



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Treadmill

Test Model: TT-300

Environmental Conditions

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



A.1 20dB Emission Bandwidth

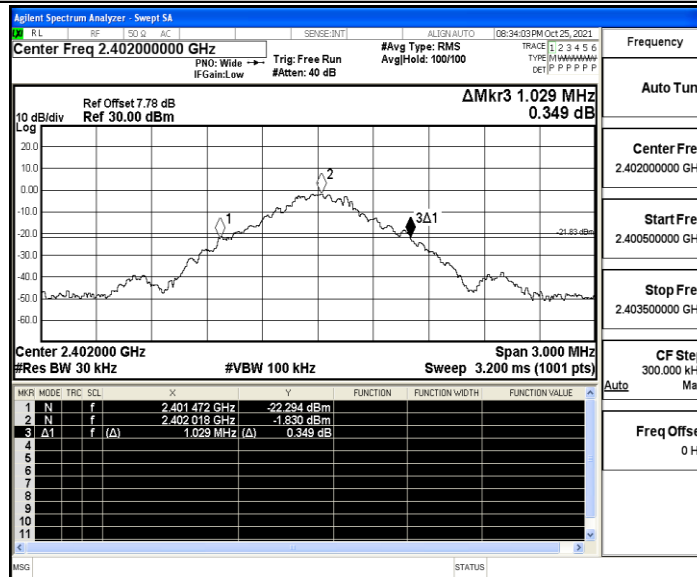
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.472	2402.501	---	PASS
		2441	0.957	2440.538	2441.495	---	PASS
		2480	1.035	2479.469	2480.504	---	PASS
2DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.311	2440.346	2441.657	---	PASS
		2480	1.365	2479.322	2480.687	---	PASS

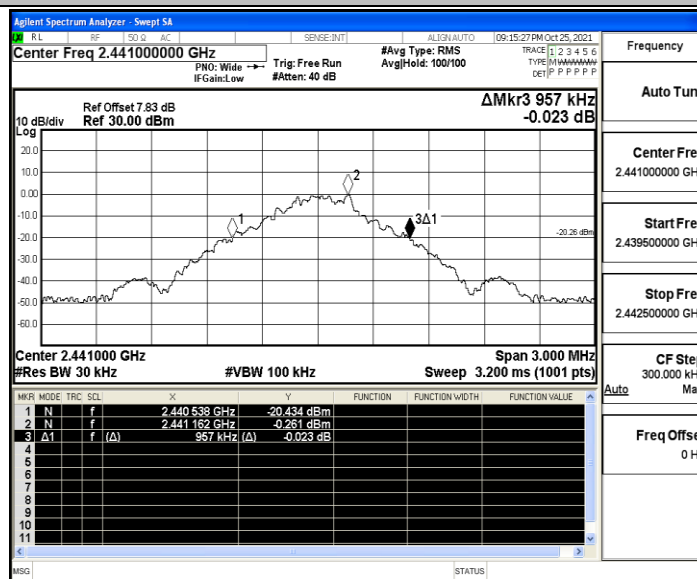


Test Graphs

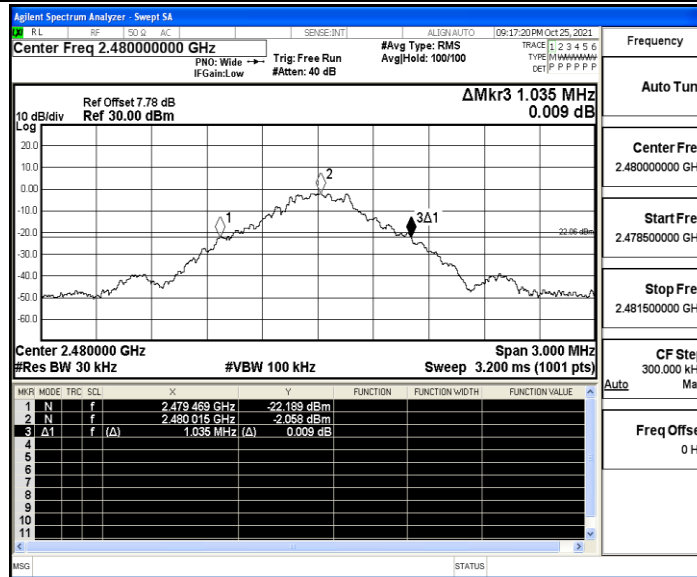
DH5_Ant1_2402



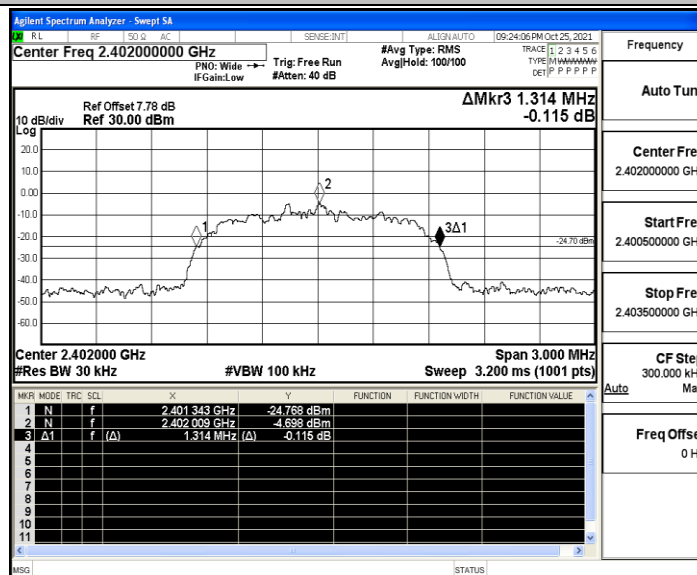
DH5_Ant1_2441



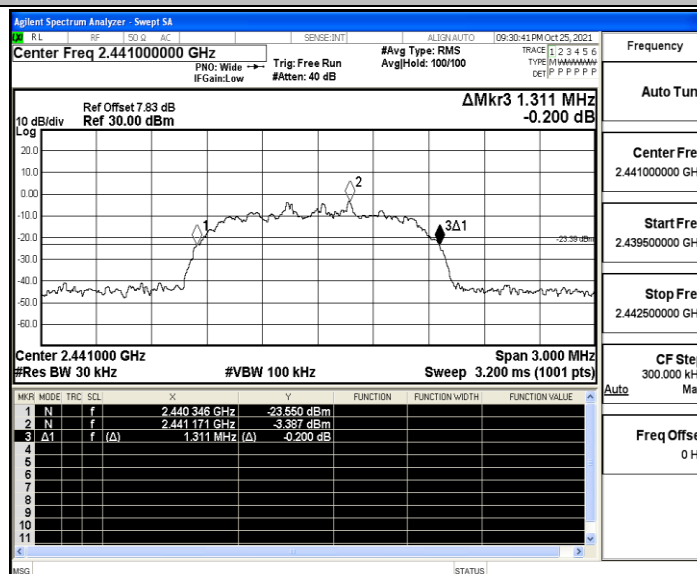
DH5_Ant1_2480



2DH5_Ant1_2402

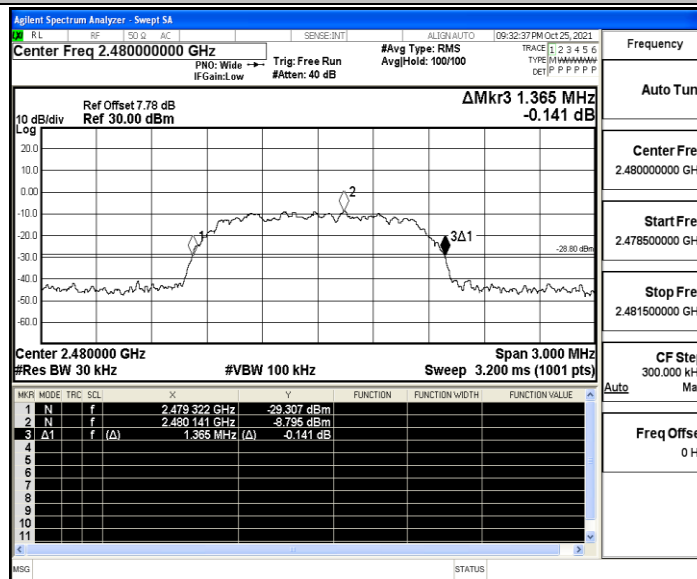


2DH5_Ant1_2441





2DH5_Ant1_2480





A.2 Maximum conducted output power

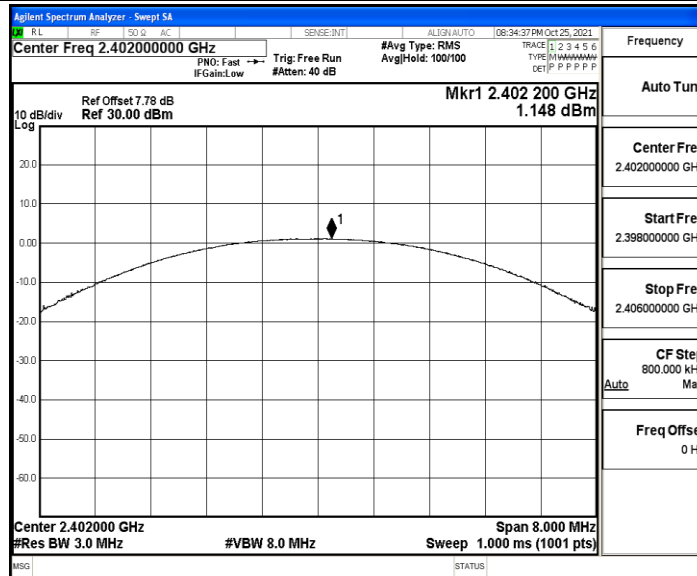
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.15	≤20.97	PASS
		2441	2.35	≤20.97	PASS
		2480	0.93	≤20.97	PASS
2DH5	Ant1	2402	0.24	≤20.97	PASS
		2441	1.44	≤20.97	PASS
		2480	-0.06	≤20.97	PASS

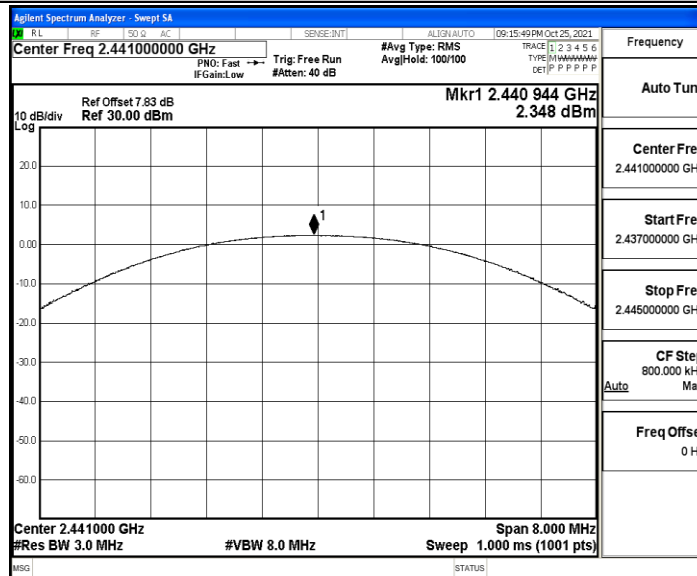


Test Graphs

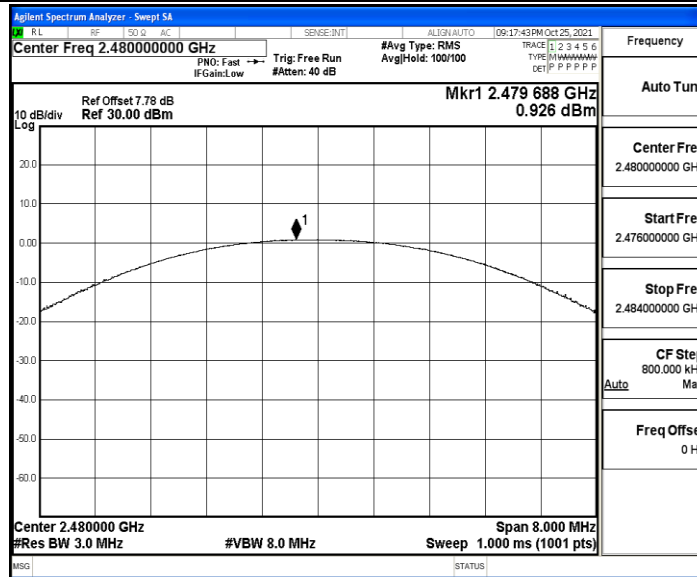
DH5_Ant1_2402



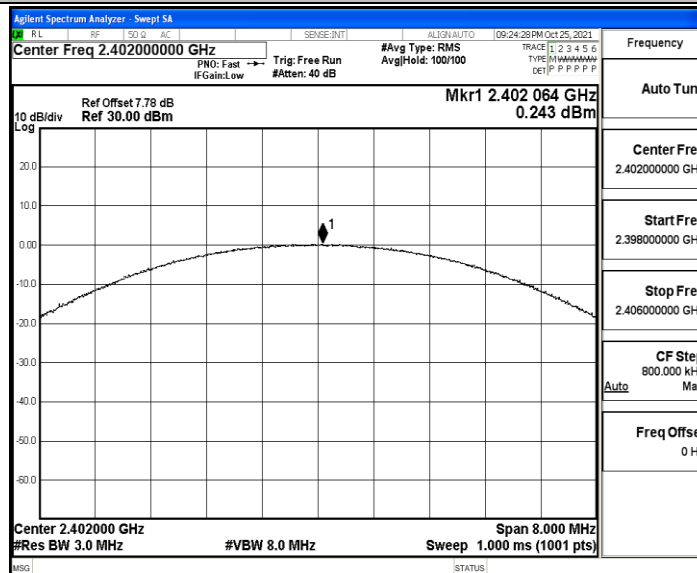
DH5_Ant1_2441



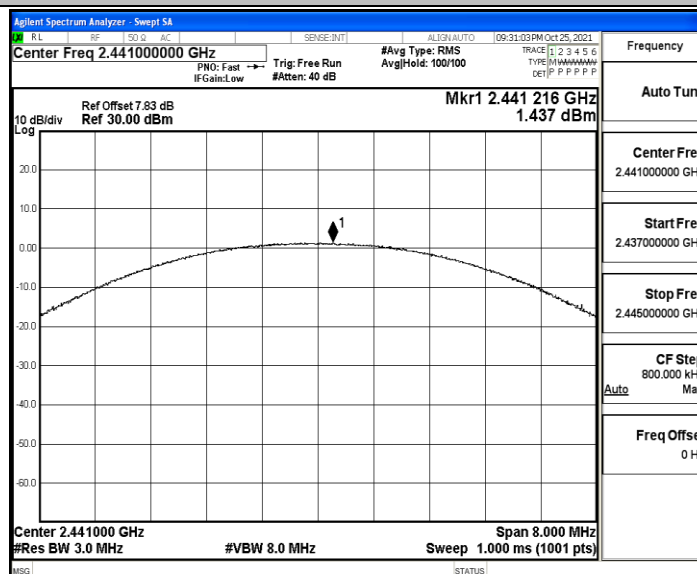
DH5_Ant1_2480



2DH5_Ant1_2402

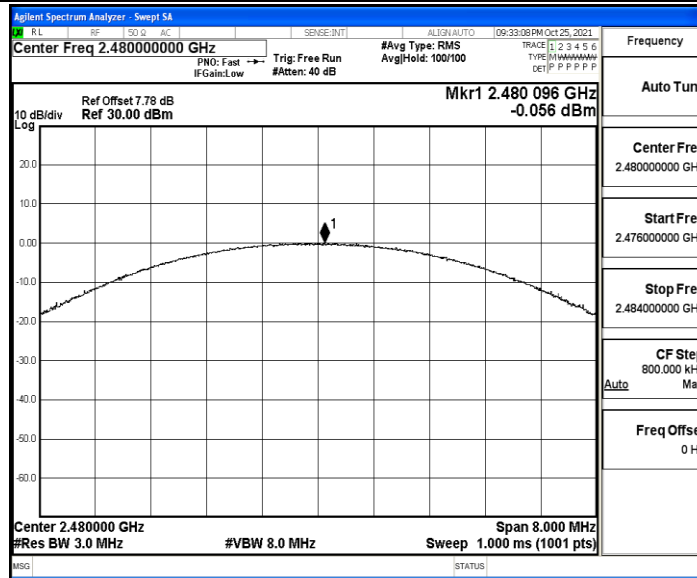


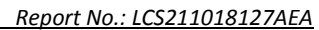
2DH5_Ant1_2441





2DH5_Ant1_2480





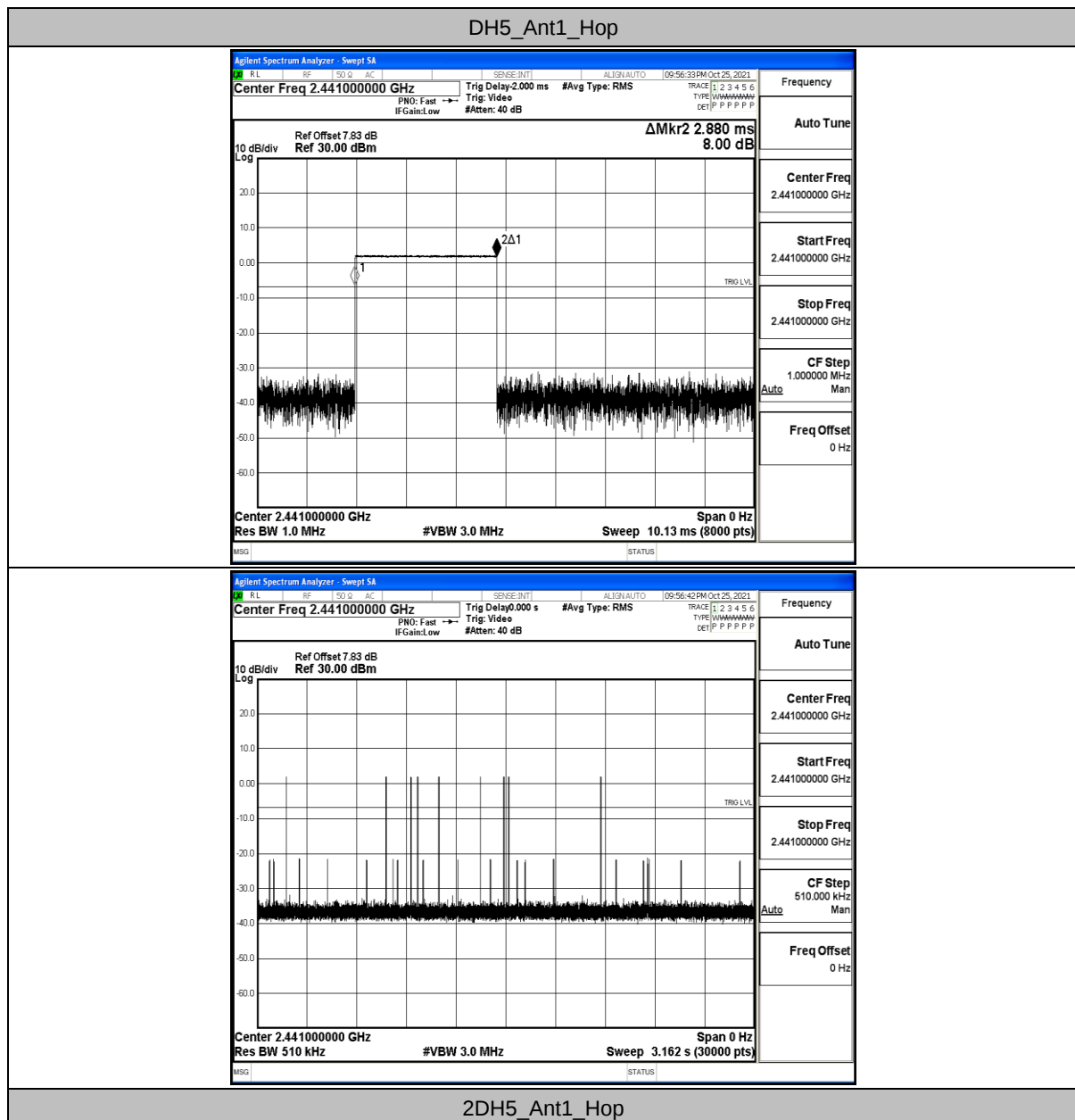


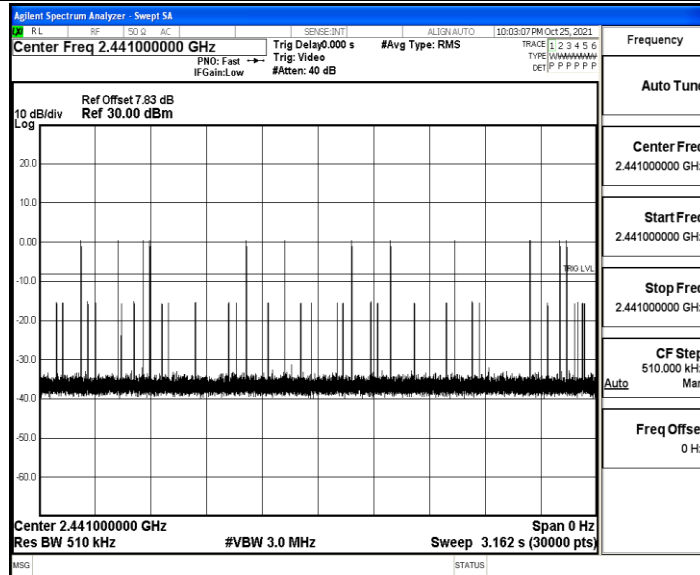
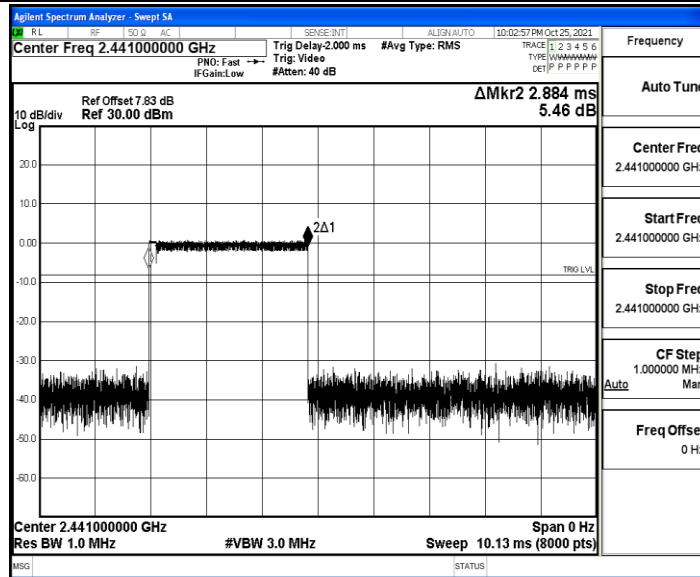
A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.375	≤0.4	PASS

Test Graphs





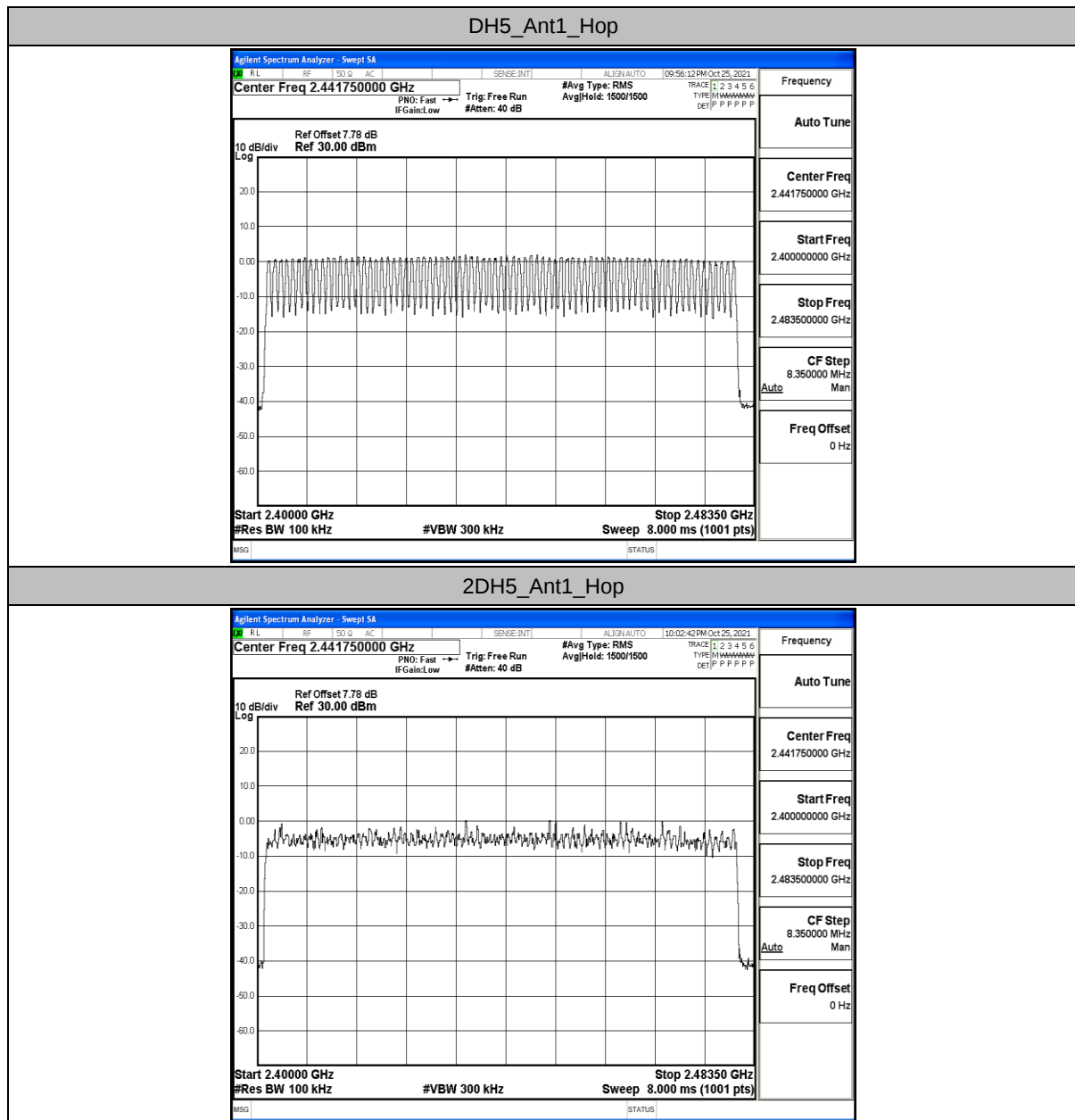


A.5 Number of hopping channels

Test Result

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

Test Graphs





A.6 Band edge measurements

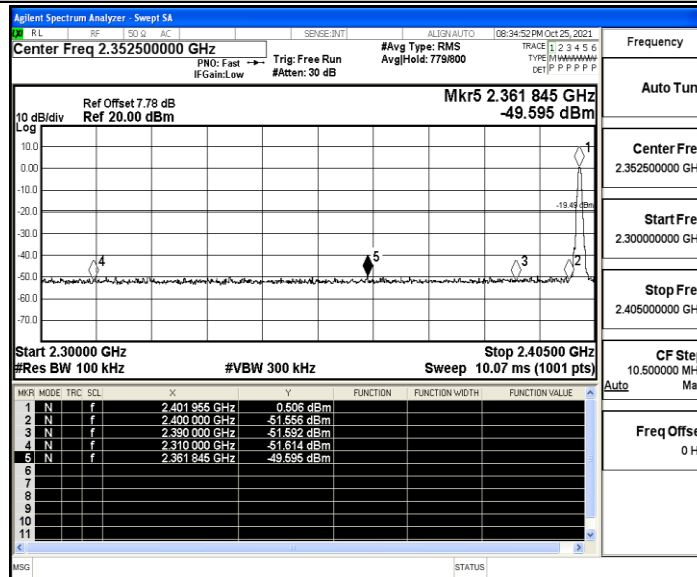
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.51	-49.6	≤ -19.49	PASS
		High	2480	0.49	-48.12	≤ -19.51	PASS
		Low	Hop_2402	1.00	-49.79	≤ -19.01	PASS
		High	Hop_2480	1.06	-47.84	≤ -18.94	PASS
2DH5	Ant1	Low	2402	-1.89	-48.88	≤ -21.89	PASS
		High	2480	-0.89	-48.32	≤ -20.89	PASS
		Low	Hop_2402	-4.10	-50.03	≤ -24.1	PASS
		High	Hop_2480	-0.79	-48.45	≤ -20.79	PASS

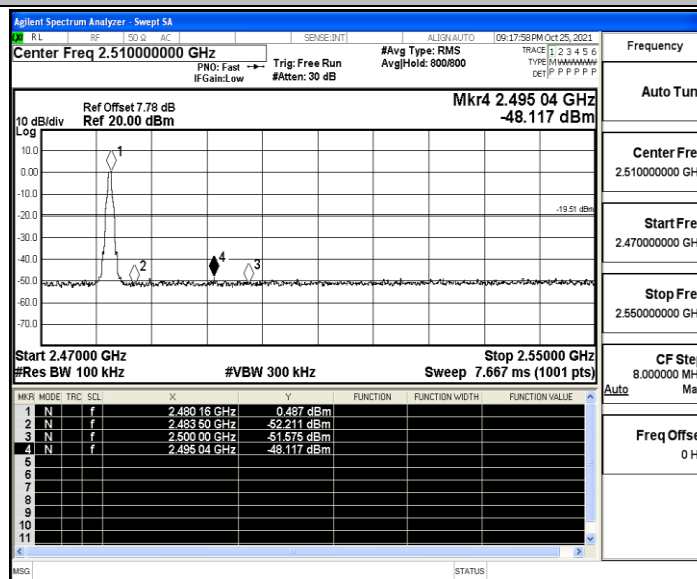


Test Graphs

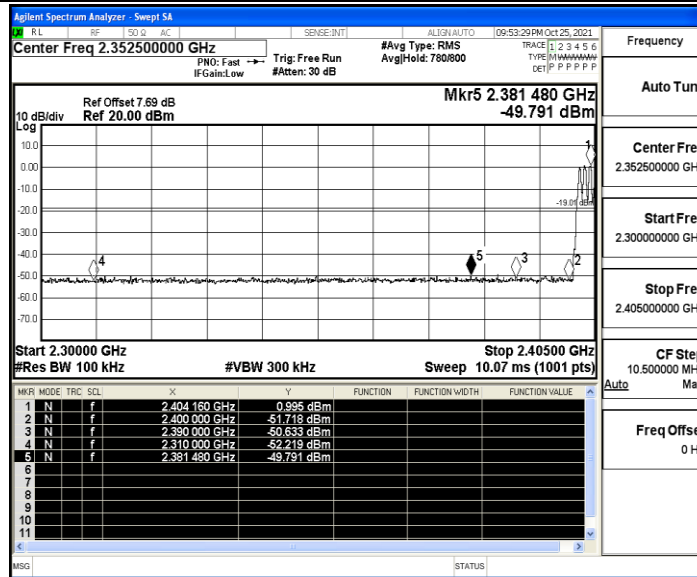
DH5_Ant1_Low_2402



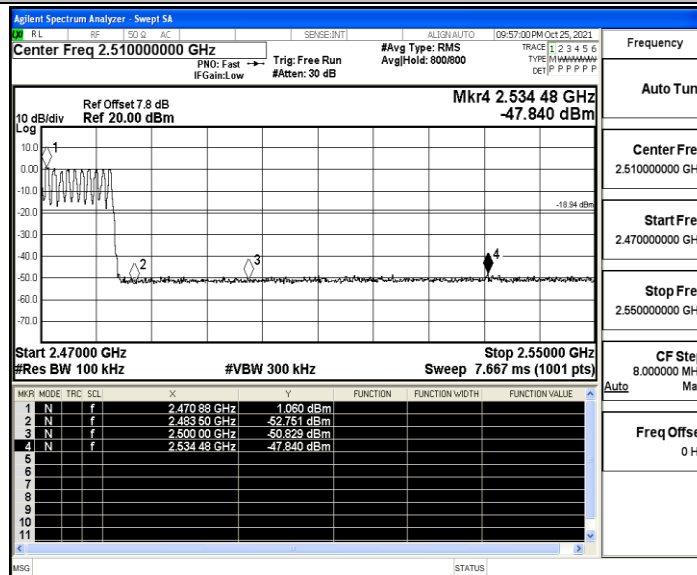
DH5_Ant1_High_2480



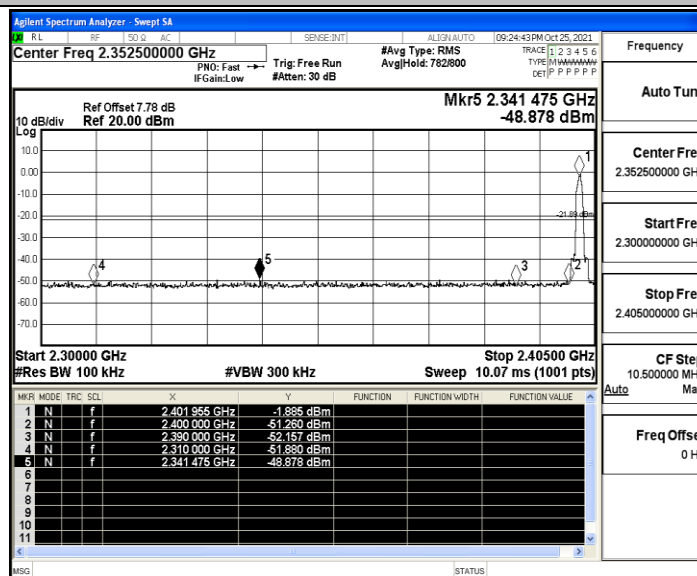
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

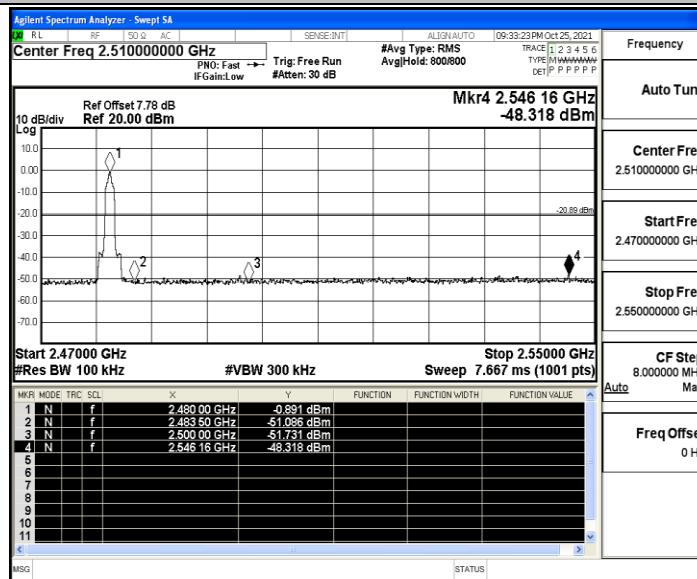


2DH5_Ant1_Low_2402

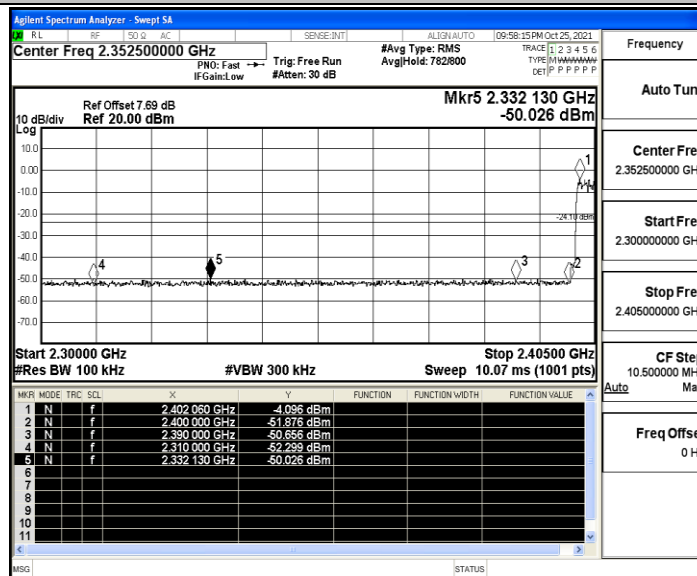




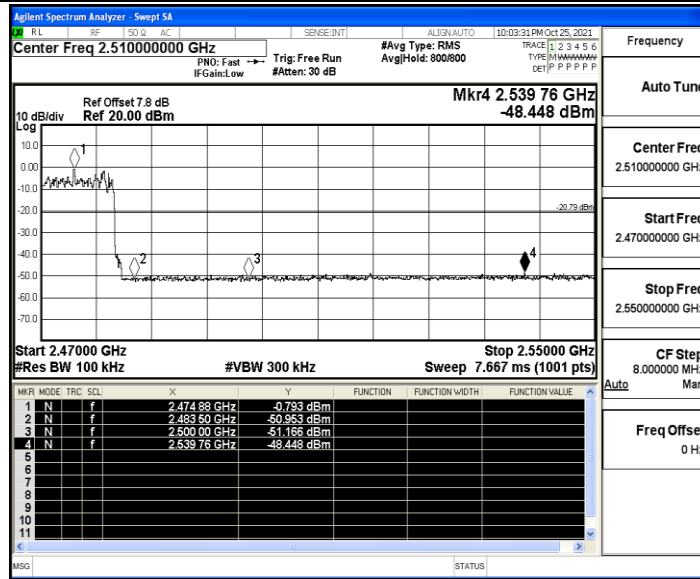
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

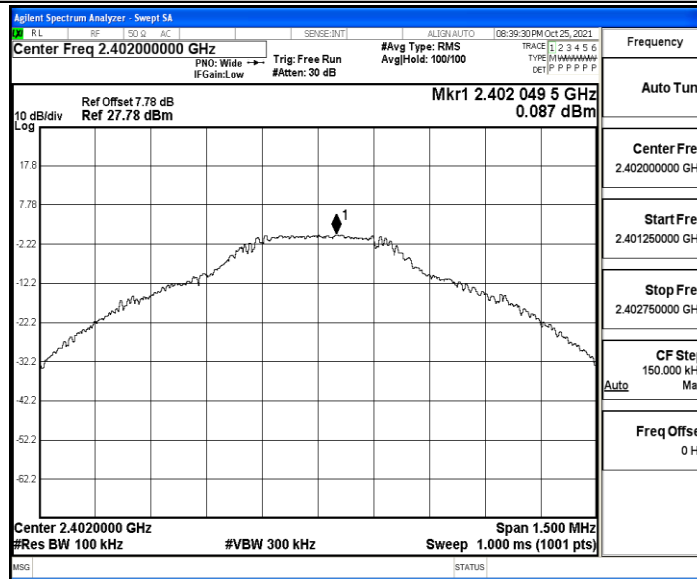
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-61.4	≤ -19.91	PASS
			1000~26500	0.09	-47.47	≤ -19.91	PASS
		2441	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-61	≤ -18.71	PASS
			1000~26500	1.29	-47.72	≤ -18.71	PASS
		2480	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-61.08	≤ -20.12	PASS
			1000~26500	-0.12	-46.84	≤ -20.12	PASS
2DH5	Ant1	2402	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-61.63	≤ -20.84	PASS
			1000~26500	-0.84	-47.34	≤ -20.84	PASS
		2441	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-62.15	≤ -20.15	PASS
			1000~26500	-0.15	-47.01	≤ -20.15	PASS
		2480	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-62.41	≤ -21.49	PASS
			1000~26500	-1.49	-46.3	≤ -21.49	PASS

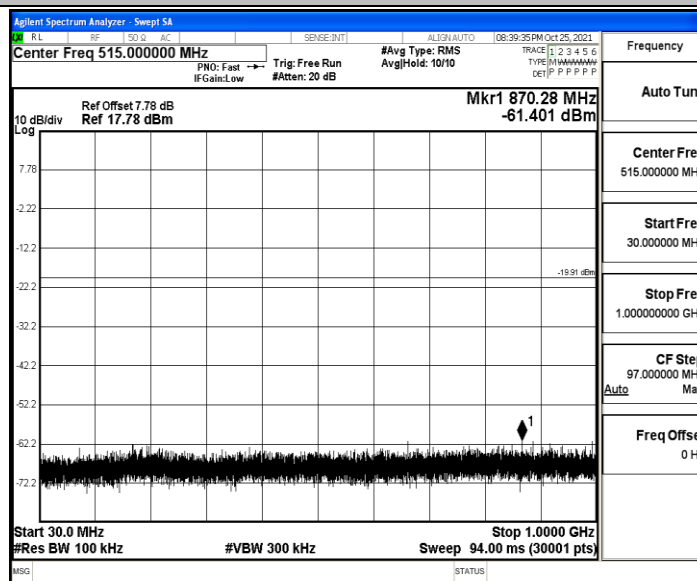


Test Graphs

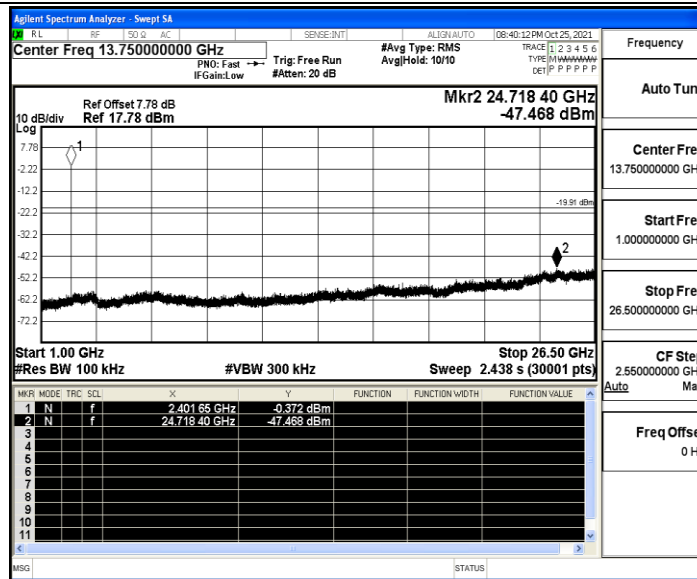
DH5_Ant1_2402_0~Reference



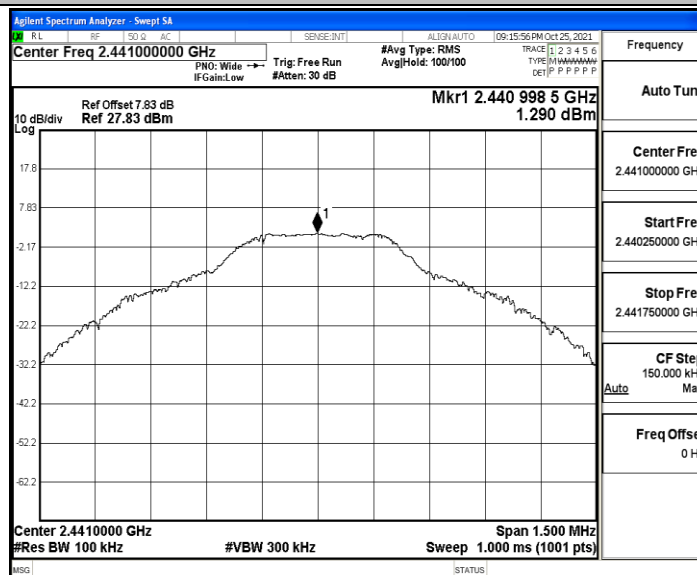
DH5_Ant1_2402_30~1000



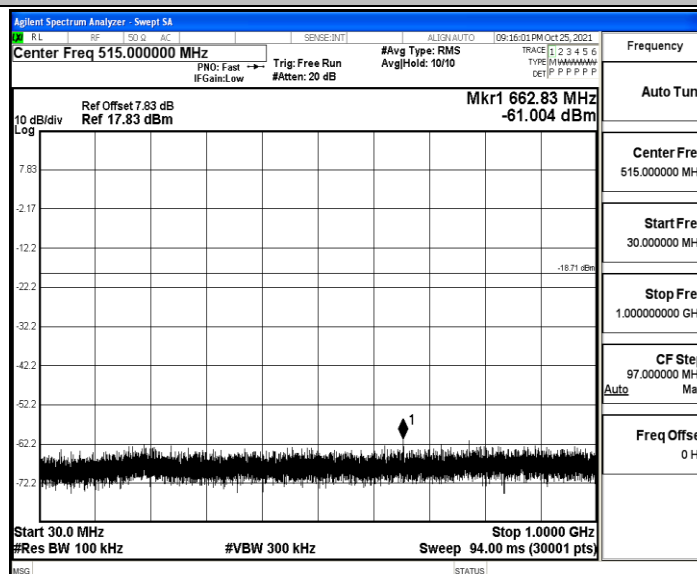
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0-Reference

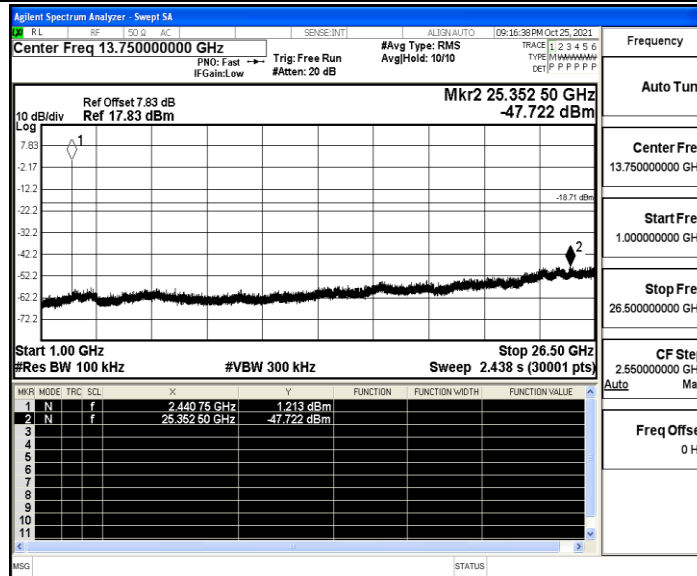


DH5_Ant1_2441_30~1000

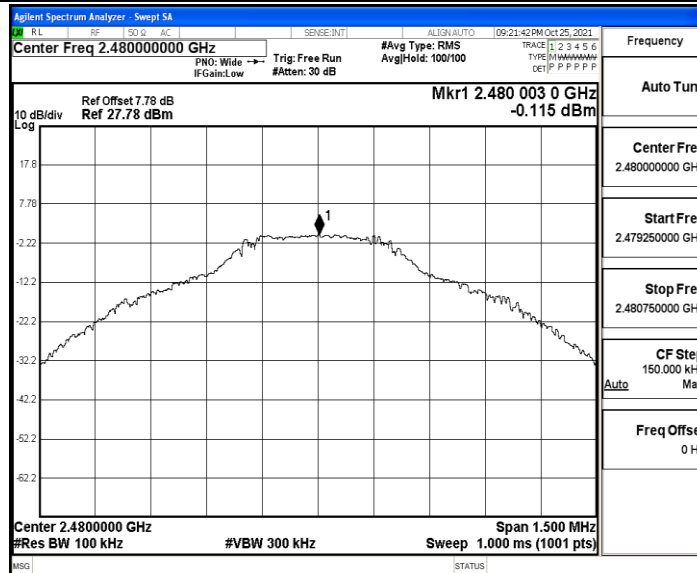




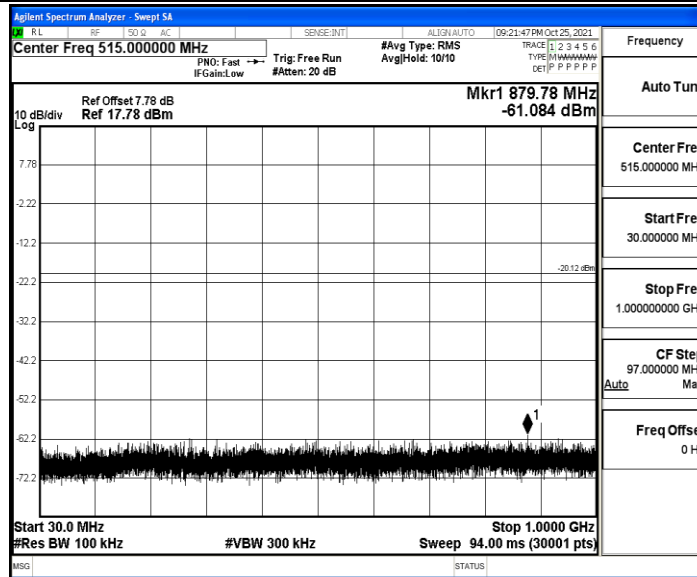
DH5_Ant1_2441_1000~26500



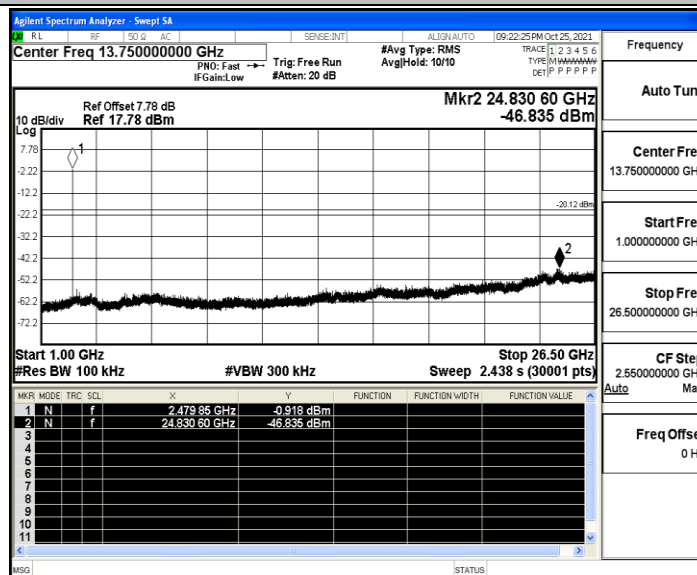
DH5_Ant1_2480_0~Reference



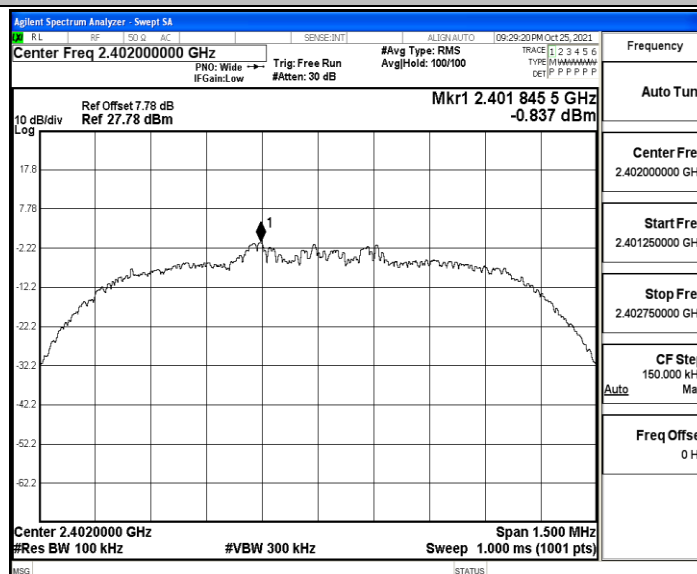
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

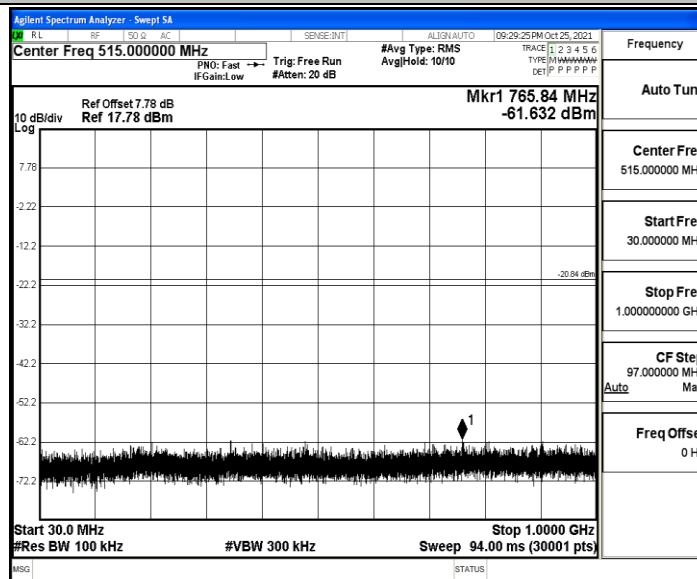


2DH5_Ant1_2402_0~Reference

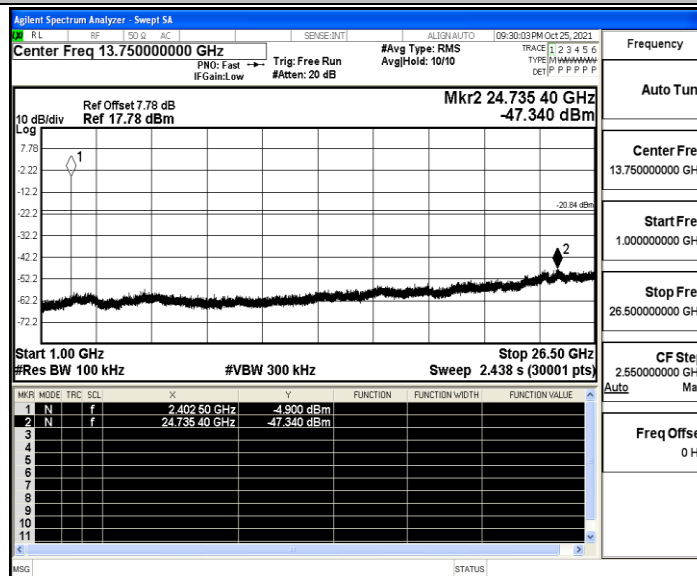




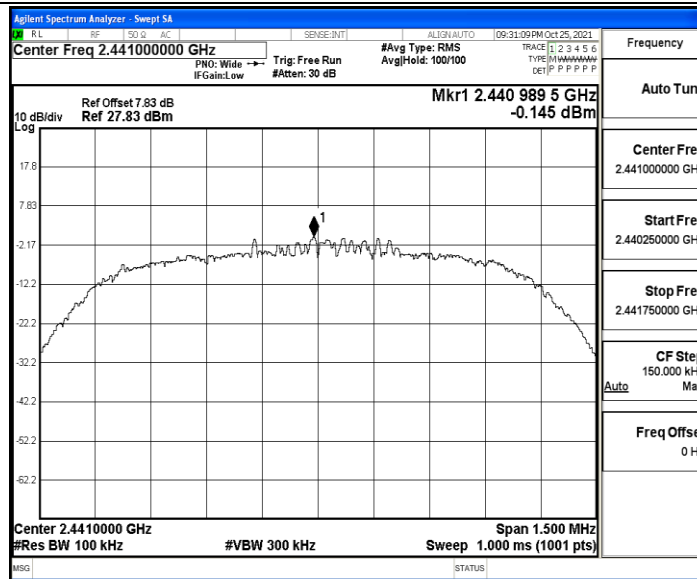
2DH5_Ant1_2402_30~1000



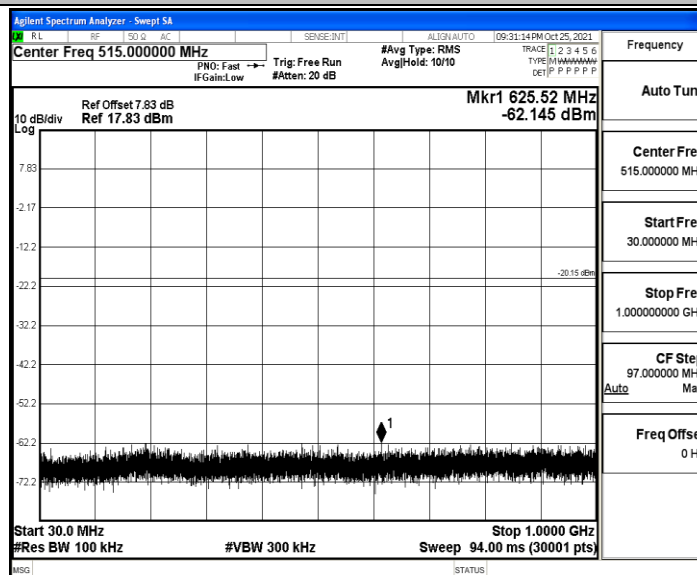
2DH5_Ant1_2402_1000~26500



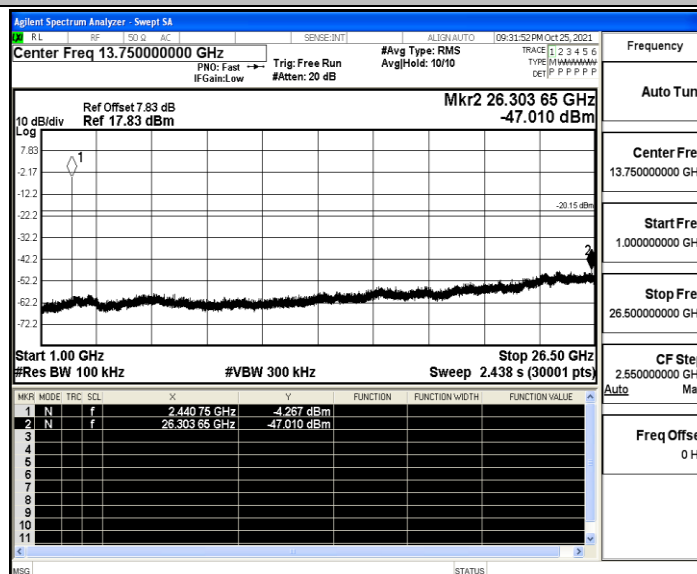
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

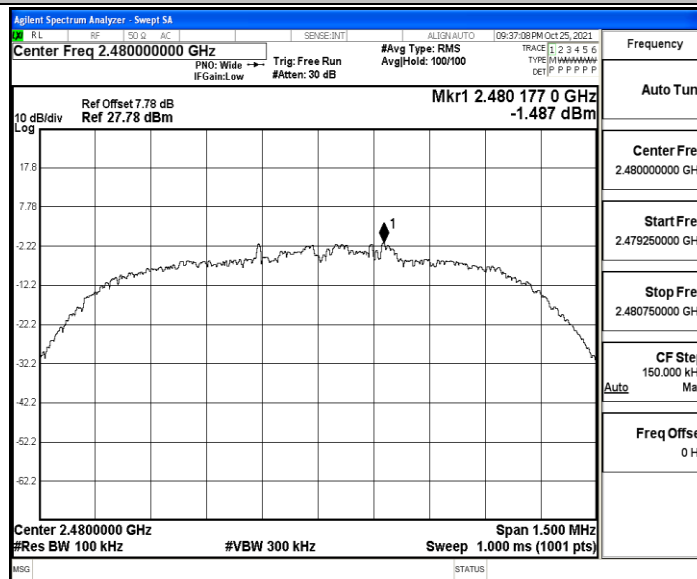


2DH5_Ant1_2441_1000~26500

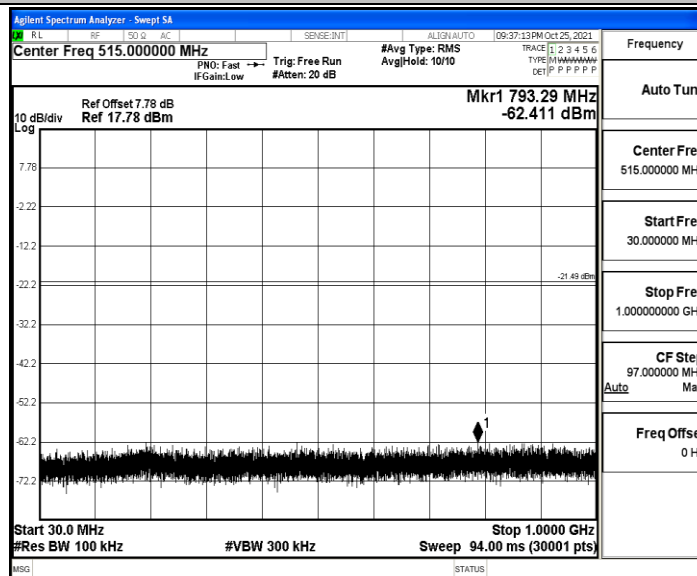




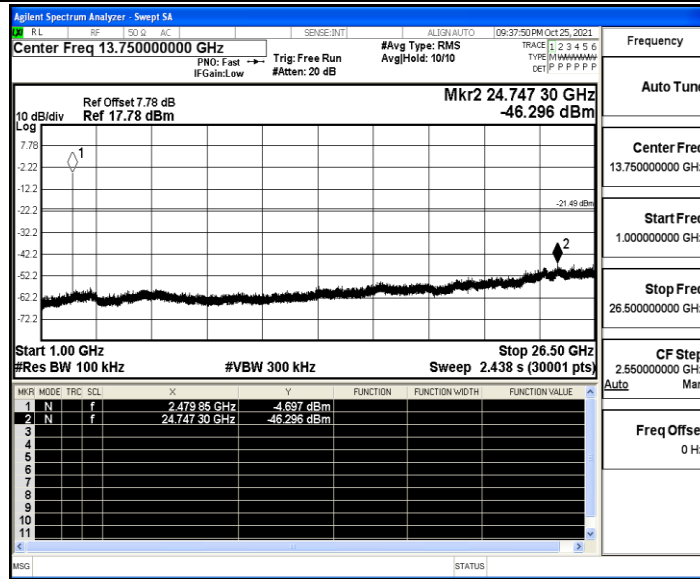
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500





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	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2388.305	-48.46	≤-41.20	46.74	≤54	PASS
				AV	2390.000	-48.55	≤-41.20	46.65	≤54	PASS
				Peak	2310.000	-40.01	≤-21.20	55.19	≤74	PASS
				Peak	2338.115	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2390.000	-40.12	≤-21.20	55.08	≤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	-40.77	≤-21.20	54.43	≤74	PASS
				Peak	2490.960	-37.42	≤-21.20	57.78	≤74	PASS
				Peak	2500.000	-38.8	≤-21.20	56.40	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.26	≤-21.20	53.94	≤74	PASS
				Peak	2340.005	-37.93	≤-21.20	57.27	≤74	PASS
				Peak	2390.000	-39.51	≤-21.20	55.69	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.16	≤-21.20	56.04	≤74	PASS
				Peak	2490.560	-37.45	≤-21.20	57.75	≤74	PASS
				Peak	2500.000	-39.81	≤-21.20	55.39	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2384.105	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2390.000	-48.53	≤-41.20	46.67	≤54	PASS
				Peak	2310.000	-41.07	≤-21.20	54.13	≤74	PASS
				Peak	2324.150	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	2390.000	-40.35	≤-21.20	54.85	≤74	PASS
		High	2480	AV	2483.500	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2497.680	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2500.000	-47.94	≤-41.20	47.26	≤54	PASS
				Peak	2483.500	-39.1	≤-21.20	56.10	≤74	PASS
				Peak	2498.000	-36.95	≤-21.20	58.25	≤74	PASS
				Peak	2500.000	-39.76	≤-21.20	55.44	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-38.59	≤-21.20	56.61	≤74	PASS
				Peak	2378.435	-37.62	≤-21.20	57.58	≤74	PASS
				Peak	2390.000	-39.85	≤-21.20	55.35	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.25	≤-21.20	54.95	≤74	PASS
				Peak	2498.160	-37.84	≤-21.20	57.36	≤74	PASS



				Peak	2500.000	-38.99	≤-21.20	56.21	≤74	PASS
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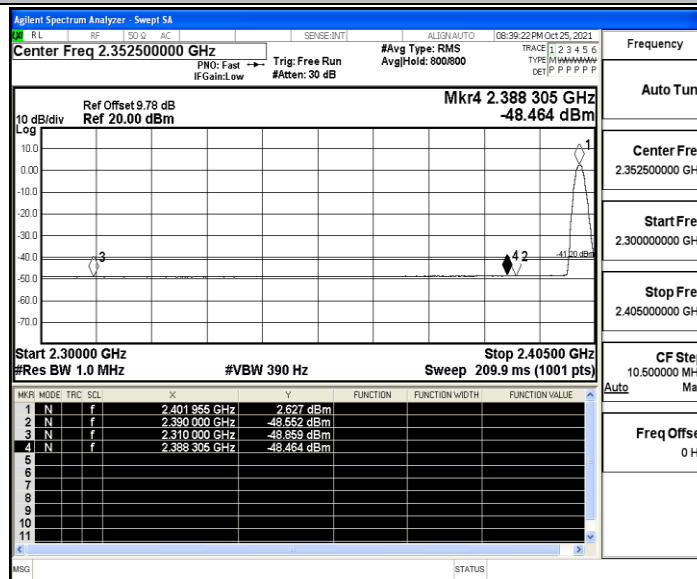
Note:

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.

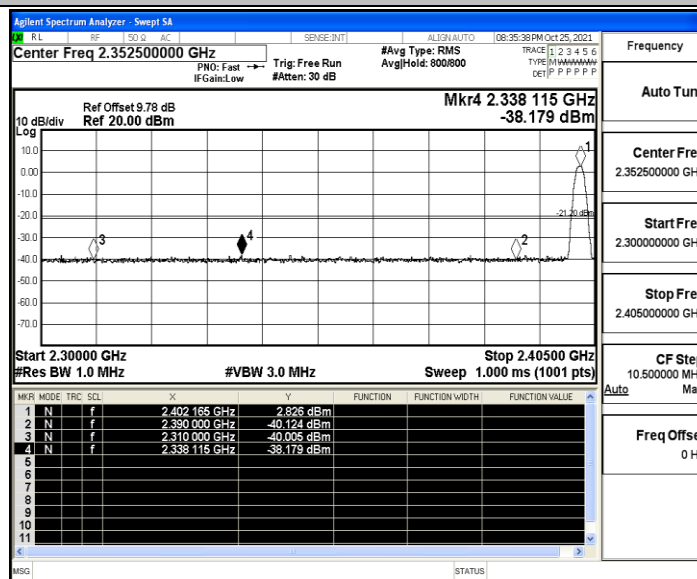


Test Graphs

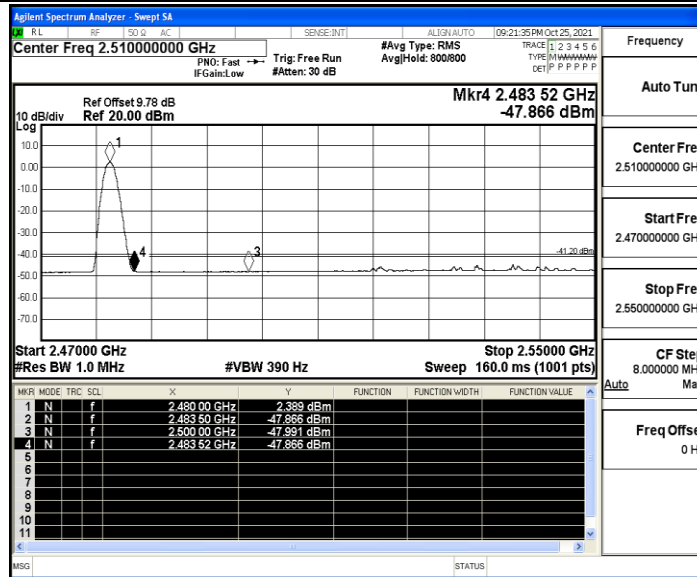
DH5_Ant1_Low_2402_AV



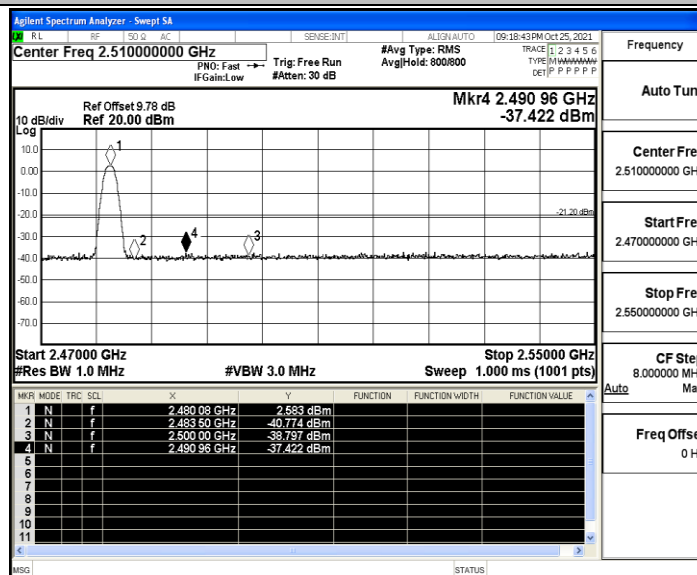
DH5_Ant1_Low_2402_Peak



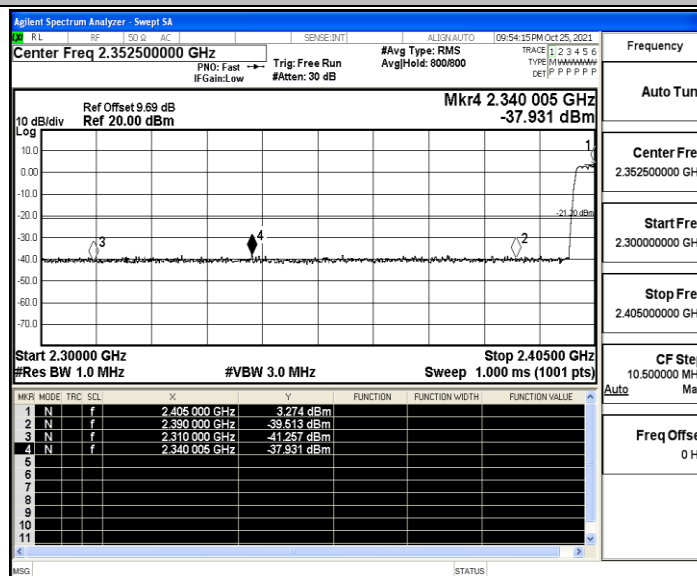
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

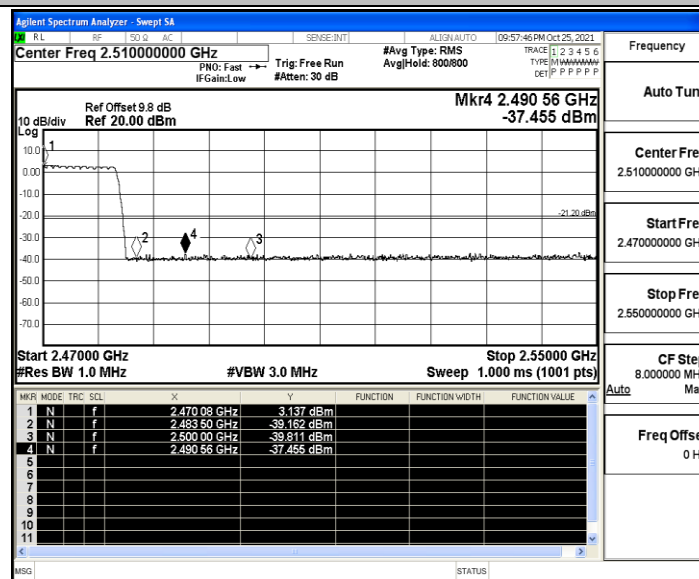


DH5_Ant1_Low_Hop_2402_Peak

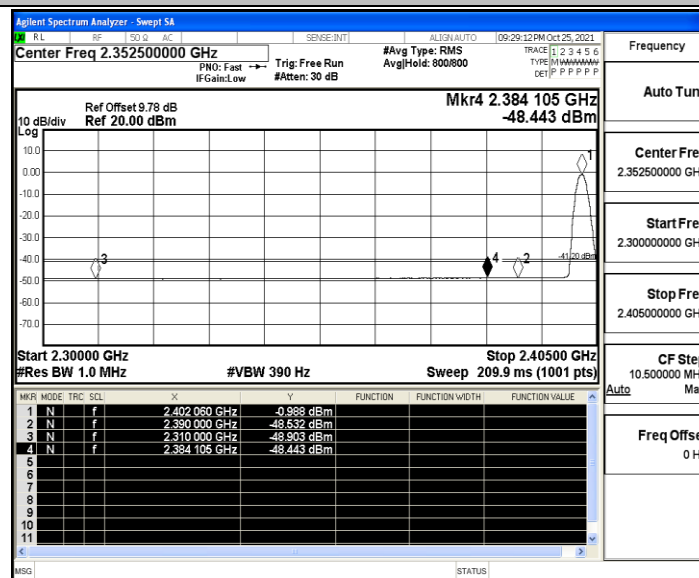




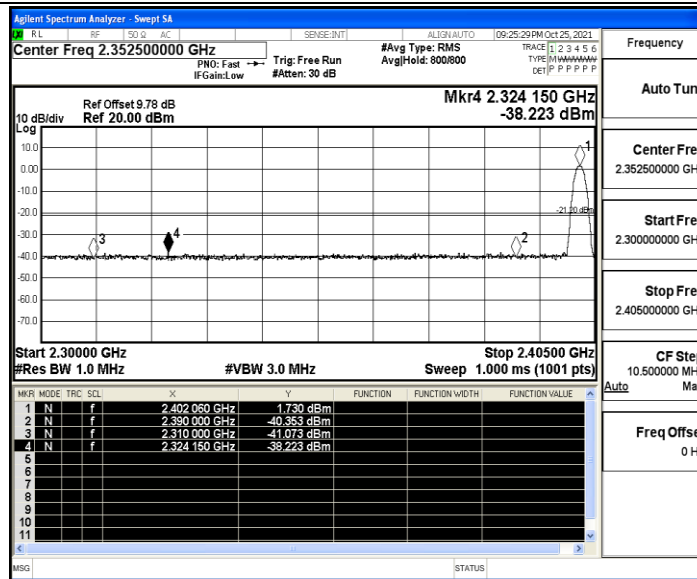
DH5_Ant1_High_Hop_2480_Peak



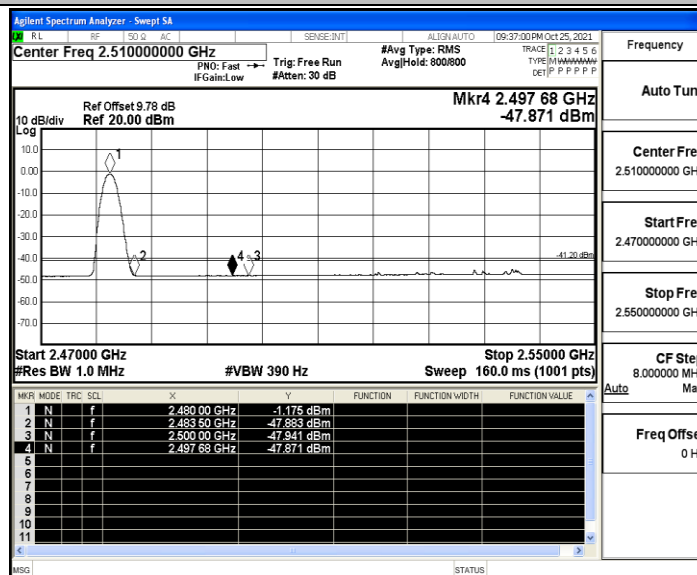
2DH5_Ant1_Low_2402_AV



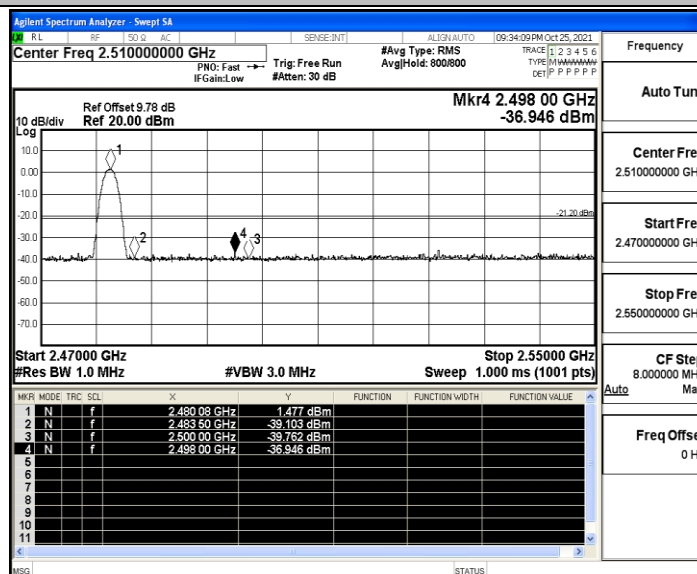
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

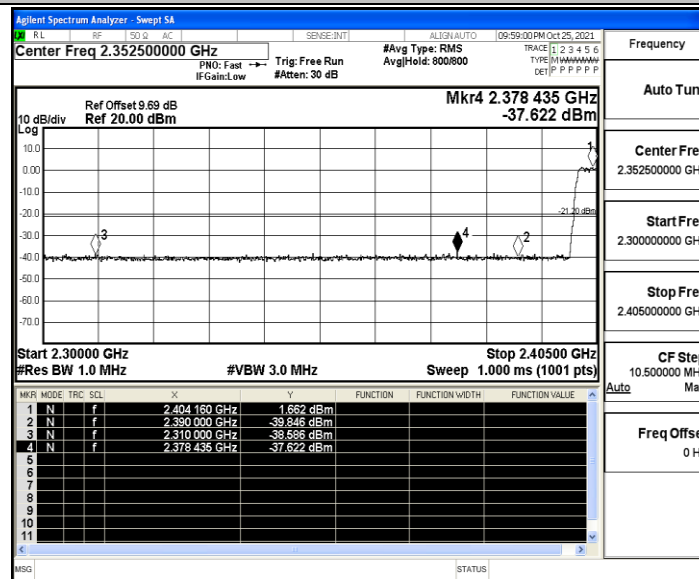


2DH5_Ant1_High_2480_Peak





2DH5_Ant1_Low_Hop_2402_Peak



2DH5_Ant1_High_Hop_2480_Peak

