



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Massage chair

Test Model: N-0002T

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan



A.1 20dB Emission Bandwidth

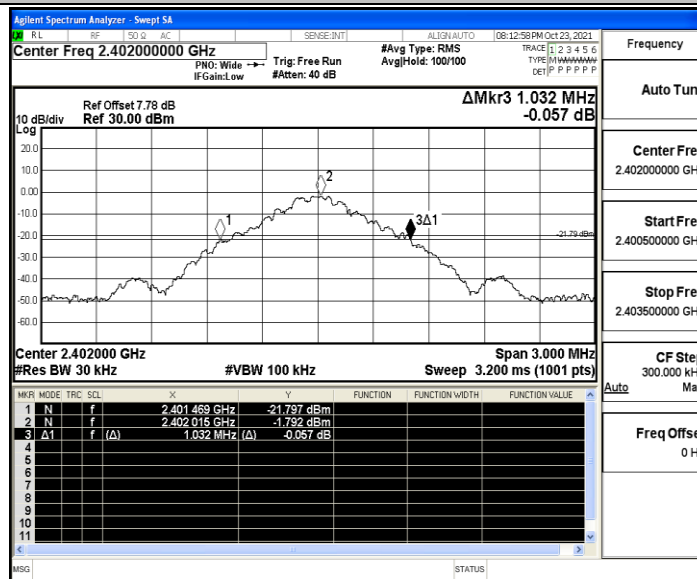
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.469	2402.501	---	PASS
		2441	1.041	2440.466	2441.507	---	PASS
		2480	1.011	2479.475	2480.486	---	PASS
2DH5	Ant1	2402	1.356	2401.325	2402.681	---	PASS
		2441	1.314	2440.343	2441.657	---	PASS
		2480	1.314	2479.340	2480.654	---	PASS
3DH5	Ant1	2402	1.308	2401.346	2402.654	---	PASS
		2441	1.347	2440.325	2441.672	---	PASS
		2480	1.311	2479.346	2480.657	---	PASS

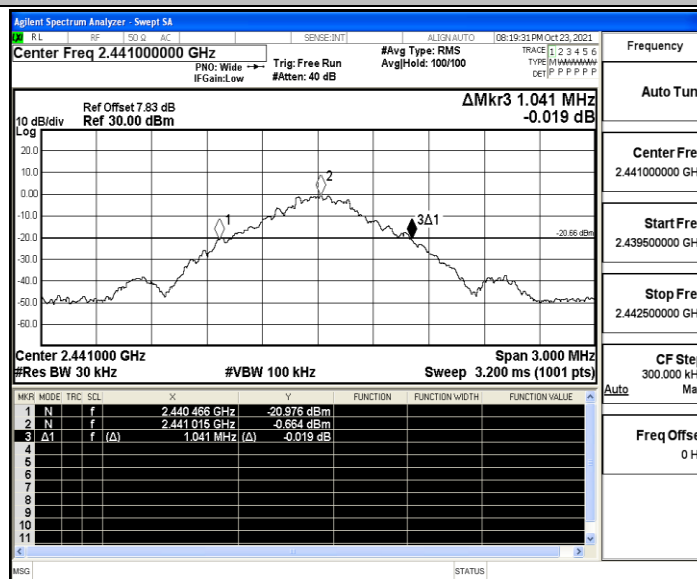


Test Graphs

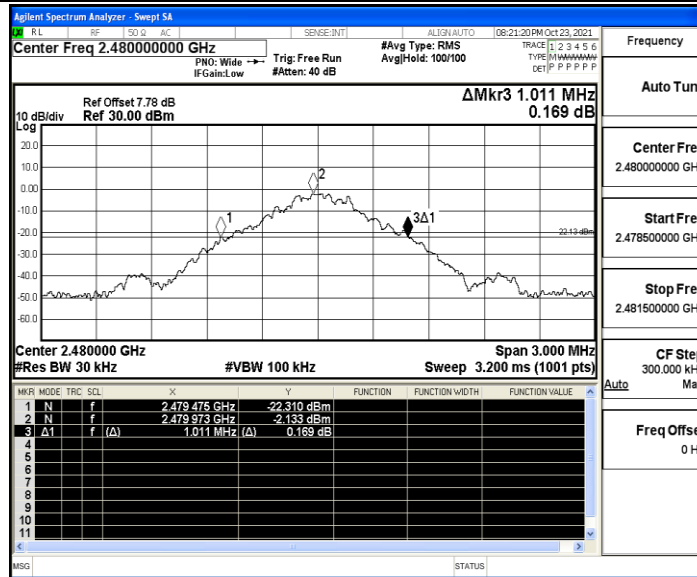
DH5_Ant1_2402



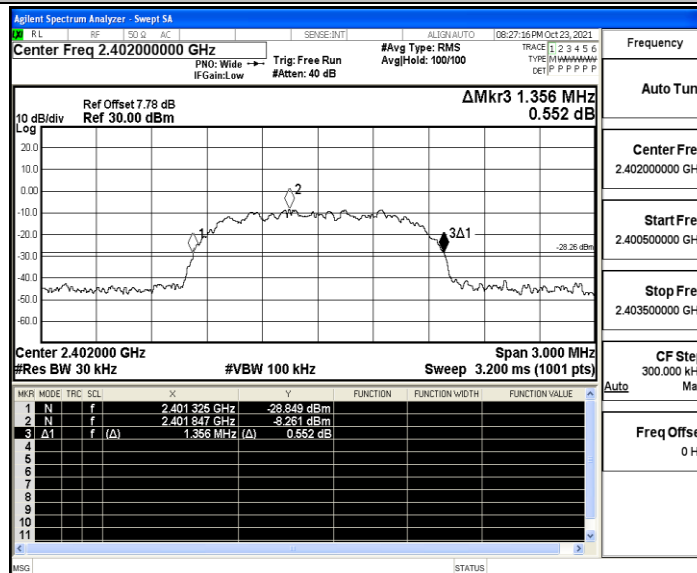
DH5_Ant1_2441



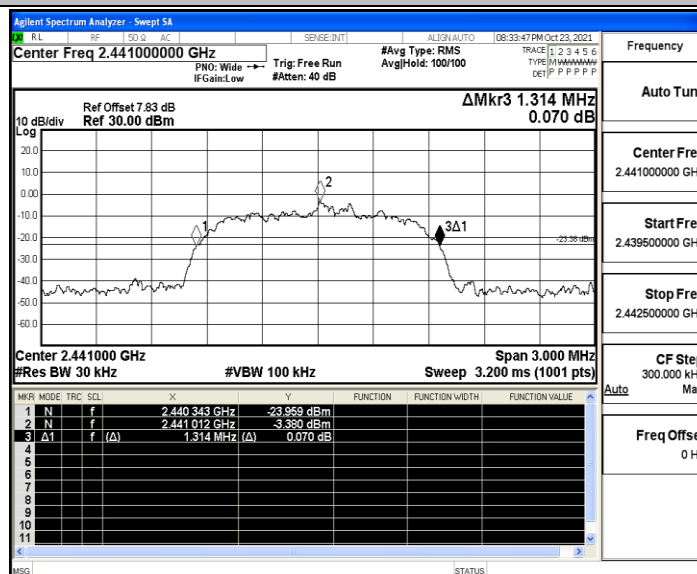
DH5_Ant1_2480



2DH5_Ant1_2402

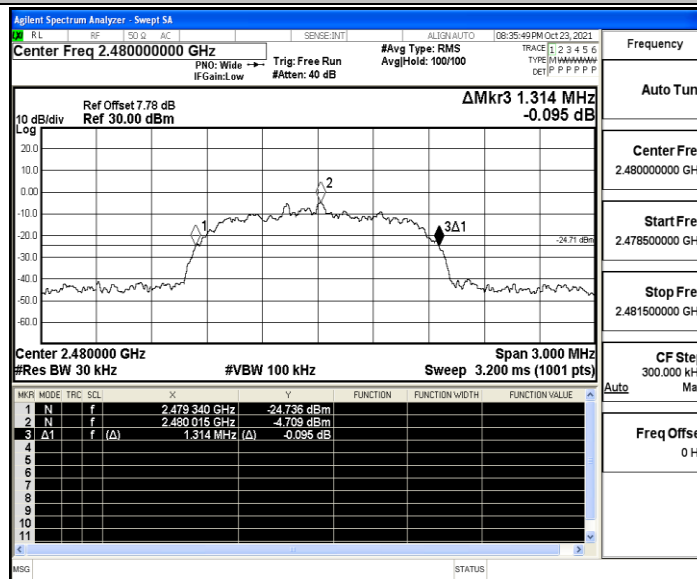


2DH5_Ant1_2441

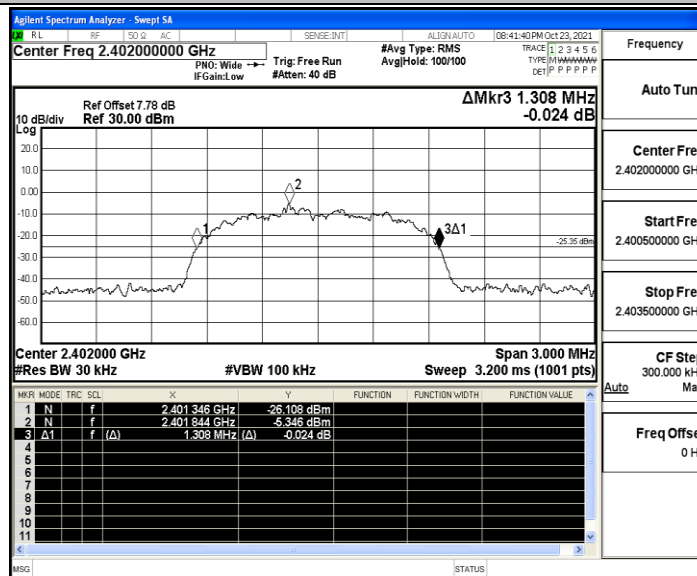




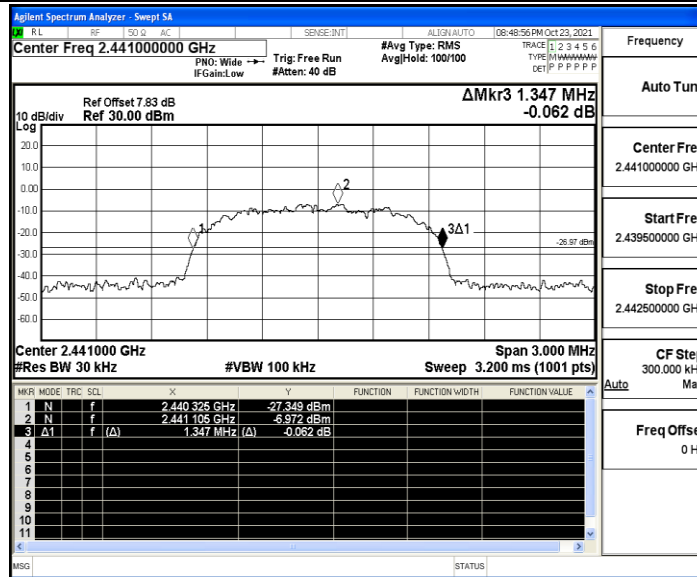
2DH5_Ant1_2480



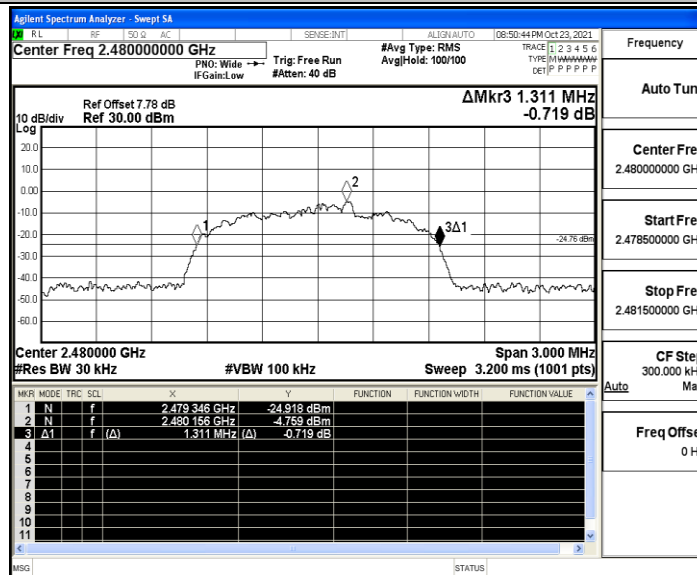
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum conducted output power

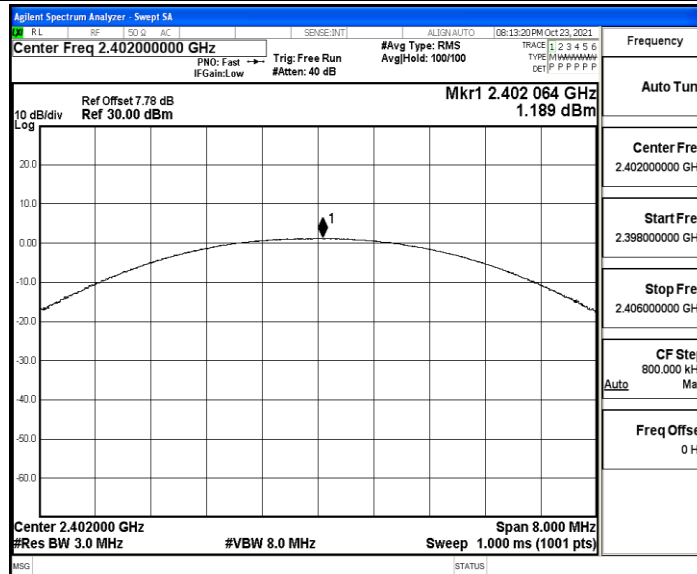
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.19	≤ 20.97	PASS
		2441	2.34	≤ 20.97	PASS
		2480	0.80	≤ 20.97	PASS
2DH5	Ant1	2402	0.22	≤ 20.97	PASS
		2441	1.41	≤ 20.97	PASS
		2480	-0.07	≤ 20.97	PASS
3DH5	Ant1	2402	0.47	≤ 20.97	PASS
		2441	1.51	≤ 20.97	PASS
		2480	0.12	≤ 20.97	PASS

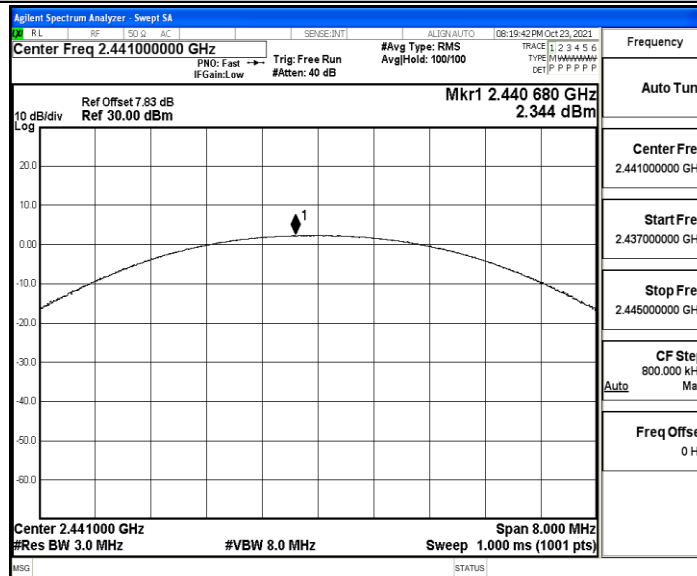


Test Graphs

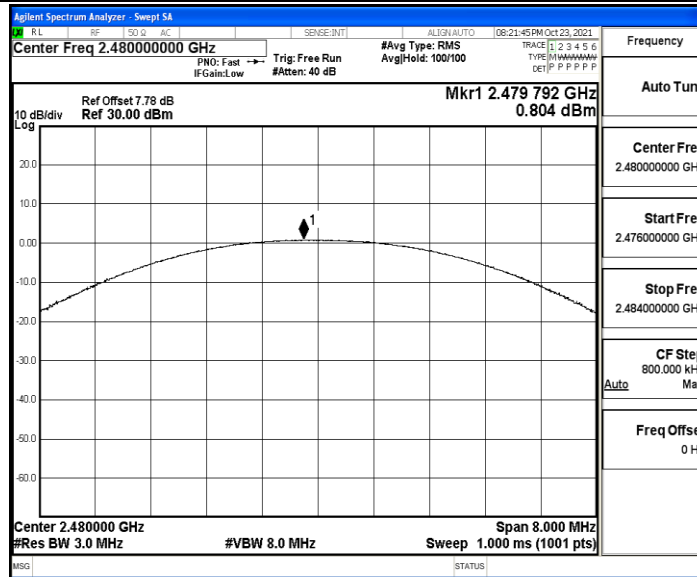
DH5_Ant1_2402



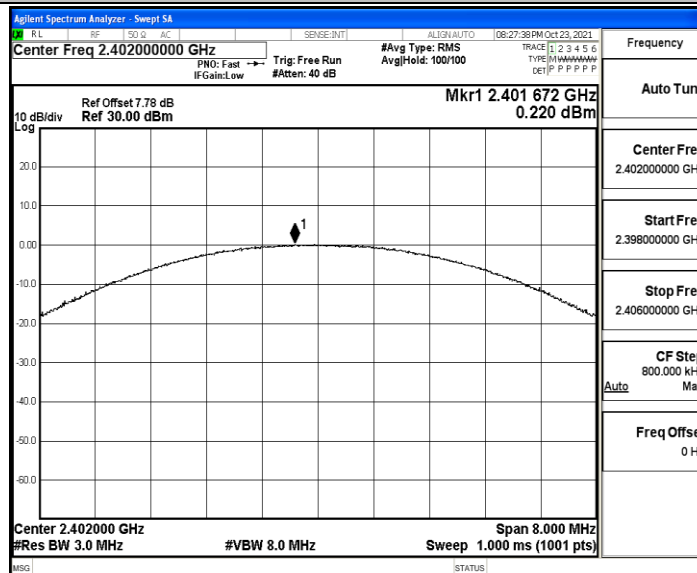
DH5_Ant1_2441



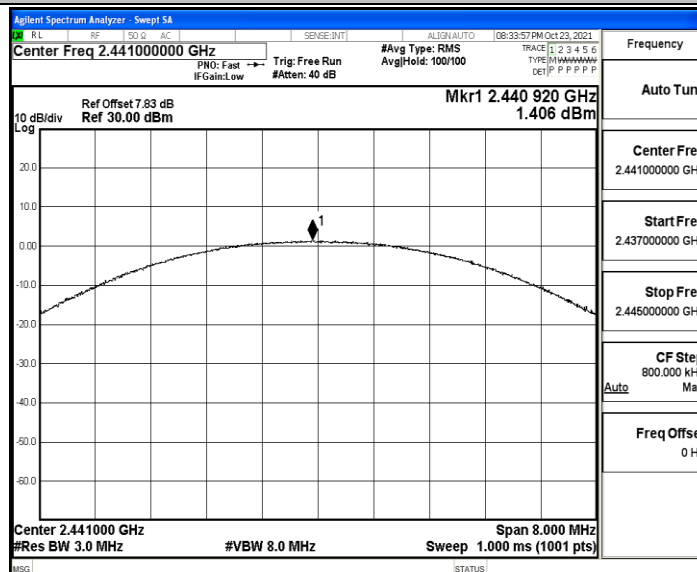
DH5_Ant1_2480



2DH5_Ant1_2402

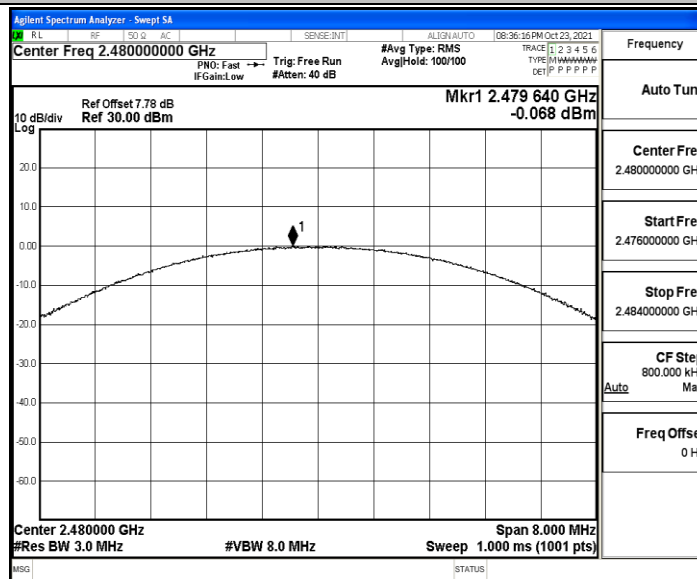


2DH5_Ant1_2441

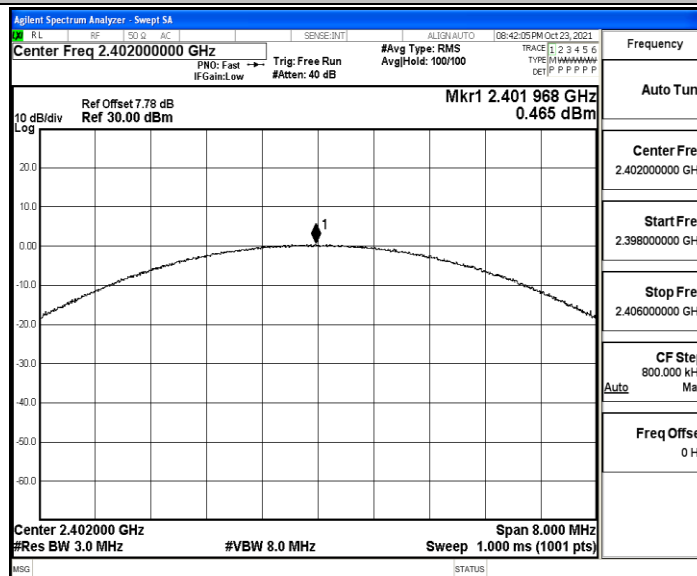




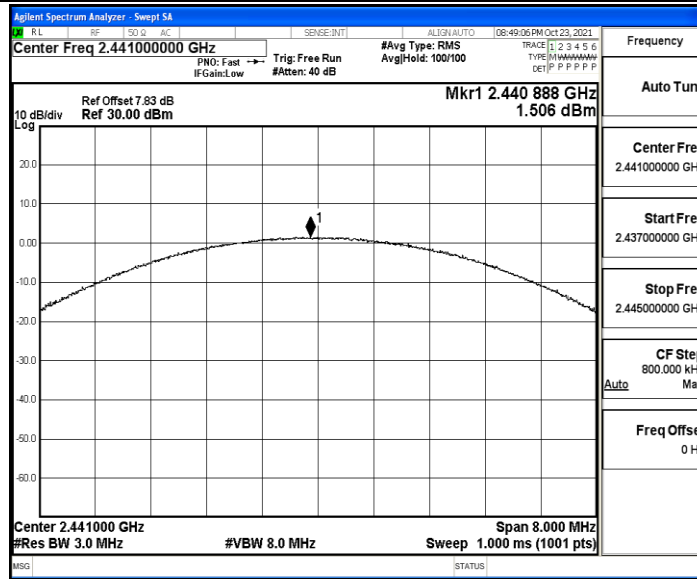
2DH5_Ant1_2480



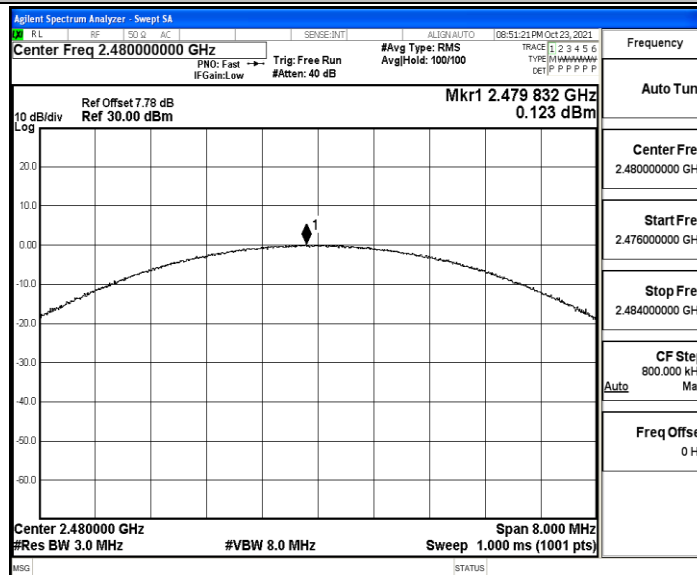
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



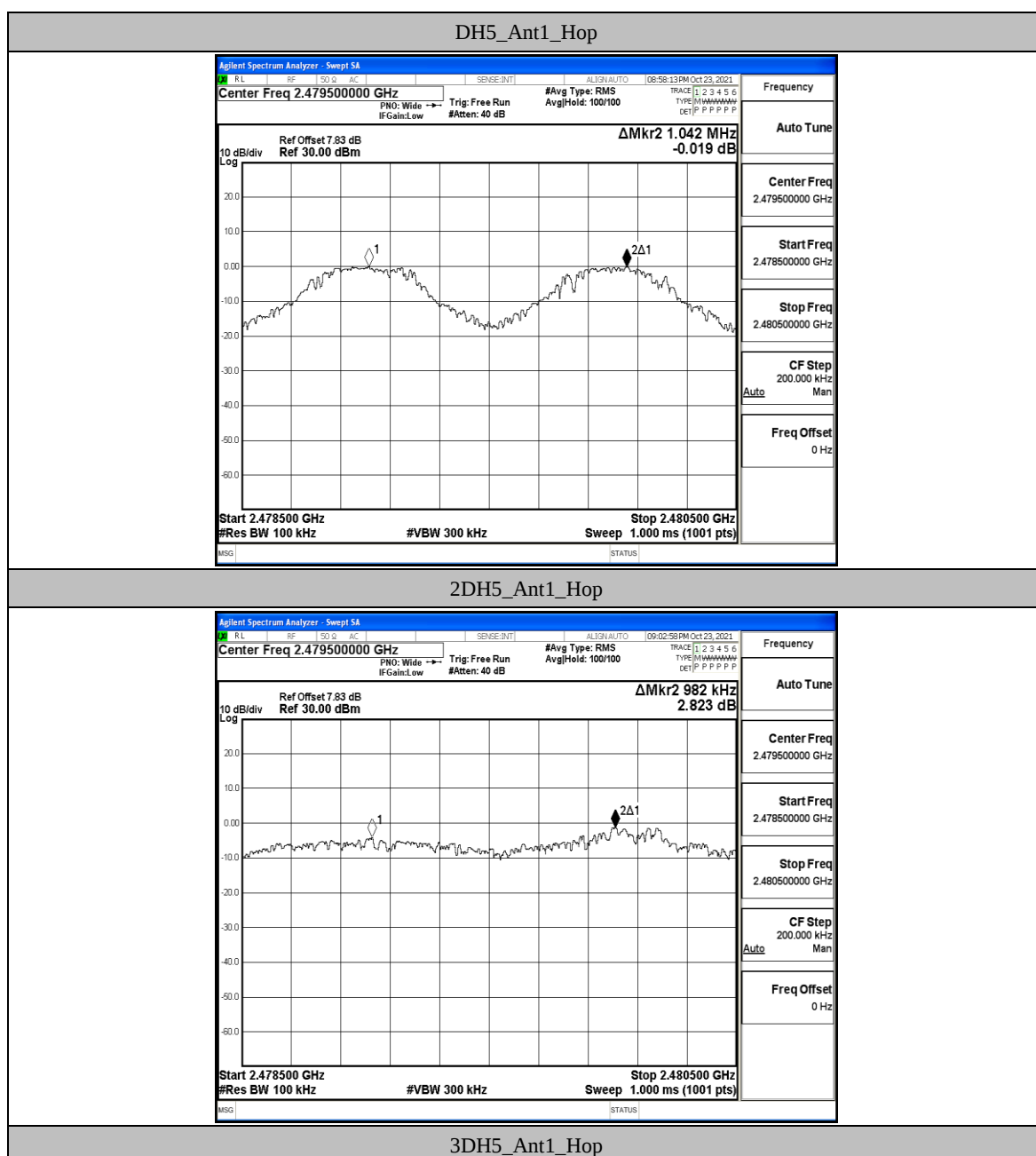


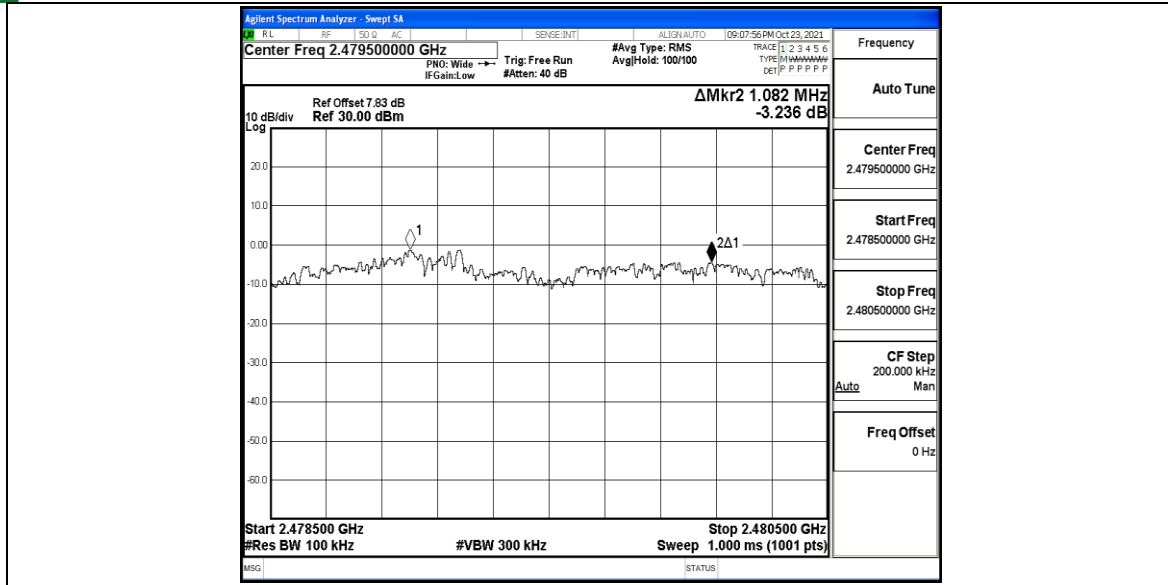
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.042	≥ 0.674	PASS
2DH5	Ant1	Hop	0.982	≥ 0.876	PASS
3DH5	Ant1	Hop	1.082	≥ 0.872	PASS

Test Graphs





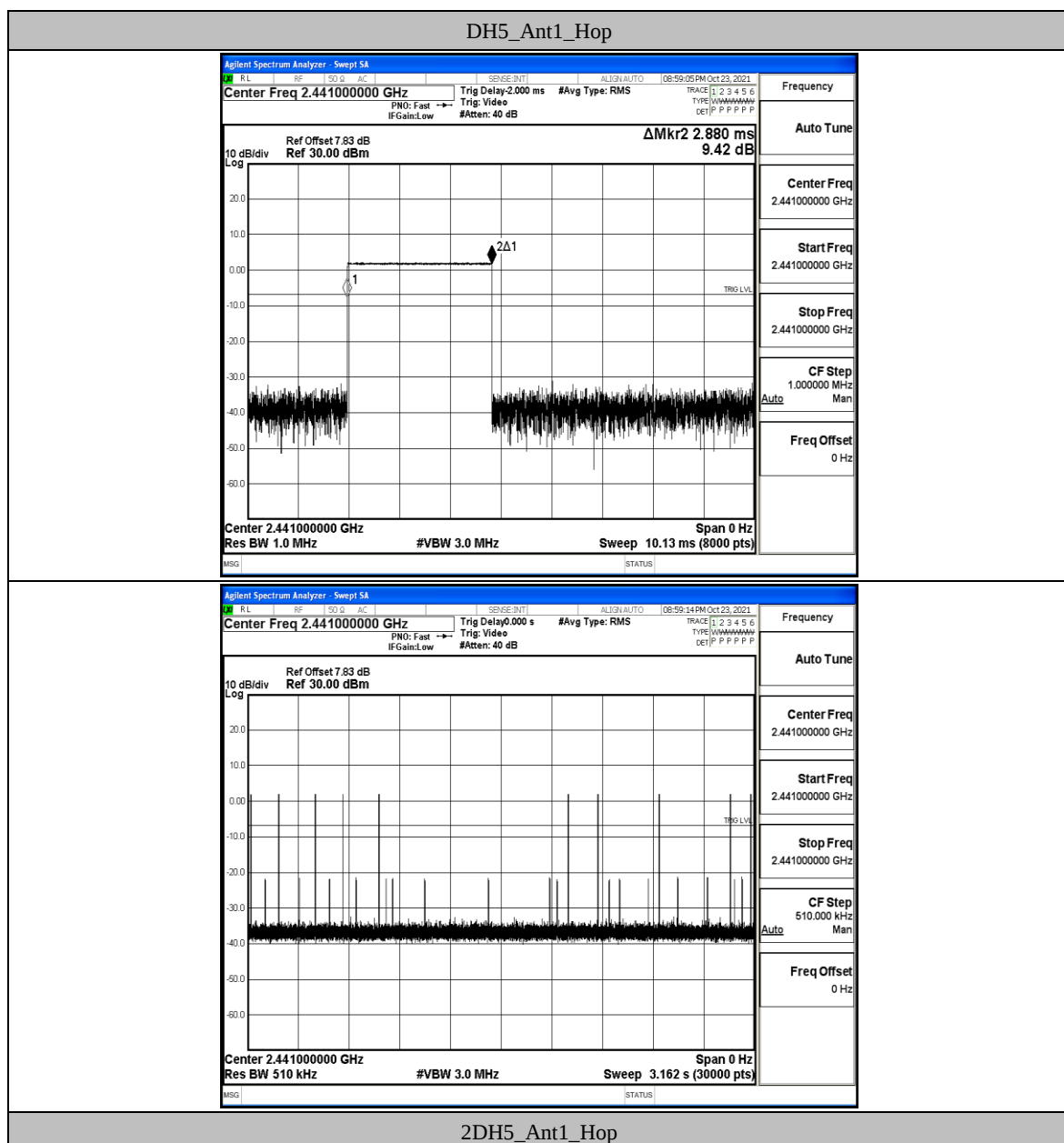


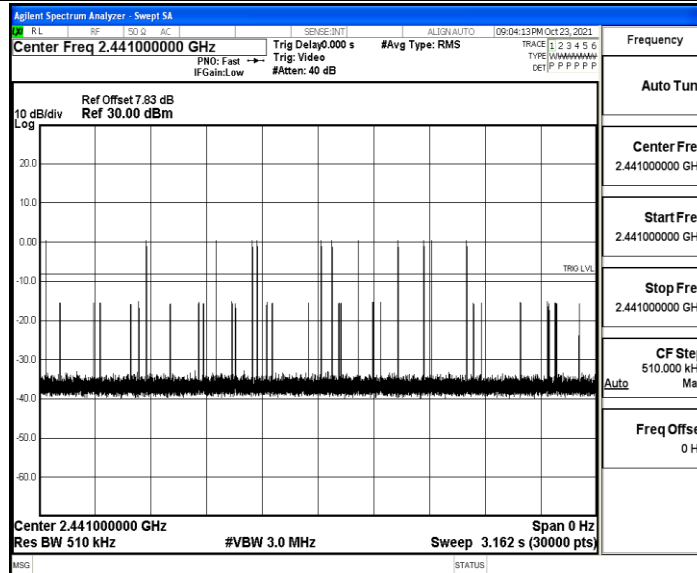
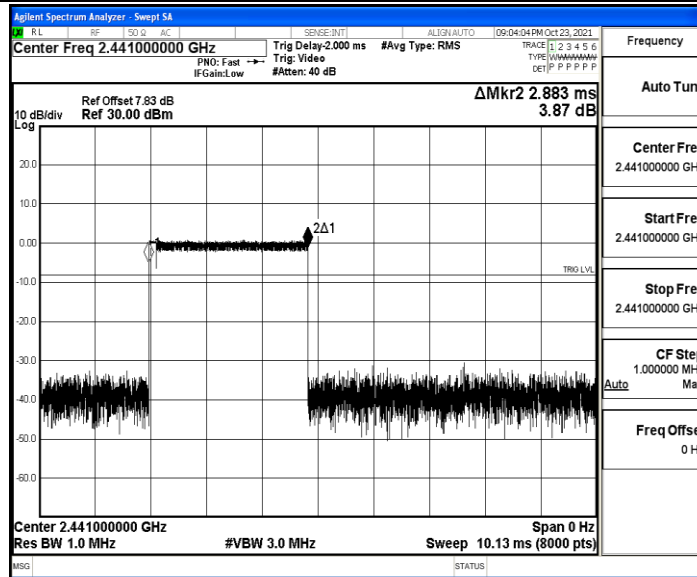
A.4 Time of occupancy

Test Result

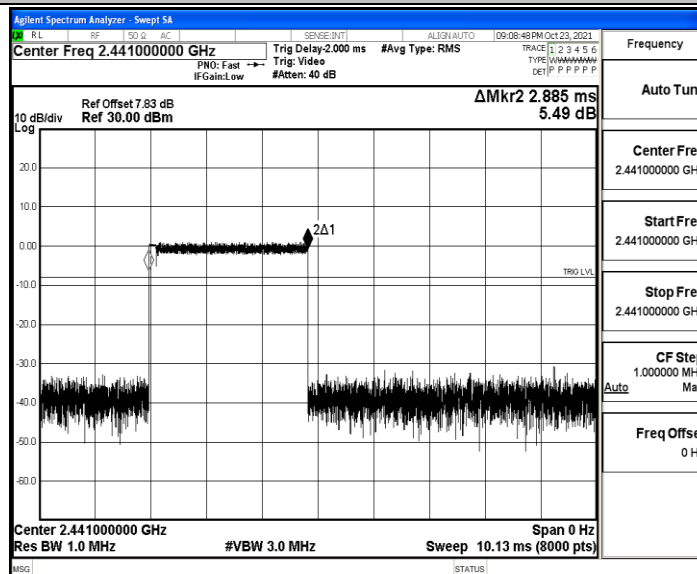
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

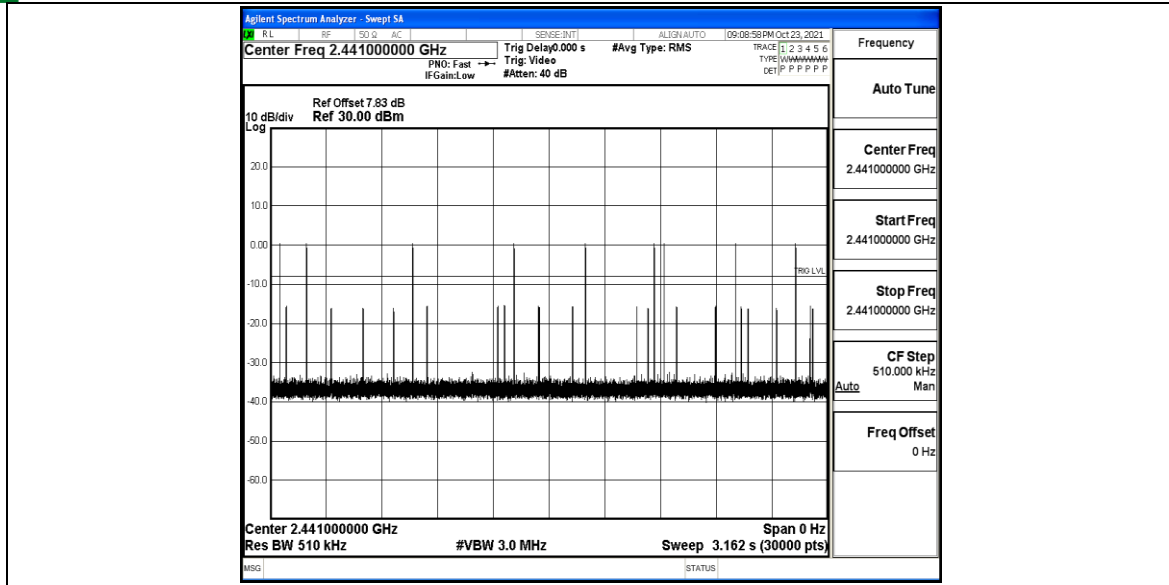
Test Graphs





3DH5_Ant1_Hop





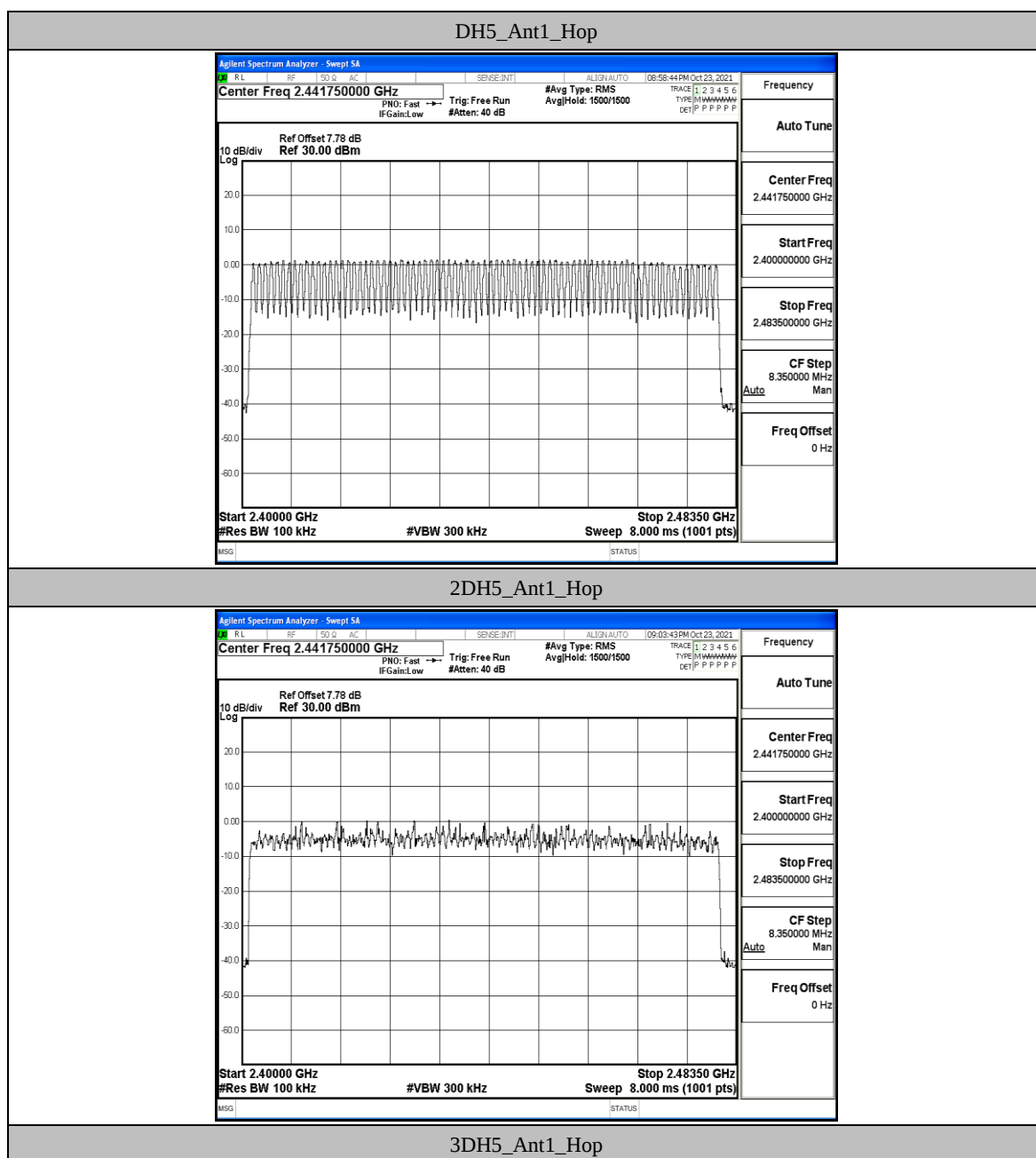


A.5 Number of hopping channels

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



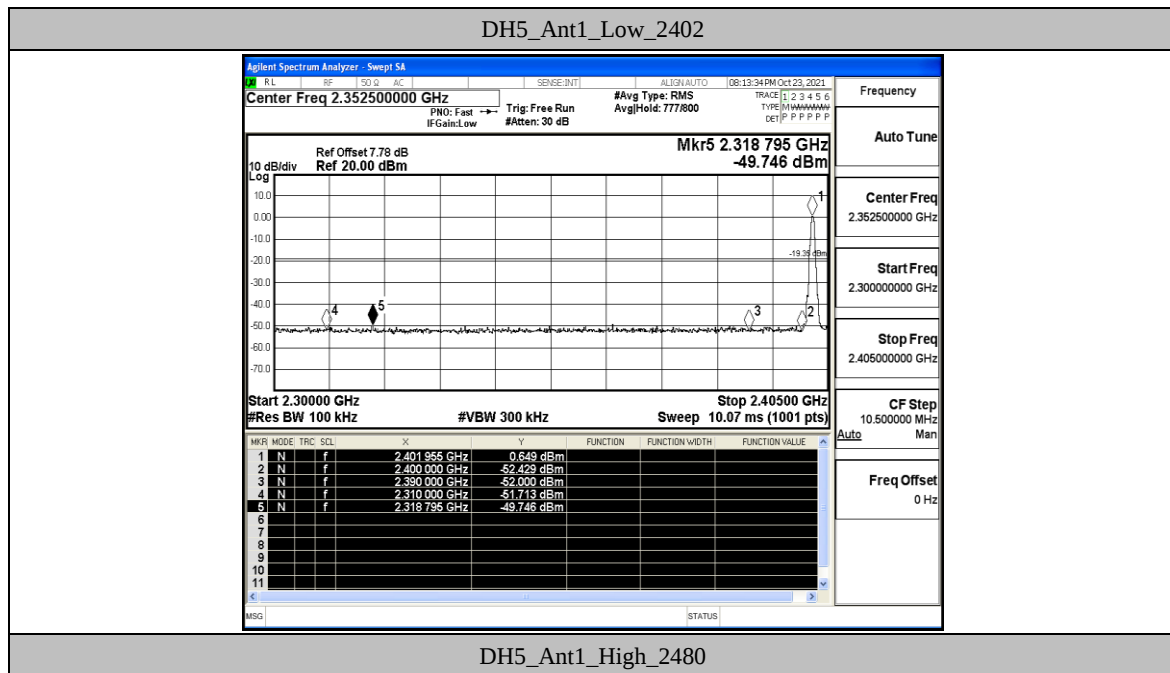


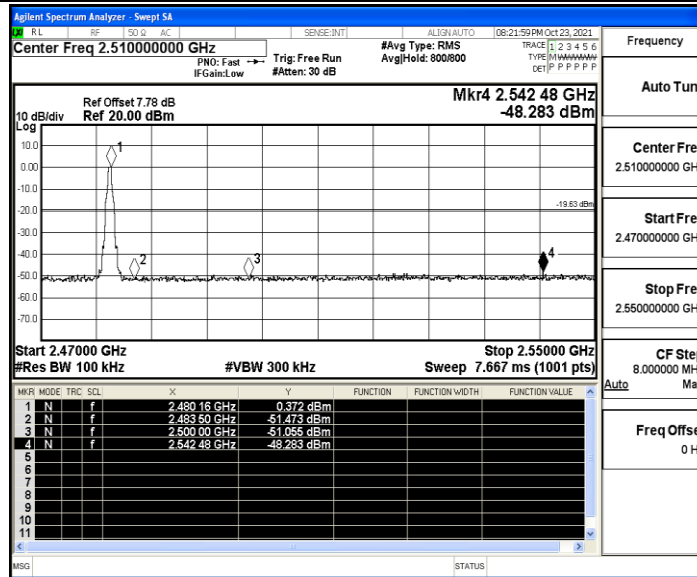
A.6 Band edge measurements

Test Result

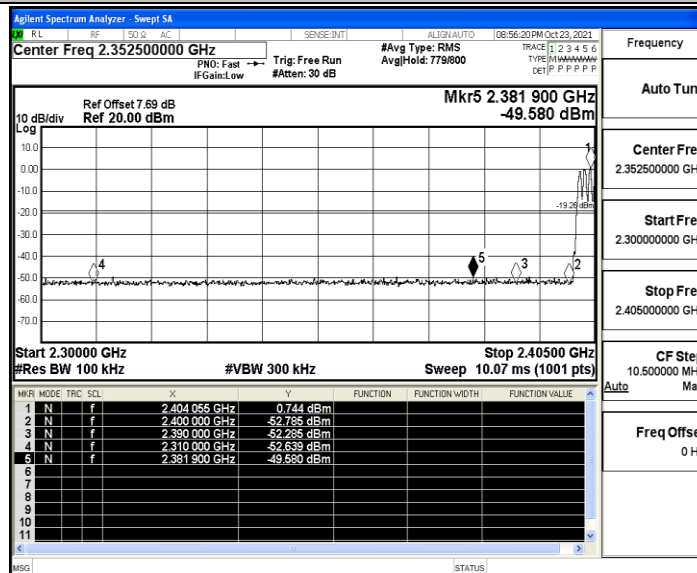
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.65	-49.75	≤ -19.35	PASS
		High	2480	0.37	-48.28	≤ -19.63	PASS
		Low	Hop_2402	0.74	-49.58	≤ -19.26	PASS
		High	Hop_2480	0.39	-46.38	≤ -19.61	PASS
2DH5	Ant1	Low	2402	-0.79	-48.86	≤ -20.79	PASS
		High	2480	-0.87	-43.88	≤ -20.87	PASS
		Low	Hop_2402	-3.74	-49.96	≤ -23.74	PASS
		High	Hop_2480	-1.59	-48.46	≤ -21.59	PASS
3DH5	Ant1	Low	2402	-0.63	-49.8	≤ -20.63	PASS
		High	2480	-1.01	-48.17	≤ -21.01	PASS
		Low	Hop_2402	-1.44	-49.76	≤ -21.44	PASS
		High	Hop_2480	-1.18	-48.73	≤ -21.18	PASS

Test Graphs

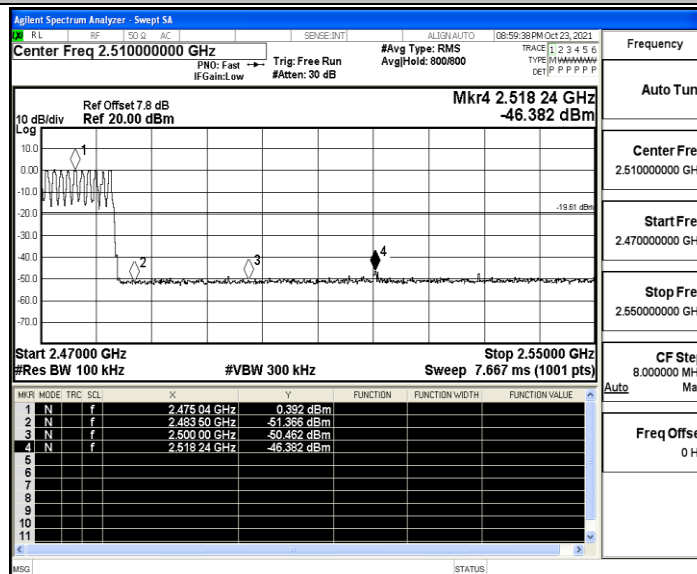




DH5_Ant1_Low_Hop_2402

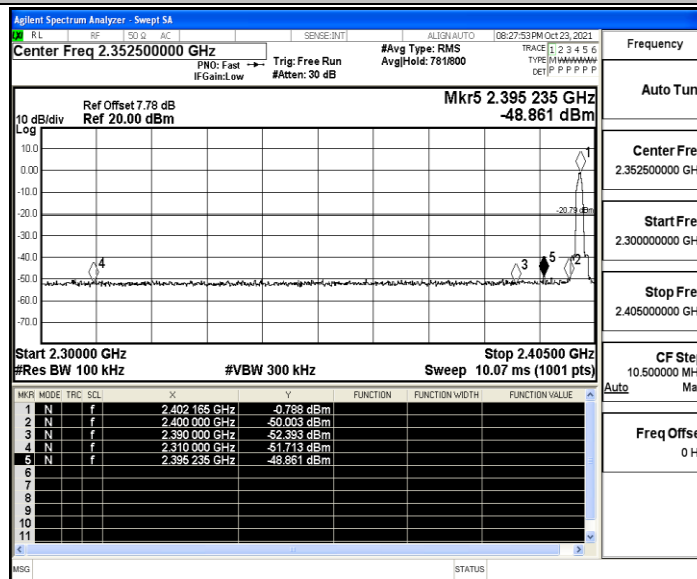


DH5_Ant1_High_Hop_2480

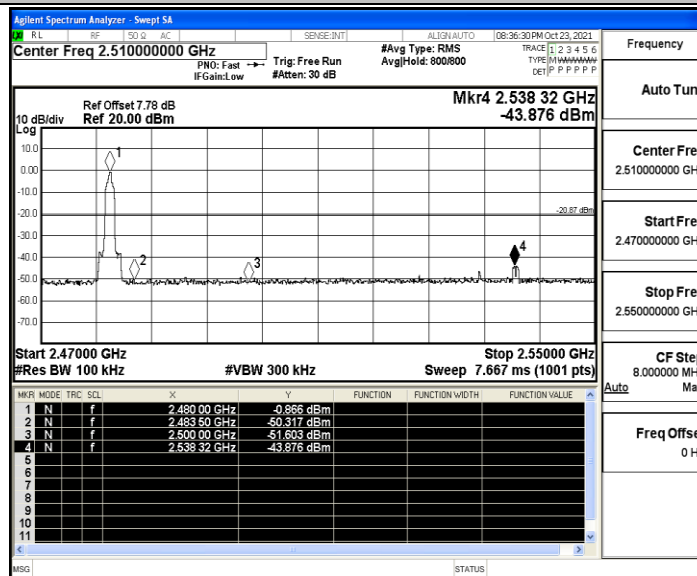




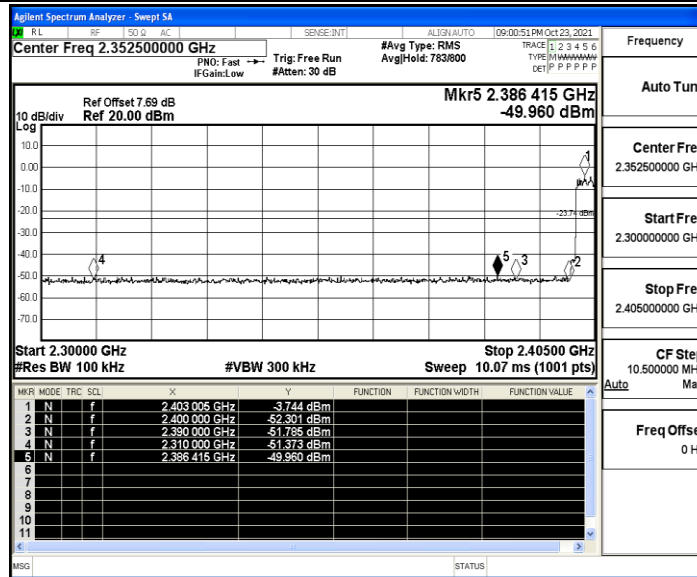
2DH5_Ant1_Low_2402



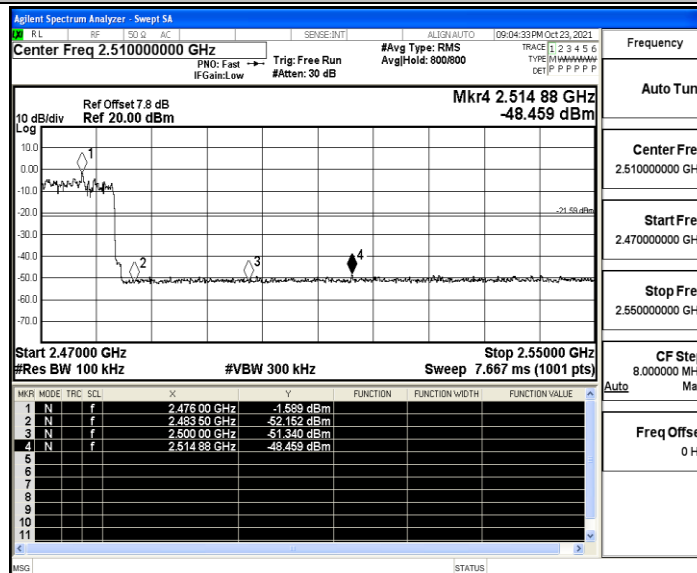
2DH5_Ant1_High_2480



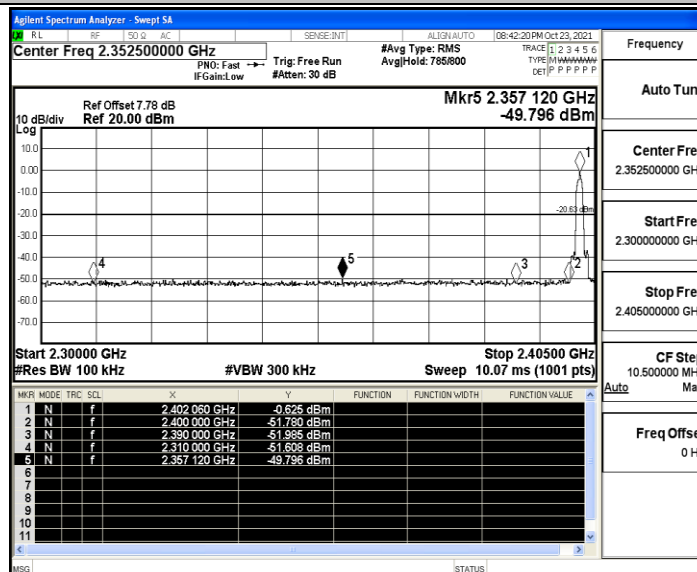
2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

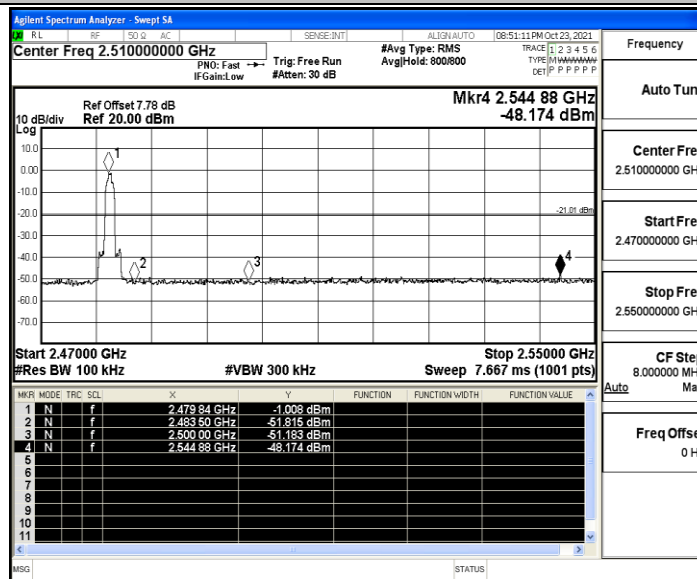


3DH5_Ant1_Low_2402

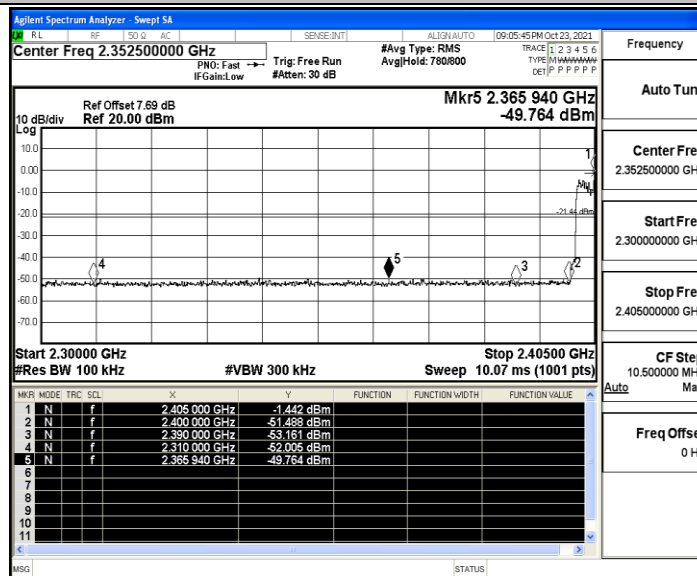




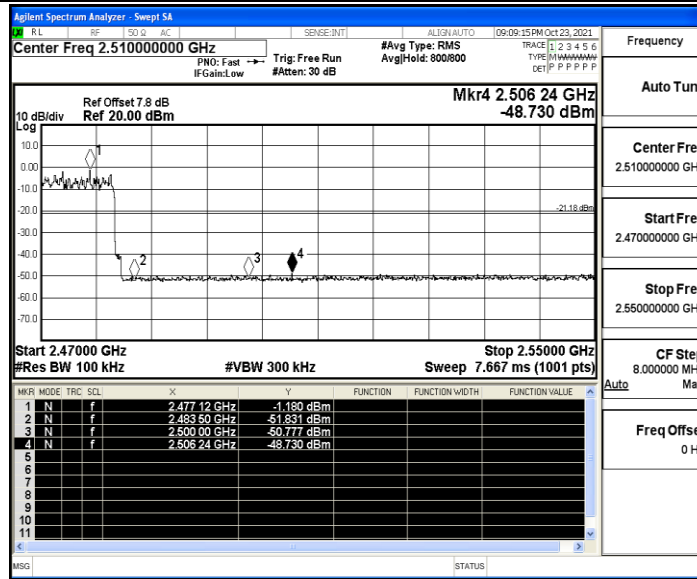
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





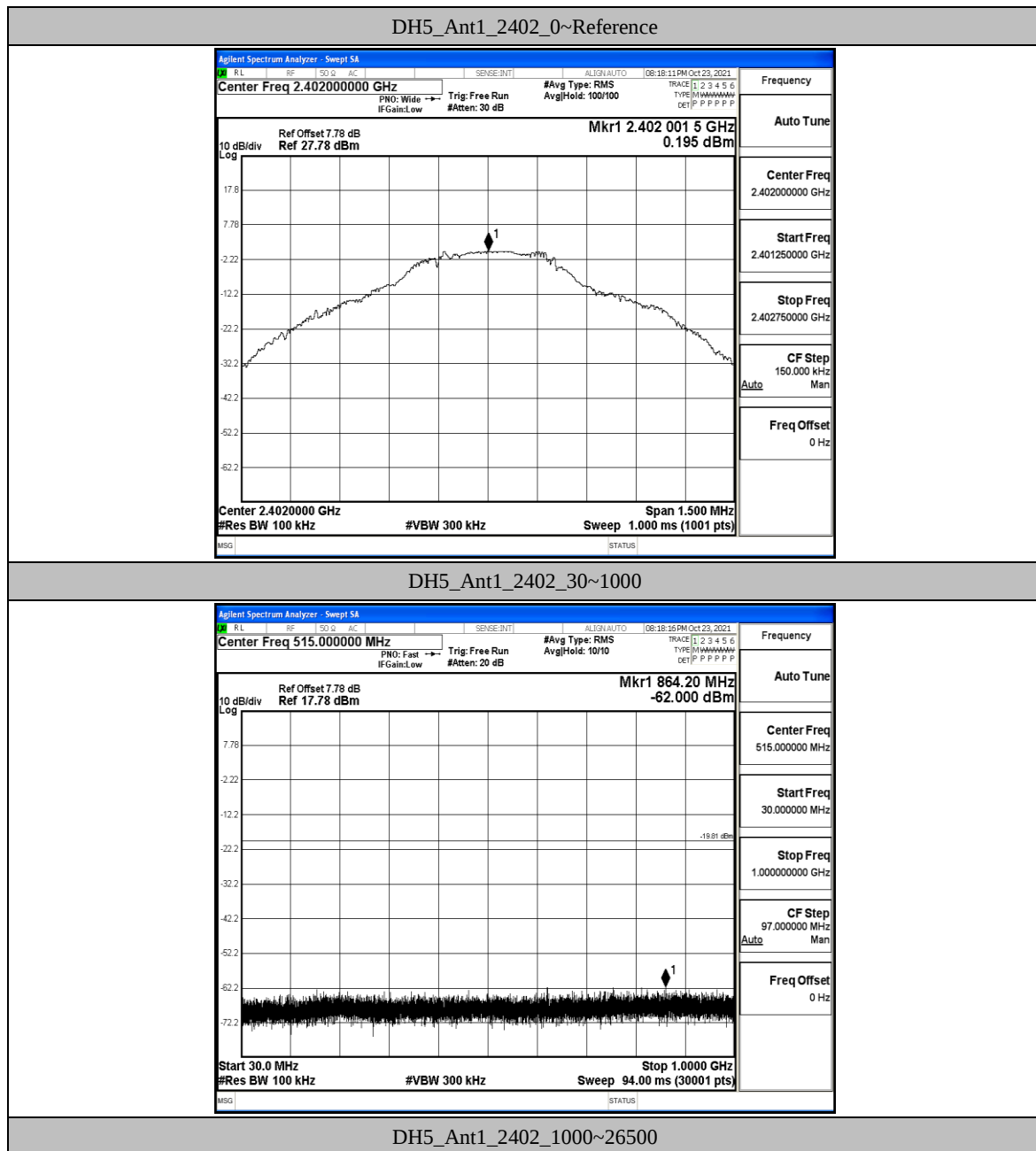
A.7 Conducted Spurious Emission

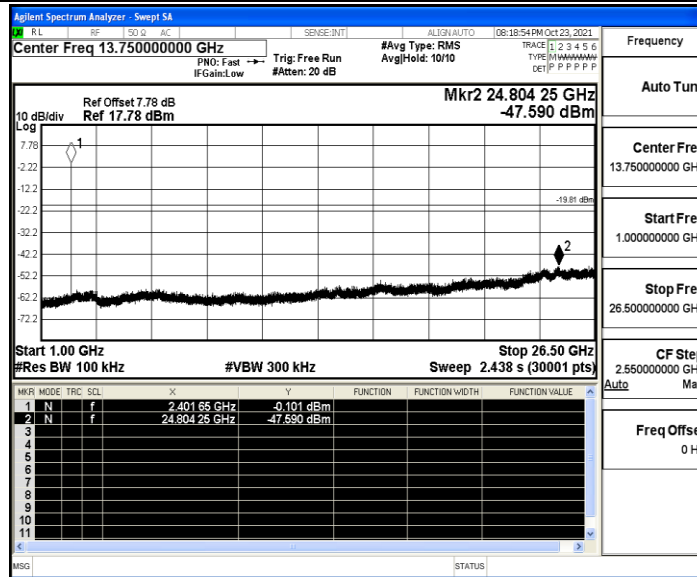
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-62	≤ -19.81	PASS
			1000~26500	0.20	-47.59	≤ -19.81	PASS
		2441	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-61.6	≤ -18.26	PASS
			1000~26500	1.74	-47.68	≤ -18.26	PASS
		2480	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-61.21	≤ -19.9	PASS
			1000~26500	0.10	-47.21	≤ -19.9	PASS
2DH5	Ant1	2402	Reference	-1.57	-1.57	---	PASS
			30~1000	-1.57	-61.9	≤ -21.57	PASS
			1000~26500	-1.57	-47.45	≤ -21.57	PASS
		2441	Reference	0.00	0.00	---	PASS
			30~1000	0.00	-61.62	≤ -20	PASS
			1000~26500	0.00	-47.64	≤ -20	PASS
		2480	Reference	-1.97	-1.97	---	PASS
			30~1000	-1.97	-61.53	≤ -21.97	PASS
			1000~26500	-1.97	-47.45	≤ -21.97	PASS
3DH5	Ant1	2402	Reference	-2.71	-2.71	---	PASS
			30~1000	-2.71	-61.63	≤ -22.71	PASS
			1000~26500	-2.71	-47.28	≤ -22.71	PASS
		2441	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-61.76	≤ -20.04	PASS
			1000~26500	-0.04	-47.66	≤ -20.04	PASS
		2480	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-62.57	≤ -21.05	PASS
			1000~26500	-1.05	-47.07	≤ -21.05	PASS

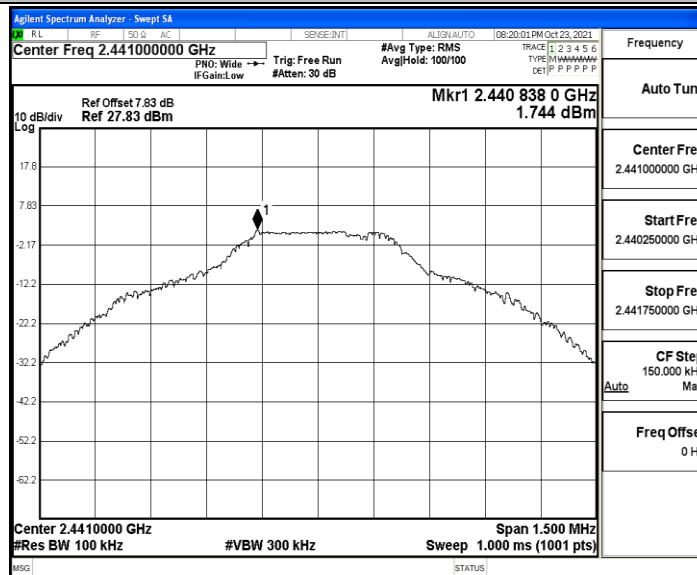


Test Graphs

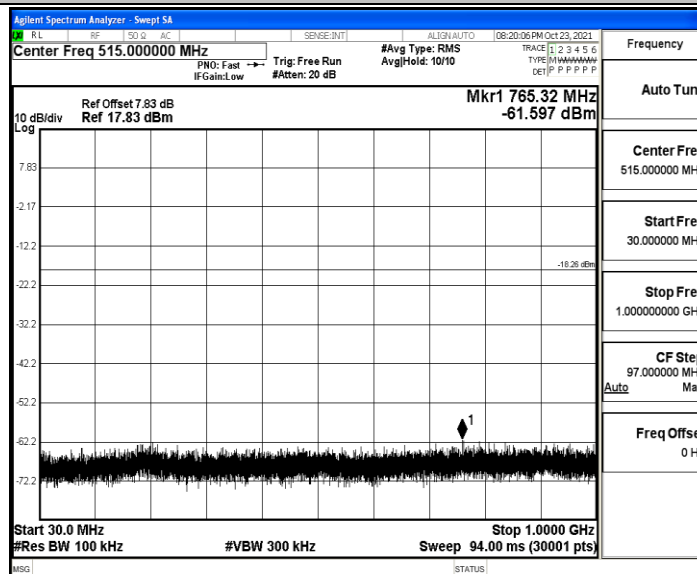




DH5_Ant1_2441_0~Reference

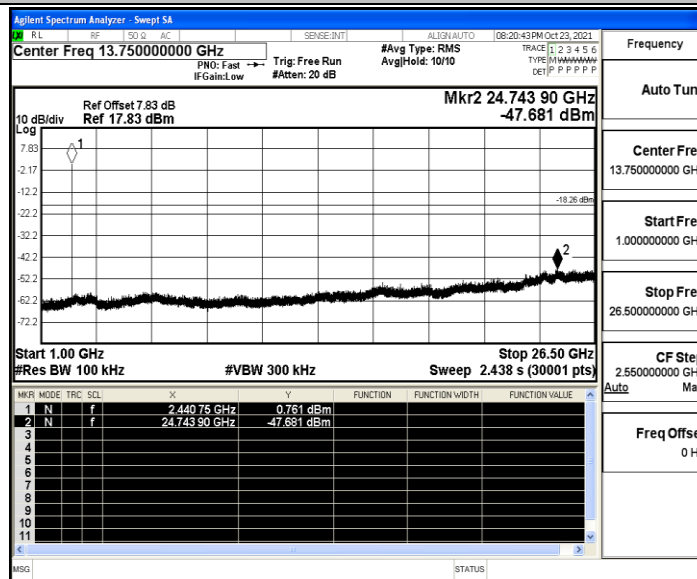


DH5_Ant1_2441_30~1000

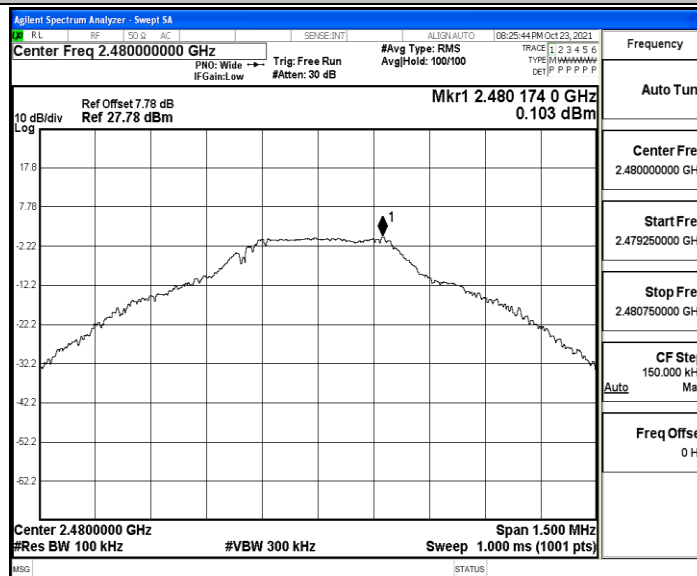




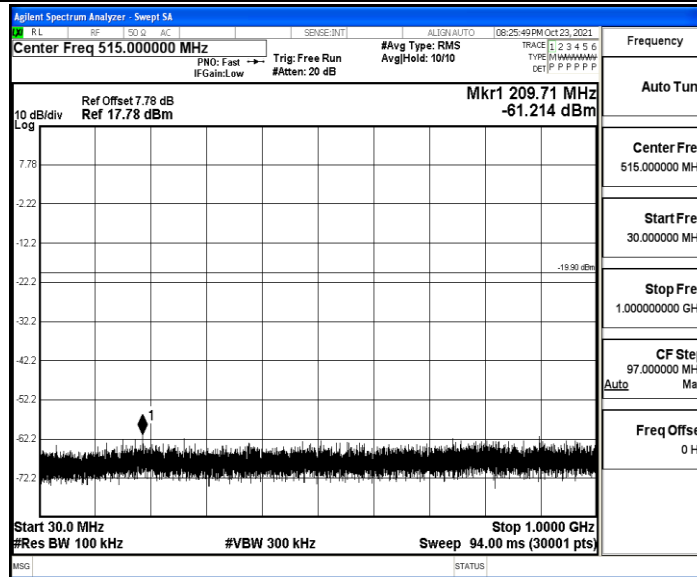
DH5_Ant1_2441_1000~26500



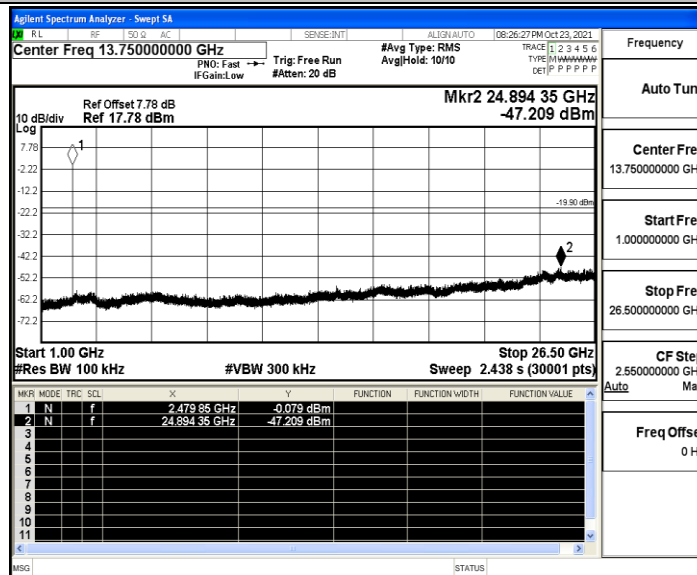
DH5_Ant1_2480_0~Reference



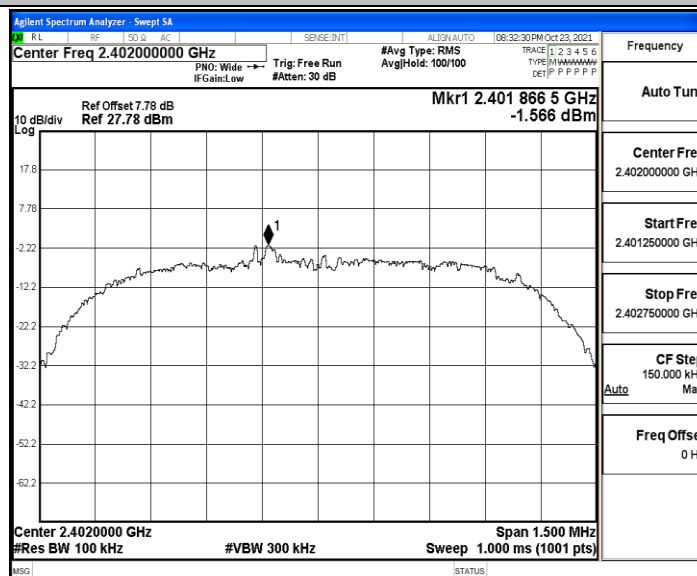
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

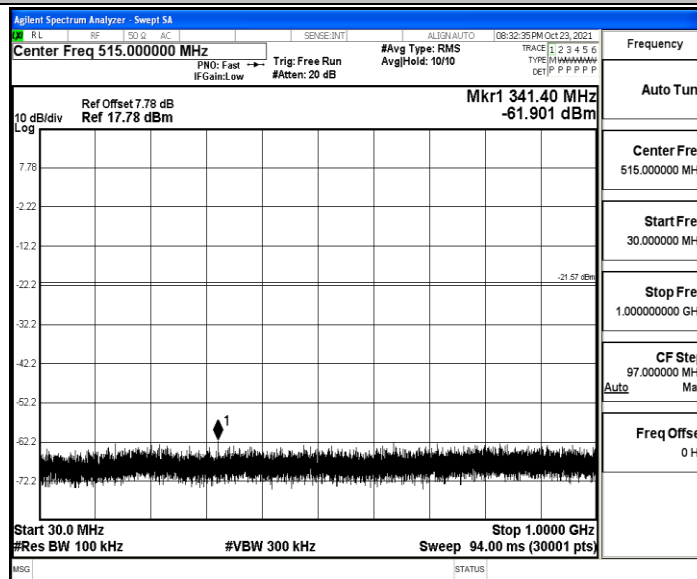


2DH5_Ant1_2402_0~Reference

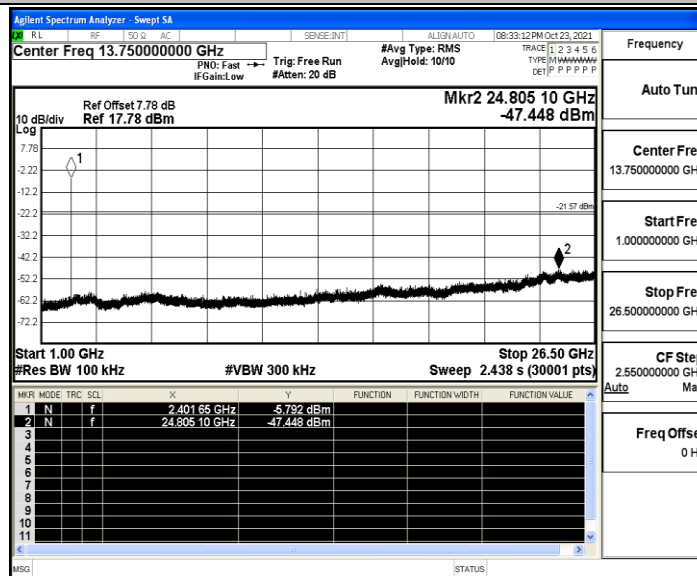




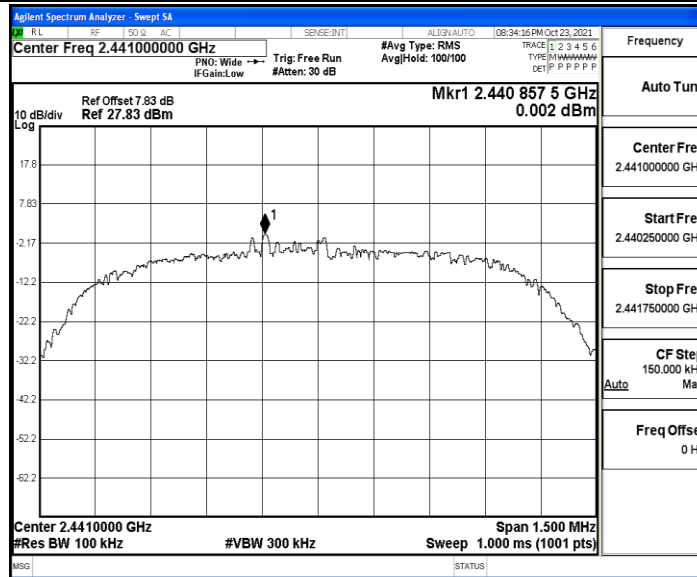
2DH5_Ant1_2402_30~1000



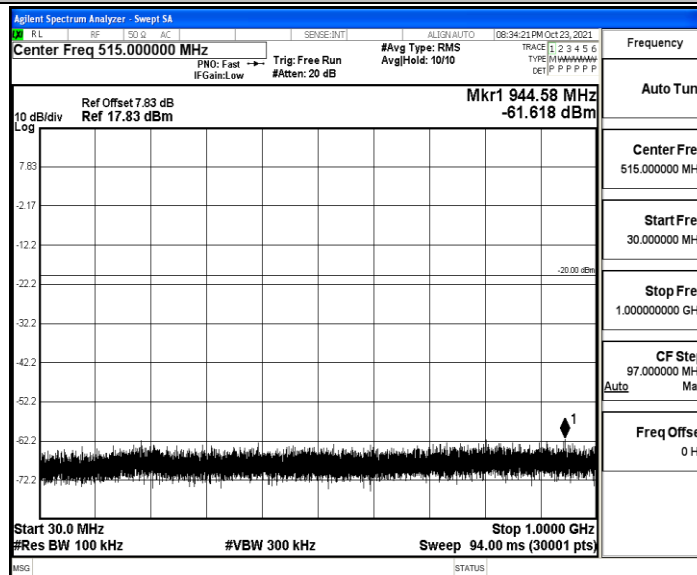
2DH5_Ant1_2402_1000~26500



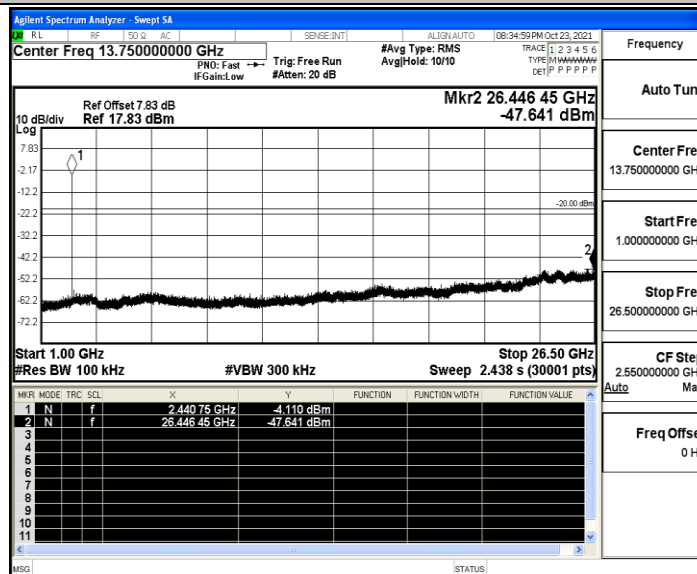
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

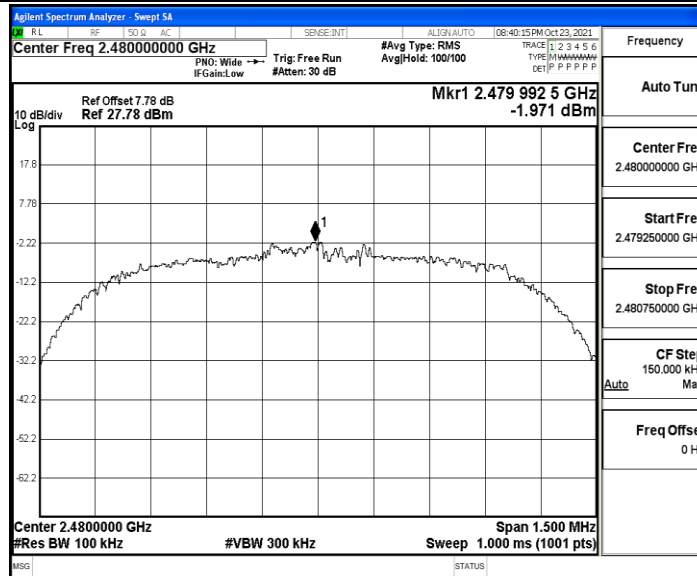


2DH5_Ant1_2441_1000~26500

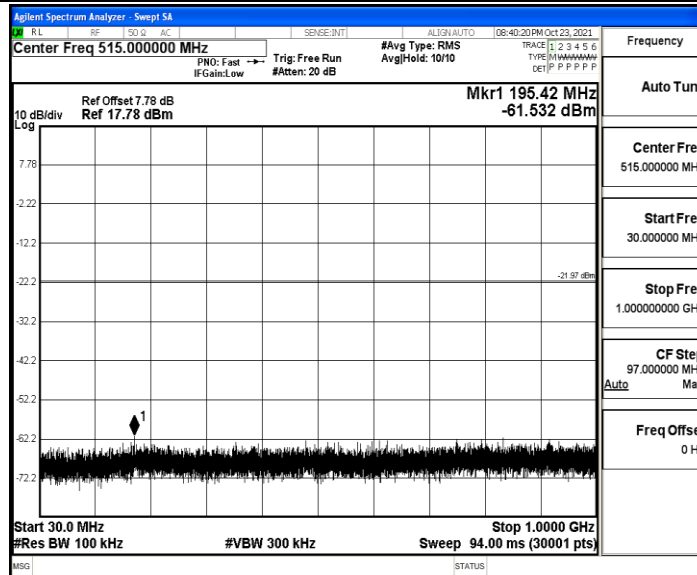




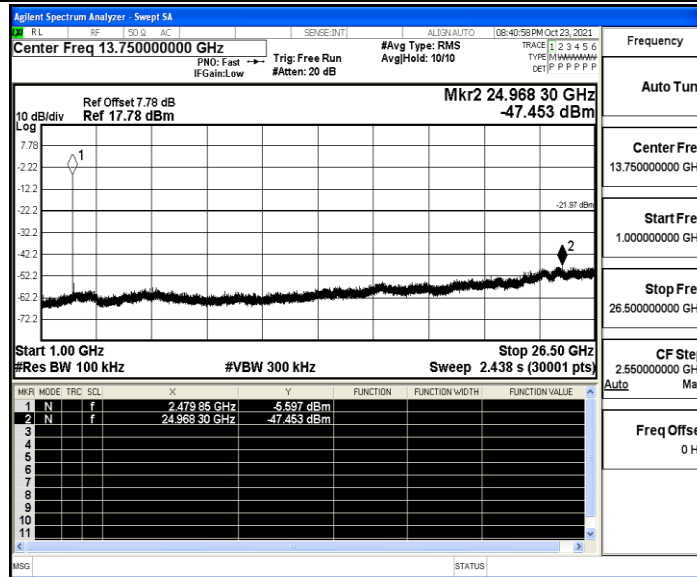
2DH5_Ant1_2480_0~Reference



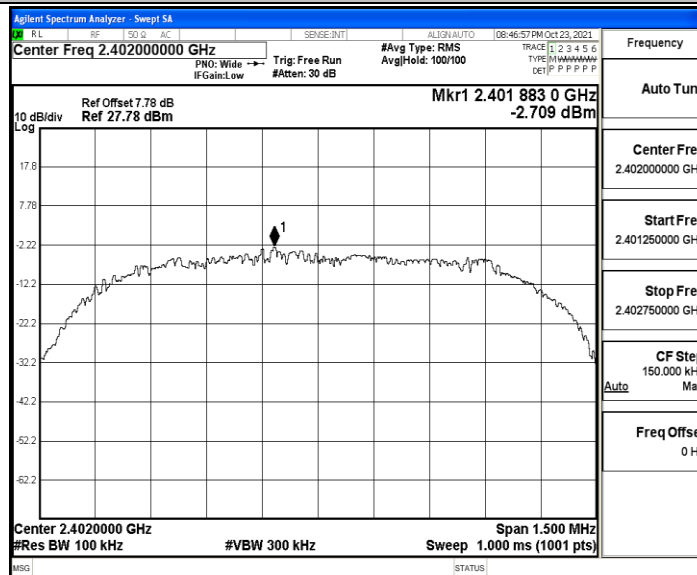
2DH5_Ant1_2480_30~1000



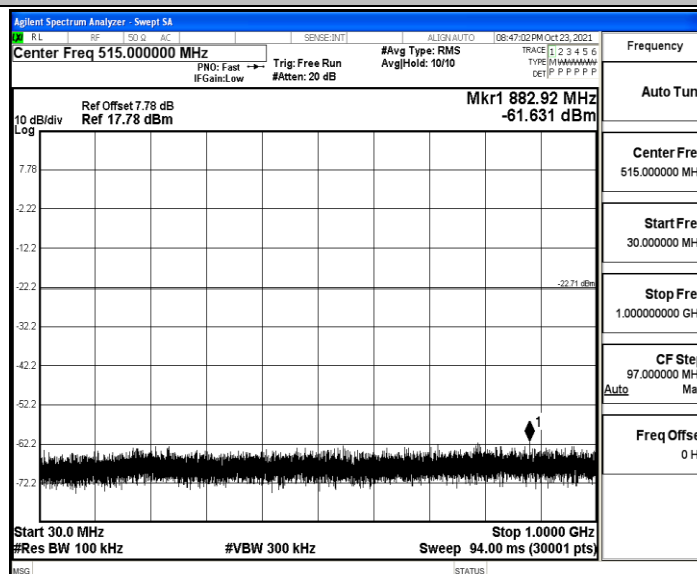
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

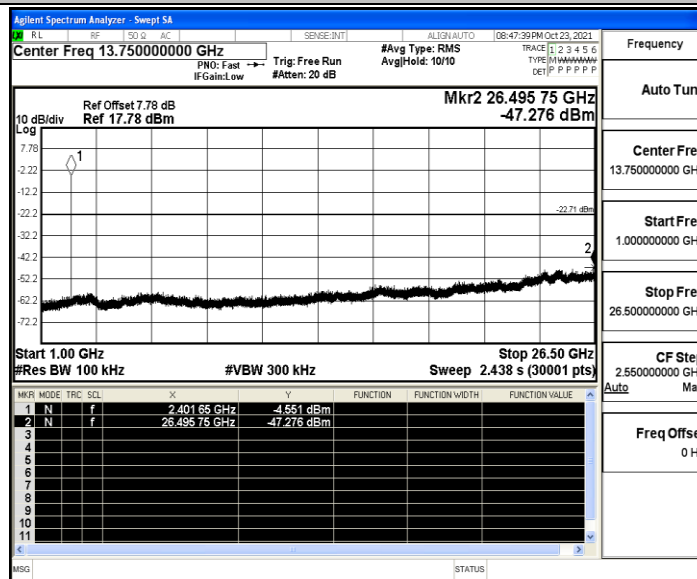


3DH5_Ant1_2402_30~1000

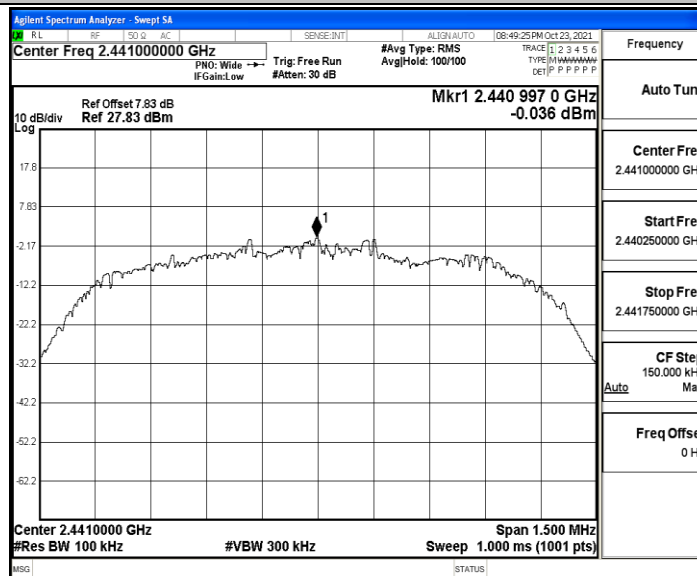




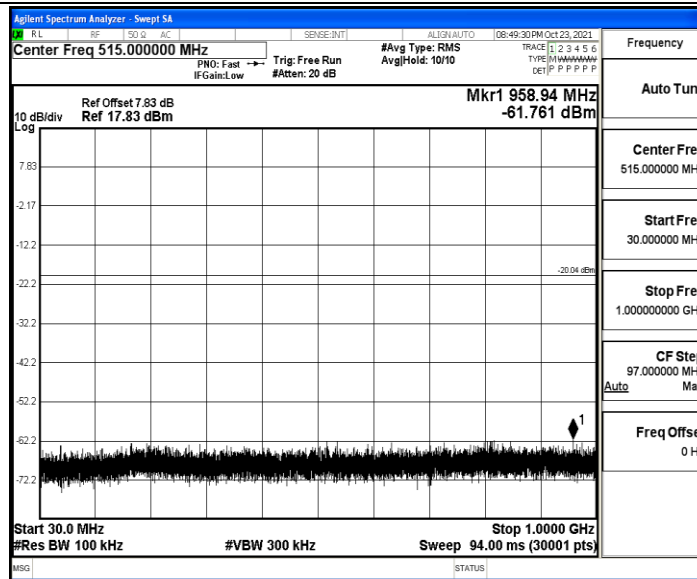
3DH5_Ant1_2402_1000~26500



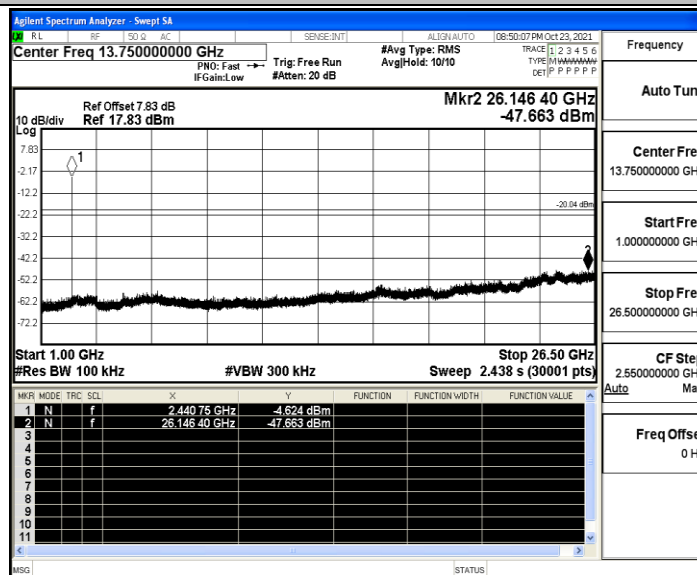
3DH5_Ant1_2441_0~Reference



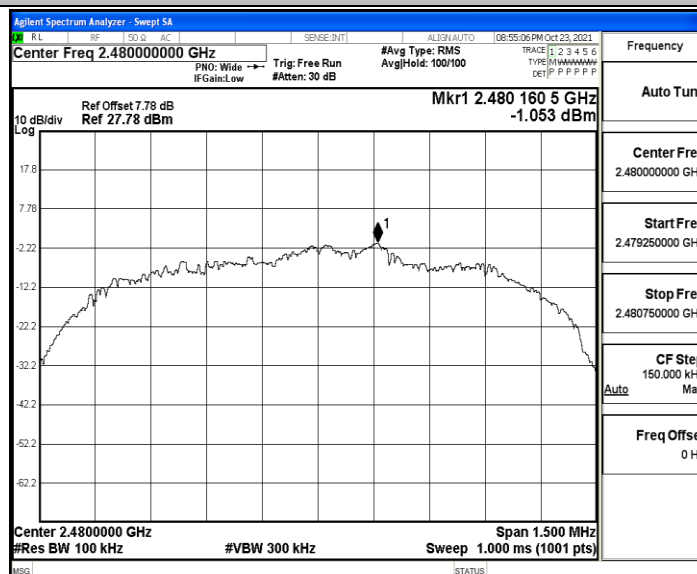
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

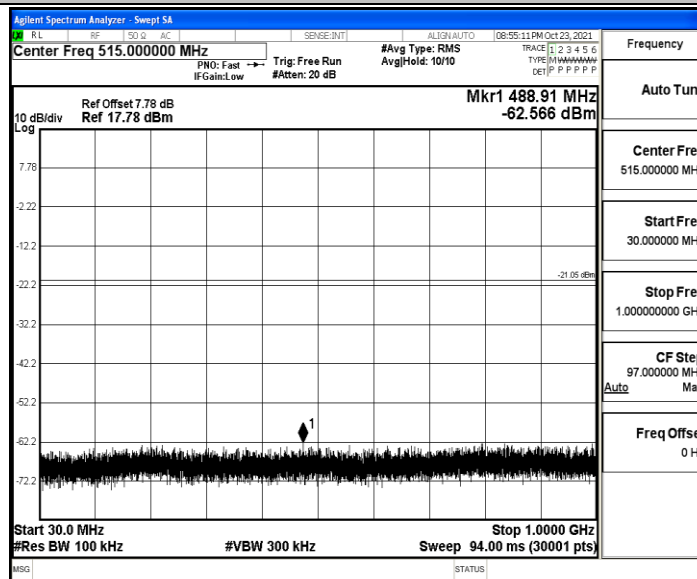


3DH5_Ant1_2480_0~Reference

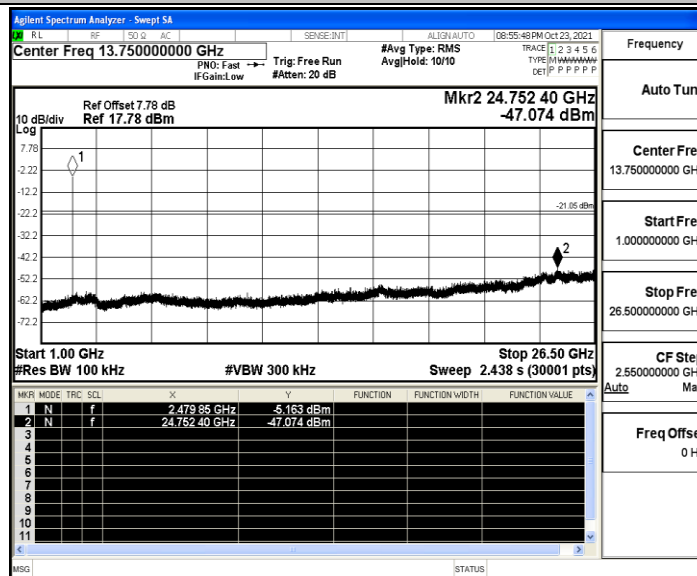




3DH5_Ant1_2480_30~1000



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	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2383.160	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2390.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2310.000	-40.82	≤-21.20	54.38	≤74	PASS
				Peak	2380.955	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2390.000	-39.63	≤-21.20	55.57	≤74	PASS
		High	2480	AV	2483.500	-47.93	≤-41.20	47.27	≤54	PASS
				AV	2483.520	-47.93	≤-41.20	47.27	≤54	PASS
				AV	2500.000	-48.06	≤-41.20	47.14	≤54	PASS
				Peak	2483.500	-39.08	≤-21.20	56.12	≤74	PASS
				Peak	2484.320	-38.15	≤-21.20	57.05	≤74	PASS
				Peak	2500.000	-40.02	≤-21.20	55.18	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.82	≤-41.20	46.38	≤54	PASS
				AV	2386.205	-48.49	≤-41.20	46.71	≤54	PASS
				AV	2390.000	-48.62	≤-41.20	46.58	≤54	PASS
				Peak	2310.000	-40.44	≤-21.20	54.76	≤74	PASS
				Peak	2366.885	-38.01	≤-21.20	57.19	≤74	PASS
				Peak	2390.000	-41.04	≤-21.20	54.16	≤74	PASS
		High	2480	AV	2483.500	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2483.520	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2500.000	-47.99	≤-41.20	47.21	≤54	PASS
				Peak	2483.500	-40.29	≤-21.20	54.91	≤74	PASS
				Peak	2491.920	-36.56	≤-21.20	58.64	≤74	PASS
				Peak	2500.000	-38.76	≤-21.20	56.44	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2380.955	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2390.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2310.000	-40.48	≤-21.20	54.72	≤74	PASS
				Peak	2373.920	-38.25	≤-21.20	56.95	≤74	PASS
				Peak	2390.000	-40.48	≤-21.20	54.72	≤74	PASS
		High	2480	AV	2483.500	-47.86	≤-41.20	47.34	≤54	PASS
				AV	2483.520	-47.86	≤-41.20	47.34	≤54	PASS
				AV	2500.000	-48.07	≤-41.20	47.13	≤54	PASS
				Peak	2483.500	-40.69	≤-21.20	54.51	≤74	PASS
				Peak	2484.560	-37.87	≤-21.20	57.33	≤74	PASS
				Peak	2500.000	-39.69	≤-21.20	55.51	≤74	PASS

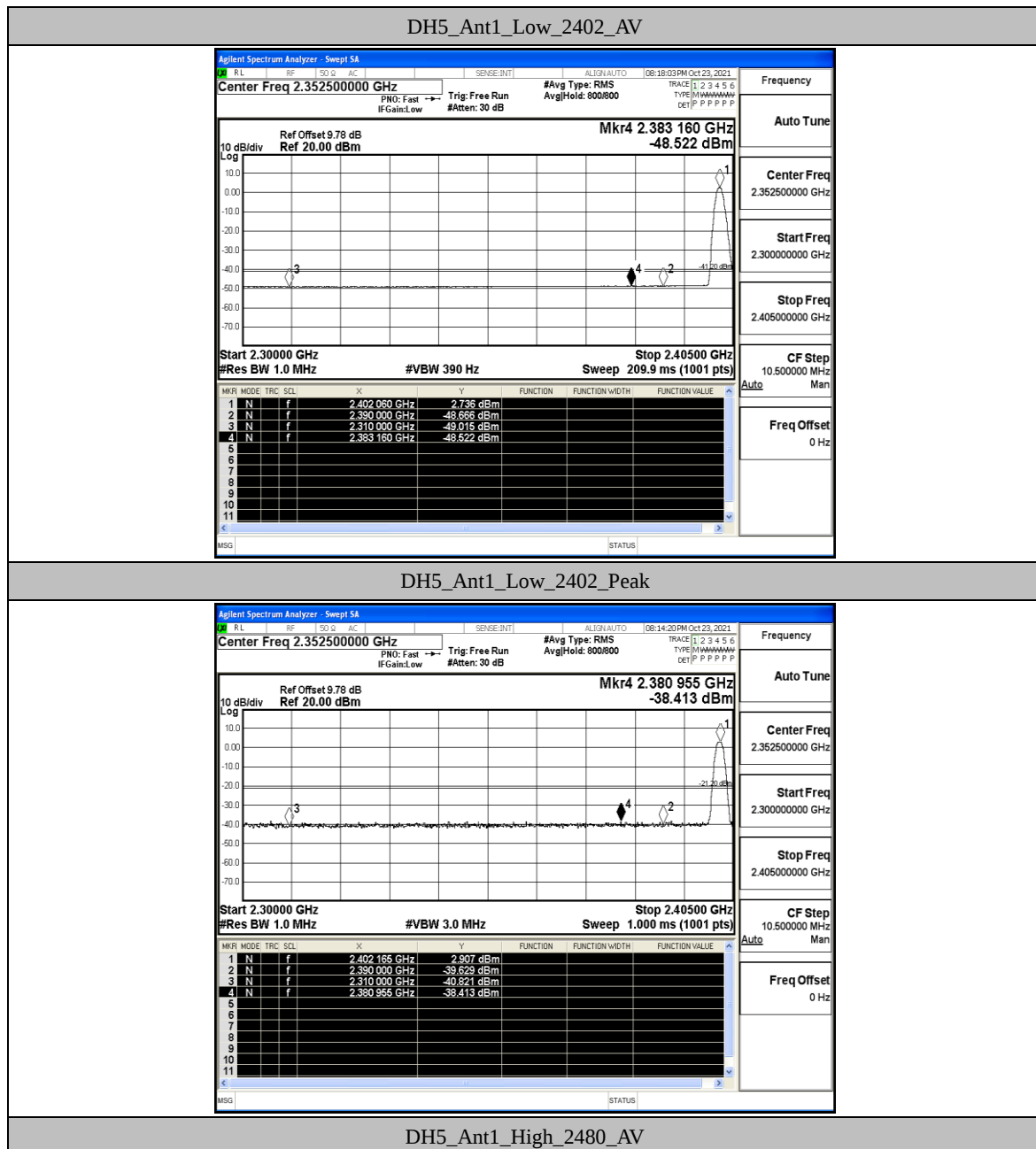


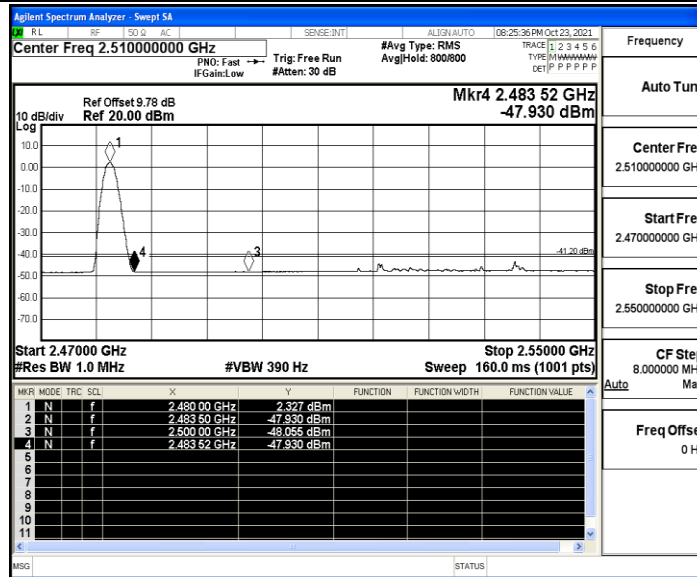
Note:

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.

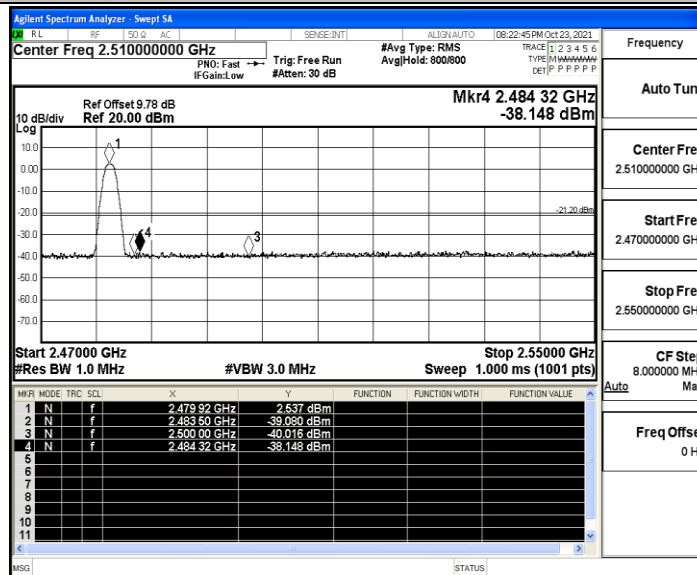


Test Graphs

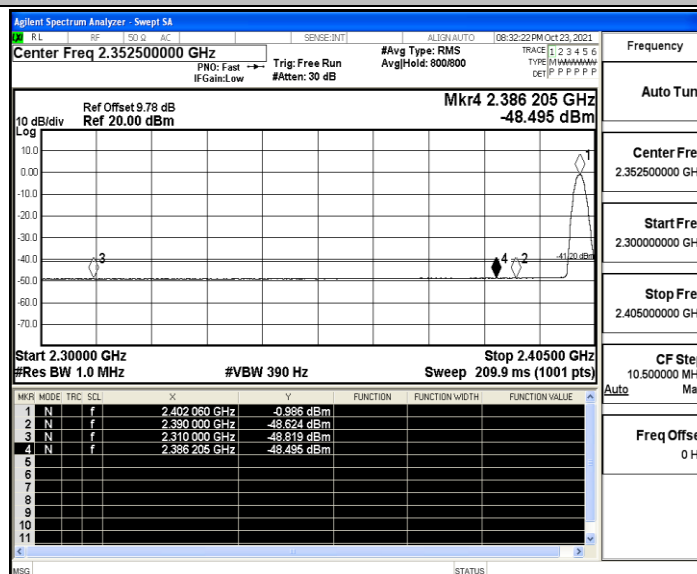




DH5_Ant1_High_2480_Peak

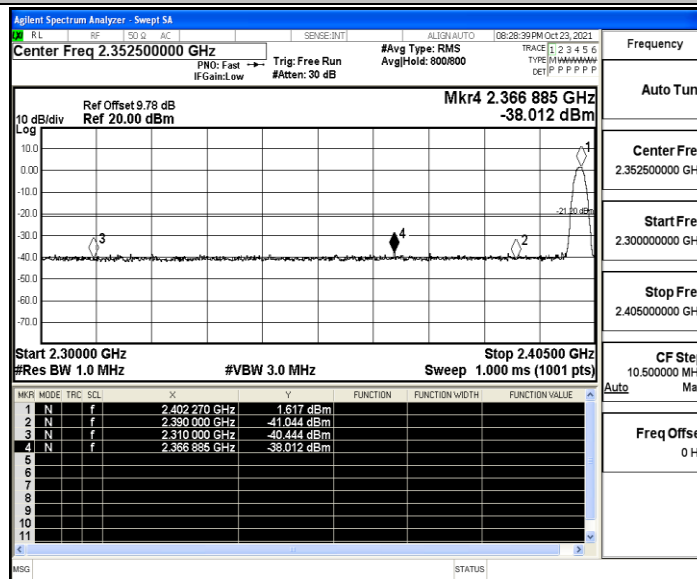


2DH5_Ant1_Low_2402_AV

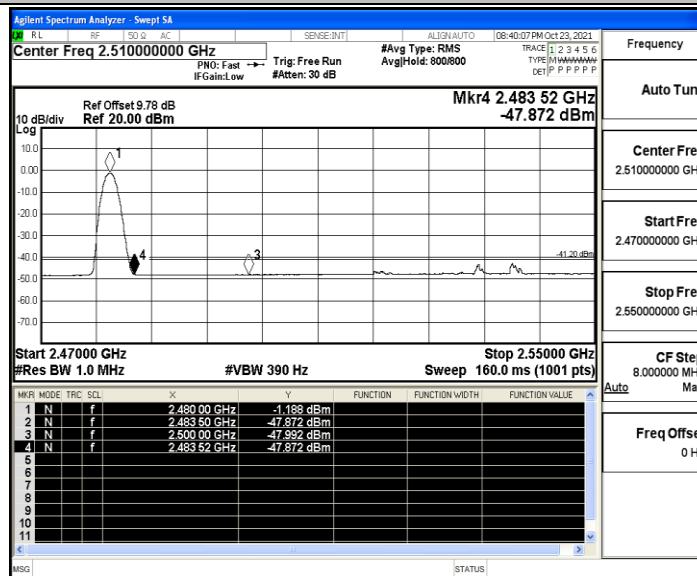




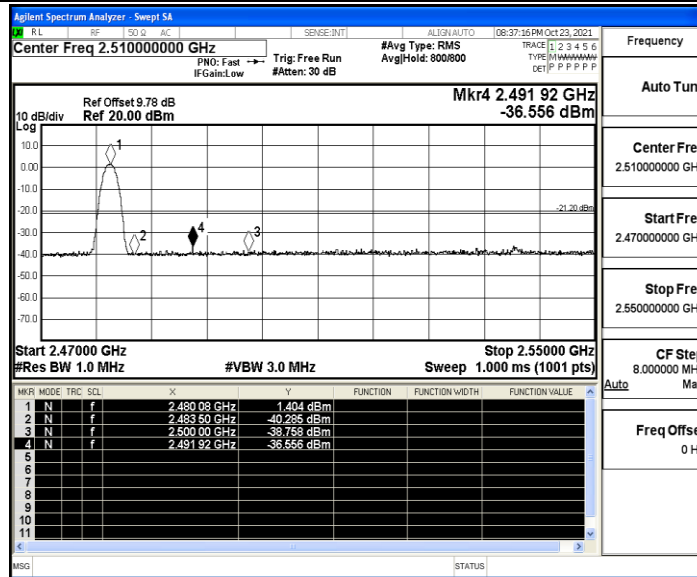
2DH5_Ant1_Low_2402_Peak



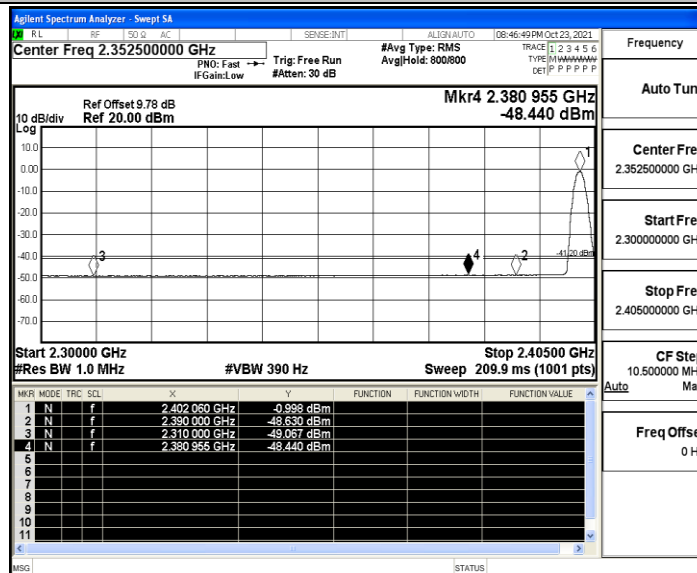
2DH5_Ant1_High_2480_AV



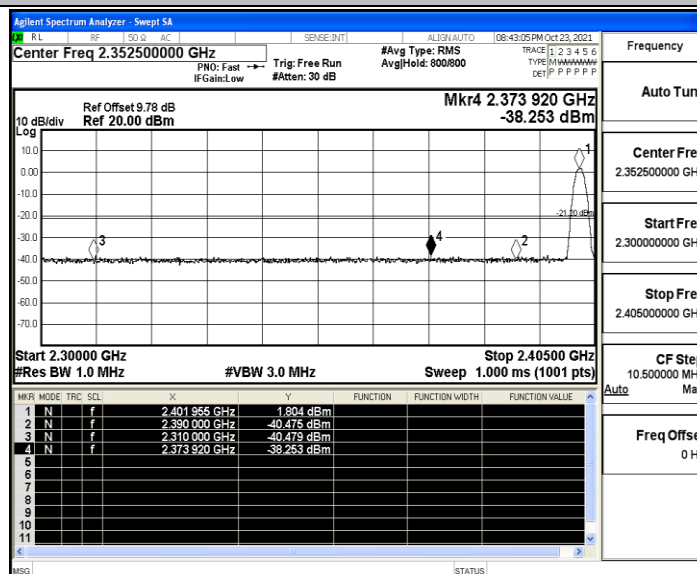
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

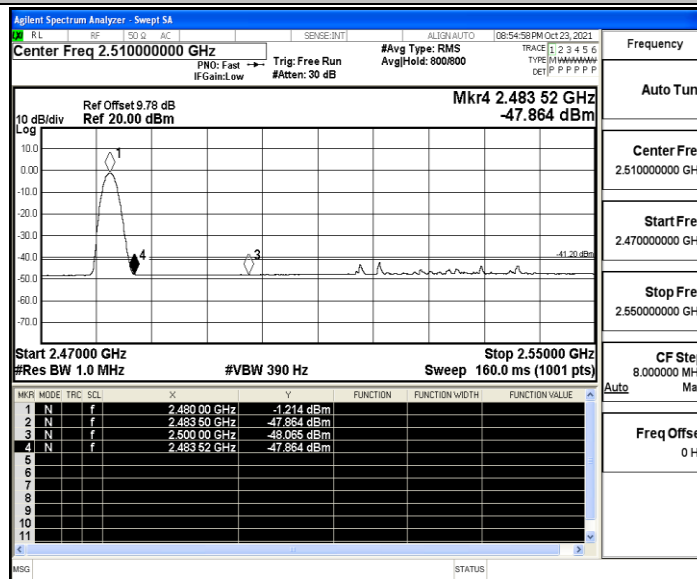


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

