



Appendix A

RF Test Data for BT V4.2 (DSS) (Conducted Measurement)

Product Name: Smartphone

Trade Mark: S Smooth

Test Model: Smooth 6.26 Pro

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
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	0.951	2401.529	2402.480	---	PASS
		2441	0.948	2440.529	2441.477	---	PASS
		2480	0.945	2479.532	2480.477	---	PASS
2DH5	Ant1	2402	1.338	2401.325	2402.663	---	PASS
		2441	1.293	2440.355	2441.648	---	PASS
		2480	1.356	2479.313	2480.669	---	PASS
3DH5	Ant1	2402	1.281	2401.340	2402.621	---	PASS
		2441	1.305	2440.340	2441.645	---	PASS
		2480	1.296	2479.343	2480.639	---	PASS

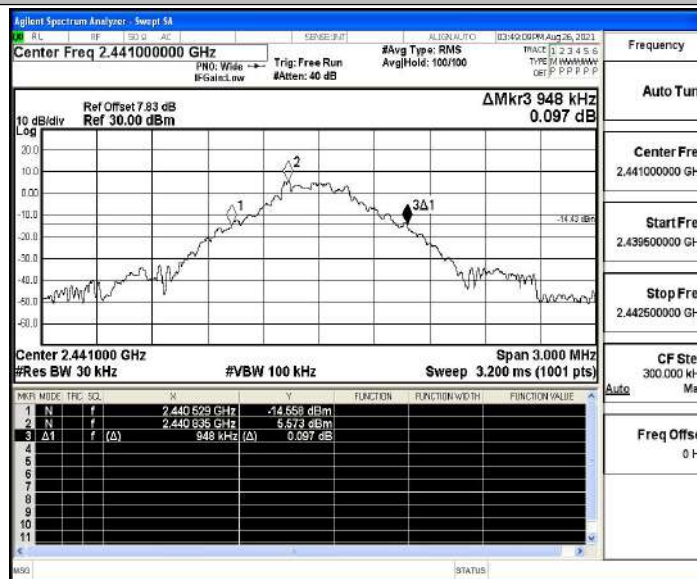


Test Graphs

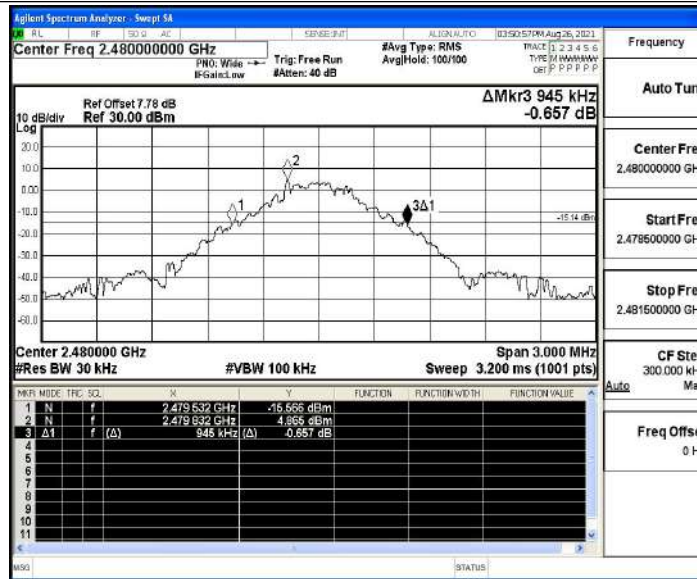
DH5_Ant1_2402



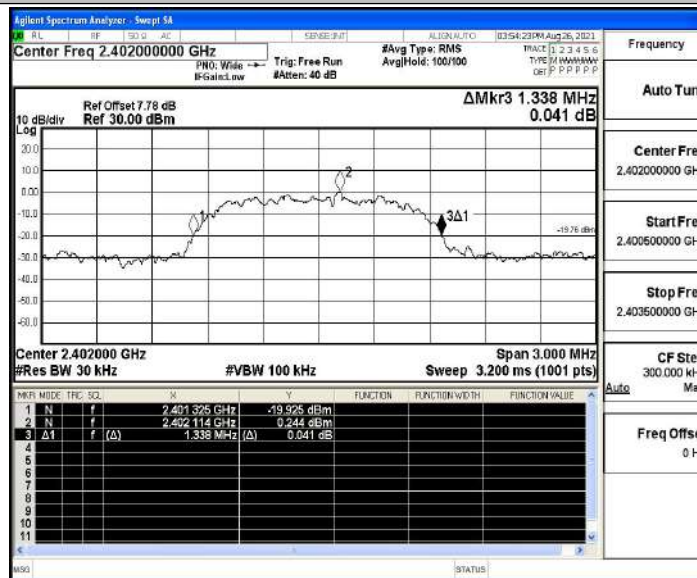
DH5_Ant1_2441



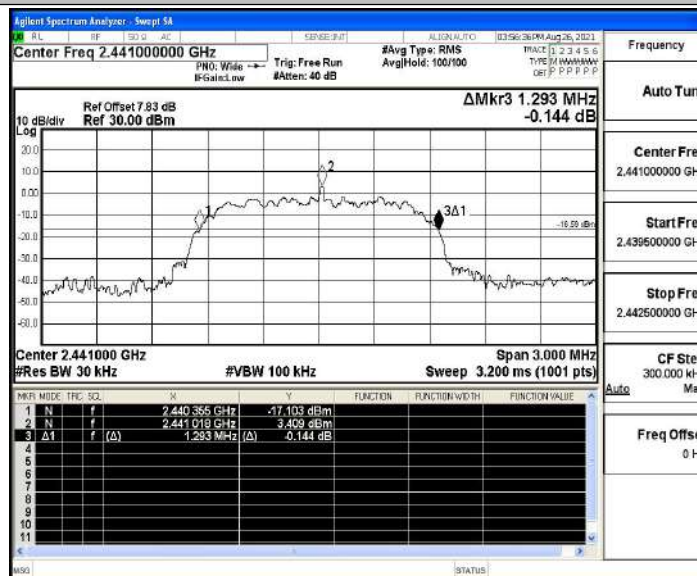
DH5_Ant1_2480



2DH5_Ant1_2402

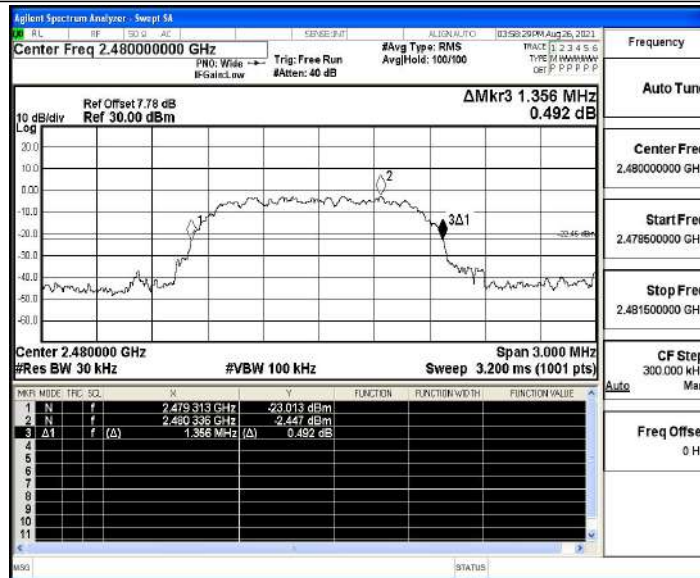


2DH5_Ant1_2441

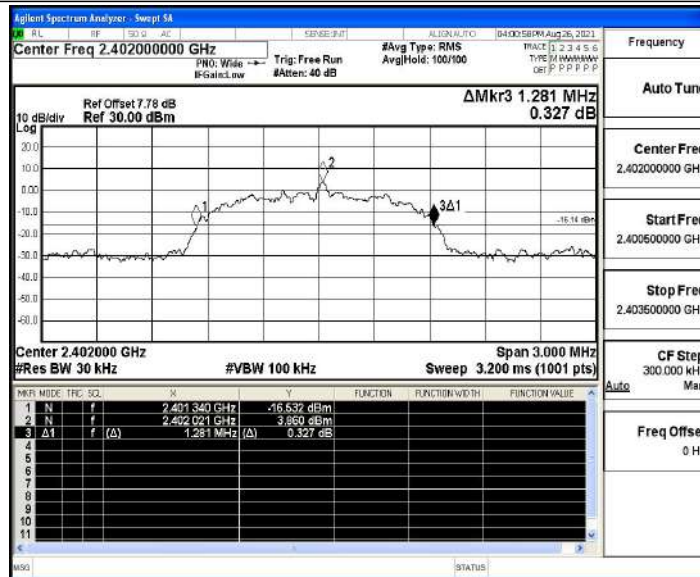




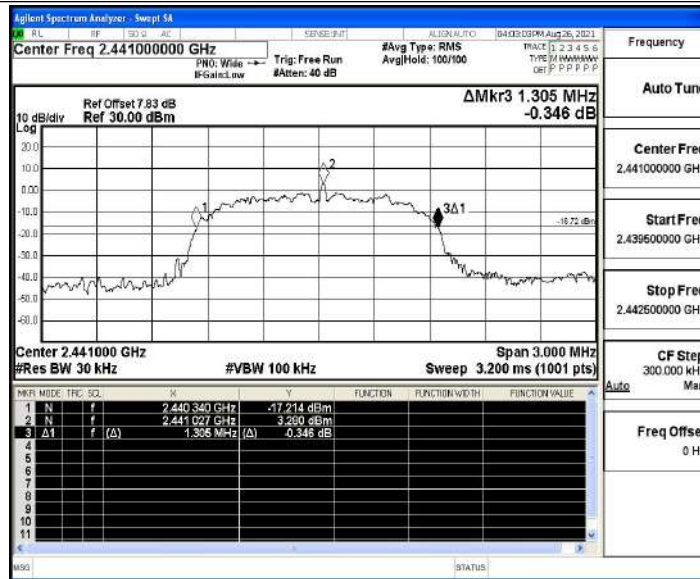
2DH5_Ant1_2480



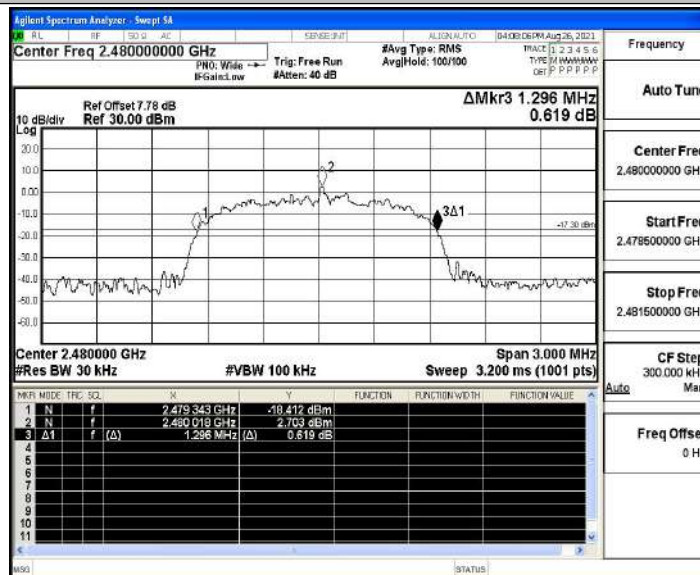
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum peak conducted output power

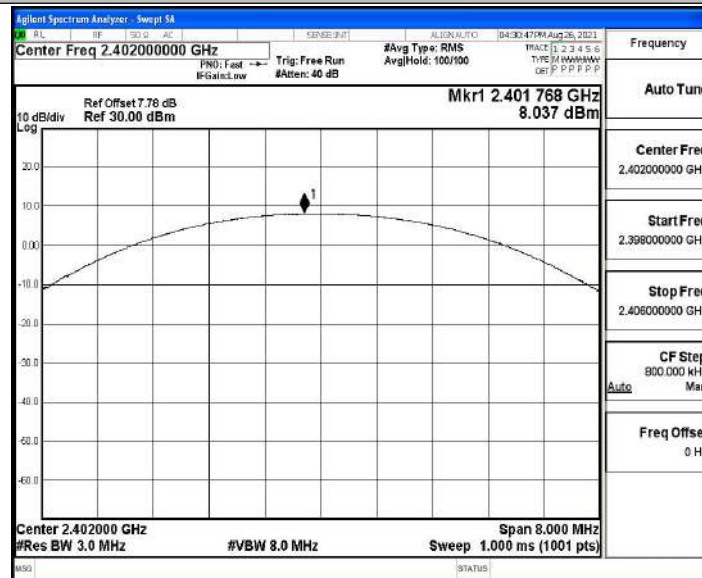
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	8.04	≤ 30	PASS
		2441	7.37	≤ 30	PASS
		2480	6.3	≤ 30	PASS
2DH5	Ant1	2402	7.45	≤ 20.97	PASS
		2441	7.43	≤ 20.97	PASS
		2480	6.65	≤ 20.97	PASS
3DH5	Ant1	2402	7.74	≤ 20.97	PASS
		2441	7.73	≤ 20.97	PASS
		2480	6.92	≤ 20.97	PASS

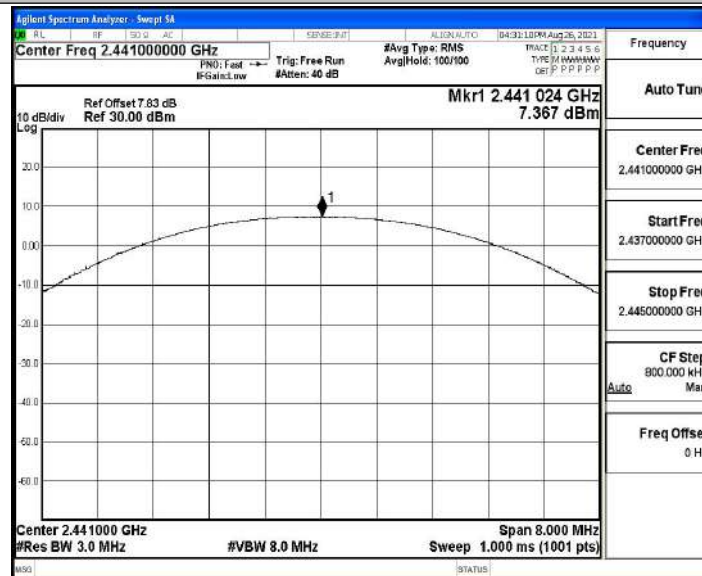


Test Graphs

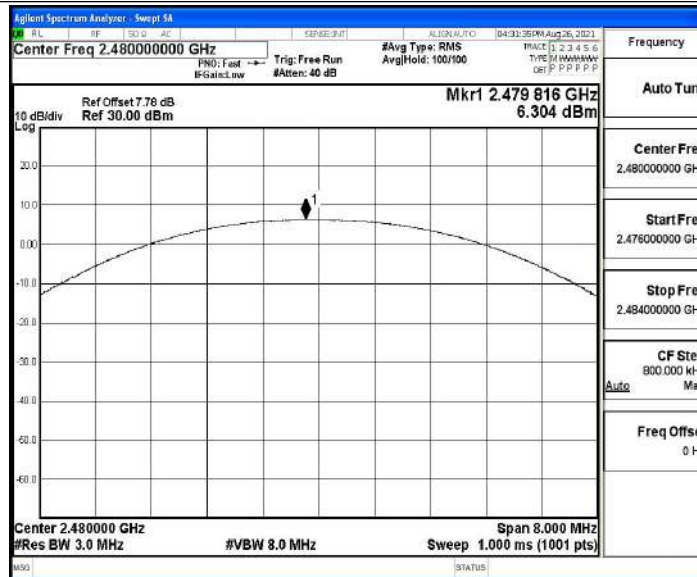
DH5_Ant1_2402



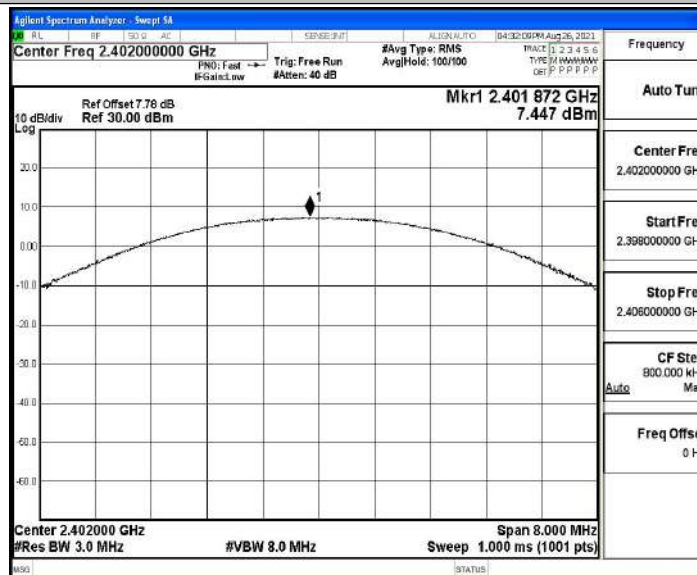
DH5_Ant1_2441



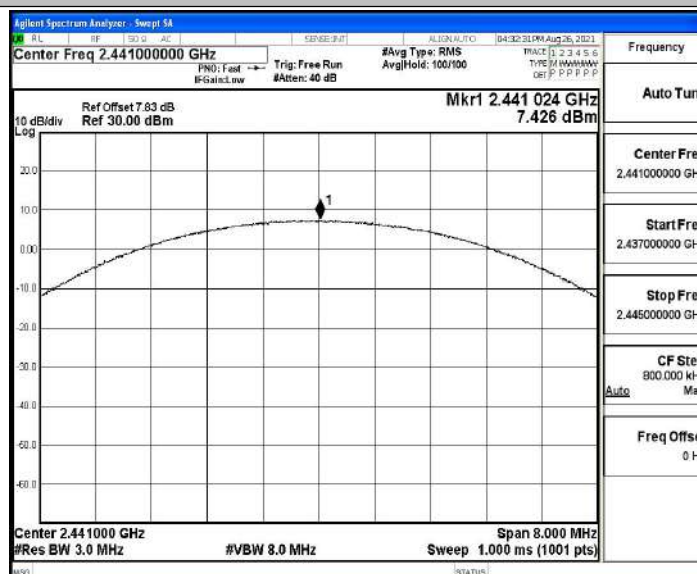
DH5_Ant1_2480



2DH5_Ant1_2402

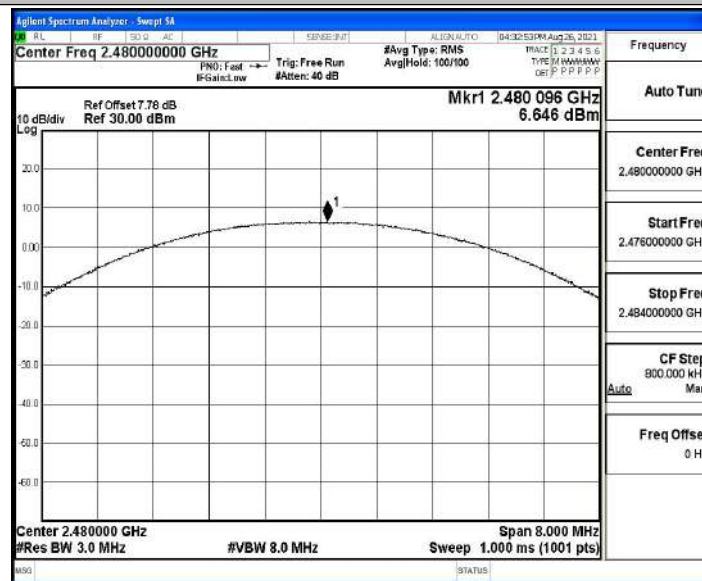


2DH5_Ant1_2441

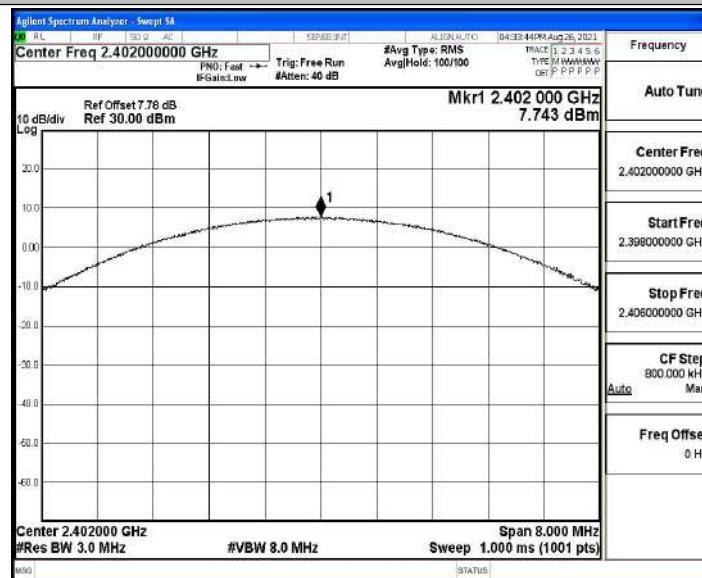




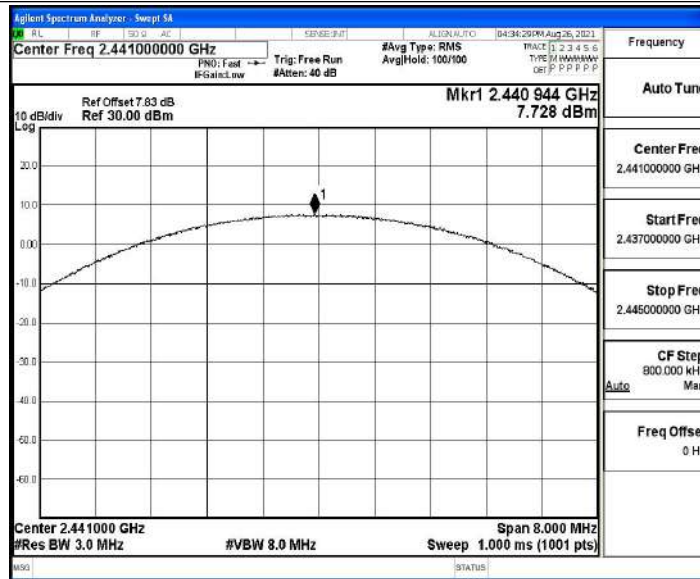
2DH5_Ant1_2480



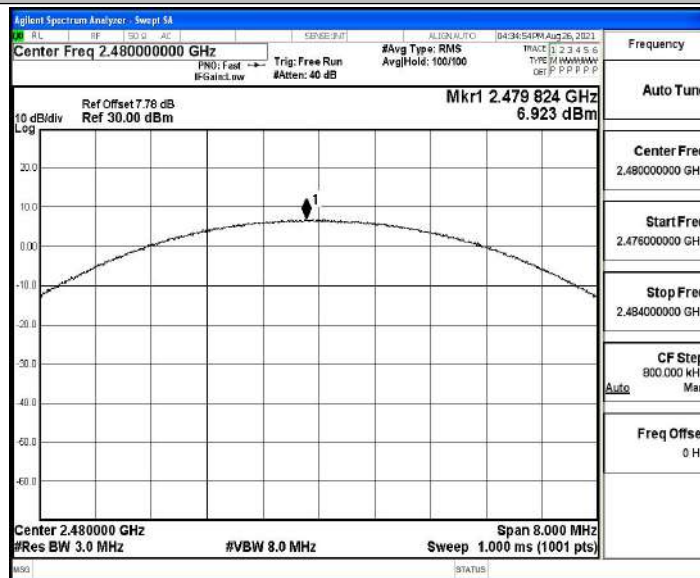
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

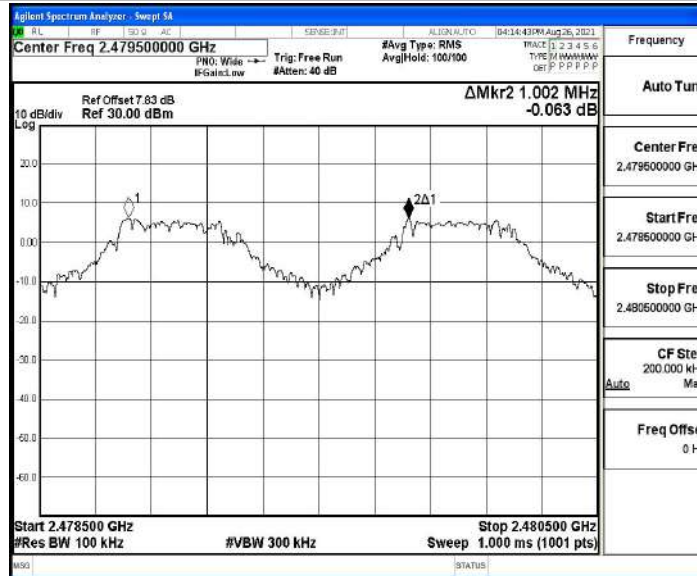
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥ 0.951	PASS
2DH5	Ant1	Hop	1.052	≥ 0.904	PASS
3DH5	Ant1	Hop	1.134	≥ 0.870	PASS

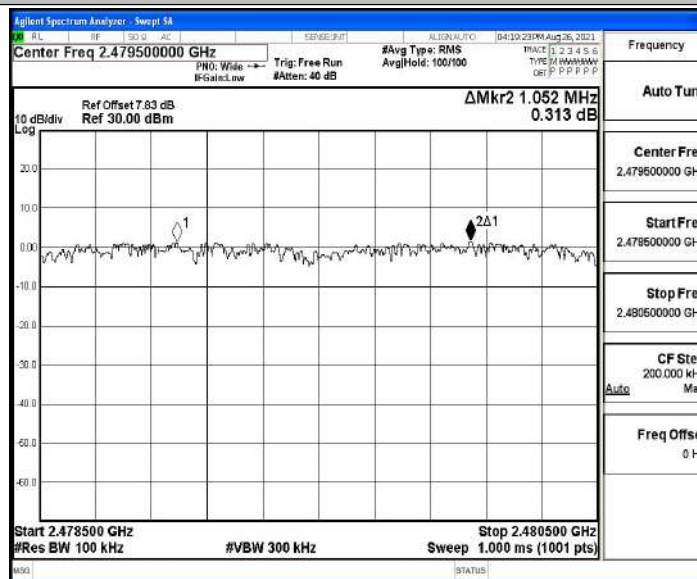


Test Graphs

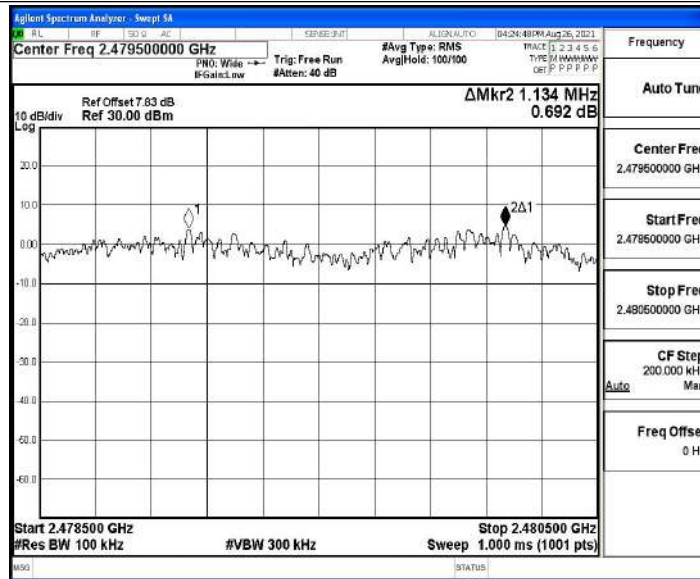
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.4 Time of occupancy

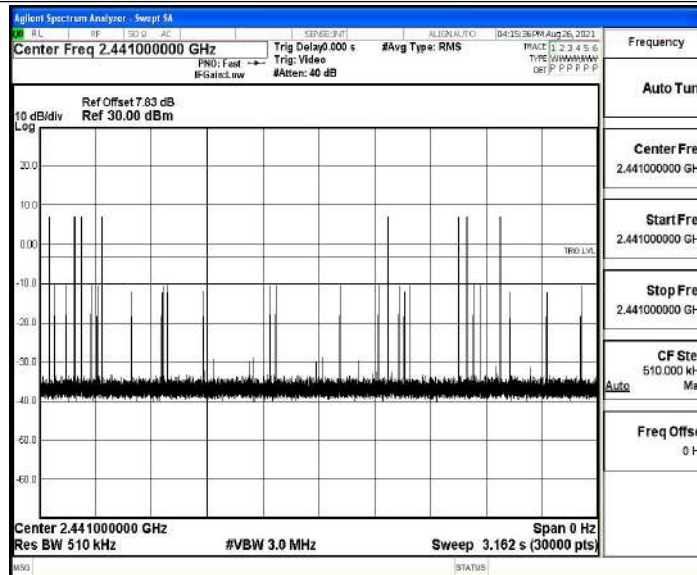
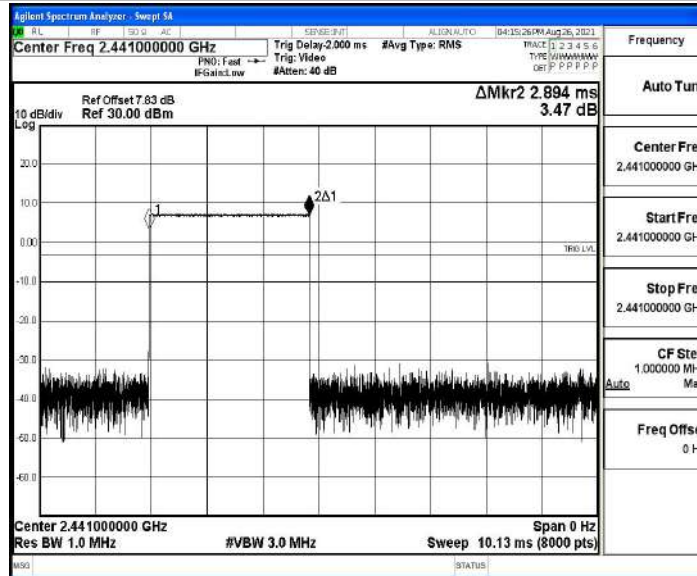
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	90	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	≤0.4	PASS
3DH5	Ant1	Hop	2.88	80	0.231	≤0.4	PASS

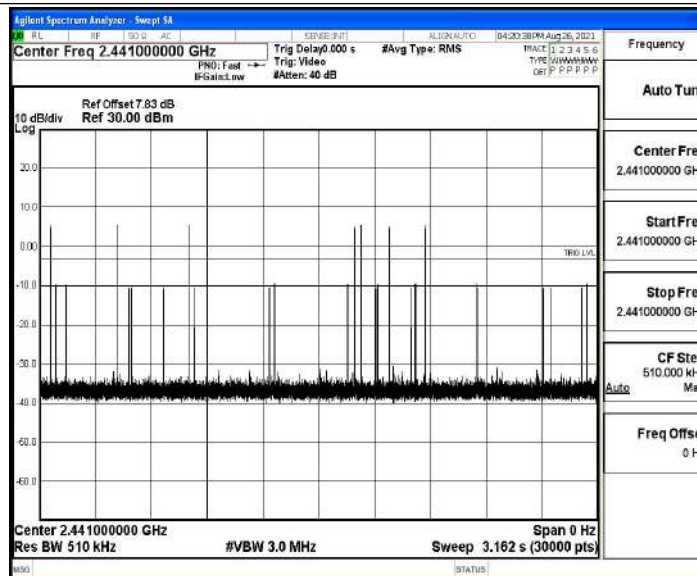
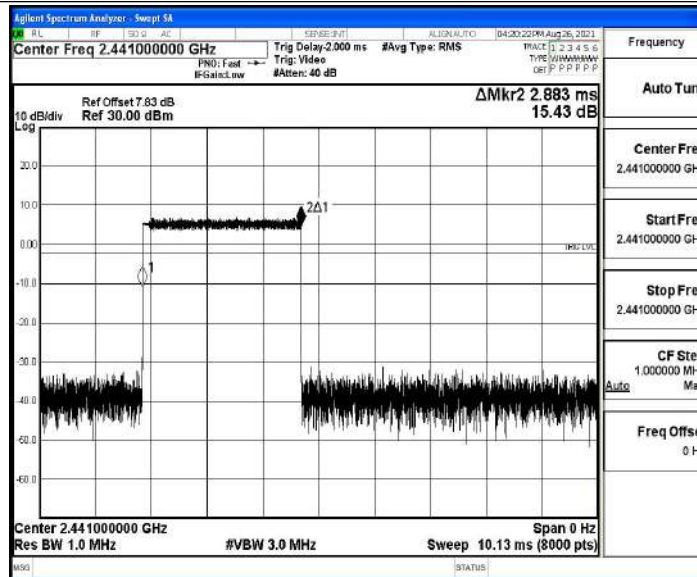


Test Graphs

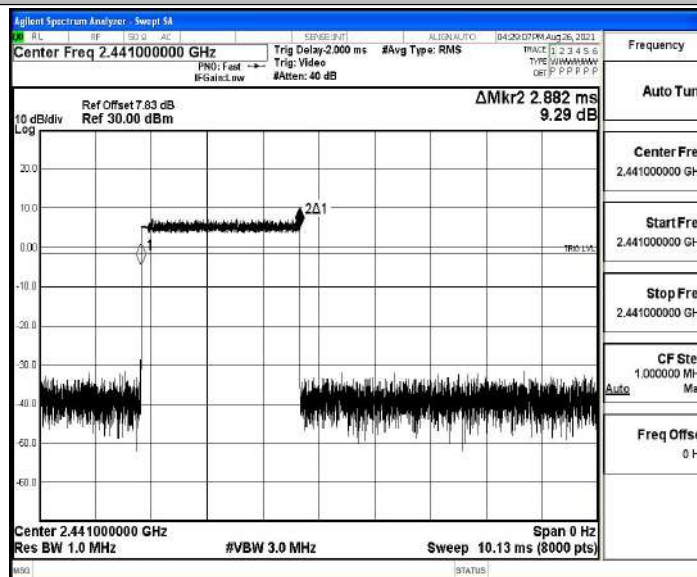
DH5_Ant1_Hop

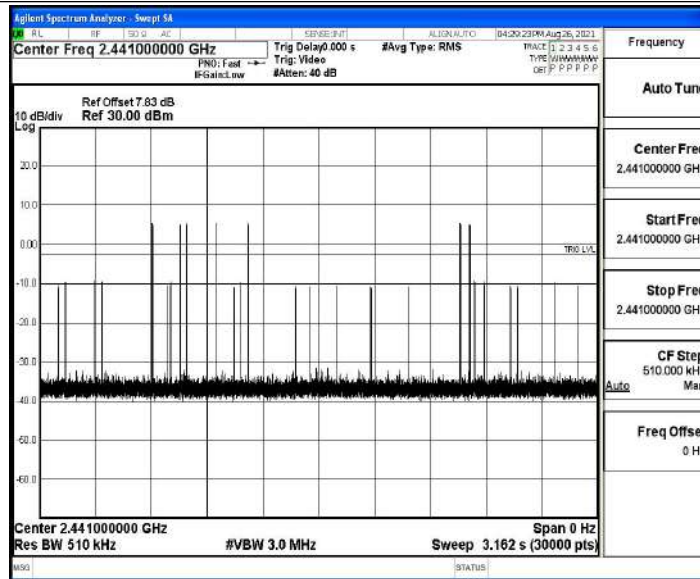


2DH5_Ant1_Hop



3DH5_Ant1_Hop





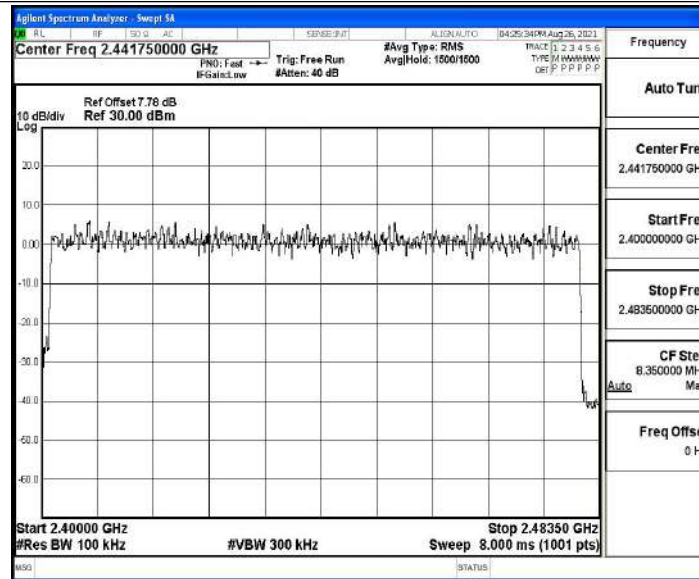


A.5 Number of hopping channels

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







A.6 Band edge measurements

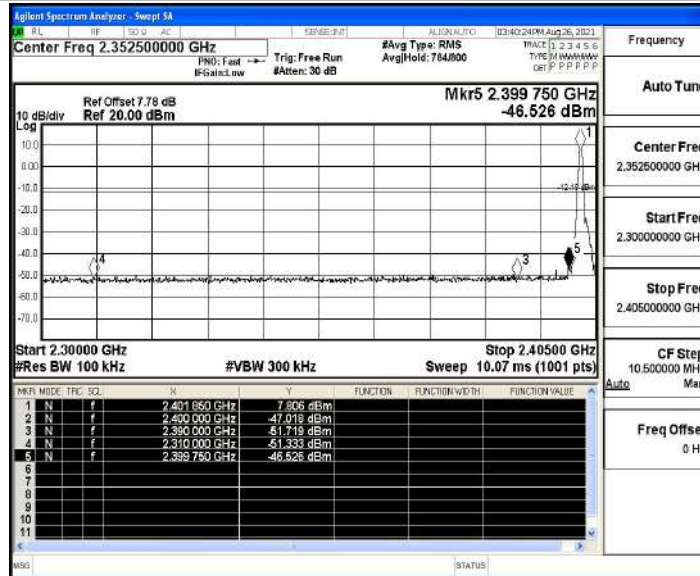
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.81	-46.53	≤ -12.19	PASS
		High	2480	6.16	-48.88	≤ -13.84	PASS
		Low	Hop_2402	7.05	-48.79	≤ -12.95	PASS
		High	Hop_2480	6.33	-48.4	≤ -13.67	PASS
2DH5	Ant1	Low	2402	5.69	-34.86	≤ -14.31	PASS
		High	2480	4.69	-47.87	≤ -15.31	PASS
		Low	Hop_2402	2.73	-49.13	≤ -17.27	PASS
		High	Hop_2480	4.18	-49.01	≤ -15.82	PASS
3DH5	Ant1	Low	2402	5.77	-32.86	≤ -14.23	PASS
		High	2480	4.80	-48.28	≤ -15.2	PASS
		Low	Hop_2402	5.59	-49.78	≤ -14.41	PASS
		High	Hop_2480	2.43	-47.95	≤ -17.57	PASS

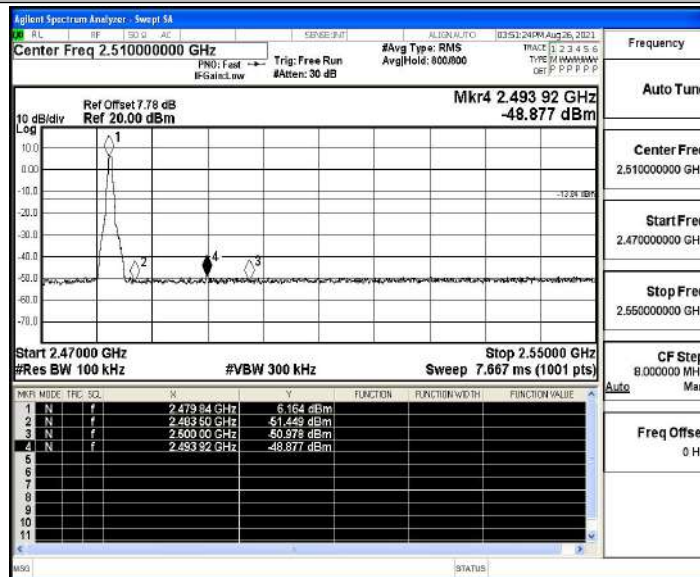


Test Graphs

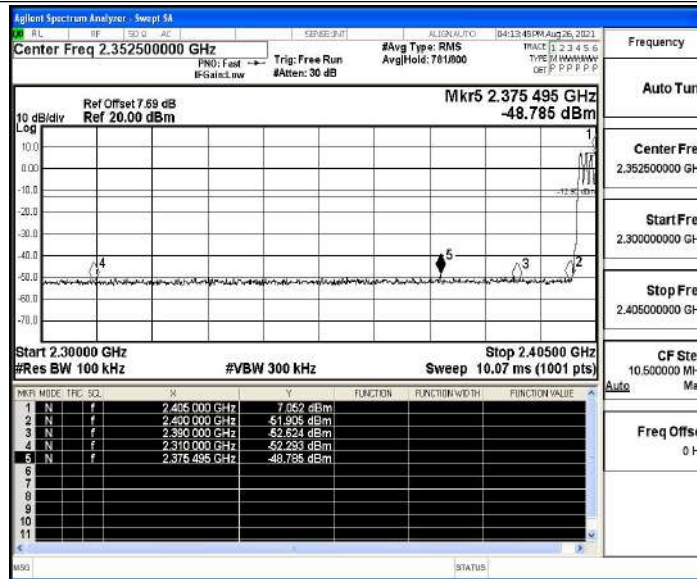
DH5_Ant1_Low_2402



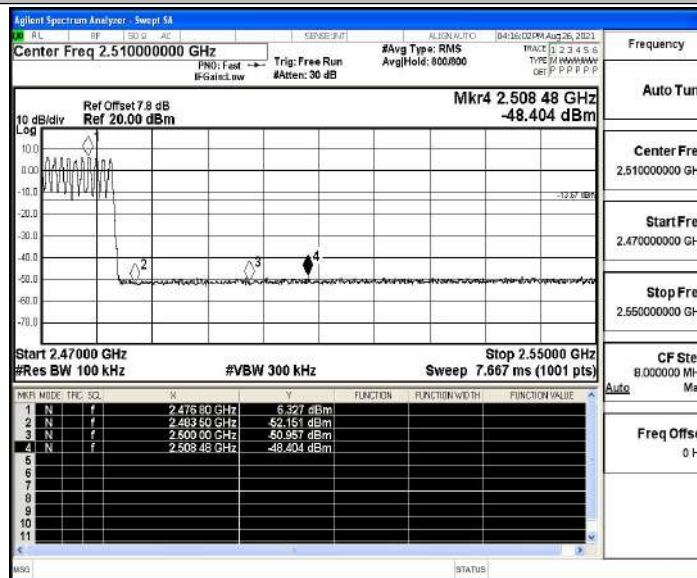
DH5_Ant1_High_2480



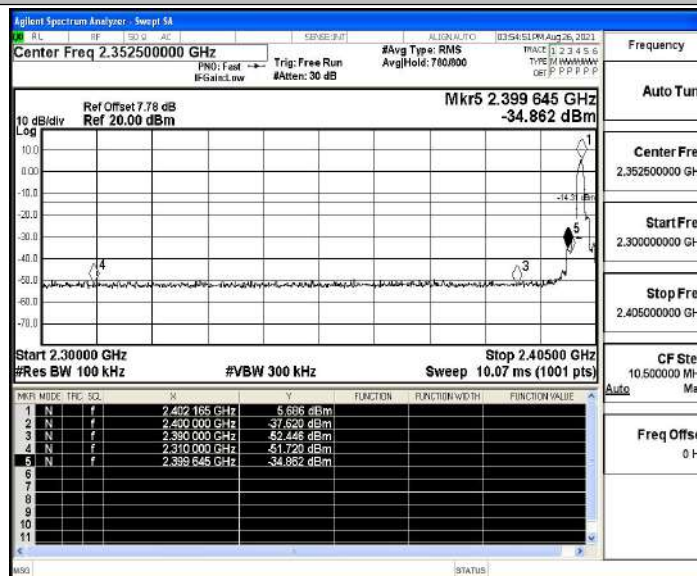
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

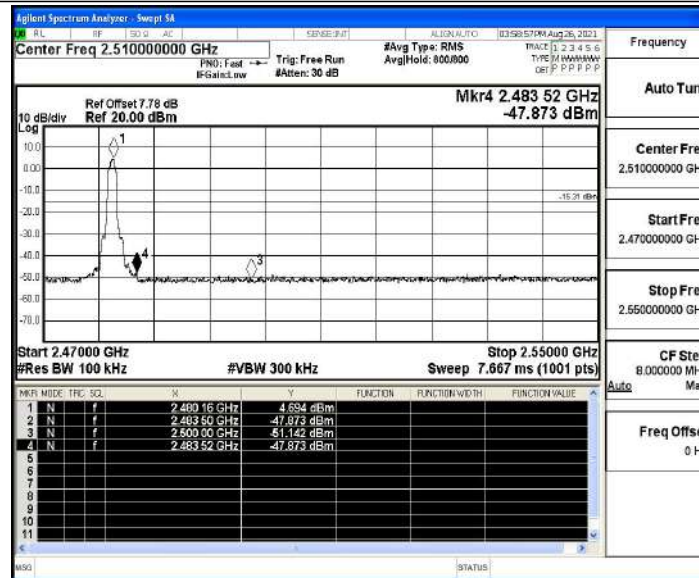


2DH5_Ant1_Low_2402

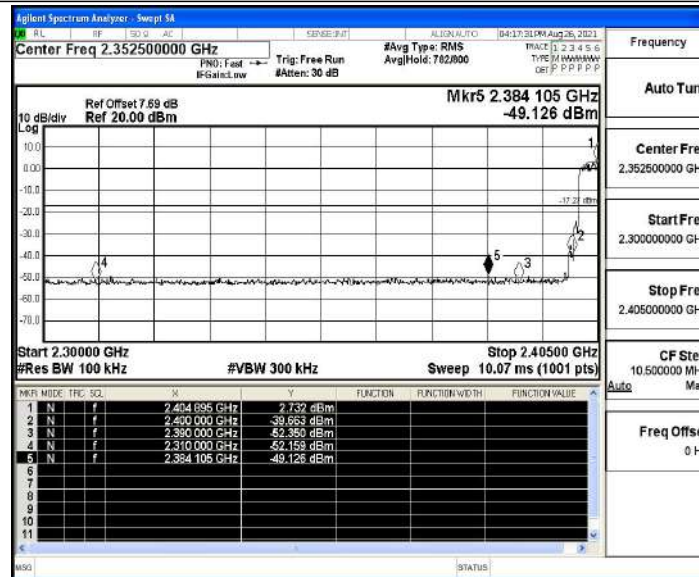




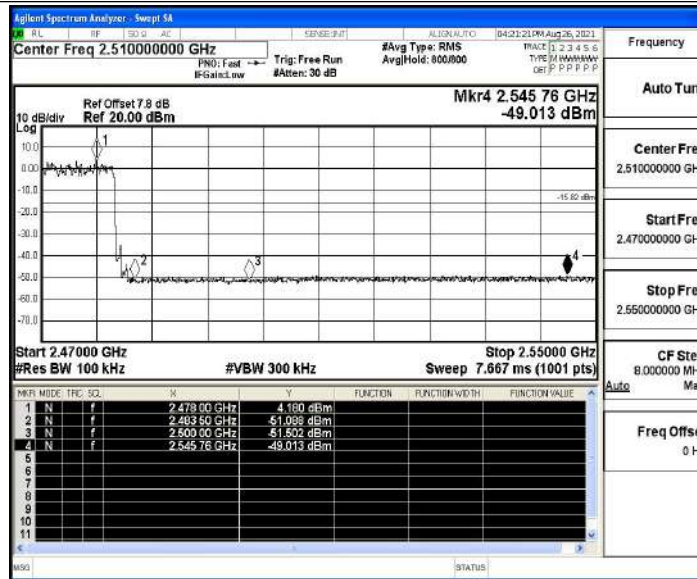
2DH5_Ant1_High_2480



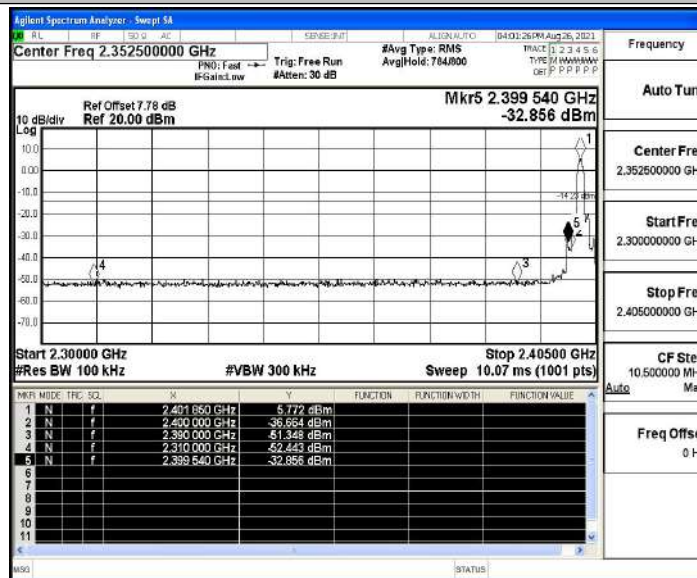
2DH5_Ant1_Low_Hop_2402



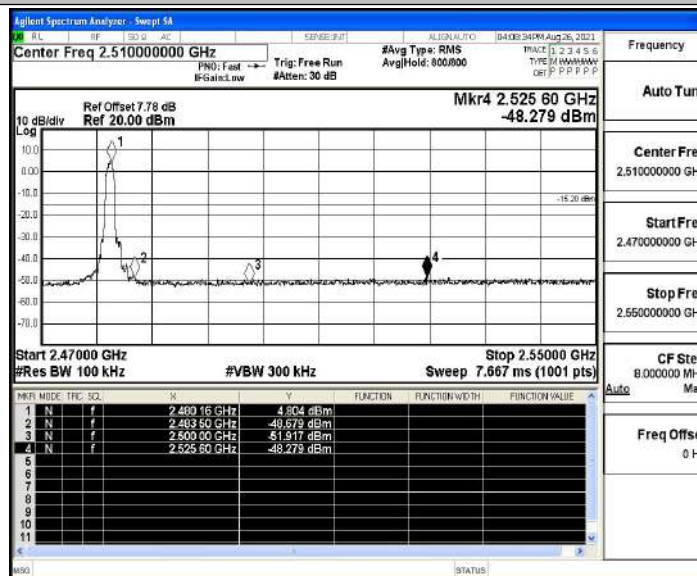
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

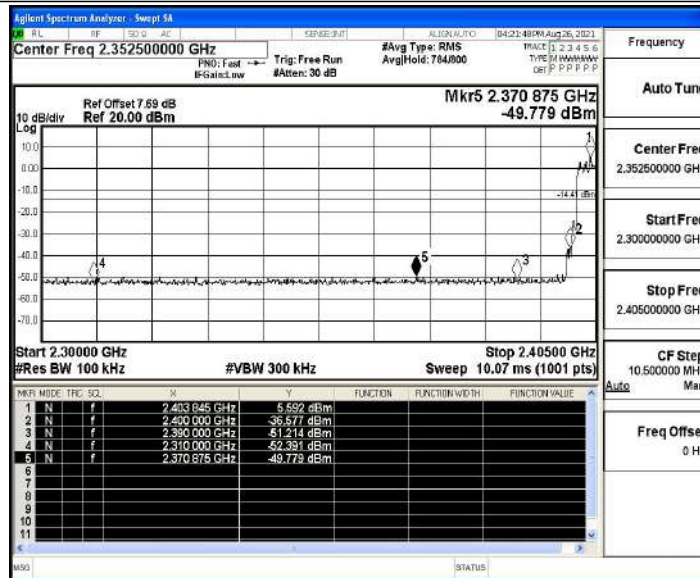


3DH5_Ant1_High_2480

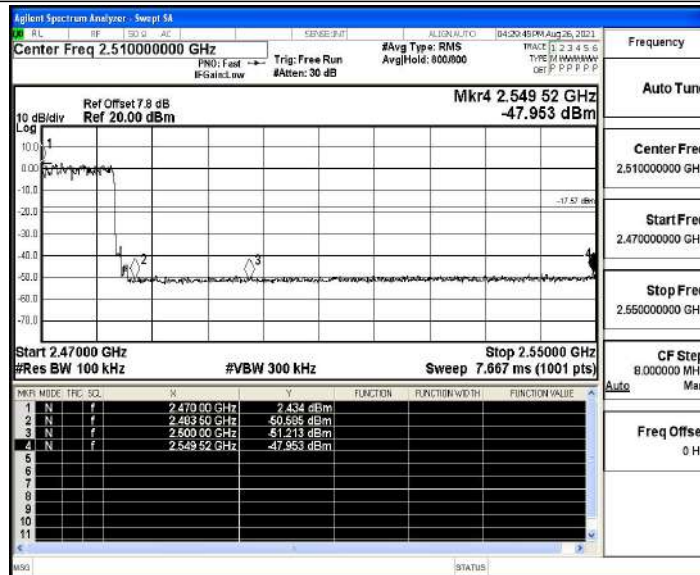




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

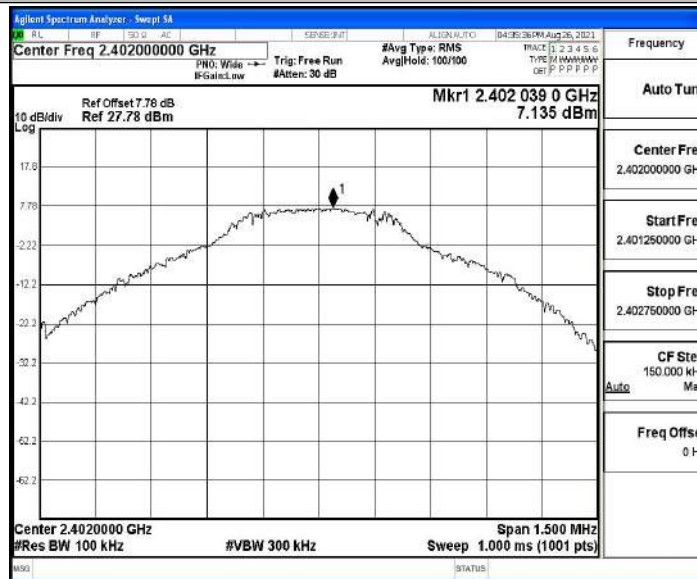
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.14	7.14	---	PASS
			30~1000	7.14	-60.64	≤ -12.87	PASS
			1000~26500	7.14	-47.97	≤ -12.87	PASS
		2441	Reference	6.67	6.67	---	PASS
			30~1000	6.67	-60.64	≤ -13.33	PASS
			1000~26500	6.67	-38.49	≤ -13.33	PASS
		2480	Reference	6.01	6.01	---	PASS
			30~1000	6.01	-60.26	≤ -13.99	PASS
			1000~26500	6.01	-48.01	≤ -13.99	PASS
2DH5	Ant1	2402	Reference	5.07	5.07	---	PASS
			30~1000	5.07	-61.58	≤ -14.93	PASS
			1000~26500	5.07	-47.87	≤ -14.93	PASS
		2441	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-61.03	≤ -17.35	PASS
			1000~26500	2.66	-47.51	≤ -17.35	PASS
		2480	Reference	4.02	4.02	---	PASS
			30~1000	4.02	-59.67	≤ -15.98	PASS
			1000~26500	4.02	-47.39	≤ -15.98	PASS
3DH5	Ant1	2402	Reference	3.41	3.41	---	PASS
			30~1000	3.41	-60.71	≤ -16.59	PASS
			1000~26500	3.41	-47.54	≤ -16.59	PASS
		2441	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-61.36	≤ -16.47	PASS
			1000~26500	3.53	-46.76	≤ -16.47	PASS
		2480	Reference	4.36	4.36	---	PASS
			30~1000	4.36	-61.78	≤ -15.64	PASS
			1000~26500	4.36	-47.55	≤ -15.64	PASS

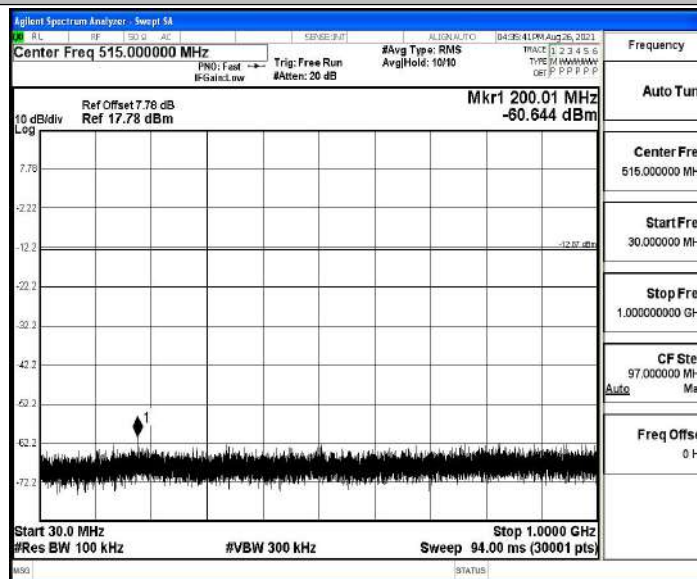


Test Graphs

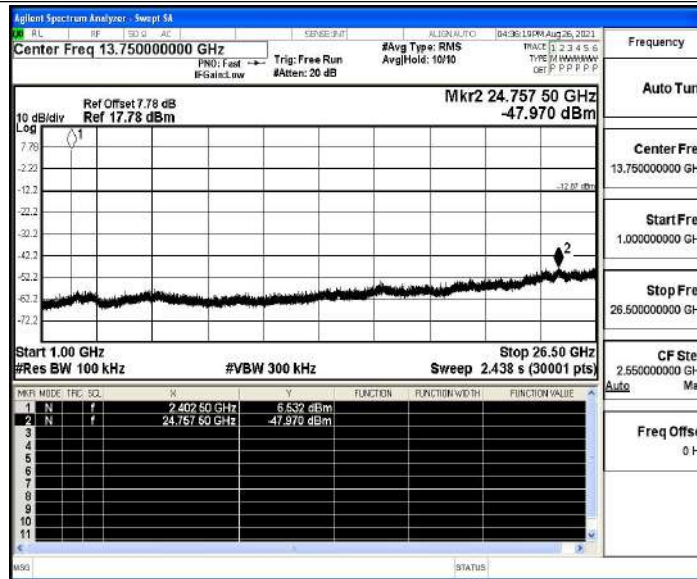
DH5_Ant1_2402_0~Reference



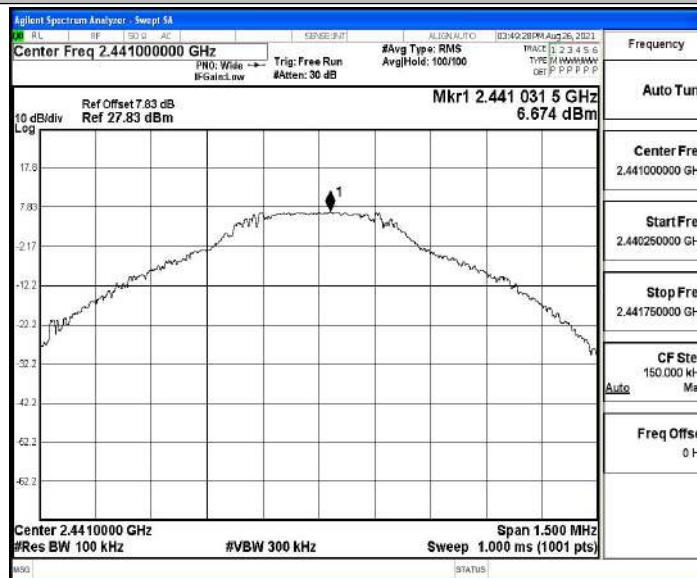
DH5_Ant1_2402_30~1000



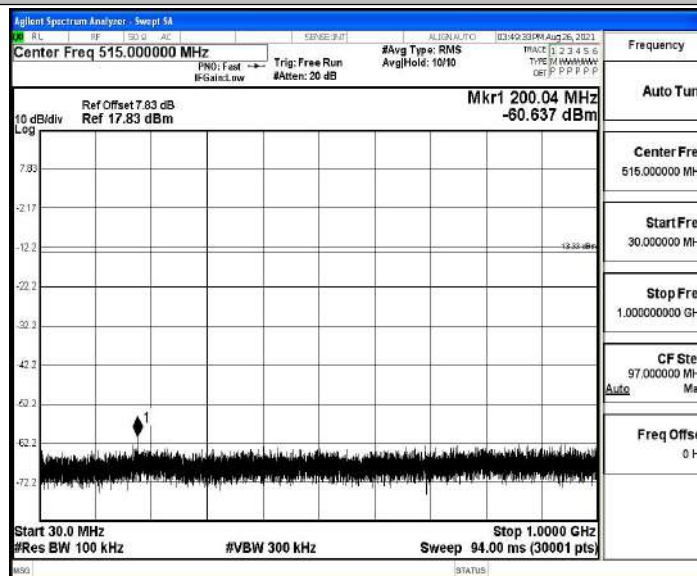
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

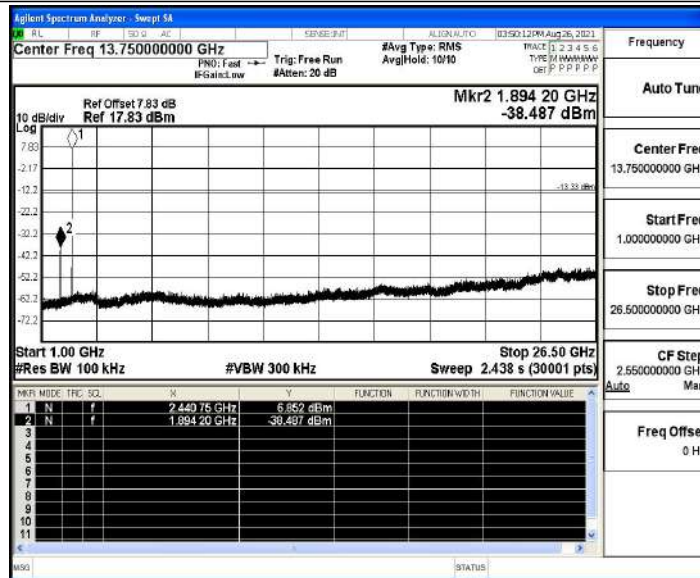


DH5_Ant1_2441_30~1000

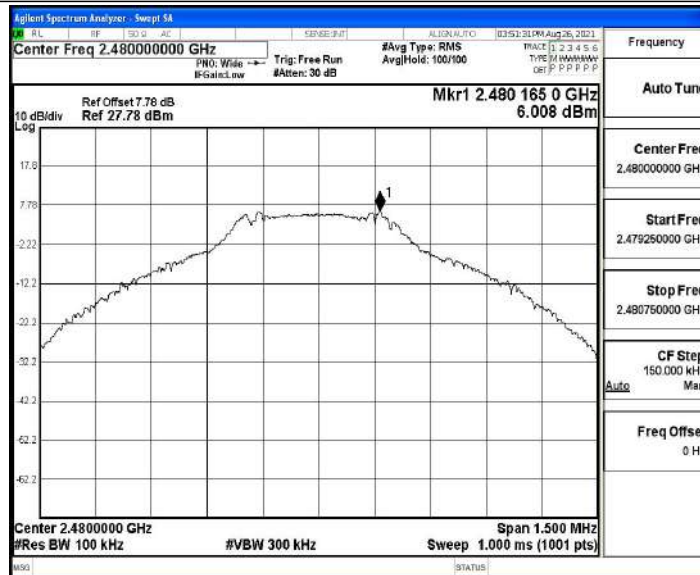




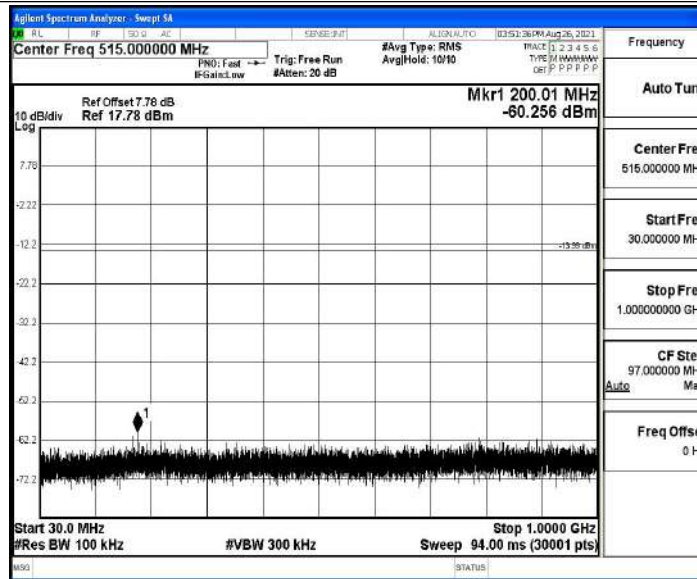
DH5_Ant1_2441_1000~26500



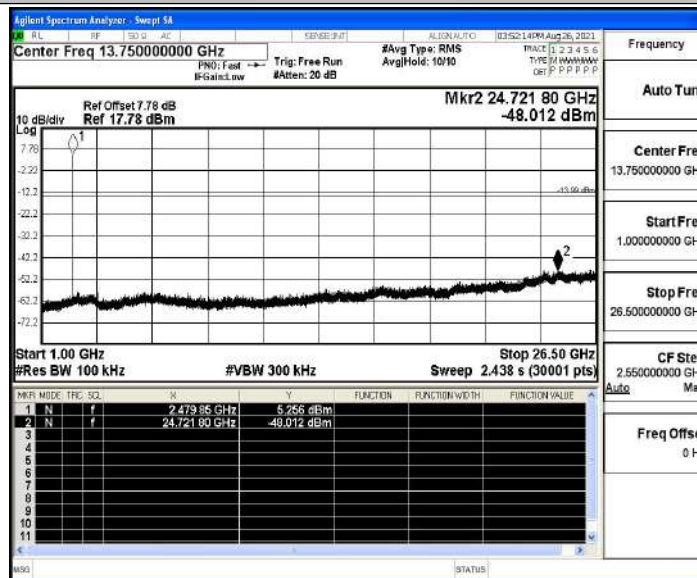
DH5_Ant1_2480_0~Reference



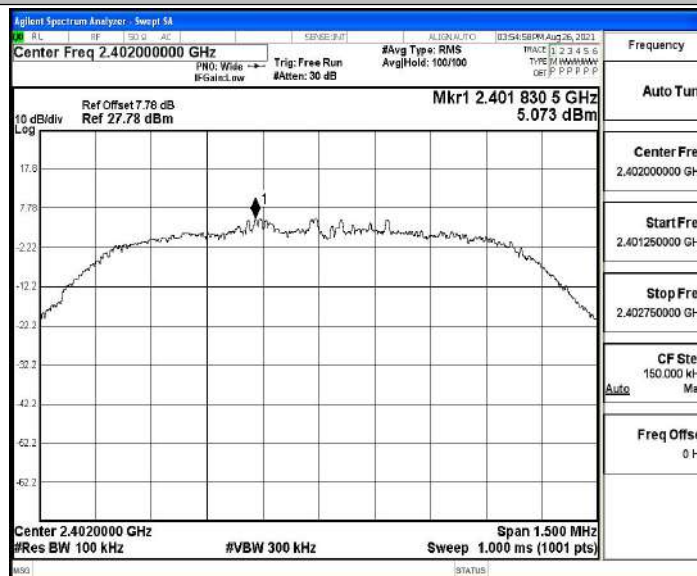
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

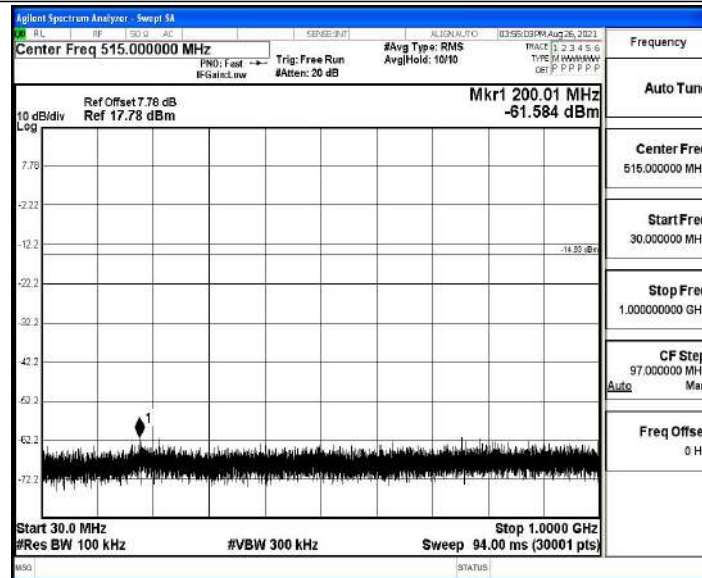


2DH5_Ant1_2402_0~Reference

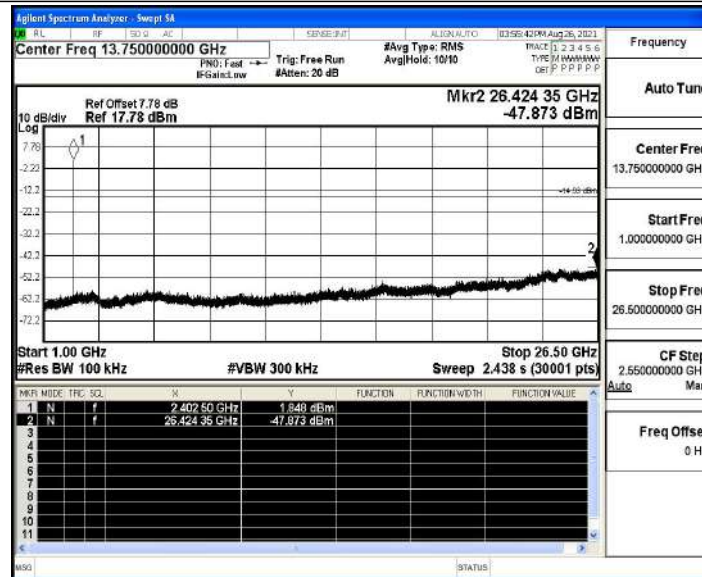




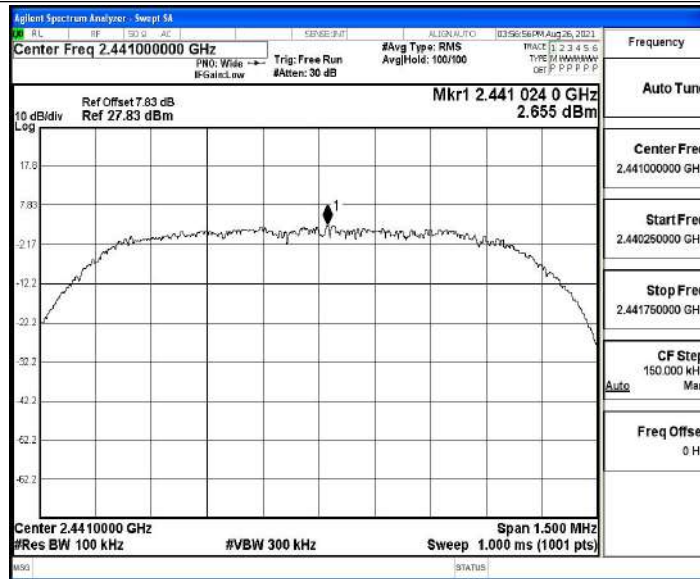
2DH5_Ant1_2402_30~1000



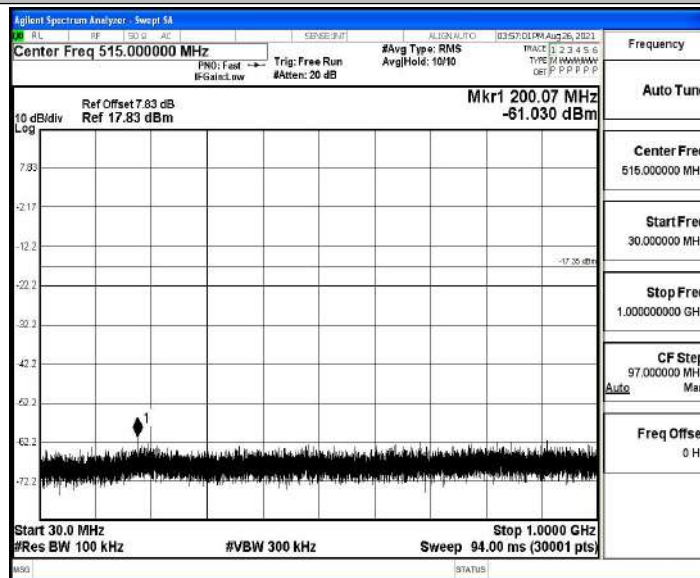
2DH5_Ant1_2402_1000~26500



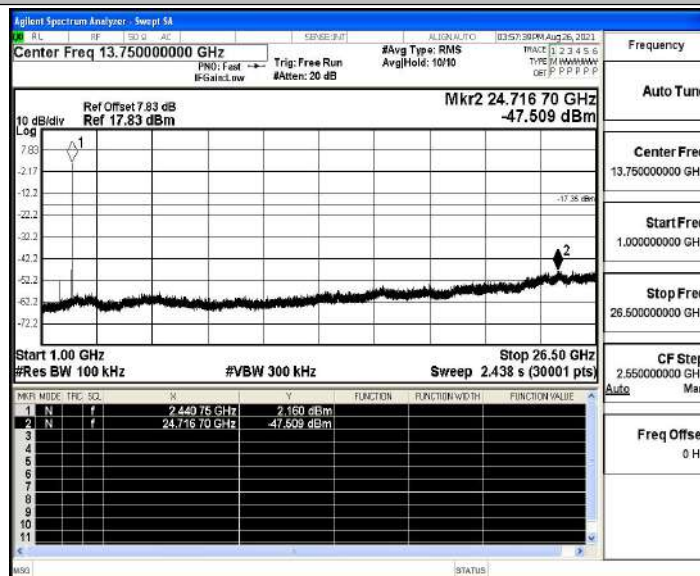
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

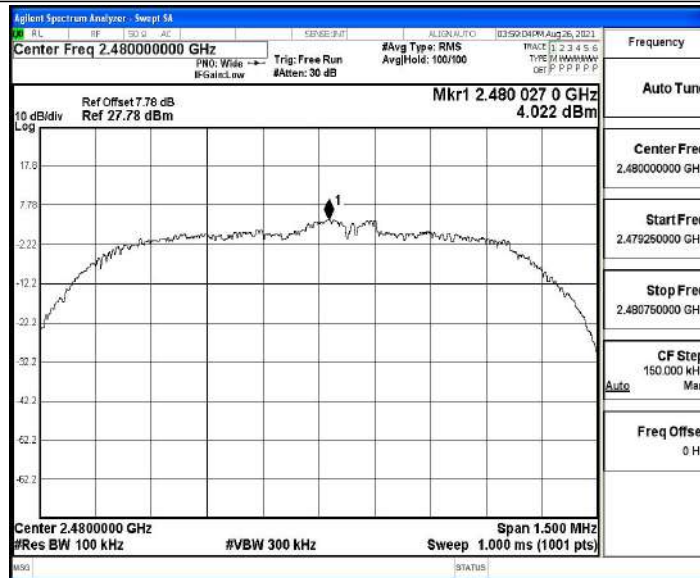


2DH5_Ant1_2441_1000~26500

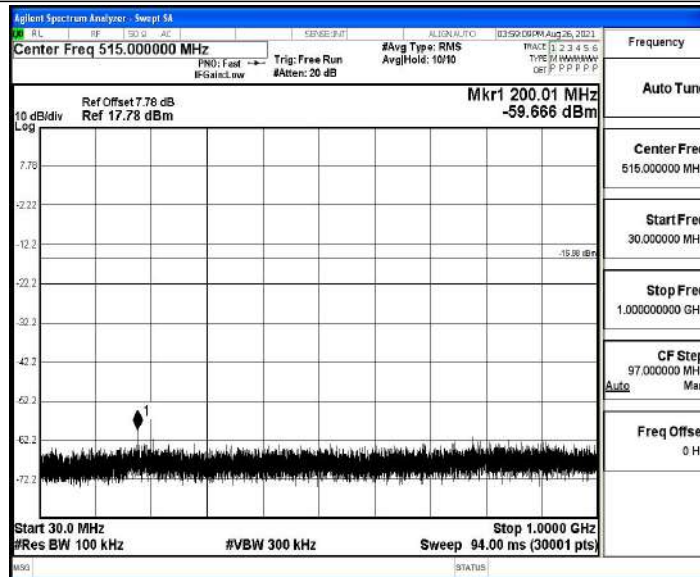




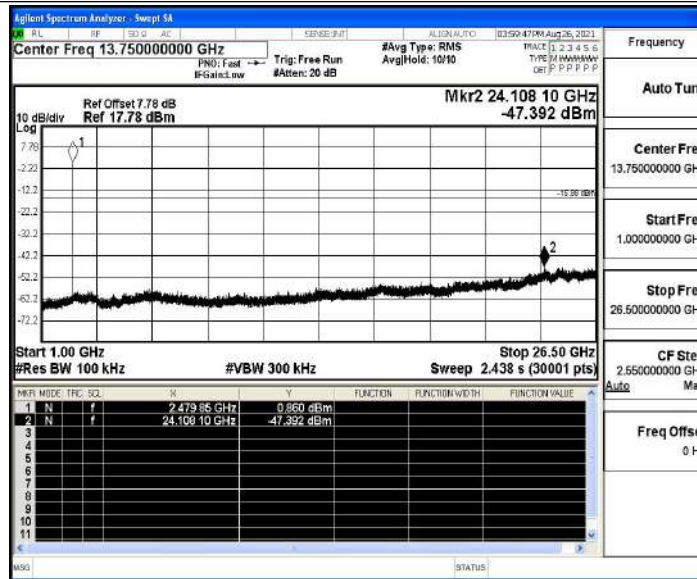
2DH5_Ant1_2480_0~Reference



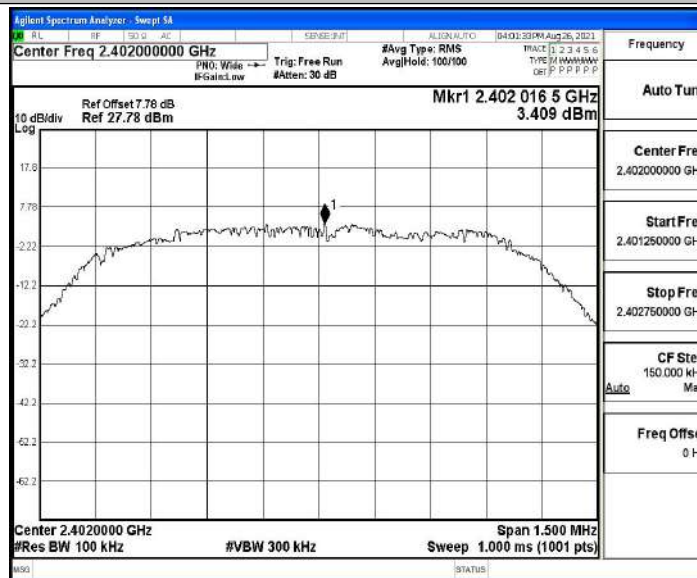
2DH5_Ant1_2480_30~1000



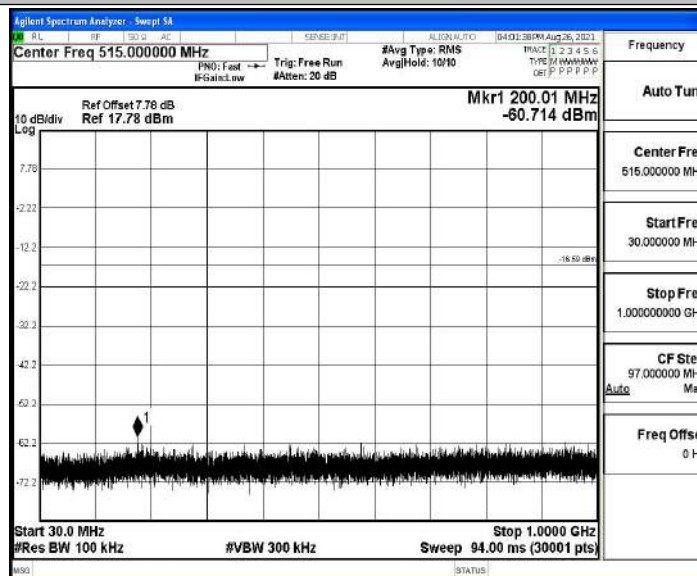
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

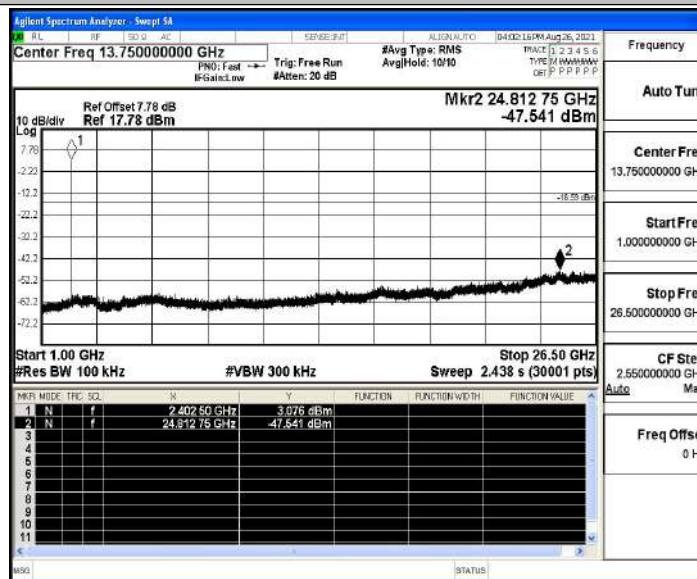


3DH5_Ant1_2402_30~1000

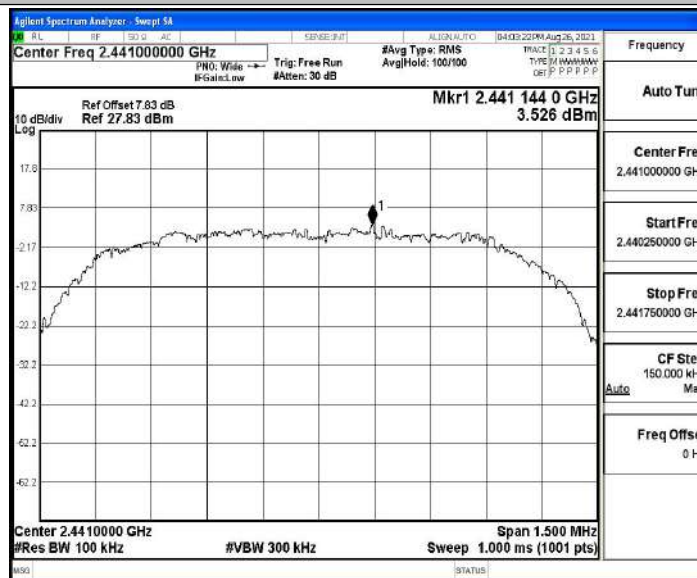




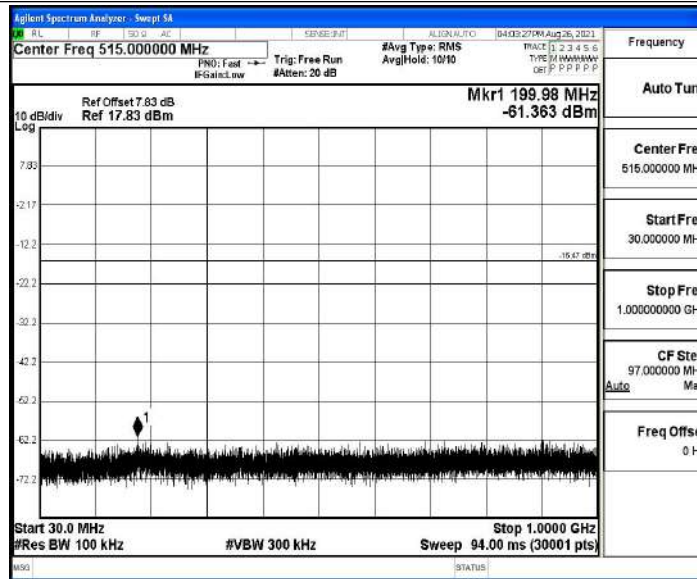
3DH5_Ant1_2402_1000~26500



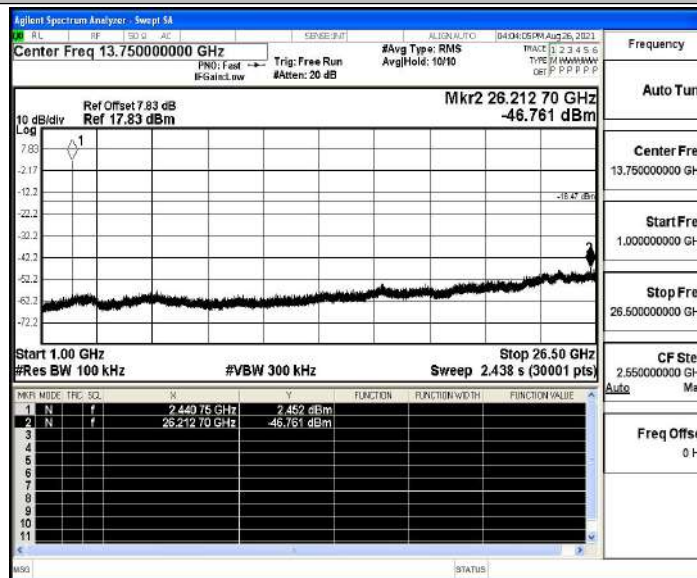
3DH5_Ant1_2441_0~Reference



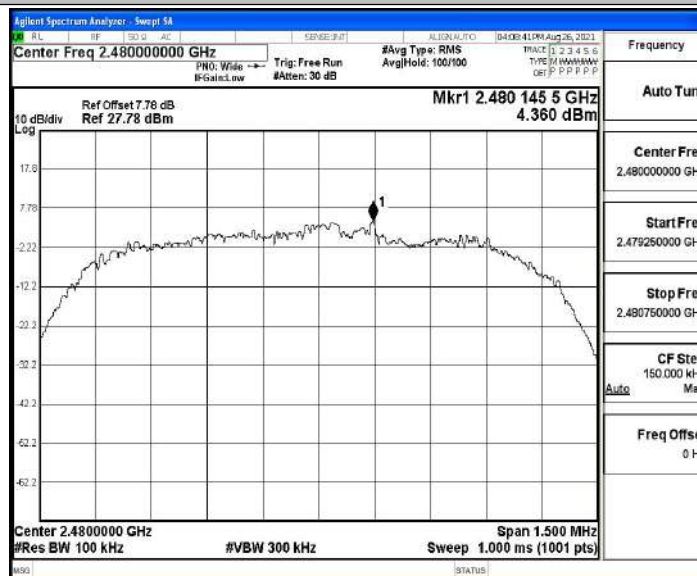
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

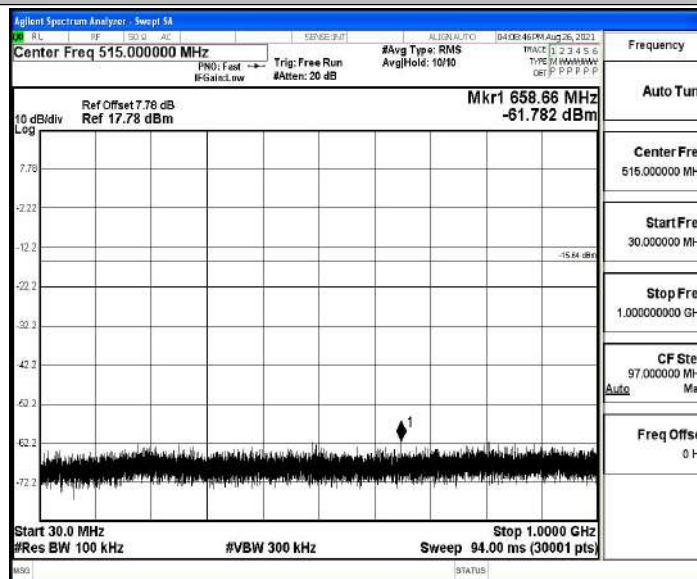


3DH5_Ant1_2480_0~Reference

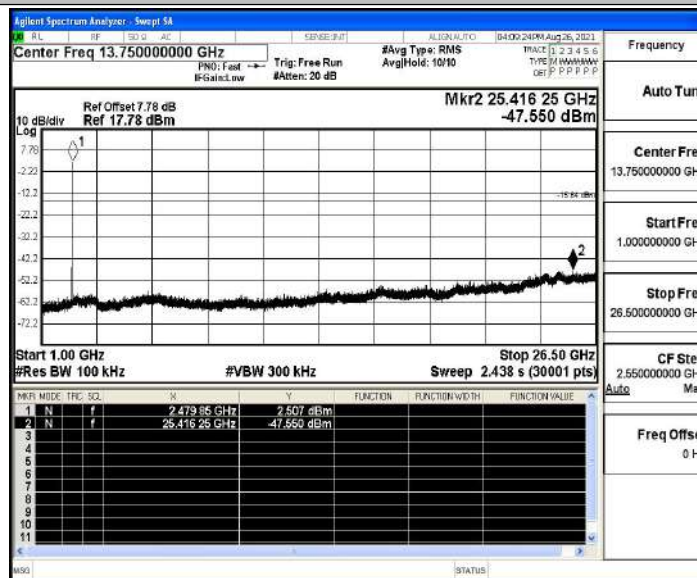




3DH5_Ant1_2480_30~1000



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	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2388.200	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2390.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2310.000	-40.37	≤-21.20	54.83	≤74	PASS
				Peak	2371.400	-38.25	≤-21.20	56.95	≤74	PASS
				Peak	2390.000	-40.34	≤-21.20	54.86	≤74	PASS
		High	2480	AV	2483.500	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2483.520	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2500.000	-48.01	≤-41.20	47.19	≤54	PASS
				Peak	2483.500	-40.07	≤-21.20	55.13	≤74	PASS
				Peak	2497.040	-38	≤-21.20	57.20	≤74	PASS
				Peak	2500.000	-40.34	≤-21.20	54.86	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49	≤-41.20	46.20	≤54	PASS
				AV	2388.935	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2390.000	-48.67	≤-41.20	46.53	≤54	PASS
				Peak	2310.000	-41.31	≤-21.20	53.89	≤74	PASS
				Peak	2383.370	-37.75	≤-21.20	57.45	≤74	PASS
				Peak	2390.000	-41.28	≤-21.20	53.92	≤74	PASS
		High	2480	AV	2483.500	-46.12	≤-41.20	49.08	≤54	PASS
				AV	2483.520	-46.12	≤-41.20	49.08	≤54	PASS
				AV	2500.000	-48.03	≤-41.20	47.17	≤54	PASS
				Peak	2483.500	-37.25	≤-21.20	57.95	≤74	PASS
				Peak	2483.600	-36.52	≤-21.20	58.68	≤74	PASS
				Peak	2500.000	-39.94	≤-21.20	55.26	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2389.355	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2390.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2310.000	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2383.685	-38.28	≤-21.20	56.92	≤74	PASS
				Peak	2390.000	-40.59	≤-21.20	54.61	≤74	PASS
		High	2480	AV	2483.500	-45.61	≤-41.20	49.59	≤54	PASS
				AV	2483.520	-45.61	≤-41.20	49.59	≤54	PASS
				AV	2500.000	-48.02	≤-41.20	47.18	≤54	PASS
				Peak	2483.500	-36.31	≤-21.20	58.89	≤74	PASS
				Peak	2483.520	-36.31	≤-21.20	58.89	≤74	PASS
				Peak	2500.000	-40.16	≤-21.20	55.04	≤74	PASS



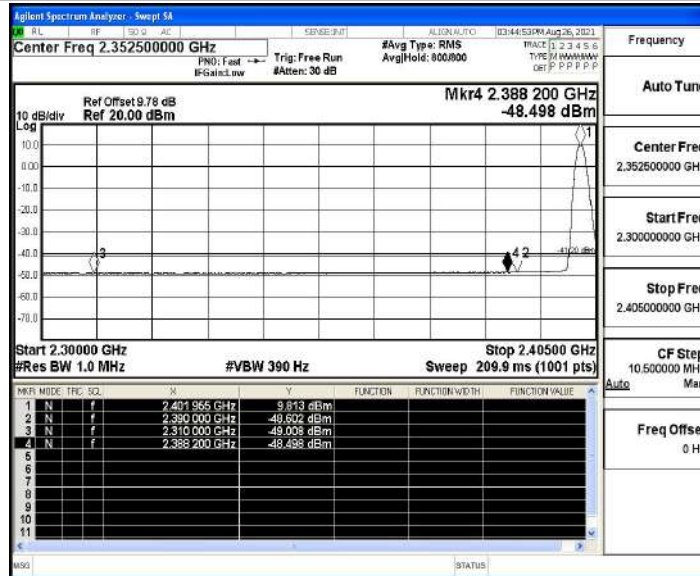
Note:

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.

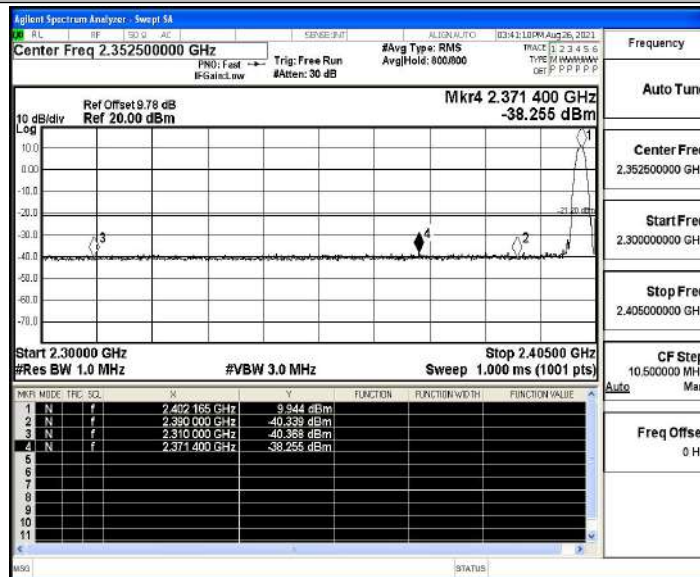


Test Graphs

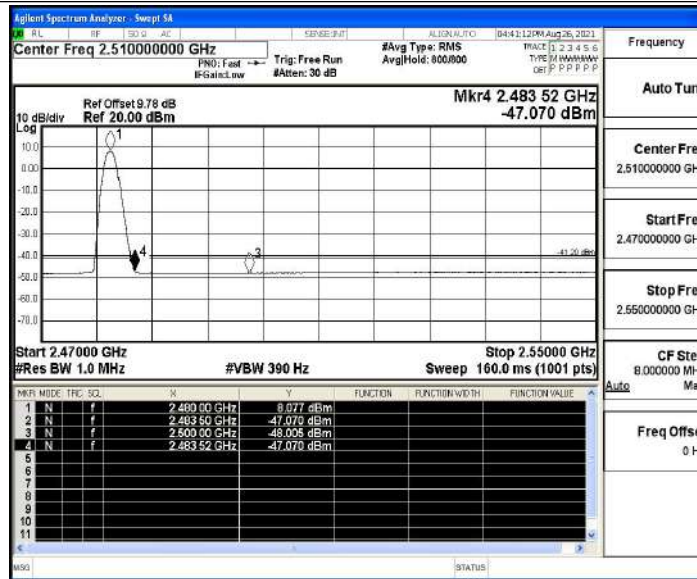
DH5_Ant1_Low_2402_AV



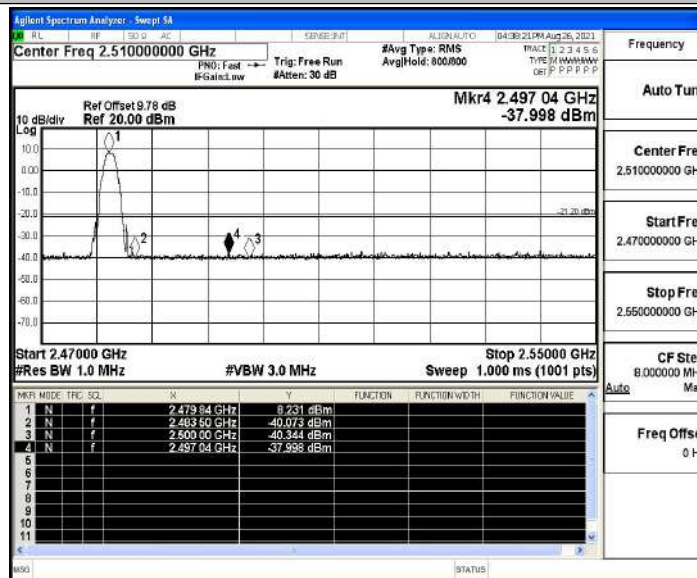
DH5_Ant1_Low_2402_Peak



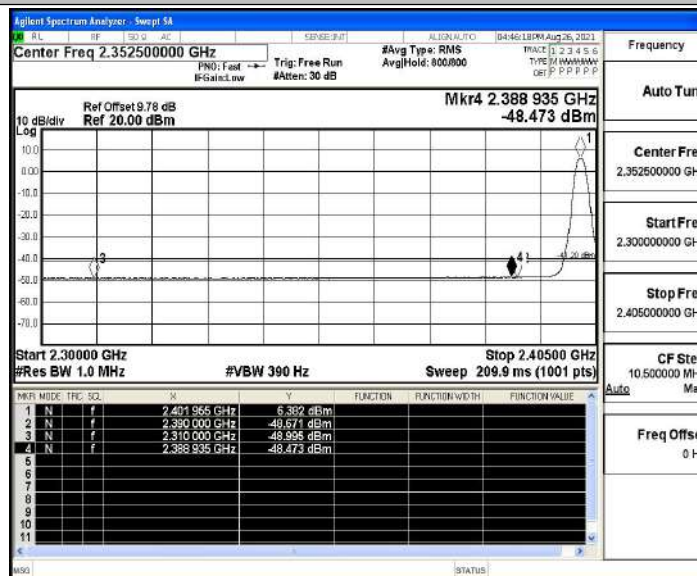
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

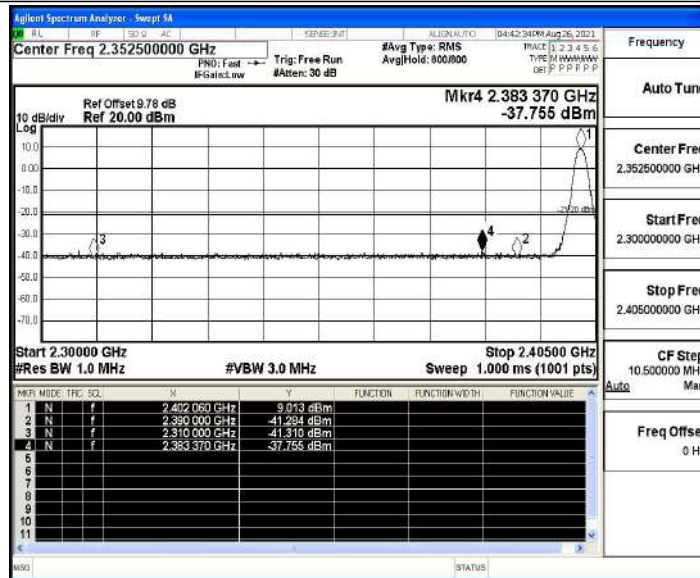


2DH5_Ant1_Low_2402_AV

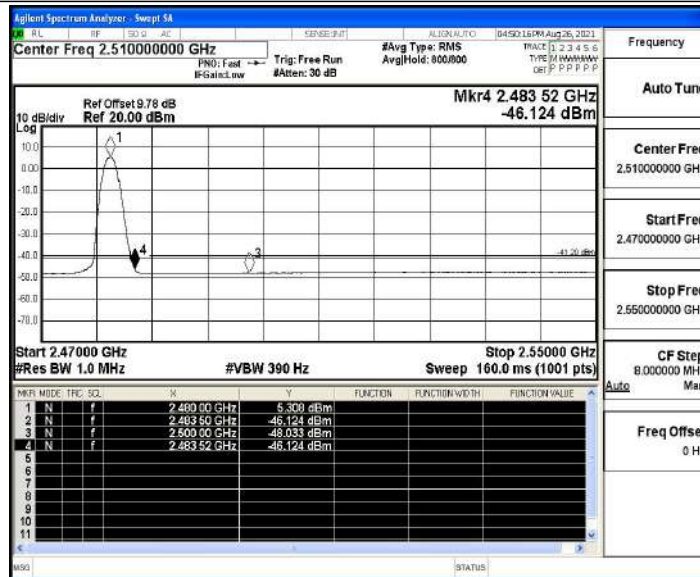




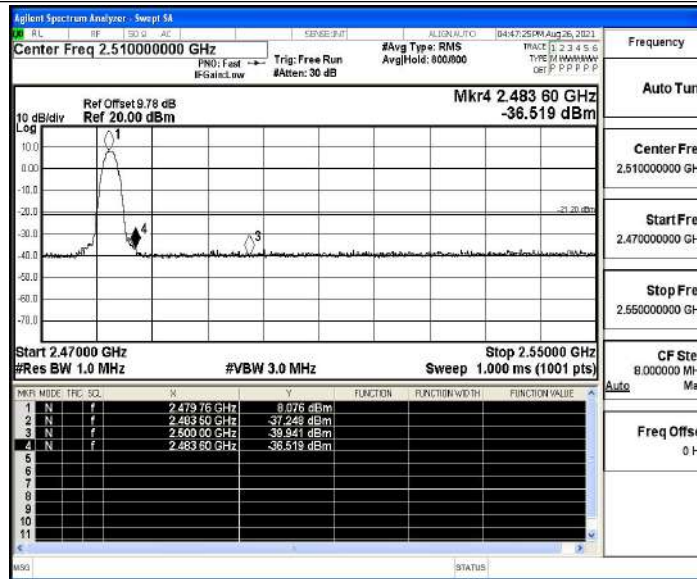
2DH5_Ant1_Low_2402_Peak



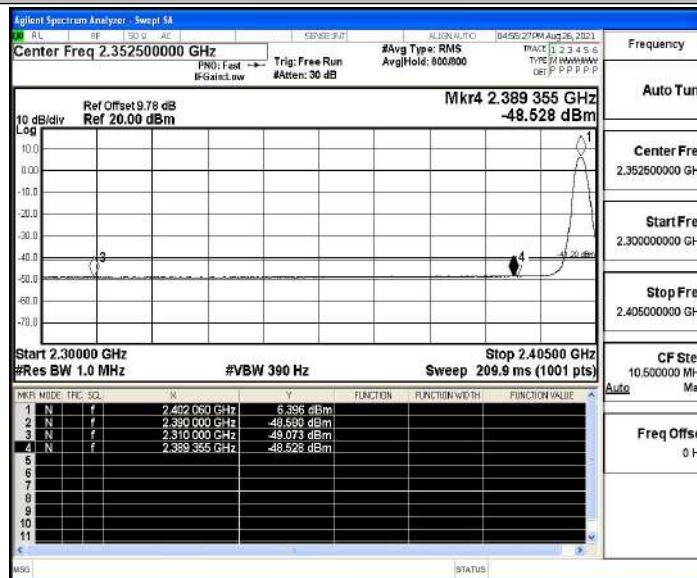
2DH5_Ant1_High_2480_AV



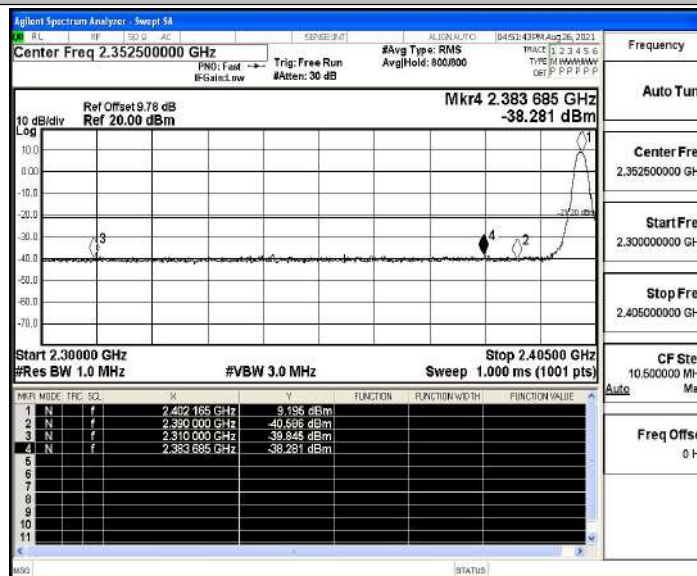
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

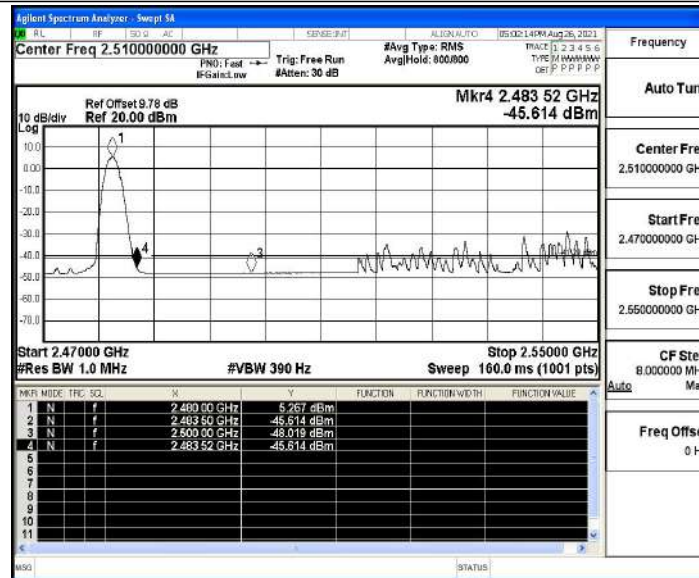


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

