



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Rugged Tablet

Test Model: LT901

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

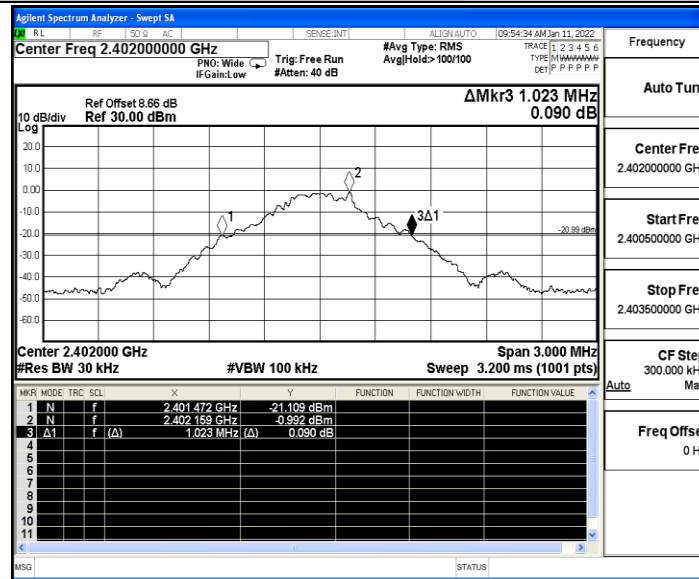
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	1.023	2401.472	2402.495	---	---
		2441	1.044	2440.460	2441.504	---	---
		2480	1.044	2479.457	2480.501	---	---
2DH5	Ant	2402	1.293	2401.361	2402.654	---	---
		2441	1.293	2440.361	2441.654	---	---
		2480	1.293	2479.361	2480.654	---	---
3DH5	Ant	2402	1.296	2401.349	2402.645	---	---
		2441	1.302	2440.346	2441.648	---	---
		2480	1.296	2479.349	2480.645	---	---

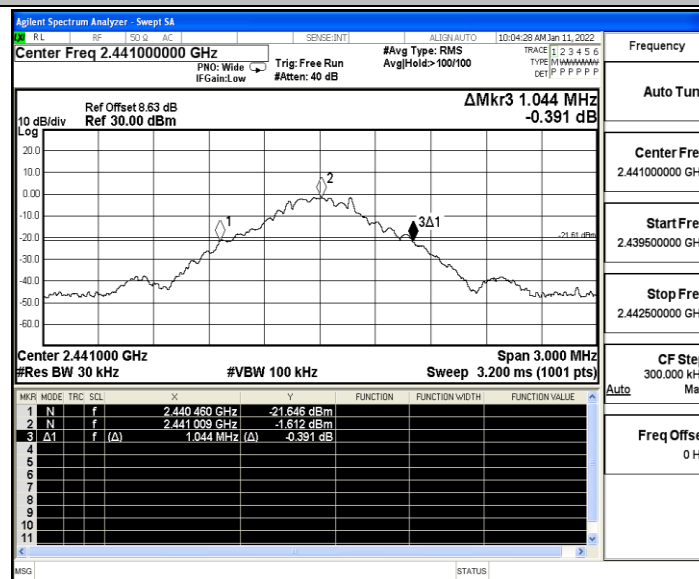


Test Graphs

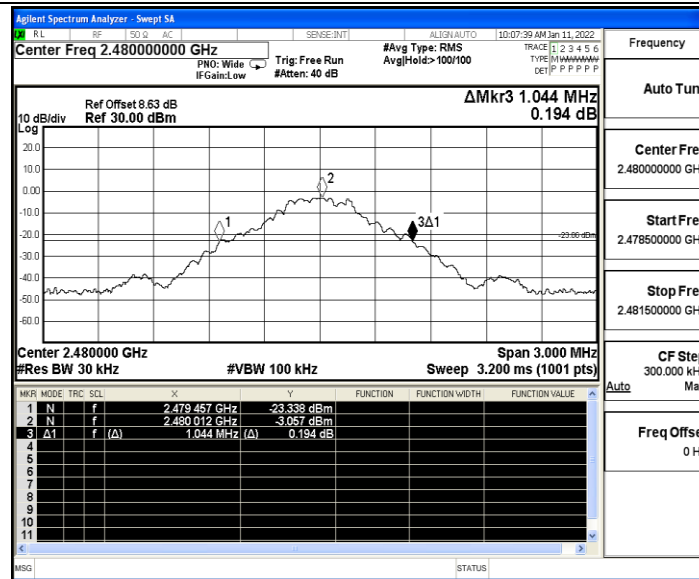
DH5_Ant_2402



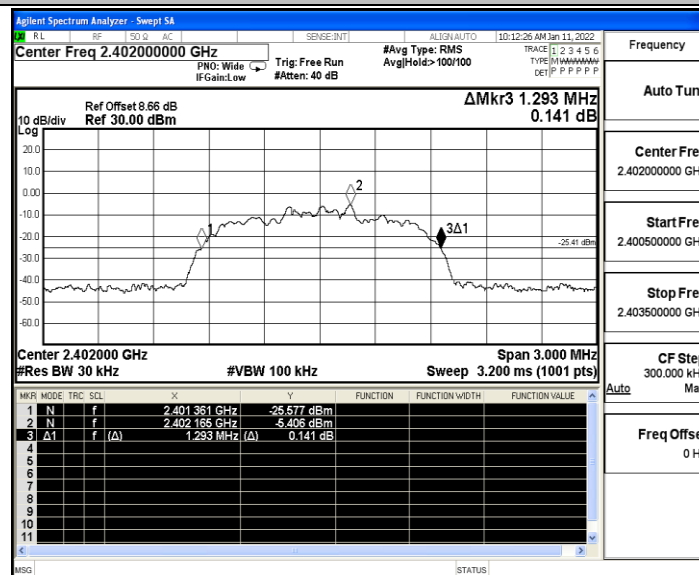
DH5_Ant_2441



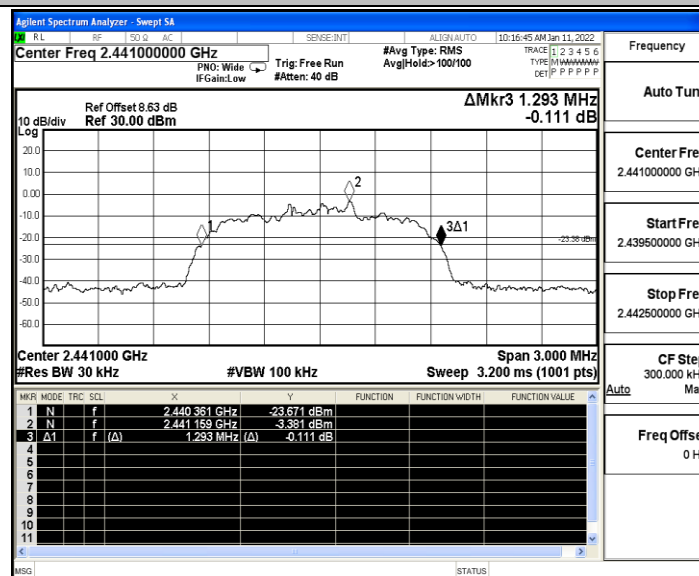
DH5_Ant_2480



2DH5_Ant_2402

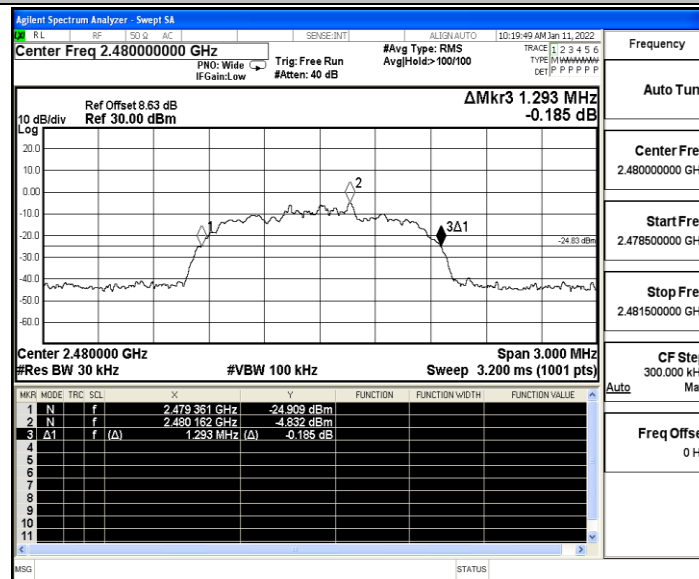


2DH5_Ant_2441

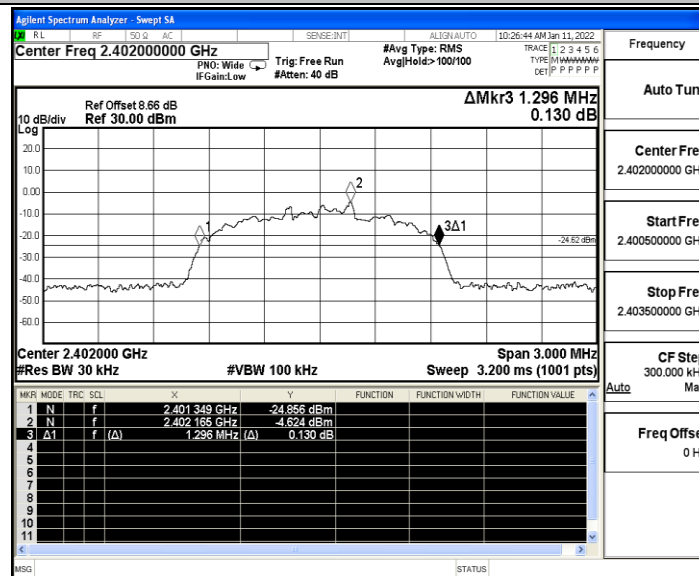




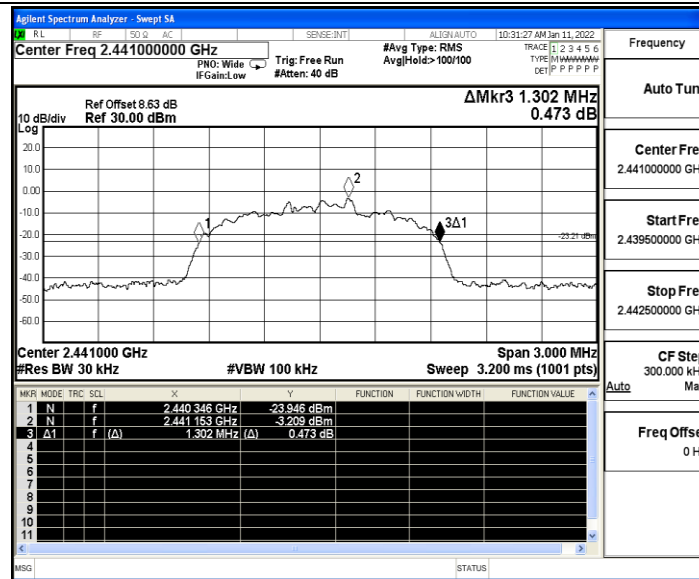
2DH5_Ant_2480



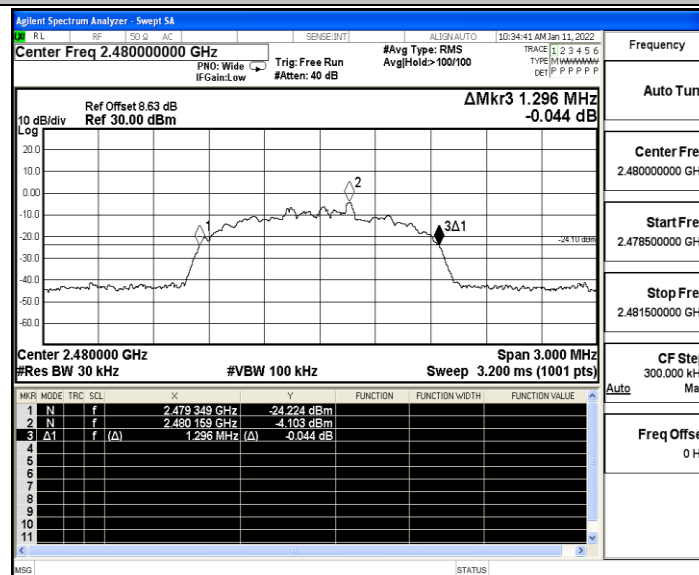
3DH5_Ant_2402



3DH5_Ant_2441



3DH5_Ant_2480





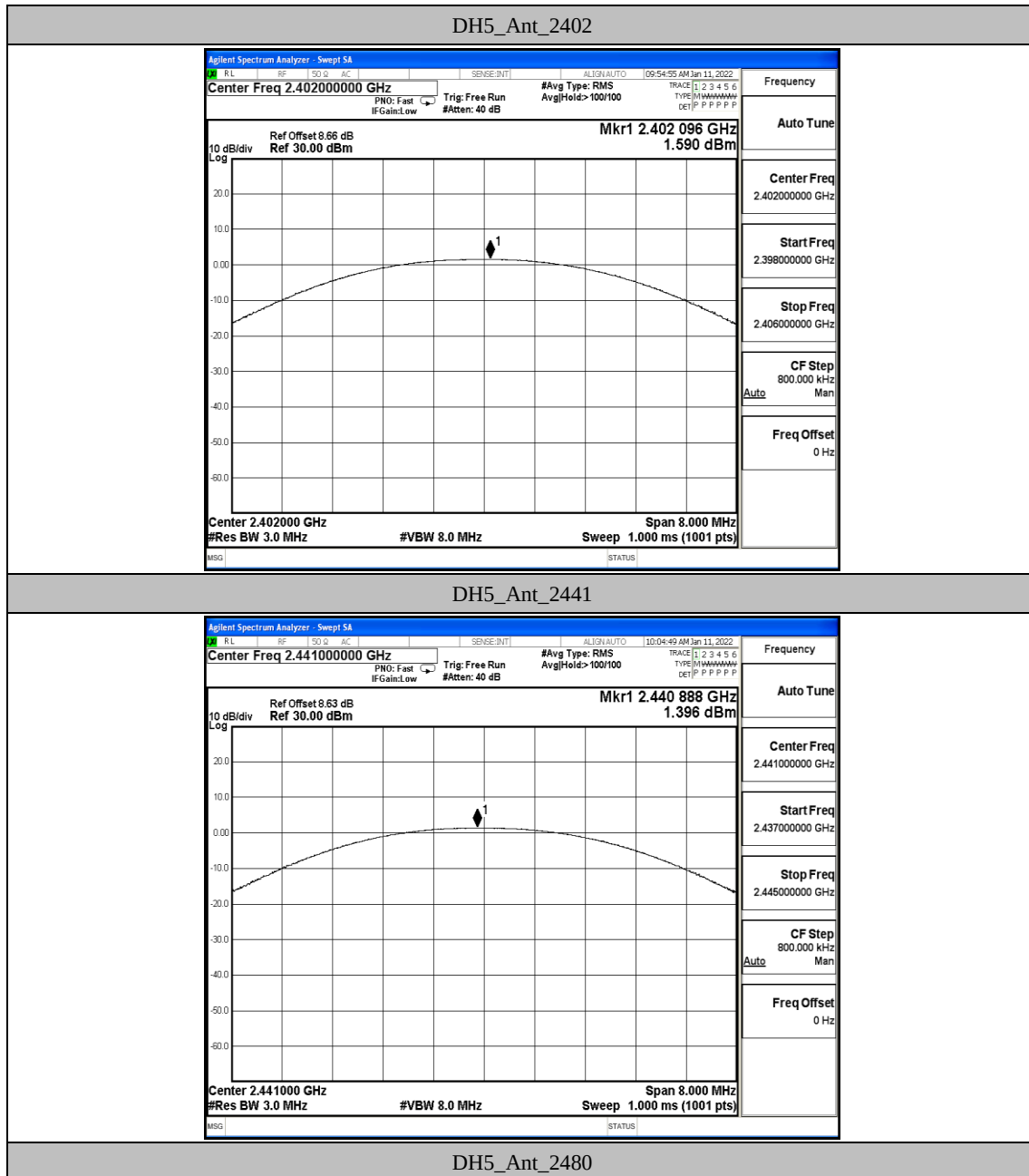
A.2 Maximum conducted output power

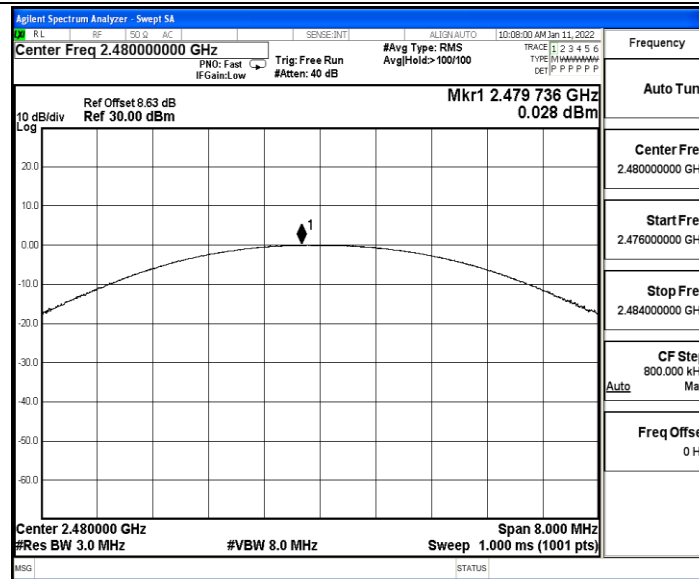
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	1.59	≤ 20.97	PASS
		2441	1.40	≤ 20.97	PASS
		2480	0.03	≤ 20.97	PASS
2DH5	Ant	2402	-1.07	≤ 20.97	PASS
		2441	0.62	≤ 20.97	PASS
		2480	-0.80	≤ 20.97	PASS
3DH5	Ant	2402	-0.92	≤ 20.97	PASS
		2441	0.74	≤ 20.97	PASS
		2480	-0.75	≤ 20.97	PASS

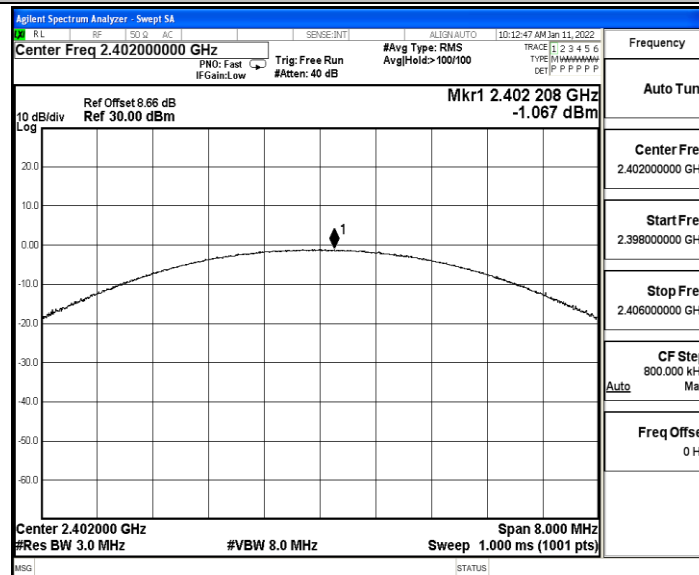


Test Graphs

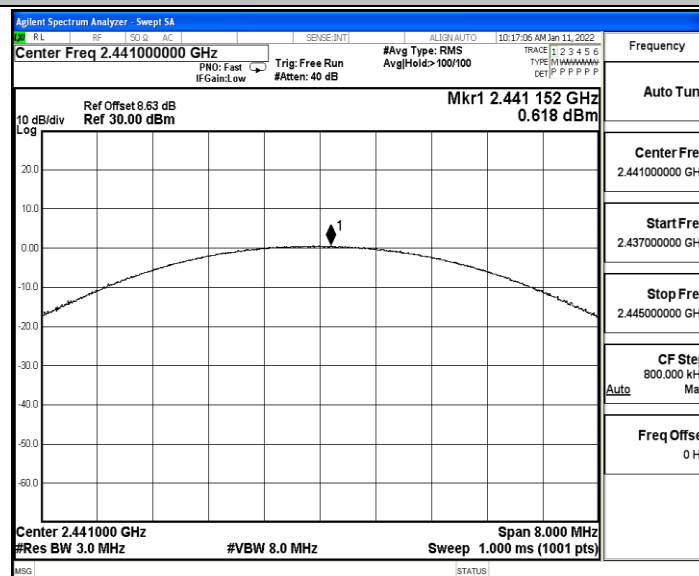




2DH5_Ant_2402

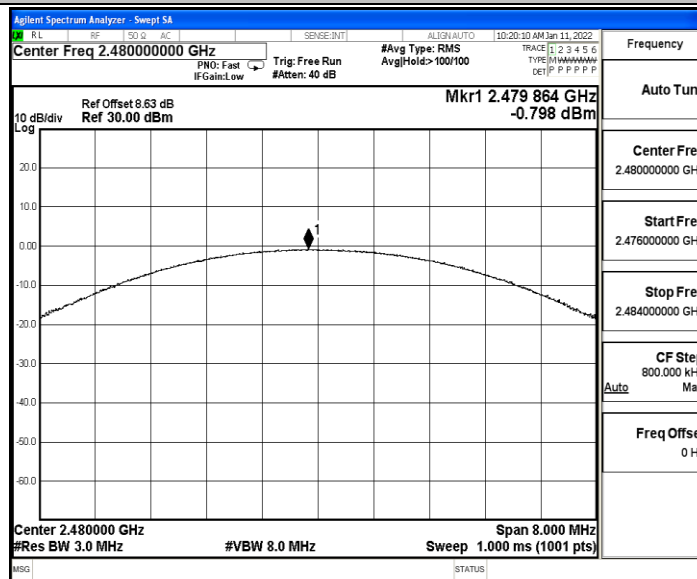


2DH5_Ant_2441

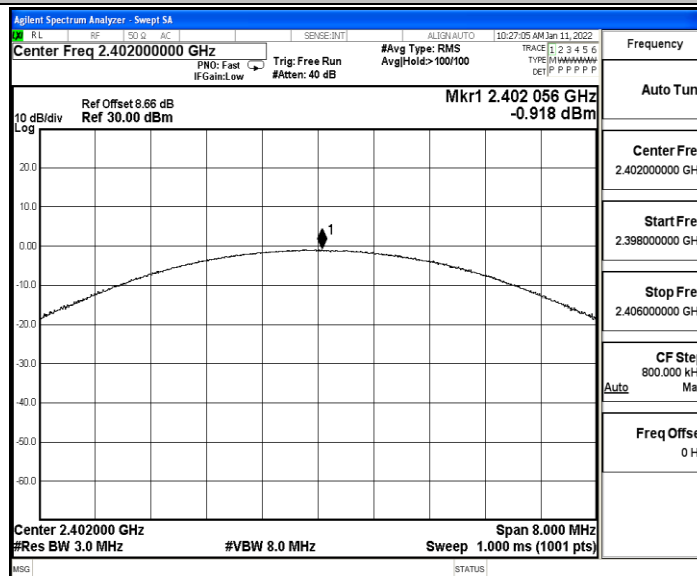




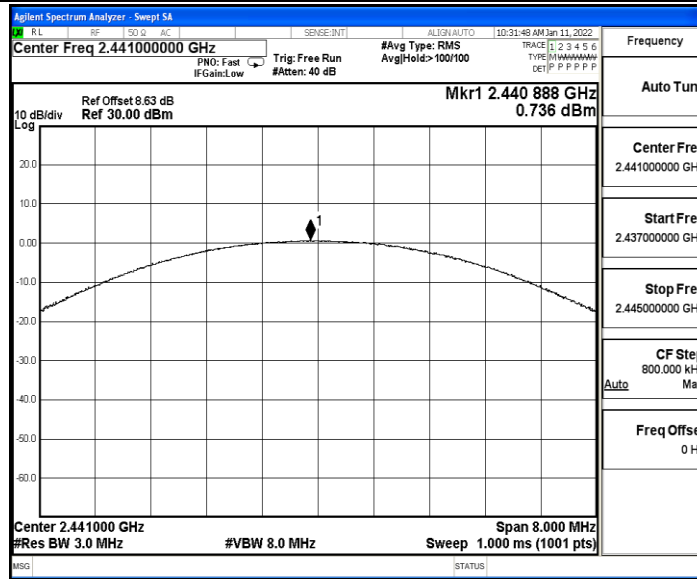
2DH5_Ant_2480



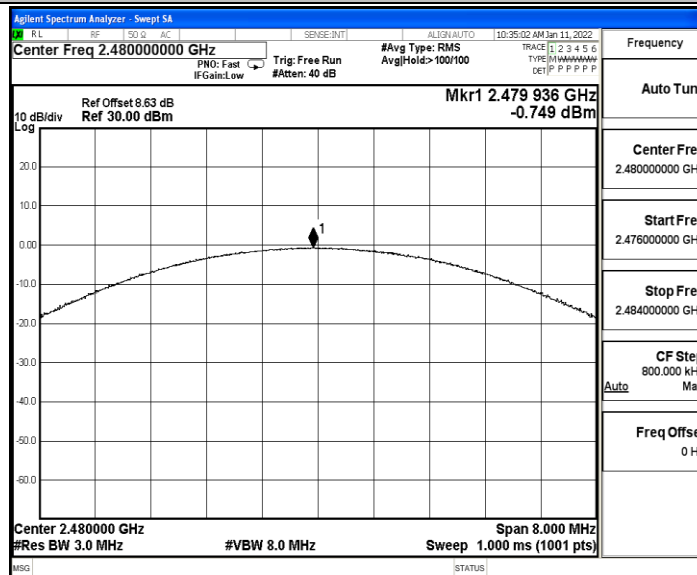
3DH5_Ant_2402



3DH5_Ant_2441



3DH5_Ant_2480



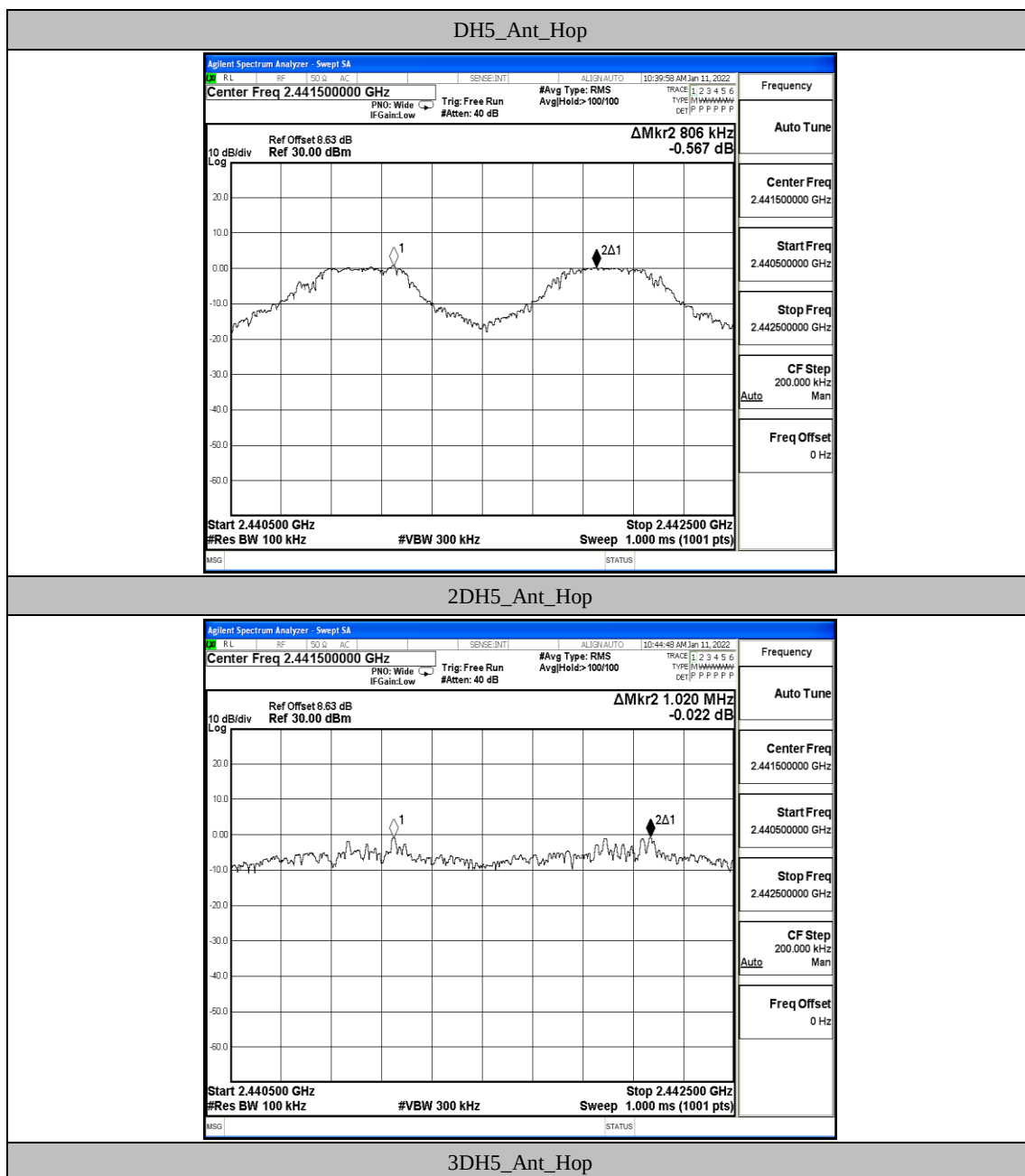


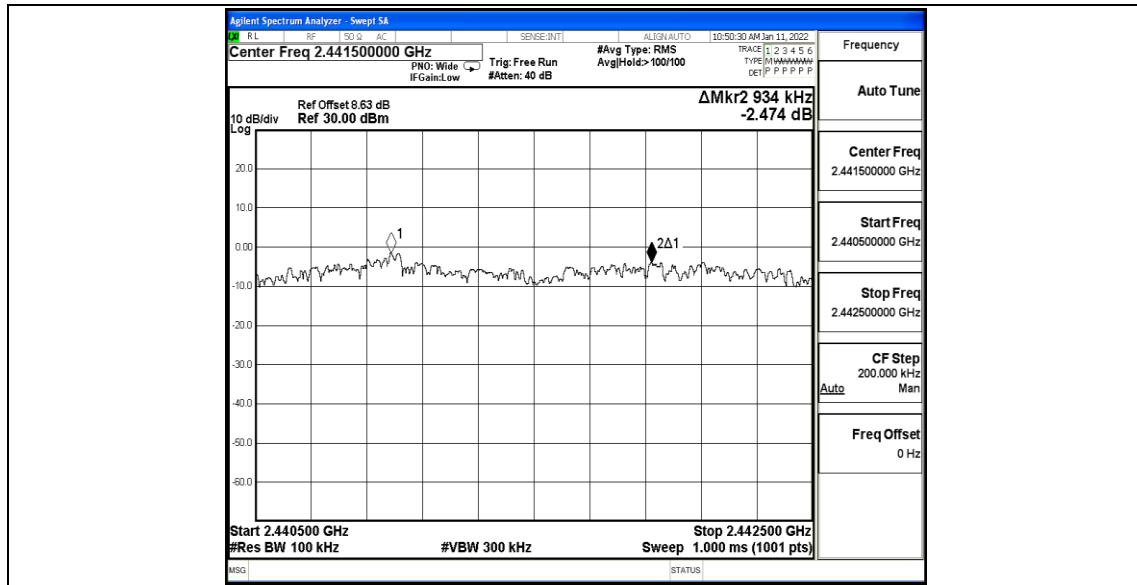
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	0.806	≥ 0.696	PASS
2DH5	Ant	Hop	1.02	≥ 0.862	PASS
3DH5	Ant	Hop	0.934	≥ 0.868	PASS

Test Graphs





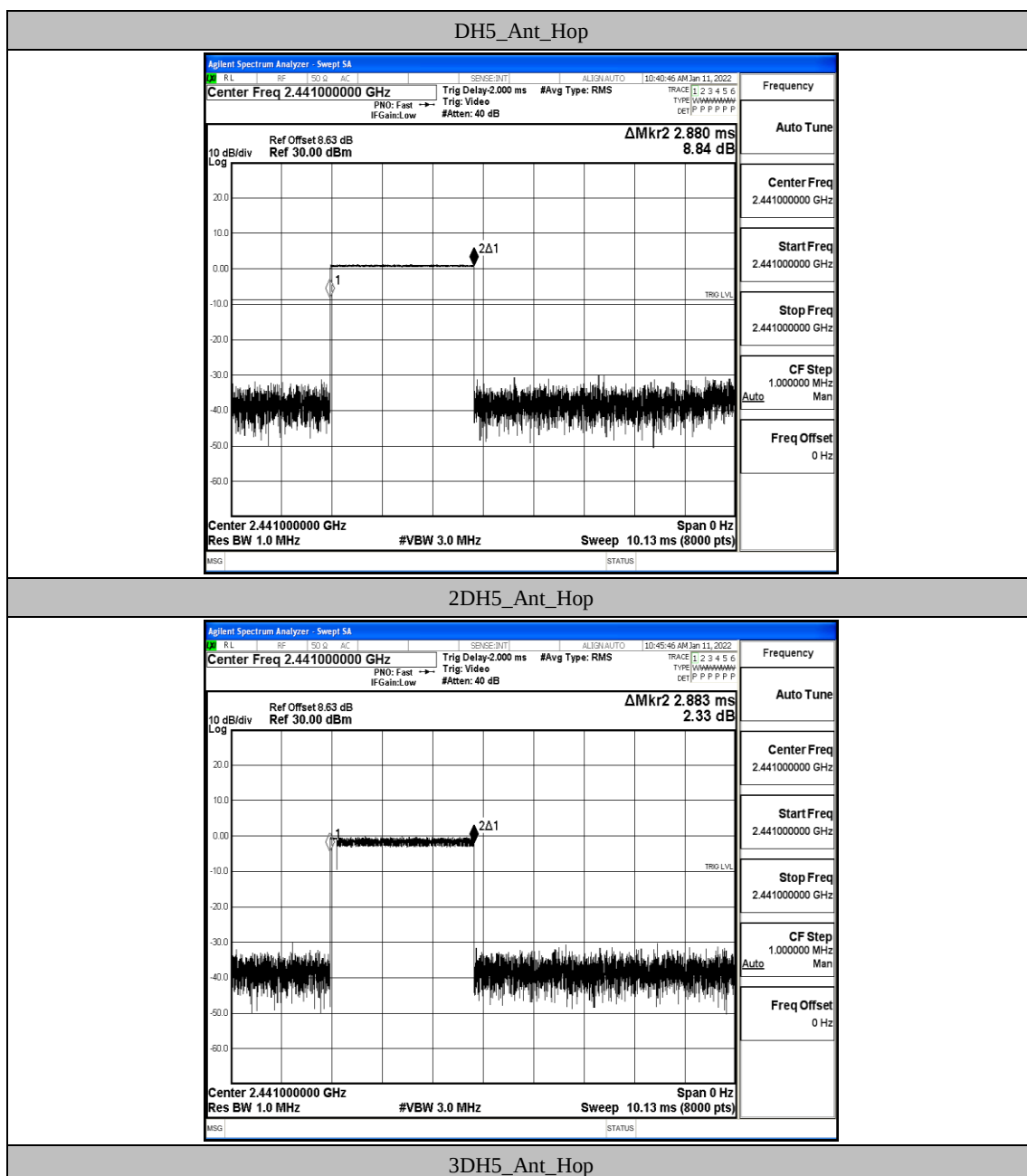


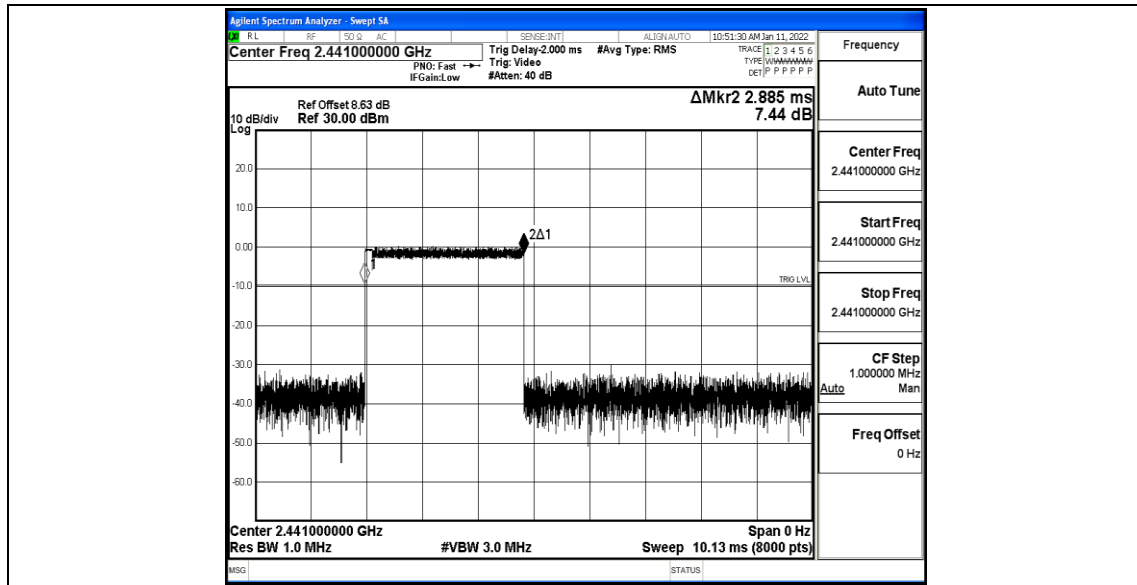
A.4 Time of occupancy

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





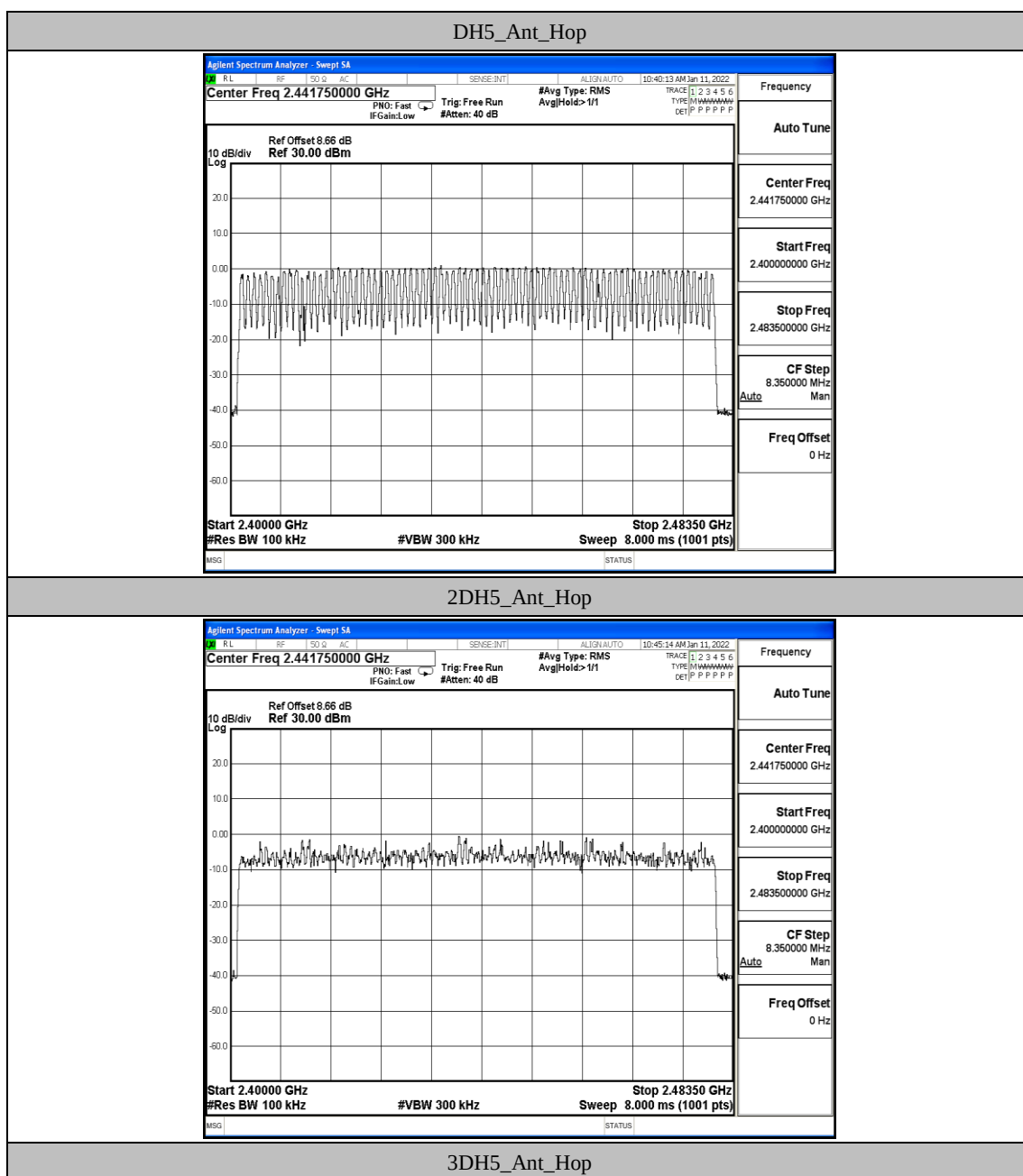


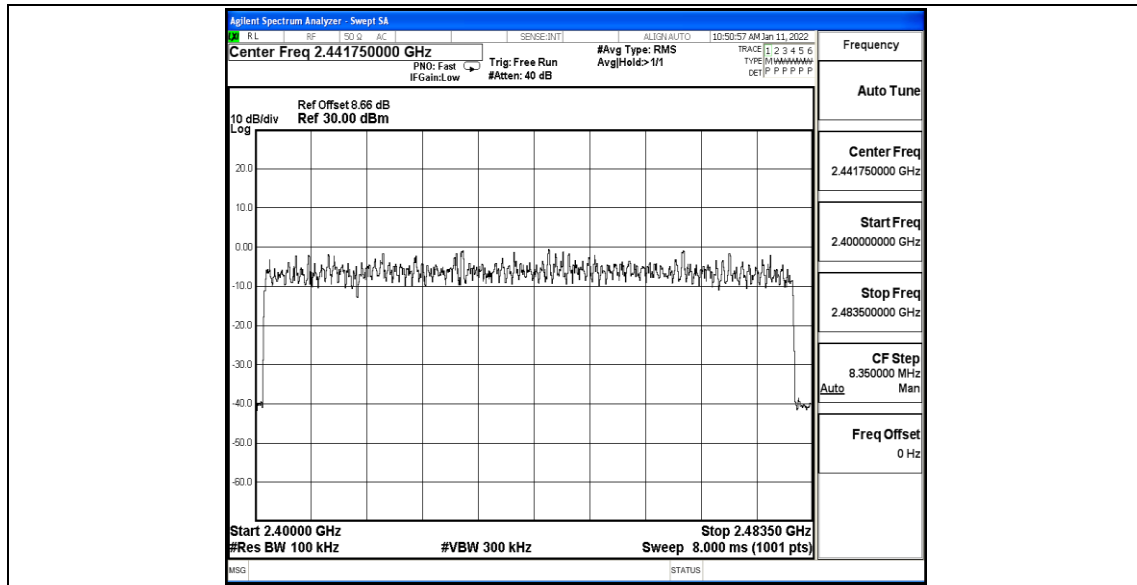
A.5 Number of hopping channels

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





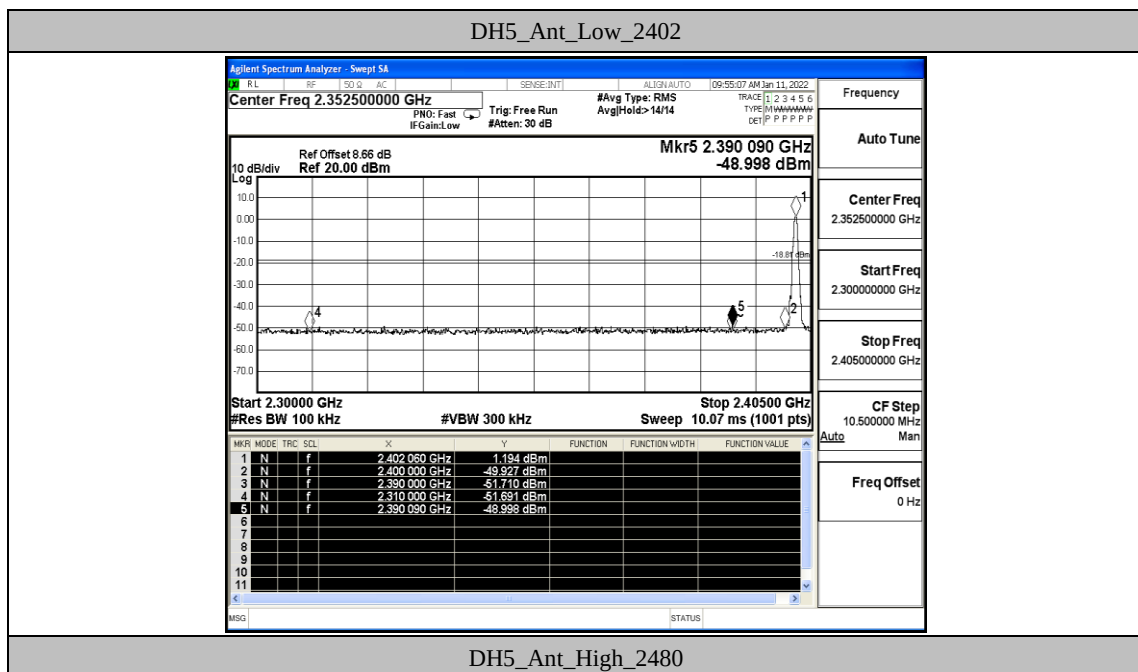


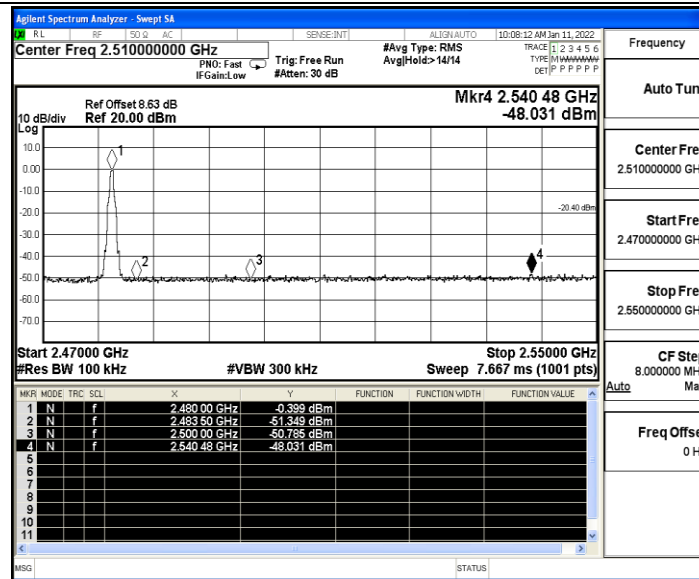
A.6 Band edge measurements

Test Result

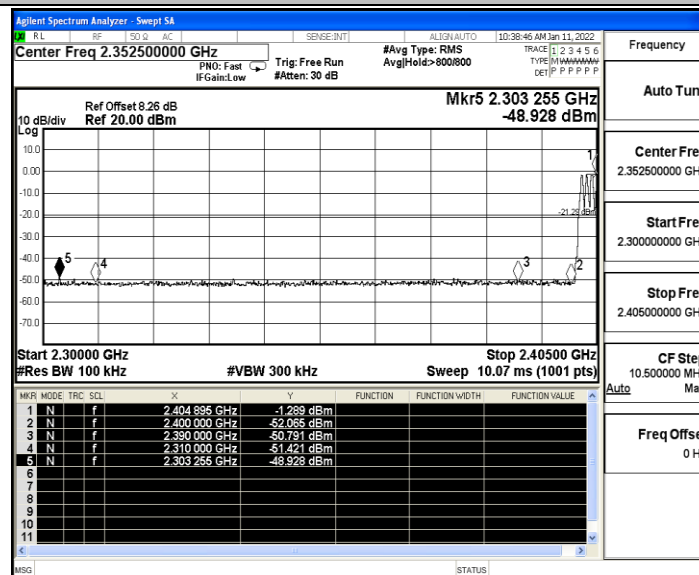
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	1.19	-49	≤ -18.81	PASS
		High	2480	-0.40	-48.03	≤ -20.4	PASS
		Low	Hop_2402	-1.29	-48.93	≤ -21.29	PASS
		High	Hop_2480	-0.17	-47.34	≤ -20.17	PASS
2DH5	Ant	Low	2402	-4.23	-49.05	≤ -24.23	PASS
		High	2480	-2.12	-47.83	≤ -22.12	PASS
		Low	Hop_2402	-2.81	-49.83	≤ -22.81	PASS
		High	Hop_2480	-4.39	-47.96	≤ -24.39	PASS
3DH5	Ant	Low	2402	-2.31	-49.21	≤ -22.31	PASS
		High	2480	-2.42	-47.92	≤ -22.42	PASS
		Low	Hop_2402	-4.12	-49.35	≤ -24.12	PASS
		High	Hop_2480	-3.84	-47.99	≤ -23.84	PASS

Test Graphs

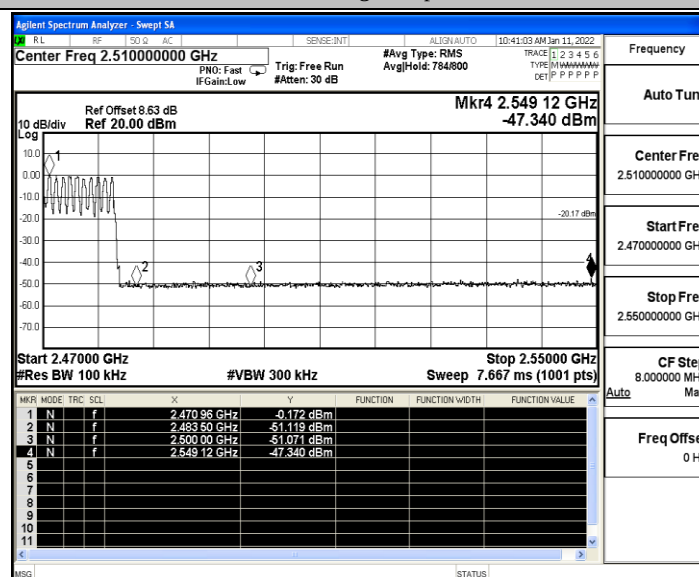




DH5_Ant_Low_Hop_2402

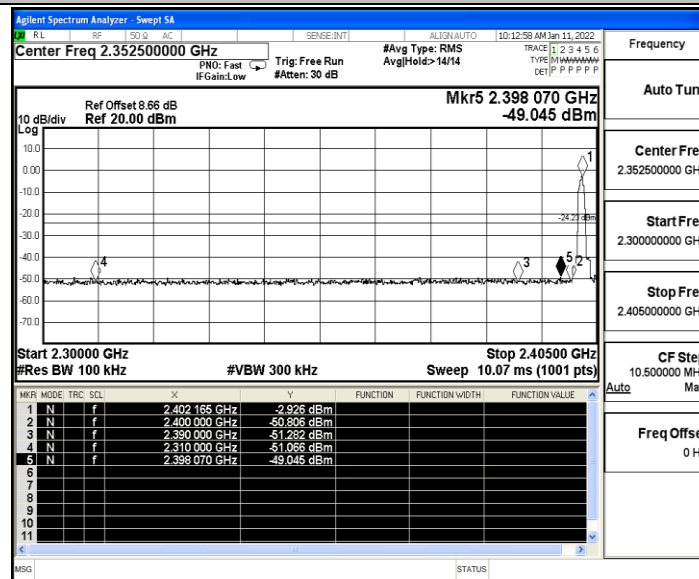


DH5_Ant_High_Hop_2480

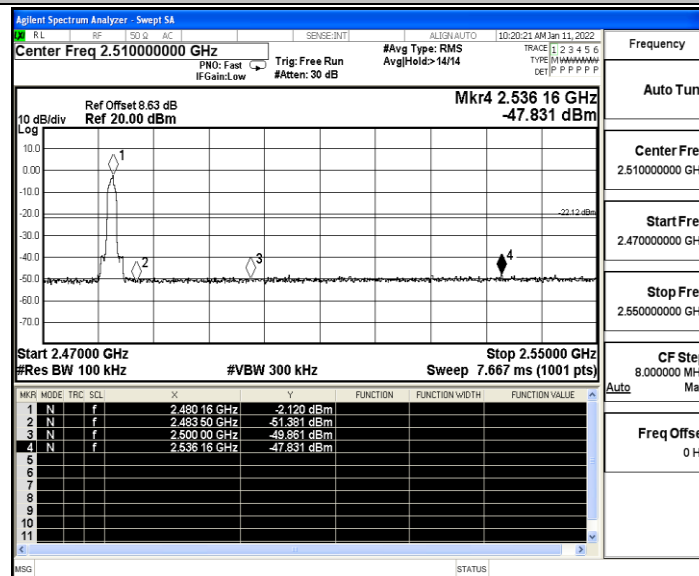




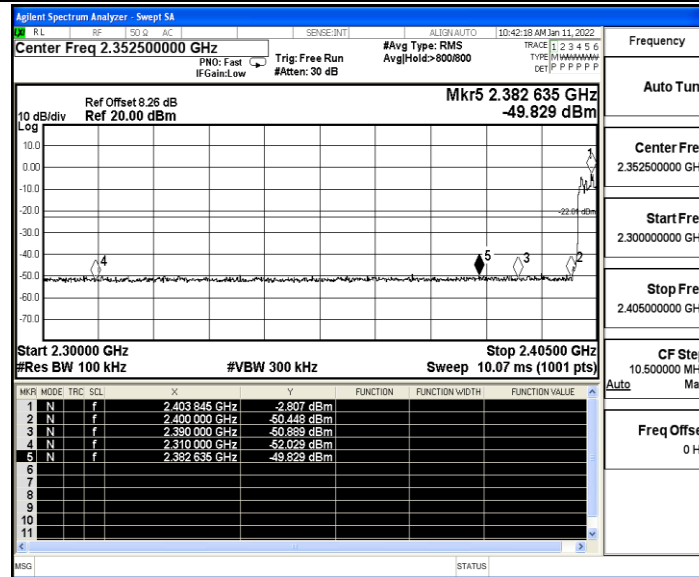
2DH5_Ant_Low_2402



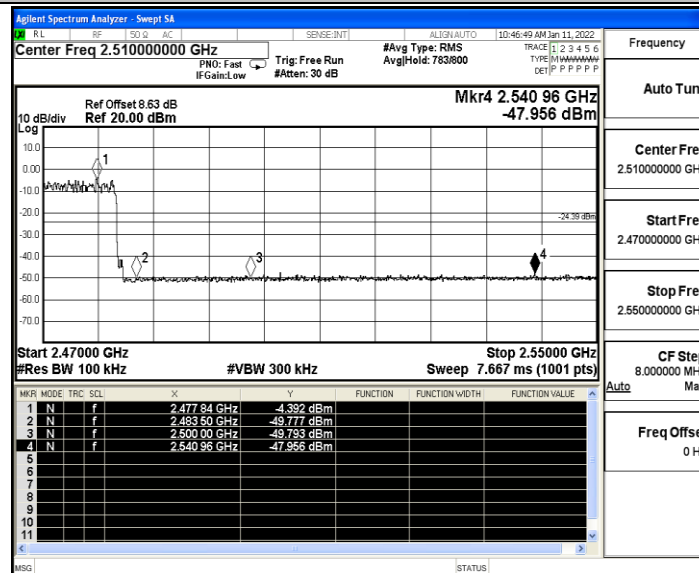
2DH5_Ant_High_2480



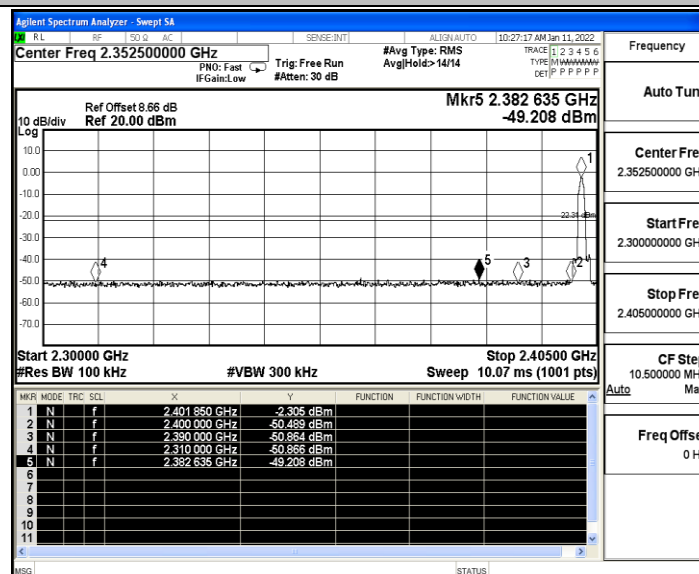
2DH5_Ant_Low_Hop_2402



2DH5_Ant_High_Hop_2480

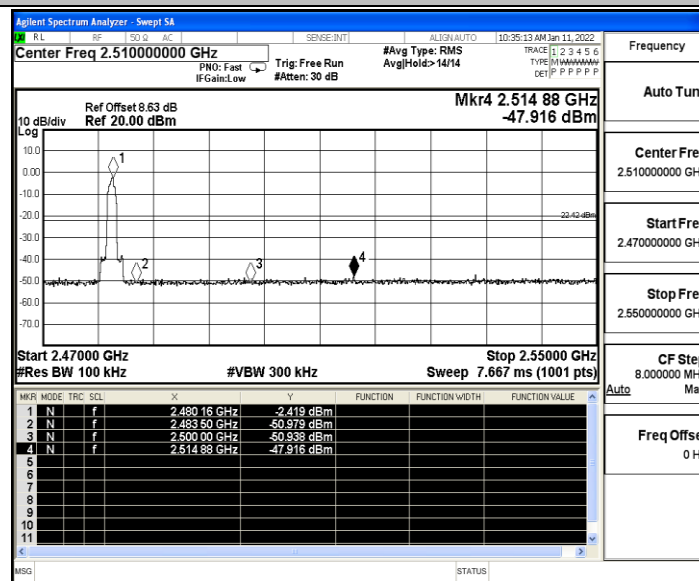


3DH5_Ant_Low_2402

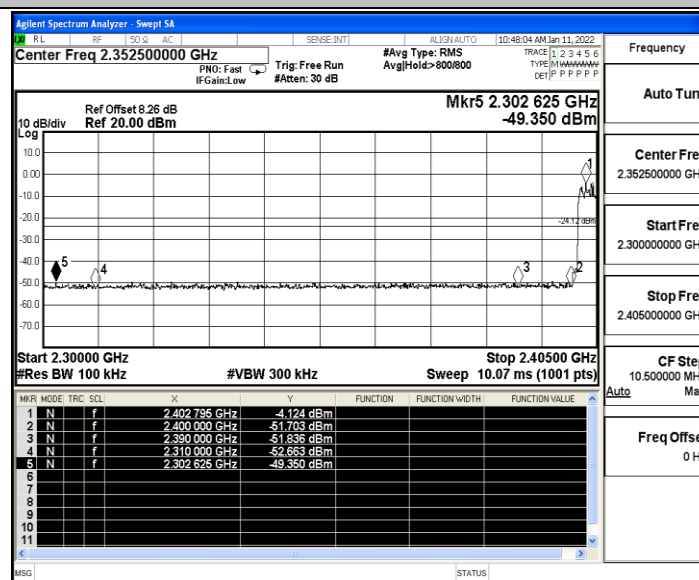




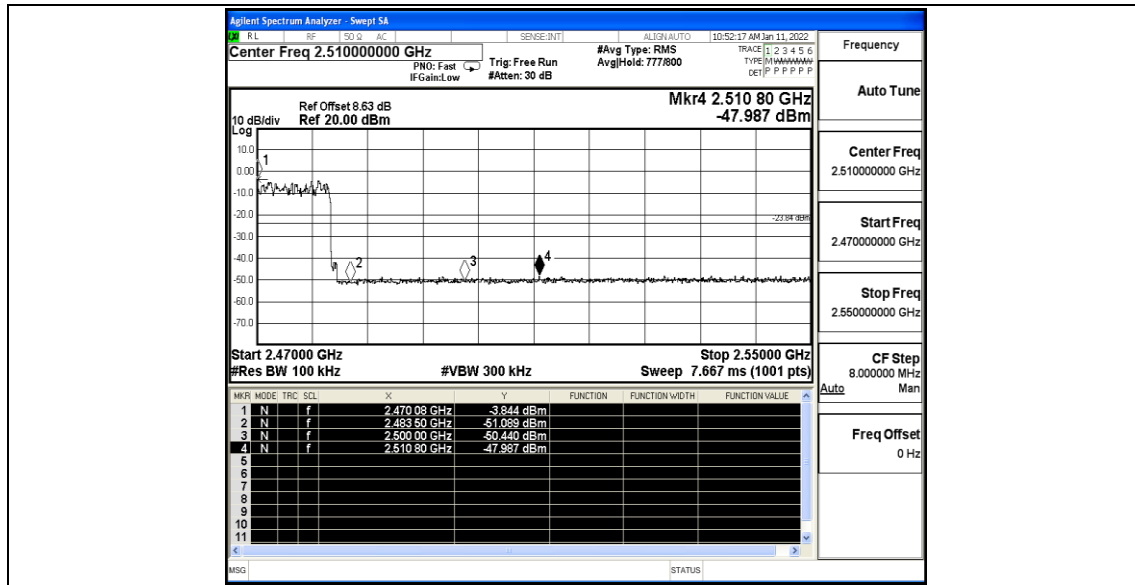
3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402



3DH5_Ant_High_Hop_2480





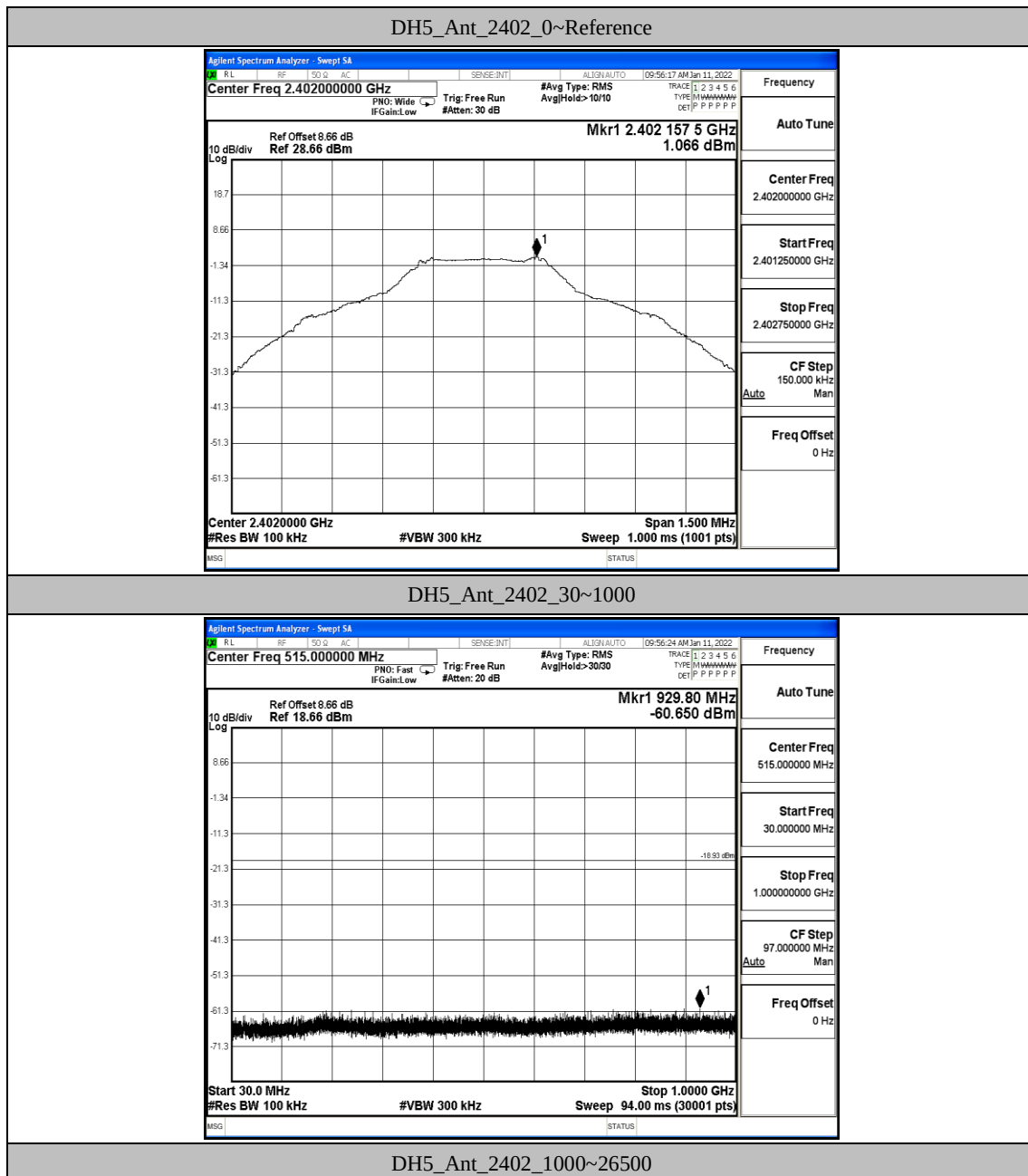
A.7 Conducted Spurious Emission

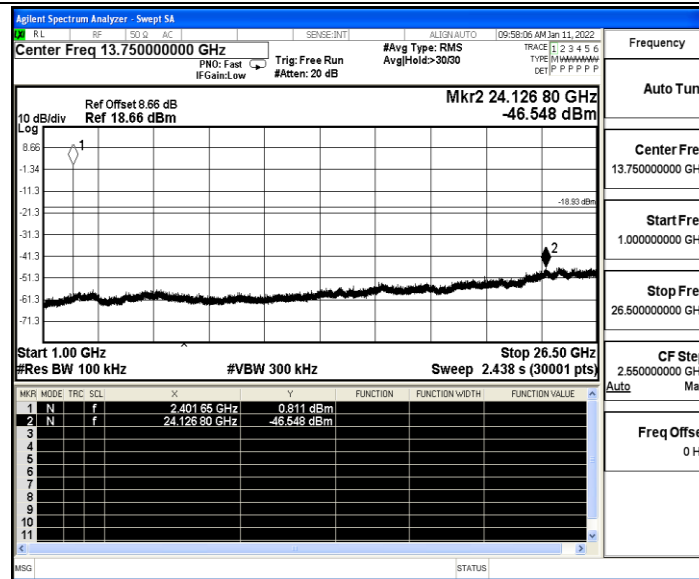
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-60.65	≤-18.93	PASS
			1000~26500	1.07	-46.55	≤-18.93	PASS
		2441	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-60.8	≤-19.23	PASS
			1000~26500	0.77	-46.26	≤-19.23	PASS
		2480	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-60.44	≤-20.72	PASS
			1000~26500	-0.72	-45.25	≤-20.72	PASS
2DH5	Ant	2402	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-60.09	≤-22.38	PASS
			1000~26500	-2.38	-46.22	≤-22.38	PASS
		2441	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-60.91	≤-20.8	PASS
			1000~26500	-0.80	-46.09	≤-20.8	PASS
		2480	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-60.06	≤-22.09	PASS
			1000~26500	-2.09	-46.57	≤-22.09	PASS
3DH5	Ant	2402	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-50.42	≤-22.28	PASS
			1000~26500	-2.28	-45.66	≤-22.28	PASS
		2441	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-60.94	≤-20.74	PASS
			1000~26500	-0.74	-46.43	≤-20.74	PASS
		2480	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-60.98	≤-22.03	PASS
			1000~26500	-2.03	-45.75	≤-22.03	PASS

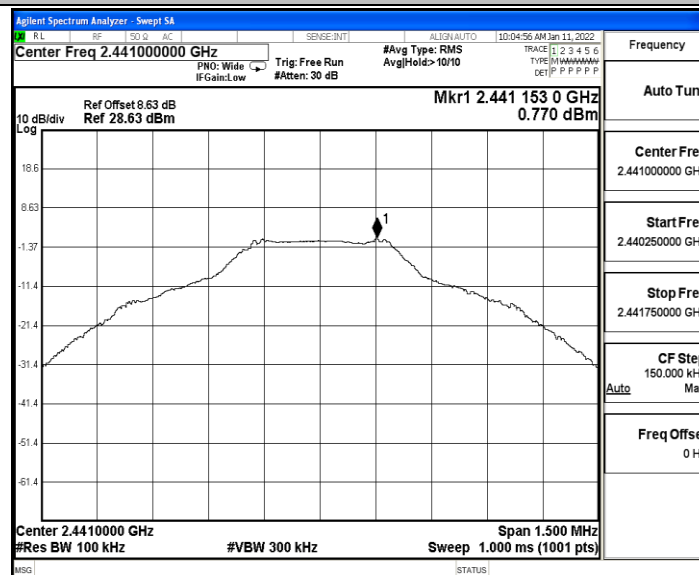


Test Graphs

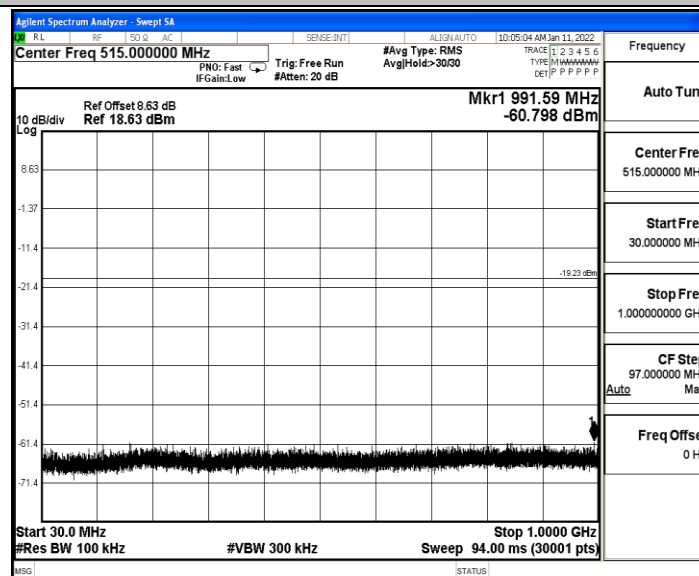




DH5_Ant_2441_0~Reference

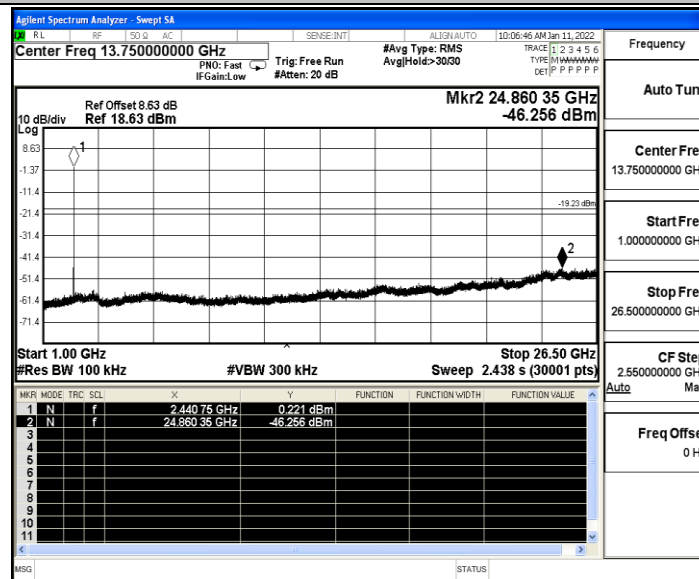


DH5_Ant_2441_30~1000

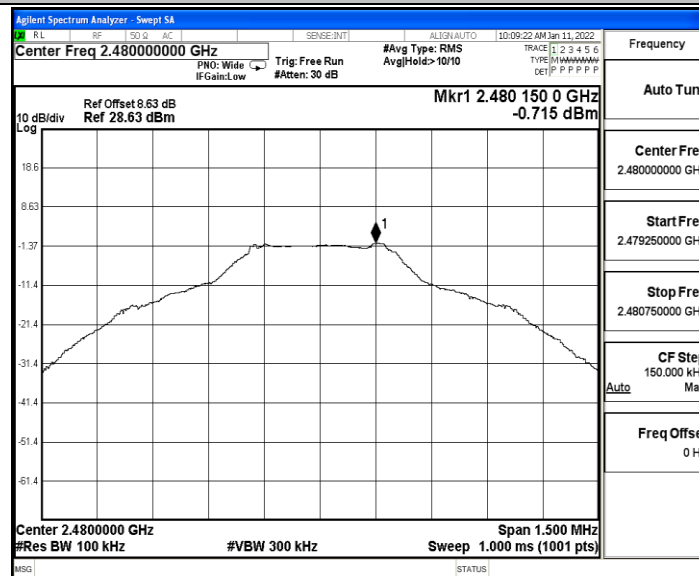




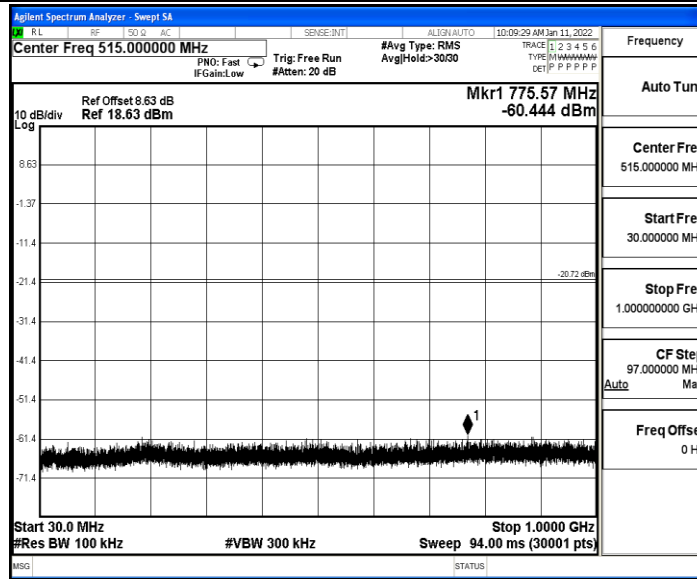
DH5_Ant_2441_1000~26500



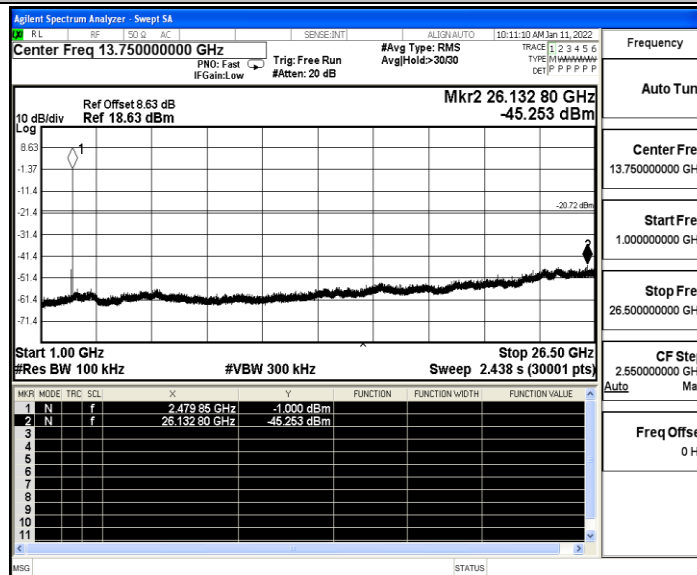
DH5_Ant_2480_0~Reference



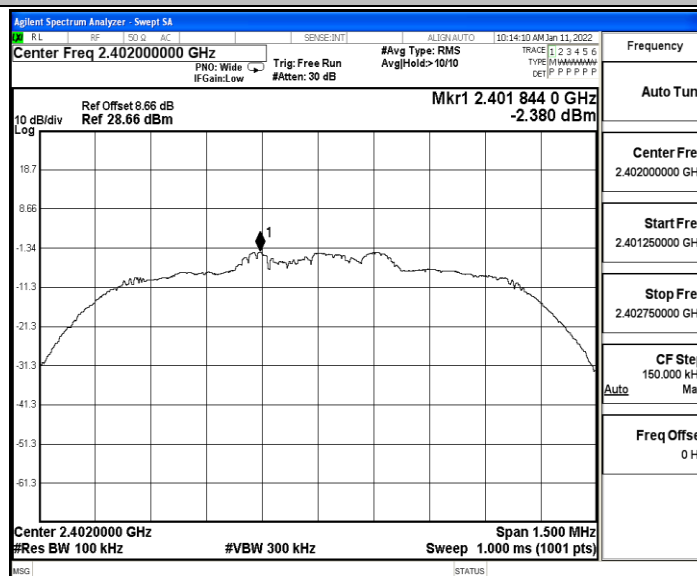
DH5_Ant_2480_30~1000



DH5_Ant_2480_1000~26500

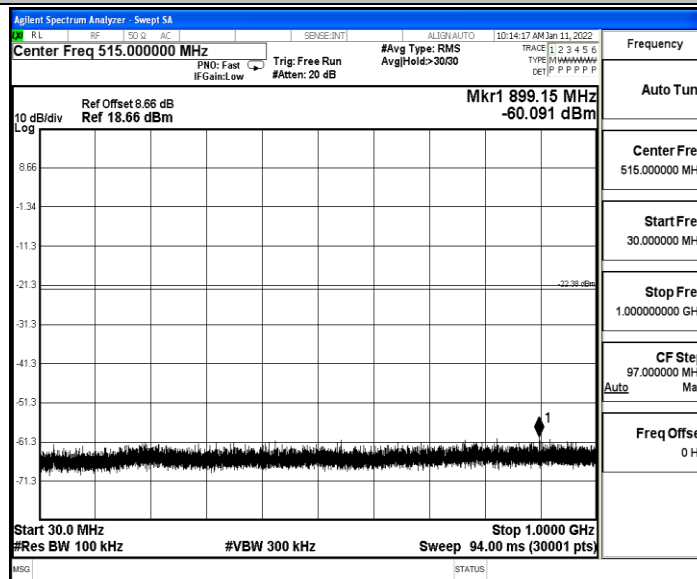


2DH5_Ant_2402_0~Reference

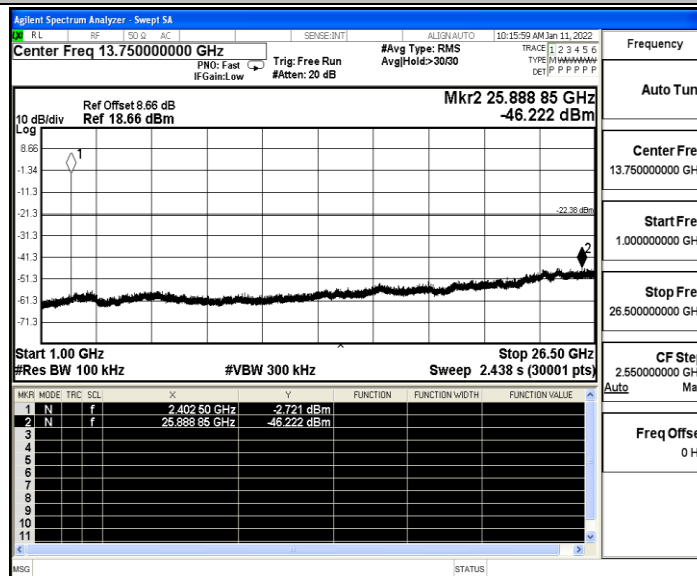




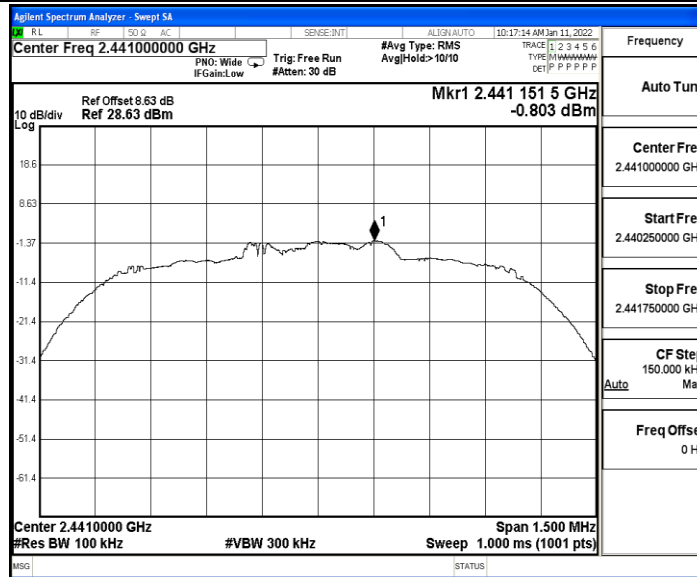
2DH5_Ant_2402_30~1000



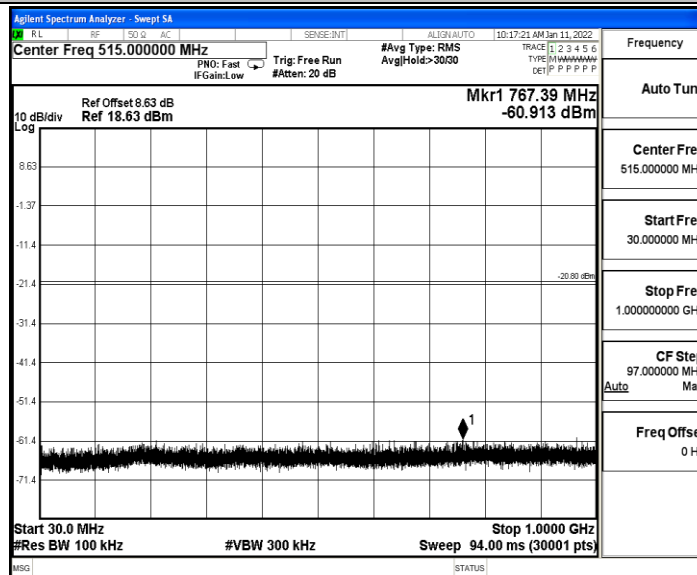
2DH5_Ant_2402_1000~26500



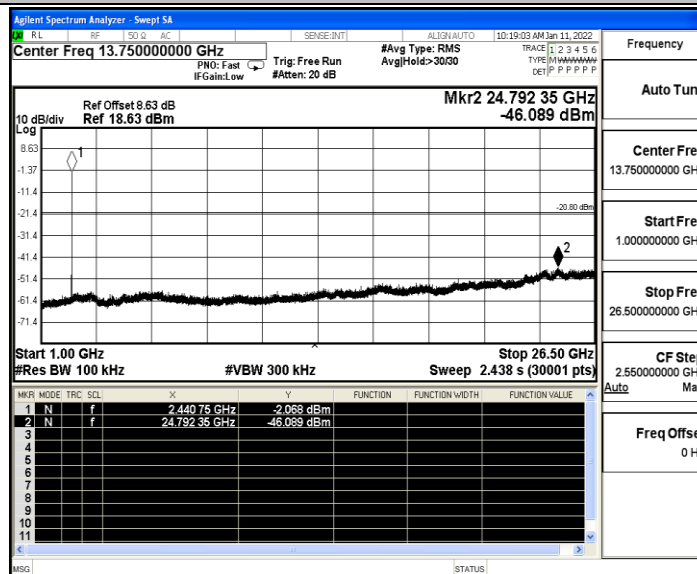
2DH5_Ant_2441_0~Reference



2DH5_Ant_2441_30~1000

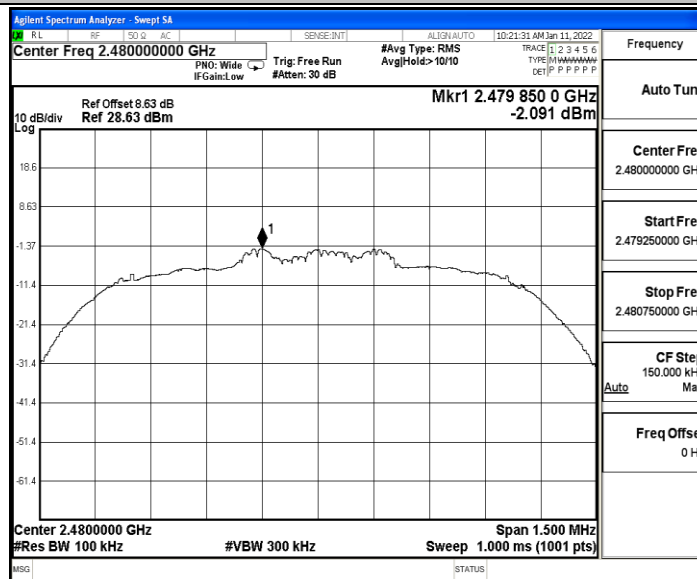


2DH5_Ant_2441_1000~26500

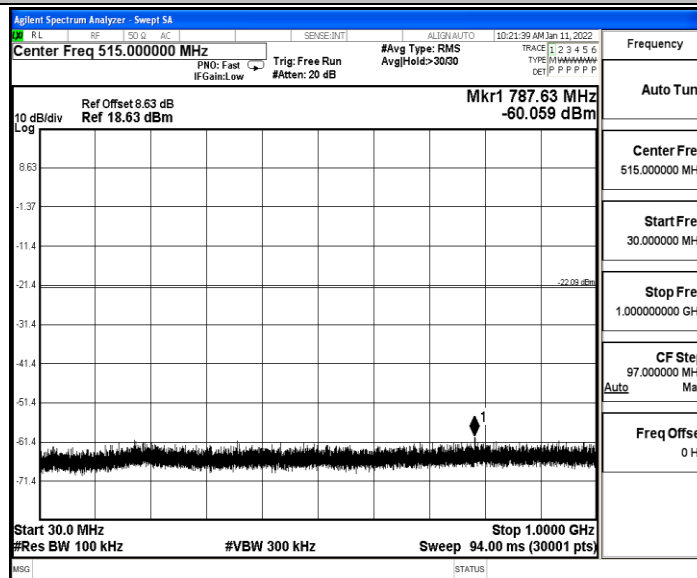




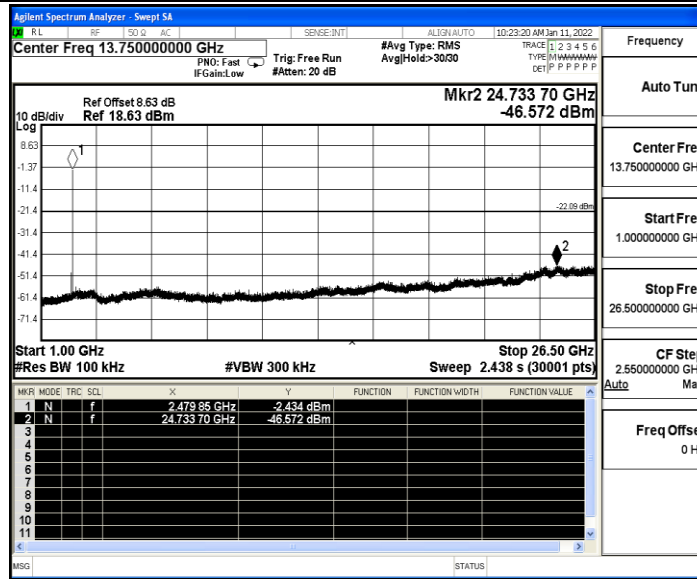
2DH5_Ant_2480_0~Reference



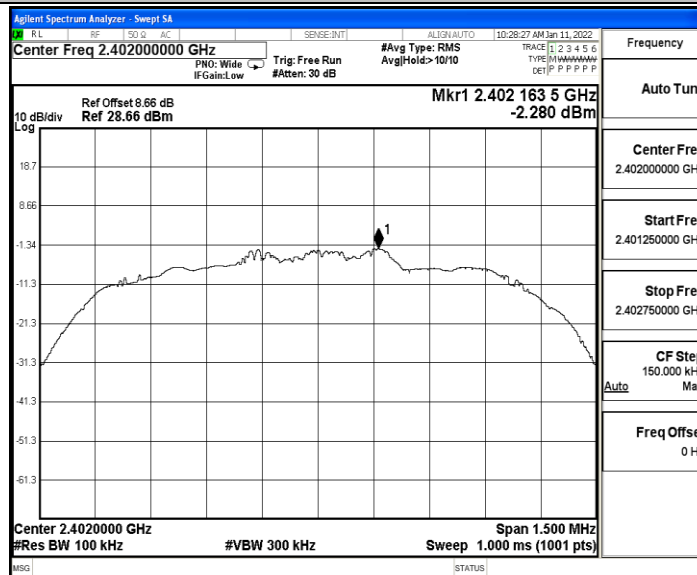
2DH5_Ant_2480_30~1000



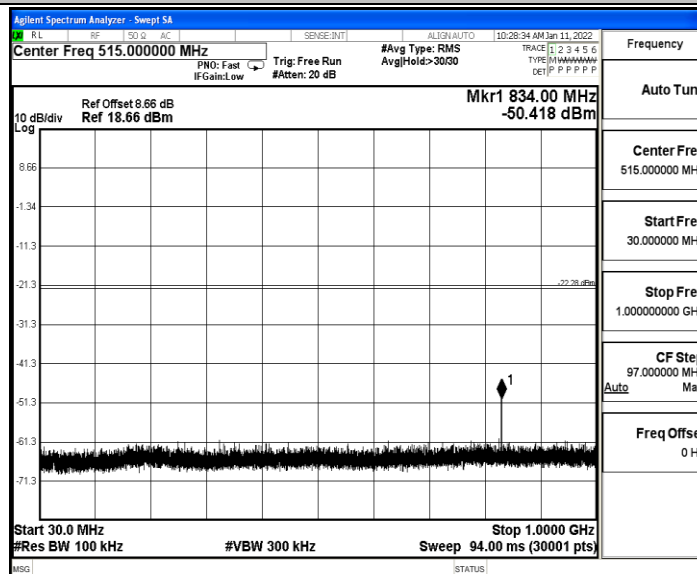
2DH5_Ant_2480_1000~26500



3DH5_Ant_2402_0~Reference

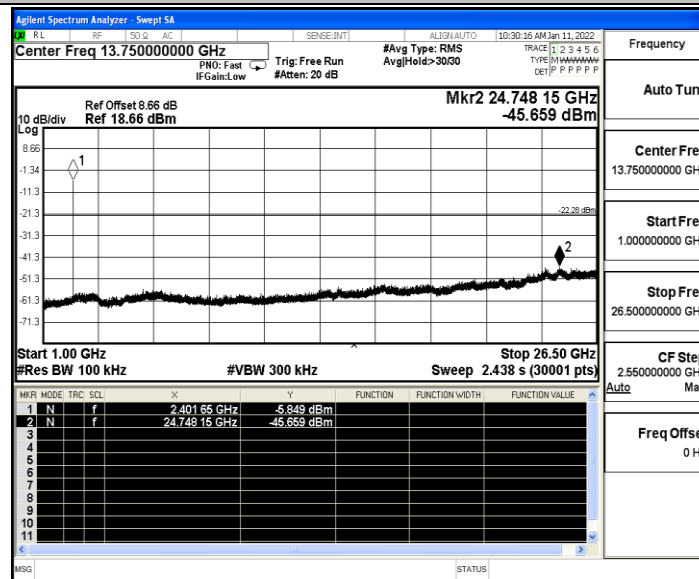


3DH5_Ant_2402_30~1000

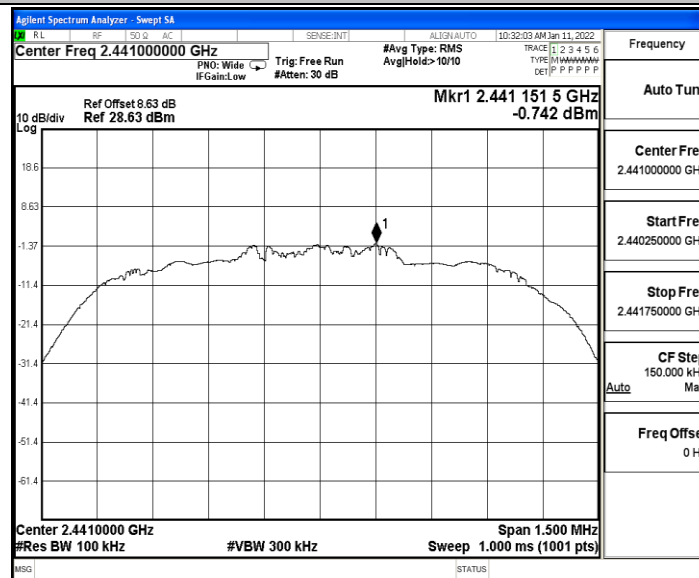




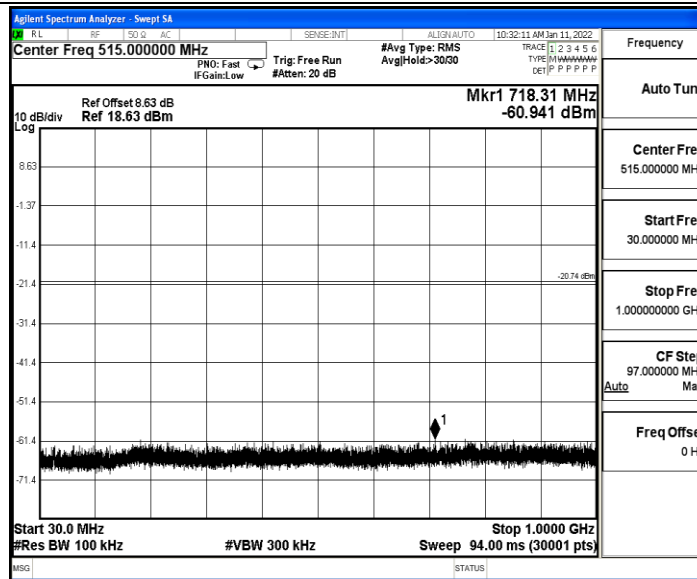
3DH5_Ant_2402_1000~26500



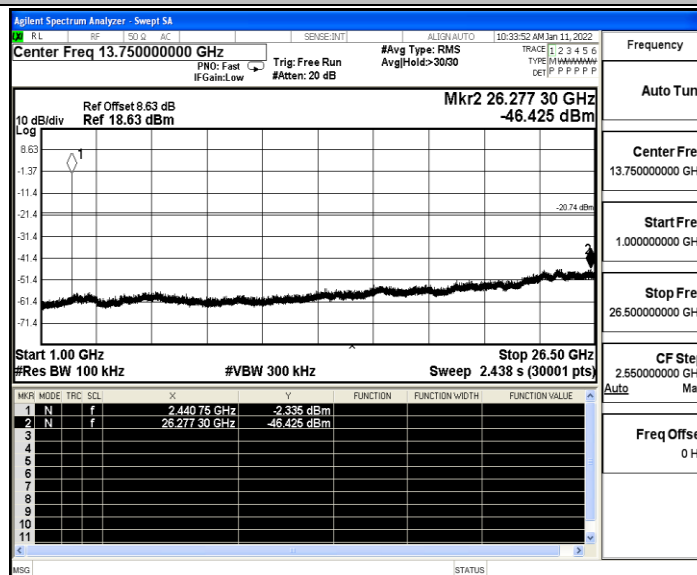
3DH5_Ant_2441_0~Reference



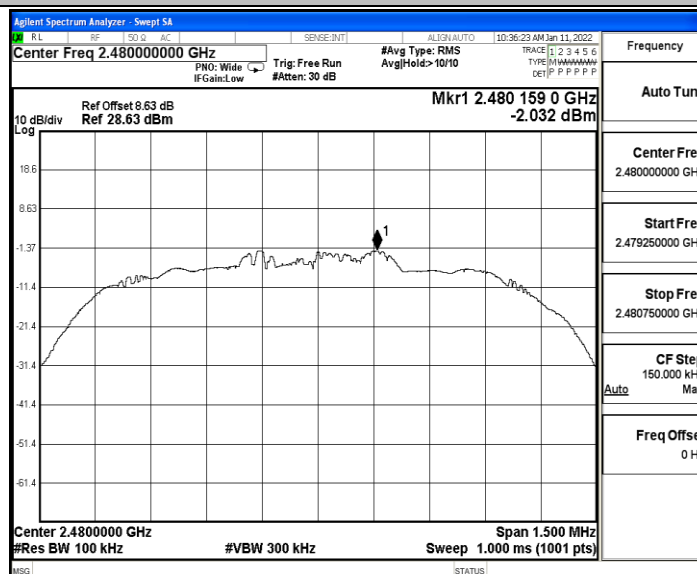
3DH5_Ant_2441_30~1000



3DH5_Ant_2441_1000~26500

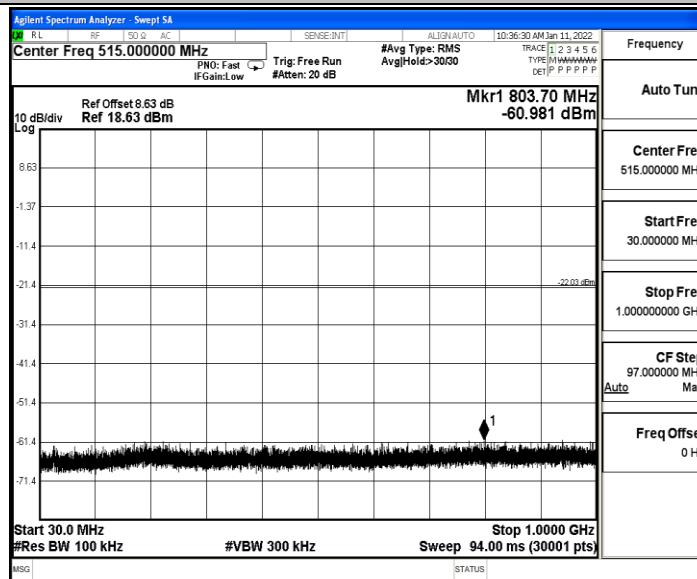


3DH5_Ant_2480_0~Reference

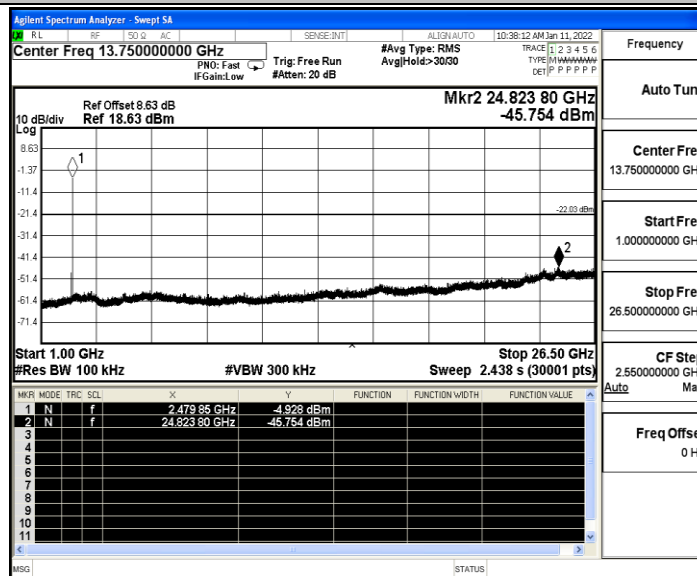




3DH5_Ant_2480_30~1000



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	-48.49	≤-41.20	46.71	≤54	PASS
				AV	2381.690	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2390.000	-48.04	≤-41.20	47.16	≤54	PASS
				Peak	2310.000	-39.2	≤-21.20	56.00	≤74	PASS
				Peak	2371.505	-36.72	≤-21.20	58.48	≤74	PASS
				Peak	2390.000	-38.55	≤-21.20	56.65	≤74	PASS
		High	2480	AV	2483.500	-47.41	≤-41.20	47.79	≤54	PASS
				AV	2499.840	-47.26	≤-41.20	47.94	≤54	PASS
				AV	2500.000	-47.4	≤-41.20	47.80	≤54	PASS
				Peak	2483.500	-37.89	≤-21.20	57.31	≤74	PASS
				Peak	2489.040	-36.18	≤-21.20	59.02	≤74	PASS
				Peak	2500.000	-38.21	≤-21.20	56.99	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2388.305	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2390.000	-47.97	≤-41.20	47.23	≤54	PASS
				Peak	2310.000	-38.44	≤-21.20	56.76	≤74	PASS
				Peak	2385.365	-36.3	≤-21.20	58.90	≤74	PASS
				Peak	2390.000	-38.43	≤-21.20	56.77	≤74	PASS
		High	2480	AV	2483.500	-47.33	≤-41.20	47.87	≤54	PASS
				AV	2499.760	-47.19	≤-41.20	48.01	≤54	PASS
				AV	2500.000	-47.27	≤-41.20	47.93	≤54	PASS
				Peak	2483.500	-37.88	≤-21.20	57.32	≤74	PASS
				Peak	2486.160	-36.26	≤-21.20	58.94	≤74	PASS
				Peak	2500.000	-38.62	≤-21.20	56.58	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-48.36	≤-41.20	46.84	≤54	PASS
				AV	2381.585	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2390.000	-47.98	≤-41.20	47.22	≤54	PASS
				Peak	2310.000	-39.18	≤-21.20	56.02	≤74	PASS
				Peak	2380.010	-36.54	≤-21.20	58.66	≤74	PASS
				Peak	2390.000	-38.53	≤-21.20	56.67	≤74	PASS
		High	2480	AV	2483.500	-47.31	≤-41.20	47.89	≤54	PASS
				AV	2498.320	-47.24	≤-41.20	47.96	≤54	PASS
				AV	2500.000	-47.32	≤-41.20	47.88	≤54	PASS
				Peak	2483.500	-37.84	≤-21.20	57.36	≤74	PASS
				Peak	2499.040	-36.63	≤-21.20	58.57	≤74	PASS
				Peak	2500.000	-37.87	≤-21.20	57.33	≤74	PASS



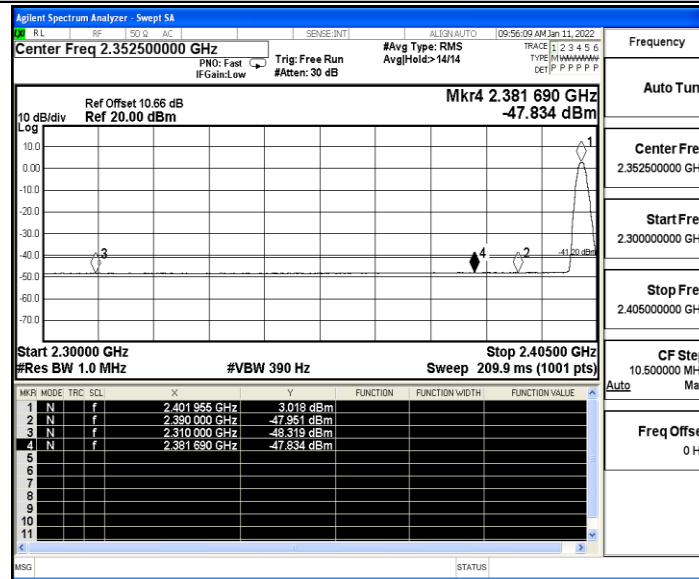
Note:

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.

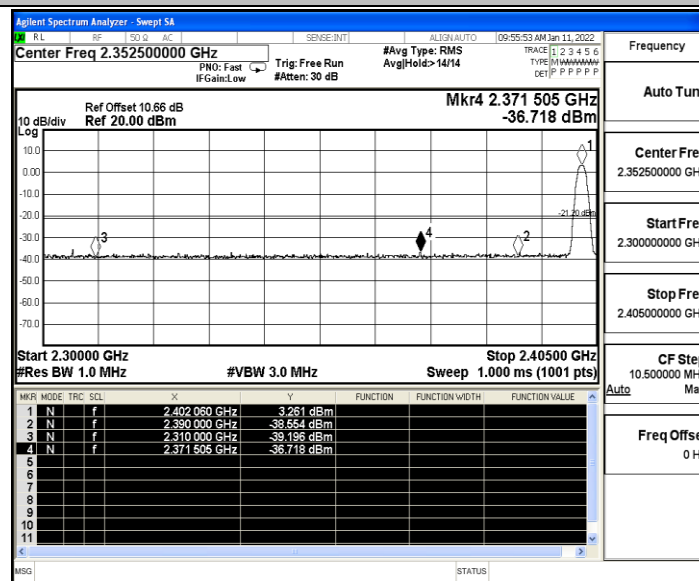


Test Graphs

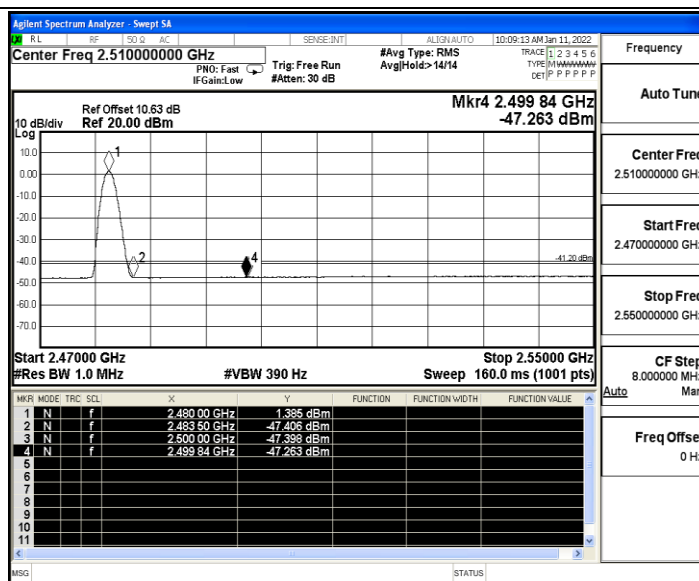
DH5_Ant_Low_2402_AV



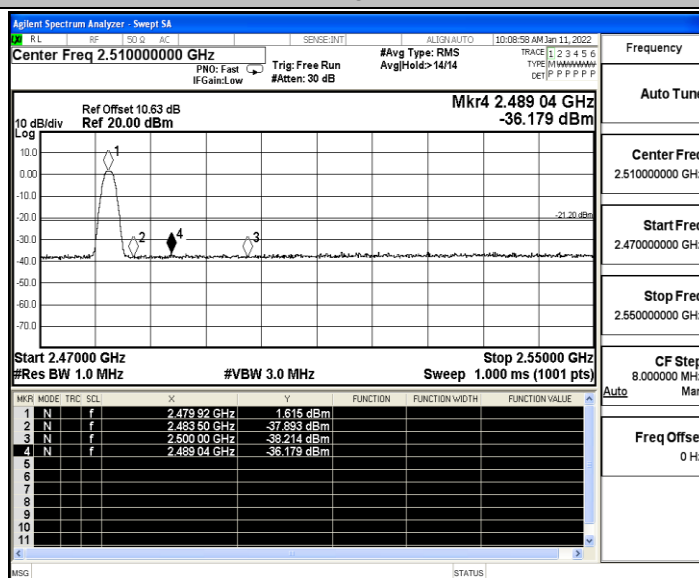
DH5_Ant_Low_2402_Peak



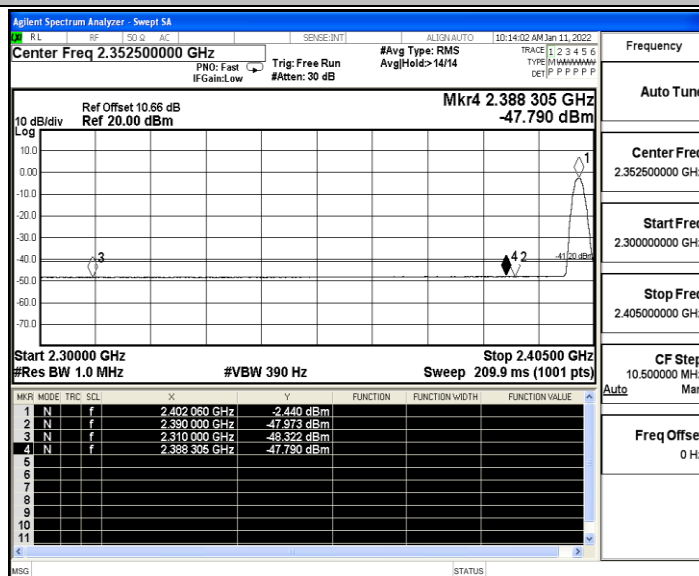
DH5_Ant_High_2480_AV



DH5_Ant_High_2480_Peak

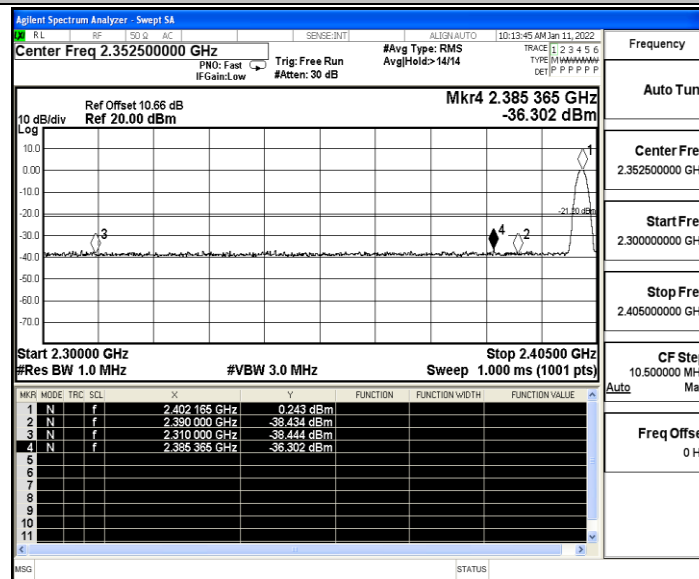


2DH5_Ant_Low_2402_AV

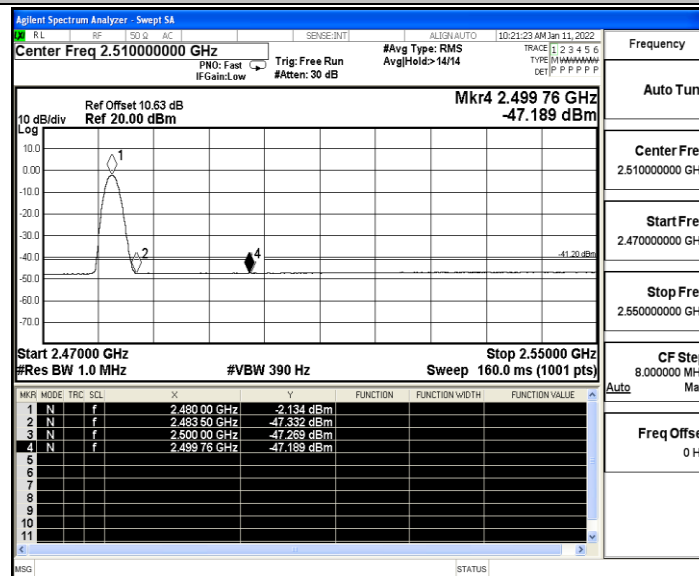




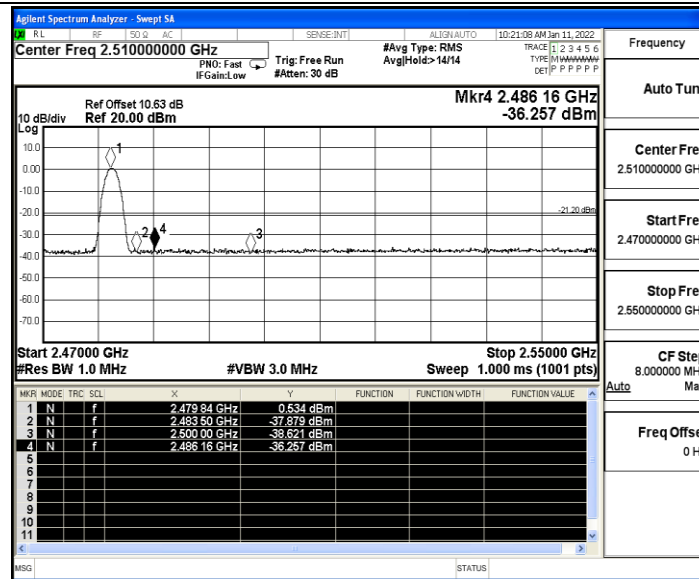
2DH5_Ant_Low_2402_Peak



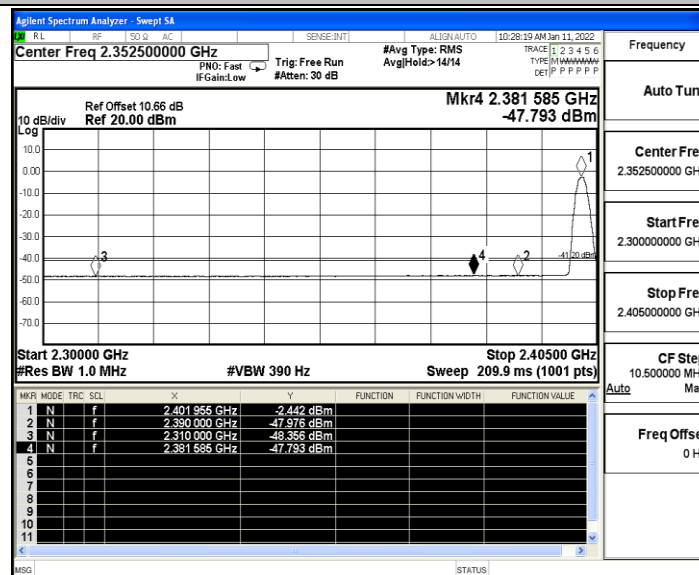
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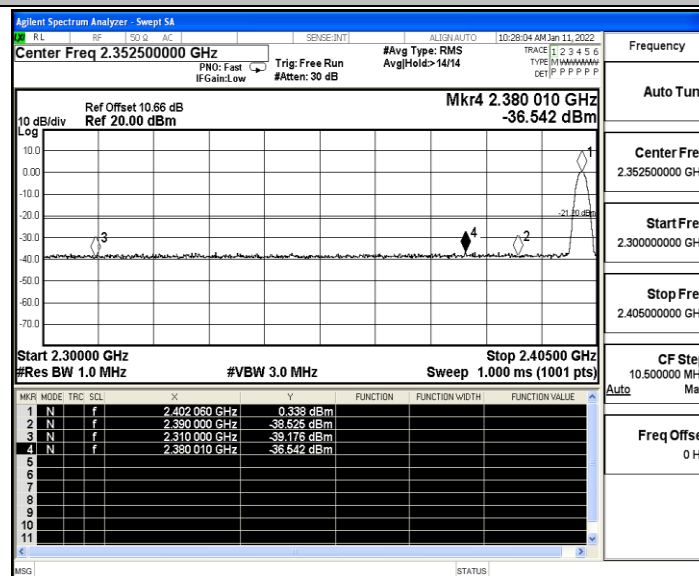
2DH5_Ant_High_2480_Peak



3DH5_Ant_Low_2402_AV

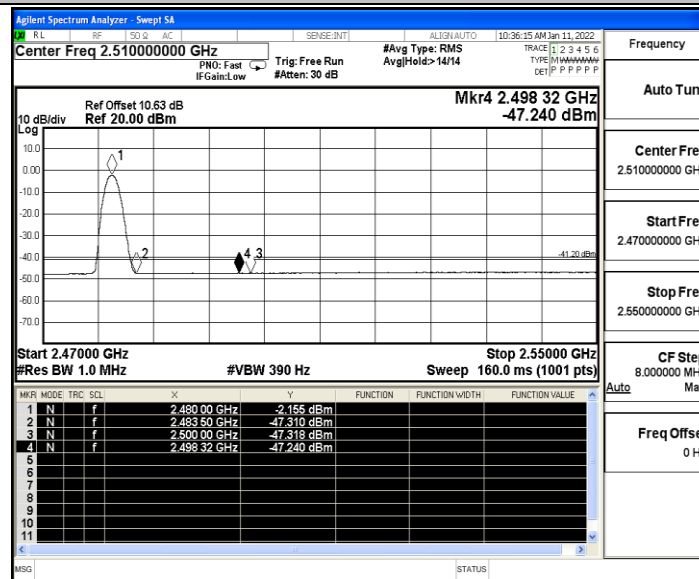


3DH5_Ant_Low_2402_Peak





3DH5_Ant_High_2480_AV



3DH5_Ant_High_2480_Peak

