



Appendix A

RF Test Data for BT (Conducted Measurement)

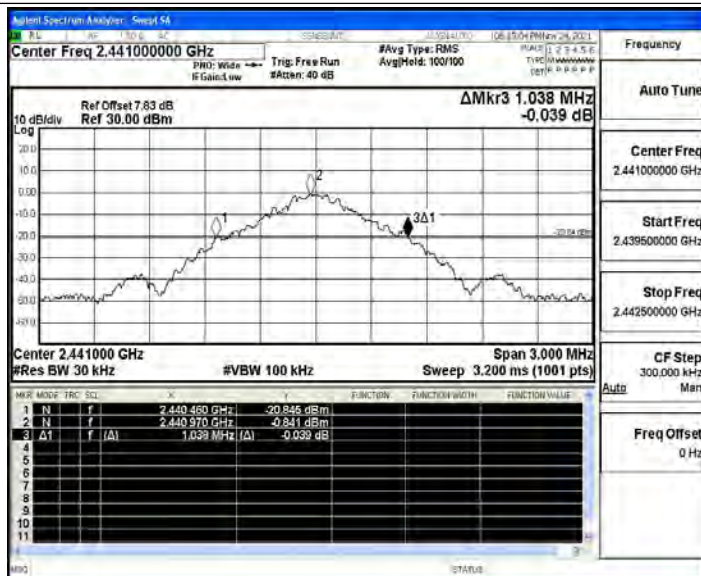
Product Name: Car audio

Test Model: SBB-75136

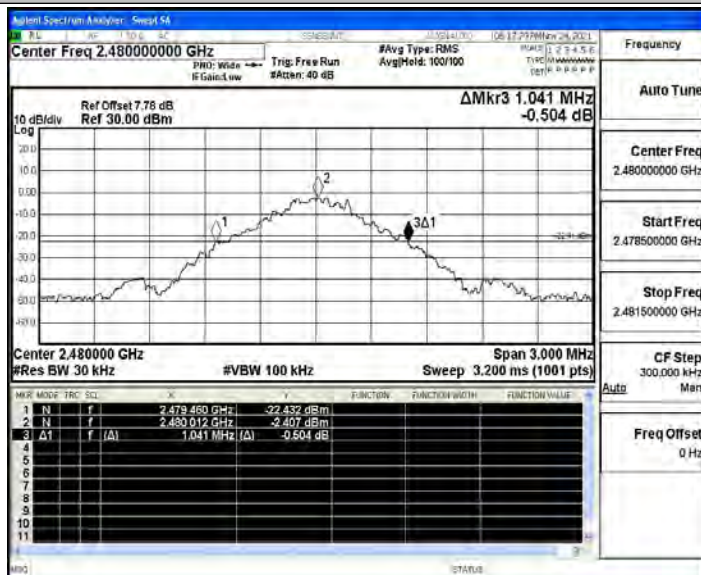
Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li huan

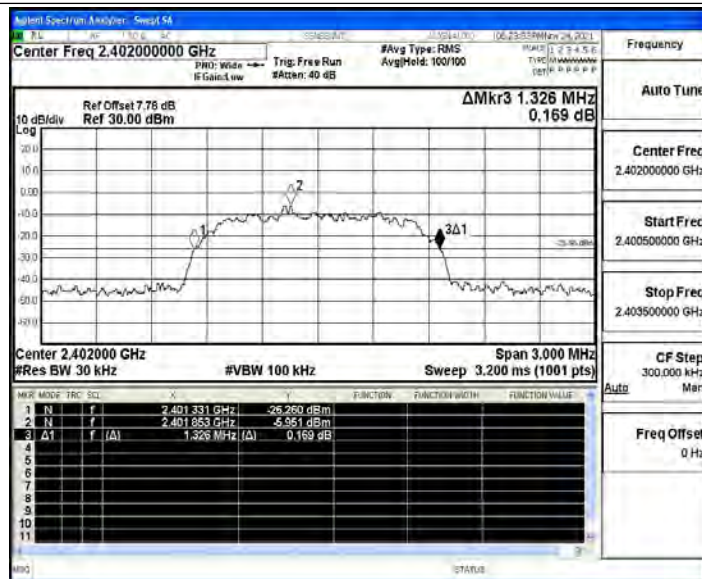




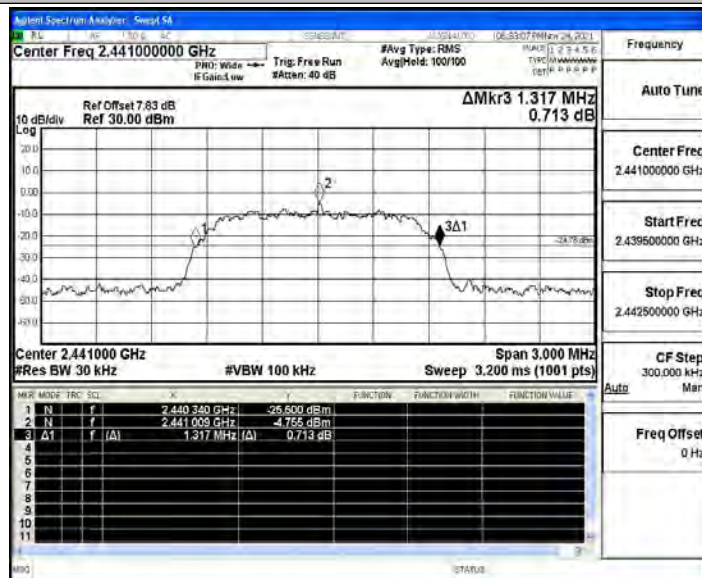
DH5_Ant1_2480



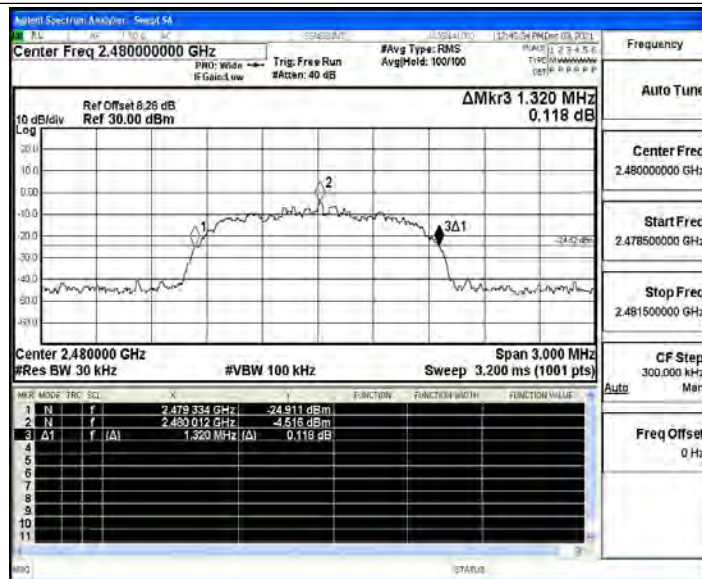
2DH5_Ant1_2402



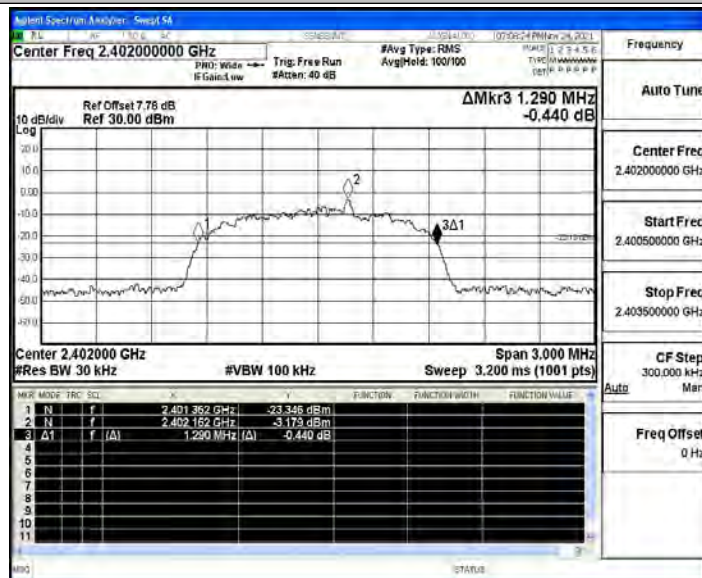
2DH5_Ant1_2441



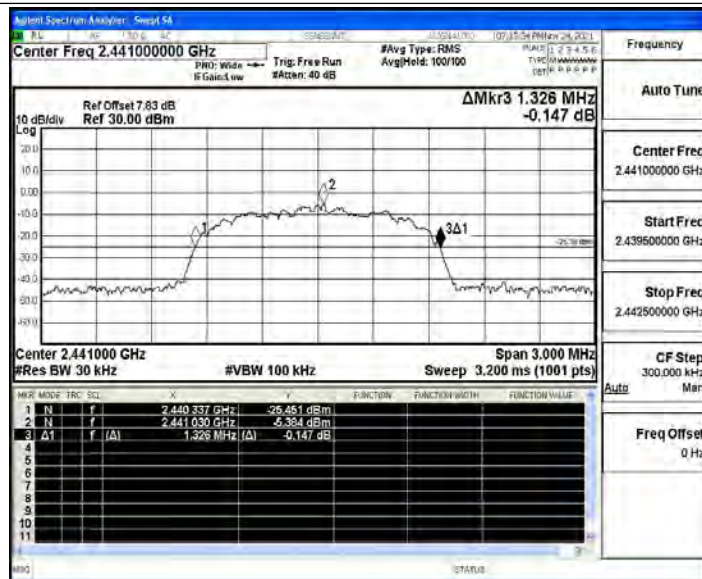
2DH5_Ant1_2480



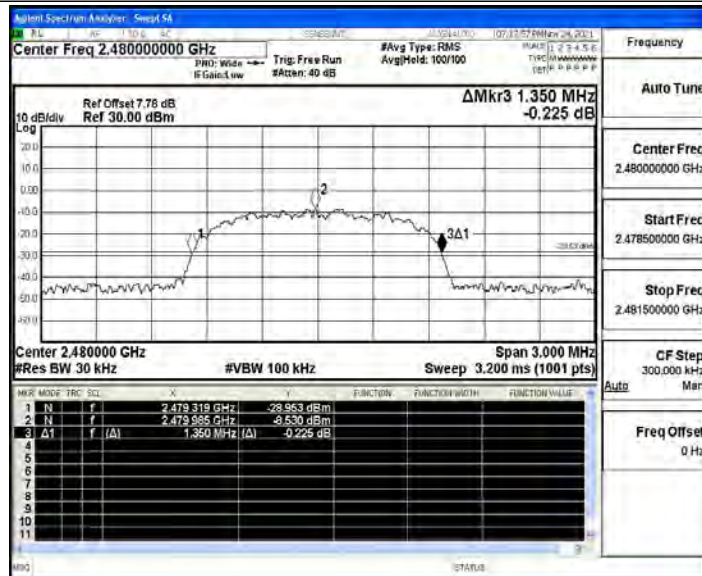
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



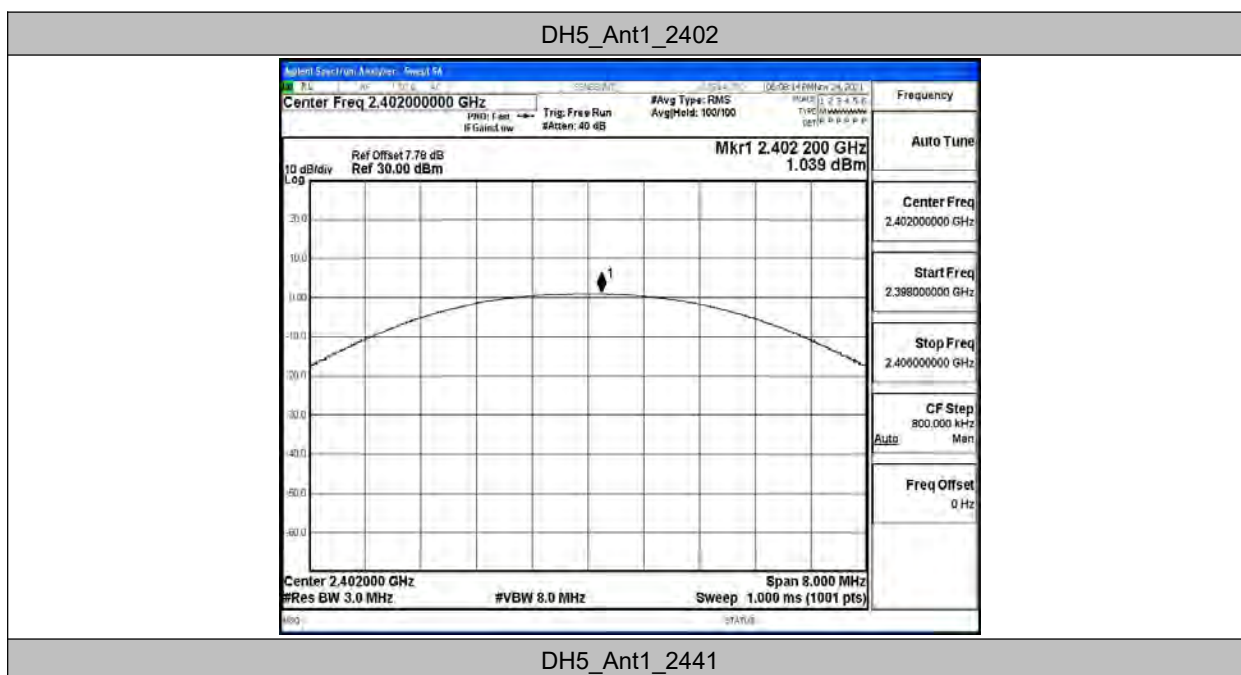


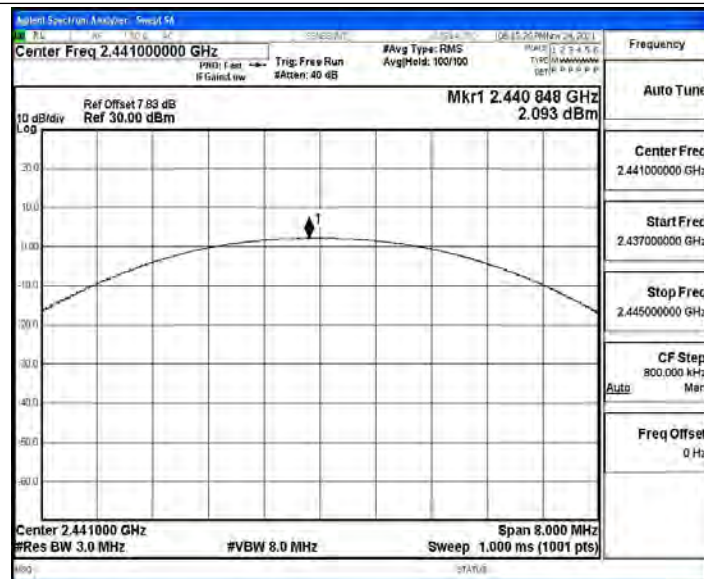
A.2 Maximum conducted output power

Test Result

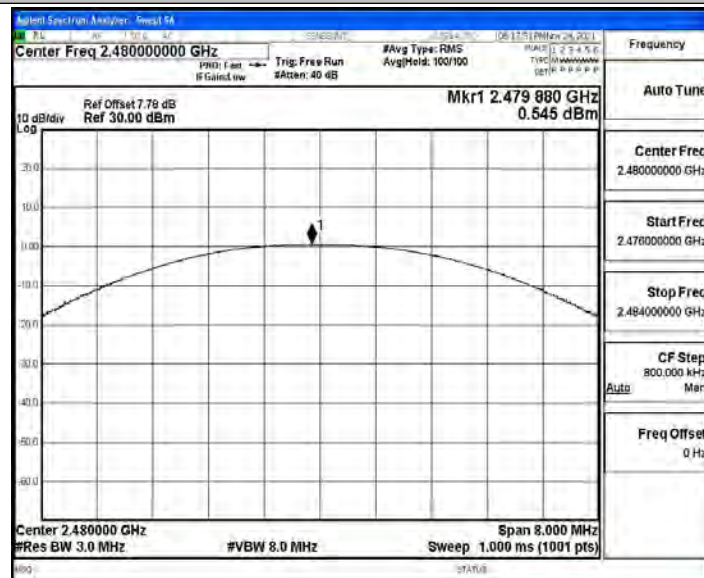
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.04	≤20.97	PASS
		2441	2.09	≤20.97	PASS
		2480	0.55	≤20.97	PASS
2DH5	Ant1	2402	0.11	≤20.97	PASS
		2441	1.25	≤20.97	PASS
		2480	0.19	≤20.97	PASS
3DH5	Ant1	2402	0.26	≤20.97	PASS
		2441	1.38	≤20.97	PASS
		2480	-0.1	≤20.97	PASS

Test Graphs

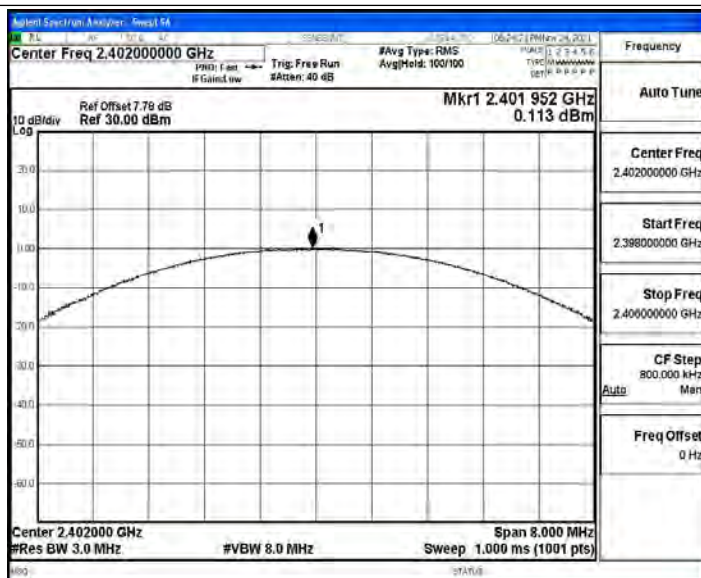




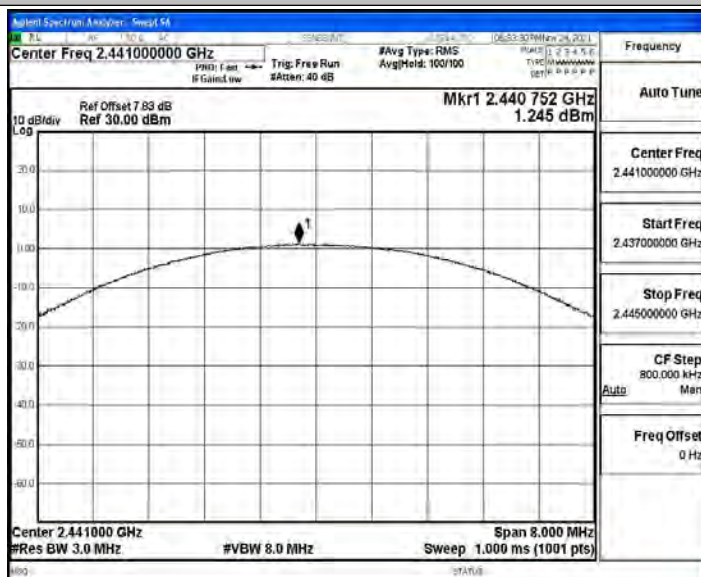
DH5_Ant1_2480



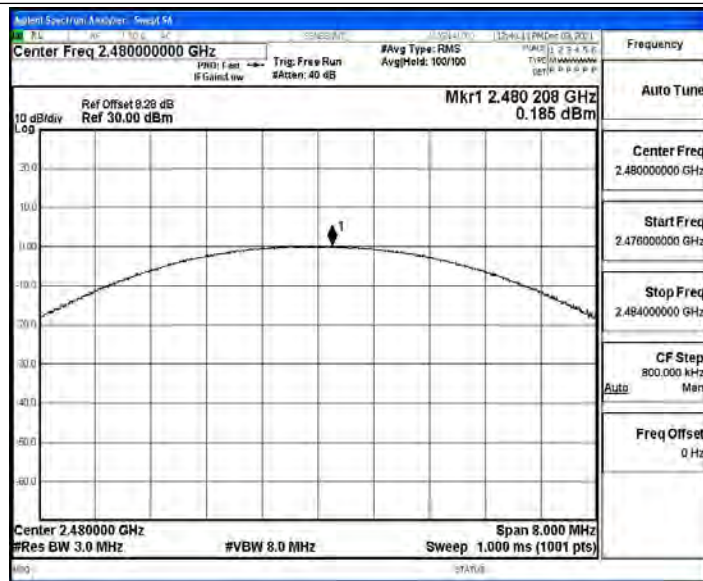
2DH5_Ant1_2402



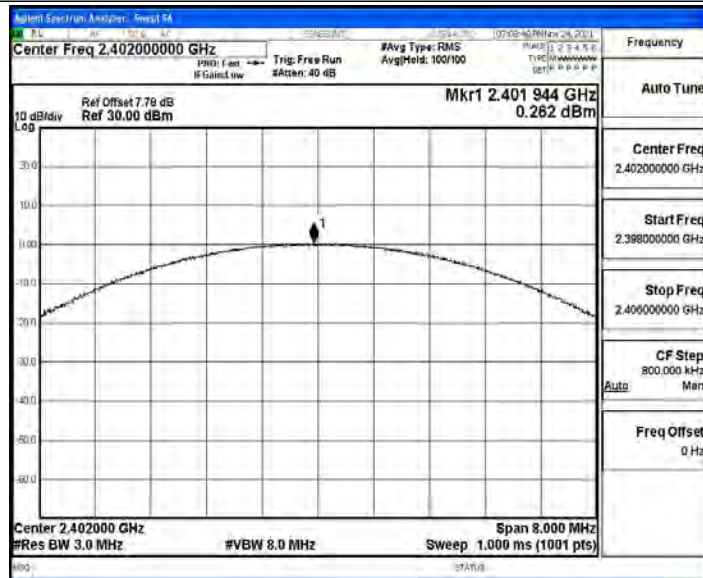
2DH5_Ant1_2441



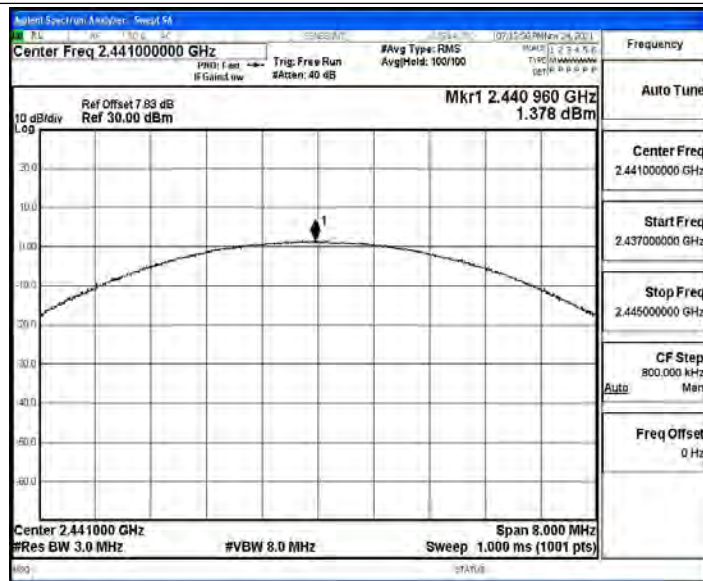
2DH5_Ant1_2480



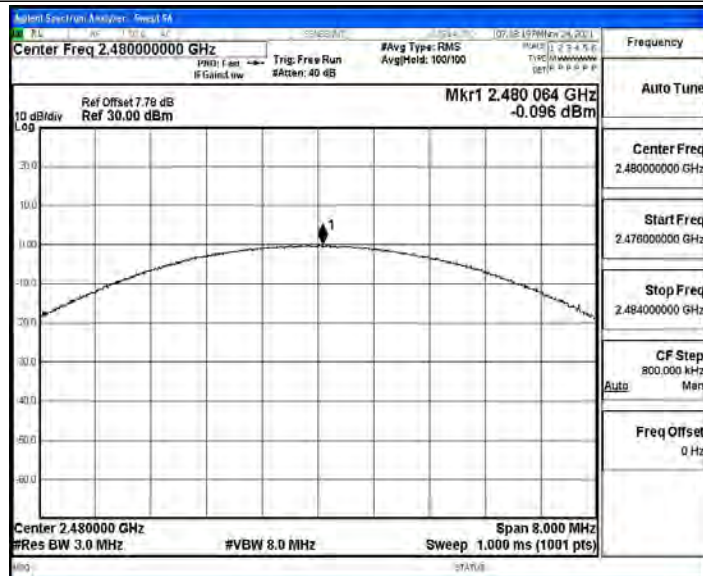
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





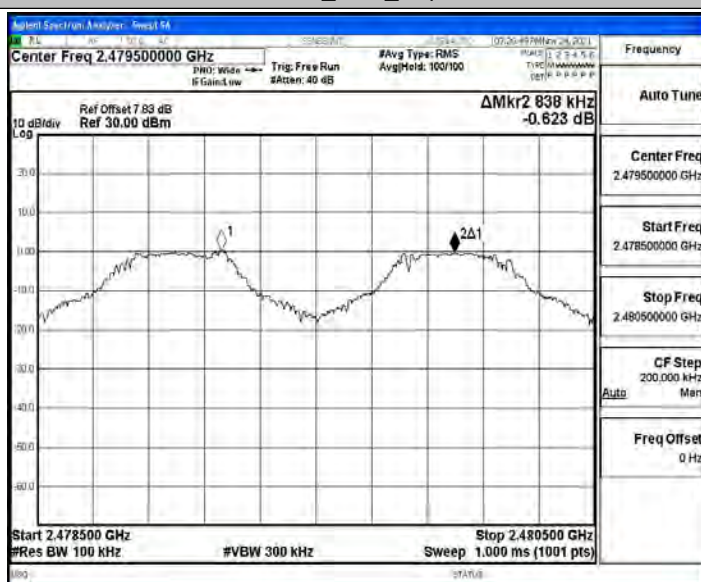
A.3 Carrier frequency separation

Test Result

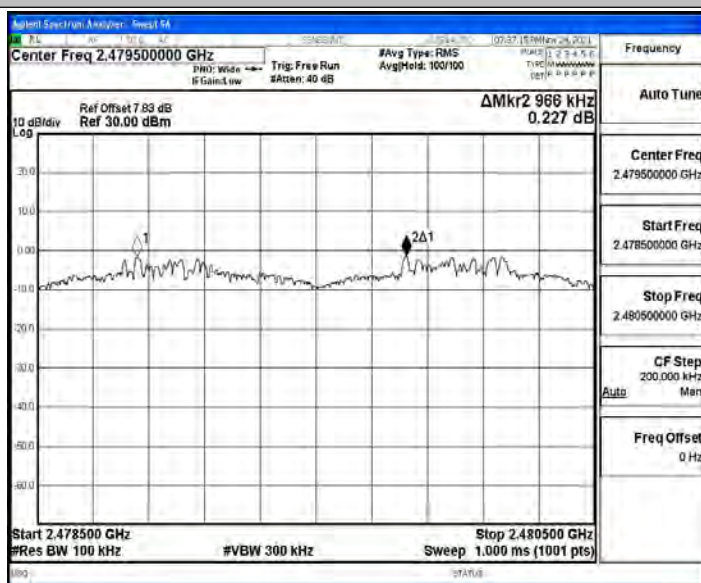
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.838	≥0.694	PASS
2DH5	Ant1	Hop	0.966	≥0.884	PASS
3DH5	Ant1	Hop	1.31	≥0.900	PASS

Test Graphs

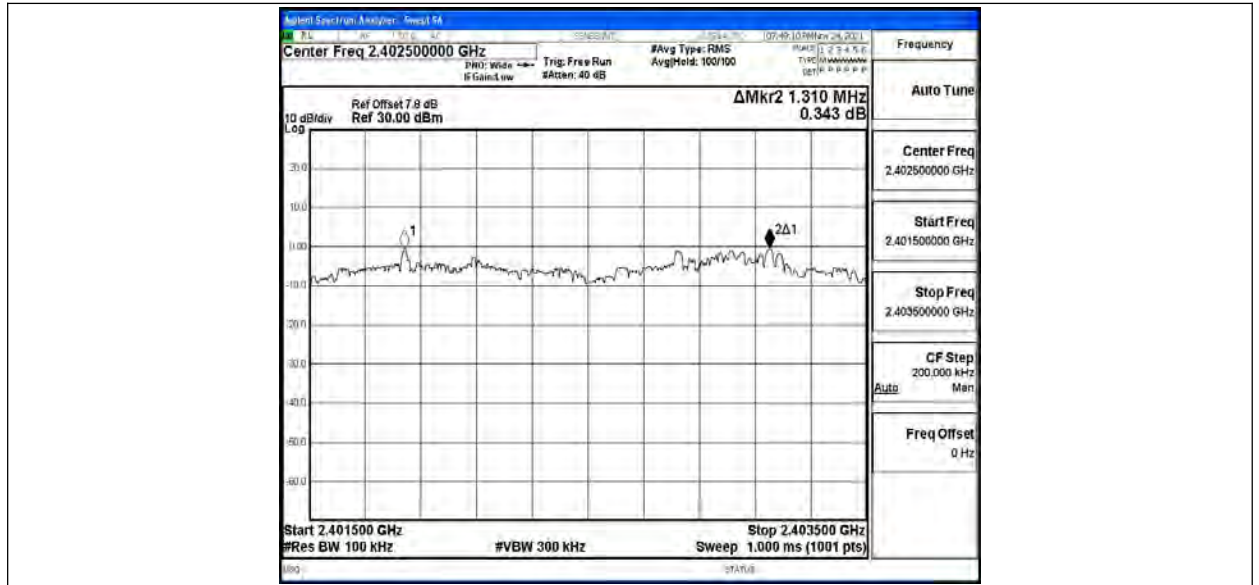
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



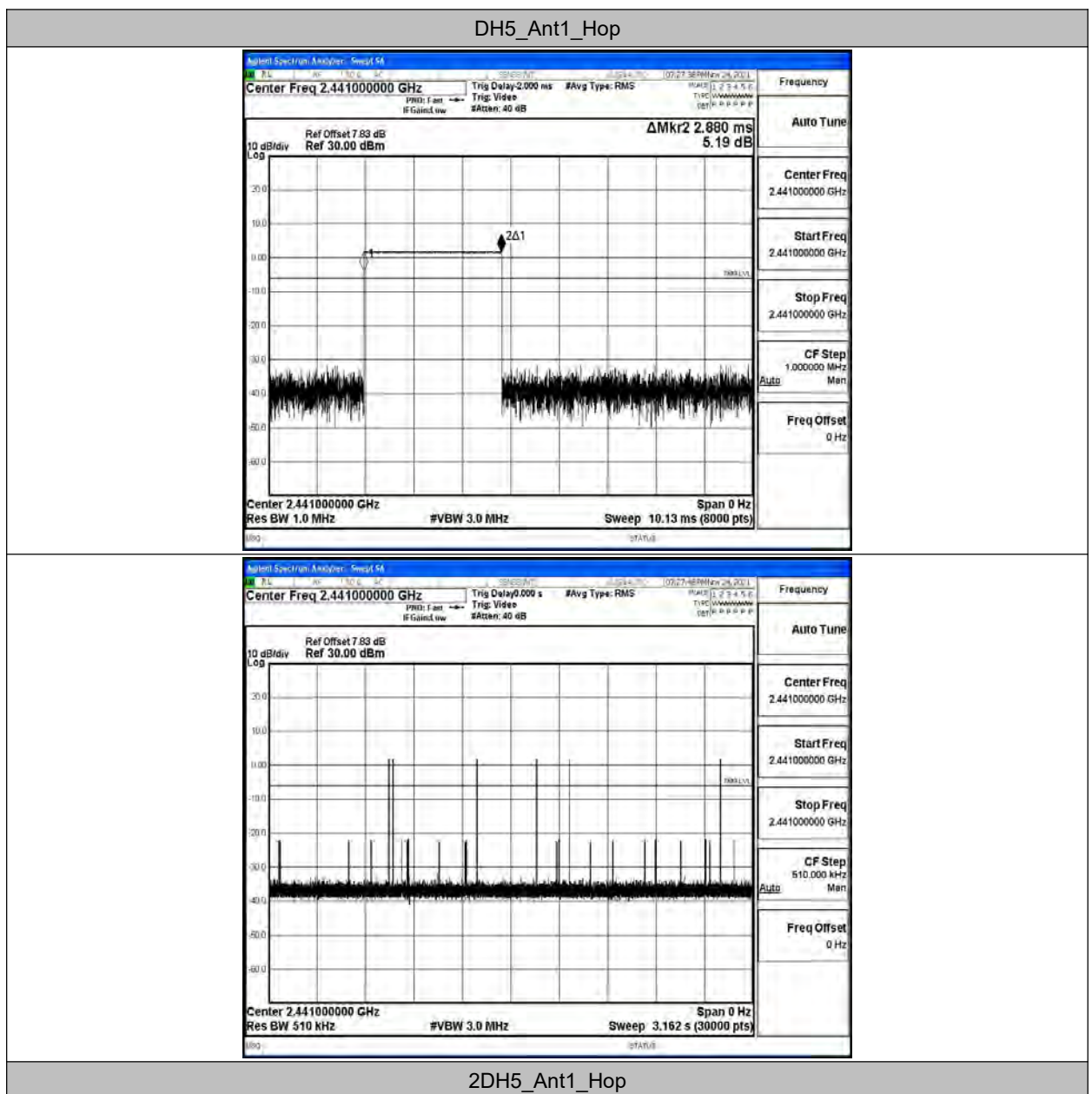


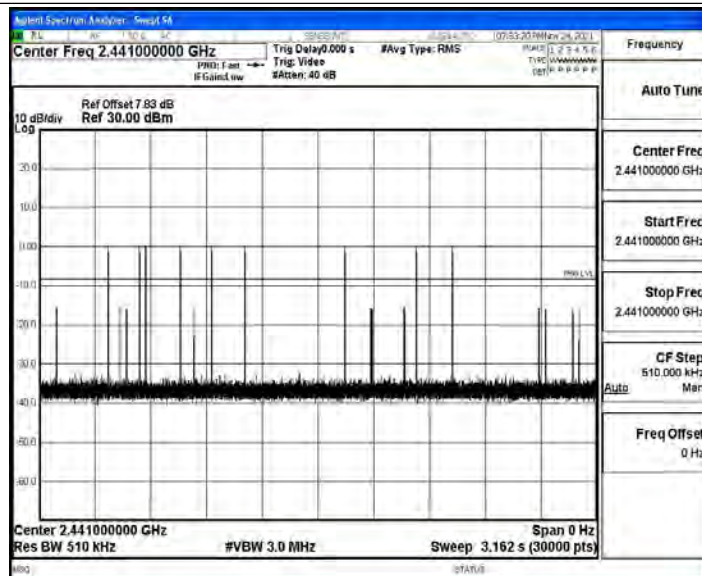
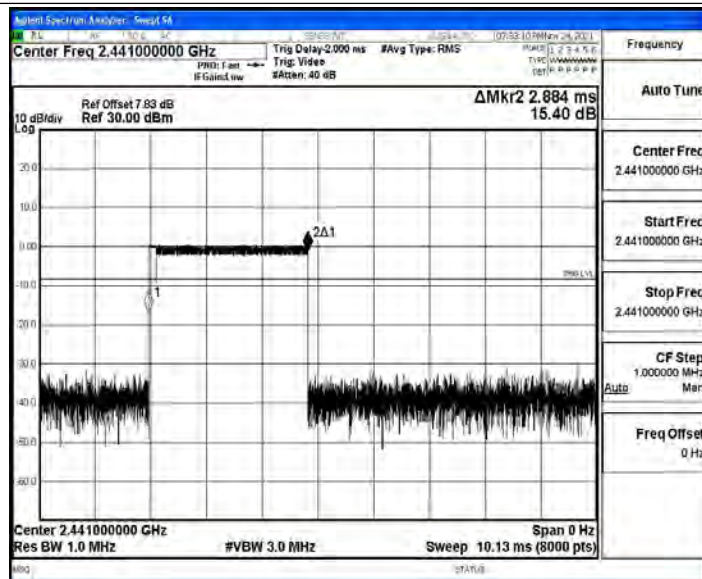
A.4 Time of occupancy

Test Result

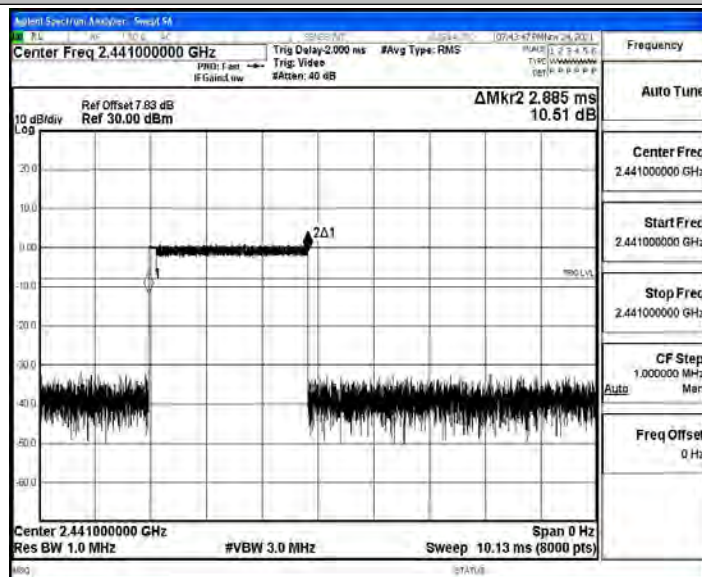
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	80	0.23	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.89	80	0.231	≤0.4	PASS

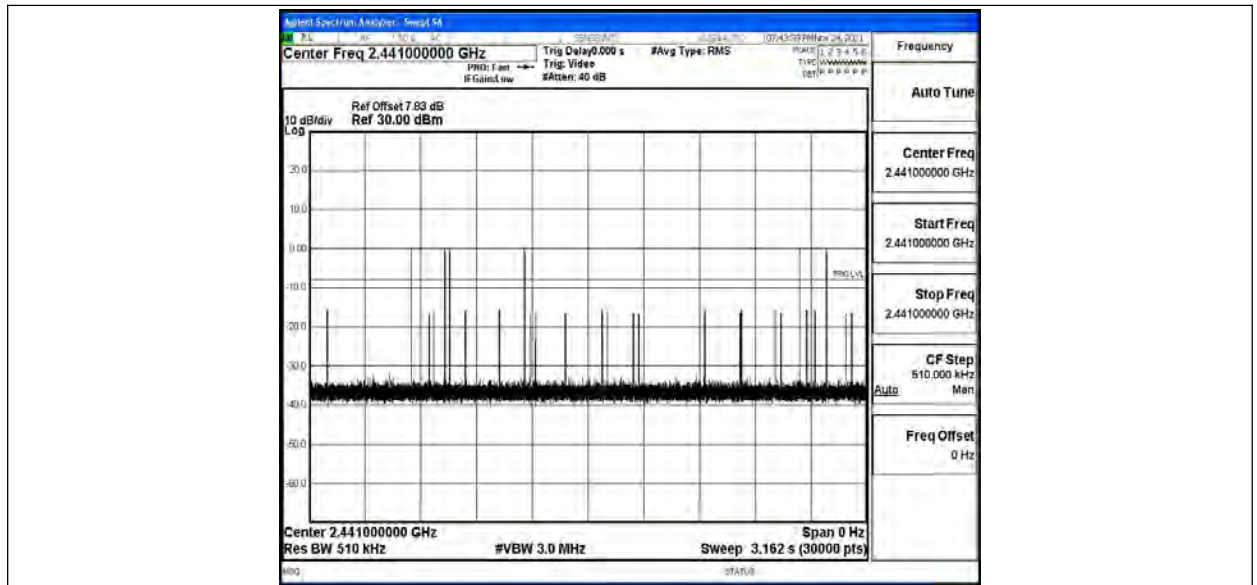
Test Graphs





3DH5_Ant1_Hop







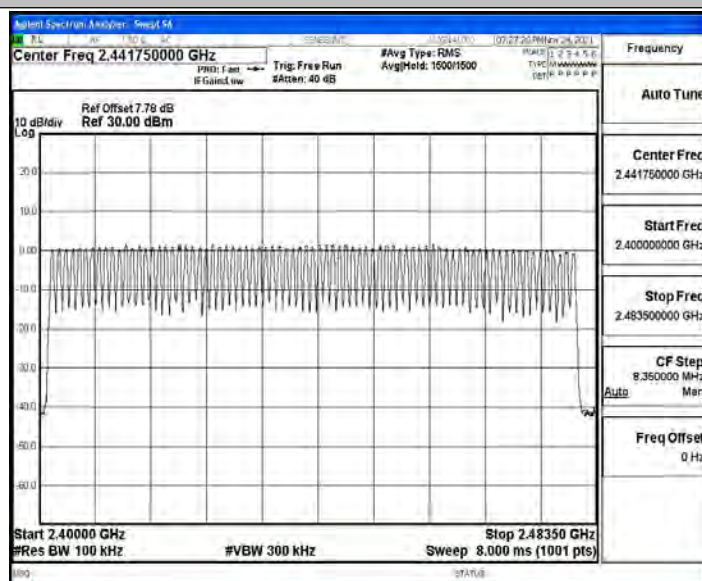
A.5 Number of hopping channels

Test Result

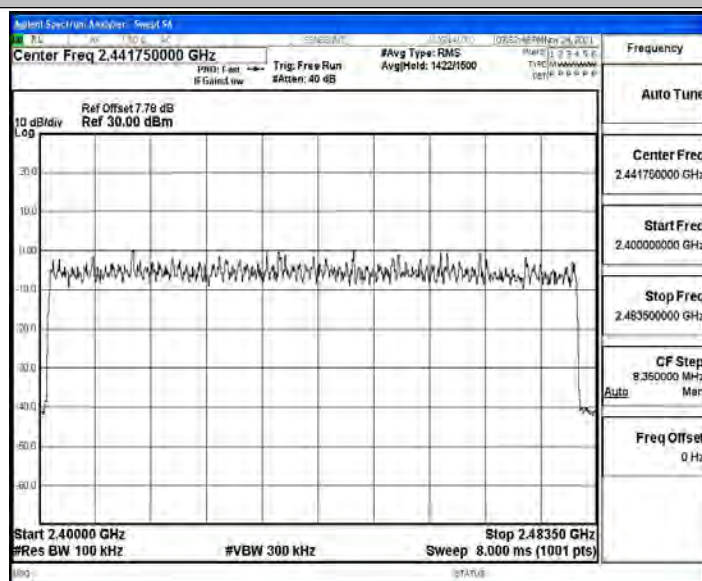
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

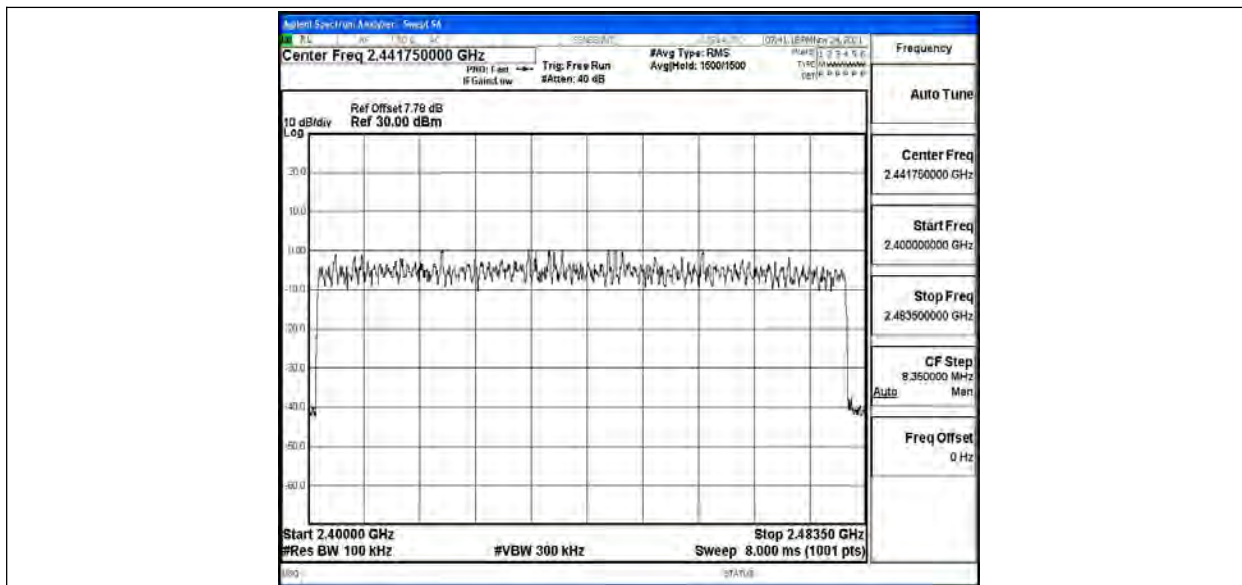
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

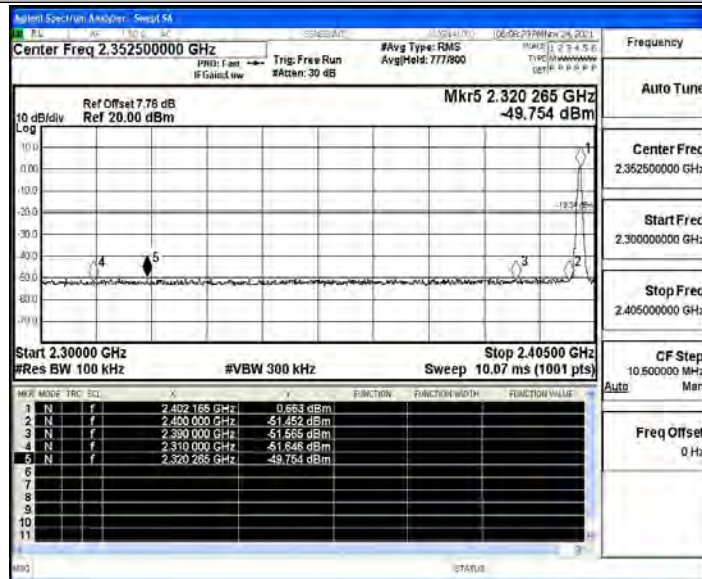
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.66	-49.75	≤ -19.34	PASS
		High	2480	0.11	-49.04	≤ -19.89	PASS
		Low	Hop_2402	0.37	-48.95	≤ -19.63	PASS
		High	Hop_2480	0.60	-48.02	≤ -19.4	PASS
2DH5	Ant1	Low	2402	-0.85	-49.83	≤ -20.85	PASS
		High	2480	-0.87	-47.24	≤ -20.87	PASS
		Low	Hop_2402	-3.31	-50.27	≤ -23.31	PASS
		High	Hop_2480	-1.65	-48.61	≤ -21.65	PASS
3DH5	Ant1	Low	2402	-3.83	-49.32	≤ -23.83	PASS
		High	2480	-1.21	-48.58	≤ -21.21	PASS
		Low	Hop_2402	-3.57	-49.34	≤ -23.57	PASS
		High	Hop_2480	-3.67	-49.09	≤ -23.67	PASS

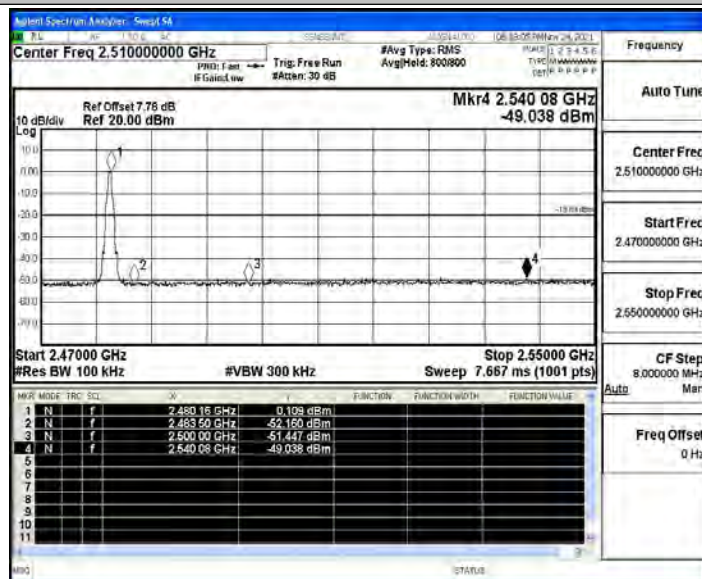


Test Graphs

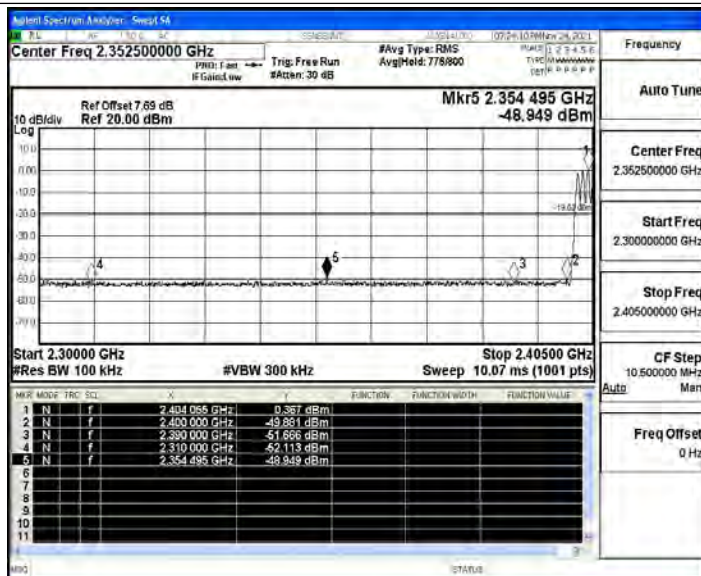
DH5_Ant1_Low_2402



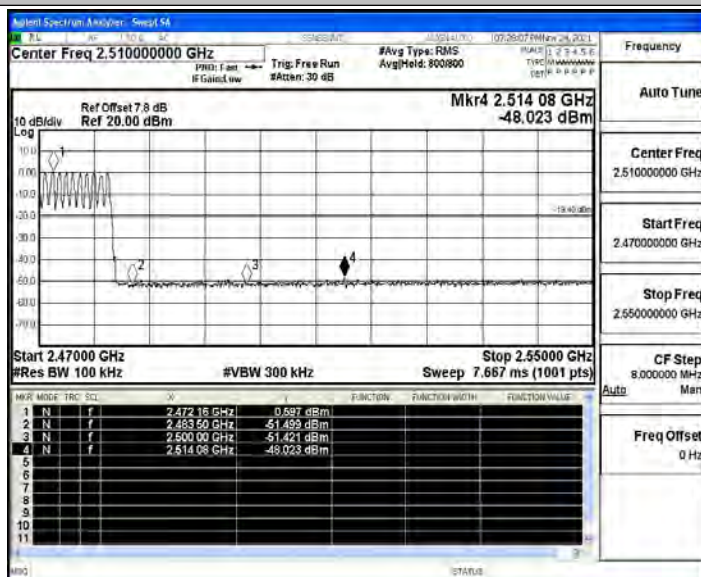
DH5_Ant1_High_2480



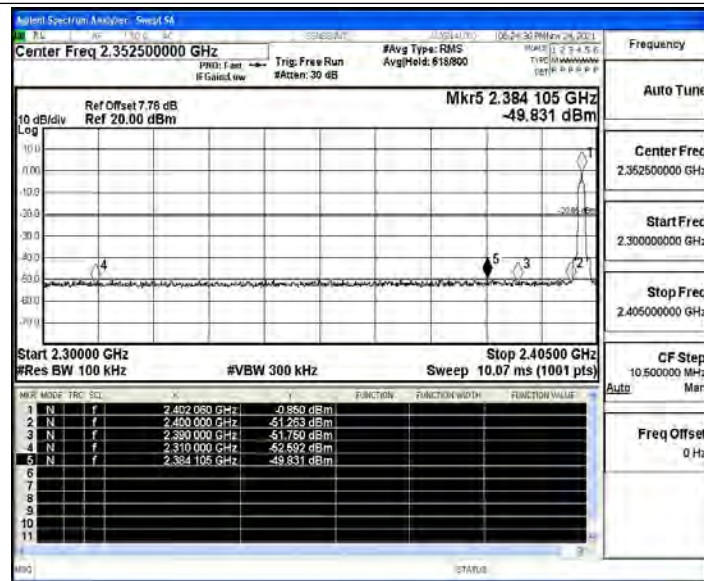
DH5_Ant1_Low_Hop_2402



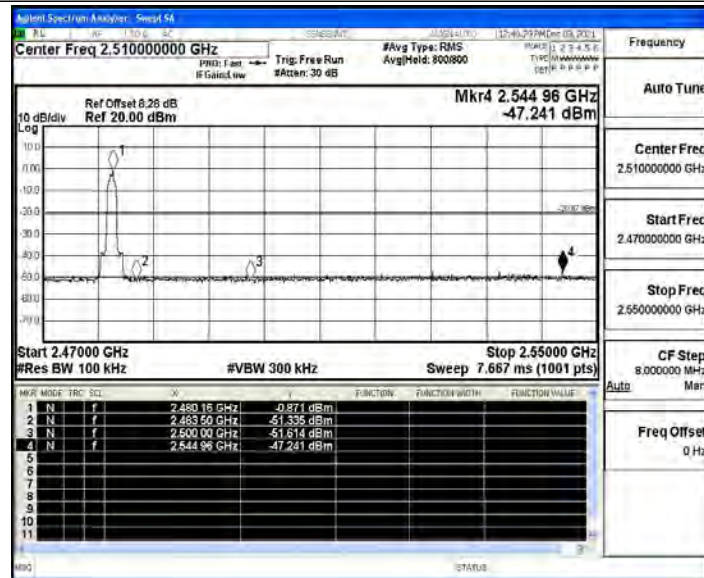
DH5_Ant1_High_Hop_2480



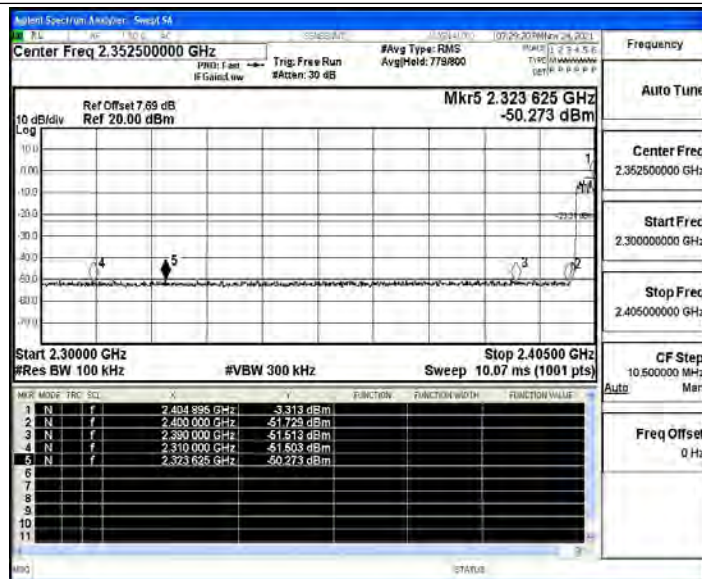
2DH5_Ant1_Low_2402



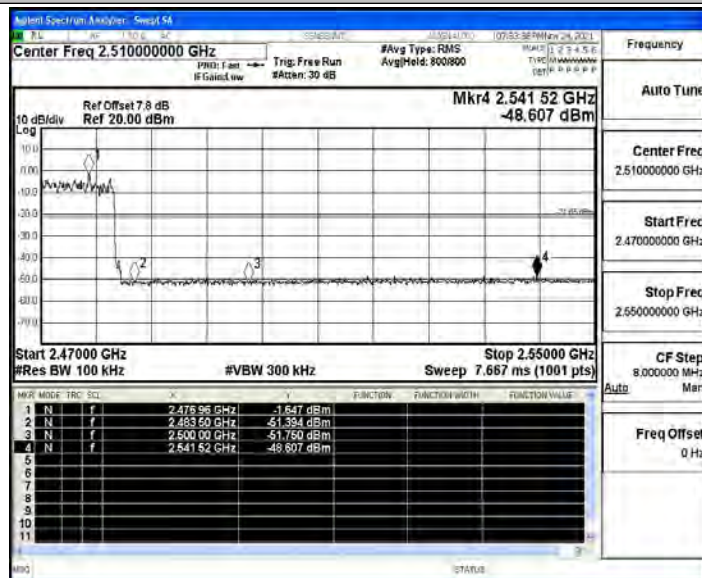
2DH5_Ant1_High_2480



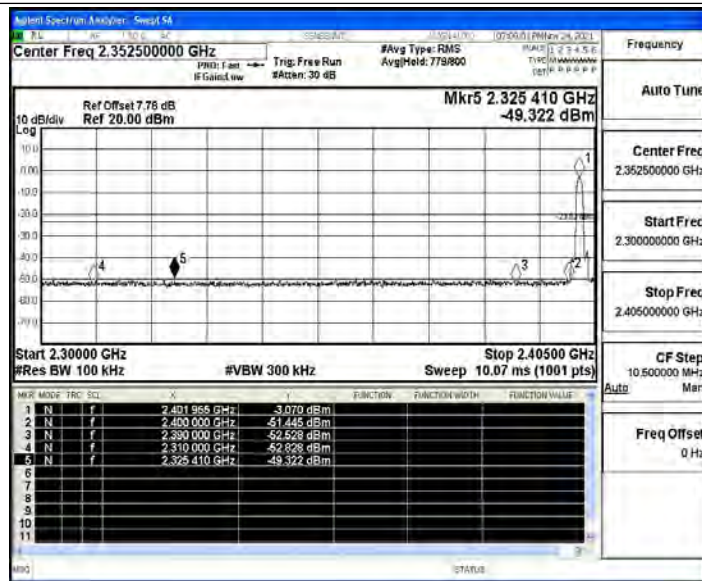
2DH5_Ant1_Low_Hop_2402



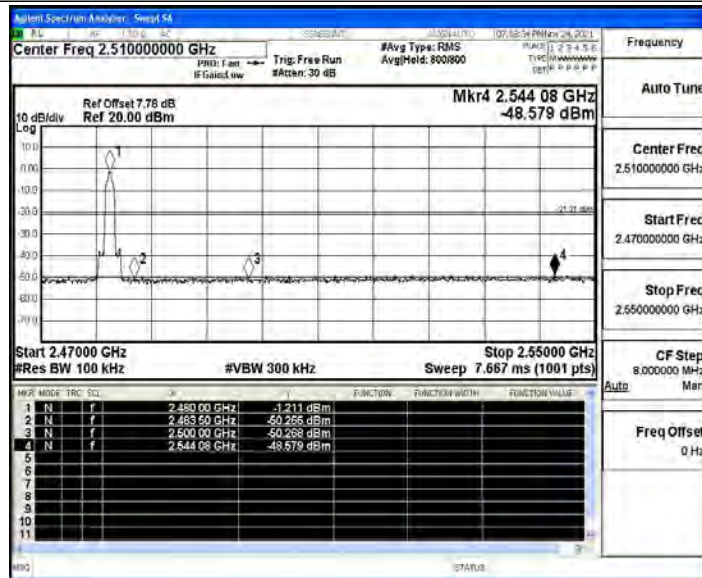
2DH5_Ant1_High_Hop_2480



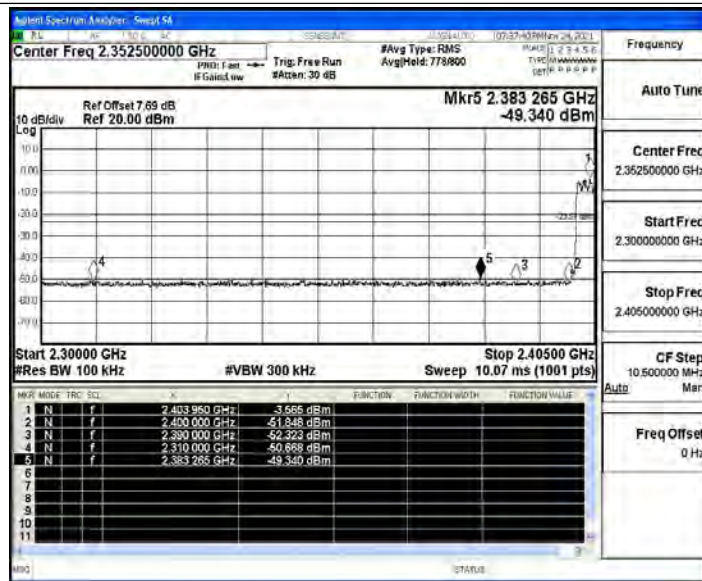
3DH5_Ant1_Low_2402



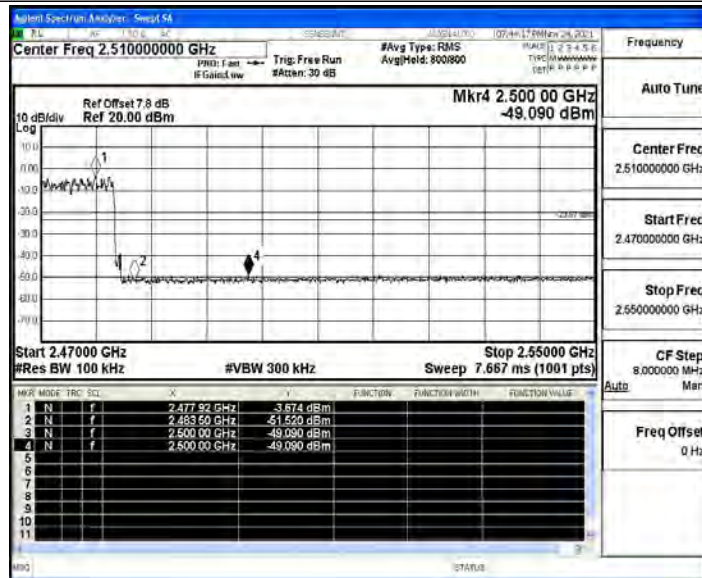
3DH5_Ant1_High_2480



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	0.08	0.08	---	PASS
			30~1000	0.08	-61.67	≤ -19.92	PASS
			1000~26500	0.08	-46.75	≤ -19.92	PASS
		2441	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-61.69	≤ -18.94	PASS
			1000~26500	1.06	-46.73	≤ -18.94	PASS
		2480	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-61.2	≤ -19.93	PASS
			1000~26500	0.07	-47	≤ -19.93	PASS
2DH5	Ant1	2402	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-60.6	≤ -21.31	PASS
			1000~26500	-1.31	-46.98	≤ -21.31	PASS
		2441	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-61.7	≤ -19.95	PASS
			1000~26500	0.05	-47.61	≤ -19.95	PASS
		2480	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-61.42	≤ -20.87	PASS
			1000~26500	-0.87	-46.52	≤ -20.87	PASS
3DH5	Ant1	2402	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-61.48	≤ -20.97	PASS
			1000~26500	-0.97	-47.27	≤ -20.97	PASS
		2441	Reference	-2.81	-2.81	---	PASS
			30~1000	-2.81	-61.29	≤ -22.81	PASS
			1000~26500	-2.81	-47.52	≤ -22.81	PASS
		2480	Reference	-2.57	-2.57	---	PASS
			30~1000	-2.57	-61.72	≤ -22.57	PASS
			1000~26500	-2.57	-47.36	≤ -22.57	PASS

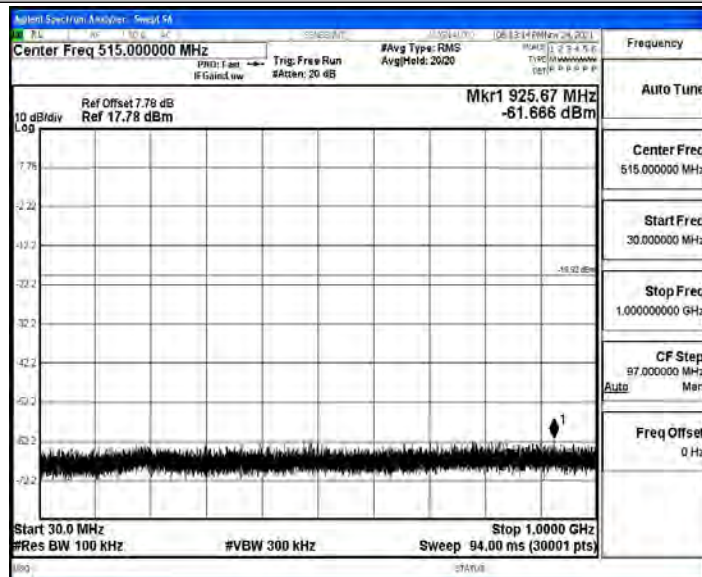


Test Graphs

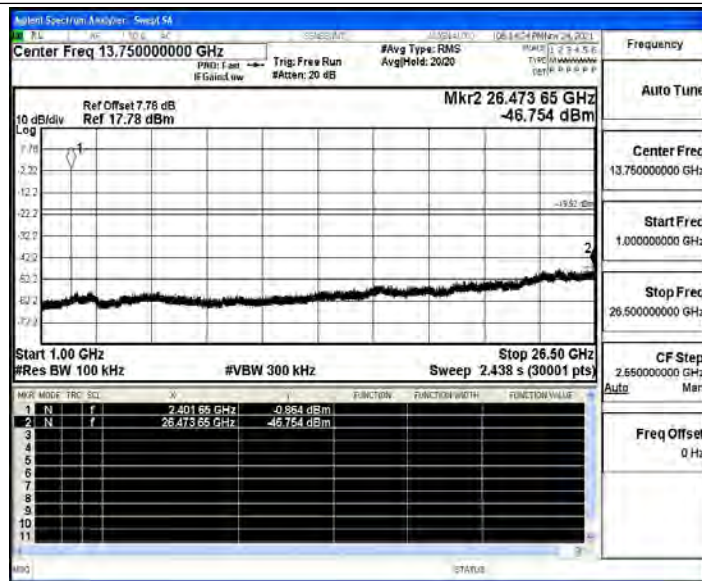
DH5_Ant1_2402_0~Reference



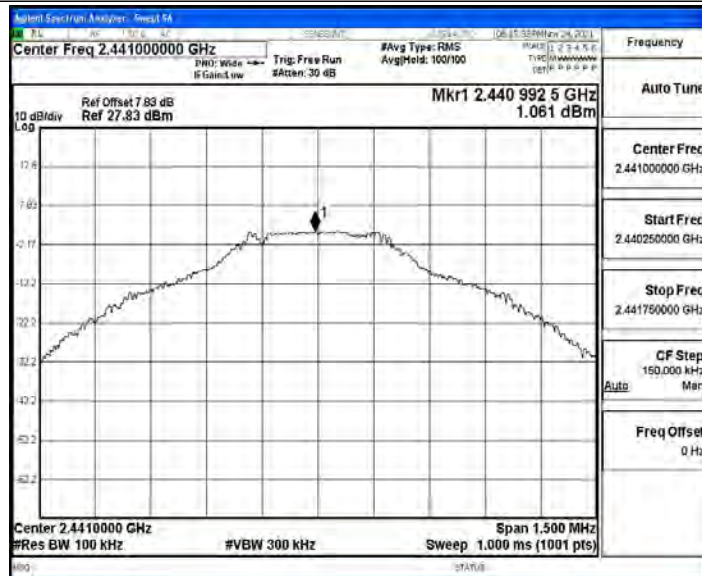
DH5_Ant1_2402_30~1000



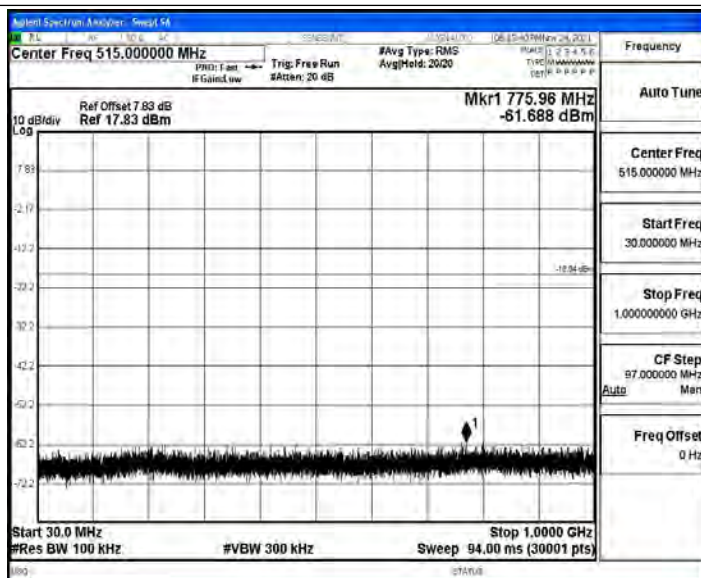
DH5_Ant1_2402_1000~26500



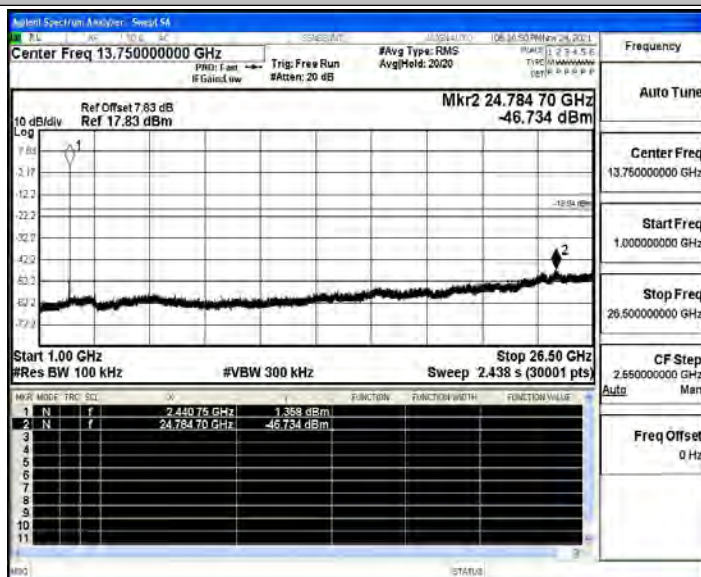
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



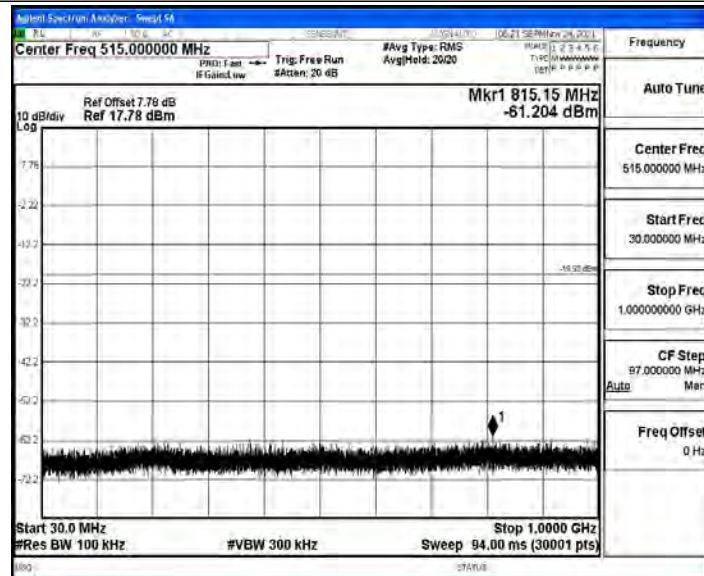
DH5_Ant1_2441_1000~26500



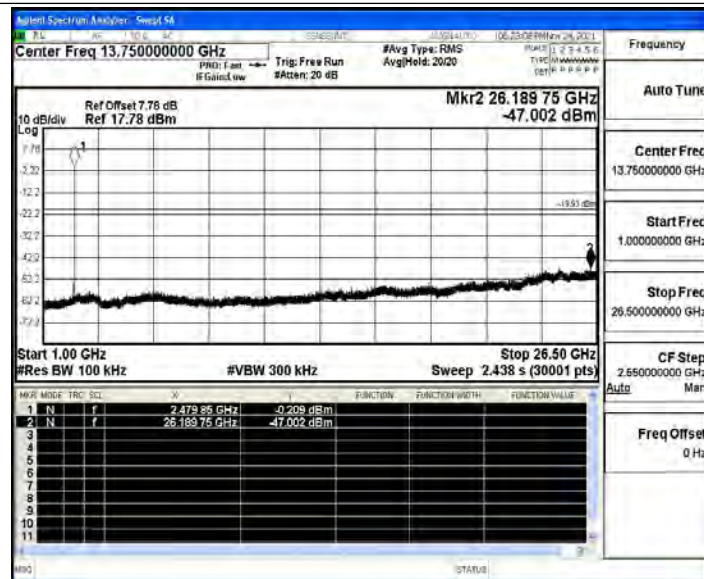
DH5_Ant1_2480_0~Reference



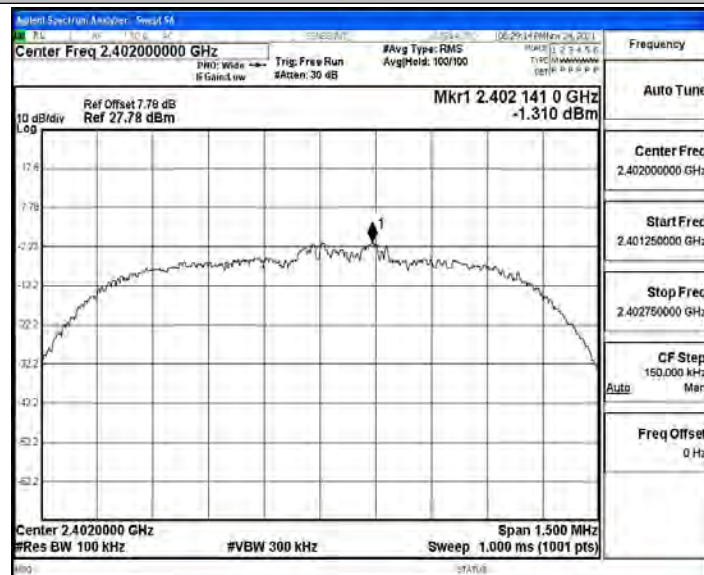
DH5_Ant1_2480_30~1000



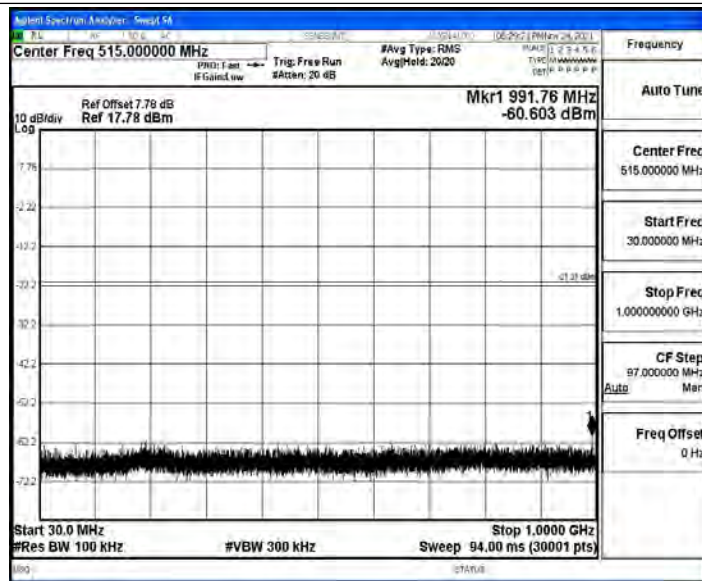
DH5_Ant1_2480_1000~26500



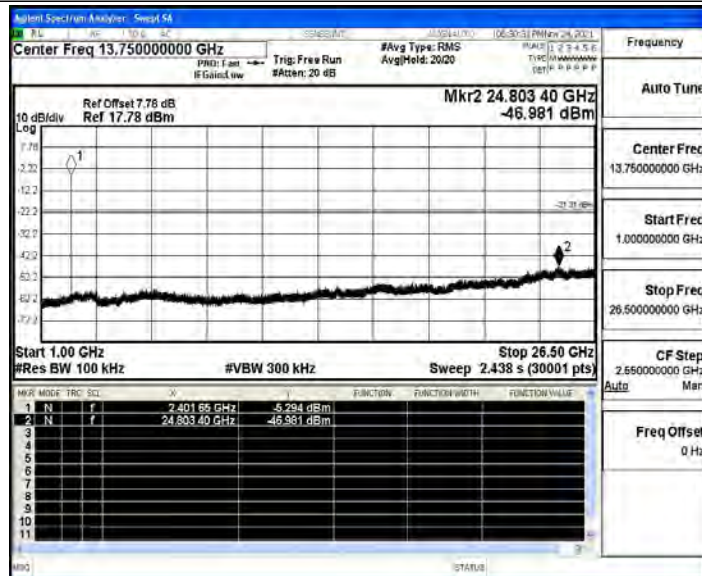
2DH5_Ant1_2402_0~Reference



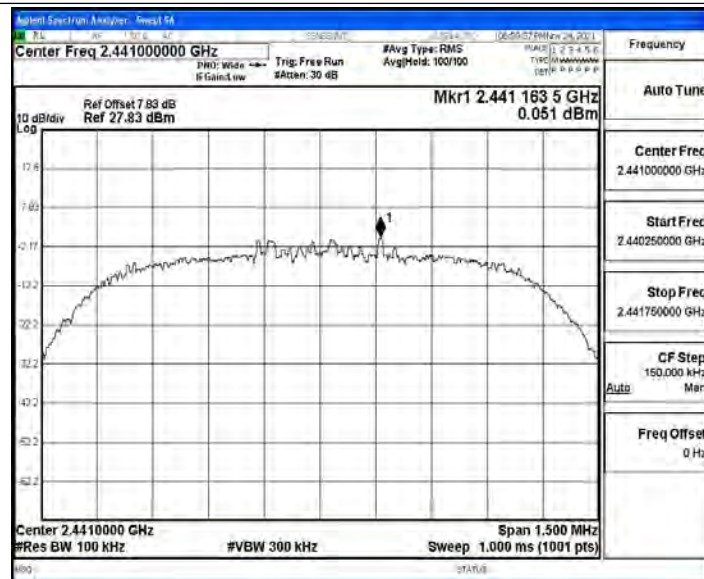
2DH5_Ant1_2402_30~1000



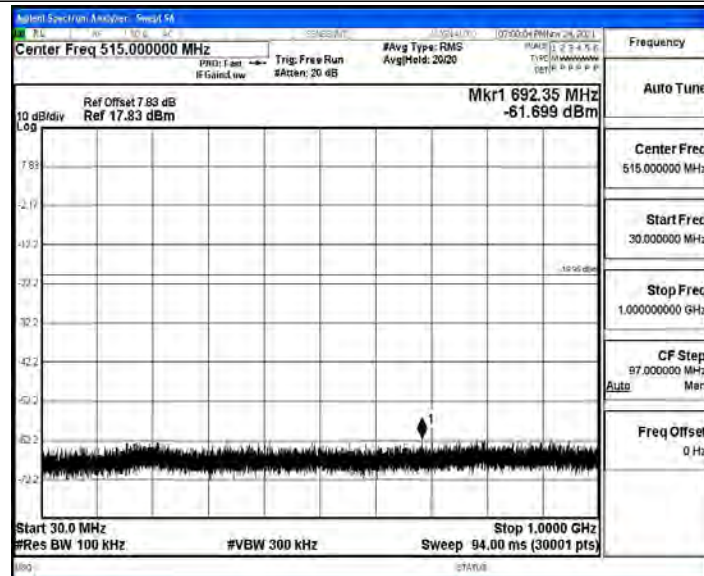
2DH5_Ant1_2402_1000~26500



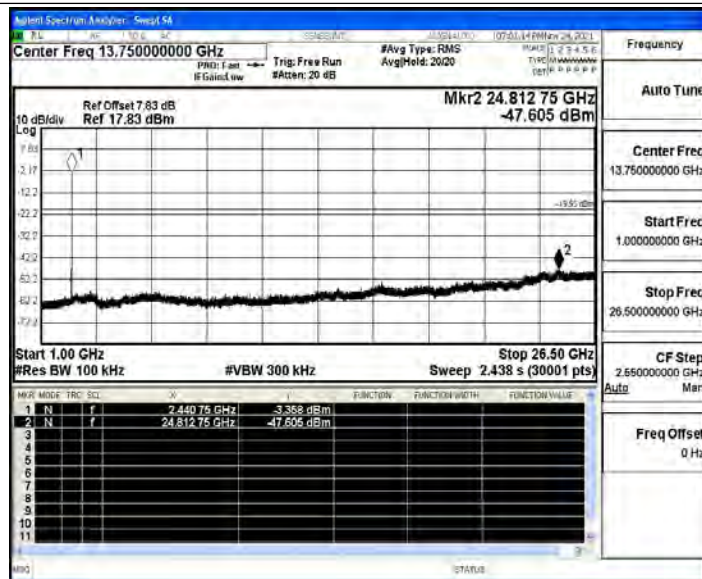
2DH5_Ant1_2441_0~Reference



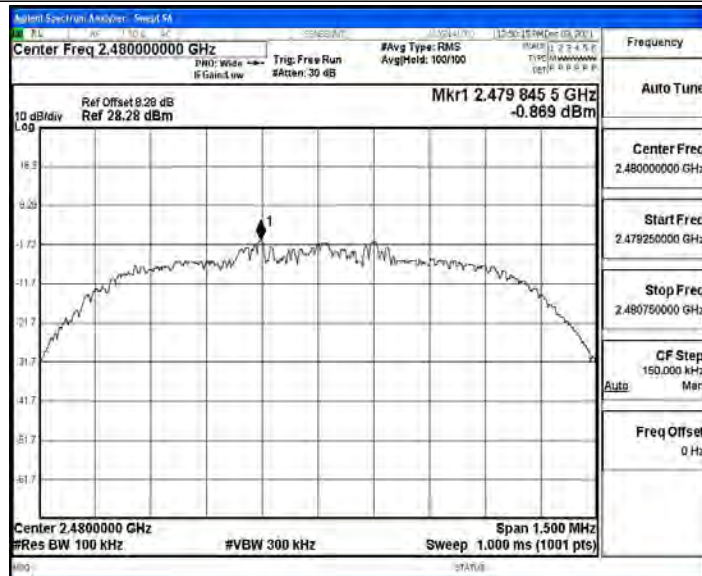
2DH5_Ant1_2441_30~1000



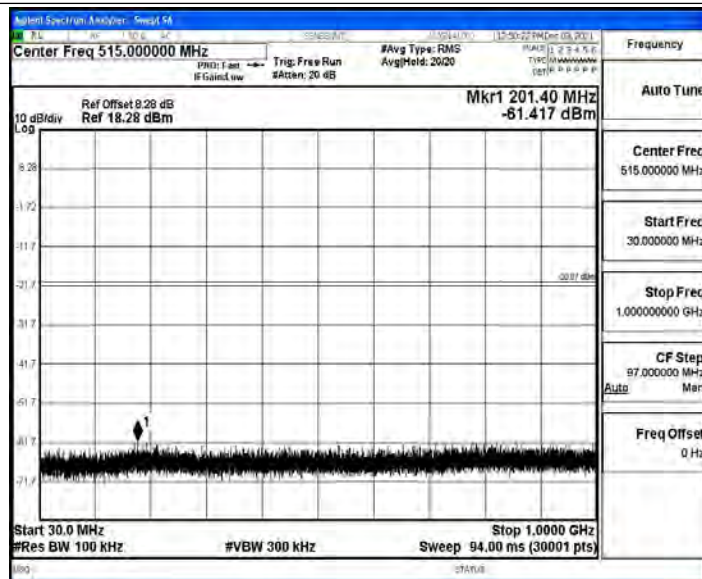
2DH5_Ant1_2441_1000~26500



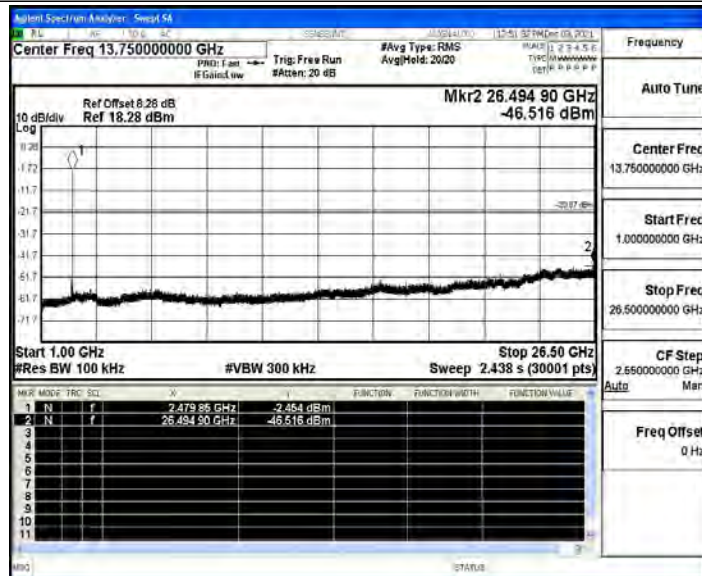
2DH5_Ant1_2480_0~Reference



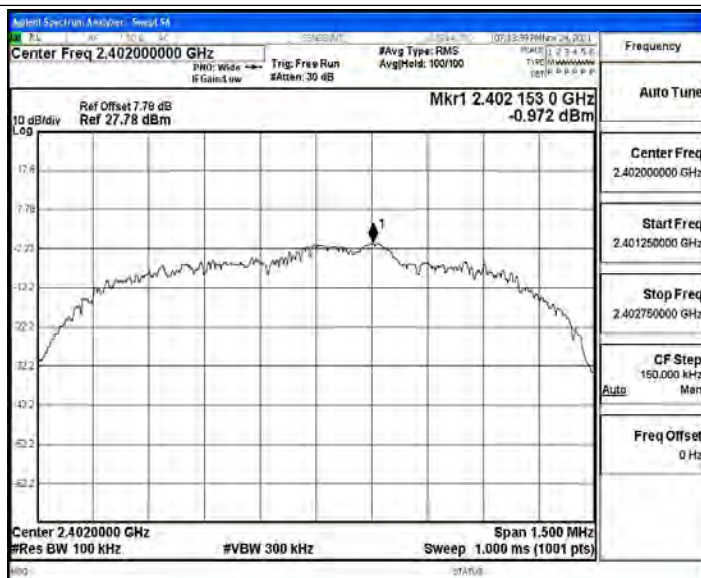
2DH5_Ant1_2480_30~1000



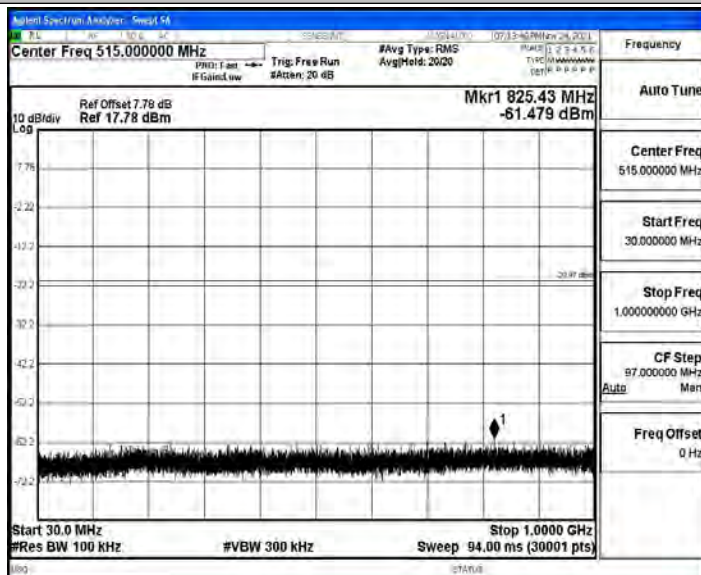
2DH5_Ant1_2480_1000~26500



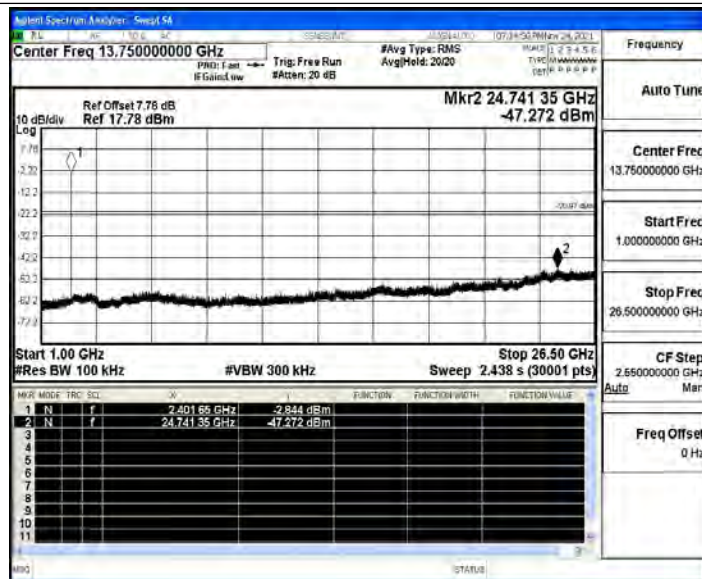
3DH5_Ant1_2402_0~Reference



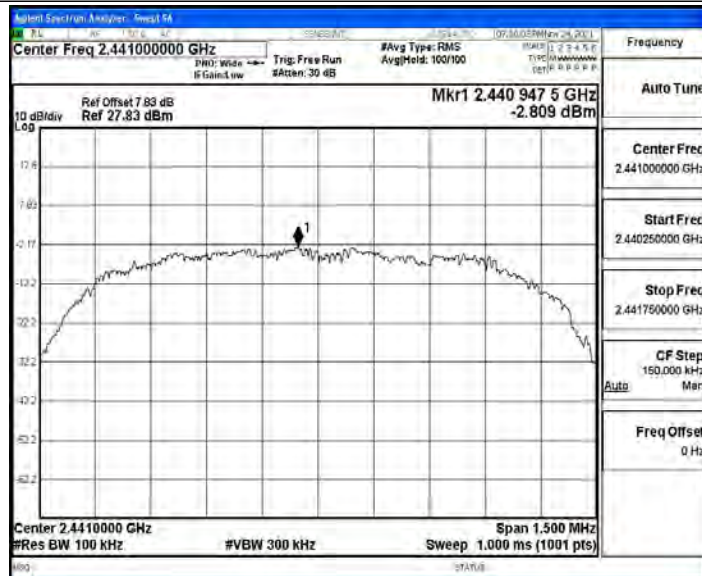
3DH5_Ant1_2402_30~1000



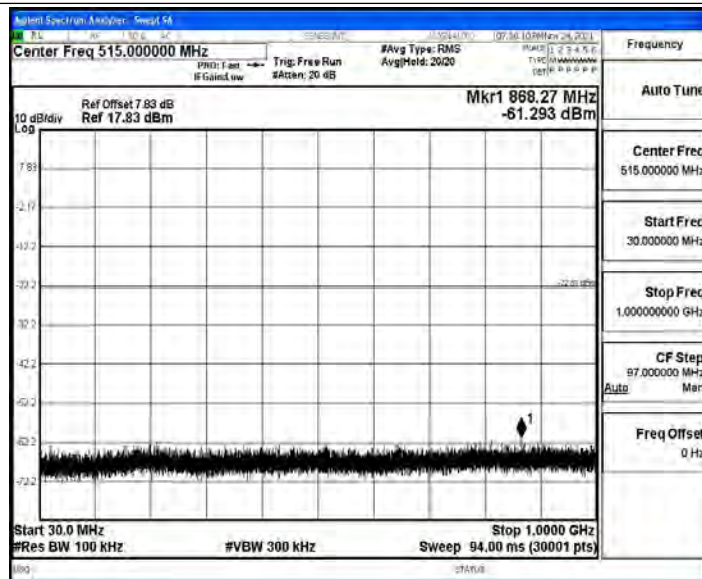
3DH5_Ant1_2402_1000~26500



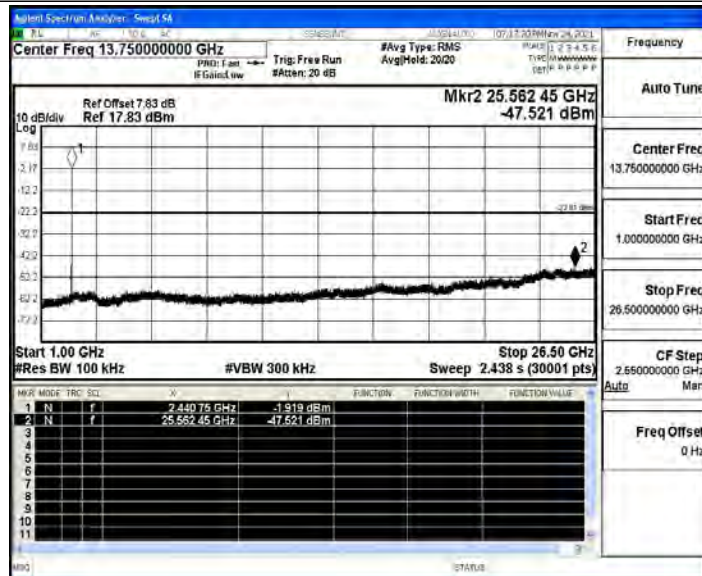
3DH5_Ant1_2441_0~Reference



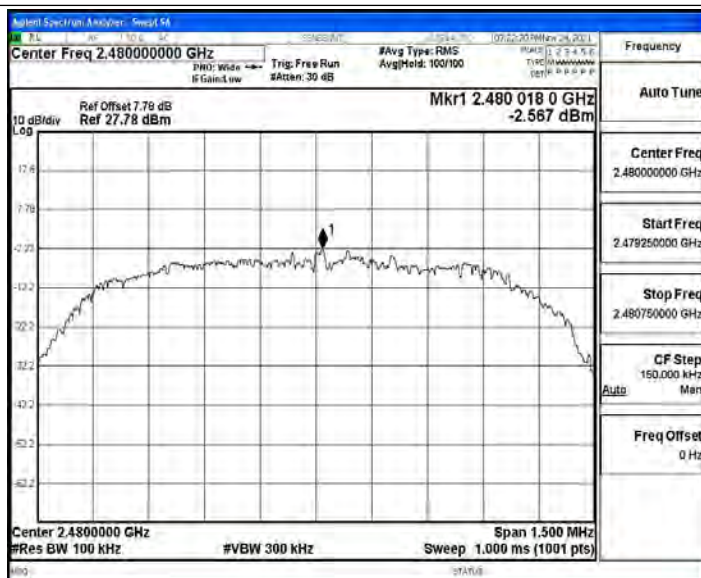
3DH5_Ant1_2441_30~1000



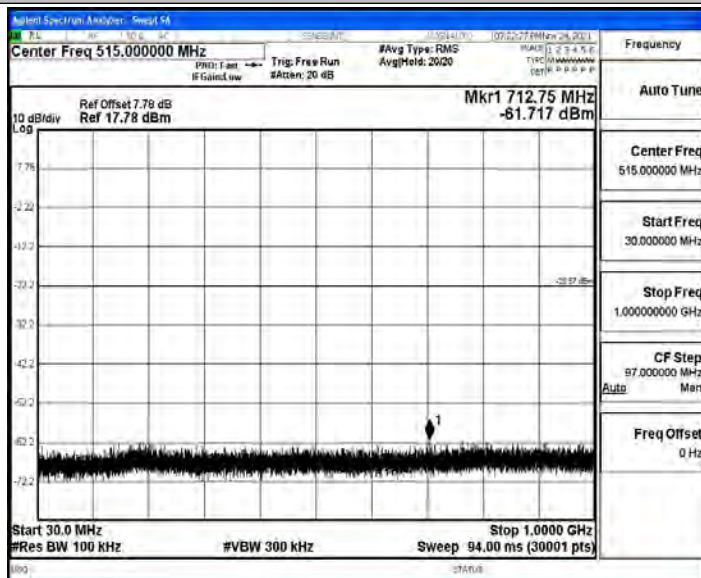
3DH5_Ant1_2441_1000~26500



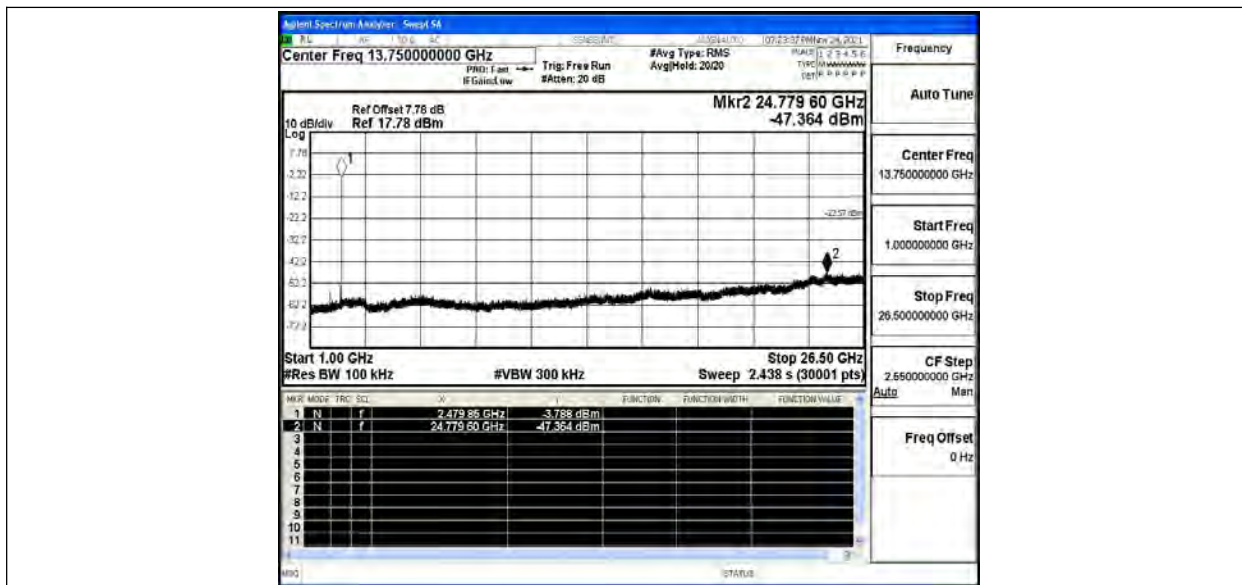
3DH5_Ant1_2480_0~Reference



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	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2389.460	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2390.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2310.000	-41.17	≤-21.20	54.03	≤74	PASS
				Peak	2368.880	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	2390.000	-40.44	≤-21.20	54.76	≤74	PASS
		High	2480	AV	2483.500	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2483.520	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2500.000	-48.14	≤-41.20	47.06	≤54	PASS
				Peak	2483.500	-39.83	≤-21.20	55.37	≤74	PASS
				Peak	2495.280	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2500.000	-39.73	≤-21.20	55.47	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.76	≤-21.20	54.44	≤74	PASS
				Peak	2374.235	-37.9	≤-21.20	57.30	≤74	PASS
				Peak	2390.000	-39.83	≤-21.20	55.37	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.04	≤-21.20	55.16	≤74	PASS
				Peak	2487.440	-37.37	≤-21.20	57.83	≤74	PASS
				Peak	2500.000	-39.95	≤-21.20	55.25	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2379.695	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2390.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2310.000	-39.73	≤-21.20	55.47	≤74	PASS
				Peak	2382.320	-38.42	≤-21.20	56.78	≤74	PASS
				Peak	2390.000	-39.22	≤-21.20	55.98	≤74	PASS
		High	2480	AV	2483.500	-47.5	≤-41.20	47.70	≤54	PASS
				AV	2498.560	-47.44	≤-41.20	47.76	≤54	PASS
				AV	2500.000	-47.56	≤-41.20	47.64	≤54	PASS
				Peak	2483.500	-39.8	≤-21.20	55.40	≤74	PASS
				Peak	2488.320	-37.24	≤-21.20	57.96	≤74	PASS
				Peak	2500.000	-38.07	≤-21.20	57.13	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.07	≤-21.20	54.13	≤74	PASS
				Peak	2314.910	-38.19	≤-21.20	57.01	≤74	PASS
				Peak	2390.000	-39.94	≤-21.20	55.26	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2487.040	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	2500.000	-38.79	≤-21.20	56.41	≤74	PASS



3DH5	Ant1	Low	2402	AV	2310.000	-48.99	≤-41.20	46.21	≤54	PASS
				AV	2380.325	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2390.000	-48.52	≤-41.20	46.68	≤54	PASS
				Peak	2310.000	-39.35	≤-21.20	55.85	≤74	PASS
				Peak	2375.810	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2390.000	-38.95	≤-21.20	56.25	≤74	PASS
		High	2480	AV	2483.500	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2483.520	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2500.000	-47.95	≤-41.20	47.25	≤54	PASS
				Peak	2483.500	-40.48	≤-21.20	54.72	≤74	PASS
				Peak	2497.280	-38.15	≤-21.20	57.05	≤74	PASS
				Peak	2500.000	-39.41	≤-21.20	55.79	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.49	≤-21.20	53.71	≤74	PASS
				Peak	2347.145	-38.29	≤-21.20	56.91	≤74	PASS
				Peak	2390.000	-39.94	≤-21.20	55.26	≤74	PASS
		High	Hop_2480	Peak	2483.500	-39.73	≤-21.20	55.47	≤74	PASS
				Peak	2496.480	-37.97	≤-21.20	57.23	≤74	PASS
				Peak	2500.000	-39.36	≤-21.20	55.84	≤74	PASS

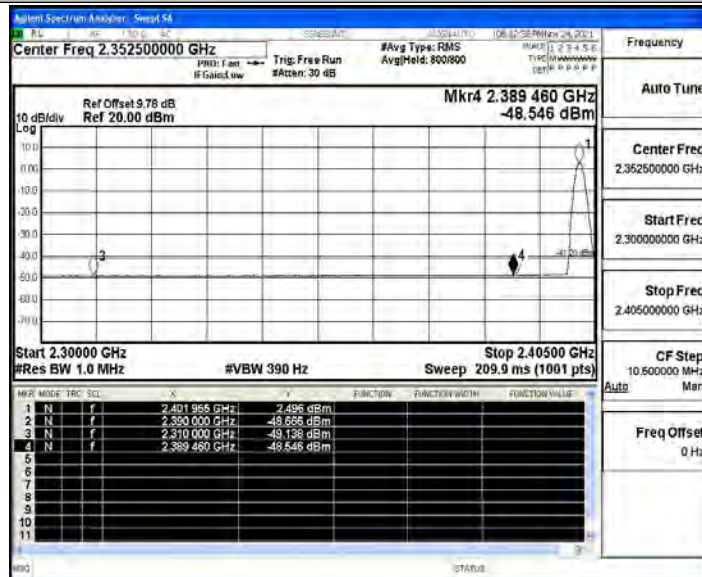
Note:

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.

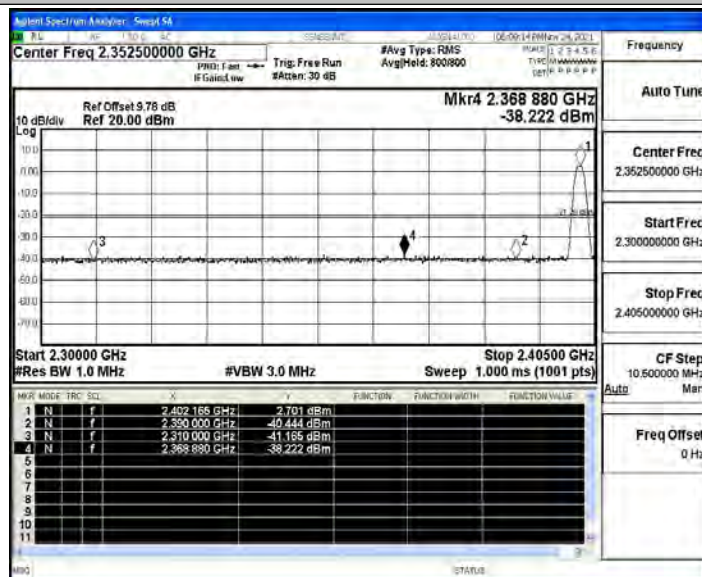


Test Graphs

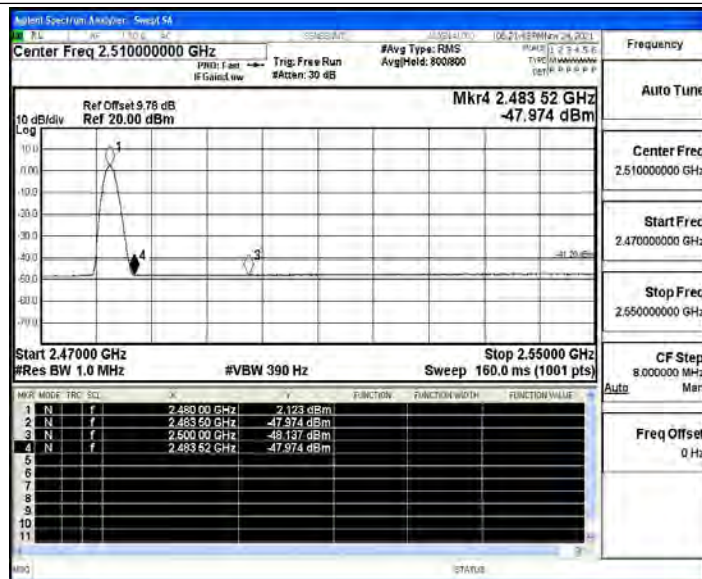
DH5_Ant1_Low_2402_AV



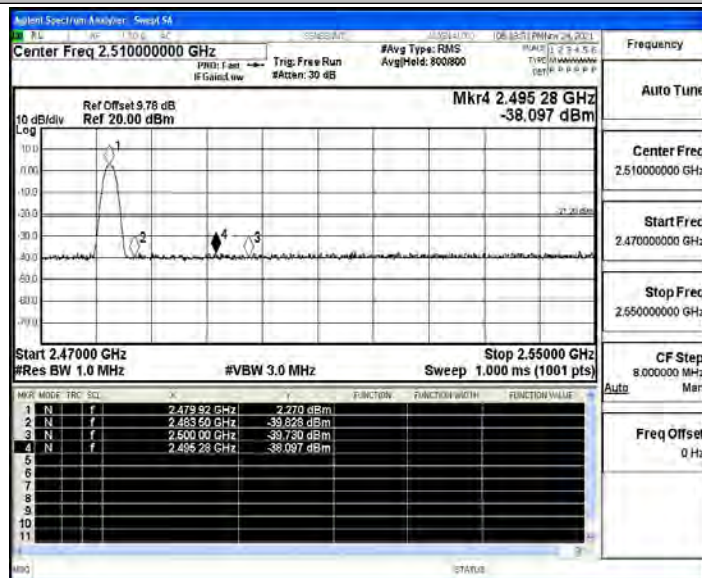
DH5_Ant1_Low_2402_Peak



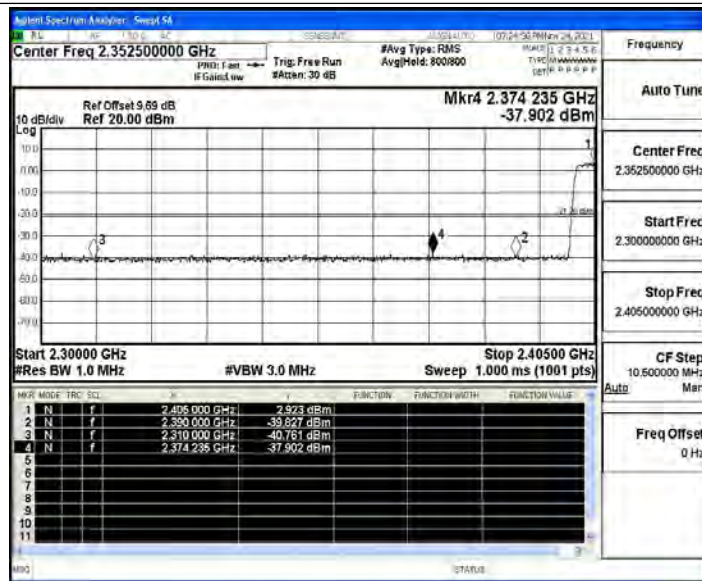
DH5_Ant1_High_2480_AV



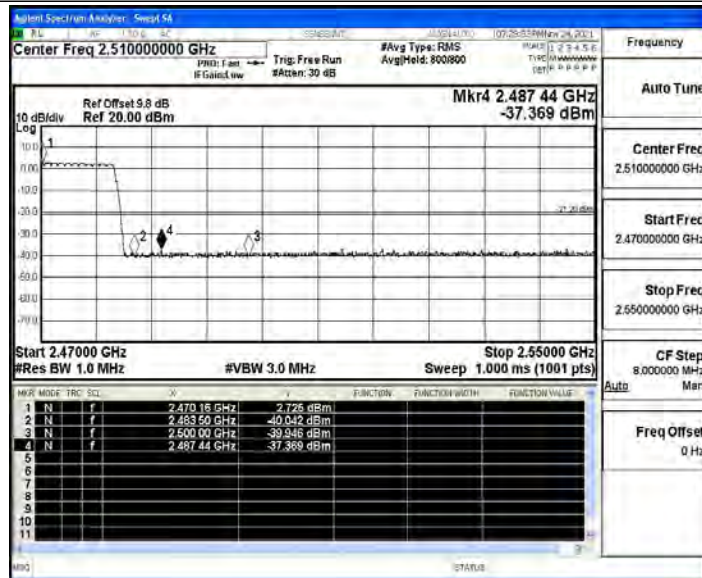
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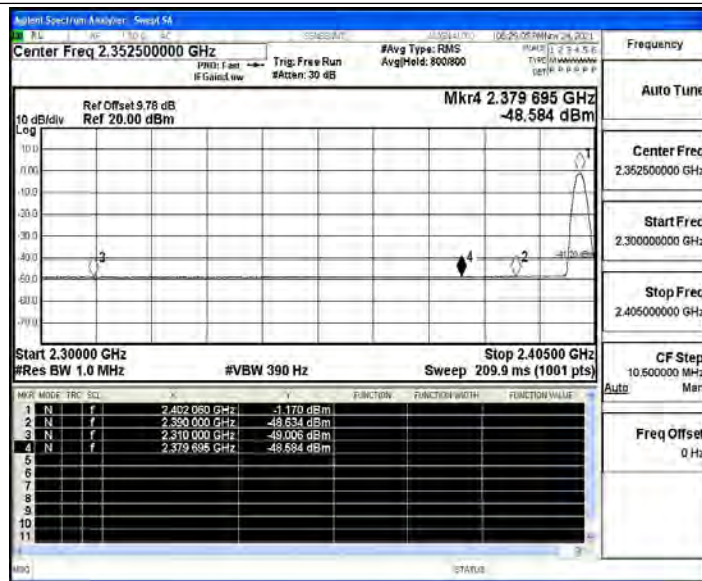
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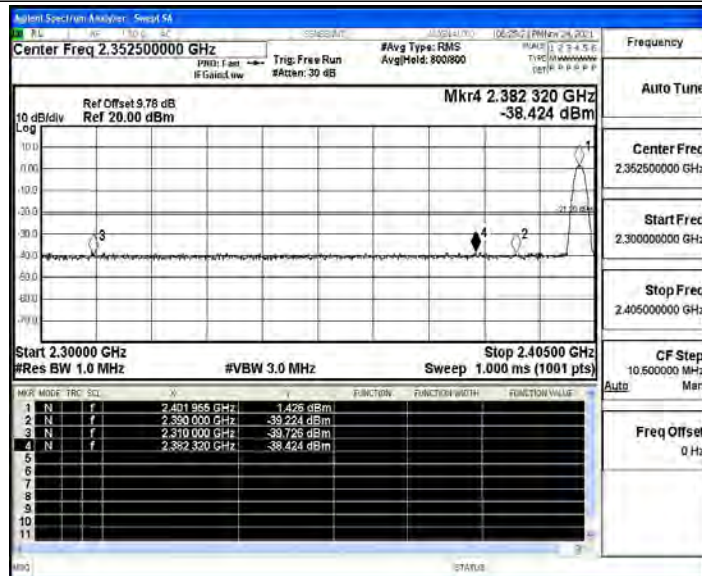
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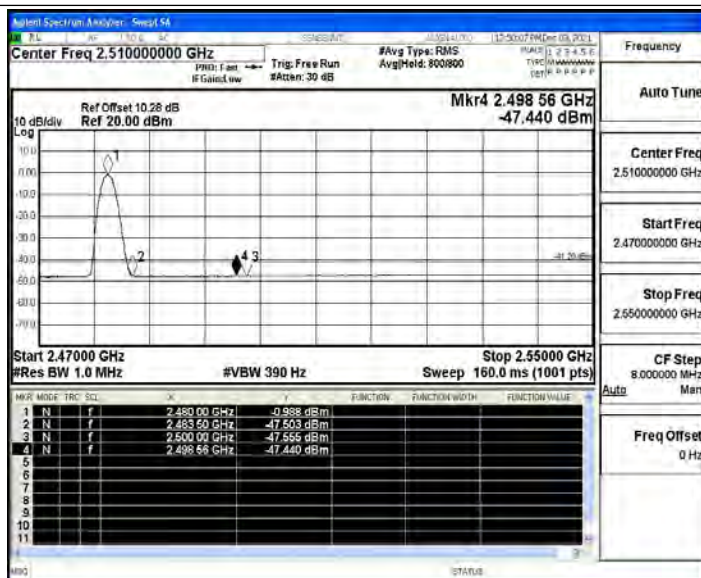
2DH5_Ant1_Low_2402_AV



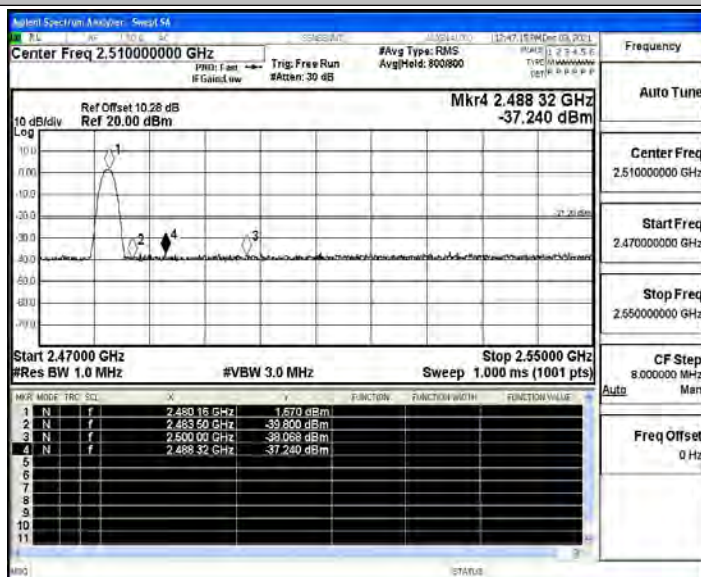
2DH5_Ant1_Low_2402_Peak



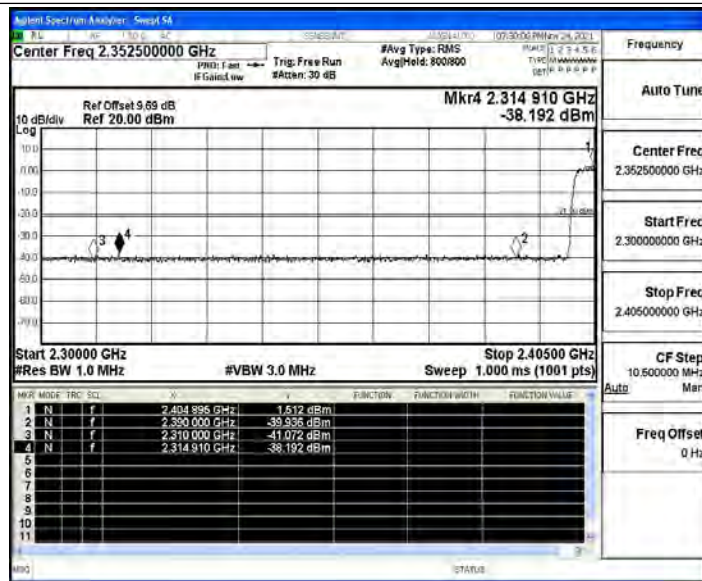
2DH5_Ant1_High_2480_AV



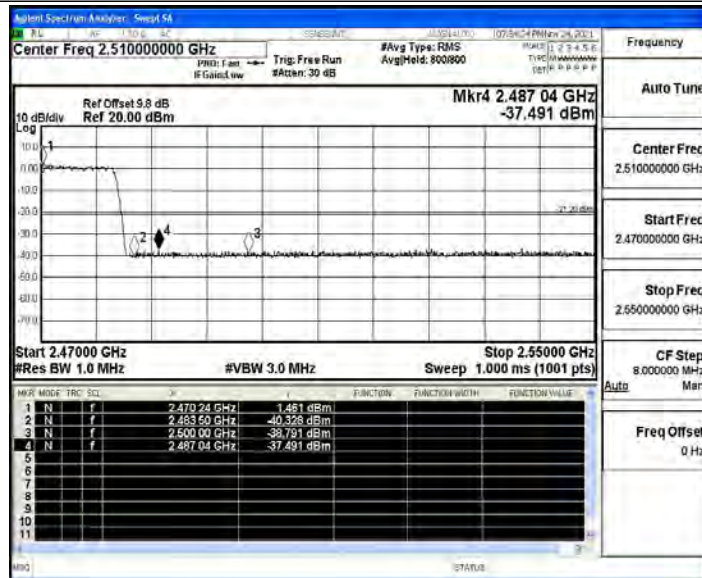
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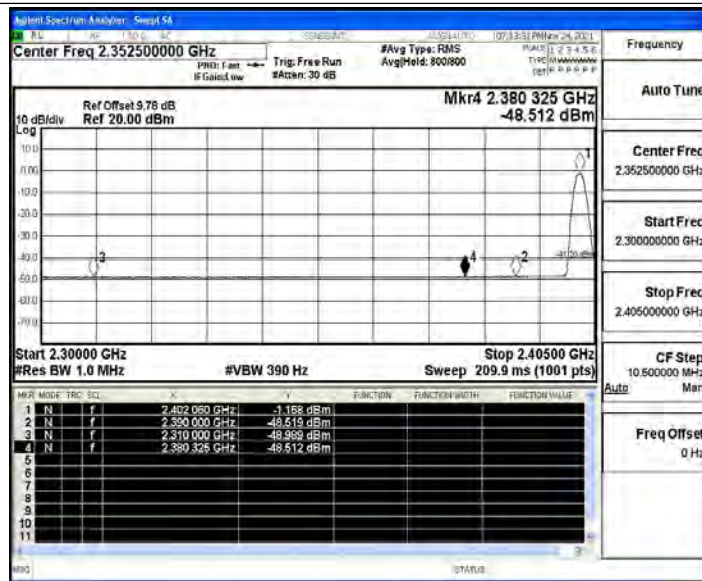
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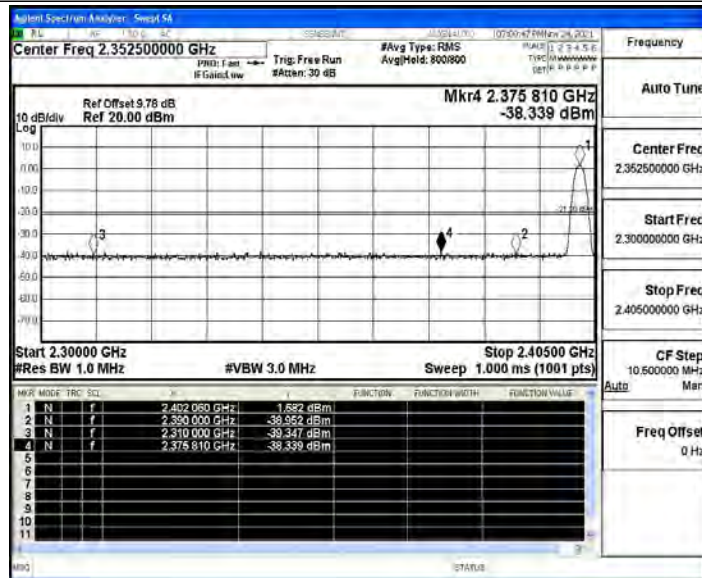
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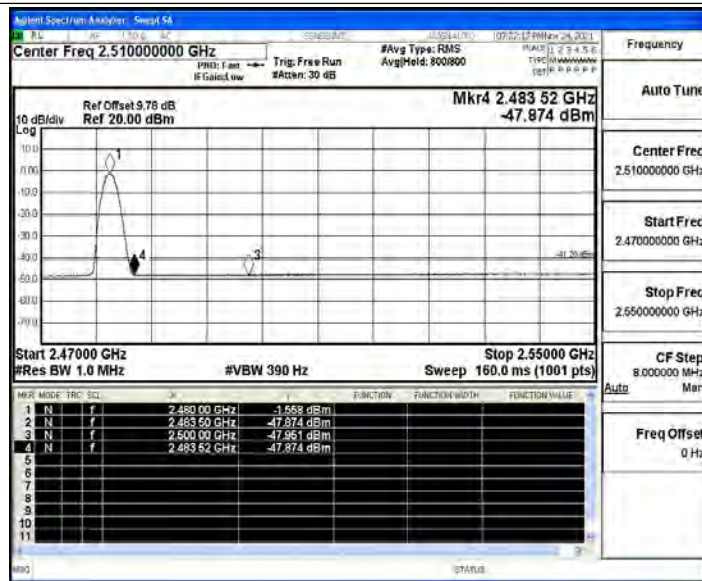
3DH5_Ant1_Low_2402_AV



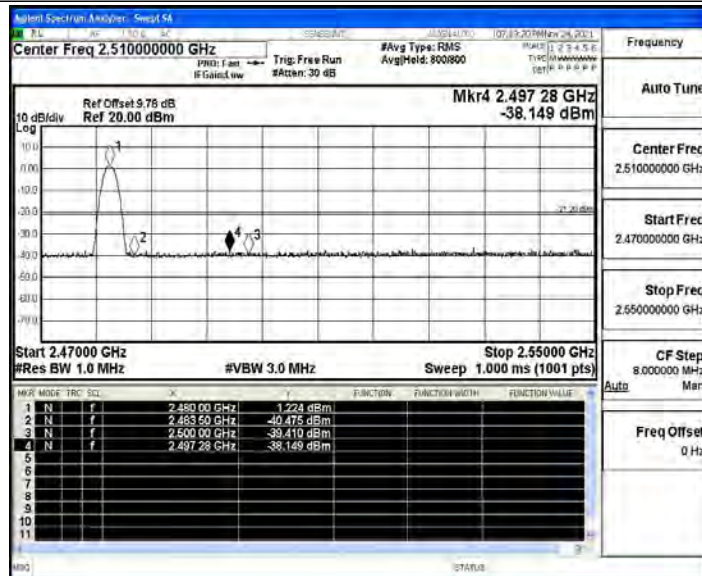
3DH5_Ant1_Low_2402_Peak



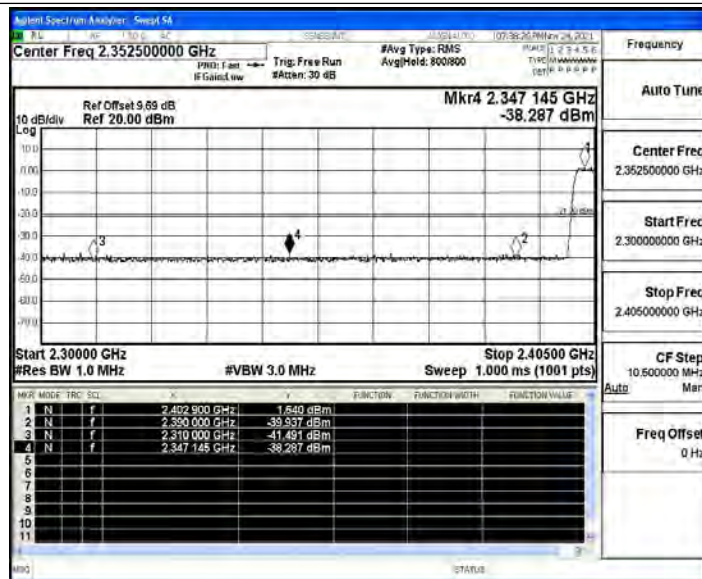
3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak

