



## Appendix A

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

**Product Name: Smart phone**

**Test Model: NOVA 6.5**

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan





### A.1 20dB Emission Bandwidth

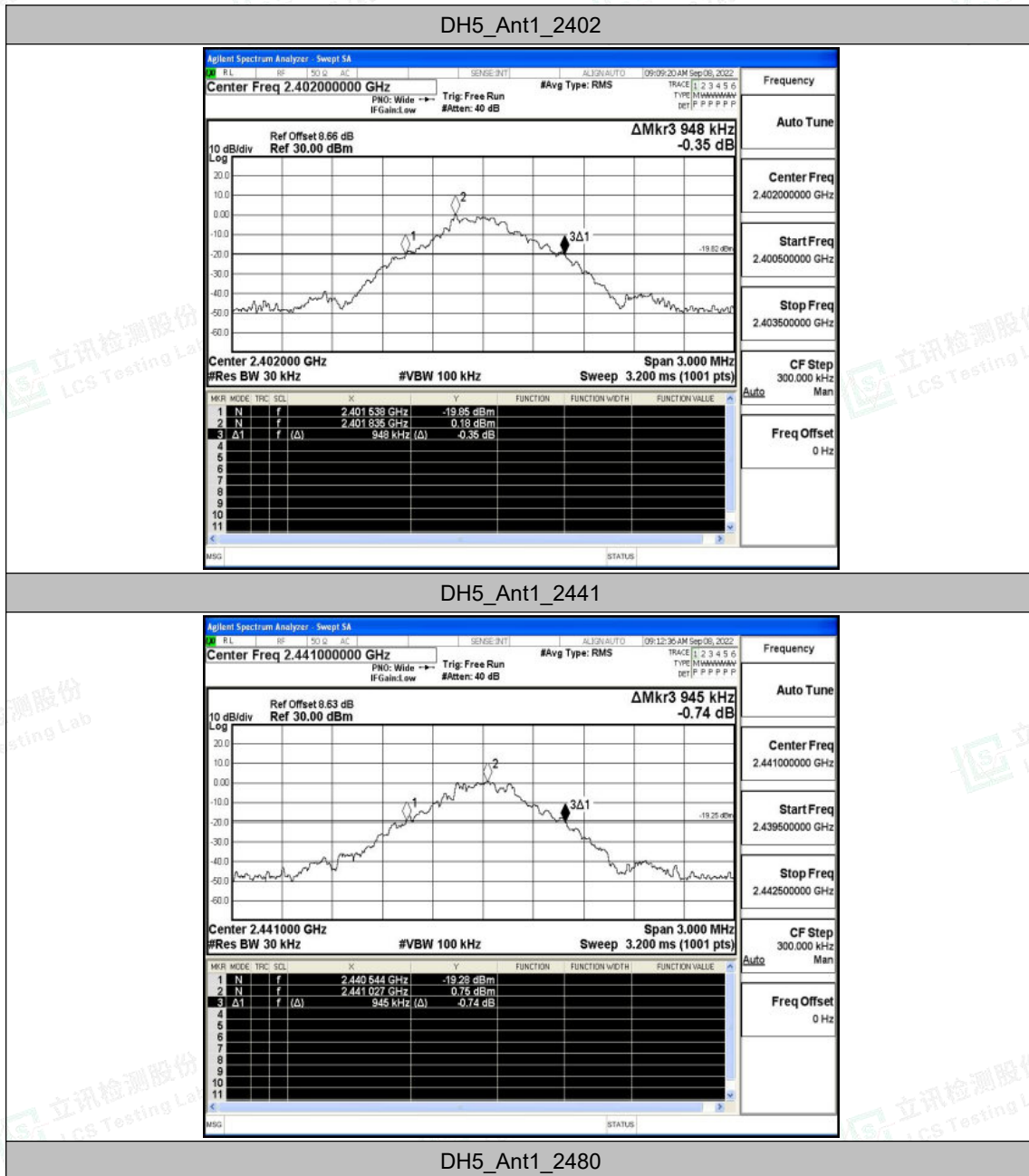
#### Test Result

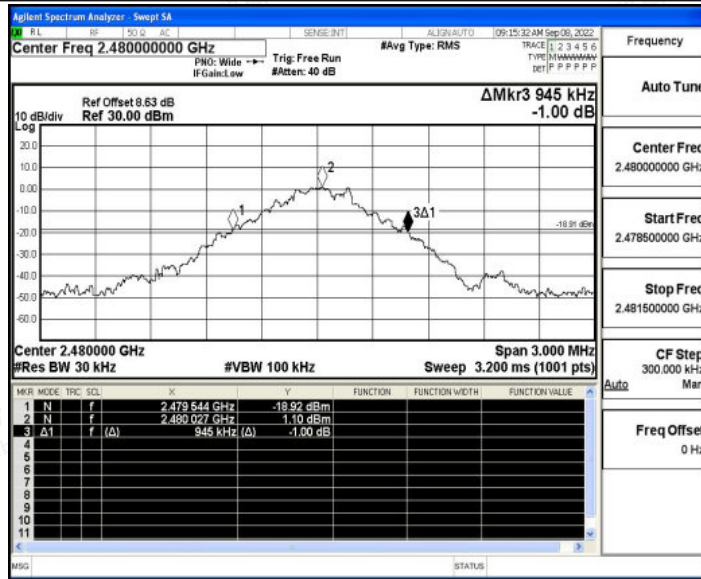
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---
		2441	0.945	2440.544	2441.489	---
		2480	0.945	2479.544	2480.489	---
2DH5	Ant1	2402	1.320	2401.337	2402.657	---
		2441	1.347	2440.325	2441.672	---
		2480	1.335	2479.331	2480.666	---
3DH5	Ant1	2402	1.284	2401.346	2402.630	---
		2441	1.293	2440.346	2441.639	---
		2480	1.326	2479.340	2480.666	---



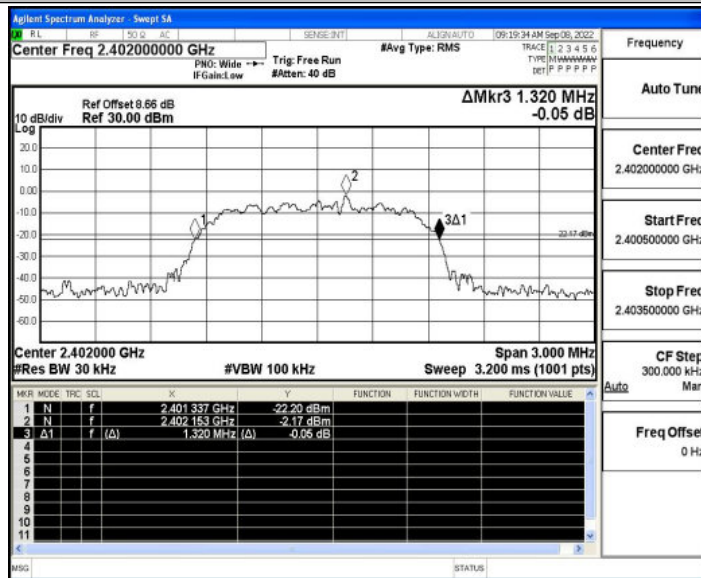


### Test Graphs



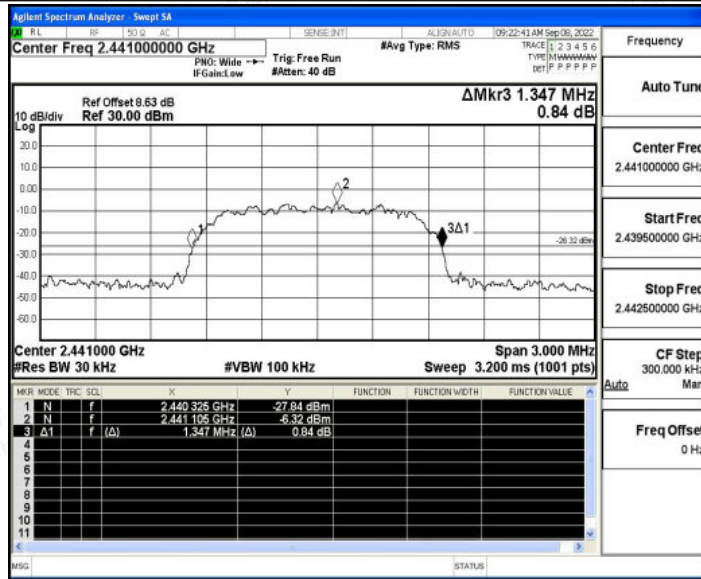


2DH5\_Ant1\_2402

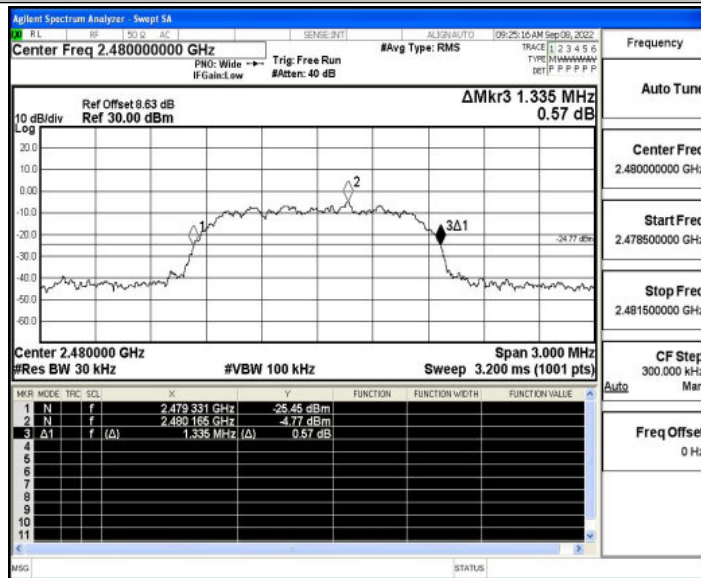


2DH5\_Ant1\_2441



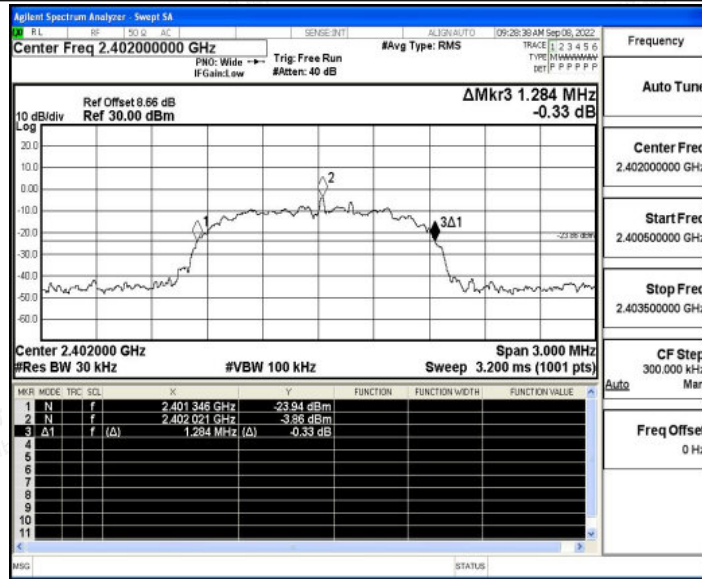


2D H5\_Ant1\_2480

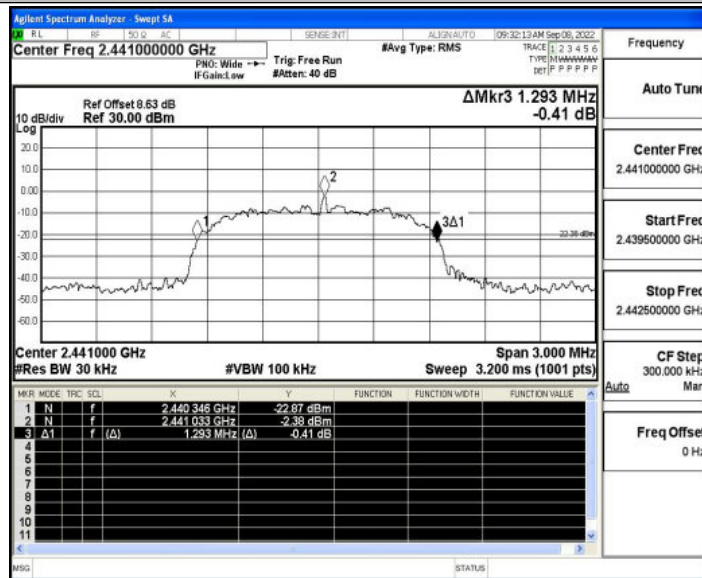


3D H5\_Ant1\_2402





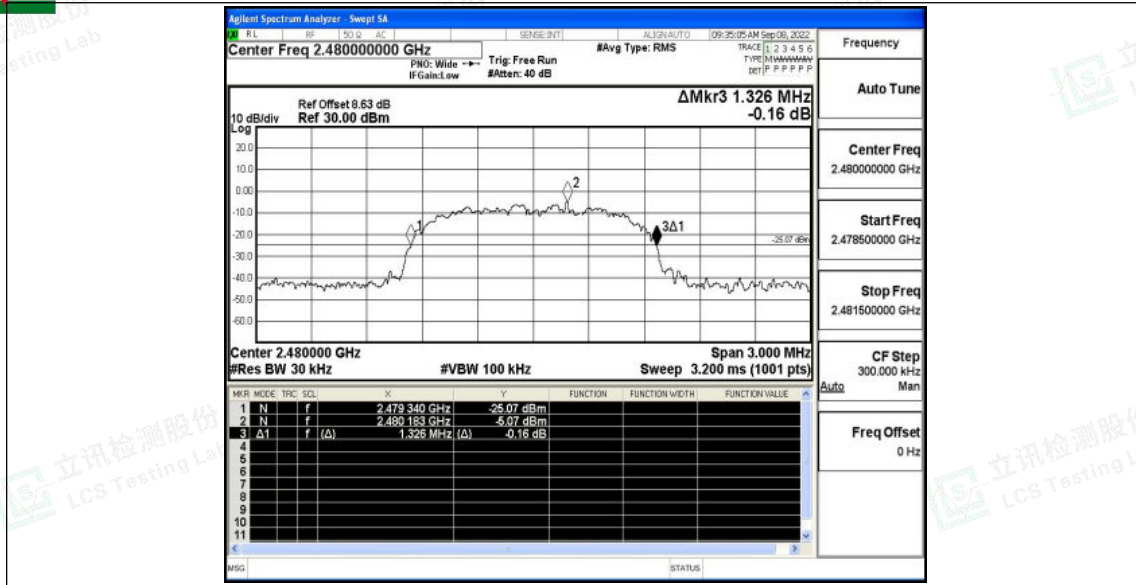
3DH5\_Ant1\_2441



3DH5\_Ant1\_2480









## A.2 Maximum conducted output power

### Test Result

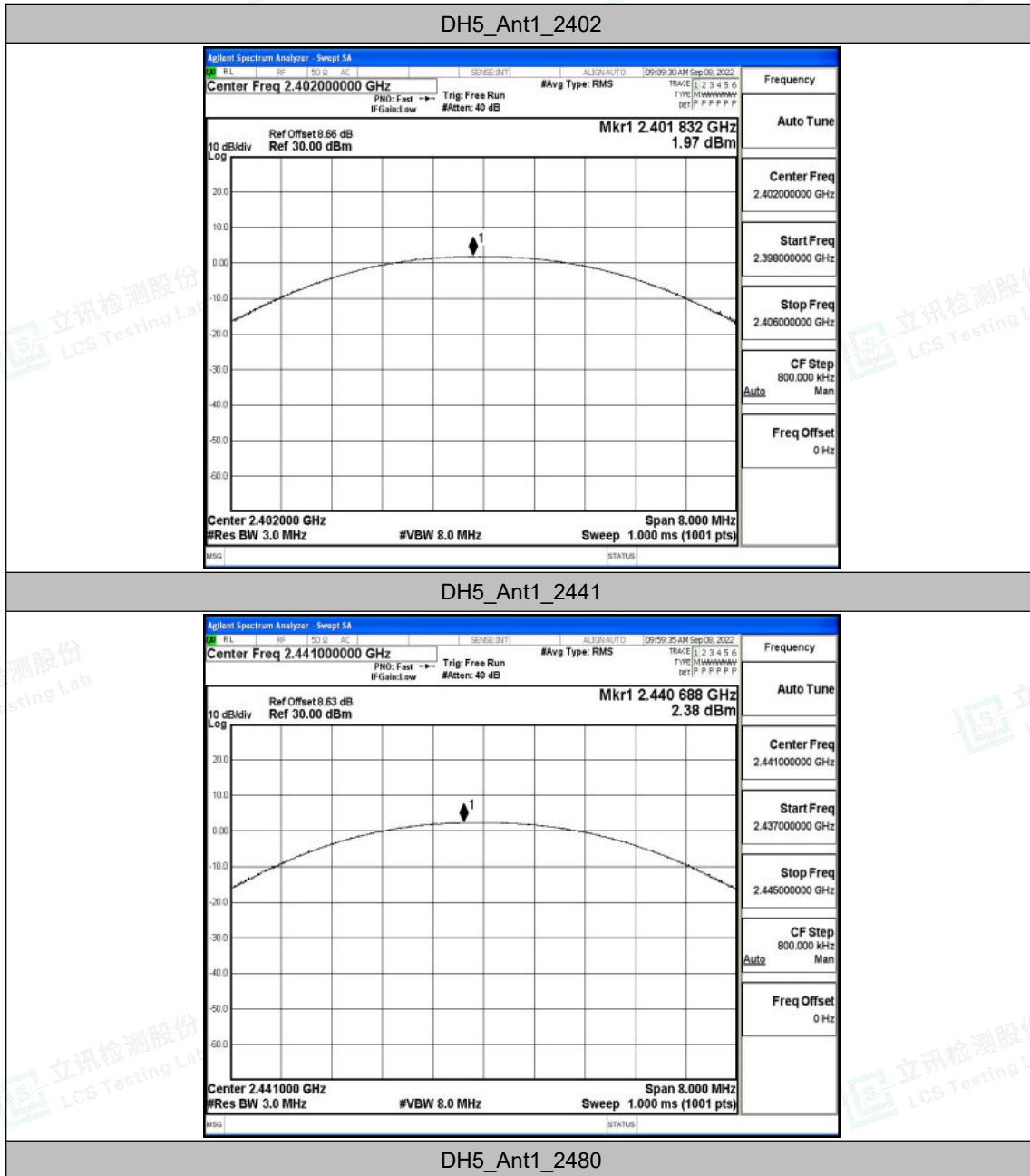
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.97	≤20.97	PASS
		2441	2.38	≤20.97	PASS
		2480	2.63	≤20.97	PASS
2DH5	Ant1	2402	1.03	≤20.97	PASS
		2441	2.31	≤20.97	PASS
		2480	2.75	≤20.97	PASS
3DH5	Ant1	2402	1.38	≤20.97	PASS
		2441	2.81	≤20.97	PASS
		2480	2.45	≤20.97	PASS

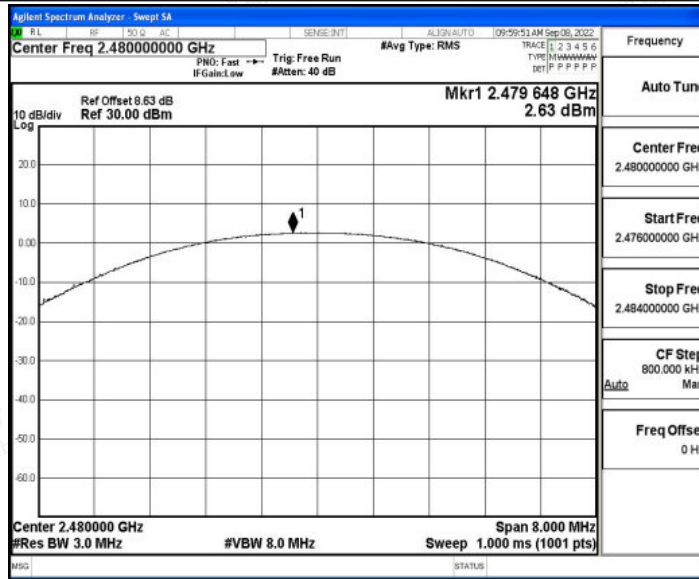




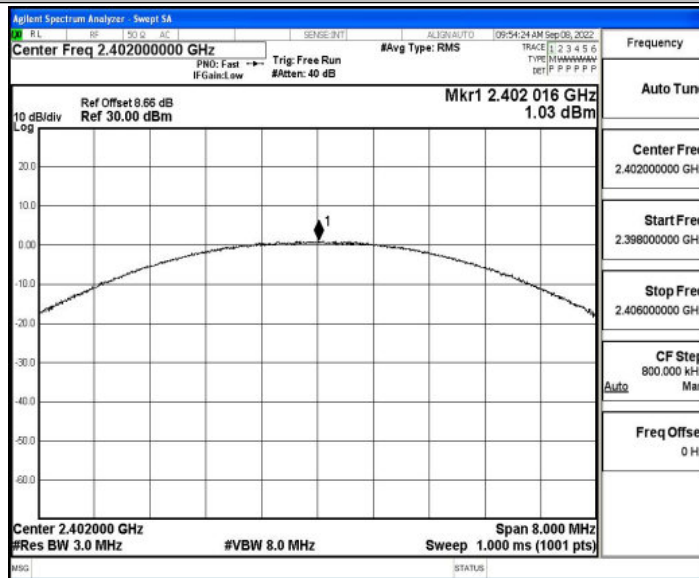


### Test Graphs



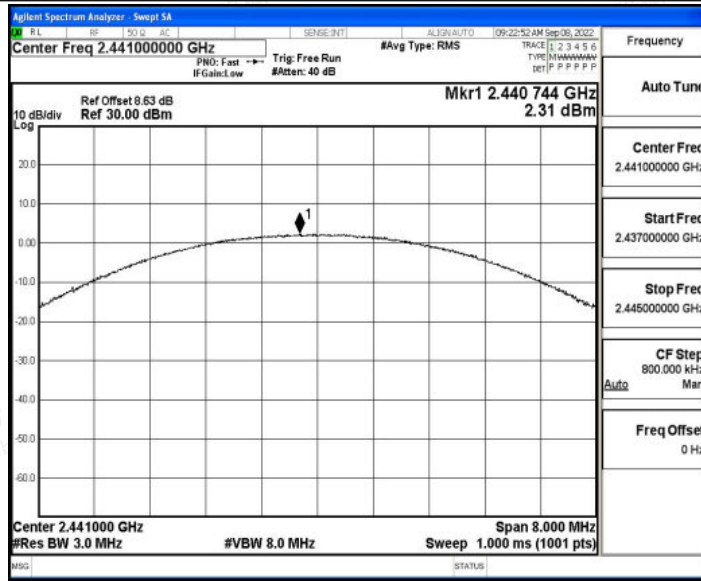


2DH5\_Ant1\_2402

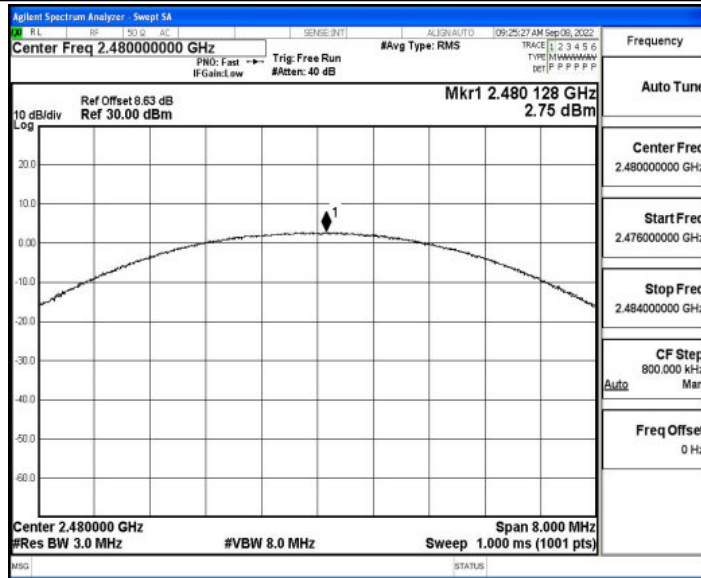


2DH5\_Ant1\_2441



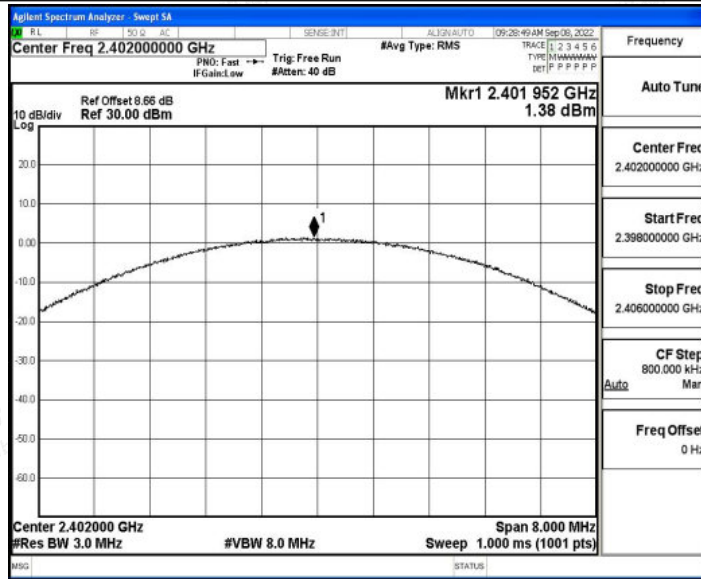


2DH5\_Ant1\_2480

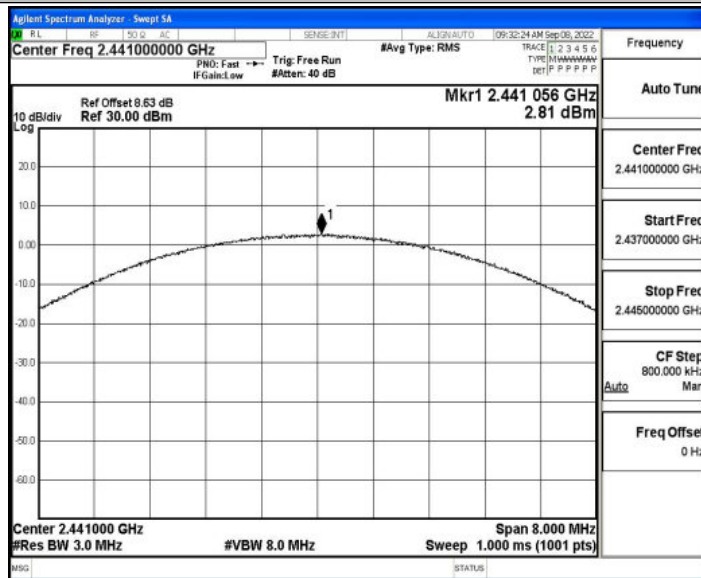


3DH5\_Ant1\_2402



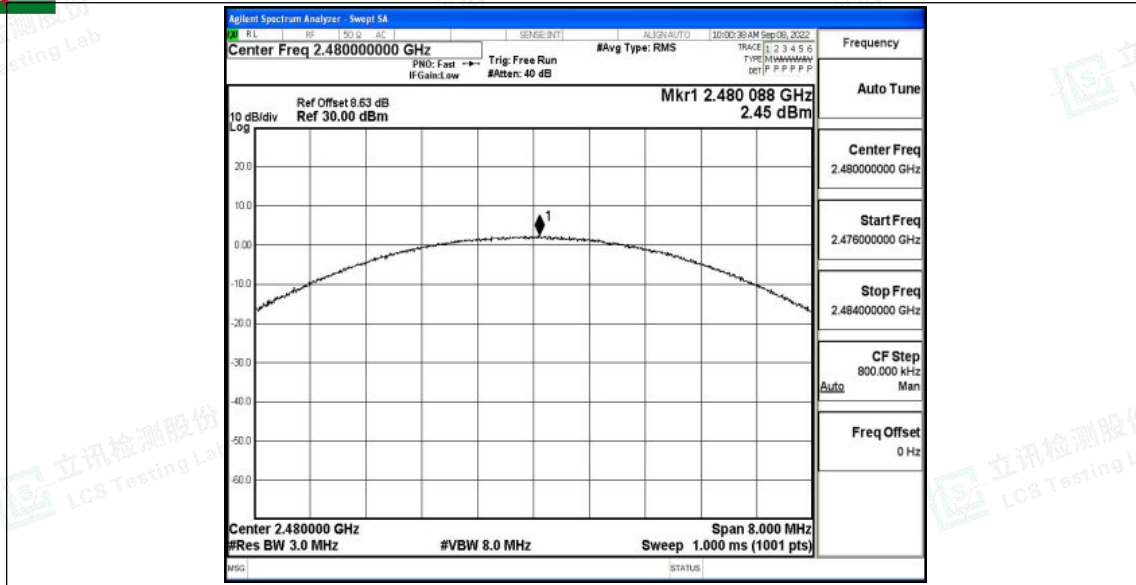


3DH5\_Ant1\_2441



3DH5\_Ant1\_2480







### A.3 Carrier frequency separation

#### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.214	≥0.948	PASS
2DH5	Ant1	Hop	1	≥0.898	PASS
3DH5	Ant1	Hop	1.664	≥1.326	PASS

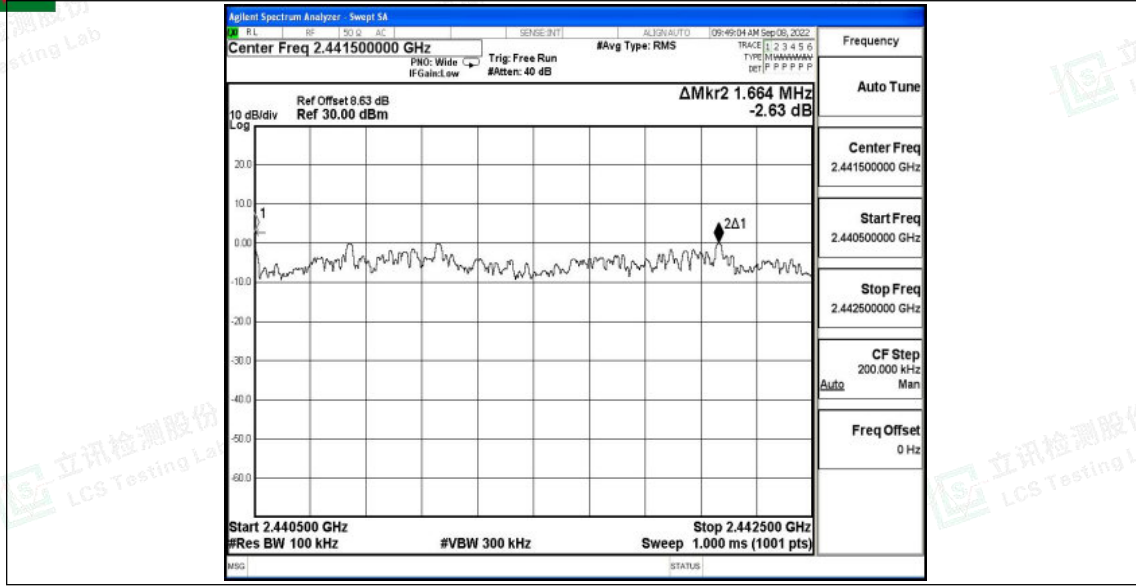






### Test Graphs







### A.4 Time of occupancy

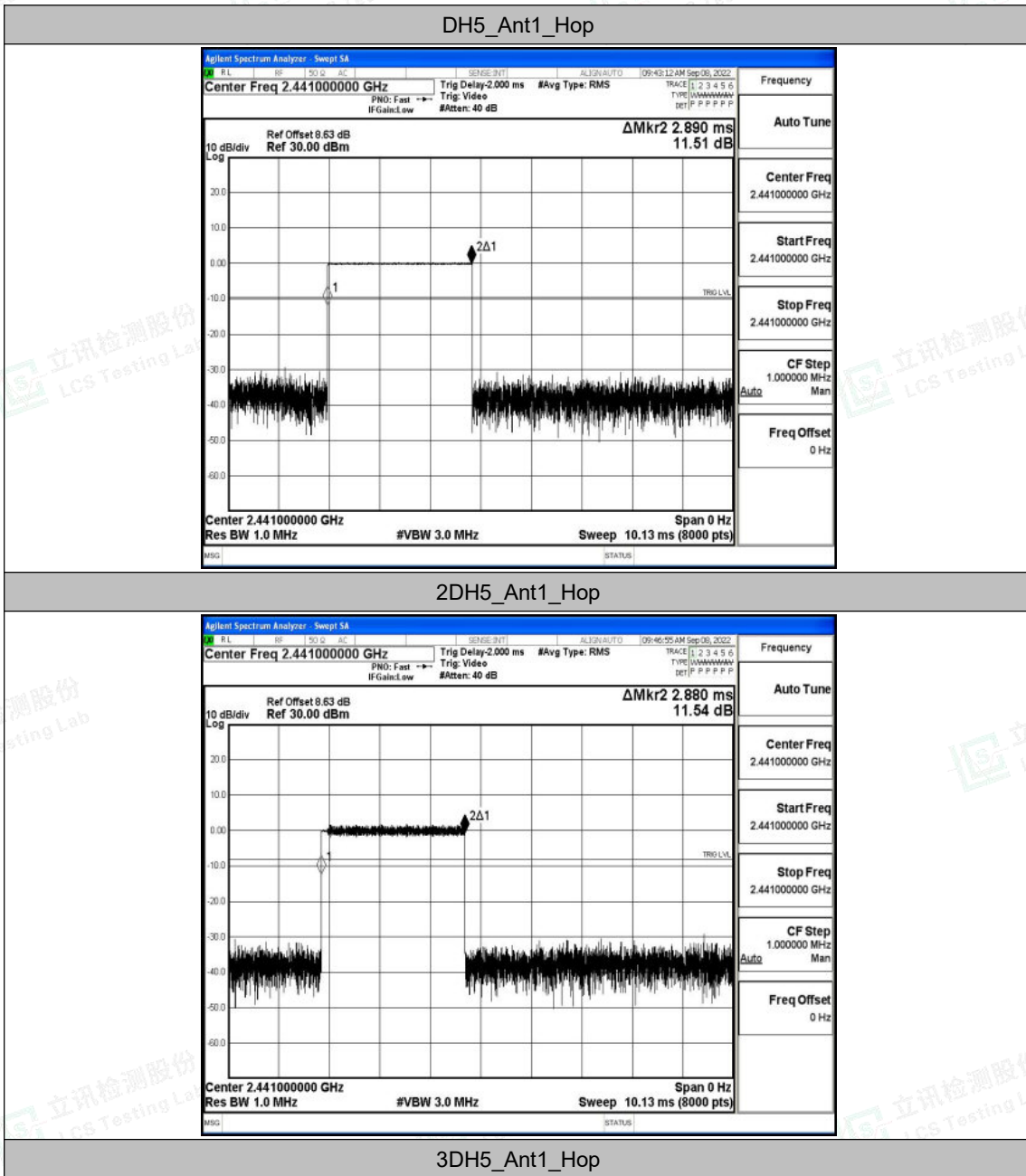
#### Test Result

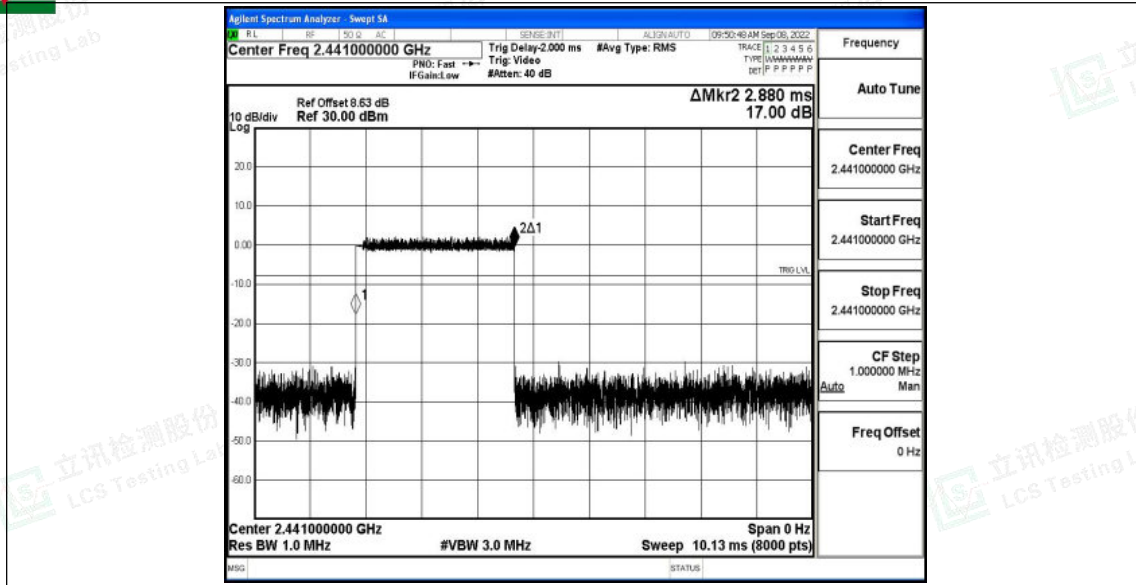
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS





### Test Graphs







## A.5 Number of hopping channels

### Test Result

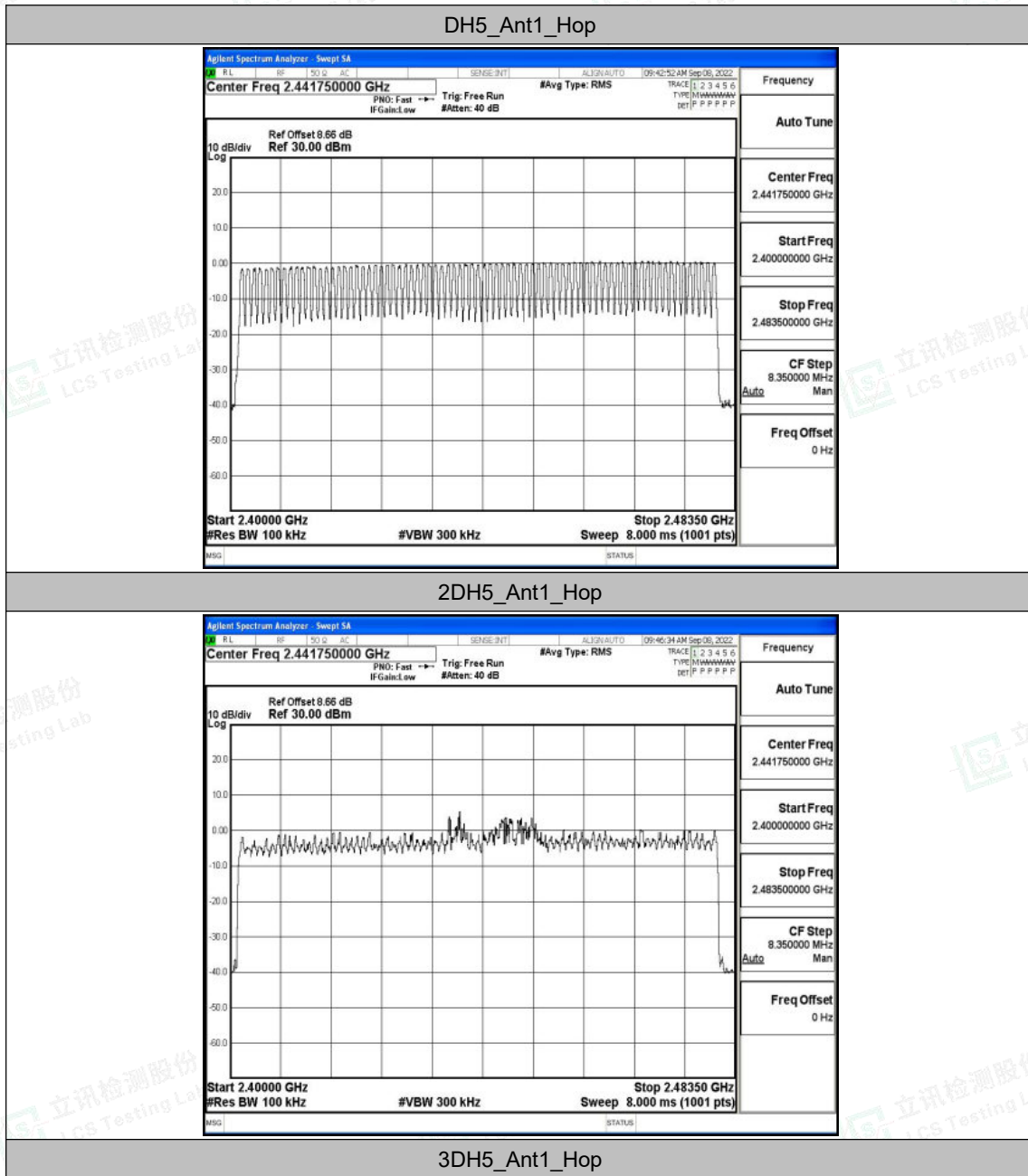
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

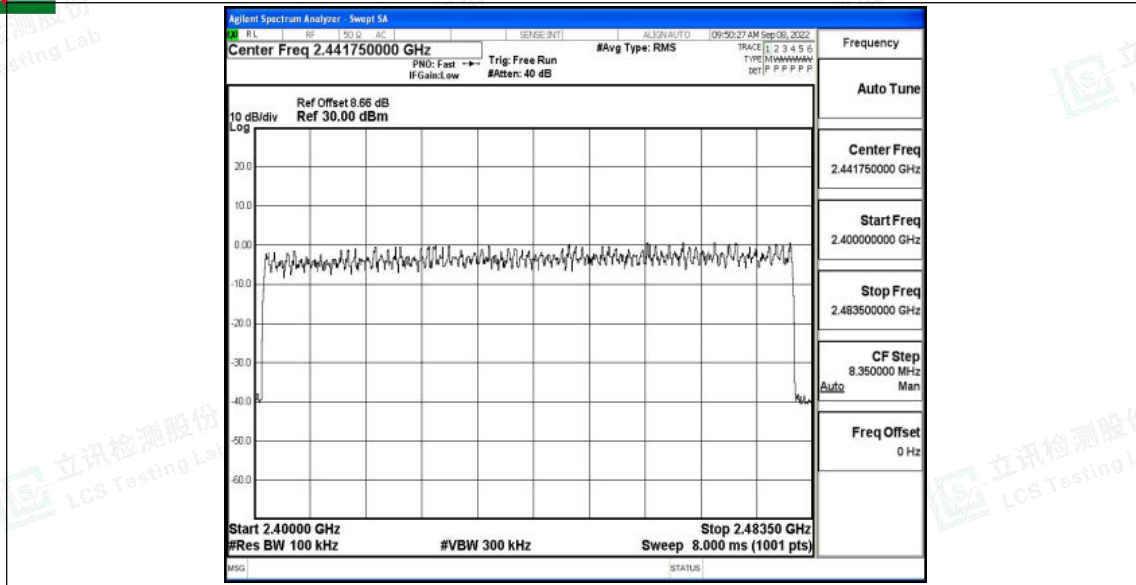






### Test Graphs







### A.6 Band edge measurements

#### Test Result

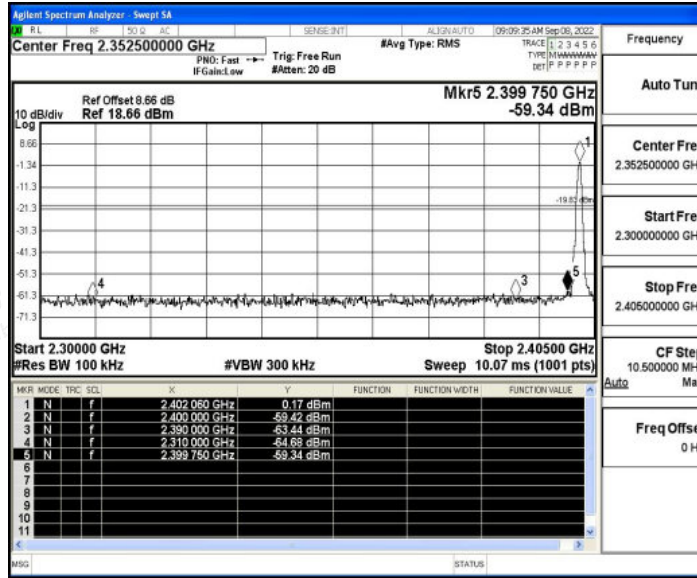
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.17	-59.34	≤-19.83	PASS
		High	2480	1.61	-58.85	≤-18.39	PASS
		Low	Hop_2402	-1.77	-57.21	≤-21.77	PASS
		High	Hop_2480	0.25	-57.34	≤-19.76	PASS
2DH5	Ant1	Low	2402	1.08	-56.07	≤-18.92	PASS
		High	2480	-3.19	-59.31	≤-23.19	PASS
		Low	Hop_2402	-3.76	-58.94	≤-23.76	PASS
		High	Hop_2480	-0.64	-57.5	≤-20.64	PASS
3DH5	Ant1	Low	2402	-4.70	-54.78	≤-24.7	PASS
		High	2480	-2.27	-59.23	≤-22.27	PASS
		Low	Hop_2402	-5.23	-59.3	≤-25.23	PASS
		High	Hop_2480	0.34	-57.68	≤-19.66	PASS



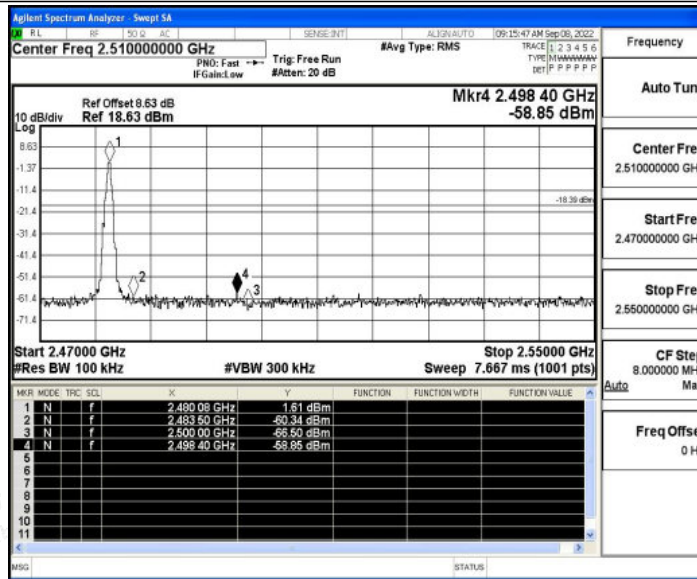


### Test Graphs

#### DH5\_Ant1\_Low\_2402

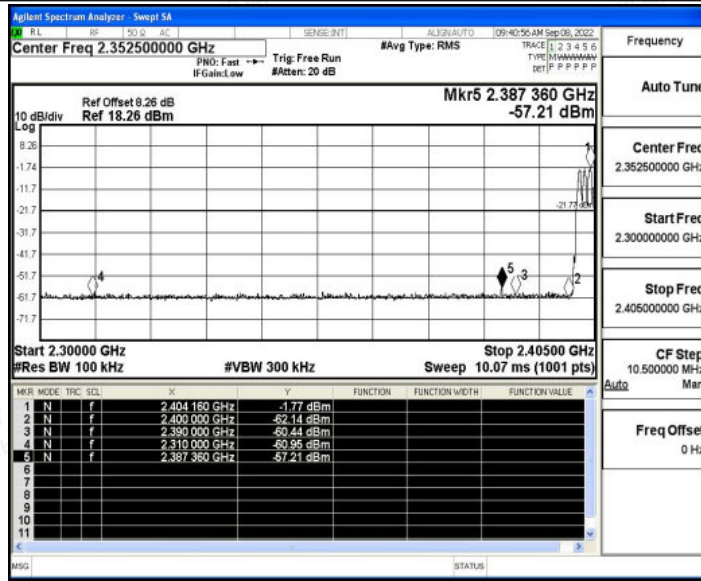


#### DH5\_Ant1\_High\_2480

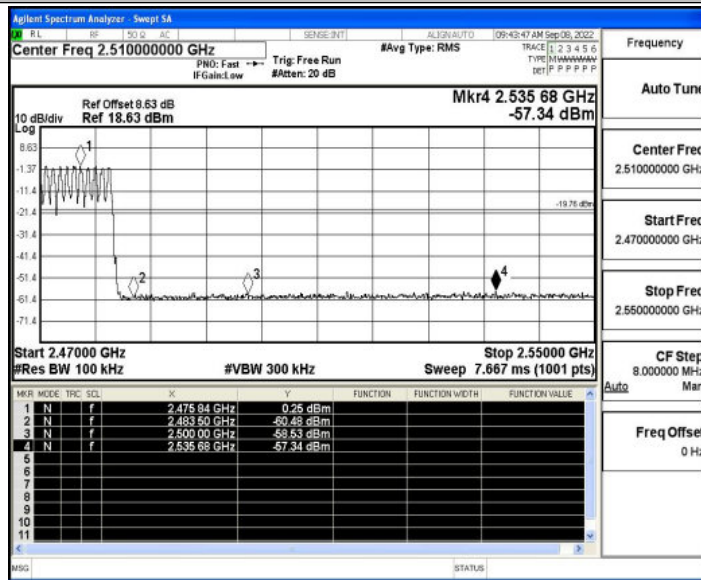


#### DH5\_Ant1\_Low\_Hop\_2402





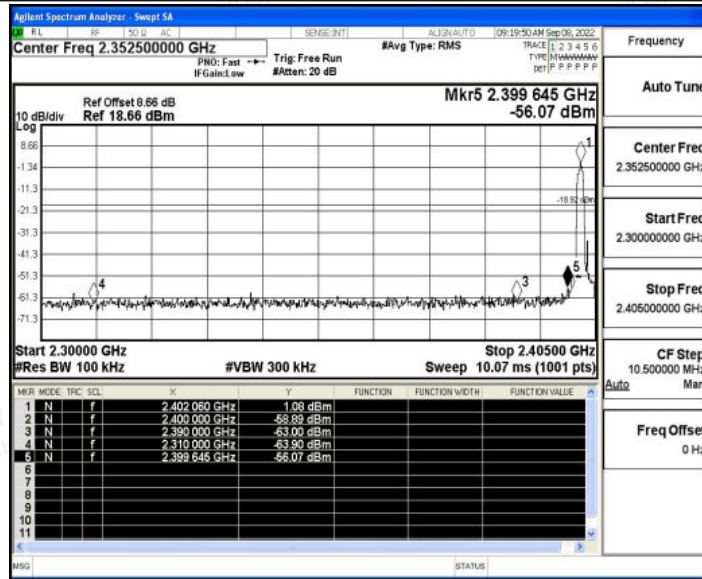
DH5\_Ant1\_High\_Hop\_2480



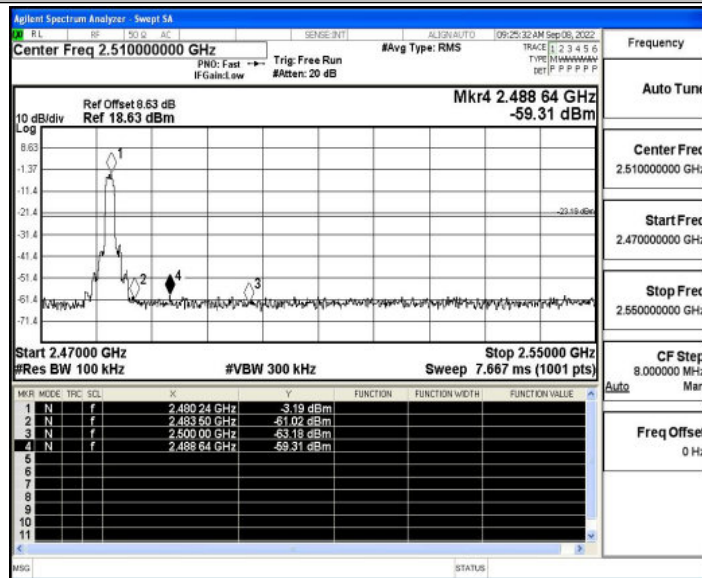
2DH5\_Ant1\_Low\_2402







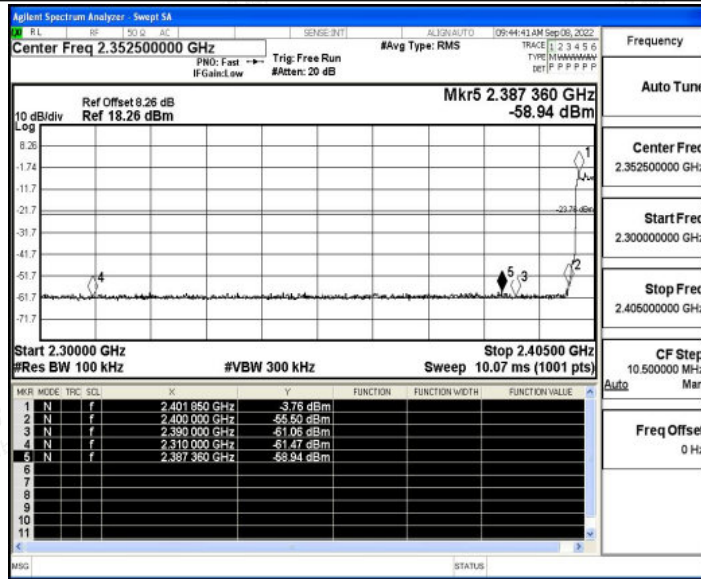
2DH5\_Ant1\_High\_2480



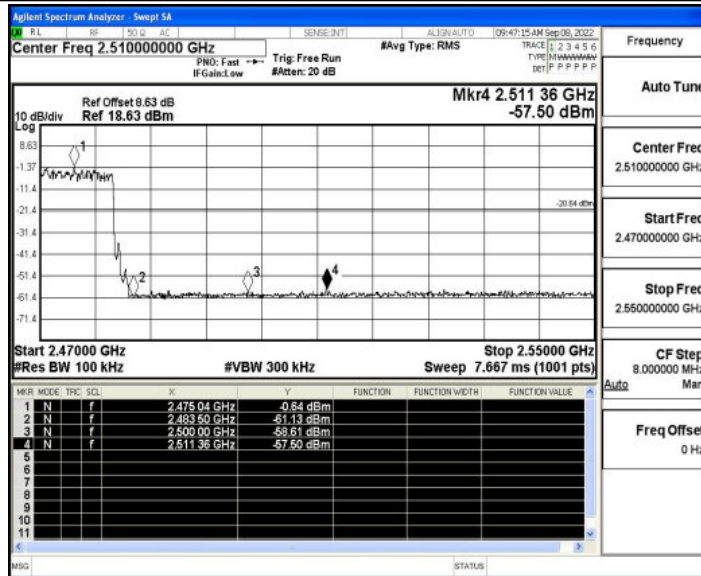
2DH5\_Ant1\_Low\_Hop\_2402





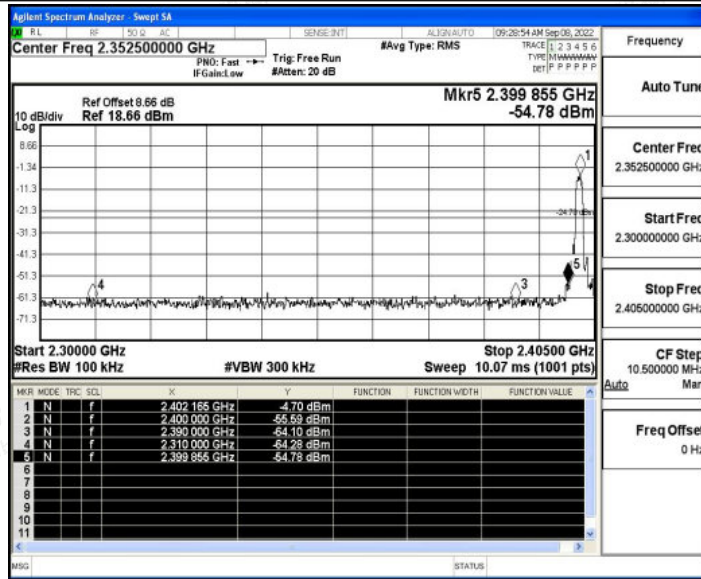


2DH5\_Ant1\_High\_Hop\_2480

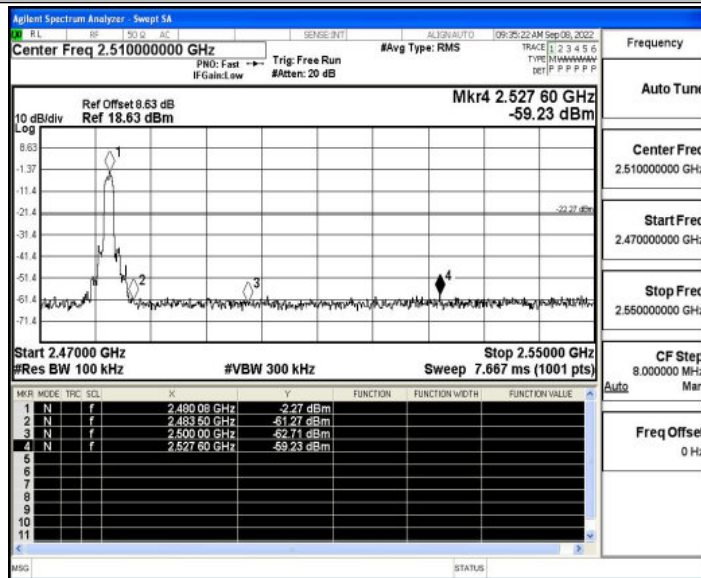


3DH5\_Ant1\_Low\_2402



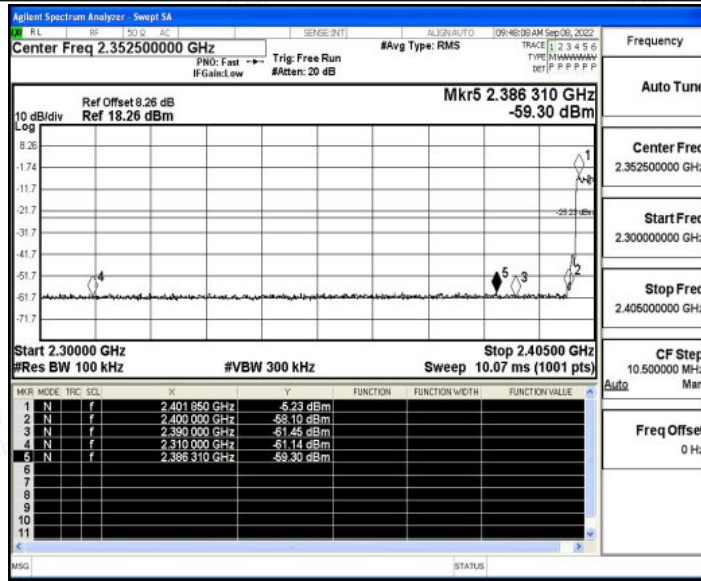


3DH5\_Ant1\_High\_2480

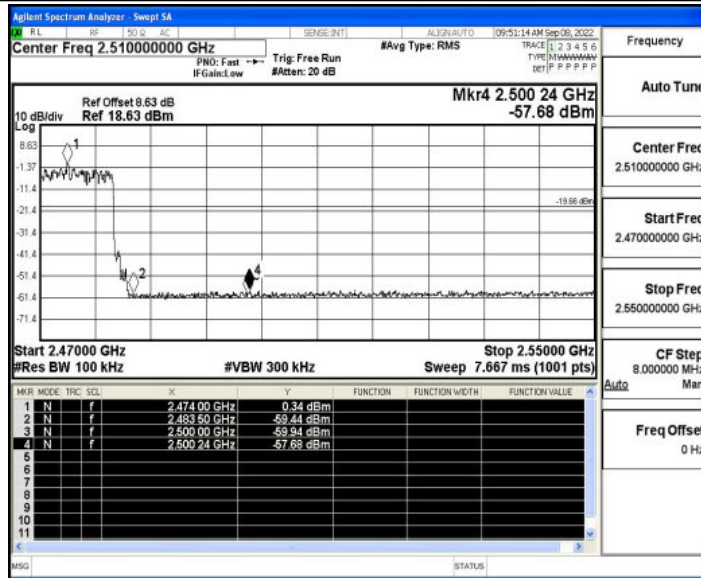


3DH5\_Ant1\_Low\_Hop\_2402





3DH5\_Ant1\_High\_Hop\_2480





### A.7 Conducted Spurious Emission

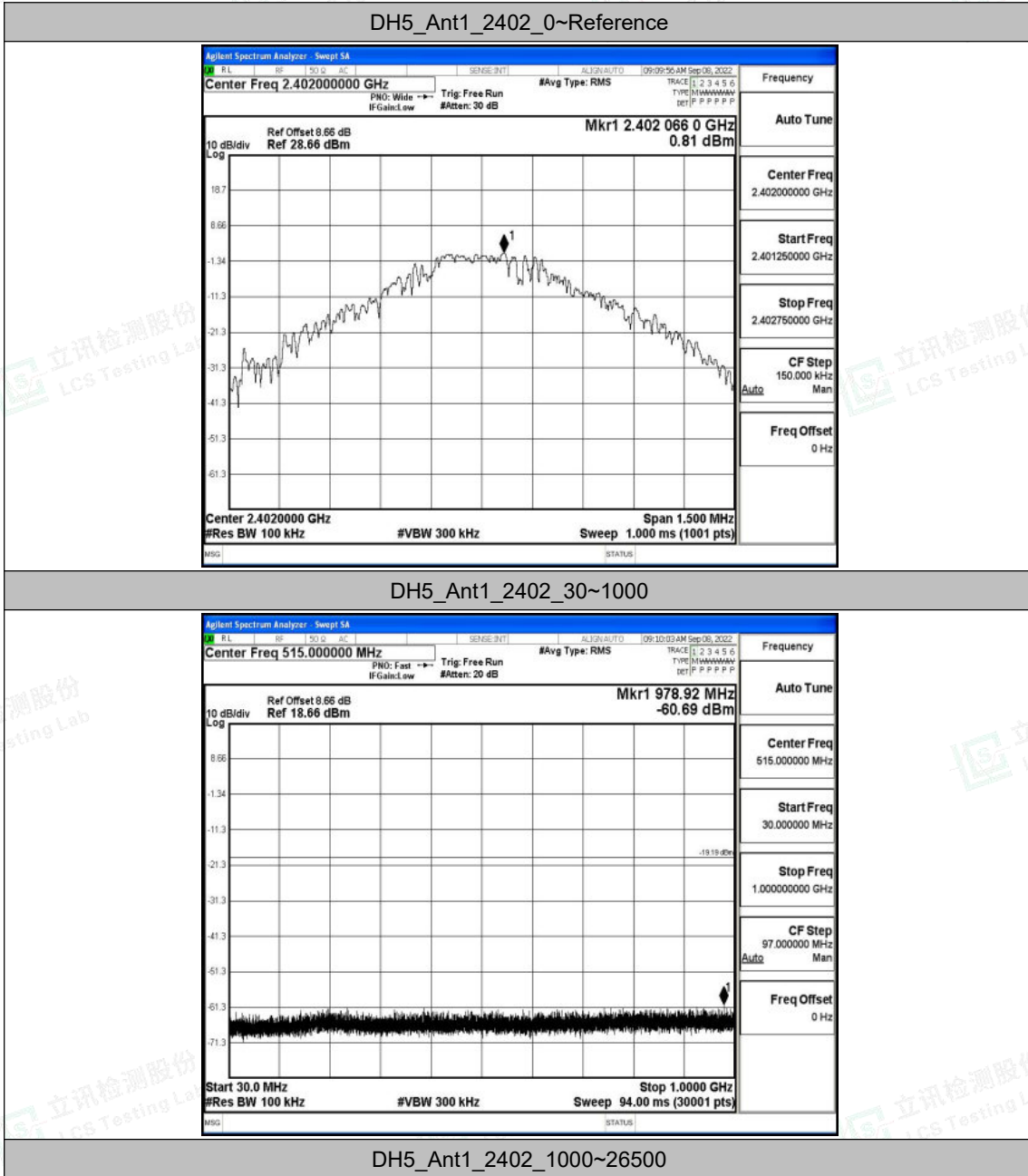
#### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.81	0.81	---	PASS
			30~1000	0.81	-60.69	≤-19.19	PASS
			1000~26500	0.81	-46.12	≤-19.19	PASS
		2441	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-60.49	≤-17.49	PASS
			1000~26500	2.51	-46.29	≤-17.49	PASS
		2480	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-60.09	≤-17.74	PASS
			1000~26500	2.26	-45.72	≤-17.74	PASS
2DH5	Ant1	2402	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-60.41	≤-21.58	PASS
			1000~26500	-1.58	-45.55	≤-21.58	PASS
		2441	Reference	-3.86	-3.86	---	PASS
			30~1000	-3.86	-60.95	≤-23.86	PASS
			1000~26500	-3.86	-46.14	≤-23.86	PASS
		2480	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-60.28	≤-23.39	PASS
			1000~26500	-3.39	-45.08	≤-23.39	PASS
3DH5	Ant1	2402	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-60.58	≤-24.08	PASS
			1000~26500	-4.08	-45.88	≤-24.08	PASS
		2441	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-61.04	≤-20.09	PASS
			1000~26500	-0.09	-44.78	≤-20.09	PASS
		2480	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-61.04	≤-22.61	PASS
			1000~26500	-2.61	-45.91	≤-22.61	PASS

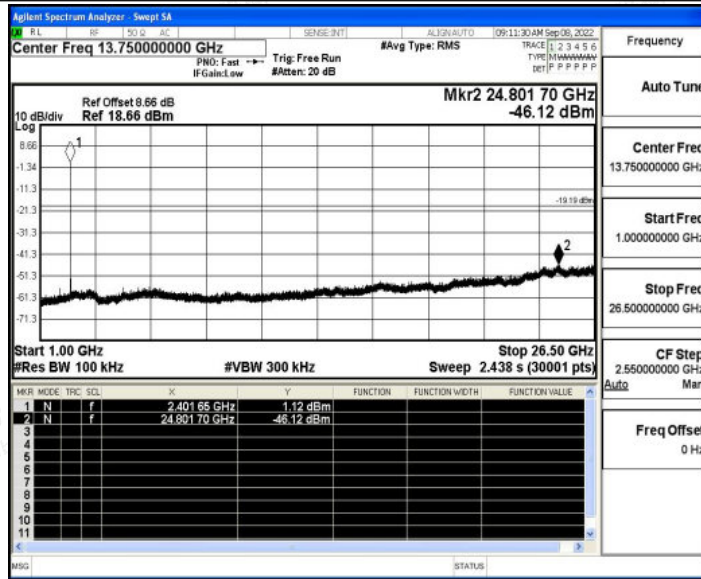




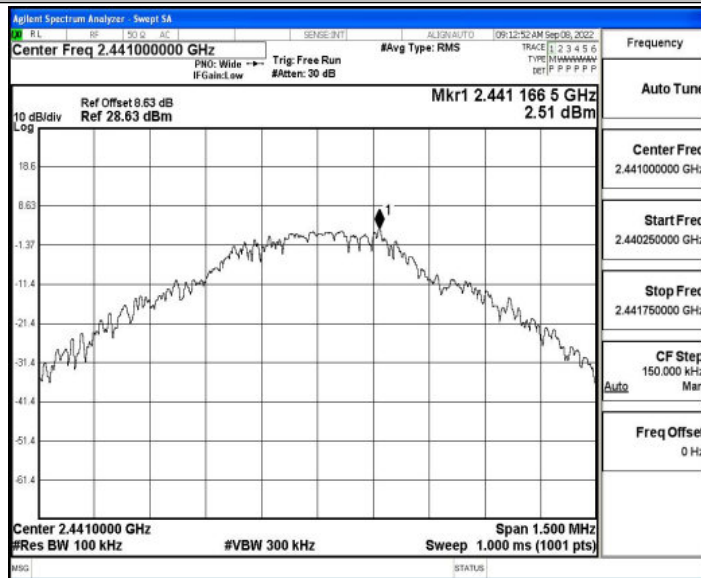
### Test Graphs







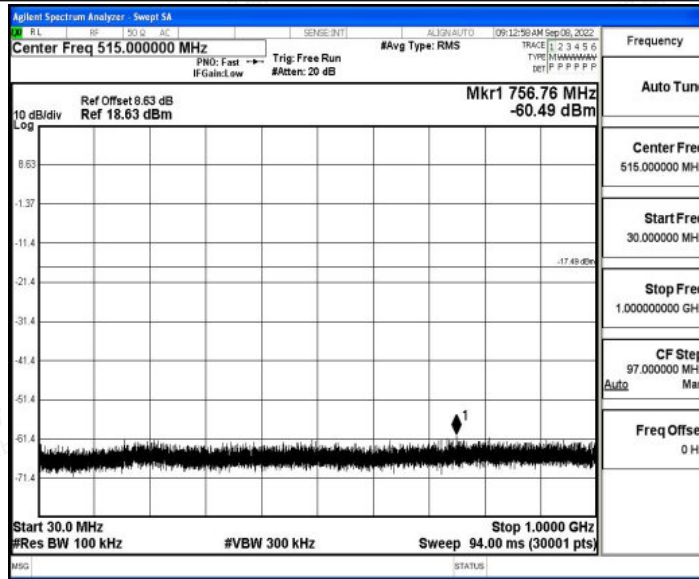
DH5\_Ant1\_2441\_0~Reference



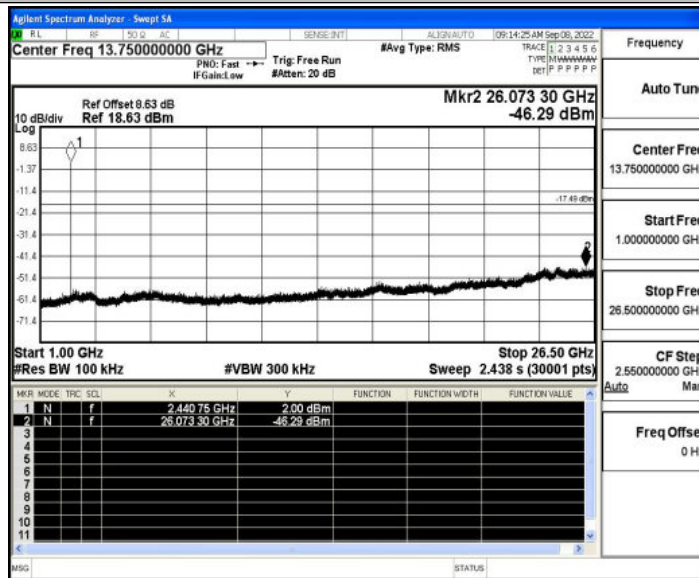
DH5\_Ant1\_2441\_30~1000





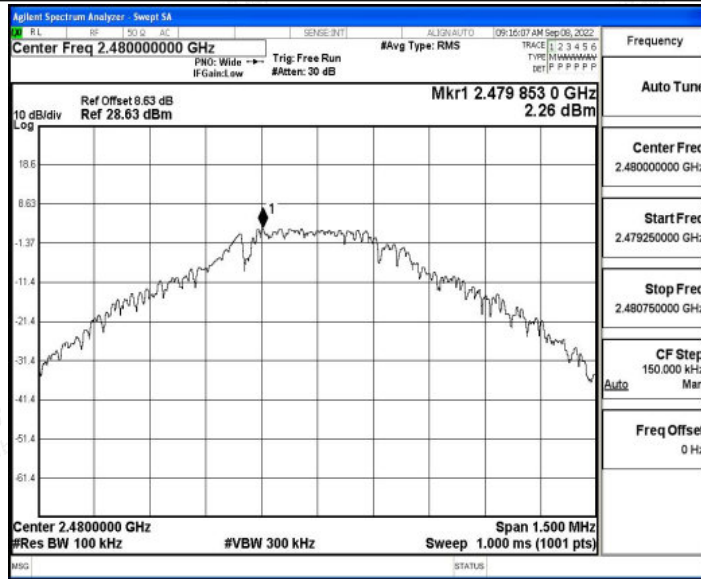


DH5\_Ant1\_2441\_1000~26500

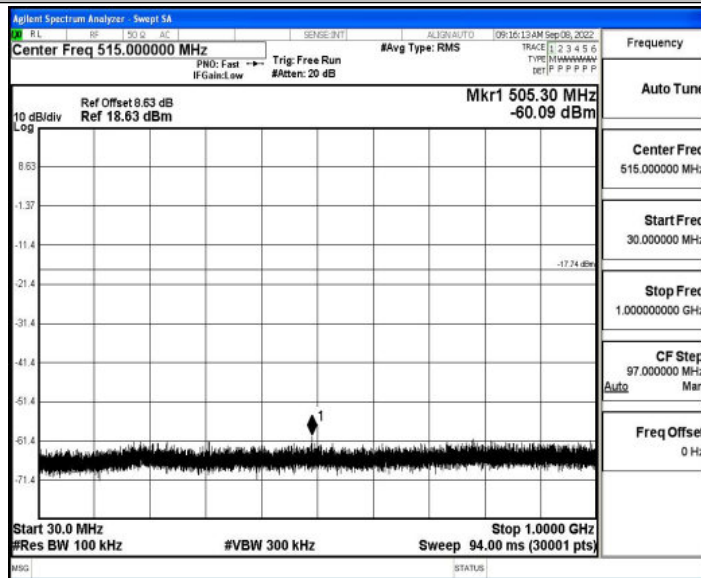


DH5\_Ant1\_2480\_0~Reference



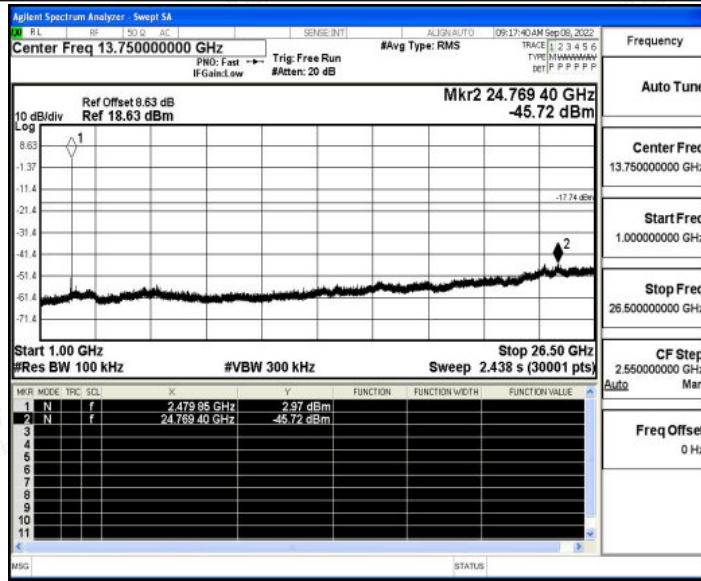


DH5\_Ant1\_2480\_30~1000

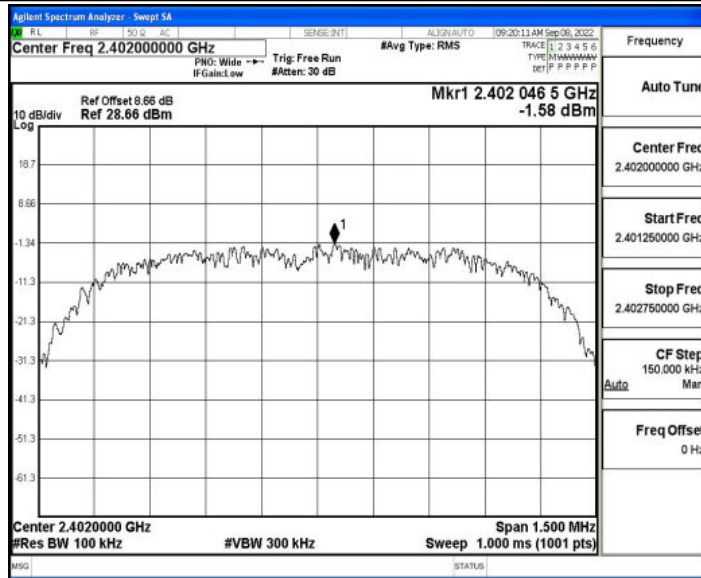


DH5\_Ant1\_2480\_1000~26500



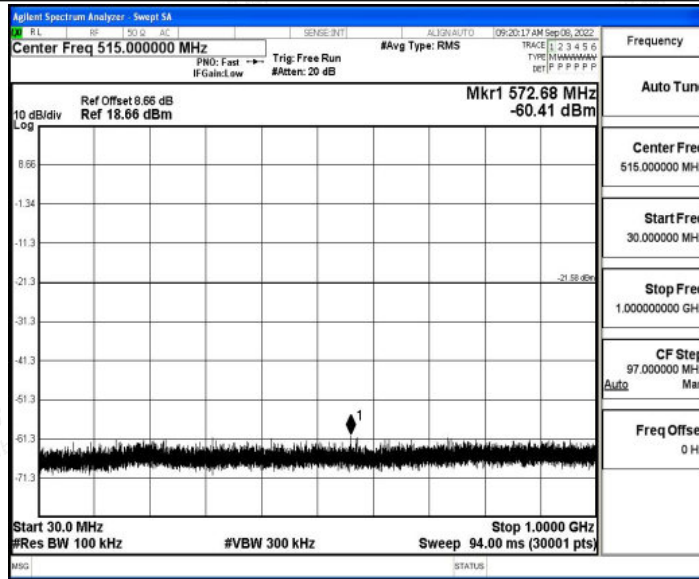


2DH5\_Ant1\_2402\_0~Reference

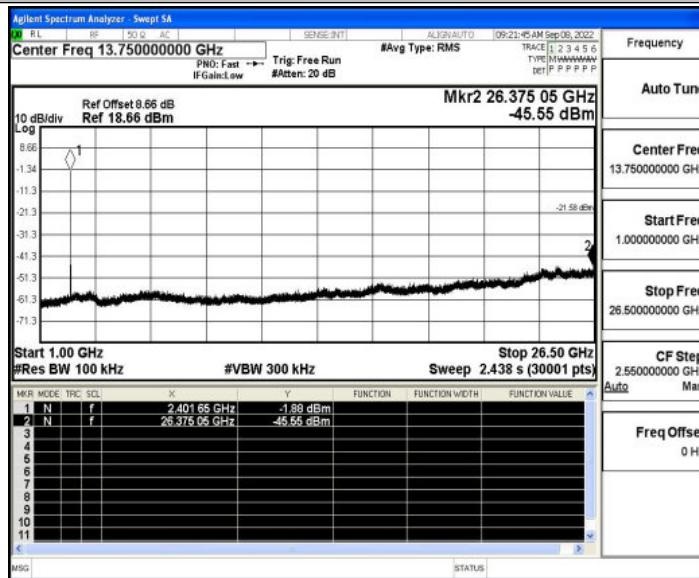


2DH5\_Ant1\_2402\_30~1000



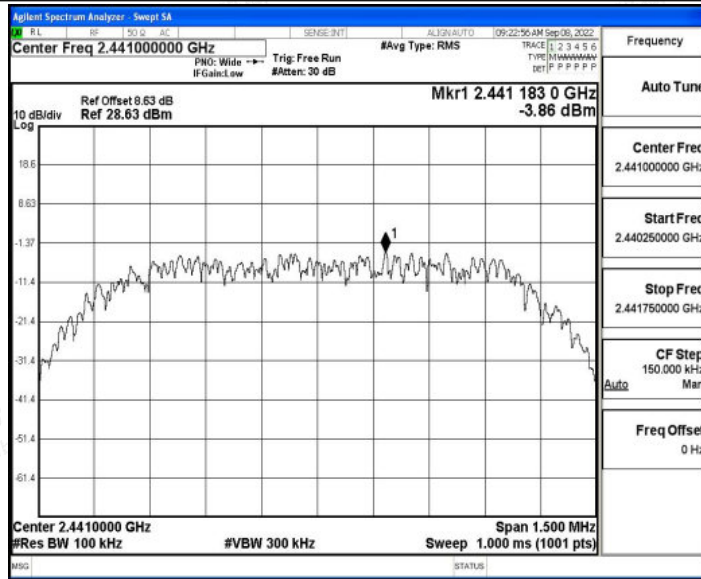


2DH5\_Ant1\_2402\_1000~26500

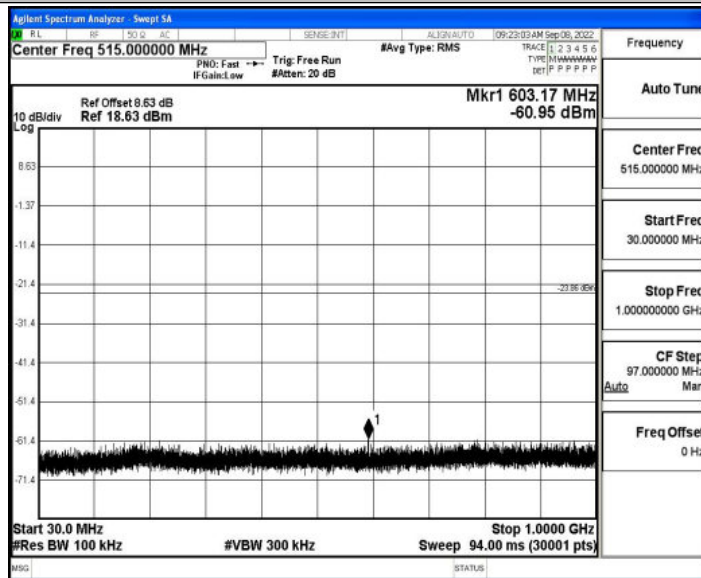


2DH5\_Ant1\_2441\_0~Reference





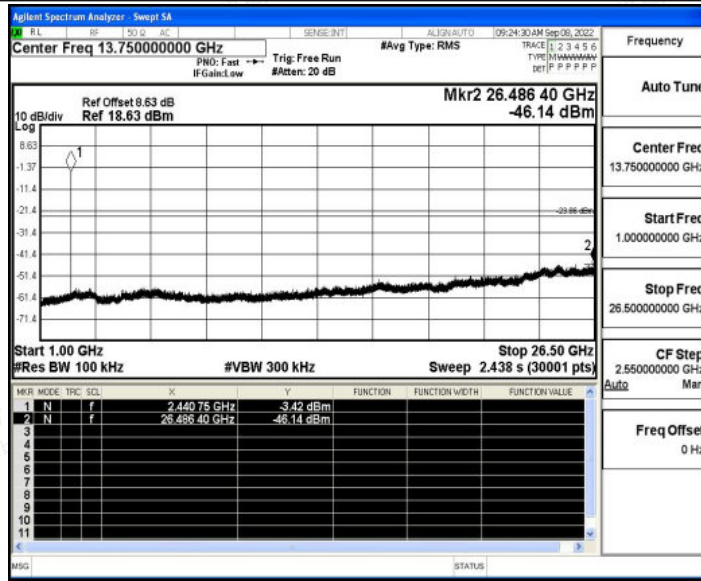
2DH5\_Ant1\_2441\_30~1000



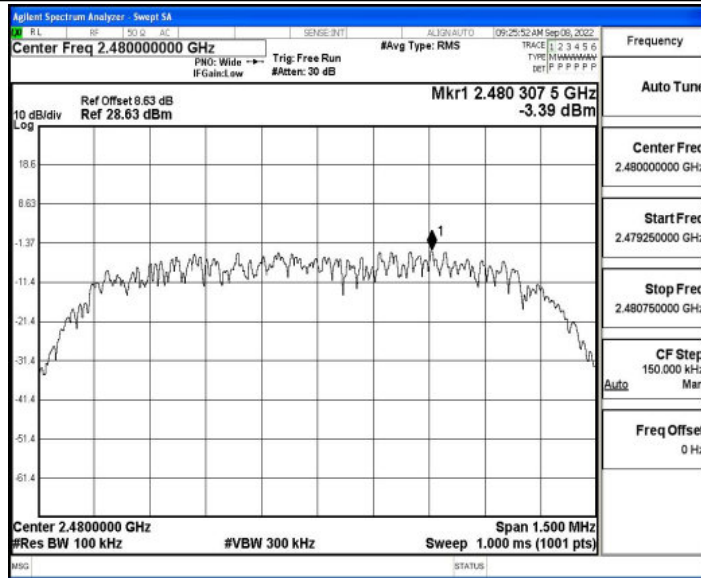
2DH5\_Ant1\_2441\_1000~26500







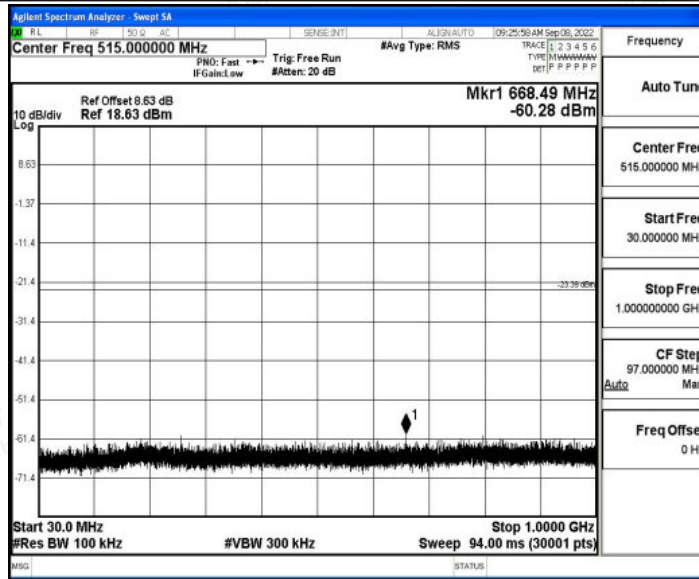
2DH5\_Ant1\_2480\_0~Reference



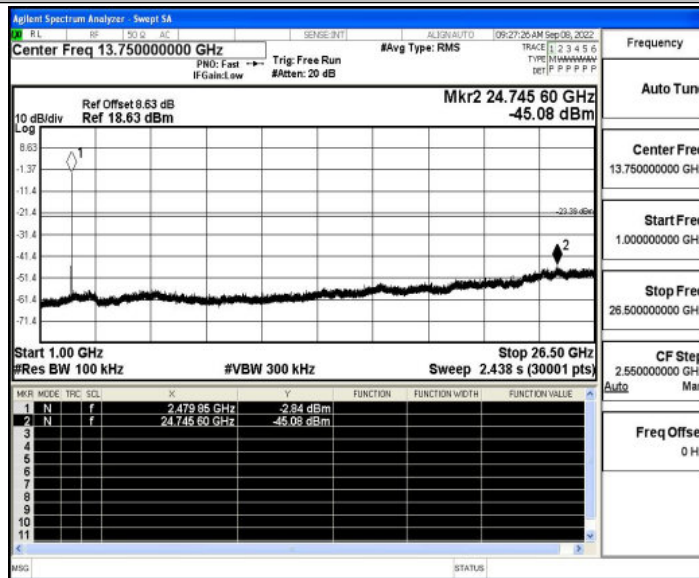
2DH5\_Ant1\_2480\_30~1000





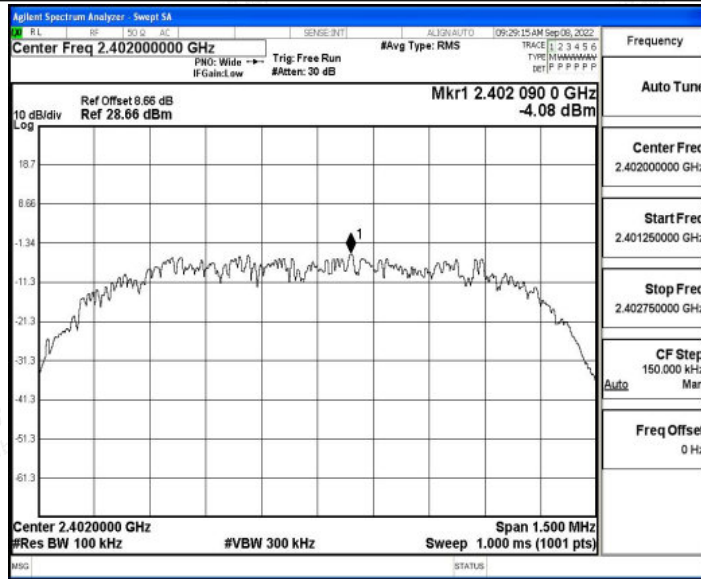


2DH5\_Ant1\_2480\_1000~26500

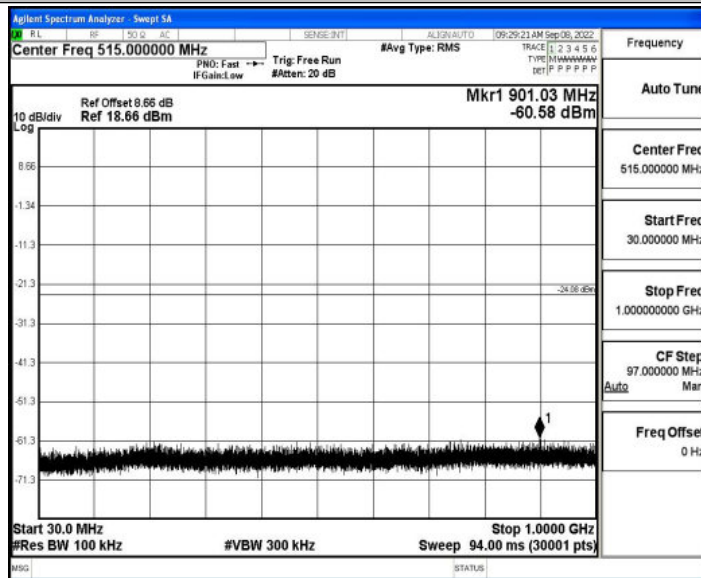


3DH5\_Ant1\_2402\_0~Reference



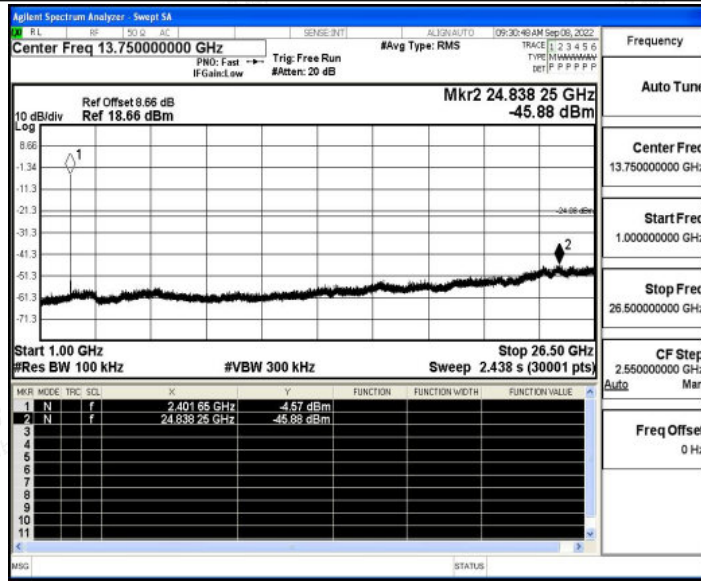


3DH5\_Ant1\_2402\_30~1000

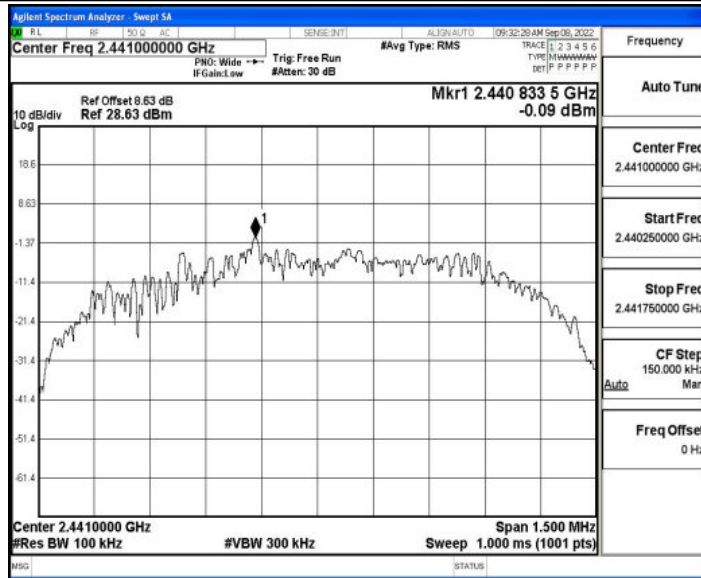


3DH5\_Ant1\_2402\_1000~26500



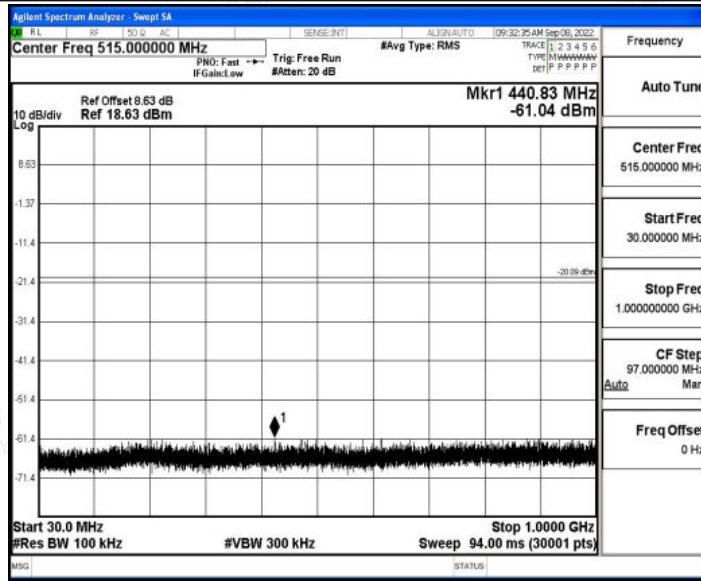


3DH5\_Ant1\_2441\_0~Reference

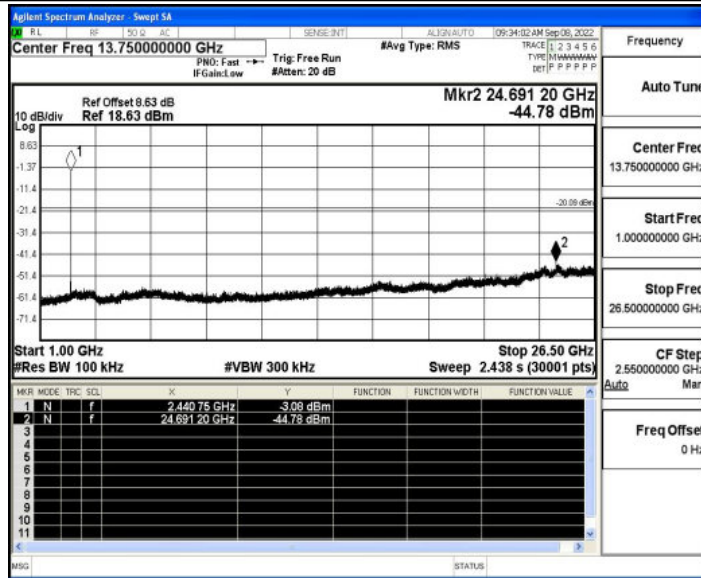


3DH5\_Ant1\_2441\_30~1000



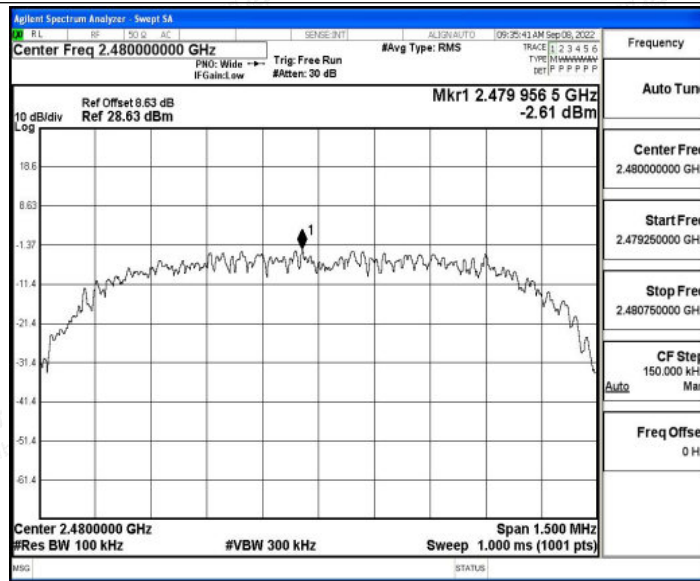


3DH5\_Ant1\_2441\_1000~26500

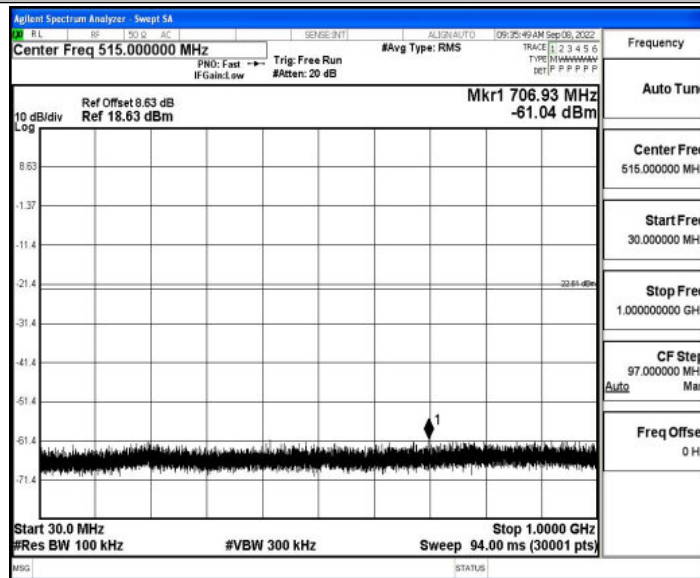


3DH5\_Ant1\_2480\_0~Reference





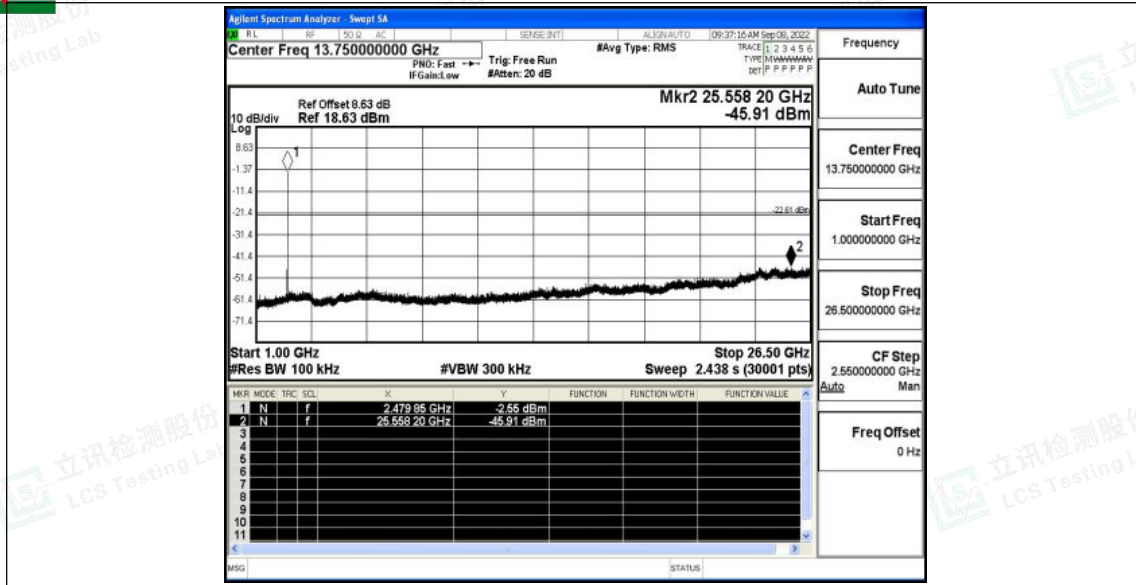
3DH5\_Ant1\_2480\_30~1000



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	-58.13	≤-41.20	37.07	≤54	PASS		
				AV	2389.565	-57.33	≤-41.20	37.87	≤54	PASS		
				AV	2390.000	-57.49	≤-41.20	37.71	≤54	PASS		
				Peak	2310.000	-52.01	≤-21.20	43.19	≤74	PASS		
				Peak	2315.855	-48.72	≤-21.20	46.48	≤74	PASS		
				Peak	2390.000	-51.6	≤-21.20	43.60	≤74	PASS		
		High	2480	AV	2483.500	-53.71	≤-41.20	41.49	≤54	PASS		
				AV	2483.520	-53.71	≤-41.20	41.49	≤54	PASS		
				AV	2500.000	-56.89	≤-41.20	38.31	≤54	PASS		
				Peak	2483.500	-49.45	≤-21.20	45.75	≤74	PASS		
				Peak	2485.840	-46.02	≤-21.20	49.18	≤74	PASS		
				Peak	2500.000	-52.03	≤-21.20	43.17	≤74	PASS		
		Low	Hop_2402	Peak	2310.000	-50.09	≤-21.20	45.11	≤74	PASS		
				Peak	2325.620	-47.64	≤-21.20	47.56	≤74	PASS		
				Peak	2390.000	-49.5	≤-21.20	45.70	≤74	PASS		
		High	Hop_2480	Peak	2483.500	-48.81	≤-21.20	46.39	≤74	PASS		
				Peak	2493.600	-47.05	≤-21.20	48.15	≤74	PASS		
				Peak	2500.000	-48.97	≤-21.20	46.23	≤74	PASS		
		2DH5	Ant1	Low	2402	AV	2310.000	-58.21	≤-41.20	36.99	≤54	PASS
						AV	2389.985	-57.3	≤-41.20	37.90	≤54	PASS
						AV	2390.000	-57.3	≤-41.20	37.90	≤54	PASS
Peak	2310.000					-53.47	≤-21.20	41.73	≤74	PASS		
Peak	2366.255					-48.97	≤-21.20	46.23	≤74	PASS		
Peak	2390.000					-51.95	≤-21.20	43.25	≤74	PASS		
High	2480			AV	2483.500	-53.13	≤-41.20	42.07	≤54	PASS		
				AV	2483.520	-53.13	≤-41.20	42.07	≤54	PASS		
				AV	2500.000	-57.02	≤-41.20	38.18	≤54	PASS		
				Peak	2483.500	-51.59	≤-21.20	43.61	≤74	PASS		
				Peak	2499.200	-48.02	≤-21.20	47.18	≤74	PASS		
				Peak	2500.000	-51.05	≤-21.20	44.15	≤74	PASS		
Low	Hop_2402			Peak	2310.000	-49.83	≤-21.20	45.37	≤74	PASS		
				Peak	2388.935	-47.12	≤-21.20	48.08	≤74	PASS		
				Peak	2390.000	-50.14	≤-21.20	45.06	≤74	PASS		
High	Hop_2480			Peak	2483.500	-48.1	≤-21.20	47.10	≤74	PASS		
				Peak	2496.320	-46.21	≤-21.20	48.99	≤74	PASS		



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 Scan code to check authenticity



3DH5	Ant1	Low	2402	Peak	2500.000	-48.2	≤-21.20	47.00	≤74	PASS
				AV	2310.000	-57.94	≤-41.20	37.26	≤54	PASS
				AV	2388.830	-57.48	≤-41.20	37.72	≤54	PASS
				AV	2390.000	-57.64	≤-41.20	37.56	≤54	PASS
				Peak	2310.000	-53.13	≤-21.20	42.07	≤74	PASS
				Peak	2369.930	-48.14	≤-21.20	47.06	≤74	PASS
		High	2480	AV	2483.500	-52.73	≤-41.20	42.47	≤54	PASS
				AV	2483.520	-52.73	≤-41.20	42.47	≤54	PASS
				AV	2500.000	-57.13	≤-41.20	38.07	≤54	PASS
				Peak	2483.500	-50.06	≤-21.20	45.14	≤74	PASS
				Peak	2496.160	-48.44	≤-21.20	46.76	≤74	PASS
				Peak	2500.000	-50.46	≤-21.20	44.74	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-50.15	≤-21.20	45.05	≤74	PASS
				Peak	2366.780	-47.95	≤-21.20	47.25	≤74	PASS
				Peak	2390.000	-49.74	≤-21.20	45.46	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-48.31	≤-21.20	46.89	≤74	PASS
				Peak	2492.160	-46.82	≤-21.20	48.38	≤74	PASS
				Peak	2500.000	-48.47	≤-21.20	46.73	≤74	PASS

Note:

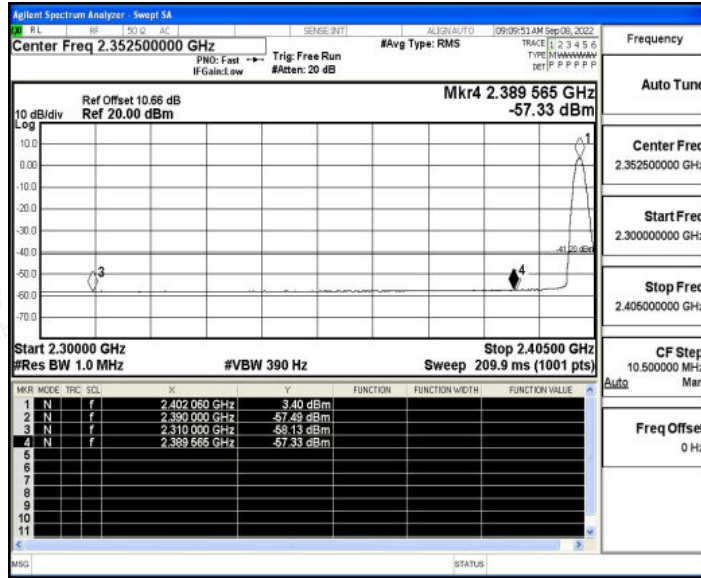
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



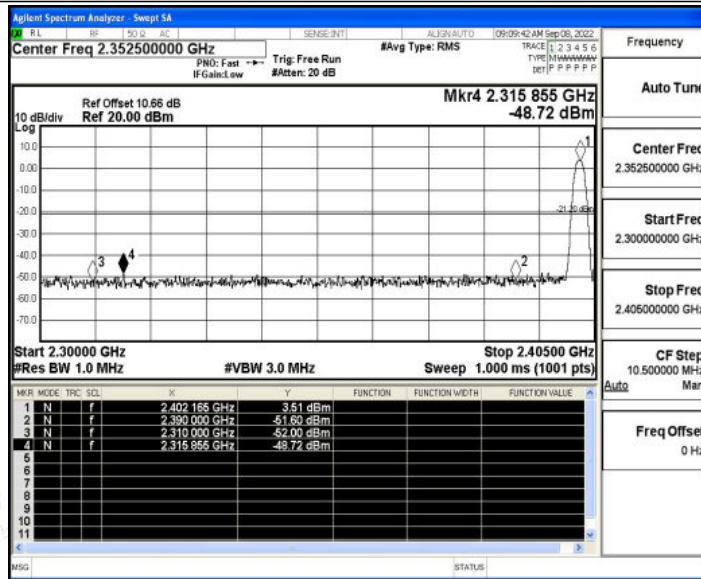


### Test Graphs

#### DH5\_Ant1\_Low\_2402\_AV

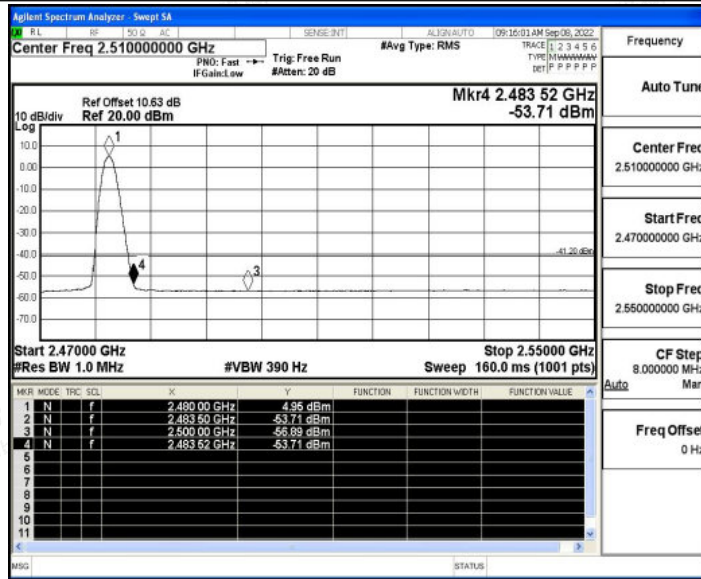


#### DH5\_Ant1\_Low\_2402\_Peak

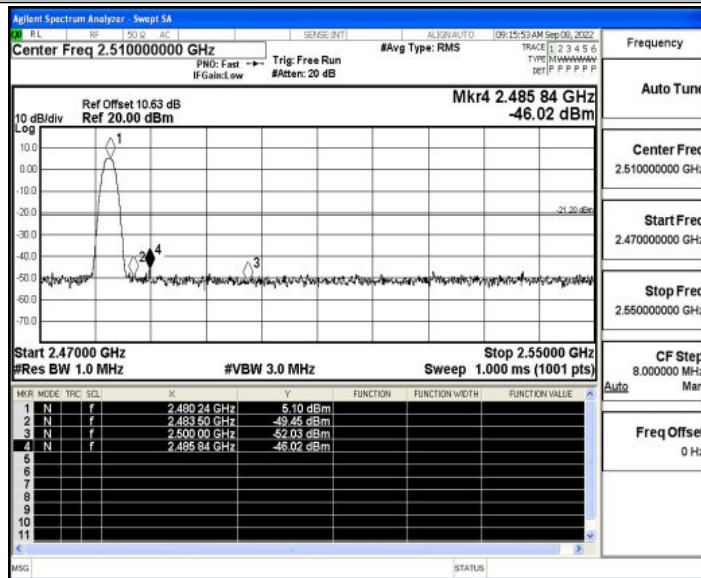


#### DH5\_Ant1\_High\_2480\_AV



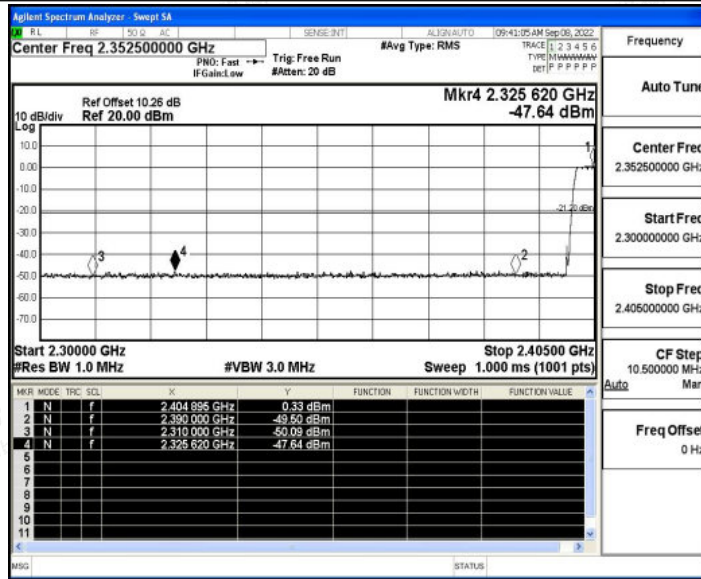


DH5\_Ant1\_High\_2480\_Peak

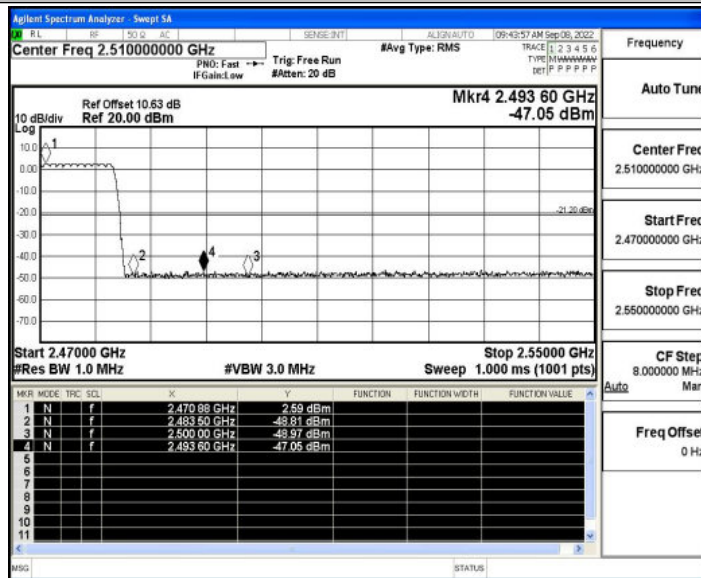


DH5\_Ant1\_Low\_Hop\_2402\_Peak





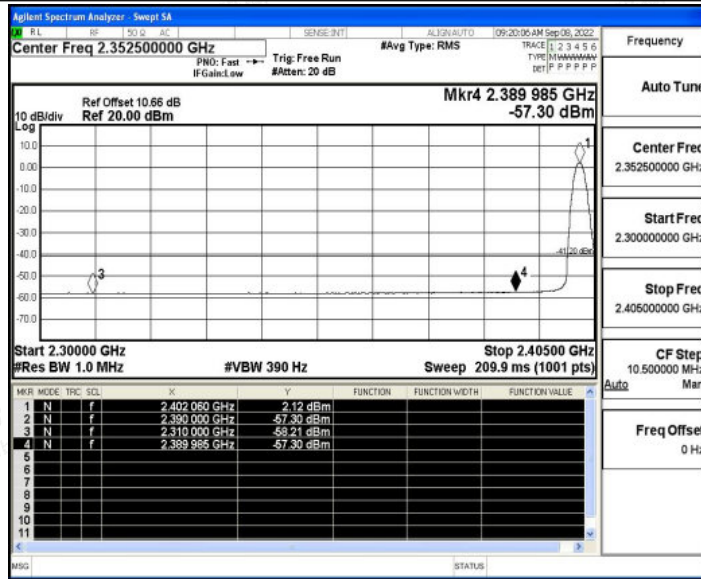
DH5\_Ant1\_High\_Hop\_2480\_Peak



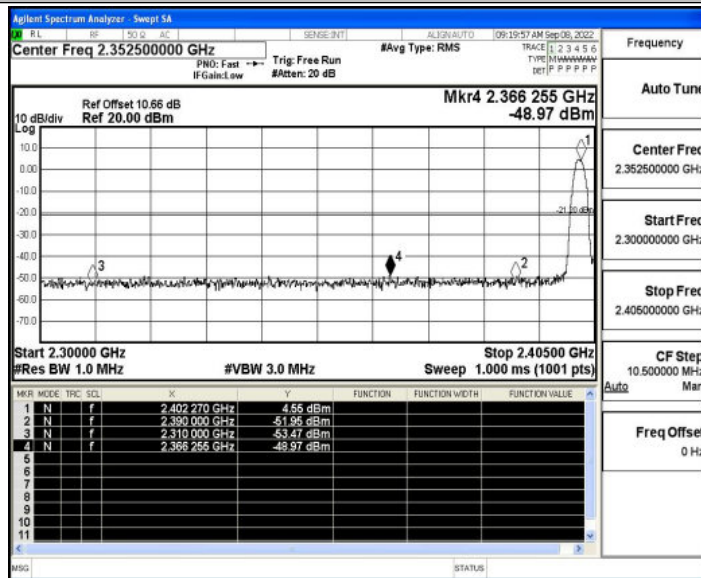
2DH5\_Ant1\_Low\_2402\_AV







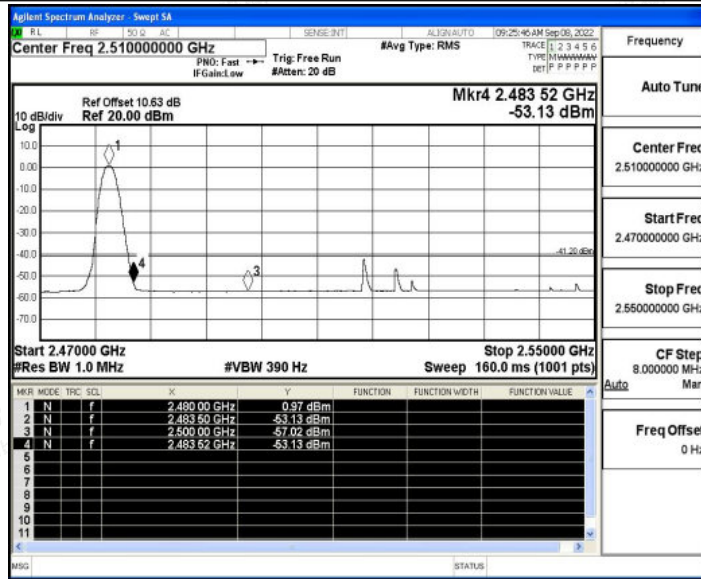
2DH5\_Ant1\_Low\_2402\_Peak



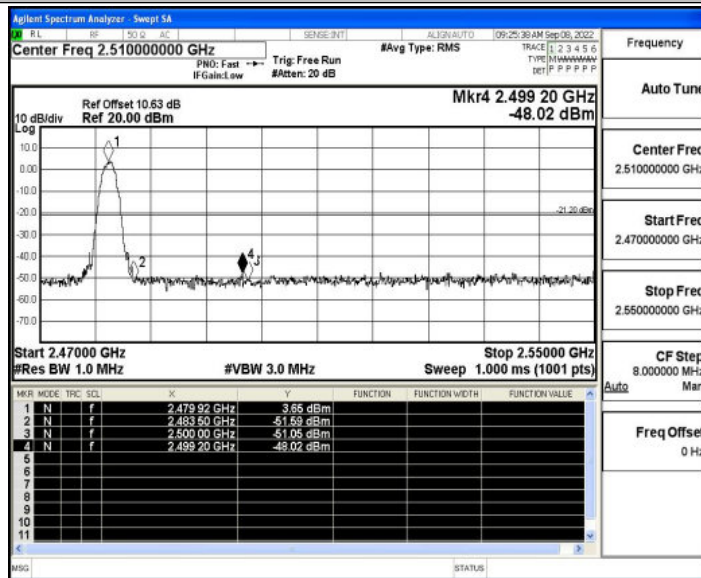
2DH5\_Ant1\_High\_2480\_AV





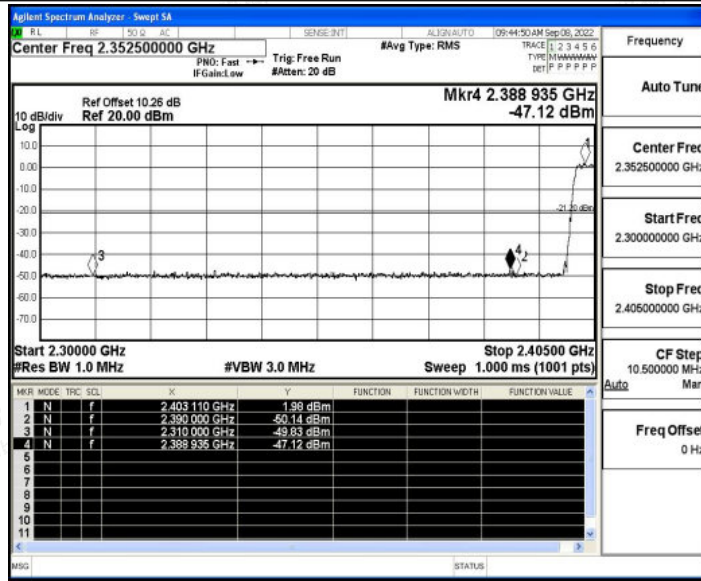


2DH5\_Ant1\_High\_2480\_Peak

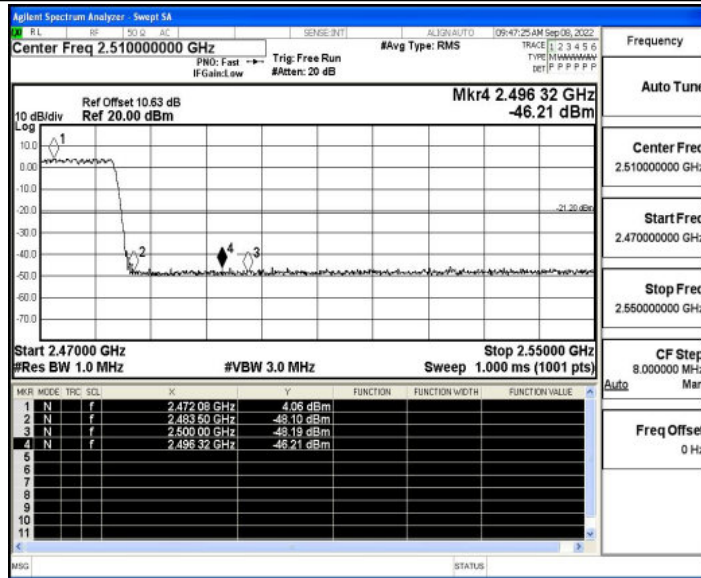


2DH5\_Ant1\_Low\_Hop\_2402\_Peak



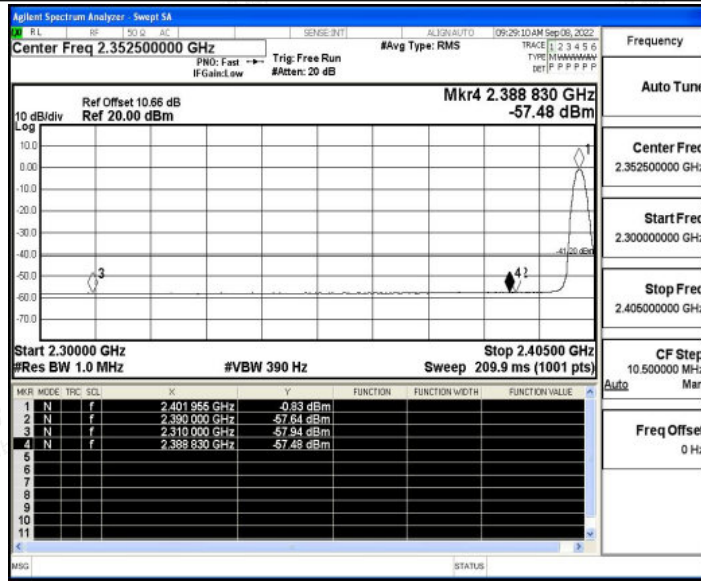


2DH5\_Ant1\_High\_Hop\_2480\_Peak

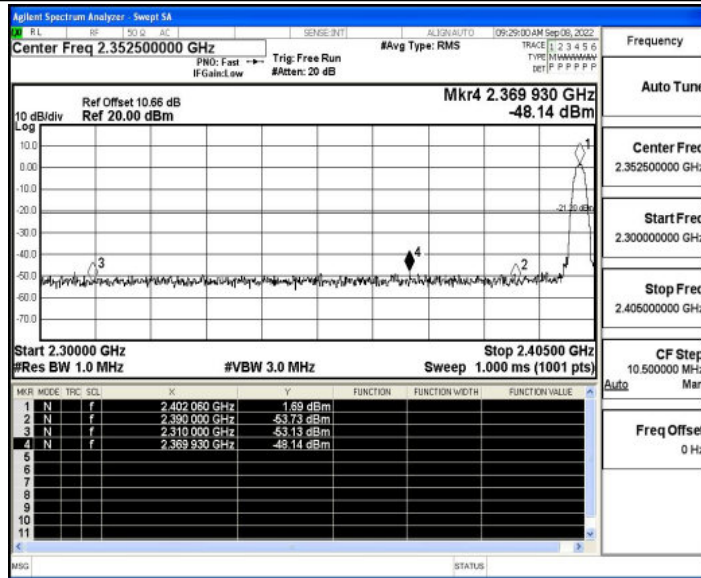


3DH5\_Ant1\_Low\_2402\_AV



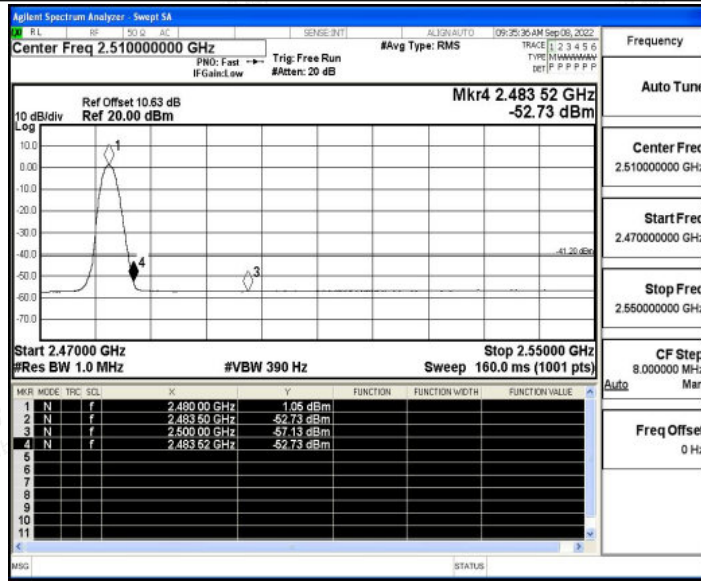


3DH5\_Ant1\_Low\_2402\_Peak

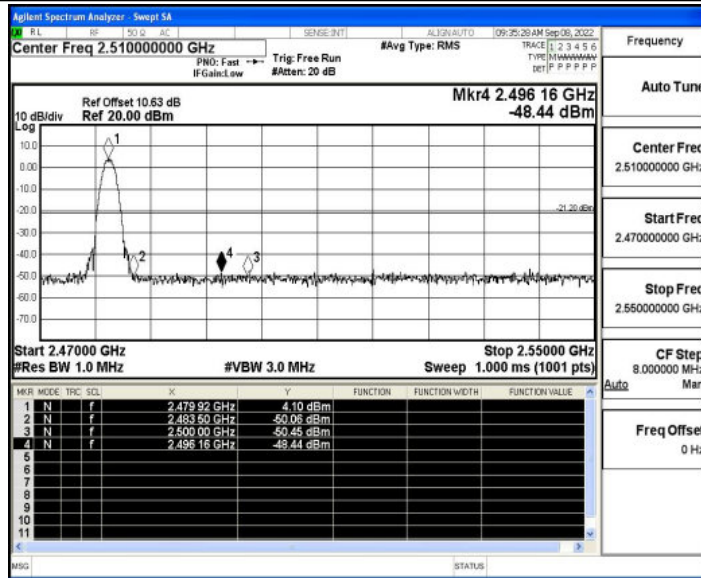


3DH5\_Ant1\_High\_2480\_AV



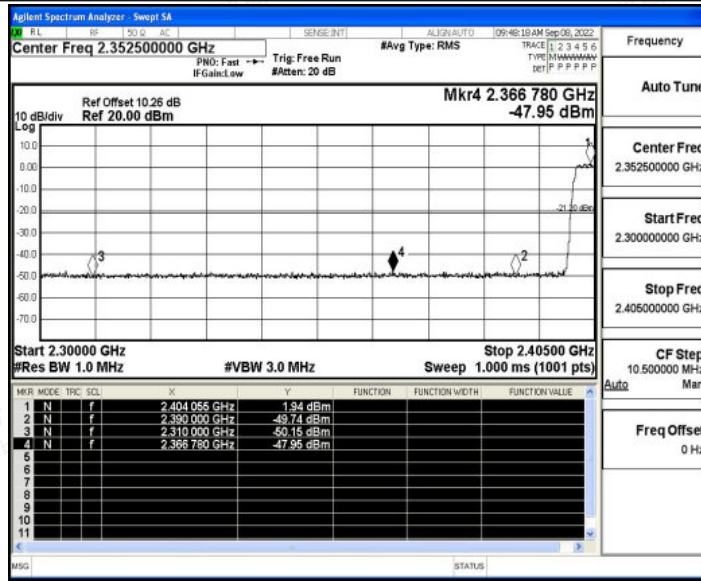


3DH5\_Ant1\_High\_2480\_Peak



3DH5\_Ant1\_Low\_Hop\_2402\_Peak





3DH5\_Ant1\_High\_Hop\_2480\_Peak

