



Appendix A

RF Test Data for BT V4.1 (DSS) (Conducted Measurement)

Product Name: TABLET PC

Test Model: BELLATRIX

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan



A.1 20dB Emission Bandwidth

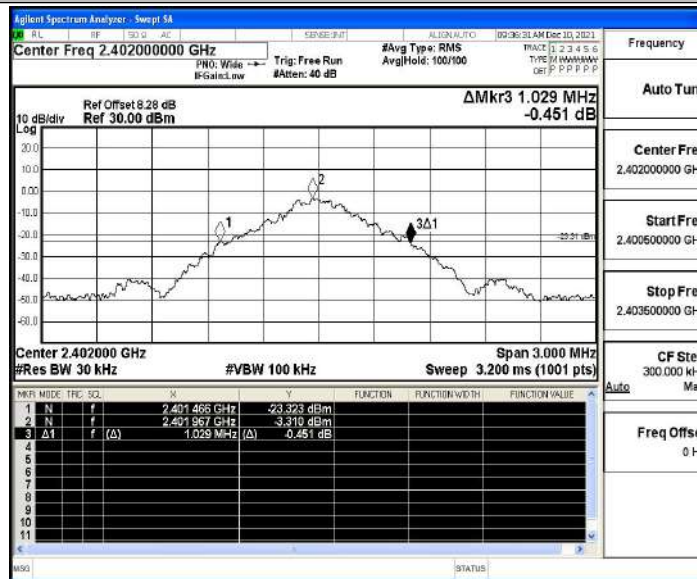
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.466	2402.495	---	PASS
		2441	1.032	2440.466	2441.498	---	PASS
		2480	1.029	2479.463	2480.492	---	PASS
2DH5	Ant1	2402	1.332	2401.325	2402.657	---	PASS
		2441	1.344	2440.322	2441.666	---	PASS
		2480	1.290	2479.352	2480.642	---	PASS
3DH5	Ant1	2402	1.305	2401.337	2402.642	---	PASS
		2441	1.323	2440.331	2441.654	---	PASS
		2480	1.314	2479.337	2480.651	---	PASS

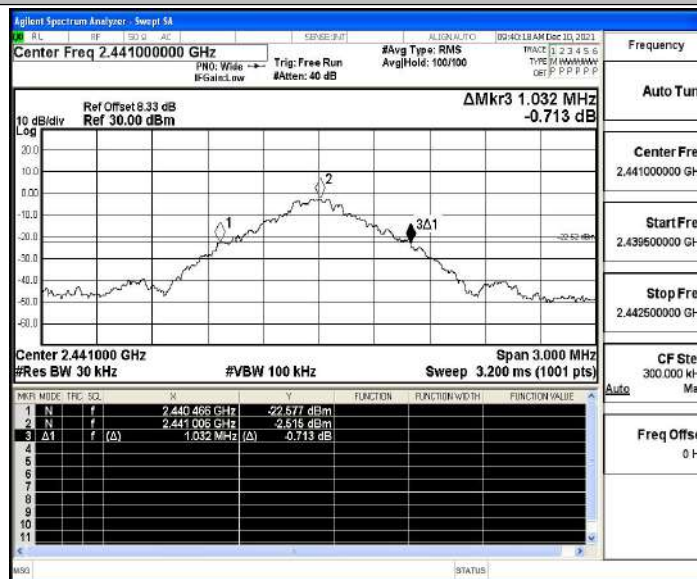


Test Graphs

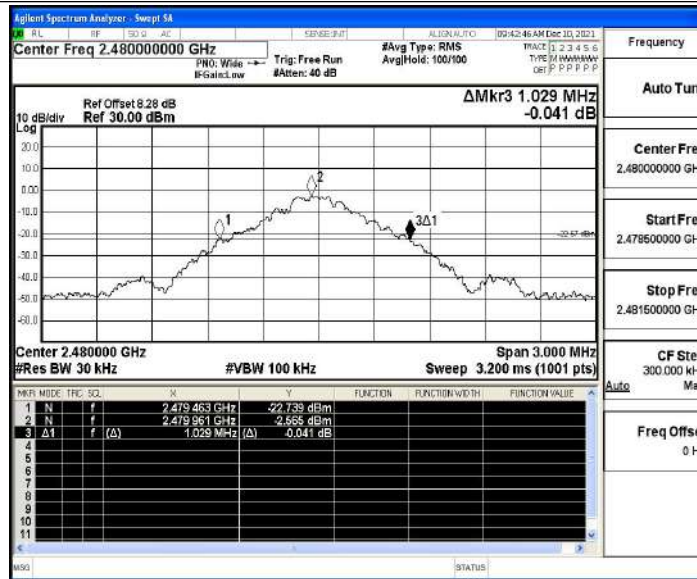
DH5_Ant1_2402



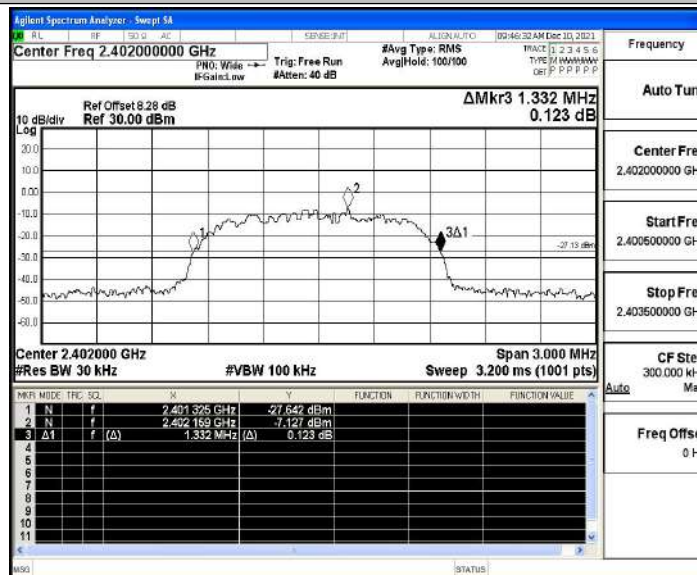
DH5_Ant1_2441



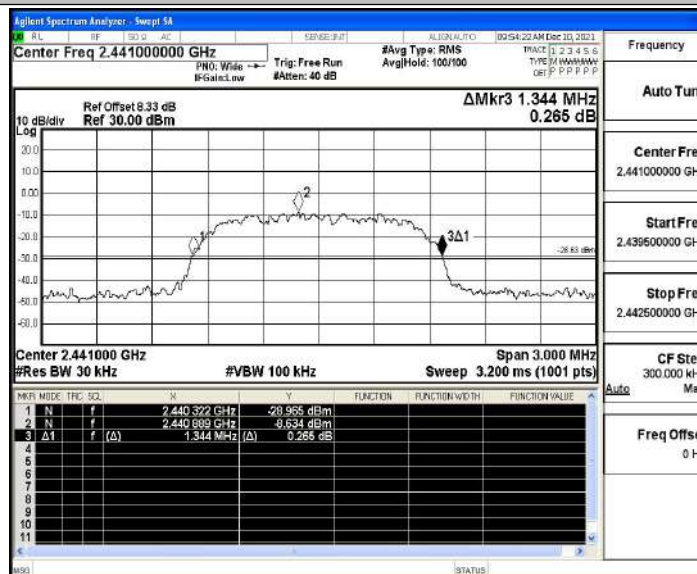
DH5_Ant1_2480



2DH5_Ant1_2402

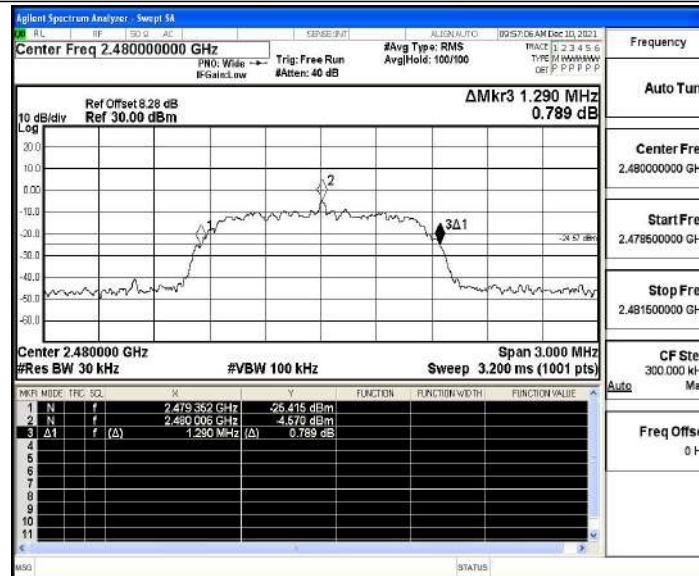


2DH5_Ant1_2441

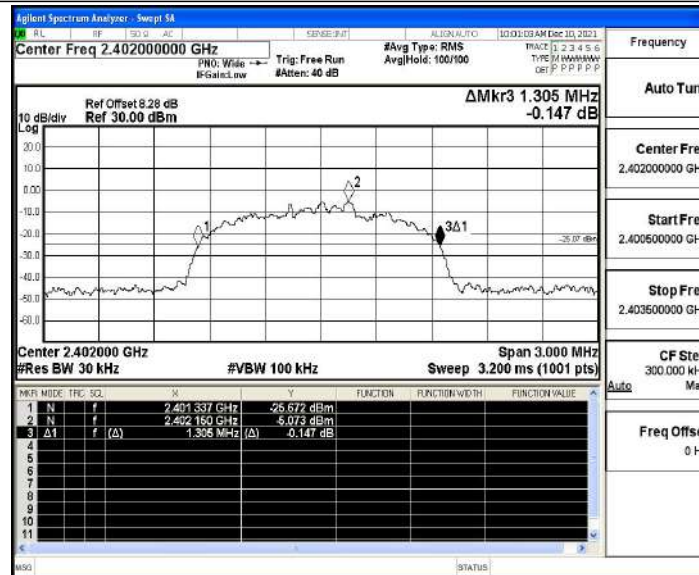




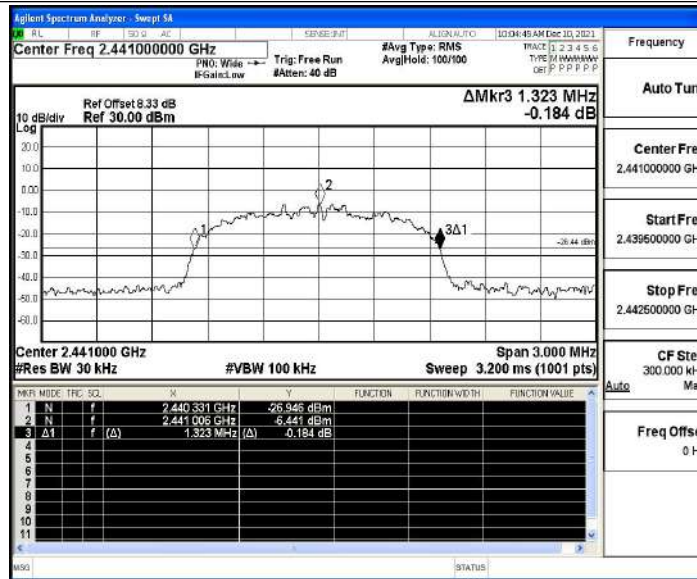
2DH5_Ant1_2480



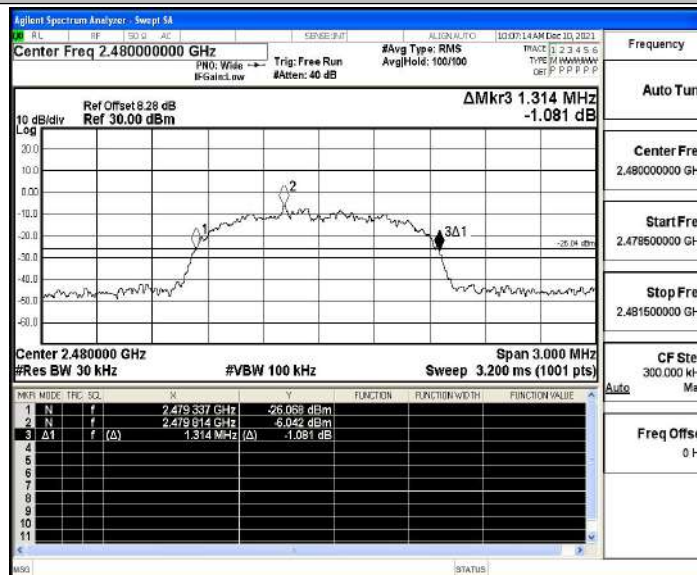
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum peak conducted output power

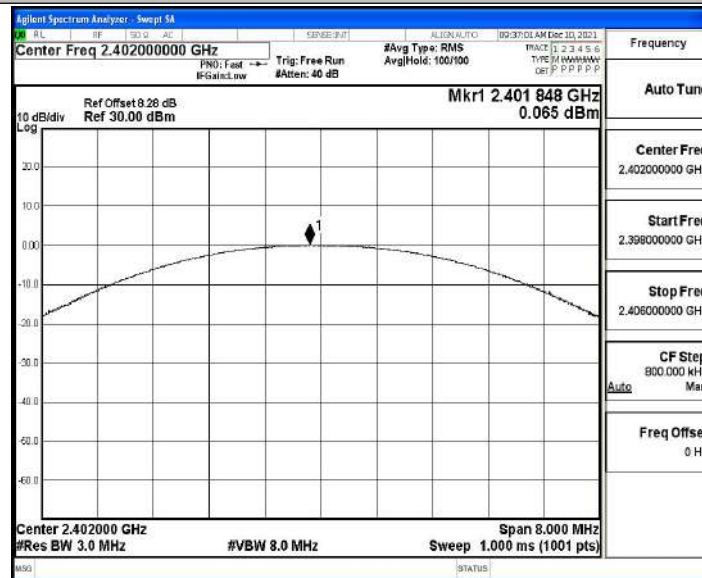
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.07	≤20.97	PASS
		2441	0.49	≤20.97	PASS
		2480	0.57	≤20.97	PASS
2DH5	Ant1	2402	-0.33	≤20.97	PASS
		2441	0.21	≤20.97	PASS
		2480	0.12	≤20.97	PASS
3DH5	Ant1	2402	-0.28	≤20.97	PASS
		2441	0.22	≤20.97	PASS
		2480	0.29	≤20.97	PASS

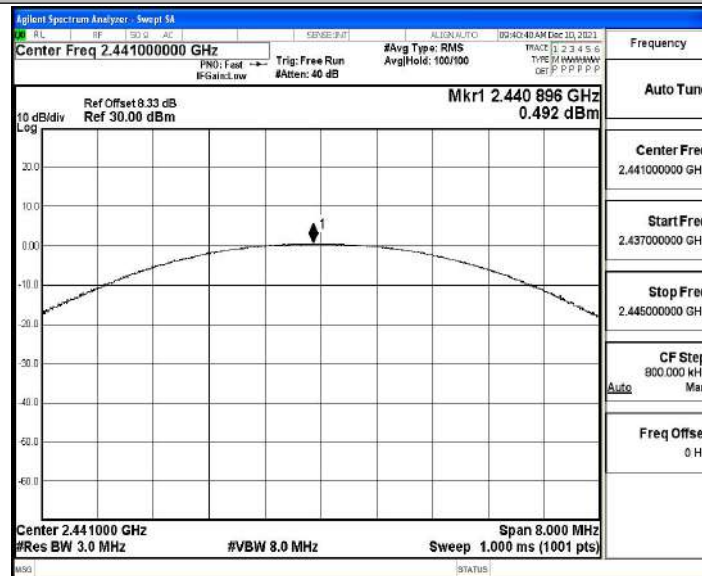


Test Graphs

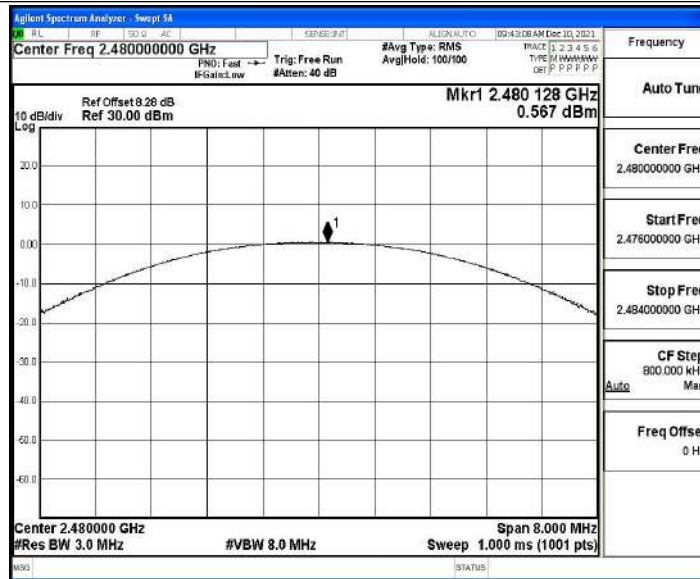
DH5_Ant1_2402



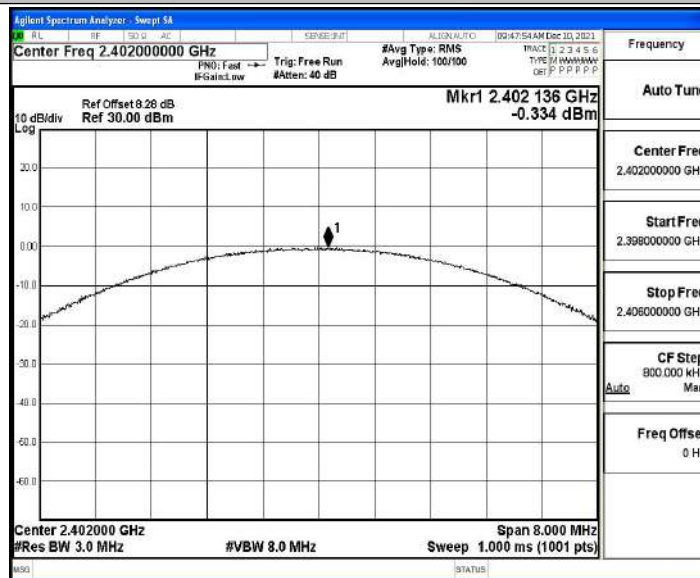
DH5_Ant1_2441



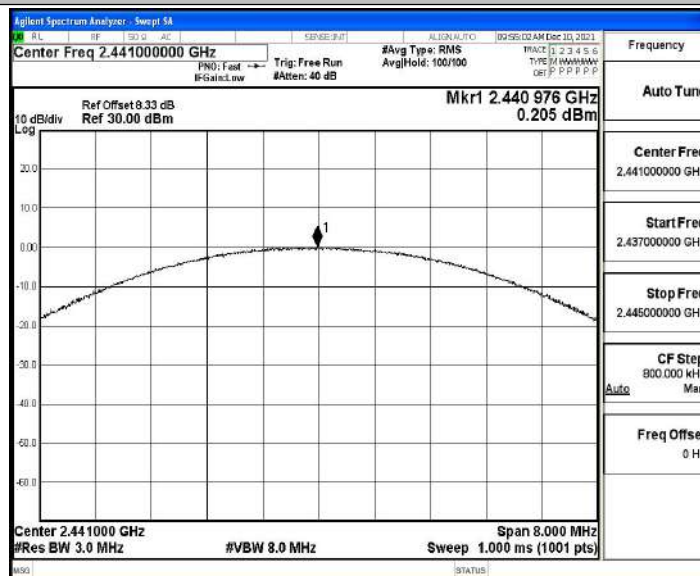
DH5_Ant1_2480



2DH5_Ant1_2402

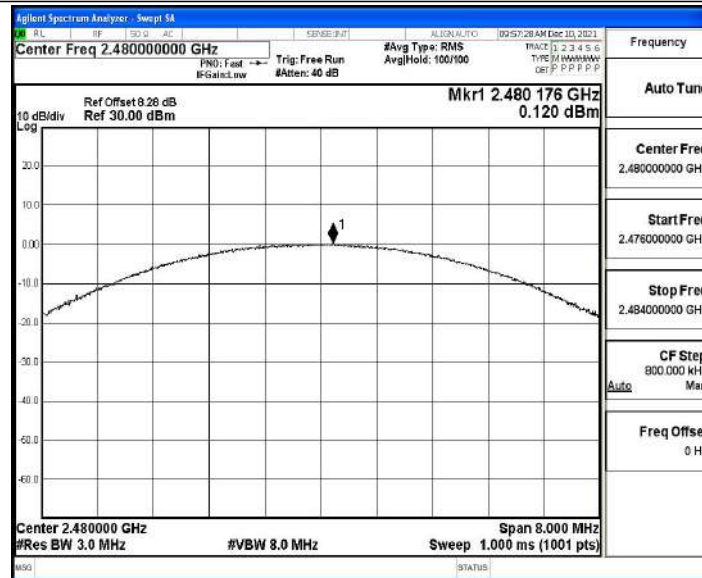


2DH5_Ant1_2441

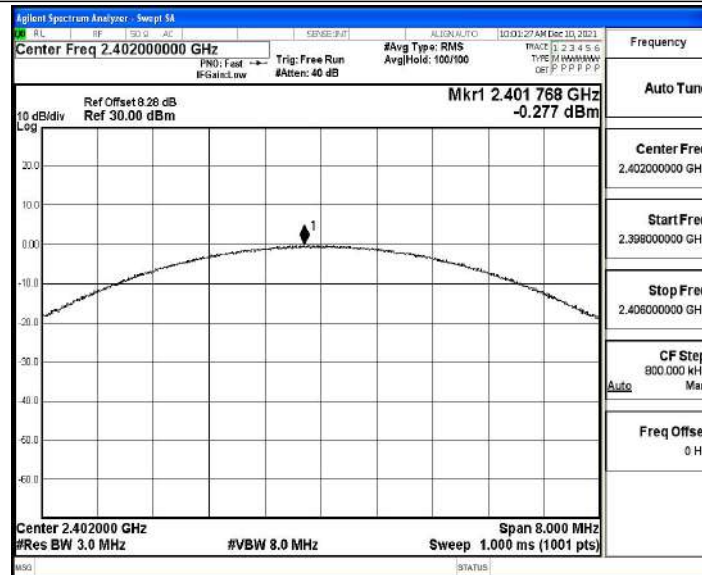




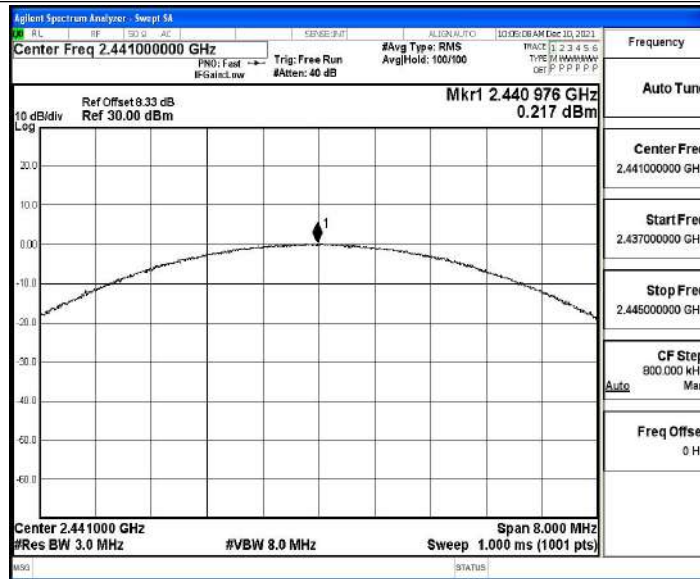
2DH5_Ant1_2480



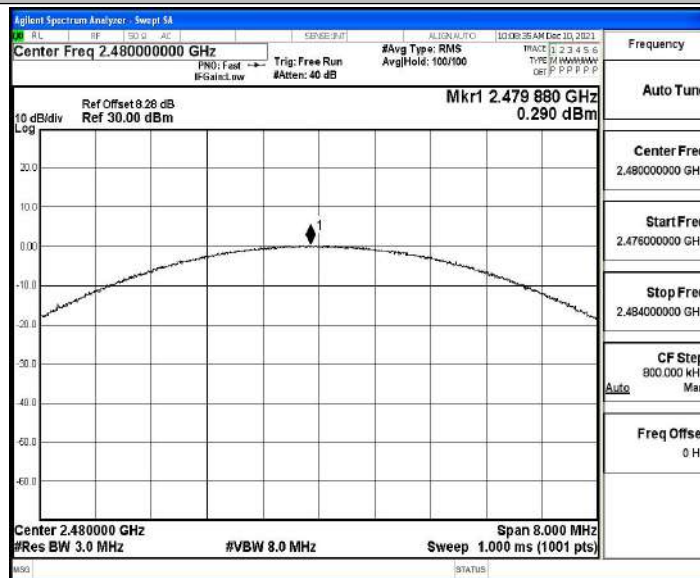
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

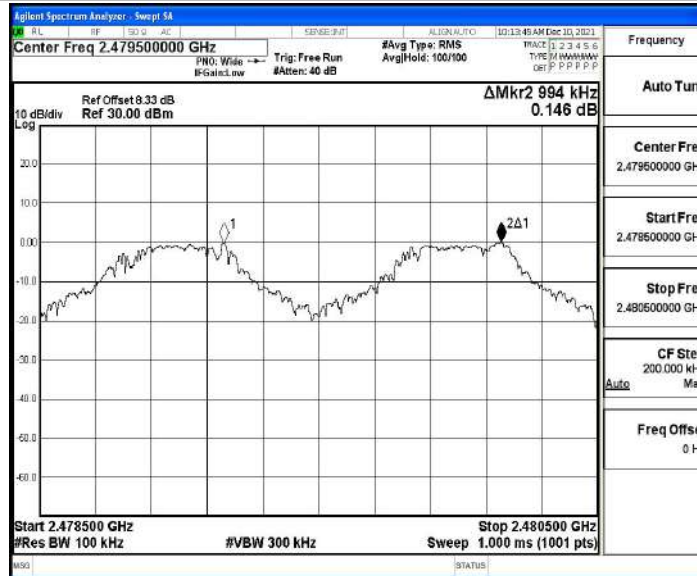
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.688	PASS
2DH5	Ant1	Hop	1.032	≥ 0.896	PASS
3DH5	Ant1	Hop	1.114	≥ 0.882	PASS

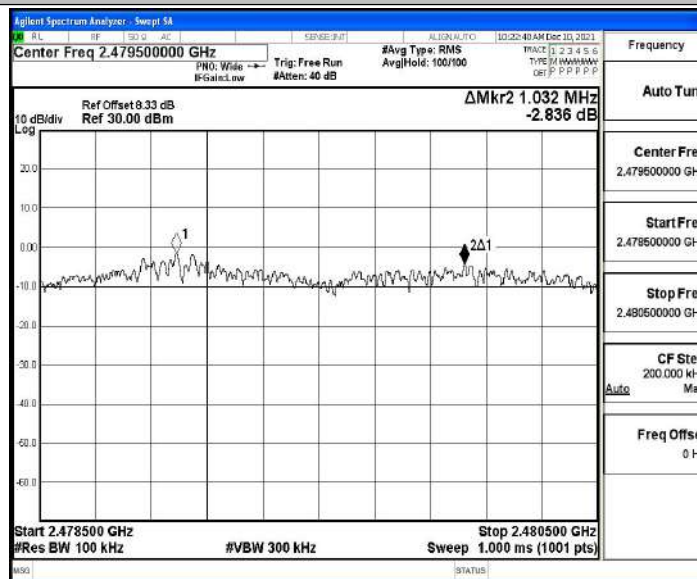


Test Graphs

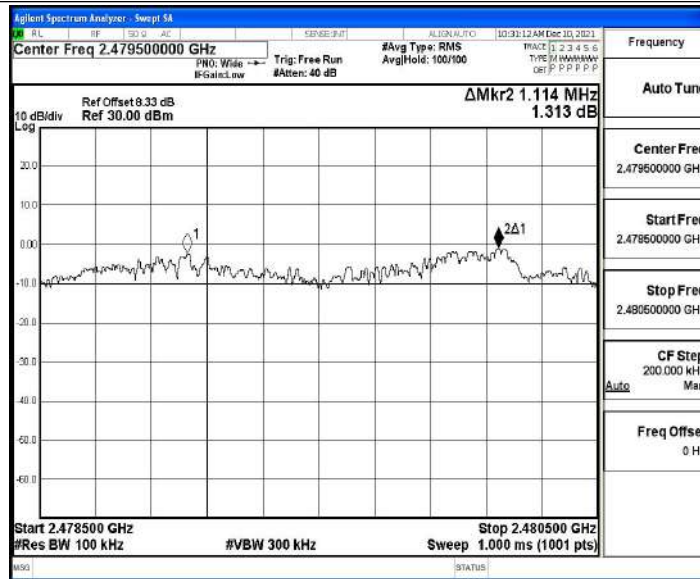
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.4 Time of occupancy

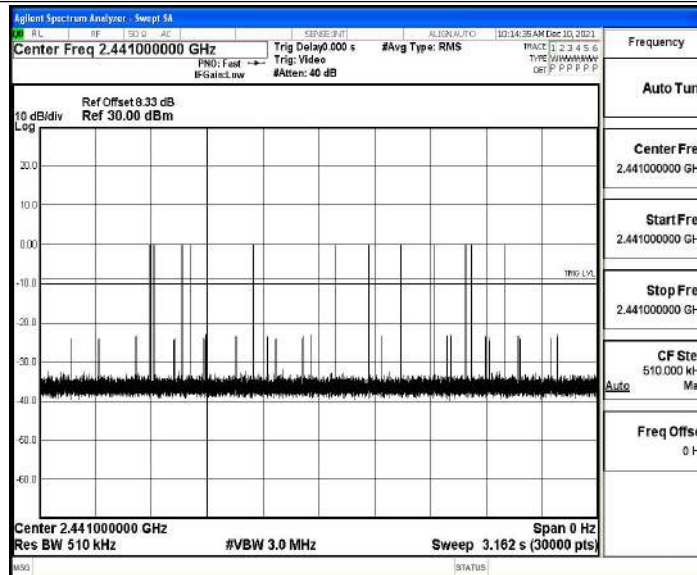
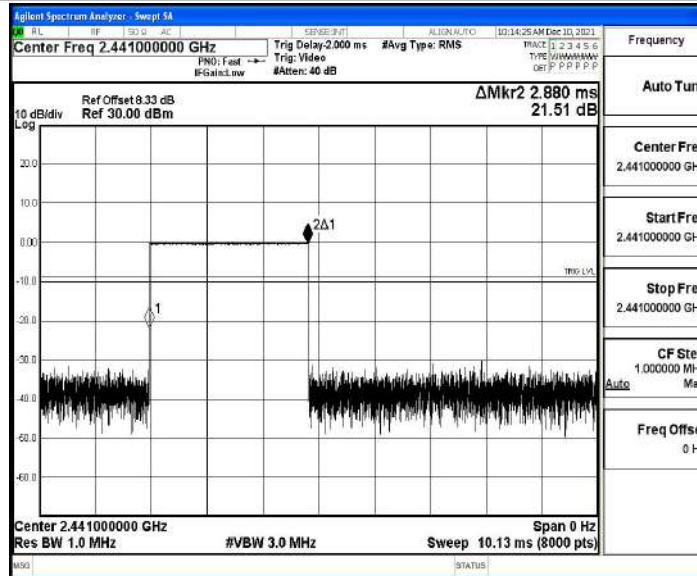
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	≤0.4	PASS

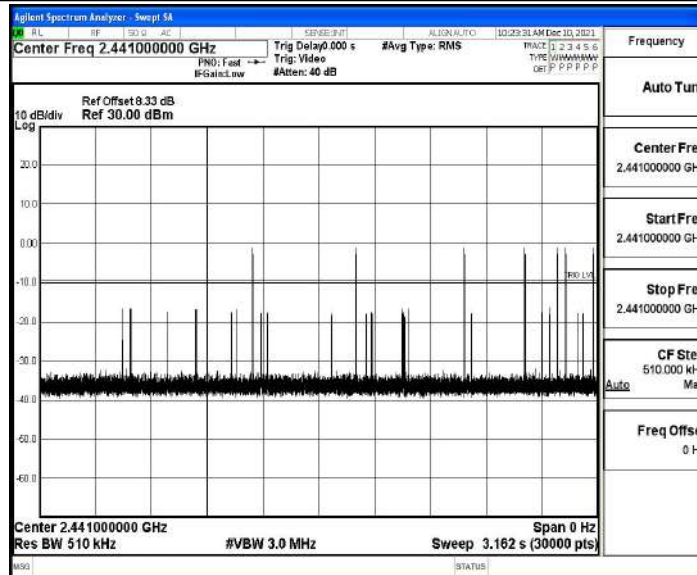
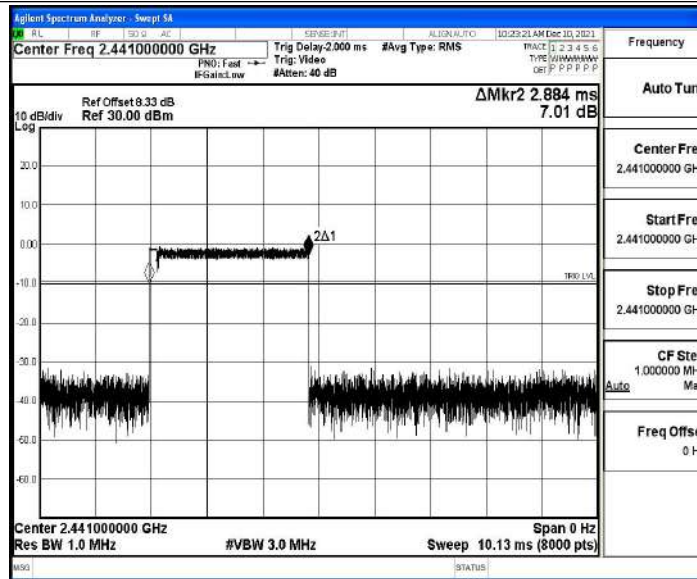


Test Graphs

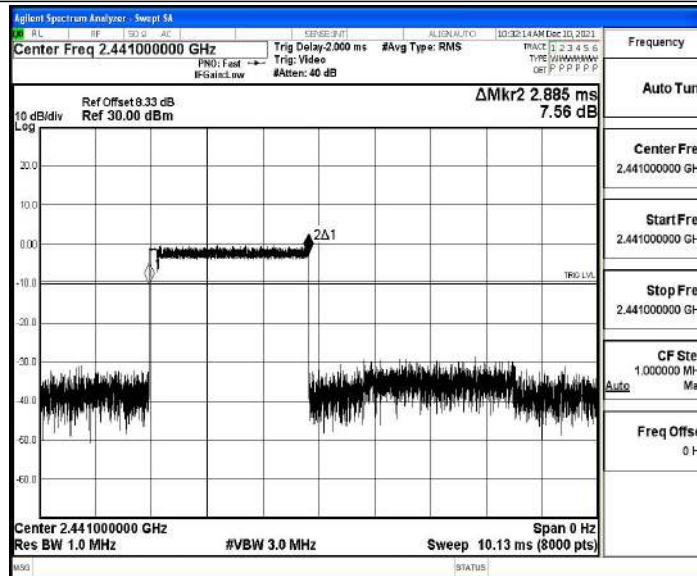
DH5_Ant1_Hop

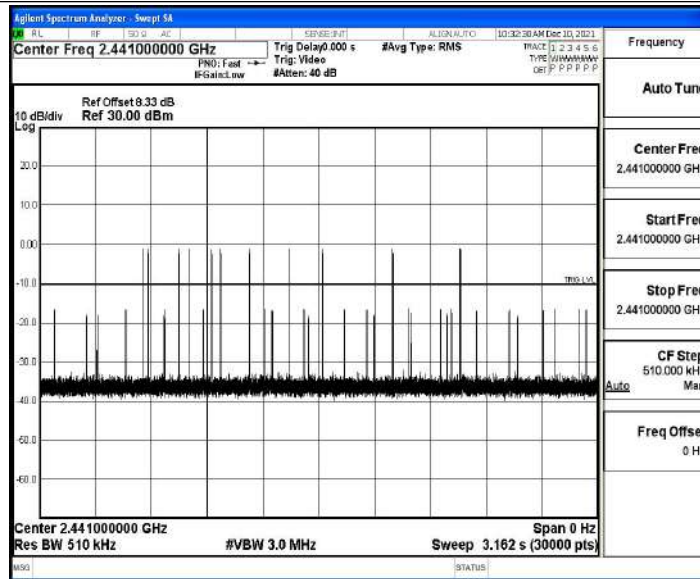


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

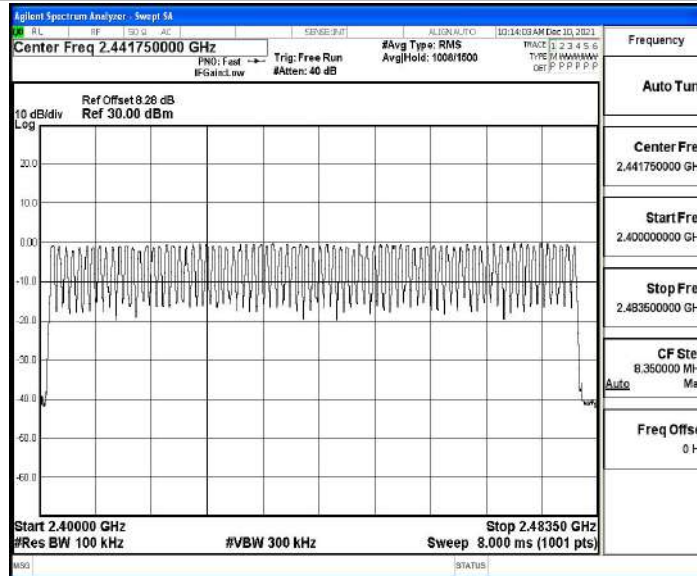
Test Result

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

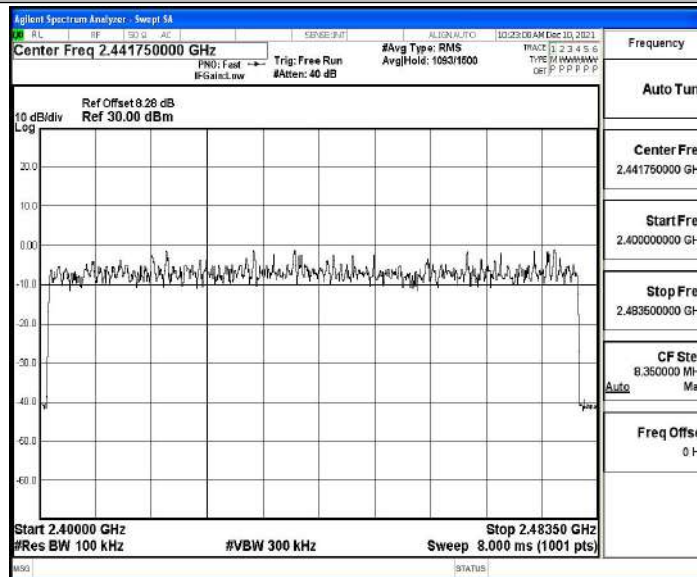


Test Graphs

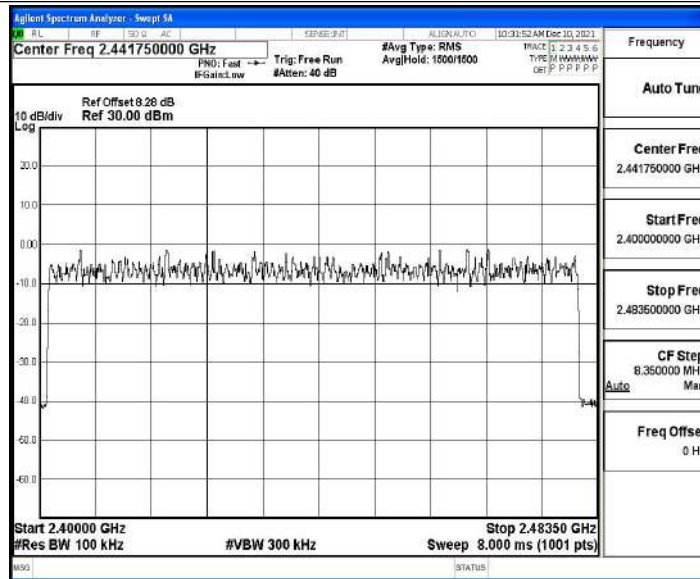
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

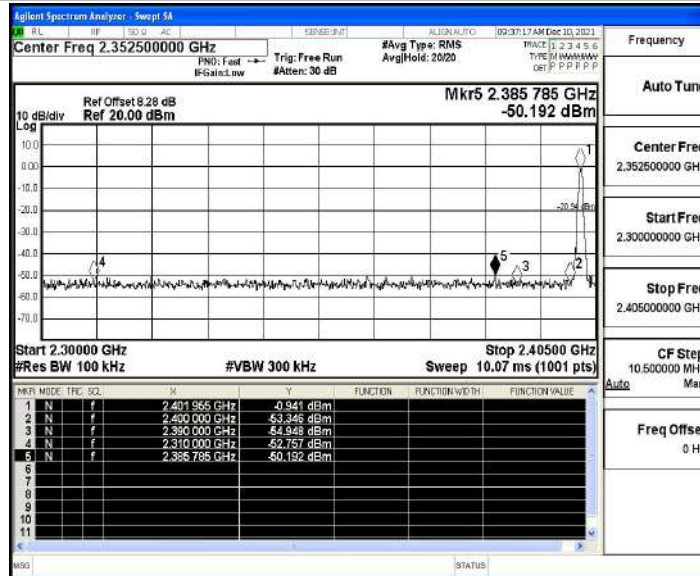
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.94	-50.19	≤ -20.94	PASS
		High	2480	-0.41	-48.89	≤ -20.41	PASS
		Low	Hop_2402	-1.17	-49.22	≤ -21.17	PASS
		High	Hop_2480	-0.25	-48.36	≤ -20.25	PASS
2DH5	Ant1	Low	2402	-5.05	-50.41	≤ -25.05	PASS
		High	2480	-2.61	-49.77	≤ -22.61	PASS
		Low	Hop_2402	-1.81	-49.37	≤ -21.81	PASS
		High	Hop_2480	-2.46	-48.15	≤ -22.46	PASS
3DH5	Ant1	Low	2402	-1.68	-49.32	≤ -21.68	PASS
		High	2480	-5.27	-49.1	≤ -25.27	PASS
		Low	Hop_2402	-5.49	-49.57	≤ -25.49	PASS
		High	Hop_2480	-1.07	-48.03	≤ -21.07	PASS

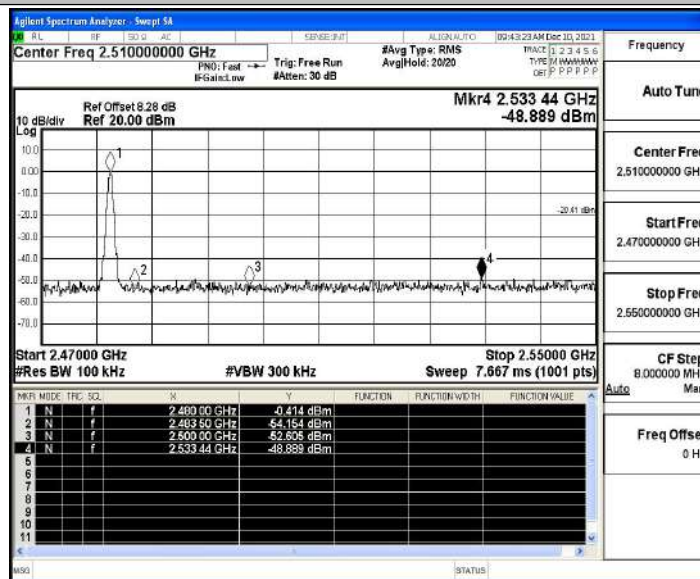


Test Graphs

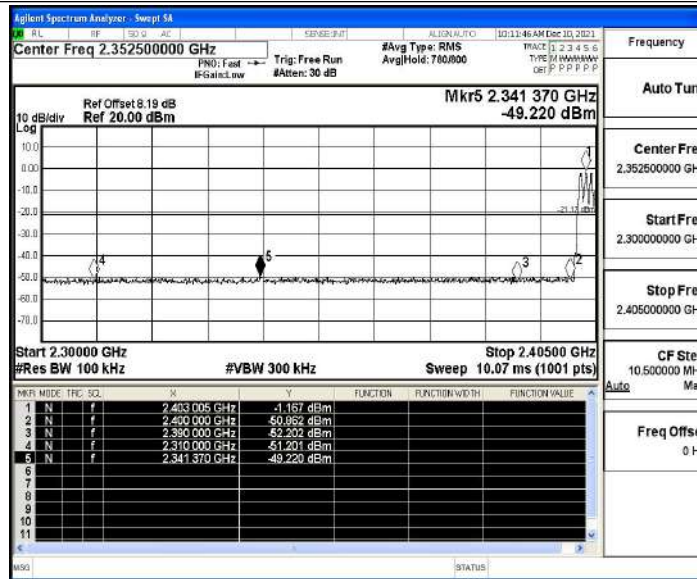
DH5_Ant1_Low_2402



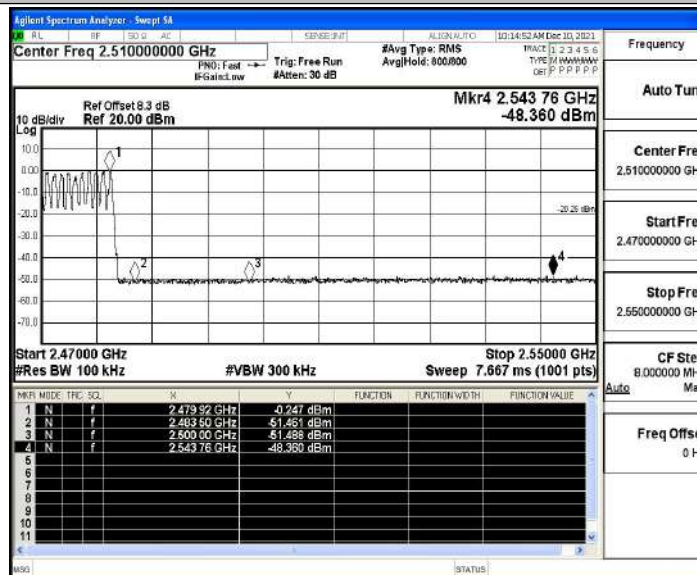
DH5_Ant1_High_2480



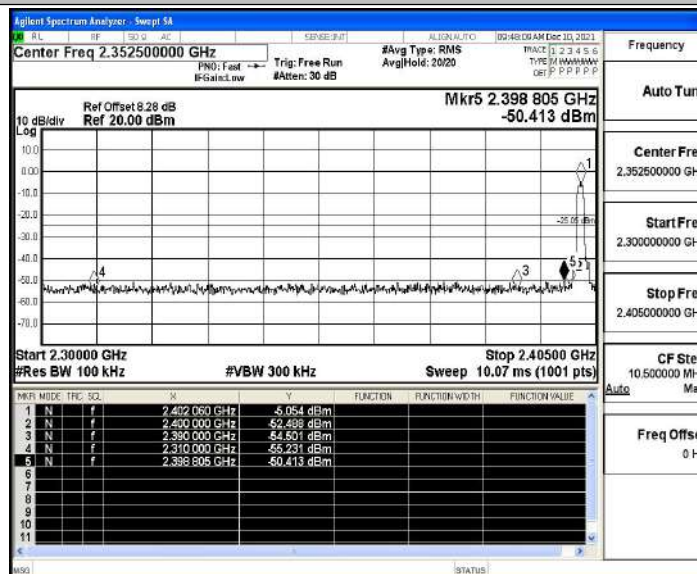
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

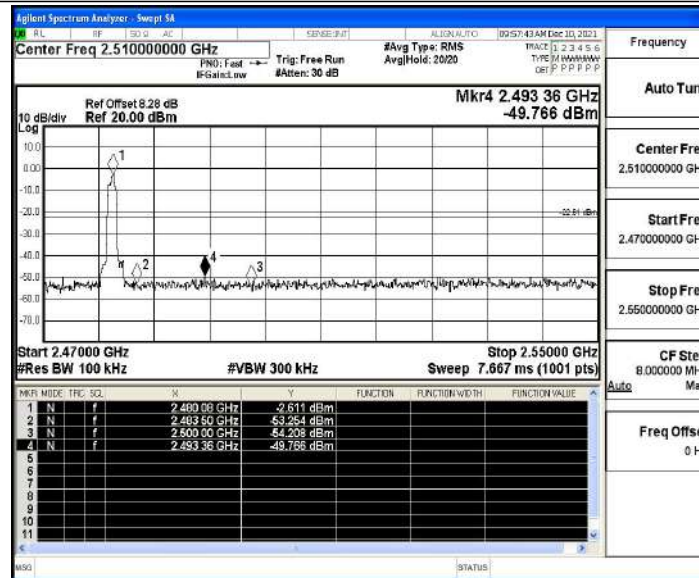


2DH5_Ant1_Low_2402

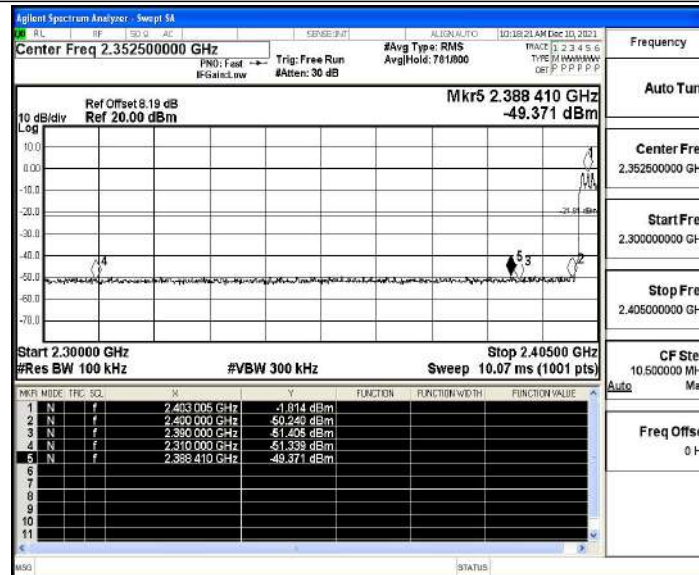




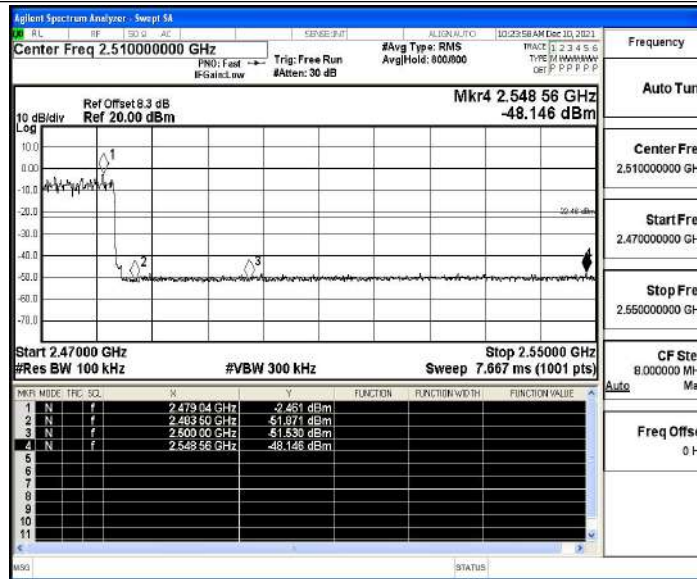
2DH5_Ant1_High_2480



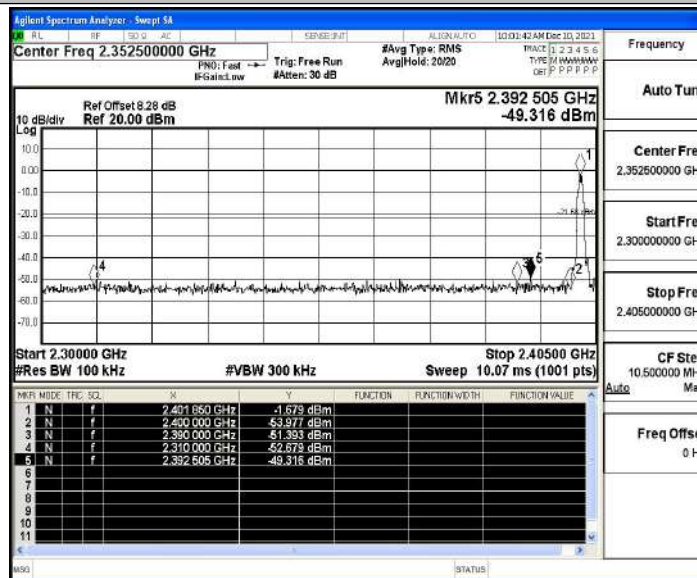
2DH5_Ant1_Low_Hop_2402



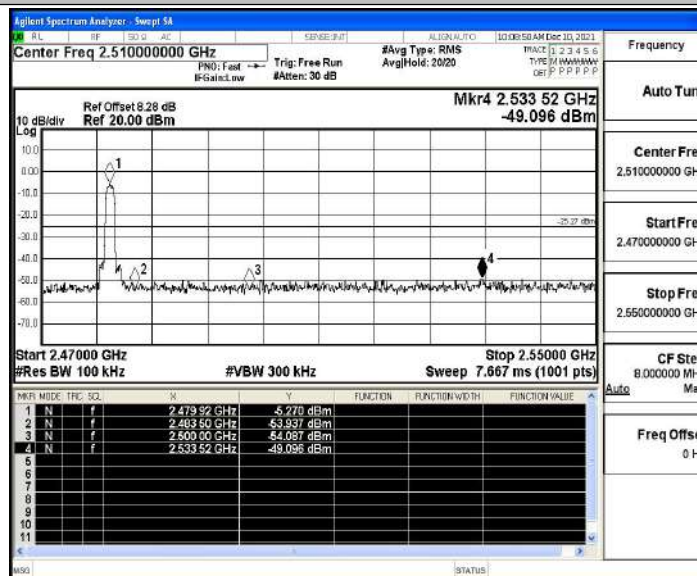
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

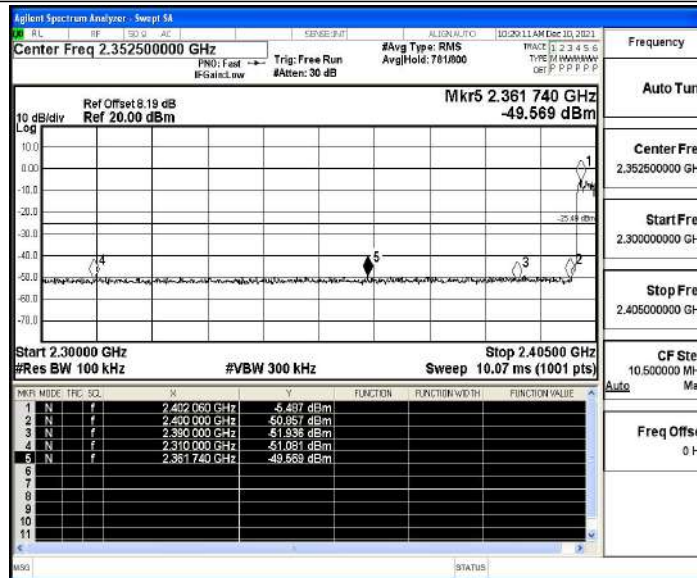


3DH5_Ant1_High_2480

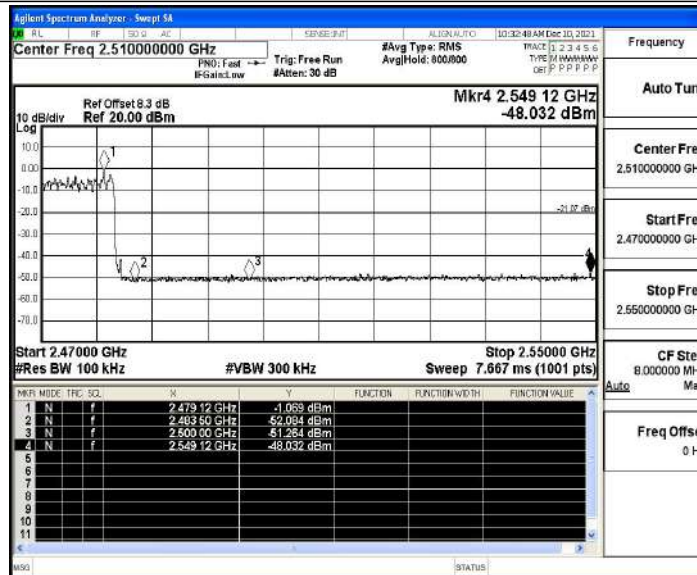




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

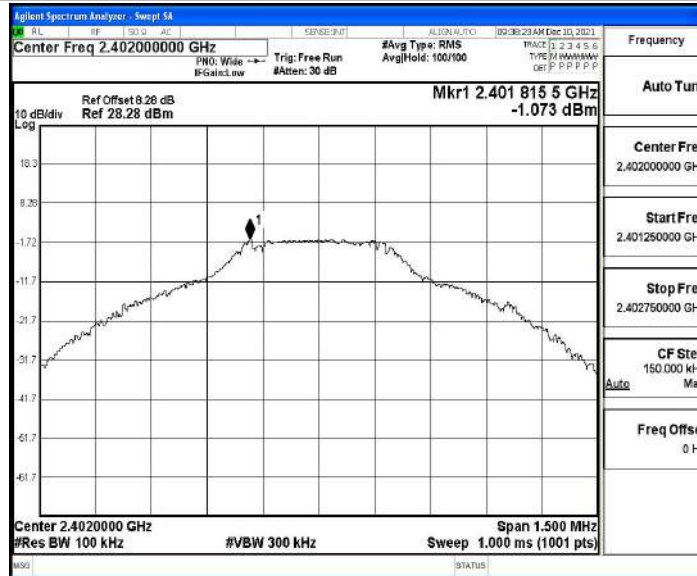
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-61.17	≤ -21.07	PASS
			1000~26500	-1.07	-45.79	≤ -21.07	PASS
		2441	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-61.38	≤ -20.69	PASS
			1000~26500	-0.69	-45.9	≤ -20.69	PASS
		2480	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-60.79	≤ -20.52	PASS
			1000~26500	-0.52	-45.61	≤ -20.52	PASS
2DH5	Ant1	2402	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-61.2	≤ -21.68	PASS
			1000~26500	-1.68	-46.67	≤ -21.68	PASS
		2441	Reference	-1.13	-1.13	---	PASS
			30~1000	-1.13	-60.49	≤ -21.13	PASS
			1000~26500	-1.13	-46.22	≤ -21.13	PASS
		2480	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-61.38	≤ -21.34	PASS
			1000~26500	-1.34	-46.49	≤ -21.34	PASS
3DH5	Ant1	2402	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-60.87	≤ -22.38	PASS
			1000~26500	-2.38	-46.41	≤ -22.38	PASS
		2441	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-60.52	≤ -21.29	PASS
			1000~26500	-1.29	-46.71	≤ -21.29	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-60.94	≤ -21.06	PASS
			1000~26500	-1.06	-45.96	≤ -21.06	PASS

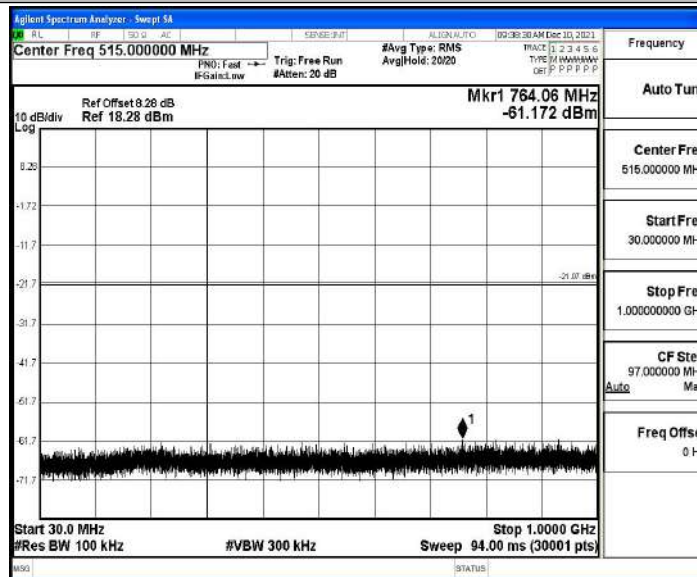


Test Graphs

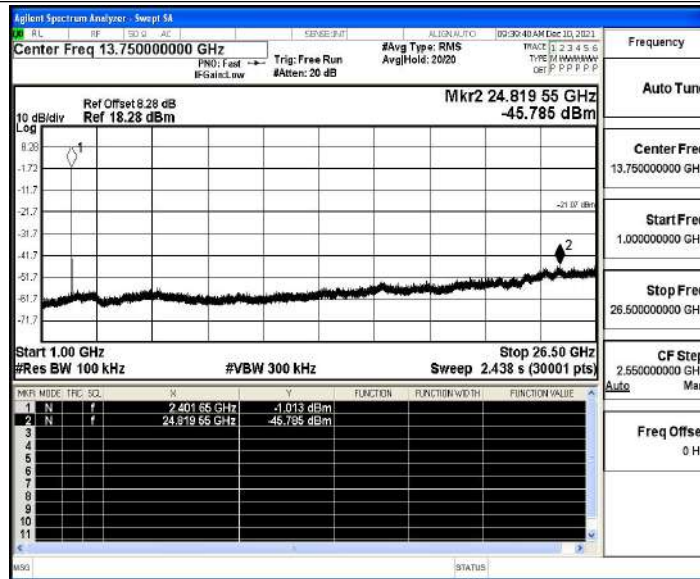
DH5_Ant1_2402_0~Reference



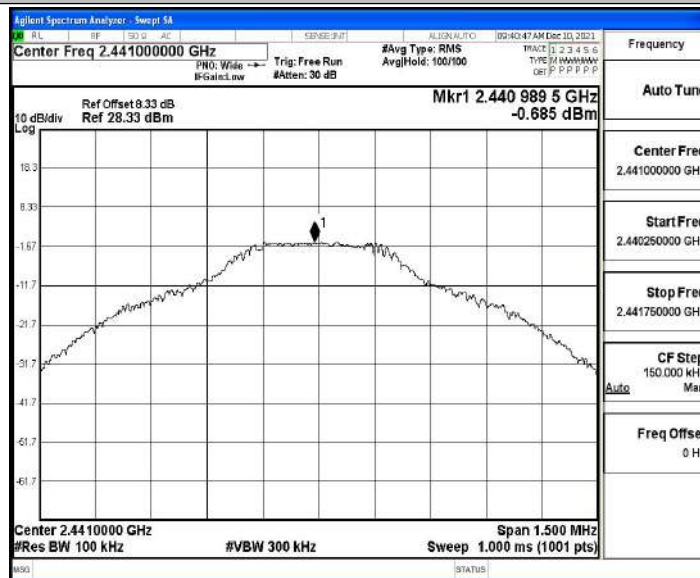
DH5_Ant1_2402_30~1000



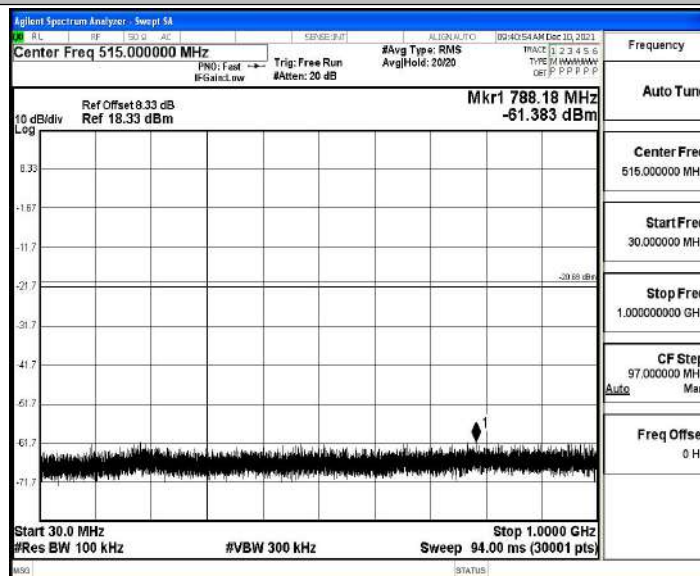
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

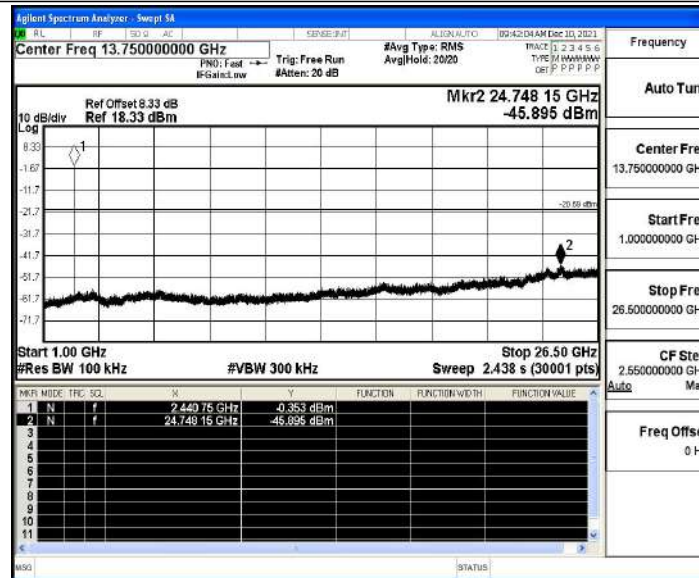


DH5_Ant1_2441_30~1000

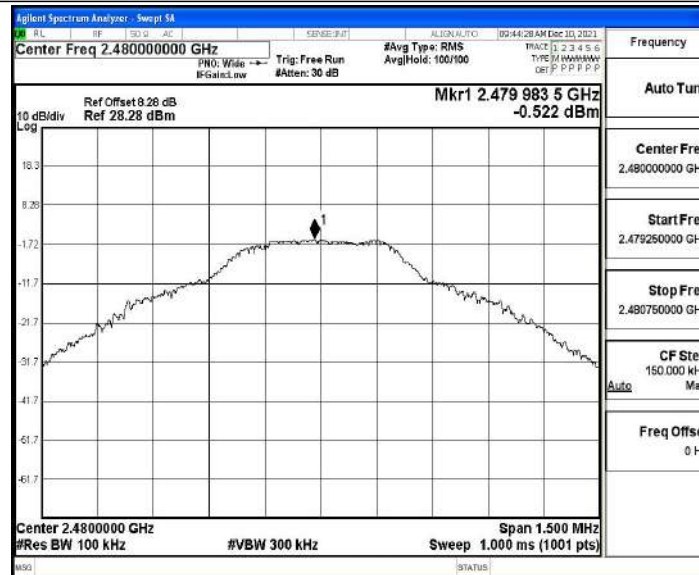




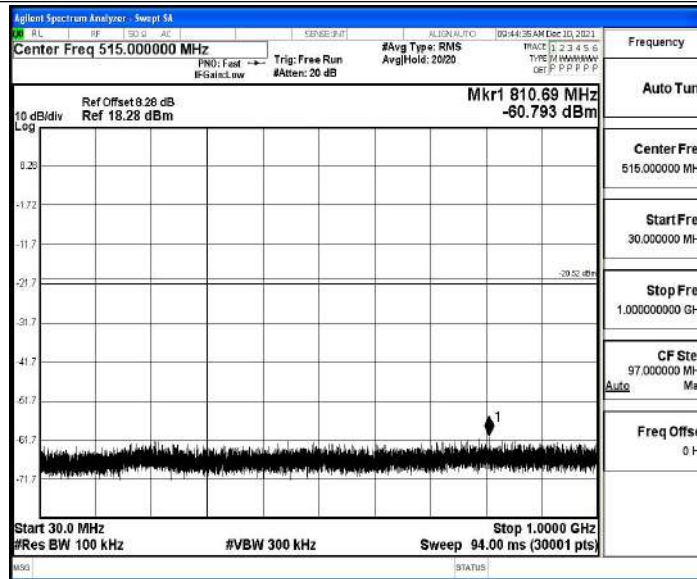
DH5_Ant1_2441_1000~26500



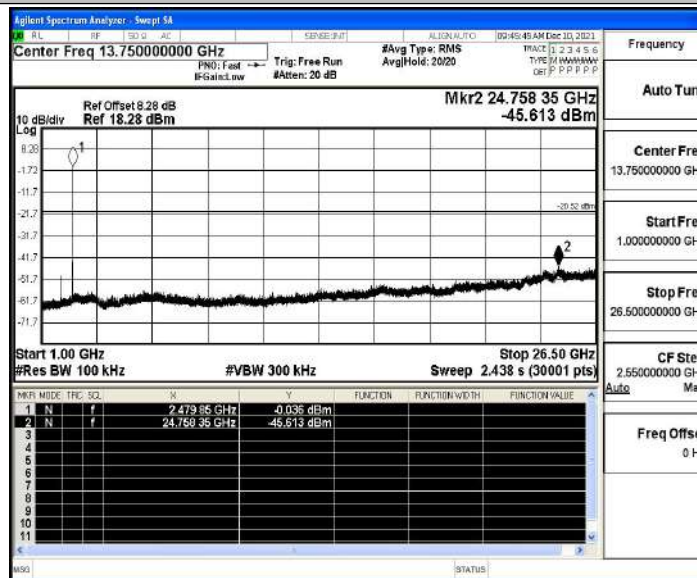
DH5_Ant1_2480_0~Reference



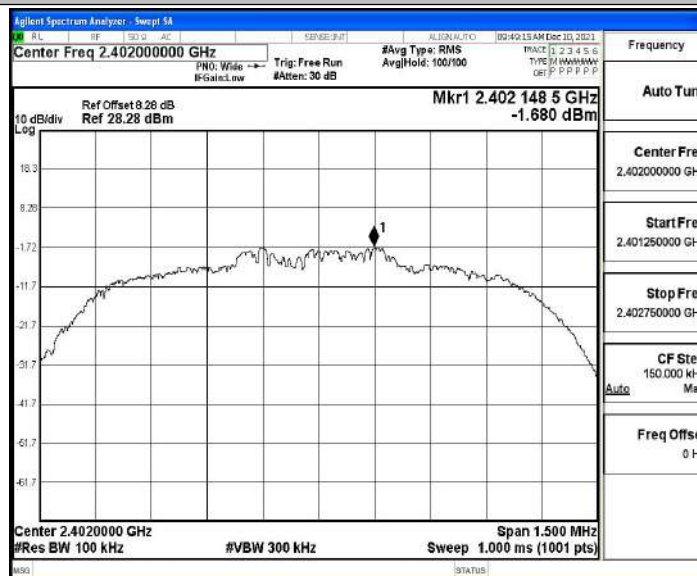
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

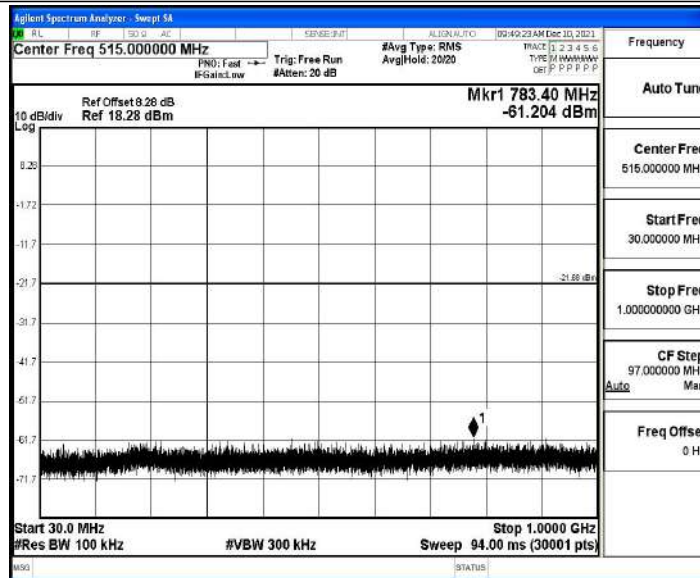


2DH5_Ant1_2402_0~Reference

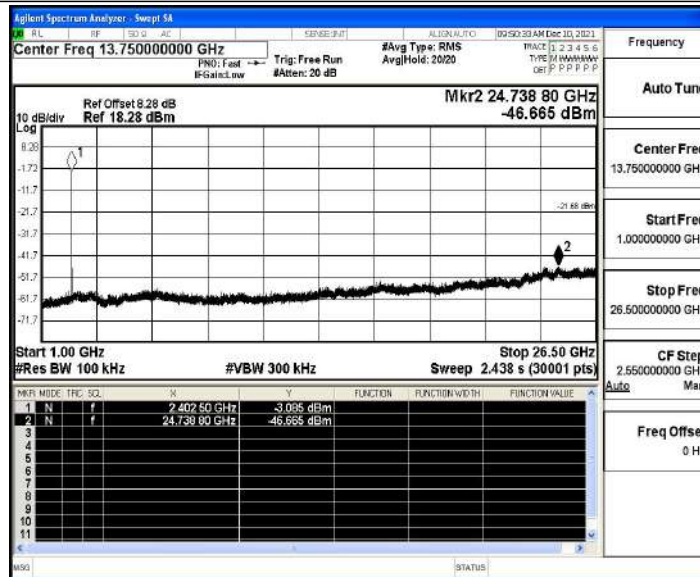




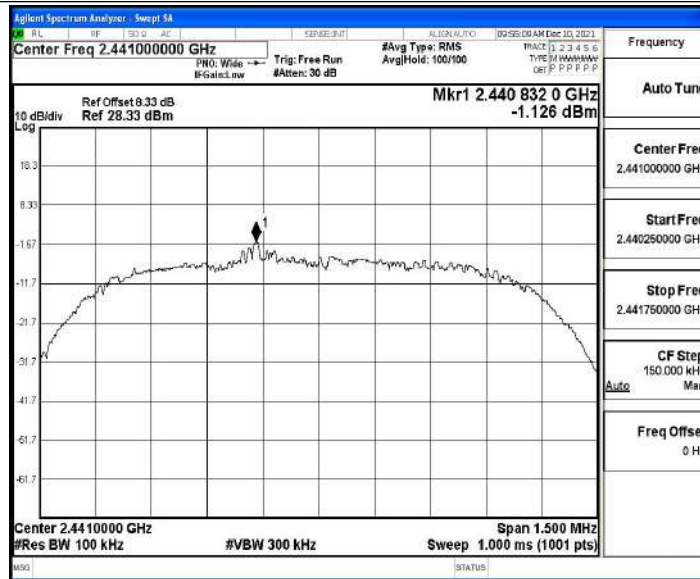
2DH5_Ant1_2402_30~1000



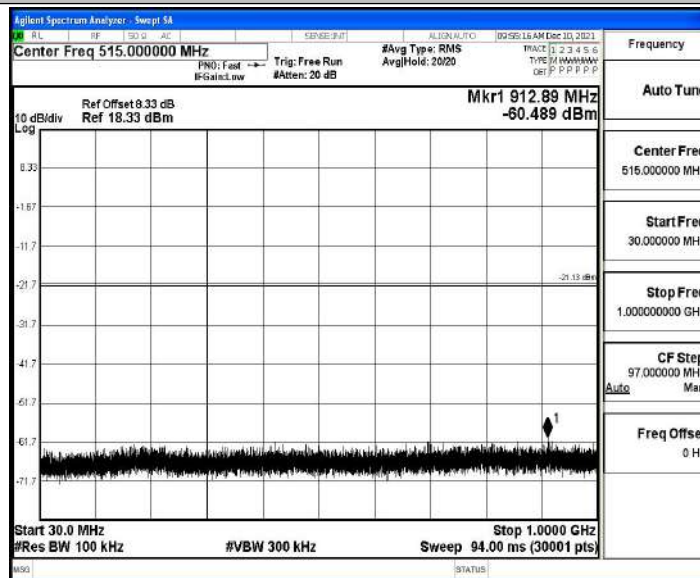
2DH5_Ant1_2402_1000~26500



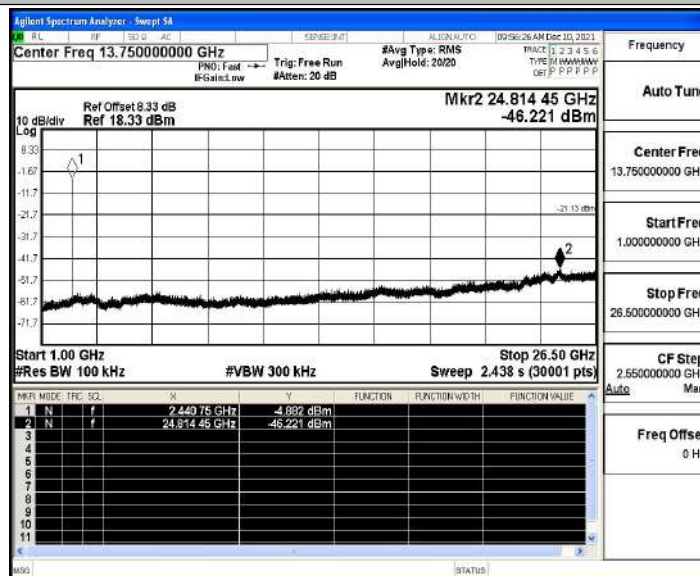
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

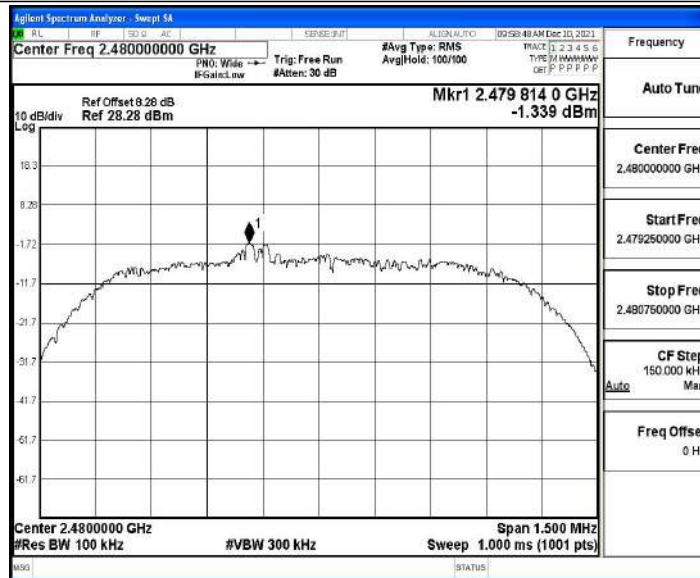


2DH5_Ant1_2441_1000~26500

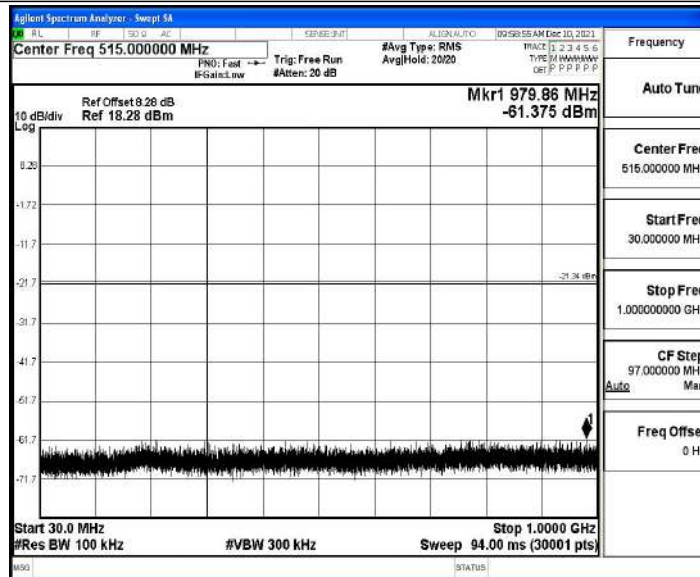




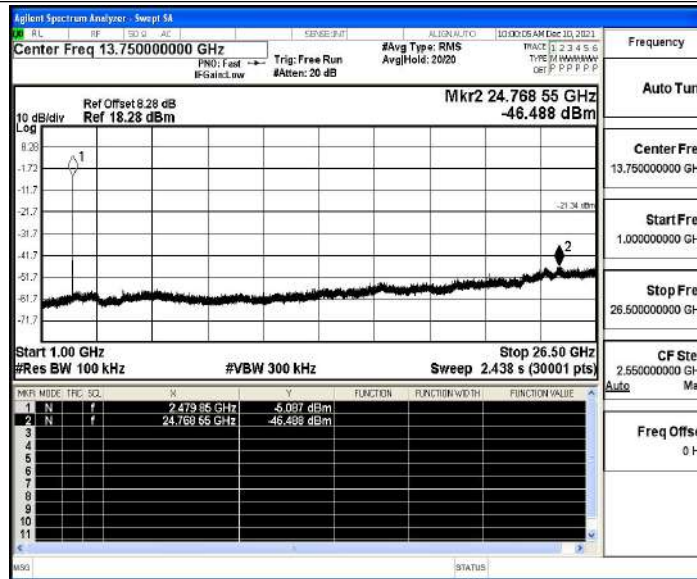
2DH5_Ant1_2480_0~Reference



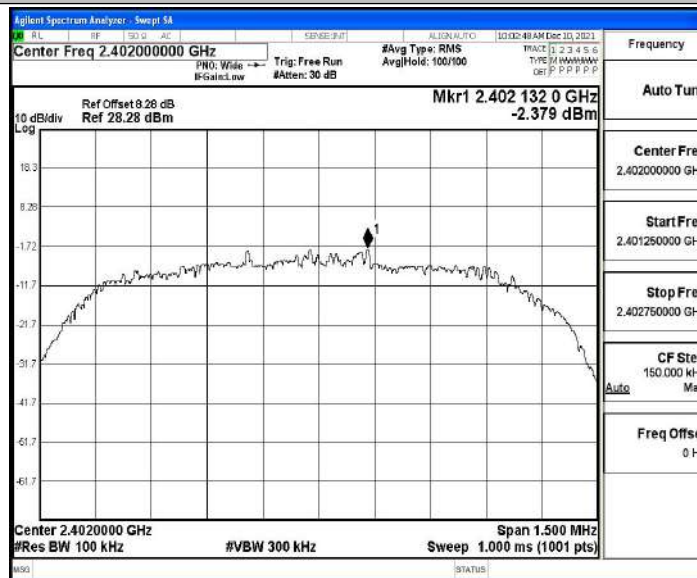
2DH5_Ant1_2480_30~1000



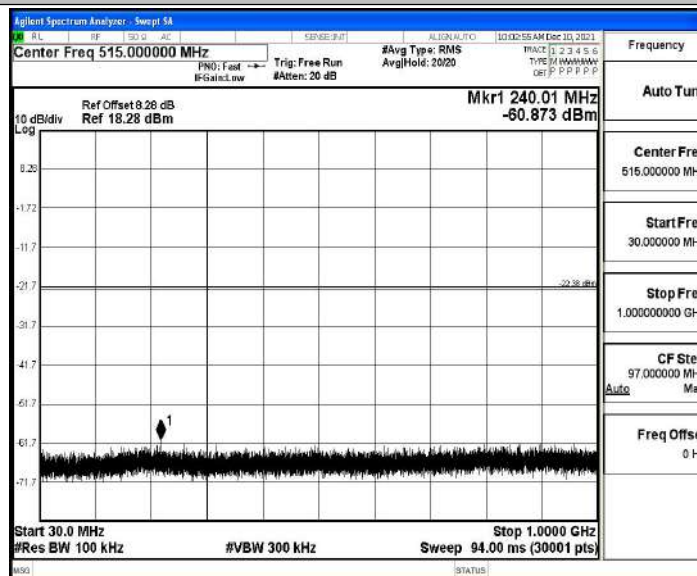
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

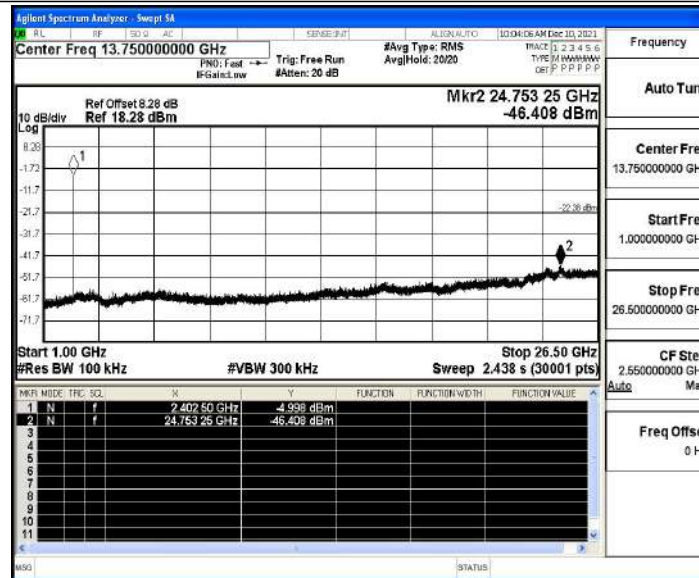


3DH5_Ant1_2402_30~1000

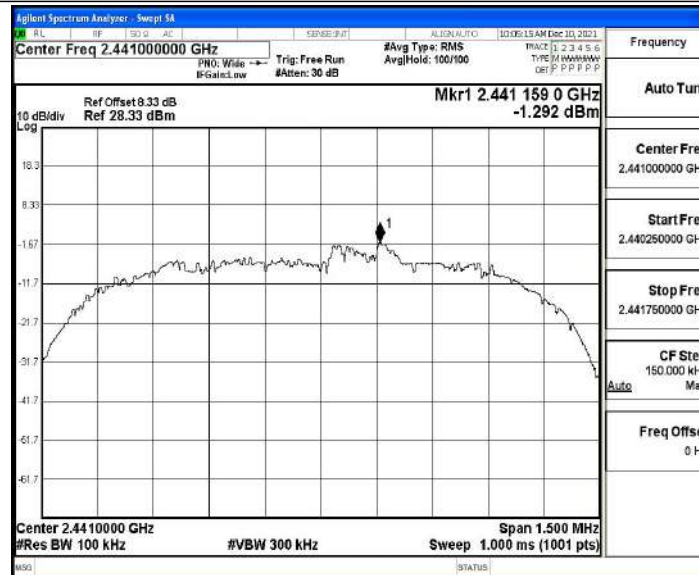




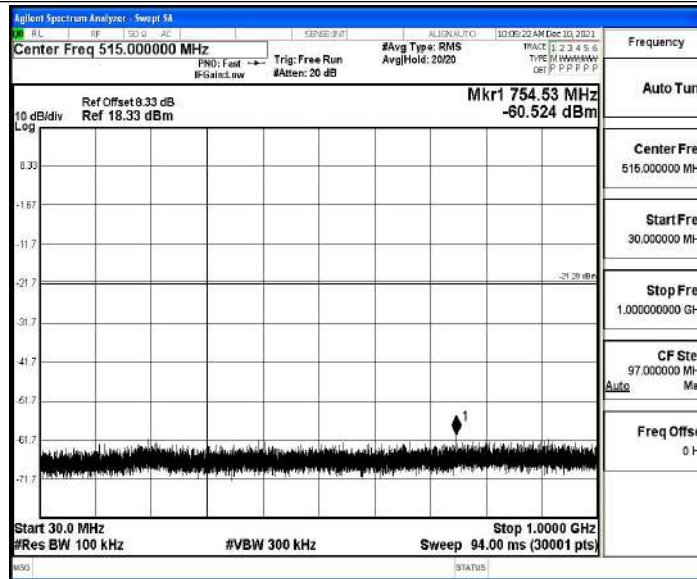
3DH5_Ant1_2402_1000~26500



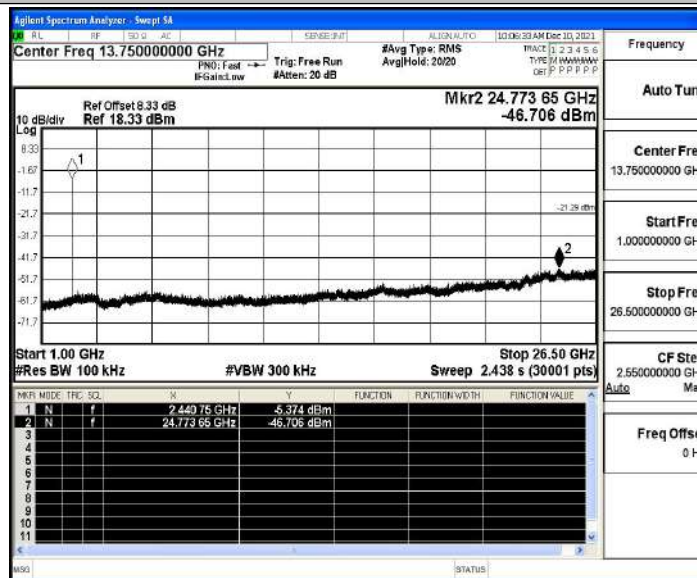
3DH5_Ant1_2441_0~Reference



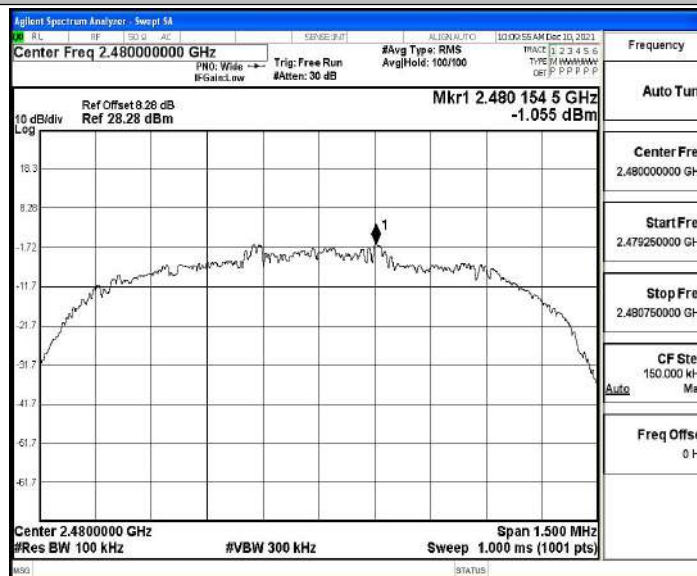
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

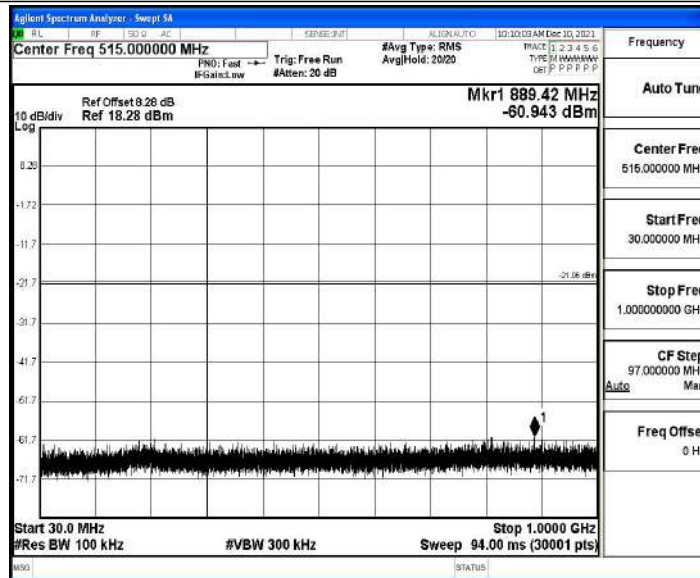


3DH5_Ant1_2480_0~Reference

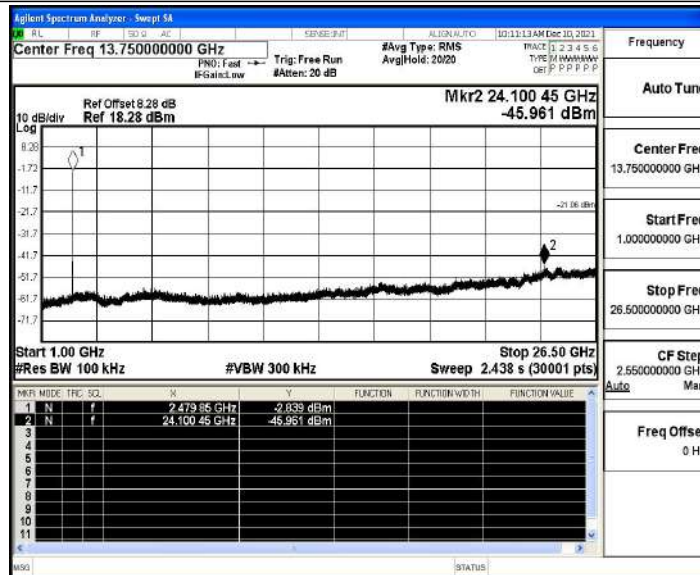




3DH5_Ant1_2480_30~1000



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	-48.74	≤-41.20	46.46	≤54	PASS
				AV	2383.580	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2390.000	-48.36	≤-41.20	46.84	≤54	PASS
				Peak	2310.000	-43.04	≤-21.20	52.16	≤74	PASS
				Peak	2358.065	-39.04	≤-21.20	56.16	≤74	PASS
				Peak	2390.000	-40.24	≤-21.20	54.96	≤74	PASS
		High	2480	AV	2483.500	-47.73	≤-41.20	47.47	≤54	PASS
				AV	2499.040	-47.62	≤-41.20	47.58	≤54	PASS
				AV	2500.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2483.500	-41.1	≤-21.20	54.10	≤74	PASS
				Peak	2495.840	-38.44	≤-21.20	56.76	≤74	PASS
				Peak	2500.000	-40.23	≤-21.20	54.97	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2385.470	-48.02	≤-41.20	47.18	≤54	PASS
				AV	2390.000	-48.24	≤-41.20	46.96	≤54	PASS
				Peak	2310.000	-42.86	≤-21.20	52.34	≤74	PASS
				Peak	2380.850	-39.31	≤-21.20	55.89	≤74	PASS
				Peak	2390.000	-42.44	≤-21.20	52.76	≤74	PASS
		High	2480	AV	2483.500	-47.62	≤-41.20	47.58	≤54	PASS
				AV	2490.560	-47.6	≤-41.20	47.60	≤54	PASS
				AV	2500.000	-47.69	≤-41.20	47.51	≤54	PASS
				Peak	2483.500	-41.41	≤-21.20	53.79	≤74	PASS
				Peak	2490.000	-38.54	≤-21.20	56.66	≤74	PASS
				Peak	2500.000	-40.25	≤-21.20	54.95	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.8	≤-41.20	46.40	≤54	PASS
				AV	2389.670	-48.15	≤-41.20	47.05	≤54	PASS
				AV	2390.000	-48.29	≤-41.20	46.91	≤54	PASS
				Peak	2310.000	-43.23	≤-21.20	51.97	≤74	PASS
				Peak	2358.695	-39.19	≤-21.20	56.01	≤74	PASS
				Peak	2390.000	-42.69	≤-21.20	52.51	≤74	PASS
		High	2480	AV	2483.500	-47.65	≤-41.20	47.55	≤54	PASS
				AV	2499.040	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2500.000	-47.69	≤-41.20	47.51	≤54	PASS
				Peak	2483.500	-40.48	≤-21.20	54.72	≤74	PASS
				Peak	2499.840	-38.77	≤-21.20	56.43	≤74	PASS
				Peak	2500.000	-42.09	≤-21.20	53.11	≤74	PASS



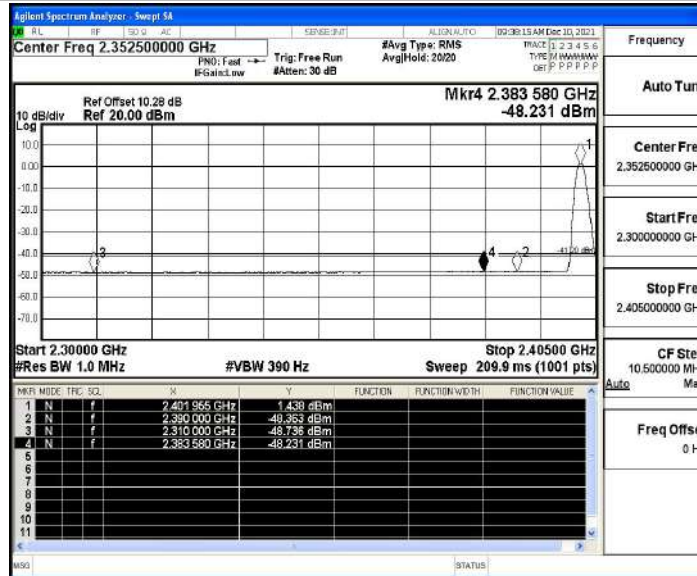
Note:

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.

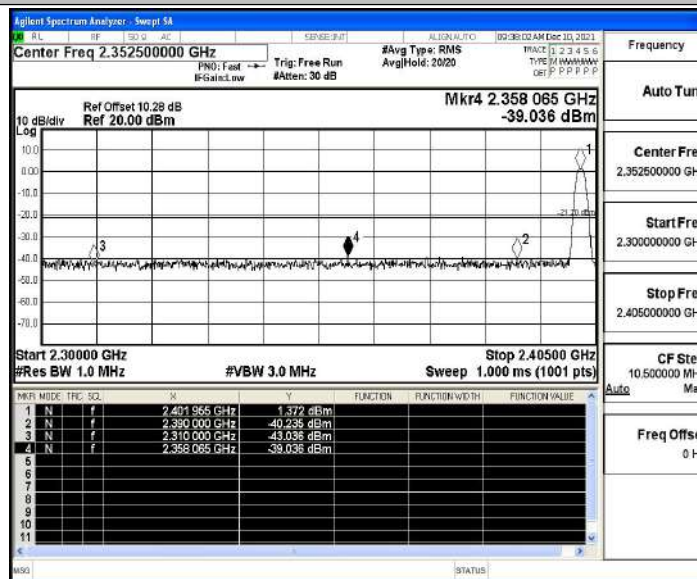


Test Graphs

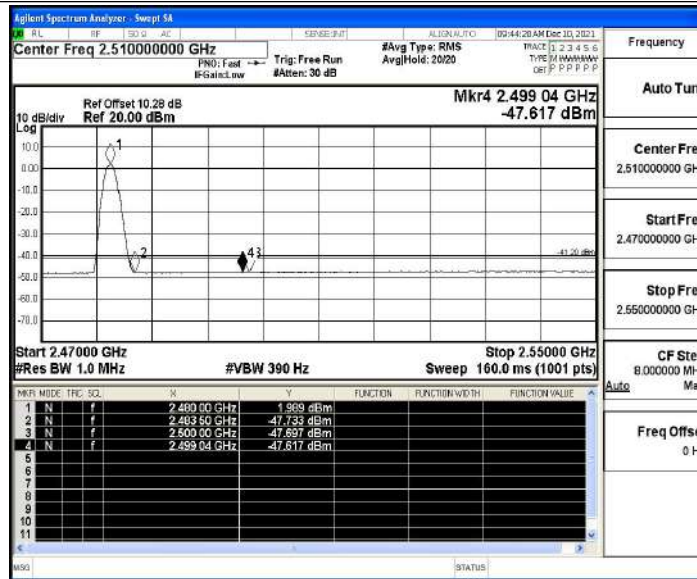
DH5_Ant1_Low_2402_AV



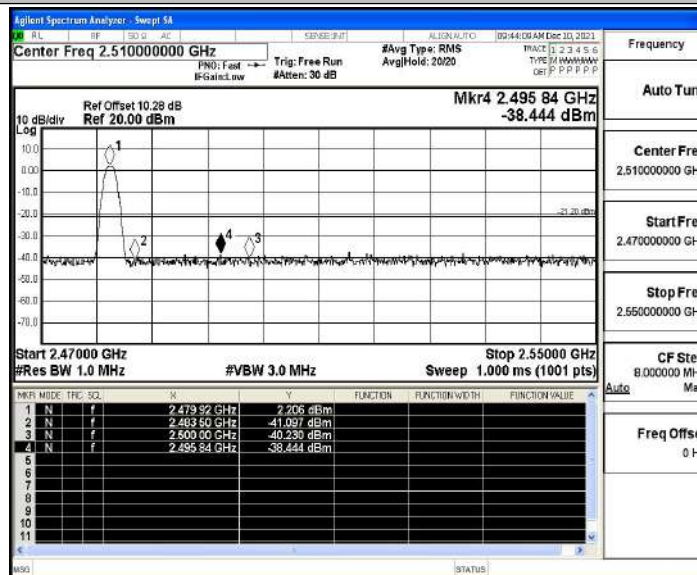
DH5_Ant1_Low_2402_Peak



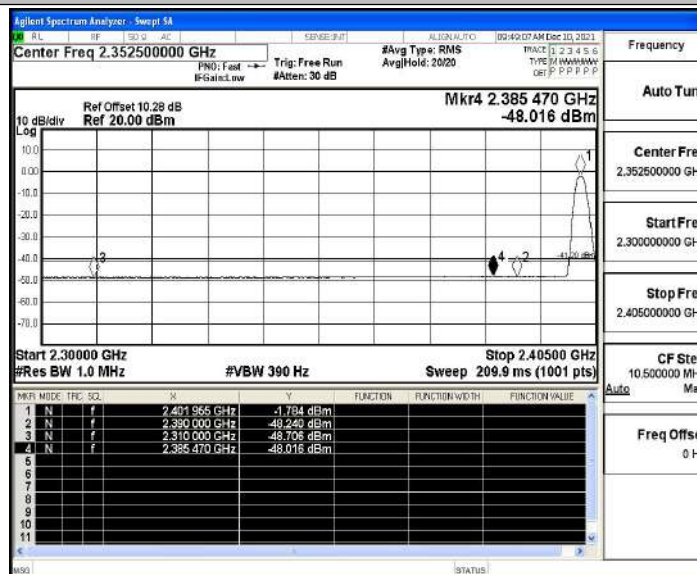
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

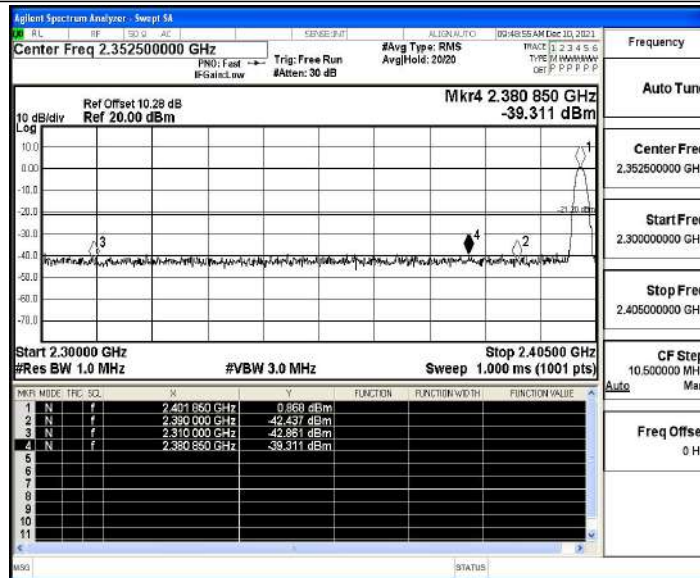


2DH5_Ant1_Low_2402_AV

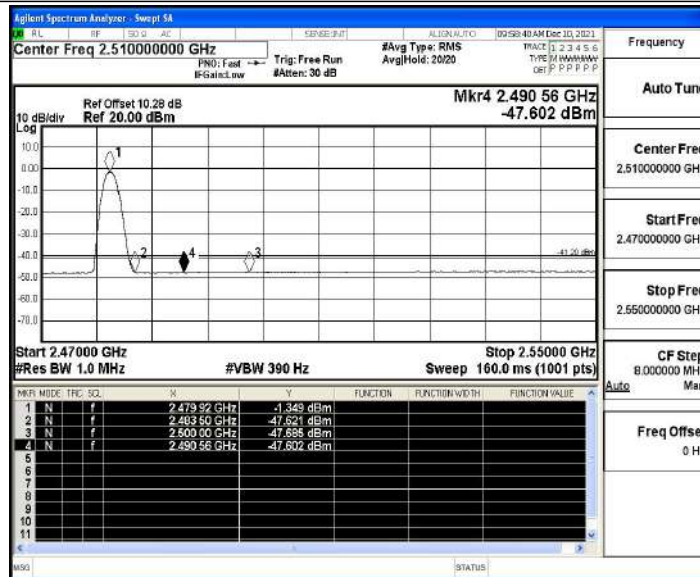




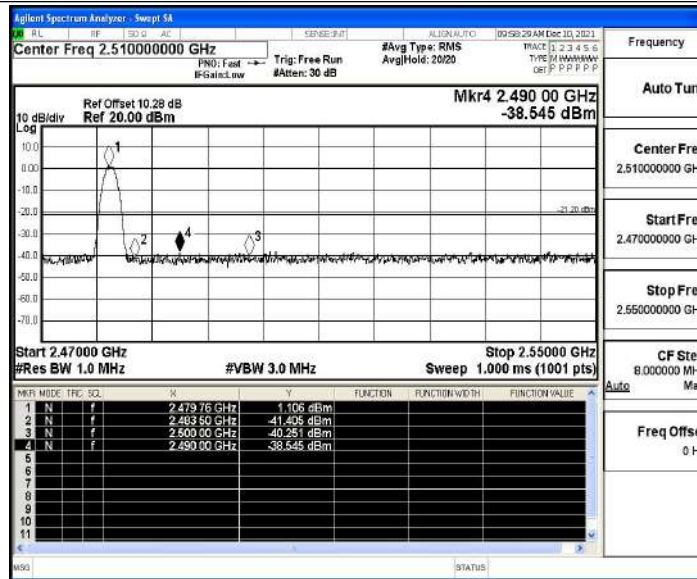
2DH5_Ant1_Low_2402_Peak



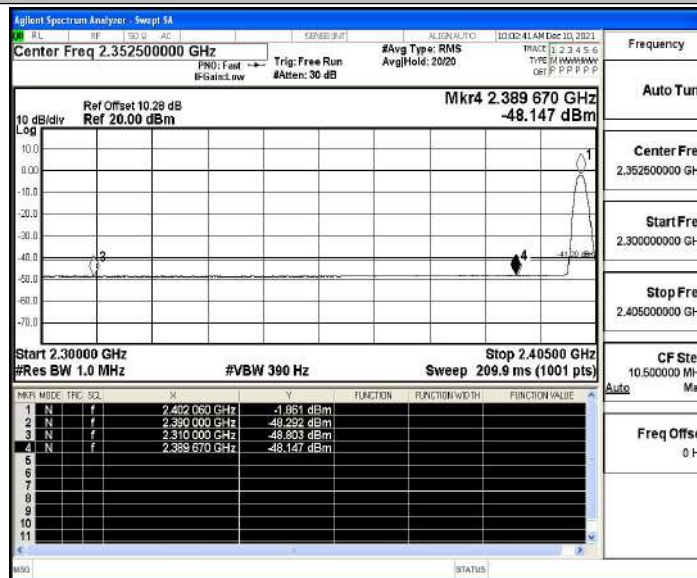
2DH5_Ant1_High_2480_AV



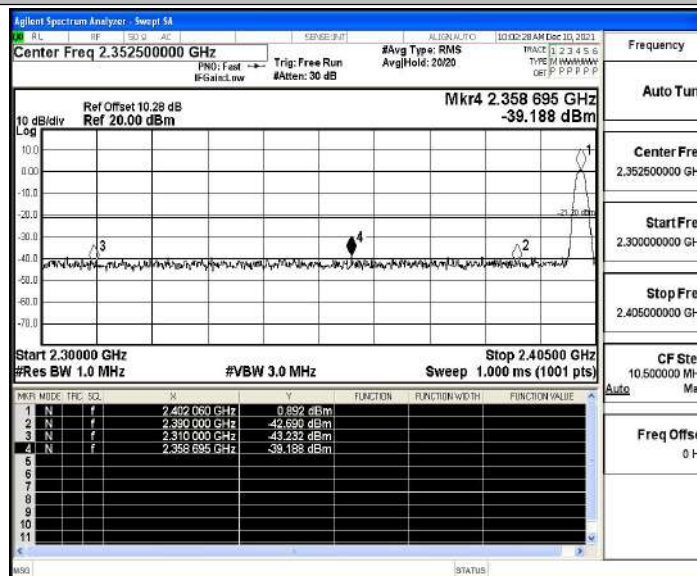
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

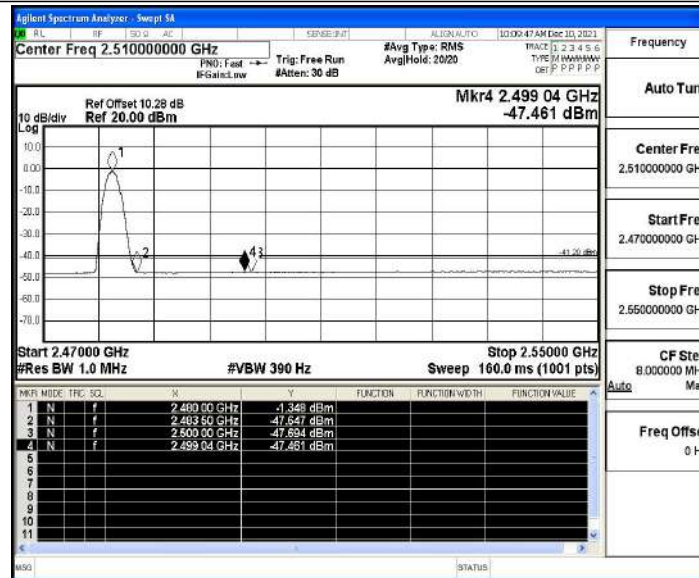


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

