



Appendix A

RF Test Data for BT V5.1(DSS) (Conducted Measurement)

Product Name: EarphoneBluetooth

Trade Mark: GENAI

Test Model: BluePods 3

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan



A.1 20dB Emission Bandwidth

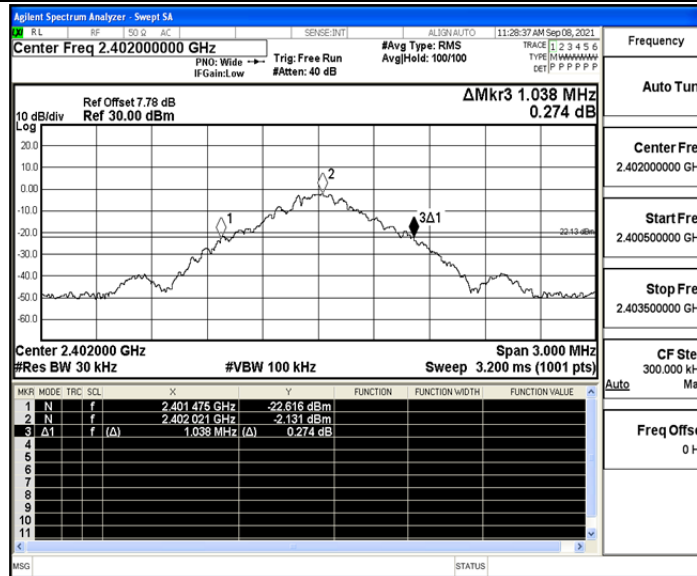
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.038	2401.475	2402.513	---	PASS
		2441	1.032	2440.469	2441.501	---	PASS
		2480	1.032	2479.469	2480.501	---	PASS
2DH5	Ant1	2402	1.320	2401.340	2402.660	---	PASS
		2441	1.296	2440.361	2441.657	---	PASS
		2480	1.284	2479.361	2480.645	---	PASS

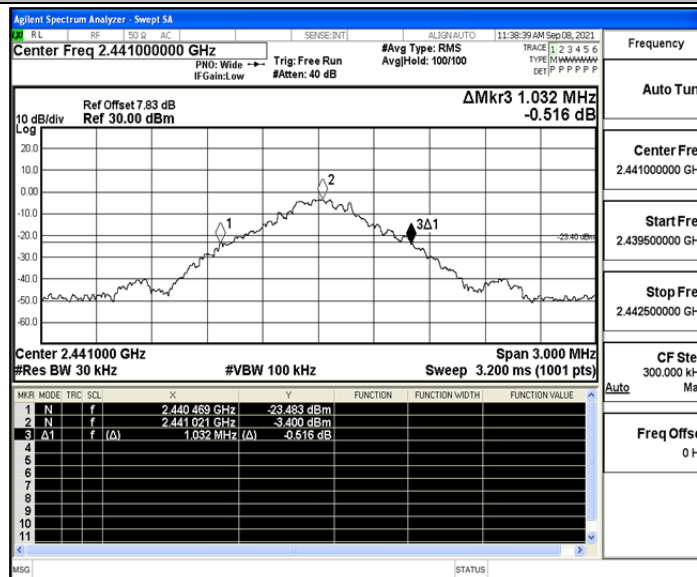


Test Graphs

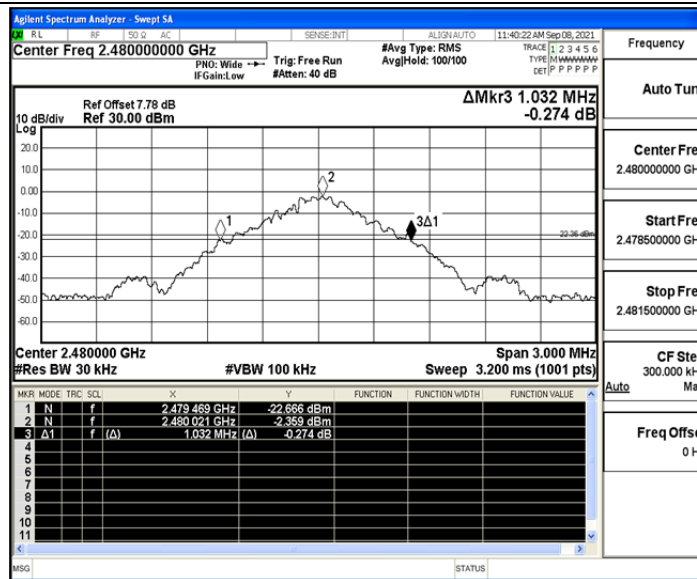
DH5_Ant1_2402



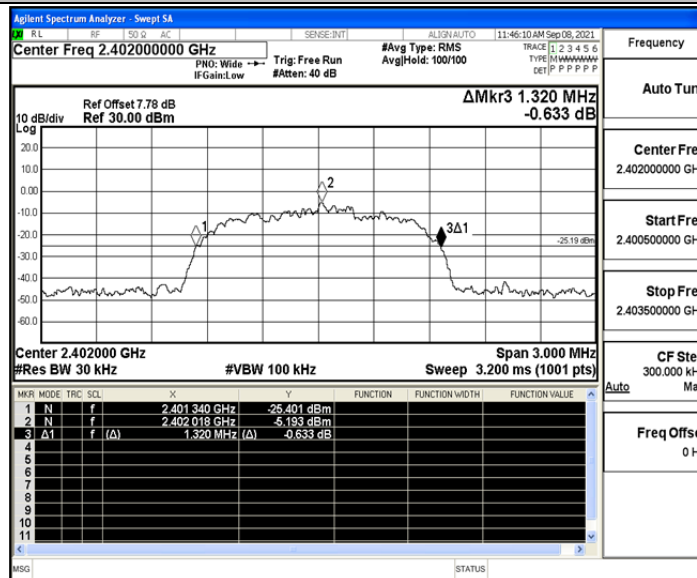
DH5_Ant1_2441



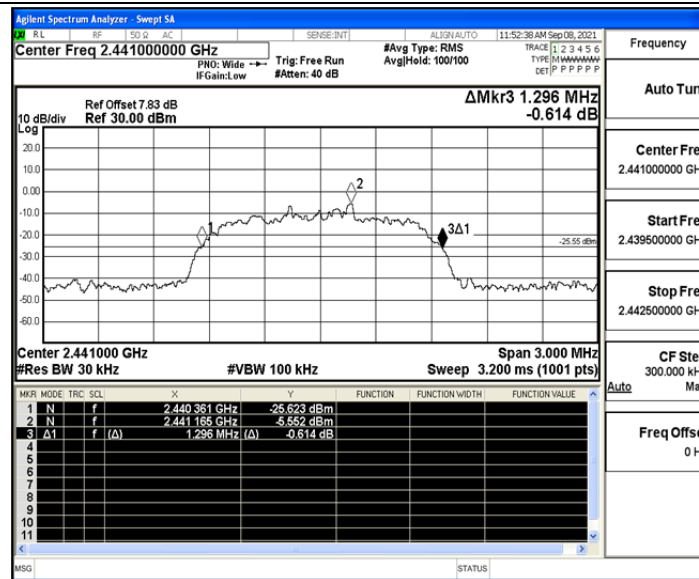
DH5_Ant1_2480



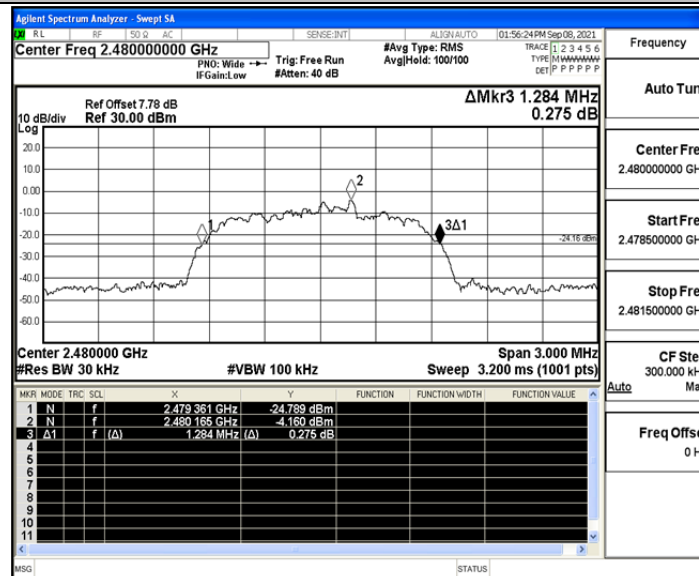
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480





A.2 Maximum peak conducted output power

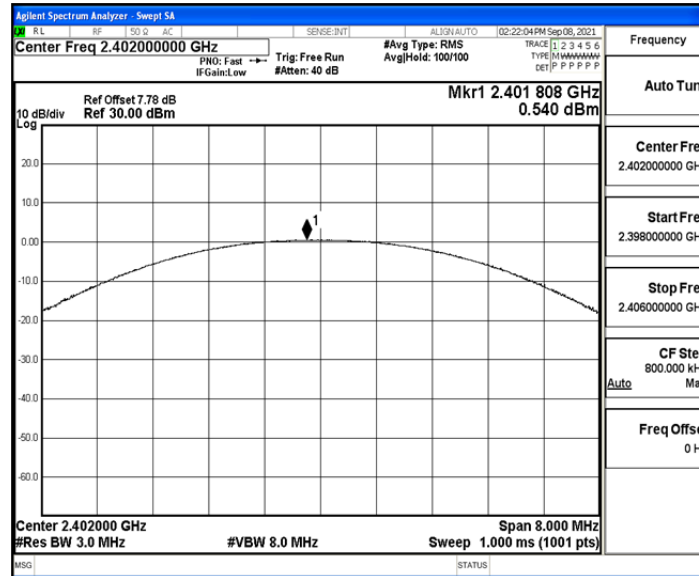
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.54	≤ 20.97	PASS
		2441	-0.74	≤ 20.97	PASS
		2480	0.3	≤ 20.97	PASS
2DH5	Ant1	2402	-0.42	≤ 20.97	PASS
		2441	-1.52	≤ 20.97	PASS
		2480	-0.59	≤ 20.97	PASS

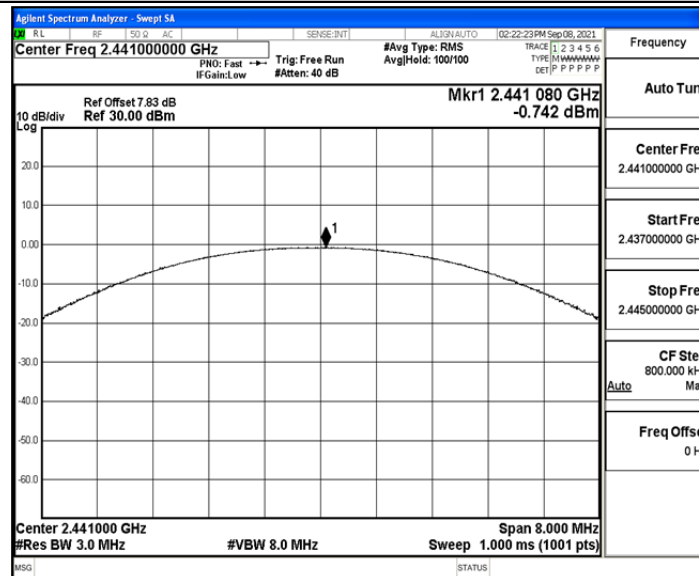


Test Graphs

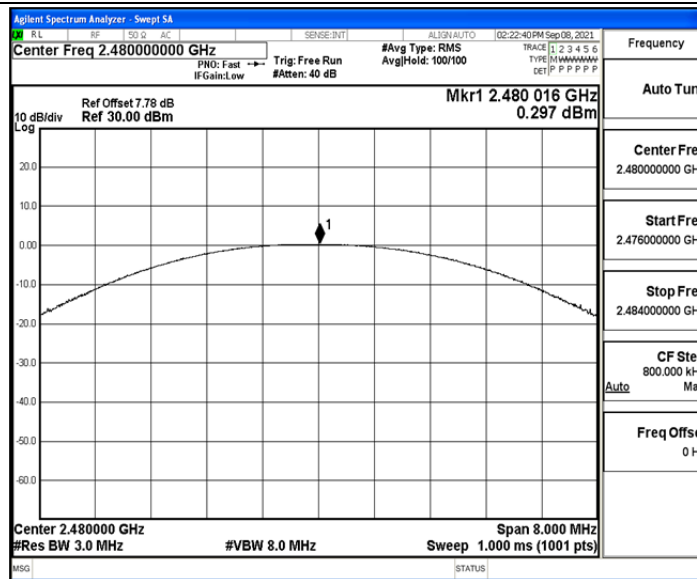
DH5_Ant1_2402



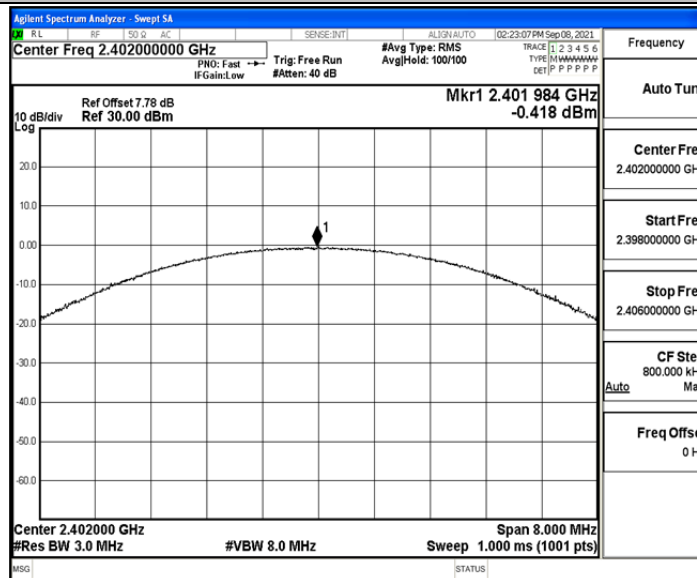
DH5_Ant1_2441



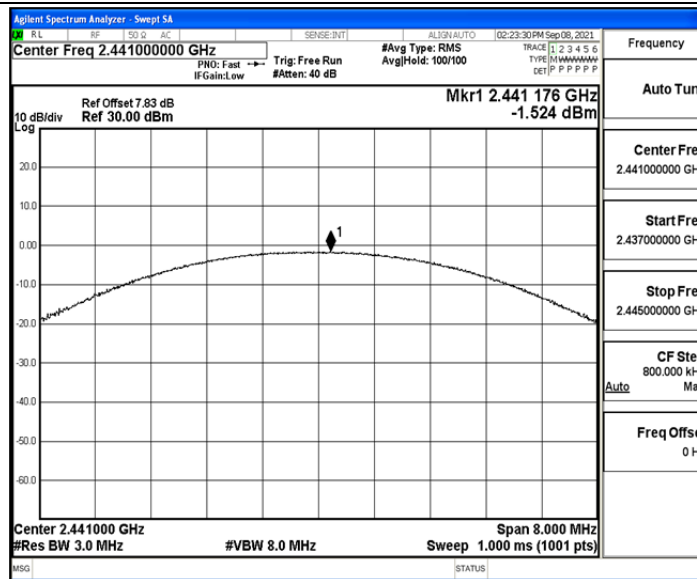
DH5_Ant1_2480



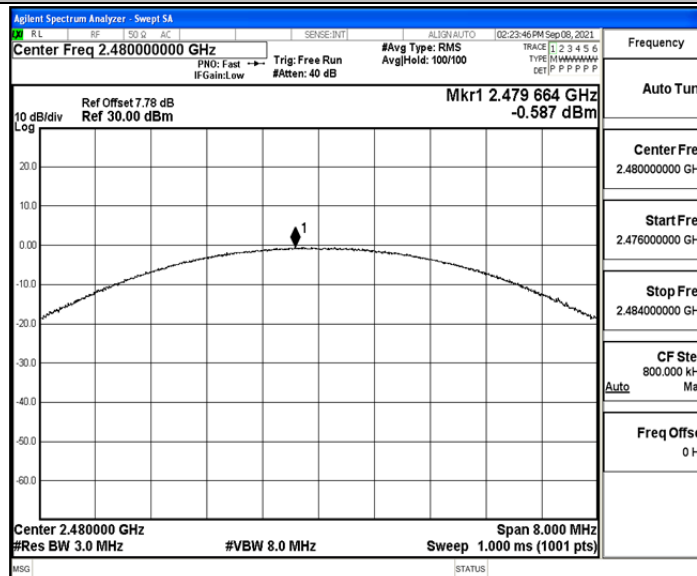
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480





A.3 Carrier frequency separation

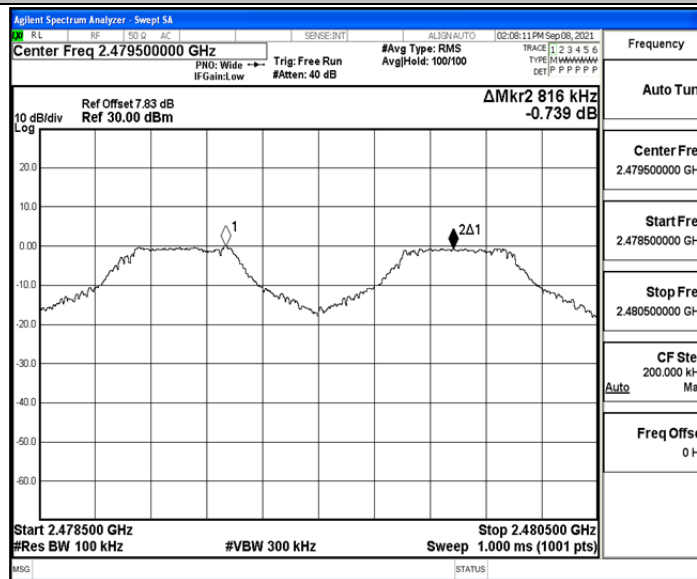
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.816	≥ 0.692	PASS
2DH5	Ant1	Hop	0.996	≥ 0.880	PASS

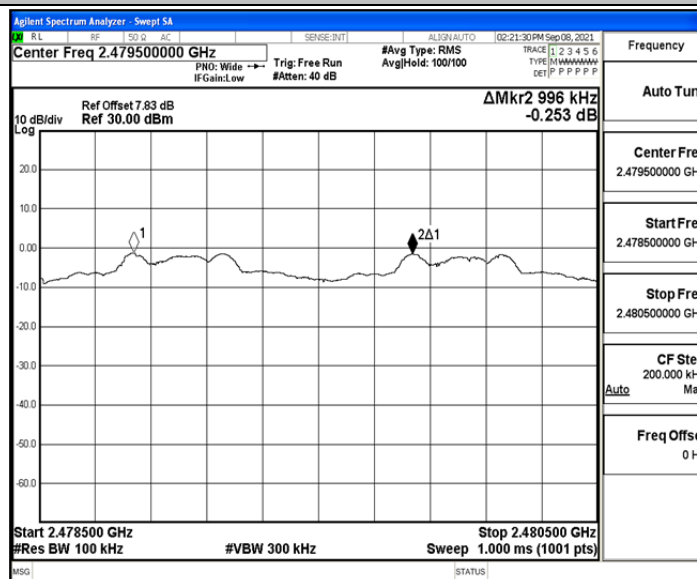


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.4 Time of occupancy

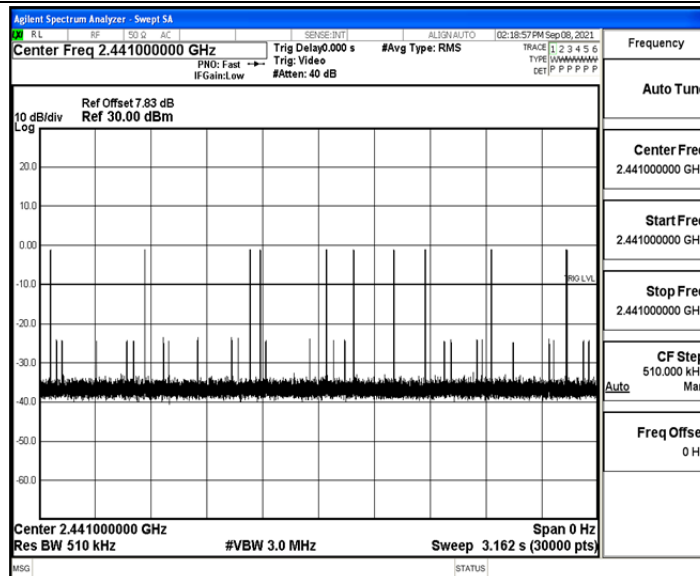
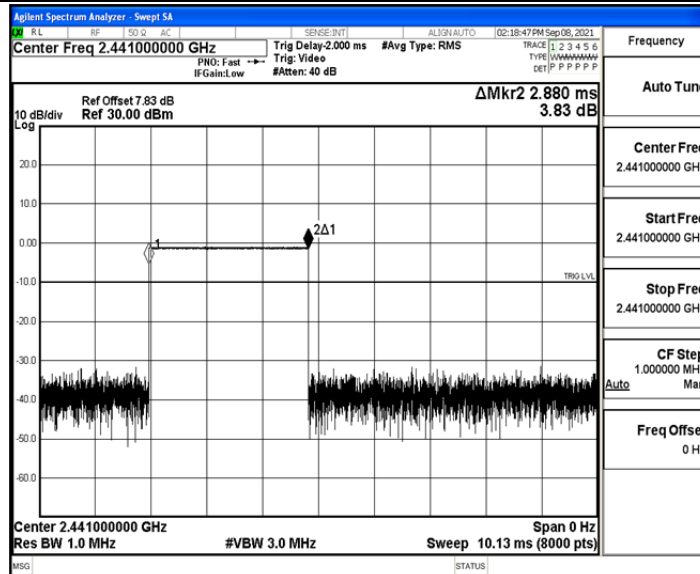
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
2DH5	Ant1	Hop	2.88	70	0.202	≤0.4	PASS

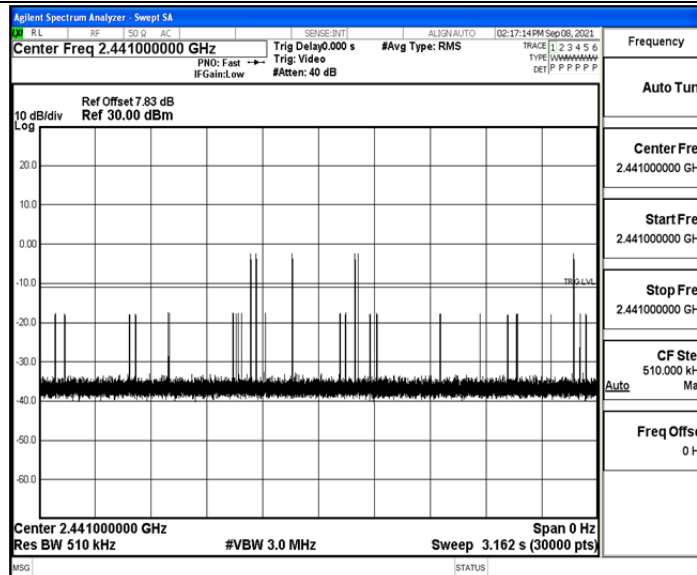
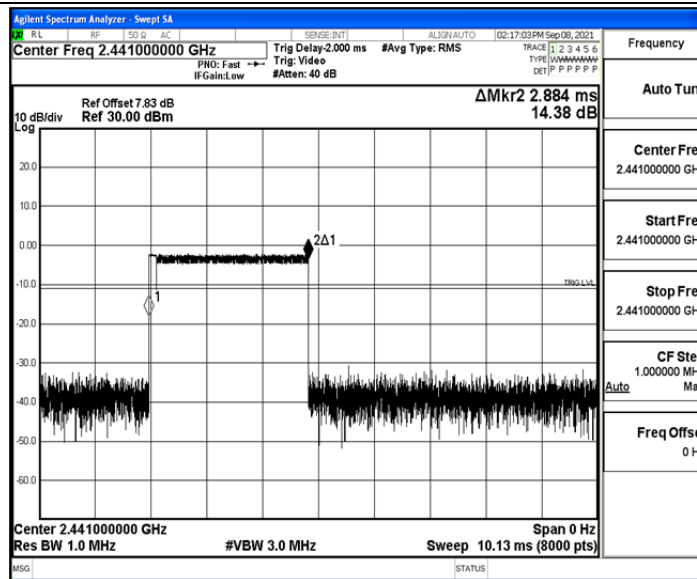


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.5 Number of hopping channels

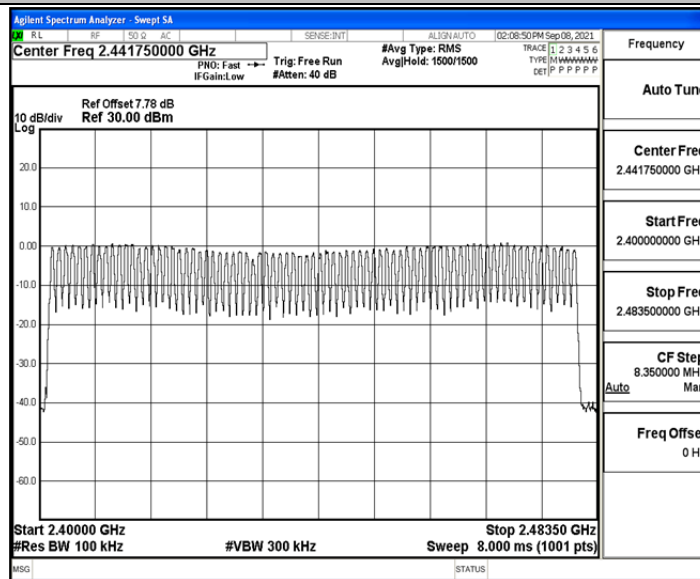
Test Result

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

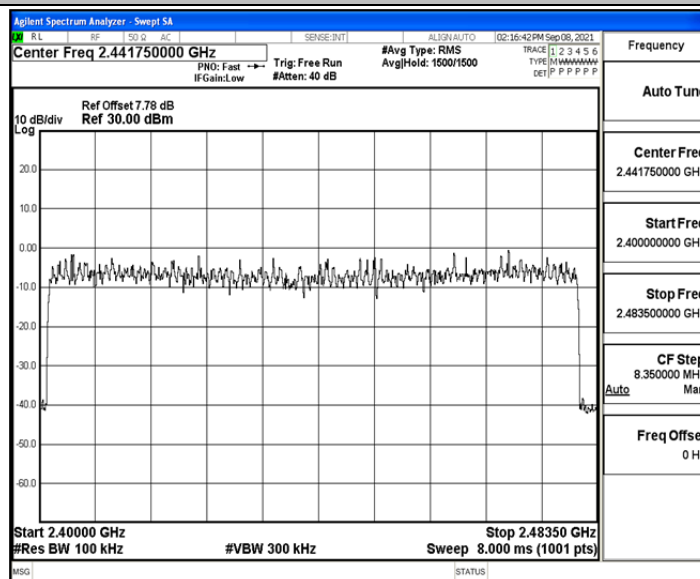


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.6 Band edge measurements

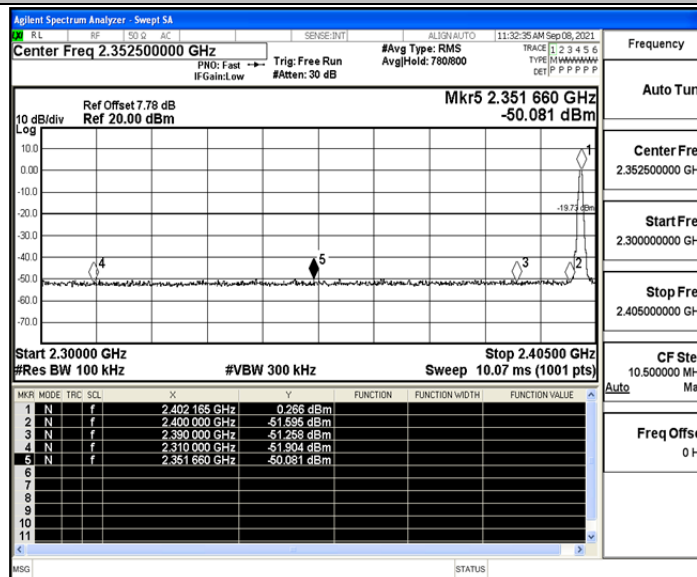
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.27	-50.08	≤ -19.73	PASS
		High	2480	0.18	-49	≤ -19.82	PASS
		Low	Hop_2402	0.21	-49.93	≤ -19.79	PASS
		High	Hop_2480	0.63	-48.86	≤ -19.37	PASS
2DH5	Ant1	Low	2402	-2.00	-49.53	≤ -22	PASS
		High	2480	0.85	-48	≤ -19.15	PASS
		Low	Hop_2402	-5.13	-49.89	≤ -25.13	PASS
		High	Hop_2480	-1.25	-48.27	≤ -21.25	PASS

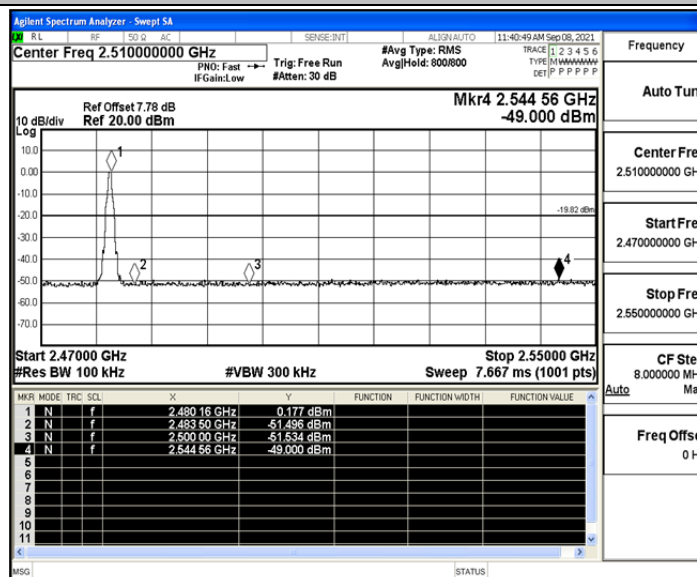


Test Graphs

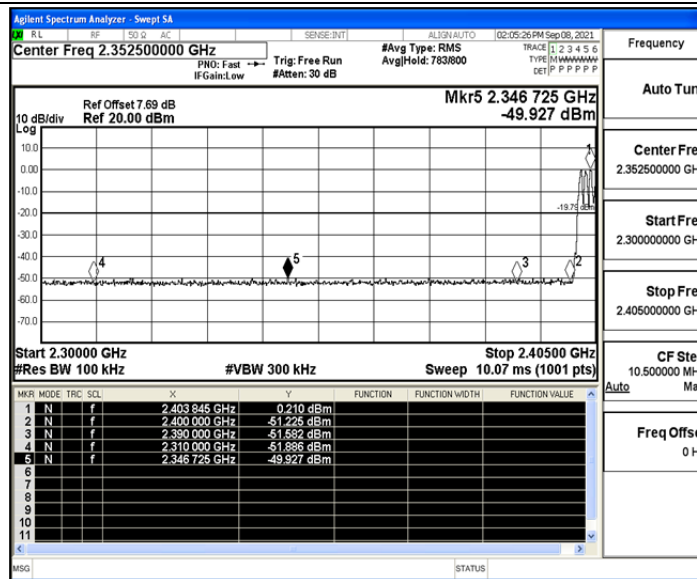
DH5_Ant1_Low_2402



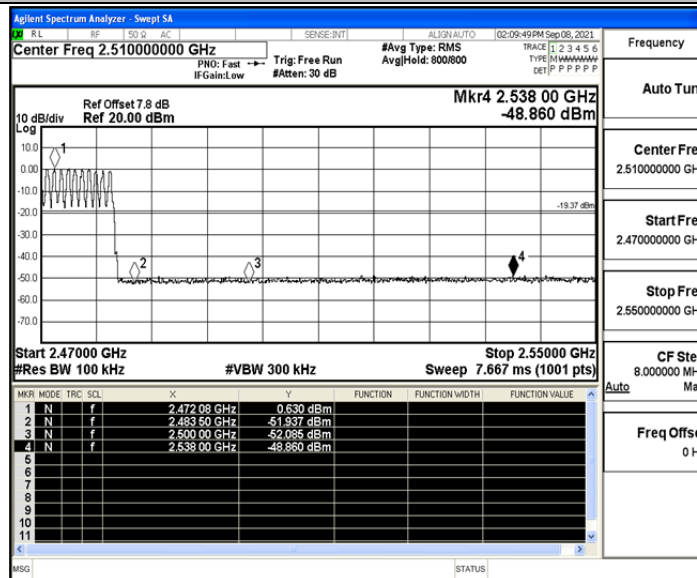
DH5_Ant1_High_2480



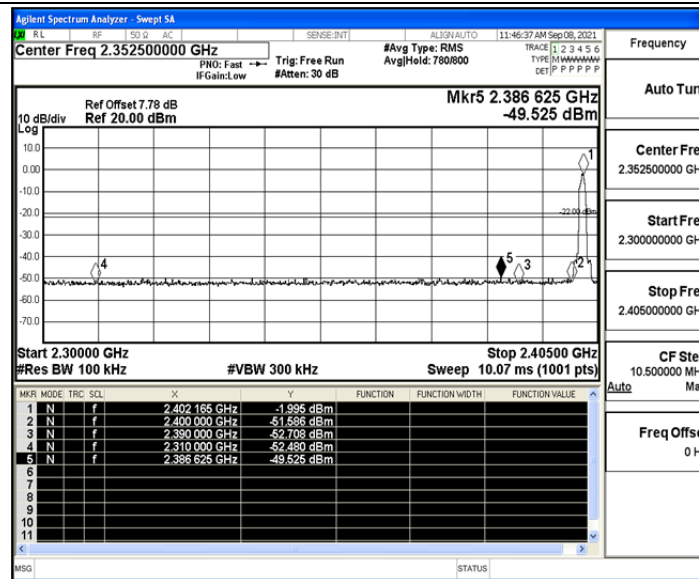
DH5_Ant1_Low_Hop_2402



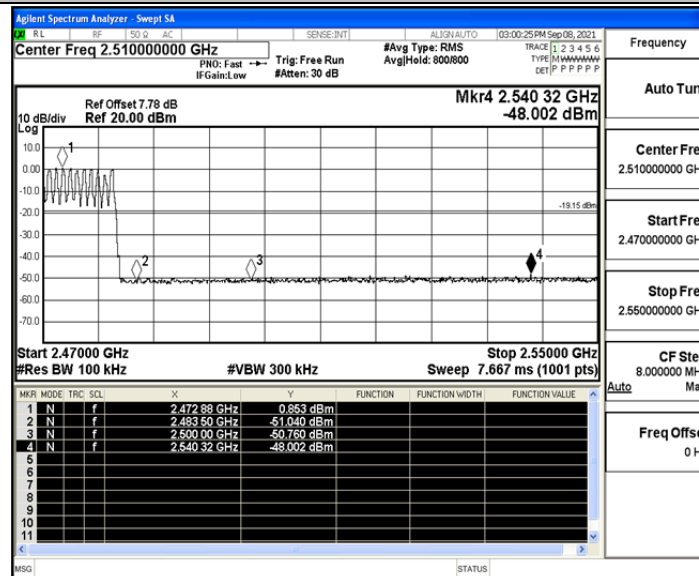
DH5_Ant1_High_Hop_2480



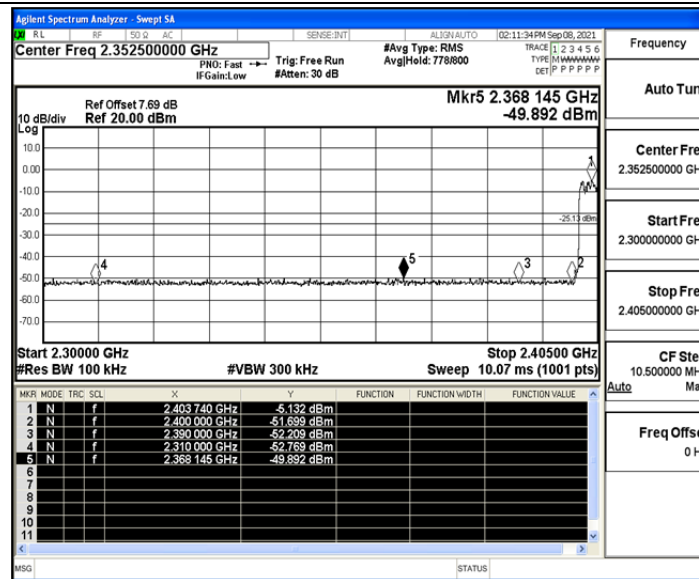
2DH5_Ant1_Low_2402



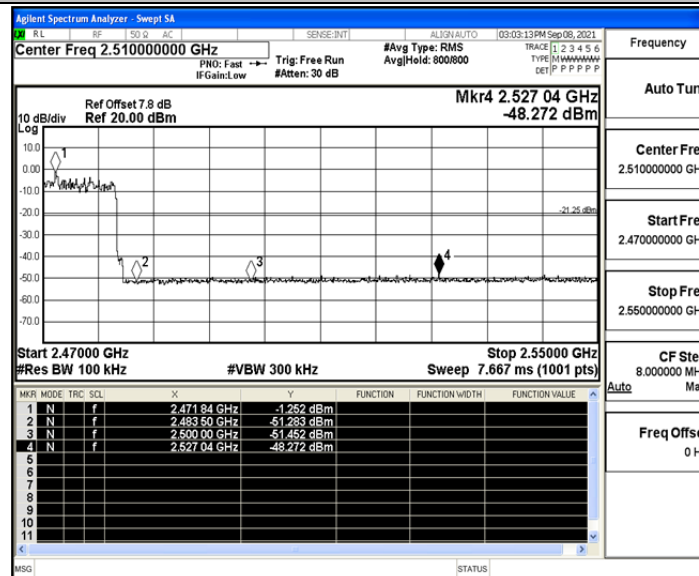
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480





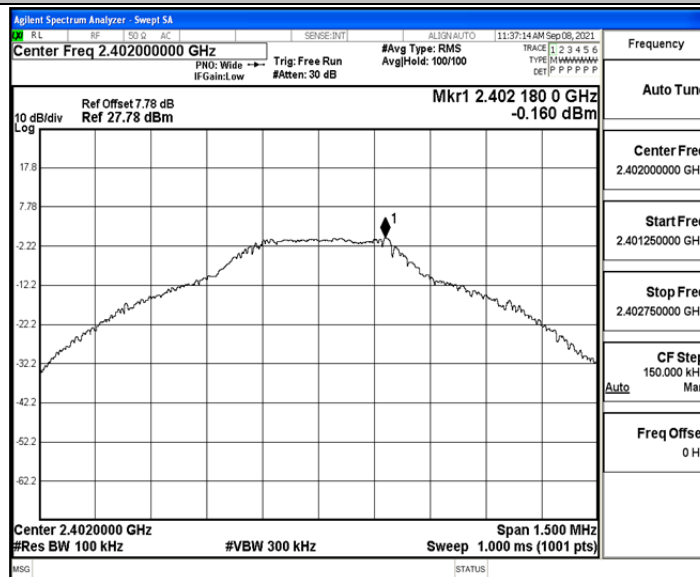
A.7 Conducted Spurious Emission

Test Result

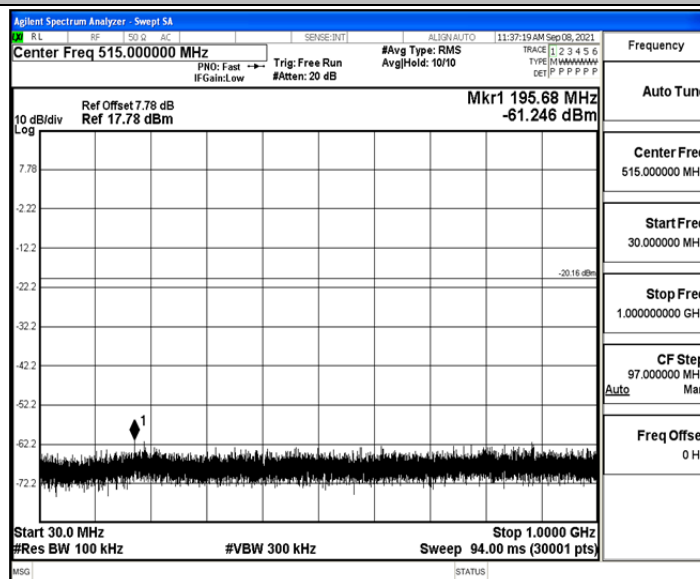
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-61.25	≤ -20.16	PASS
			1000~26500	-0.16	-47.34	≤ -20.16	PASS
		2441	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-61.25	≤ -21.6	PASS
			1000~26500	-1.60	-47.81	≤ -21.6	PASS
		2480	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-61.28	≤ -19.93	PASS
			1000~26500	0.07	-47.75	≤ -19.93	PASS
2DH5	Ant1	2402	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-60.84	≤ -21.69	PASS
			1000~26500	-1.69	-46.67	≤ -21.69	PASS
		2441	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-60.82	≤ -23.18	PASS
			1000~26500	-3.18	-47.95	≤ -23.18	PASS
		2480	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-61.6	≤ -24.98	PASS
			1000~26500	-4.98	-47.32	≤ -24.98	PASS

Test Graphs

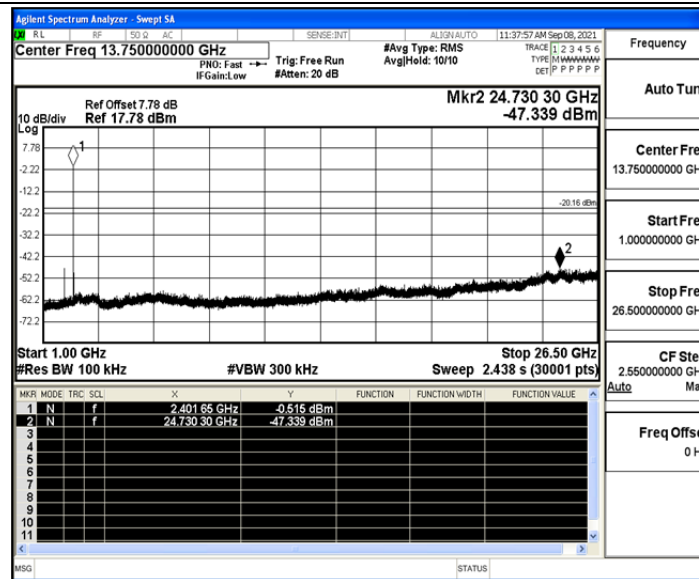
DH5_Ant1_2402_0~Reference



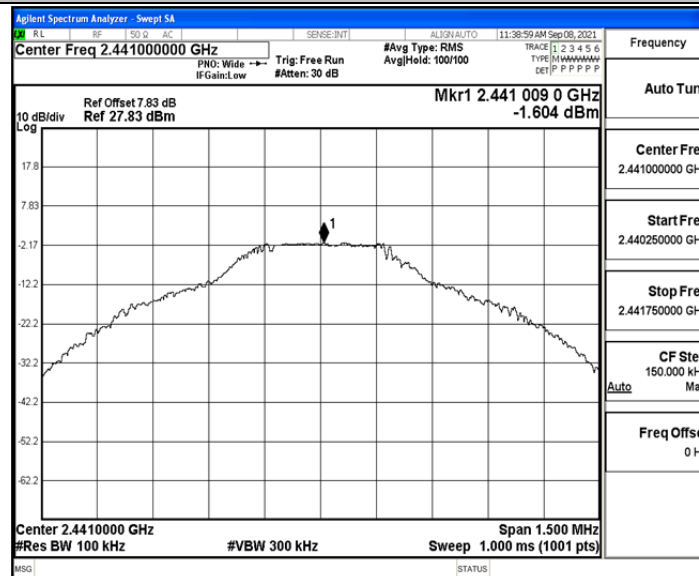
DH5_Ant1_2402_30~1000



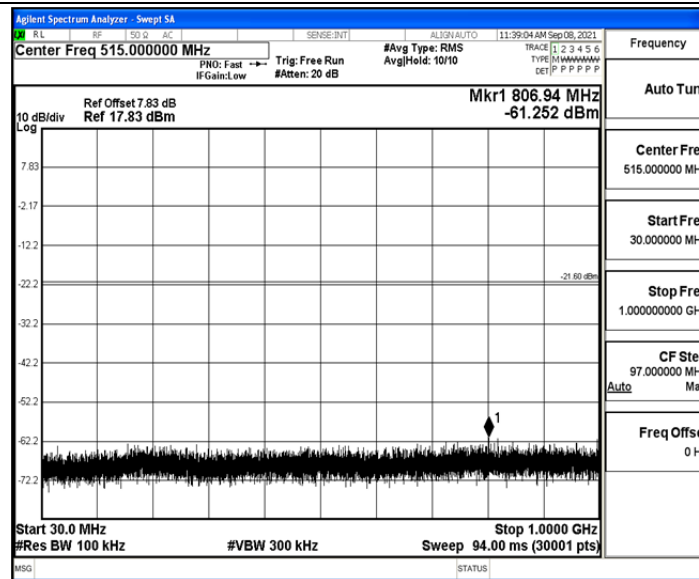
DH5_Ant1_2402_1000~26500



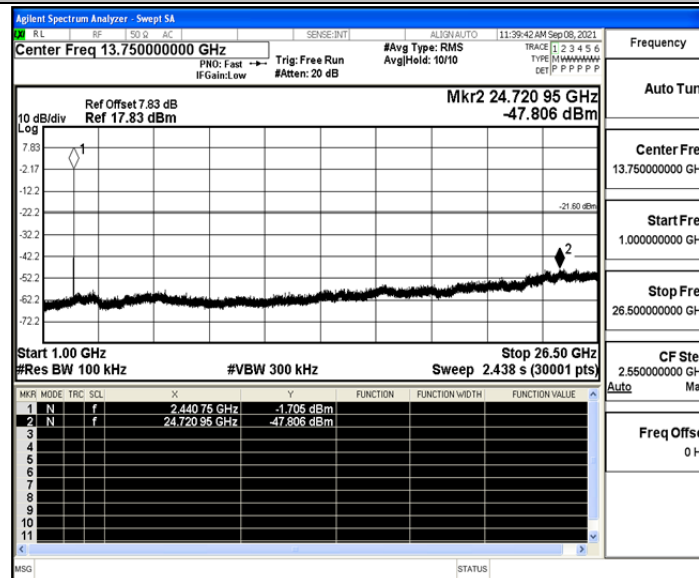
DH5_Ant1_2441_0~Reference



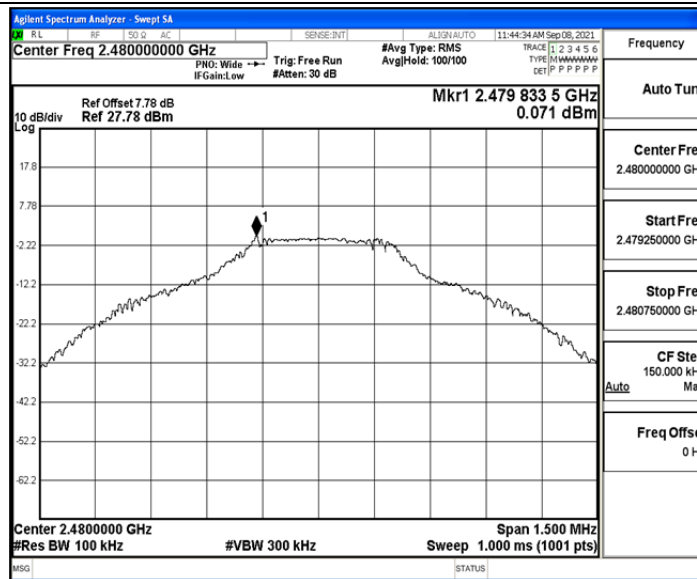
DH5_Ant1_2441_30~1000



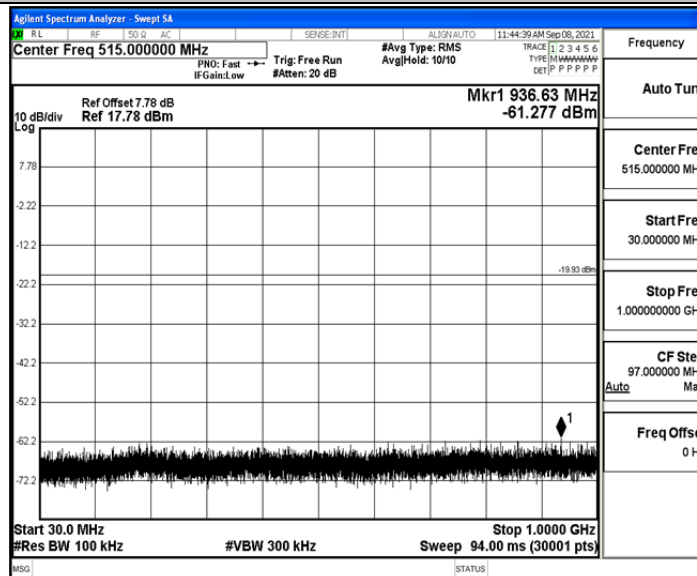
DH5_Ant1_2441_1000~26500



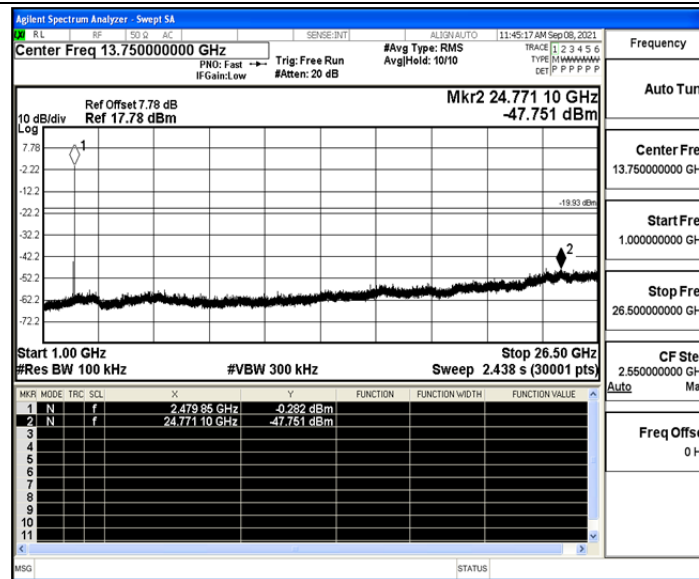
DH5_Ant1_2480_0~Reference



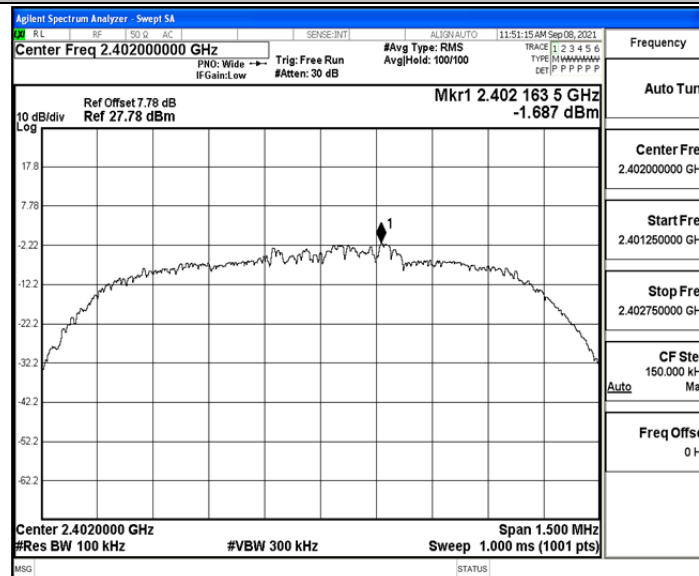
DH5_Ant1_2480_30~1000



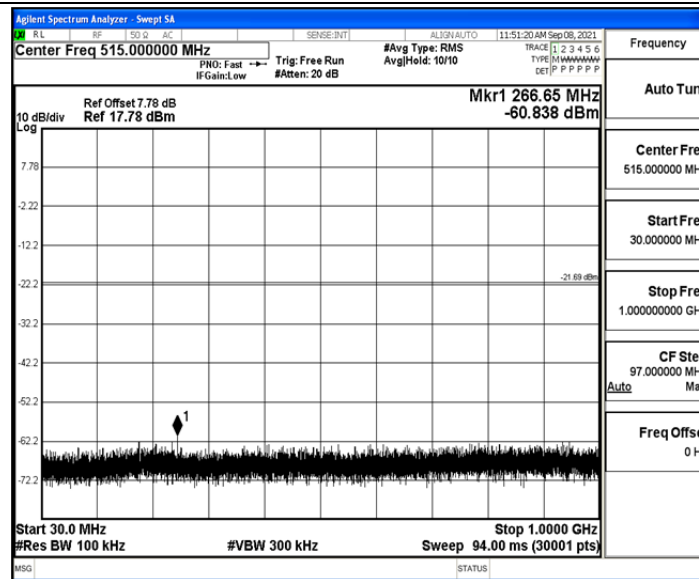
DH5_Ant1_2480_1000~26500



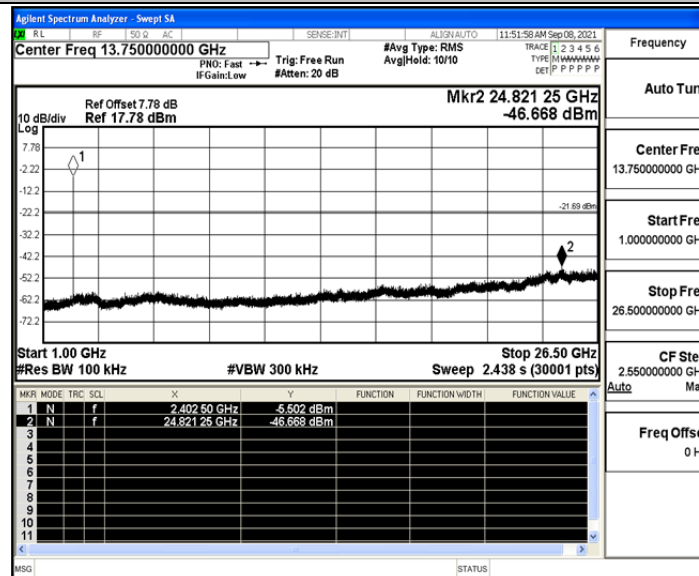
2DH5_Ant1_2402_0~Reference



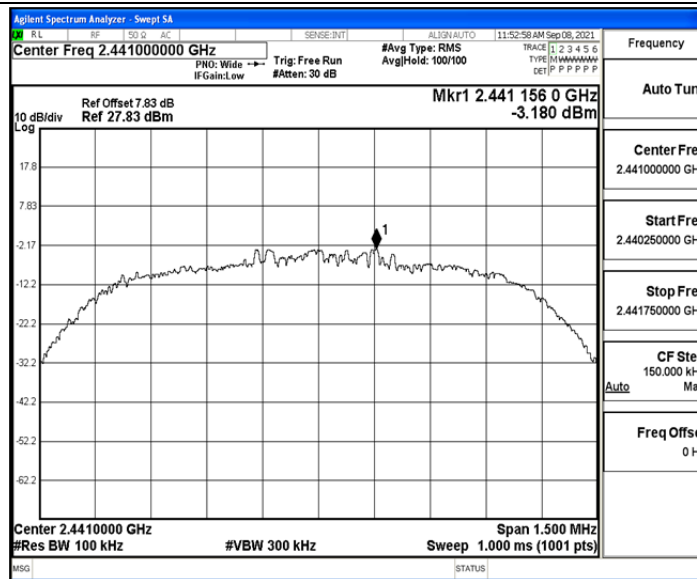
2DH5_Ant1_2402_30~1000



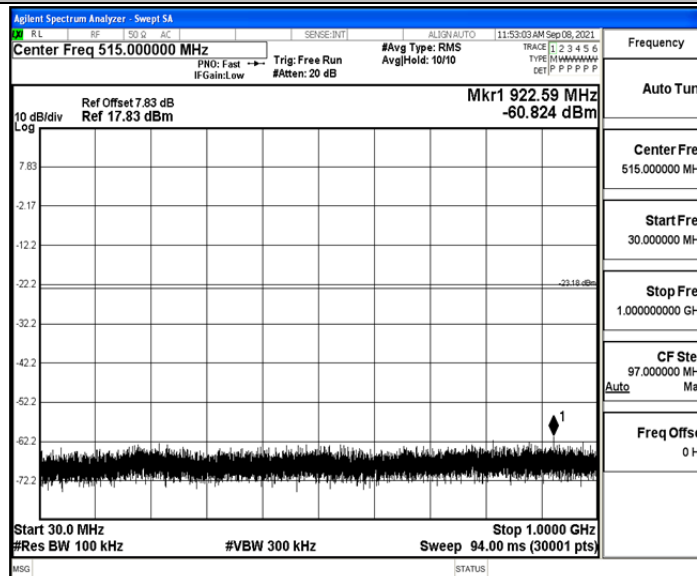
2DH5_Ant1_2402_1000~26500



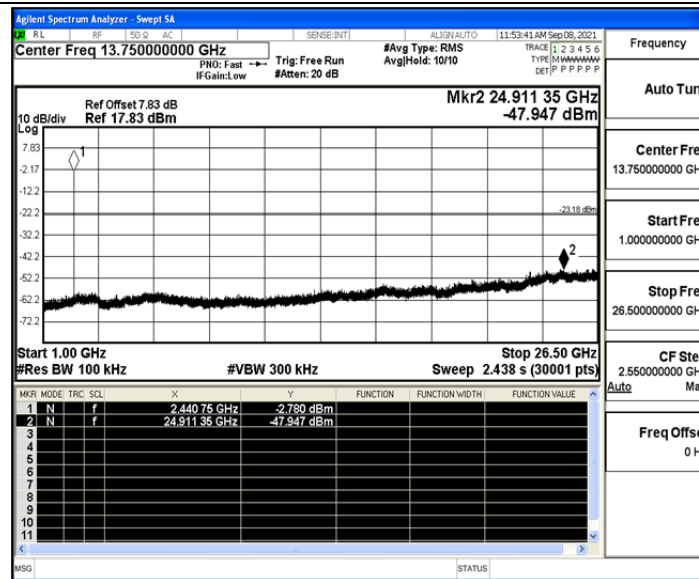
2DH5_Ant1_2441_0~Reference



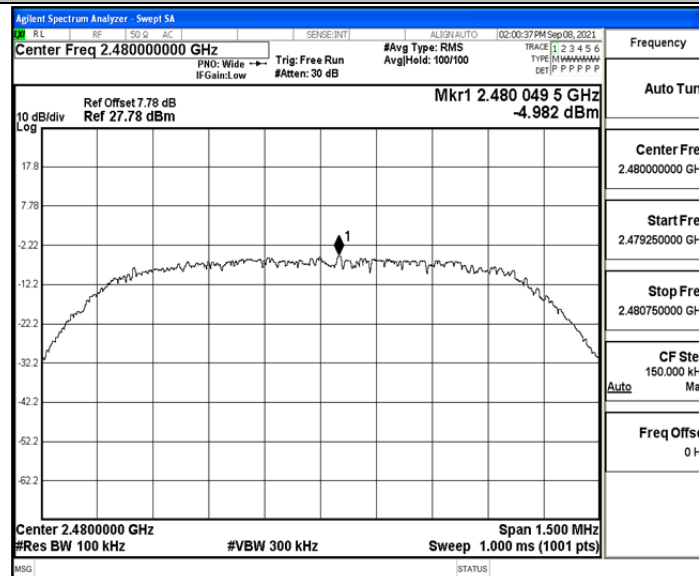
2DH5_Ant1_2441_30~1000



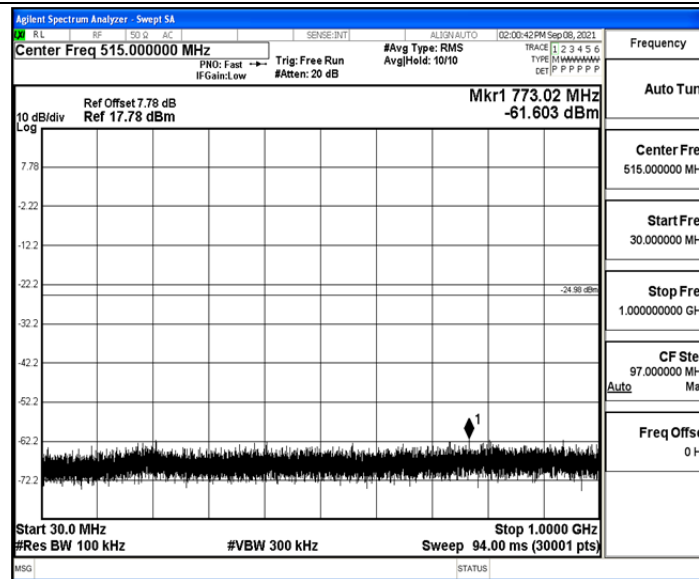
2DH5_Ant1_2441_1000~26500



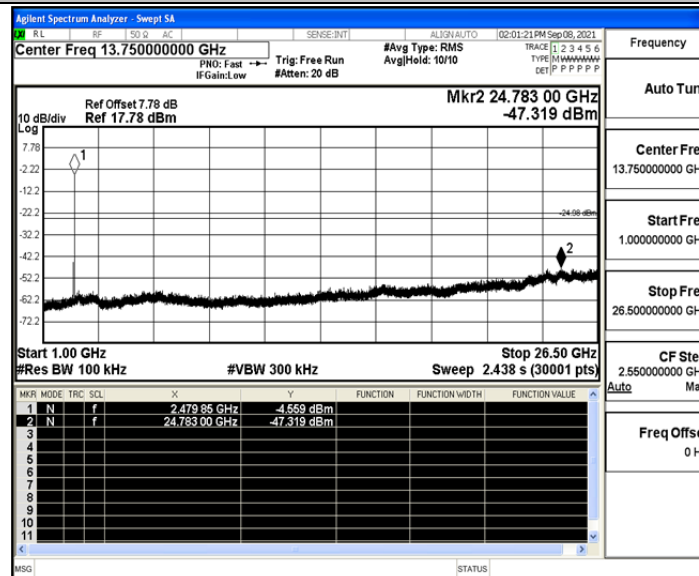
2DH5_Ant1_2480_0~Reference



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	-49.11	≤-41.20	46.09	≤54	PASS
				AV	2388.620	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2390.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2310.000	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2388.515	-37.41	≤-21.20	57.79	≤74	PASS
				Peak	2390.000	-39.63	≤-21.20	55.57	≤74	PASS
		High	2480	AV	2483.500	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2499.920	-48.01	≤-41.20	47.19	≤54	PASS
				AV	2500.000	-48.15	≤-41.20	47.05	≤54	PASS
				Peak	2483.500	-38.14	≤-21.20	57.06	≤74	PASS
				Peak	2490.800	-37.88	≤-21.20	57.32	≤74	PASS
				Peak	2500.000	-39.89	≤-21.20	55.31	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.58	≤-21.20	54.62	≤74	PASS
				Peak	2335.280	-37.36	≤-21.20	57.84	≤74	PASS
				Peak	2390.000	-40.88	≤-21.20	54.32	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.95	≤-21.20	55.25	≤74	PASS
				Peak	2496.160	-37.87	≤-21.20	57.33	≤74	PASS
				Peak	2500.000	-41.03	≤-21.20	54.17	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.1	≤-41.20	46.10	≤54	PASS
				AV	2383.895	-48.57	≤-41.20	46.63	≤54	PASS
				AV	2390.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2310.000	-41.73	≤-21.20	53.47	≤74	PASS
				Peak	2312.705	-38.06	≤-21.20	57.14	≤74	PASS
				Peak	2390.000	-39.58	≤-21.20	55.62	≤74	PASS
		High	2480	AV	2483.500	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2499.760	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2500.000	-47.97	≤-41.20	47.23	≤54	PASS
				Peak	2483.500	-40.29	≤-21.20	54.91	≤74	PASS
				Peak	2498.640	-36.78	≤-21.20	58.42	≤74	PASS
				Peak	2500.000	-39.05	≤-21.20	56.15	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.43	≤-21.20	54.77	≤74	PASS
				Peak	2386.205	-37.13	≤-21.20	58.07	≤74	PASS
				Peak	2390.000	-40.18	≤-21.20	55.02	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.07	≤-21.20	55.13	≤74	PASS
				Peak	2483.920	-37.93	≤-21.20	57.27	≤74	PASS
				Peak	2500.000	-39.97	≤-21.20	55.23	≤74	PASS



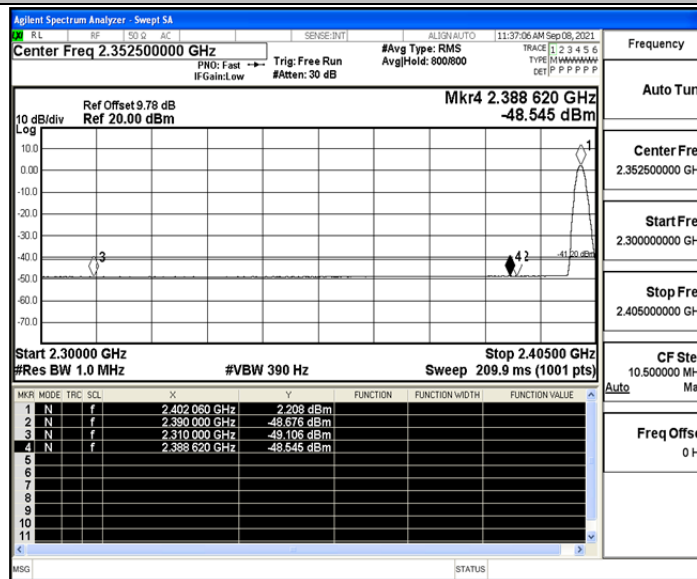
Note:

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.

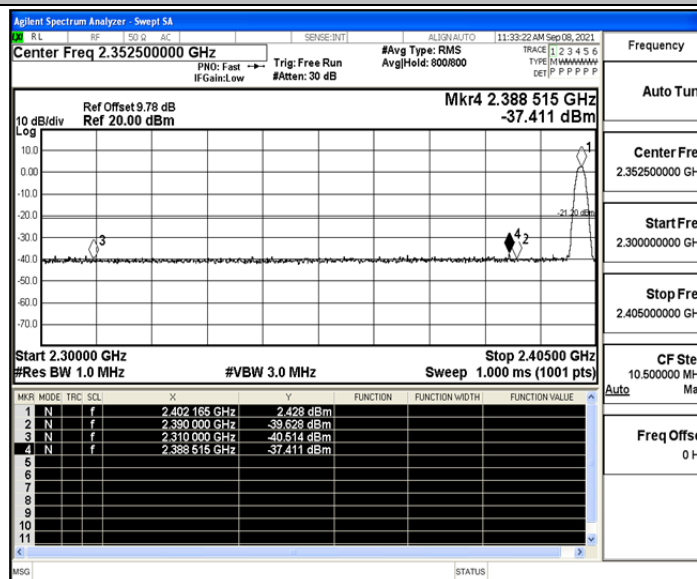


Test Graphs

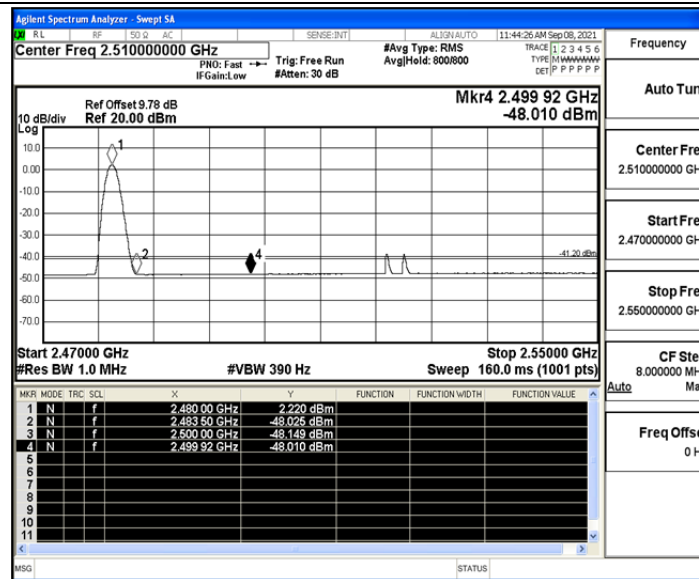
DH5_Ant1_Low_2402_AV



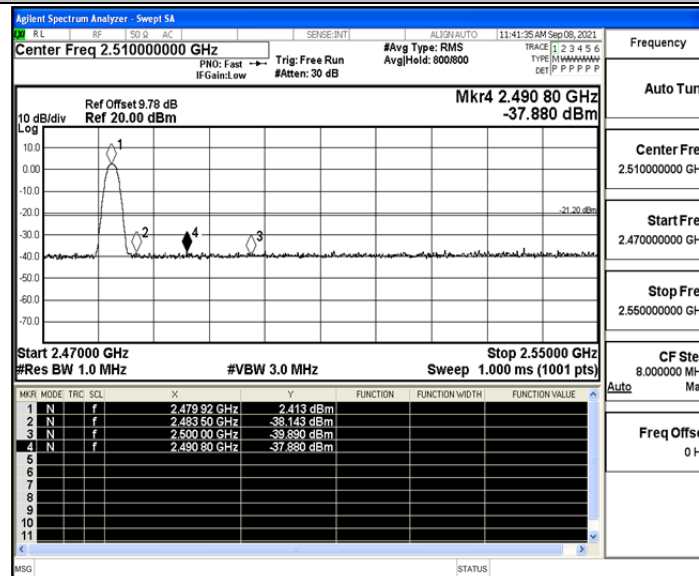
DH5_Ant1_Low_2402_Peak



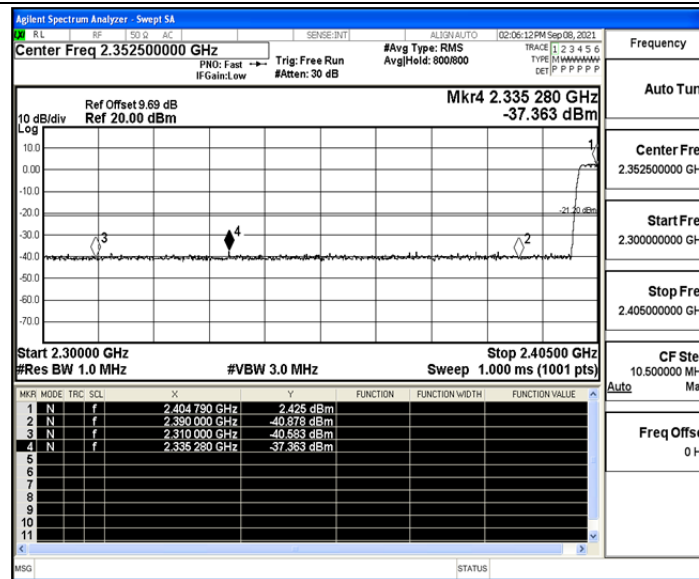
DH5_Ant1_High_2480_AV



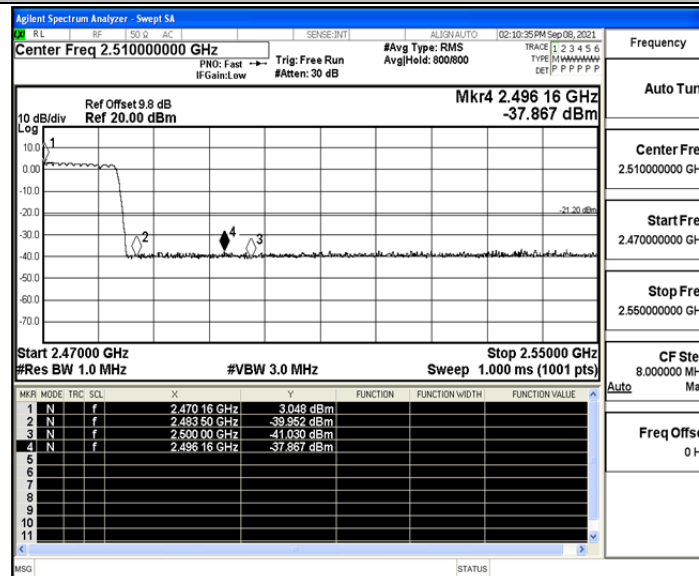
DH5_Ant1_High_2480_Peak



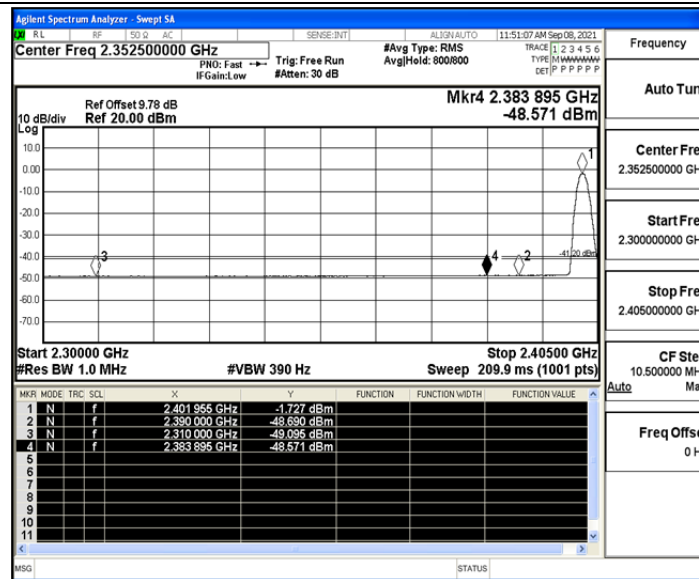
DH5_Ant1_Low_Hop_2402_Peak



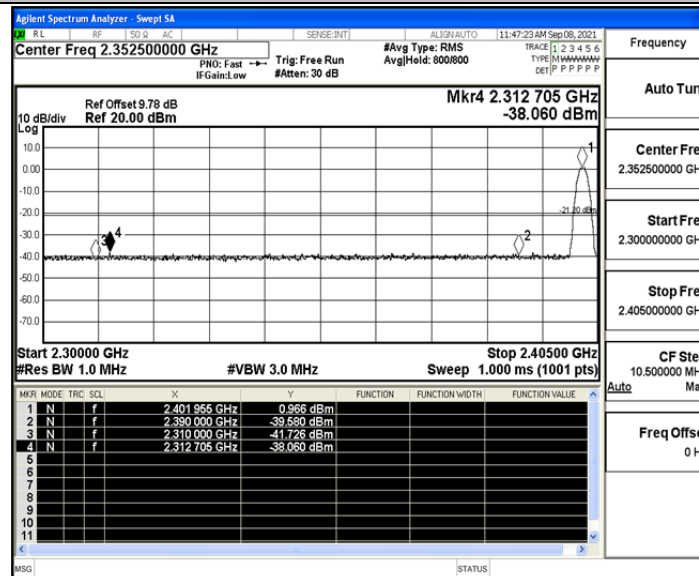
DH5_Ant1_High_Hop_2480_Peak



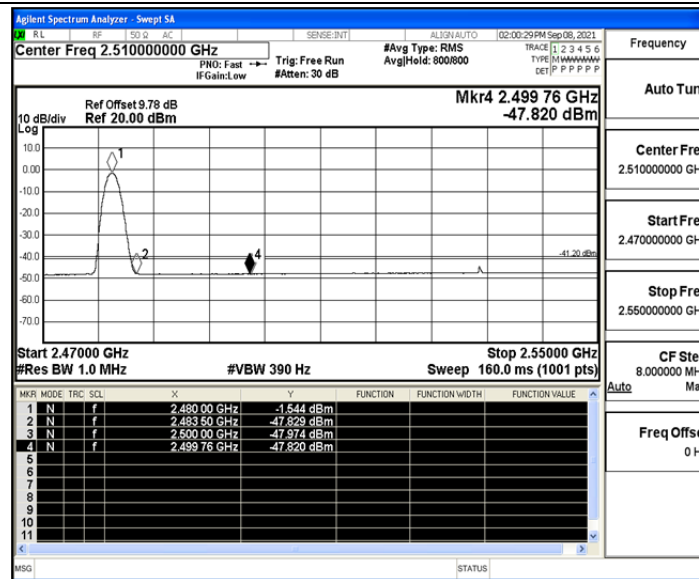
2DH5_Ant1_Low_2402_AV



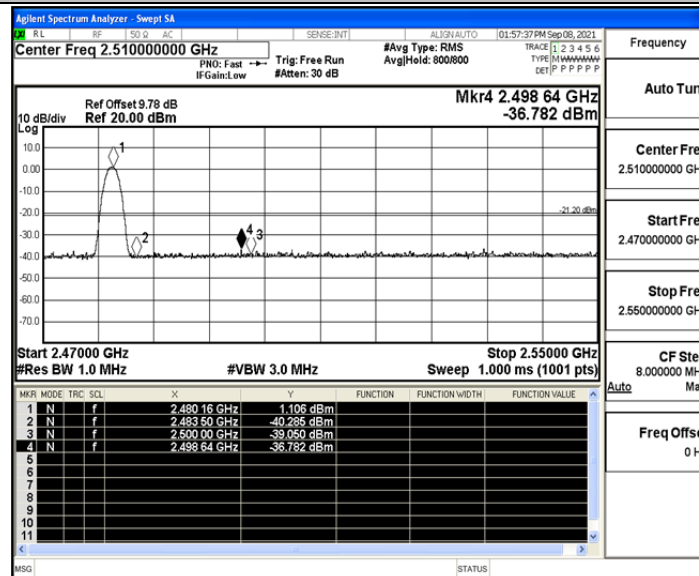
2DH5_Ant1_Low_2402_Peak



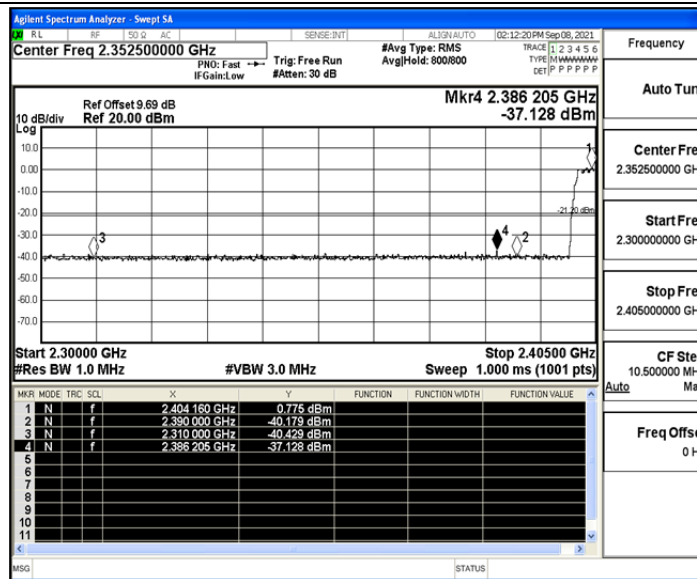
2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak



2DH5_Ant1_High_Hop_2480_Peak

