



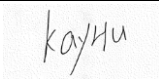
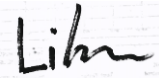
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 9 INCH PROTABLE DVD/CD PLAYER

Test Model: HJ09JRB01

Environmental Conditions

Temperature:	23.4° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	



A.1 20dB Emission Bandwidth

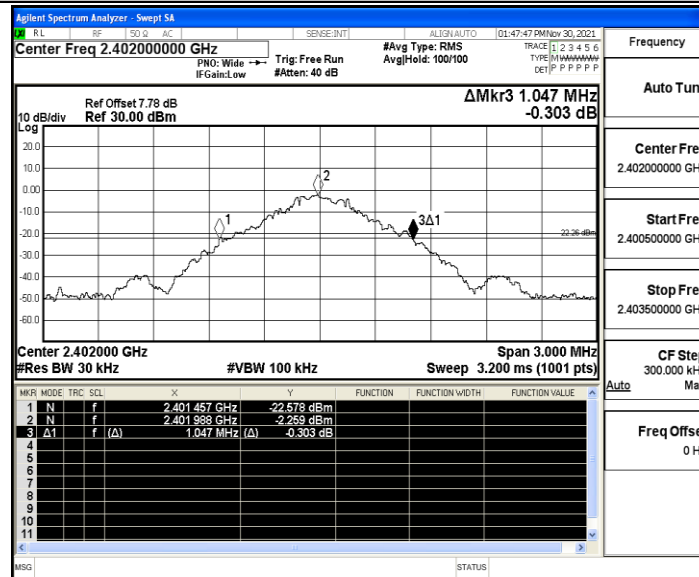
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.047	2401.457	2402.504	---	PASS
		2441	1.029	2440.463	2441.492	---	PASS
		2480	1.014	2479.472	2480.486	---	PASS
2DH5	Ant1	2402	1.284	2401.367	2402.651	---	PASS
		2441	1.311	2440.343	2441.654	---	PASS
		2480	1.332	2479.328	2480.660	---	PASS
3DH5	Ant1	2402	1.305	2401.340	2402.645	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.338	2479.325	2480.663	---	PASS

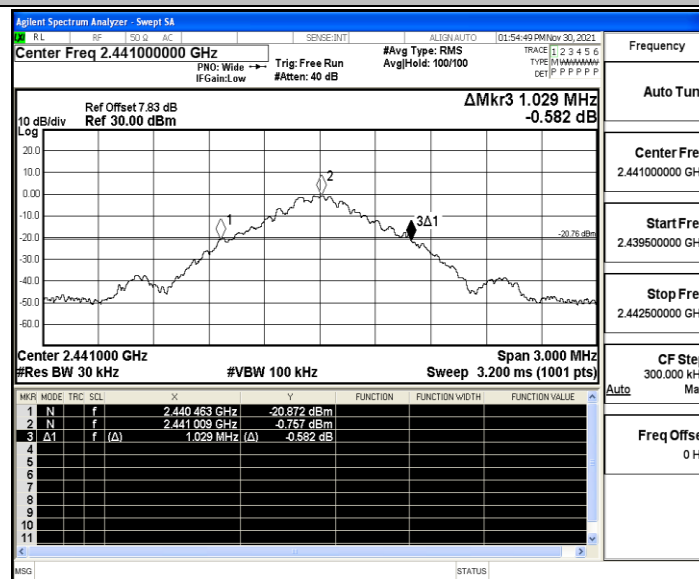


Test Graphs

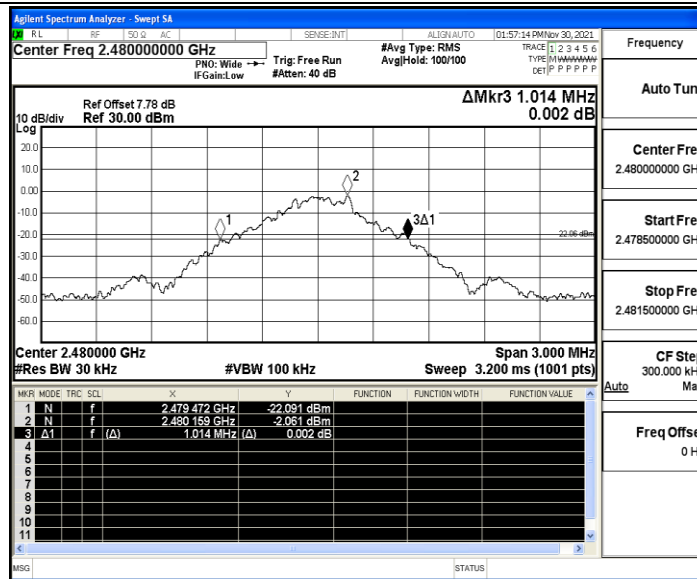
DH5_Ant1_2402



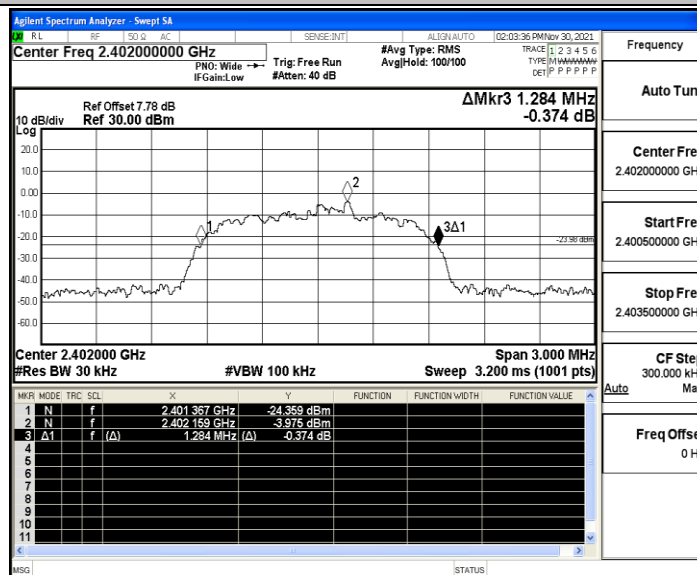
DH5_Ant1_2441



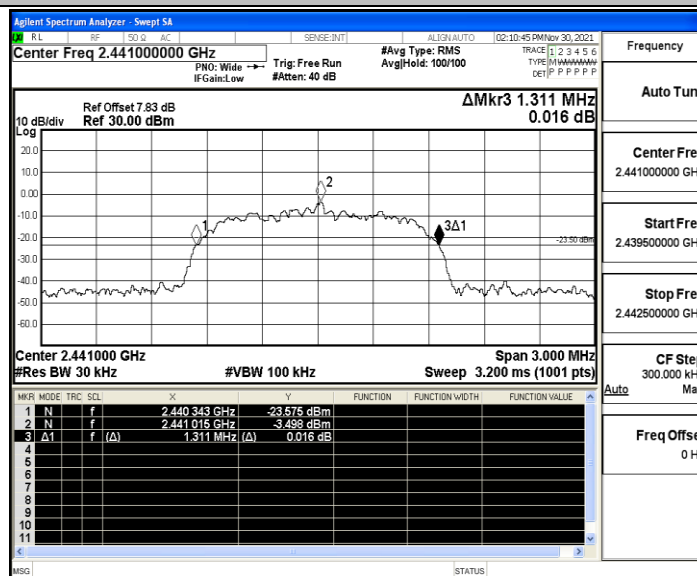
DH5_Ant1_2480



2DH5_Ant1_2402

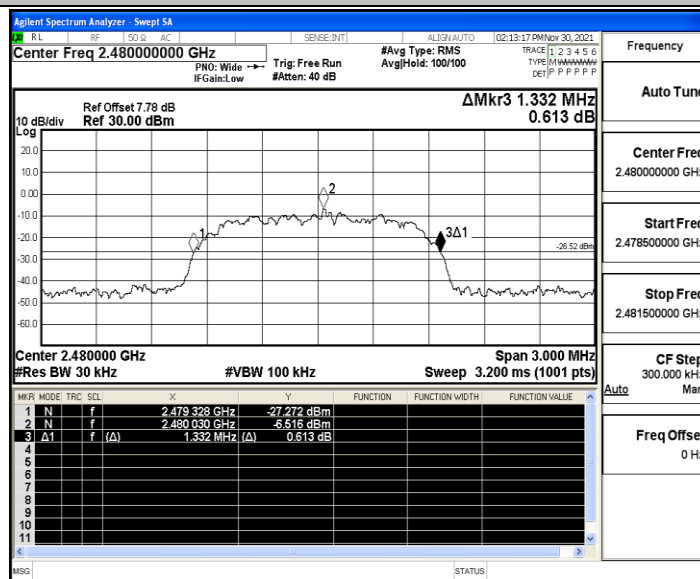


2DH5_Ant1_2441

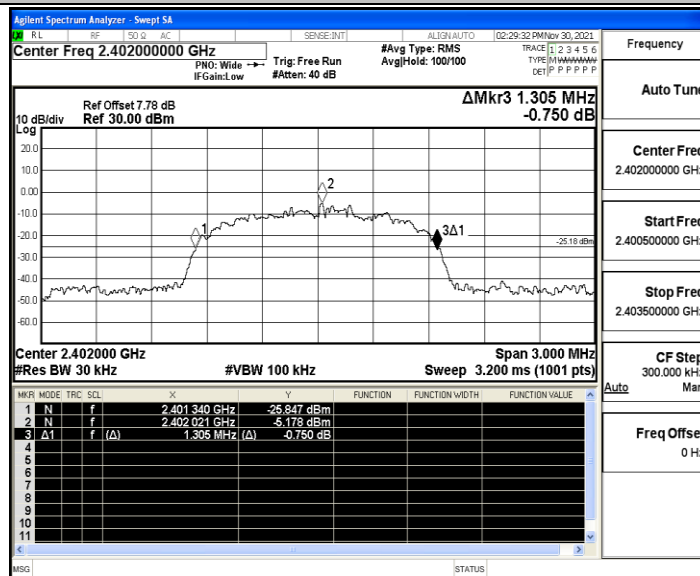




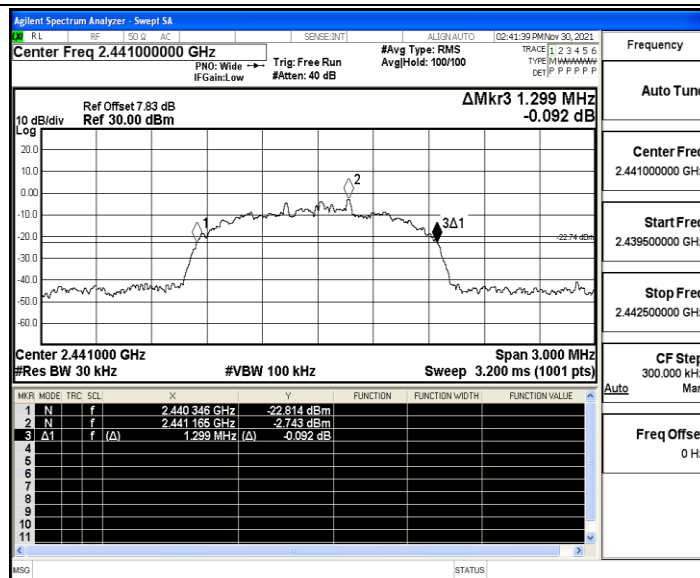
2DH5_Ant1_2480



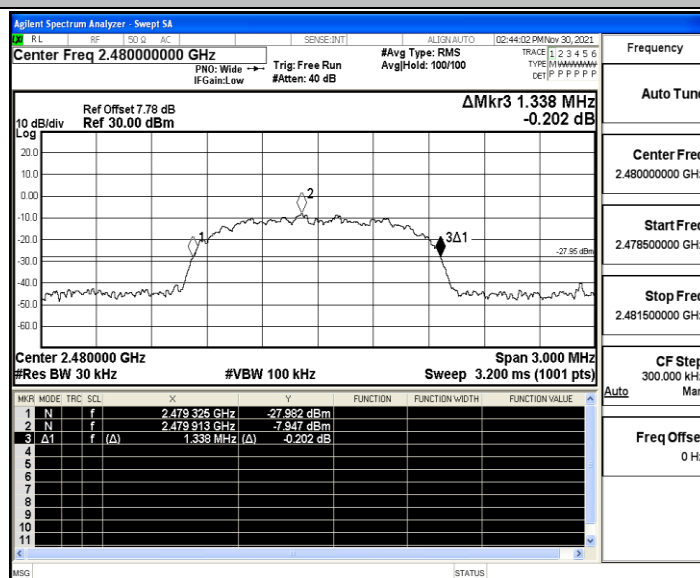
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



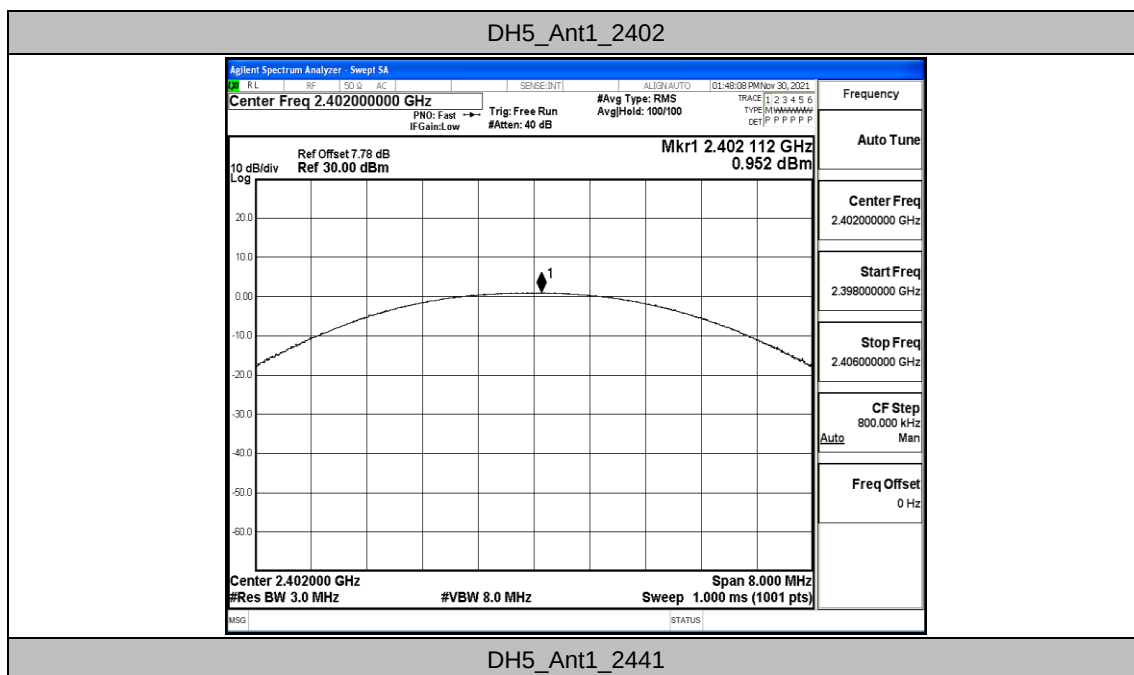


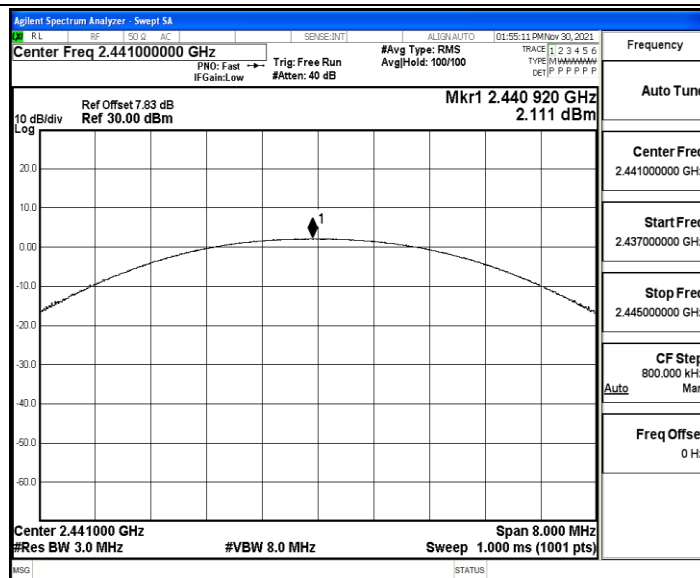
A.2 Maximum conducted output power

Test Result

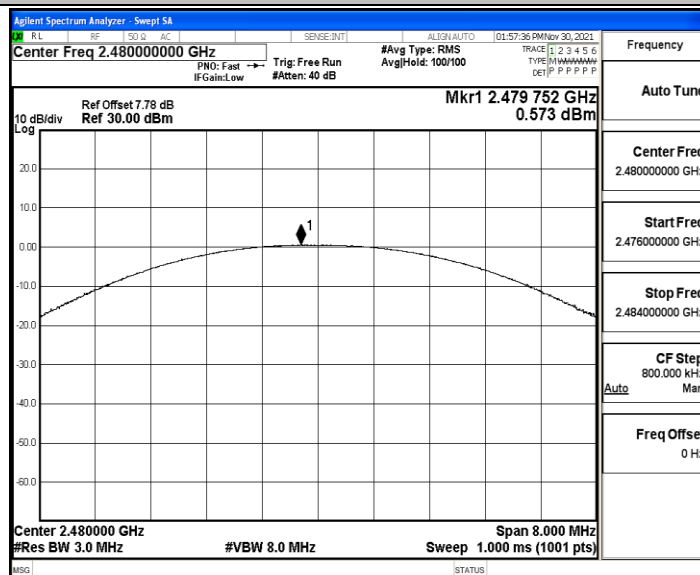
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.95	≤20.97	PASS
		2441	2.11	≤20.97	PASS
		2480	0.57	≤20.97	PASS
2DH5	Ant1	2402	0.12	≤20.97	PASS
		2441	1.17	≤20.97	PASS
		2480	-0.35	≤20.97	PASS
3DH5	Ant1	2402	0.18	≤20.97	PASS
		2441	1.33	≤20.97	PASS
		2480	-0.32	≤20.97	PASS

Test Graphs

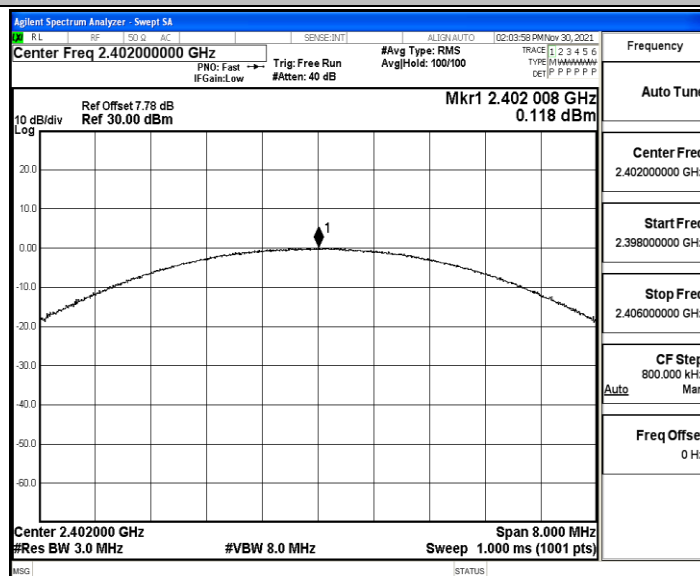




DH5_Ant1_2480

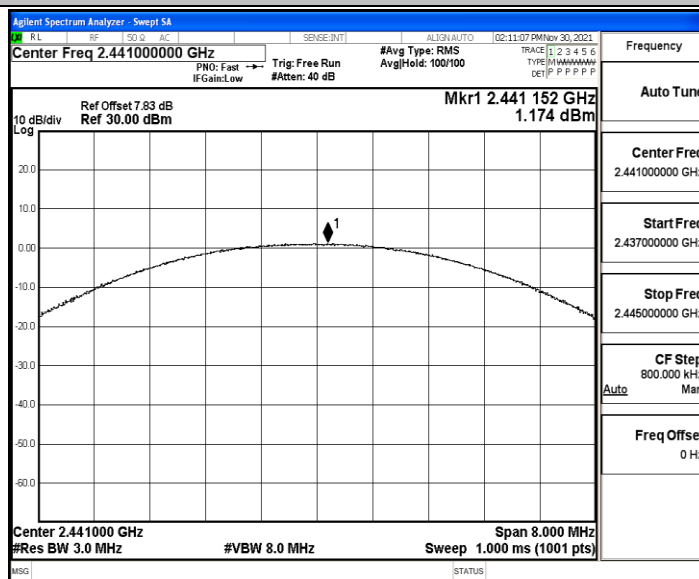


2DH5_Ant1_2402

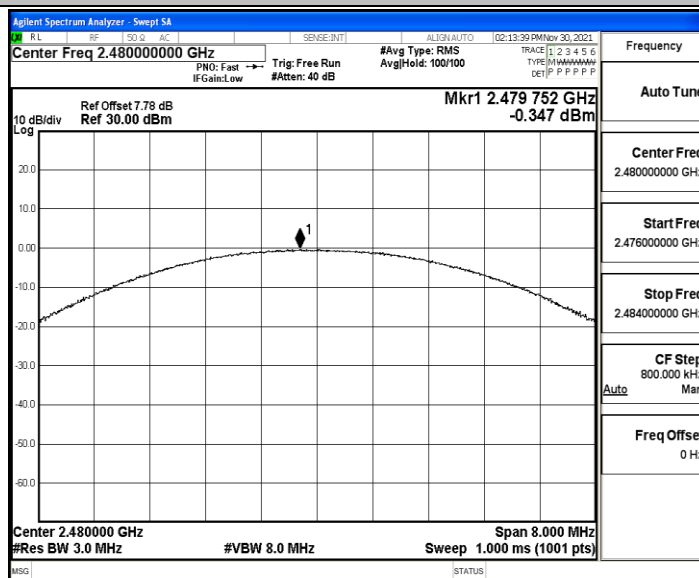




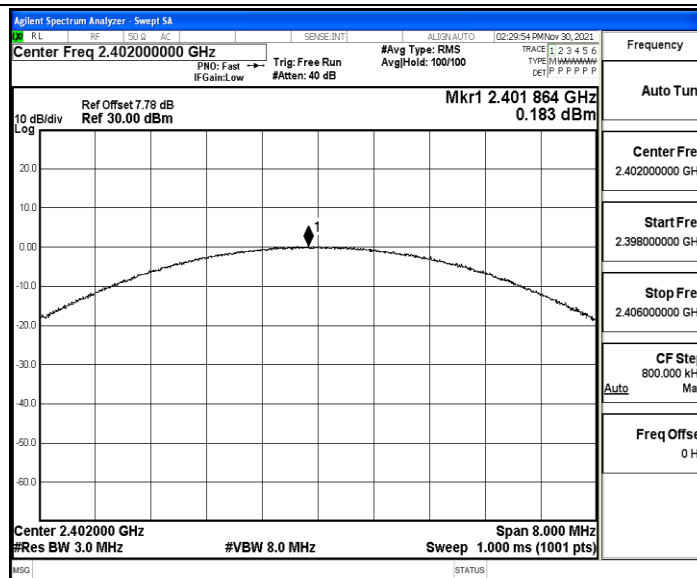
2DH5_Ant1_2441



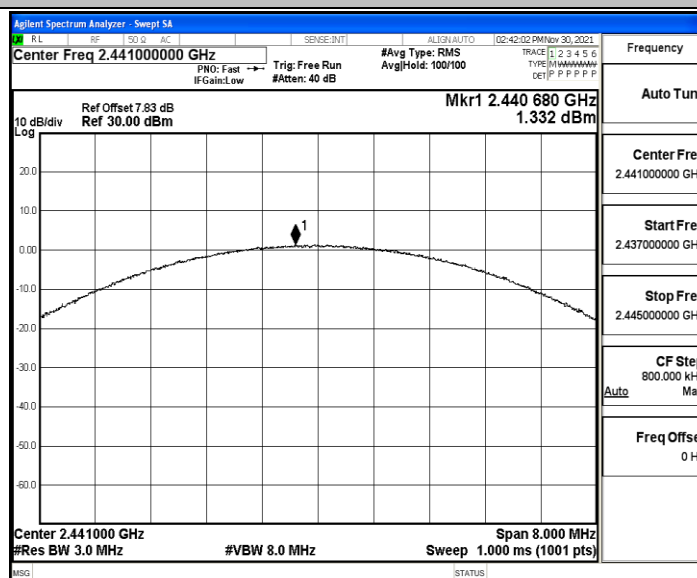
2DH5_Ant1_2480



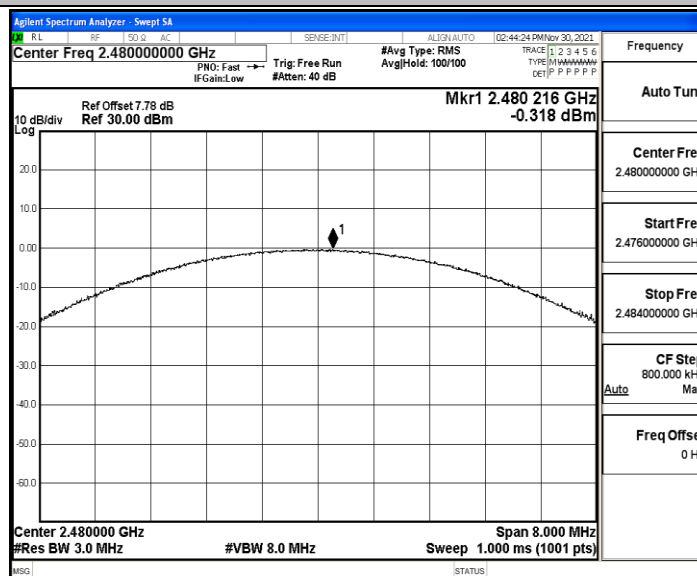
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



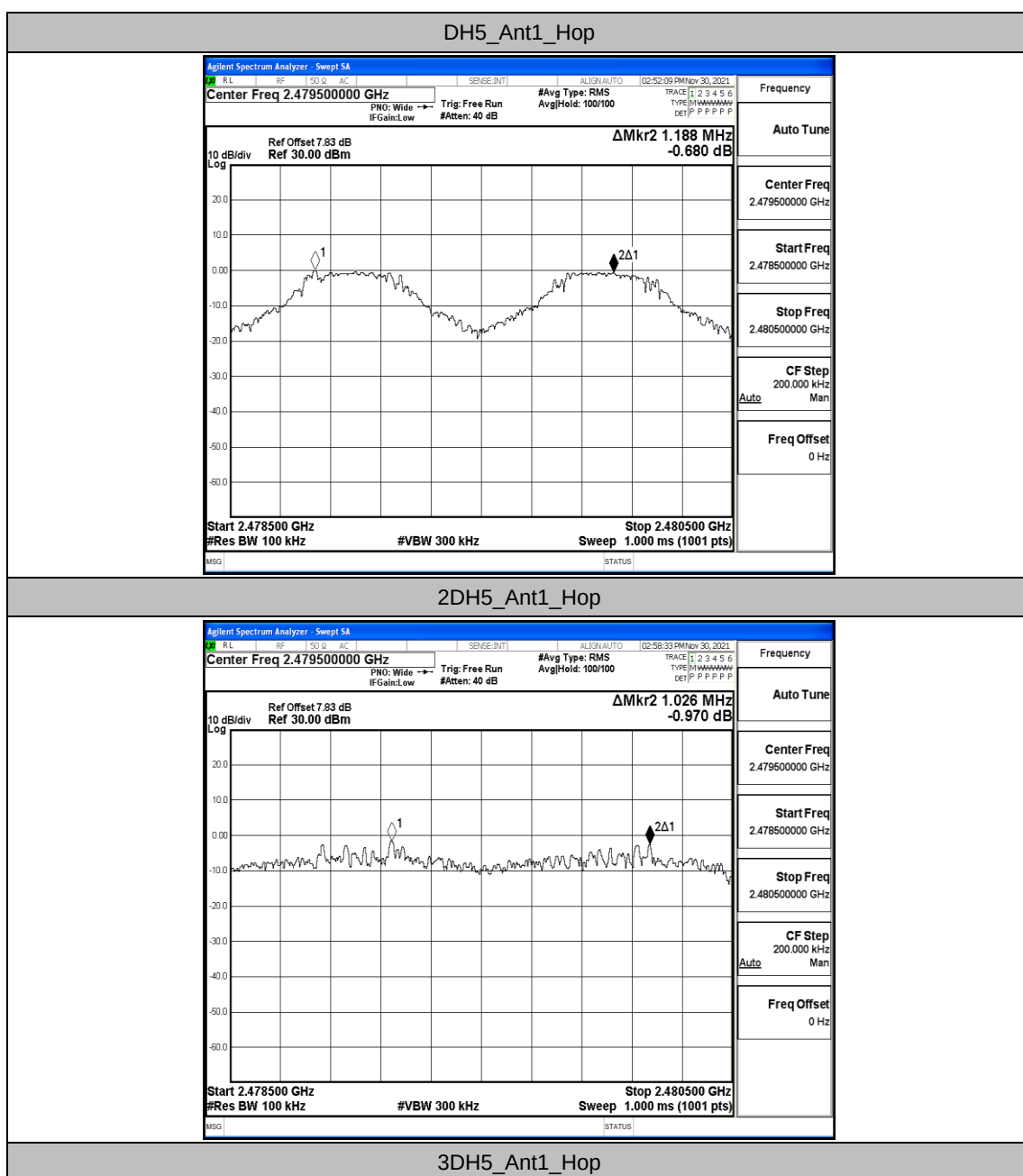


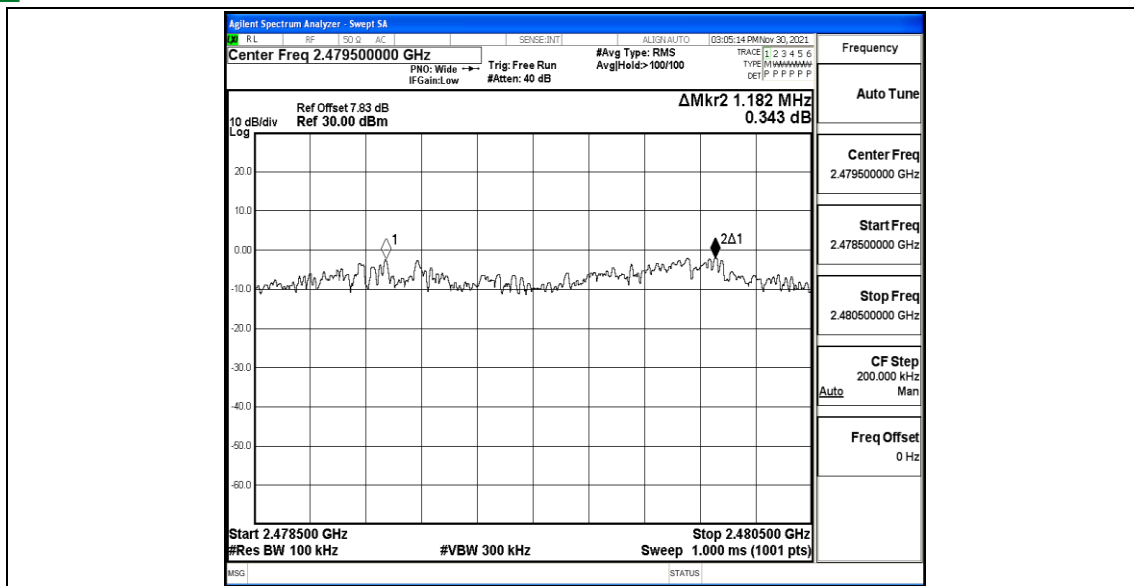
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.188	≥ 1.047	PASS
2DH5	Ant1	Hop	1.026	≥ 0.888	PASS
3DH5	Ant1	Hop	1.182	≥ 0.892	PASS

Test Graphs





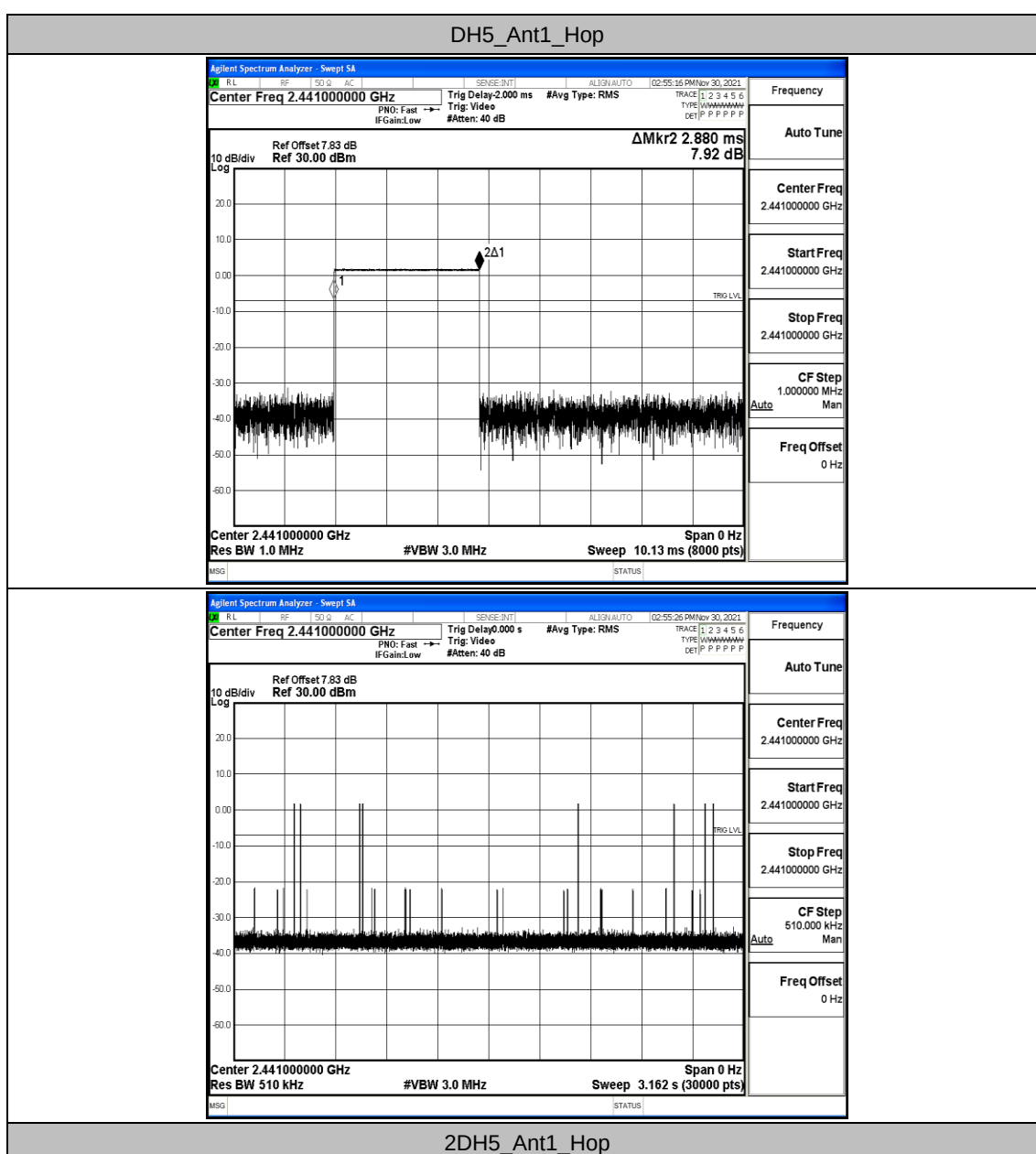


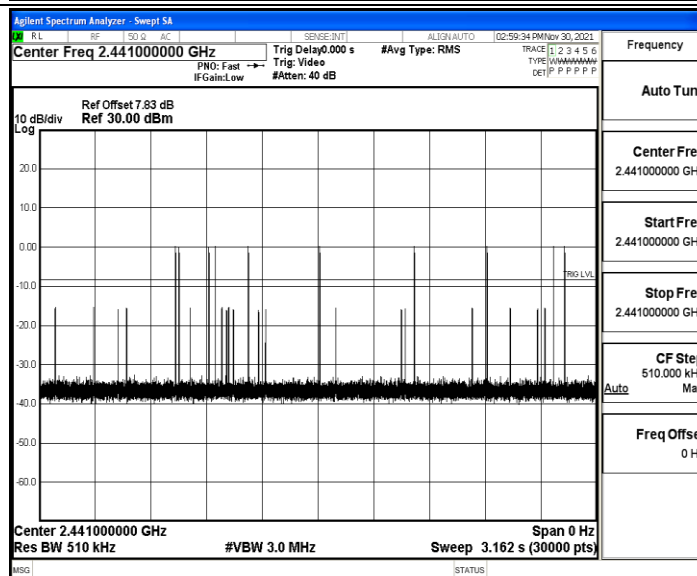
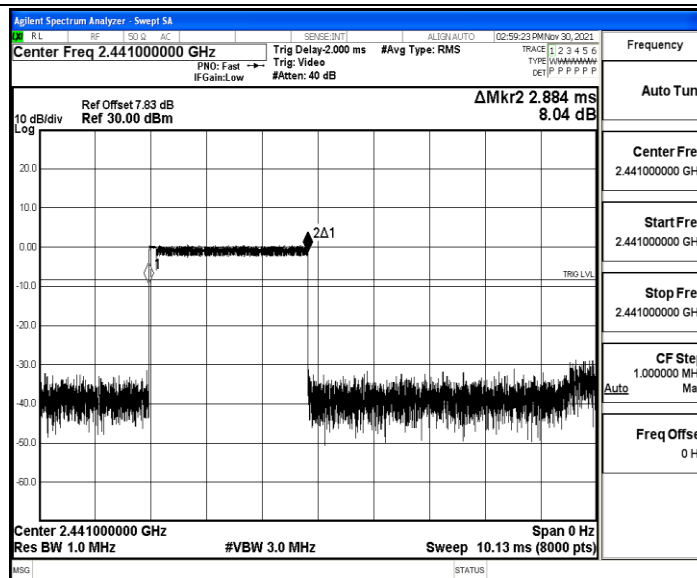
A.4 Time of occupancy

Test Result

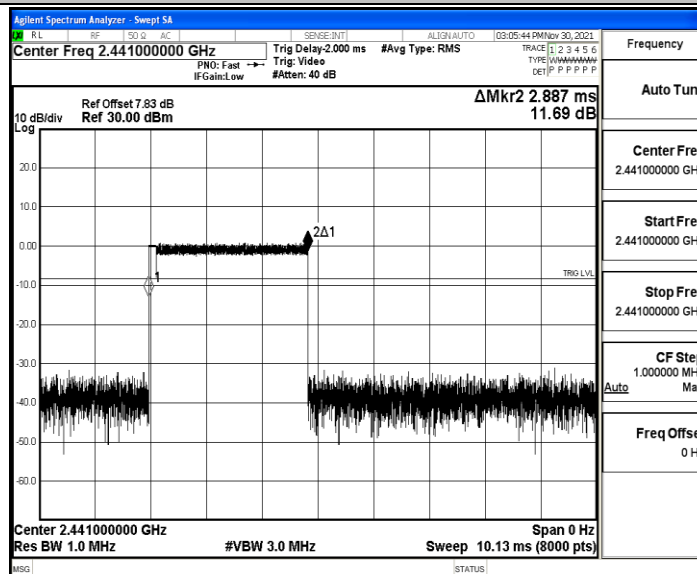
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	≤0.4	PASS

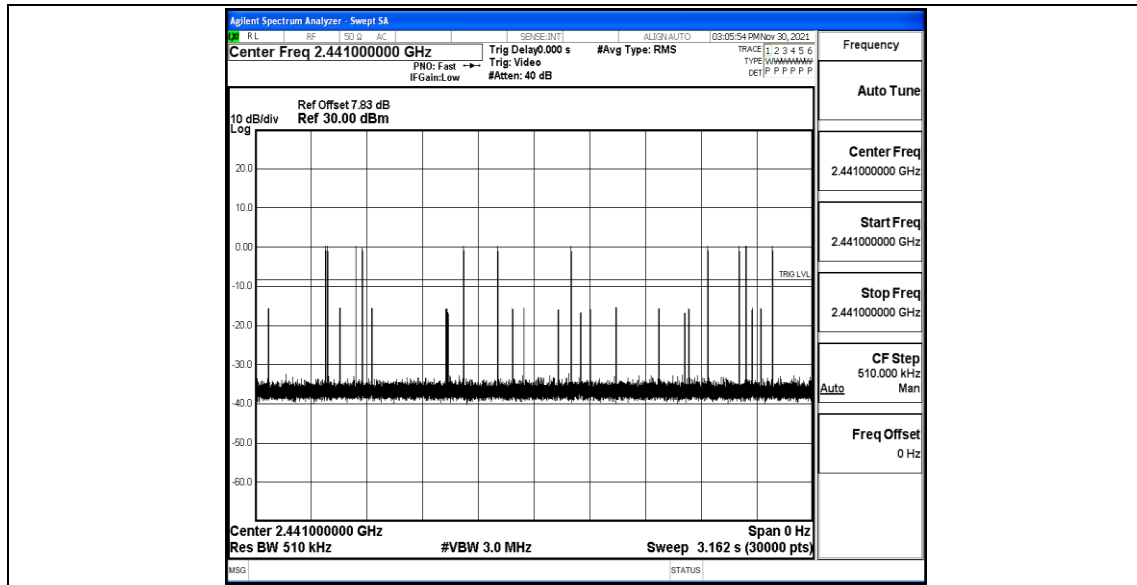
Test Graphs





3DH5_Ant1_Hop





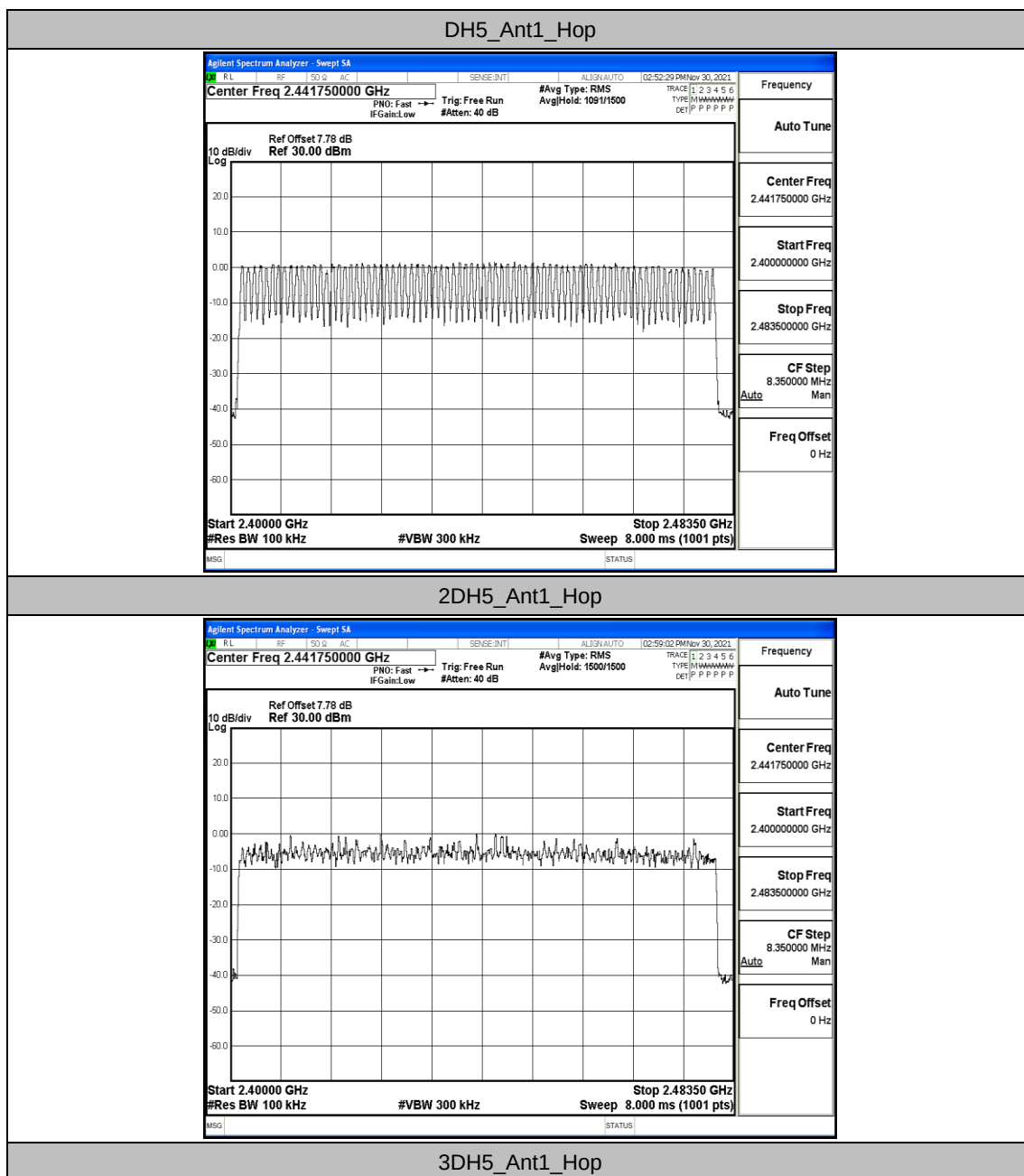


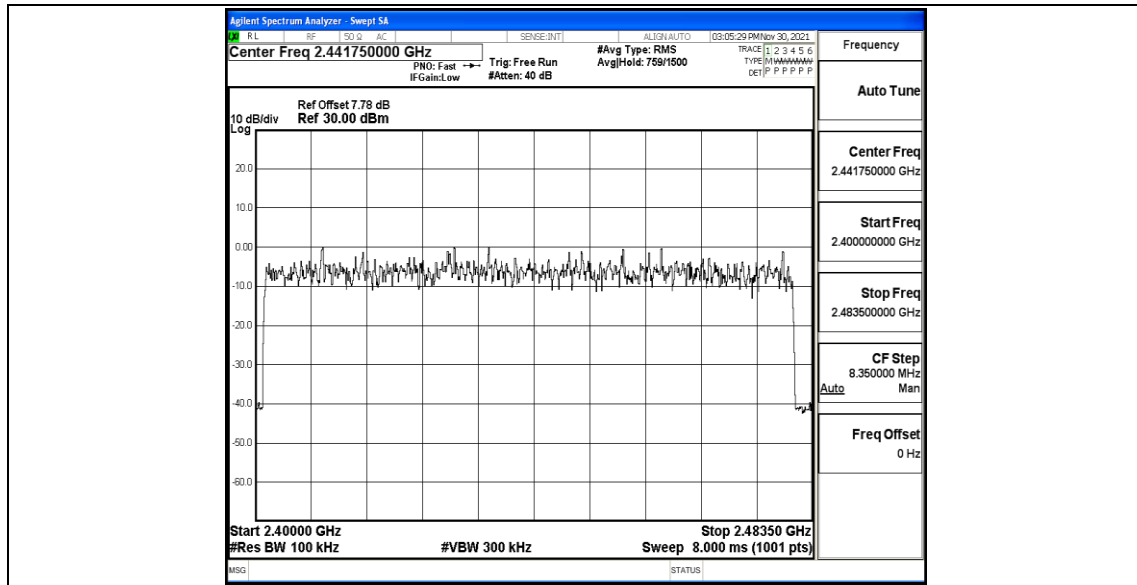
A.5 Number of hopping channels

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

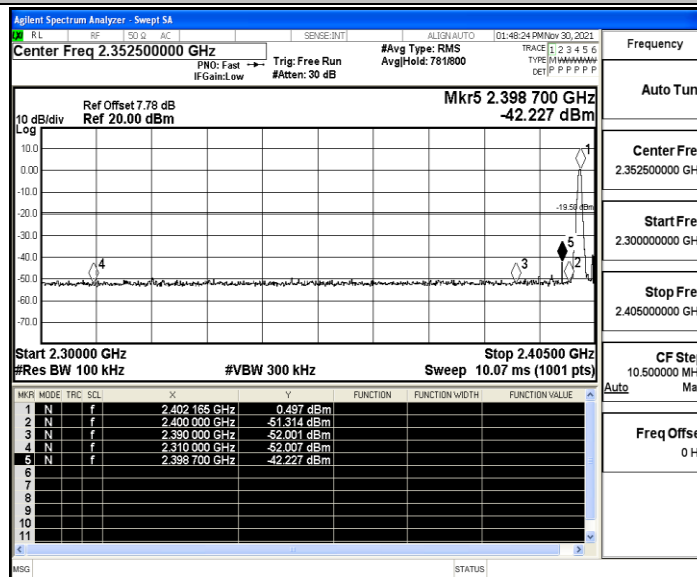
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.50	-42.23	≤ -19.5	PASS
		High	2480	-0.01	-48.43	≤ -20.01	PASS
		Low	Hop_2402	-0.27	-49.93	≤ -20.27	PASS
		High	Hop_2480	0.27	-48.59	≤ -19.73	PASS
2DH5	Ant1	Low	2402	-1.02	-48.78	≤ -21.02	PASS
		High	2480	-1.45	-48.39	≤ -21.45	PASS
		Low	Hop_2402	-4.72	-48.89	≤ -24.72	PASS
		High	Hop_2480	-3.05	-48.26	≤ -23.05	PASS
3DH5	Ant1	Low	2402	-4.00	-49.12	≤ -24	PASS
		High	2480	-1.45	-48.63	≤ -21.45	PASS
		Low	Hop_2402	-3.07	-49.66	≤ -23.07	PASS
		High	Hop_2480	-1.14	-47.91	≤ -21.14	PASS

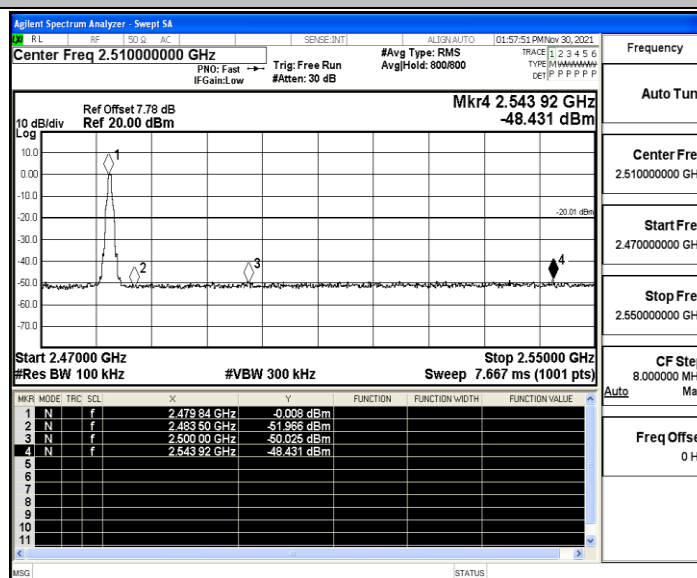


Test Graphs

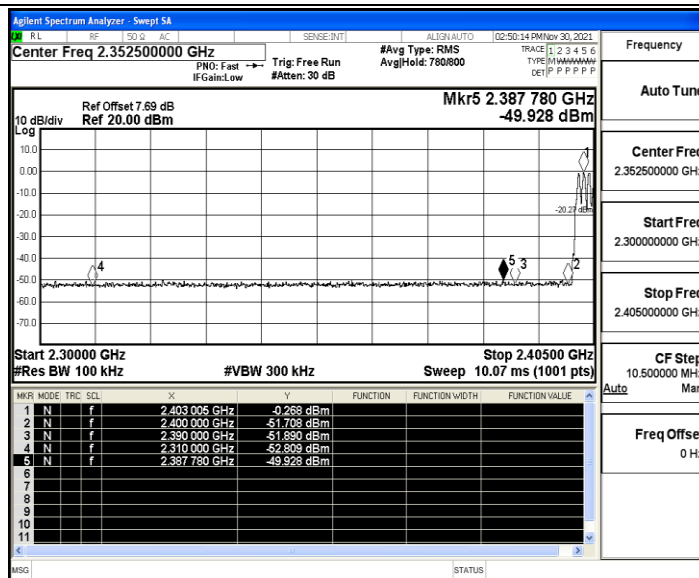
DH5_Ant1_Low_2402



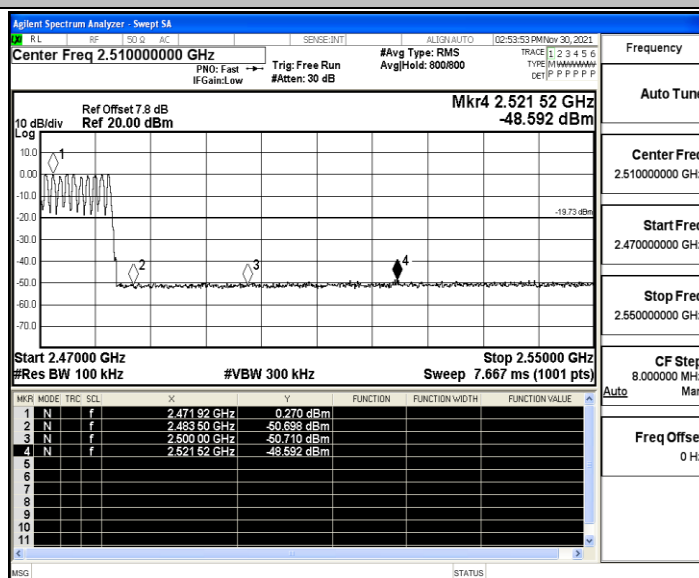
DH5_Ant1_High_2480



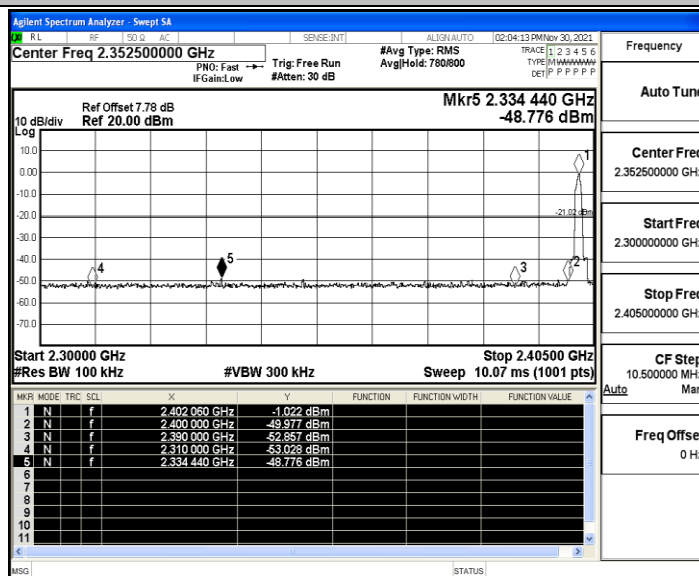
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

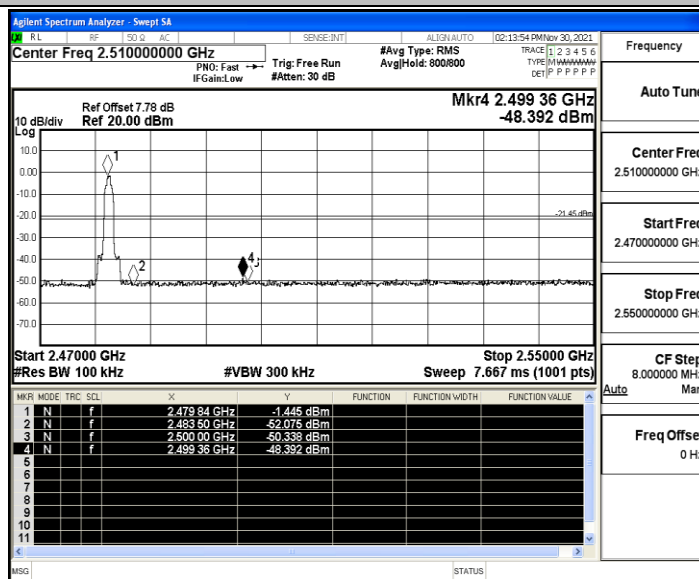


2DH5_Ant1_Low_2402

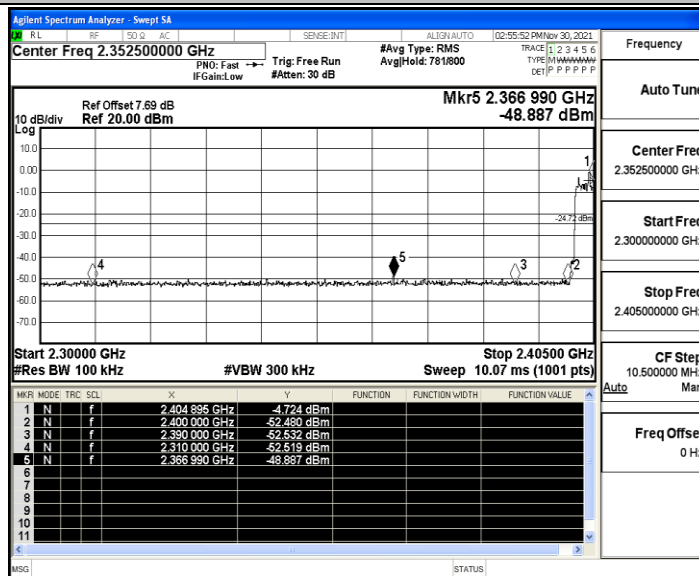




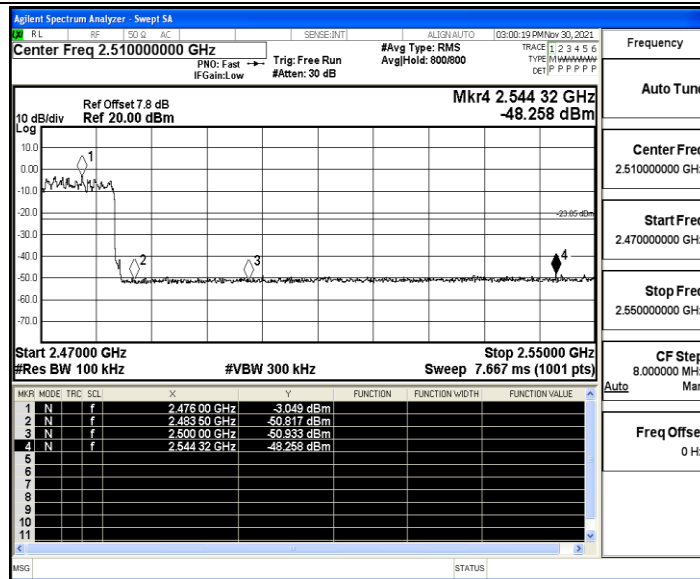
2DH5_Ant1_High_2480



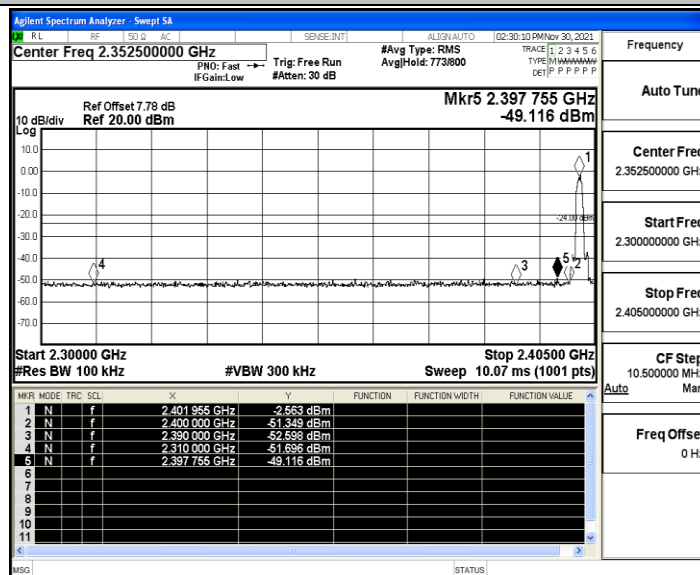
2DH5_Ant1_Low_Hop_2402



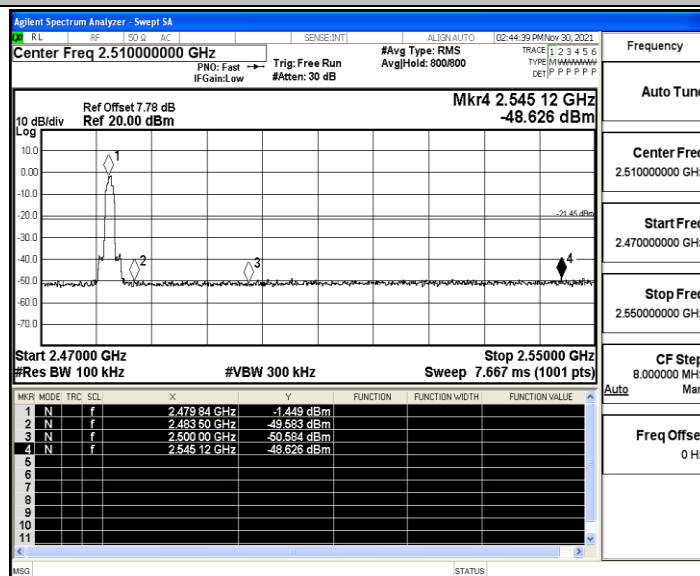
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

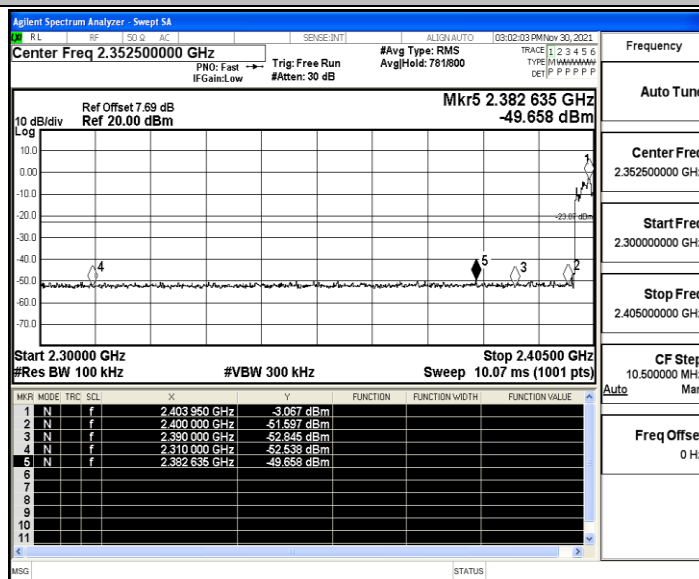


3DH5_Ant1_High_2480

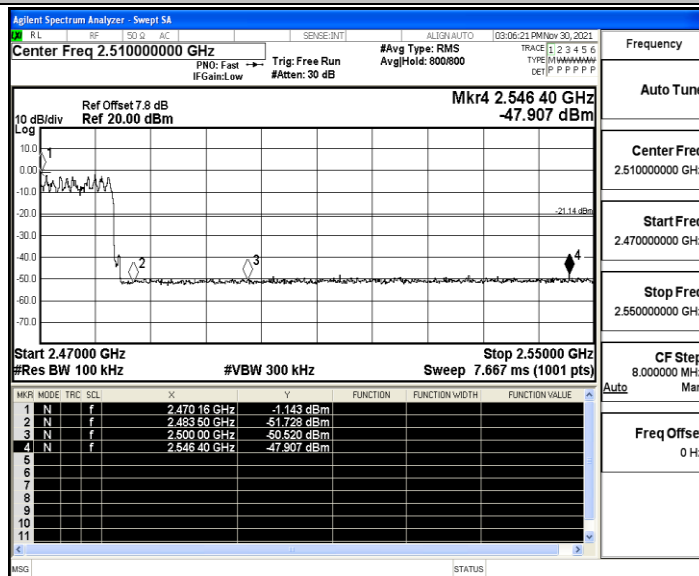




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





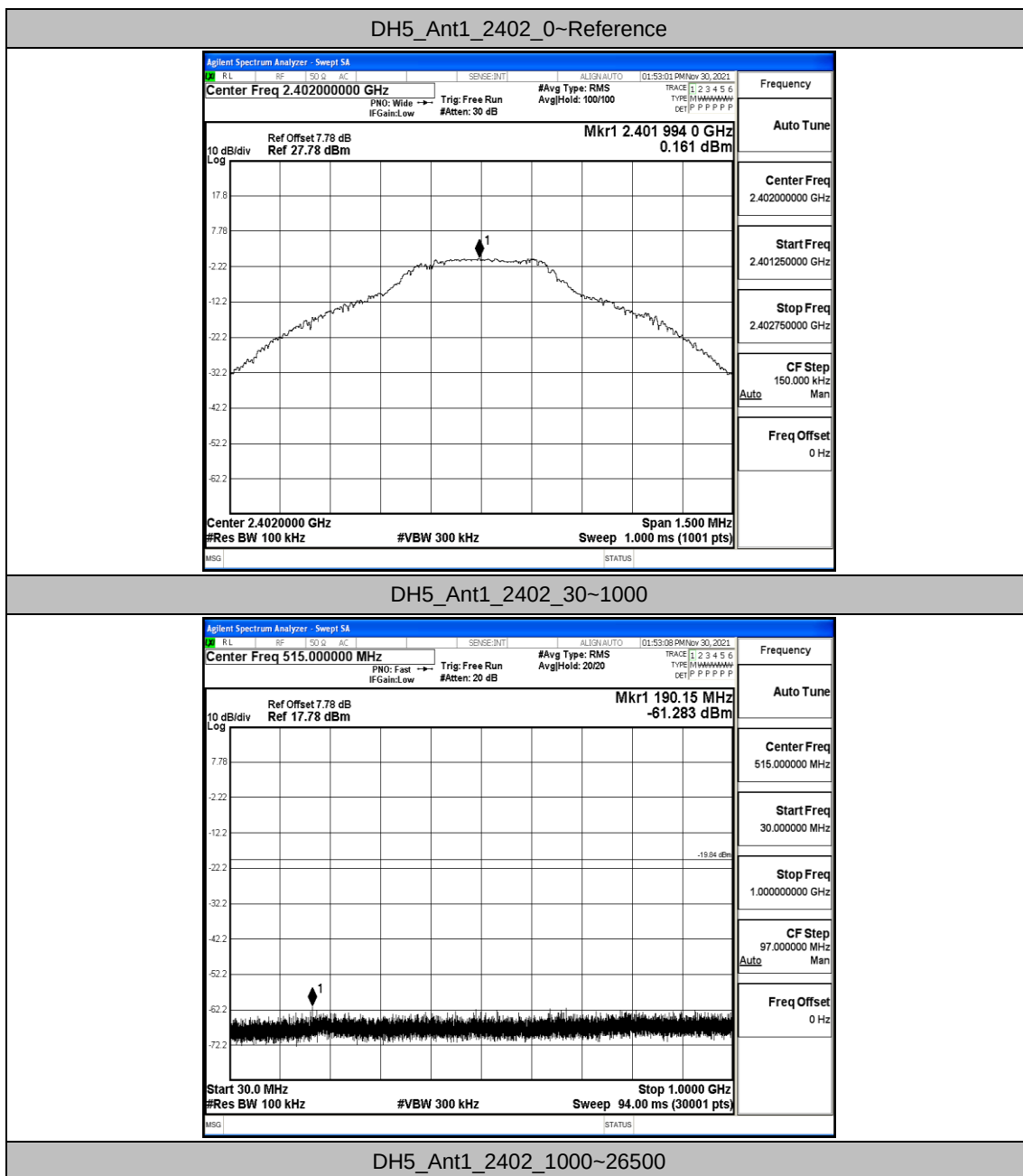
A.7 Conducted Spurious Emission

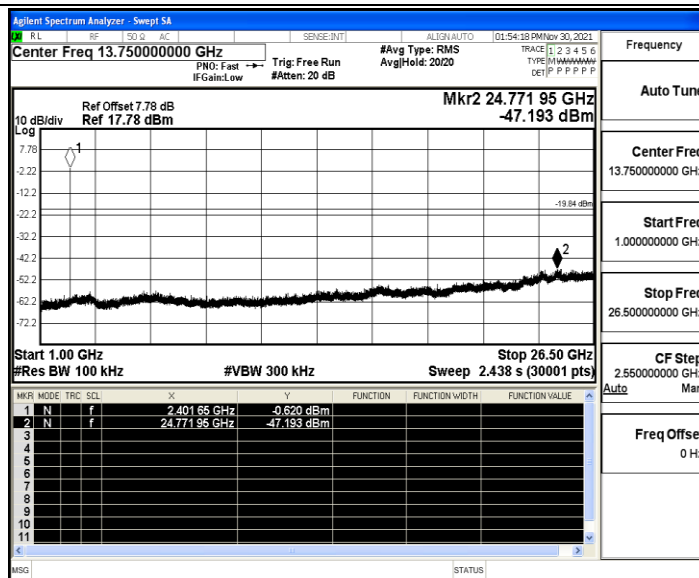
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.16	0.16	---	PASS
			30~1000	0.16	-61.28	≤-19.84	PASS
			1000~26500	0.16	-47.19	≤-19.84	PASS
		2441	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-61.91	≤-18.91	PASS
			1000~26500	1.09	-46.87	≤-18.91	PASS
		2480	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-62.15	≤-20.58	PASS
			1000~26500	-0.58	-46.47	≤-20.58	PASS
2DH5	Ant1	2402	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-61.79	≤-22.95	PASS
			1000~26500	-2.95	-47.03	≤-22.95	PASS
		2441	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-61.58	≤-19.97	PASS
			1000~26500	0.03	-46.4	≤-19.97	PASS
		2480	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-61.64	≤-24.68	PASS
			1000~26500	-4.68	-46.47	≤-24.68	PASS
3DH5	Ant1	2402	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-61.02	≤-21.08	PASS
			1000~26500	-1.08	-47.03	≤-21.08	PASS
		2441	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-61.57	≤-21.19	PASS
			1000~26500	-1.19	-46.91	≤-21.19	PASS
		2480	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-61.19	≤-21.54	PASS
			1000~26500	-1.54	-47.22	≤-21.54	PASS

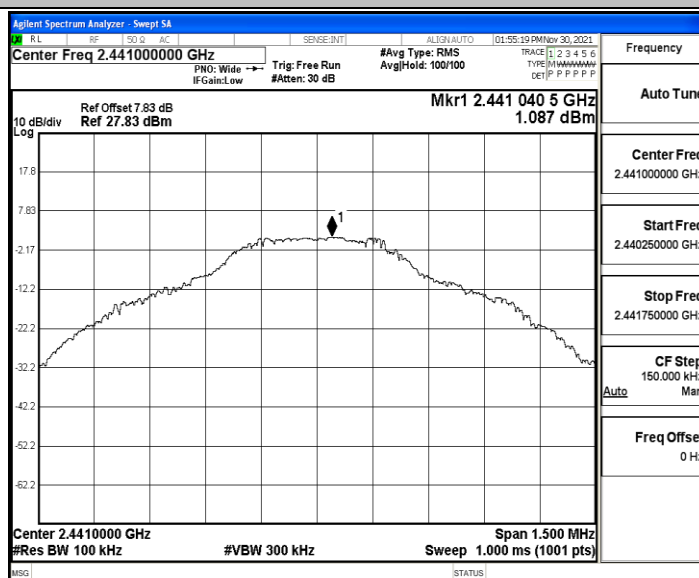


Test Graphs

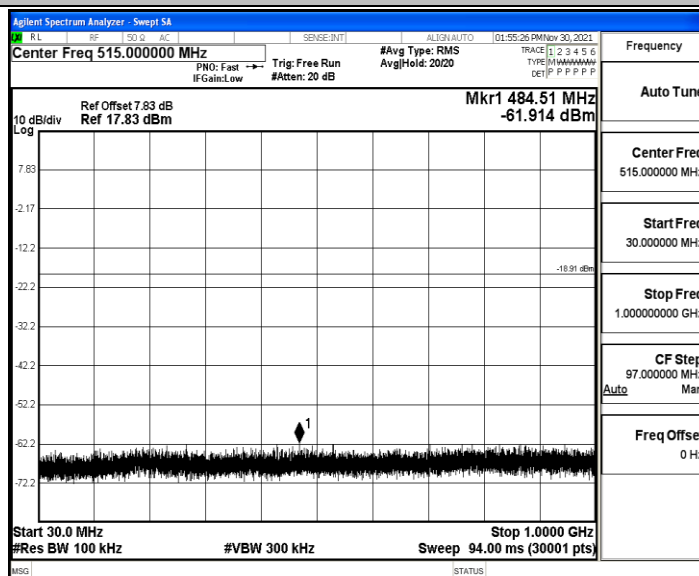




DH5_Ant1_2441_0~Reference

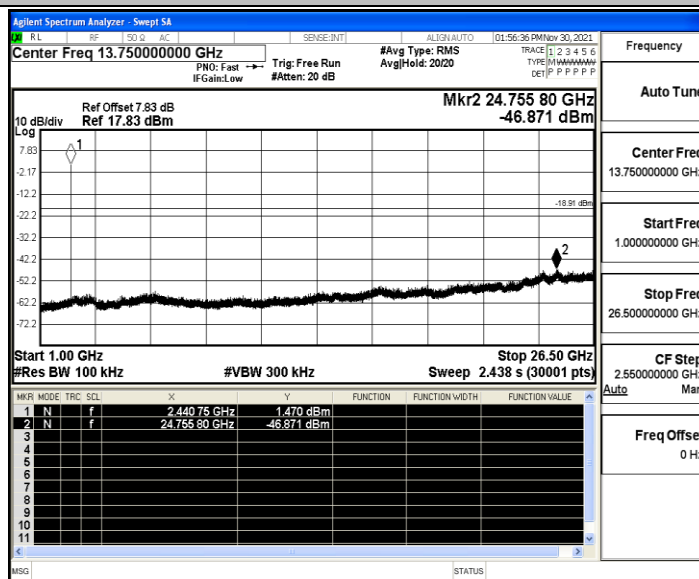


DH5_Ant1_2441_30~1000

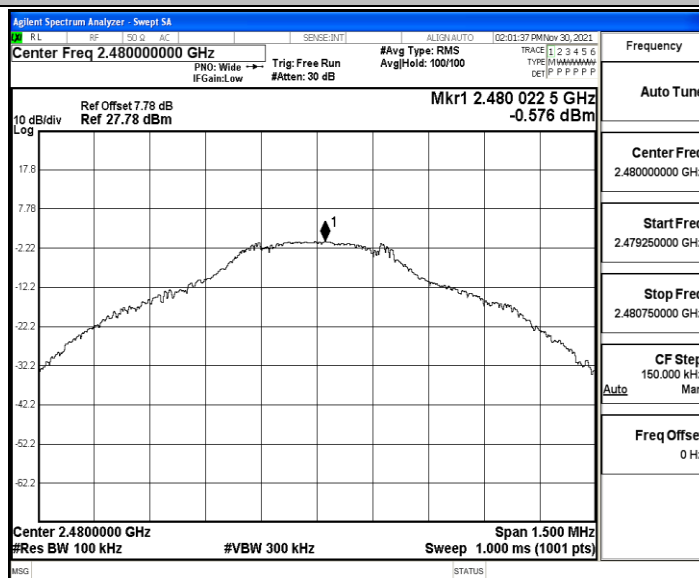




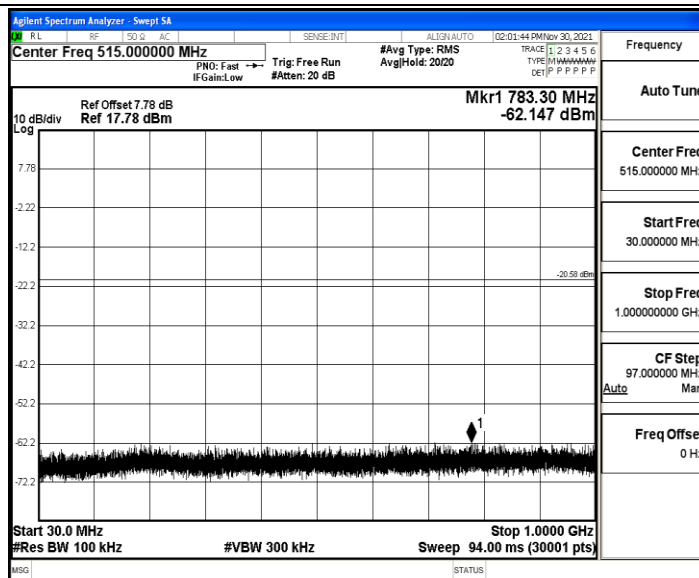
DH5_Ant1_2441_1000~26500



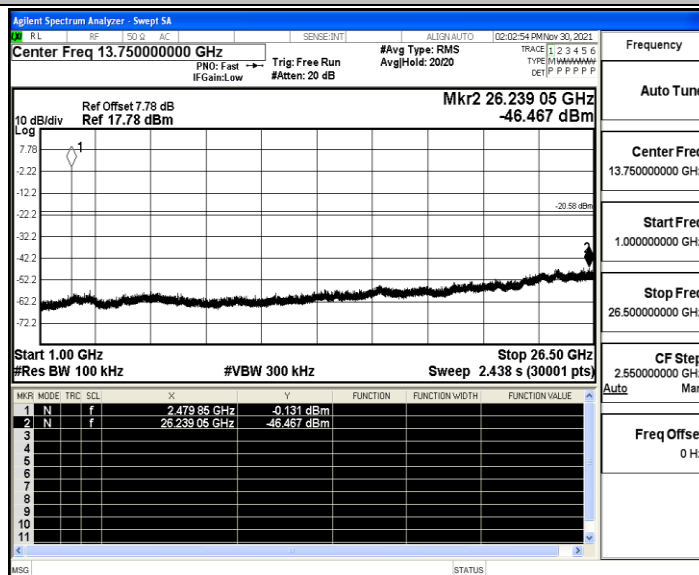
DH5_Ant1_2480_0~Reference



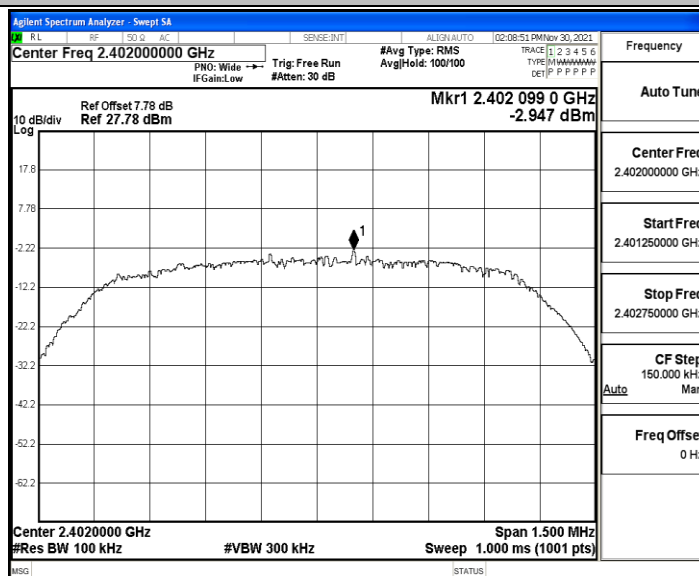
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

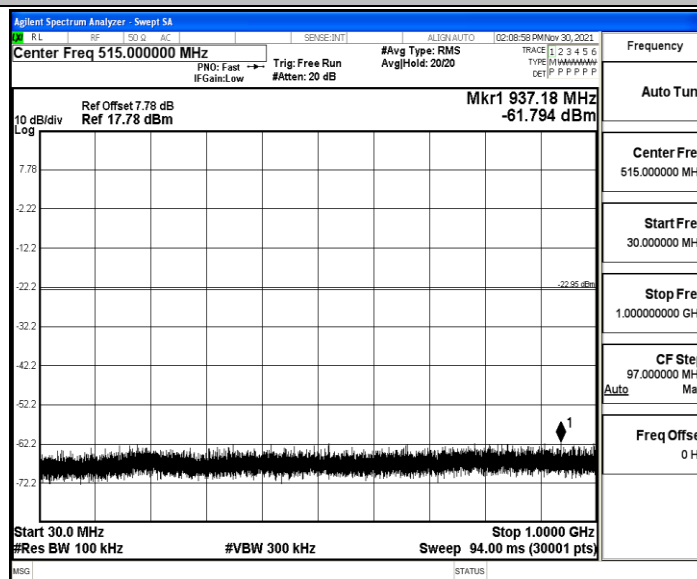


2DH5_Ant1_2402_0~Reference

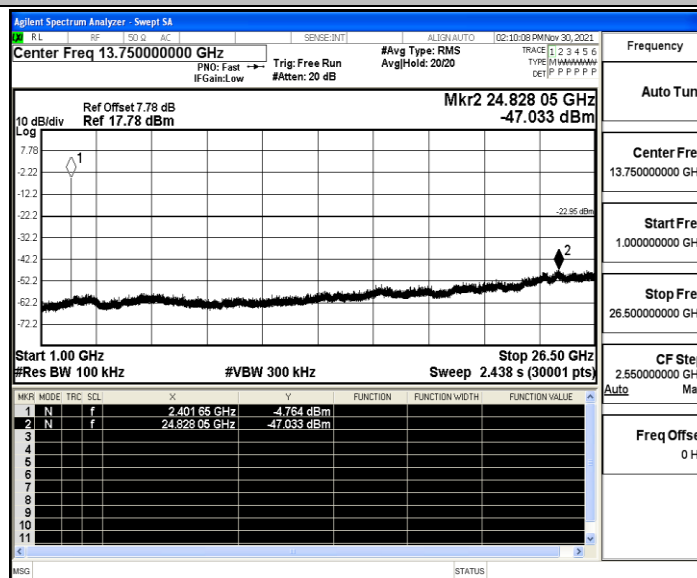




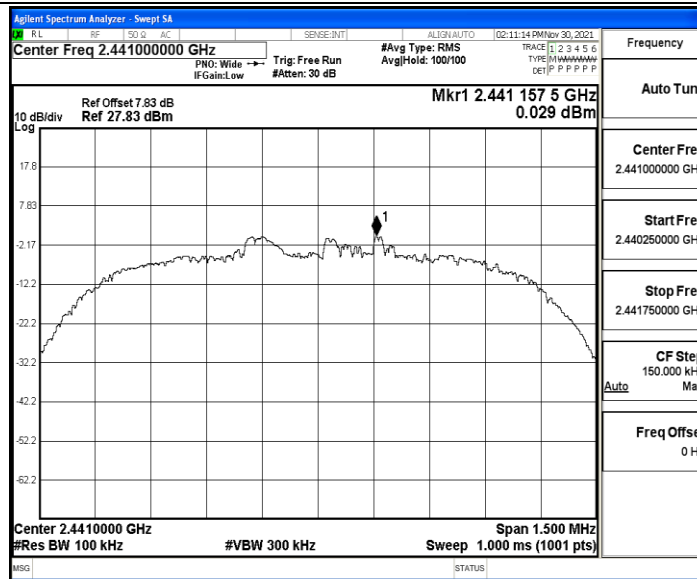
2DH5_Ant1_2402_30~1000



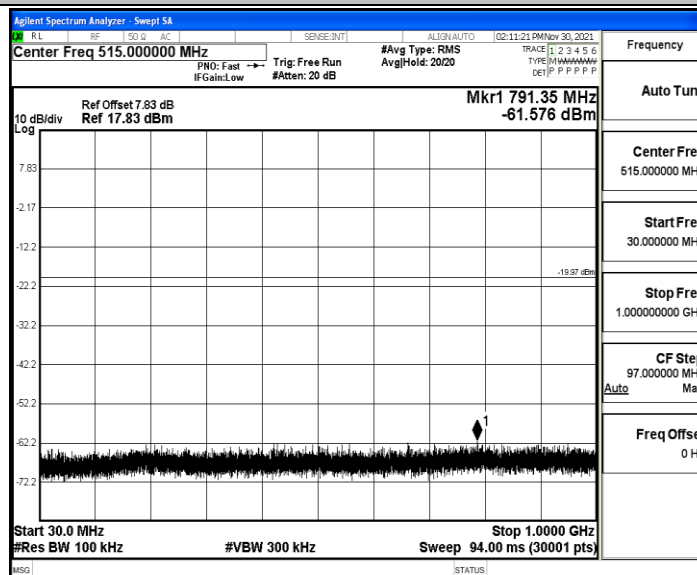
2DH5_Ant1_2402_1000~26500



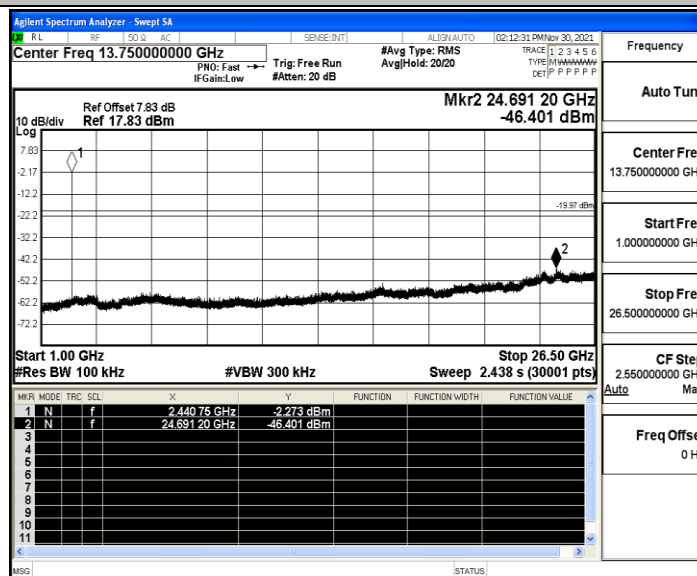
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

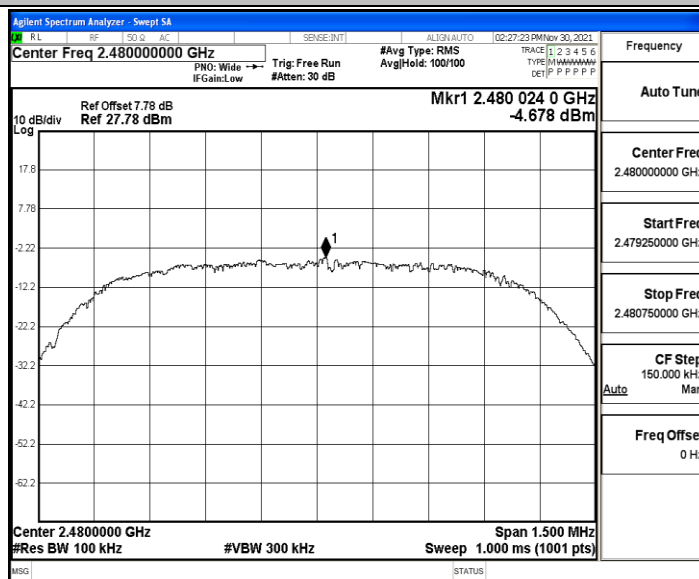


2DH5_Ant1_2441_1000~26500

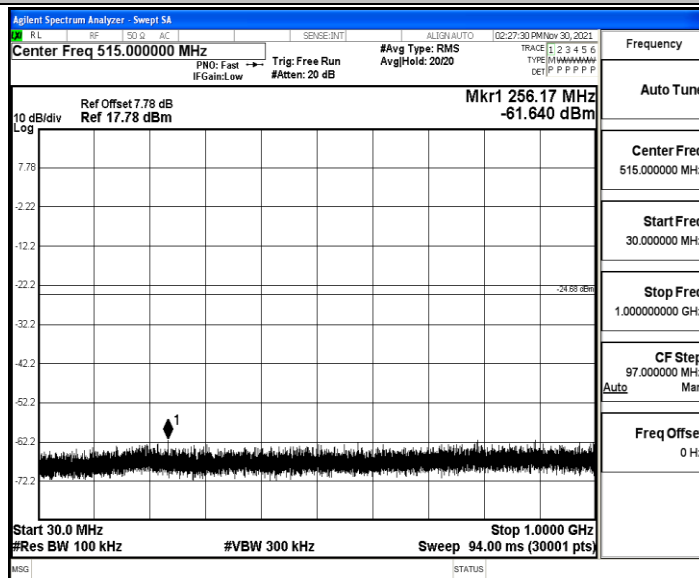




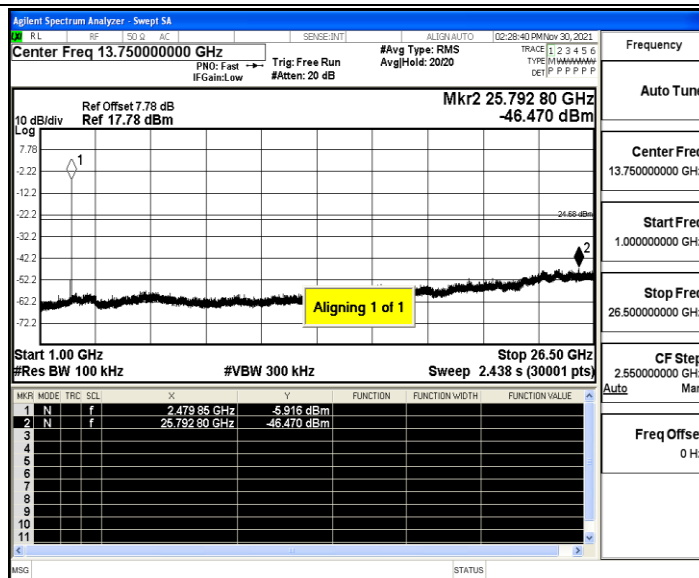
2DH5_Ant1_2480_0~Reference



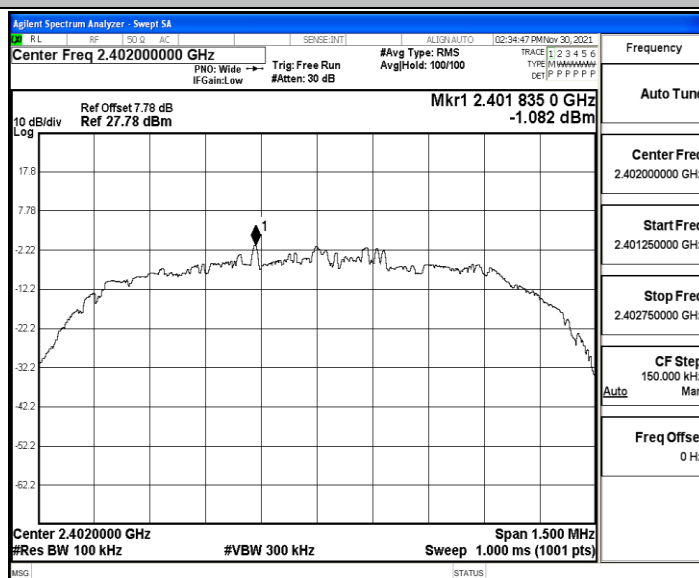
2DH5_Ant1_2480_30~1000



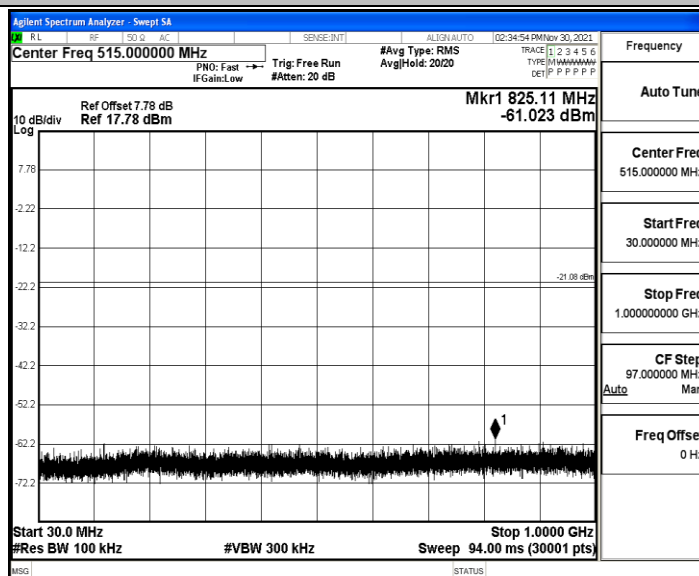
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

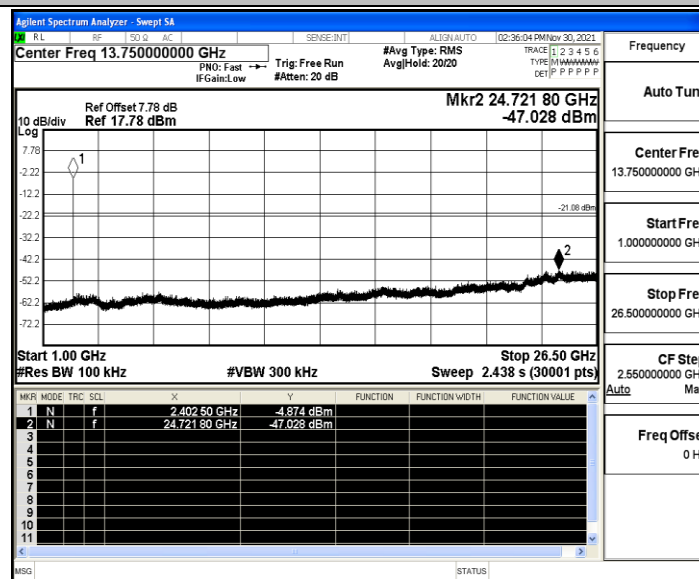


3DH5_Ant1_2402_30~1000

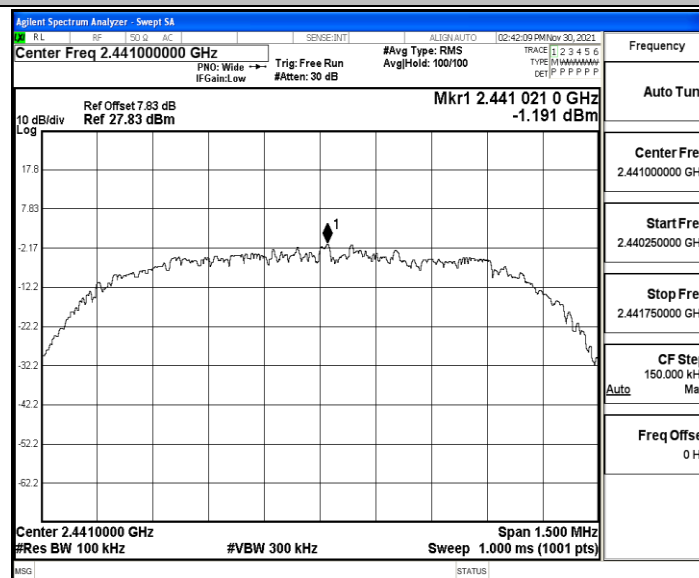




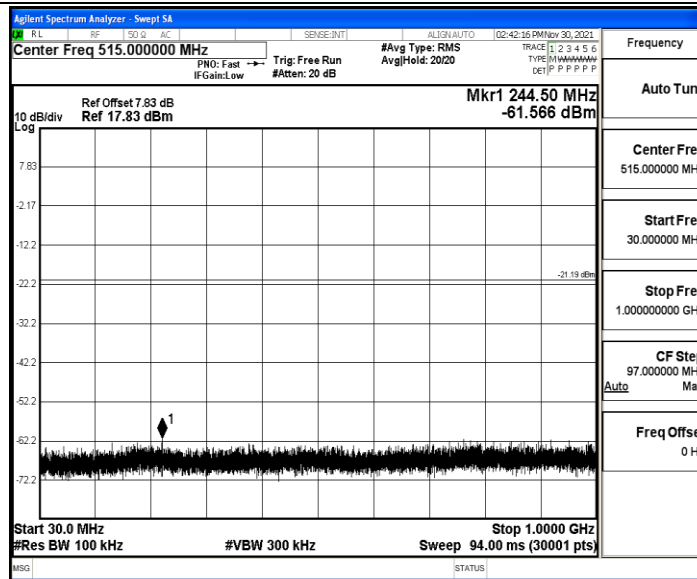
3DH5_Ant1_2402_1000~26500



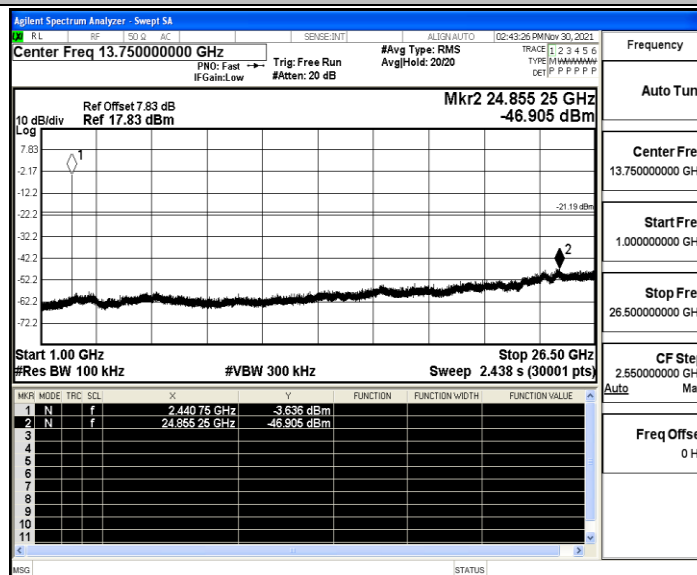
3DH5_Ant1_2441_0~Reference



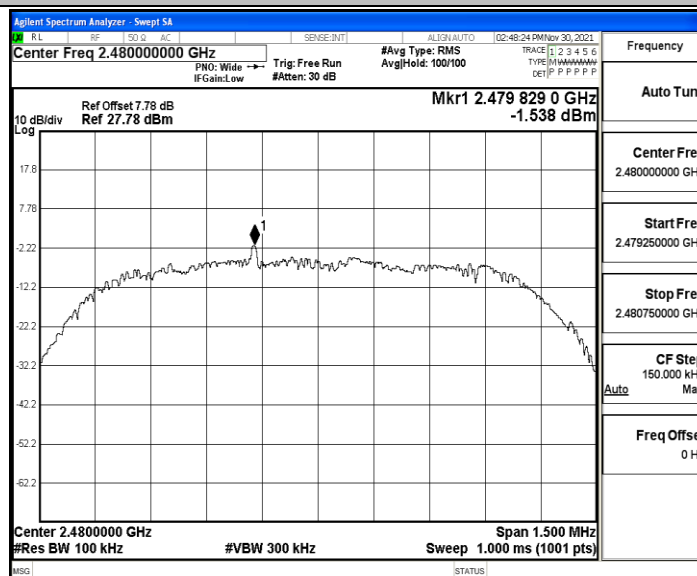
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

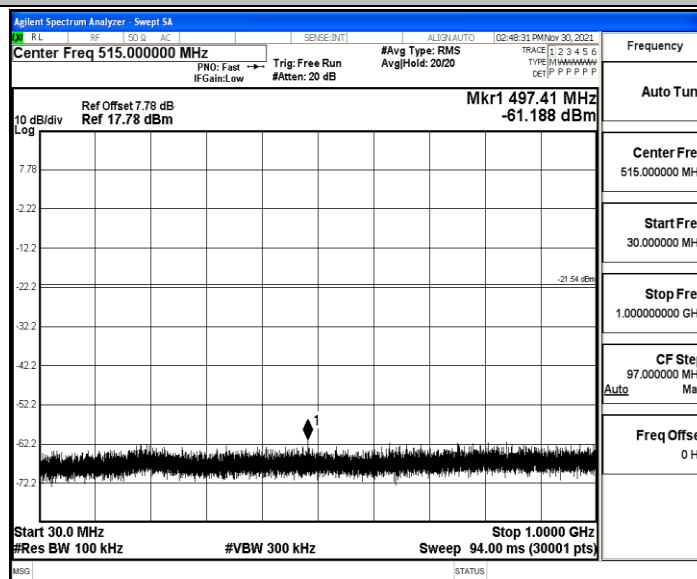


3DH5_Ant1_2480_0~Reference

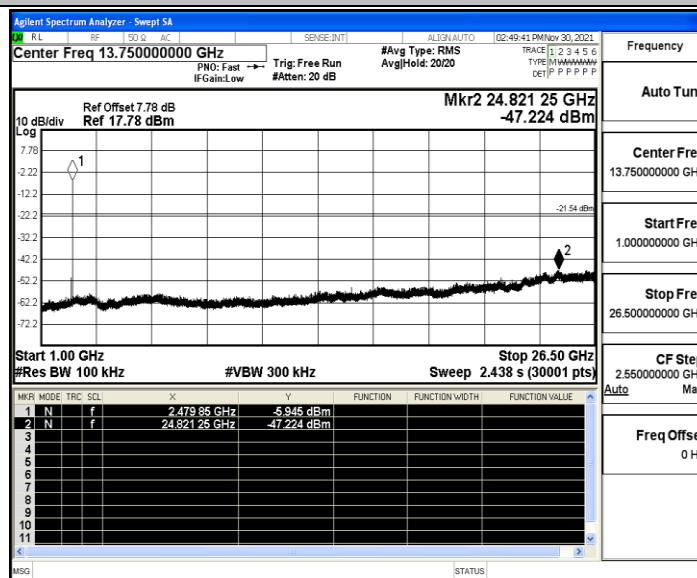




3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500





A.7 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	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2385.890	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2390.000	-48.59	≤-41.20	46.61	≤54	PASS
				Peak	2310.000	-41.08	≤-21.20	54.12	≤74	PASS
				Peak	2389.355	-37.74	≤-21.20	57.46	≤74	PASS
				Peak	2390.000	-40.54	≤-21.20	54.66	≤74	PASS
		High	2480	AV	2483.500	-47.92	≤-41.20	47.28	≤54	PASS
				AV	2485.280	-47.64	≤-41.20	47.56	≤54	PASS
				AV	2500.000	-48.03	≤-41.20	47.17	≤54	PASS
				Peak	2483.500	-39.93	≤-21.20	55.27	≤74	PASS
				Peak	2494.560	-36.8	≤-21.20	58.40	≤74	PASS
				Peak	2500.000	-39.34	≤-21.20	55.86	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.91	≤-21.20	54.29	≤74	PASS
				Peak	2387.360	-37.59	≤-21.20	57.61	≤74	PASS
				Peak	2390.000	-40.63	≤-21.20	54.57	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.86	≤-21.20	55.34	≤74	PASS
				Peak	2484.080	-37.55	≤-21.20	57.65	≤74	PASS
				Peak	2500.000	-39.39	≤-21.20	55.81	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2380.325	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2390.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2310.000	-39.95	≤-21.20	55.25	≤74	PASS
				Peak	2338.850	-37.53	≤-21.20	57.67	≤74	PASS
				Peak	2390.000	-40.89	≤-21.20	54.31	≤74	PASS
		High	2480	AV	2483.500	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2497.680	-47.92	≤-41.20	47.28	≤54	PASS
				AV	2500.000	-48.07	≤-41.20	47.13	≤54	PASS
				Peak	2483.500	-40.55	≤-21.20	54.65	≤74	PASS
				Peak	2487.040	-37.78	≤-21.20	57.42	≤74	PASS
				Peak	2500.000	-39.34	≤-21.20	55.86	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.96	≤-21.20	54.24	≤74	PASS
				Peak	2345.465	-37.35	≤-21.20	57.85	≤74	PASS
				Peak	2390.000	-41.01	≤-21.20	54.19	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.72	≤-21.20	54.48	≤74	PASS
				Peak	2486.480	-37.99	≤-21.20	57.21	≤74	PASS
				Peak	2500.000	-38.96	≤-21.20	56.24	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.9	≤-41.20	46.30	≤54	PASS



				AV	2385.155	-48.48	≤ -41.20	46.72	≤ 54	PASS
				AV	2390.000	-48.51	≤ -41.20	46.69	≤ 54	PASS
				Peak	2310.000	-40.8	≤ -21.20	54.40	≤ 74	PASS
				Peak	2380.115	-37.81	≤ -21.20	57.39	≤ 74	PASS
				Peak	2390.000	-40.77	≤ -21.20	54.43	≤ 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	-48.01	≤ -41.20	47.19	≤ 54	PASS
				Peak	2483.500	-39.44	≤ -21.20	55.76	≤ 74	PASS
				Peak	2493.040	-37.71	≤ -21.20	57.49	≤ 74	PASS
				Peak	2500.000	-38.87	≤ -21.20	56.33	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.57	≤ -21.20	55.63	≤ 74	PASS
				Peak	2314.280	-38.41	≤ -21.20	56.79	≤ 74	PASS
				Peak	2390.000	-40.31	≤ -21.20	54.89	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-39.95	≤ -21.20	55.25	≤ 74	PASS
				Peak	2491.600	-37.47	≤ -21.20	57.73	≤ 74	PASS
				Peak	2500.000	-39.97	≤ -21.20	55.23	≤ 74	PASS

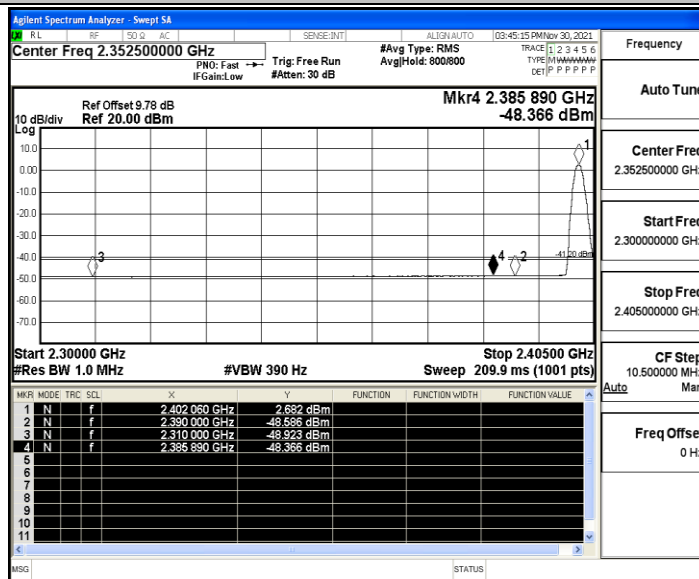
Note:

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.

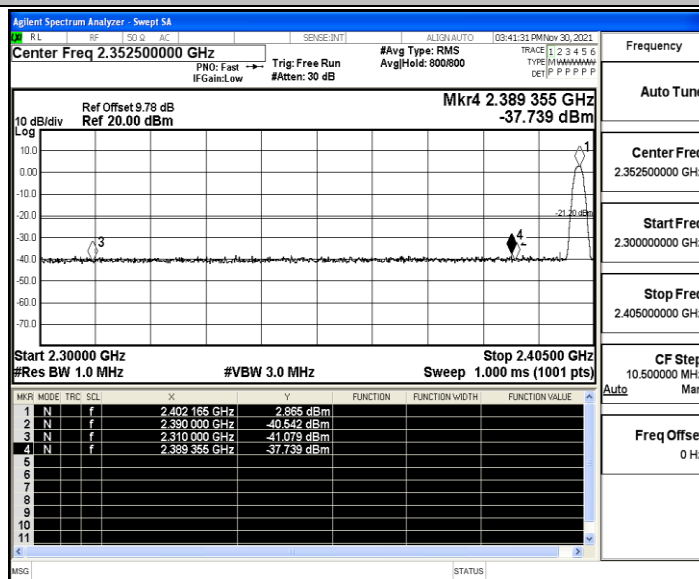


Test Graphs

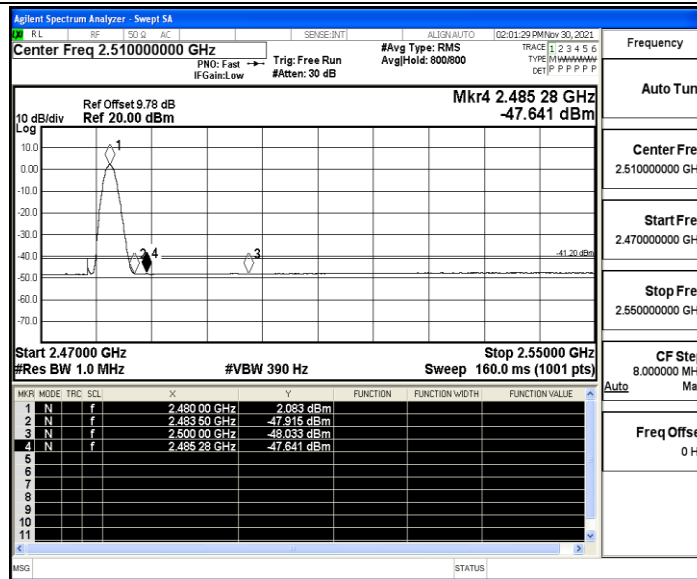
DH5_Ant1_Low_2402_AV



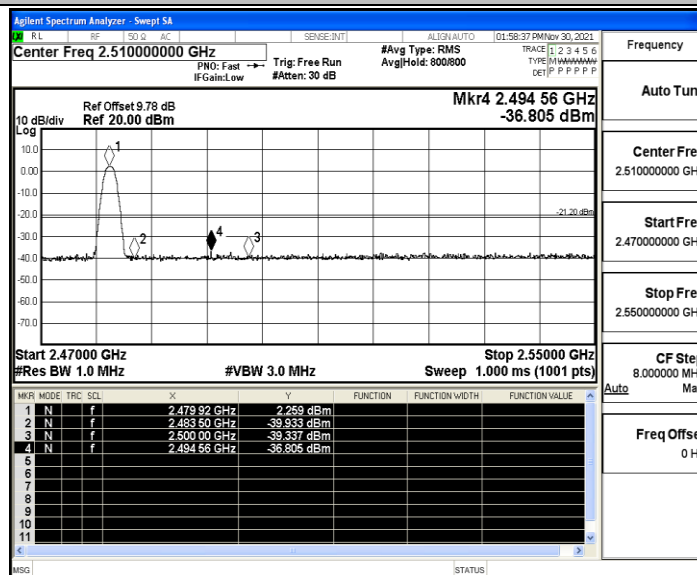
DH5_Ant1_Low_2402_Peak



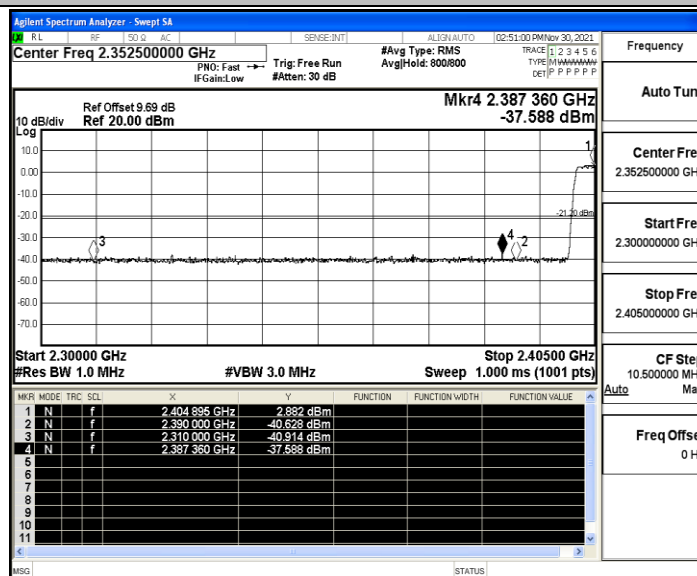
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

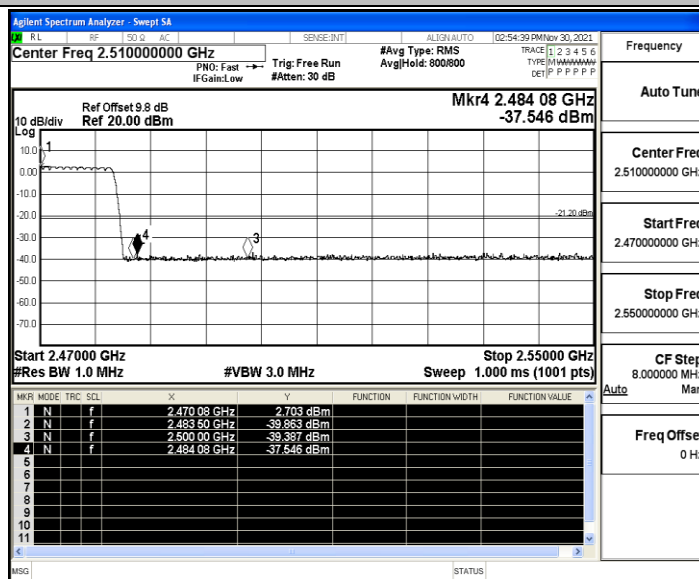


DH5_Ant1_Low_Hop_2402_Peak

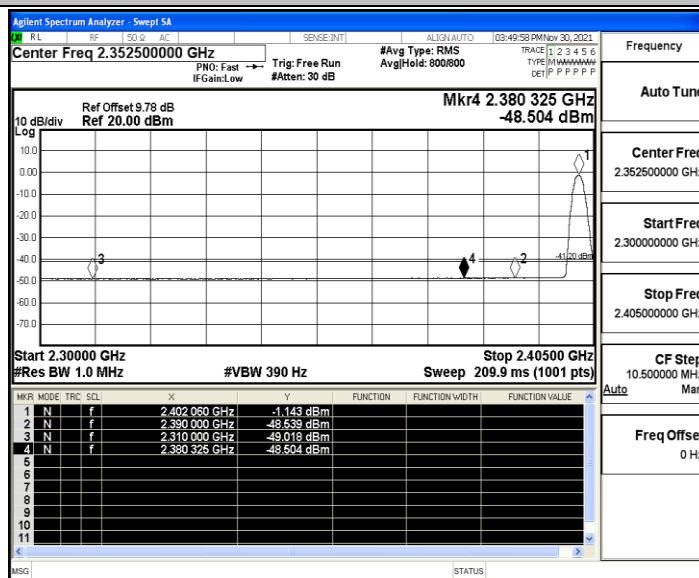




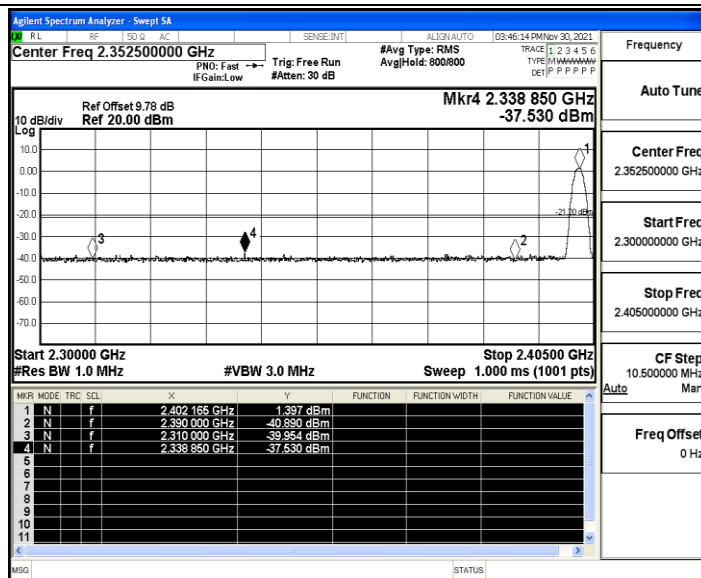
DH5_Ant1_High_Hop_2480_Peak



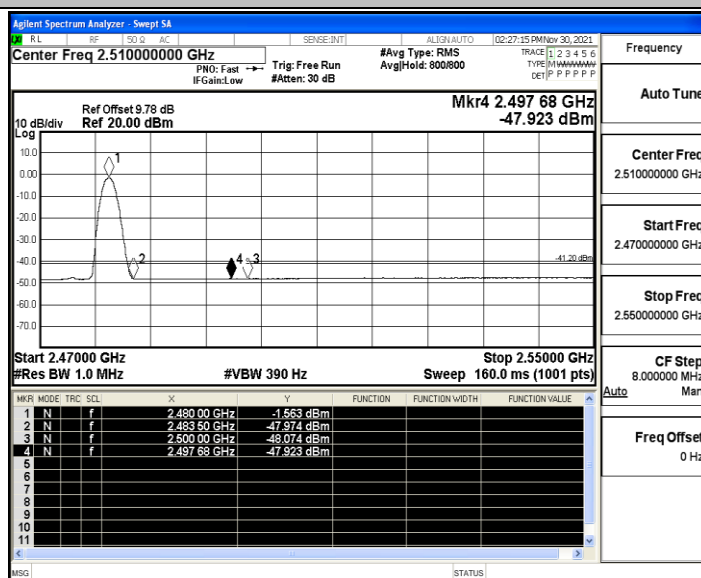
2DH5_Ant1_Low_2402_AV



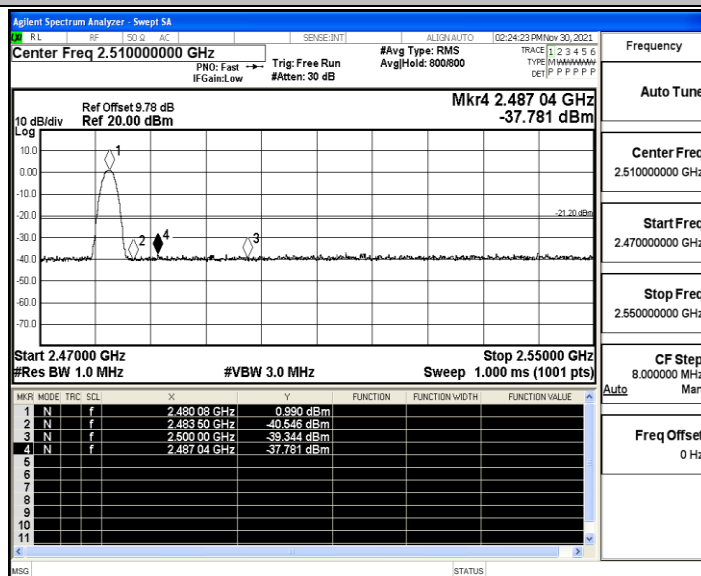
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

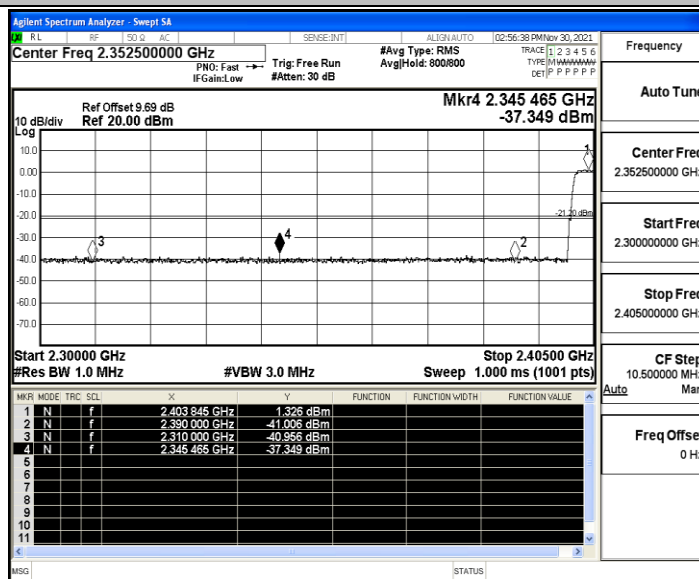


2DH5_Ant1_High_2480_Peak

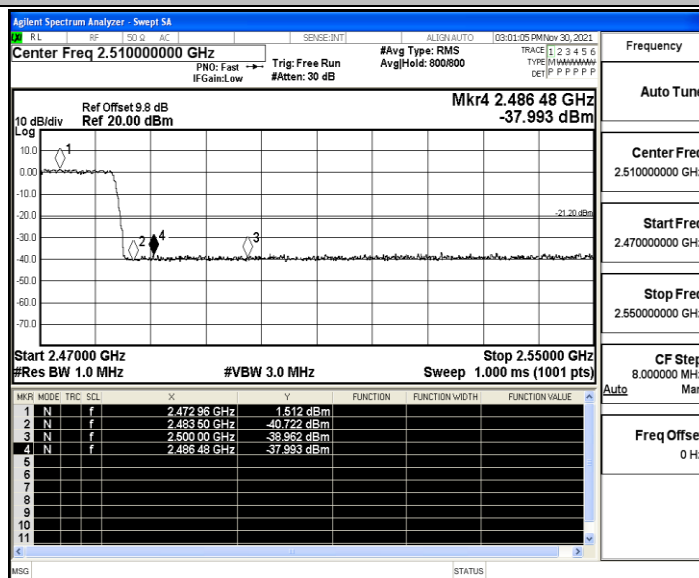




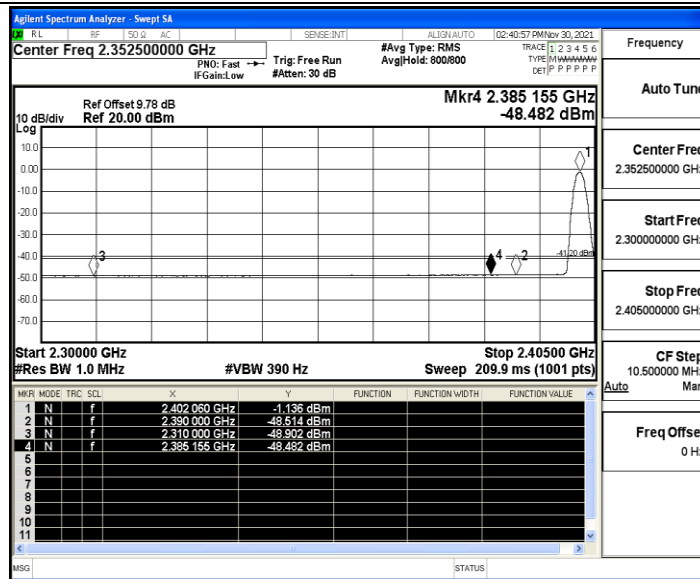
2DH5_Ant1_Low_Hop_2402_Peak



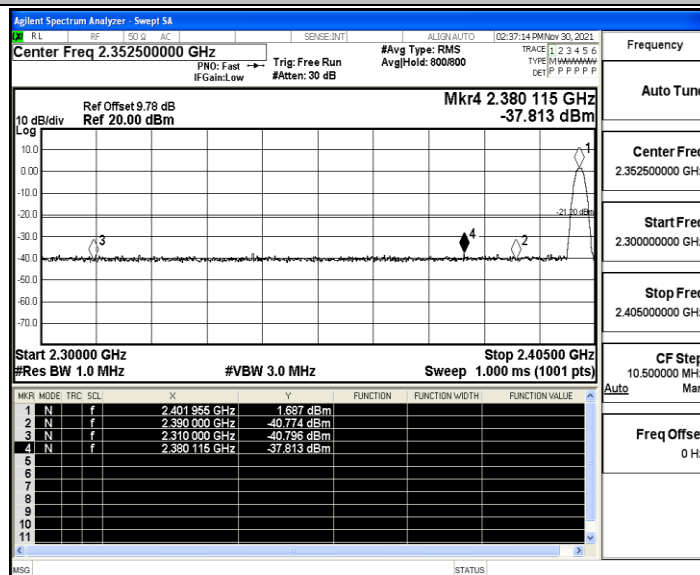
2DH5_Ant1_High_Hop_2480_Peak



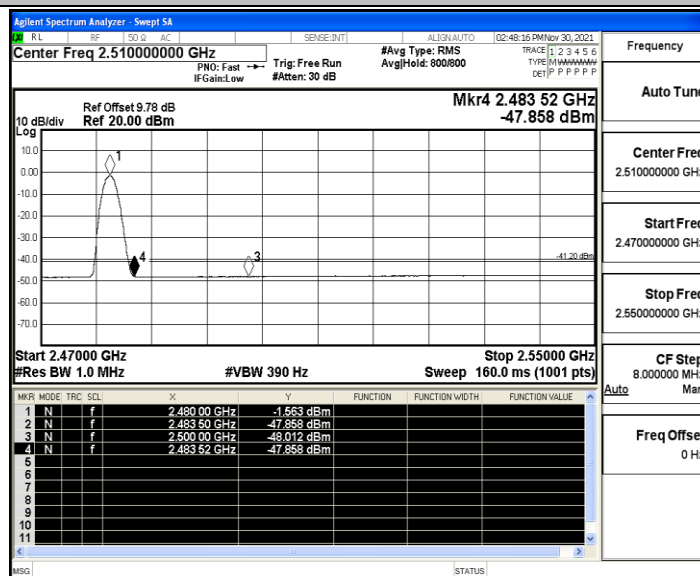
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak

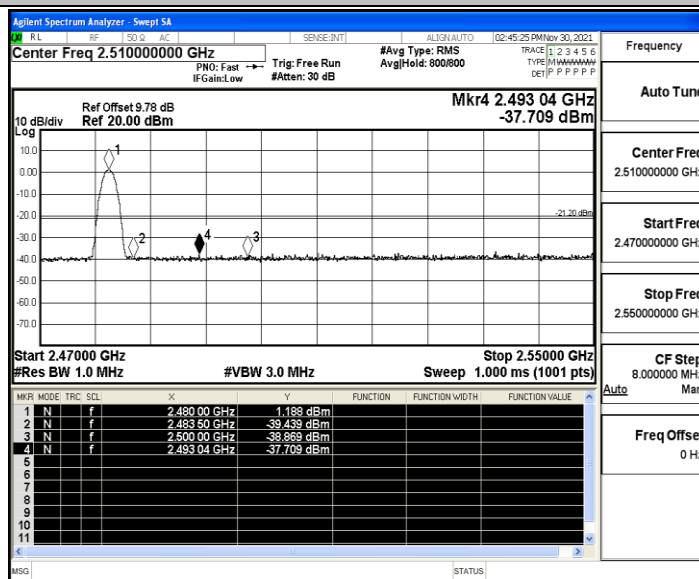


3DH5_Ant1_High_2480_AV

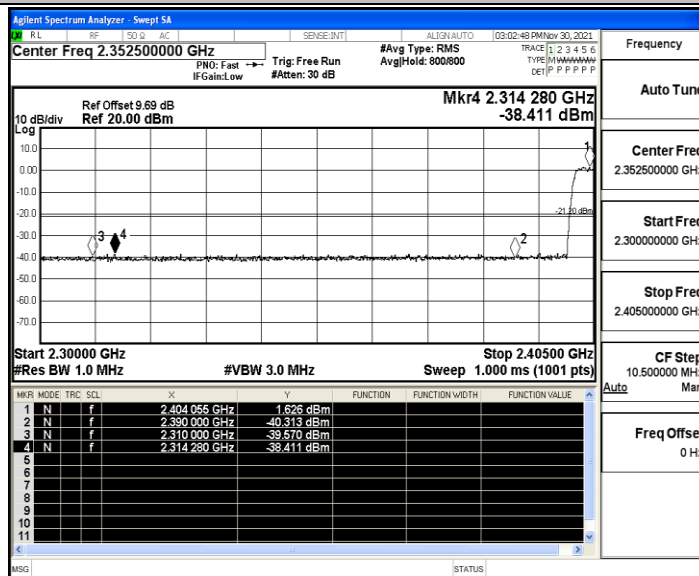




3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak

