



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart phone

Test Model: Smooth 6.26 Max

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	LI Huan

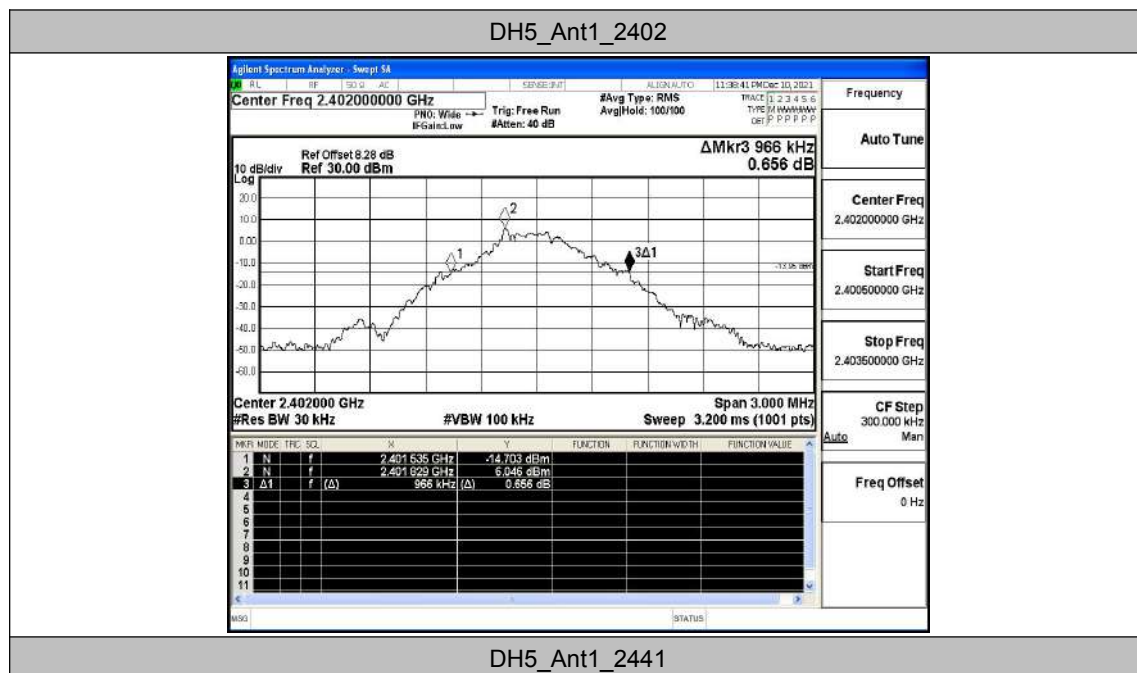


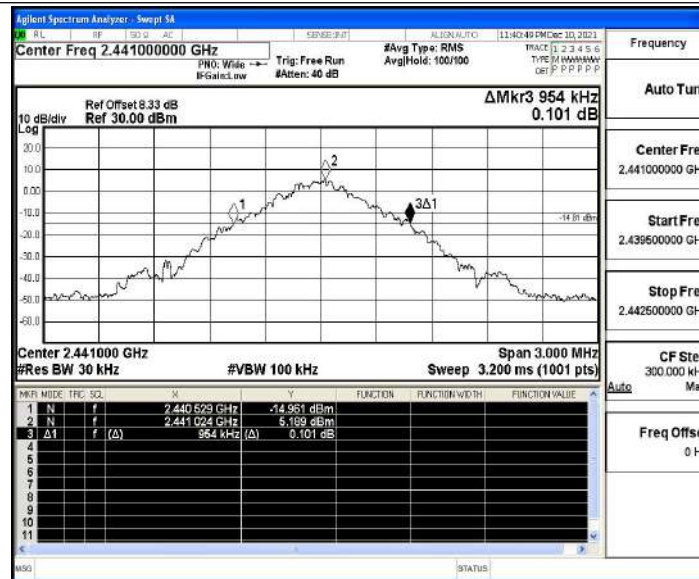
A.1 20dB Emission Bandwidth

Test Result

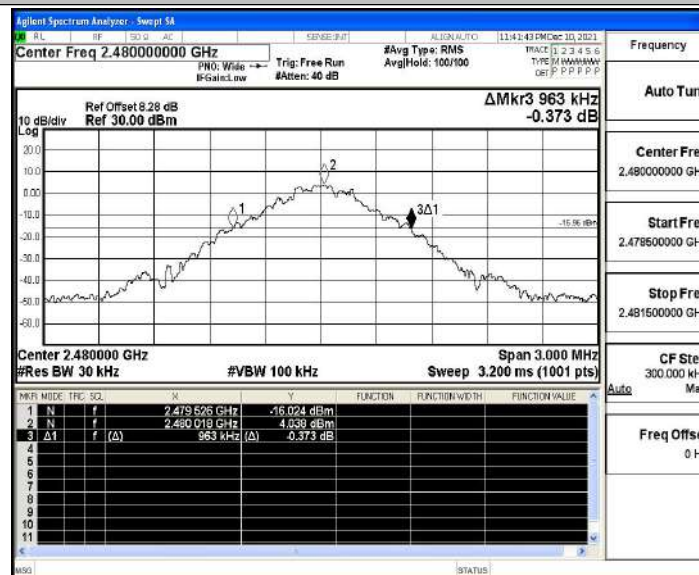
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.535	2402.501	---	PASS
		2441	0.954	2440.529	2441.483	---	PASS
		2480	0.963	2479.526	2480.489	---	PASS
2DH5	Ant1	2402	1.296	2401.355	2402.651	---	PASS
		2441	1.293	2440.355	2441.648	---	PASS
		2480	1.290	2479.358	2480.648	---	PASS
3DH5	Ant1	2402	1.308	2401.340	2402.648	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.338	2479.325	2480.663	---	PASS

Test Graphs

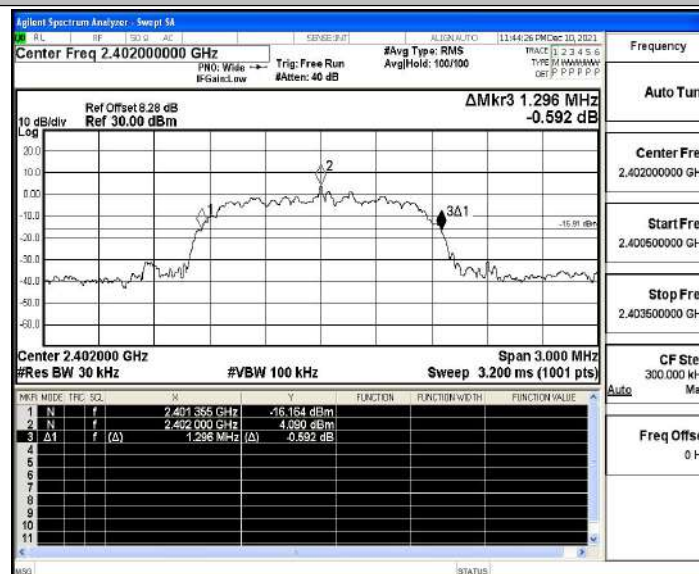




DH5_Ant1_2480

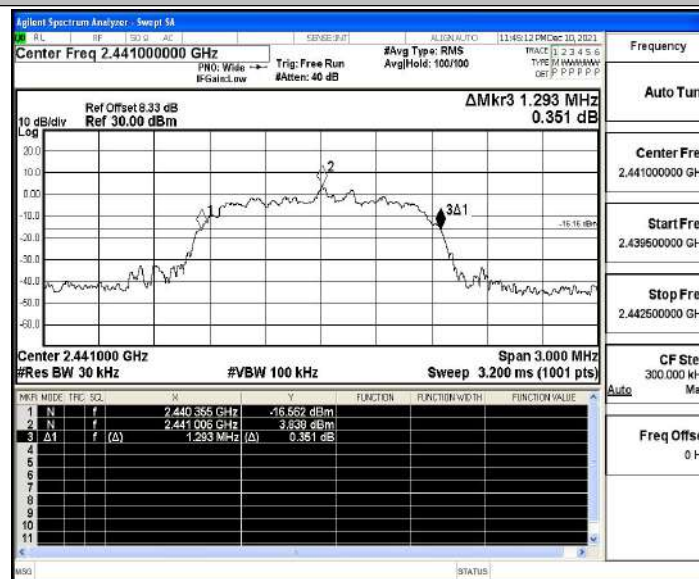


2DH5_Ant1_2402

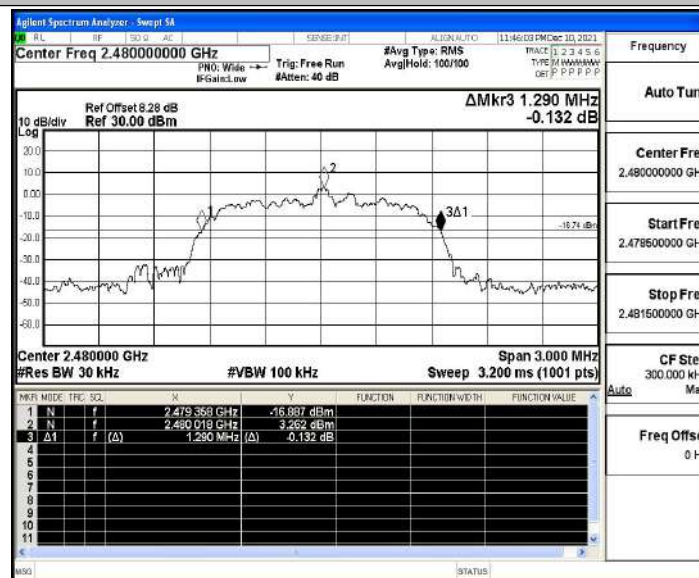




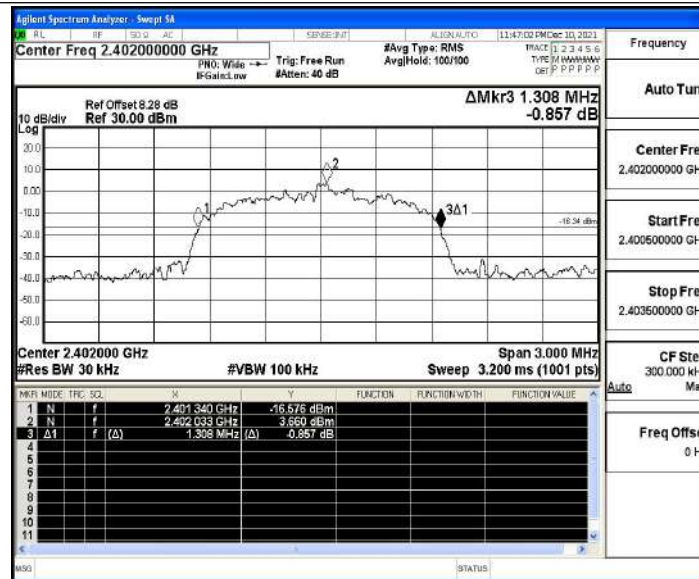
2DH5_Ant1_2441



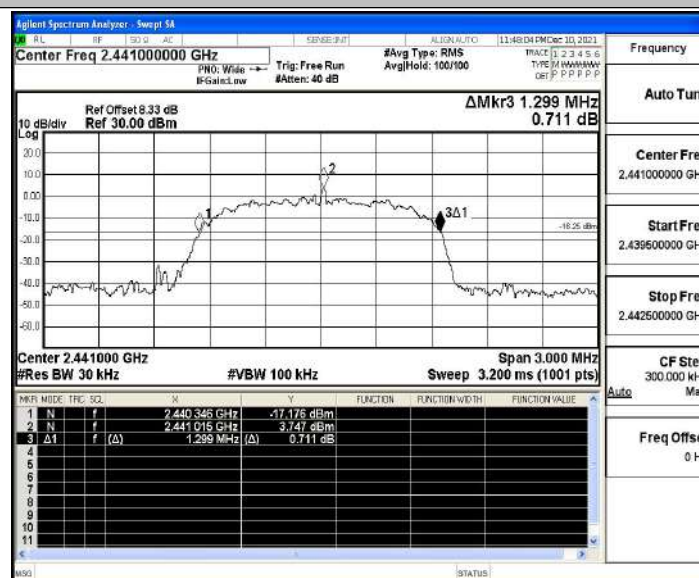
2DH5_Ant1_2480



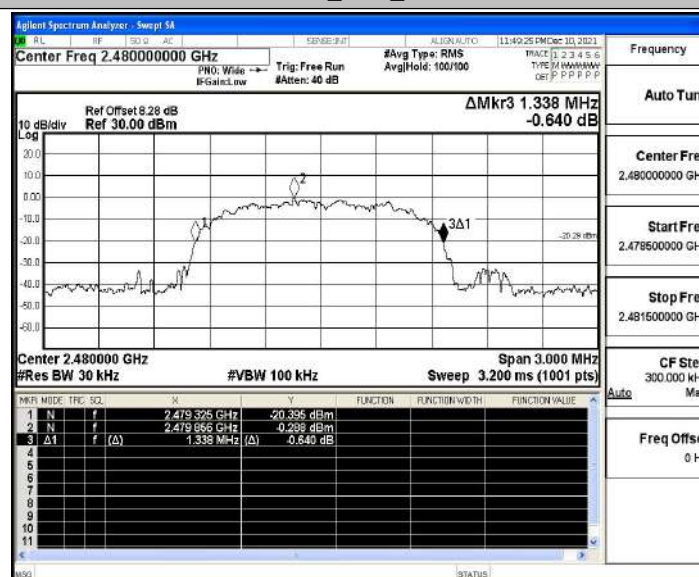
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



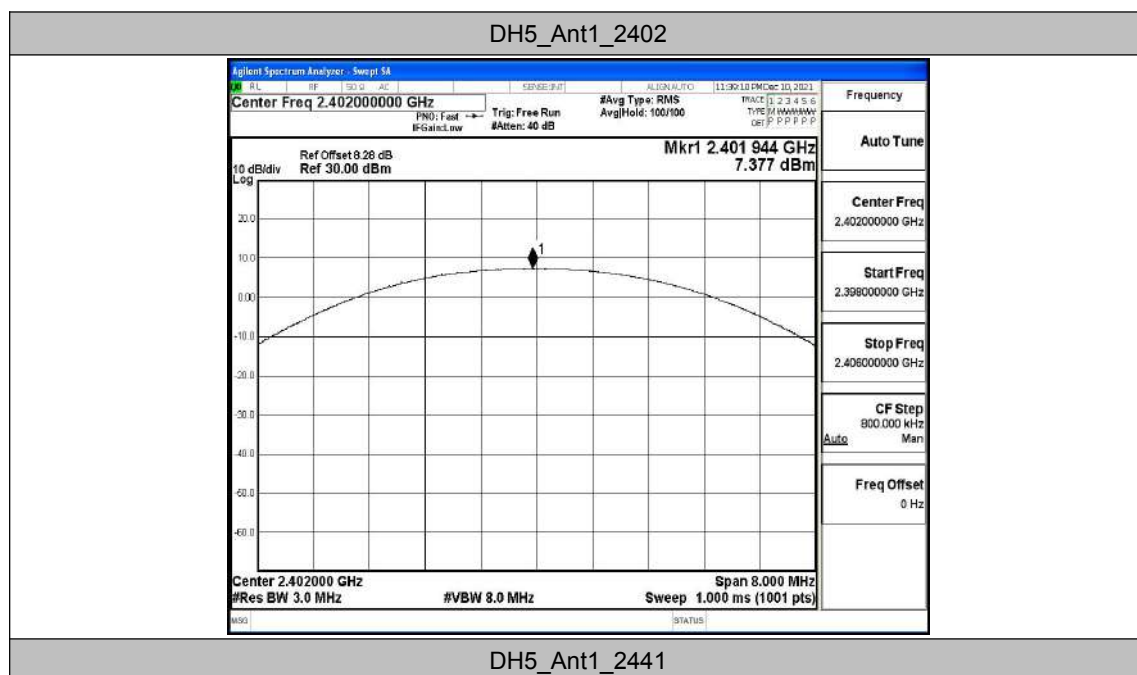


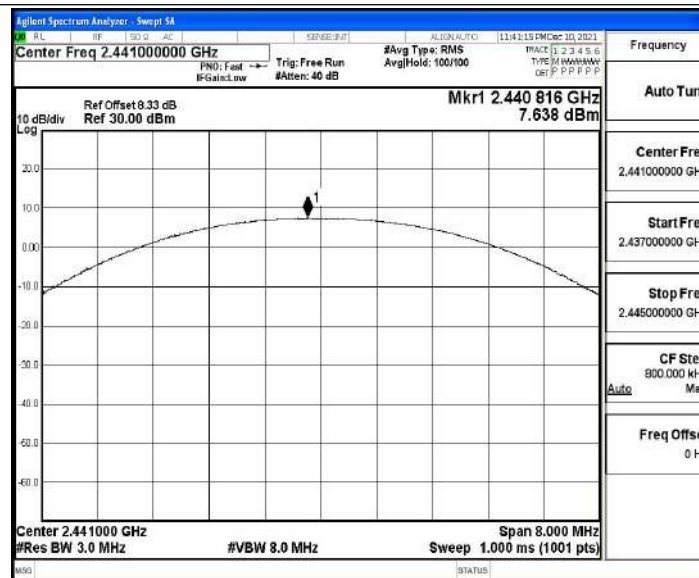
A.2 Maximum conducted output power

Test Result Peak

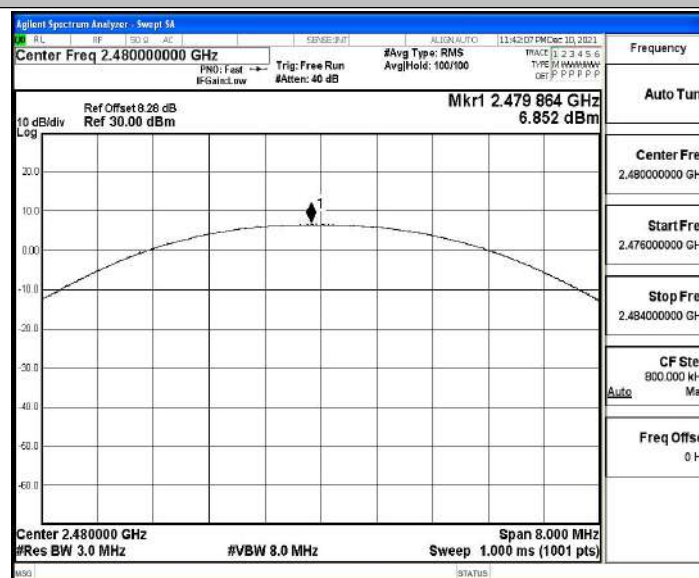
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	7.38	≤20.97	PASS
		2441	7.64	≤20.97	PASS
		2480	6.85	≤20.97	PASS
2DH5	Ant1	2402	8.41	≤20.97	PASS
		2441	8.32	≤20.97	PASS
		2480	7.37	≤20.97	PASS
3DH5	Ant1	2402	8.71	≤20.97	PASS
		2441	8.66	≤20.97	PASS
		2480	7.77	≤20.97	PASS

Test Graphs

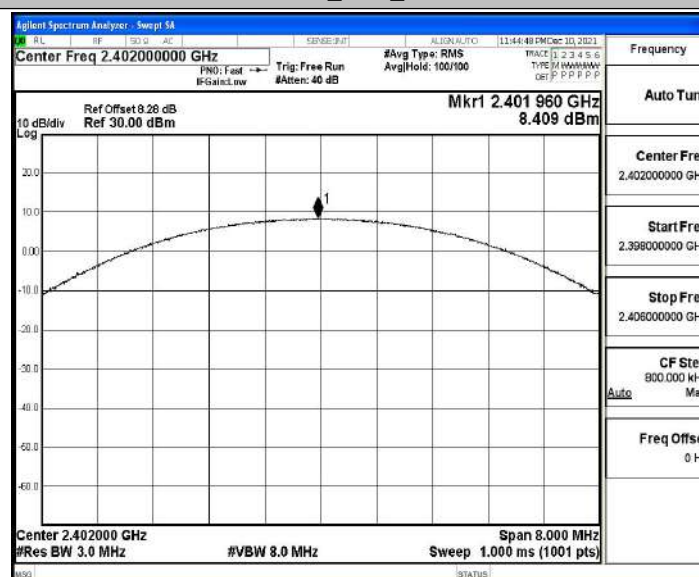




DH5_Ant1_2480

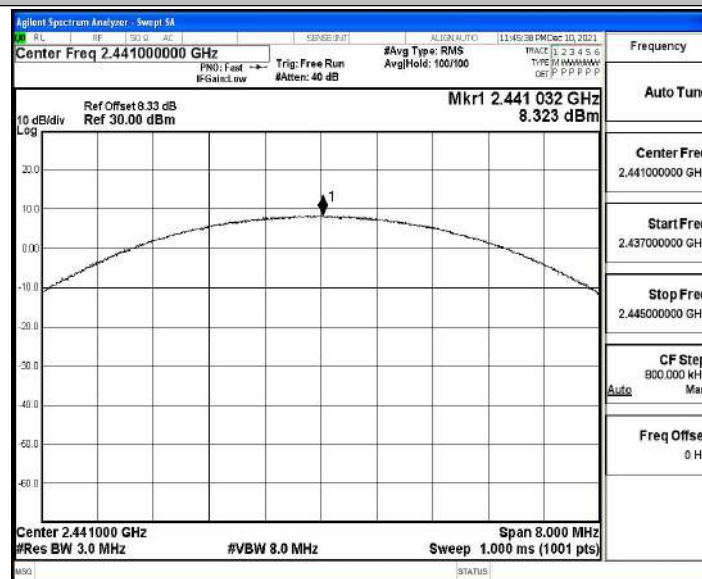


2DH5_Ant1_2402

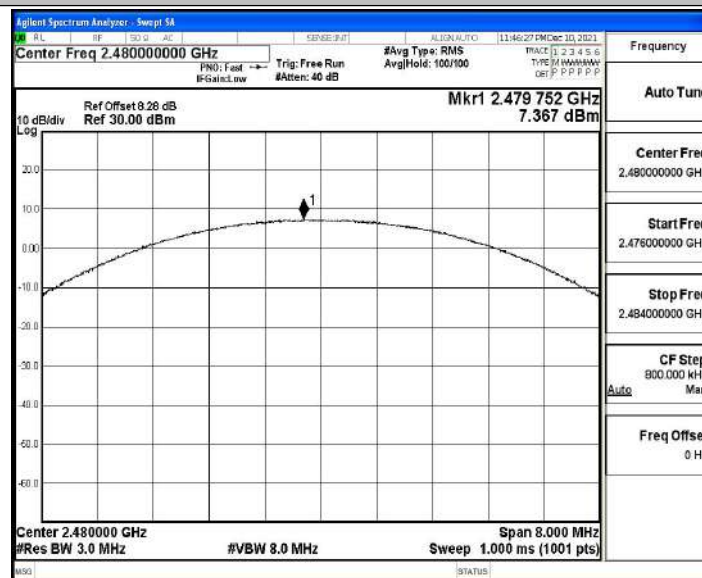




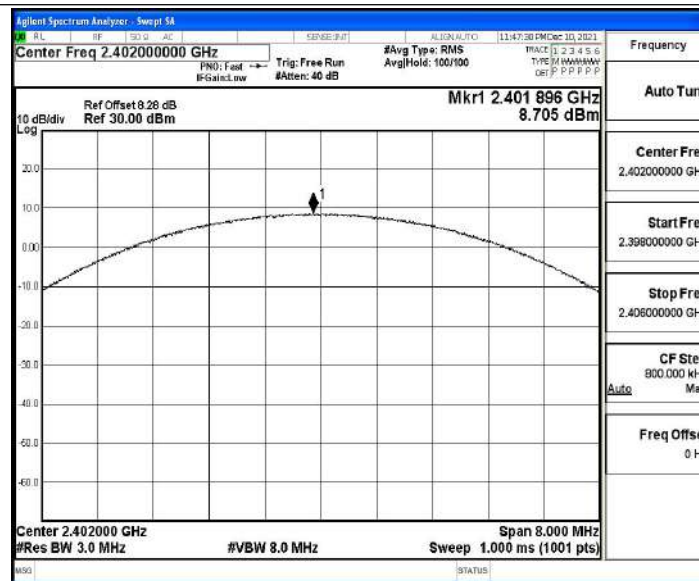
2DH5_Ant1_2441



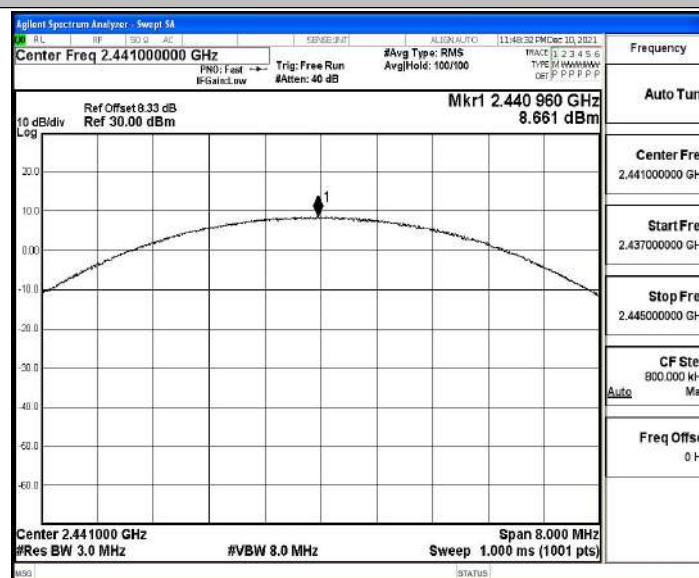
2DH5_Ant1_2480



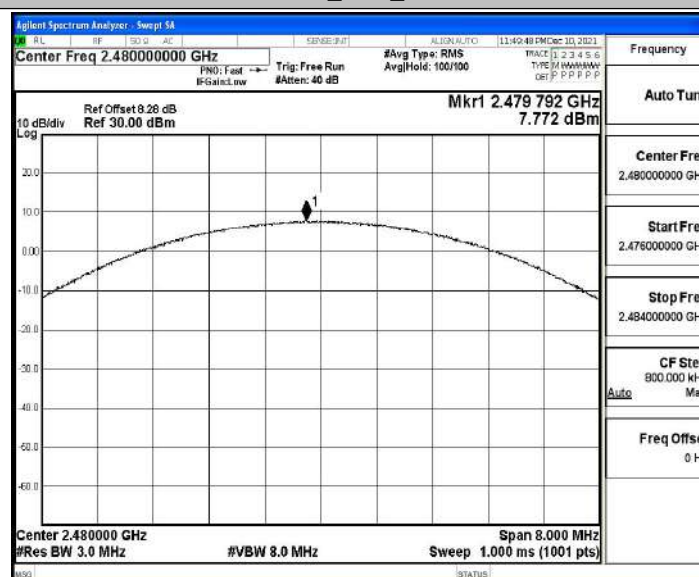
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



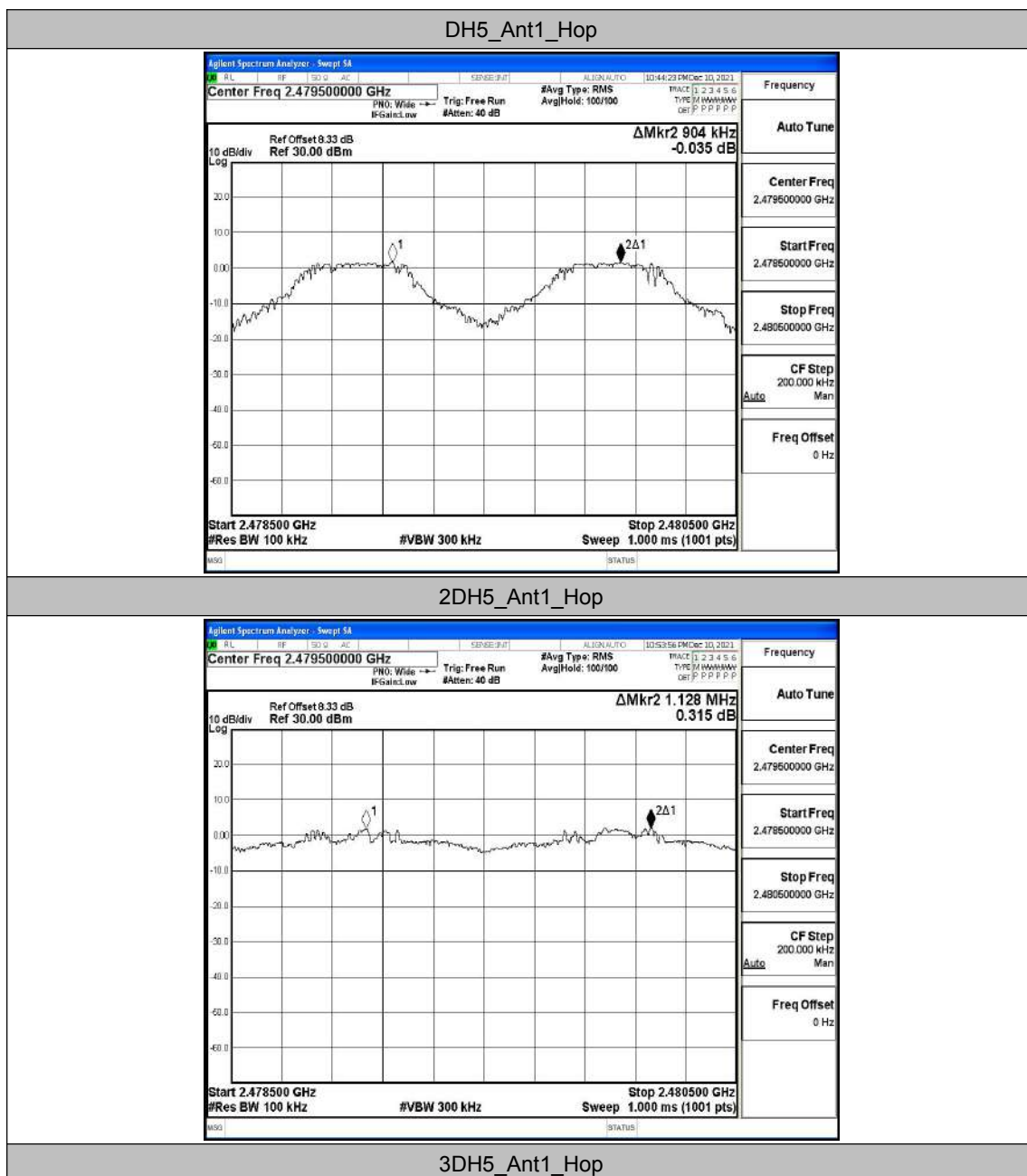


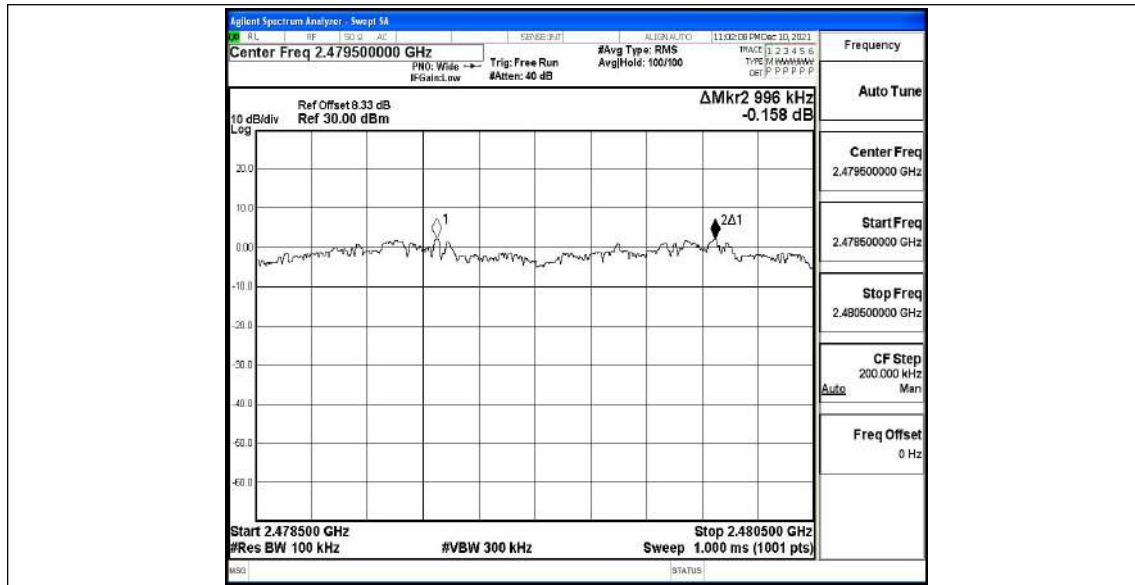
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.904	≥ 0.670	PASS
2DH5	Ant1	Hop	1.128	≥ 0.900	PASS
3DH5	Ant1	Hop	0.996	≥ 0.872	PASS

Test Graphs





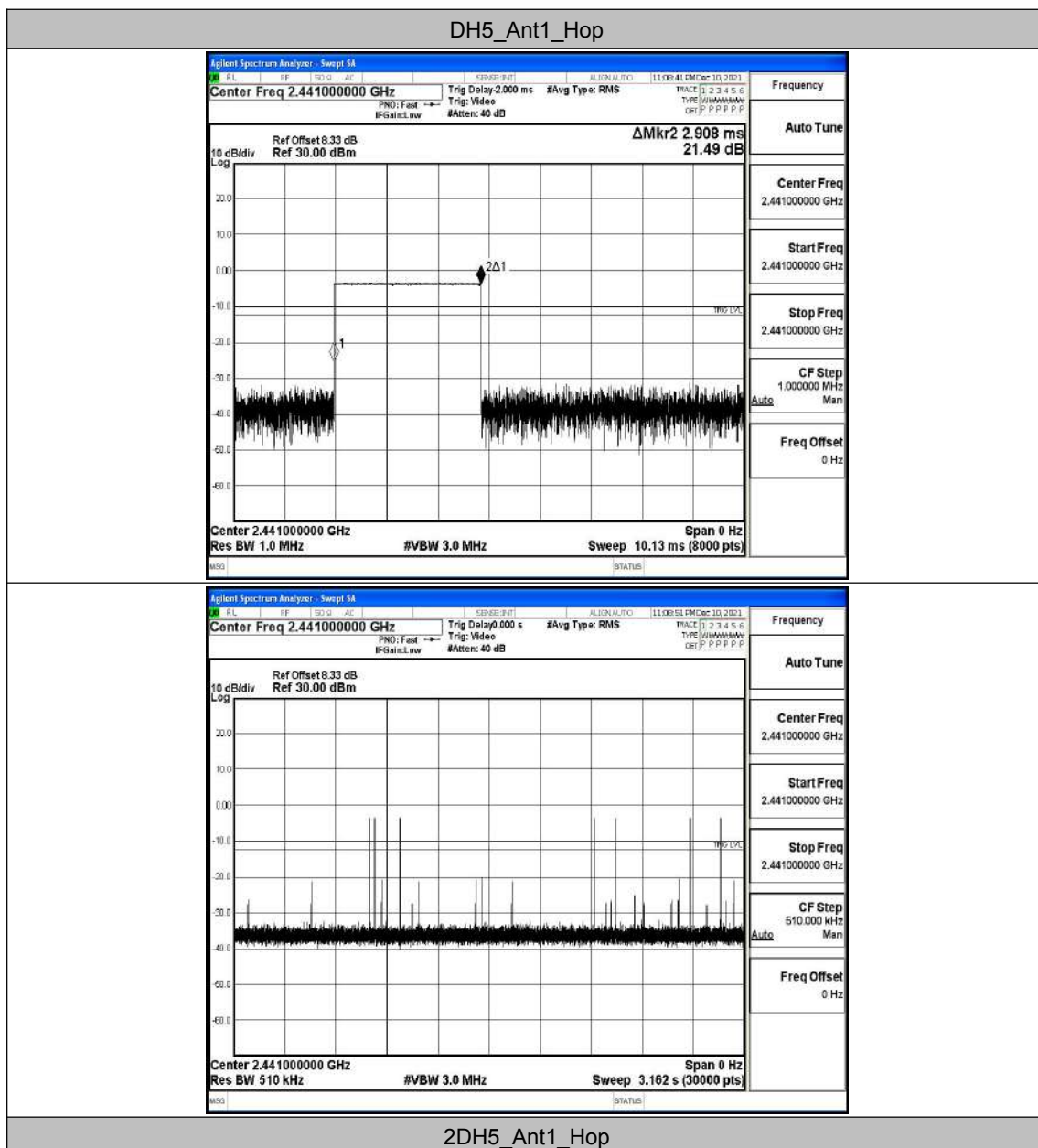


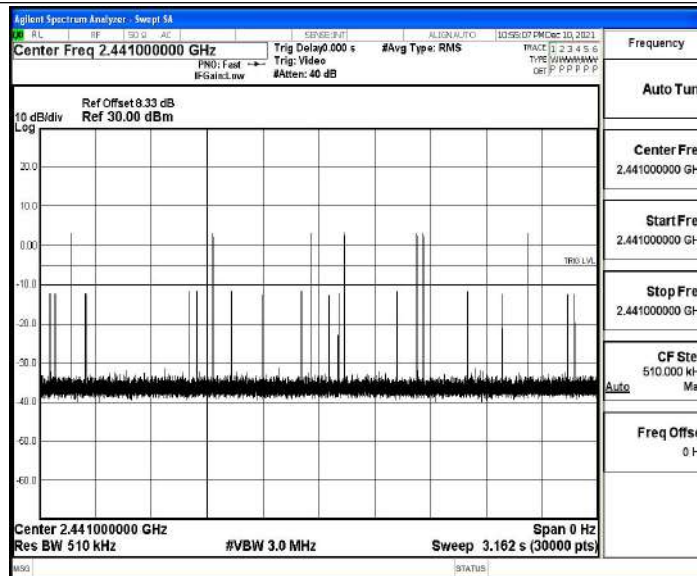
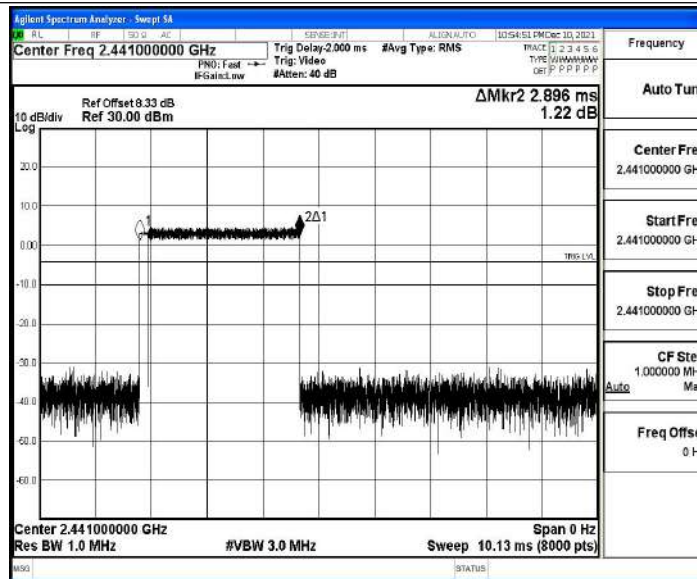
A.4 Time of occupancy

Test Result

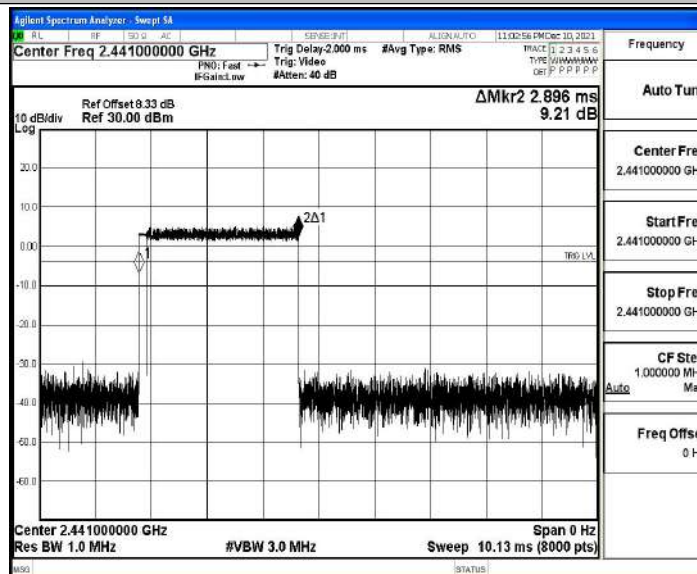
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.91	80	0.233	≤0.4	PASS
2DH5	Ant1	Hop	2.90	80	0.232	≤0.4	PASS
3DH5	Ant1	Hop	2.90	110	0.319	≤0.4	PASS

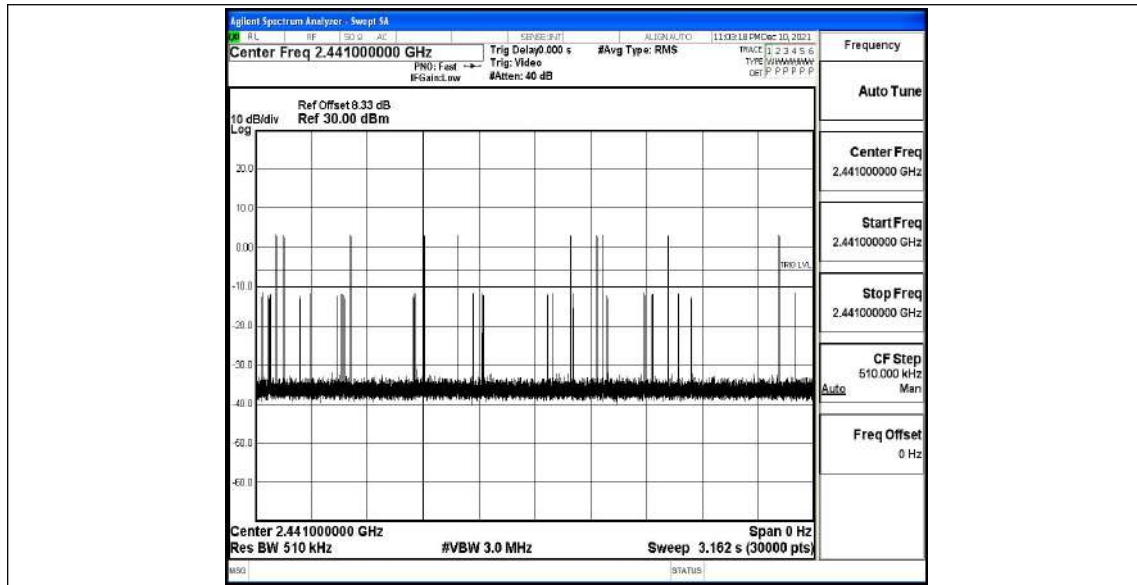
Test Graphs





3DH5_Ant1_Hop





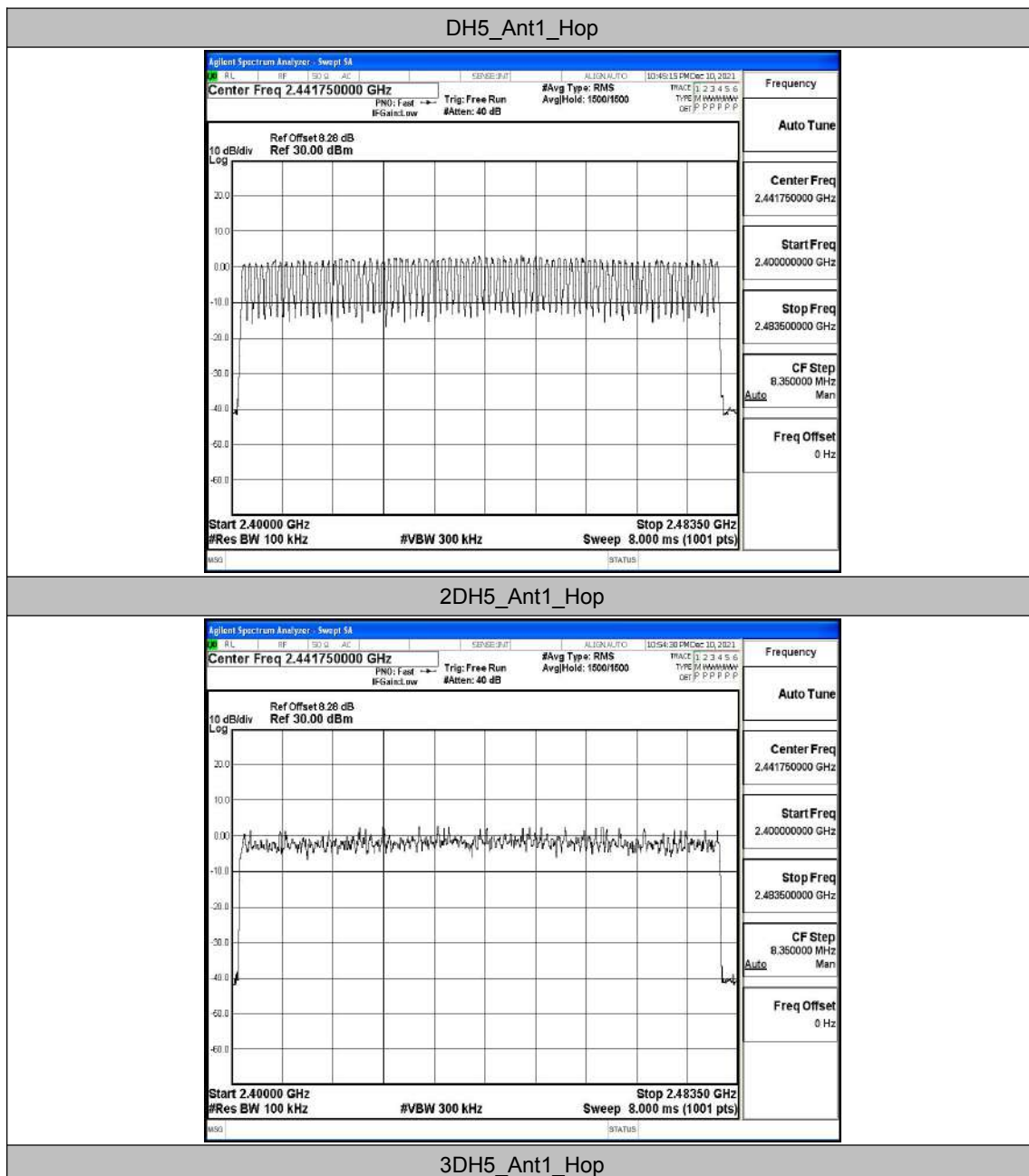


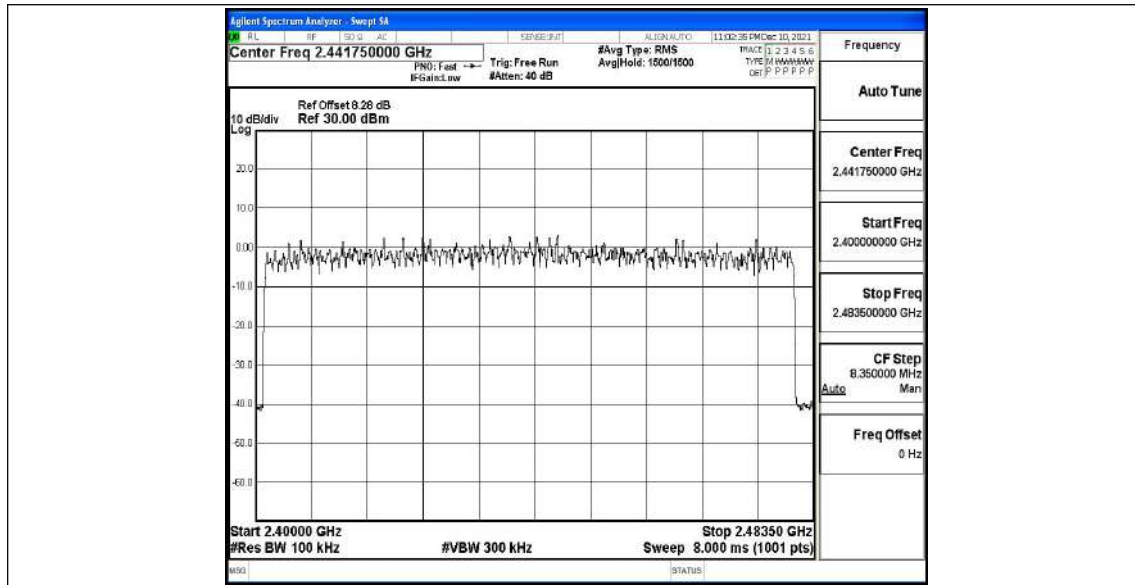
A.5 Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	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

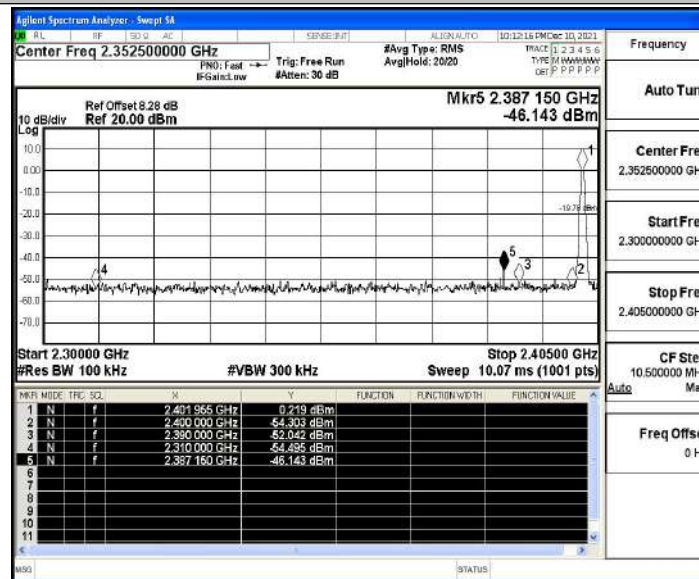
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.22	-46.14	≤ -19.78	PASS
		High	2480	1.94	-49.36	≤ -18.07	PASS
		Low	Hop_2402	0.73	-30.25	≤ -19.27	PASS
		High	Hop_2480	2.22	-39.32	≤ -17.78	PASS
2DH5	Ant1	Low	2402	0.78	-50.03	≤ -19.22	PASS
		High	2480	-0.69	-49.62	≤ -20.69	PASS
		Low	Hop_2402	-1.63	-39.42	≤ -21.63	PASS
		High	Hop_2480	2.22	-36.45	≤ -17.78	PASS
3DH5	Ant1	Low	2402	1.18	-50.66	≤ -18.82	PASS
		High	2480	1.27	-42.82	≤ -18.73	PASS
		Low	Hop_2402	1.09	-47.02	≤ -18.91	PASS
		High	Hop_2480	2.12	-33.06	≤ -17.88	PASS

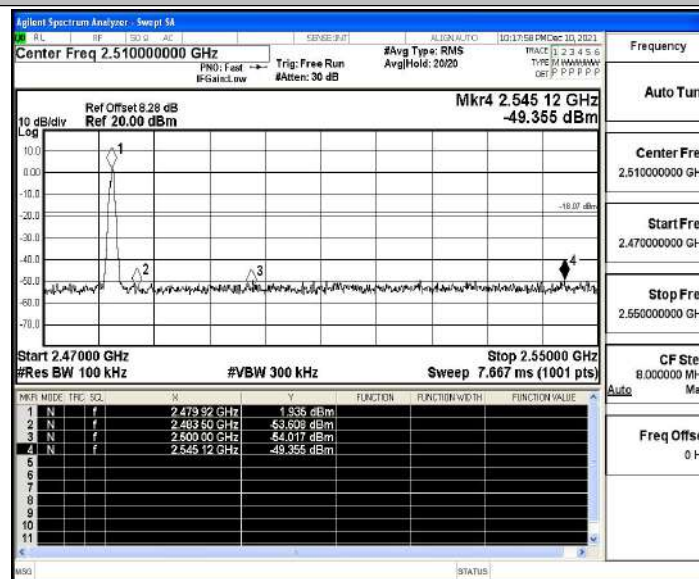


Test Graphs

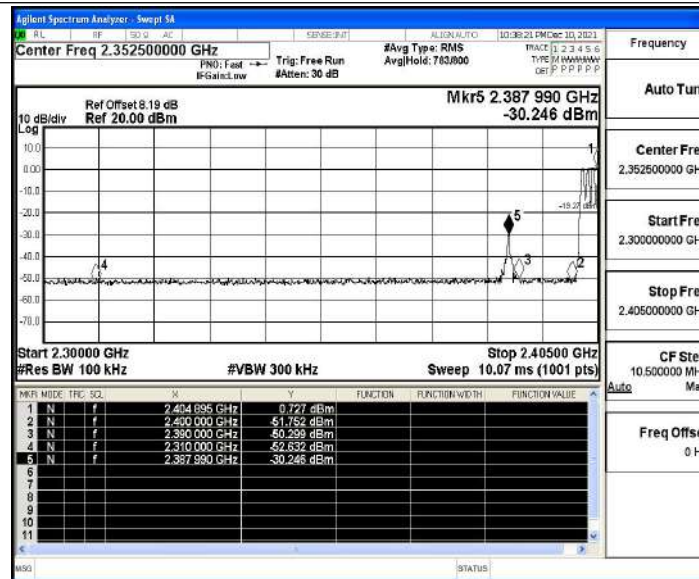
DH5_Ant1_Low_2402



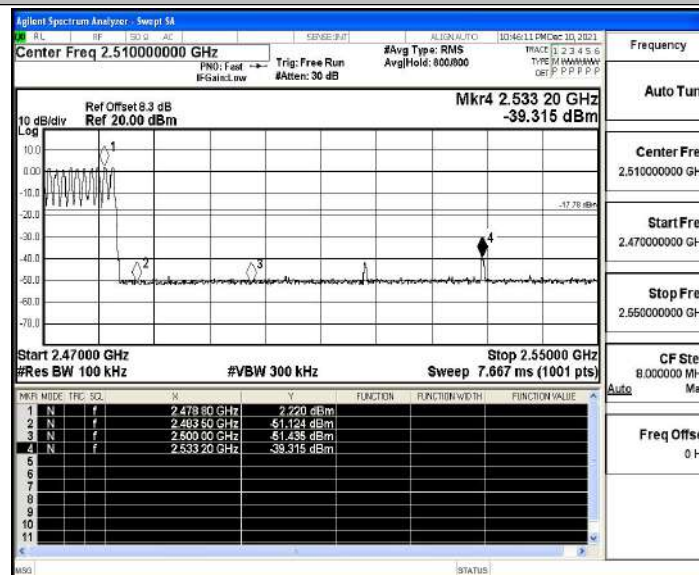
DH5_Ant1_High_2480



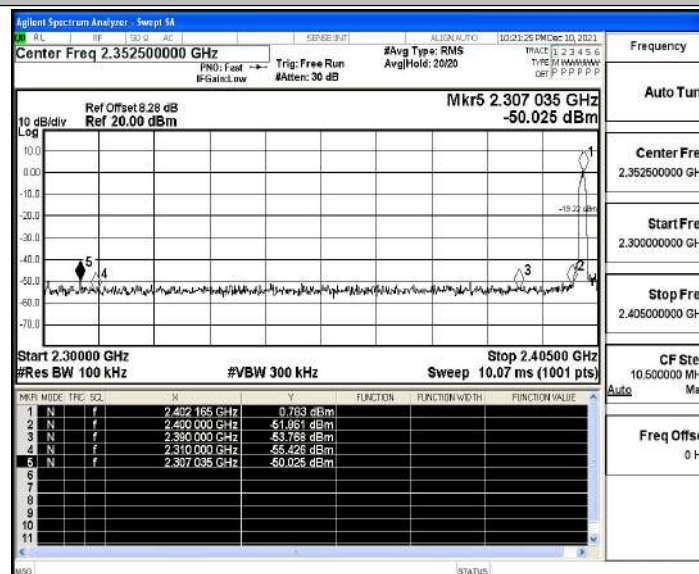
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

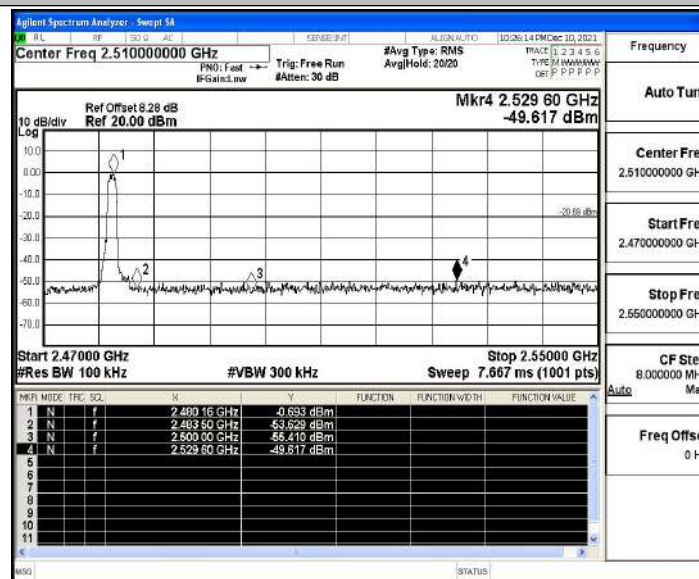


2DH5_Ant1_Low_2402

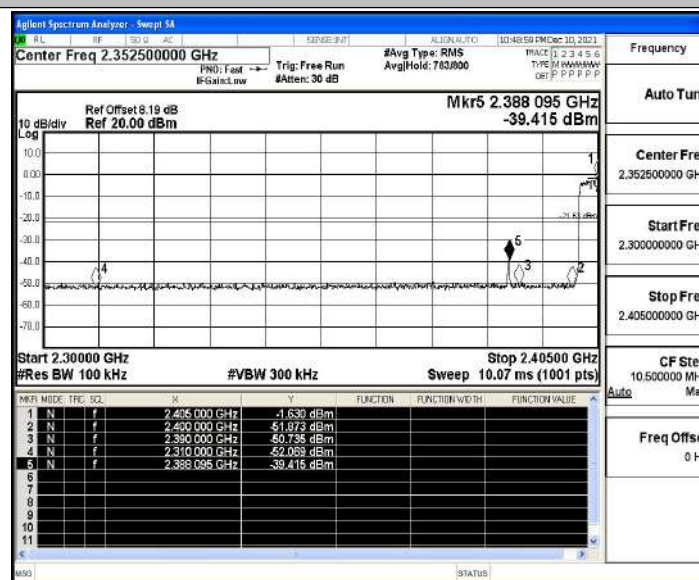




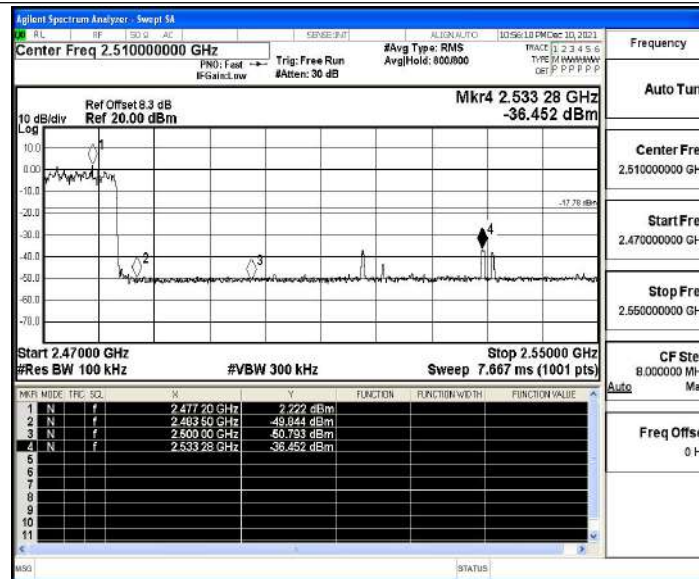
2DH5_Ant1_High_2480



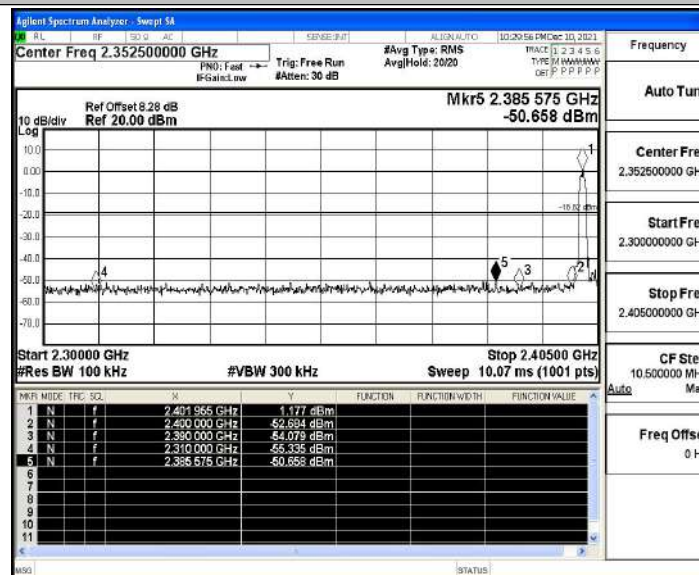
2DH5_Ant1_Low_Hop_2402



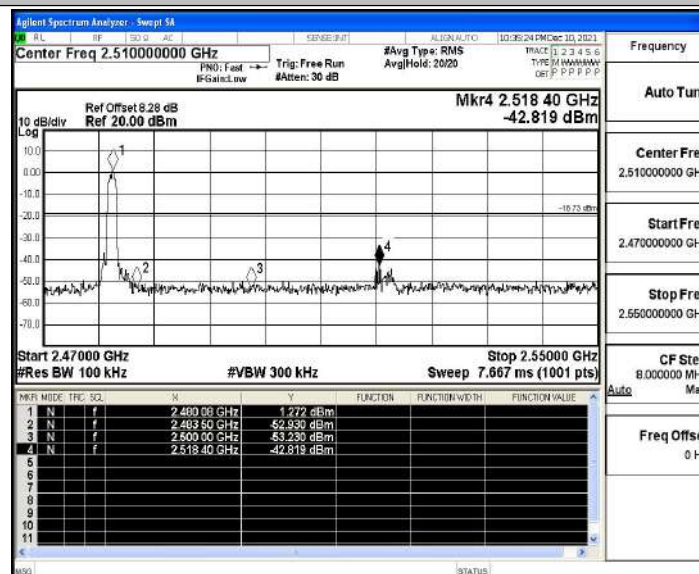
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

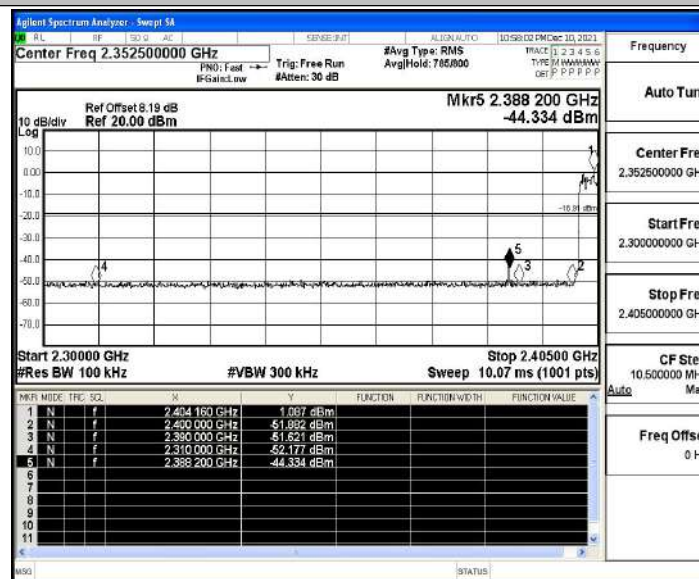


3DH5_Ant1_High_2480

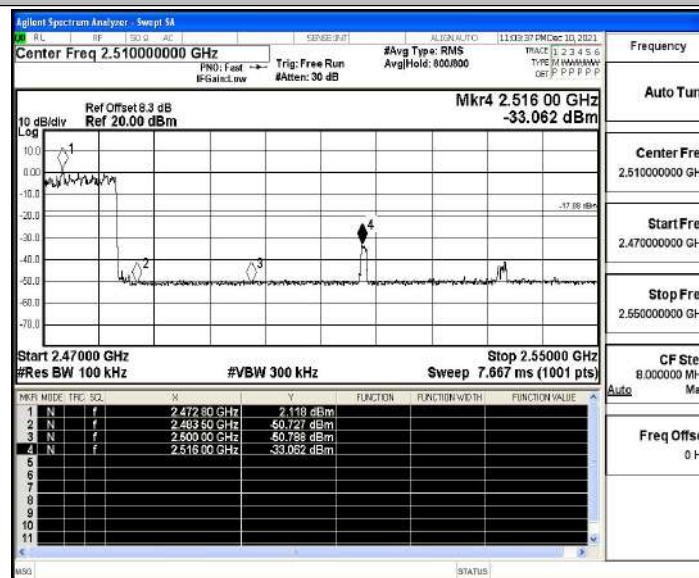




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

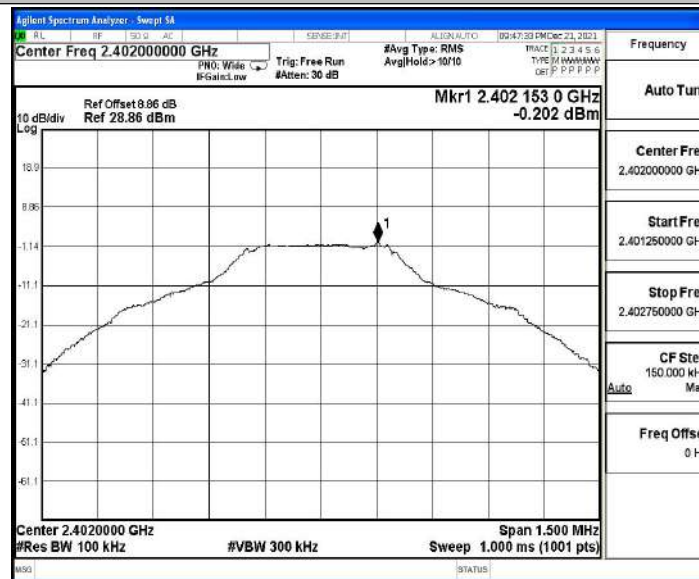
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-60.17	≤-20.2	PASS
			1000~26500	-0.20	-45.8	≤-20.2	PASS
		2441	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-60.31	≤-19.8	PASS
			1000~26500	0.20	-45.96	≤-19.8	PASS
		2480	Reference	0.44	0.44	---	PASS
			30~1000	0.44	-60.29	≤-19.56	PASS
			1000~26500	0.44	-45.3	≤-19.56	PASS
2DH5	Ant1	2402	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-60.35	≤-20.82	PASS
			1000~26500	-0.82	-45.89	≤-20.82	PASS
		2441	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-60.65	≤-20.61	PASS
			1000~26500	-0.61	-45.95	≤-20.61	PASS
		2480	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-60.66	≤-20.71	PASS
			1000~26500	-0.71	-45.83	≤-20.71	PASS
3DH5	Ant1	2402	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-60.51	≤-20.83	PASS
			1000~26500	-0.83	-46.4	≤-20.83	PASS
		2441	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-59.78	≤-20.37	PASS
			1000~26500	-0.37	-45.54	≤-20.37	PASS
		2480	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-60.9	≤-20.61	PASS
			1000~26500	-0.61	-45.87	≤-20.61	PASS

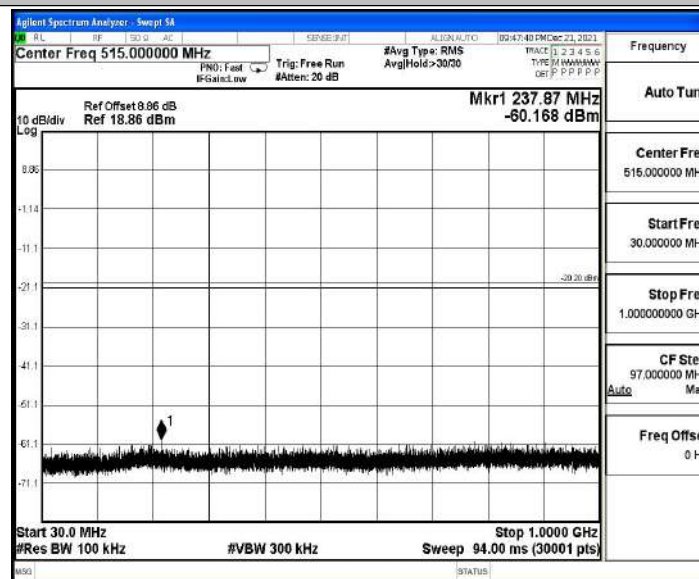


Test Graphs

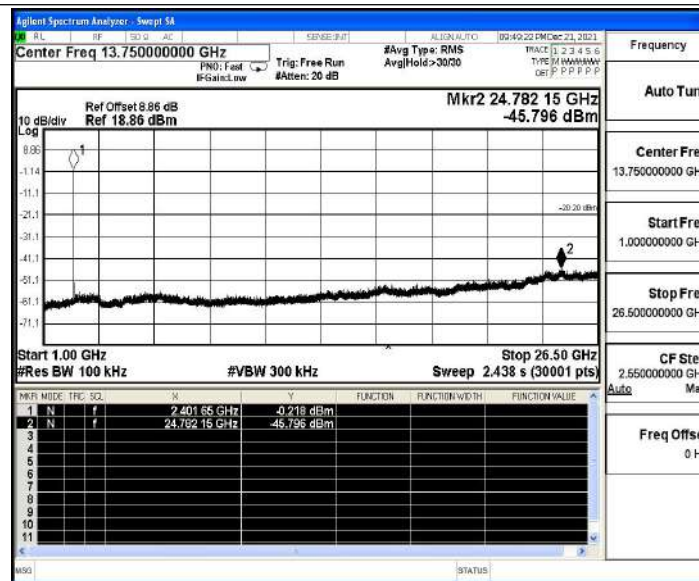
DH5_Ant1_2402_0~Reference



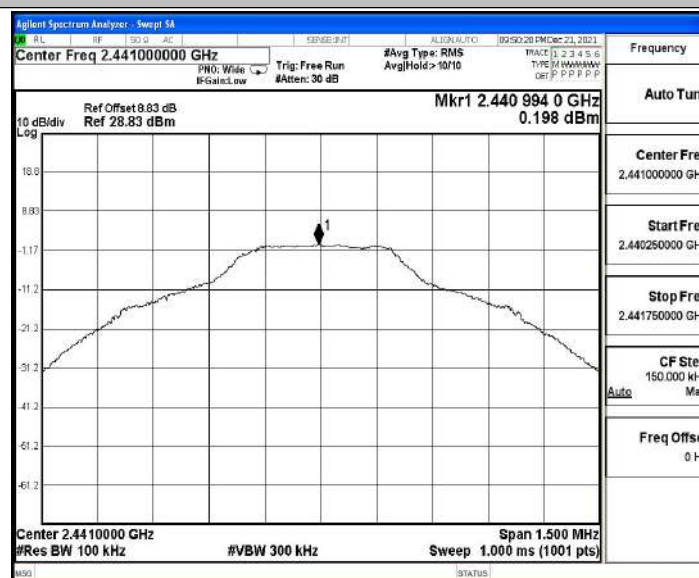
DH5_Ant1_2402_30~1000



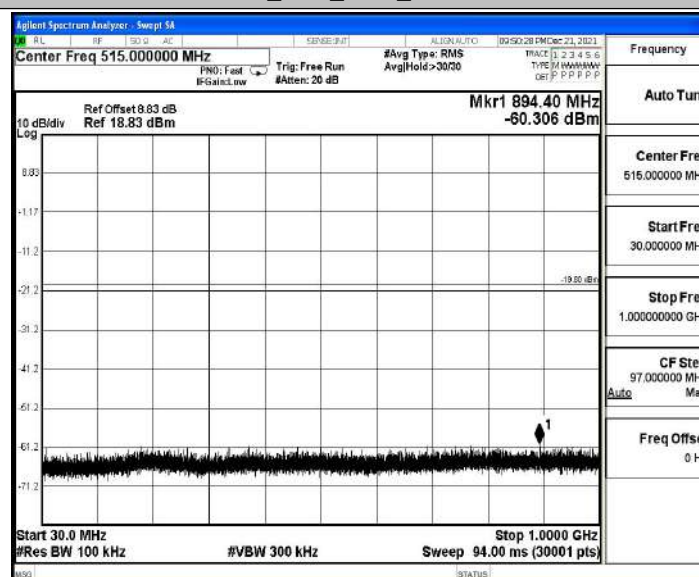
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

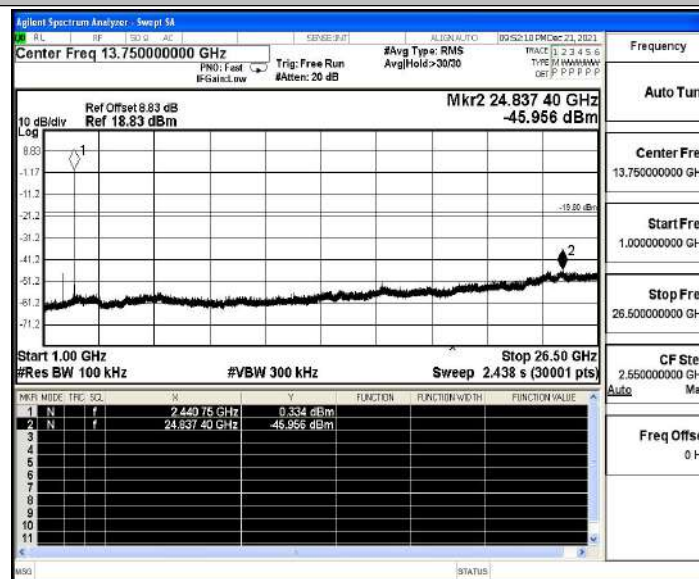


DH5_Ant1_2441_30~1000

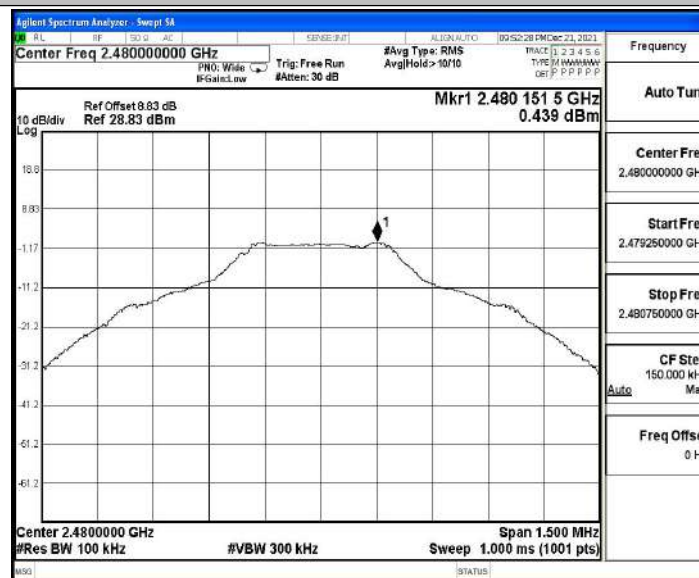




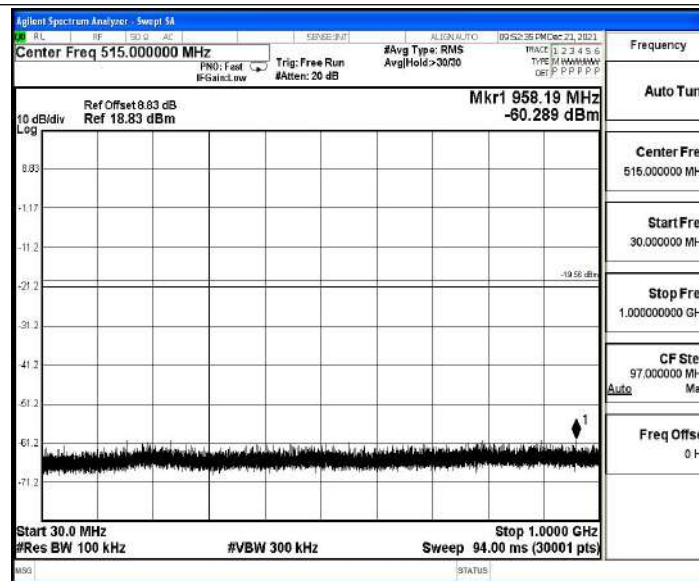
DH5_Ant1_2441_1000~26500



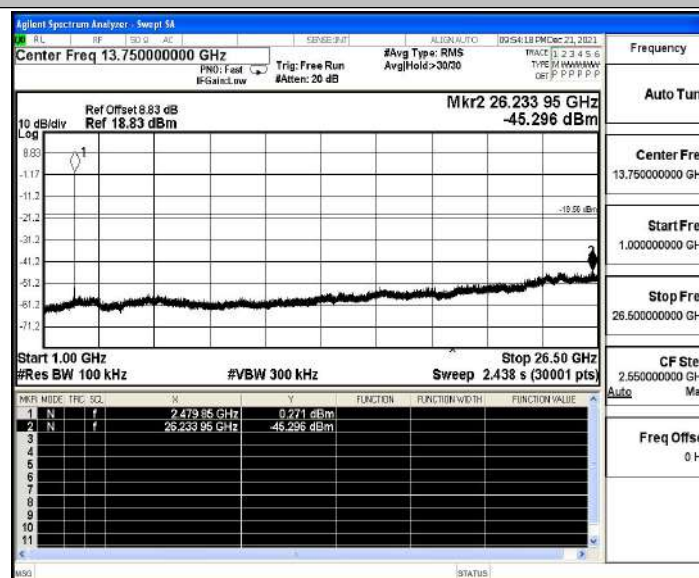
DH5_Ant1_2480_0~Reference



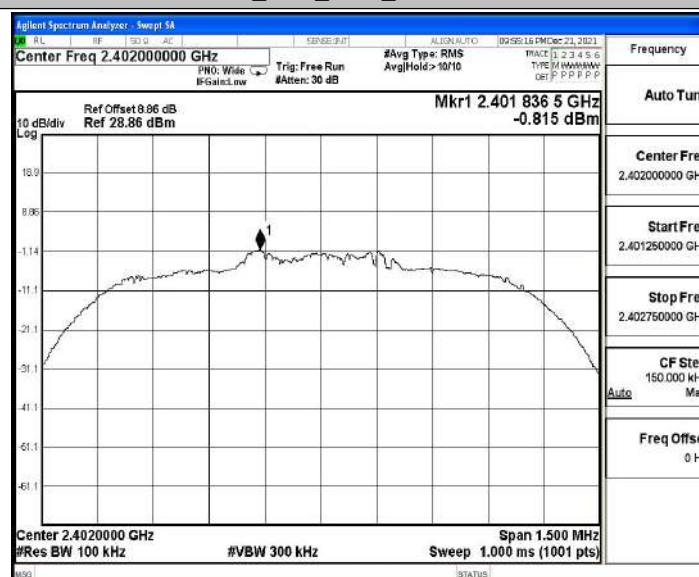
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

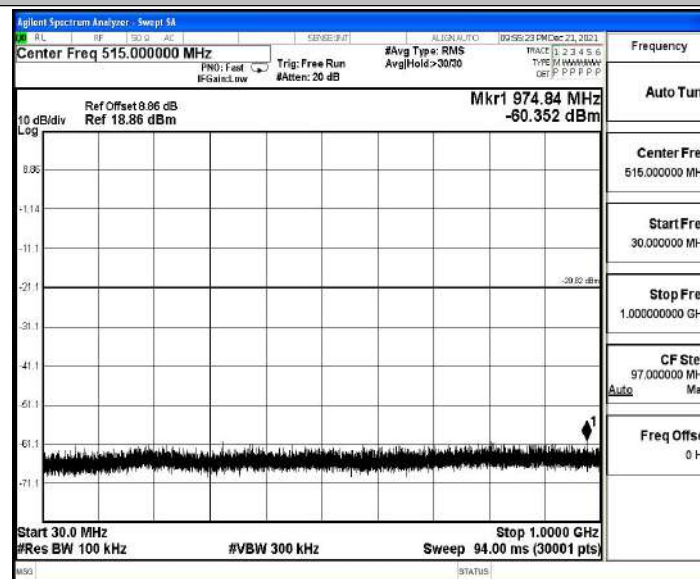


2DH5_Ant1_2402_0~Reference

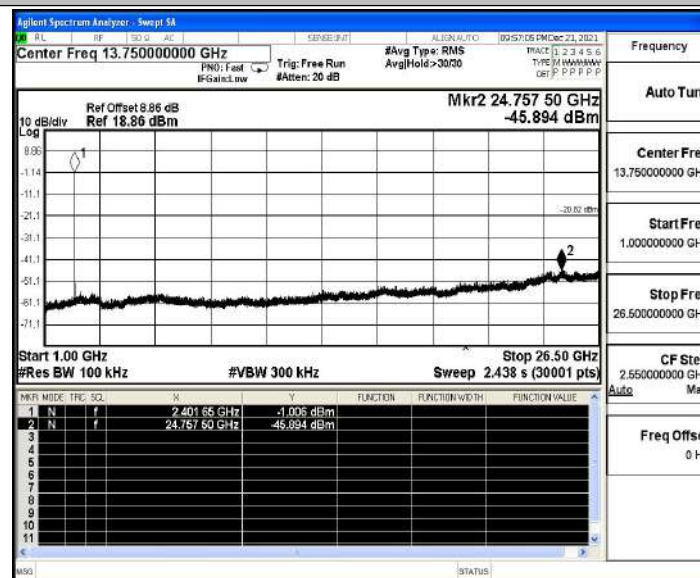




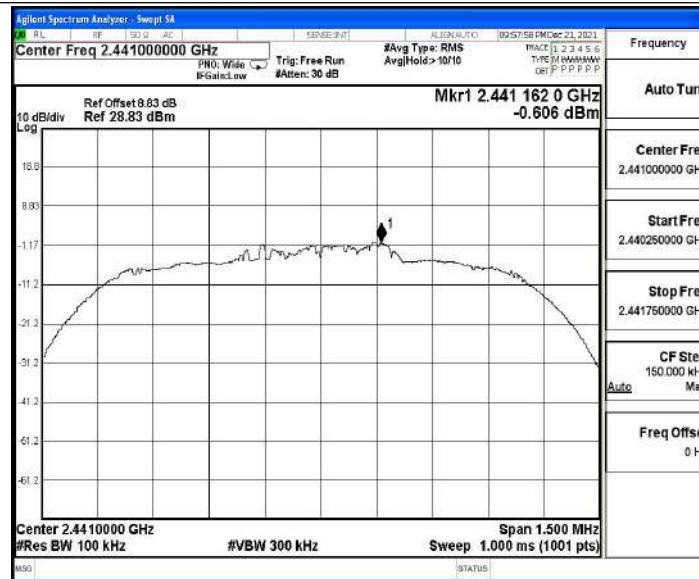
2DH5_Ant1_2402_30~1000



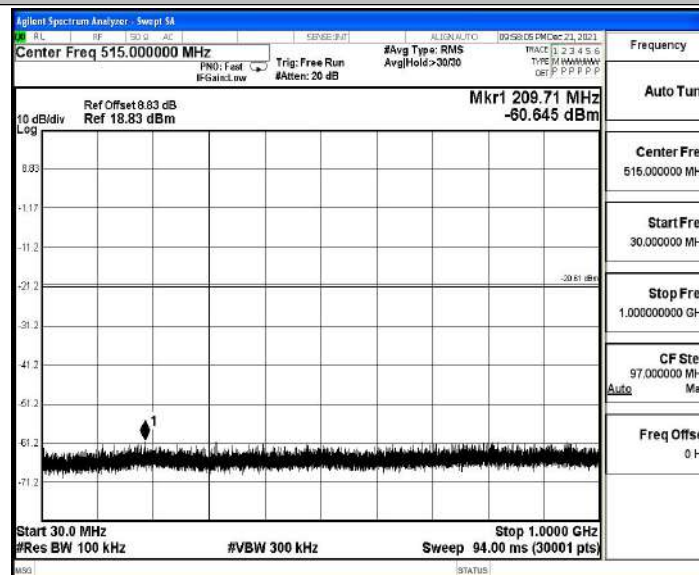
2DH5_Ant1_2402_1000~26500



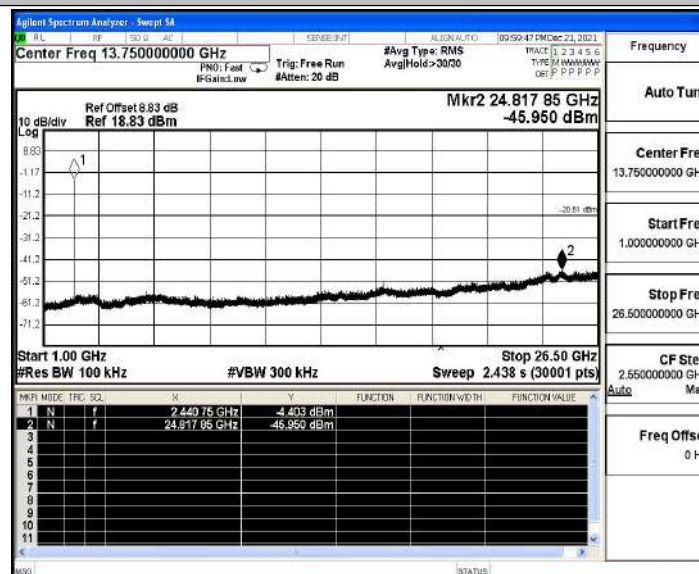
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

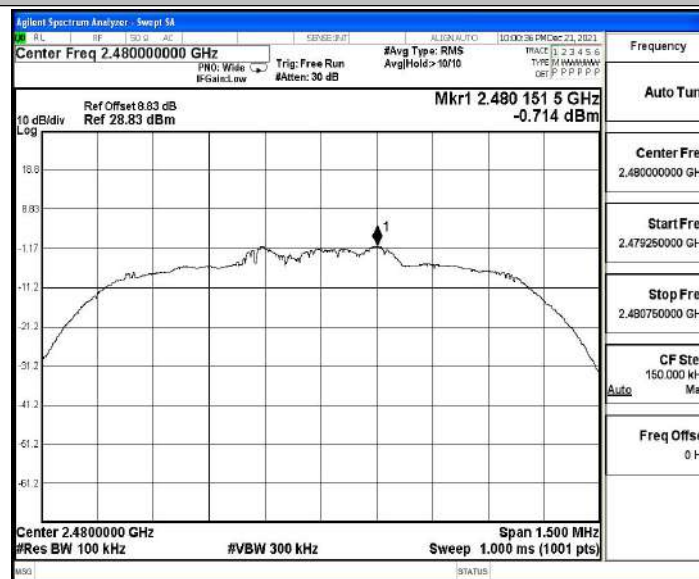


2DH5_Ant1_2441_1000~26500

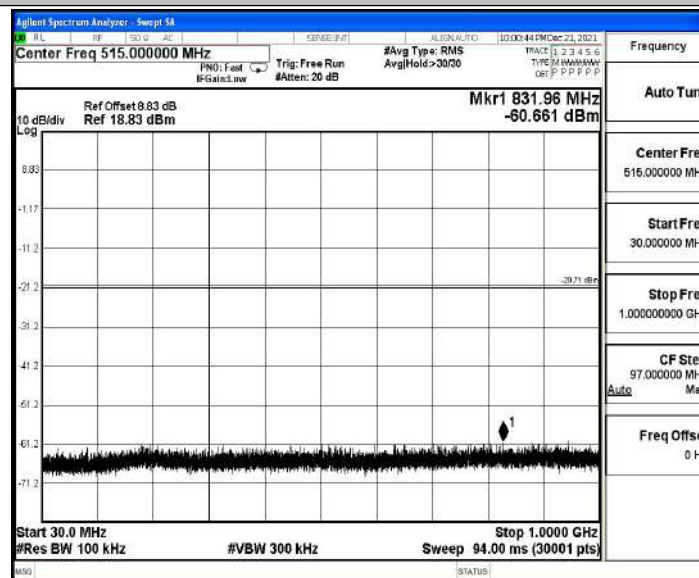




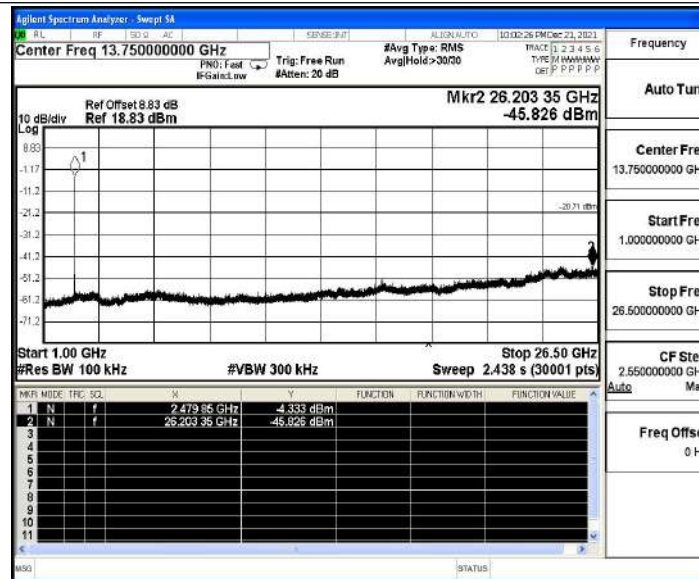
2DH5_Ant1_2480_0~Reference



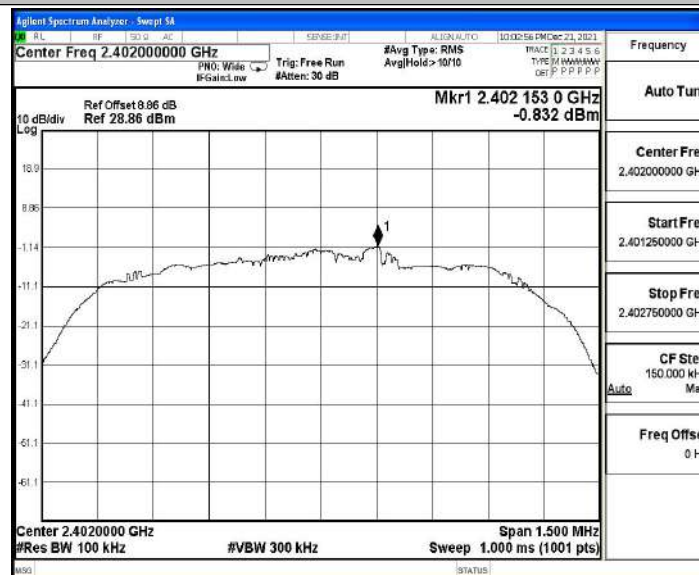
2DH5_Ant1_2480_30~1000



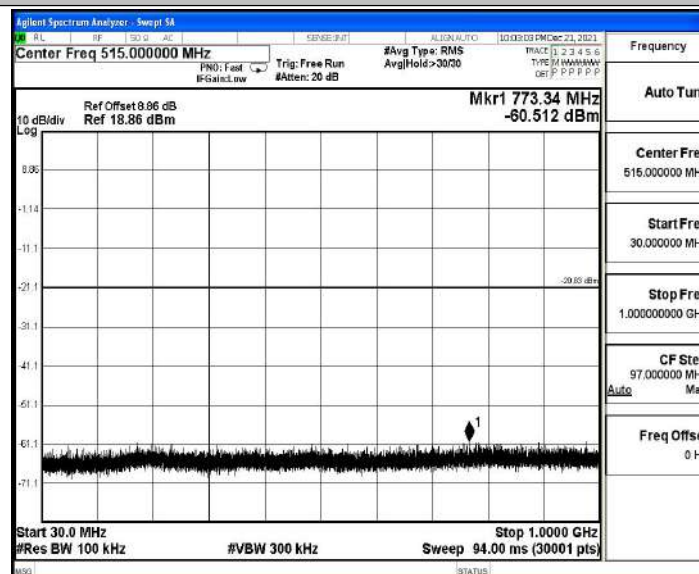
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

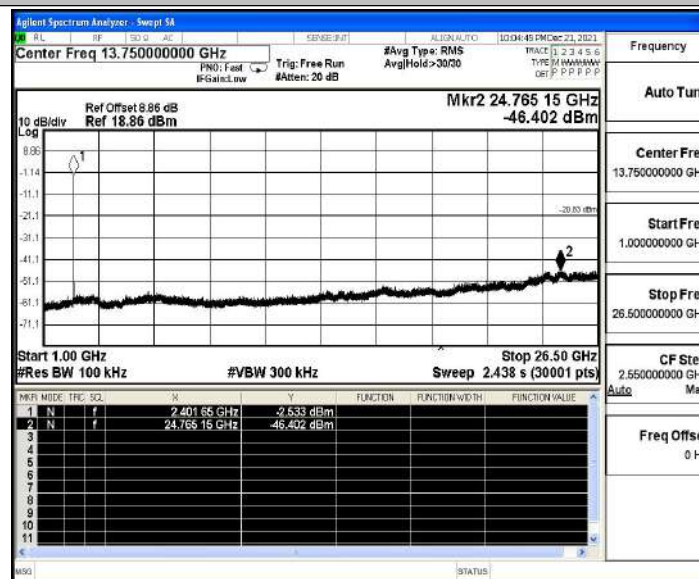


3DH5_Ant1_2402_30~1000

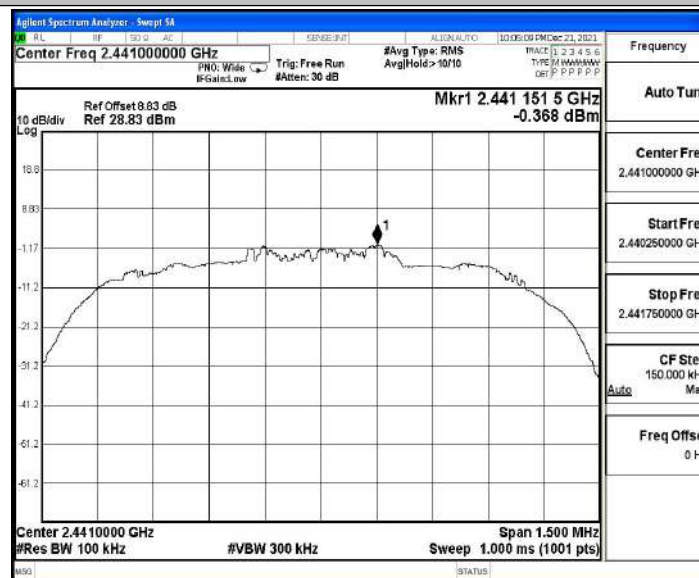




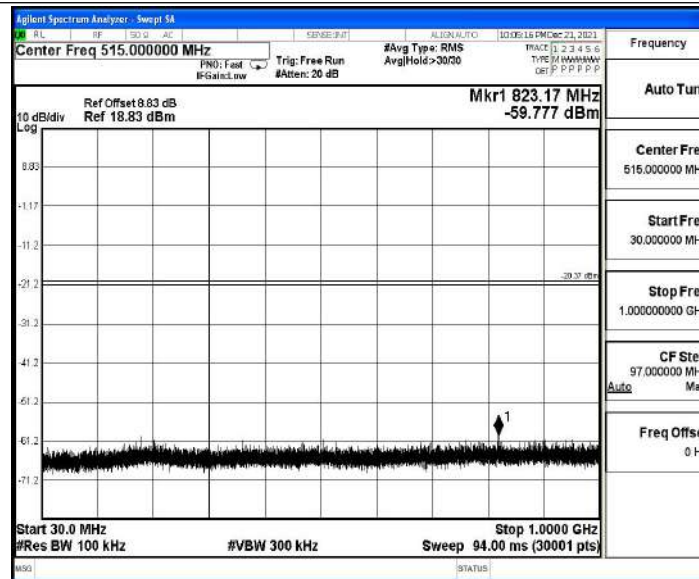
3DH5_Ant1_2402_1000~26500



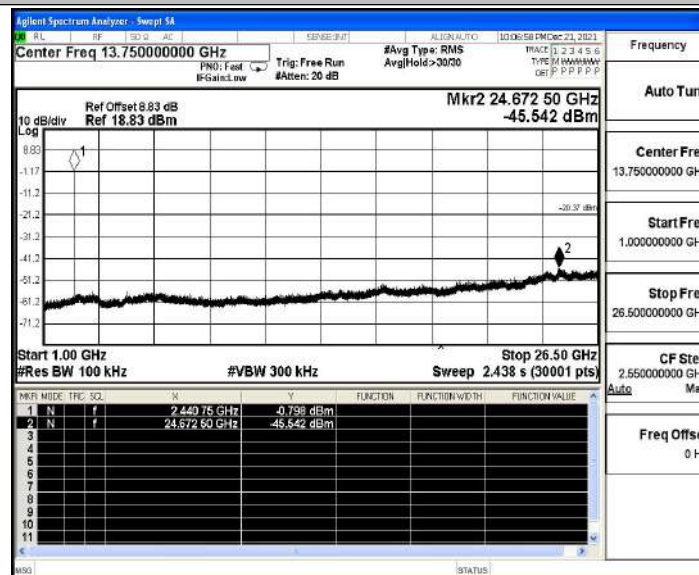
3DH5_Ant1_2441_0~Reference



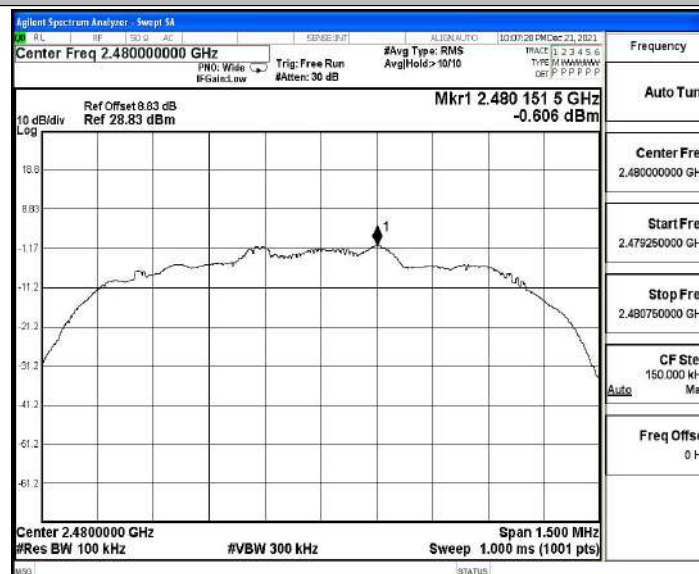
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

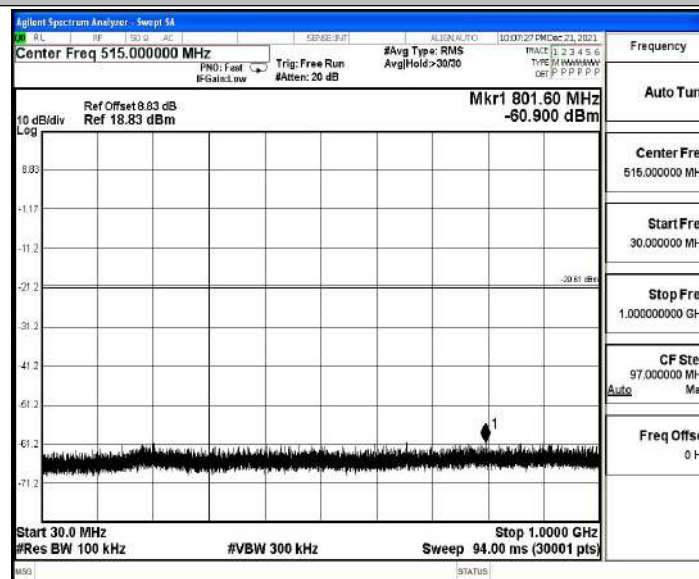


3DH5_Ant1_2480_0~Reference

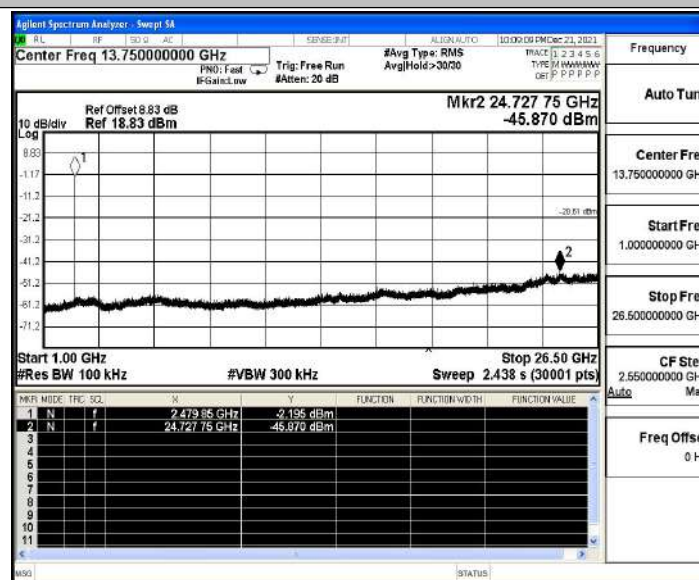




3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500





A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2387.465	-41.89	≤-41.20	53.31	≤54	PASS
				AV	2390.000	-48.1	≤-41.20	47.10	≤54	PASS
				Peak	2310.000	-44.1	≤-21.20	51.10	≤74	PASS
				Peak	2387.465	-22.43	≤-21.20	72.77	≤74	PASS
				Peak	2390.000	-41.2	≤-21.20	54.00	≤74	PASS
		High	2480	AV	2483.500	-47.5	≤-41.20	47.70	≤54	PASS
				AV	2483.520	-47.5	≤-41.20	47.70	≤54	PASS
				AV	2500.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2483.500	-42.47	≤-21.20	52.73	≤74	PASS
				Peak	2497.760	-38.94	≤-21.20	56.26	≤74	PASS
				Peak	2500.000	-42.48	≤-21.20	52.72	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.69	≤-41.20	46.51	≤54	PASS
				AV	2387.885	-47.27	≤-41.20	47.93	≤54	PASS
				AV	2390.000	-48.36	≤-41.20	46.84	≤54	PASS
				Peak	2310.000	-43.32	≤-21.20	51.88	≤74	PASS
				Peak	2320.055	-38.79	≤-21.20	56.41	≤74	PASS
				Peak	2390.000	-43.65	≤-21.20	51.55	≤74	PASS
		High	2480	AV	2483.500	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2483.520	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2500.000	-47.73	≤-41.20	47.47	≤54	PASS
				Peak	2483.500	-40.95	≤-21.20	54.25	≤74	PASS
				Peak	2484.960	-36.15	≤-21.20	59.05	≤74	PASS
				Peak	2500.000	-42.93	≤-21.20	52.27	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2387.675	-46.67	≤-41.20	48.53	≤54	PASS
				AV	2390.000	-48.34	≤-41.20	46.86	≤54	PASS
				Peak	2310.000	-41.37	≤-21.20	53.83	≤74	PASS
				Peak	2360.585	-39.27	≤-21.20	55.93	≤74	PASS
				Peak	2390.000	-40.32	≤-21.20	54.88	≤74	PASS
		High	2480	AV	2483.500	-46.55	≤-41.20	48.65	≤54	PASS
				AV	2483.520	-46.55	≤-41.20	48.65	≤54	PASS
				AV	2500.000	-47.68	≤-41.20	47.52	≤54	PASS
				Peak	2483.500	-41.29	≤-21.20	53.91	≤74	PASS
				Peak	2498.880	-38.11	≤-21.20	57.09	≤74	PASS
				Peak	2500.000	-38.19	≤-21.20	57.01	≤74	PASS



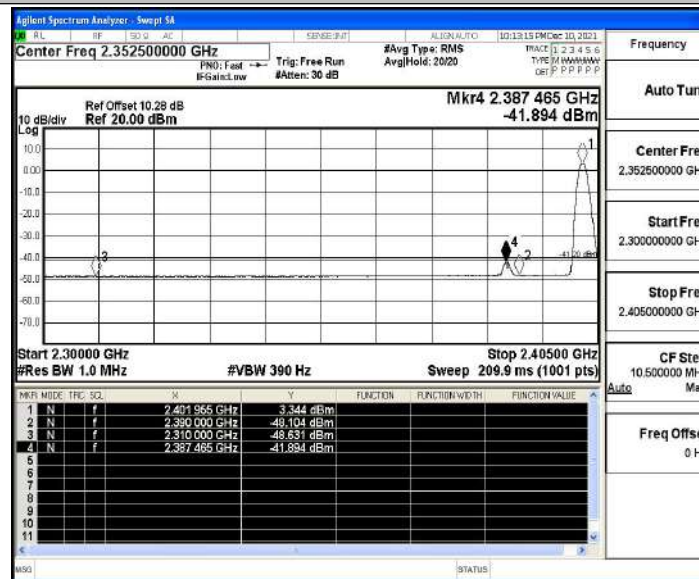
Note:

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.

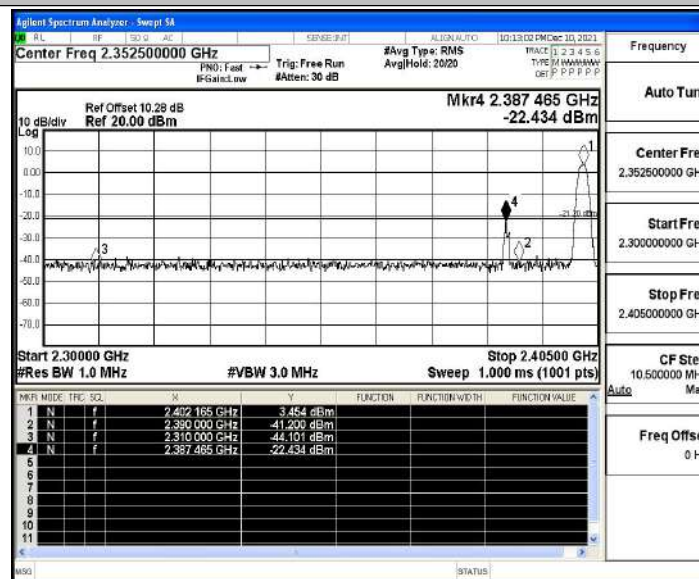


Test Graphs

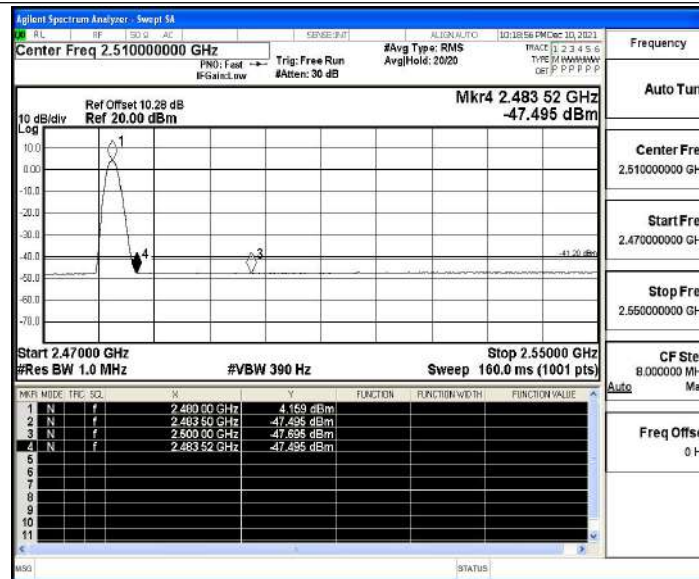
DH5_Ant1_Low_2402_AV



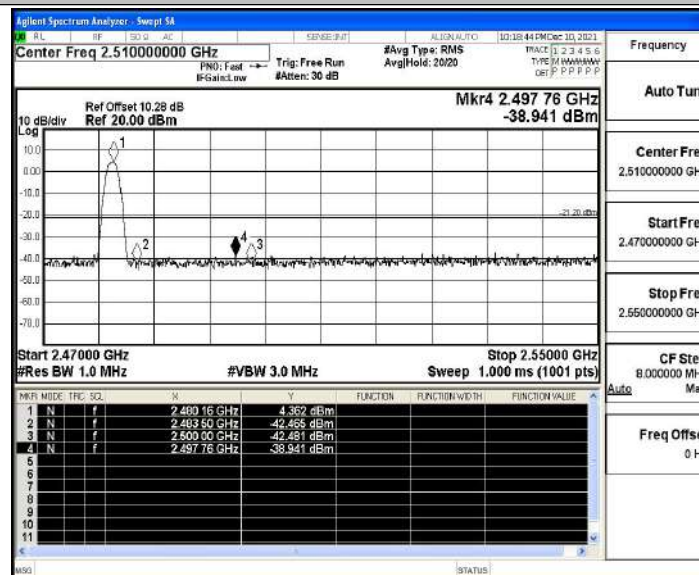
DH5_Ant1_Low_2402_Peak



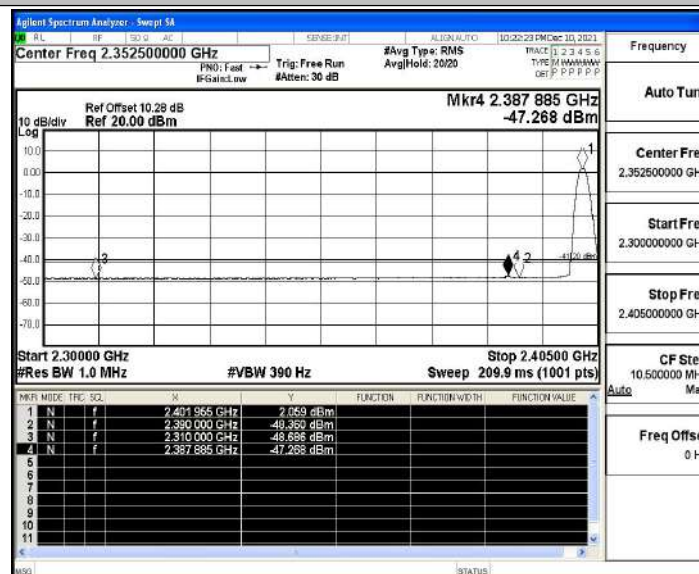
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

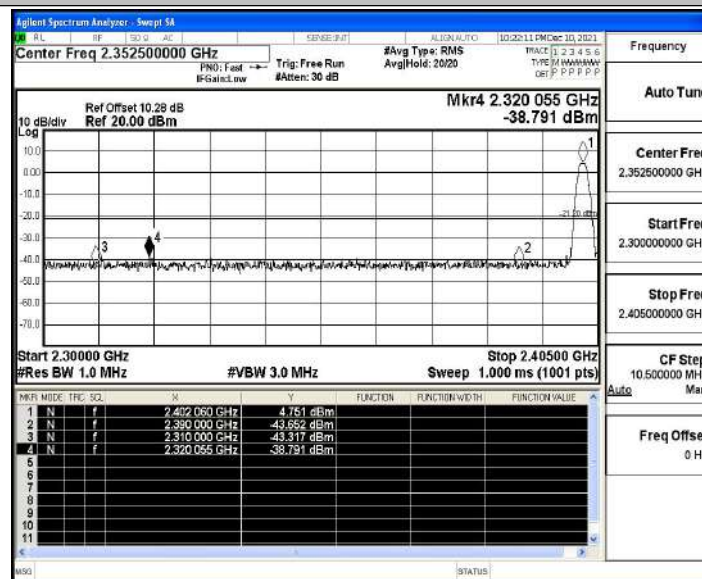


2DH5_Ant1_Low_2402_AV

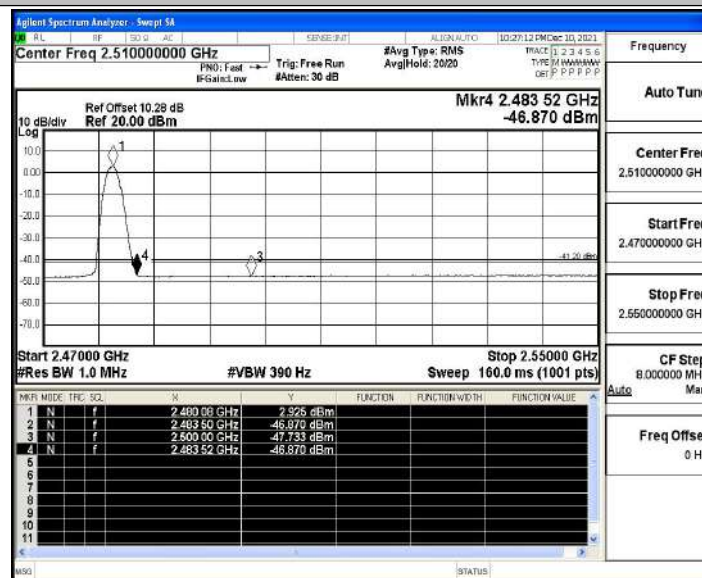




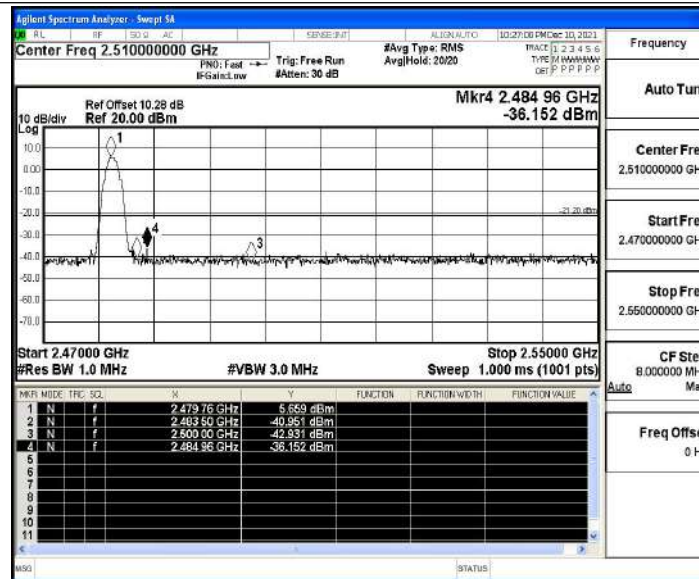
2DH5_Ant1_Low_2402_Peak



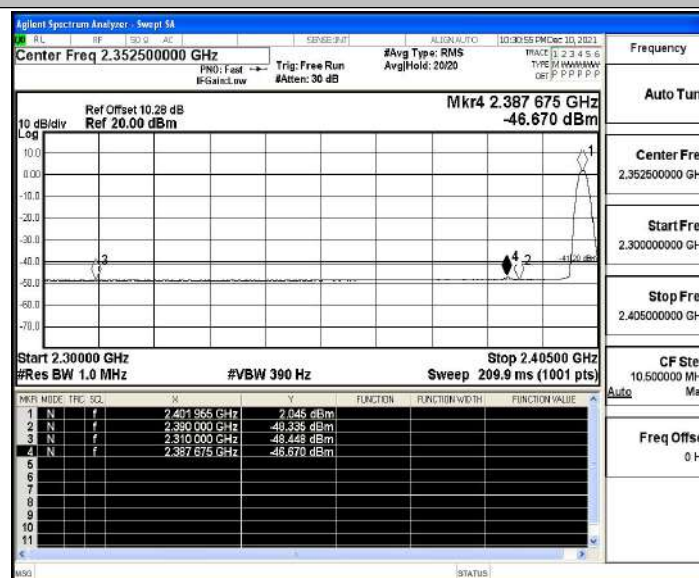
2DH5_Ant1_High_2480_AV



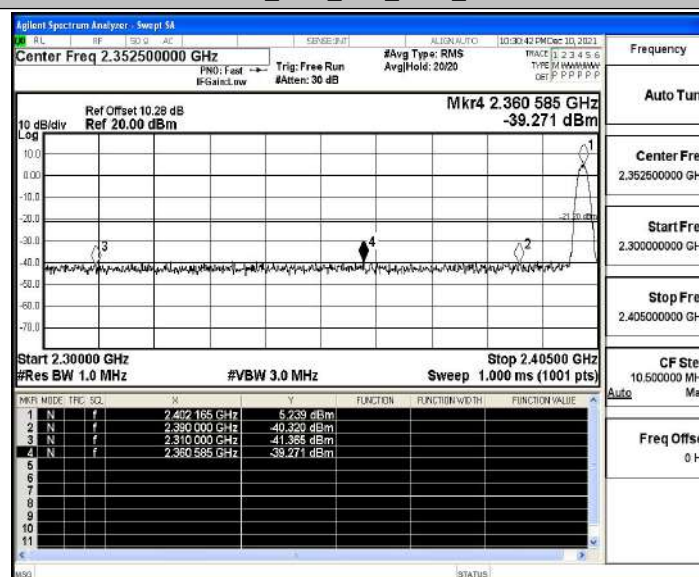
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

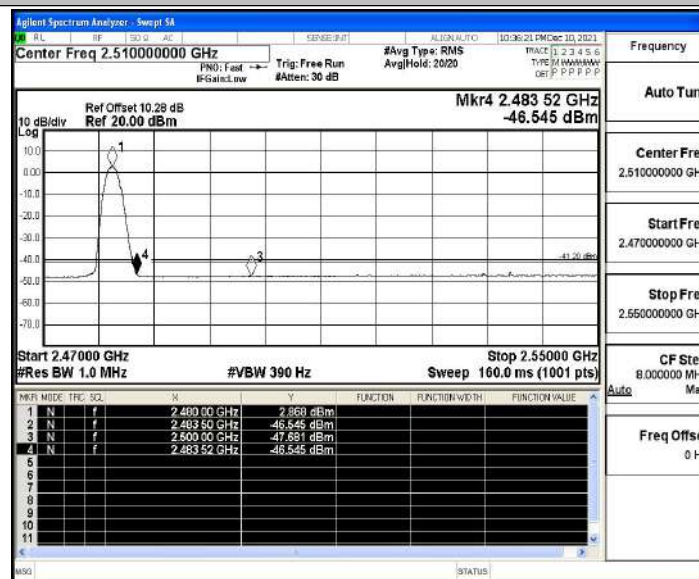


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

