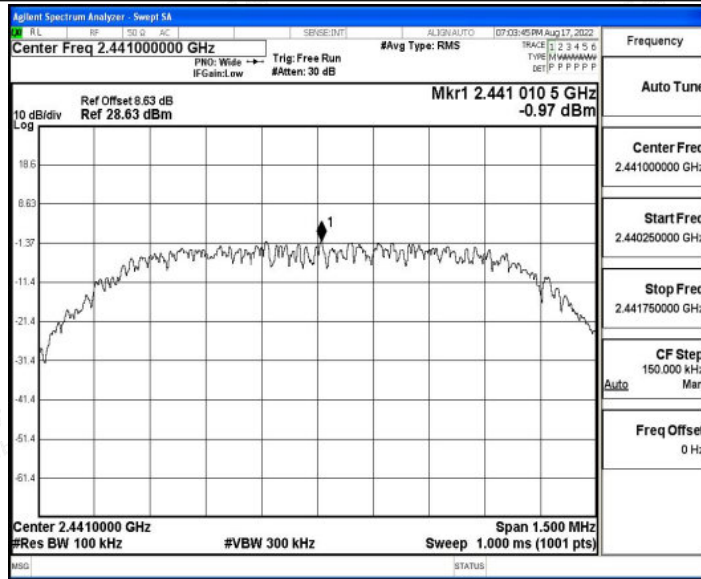


2DH5_Ant1_2402_1000~26500

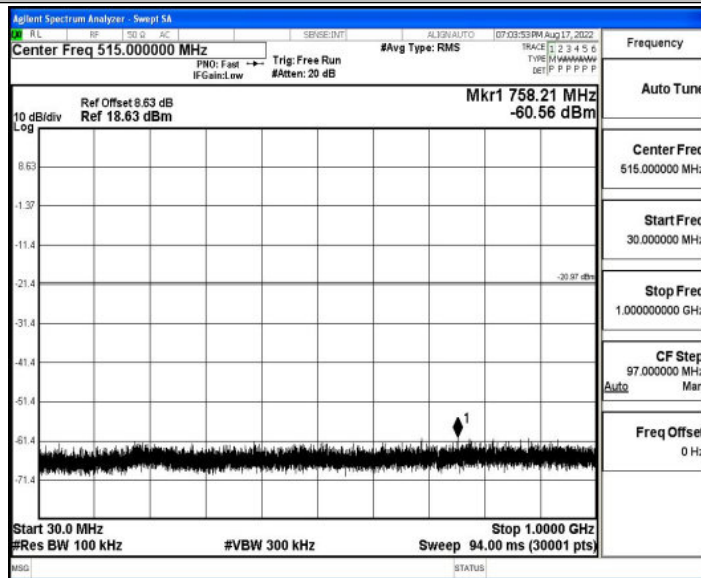


2DH5_Ant1_2441_0~Reference



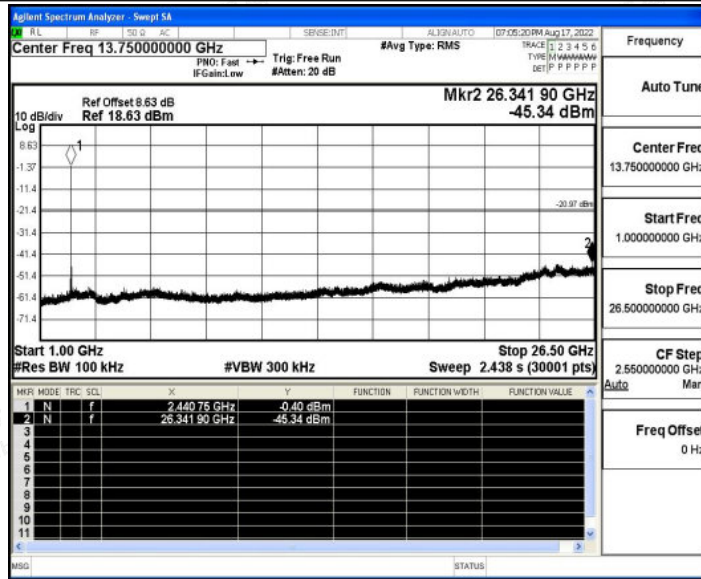


2DH5_Ant1_2441_30~1000

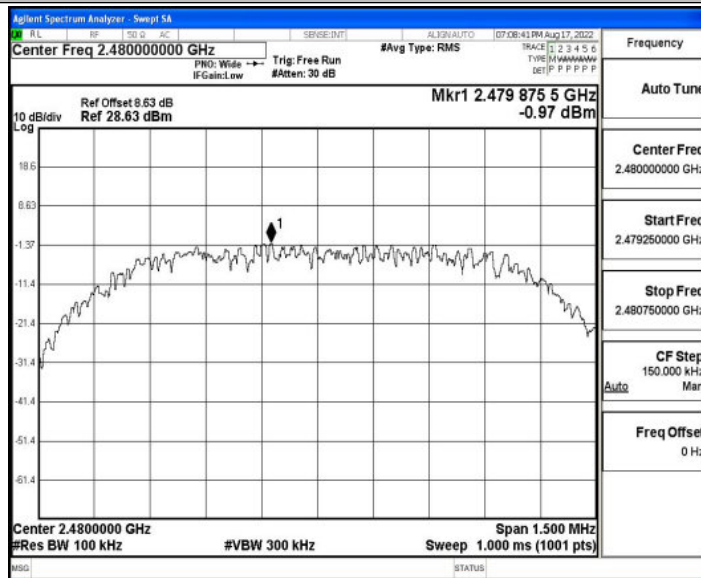


2DH5_Ant1_2441_1000~26500



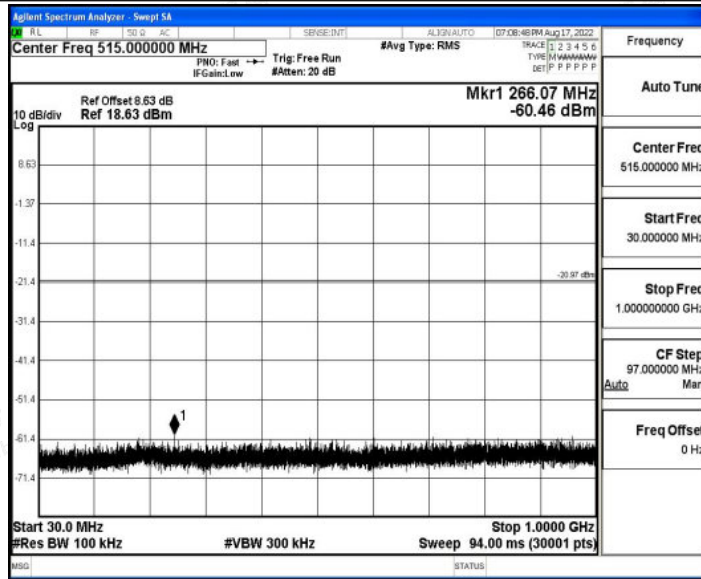


2DH5_Ant1_2480_0~Reference

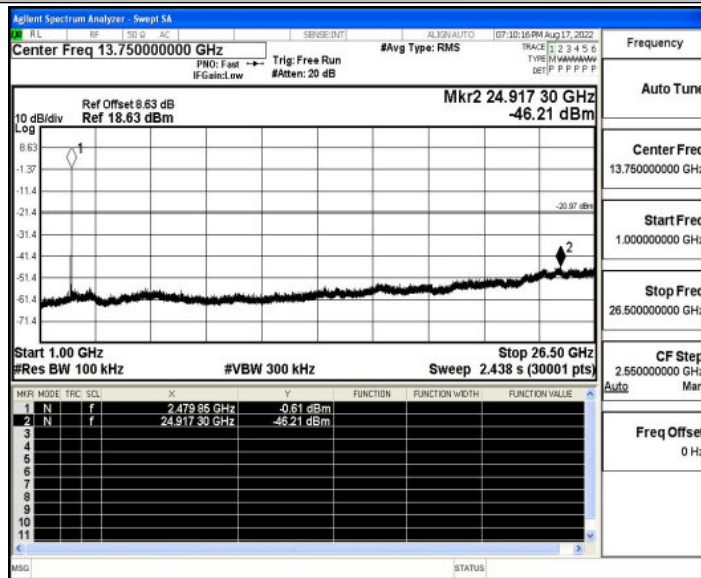


2DH5_Ant1_2480_30~1000



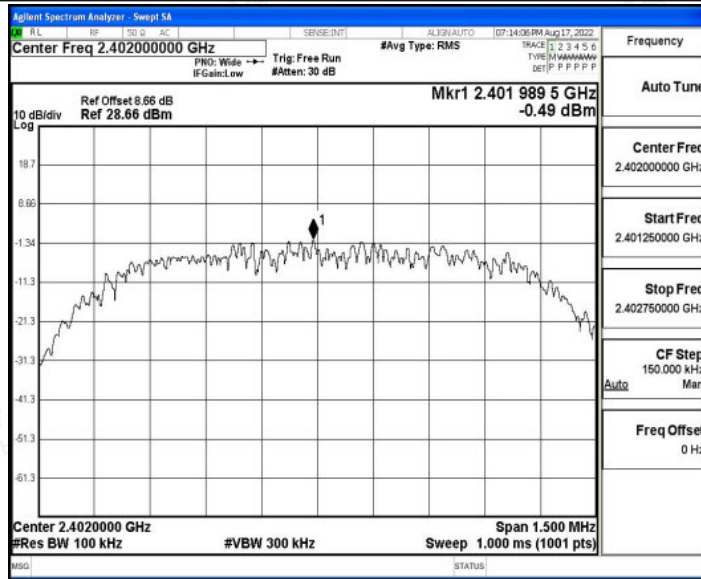


2DH5_Ant1_2480_1000~26500

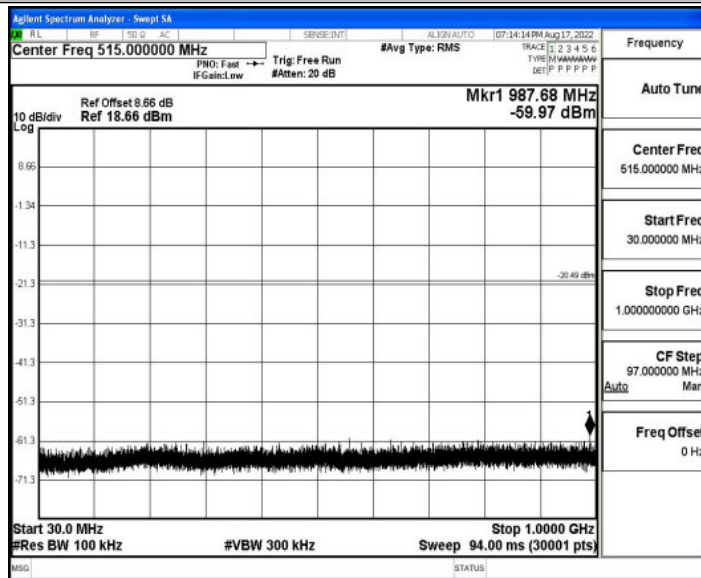


3DH5_Ant1_2402_0~Reference



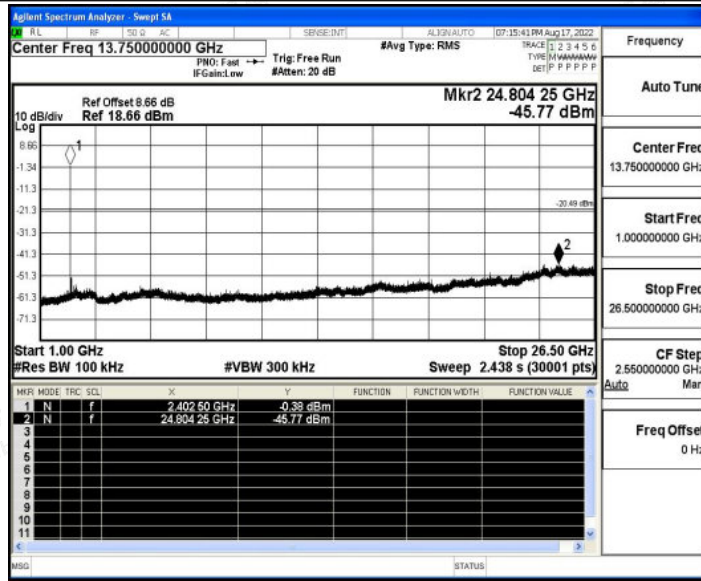


3DH5_Ant1_2402_30~1000

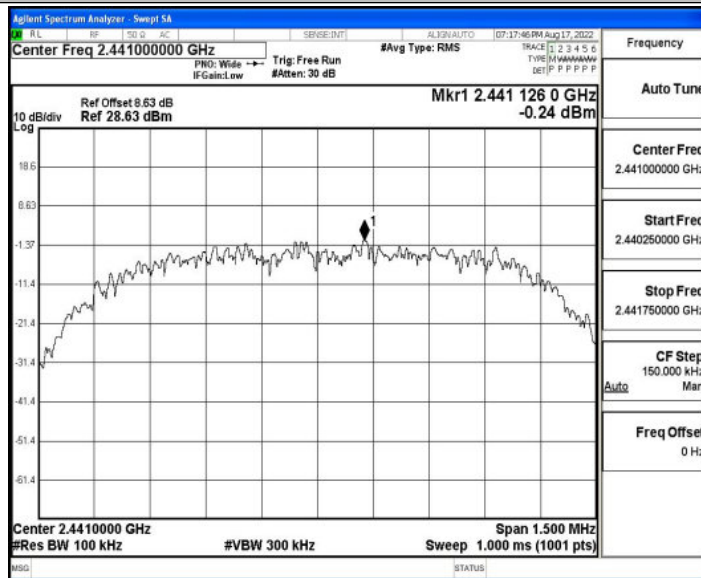


3DH5_Ant1_2402_1000~26500



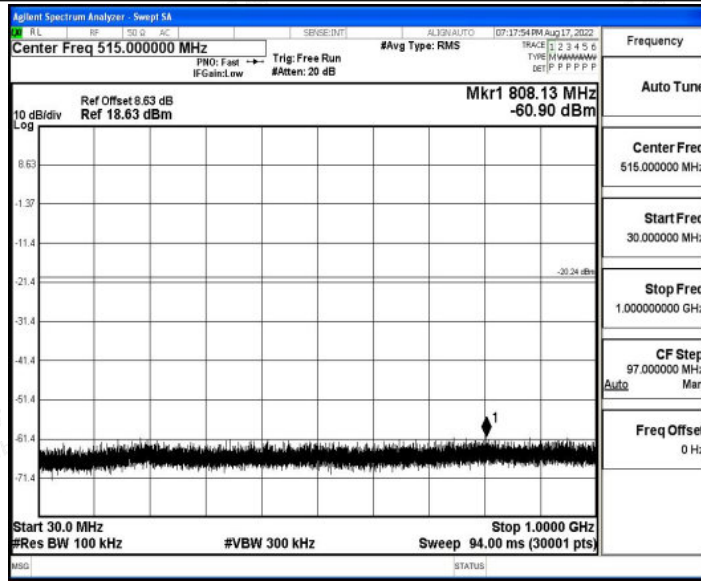


3DH5_Ant1_2441_0~Reference

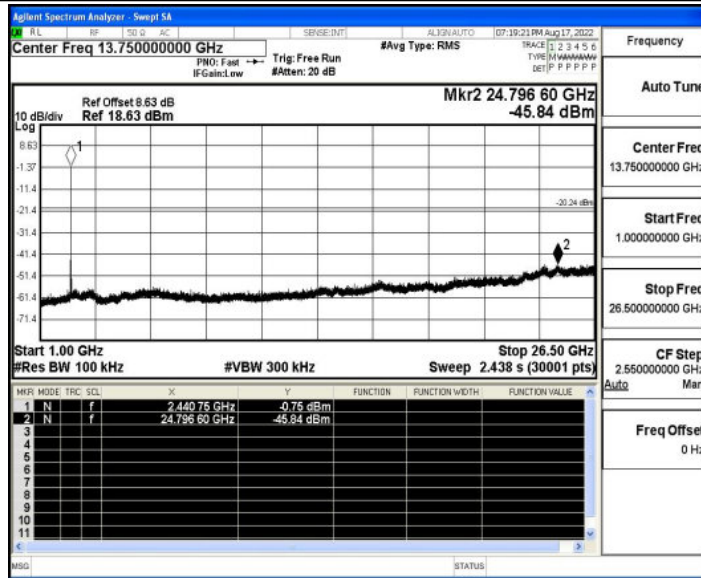


3DH5_Ant1_2441_30~1000



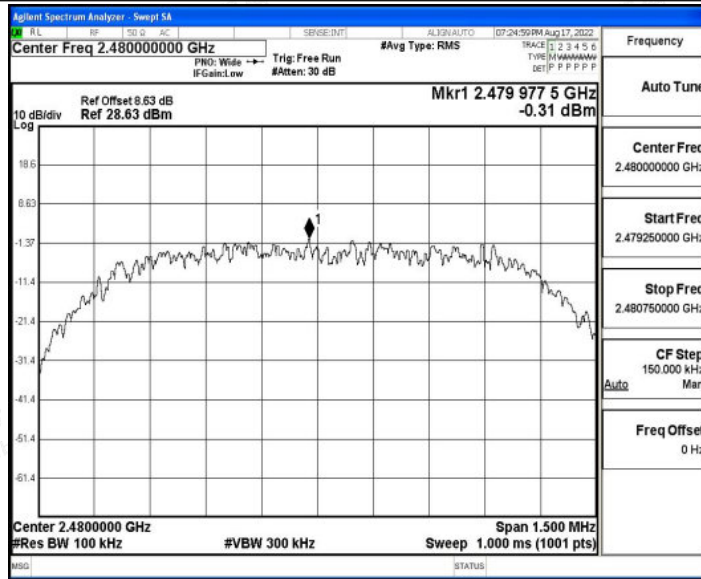


3DH5_Ant1_2441_1000~26500

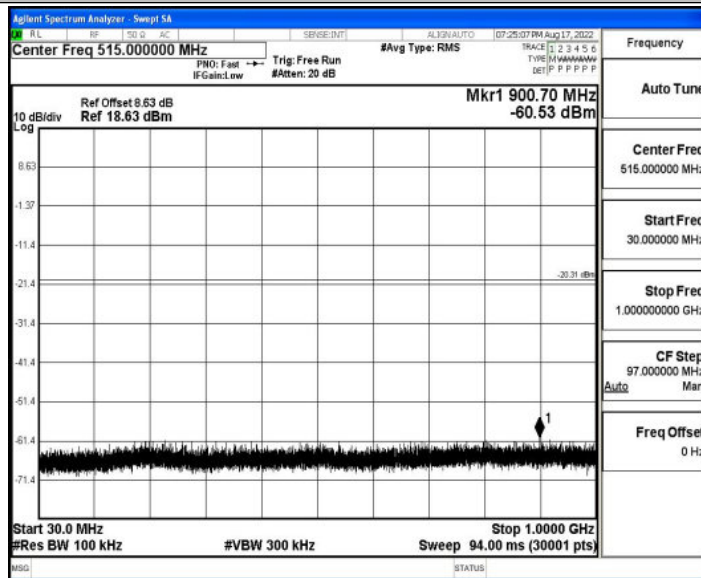


3DH5_Ant1_2480_0~Reference



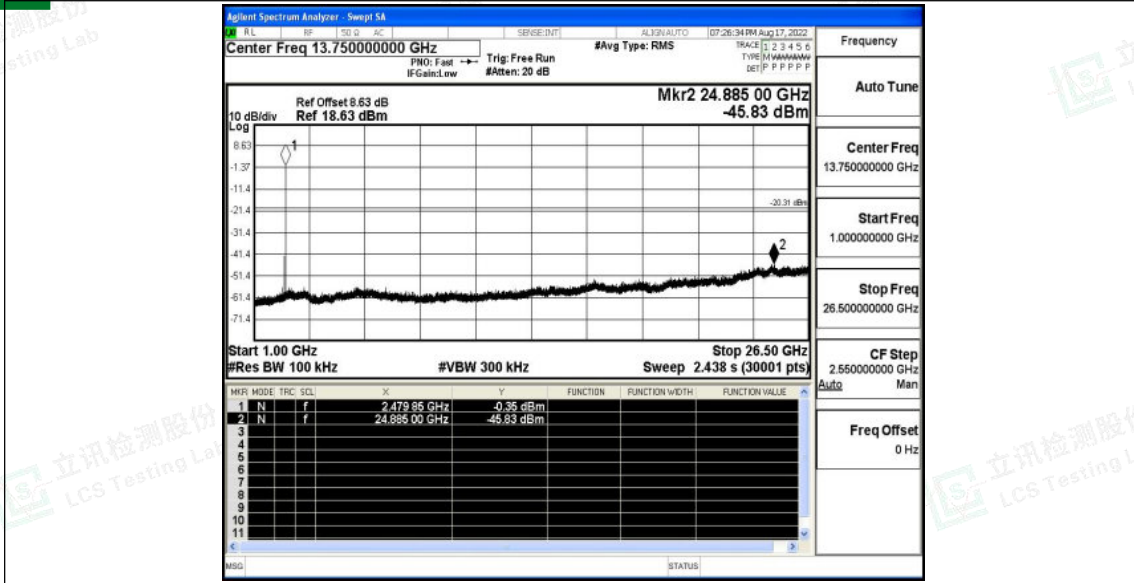


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500





**A.8 Emissions in Restricted Bands****Test Result**

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-58.23	≤-41.20	36.97	≤54	PASS
				AV	2322.050	-55.06	≤-41.20	40.14	≤54	PASS
				AV	2390.000	-57.18	≤-41.20	38.02	≤54	PASS
				Peak	2310.000	-53.9	≤-21.20	41.30	≤74	PASS
				Peak	2384.735	-45.89	≤-21.20	49.31	≤74	PASS
				Peak	2390.000	-50.03	≤-21.20	45.17	≤74	PASS
		High	2480	AV	2483.500	-52.92	≤-41.20	42.28	≤54	PASS
				AV	2483.520	-52.92	≤-41.20	42.28	≤54	PASS
				AV	2500.000	-57.09	≤-41.20	38.11	≤54	PASS
				Peak	2483.500	-50.35	≤-21.20	44.85	≤74	PASS
				Peak	2483.680	-45.84	≤-21.20	49.36	≤74	PASS
				Peak	2500.000	-52.63	≤-21.20	42.57	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.67	≤-21.20	45.53	≤74	PASS
				Peak	2349.350	-46.51	≤-21.20	48.69	≤74	PASS
				Peak	2390.000	-48.63	≤-21.20	46.57	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-46.38	≤-21.20	48.82	≤74	PASS
				Peak	2500.000	-46.33	≤-21.20	48.87	≤74	PASS
		2DH5	Ant1	Low	2402	AV	2310.000	-58.21	≤-41.20	36.99
AV	2322.050					-55.66	≤-41.20	39.54	≤54	PASS
AV	2390.000					-57.18	≤-41.20	38.02	≤54	PASS
Peak	2310.000					-50.6	≤-21.20	44.60	≤74	PASS
Peak	2386.310					-48.56	≤-21.20	46.64	≤74	PASS
Peak	2390.000					-51.08	≤-21.20	44.12	≤74	PASS
High	2480			AV	2483.500	-51.55	≤-41.20	43.65	≤54	PASS
				AV	2483.520	-51.55	≤-41.20	43.65	≤54	PASS
				AV	2500.000	-57.1	≤-41.20	38.10	≤54	PASS
				Peak	2483.500	-50.31	≤-21.20	44.89	≤74	PASS
				Peak	2485.440	-47.15	≤-21.20	48.05	≤74	PASS
				Peak	2500.000	-51.22	≤-21.20	43.98	≤74	PASS
Low	Hop_24 02			Peak	2310.000	-49.55	≤-21.20	45.65	≤74	PASS
				Peak	2356.280	-46.93	≤-21.20	48.27	≤74	PASS
				Peak	2390.000	-48.3	≤-21.20	46.90	≤74	PASS
High	Hop_24 80			Peak	2483.500	-47.95	≤-21.20	47.25	≤74	PASS
				Peak	2487.520	-45.71	≤-21.20	49.49	≤74	PASS
				Peak	2500.000	-48.07	≤-21.20	47.13	≤74	PASS



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Scan code to check authenticity



3DH5	Ant1	Low	2402	AV	2310.000	-58.2	≤-41.20	37.00	≤54	PASS
				AV	2321.945	-55.55	≤-41.20	39.65	≤54	PASS
				AV	2390.000	-57.15	≤-41.20	38.05	≤54	PASS
				Peak	2310.000	-50.63	≤-21.20	44.57	≤74	PASS
				Peak	2369.405	-48.12	≤-21.20	47.08	≤74	PASS
				Peak	2390.000	-50.54	≤-21.20	44.66	≤74	PASS
		High	2480	AV	2483.500	-51.49	≤-41.20	43.71	≤54	PASS
				AV	2483.520	-51.49	≤-41.20	43.71	≤54	PASS
				AV	2500.000	-57.06	≤-41.20	38.14	≤54	PASS
				Peak	2483.500	-49.31	≤-21.20	45.89	≤74	PASS
				Peak	2485.360	-46.96	≤-21.20	48.24	≤74	PASS
				Peak	2500.000	-52.18	≤-21.20	43.02	≤74	PASS
	Low	Hop_24 02	Peak	2310.000	-49.92	≤-21.20	45.28	≤74	PASS	
			Peak	2315.960	-46.74	≤-21.20	48.46	≤74	PASS	
			Peak	2390.000	-49.84	≤-21.20	45.36	≤74	PASS	
	High	Hop_24 80	Peak	2483.500	-48.08	≤-21.20	47.12	≤74	PASS	
			Peak	2499.520	-45.61	≤-21.20	49.59	≤74	PASS	
			Peak	2500.000	-48.4	≤-21.20	46.80	≤74	PASS	

Note:

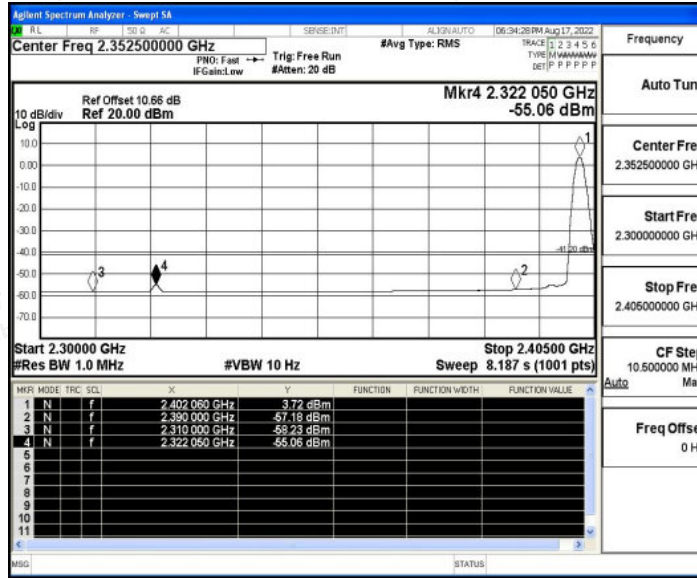
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



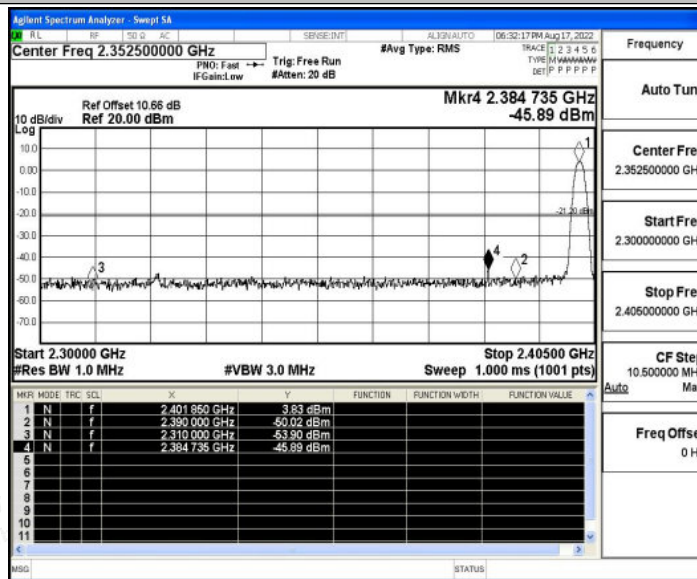


Test Graphs

DH5_Ant1_Low_2402_AV

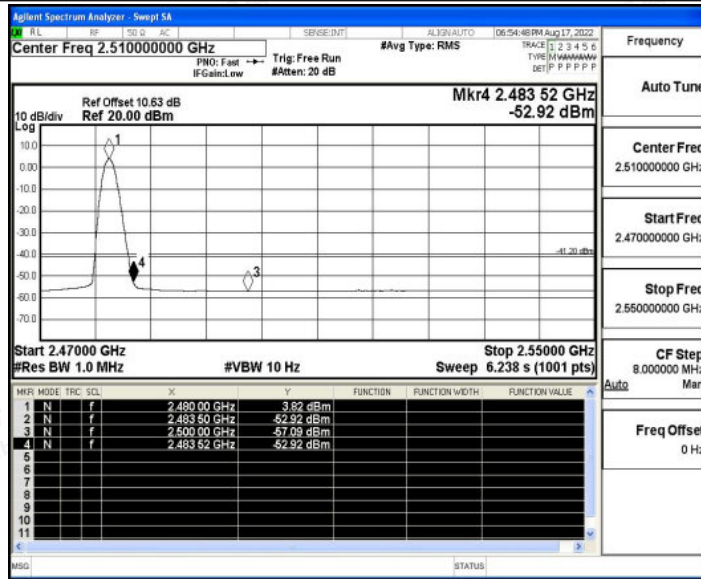


DH5_Ant1_Low_2402_Peak

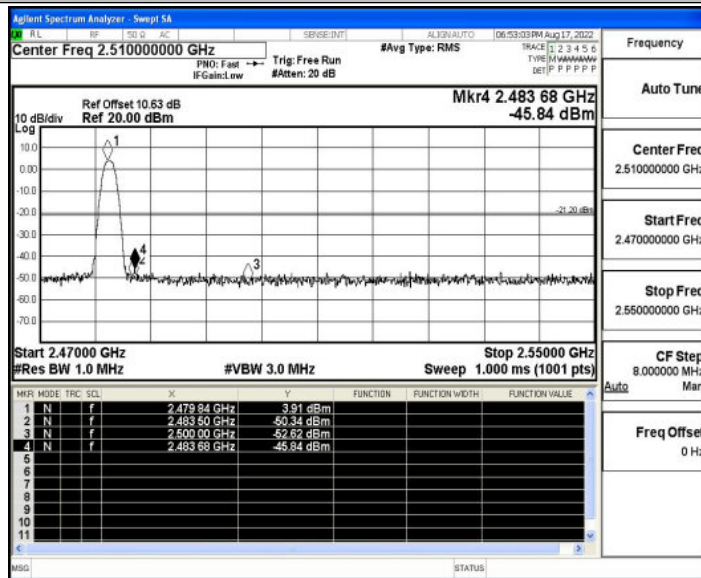


DH5_Ant1_High_2480_AV



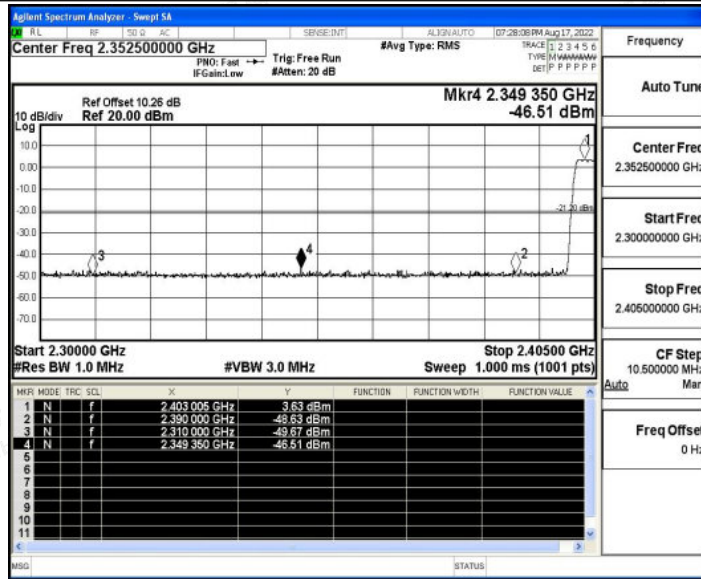


DH5_Ant1_High_2480_Peak

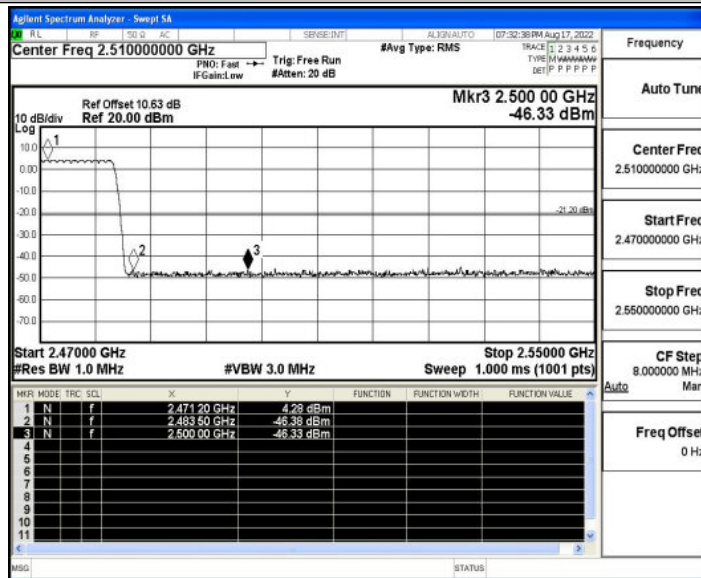


DH5_Ant1_Low_Hop_2402_Peak



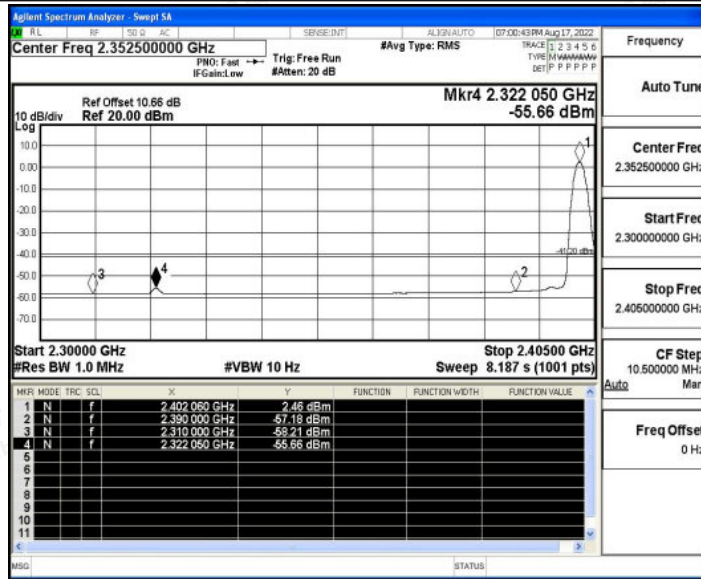


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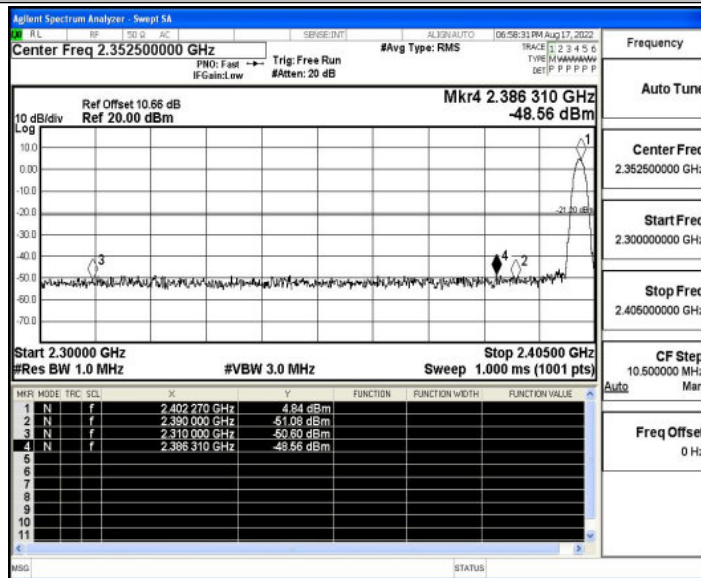


2DH5_Ant1_Low_2402_AV



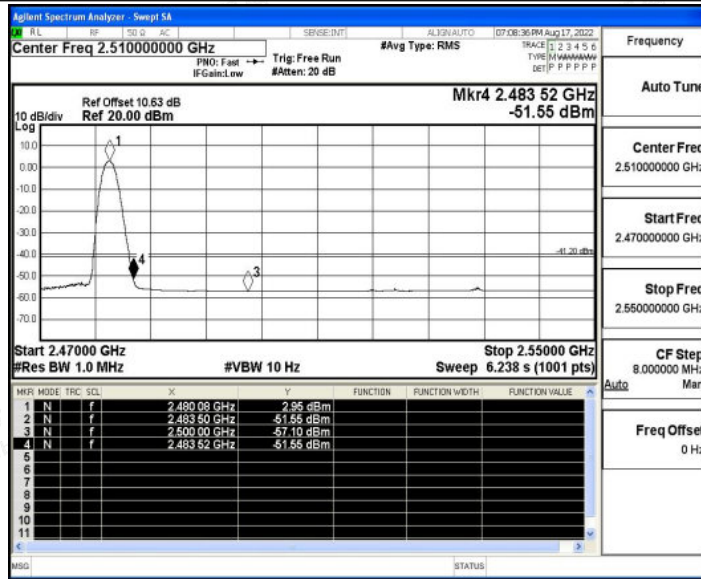


2DH5_Ant1_Low_2402_Peak

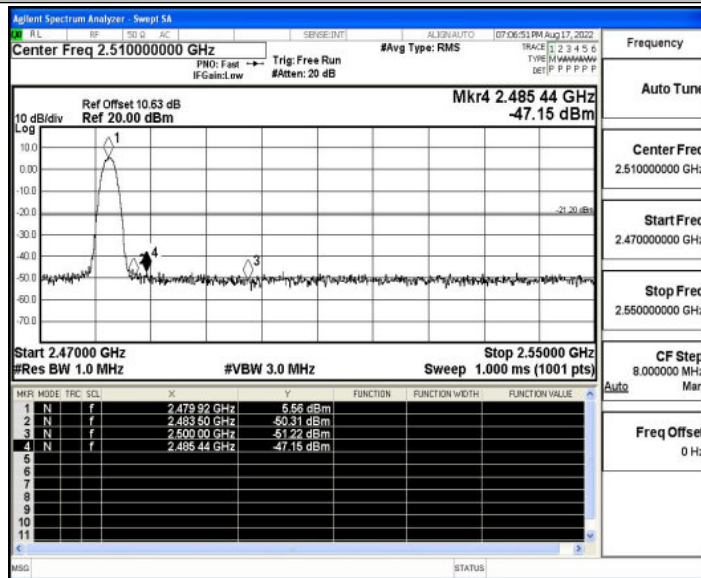


2DH5_Ant1_High_2480_AV



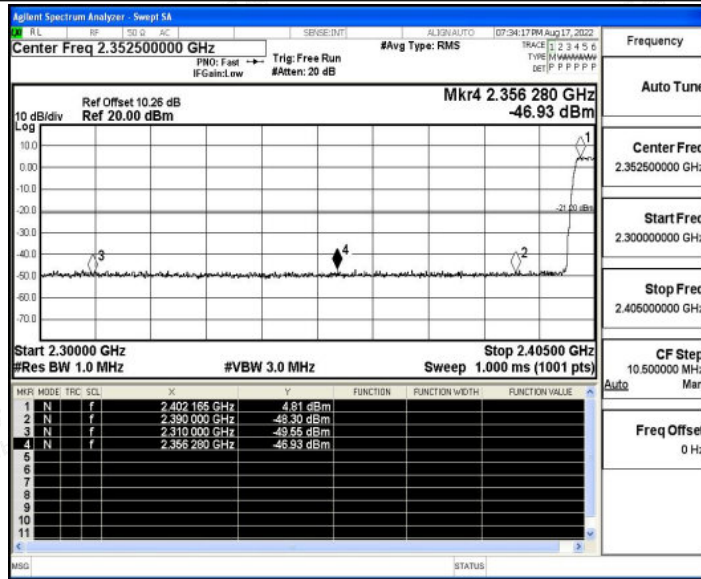


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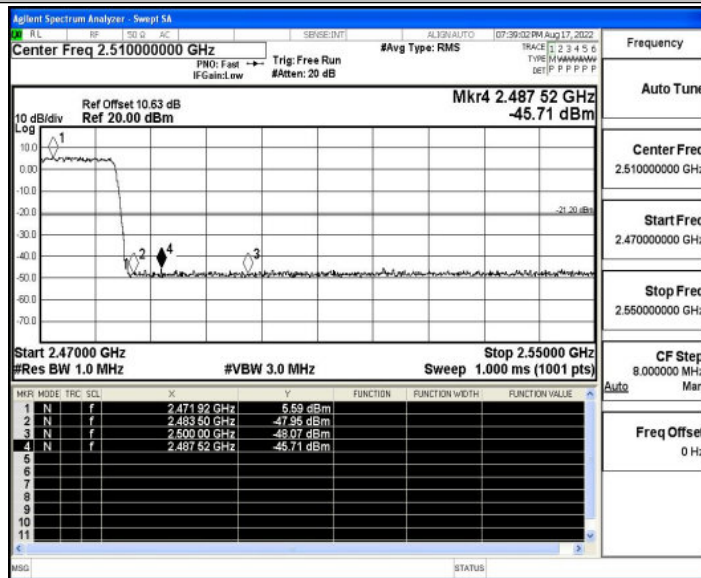


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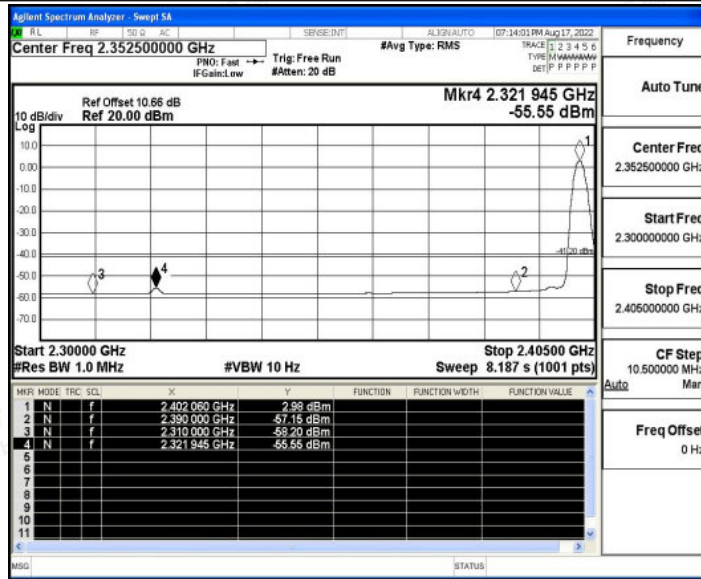


2DH5_Ant1_High_Hop_2480_Peak

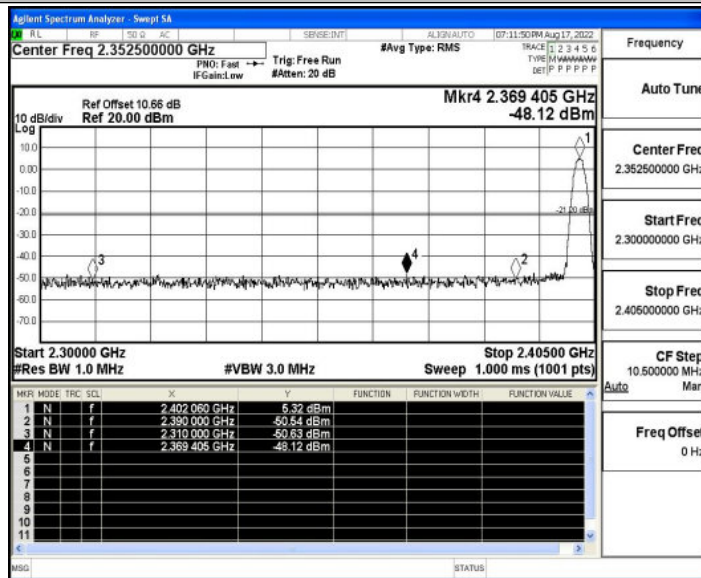


3DH5_Ant1_Low_2402_AV



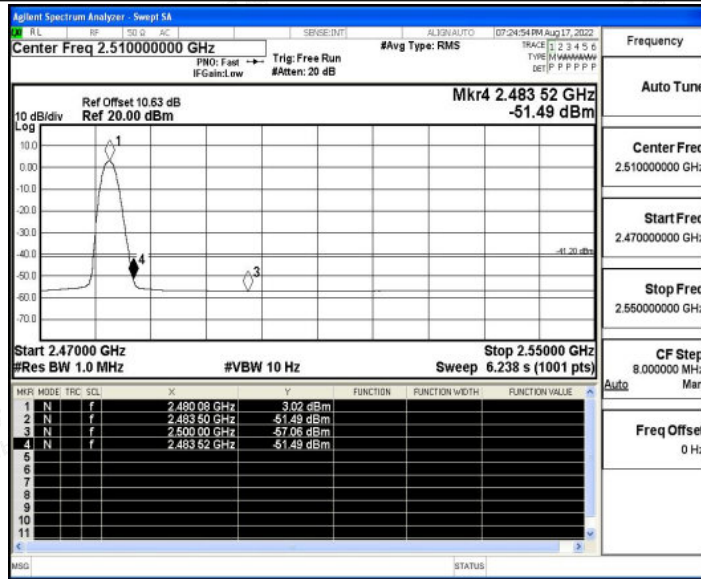


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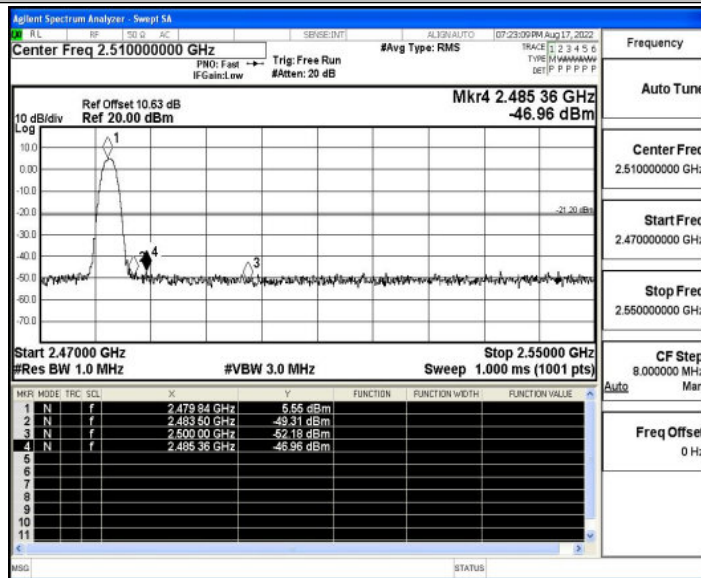


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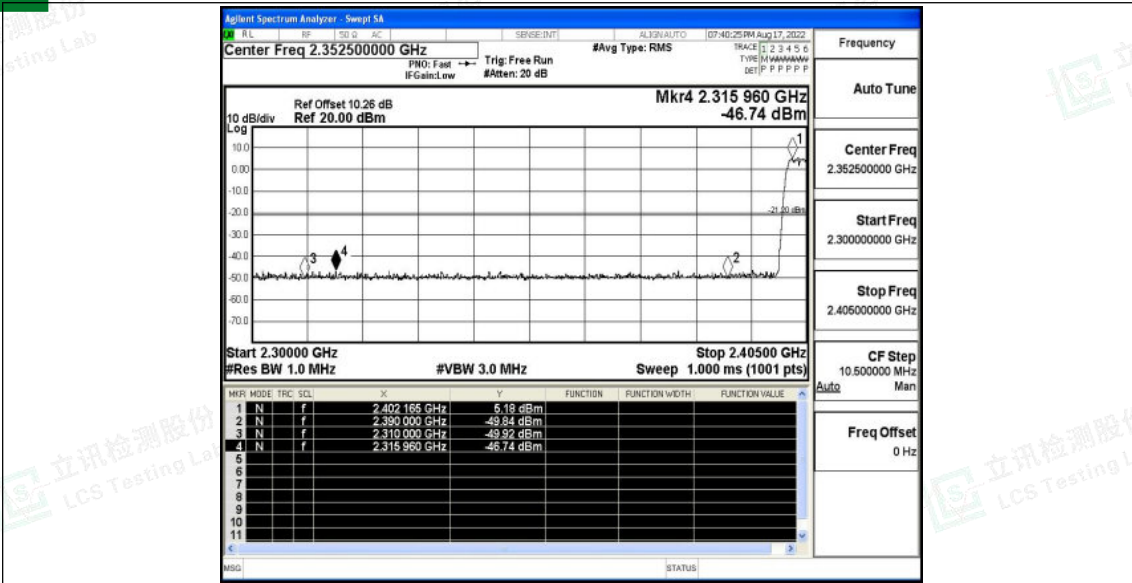


3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak

