



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: STAGE STATION SOUND SYSTEM

Test Model: COMPACT-1500

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder. Wu
Supervised by:	Libu



A.1 20dB Emission Bandwidth

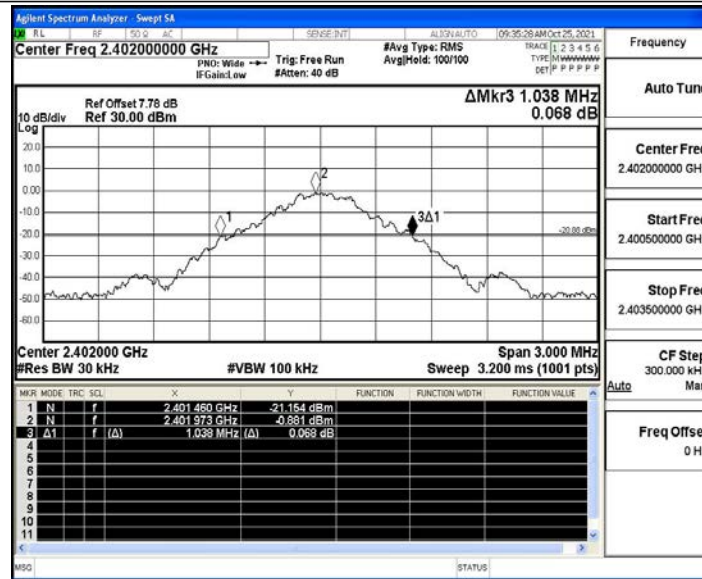
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.038	2401.460	2402.498	---	PASS
		2441	1.041	2440.463	2441.504	---	PASS
		2480	1.029	2479.463	2480.492	---	PASS
2DH5	Ant1	2402	1.317	2401.337	2402.654	---	PASS
		2441	1.290	2440.361	2441.651	---	PASS
		2480	1.317	2479.334	2480.651	---	PASS
3DH5	Ant1	2402	1.317	2401.340	2402.657	---	PASS
		2441	1.317	2440.340	2441.657	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS

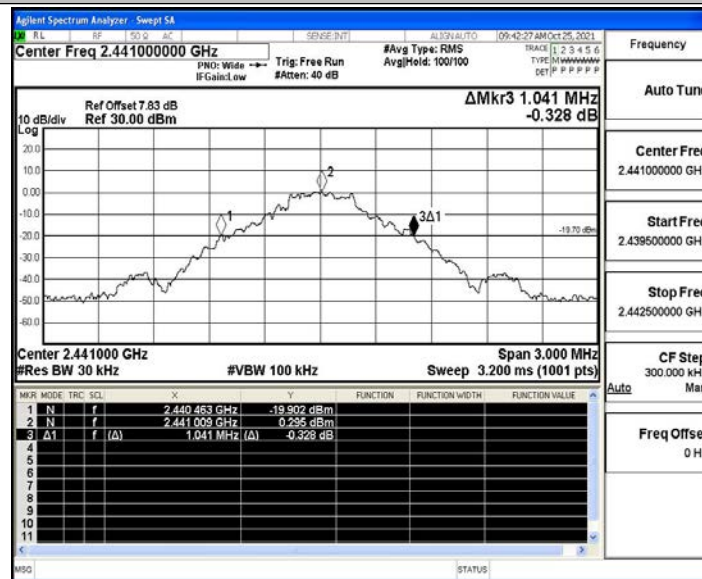


Test Graphs

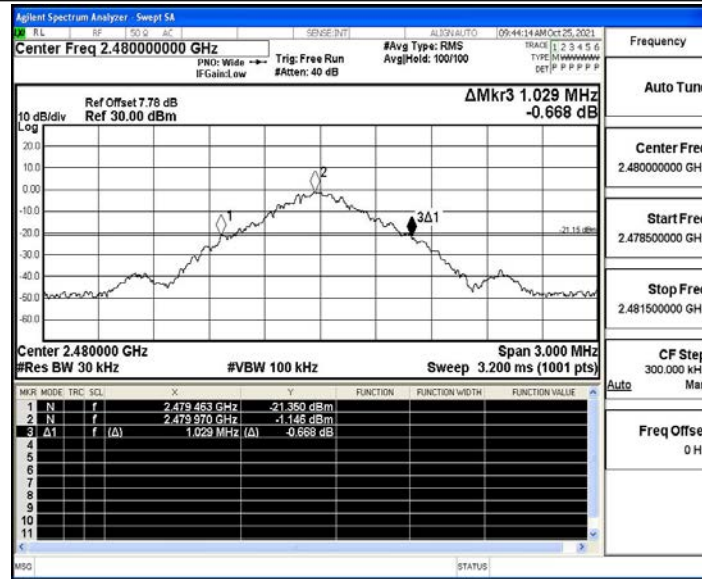
DH5_Ant1_2402



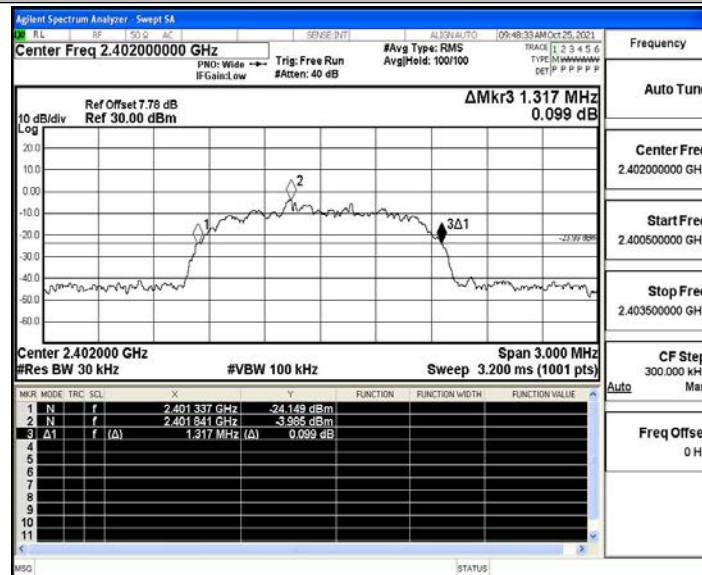
DH5_Ant1_2441



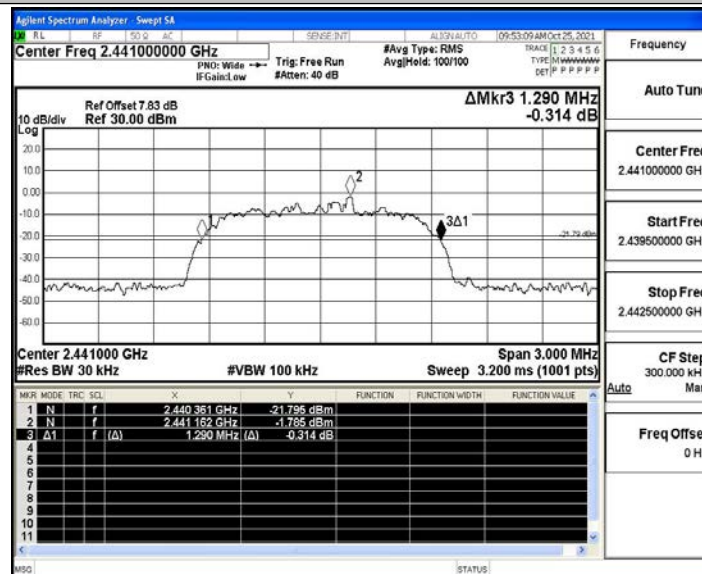
DH5_Ant1_2480



2DH5_Ant1_2402

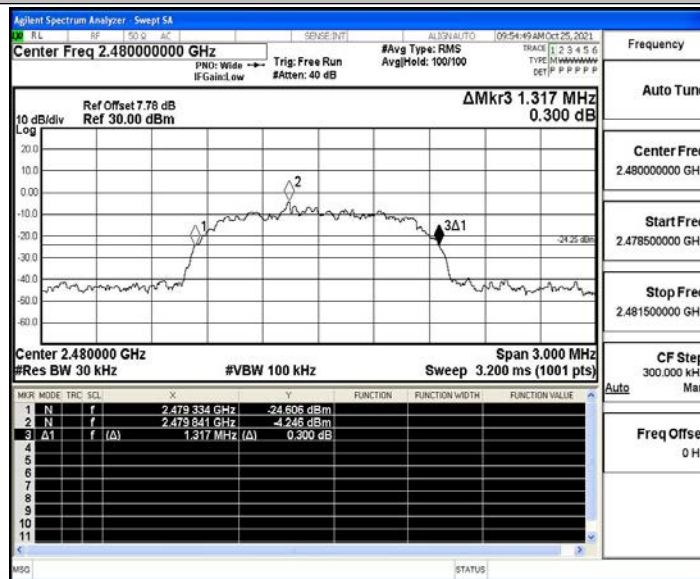


2DH5_Ant1_2441

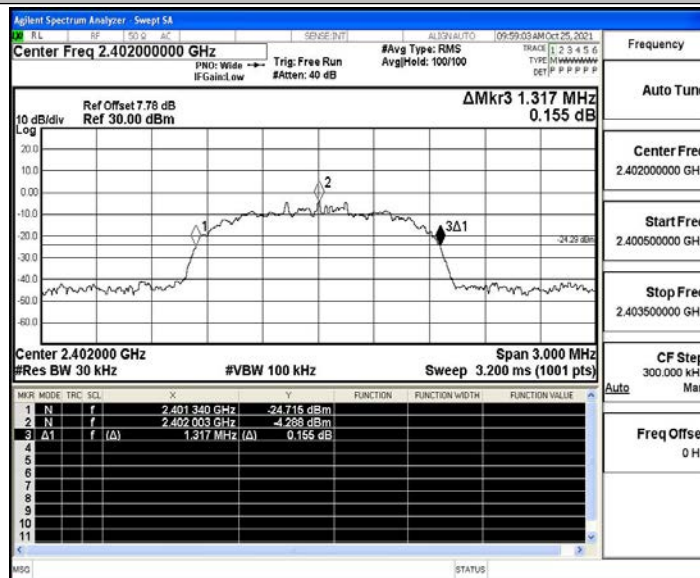




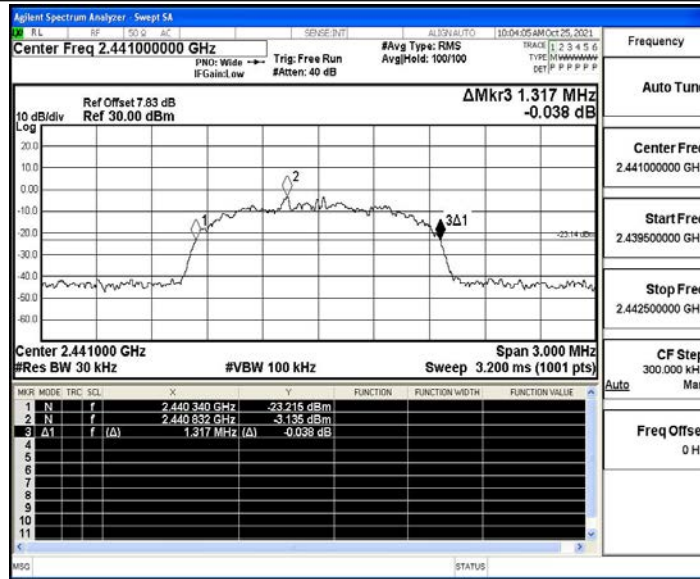
2DH5_Ant1_2480



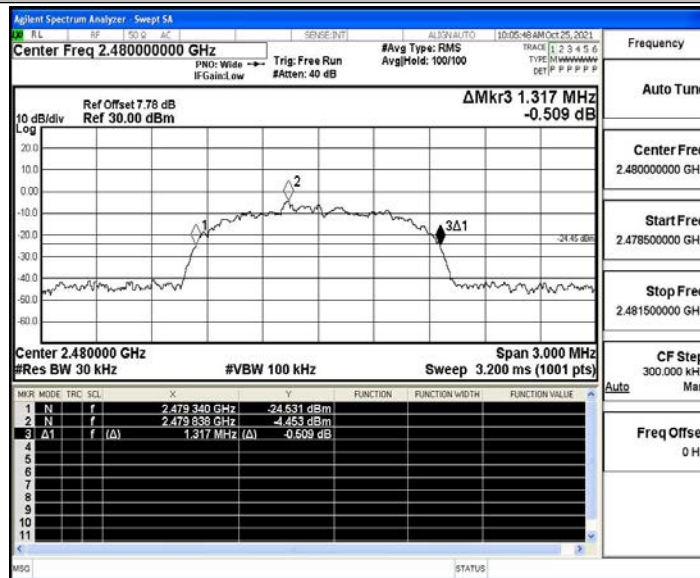
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum conducted output power

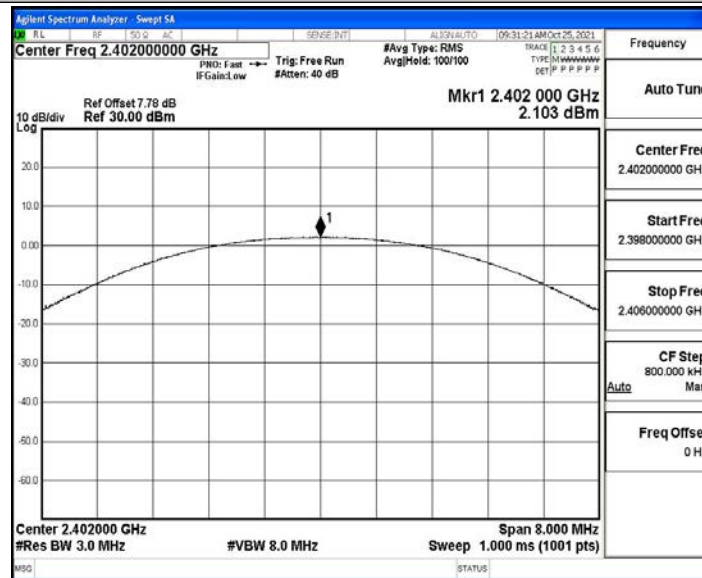
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.1	≤30	PASS
		2441	3.33	≤30	PASS
		2480	1.88	≤30	PASS
2DH5	Ant1	2402	1.22	≤30	PASS
		2441	2.45	≤30	PASS
		2480	1.03	≤30	PASS
3DH5	Ant1	2402	1.4	≤30	PASS
		2441	2.62	≤30	PASS
		2480	1.22	≤30	PASS

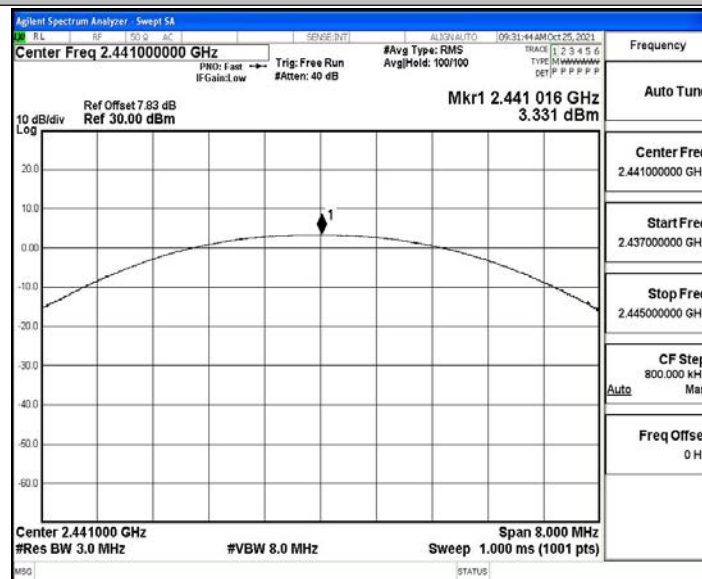


Test Graphs

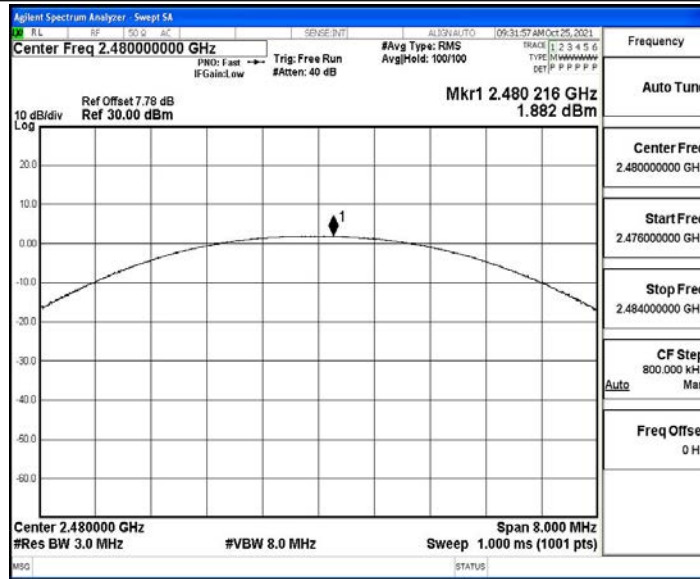
DH5_Ant1_2402



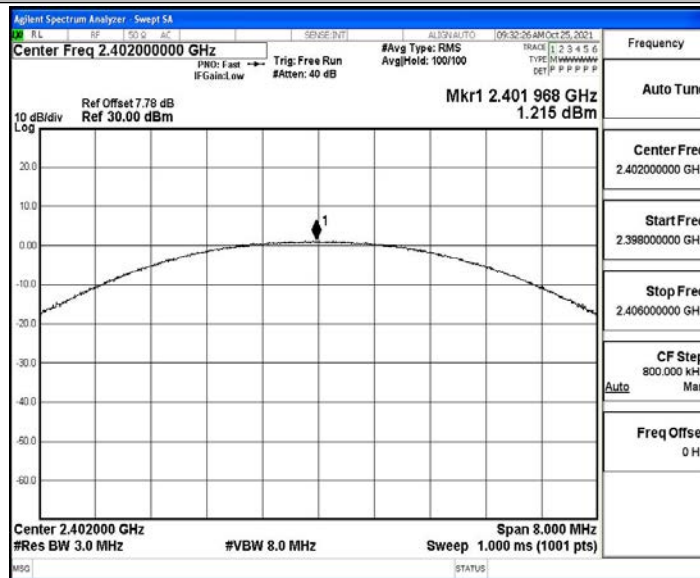
DH5_Ant1_2441



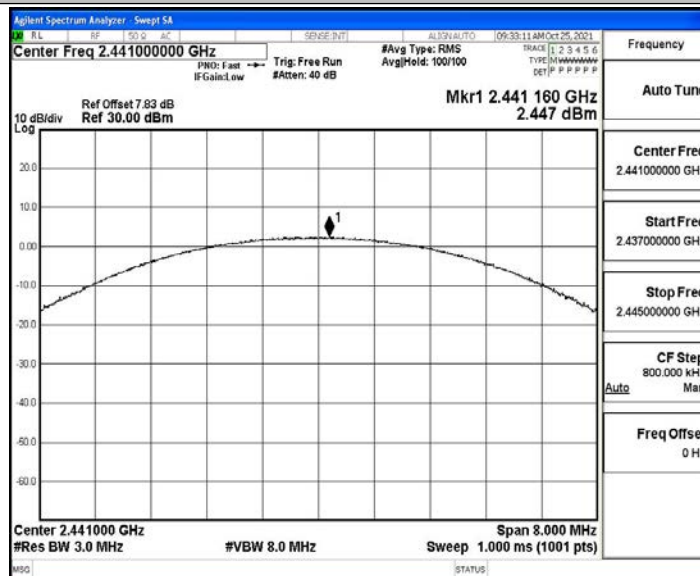
DH5_Ant1_2480



2DH5_Ant1_2402

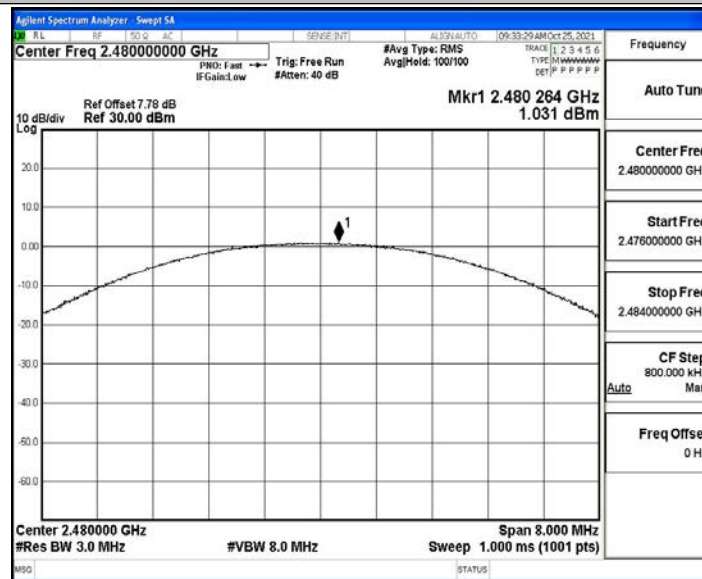


2DH5_Ant1_2441

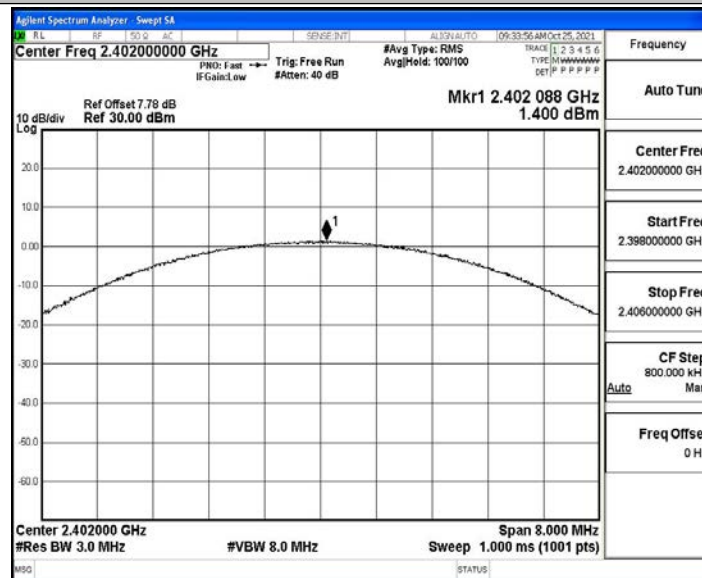




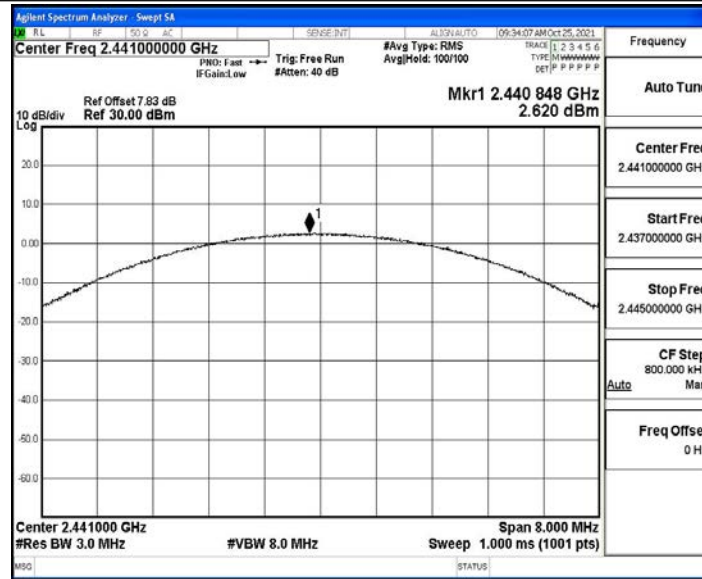
2DH5_Ant1_2480



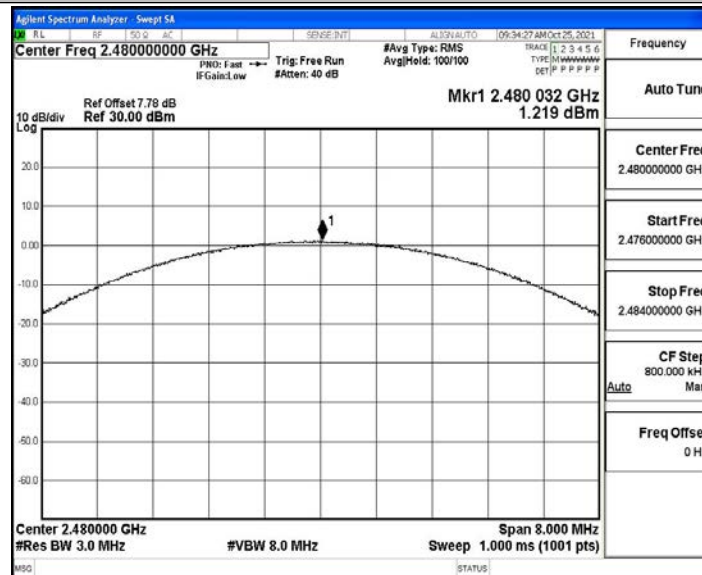
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



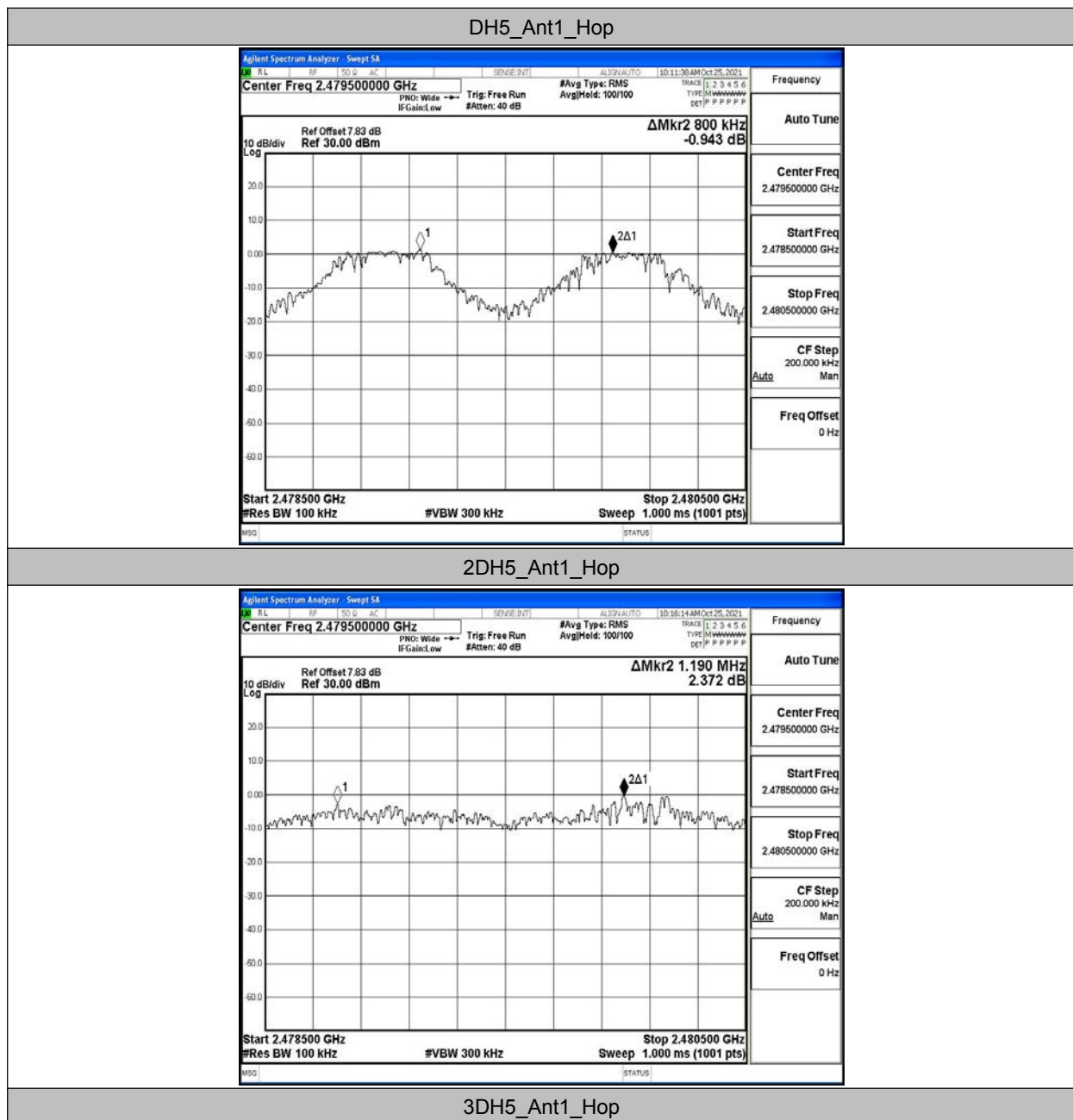


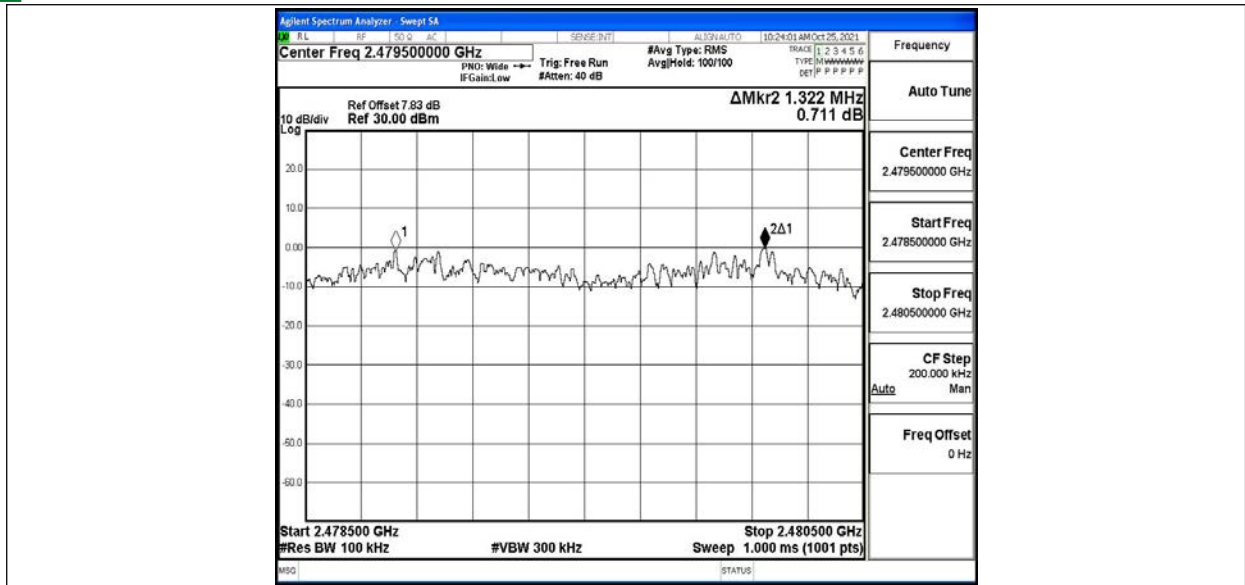
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.8	≥ 0.694	PASS
2DH5	Ant1	Hop	1.19	≥ 0.878	PASS
3DH5	Ant1	Hop	1.322	≥ 1.317	PASS

Test Graphs





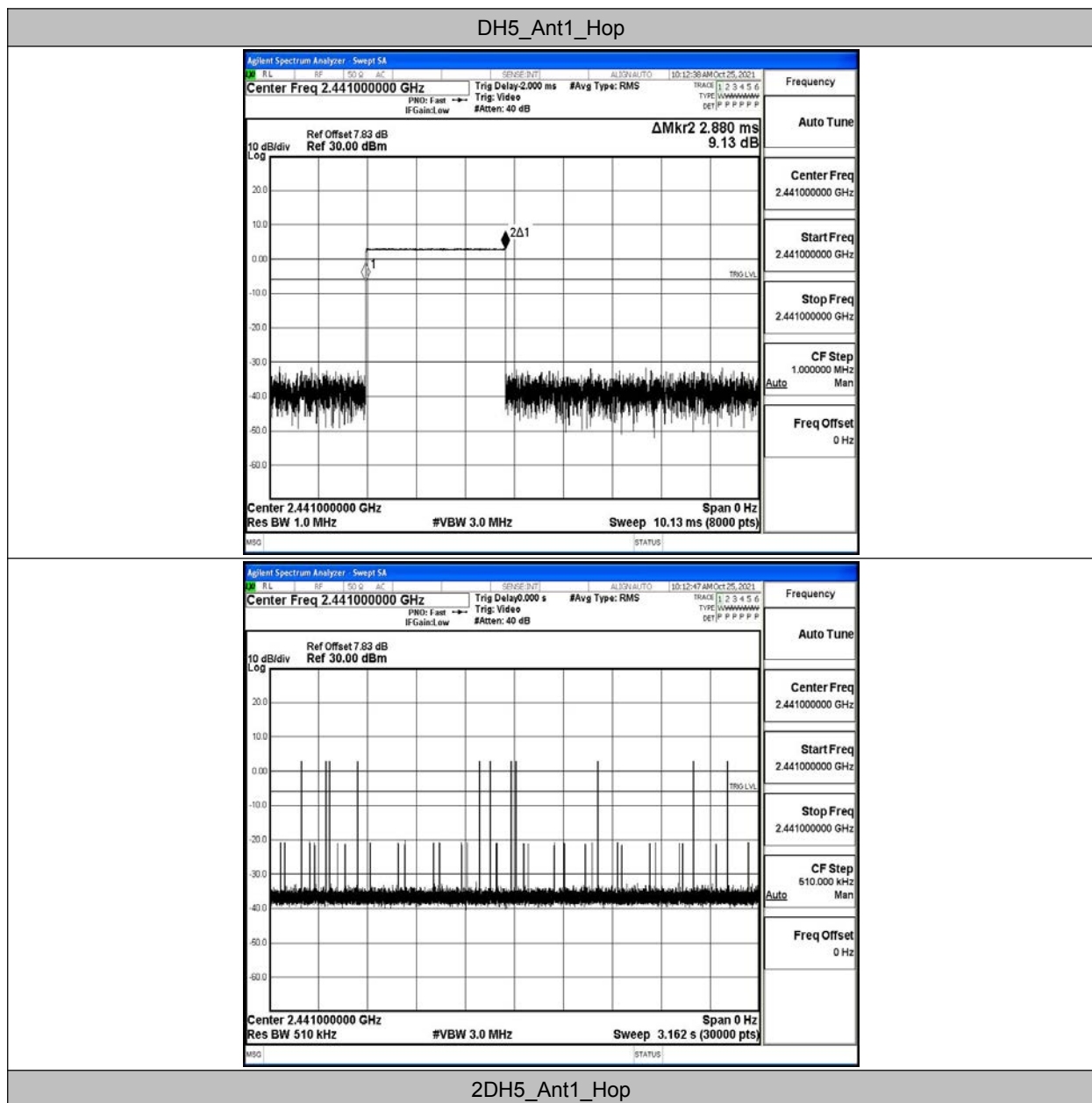


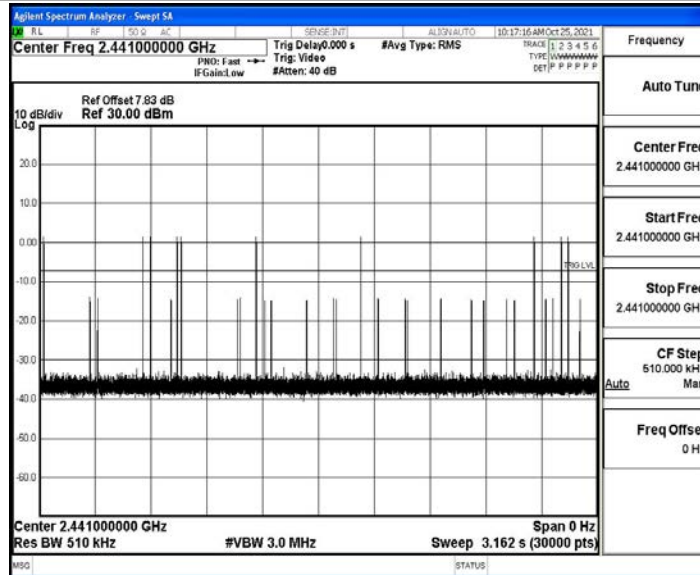
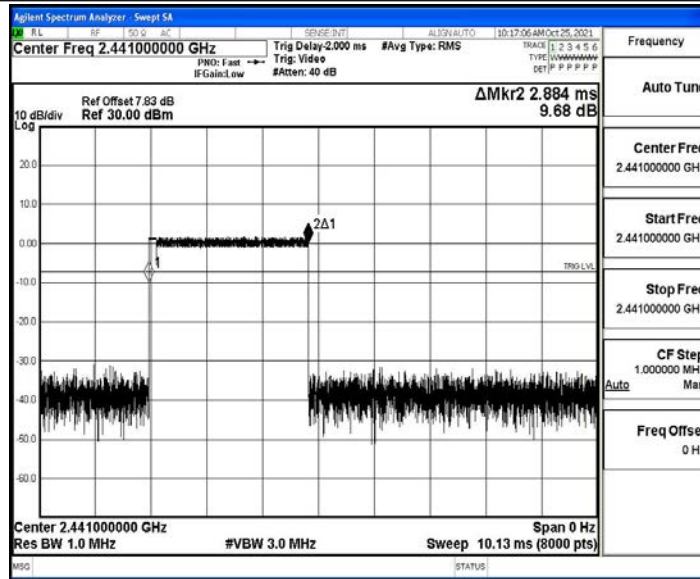
A.4 Time of occupancy

Test Result

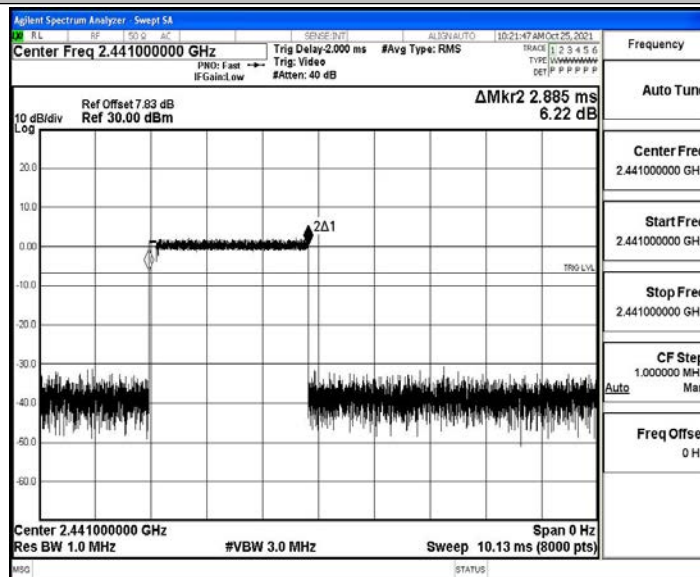
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	≤0.4	PASS

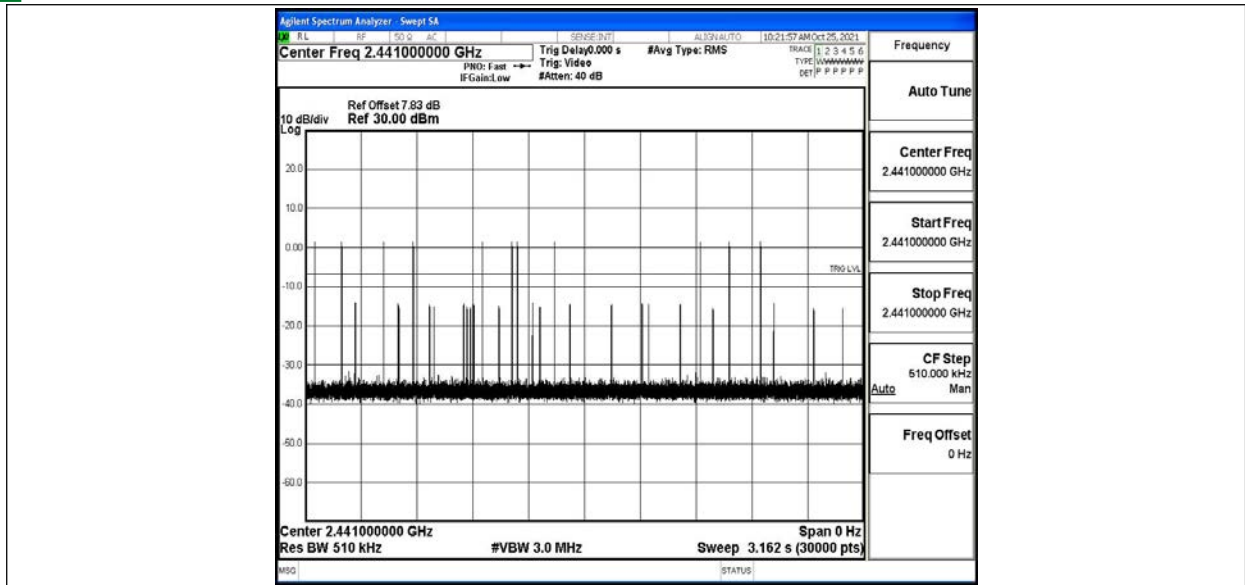
Test Graphs





3DH5_Ant1_Hop





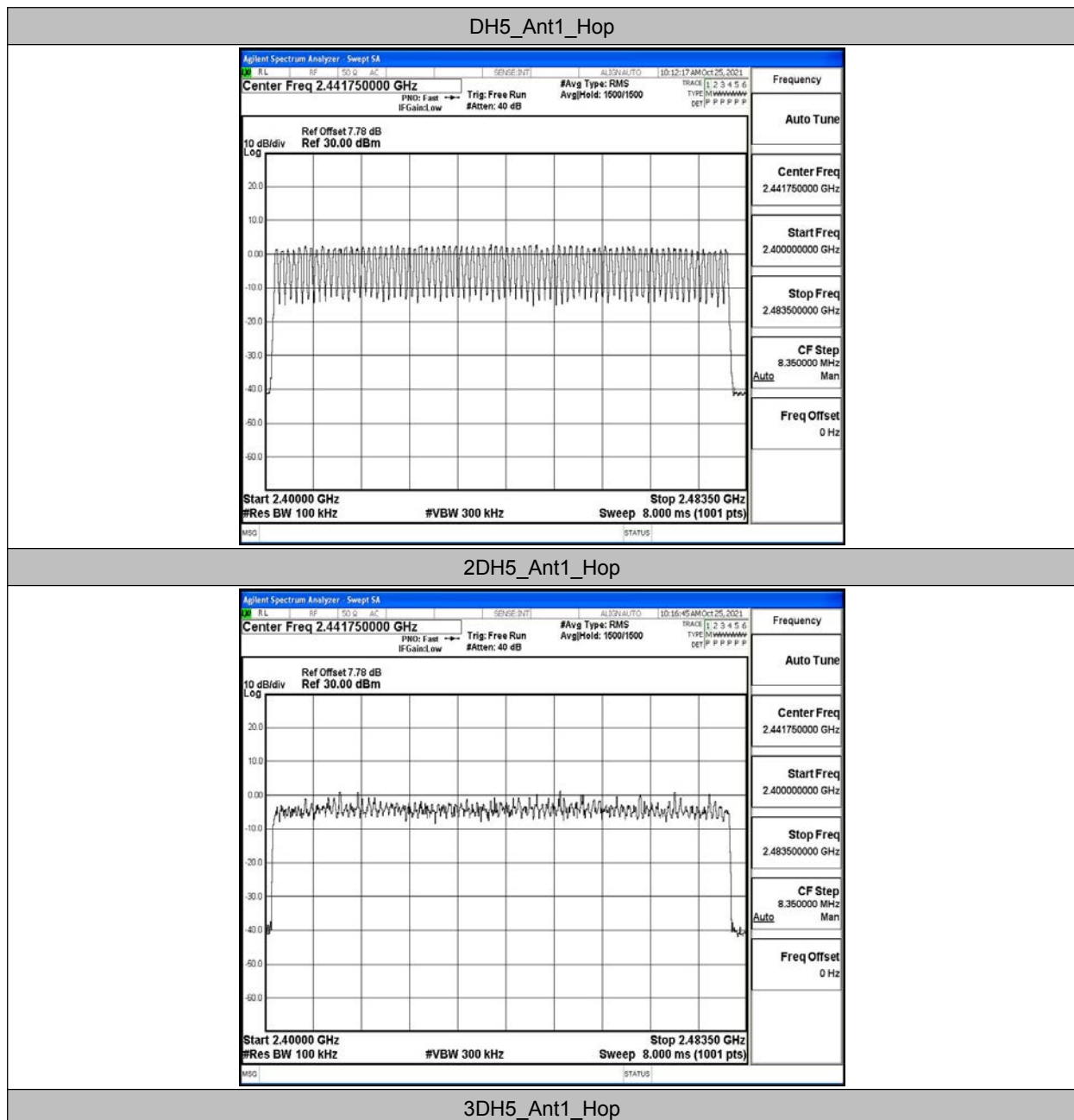


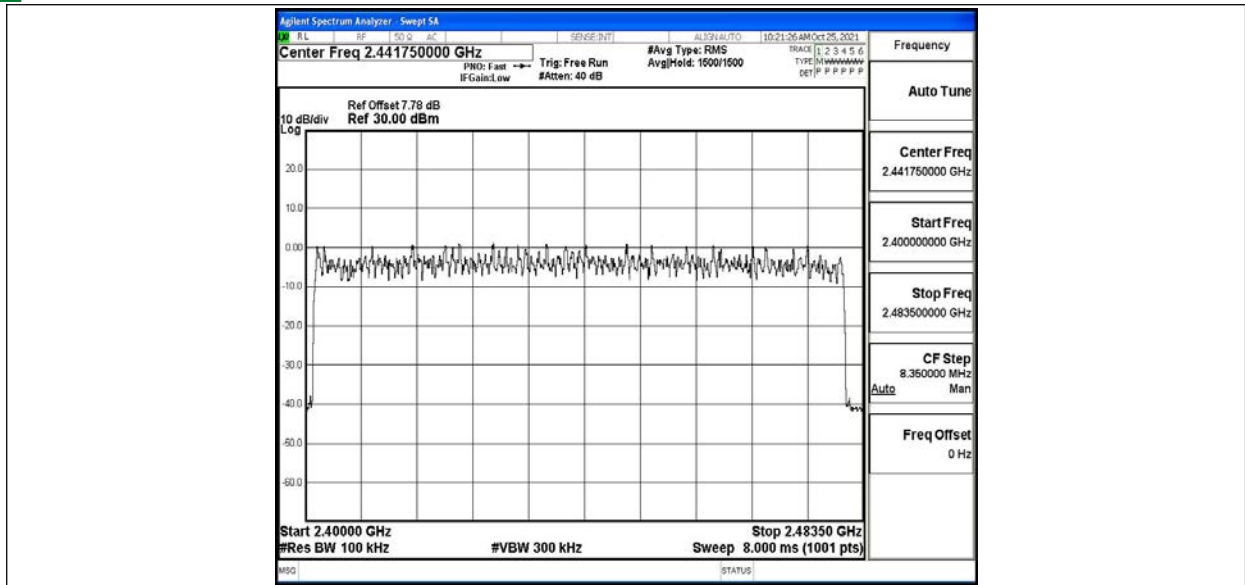
A.5 Number of hopping channels

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

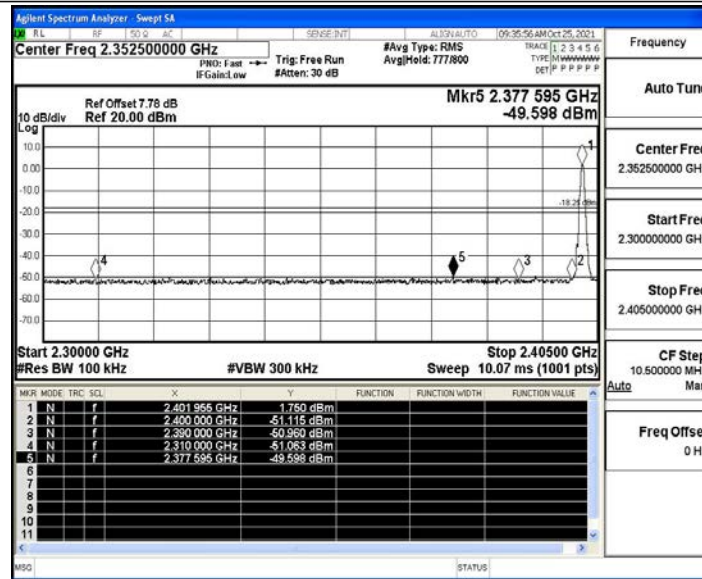
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.75	-49.6	≤ -18.25	PASS
		High	2480	1.31	-48.77	≤ -18.69	PASS
		Low	Hop_2402	1.40	-49.59	≤ -18.6	PASS
		High	Hop_2480	1.75	-47.87	≤ -18.25	PASS
2DH5	Ant1	Low	2402	-0.07	-49.01	≤ -20.07	PASS
		High	2480	-0.11	-48.31	≤ -20.11	PASS
		Low	Hop_2402	-2.66	-49.57	≤ -22.66	PASS
		High	Hop_2480	0.10	-48.58	≤ -19.9	PASS
3DH5	Ant1	Low	2402	0.24	-49.01	≤ -19.76	PASS
		High	2480	0.01	-48.84	≤ -20	PASS
		Low	Hop_2402	-3.02	-49.82	≤ -23.02	PASS
		High	Hop_2480	-1.39	-48.12	≤ -21.39	PASS

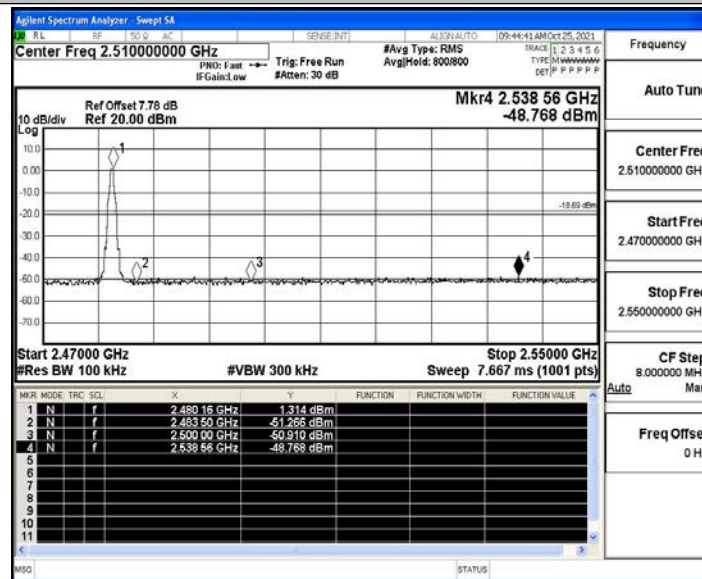


Test Graphs

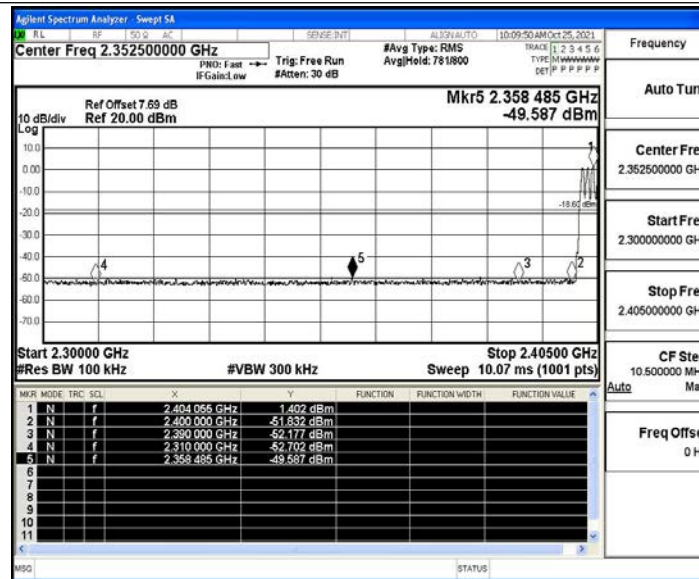
DH5_Ant1_Low_2402



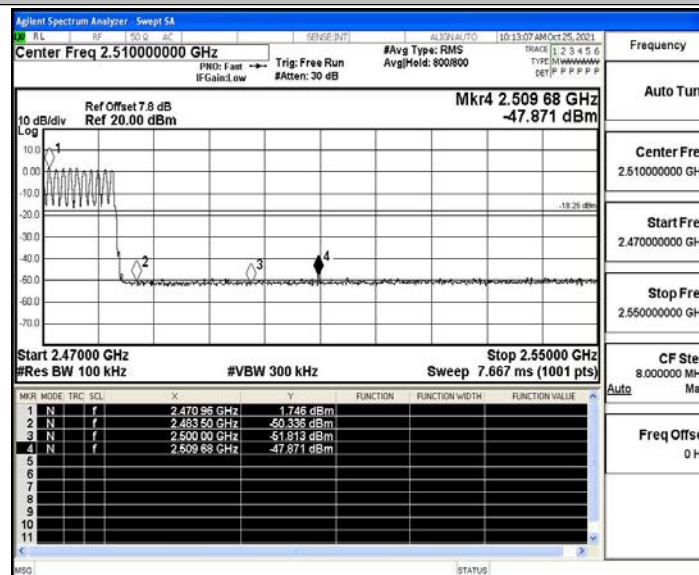
DH5_Ant1_High_2480



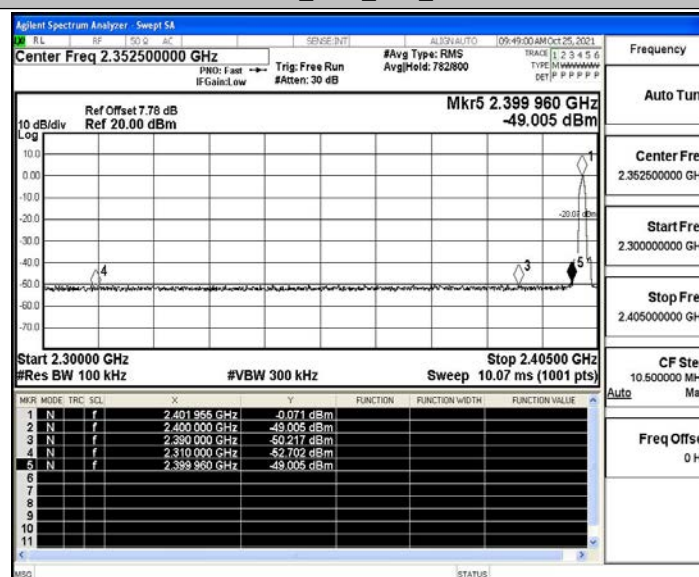
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

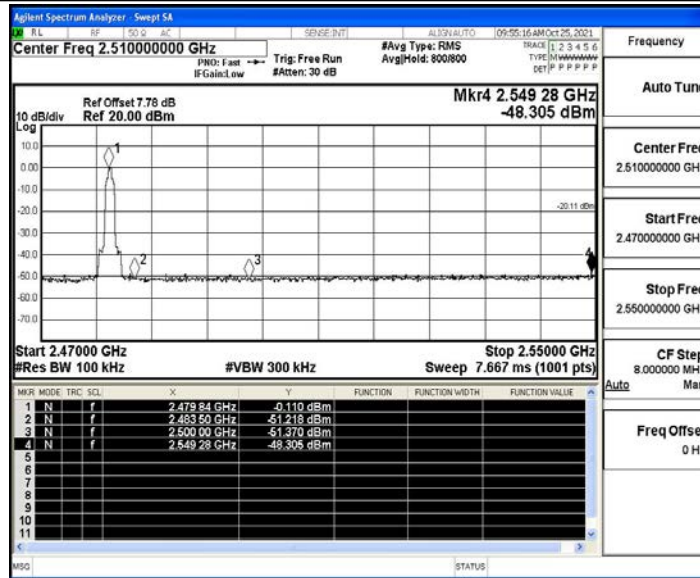


2DH5_Ant1_Low_2402

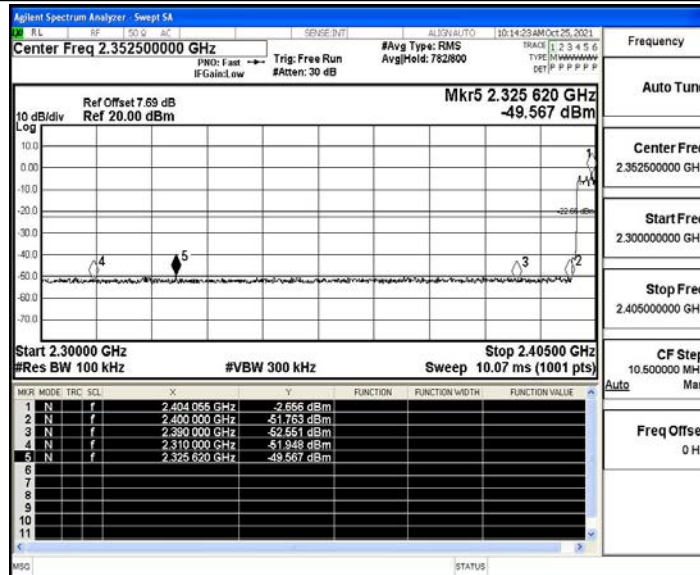




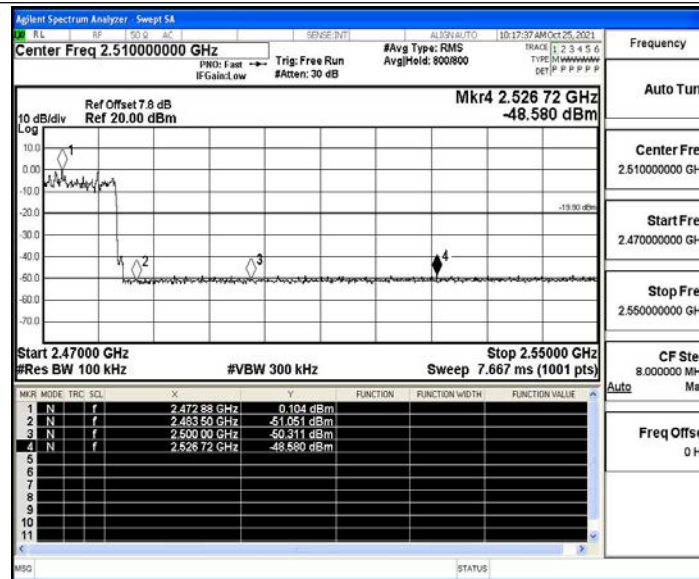
2DH5_Ant1_High_2480



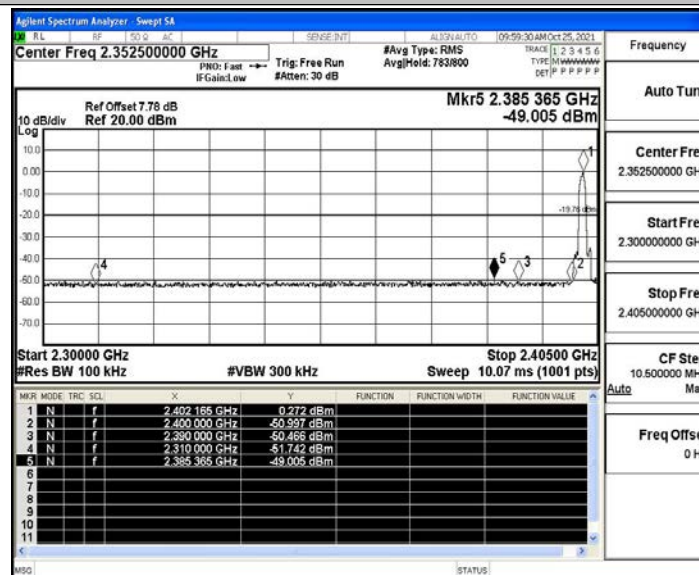
2DH5_Ant1_Low_Hop_2402



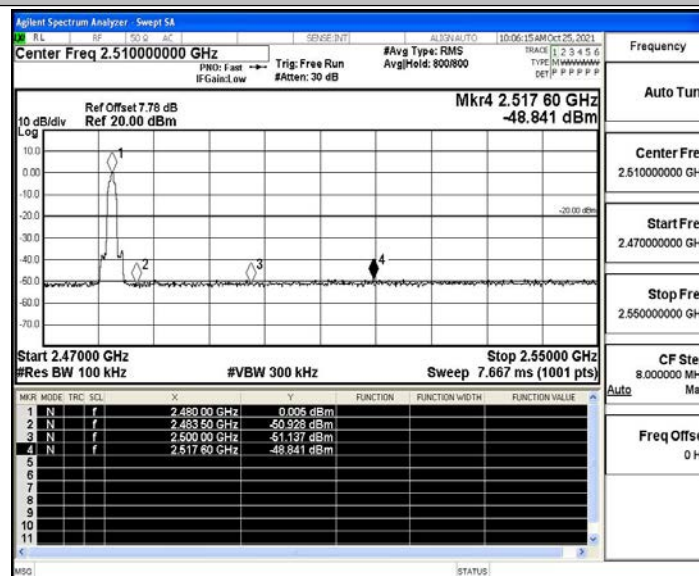
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

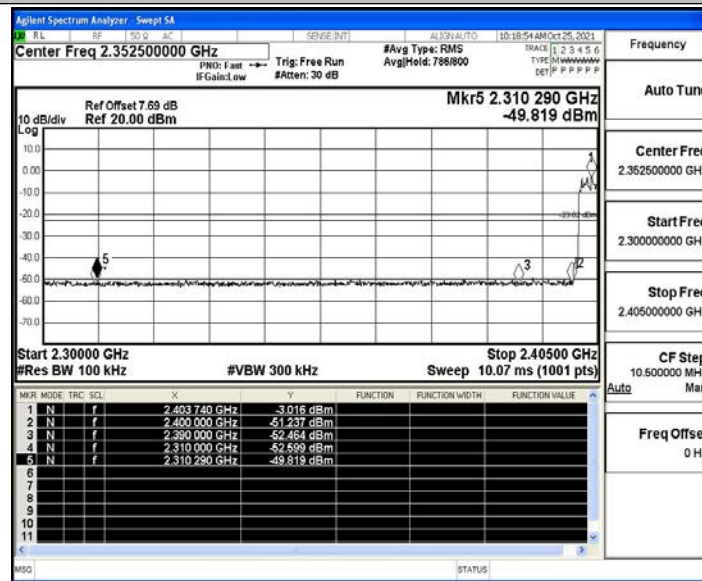


3DH5_Ant1_High_2480

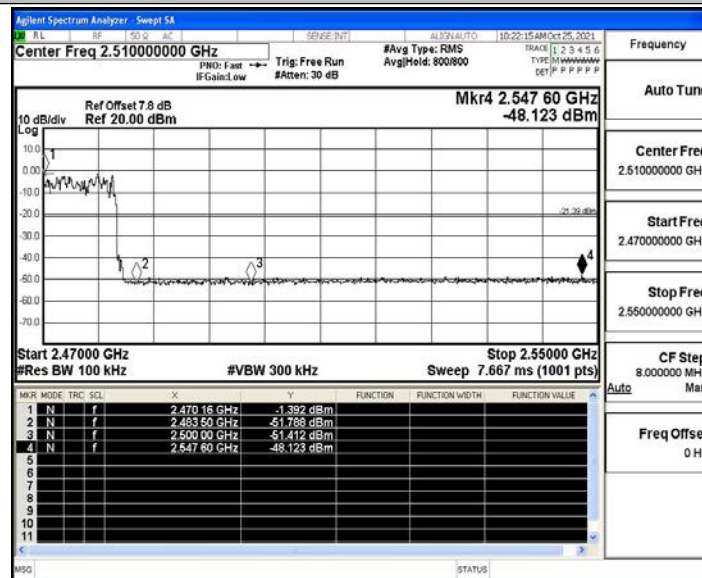




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

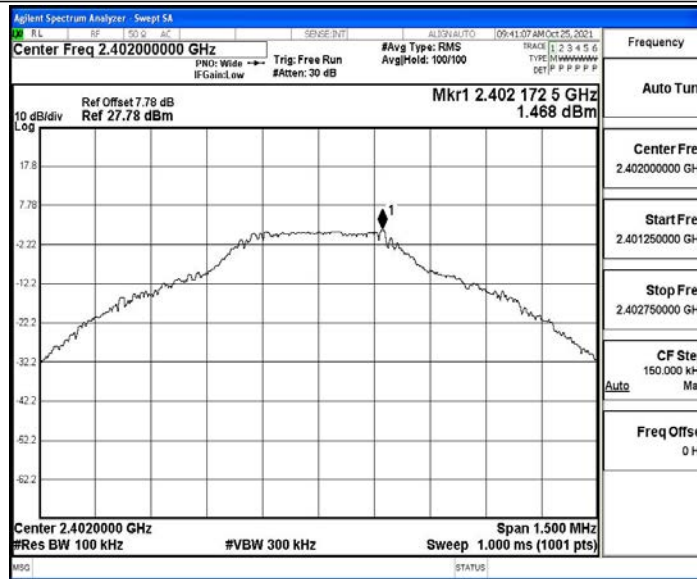
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-61.67	≤-18.53	PASS
			1000~26500	1.47	-46.9	≤-18.53	PASS
		2441	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-61.45	≤-17.8	PASS
			1000~26500	2.20	-47.65	≤-17.8	PASS
		2480	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-61.24	≤-18.77	PASS
			1000~26500	1.24	-47.33	≤-18.77	PASS
2DH5	Ant1	2402	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-61.5	≤-19.94	PASS
			1000~26500	0.06	-46.77	≤-19.94	PASS
		2441	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-60.76	≤-19.24	PASS
			1000~26500	0.76	-46.83	≤-19.24	PASS
		2480	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-61.54	≤-21.09	PASS
			1000~26500	-1.09	-46.95	≤-21.09	PASS
3DH5	Ant1	2402	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-61.3	≤-20.34	PASS
			1000~26500	-0.34	-47.23	≤-20.34	PASS
		2441	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-62.1	≤-18.72	PASS
			1000~26500	1.28	-47.32	≤-18.72	PASS
		2480	Reference	-0.10	-0.10	---	PASS
			30~1000	-0.10	-61.32	≤-20.1	PASS
			1000~26500	-0.10	-47.31	≤-20.1	PASS

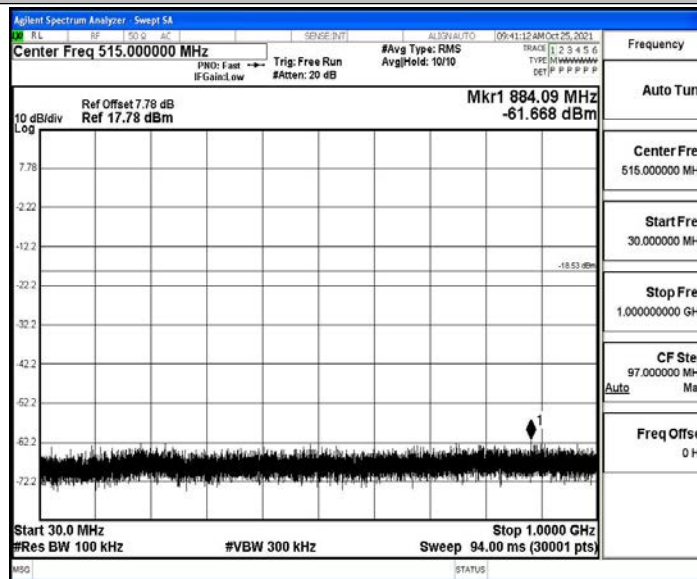


Test Graphs

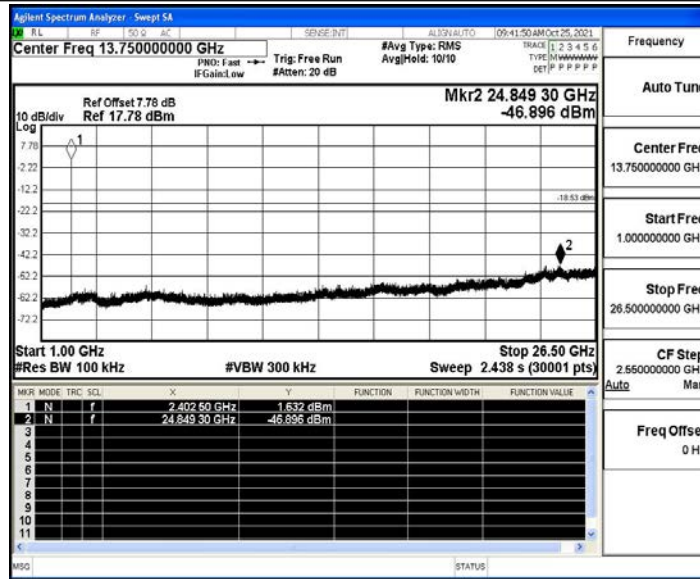
DH5_Ant1_2402_0~Reference



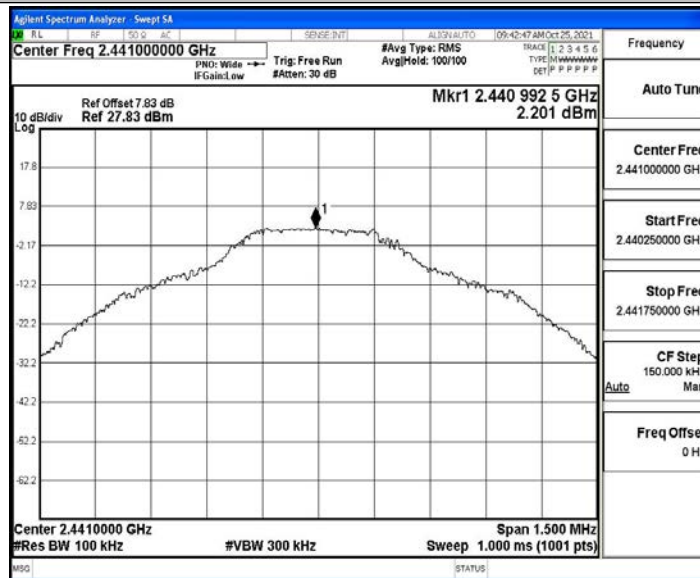
DH5_Ant1_2402_30~1000



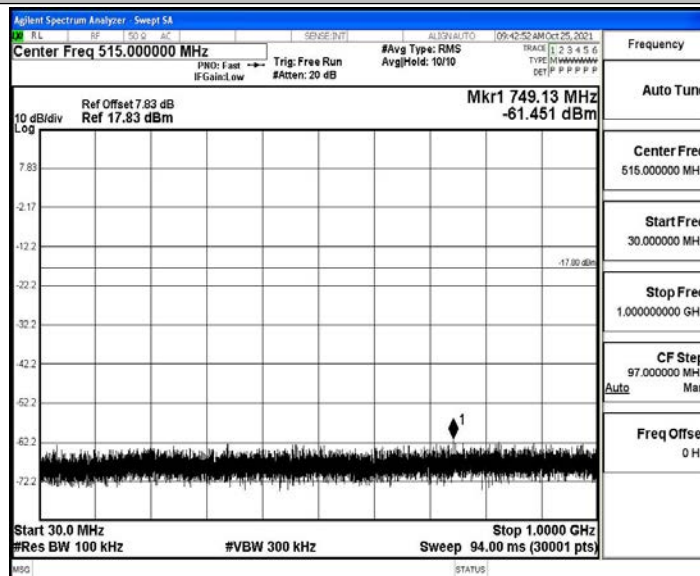
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

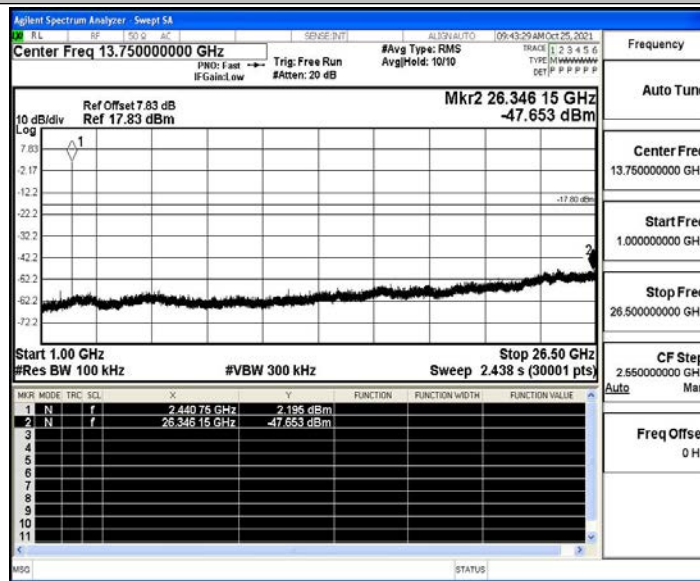


DH5_Ant1_2441_30~1000

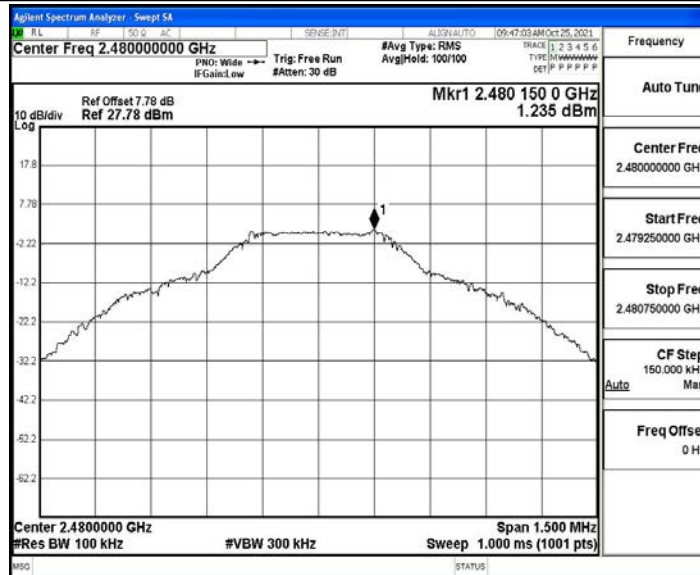




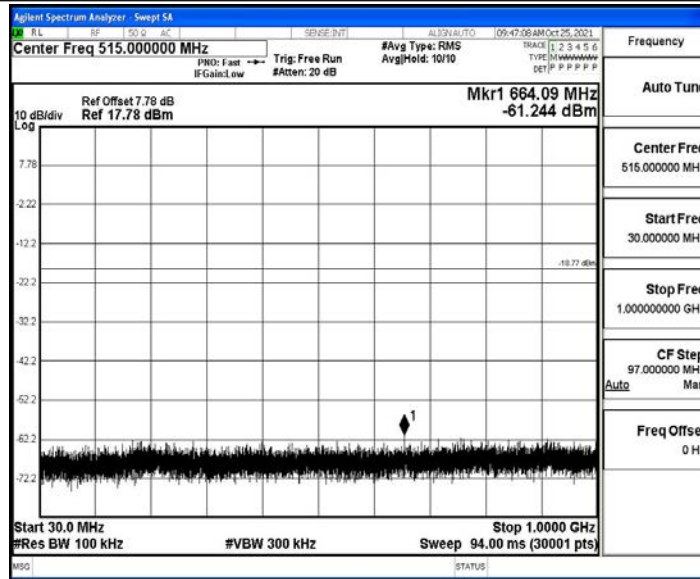
DH5_Ant1_2441_1000~26500



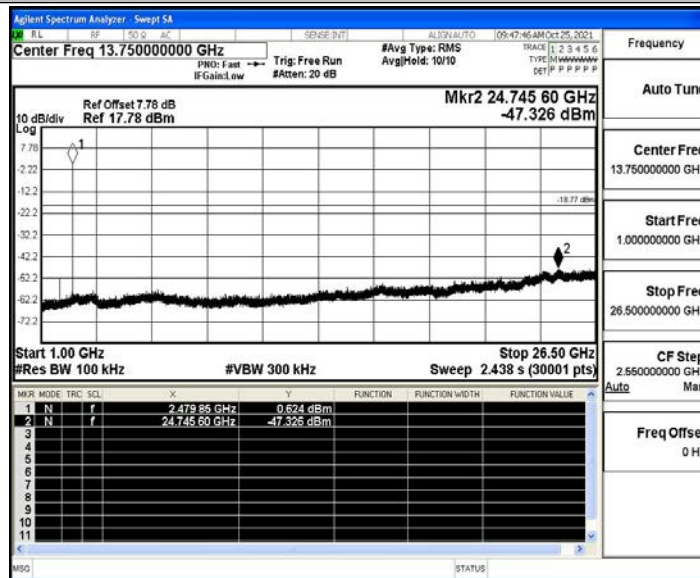
DH5_Ant1_2480_0~Reference



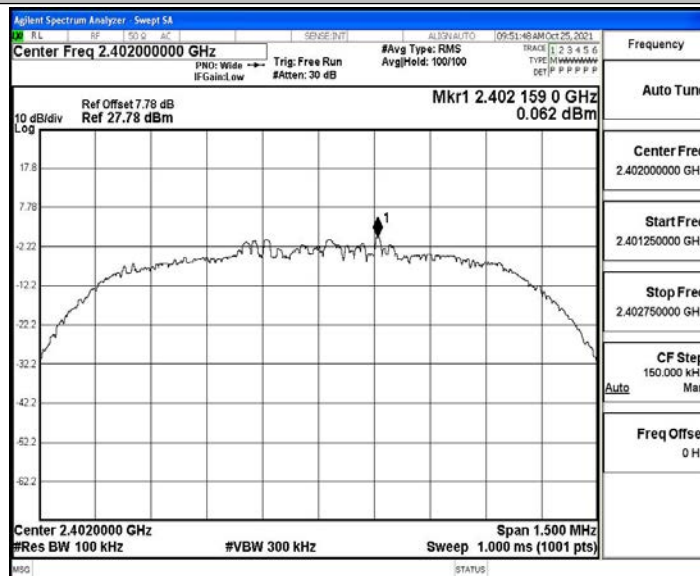
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

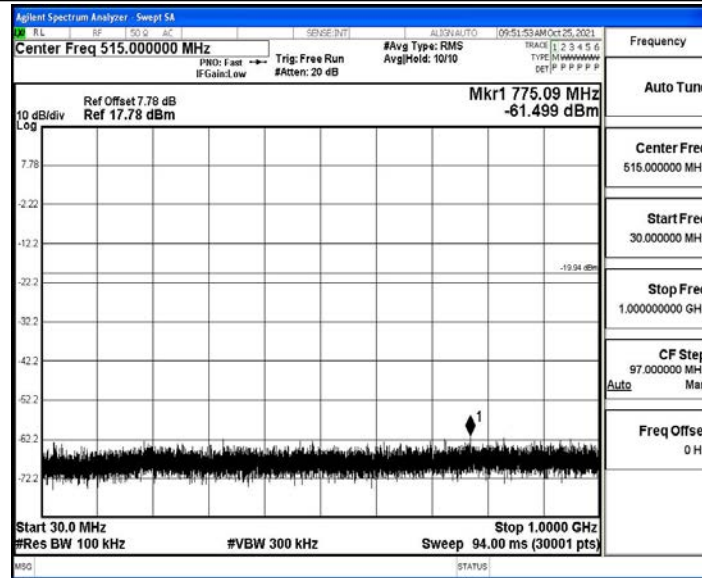


2DH5_Ant1_2402_0~Reference

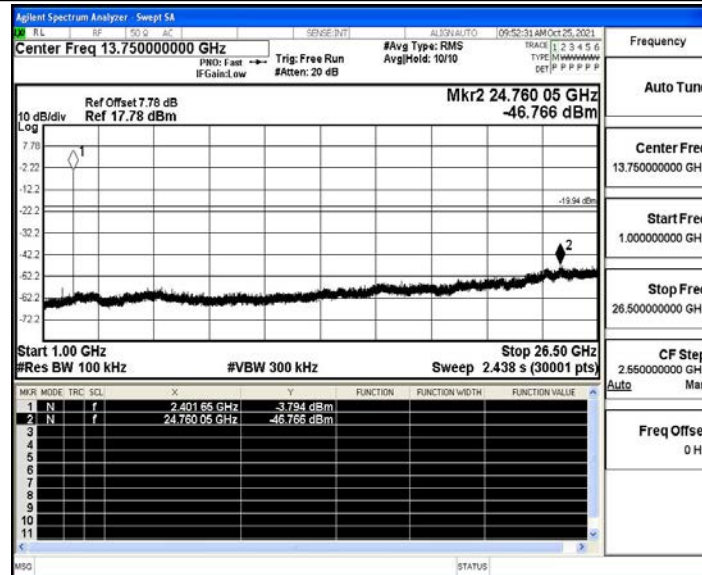




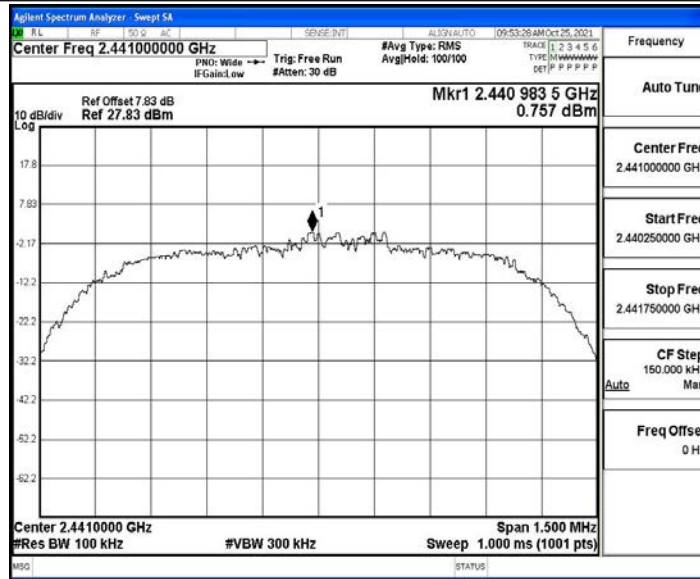
2DH5_Ant1_2402_30~1000



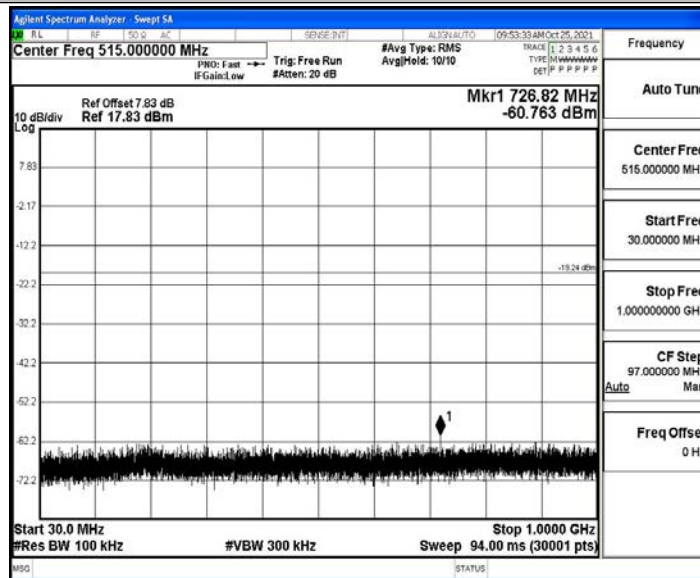
2DH5_Ant1_2402_1000~26500



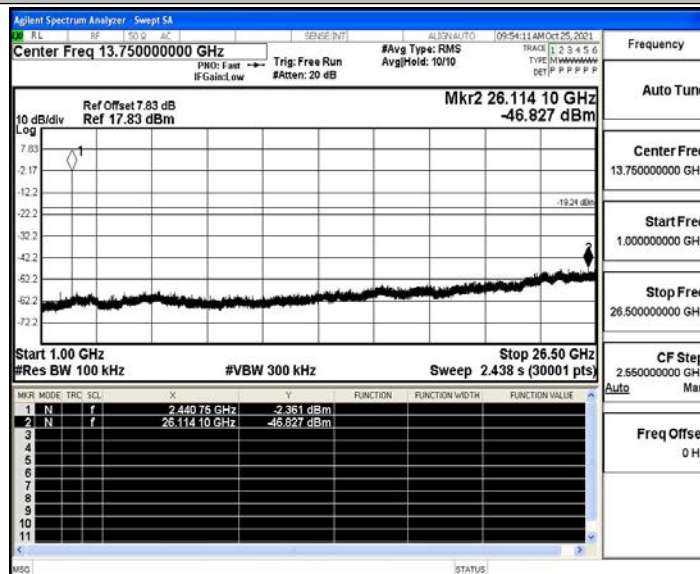
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

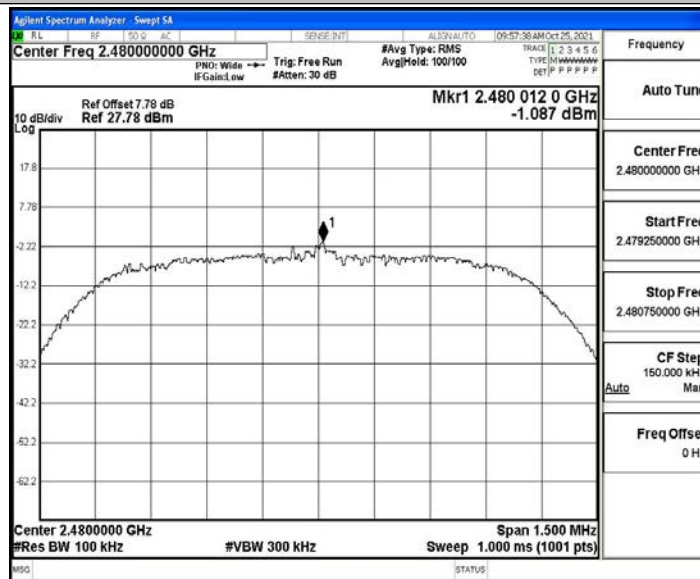


2DH5_Ant1_2441_1000~26500

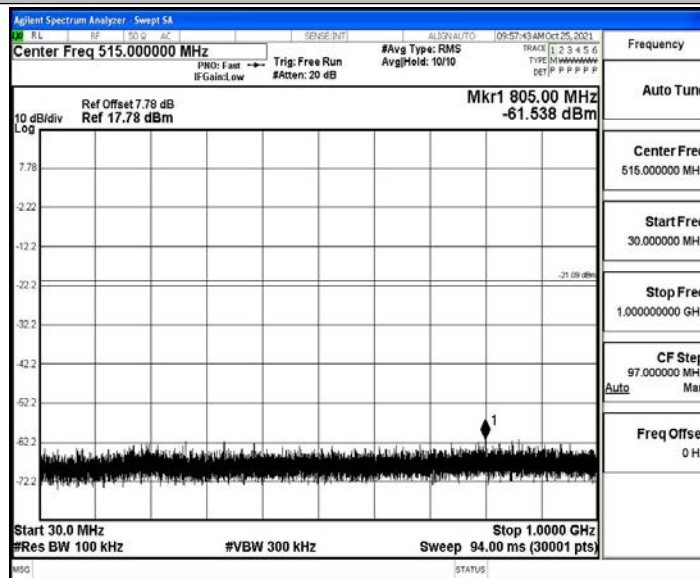




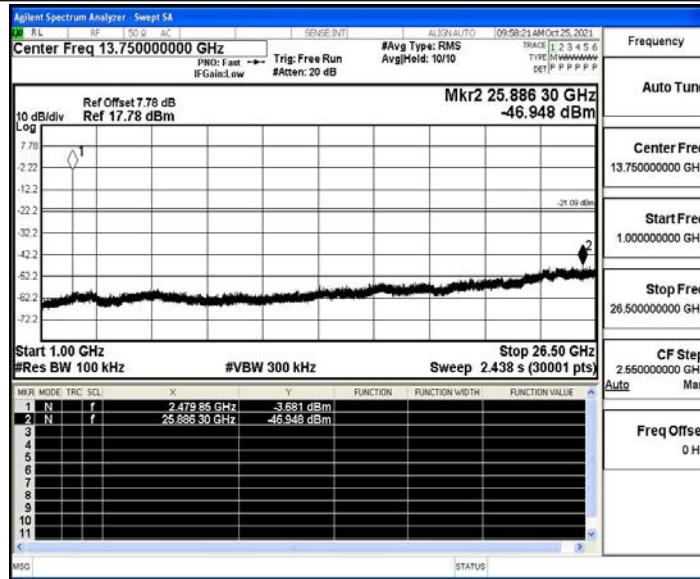
2DH5_Ant1_2480_0~Reference



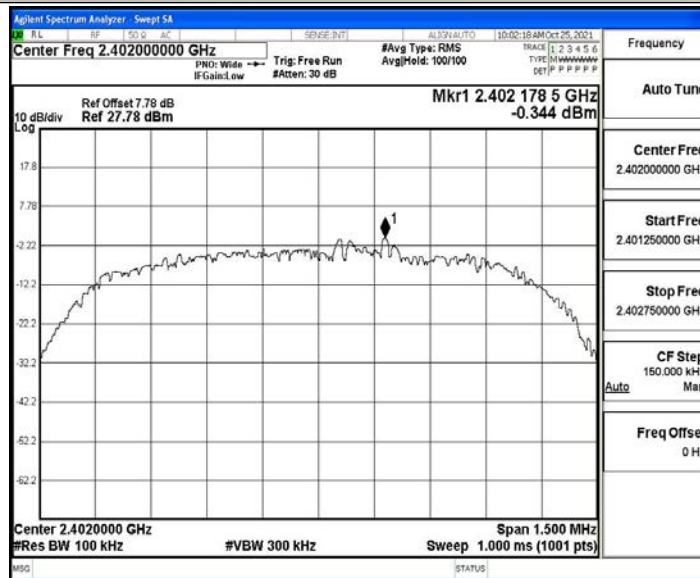
2DH5_Ant1_2480_30~1000



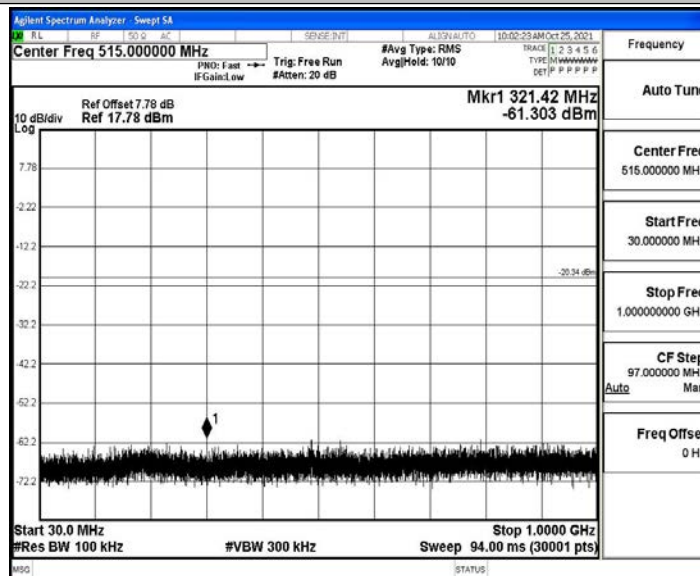
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

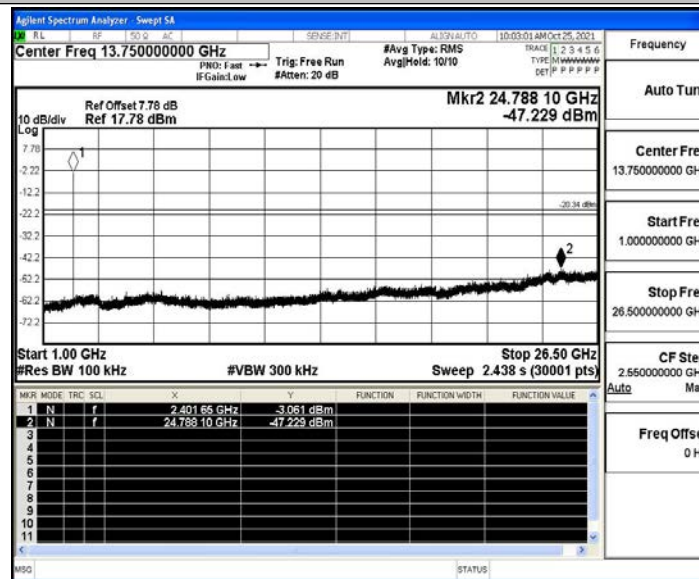


3DH5_Ant1_2402_30~1000

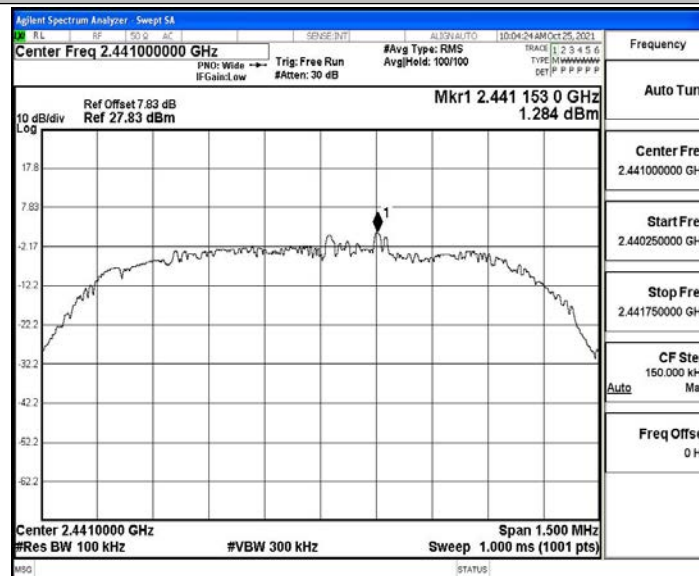




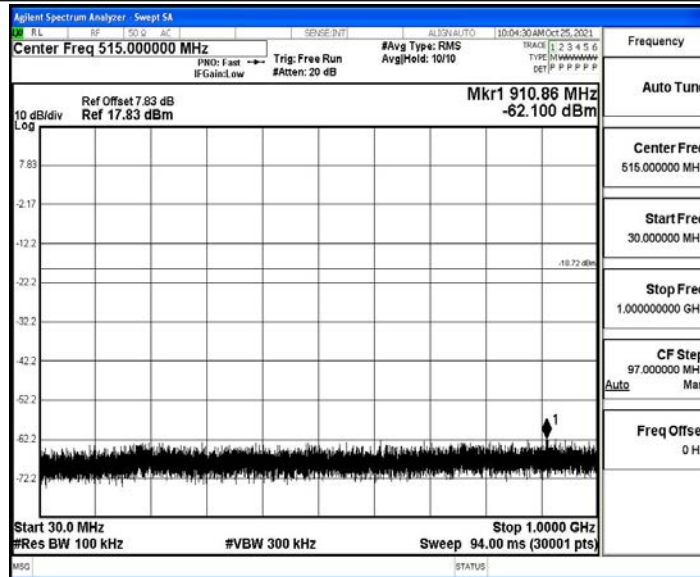
3DH5_Ant1_2402_1000~26500



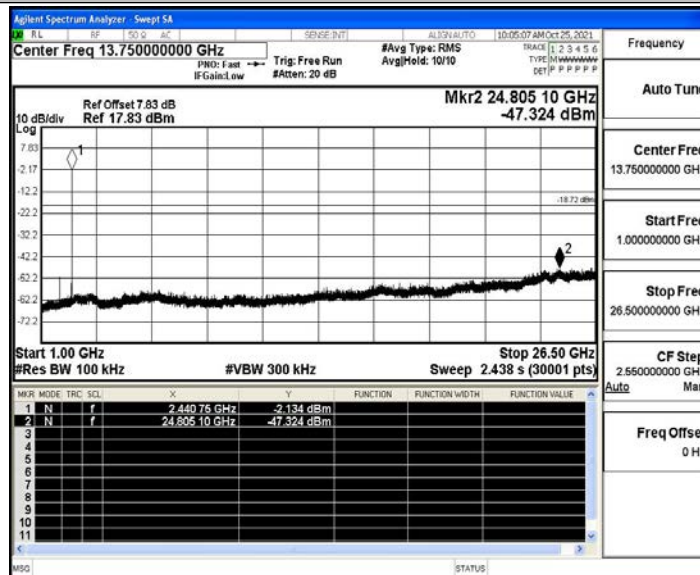
3DH5_Ant1_2441_0~Reference



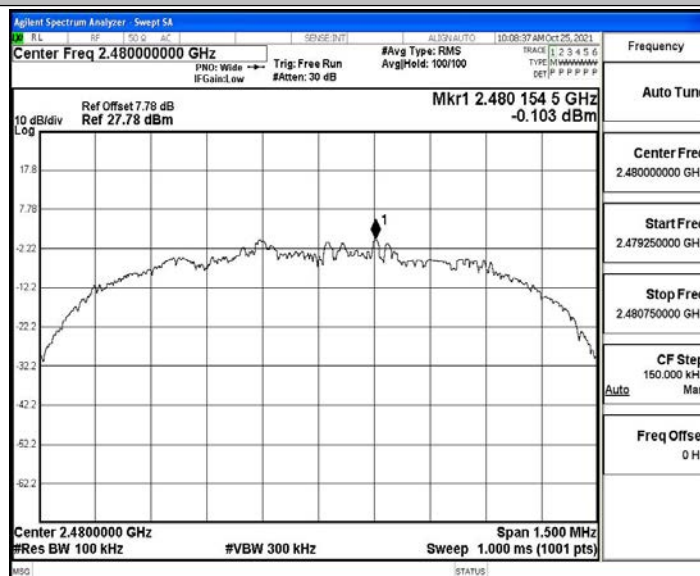
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

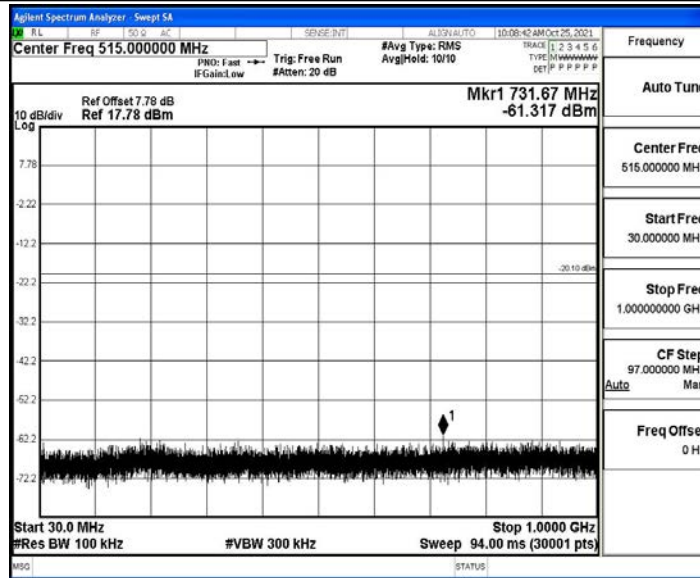


3DH5_Ant1_2480_0~Reference

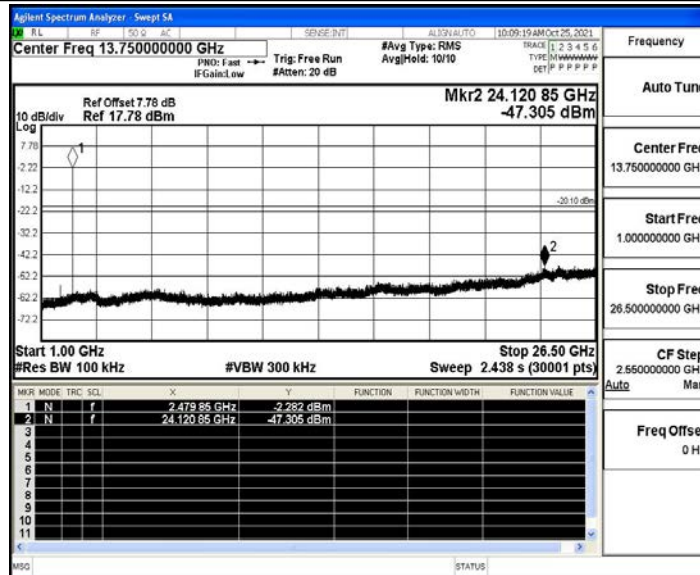




3DH5_Ant1_2480_30~1000



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	-48.91	≤-41.20	46.29	≤54	PASS
				AV	2389.460	-48.49	≤-41.20	46.71	≤54	PASS
				AV	2390.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2310.000	-40.73	≤-21.20	54.47	≤74	PASS
				Peak	2347.775	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2390.000	-40.84	≤-21.20	54.36	≤74	PASS
		High	2480	AV	2483.500	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2494.160	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2500.000	-48.06	≤-41.20	47.14	≤54	PASS
				Peak	2483.500	-39.71	≤-21.20	55.49	≤74	PASS
				Peak	2496.800	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	2500.000	-40.18	≤-21.20	55.02	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2389.985	-48.36	≤-41.20	46.84	≤54	PASS
				AV	2390.000	-48.36	≤-41.20	46.84	≤54	PASS
				Peak	2310.000	-41	≤-21.20	54.20	≤74	PASS
				Peak	2385.155	-37.42	≤-21.20	57.78	≤74	PASS
				Peak	2390.000	-40.94	≤-21.20	54.26	≤74	PASS
		High	2480	AV	2483.500	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2499.760	-47.77	≤-41.20	47.43	≤54	PASS
				AV	2500.000	-47.93	≤-41.20	47.27	≤54	PASS
				Peak	2483.500	-40.64	≤-21.20	54.56	≤74	PASS
				Peak	2497.760	-37.88	≤-21.20	57.32	≤74	PASS
				Peak	2500.000	-40.31	≤-21.20	54.89	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2387.570	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2390.000	-48.51	≤-41.20	46.69	≤54	PASS
				Peak	2310.000	-41.26	≤-21.20	53.94	≤74	PASS
				Peak	2326.670	-38	≤-21.20	57.20	≤74	PASS
				Peak	2390.000	-40.6	≤-21.20	54.60	≤74	PASS
		High	2480	AV	2483.500	-47.63	≤-41.20	47.57	≤54	PASS
				AV	2483.520	-47.63	≤-41.20	47.57	≤54	PASS
				AV	2500.000	-47.92	≤-41.20	47.28	≤54	PASS
				Peak	2483.500	-39.48	≤-21.20	55.72	≤74	PASS
				Peak	2498.720	-38.24	≤-21.20	56.96	≤74	PASS
				Peak	2500.000	-38.69	≤-21.20	56.51	≤74	PASS



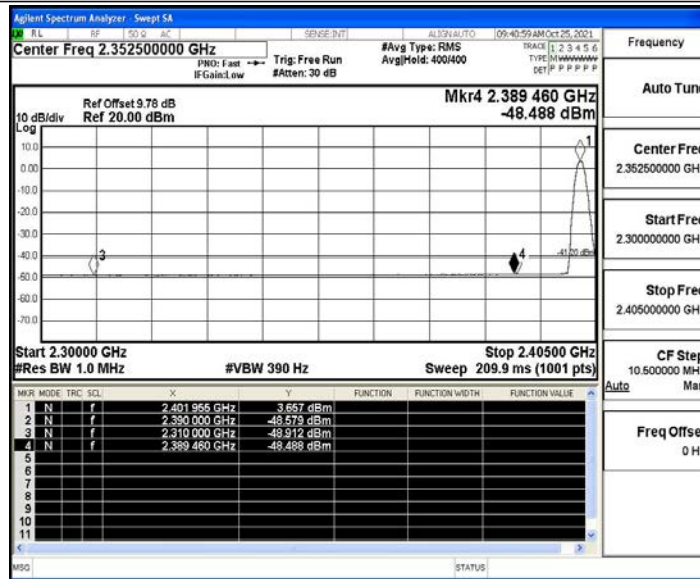
Note:

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.

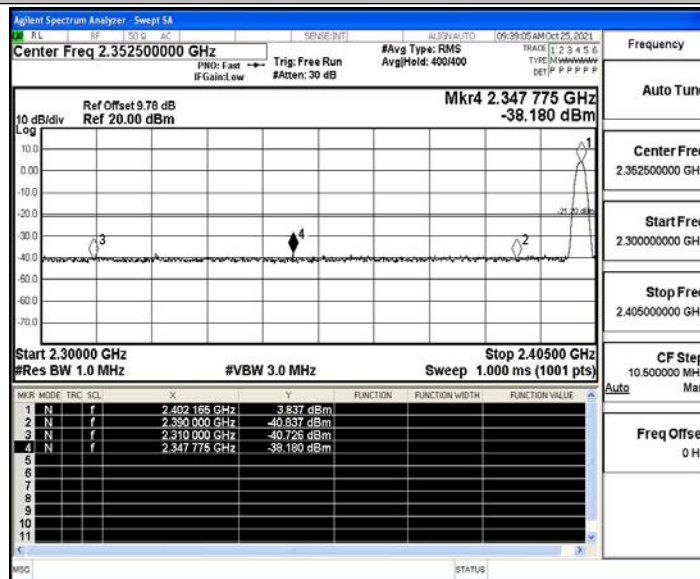


Test Graphs

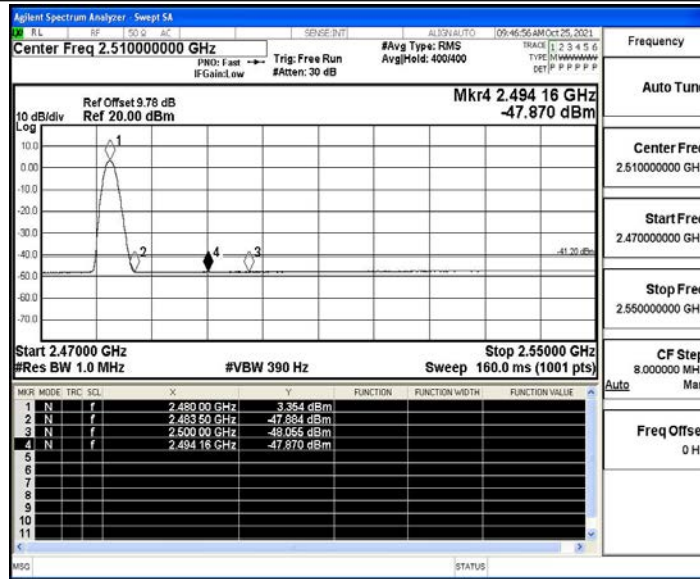
DH5_Ant1_Low_2402_AV



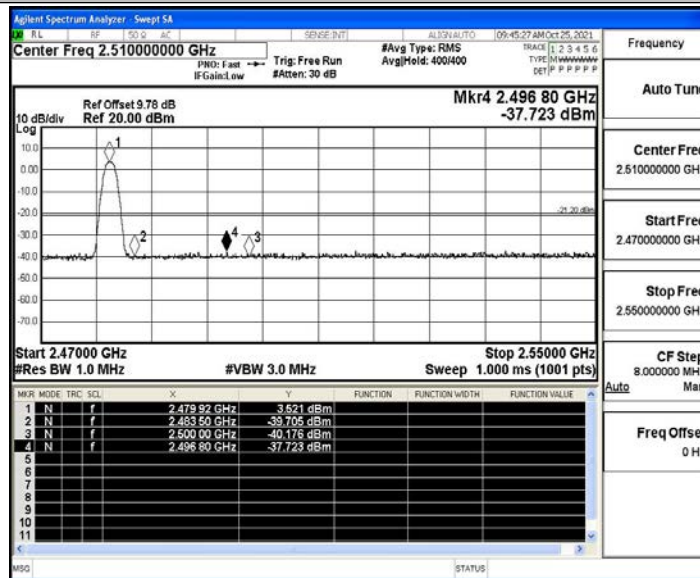
DH5_Ant1_Low_2402_Peak



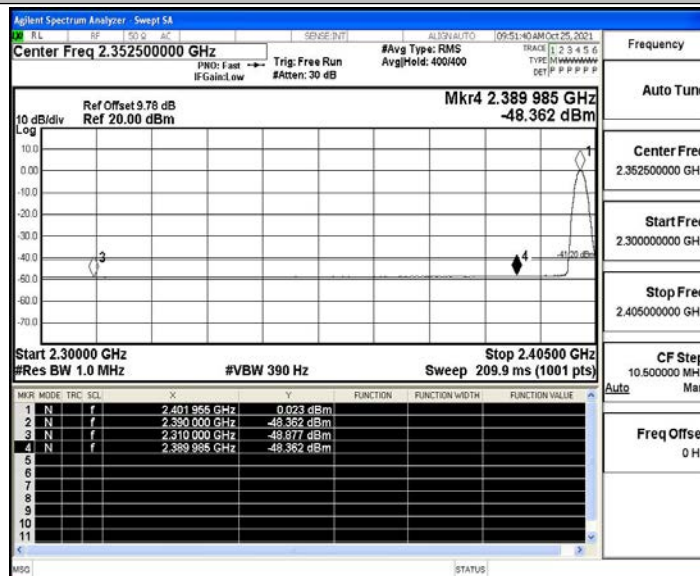
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

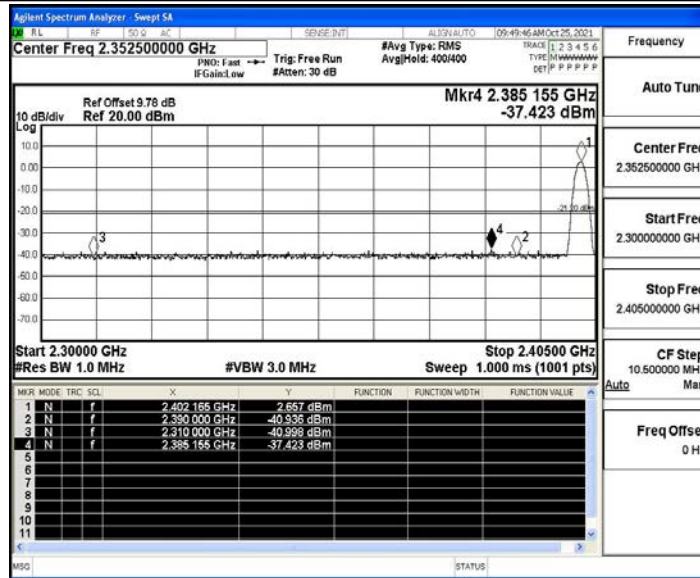


2DH5_Ant1_Low_2402_AV

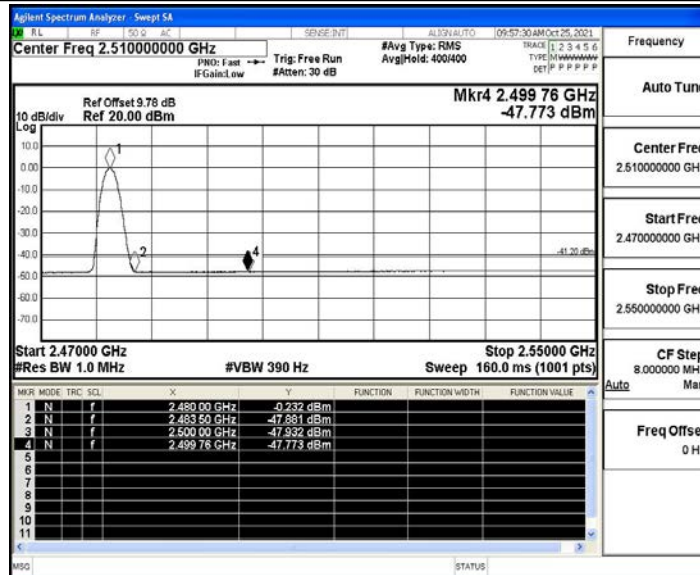




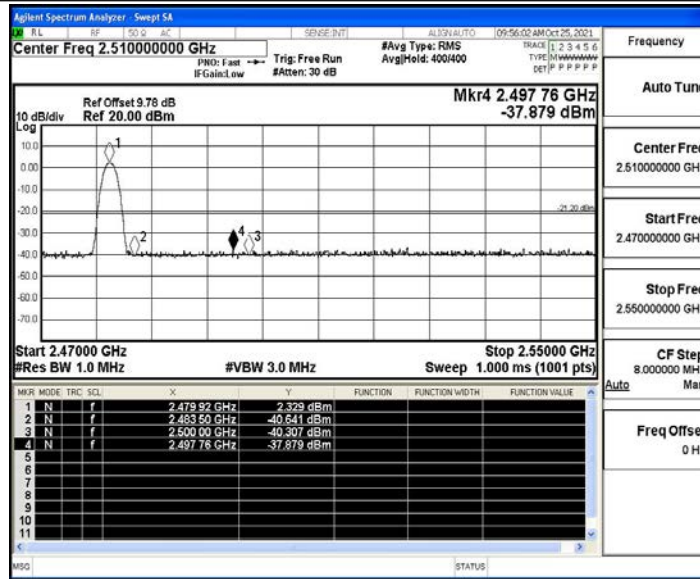
2DH5_Ant1_Low_2402_Peak



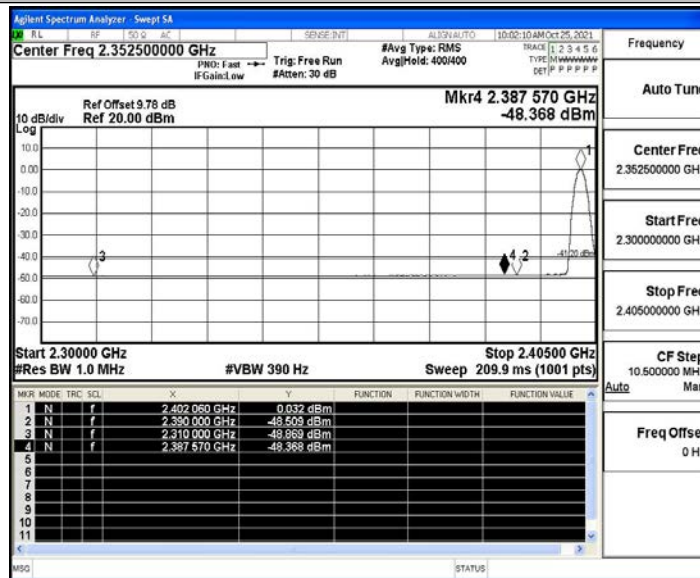
2DH5_Ant1_High_2480_AV



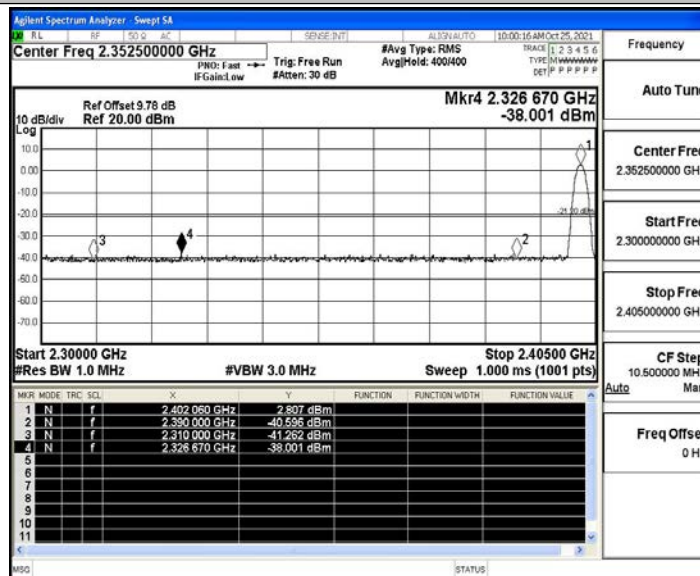
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

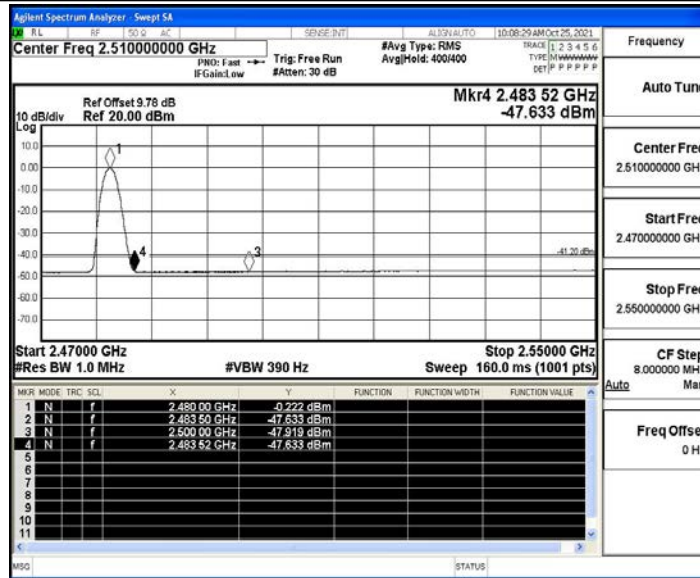


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

