



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 4G Phone

Test Model: HIT-01

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan

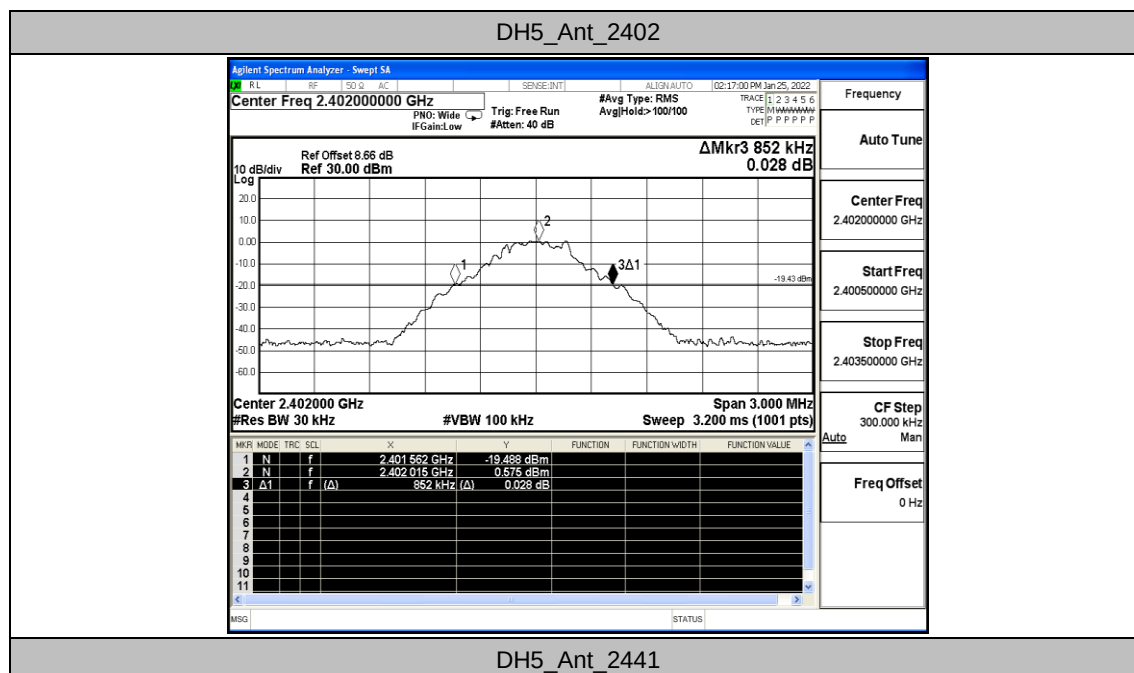


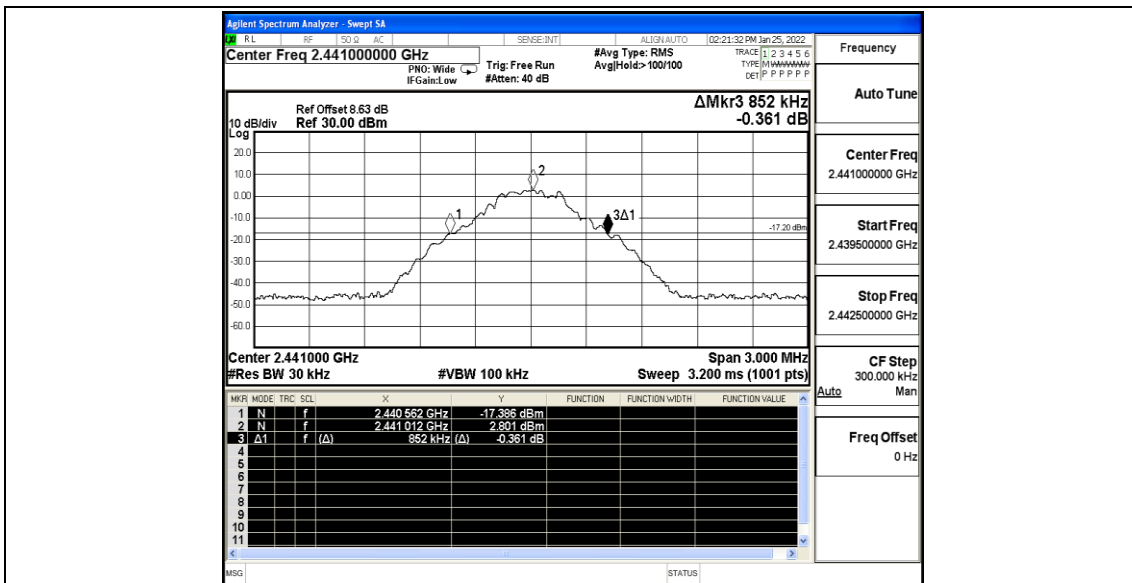
A.1 20dB Emission Bandwidth

Test Result

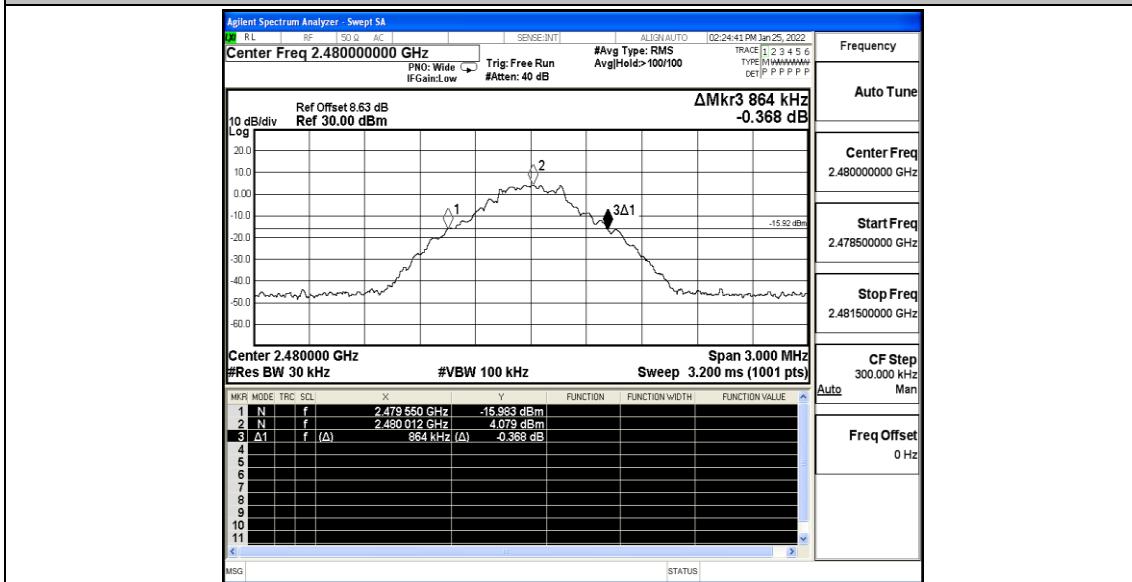
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	0.852	2401.562	2402.414	---	---
		2441	0.852	2440.562	2441.414	---	---
		2480	0.864	2479.550	2480.414	---	---
2DH5	Ant	2402	1.266	2401.367	2402.633	---	---
		2441	1.266	2440.367	2441.633	---	---
		2480	1.272	2479.364	2480.636	---	---
3DH5	Ant	2402	1.293	2401.346	2402.639	---	---
		2441	1.293	2440.346	2441.639	---	---
		2480	1.287	2479.349	2480.636	---	---

Test Graphs

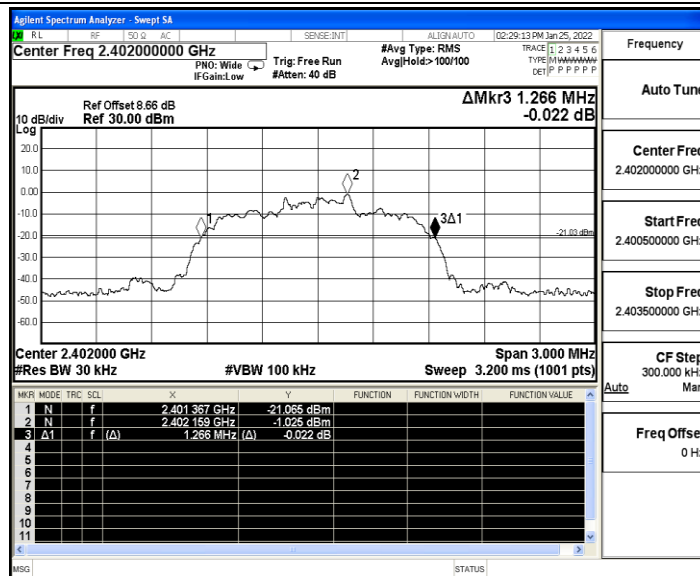




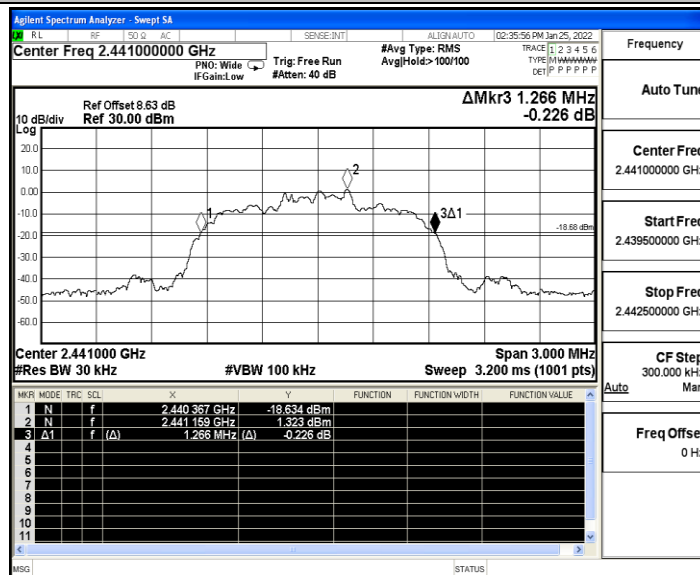
DH5_Ant_2480



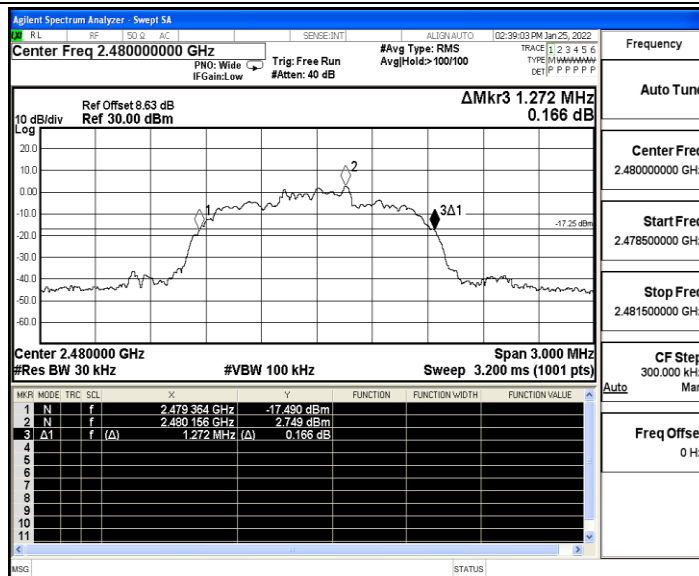
2DH5_Ant_2402



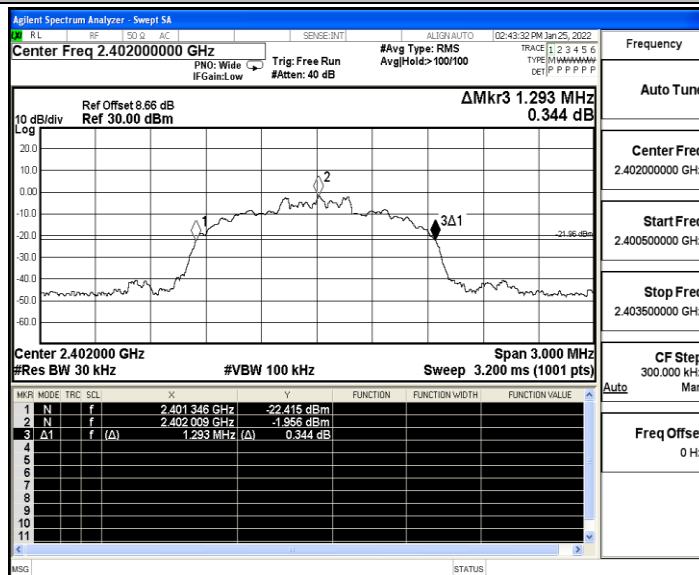
2DH5_Ant_2441



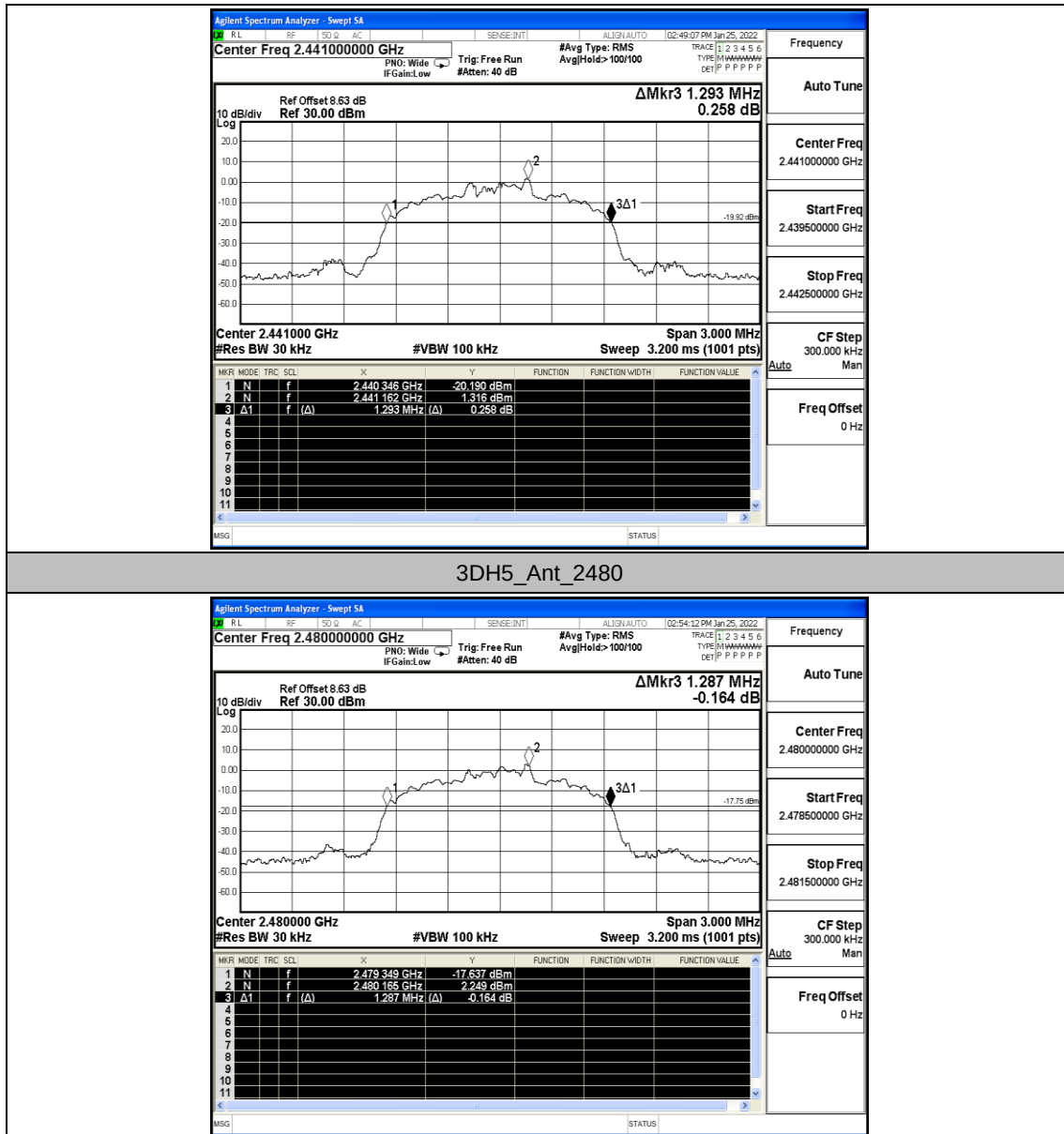
2DH5_Ant_2480



3DH5_Ant_2402



3DH5_Ant_2441



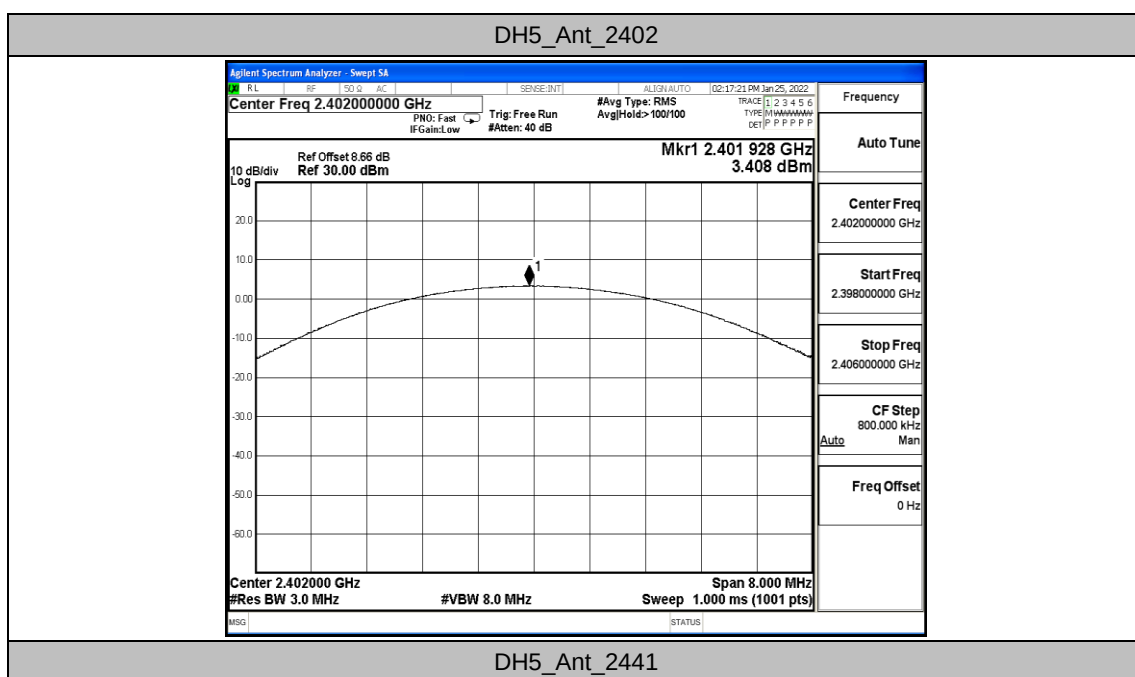


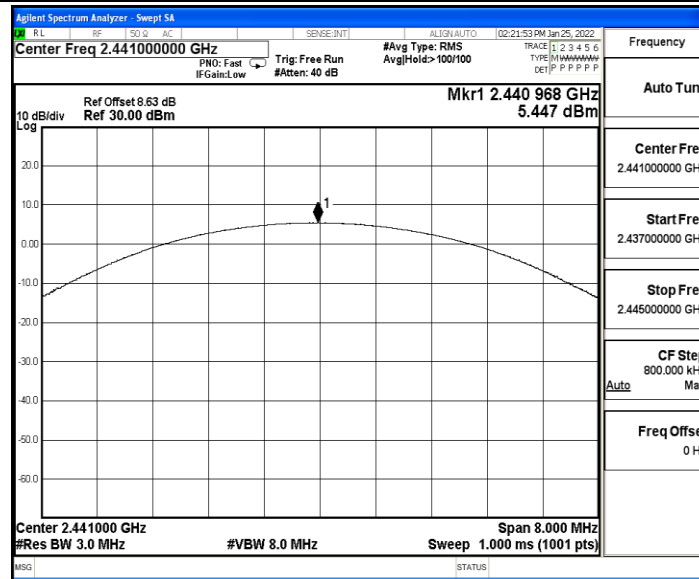
A.2 Maximum conducted output power

Test Result

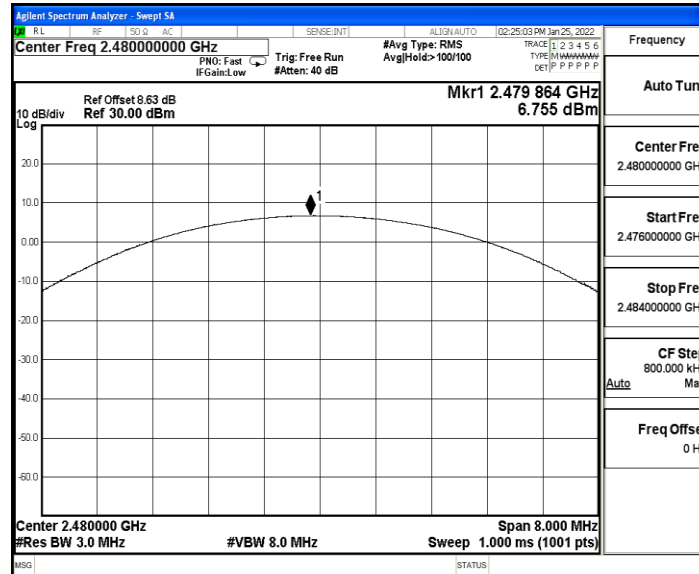
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	3.41	≤20.97	PASS
		2441	5.45	≤20.97	PASS
		2480	6.76	≤20.97	PASS
2DH5	Ant	2402	2.22	≤20.97	PASS
		2441	4.47	≤20.97	PASS
		2480	5.99	≤20.97	PASS
3DH5	Ant	2402	2.15	≤20.97	PASS
		2441	4.4	≤20.97	PASS
		2480	5.9	≤20.97	PASS

Test Graphs

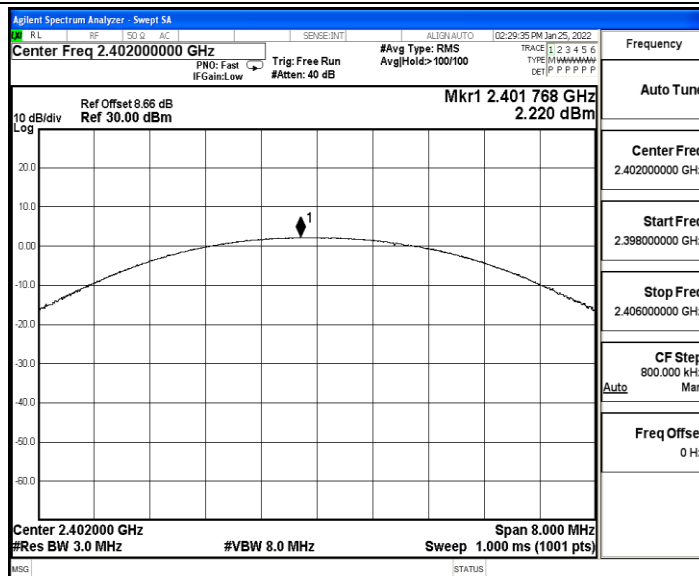




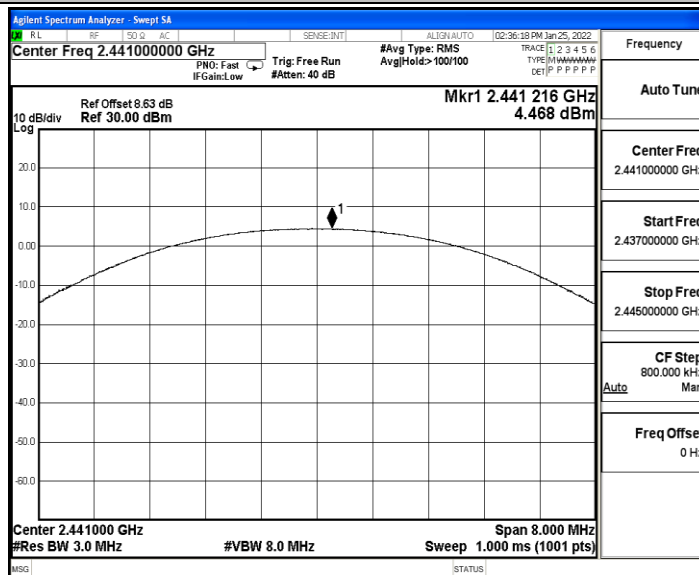
DH5_Ant_2480



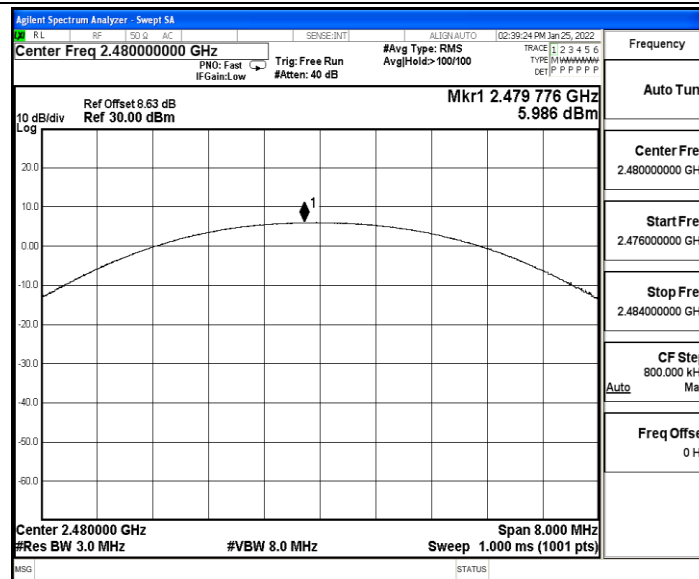
2DH5_Ant_2402



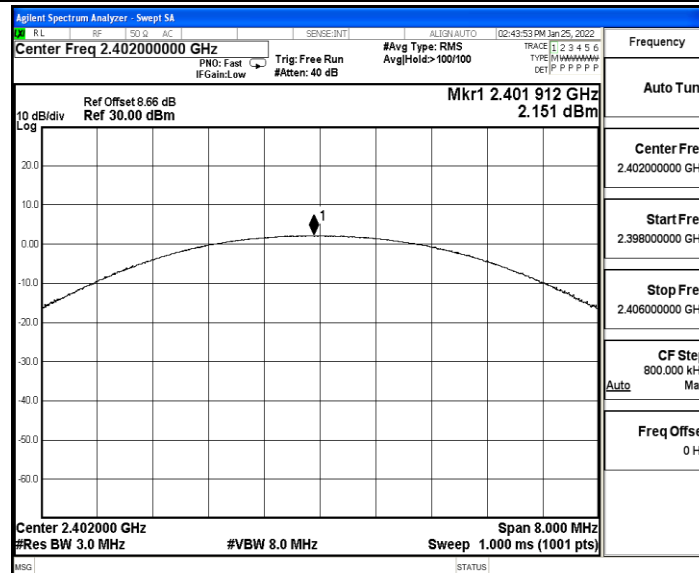
2DH5_Ant_2441



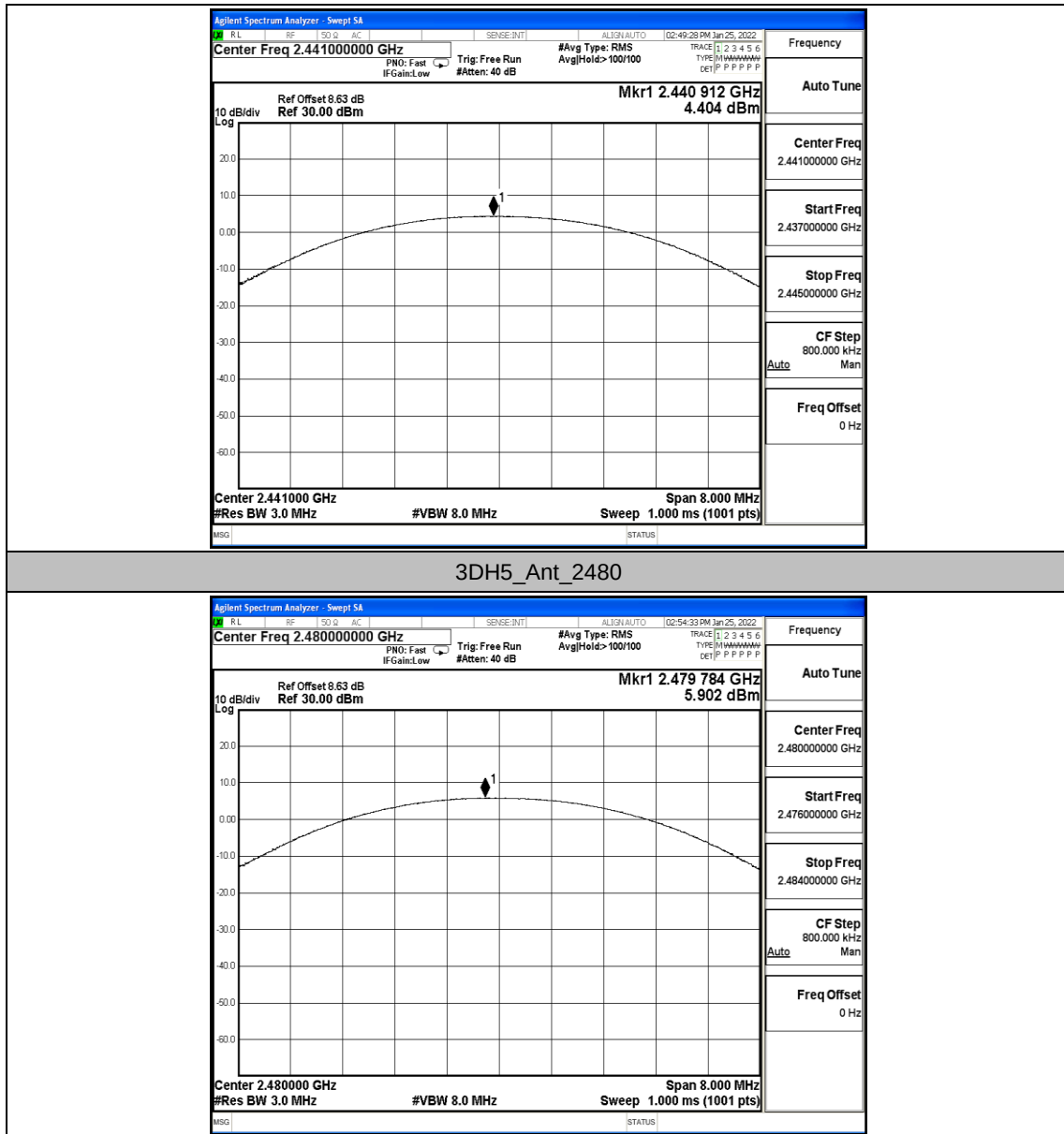
2DH5_Ant_2480



3DH5_Ant_2402



3DH5_Ant_2441

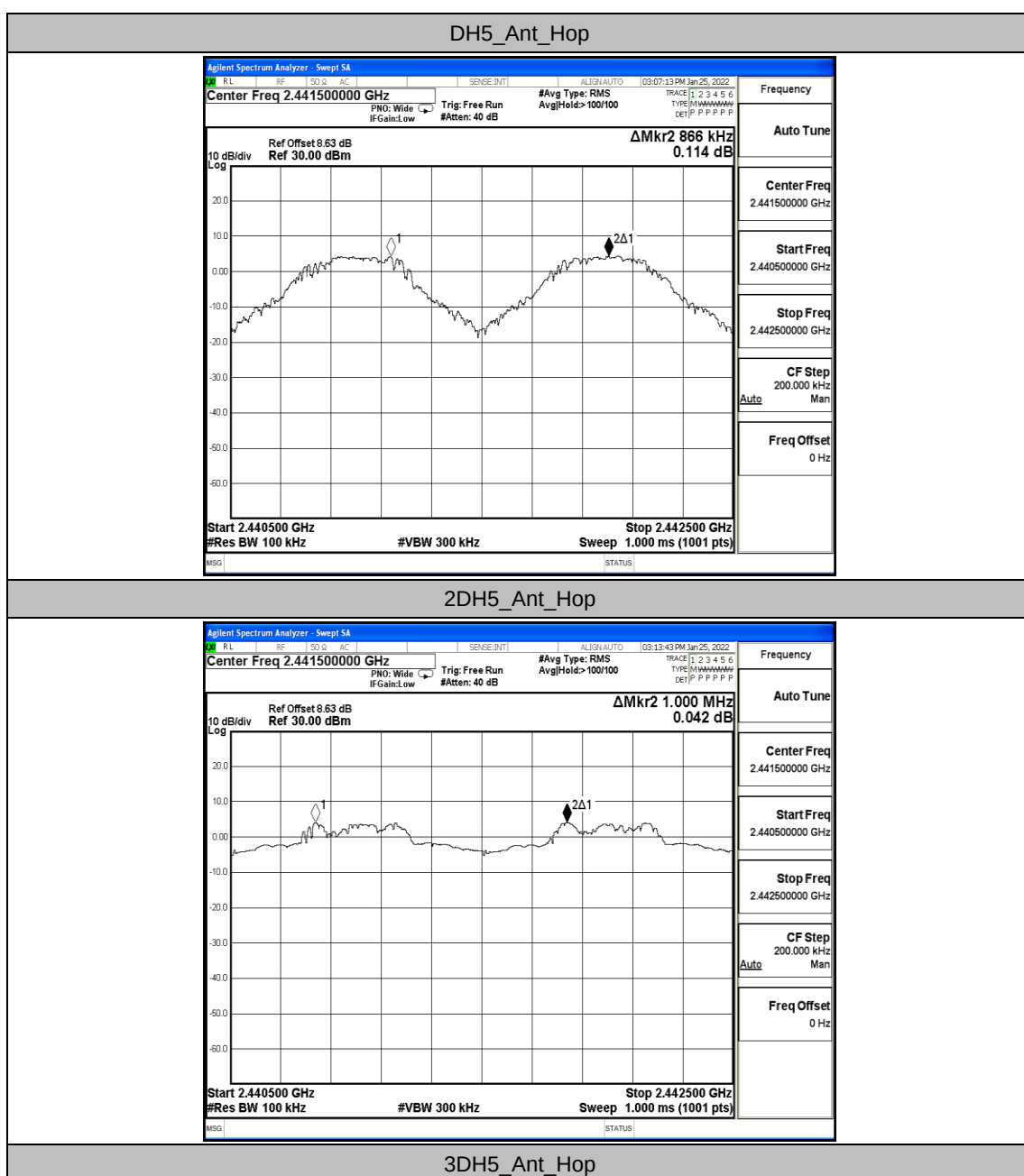


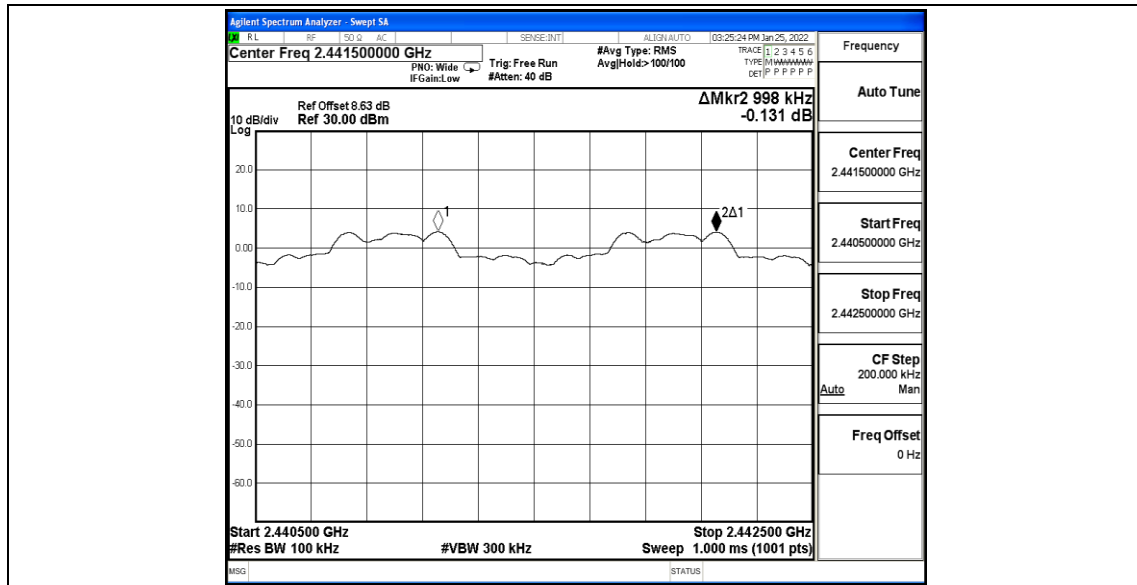
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	0.866	≥0.576	PASS
2DH5	Ant	Hop	1.000	≥0.848	PASS
3DH5	Ant	Hop	0.998	≥0.862	PASS

Test Graphs



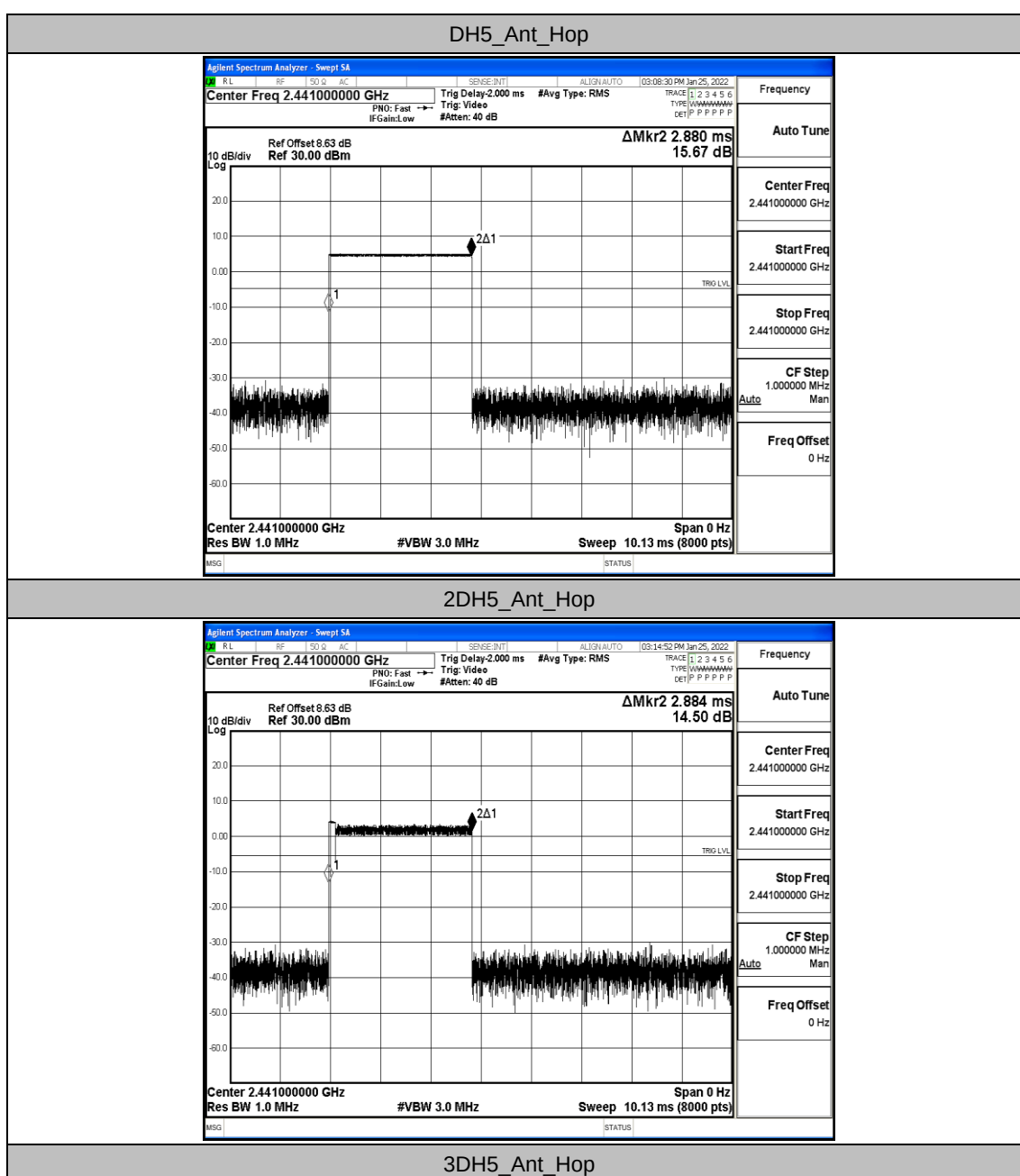


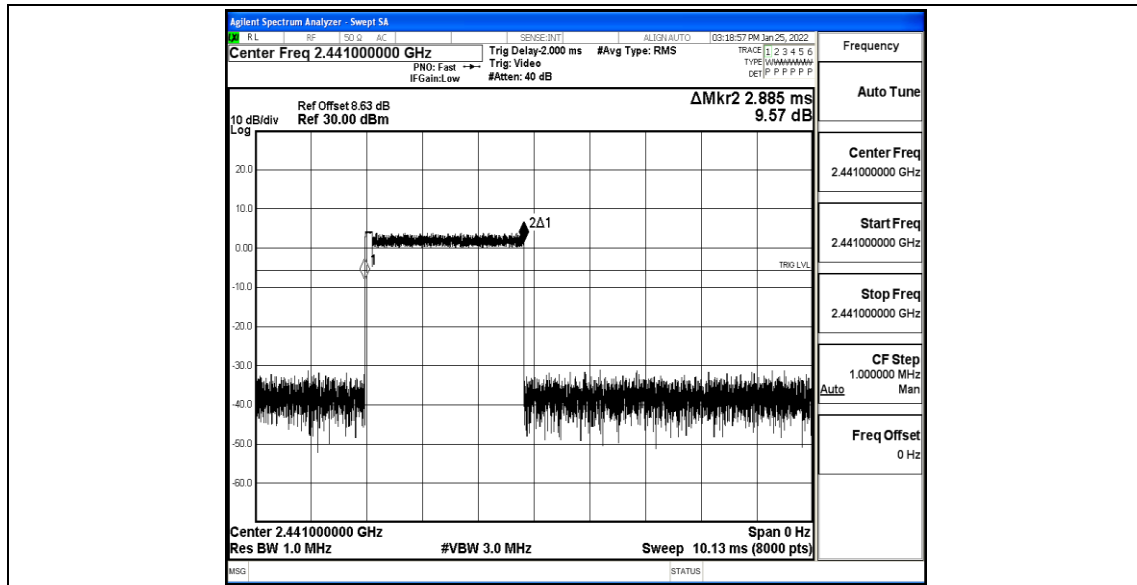
A.4 Time of occupancy

Test Result

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

Test Graphs





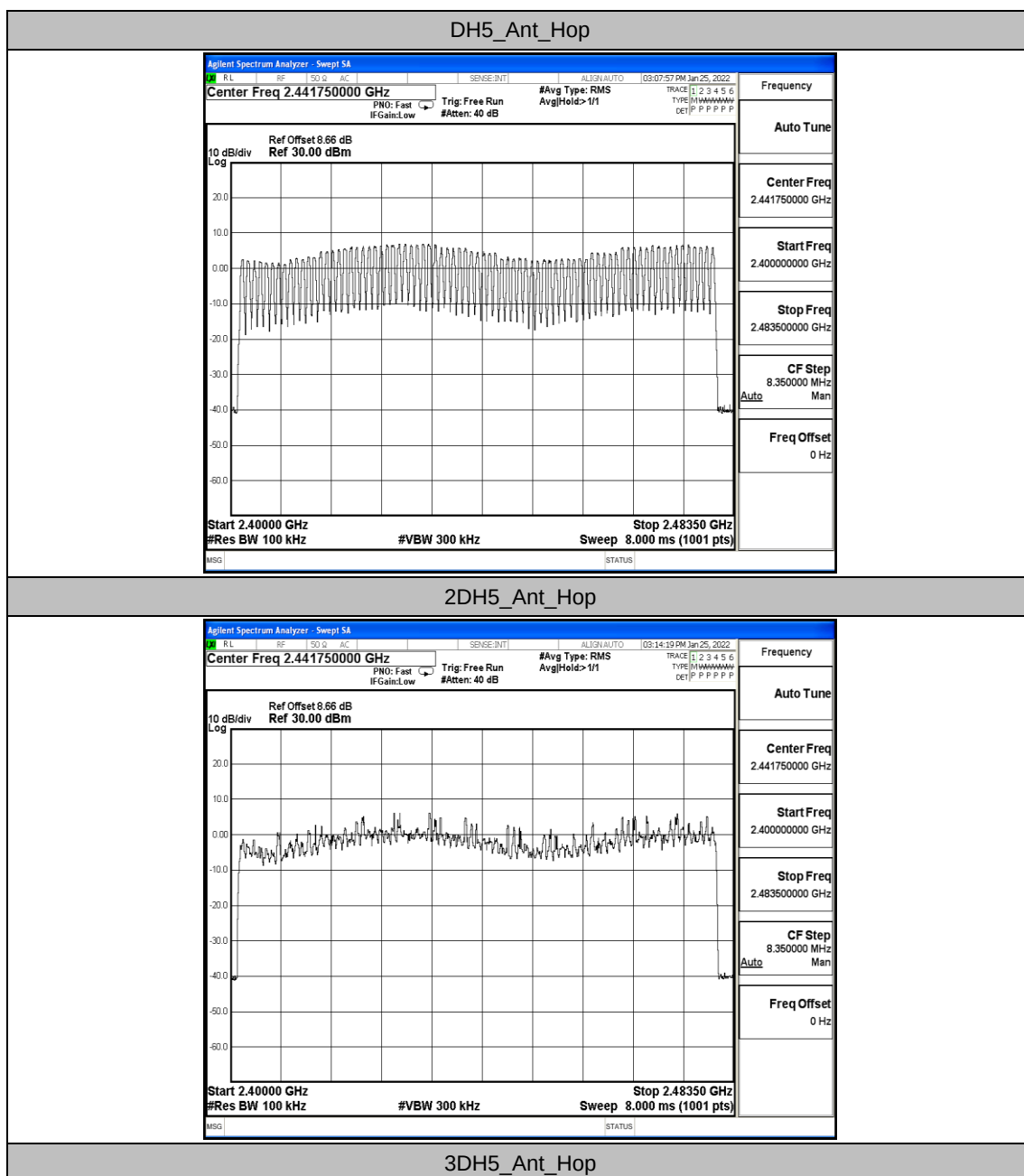


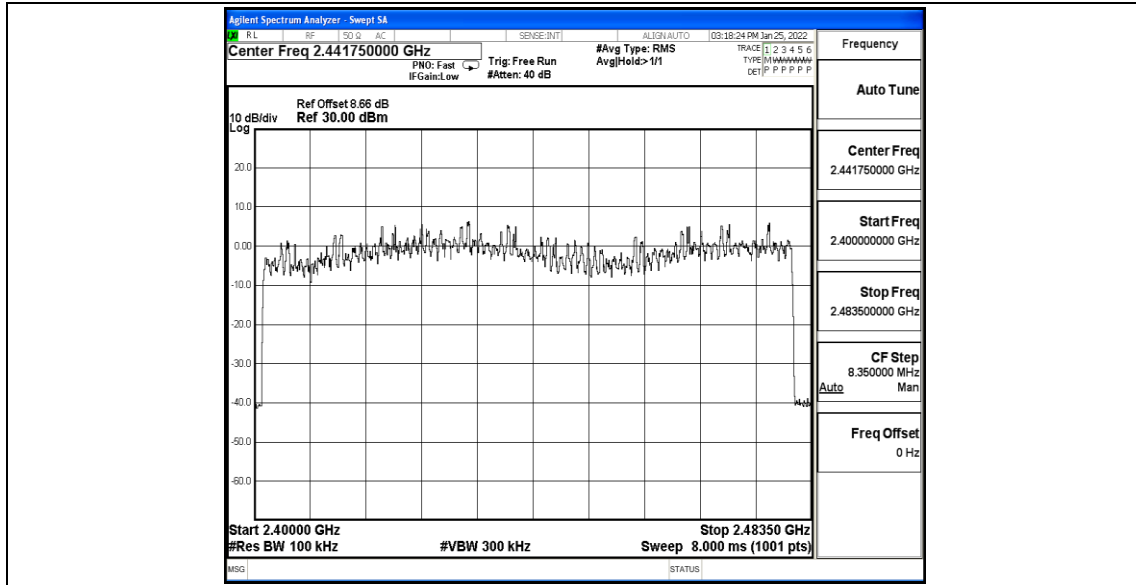
A.5 Number of hopping channels

Test Result

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

Test Graphs





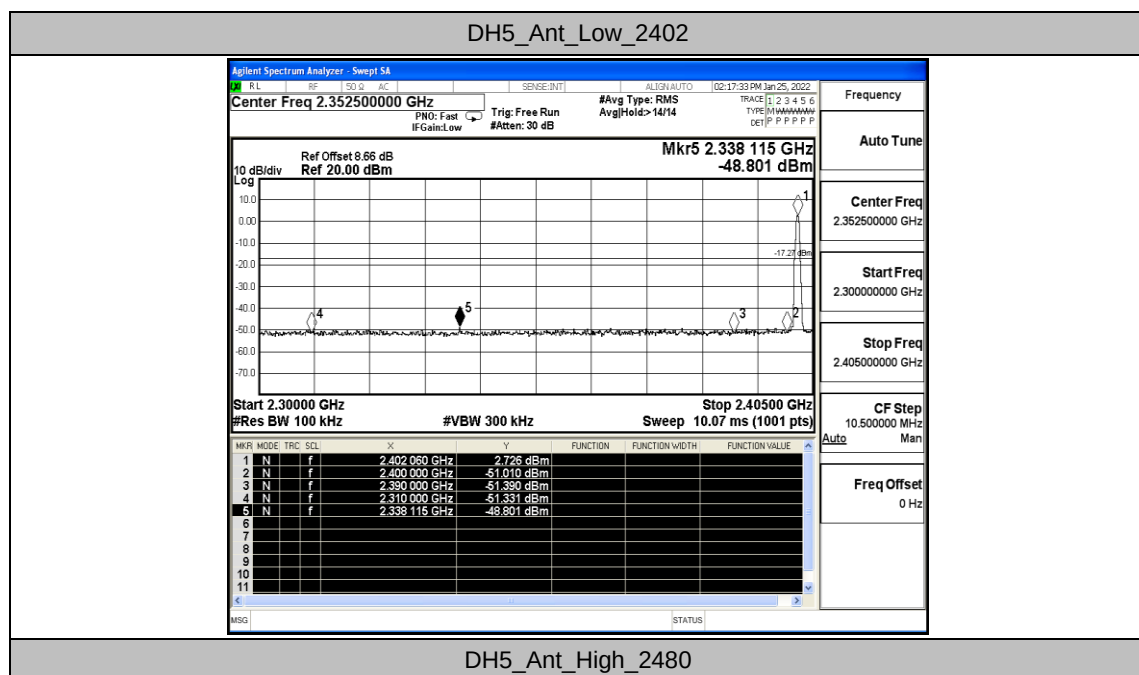


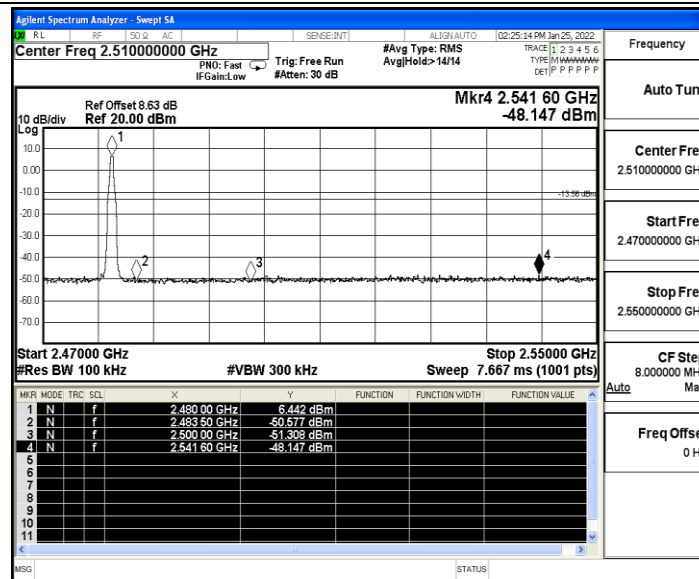
A.6 Band edge measurements

Test Result

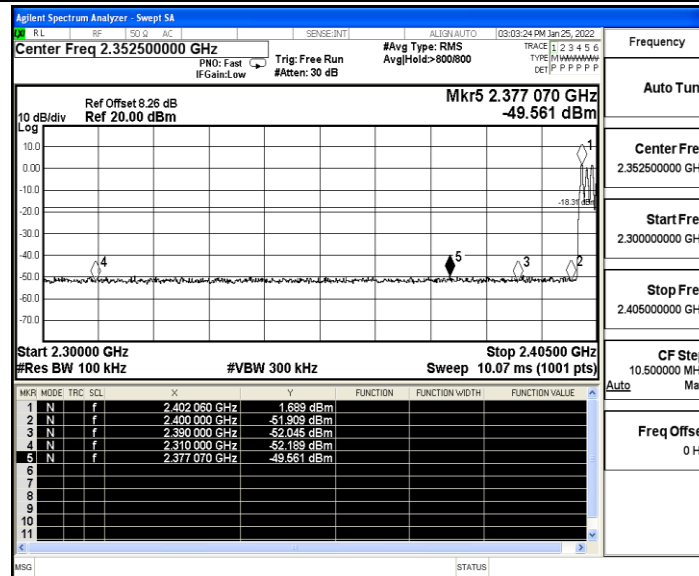
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	2.73	-48.8	≤-17.27	PASS
		High	2480	6.44	-48.15	≤-13.56	PASS
		Low	Hop_2402	1.69	-49.56	≤-18.31	PASS
		High	Hop_2480	6.60	-47.25	≤-13.4	PASS
2DH5	Ant	Low	2402	1.83	-49.27	≤-18.17	PASS
		High	2480	5.63	-47.84	≤-14.38	PASS
		Low	Hop_2402	-1.69	-48.98	≤-21.69	PASS
		High	Hop_2480	4.98	-47.72	≤-15.02	PASS
3DH5	Ant	Low	2402	-0.04	-48.79	≤-20.04	PASS
		High	2480	5.49	-47.96	≤-14.51	PASS
		Low	Hop_2402	-0.23	-49.48	≤-20.23	PASS
		High	Hop_2480	5.46	-48	≤-14.55	PASS

Test Graphs

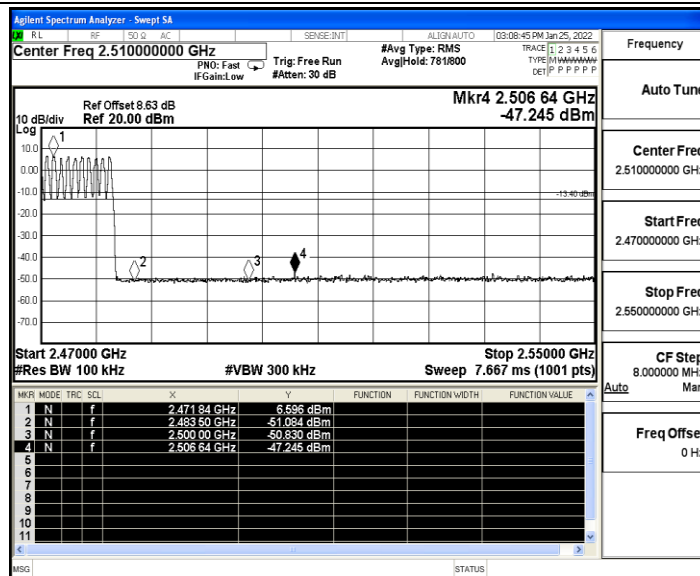




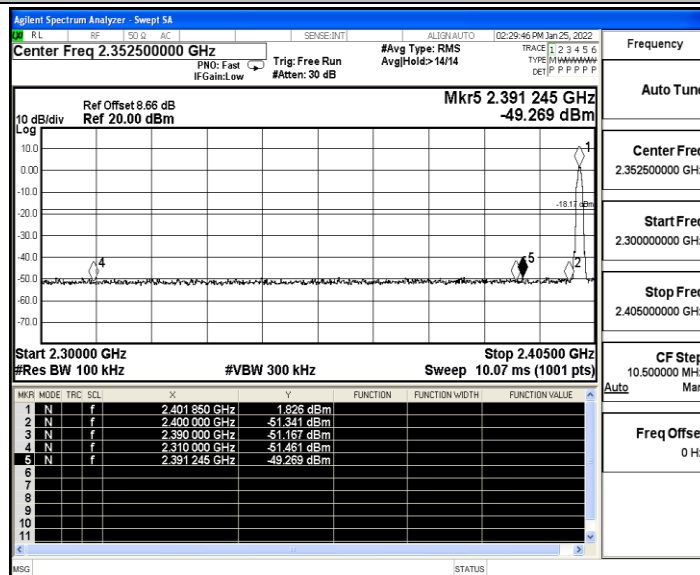
DH5_Ant_Low_Hop_2402



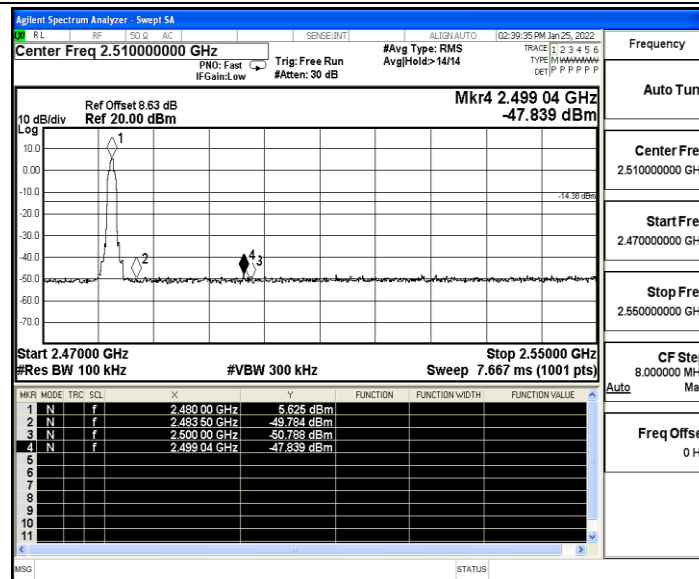
DH5_Ant_High_Hop_2480



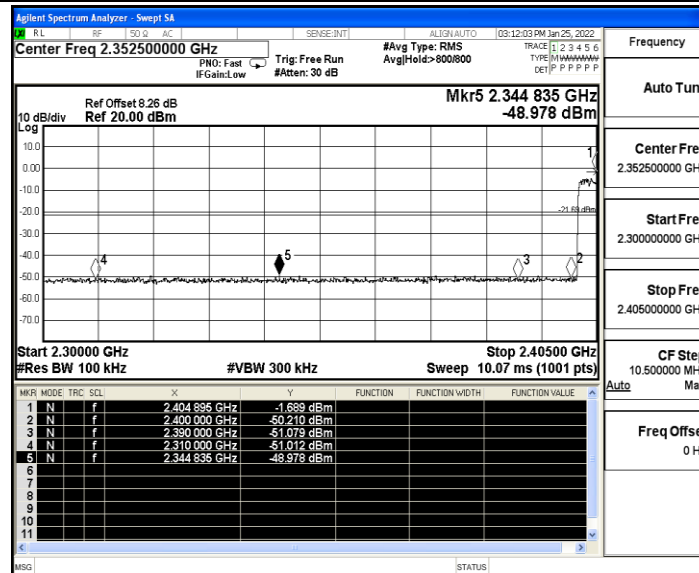
2DH5_Ant_Low_2402



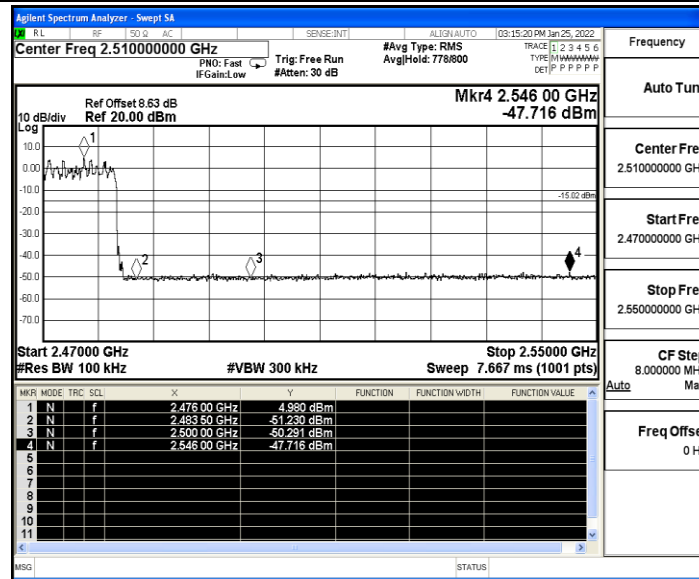
2DH5_Ant_High_2480



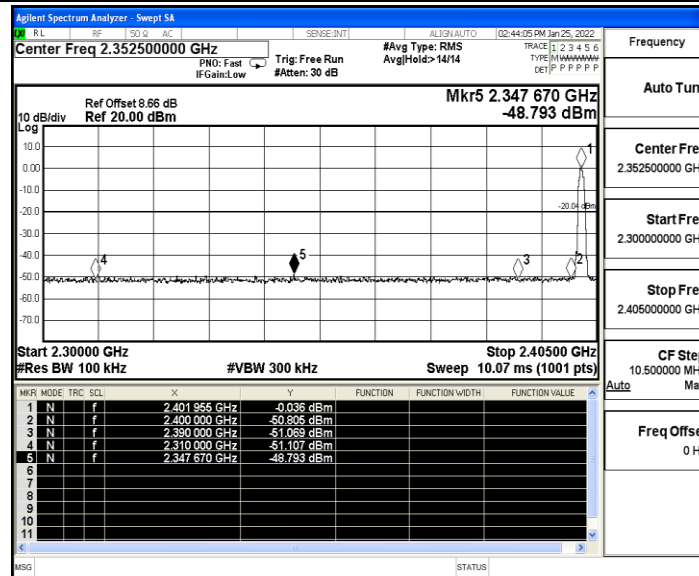
2DH5_Ant_Low_Hop_2402



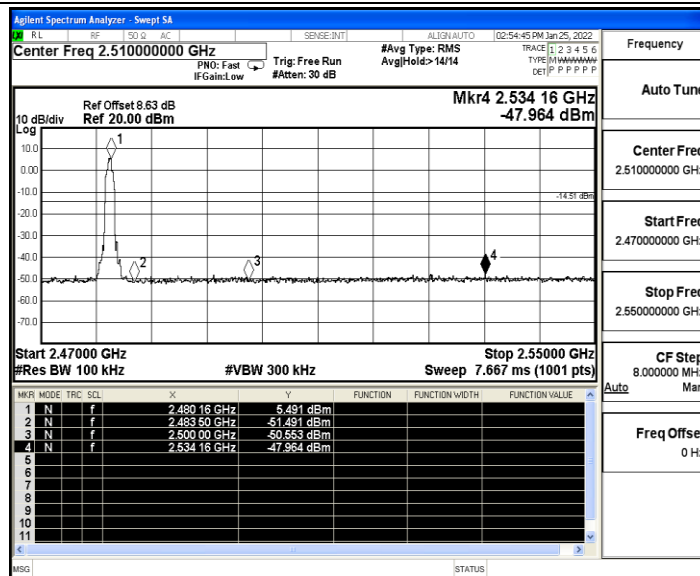
2DH5_Ant_High_Hop_2480



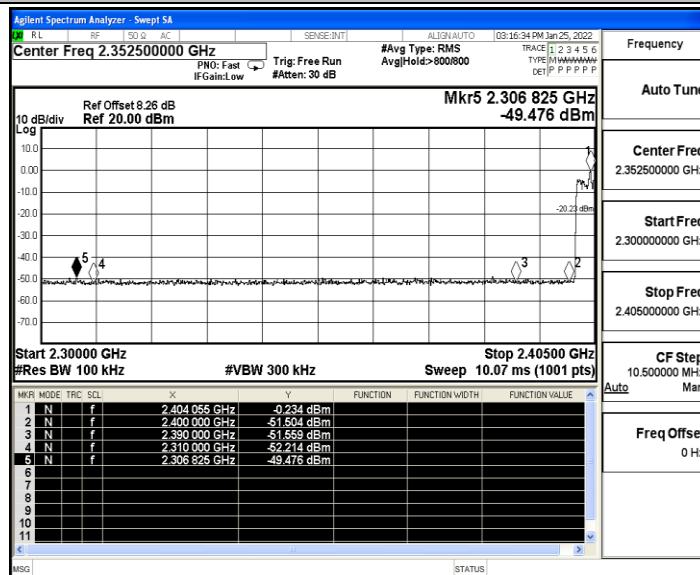
3DH5_Ant_Low_2402



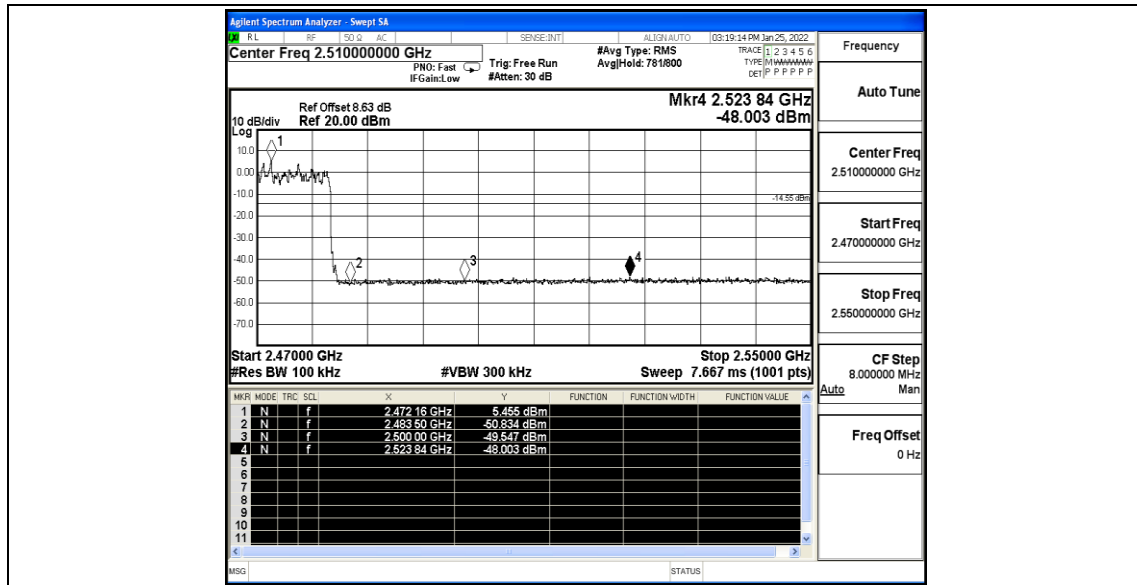
3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402



3DH5_Ant_High_Hop_2480





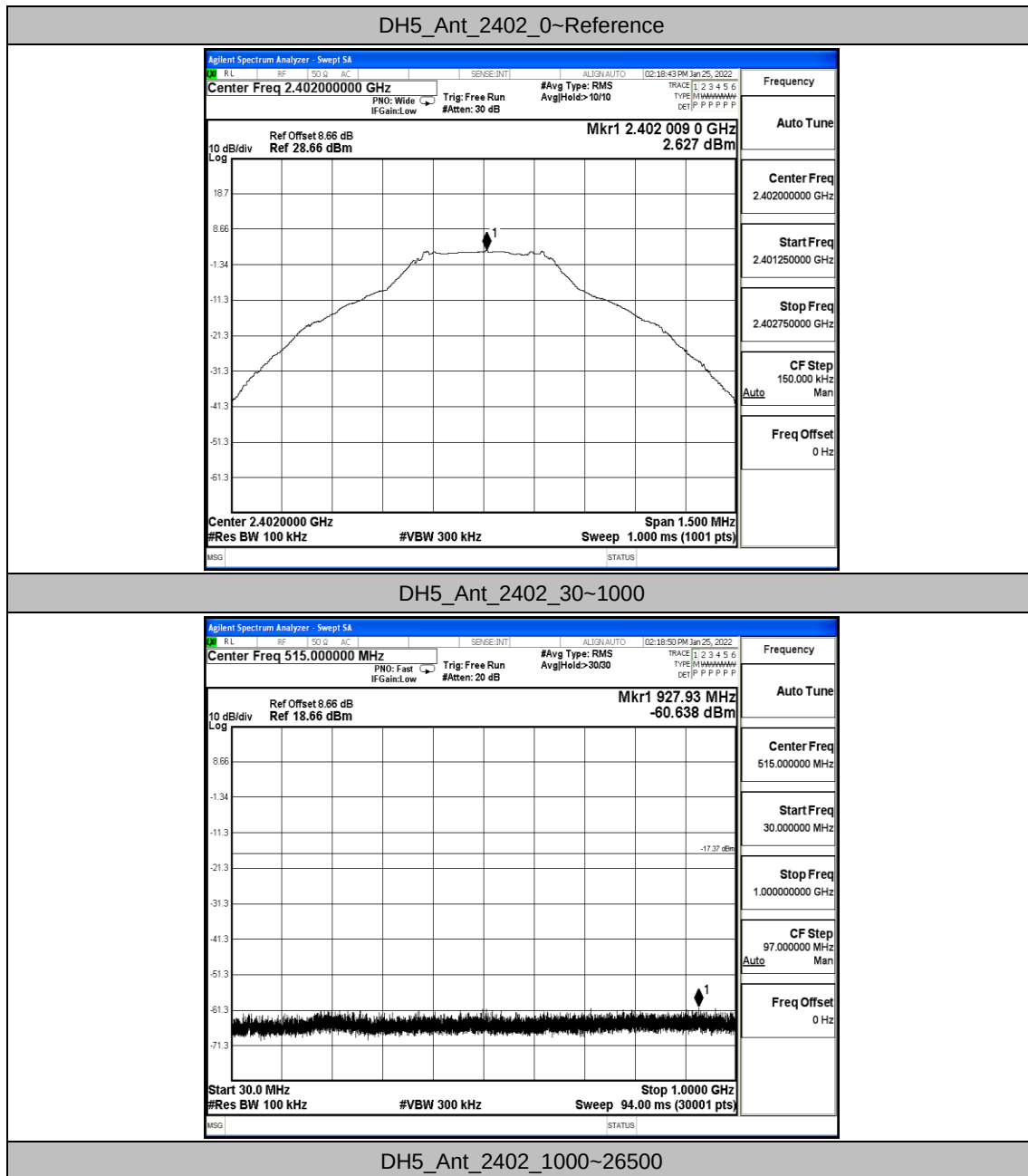
A.7 Conducted Spurious Emission

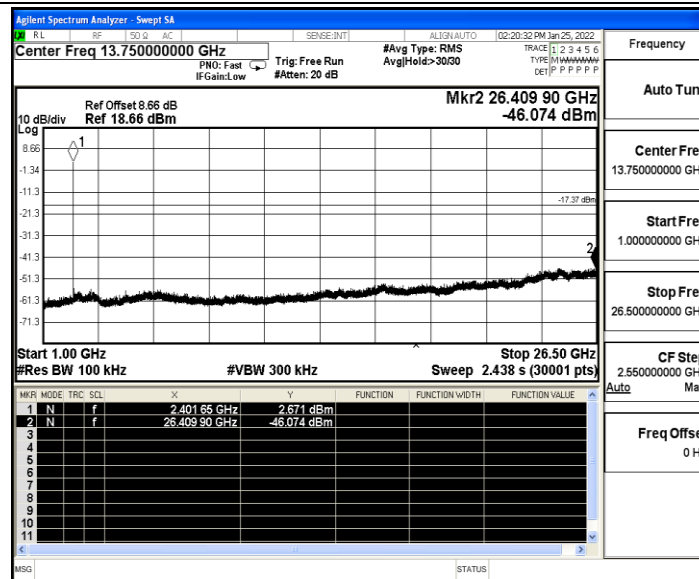
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-60.64	≤ -17.37	PASS
			1000~26500	2.63	-46.07	≤ -17.37	PASS
		2441	Reference	4.74	4.74	---	PASS
			30~1000	4.74	-59.94	≤ -15.26	PASS
			1000~26500	4.74	-46.19	≤ -15.26	PASS
		2480	Reference	6.14	6.14	---	PASS
			30~1000	6.14	-60.13	≤ -13.86	PASS
			1000~26500	6.14	-45.89	≤ -13.86	PASS
2DH5	Ant	2402	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-60.61	≤ -18.25	PASS
			1000~26500	1.75	-46.21	≤ -18.25	PASS
		2441	Reference	3.93	3.93	---	PASS
			30~1000	3.93	-60.21	≤ -16.07	PASS
			1000~26500	3.93	-46.58	≤ -16.07	PASS
		2480	Reference	5.54	5.54	---	PASS
			30~1000	5.54	-60.13	≤ -14.46	PASS
			1000~26500	5.54	-45.86	≤ -14.46	PASS
3DH5	Ant	2402	Reference	1.60	1.60	---	PASS
			30~1000	1.60	-60.67	≤ -18.4	PASS
			1000~26500	1.60	-46.1	≤ -18.4	PASS
		2441	Reference	3.96	3.96	---	PASS
			30~1000	3.96	-59.68	≤ -16.04	PASS
			1000~26500	3.96	-45.82	≤ -16.04	PASS
		2480	Reference	5.44	5.44	---	PASS
			30~1000	5.44	-60.88	≤ -14.56	PASS
			1000~26500	5.44	-46.28	≤ -14.56	PASS

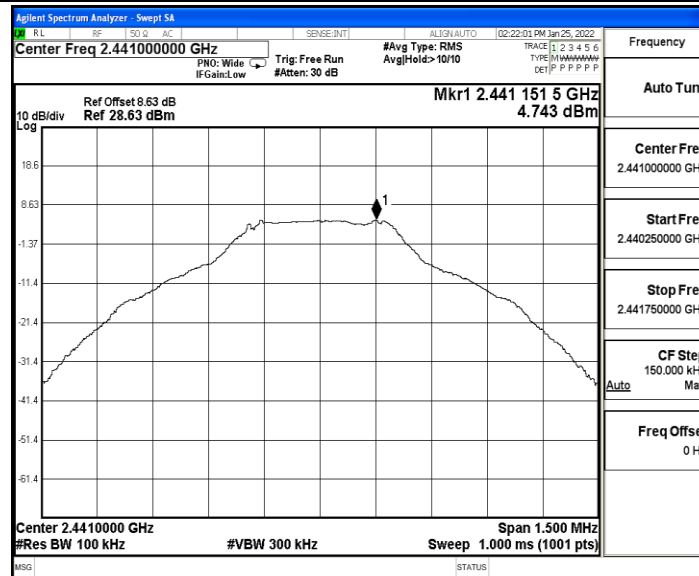


Test Graphs

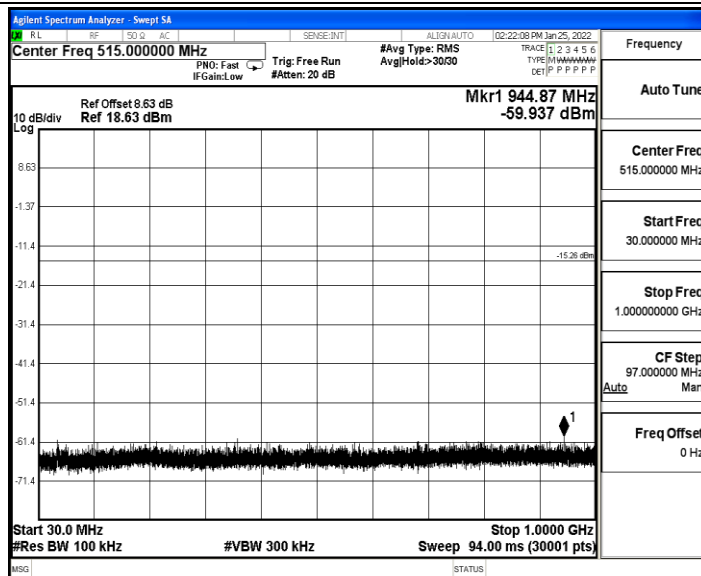




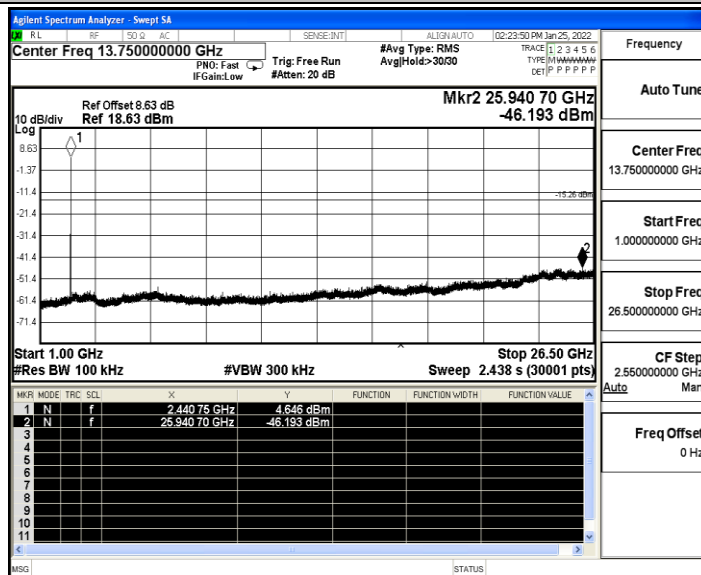
DH5_Ant_2441_0~Reference



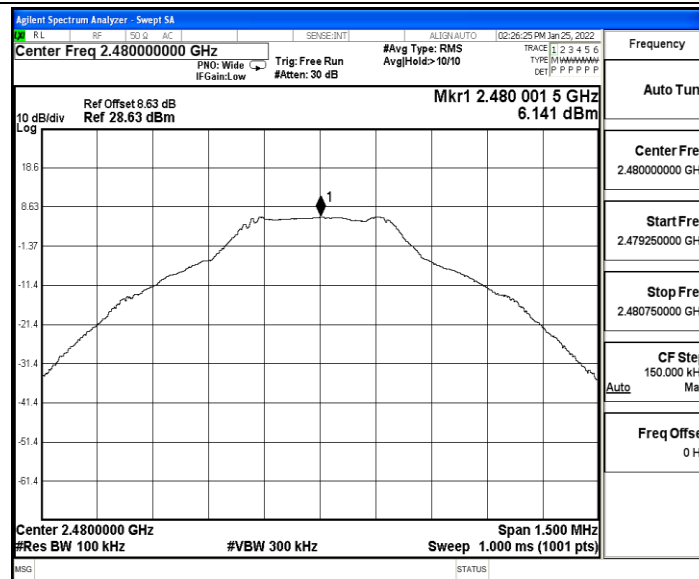
DH5_Ant_2441_30~1000



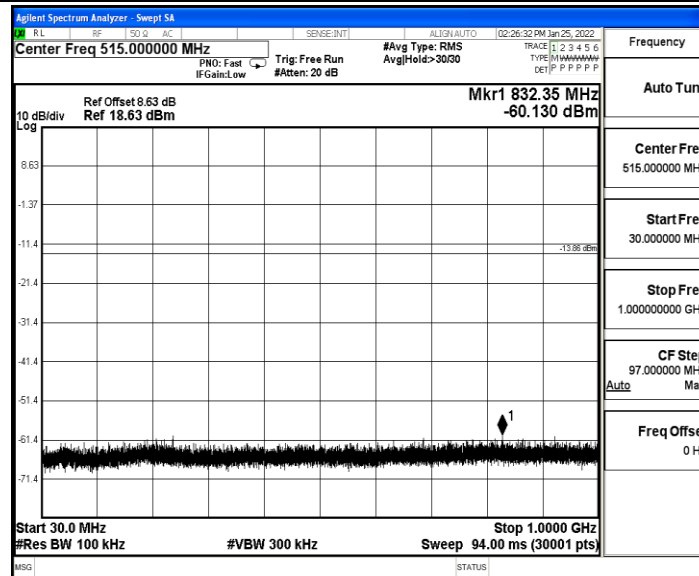
DH5_Ant_2441_1000~26500



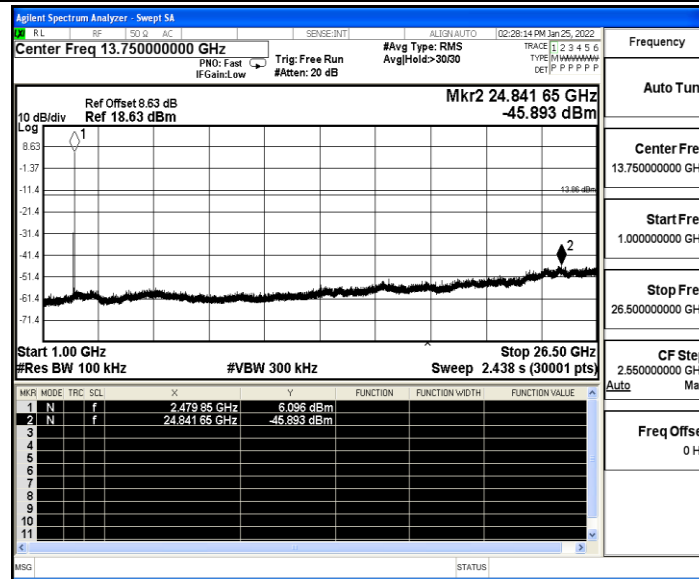
DH5_Ant_2480_0~Reference



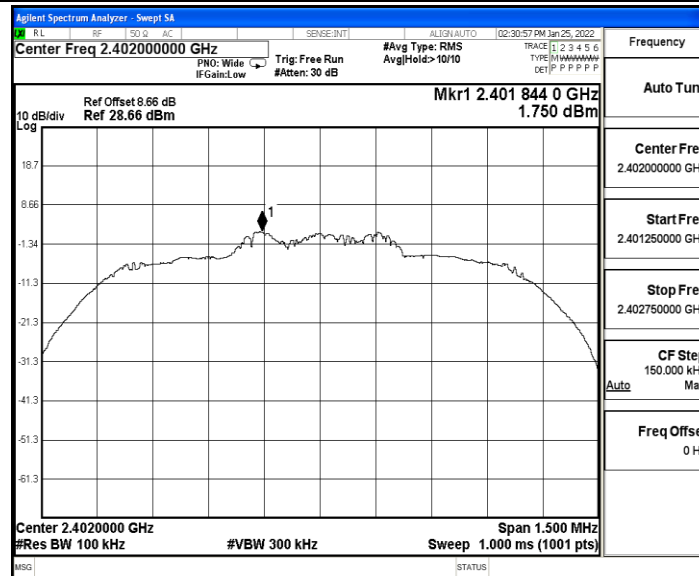
DH5_Ant_2480_30~1000



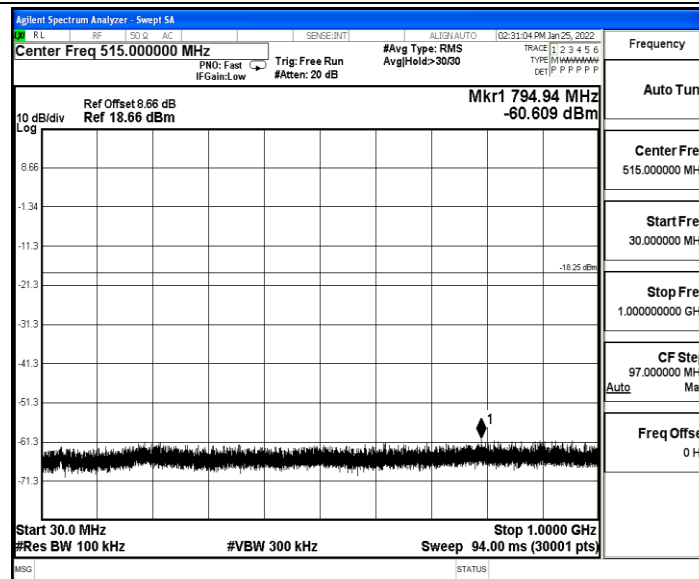
DH5_Ant_2480_1000~26500



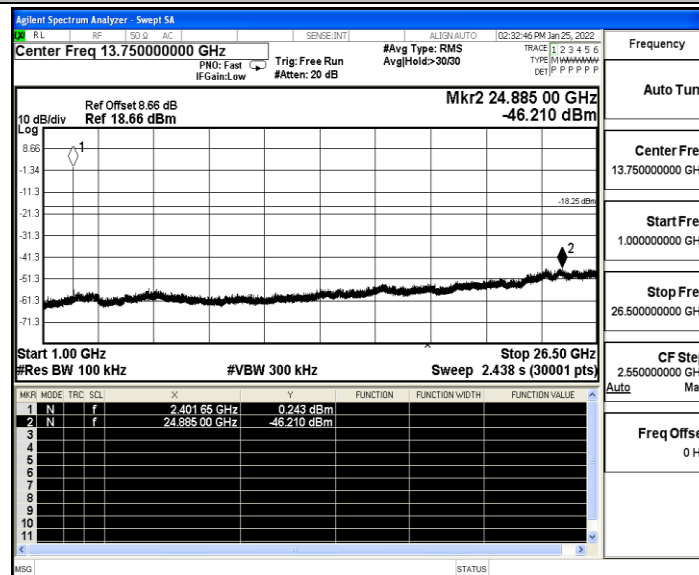
2DH5_Ant_2402_0~Reference



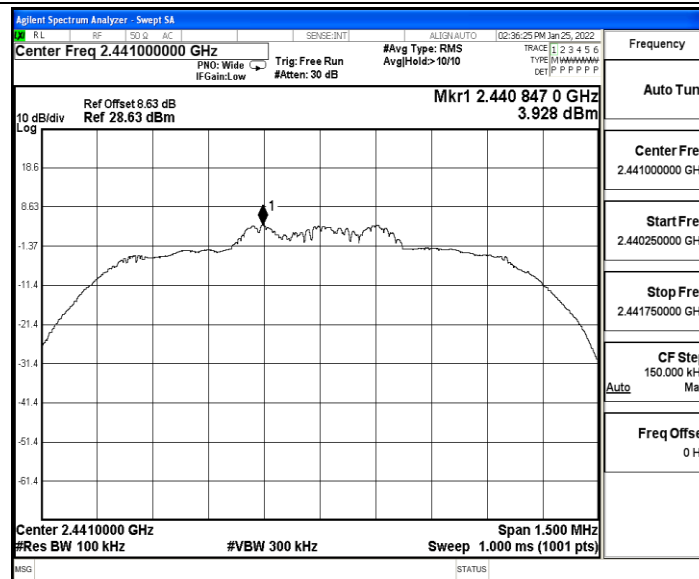
2DH5_Ant_2402_30~1000



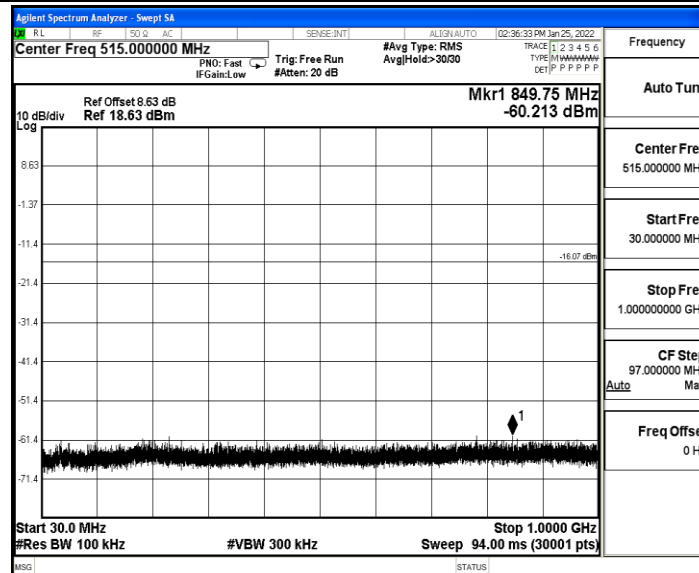
2DH5_Ant_2402_1000~26500



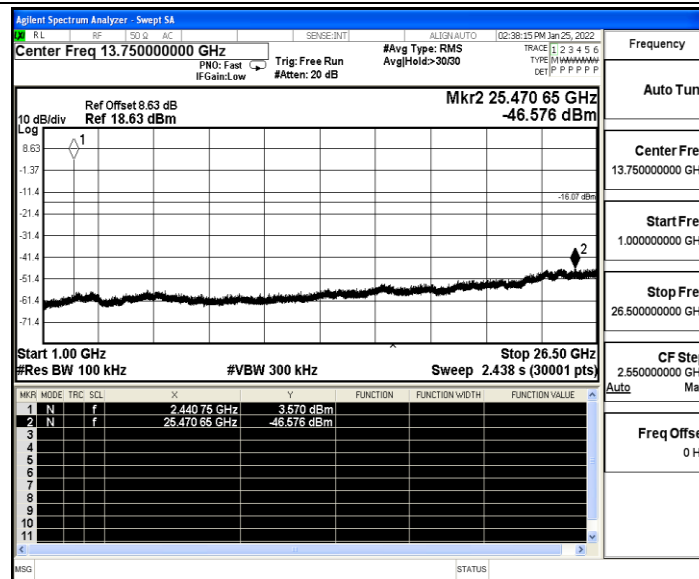
2DH5_Ant_2441_0~Reference



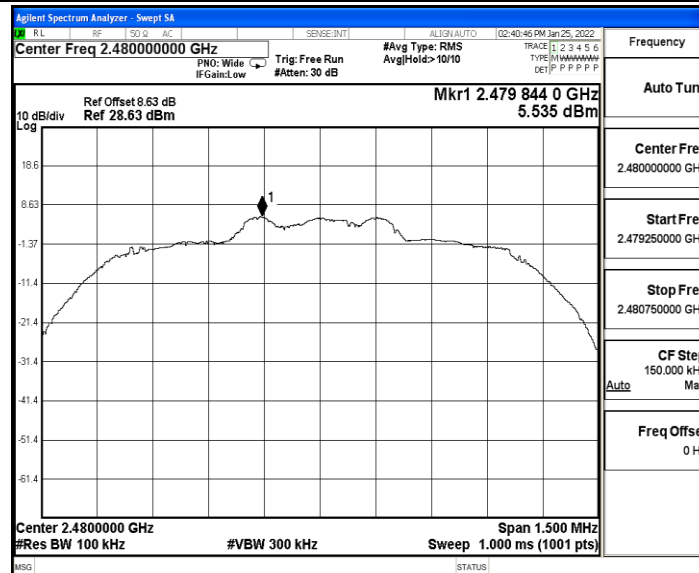
2DH5_Ant_2441_30~1000



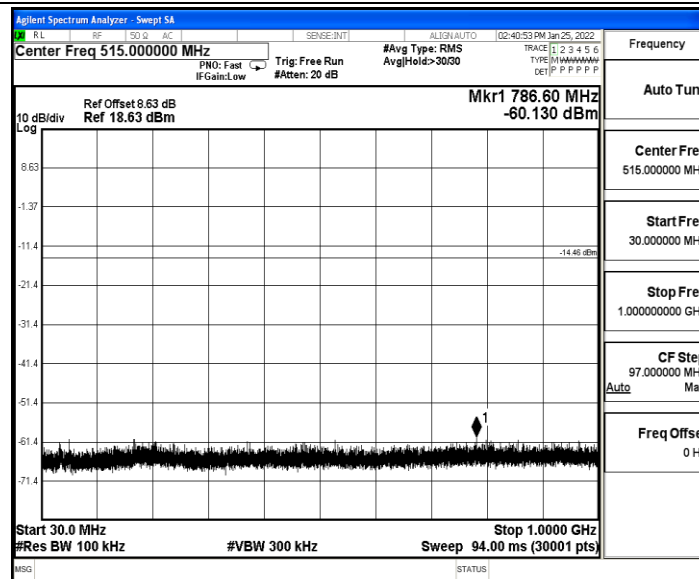
2DH5_Ant_2441_1000~26500



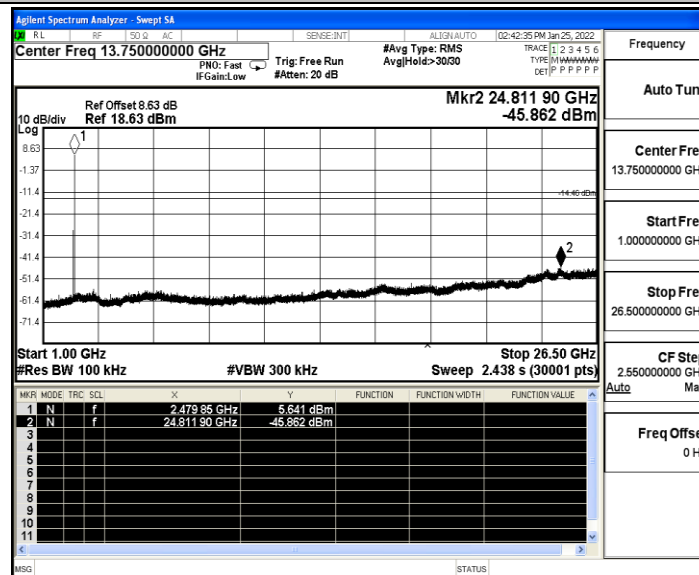
2DH5_Ant_2480_0~Reference



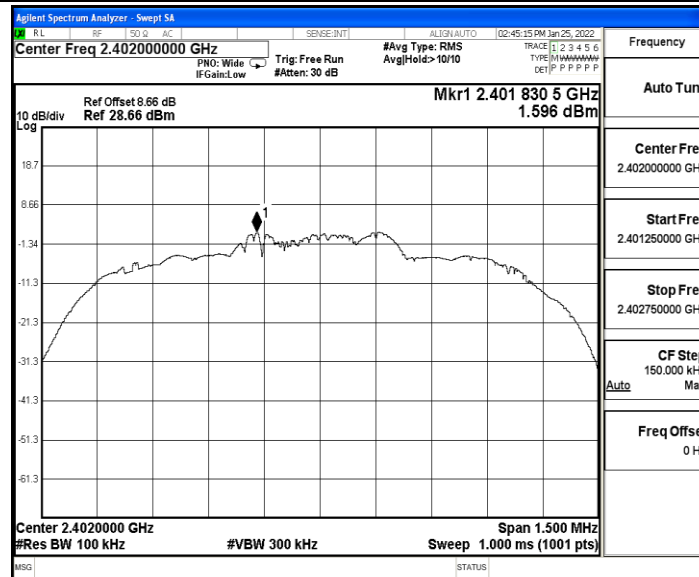
2DH5_Ant_2480_30~1000



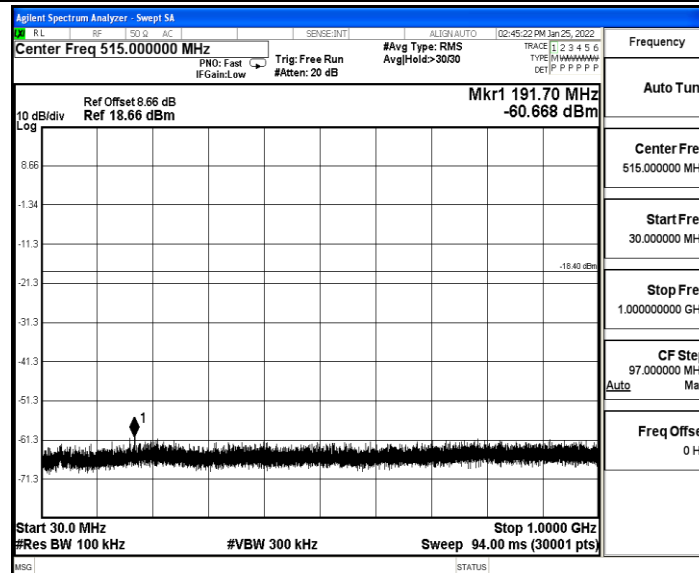
2DH5_Ant_2480_1000~26500



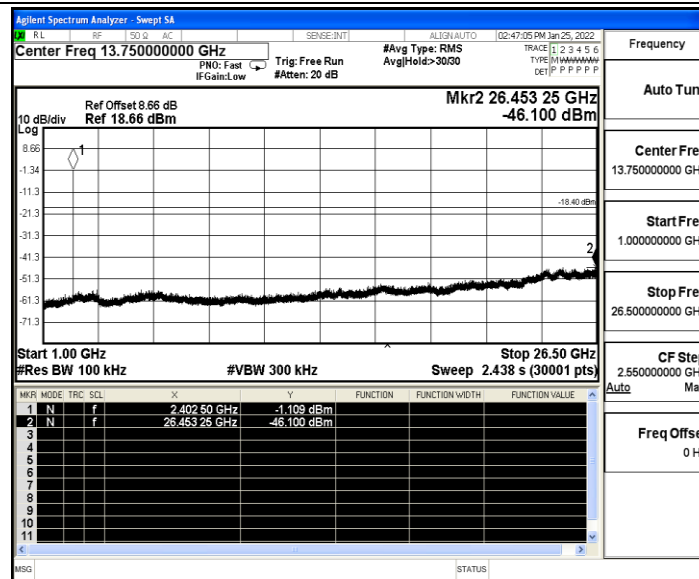
3DH5_Ant_2402_0~Reference



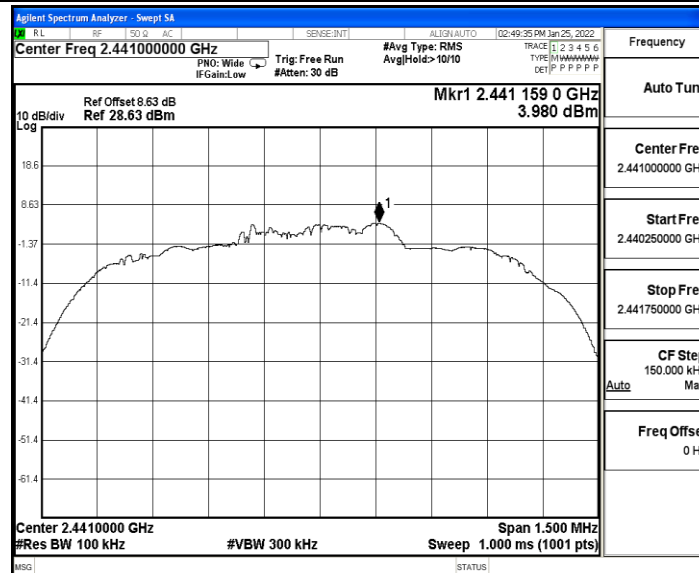
3DH5_Ant_2402_30~1000



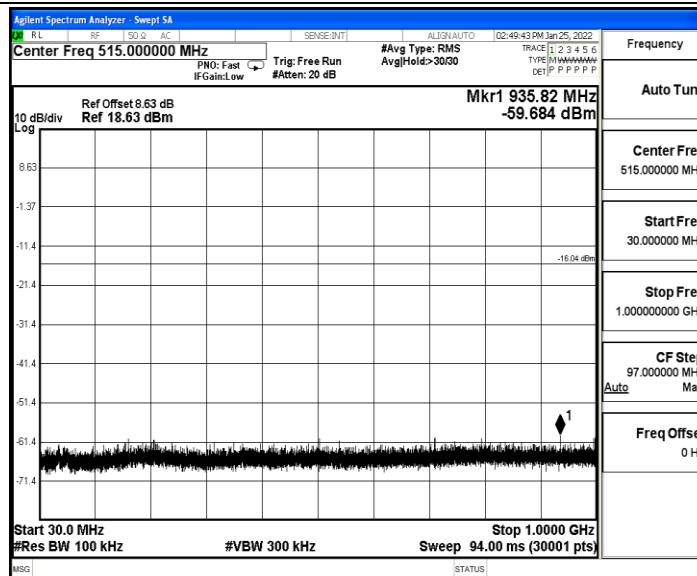
3DH5_Ant_2402_1000~26500



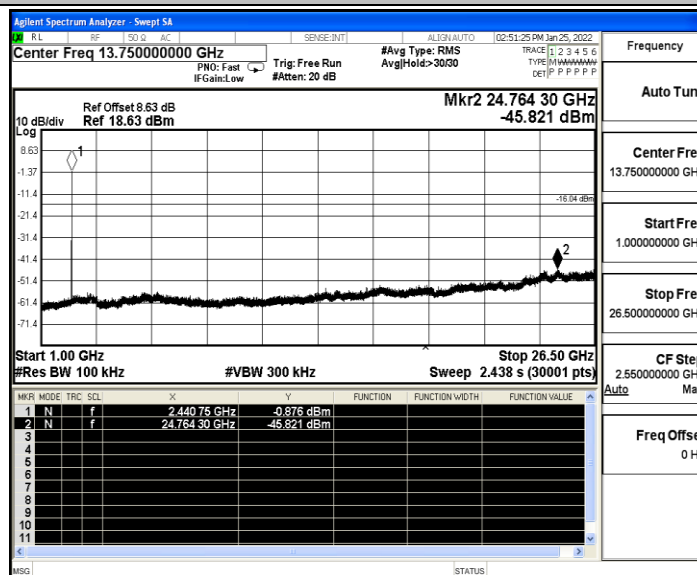
3DH5_Ant_2441_0~Reference



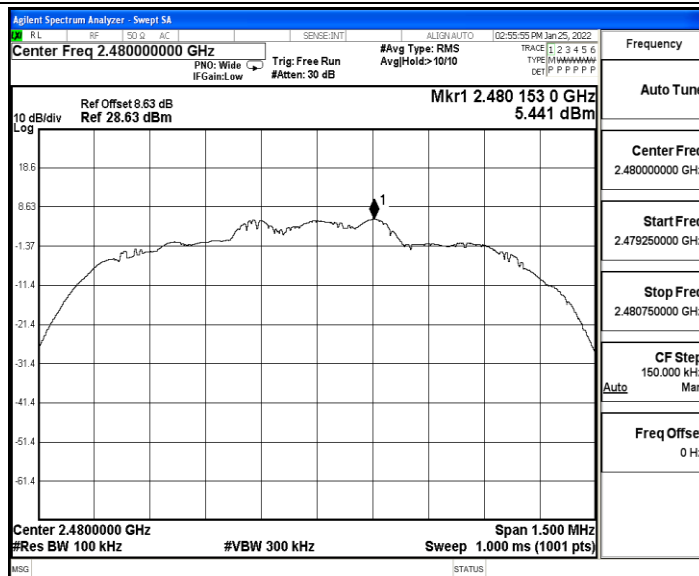
3DH5_Ant_2441_30~1000



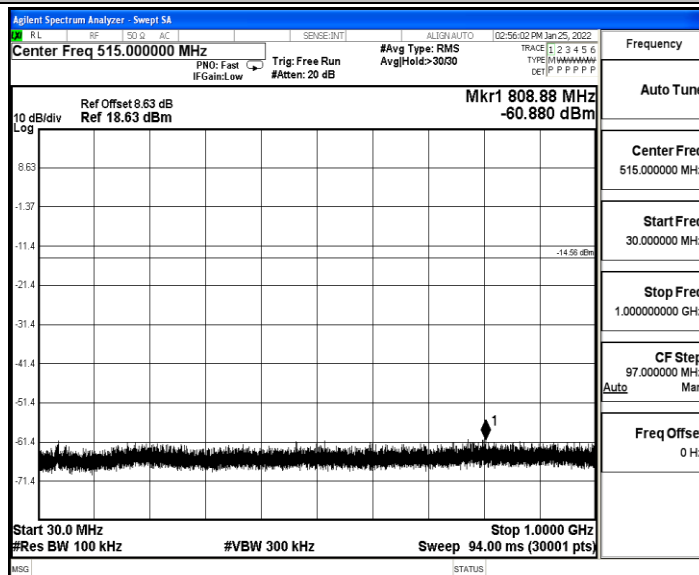
3DH5_Ant_2441_1000~26500



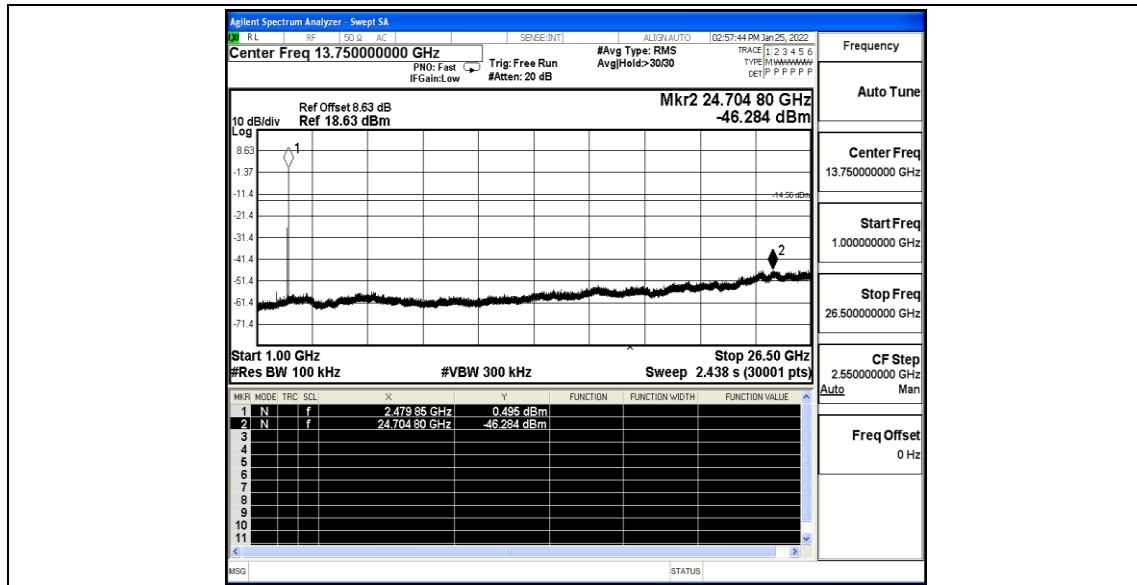
3DH5_Ant_2480_0~Reference



3DH5_Ant_2480_30~1000



3DH5_Ant_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	Ant	Low	2402	AV	2310.000	-48.25	≤-41.20	46.95	≤54	PASS
				AV	2378.225	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2390.000	-47.91	≤-41.20	47.29	≤54	PASS
				Peak	2310.000	-38.33	≤-21.20	56.87	≤74	PASS
				Peak	2330.240	-35.89	≤-21.20	59.31	≤74	PASS
				Peak	2390.000	-38.43	≤-21.20	56.77	≤74	PASS
		High	2480	AV	2483.500	-46.63	≤-41.20	48.57	≤54	PASS
				AV	2483.520	-46.63	≤-41.20	48.57	≤54	PASS
				AV	2500.000	-47.43	≤-41.20	47.77	≤54	PASS
				Peak	2483.500	-37.33	≤-21.20	57.87	≤74	PASS
				Peak	2487.360	-36.24	≤-21.20	58.96	≤74	PASS
				Peak	2500.000	-38.14	≤-21.20	57.06	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-48.18	≤-41.20	47.02	≤54	PASS
				AV	2386.625	-47.7	≤-41.20	47.50	≤54	PASS
				AV	2390.000	-47.93	≤-41.20	47.27	≤54	PASS
				Peak	2310.000	-38.07	≤-21.20	57.13	≤74	PASS
				Peak	2371.505	-36.4	≤-21.20	58.80	≤74	PASS
				Peak	2390.000	-37.75	≤-21.20	57.45	≤74	PASS
		High	2480	AV	2483.500	-46.61	≤-41.20	48.59	≤54	PASS
				AV	2483.520	-46.61	≤-41.20	48.59	≤54	PASS
				AV	2500.000	-47.37	≤-41.20	47.83	≤54	PASS
				Peak	2483.500	-37.52	≤-21.20	57.68	≤74	PASS
				Peak	2493.280	-35.72	≤-21.20	59.48	≤74	PASS
				Peak	2500.000	-37.97	≤-21.20	57.23	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-48.2	≤-41.20	47.00	≤54	PASS
				AV	2385.890	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2390.000	-47.97	≤-41.20	47.23	≤54	PASS
				Peak	2310.000	-38	≤-21.20	57.20	≤74	PASS
				Peak	2335.385	-36.54	≤-21.20	58.66	≤74	PASS
				Peak	2390.000	-38.2	≤-21.20	57.00	≤74	PASS
		High	2480	AV	2483.500	-46.66	≤-41.20	48.54	≤54	PASS
				AV	2483.520	-46.66	≤-41.20	48.54	≤54	PASS
				AV	2500.000	-47.33	≤-41.20	47.87	≤54	PASS
				Peak	2483.500	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2499.200	-35.91	≤-21.20	59.29	≤74	PASS
				Peak	2500.000	-37.84	≤-21.20	57.36	≤74	PASS

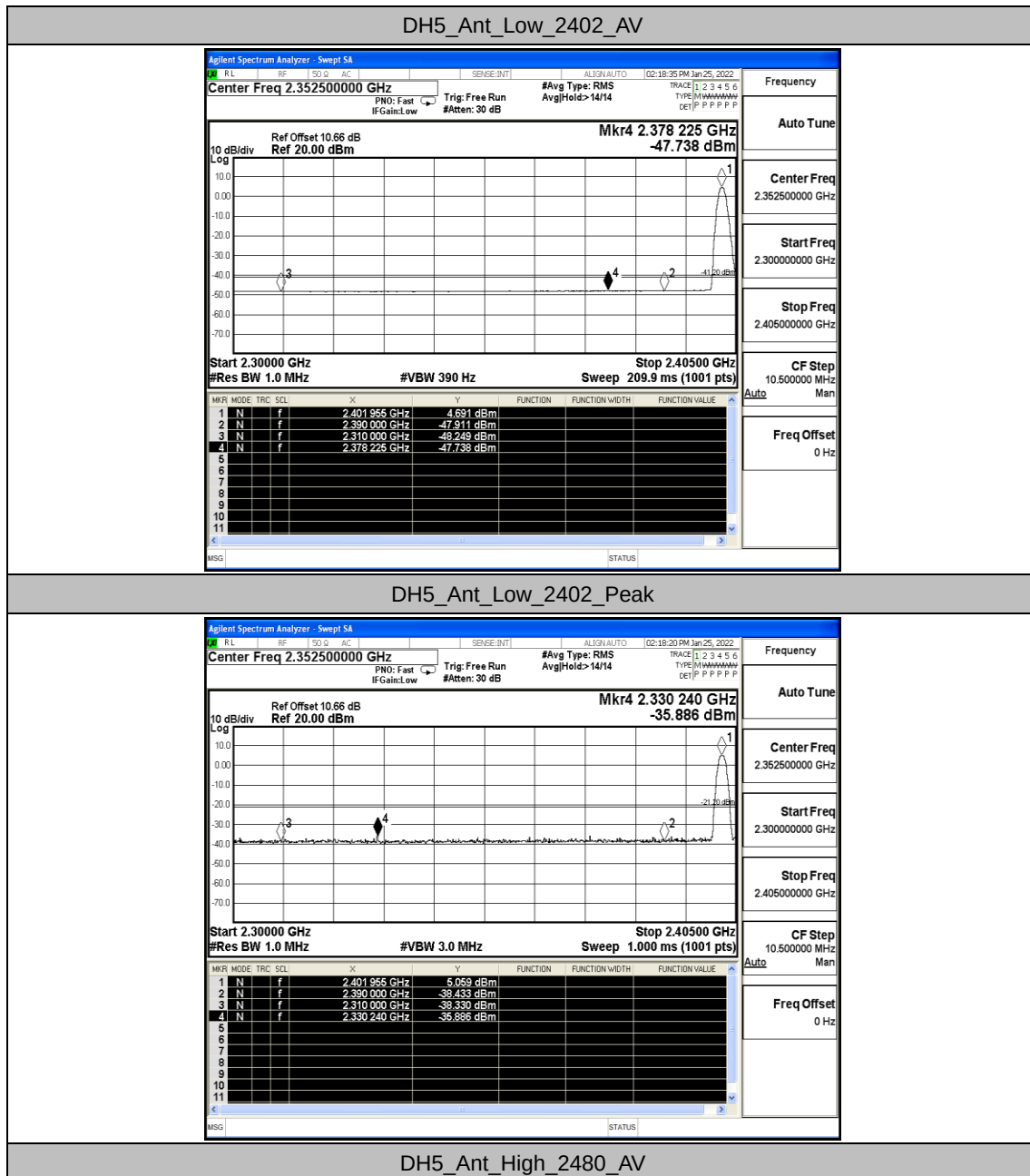


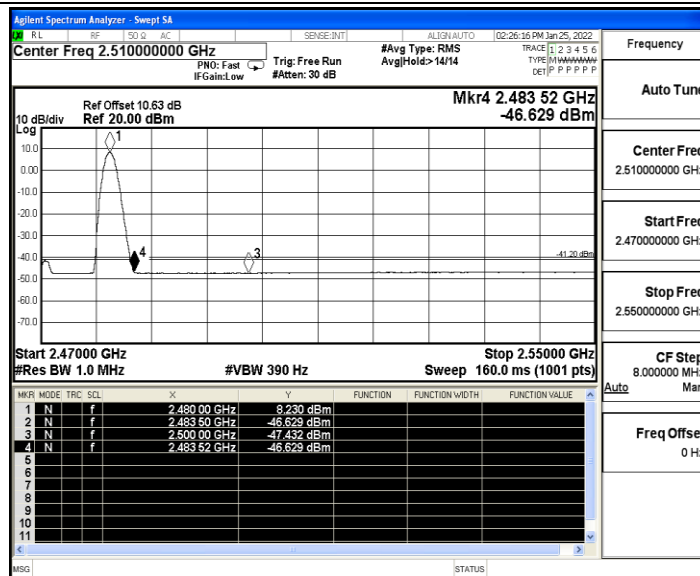
Note:

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.

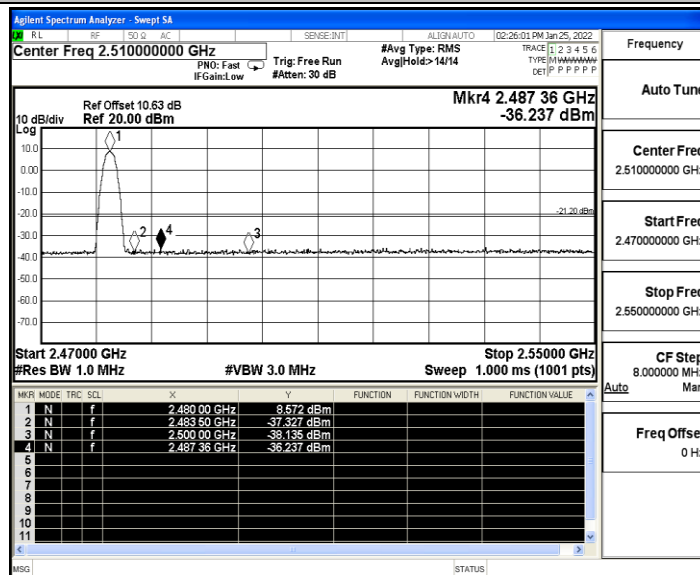


Test Graphs

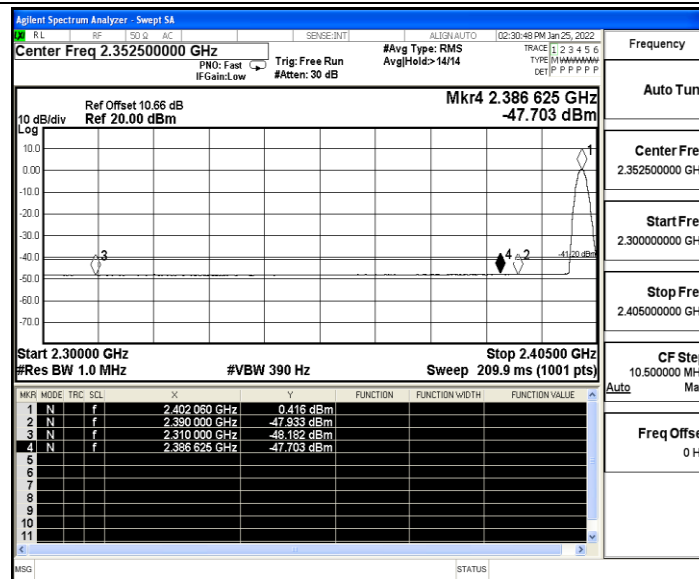




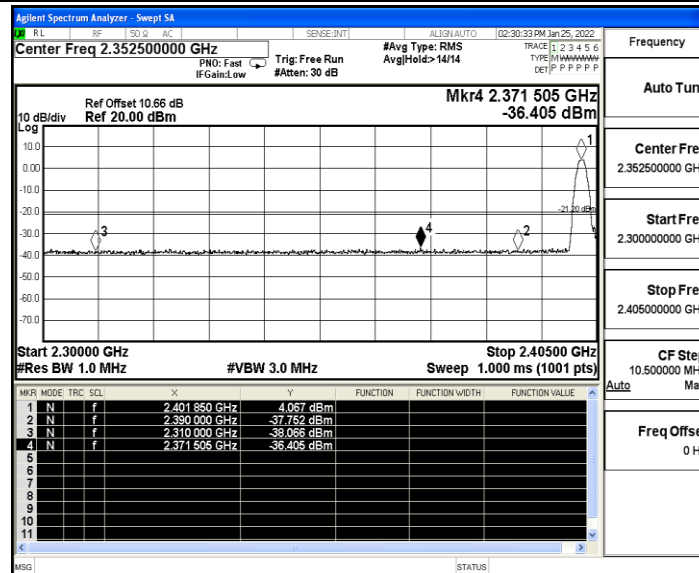
DH5_Ant_High_2480_Peak



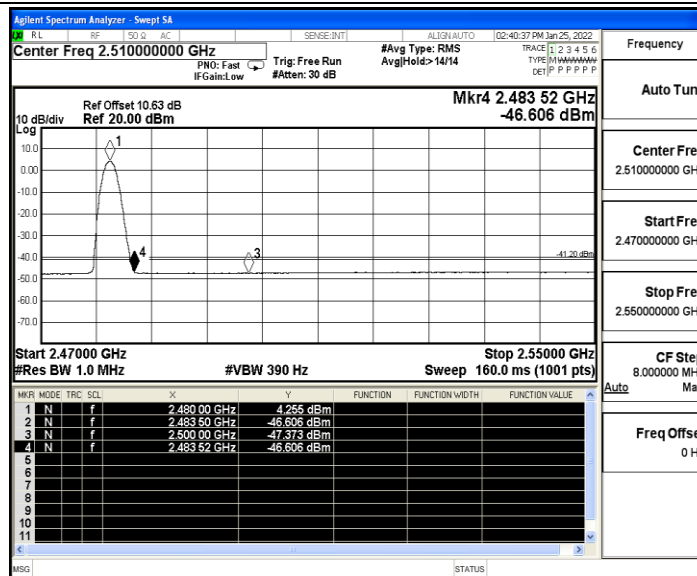
2DH5_Ant_Low_2402_AV



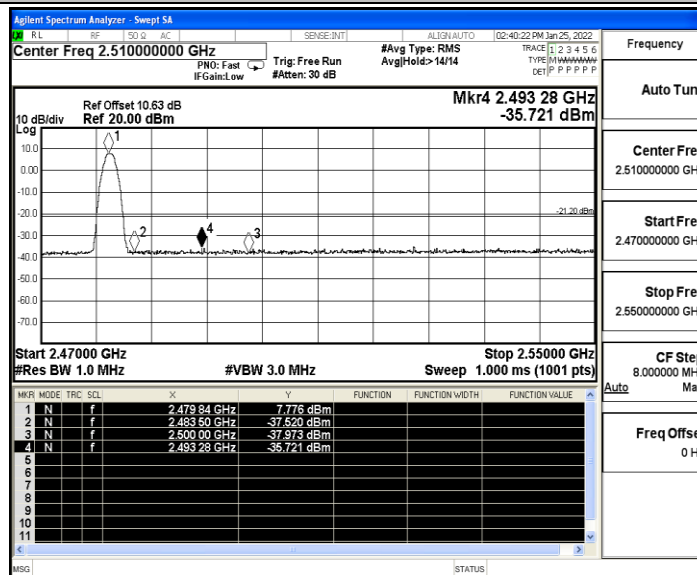
2DH5_Ant_Low_2402_Peak



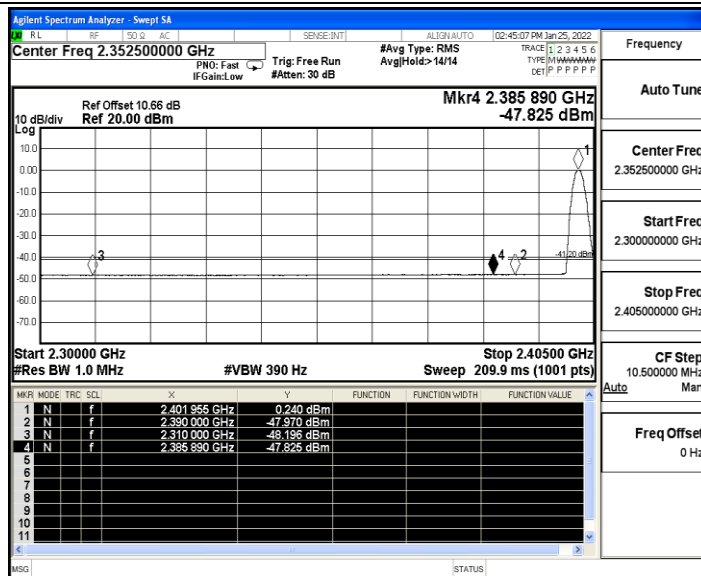
2DH5_Ant_High_2480_AV



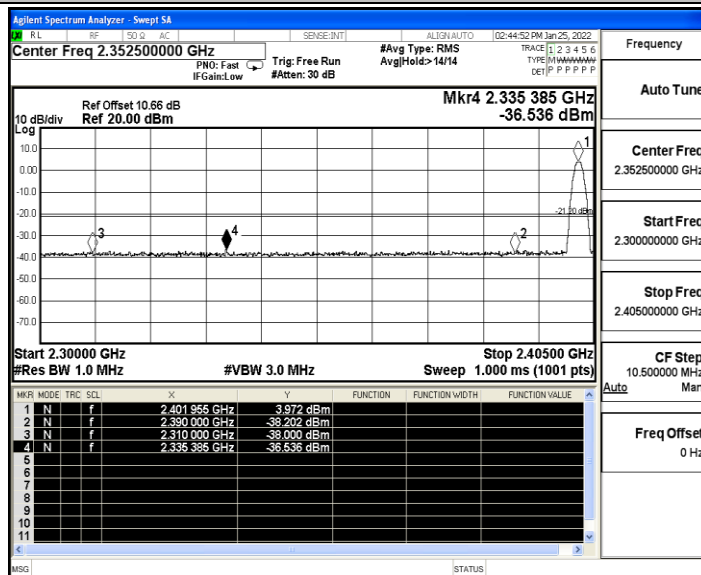
2DH5_Ant_High_2480_Peak



3DH5_Ant_Low_2402_AV



3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV

