



Appendix A

RF Test Data for BT V5.0 (DSS) (Conducted Measurement)

Product Name: Mini Projector

Test Model: D3-H700

Environmental Conditions

Temperature:	23.7℃
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



A.1 20dB Emission Bandwidth

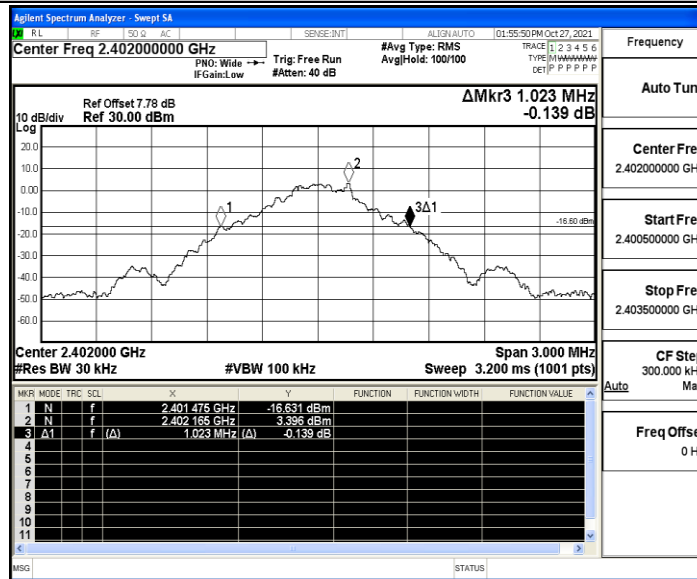
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.023	2401.475	2402.498	---	PASS
		2441	0.963	2440.532	2441.495	---	PASS
		2480	1.038	2479.460	2480.498	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.290	2440.364	2441.654	---	PASS
		2480	1.284	2479.361	2480.645	---	PASS
3DH5	Ant1	2402	1.317	2401.337	2402.654	---	PASS
		2441	1.314	2440.340	2441.654	---	PASS
		2480	1.287	2479.358	2480.645	---	PASS

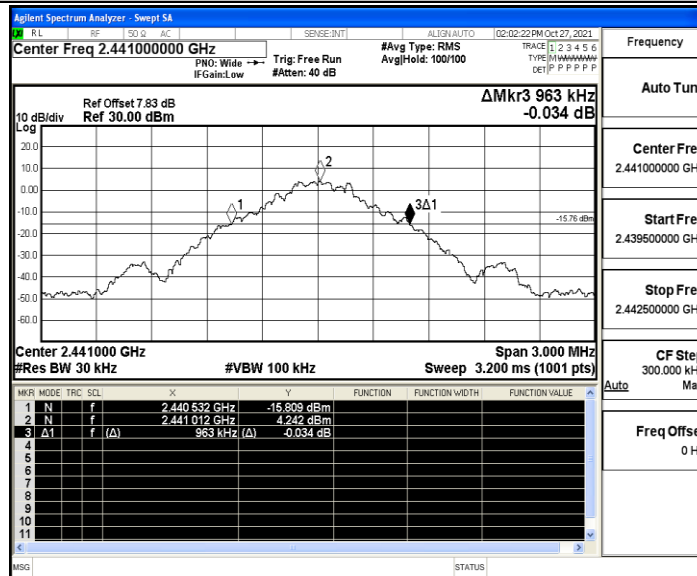


Test Graphs

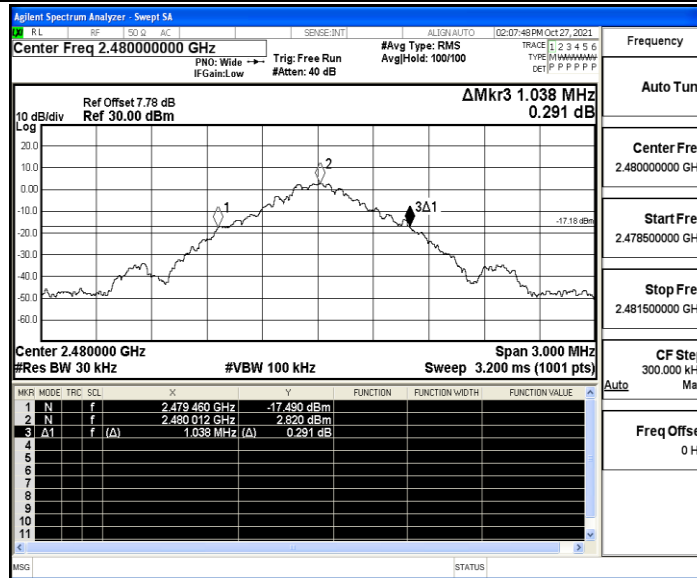
DH5_Ant1_2402



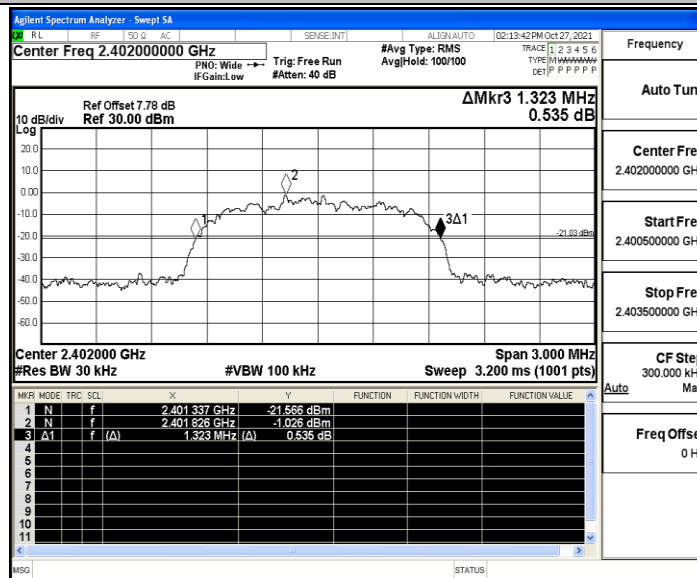
DH5_Ant1_2441



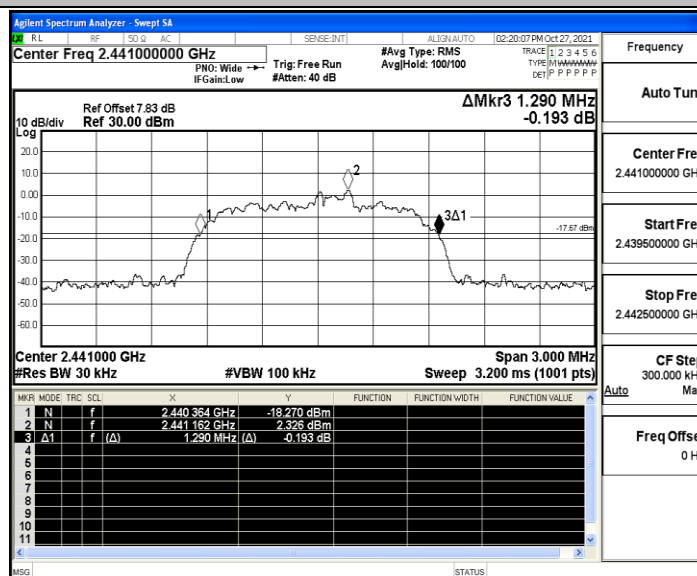
DH5_Ant1_2480



2DH5_Ant1_2402

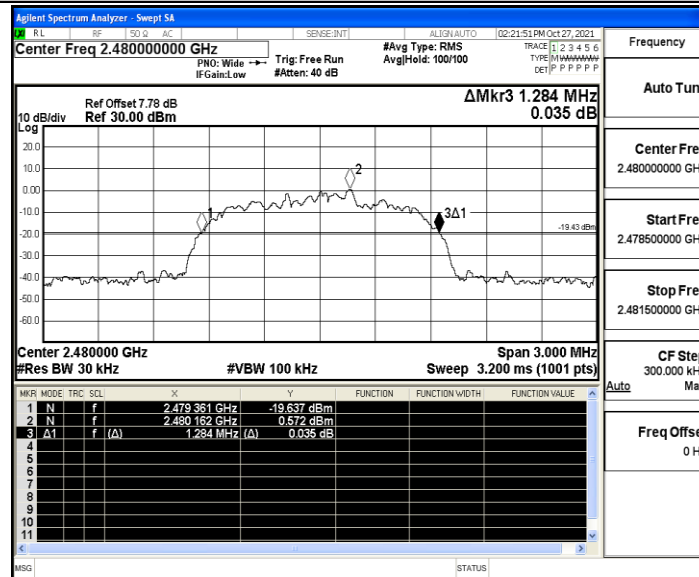


2DH5_Ant1_2441

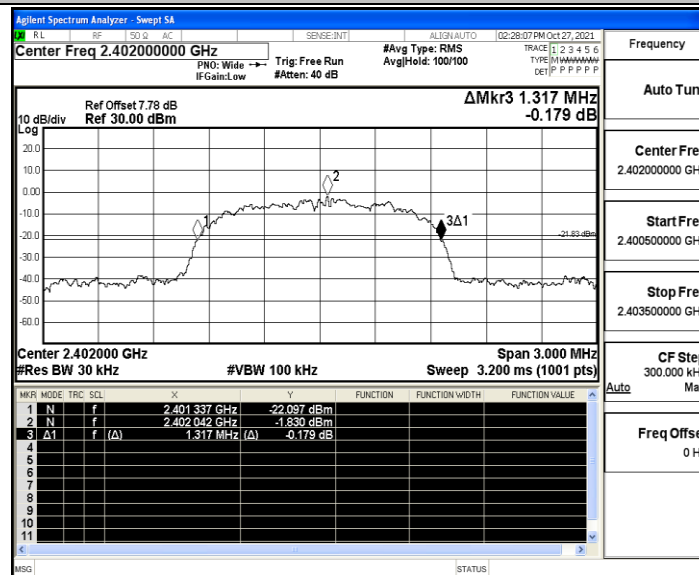




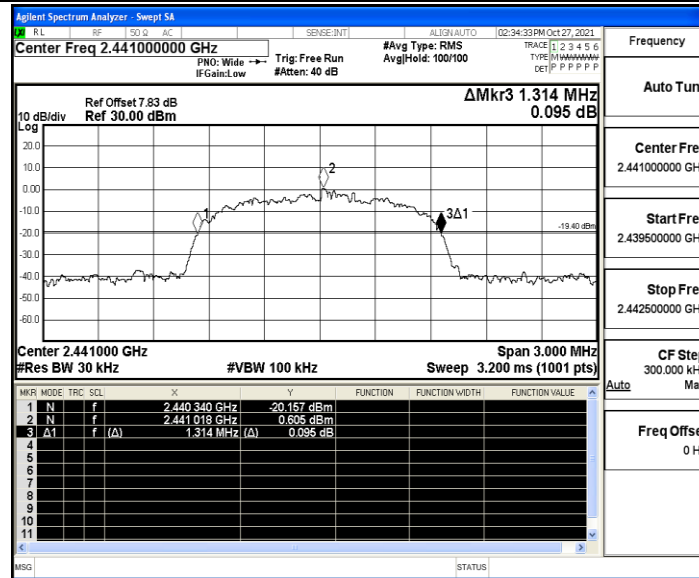
2DH5_Ant1_2480



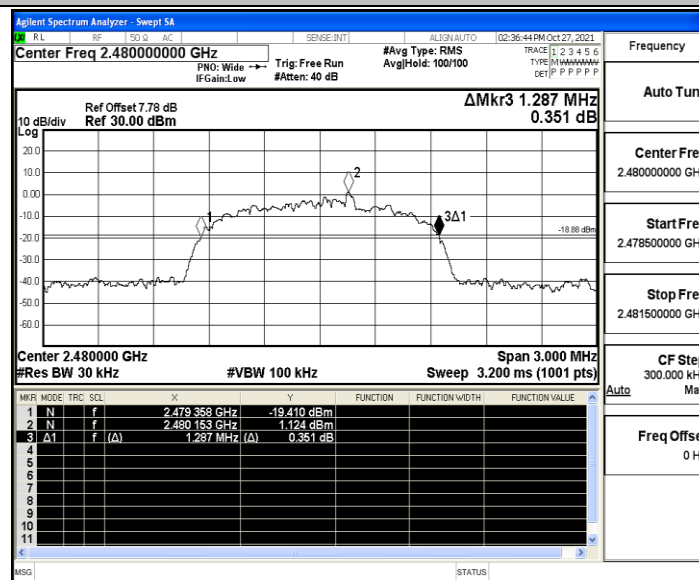
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum peak conducted output power

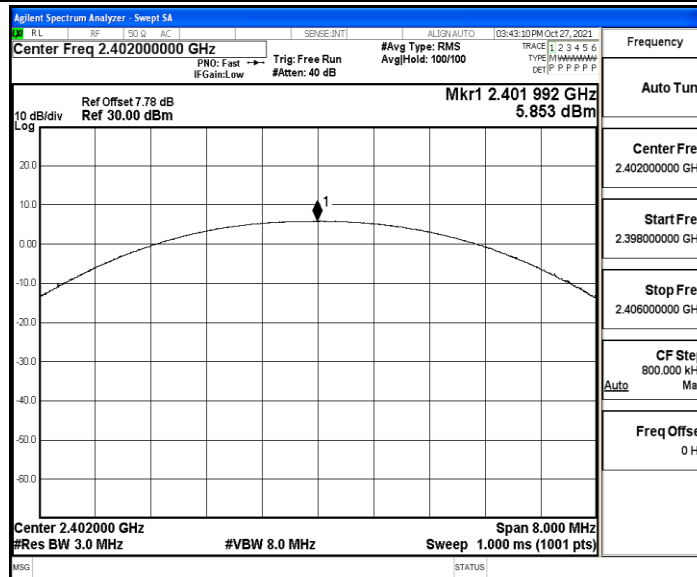
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.85	≤ 20.97	PASS
		2441	7.01	≤ 20.97	PASS
		2480	5.58	≤ 20.97	PASS
2DH5	Ant1	2402	4.97	≤ 20.97	PASS
		2441	6.18	≤ 20.97	PASS
		2480	4.7	≤ 20.97	PASS
3DH5	Ant1	2402	5.13	≤ 20.97	PASS
		2441	6.3	≤ 20.97	PASS
		2480	4.86	≤ 20.97	PASS

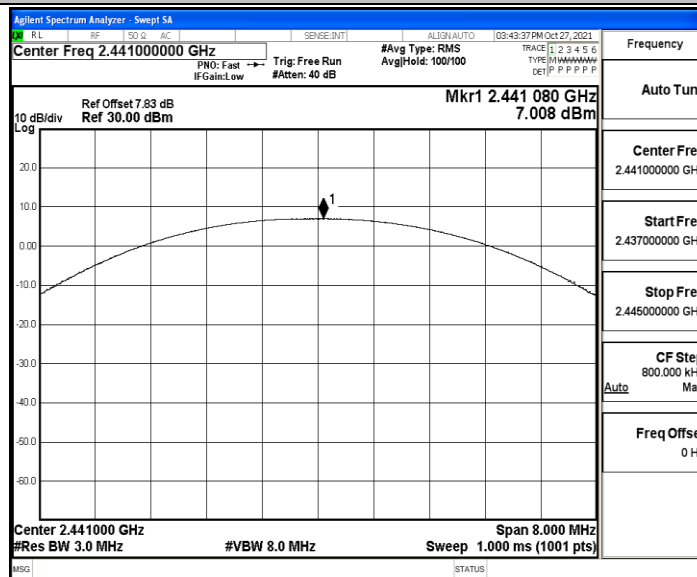


Test Graphs

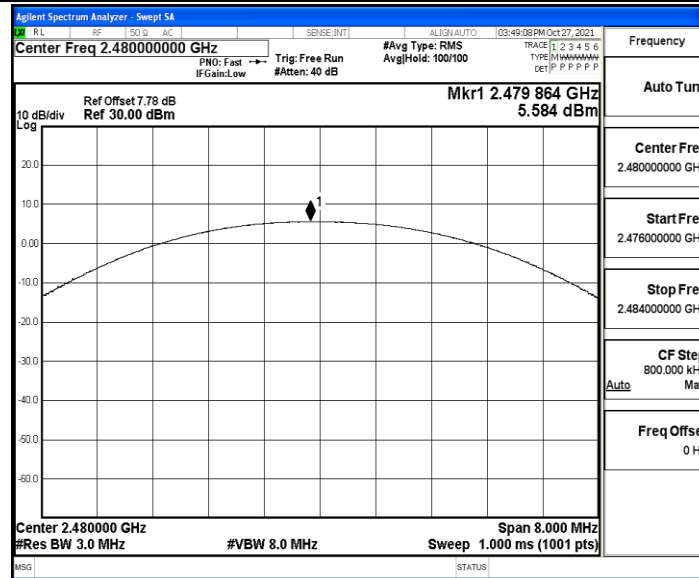
DH5_Ant1_2402



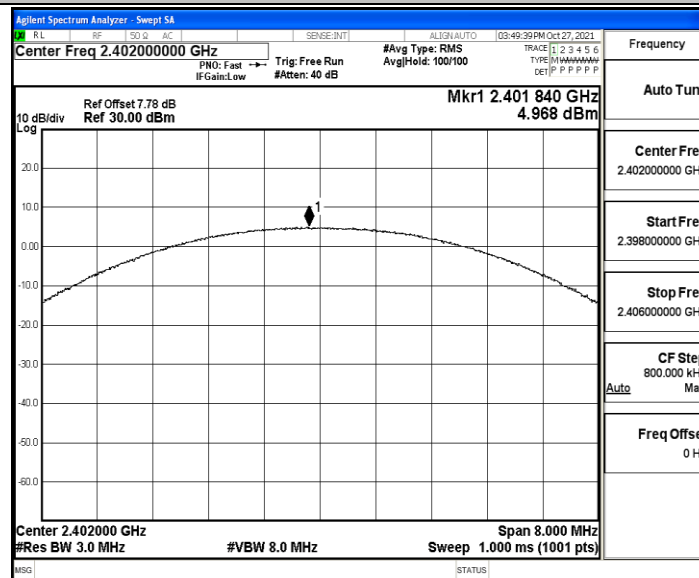
DH5_Ant1_2441



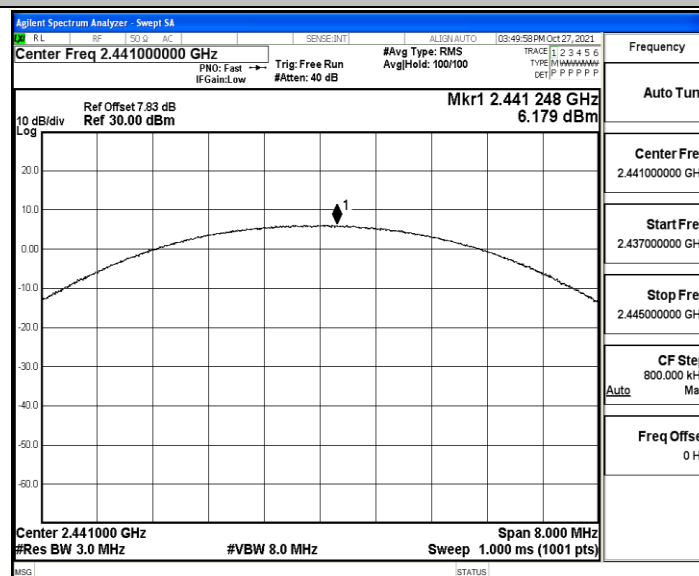
DH5_Ant1_2480



2DH5_Ant1_2402

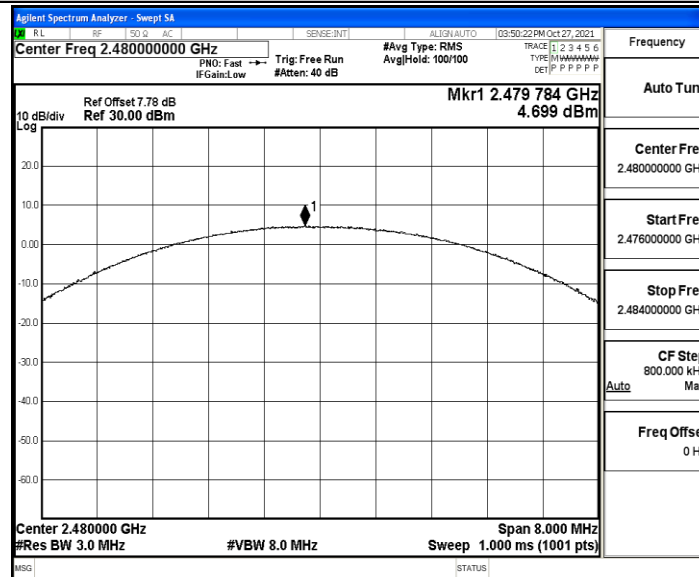


2DH5_Ant1_2441

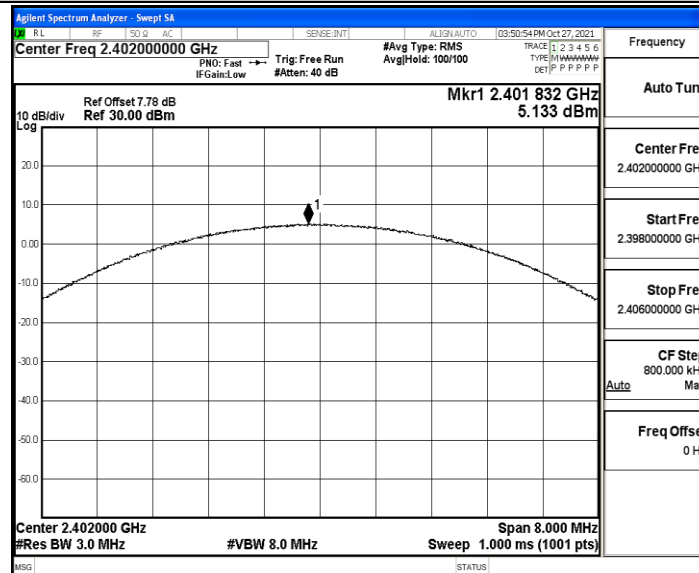




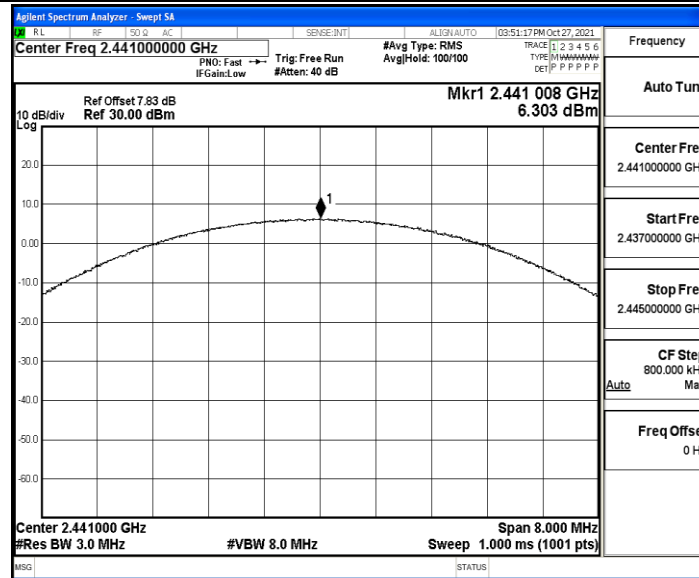
2DH5_Ant1_2480



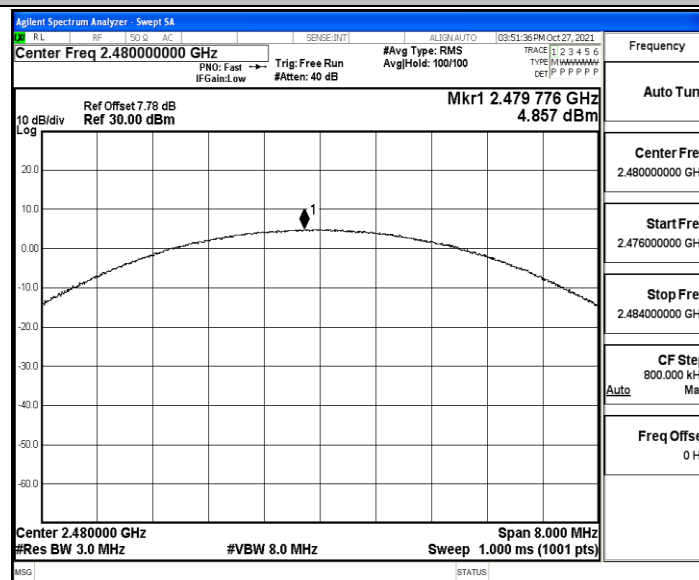
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

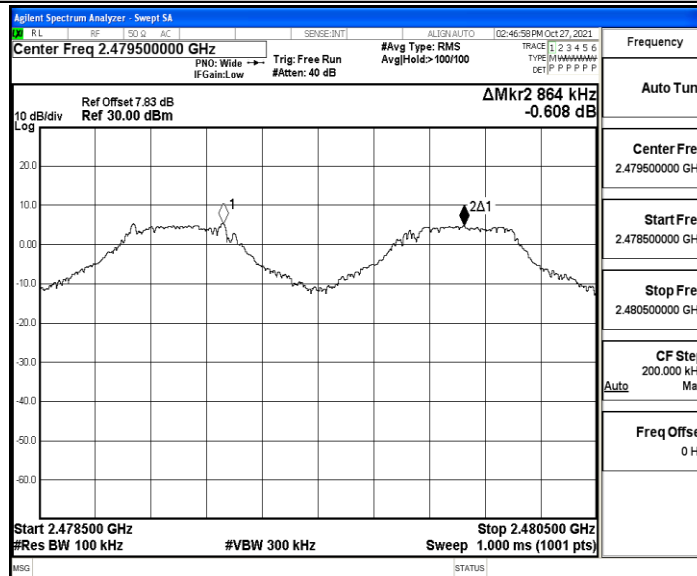
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.864	≥ 0.692	PASS
2DH5	Ant1	Hop	1.022	≥ 0.882	PASS
3DH5	Ant1	Hop	1.006	≥ 0.878	PASS

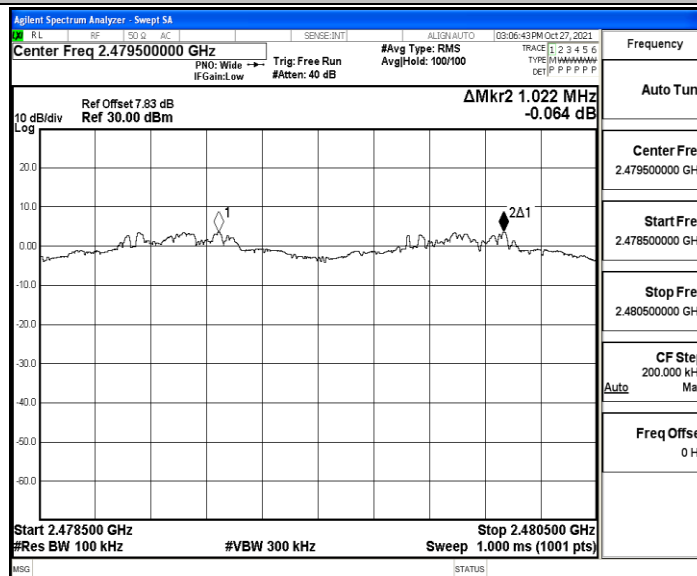


Test Graphs

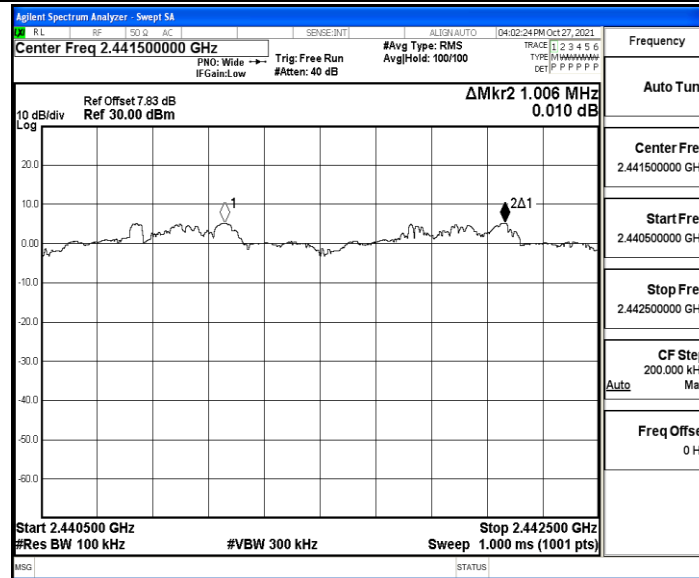
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.4 Time of occupancy

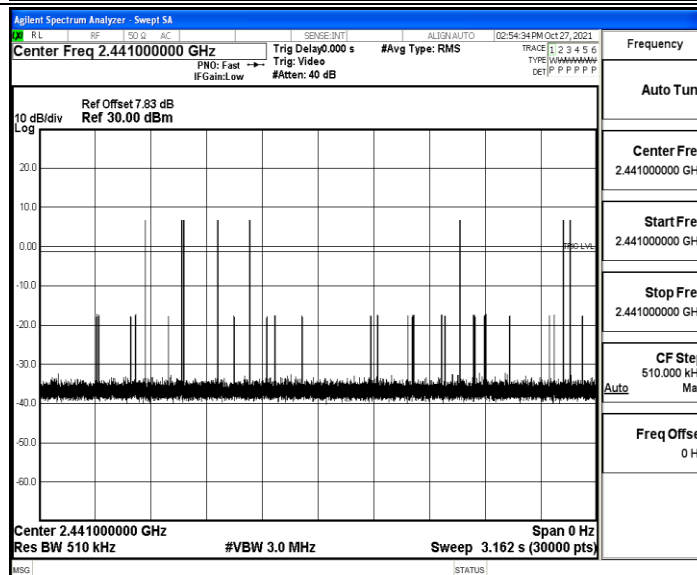
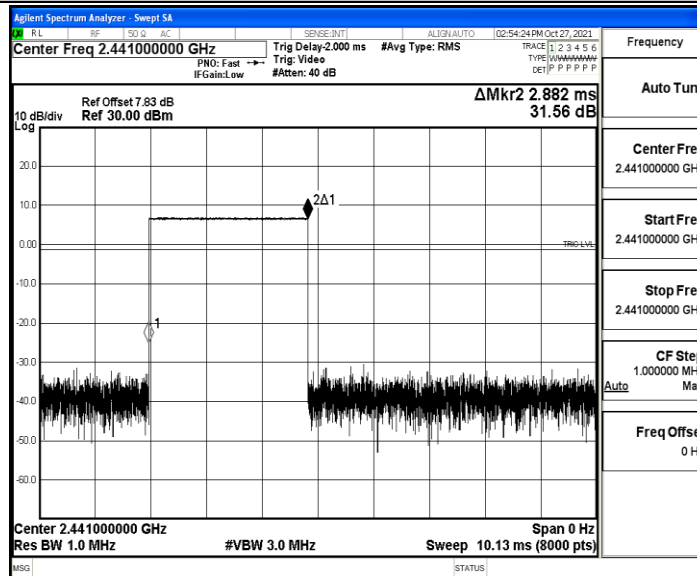
Test Result

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	90	0.26	≤0.4	PASS

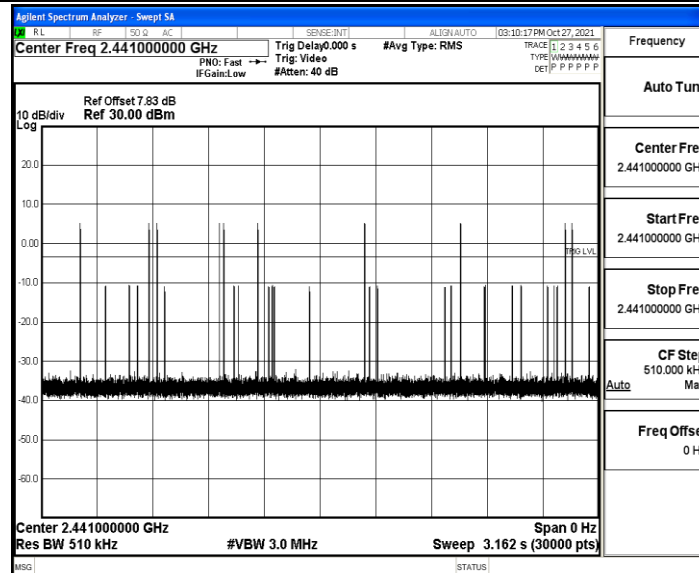
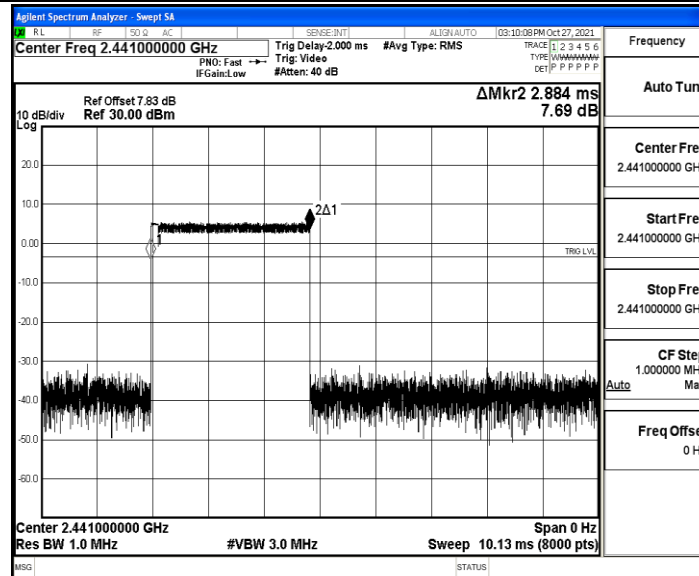


Test Graphs

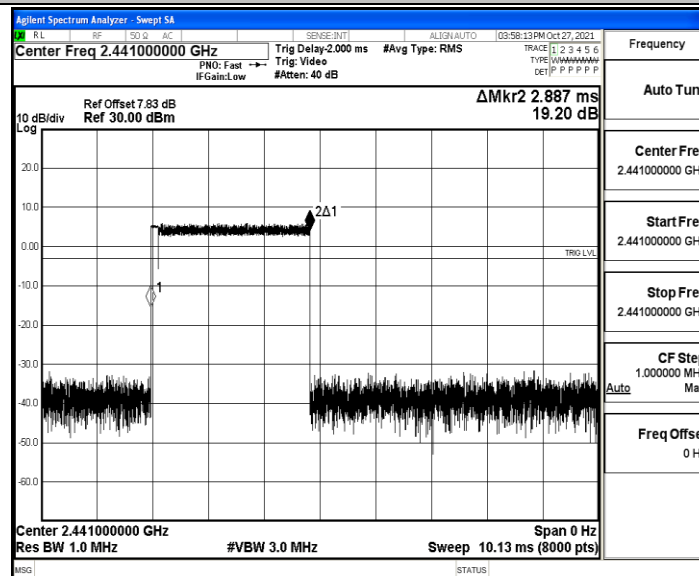
DH5_Ant1_Hop

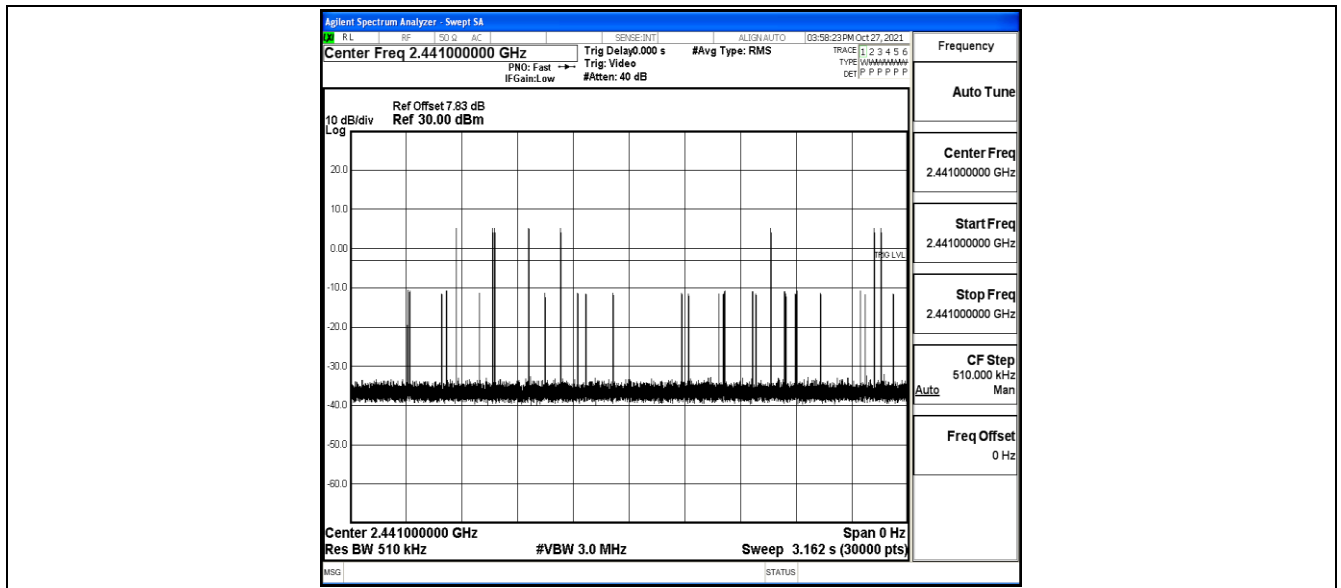


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

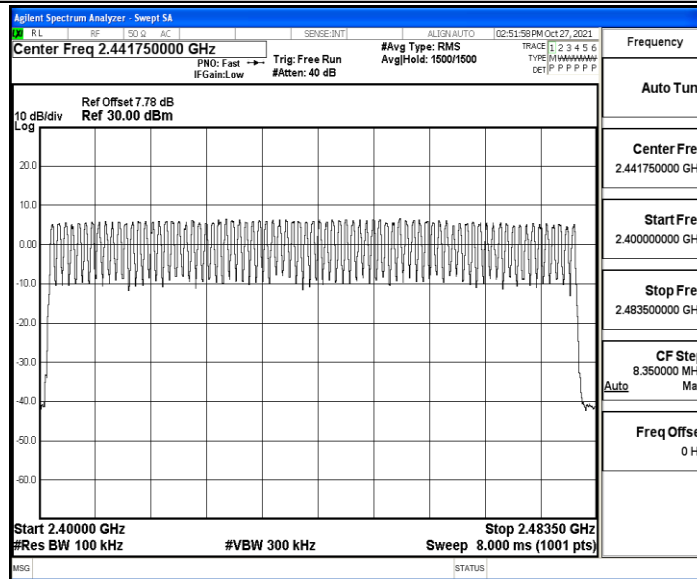
Test Result

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

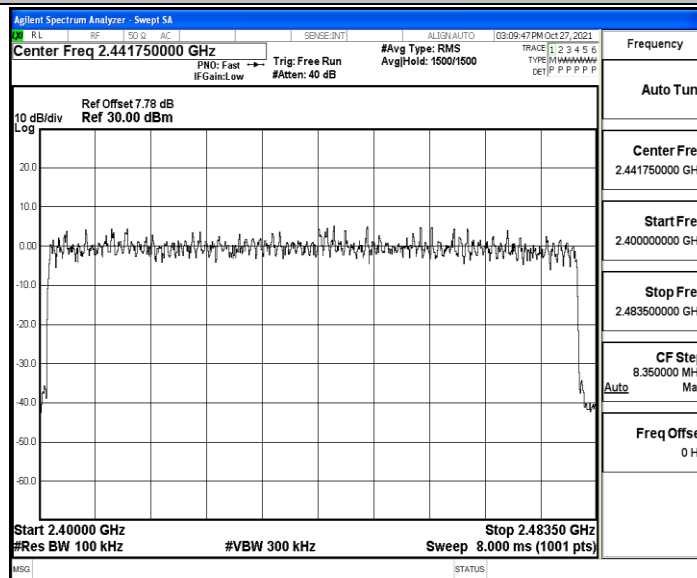


Test Graphs

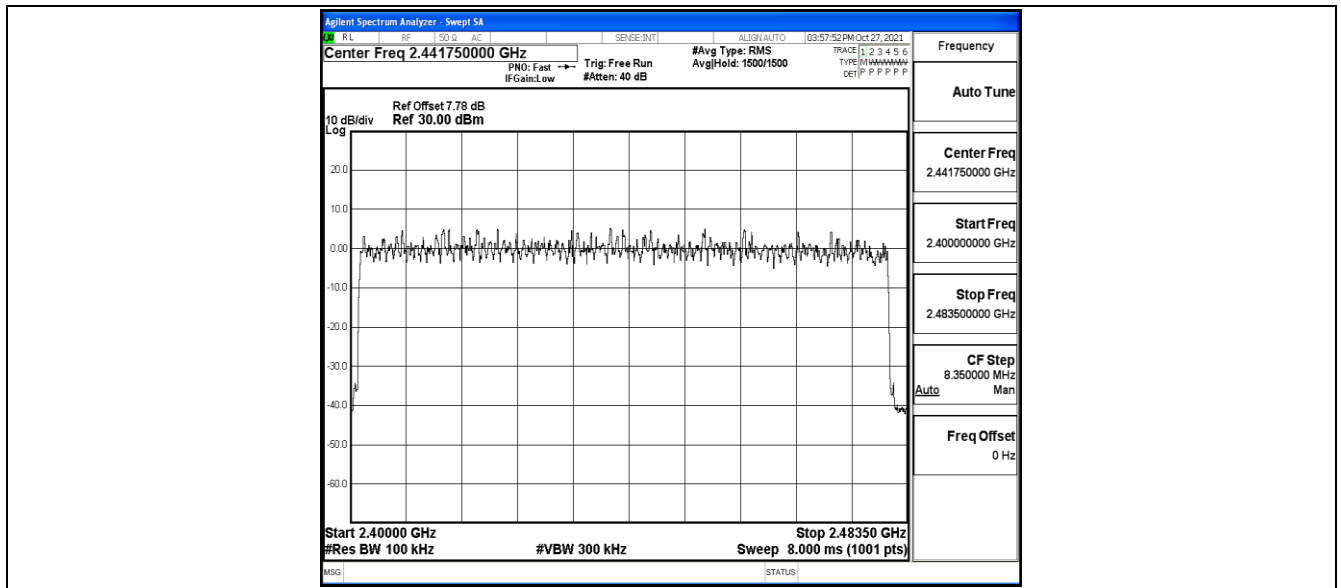
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

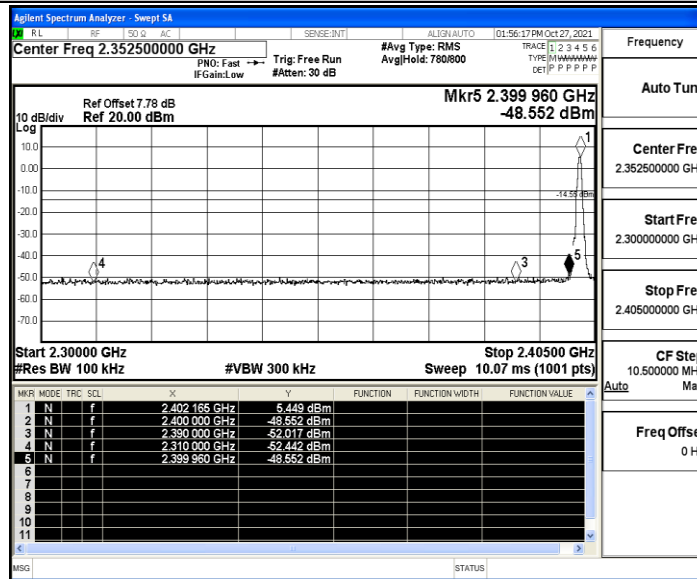
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.45	-48.55	≤ -14.55	PASS
		High	2480	5.38	-47.49	≤ -14.62	PASS
		Low	Hop_2402	5.30	-49.52	≤ -14.7	PASS
		High	Hop_2480	5.50	-48.31	≤ -14.5	PASS
2DH5	Ant1	Low	2402	3.62	-48.99	≤ -16.38	PASS
		High	2480	3.26	-48.36	≤ -16.74	PASS
		Low	Hop_2402	2.01	-48.83	≤ -17.99	PASS
		High	Hop_2480	4.16	-48.62	≤ -15.84	PASS
3DH5	Ant1	Low	2402	3.82	-49.71	≤ -16.18	PASS
		High	2480	3.87	-48.37	≤ -16.13	PASS
		Low	Hop_2402	3.27	-49.76	≤ -16.73	PASS

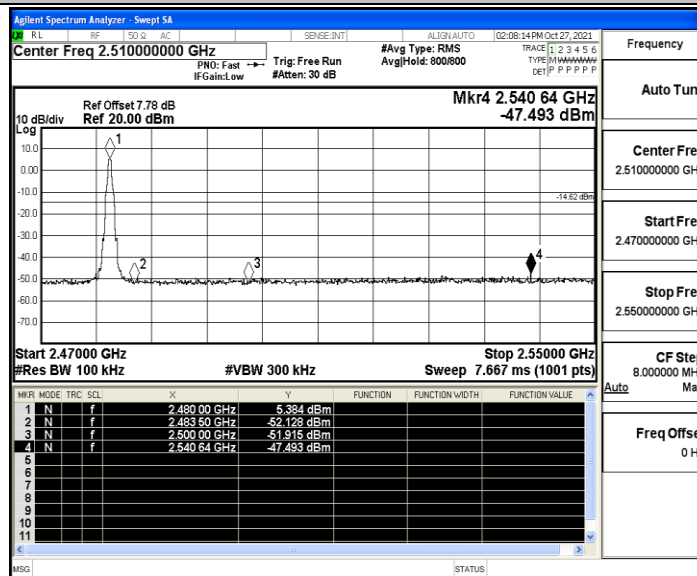


Test Graphs

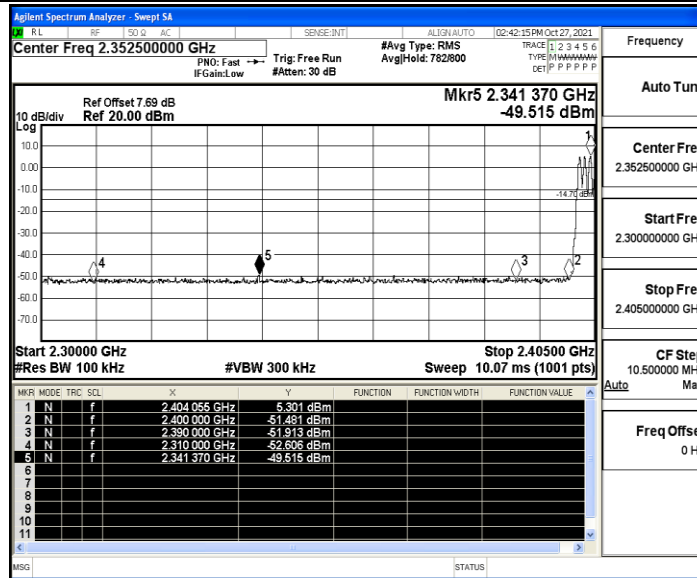
DH5_Ant1_Low_2402



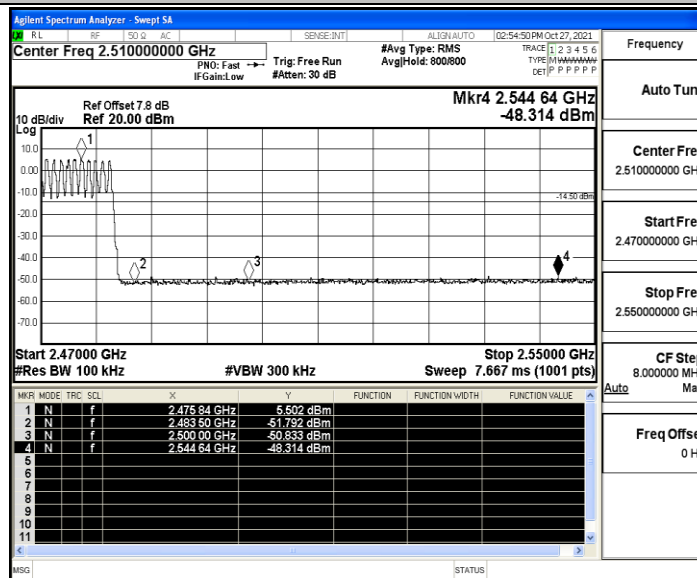
DH5_Ant1_High_2480



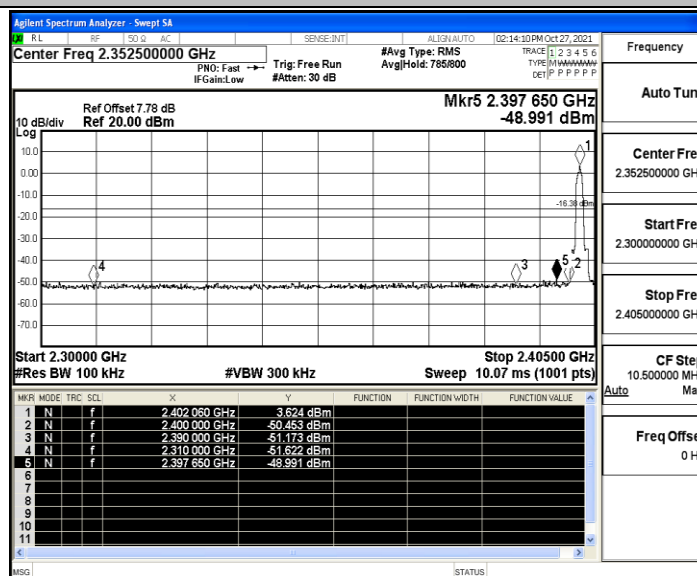
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

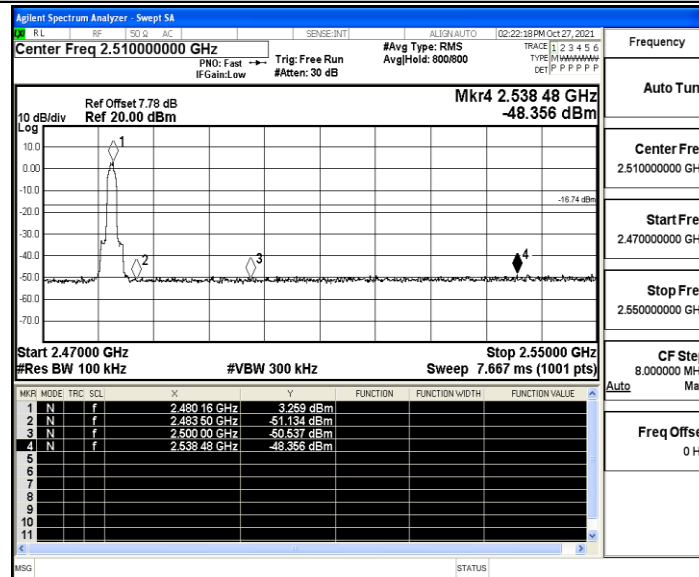


2DH5_Ant1_Low_2402

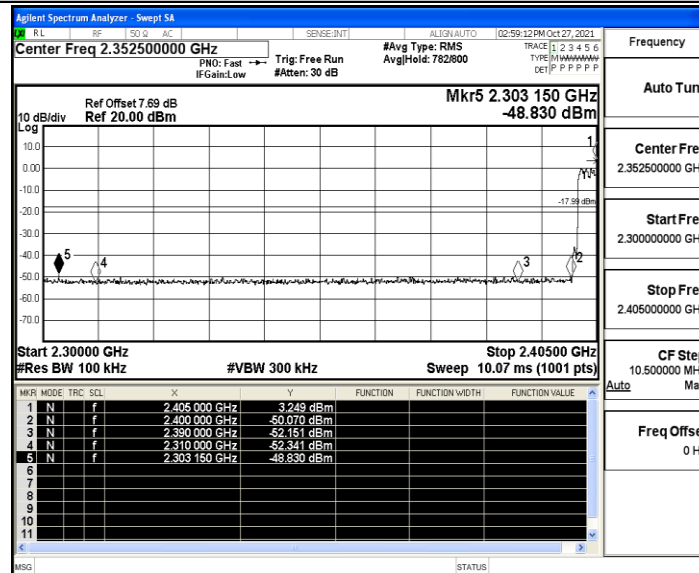




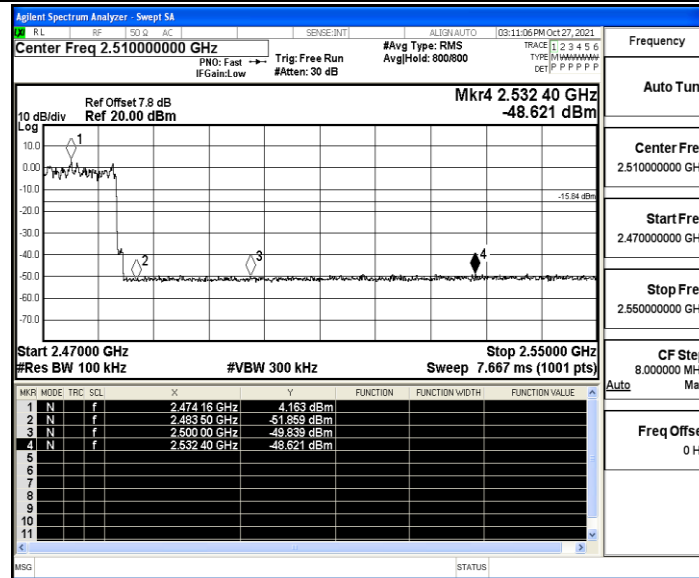
2DH5_Ant1_High_2480



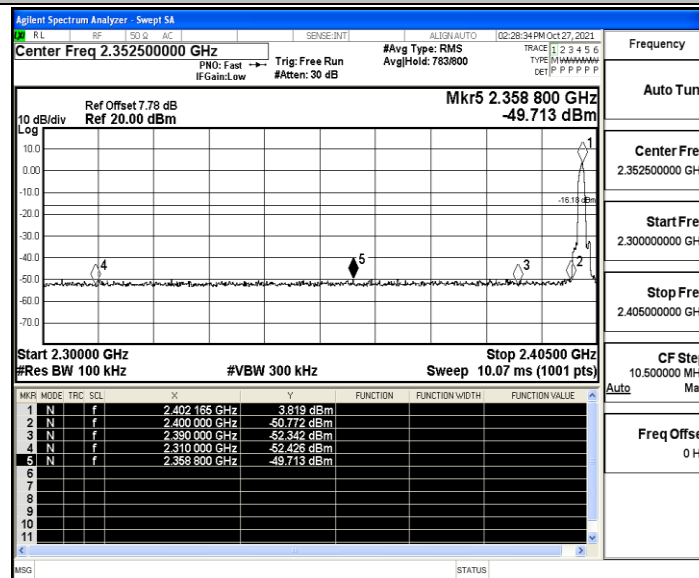
2DH5_Ant1_Low_Hop_2402



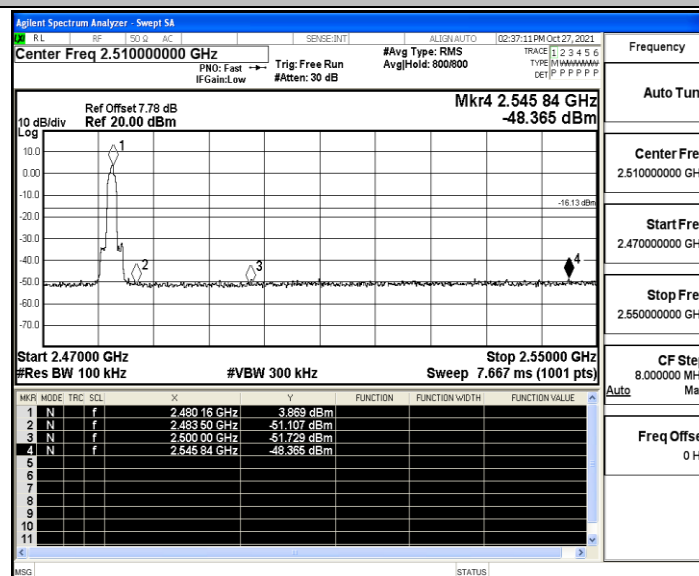
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

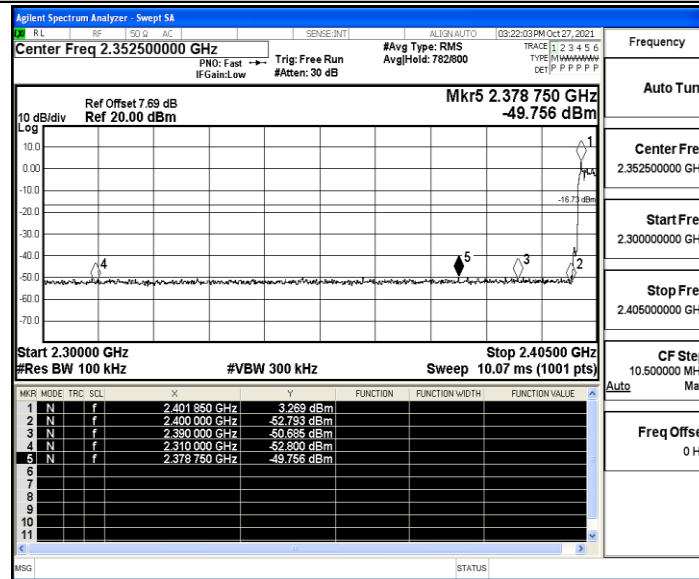


3DH5_Ant1_High_2480





3DH5_Ant1_Low_Hop_2402





A.7 Conducted Spurious Emission

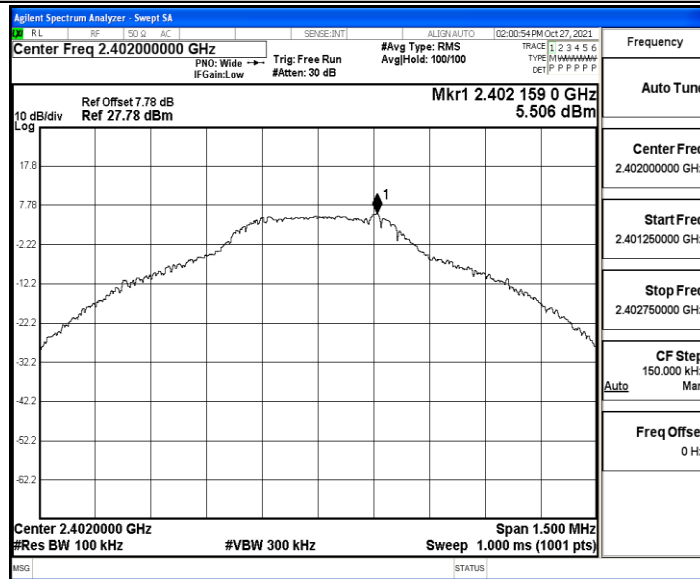
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.51	5.51	---	PASS
			30~1000	5.51	-61.48	≤ -14.49	PASS
			1000~26500	5.51	-47.08	≤ -14.49	PASS
		2441	Reference	6.58	6.58	---	PASS
			30~1000	6.58	-60.89	≤ -13.42	PASS
			1000~26500	6.58	-46.59	≤ -13.42	PASS
		2480	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-62.13	≤ -15.3	PASS
			1000~26500	4.71	-47.81	≤ -15.3	PASS
2DH5	Ant1	2402	Reference	3.71	3.71	---	PASS
			30~1000	3.71	-61.28	≤ -16.29	PASS
			1000~26500	3.71	-46.51	≤ -16.29	PASS
		2441	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-61.95	≤ -16.22	PASS
			1000~26500	3.78	-46.21	≤ -16.22	PASS
		2480	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-61.34	≤ -16.5	PASS
			1000~26500	3.50	-47.51	≤ -16.5	PASS
3DH5	Ant1	2402	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-61.21	≤ -16.75	PASS
			1000~26500	3.26	-46.56	≤ -16.75	PASS
		2441	Reference	4.99	4.99	---	PASS
			30~1000	4.99	-61.39	≤ -15.01	PASS
			1000~26500	4.99	-47.31	≤ -15.01	PASS
		2480	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-61.85	≤ -16.25	PASS
			1000~26500	3.75	-47.58	≤ -16.25	PASS

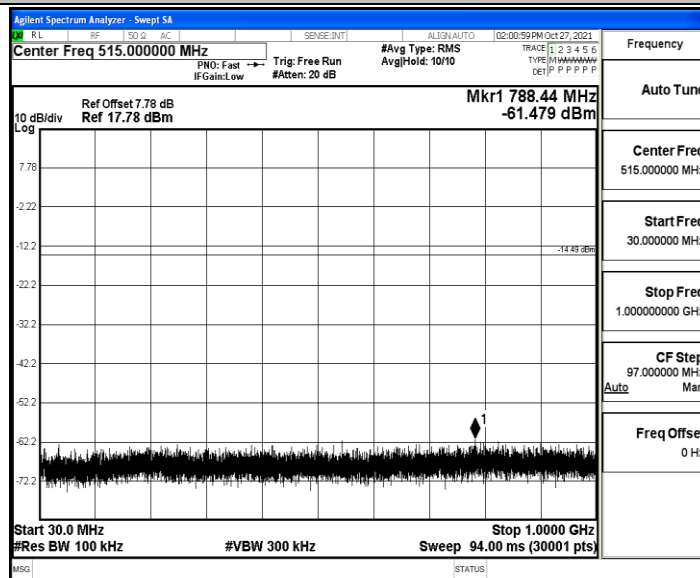


Test Graphs

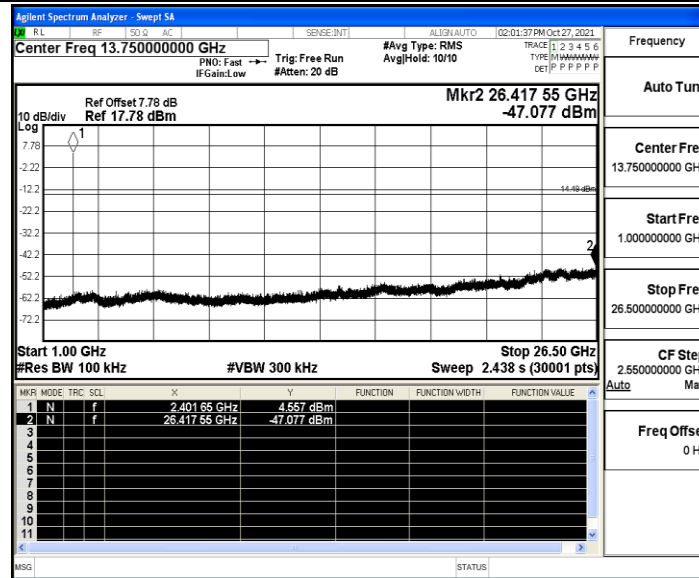
DH5_Ant1_2402_0-Reference



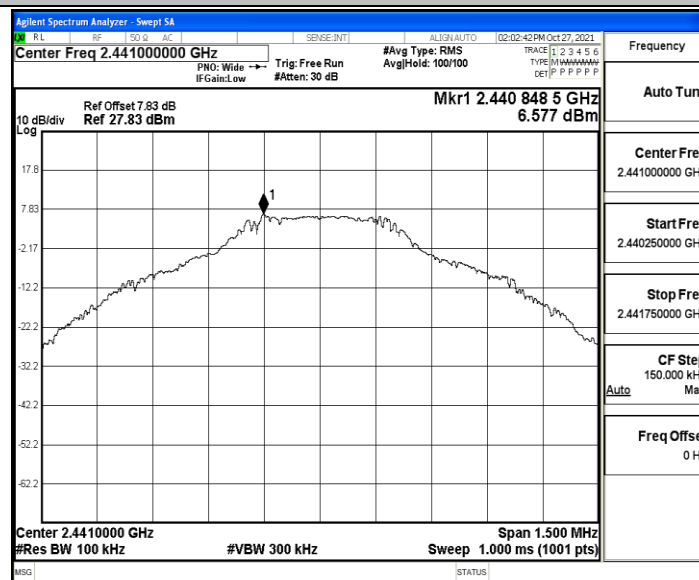
DH5_Ant1_2402_30-1000



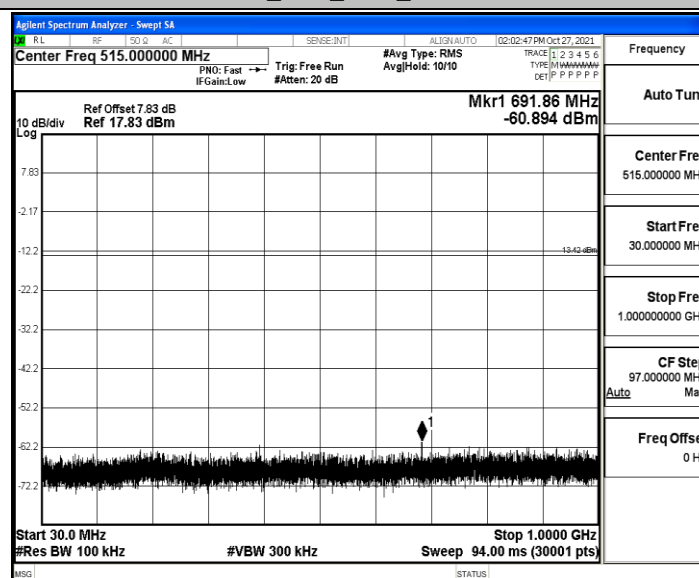
DH5_Ant1_2402_1000-26500



DH5_Ant1_2441_0-Reference

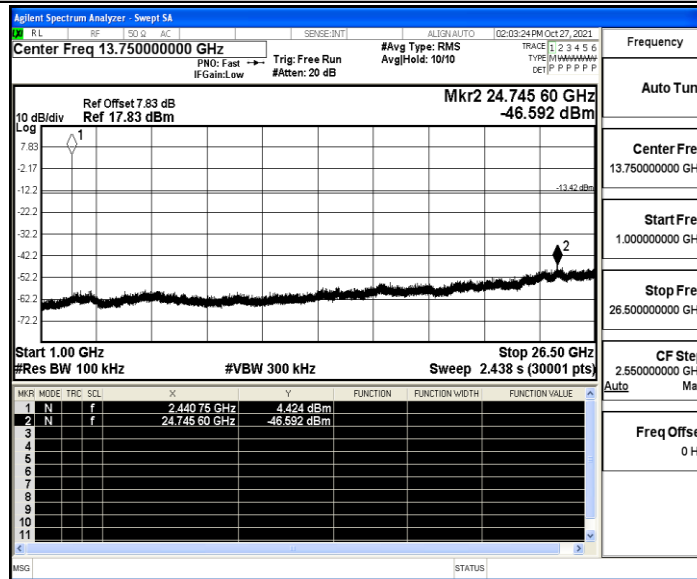


DH5_Ant1_2441_30-1000

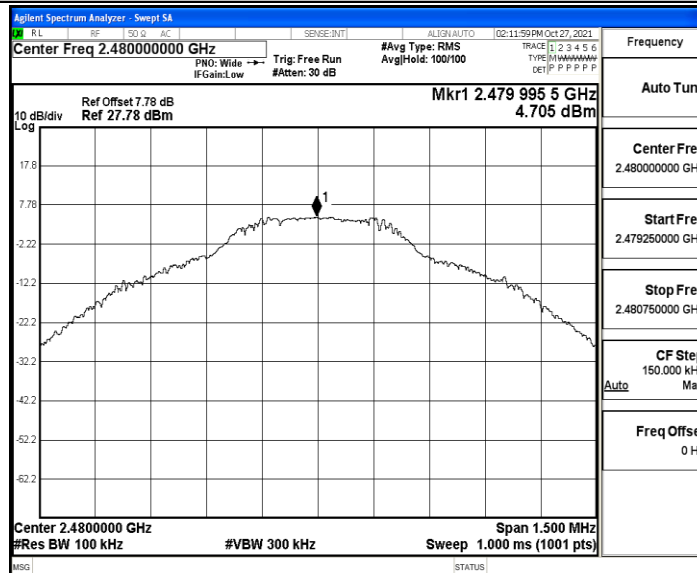




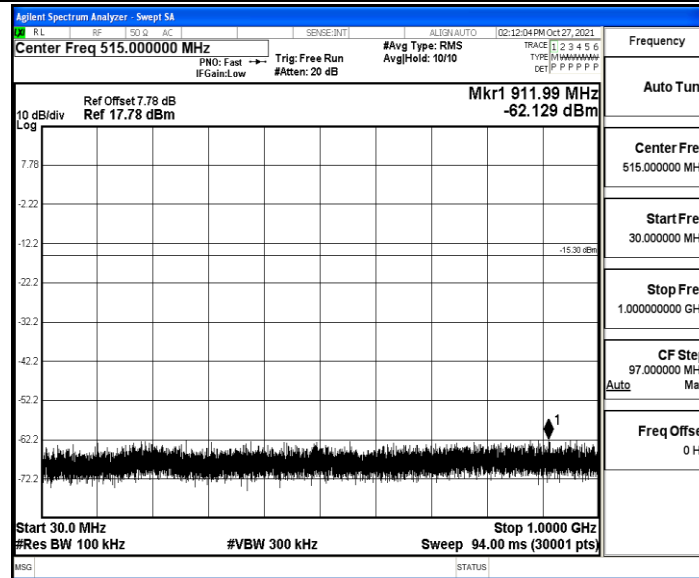
DH5_Ant1_2441_1000~26500



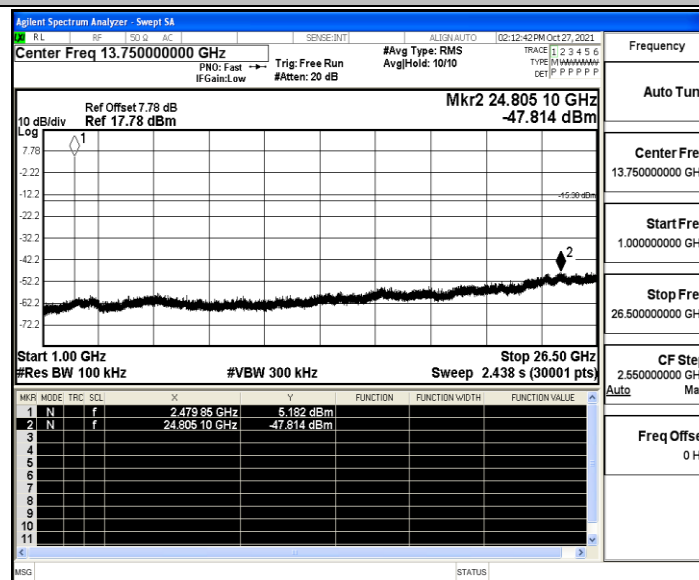
DH5_Ant1_2480_0~Reference



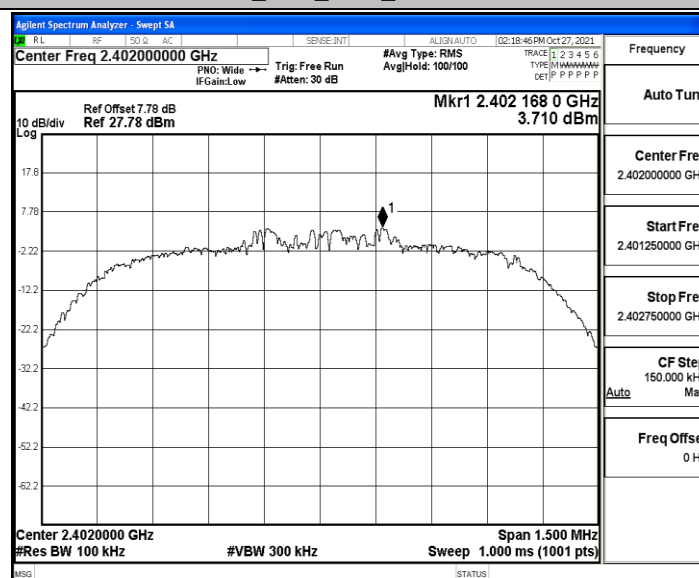
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

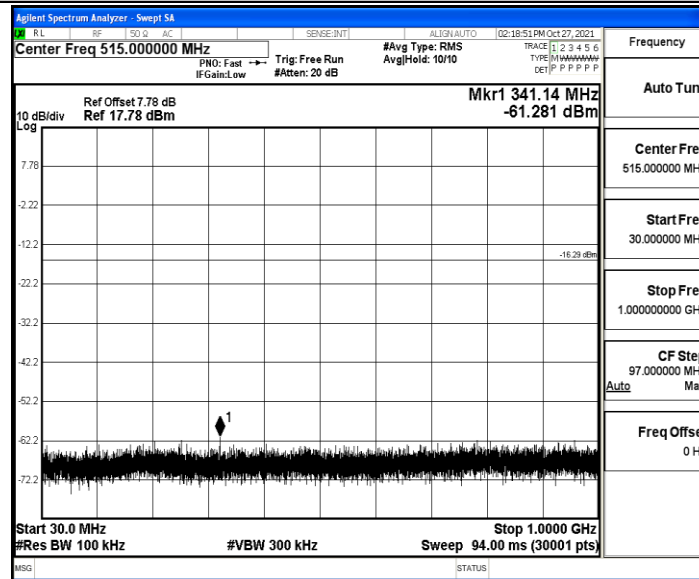


2DH5_Ant1_2402_0~Reference

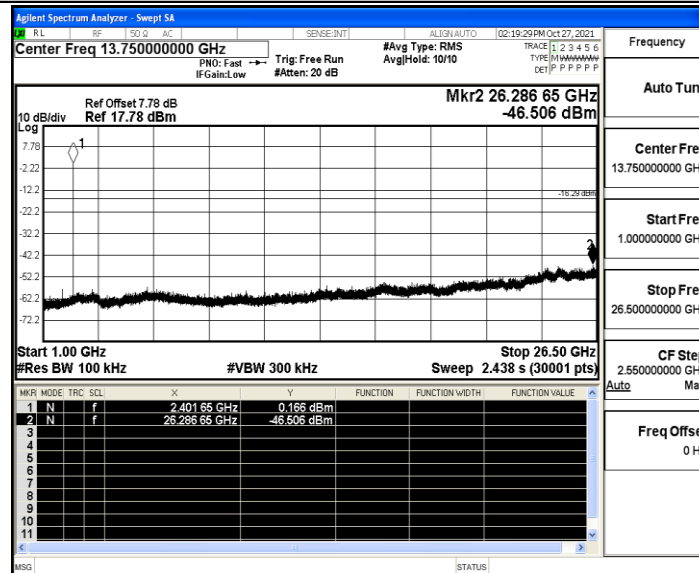




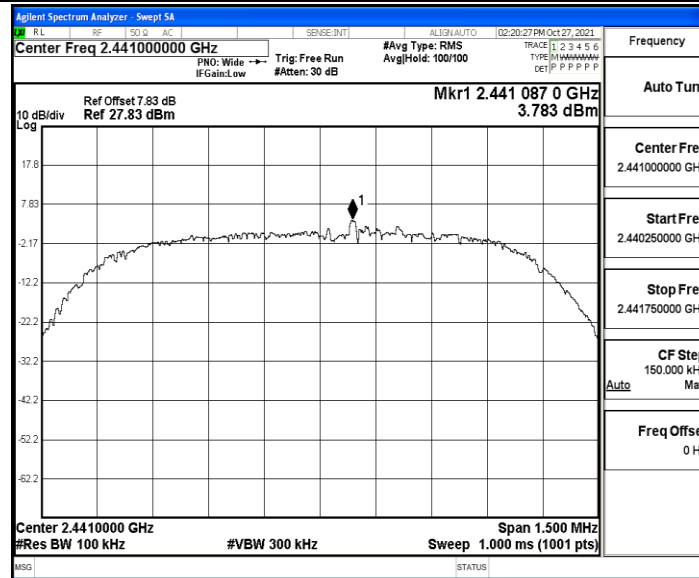
2DH5_Ant1_2402_30~1000



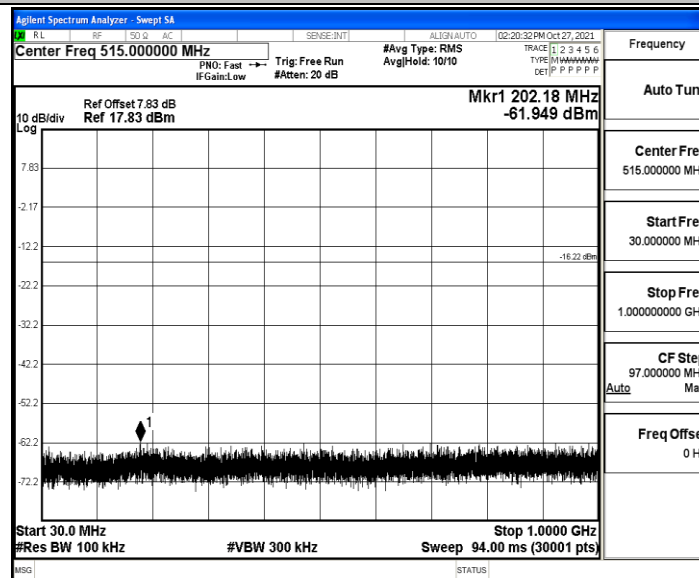
2DH5_Ant1_2402_1000~26500



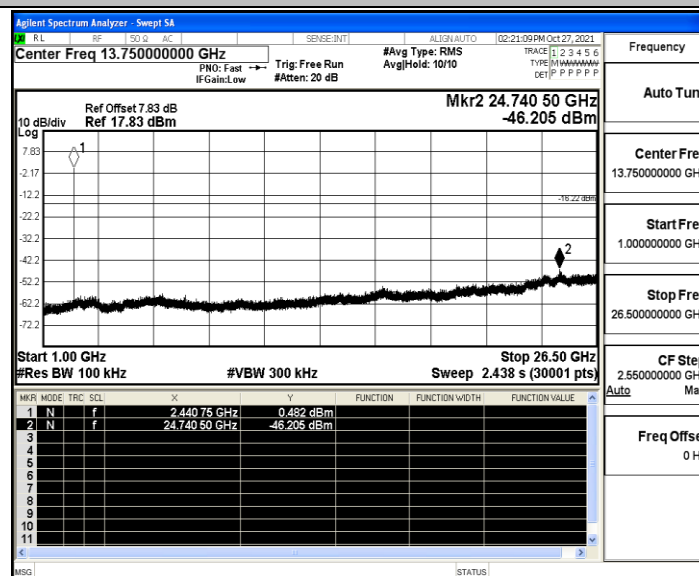
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

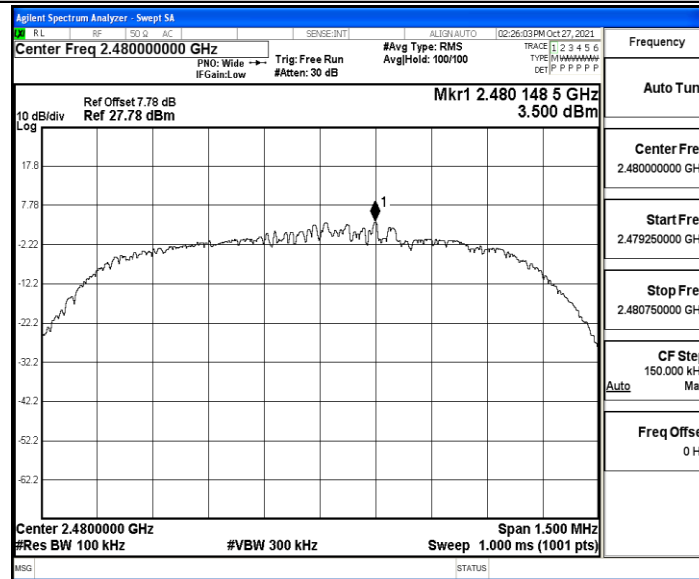


2DH5_Ant1_2441_1000~26500

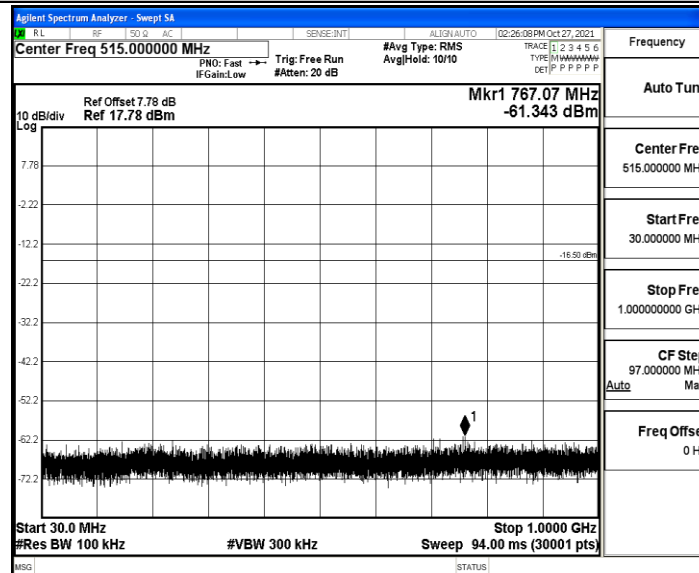




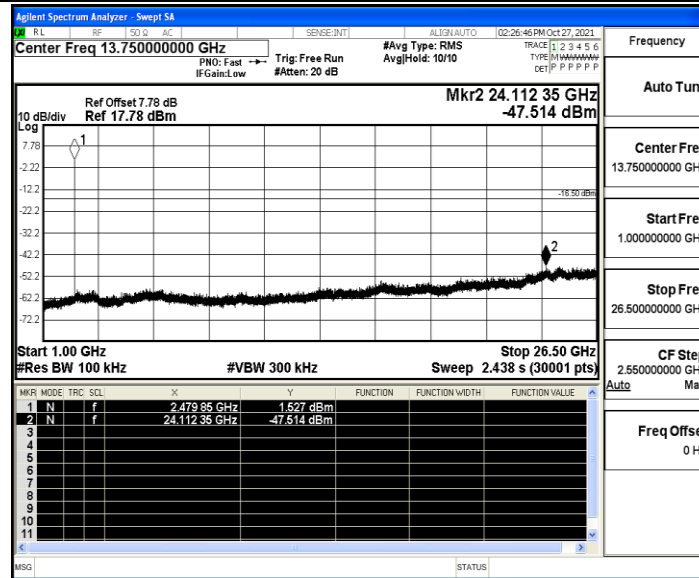
2DH5_Ant1_2480_0-Reference



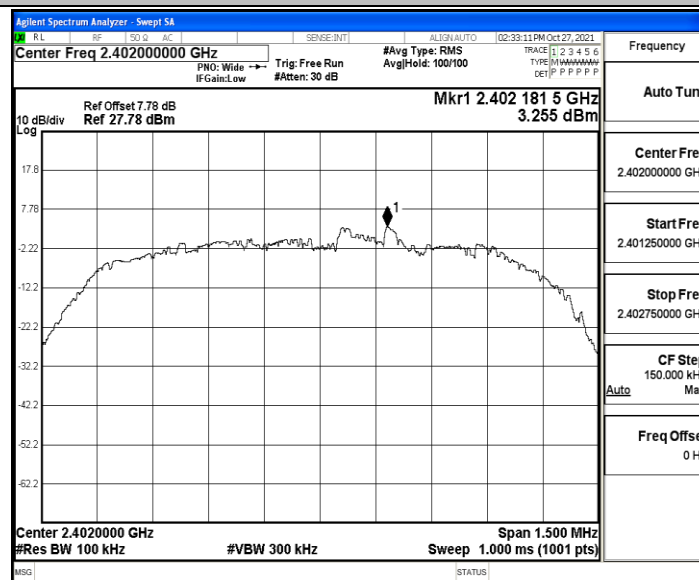
2DH5_Ant1_2480_30~1000



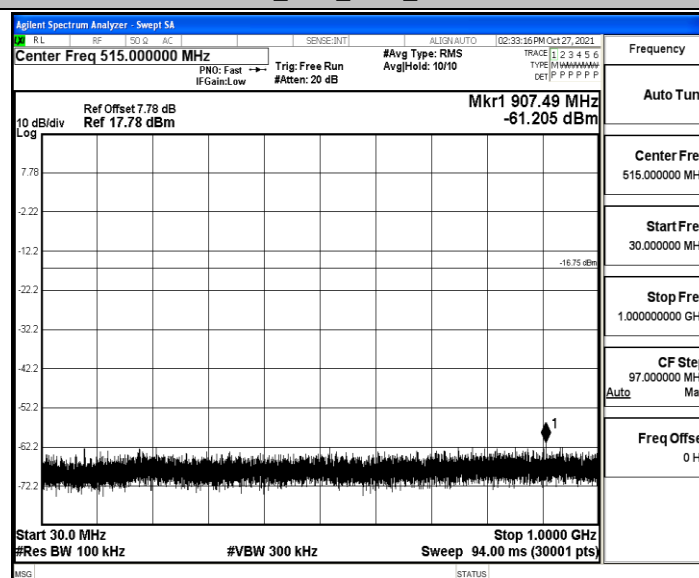
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0-Reference

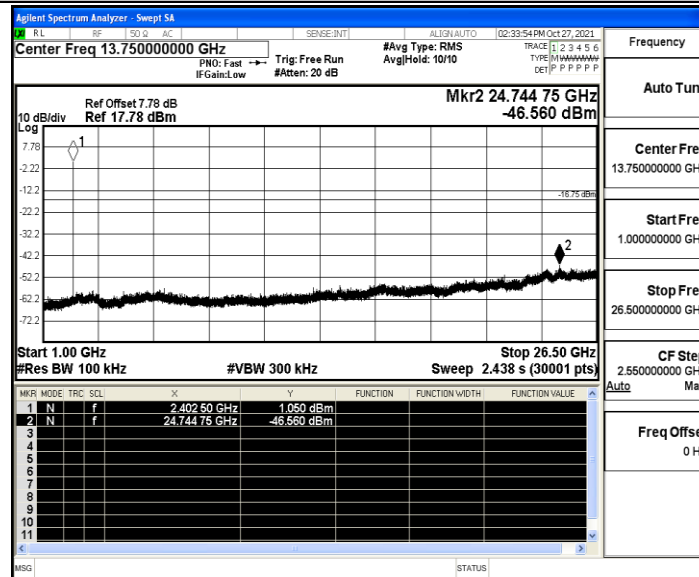


3DH5_Ant1_2402_30~1000

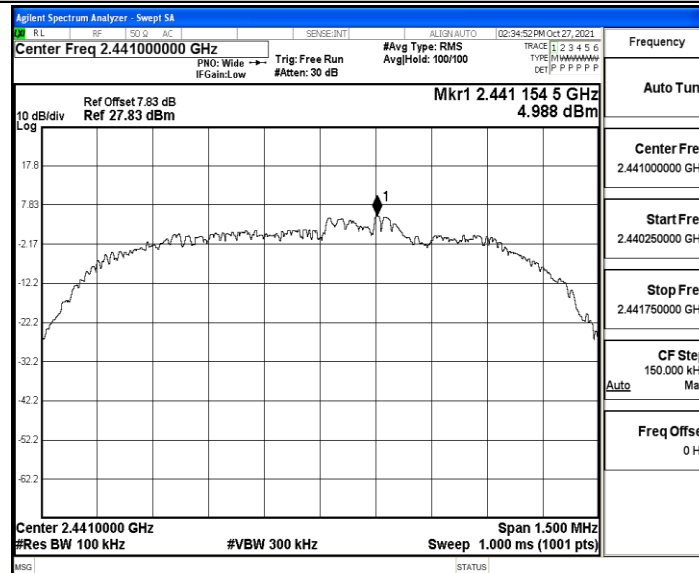




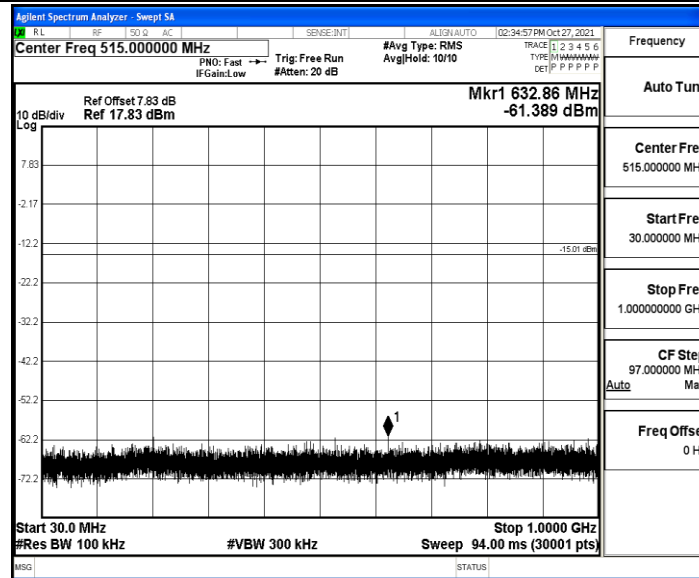
3DH5_Ant1_2402_1000-26500



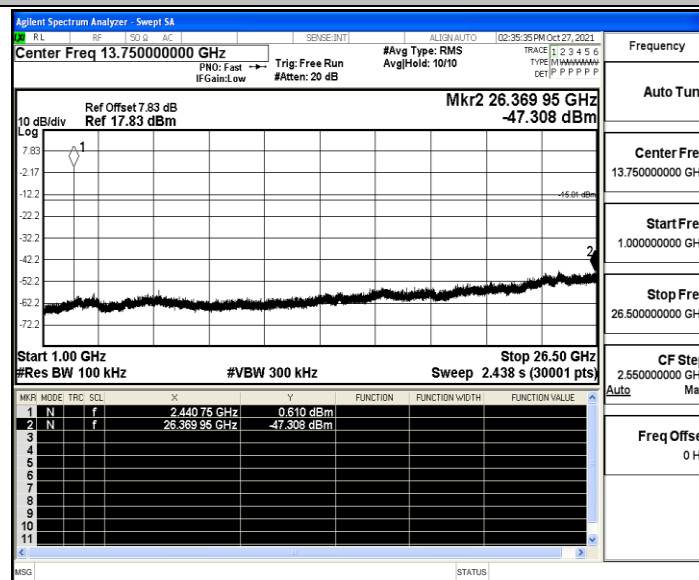
3DH5_Ant1_2441_0-Reference



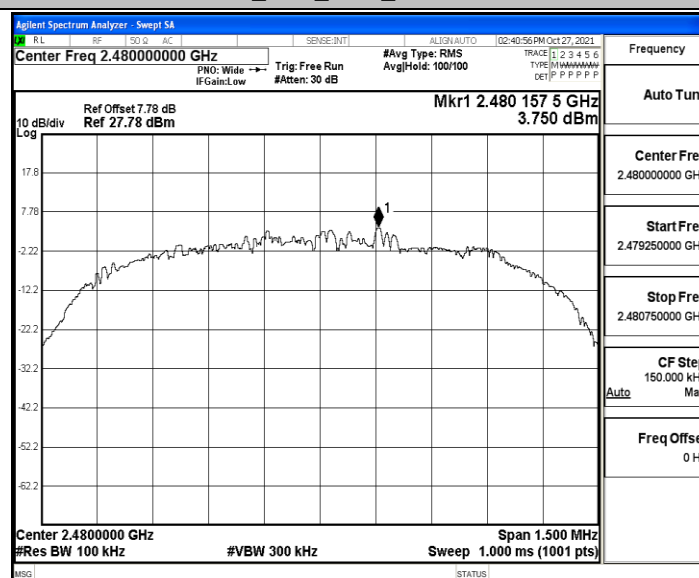
3DH5_Ant1_2441_30-1000



3DH5_Ant1_2441_1000~26500

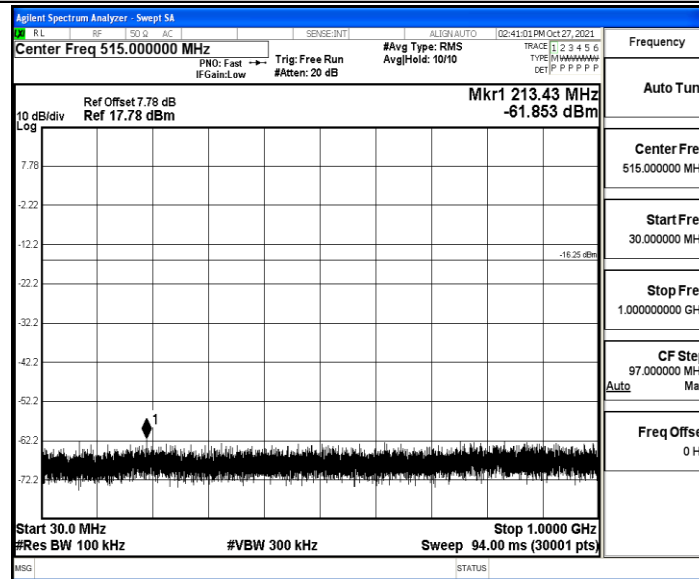


3DH5_Ant1_2480_0~Reference

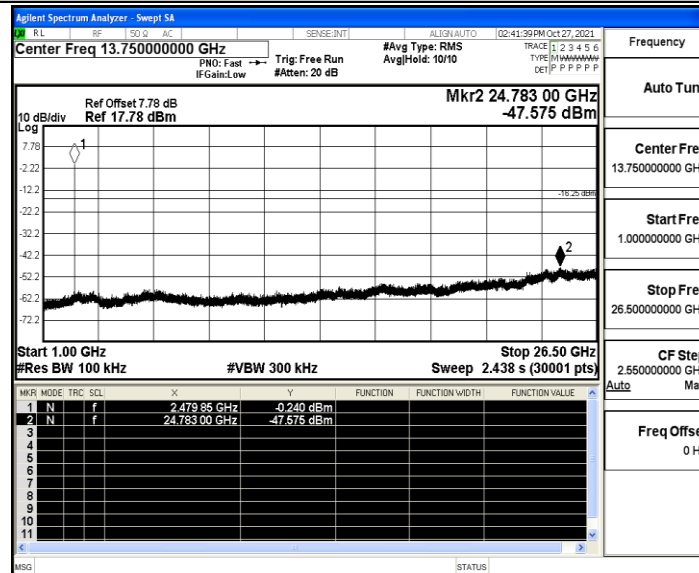




3DH5_Ant1_2480_30~1000



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	-49.05	≤-41.20	46.15	≤54	PASS
				AV	2383.055	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2390.000	-48.62	≤-41.20	46.58	≤54	PASS
				Peak	2310.000	-40.48	≤-21.20	54.72	≤74	PASS
				Peak	2348.300	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2390.000	-40.41	≤-21.20	54.79	≤74	PASS
		High	2480	AV	2483.500	-47.2	≤-41.20	48.00	≤54	PASS
				AV	2483.520	-47.2	≤-41.20	48.00	≤54	PASS
				AV	2500.000	-48	≤-41.20	47.20	≤54	PASS
				Peak	2483.500	-39.99	≤-21.20	55.21	≤74	PASS
				Peak	2499.360	-37.47	≤-21.20	57.73	≤74	PASS
				Peak	2500.000	-39.9	≤-21.20	55.30	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.97	≤-21.20	54.23	≤74	PASS
				Peak	2320.790	-38.38	≤-21.20	56.82	≤74	PASS
				Peak	2390.000	-40.42	≤-21.20	54.78	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2496.400	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	2500.000	-39.86	≤-21.20	55.34	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.02	≤-41.20	46.18	≤54	PASS
				AV	2389.040	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2390.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2310.000	-40.88	≤-21.20	54.32	≤74	PASS
				Peak	2358.275	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2390.000	-38.84	≤-21.20	56.36	≤74	PASS
		High	2480	AV	2483.500	-47.34	≤-41.20	47.86	≤54	PASS
				AV	2483.520	-47.34	≤-41.20	47.86	≤54	PASS
				AV	2500.000	-47.98	≤-41.20	47.22	≤54	PASS
				Peak	2483.500	-40.75	≤-21.20	54.45	≤74	PASS
				Peak	2488.480	-37.57	≤-21.20	57.63	≤74	PASS
				Peak	2500.000	-40.29	≤-21.20	54.91	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.22	≤-21.20	53.98	≤74	PASS
				Peak	2359.115	-38.37	≤-21.20	56.83	≤74	PASS
				Peak	2390.000	-40.41	≤-21.20	54.79	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.38	≤-21.20	54.82	≤74	PASS
				Peak	2492.880	-37.8	≤-21.20	57.40	≤74	PASS
				Peak	2500.000	-39.92	≤-21.20	55.28	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.01	≤-41.20	46.19	≤54	PASS



				AV	2387.360	-48.49	≤ -41.20	46.71	≤ 54	PASS
				AV	2390.000	-48.6	≤ -41.20	46.60	≤ 54	PASS
				Peak	2310.000	-40.22	≤ -21.20	54.98	≤ 74	PASS
				Peak	2382.005	-38.64	≤ -21.20	56.56	≤ 74	PASS
				Peak	2390.000	-39.86	≤ -21.20	55.34	≤ 74	PASS
		High	2480	AV	2483.500	-47.23	≤ -41.20	47.97	≤ 54	PASS
				AV	2483.520	-47.23	≤ -41.20	47.97	≤ 54	PASS
				AV	2500.000	-47.99	≤ -41.20	47.21	≤ 54	PASS
				Peak	2483.500	-38.64	≤ -21.20	56.56	≤ 74	PASS
				Peak	2498.480	-37.38	≤ -21.20	57.82	≤ 74	PASS
				Peak	2500.000	-39.28	≤ -21.20	55.92	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.73	≤ -21.20	54.47	≤ 74	PASS
				Peak	2366.885	-38.06	≤ -21.20	57.14	≤ 74	PASS
				Peak	2390.000	-40.06	≤ -21.20	55.14	≤ 74	PASS

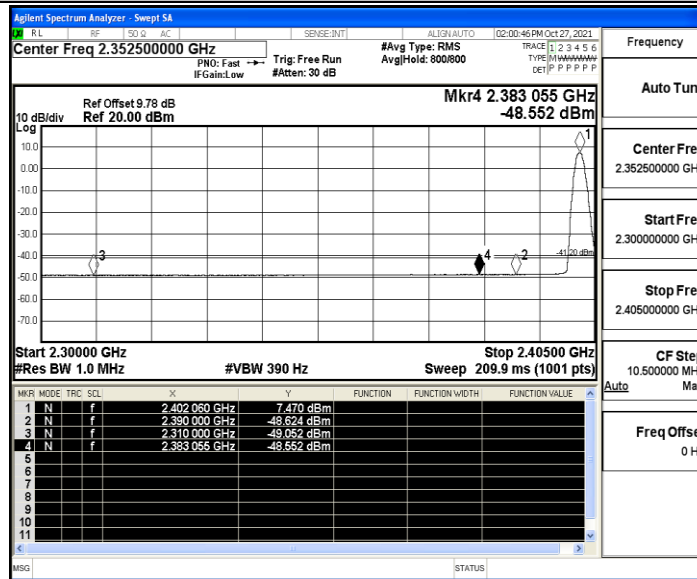
Note:

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.

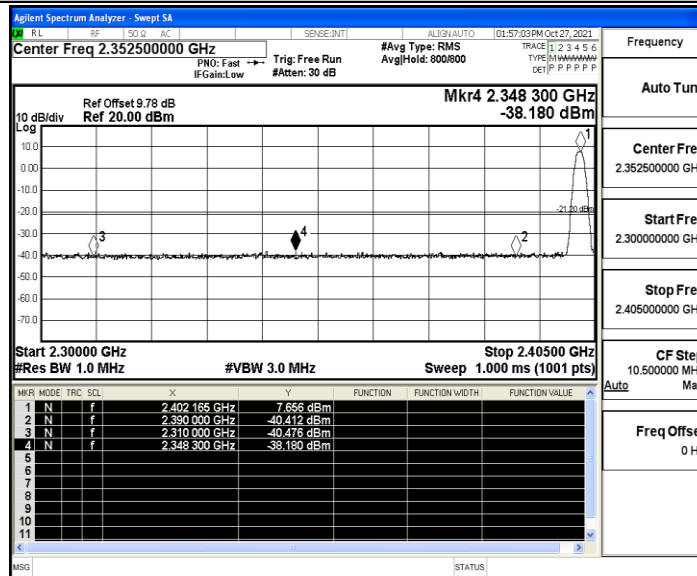


Test Graphs

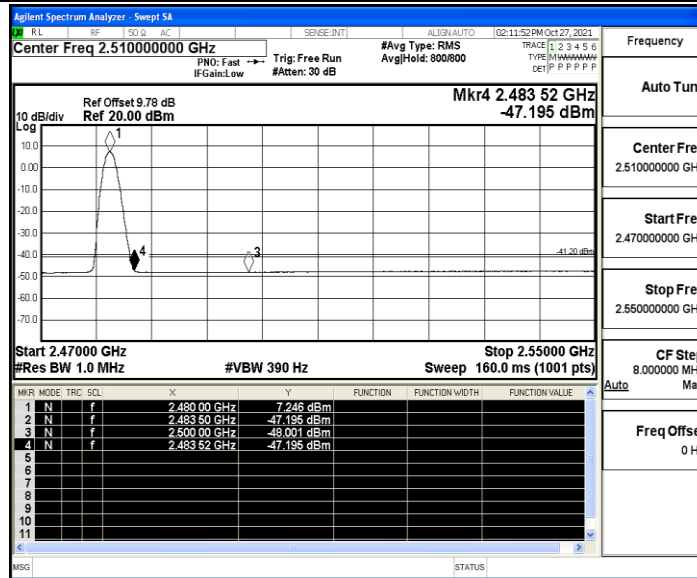
DH5_Ant1_Low_2402_AV



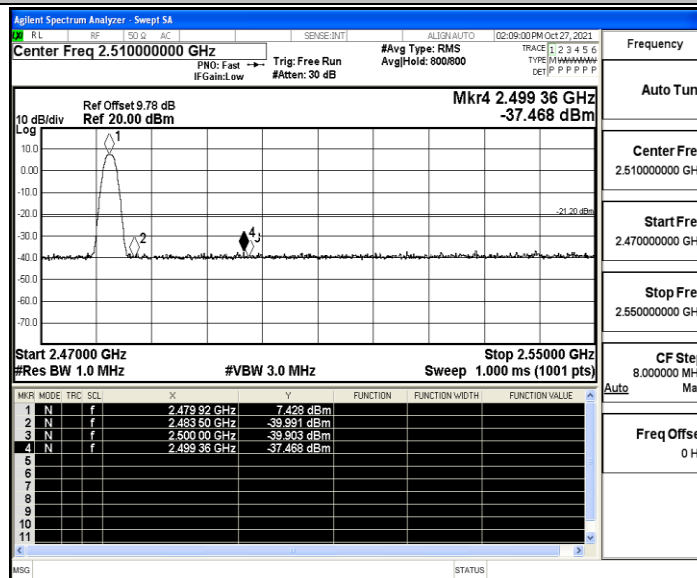
DH5_Ant1_Low_2402_Peak



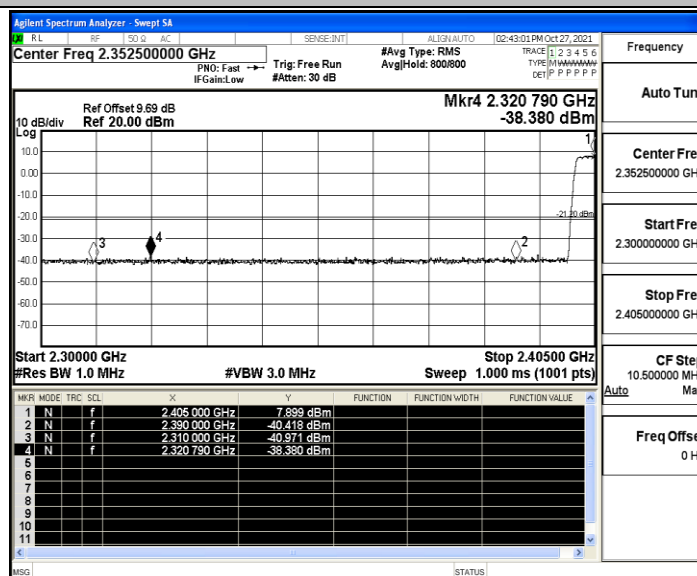
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

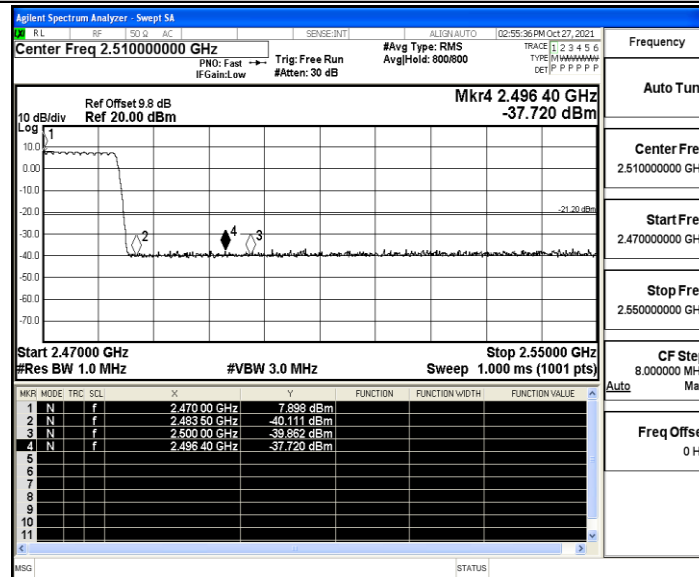


DH5_Ant1_Low_Hop_2402_Peak

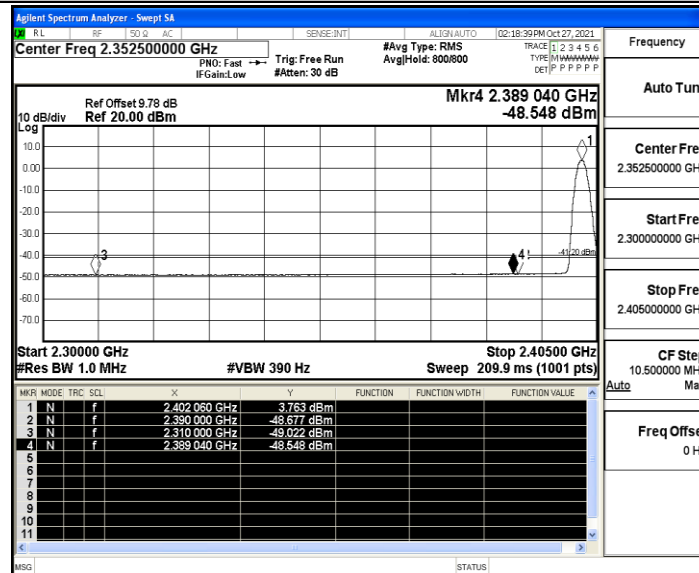




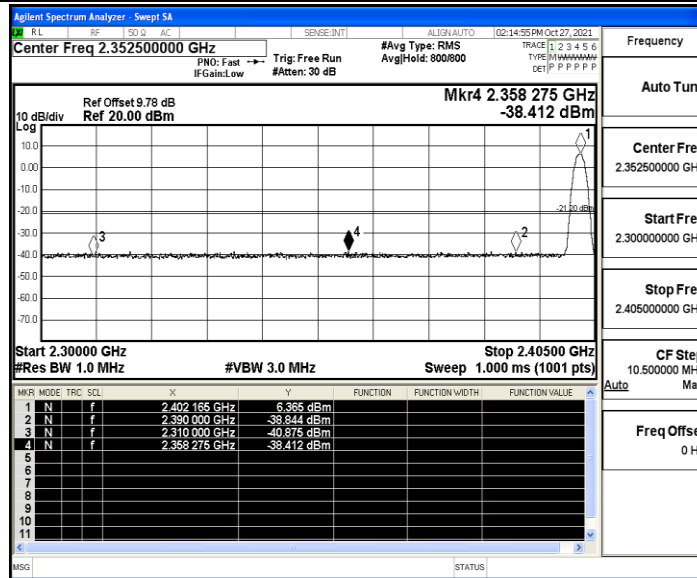
DH5_Ant1_High_Hop_2480_Peak



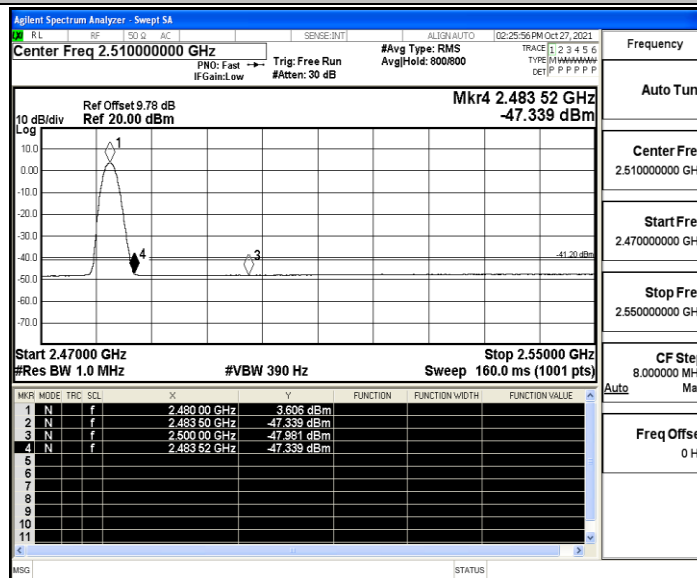
2DH5_Ant1_Low_2402_AV



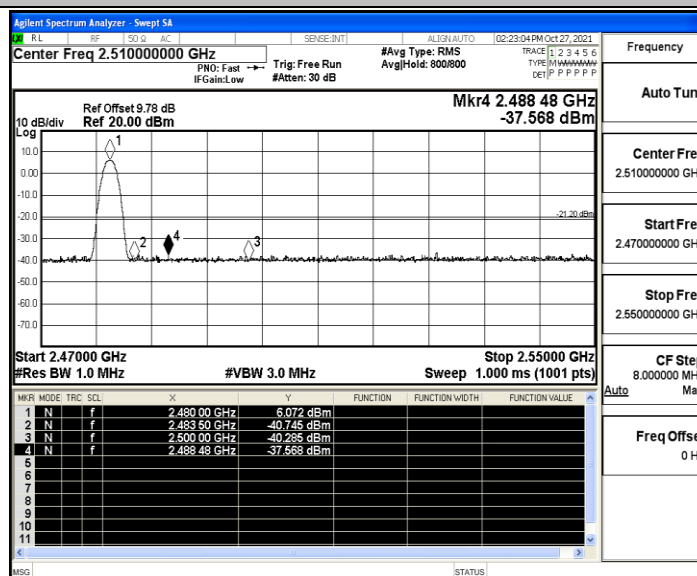
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

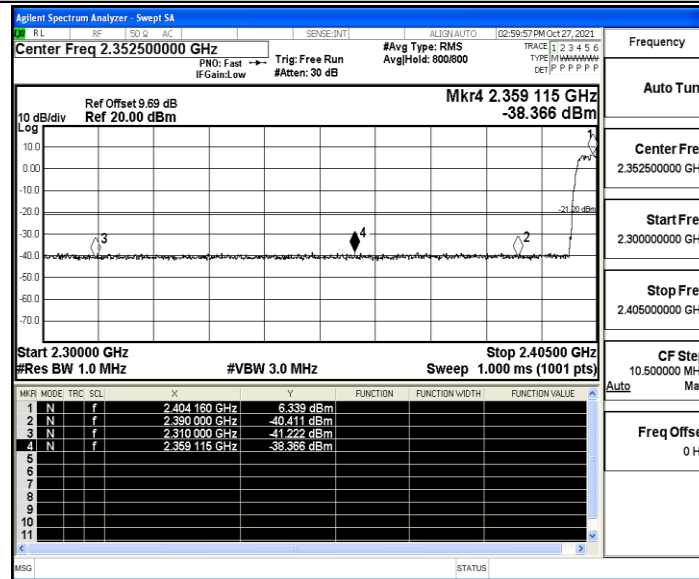


2DH5_Ant1_High_2480_Peak

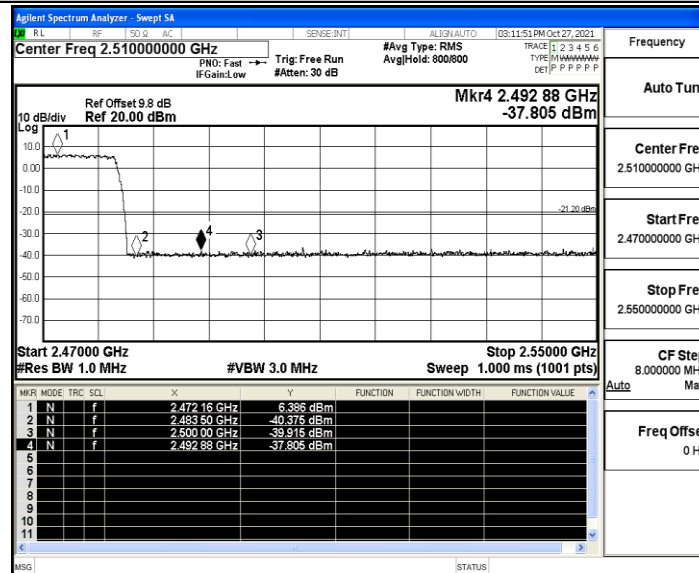




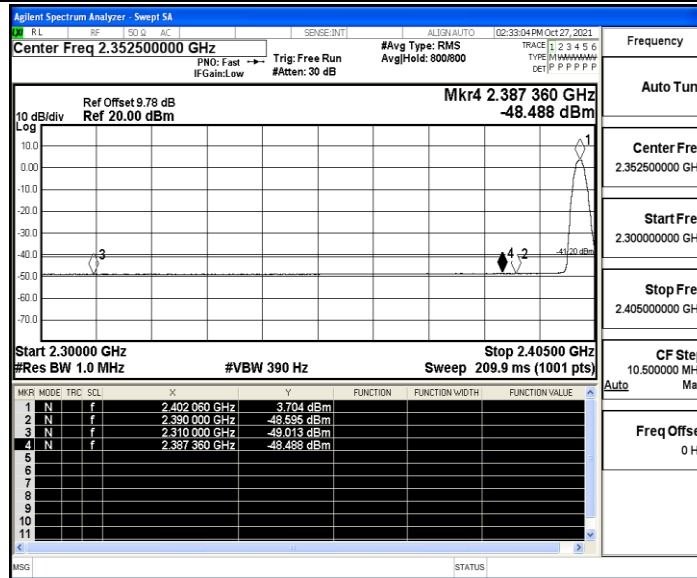
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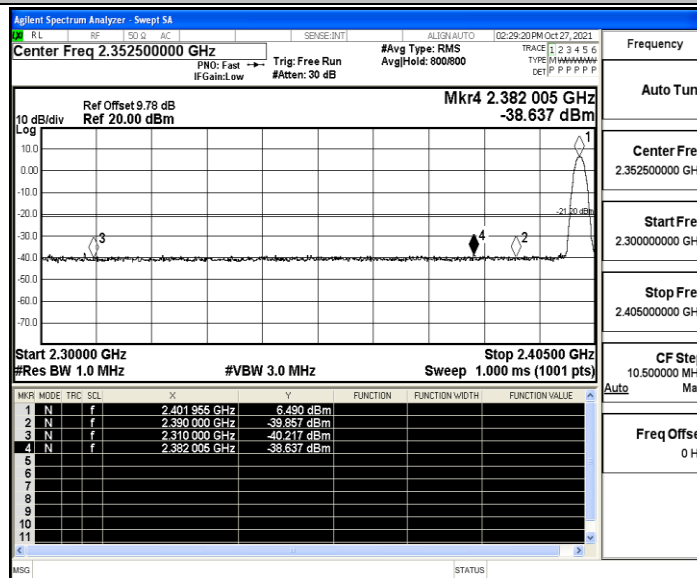
2DH5_Ant1_High_Hop_2480_Peak



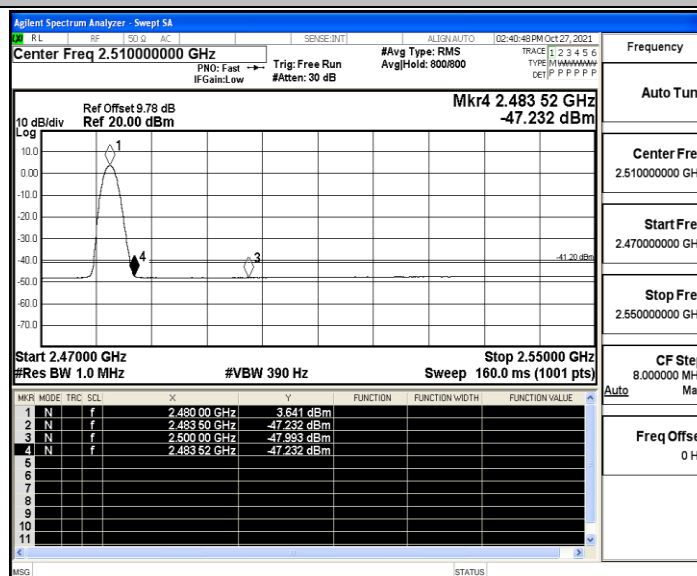
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak

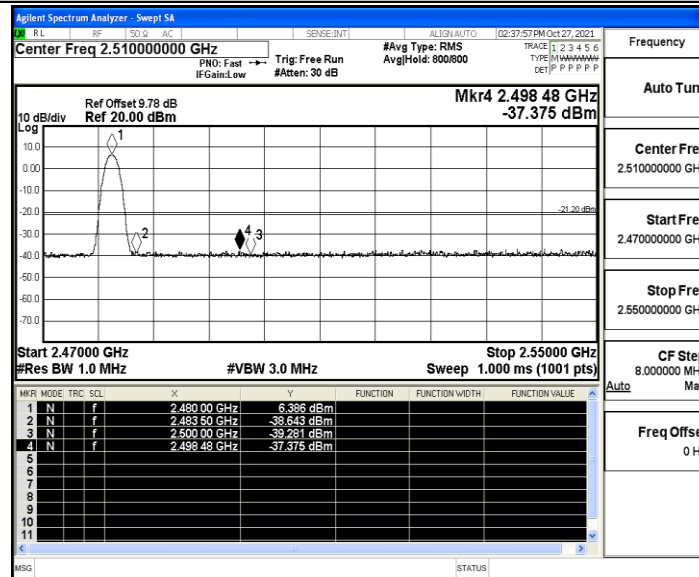


3DH5_Ant1_High_2480_AV





3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

