



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Notebook

Test Model: HT14CBI381SG

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan

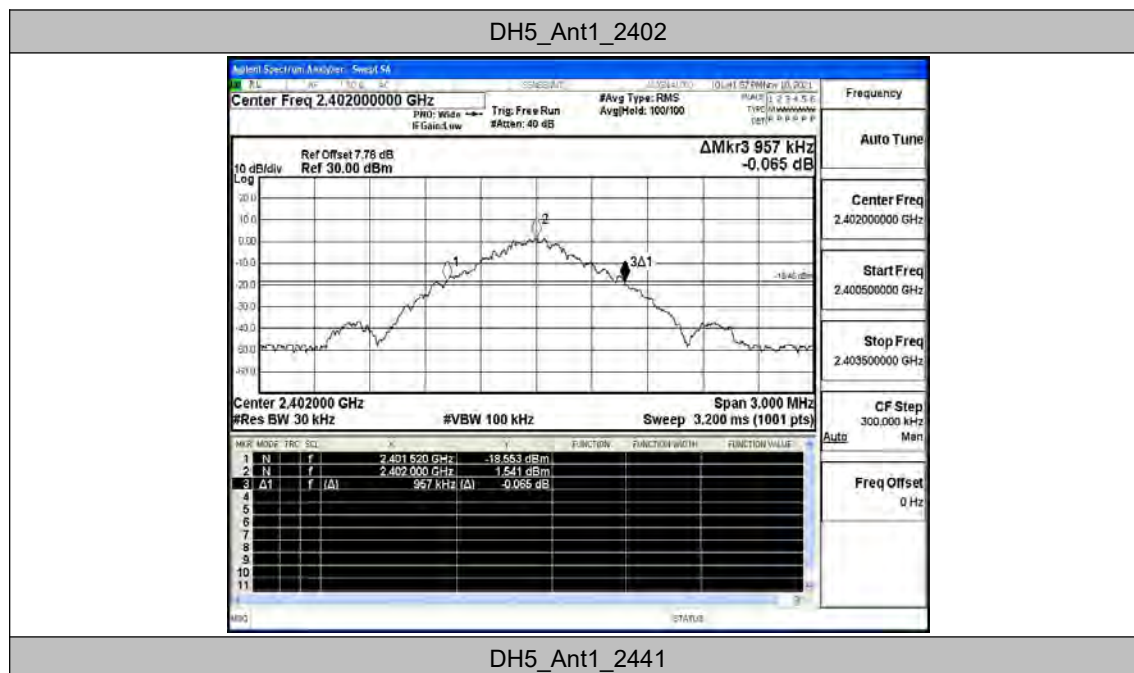


A.1 20dB Emission Bandwidth

Test Result

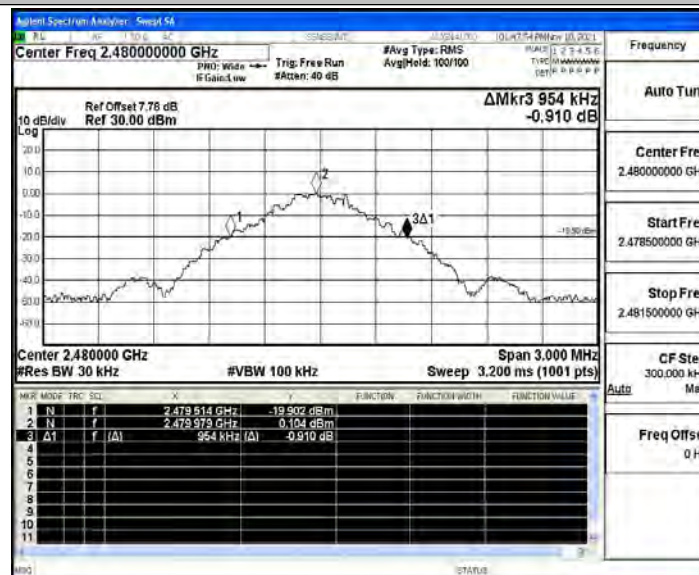
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.520	2402.477	---	PASS
		2441	0.957	2440.520	2441.477	---	PASS
		2480	0.954	2479.514	2480.468	---	PASS
2DH5	Ant1	2402	1.443	2401.253	2402.696	---	PASS
		2441	1.440	2440.256	2441.696	---	PASS
		2480	1.476	2479.262	2480.738	---	PASS
3DH5	Ant1	2402	1.464	2401.259	2402.723	---	PASS
		2441	1.548	2440.220	2441.768	---	PASS
		2480	1.485	2479.256	2480.741	---	PASS

Test Graphs

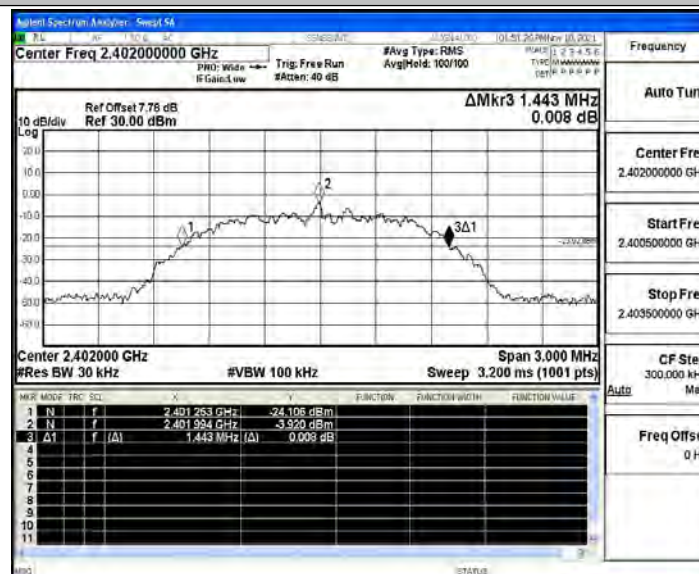




DH5_Ant1_2480

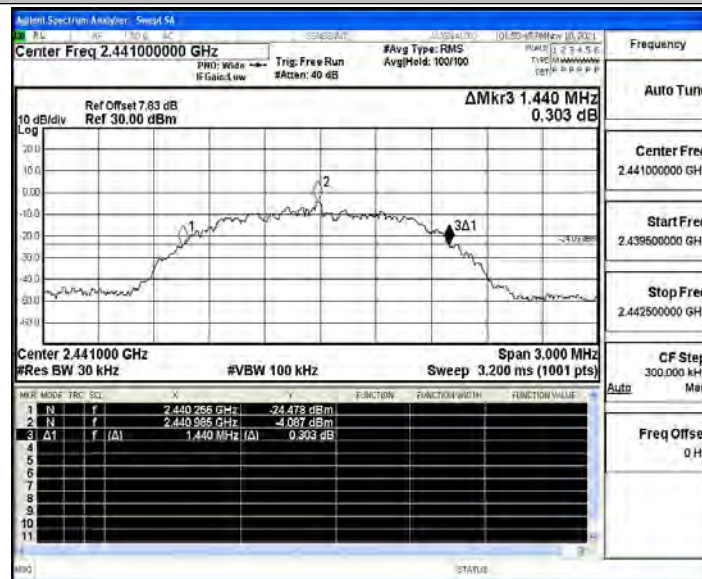


2DH5_Ant1_2402

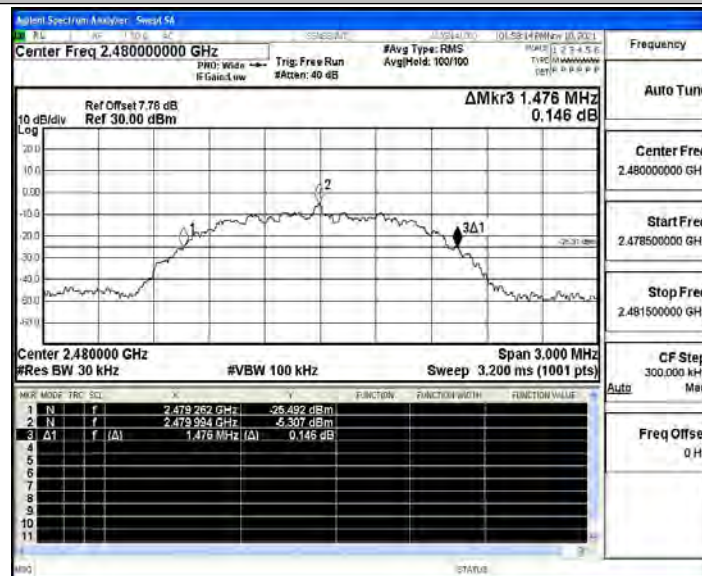




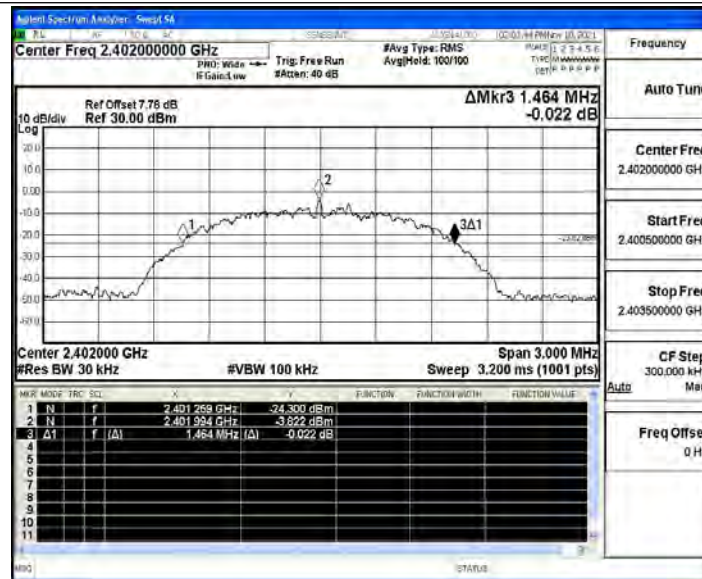
2DH5_Ant1_2441



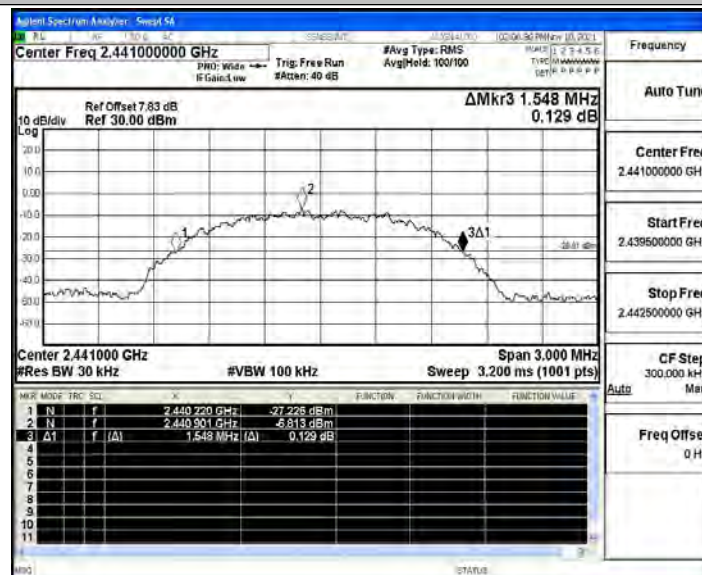
2DH5_Ant1_2480



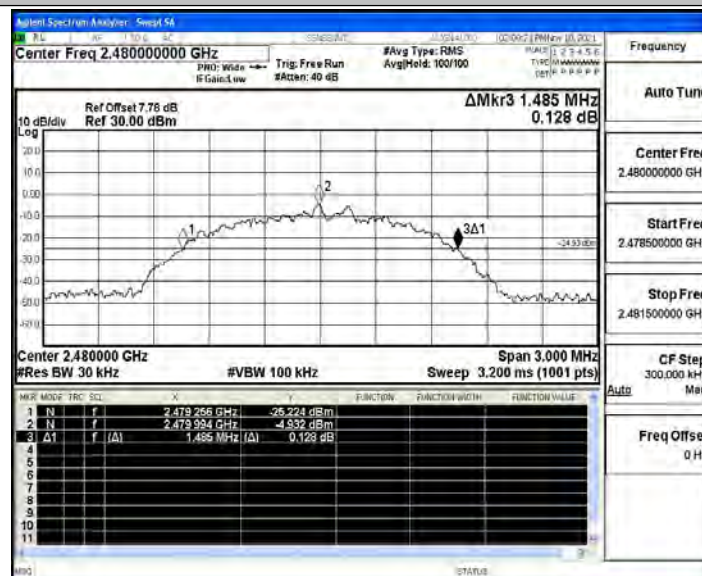
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum conducted output power

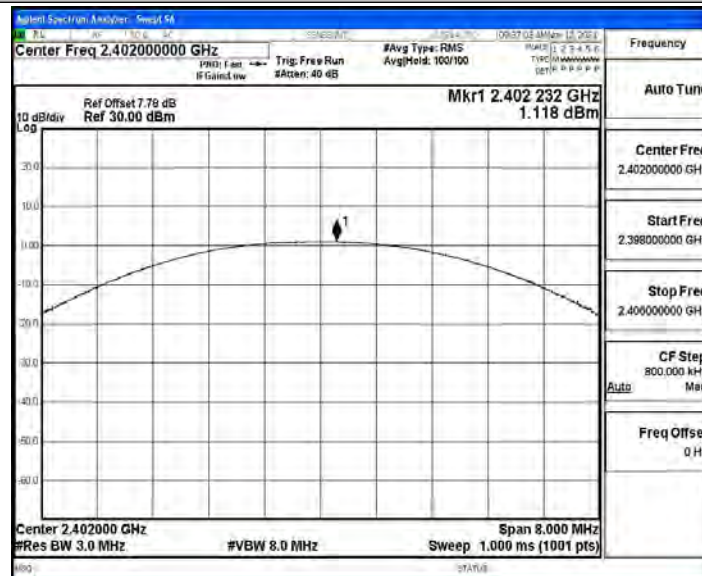
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.12	≤21	PASS
		2441	2.2	≤21	PASS
		2480	0.76	≤21	PASS
2DH5	Ant1	2402	0.68	≤21	PASS
		2441	0.56	≤21	PASS
		2480	-0.33	≤21	PASS
3DH5	Ant1	2402	0.96	≤21	PASS
		2441	0.8	≤21	PASS
		2480	-0.21	≤21	PASS

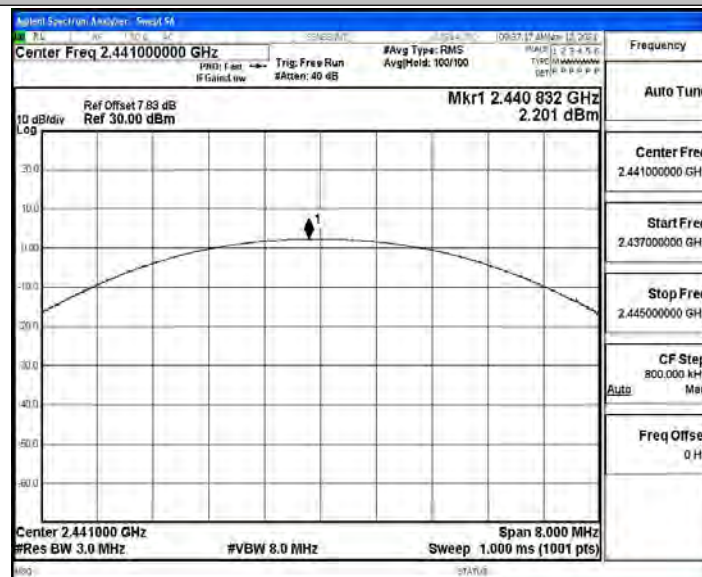


Test Graphs

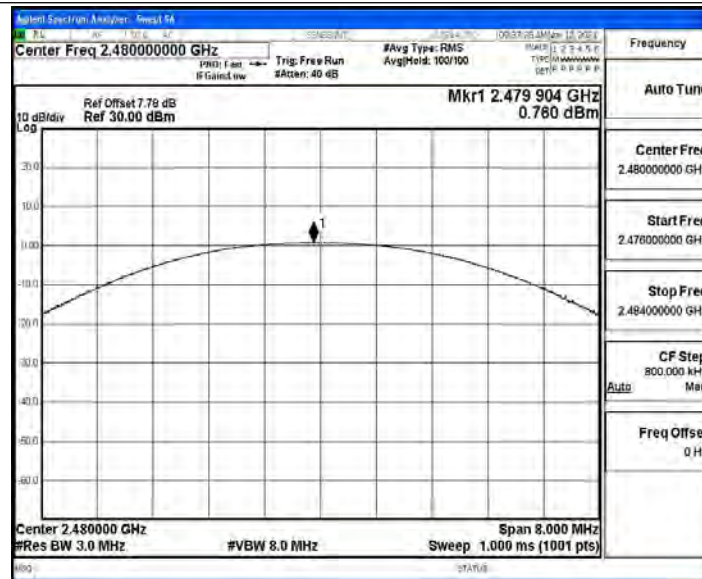
DH5_Ant1_2402



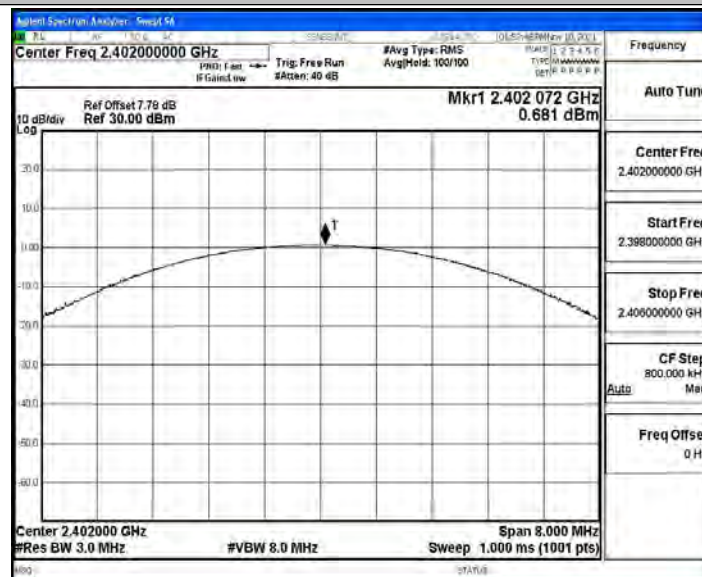
DH5_Ant1_2441



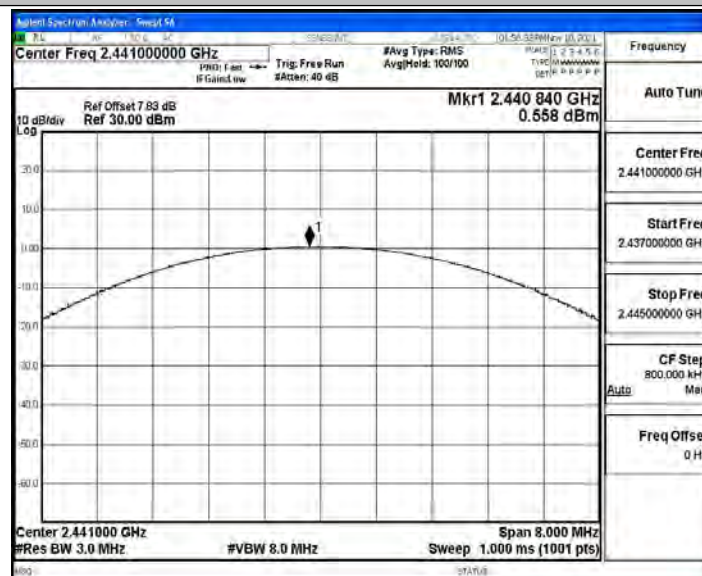
DH5_Ant1_2480



2DH5_Ant1_2402

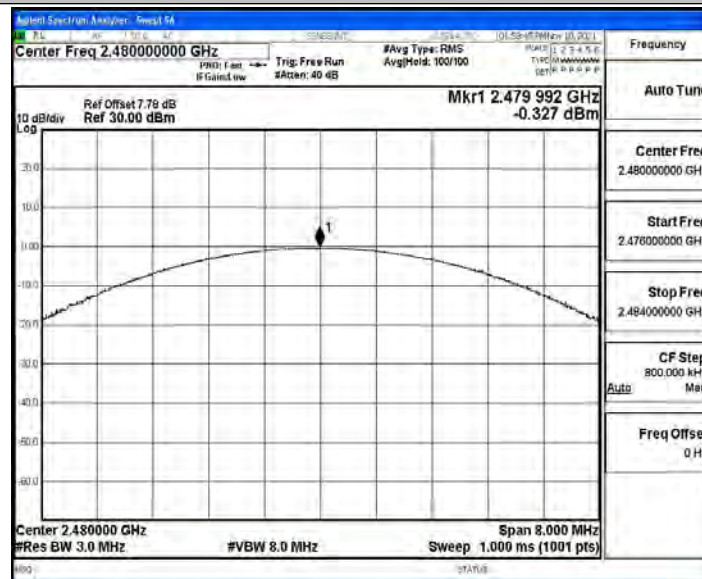


2DH5_Ant1_2441

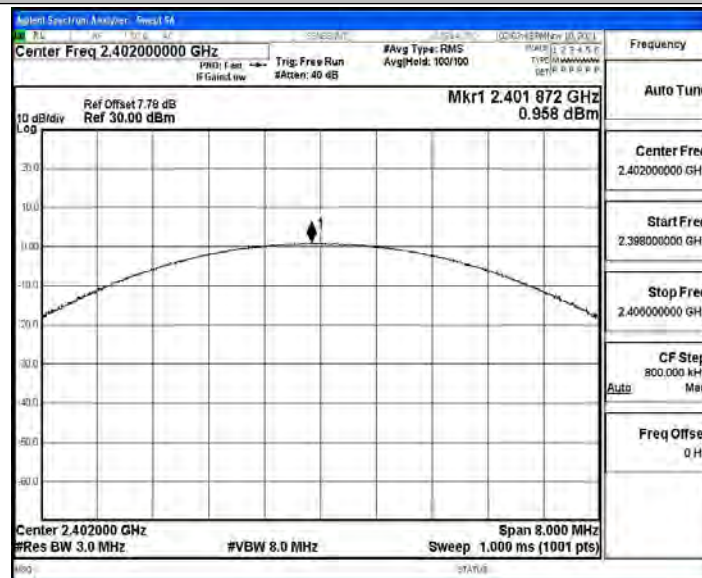




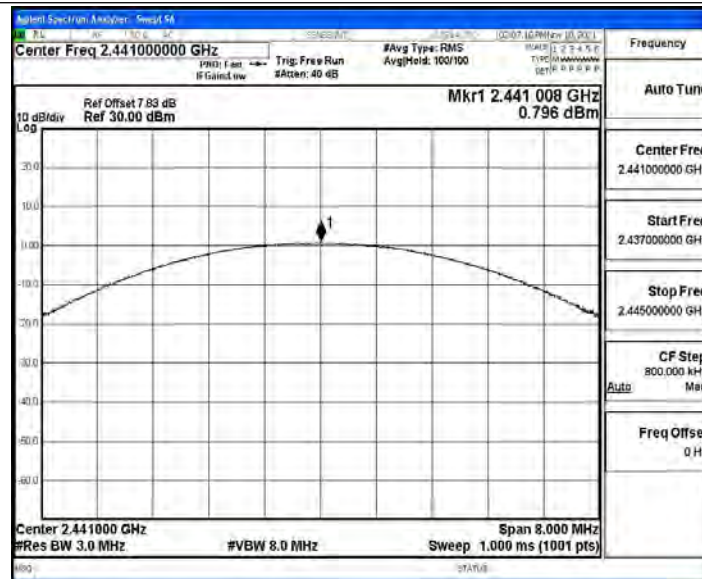
2DH5_Ant1_2480



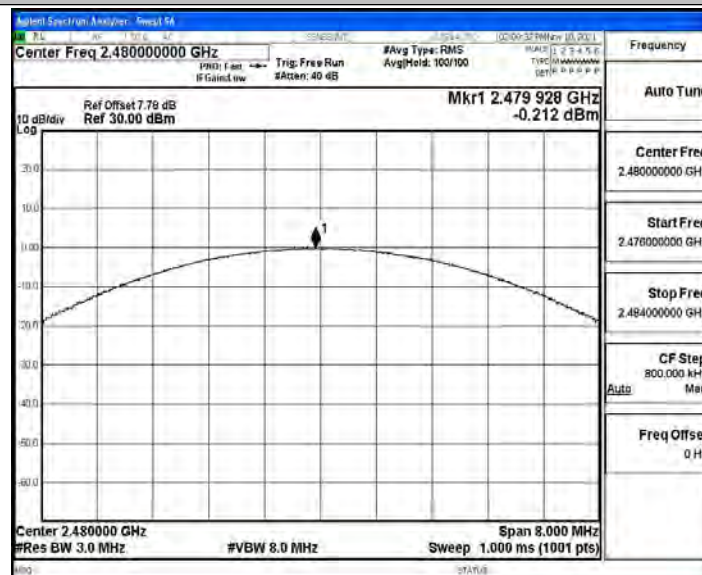
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



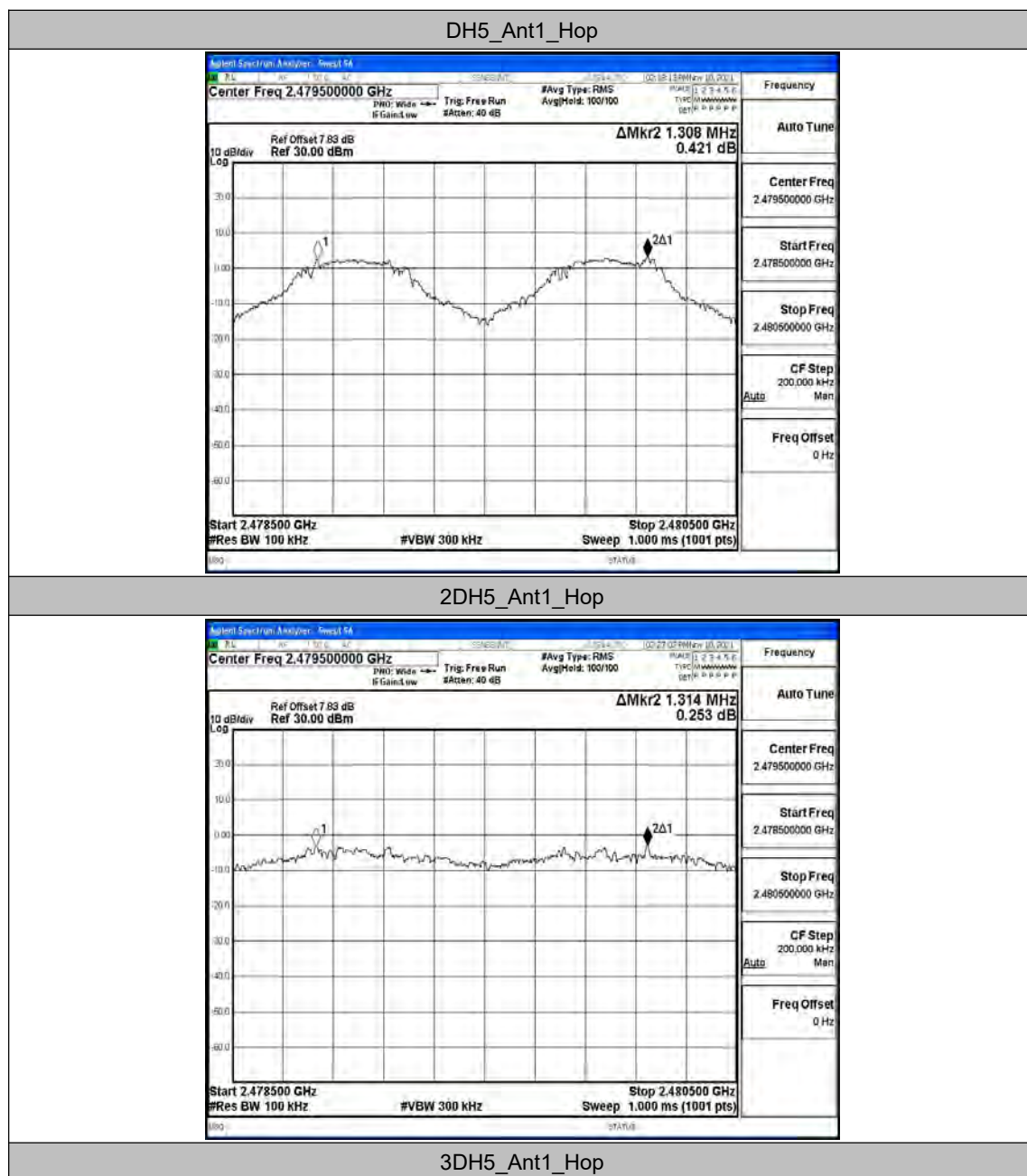


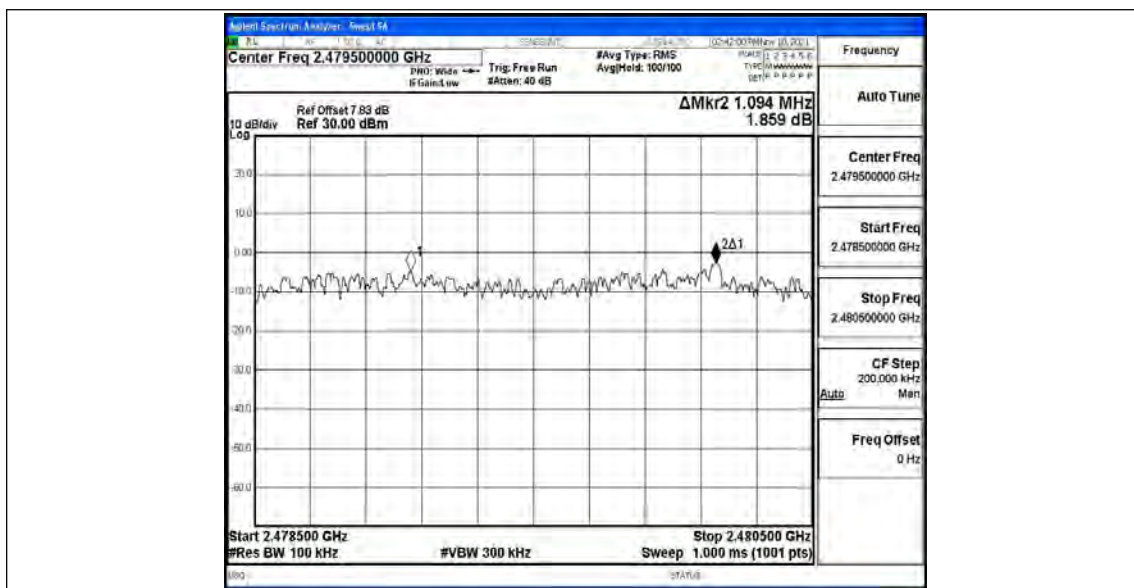
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.308	≥ 0.957	PASS
2DH5	Ant1	Hop	1.314	≥ 0.984	PASS
3DH5	Ant1	Hop	1.094	≥ 1.032	PASS

Test Graphs





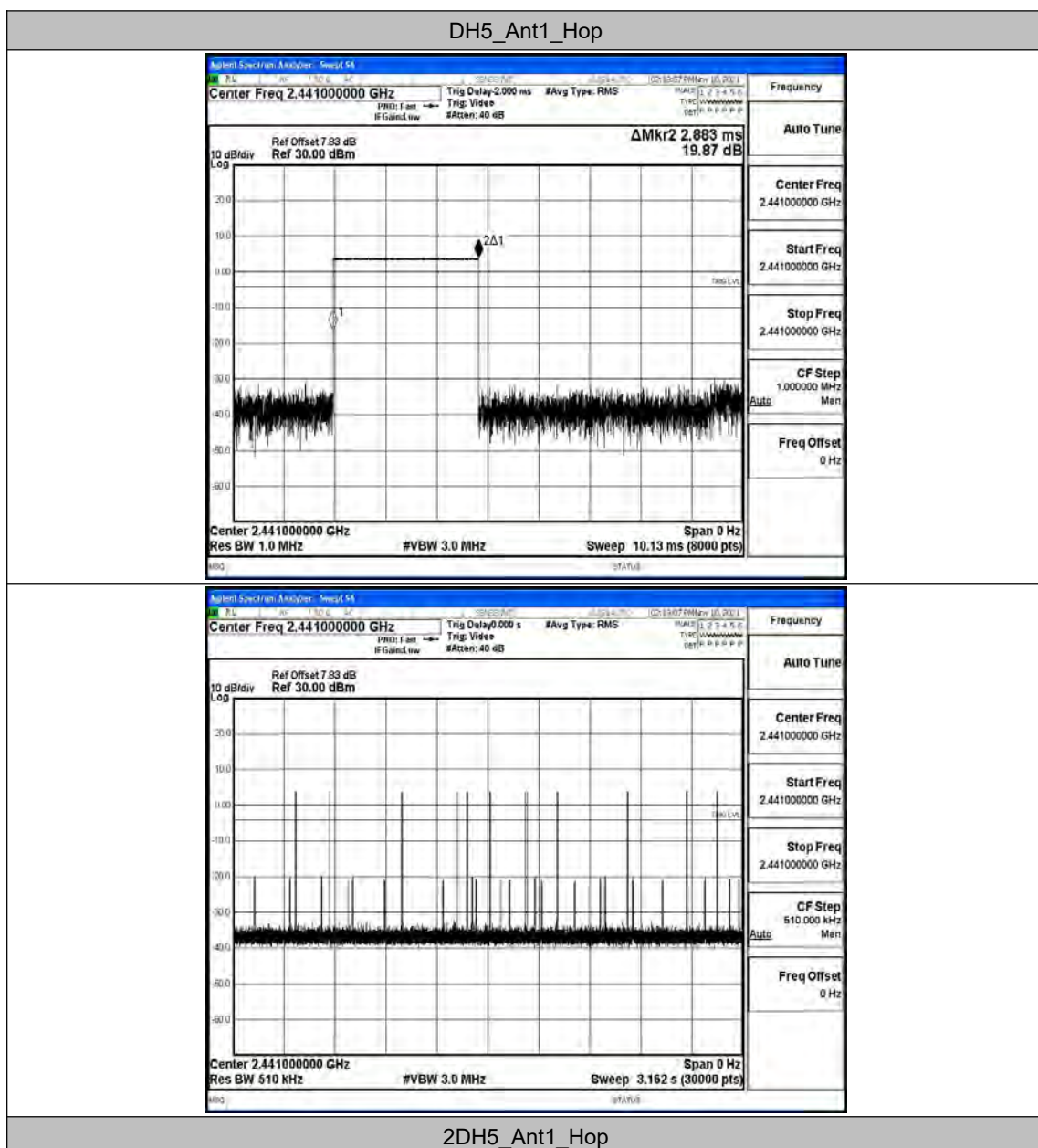


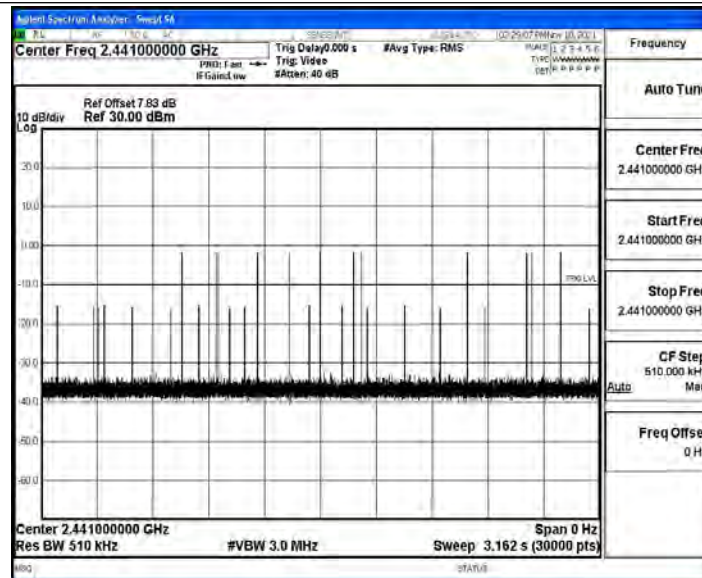
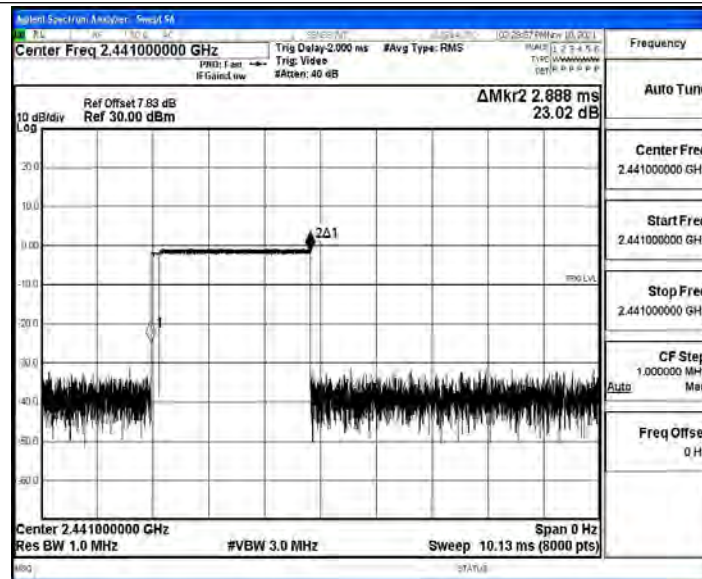
A.4 Time of occupancy

Test Result

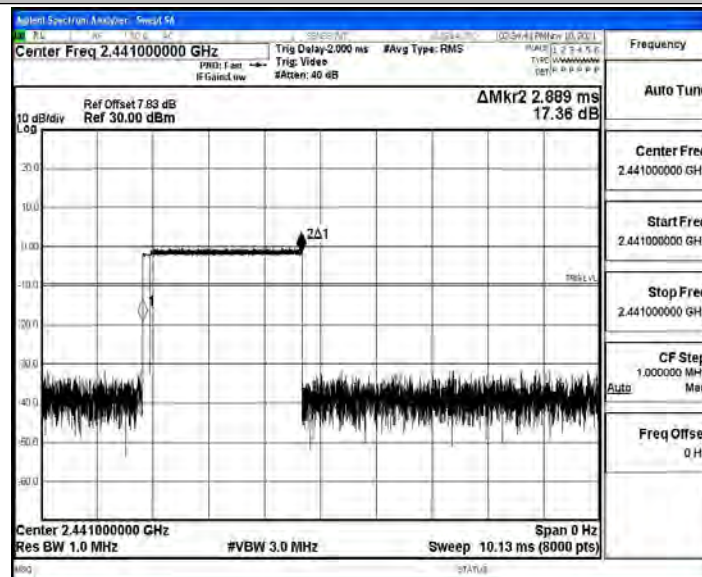
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	130	0.375	≤0.4	PASS
2DH5	Ant1	Hop	2.89	130	0.375	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.347	≤0.4	PASS

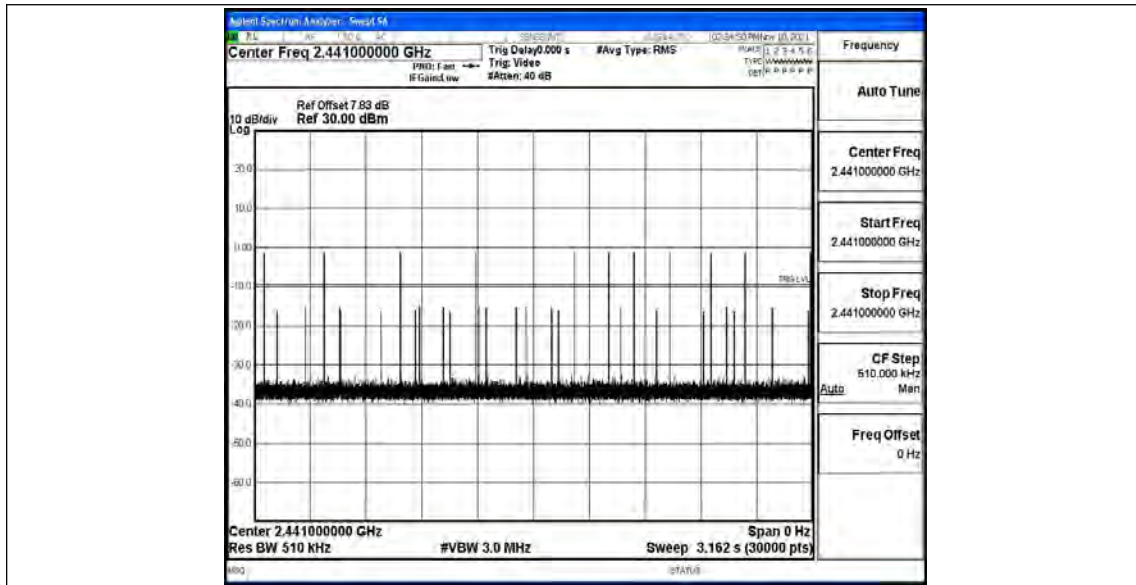
Test Graphs





3DH5_Ant1_Hop







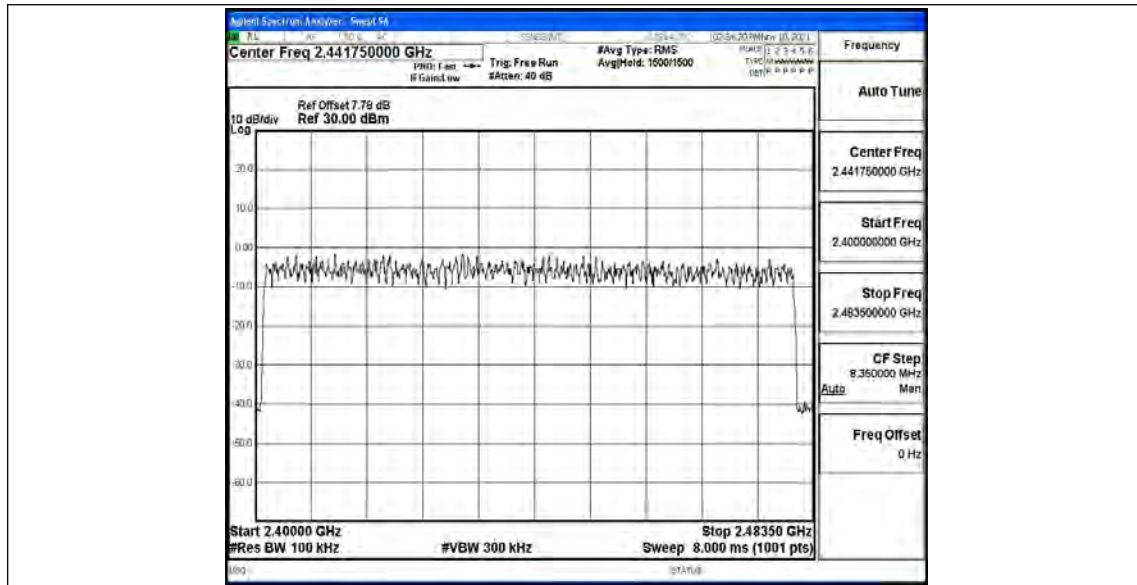
A.5 Number of hopping channels

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

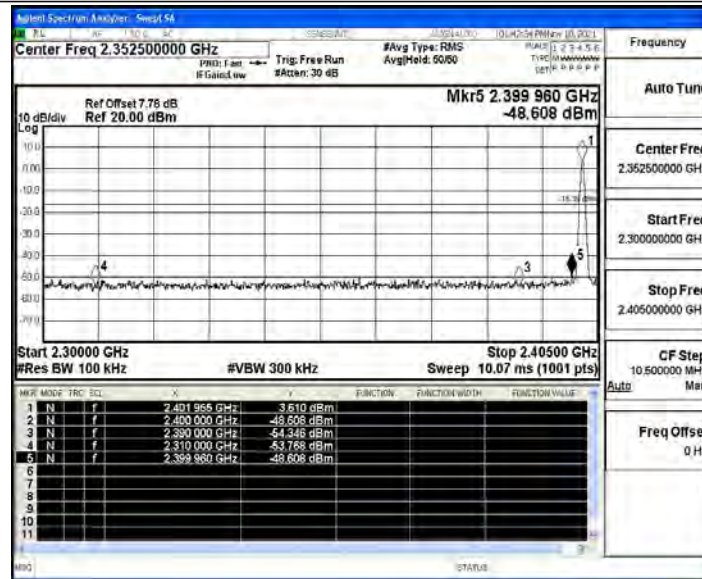
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.61	-48.61	≤ -16.39	PASS
		High	2480	2.54	-42.33	≤ -17.46	PASS
		Low	Hop_2402	3.24	-49.34	≤ -16.76	PASS
		High	Hop_2480	2.75	-48.55	≤ -17.25	PASS
2DH5	Ant1	Low	2402	-3.99	-48.78	≤ -23.99	PASS
		High	2480	-3.00	-49.8	≤ -23	PASS
		Low	Hop_2402	-2.57	-50.16	≤ -22.57	PASS
		High	Hop_2480	-3.73	-48.96	≤ -23.73	PASS
3DH5	Ant1	Low	2402	-3.31	-49.57	≤ -23.31	PASS
		High	2480	-3.18	-46.72	≤ -23.18	PASS
		Low	Hop_2402	-3.36	-49.8	≤ -23.36	PASS
		High	Hop_2480	-3.20	-49.14	≤ -23.2	PASS

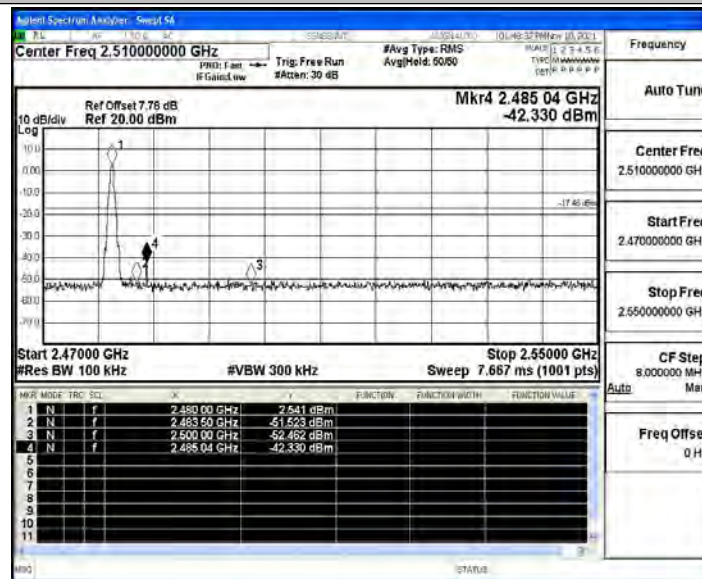


Test Graphs

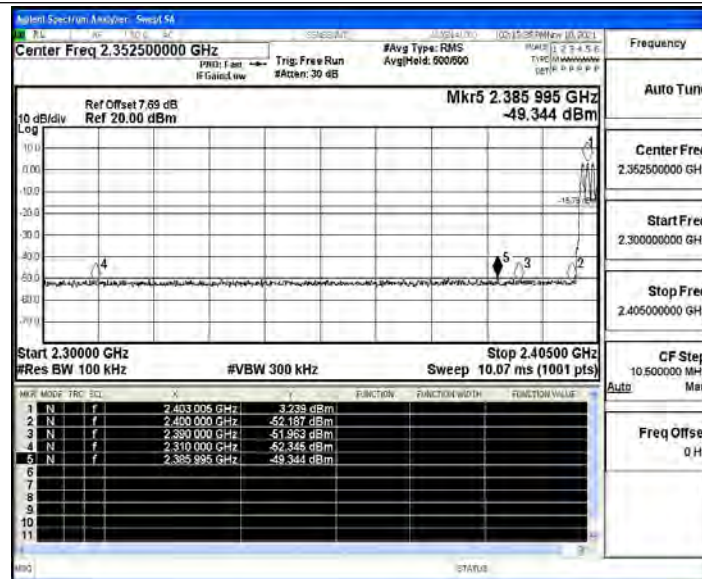
DH5_Ant1_Low_2402



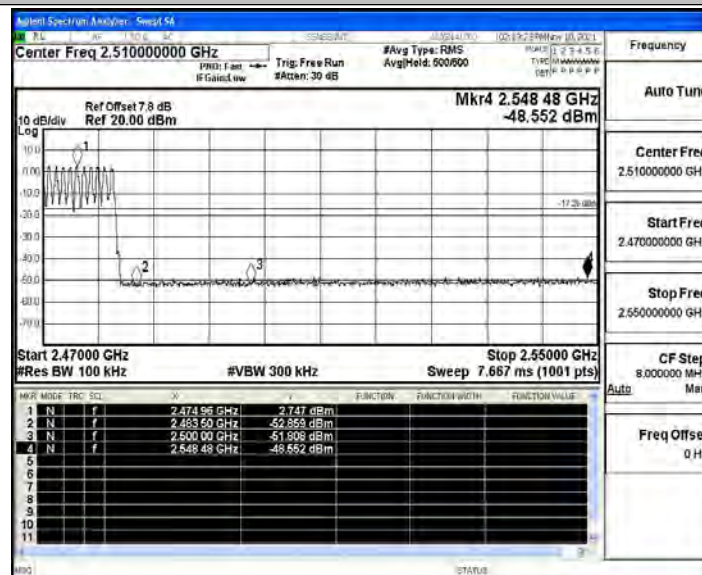
DH5_Ant1_High_2480



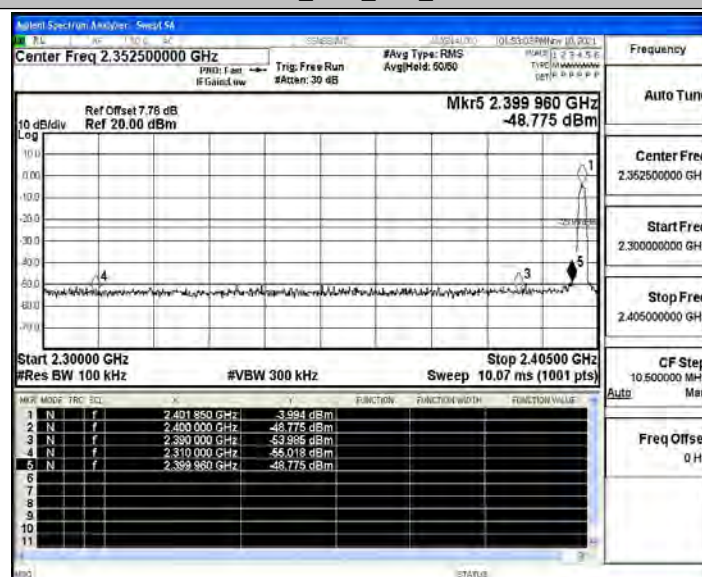
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

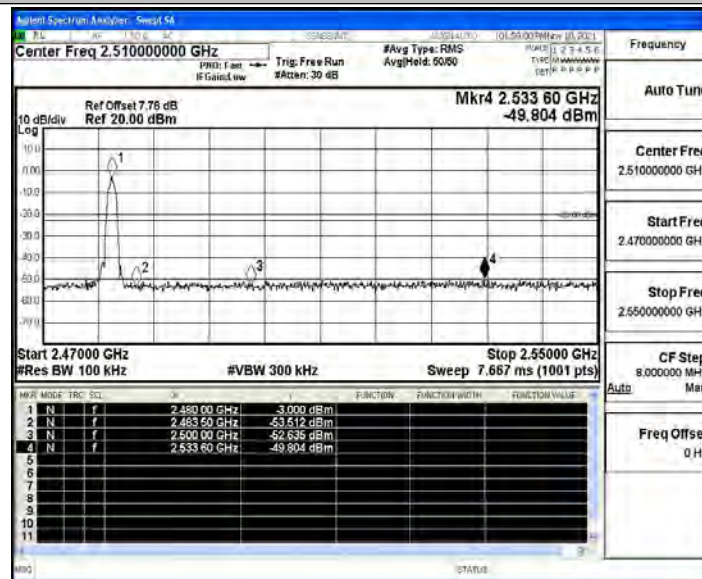


2DH5_Ant1_Low_2402

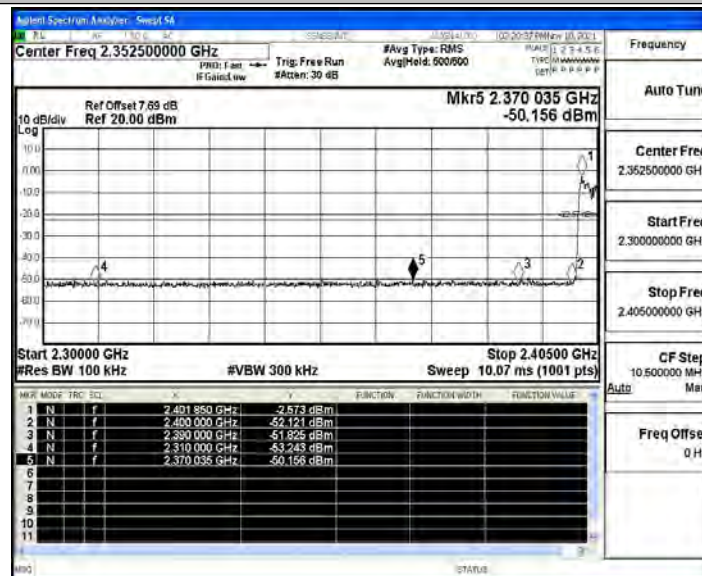




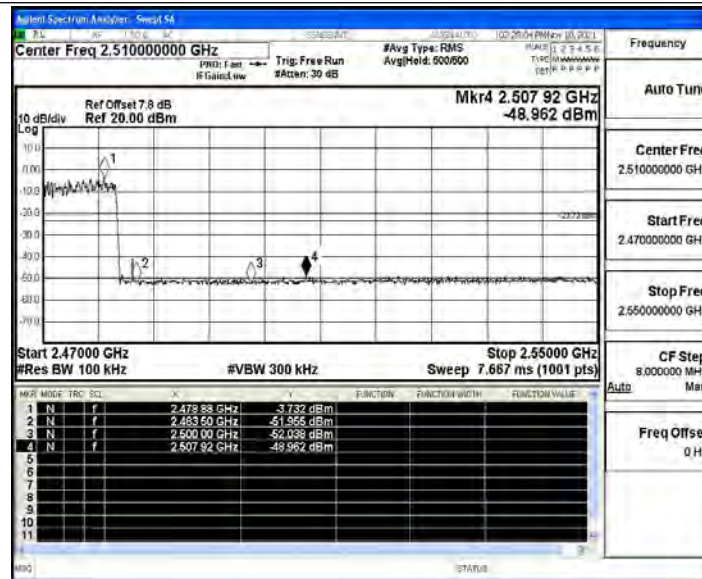
2DH5_Ant1_High_2480



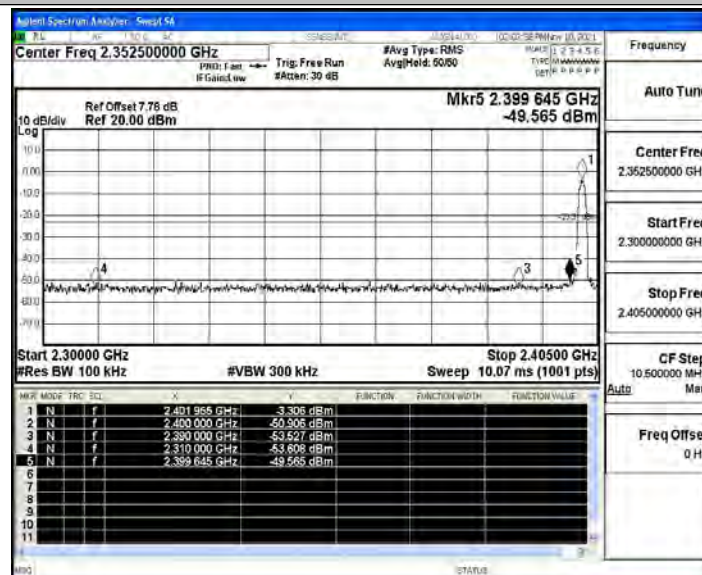
2DH5_Ant1_Low_Hop_2402



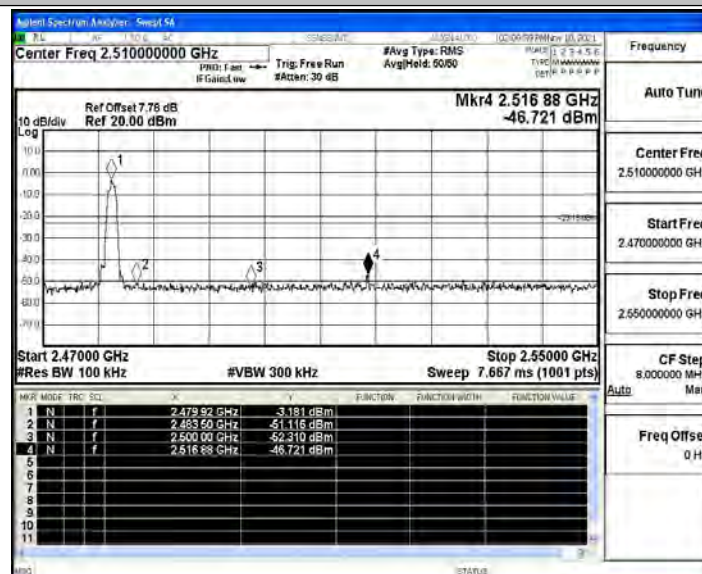
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

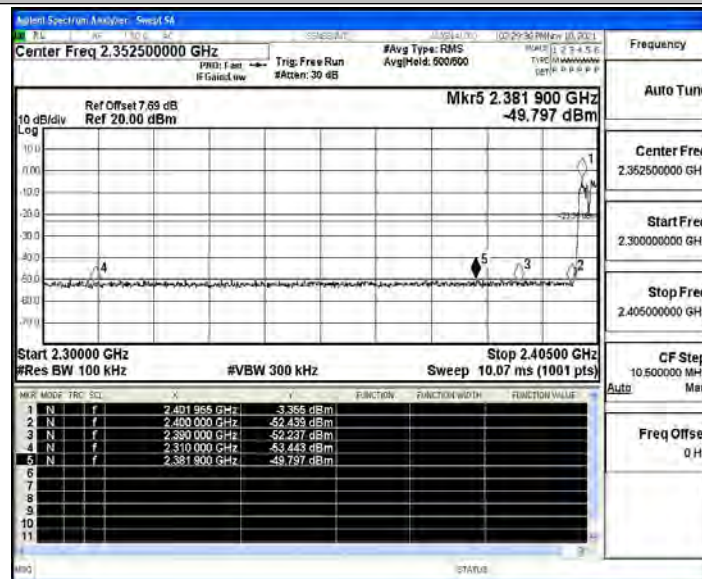


3DH5_Ant1_High_2480

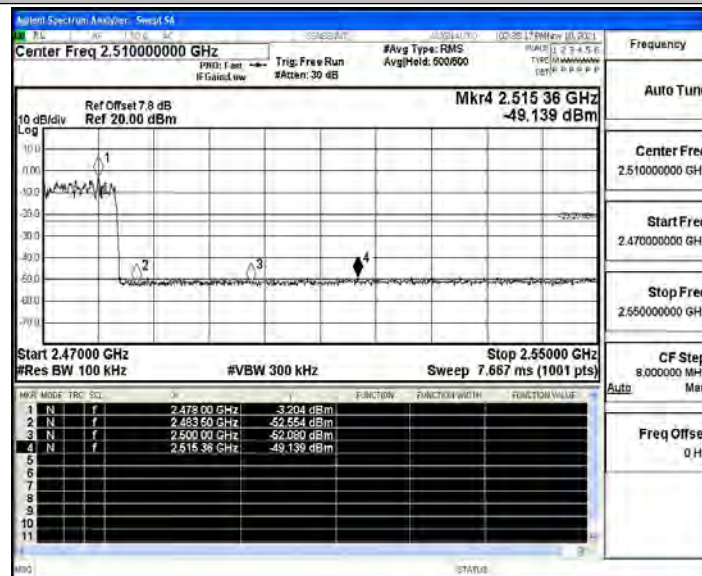




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

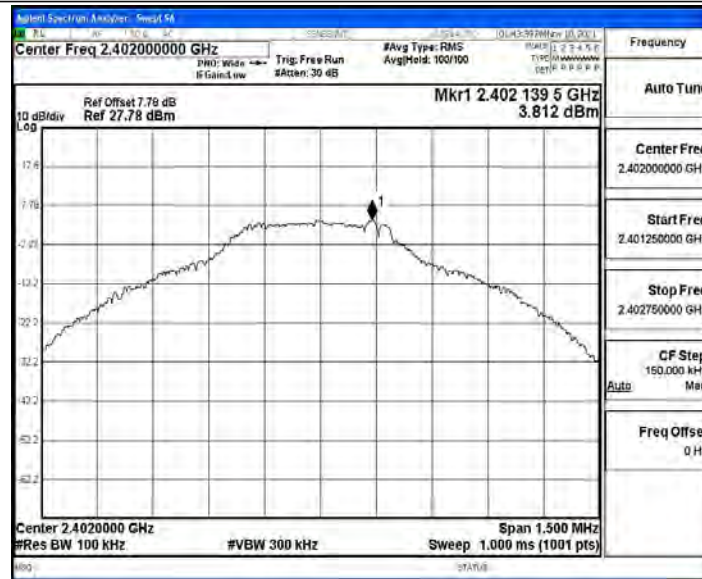
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-61.75	≤-16.19	PASS
			1000~26500	3.81	-47.51	≤-16.19	PASS
		2441	Reference	3.62	3.62	---	PASS
			30~1000	3.62	-61.35	≤-16.38	PASS
			1000~26500	3.62	-47.09	≤-16.38	PASS
		2480	Reference	2.79	2.79	---	PASS
			30~1000	2.79	-61.92	≤-17.21	PASS
			1000~26500	2.79	-46.44	≤-17.21	PASS
2DH5	Ant1	2402	Reference	-1.97	-1.97	---	PASS
			30~1000	-1.97	-59.88	≤-21.97	PASS
			1000~26500	-1.97	-47.31	≤-21.97	PASS
		2441	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-61.59	≤-22.24	PASS
			1000~26500	-2.24	-46.81	≤-22.24	PASS
		2480	Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-61.85	≤-23.73	PASS
			1000~26500	-3.73	-47.1	≤-23.73	PASS
3DH5	Ant1	2402	Reference	-2.64	-2.64	---	PASS
			30~1000	-2.64	-61.28	≤-22.64	PASS
			1000~26500	-2.64	-47.23	≤-22.64	PASS
		2441	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-61.8	≤-22.02	PASS
			1000~26500	-2.02	-47.59	≤-22.02	PASS
		2480	Reference	-3.01	-3.01	---	PASS
			30~1000	-3.01	-61.57	≤-23.01	PASS
			1000~26500	-3.01	-47.35	≤-23.01	PASS

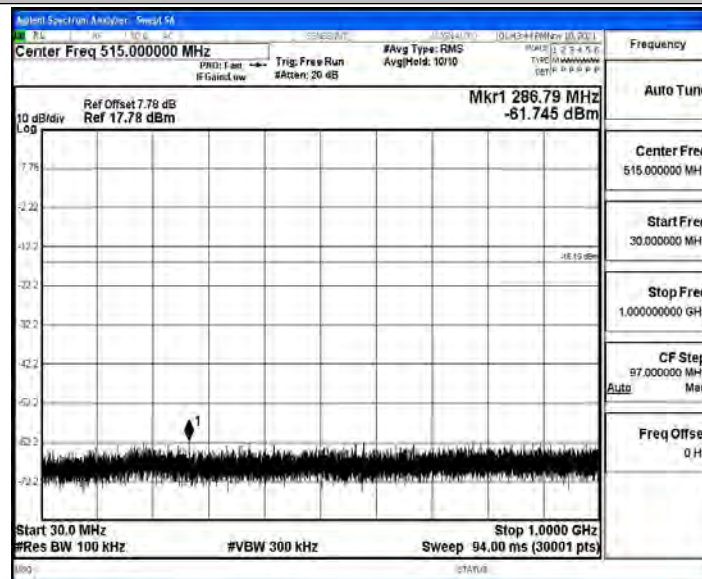


Test Graphs

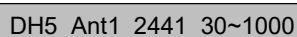
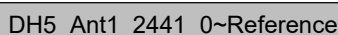
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000

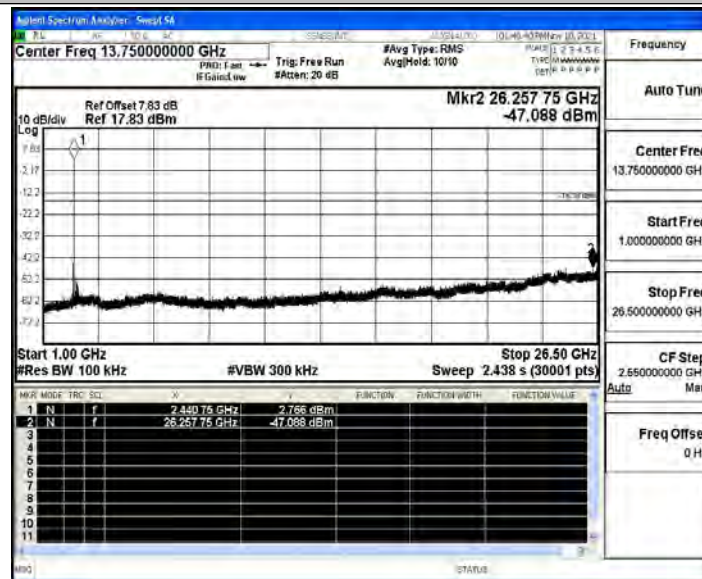


DH5_Ant1_2402_1000~26500

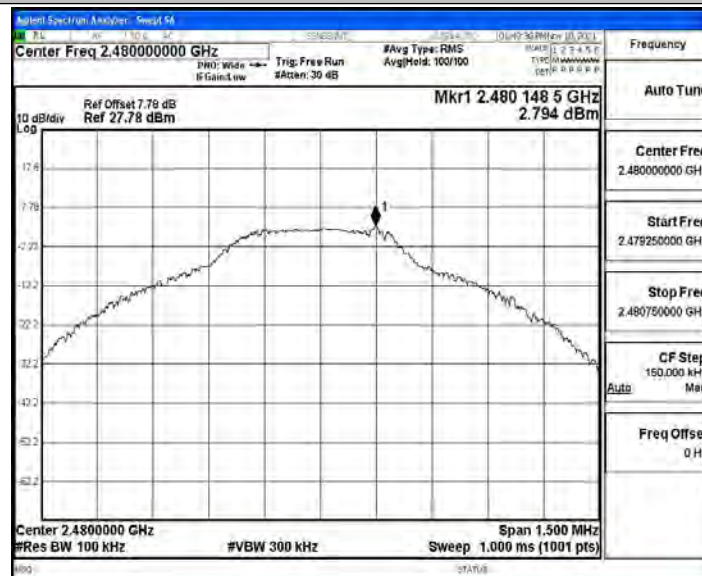




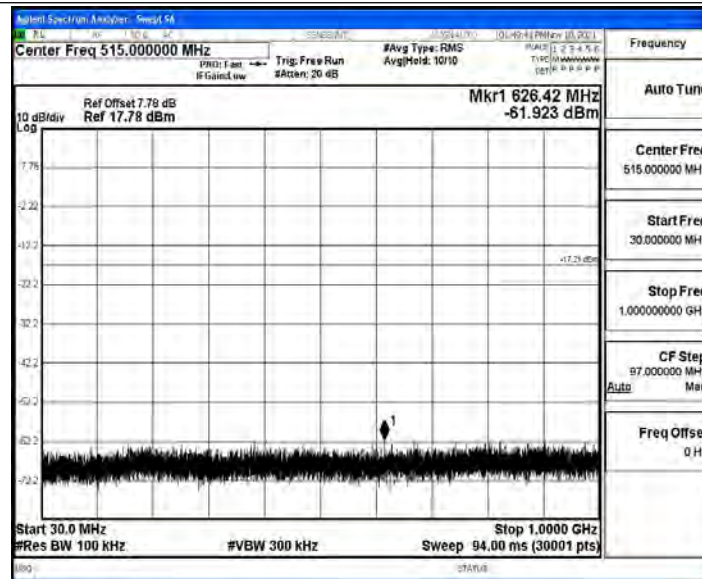
DH5_Ant1_2441_1000~26500



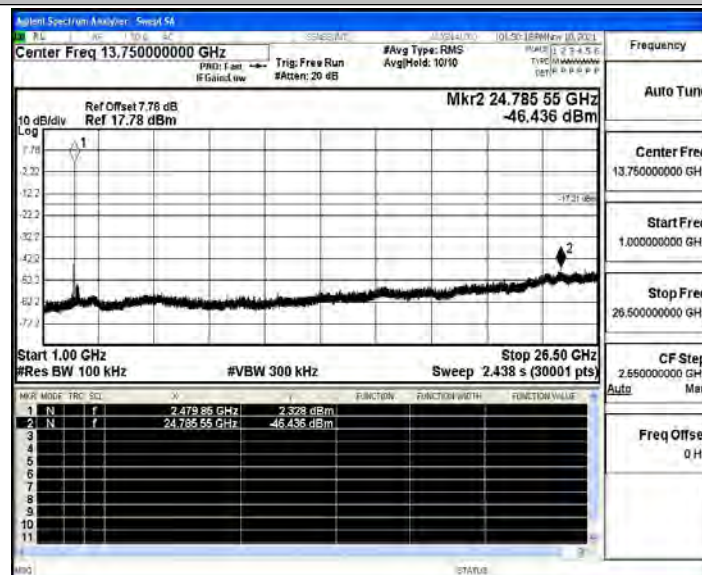
DH5_Ant1_2480_0~Reference



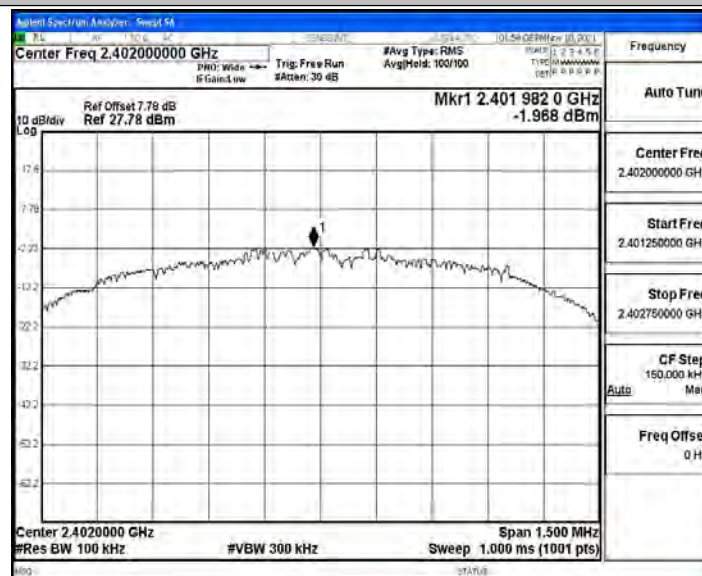
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

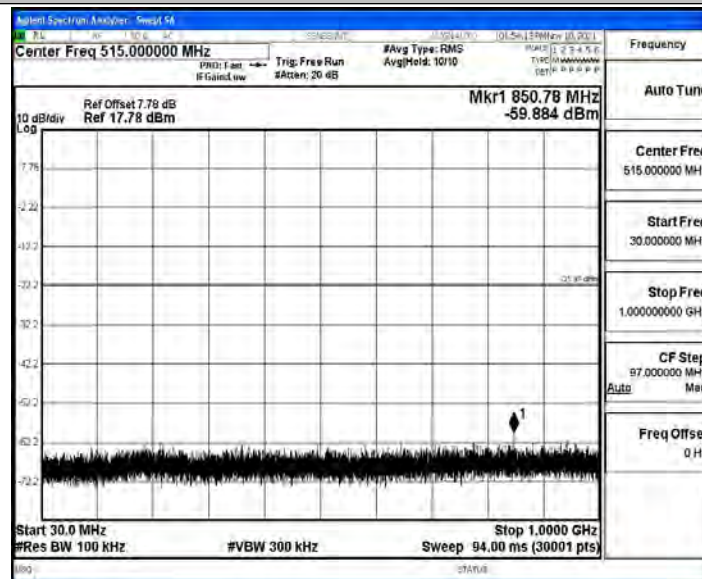


2DH5_Ant1_2402_0~Reference

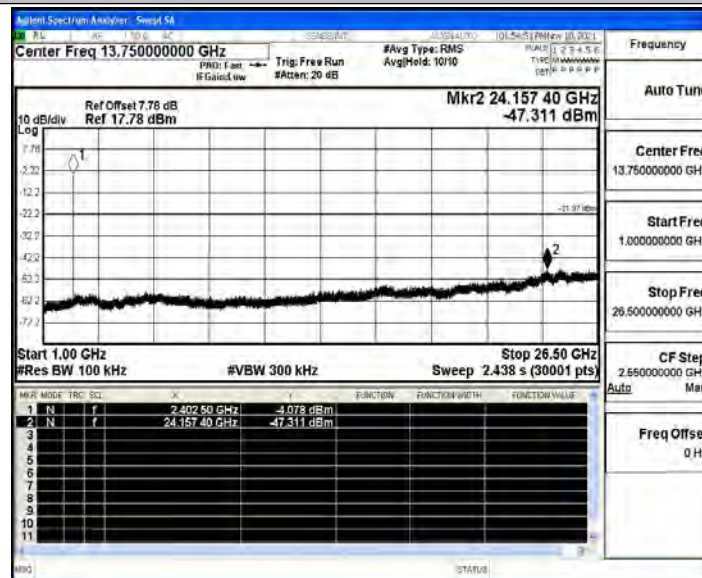




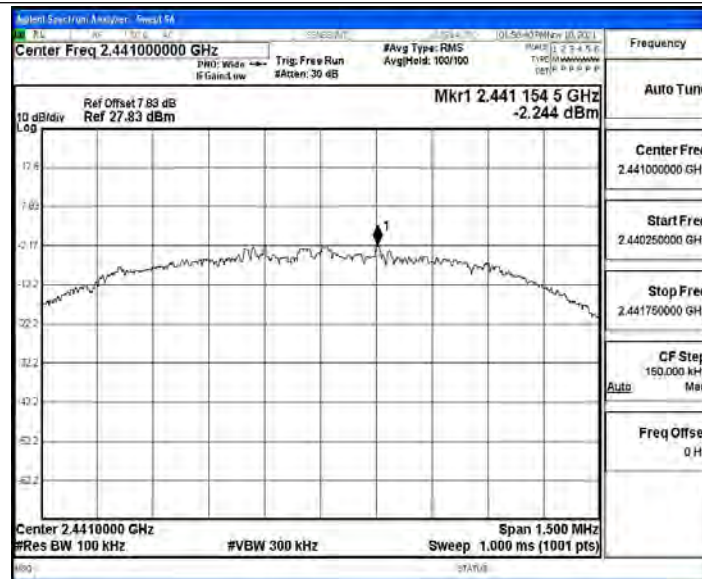
2DH5_Ant1_2402_30~1000



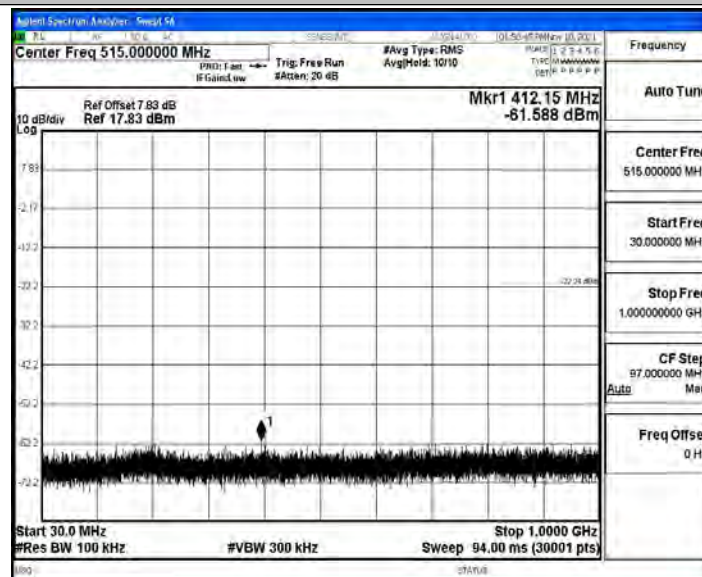
2DH5_Ant1_2402_1000~26500



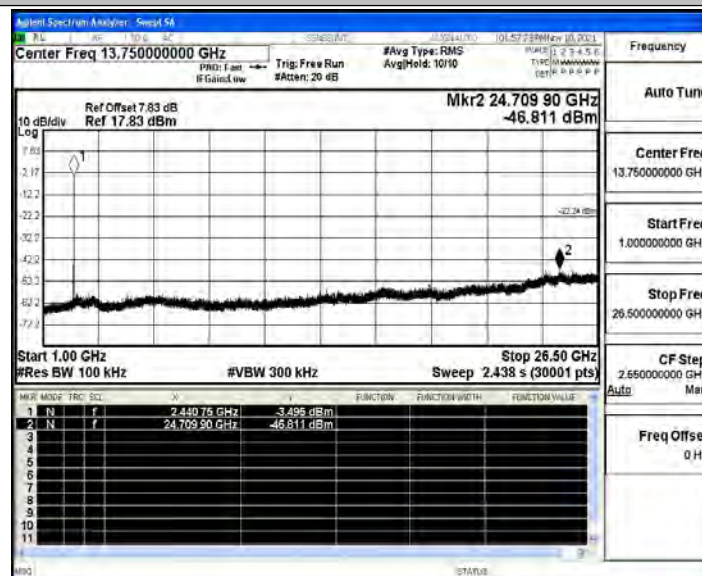
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

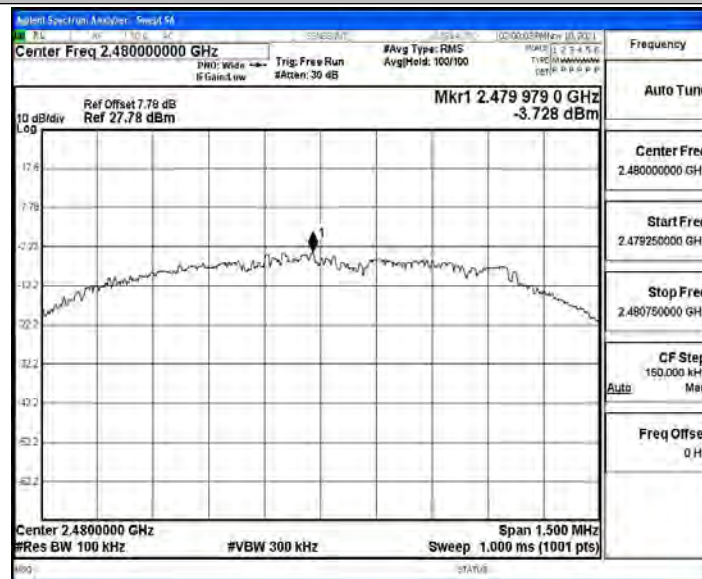


2DH5_Ant1_2441_1000~26500

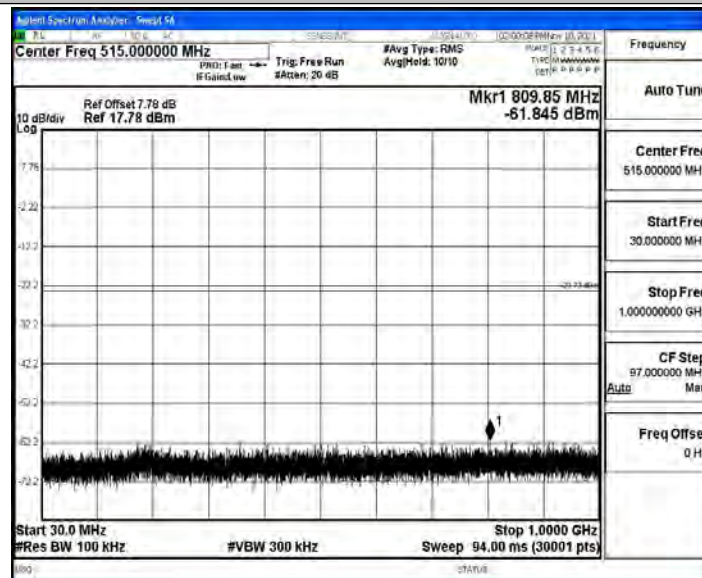




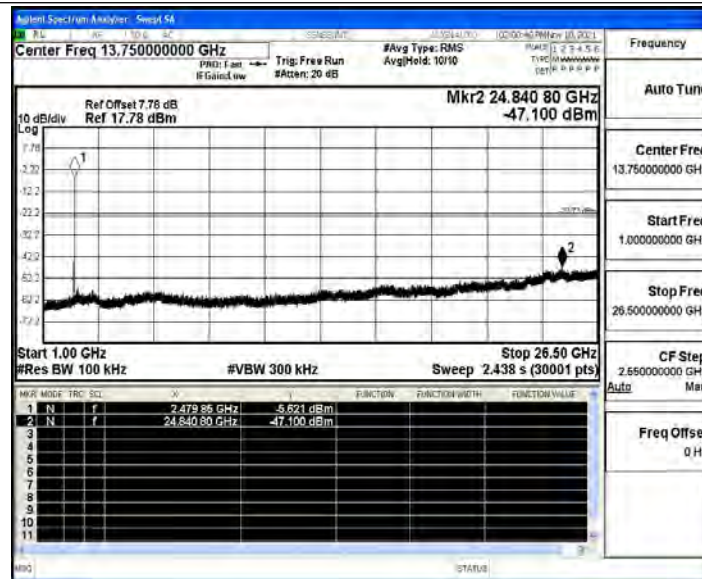
2DH5_Ant1_2480_0~Reference



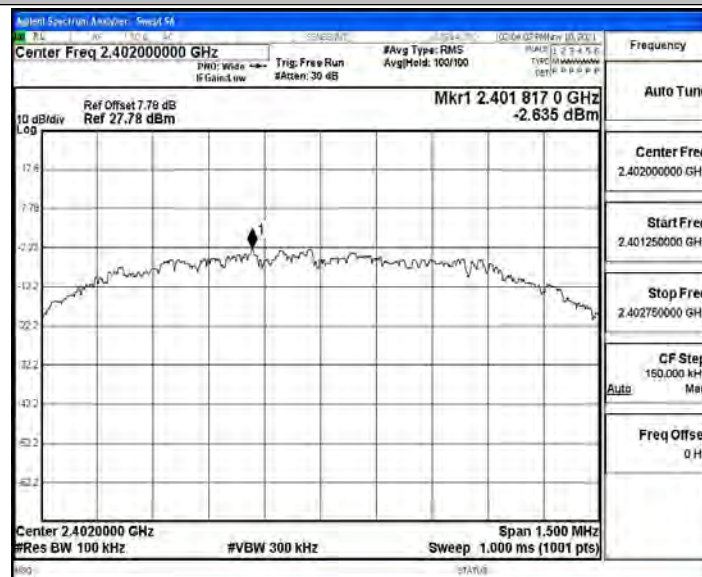
2DH5_Ant1_2480_30~1000



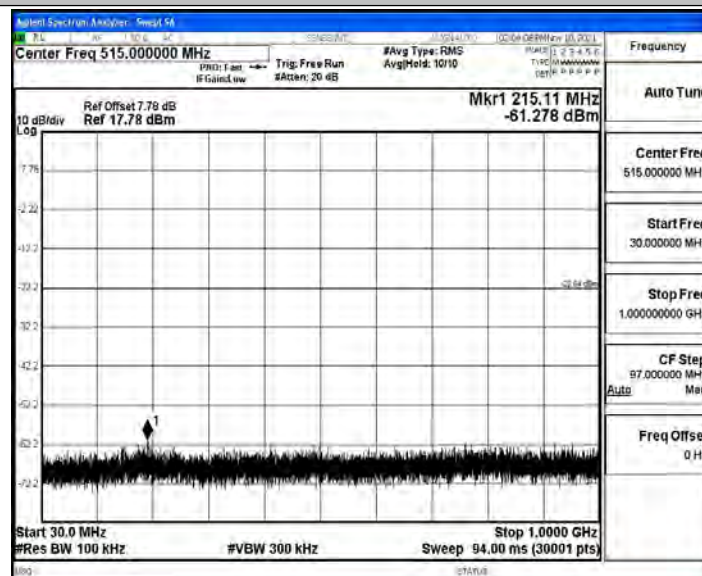
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

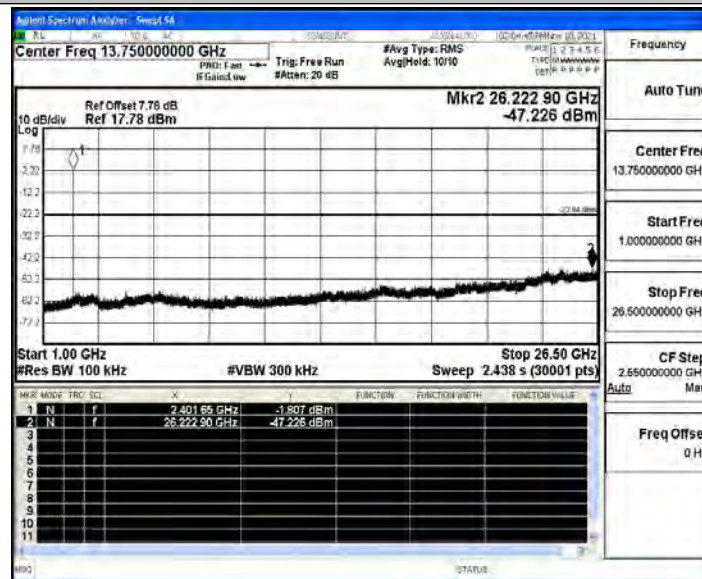


3DH5_Ant1_2402_30~1000

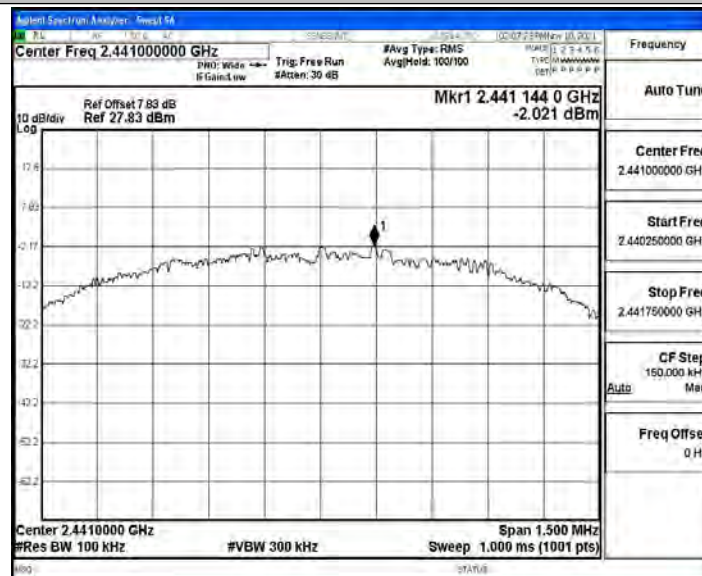




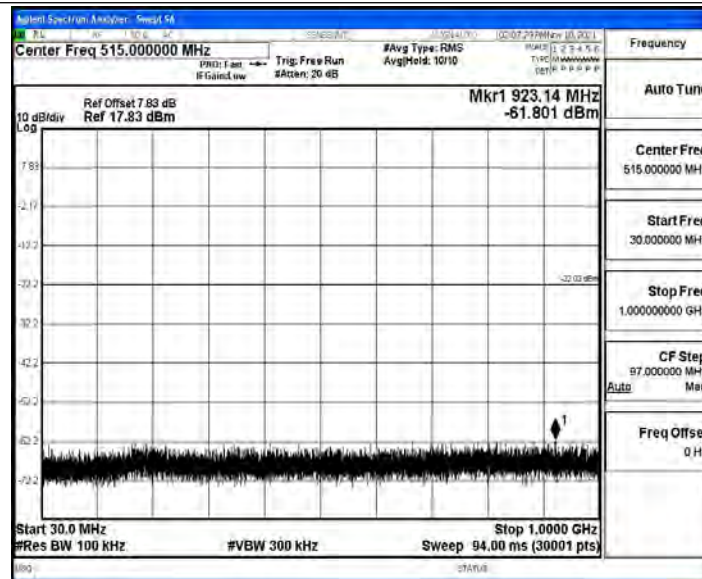
3DH5_Ant1_2402_1000~26500



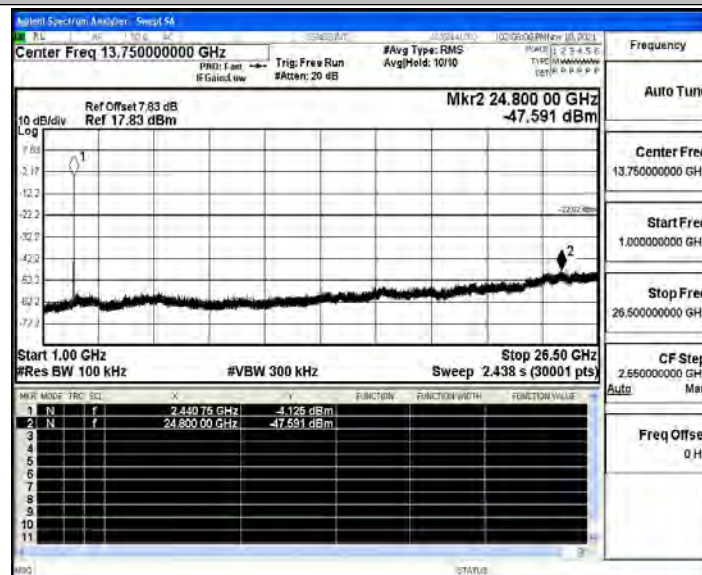
3DH5_Ant1_2441_0~Reference



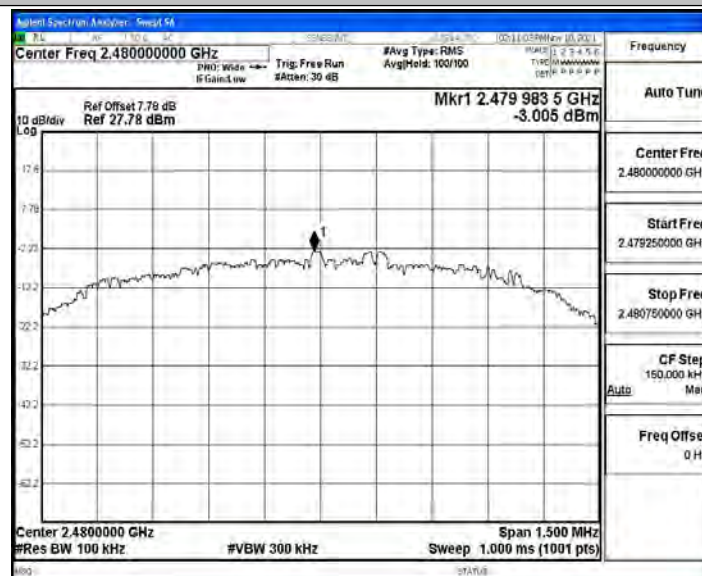
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

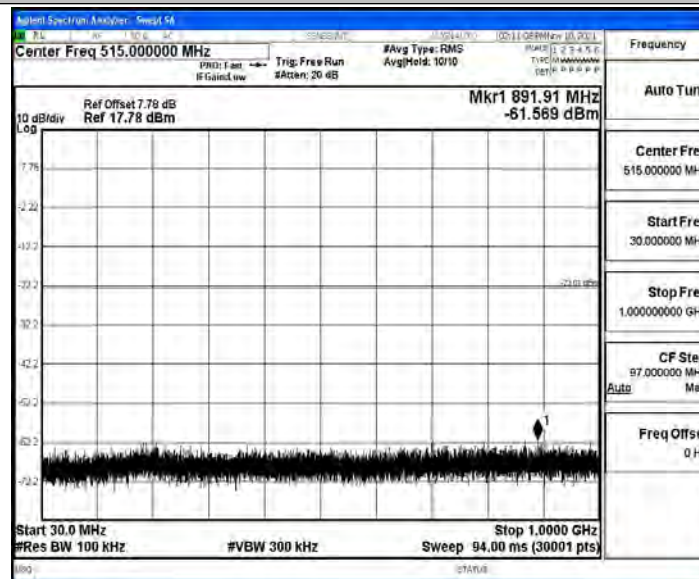


3DH5_Ant1_2480_0~Reference

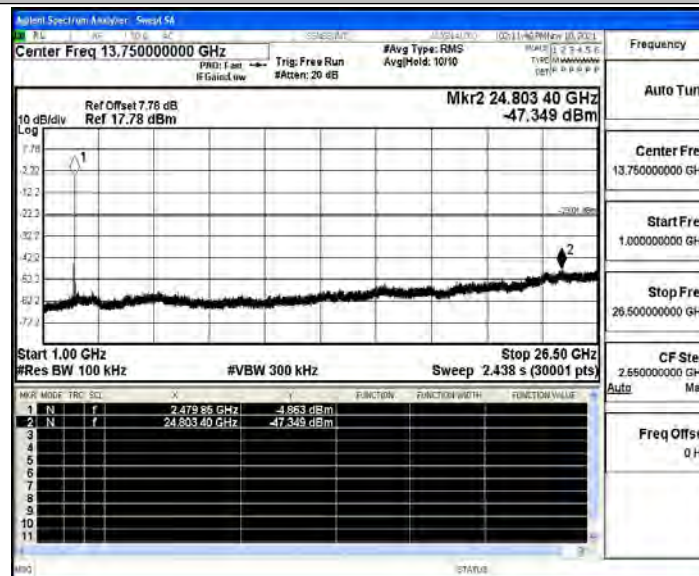




3DH5_Ant1_2480_30~1000



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	-49.13	≤-41.20	46.07	≤54	PASS
				AV	2385.155	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2390.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2310.000	-44.32	≤-21.20	50.88	≤74	PASS
				Peak	2357.750	-40.24	≤-21.20	54.96	≤74	PASS
				Peak	2390.000	-43.74	≤-21.20	51.46	≤74	PASS
		High	2480	AV	2483.500	-47.9	≤-41.20	47.30	≤54	PASS
				AV	2484.480	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2500.000	-48.2	≤-41.20	47.00	≤54	PASS
				Peak	2483.500	-42.49	≤-21.20	52.71	≤74	PASS
				Peak	2498.080	-39.93	≤-21.20	55.27	≤74	PASS
				Peak	2500.000	-42.15	≤-21.20	53.05	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.71	≤-21.20	54.49	≤74	PASS
				Peak	2375.285	-38.06	≤-21.20	57.14	≤74	PASS
				Peak	2390.000	-41.16	≤-21.20	54.04	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.31	≤-21.20	55.89	≤74	PASS
				Peak	2493.120	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	2500.000	-40.16	≤-21.20	55.04	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.18	≤-41.20	46.02	≤54	PASS
				AV	2377.385	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2390.000	-48.94	≤-41.20	46.26	≤54	PASS
				Peak	2310.000	-42.92	≤-21.20	52.28	≤74	PASS
				Peak	2319.425	-38.97	≤-21.20	56.23	≤74	PASS
				Peak	2390.000	-43.77	≤-21.20	51.43	≤74	PASS
		High	2480	AV	2483.500	-47.92	≤-41.20	47.28	≤54	PASS
				AV	2484.880	-46.89	≤-41.20	48.31	≤54	PASS
				AV	2500.000	-48.09	≤-41.20	47.11	≤54	PASS
				Peak	2483.500	-40.89	≤-21.20	54.31	≤74	PASS
				Peak	2492.080	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2500.000	-45.3	≤-21.20	49.90	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.2	≤-21.20	54.00	≤74	PASS
				Peak	2386.415	-37.99	≤-21.20	57.21	≤74	PASS
				Peak	2390.000	-39.51	≤-21.20	55.69	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.25	≤-21.20	54.95	≤74	PASS
				Peak	2495.840	-38.09	≤-21.20	57.11	≤74	PASS
				Peak	2500.000	-39.5	≤-21.20	55.70	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.14	≤-41.20	46.06	≤54	PASS



				AV	2372.870	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2390.000	-48.82	≤-41.20	46.38	≤54	PASS
				Peak	2310.000	-42.35	≤-21.20	52.85	≤74	PASS
				Peak	2363.945	-39.06	≤-21.20	56.14	≤74	PASS
				Peak	2390.000	-43.59	≤-21.20	51.61	≤74	PASS
		High	2480	AV	2483.500	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2485.040	-47.02	≤-41.20	48.18	≤54	PASS
				AV	2500.000	-48.24	≤-41.20	46.96	≤54	PASS
				Peak	2483.500	-42.01	≤-21.20	53.19	≤74	PASS
				Peak	2496.400	-39.67	≤-21.20	55.53	≤74	PASS
				Peak	2500.000	-43.7	≤-21.20	51.50	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.05	≤-21.20	54.15	≤74	PASS
				Peak	2324.045	-38.14	≤-21.20	57.06	≤74	PASS
				Peak	2390.000	-41.14	≤-21.20	54.06	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	2497.440	-36.77	≤-21.20	58.43	≤74	PASS
				Peak	2500.000	-39.66	≤-21.20	55.54	≤74	PASS

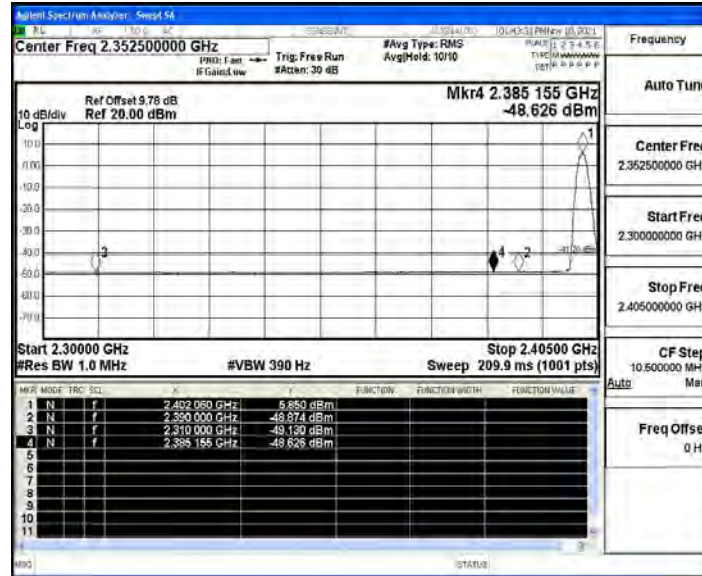
Note:

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.

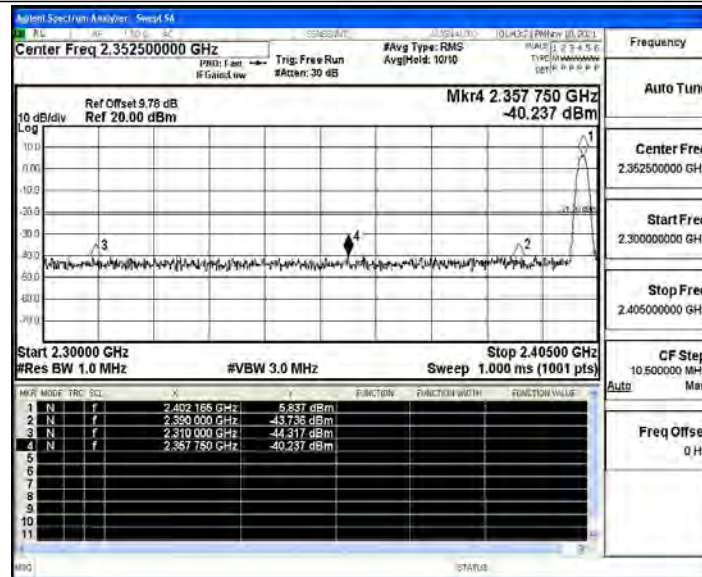


Test Graphs

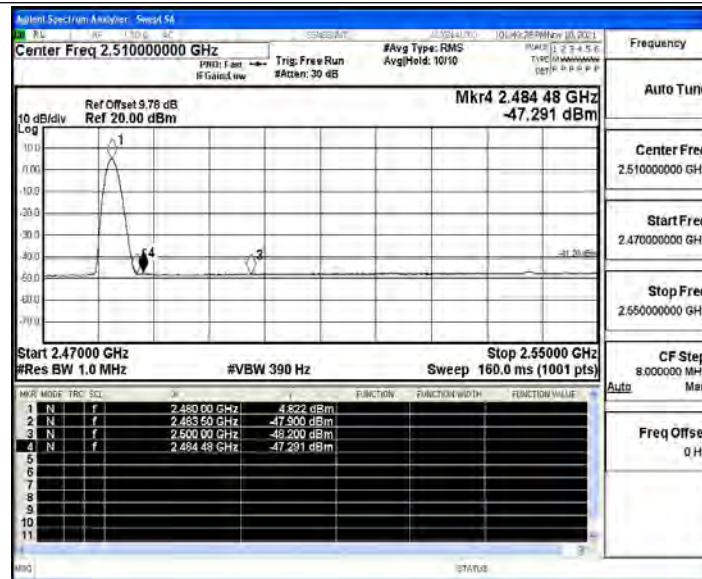
DH5_Ant1_Low_2402_AV



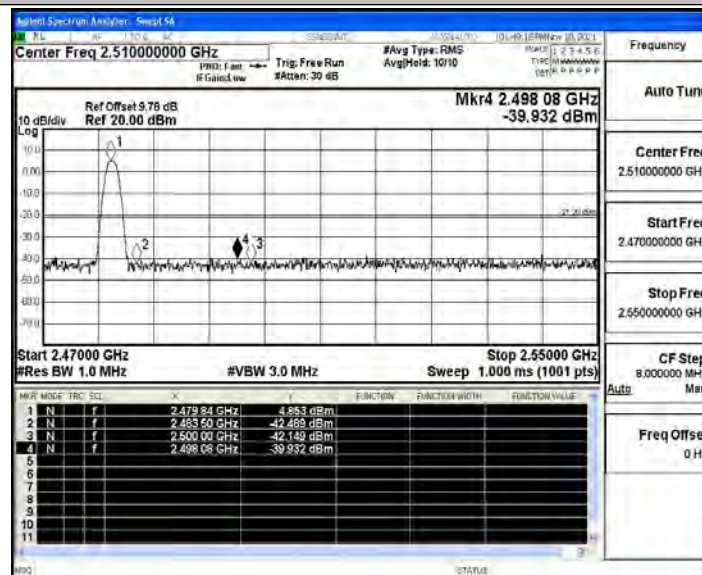
DH5_Ant1_Low_2402_Peak



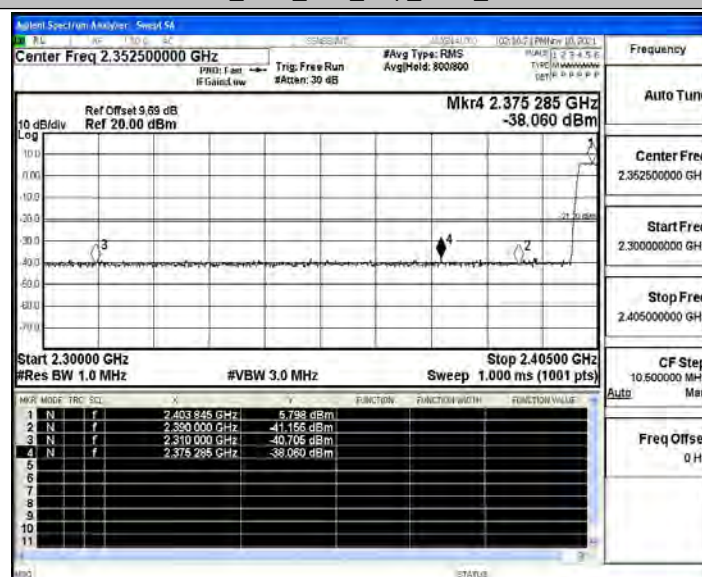
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

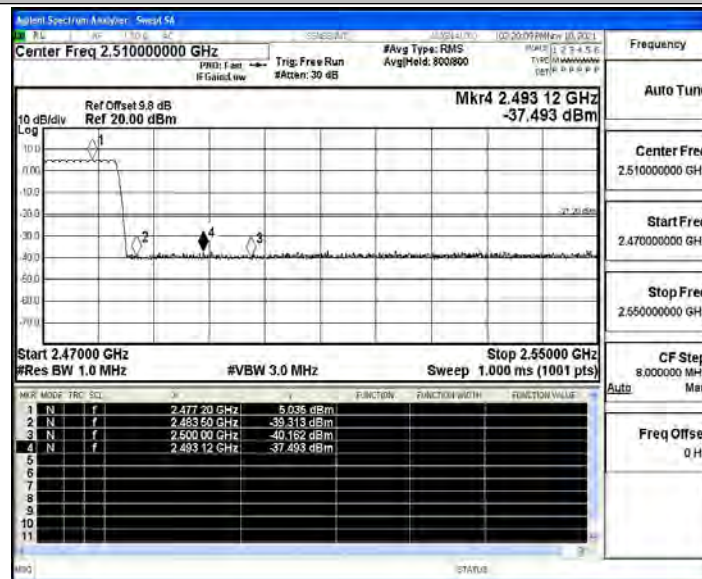


DH5_Ant1_Low_Hop_2402_Peak

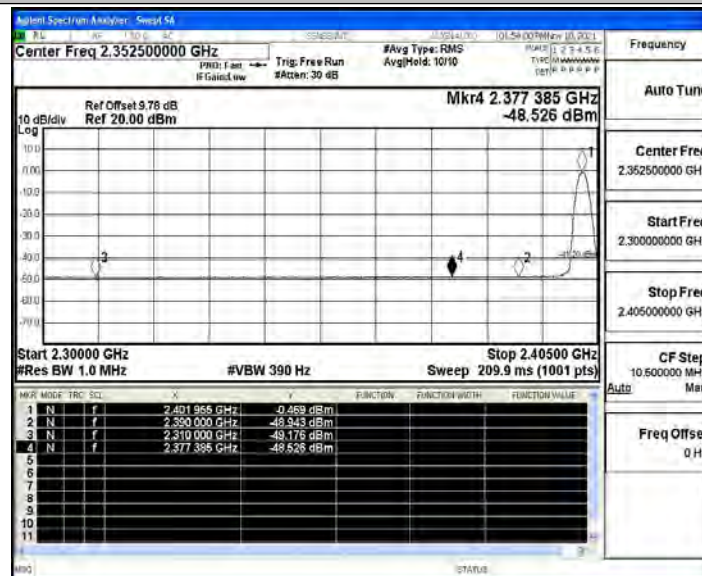




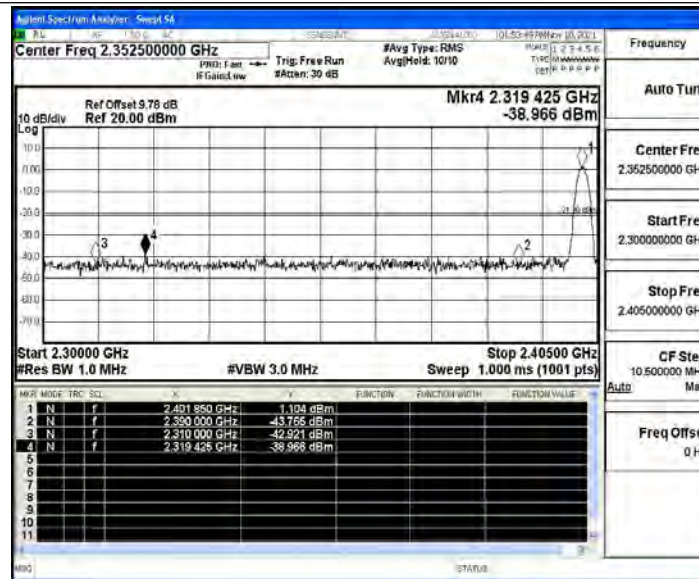
DH5_Ant1_High_Hop_2480_Peak



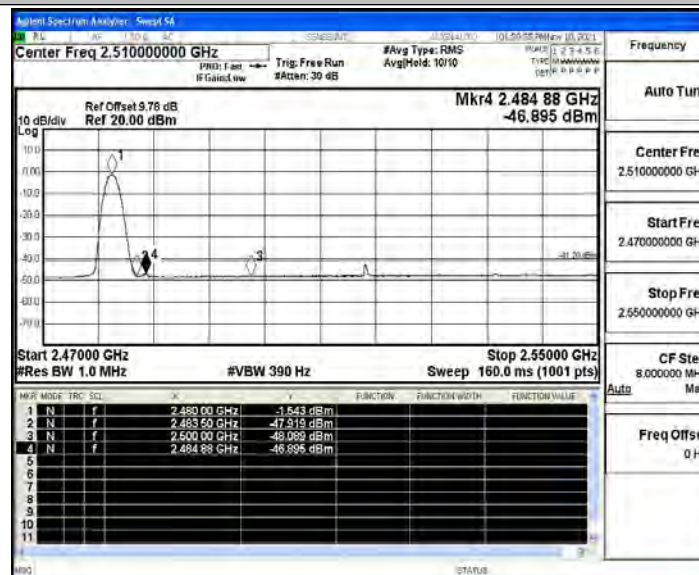
2DH5_Ant1_Low_2402_AV



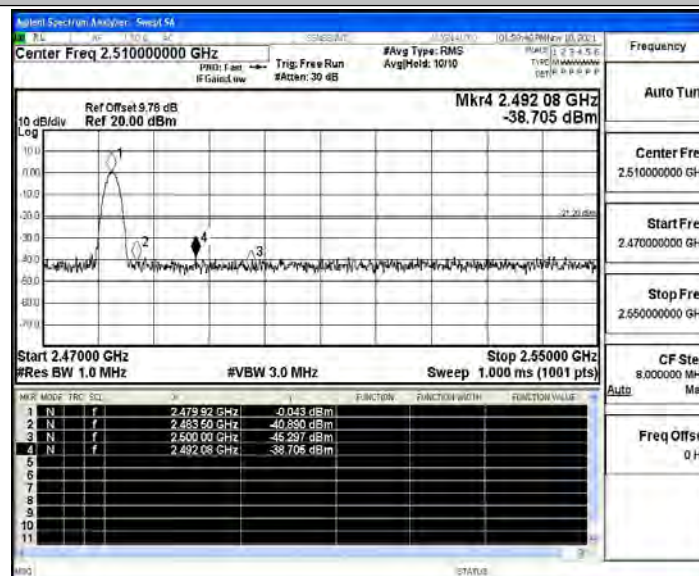
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2DH5_Ant1_High_2480_AV

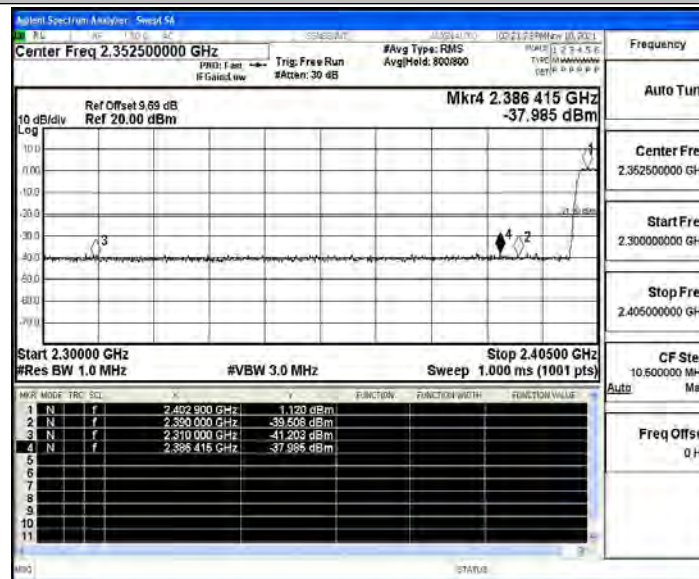


2DH5_Ant1_High_2480_Peak

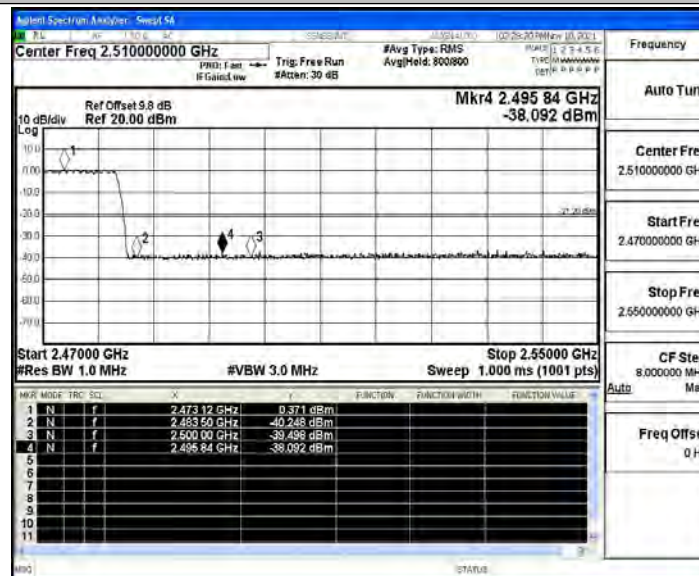




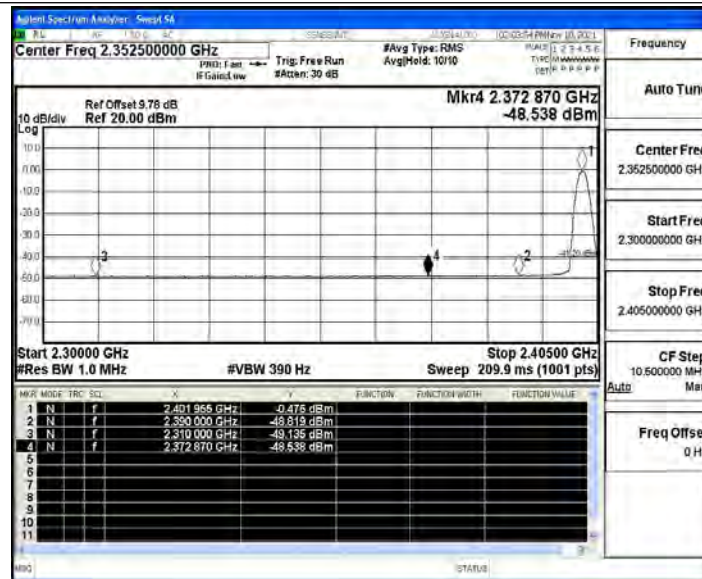
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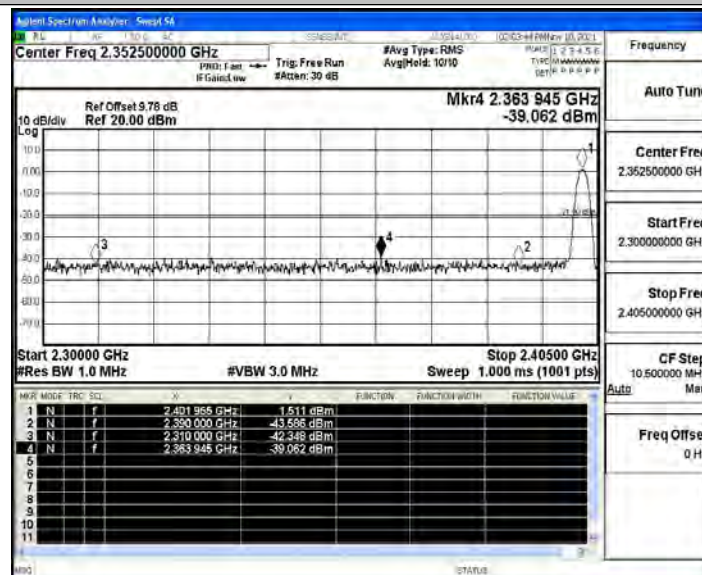
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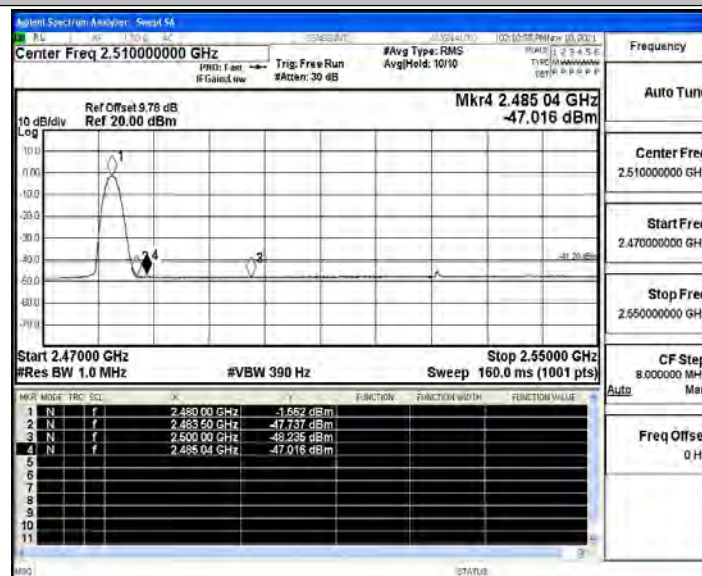
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak

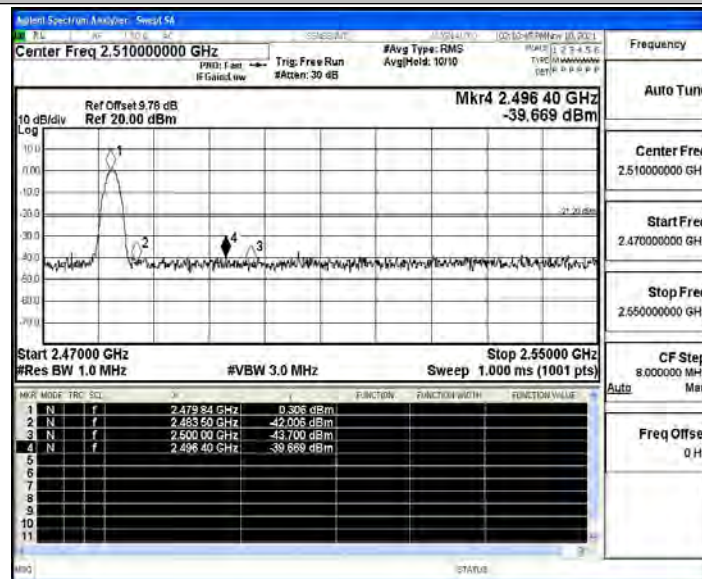


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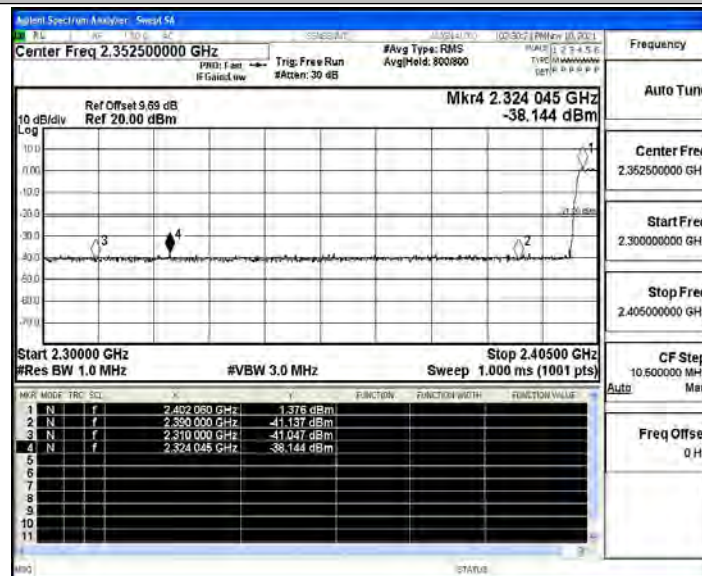




3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak

