





Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Audio Adapter

Test Model: B03+

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Kay Hu
Supervised by:	 Li Huan



A.1 20dB Emission Bandwidth

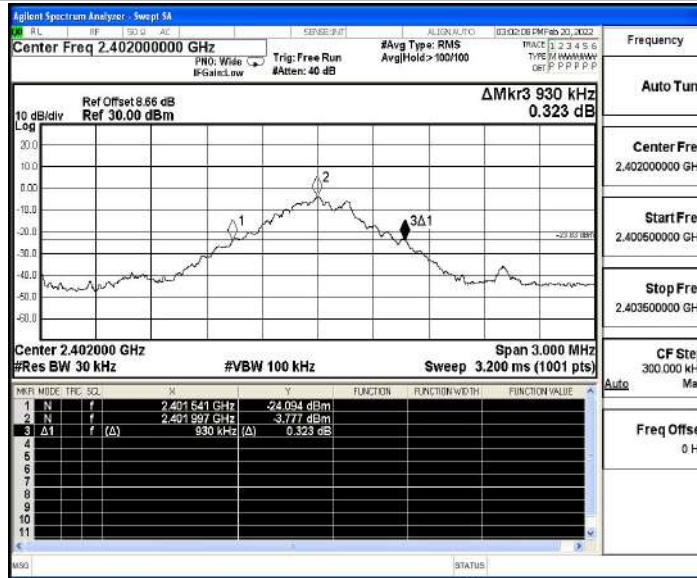
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.930	2401.541	2402.471	---	---
		2441	0.930	2440.541	2441.471	---	---
		2480	0.927	2479.544	2480.471	---	---
2DH5	Ant1	2402	1.371	2401.310	2402.681	---	---
		2441	1.353	2440.325	2441.678	---	---
		2480	1.422	2479.289	2480.711	---	---
3DH5	Ant1	2402	1.380	2401.298	2402.678	---	---
		2441	1.368	2440.304	2441.672	---	---
		2480	1.329	2479.328	2480.657	---	---

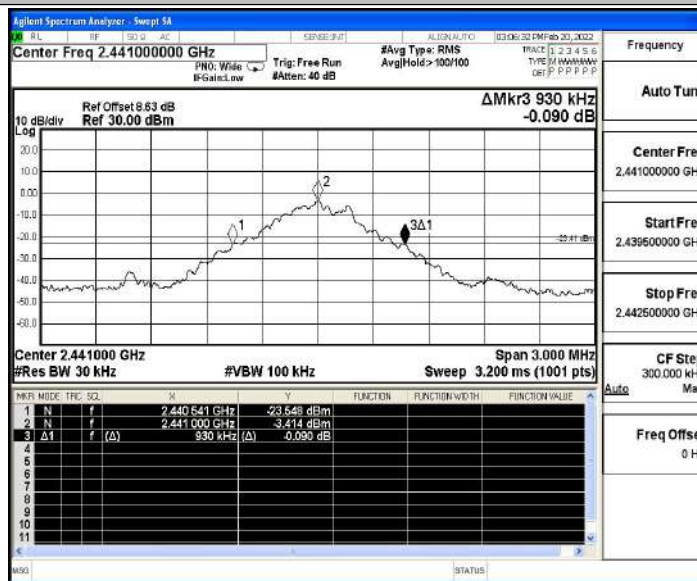


Test Graphs

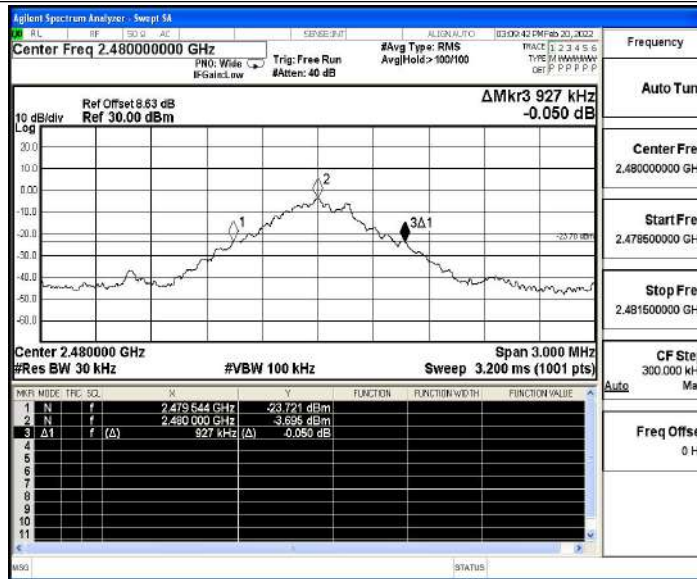
DH5_Ant1_2402



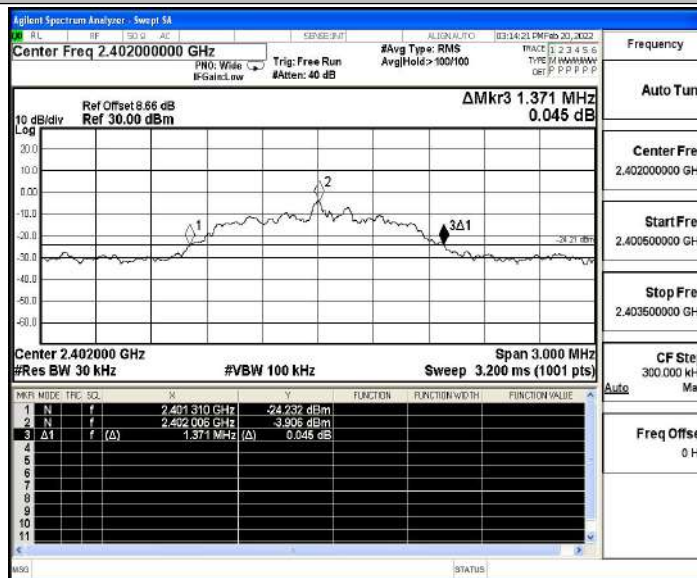
DH5_Ant1_2441



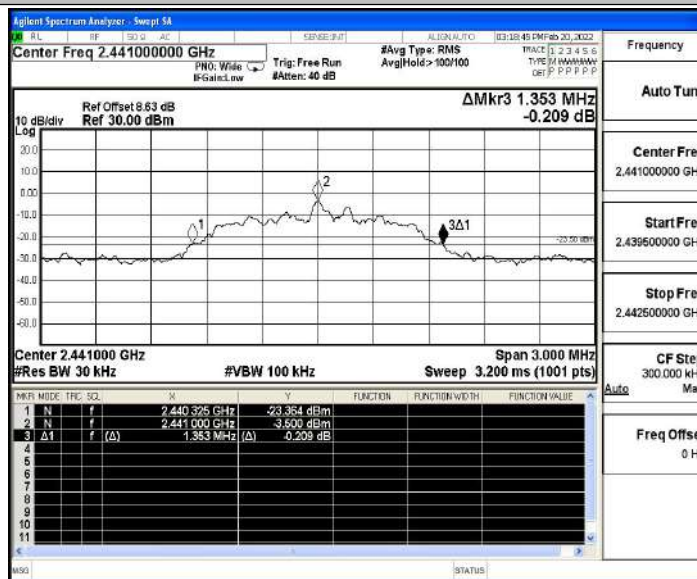
DH5_Ant1_2480



2DH5_Ant1_2402

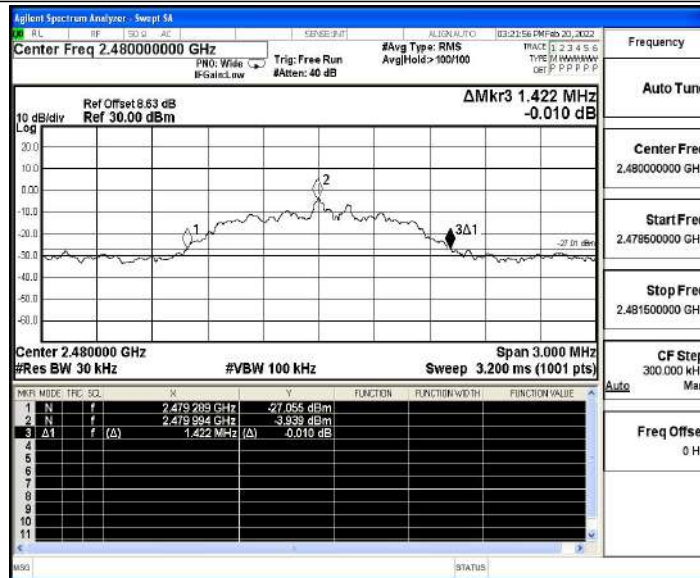


2DH5_Ant1_2441

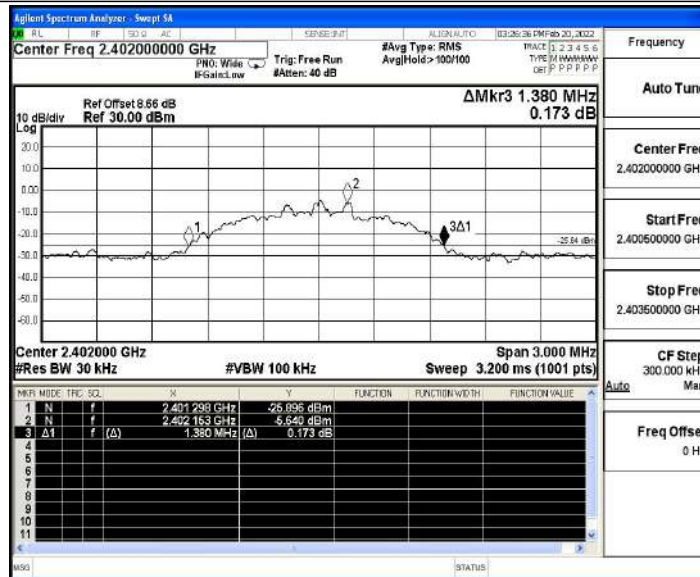




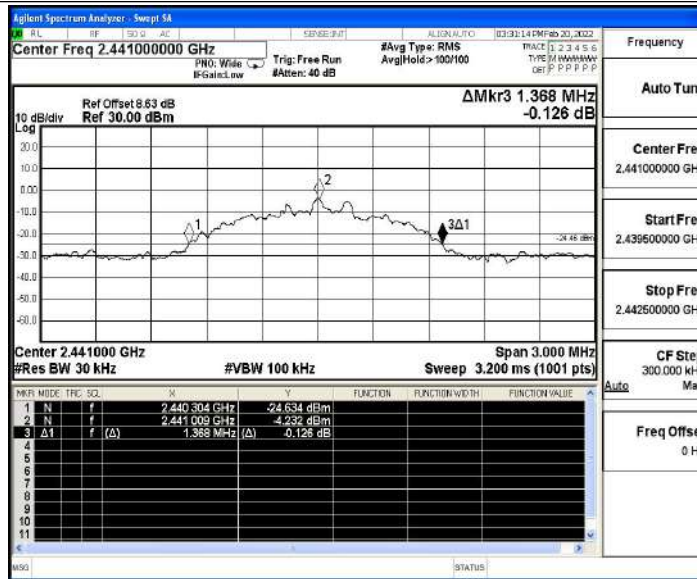
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum peak conducted output power

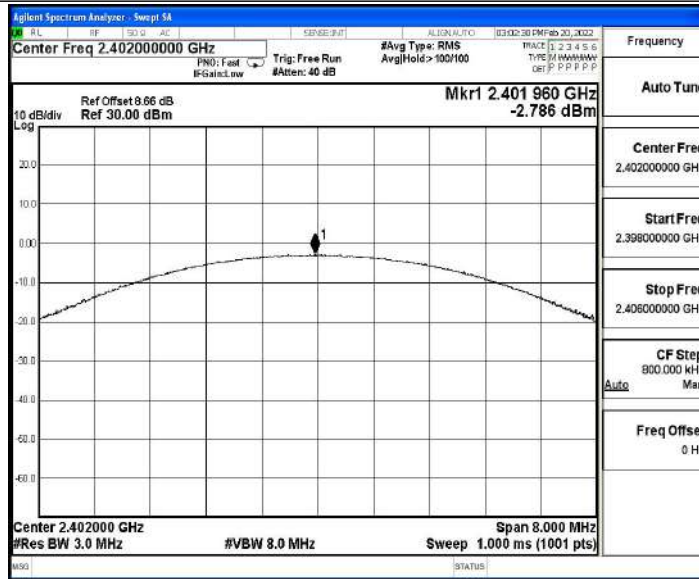
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.79	≤30	PASS
		2441	-2.44	≤30	PASS
		2480	-2.69	≤30	PASS
2DH5	Ant1	2402	-2.92	≤20.97	PASS
		2441	-2.34	≤20.97	PASS
		2480	-2.87	≤20.97	PASS
3DH5	Ant1	2402	-2.8	≤20.97	PASS
		2441	-2.54	≤20.97	PASS
		2480	-2.76	≤20.97	PASS

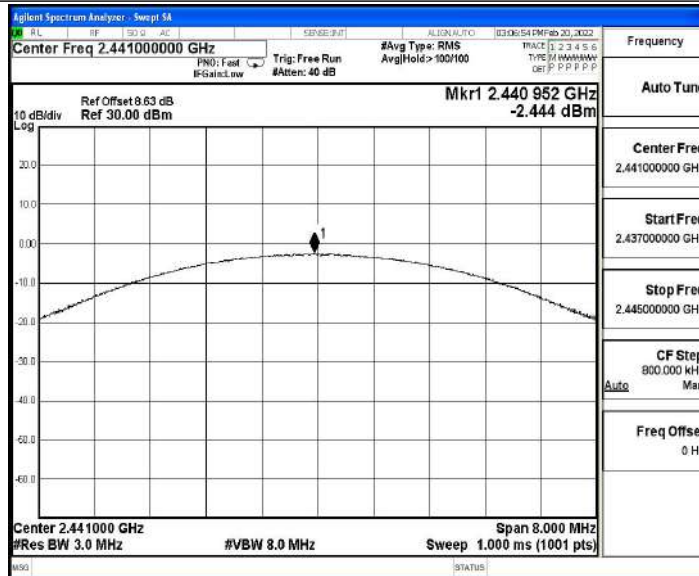


Test Graphs

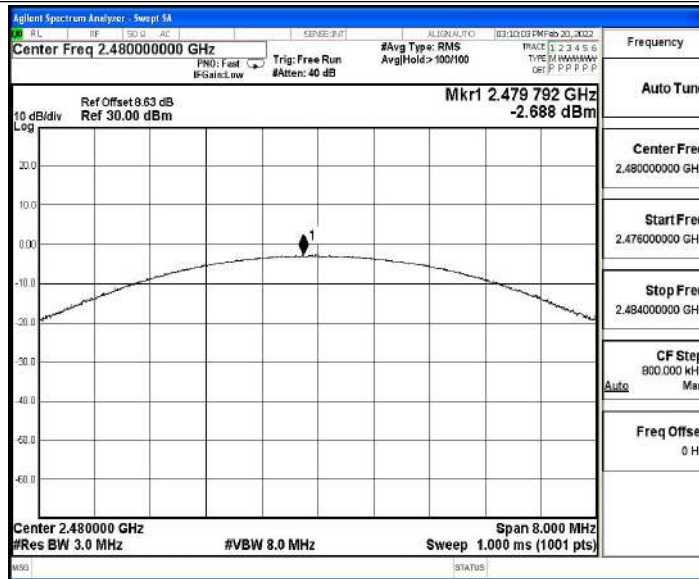
DH5_Ant1_2402



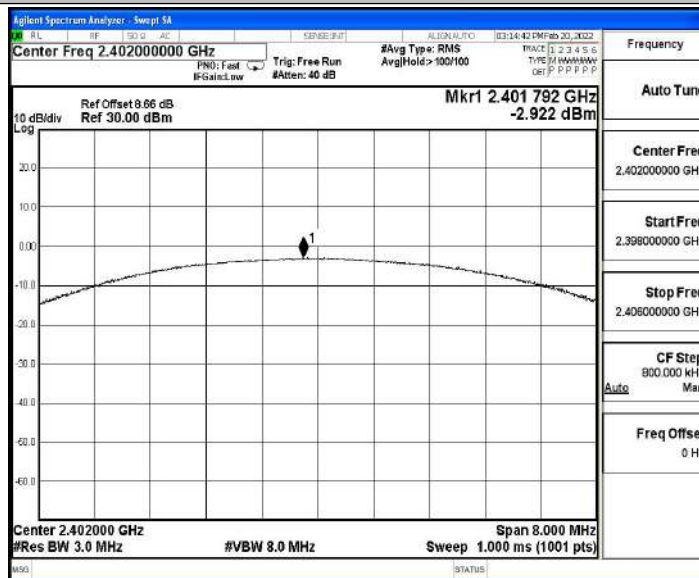
DH5_Ant1_2441



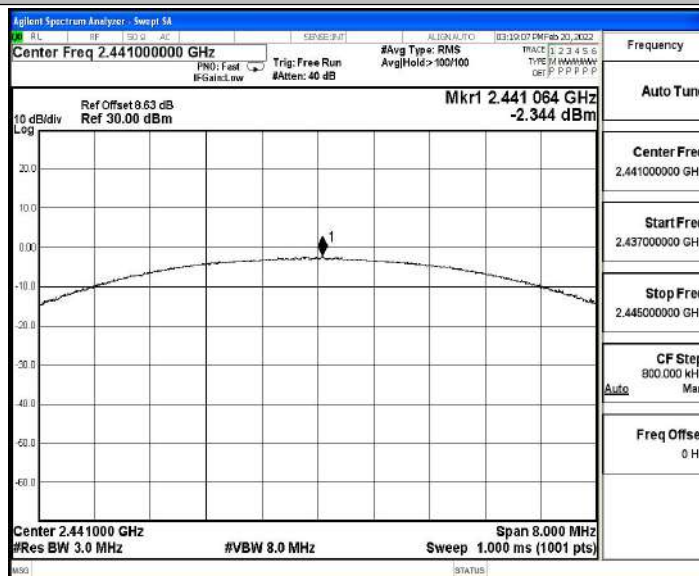
DH5_Ant1_2480



2DH5_Ant1_2402

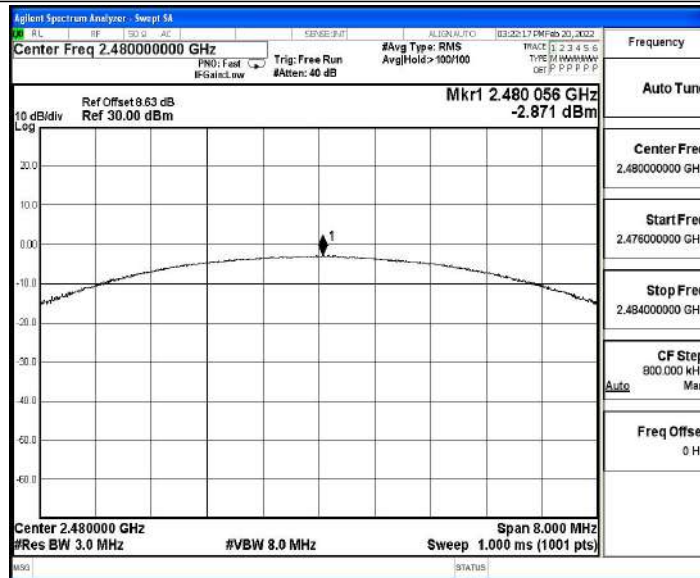


2DH5_Ant1_2441

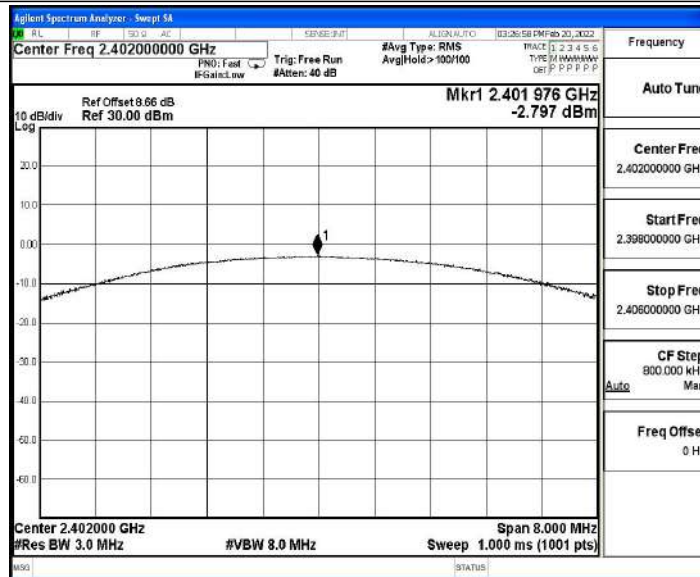




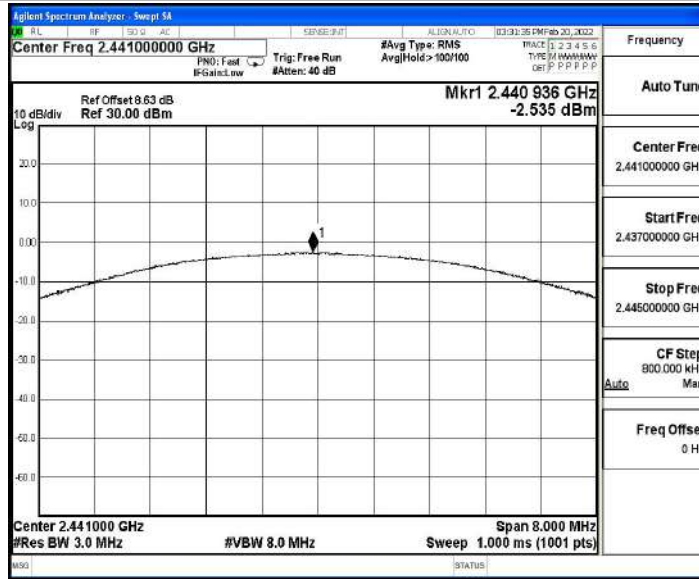
2DH5_Ant1_2480



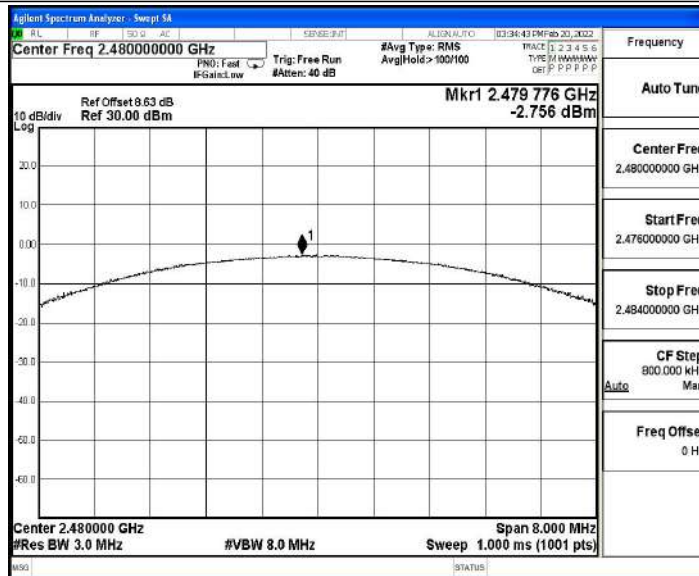
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

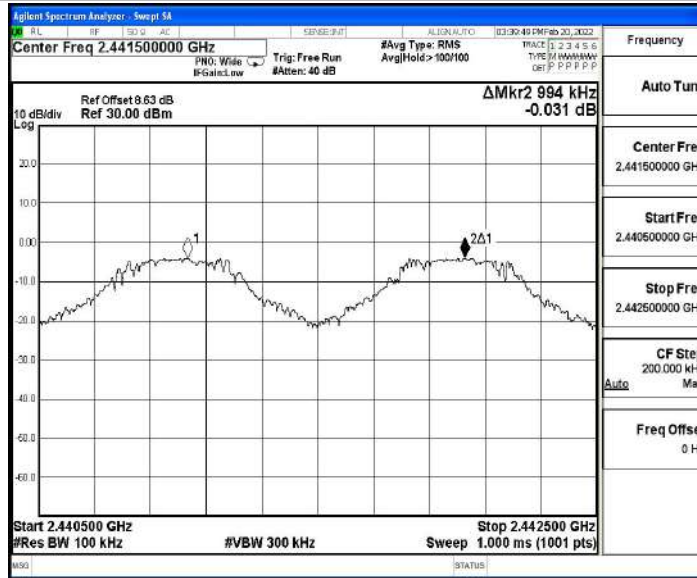
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.930	PASS
2DH5	Ant1	Hop	1.028	≥ 0.948	PASS
3DH5	Ant1	Hop	0.96	≥ 0.920	PASS

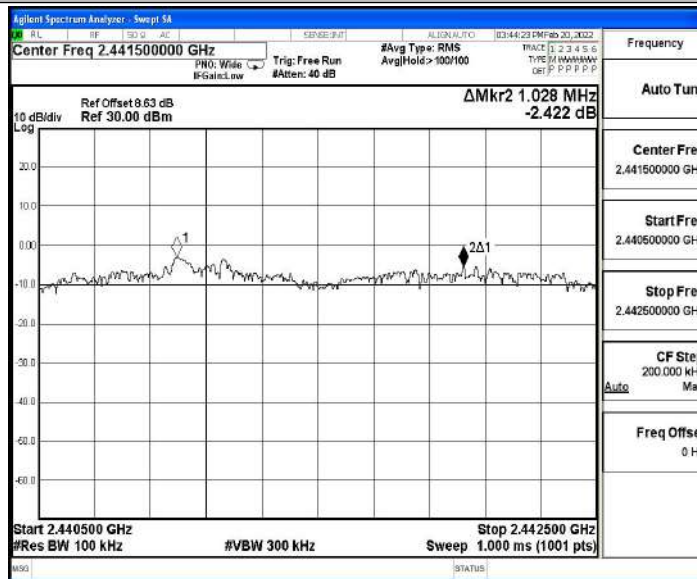


Test Graphs

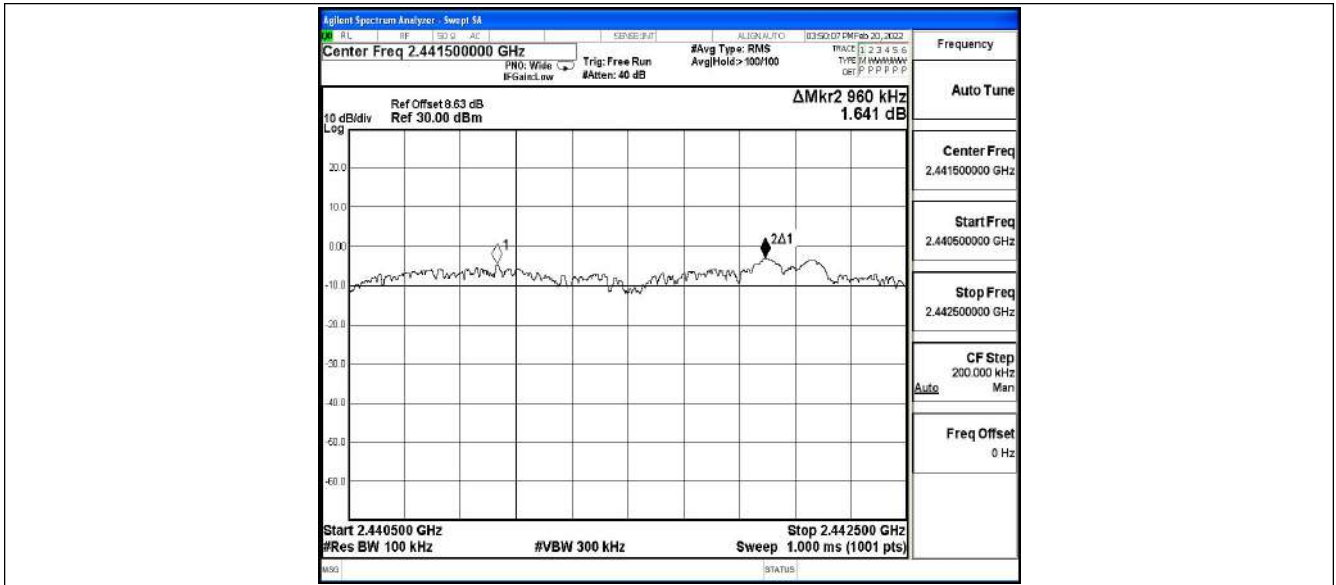
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.4 Time of occupancy

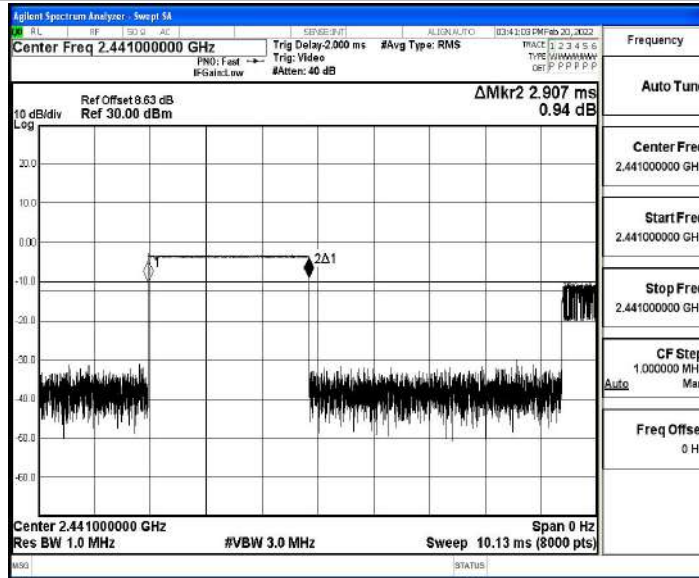
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.91	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.92	106.67	0.311	≤0.4	PASS
3DH5	Ant1	Hop	2.92	106.67	0.311	≤0.4	PASS

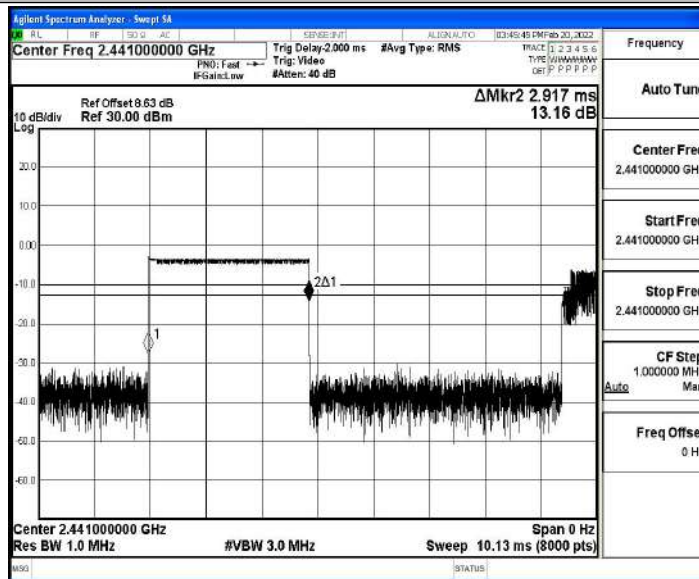


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



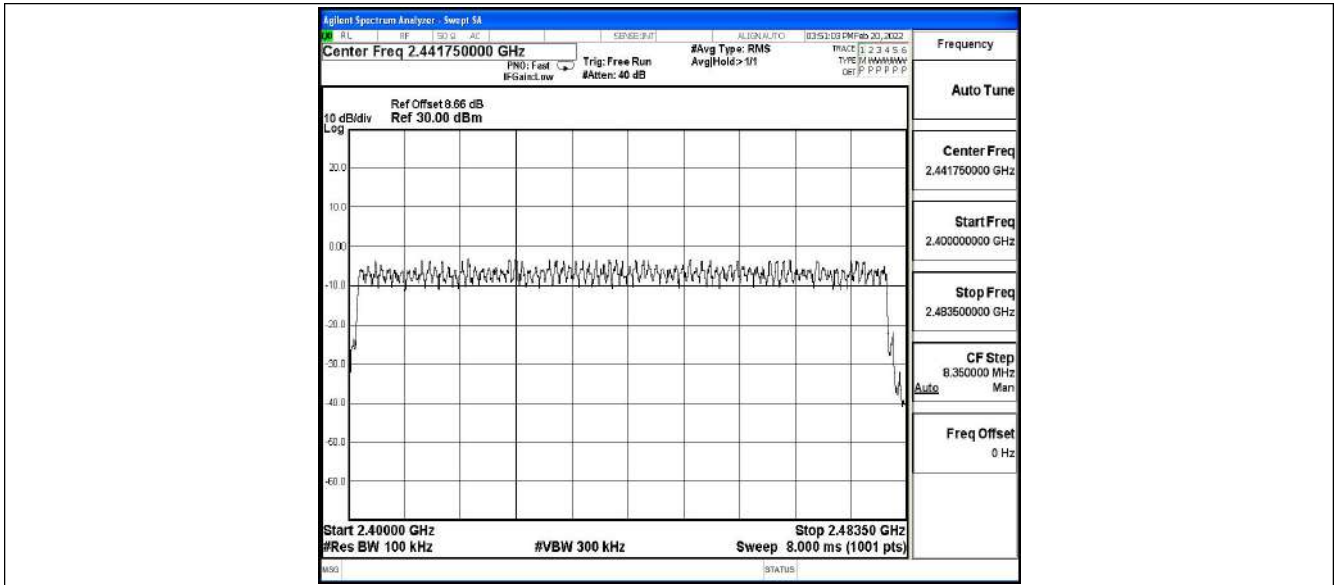
3DH5_Ant1_Hop



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

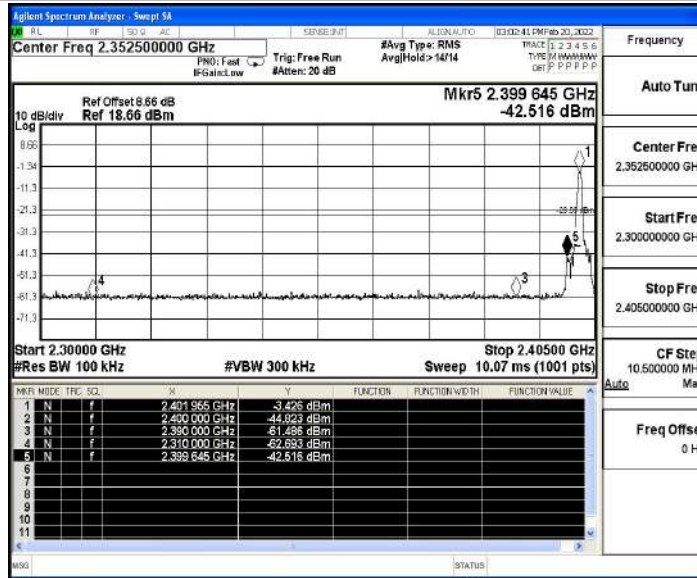
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.93	-42.52	≤ -23.93	PASS
		High	2480	-3.35	-57.55	≤ -23.35	PASS
		Low	Hop_2402	-4.61	-56.1	≤ -24.61	PASS
		High	Hop_2480	-4.10	-57.38	≤ -24.1	PASS
2DH5	Ant1	Low	2402	-3.90	-35.85	≤ -23.9	PASS
		High	2480	-3.28	-45.21	≤ -23.28	PASS
		Low	Hop_2402	-5.92	-54.15	≤ -25.92	PASS
		High	Hop_2480	-4.43	-57.63	≤ -24.43	PASS
3DH5	Ant1	Low	2402	-3.73	-33.66	≤ -23.73	PASS
		High	2480	-3.67	-43.43	≤ -23.67	PASS
		Low	Hop_2402	-5.13	-55.37	≤ -25.13	PASS
		High	Hop_2480	-3.89	-57.51	≤ -23.89	PASS

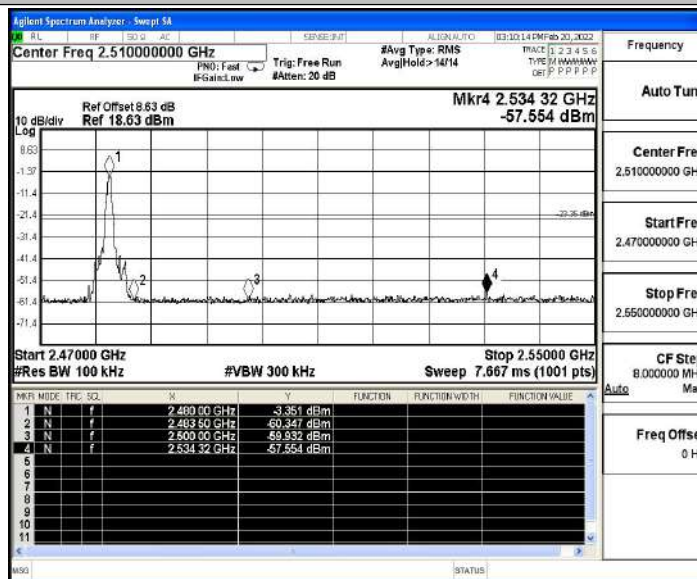


Test Graphs

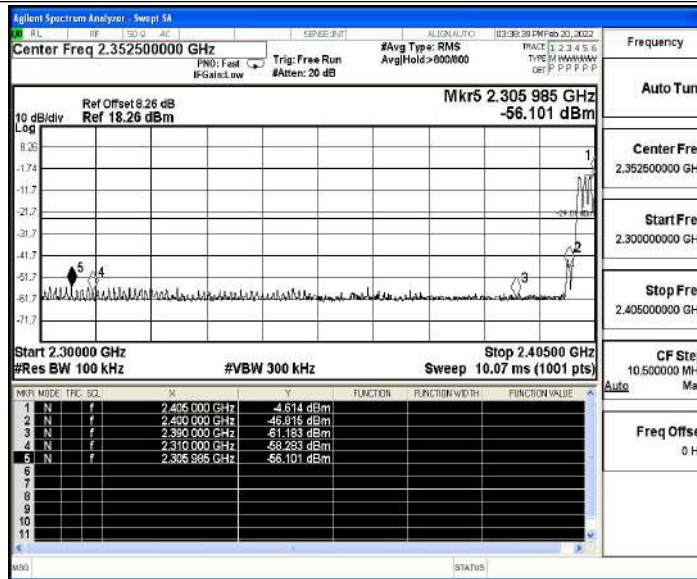
DH5_Ant1_Low_2402



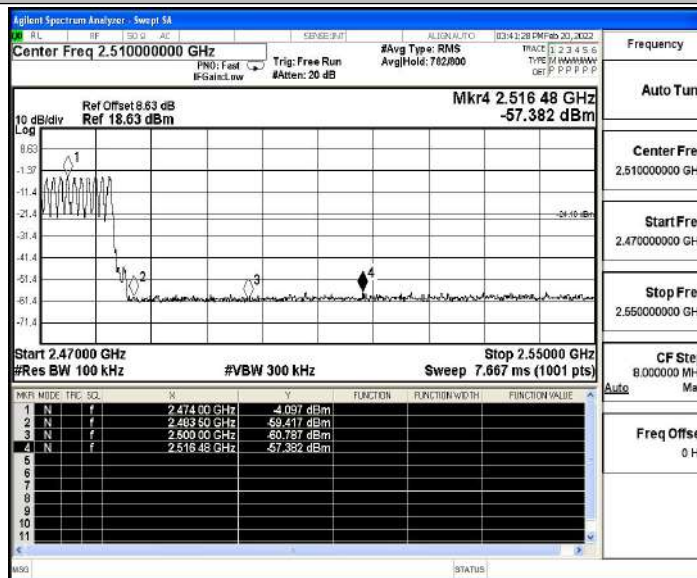
DH5_Ant1_High_2480



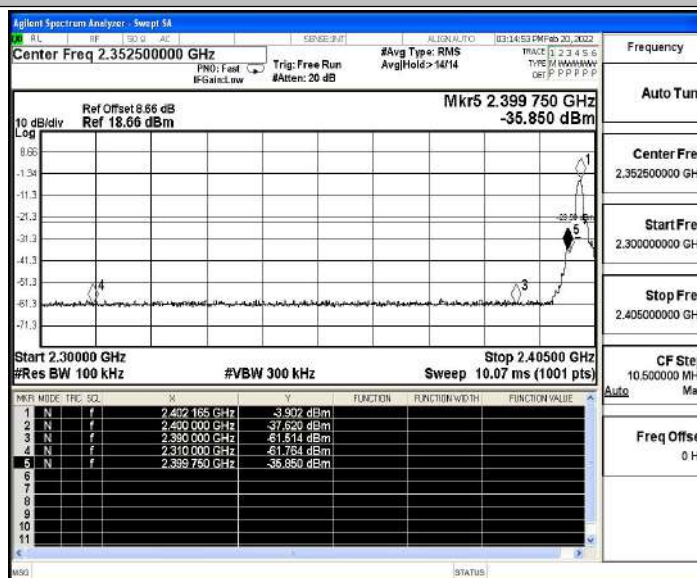
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

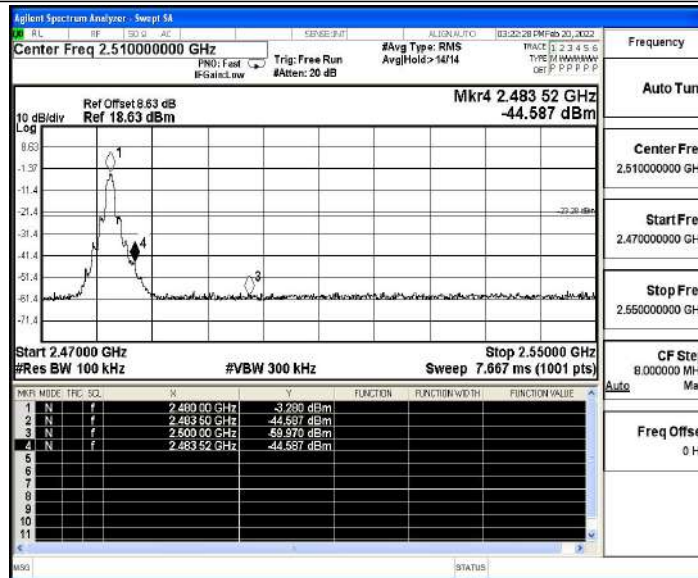


2DH5_Ant1_Low_2402

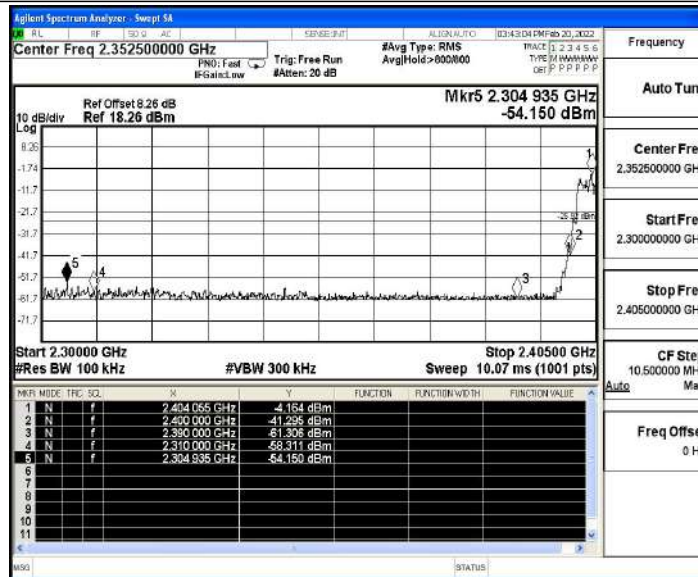




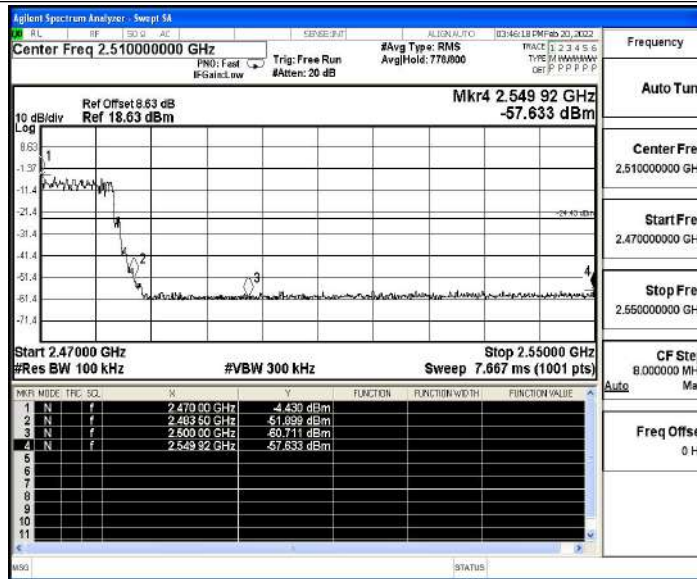
2DH5_Ant1_High_2480



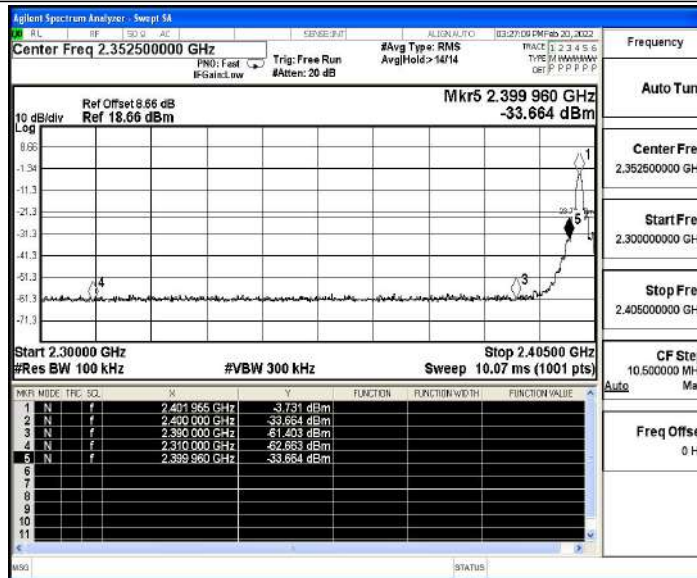
2DH5_Ant1_Low_Hop_2402



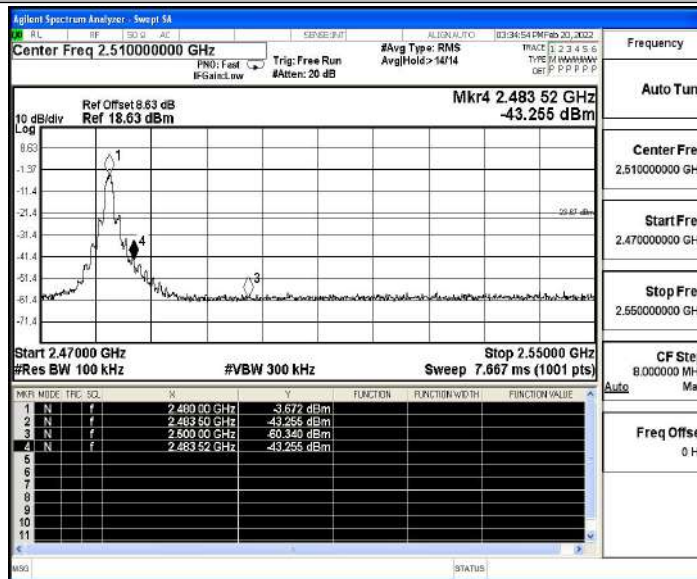
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

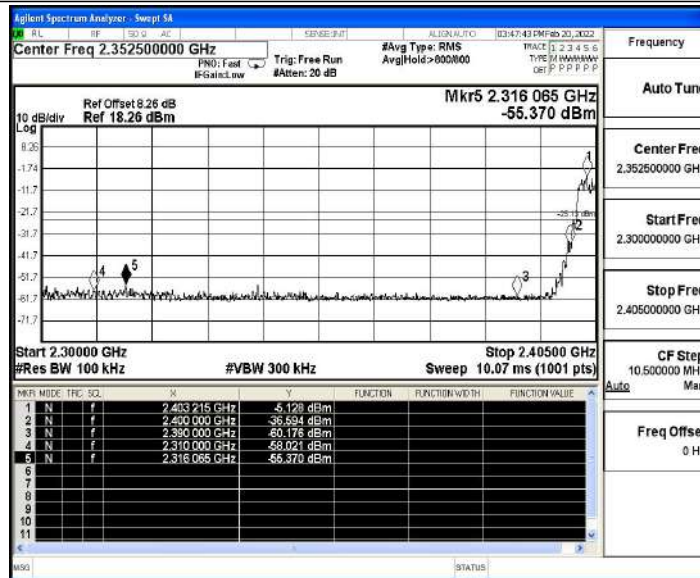


3DH5_Ant1_High_2480

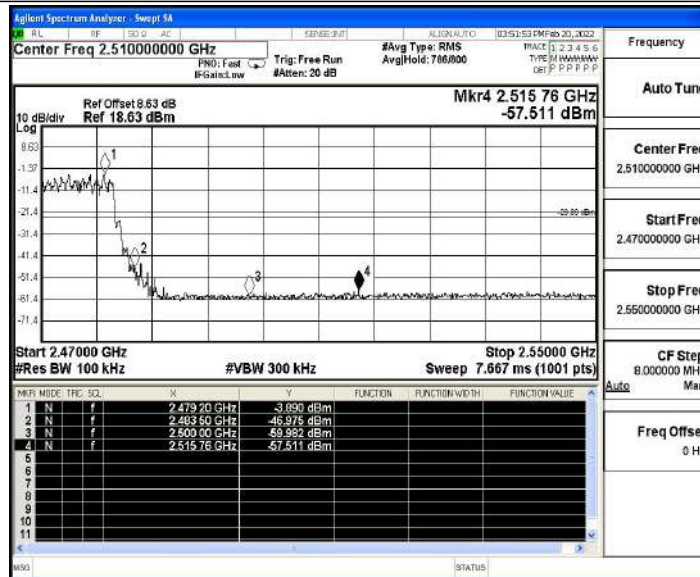




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

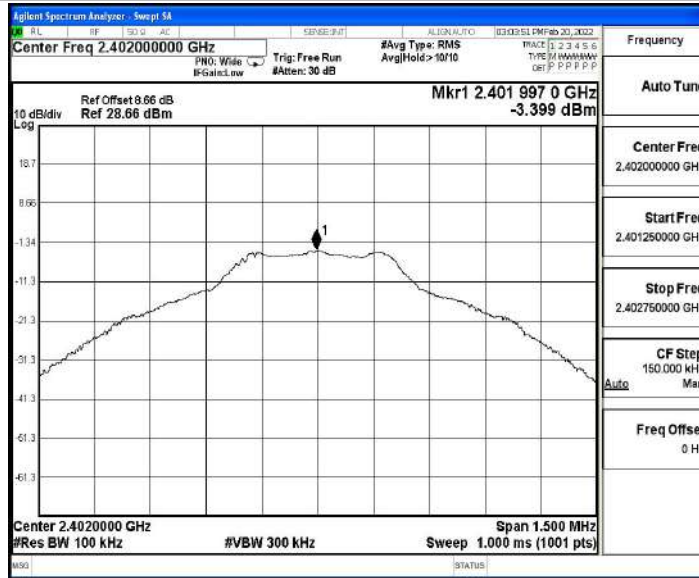
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-60.78	≤-23.4	PASS
			1000~26500	-3.40	-31.15	≤-23.4	PASS
		2441	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-60.82	≤-23.06	PASS
			1000~26500	-3.06	-31.71	≤-23.06	PASS
		2480	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-60.46	≤-23.56	PASS
			1000~26500	-3.56	-33.43	≤-23.56	PASS
2DH5	Ant1	2402	Reference	-3.46	-3.46	---	PASS
			30~1000	-3.46	-60.22	≤-23.46	PASS
			1000~26500	-3.46	-30.68	≤-23.46	PASS
		2441	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-60.25	≤-23.11	PASS
			1000~26500	-3.11	-38.1	≤-23.11	PASS
		2480	Reference	-3.33	-3.33	---	PASS
			30~1000	-3.33	-61.21	≤-23.33	PASS
			1000~26500	-3.33	-33.99	≤-23.33	PASS
3DH5	Ant1	2402	Reference	-3.43	-3.43	---	PASS
			30~1000	-3.43	-60.86	≤-23.43	PASS
			1000~26500	-3.43	-34.07	≤-23.43	PASS
		2441	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-61.03	≤-23.54	PASS
			1000~26500	-3.54	-33.11	≤-23.54	PASS
		2480	Reference	-3.32	-3.32	---	PASS
			30~1000	-3.32	-60.46	≤-23.32	PASS
			1000~26500	-3.32	-37.24	≤-23.32	PASS

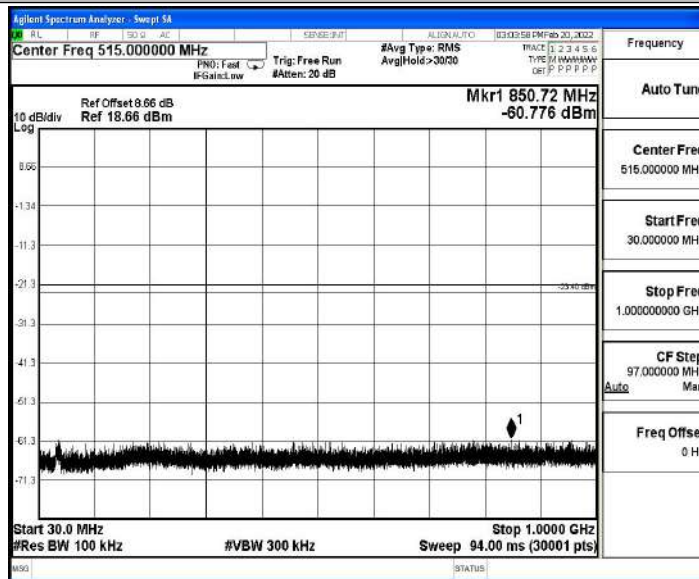


Test Graphs

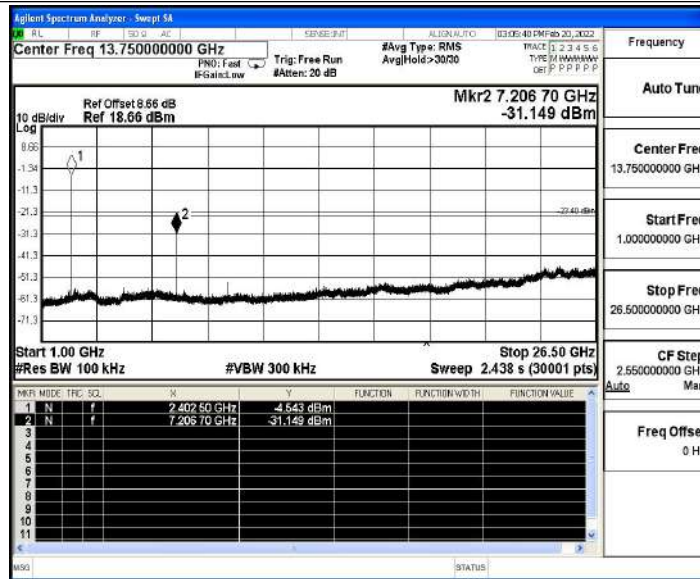
DH5_Ant1_2402_0~Reference



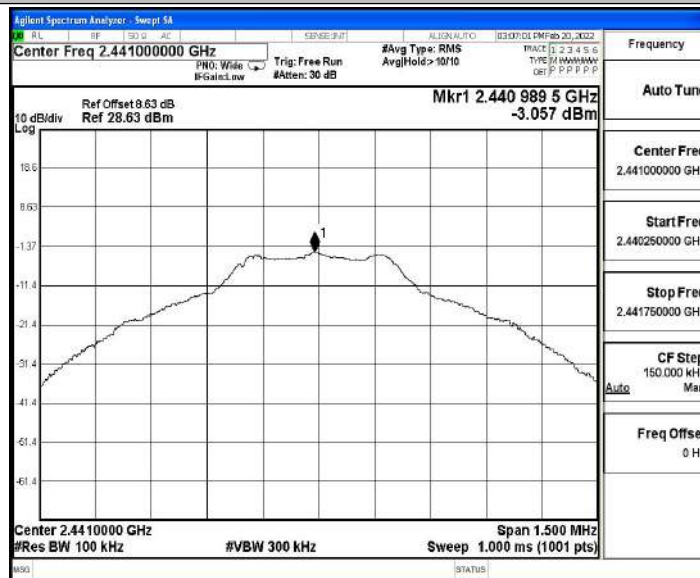
DH5_Ant1_2402_30~1000



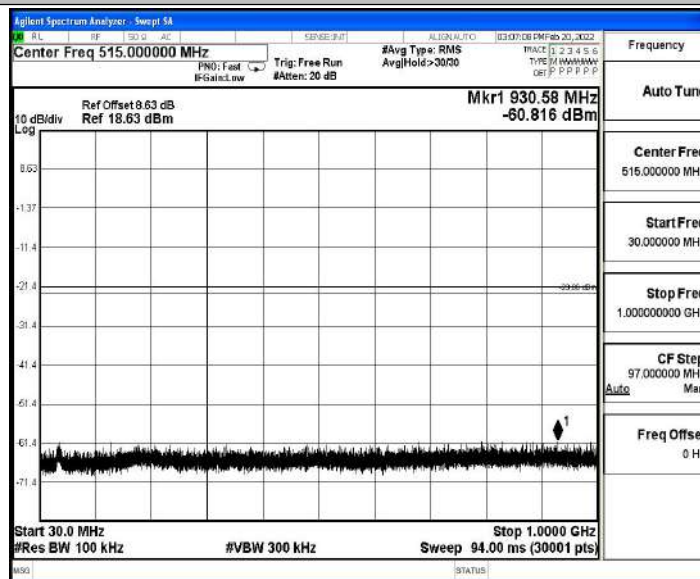
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

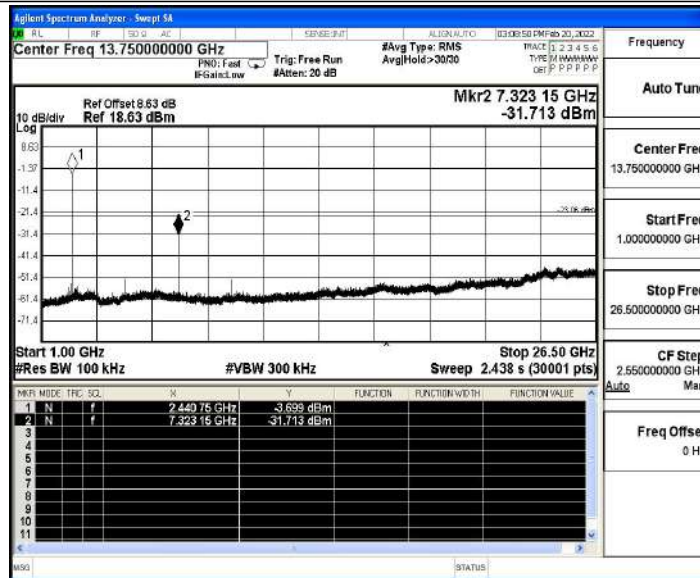


DH5_Ant1_2441_30~1000

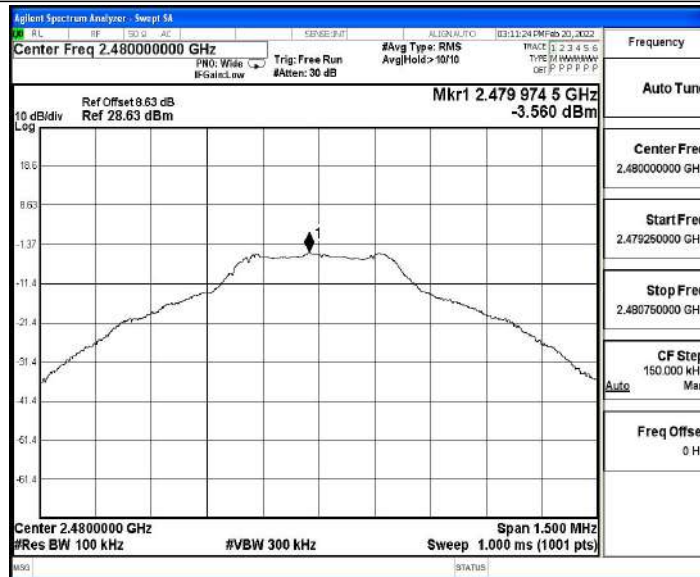




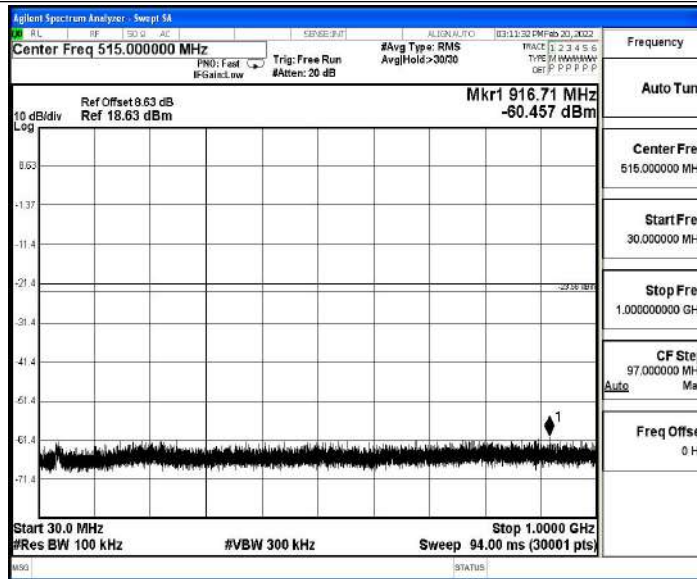
DH5_Ant1_2441_1000~26500



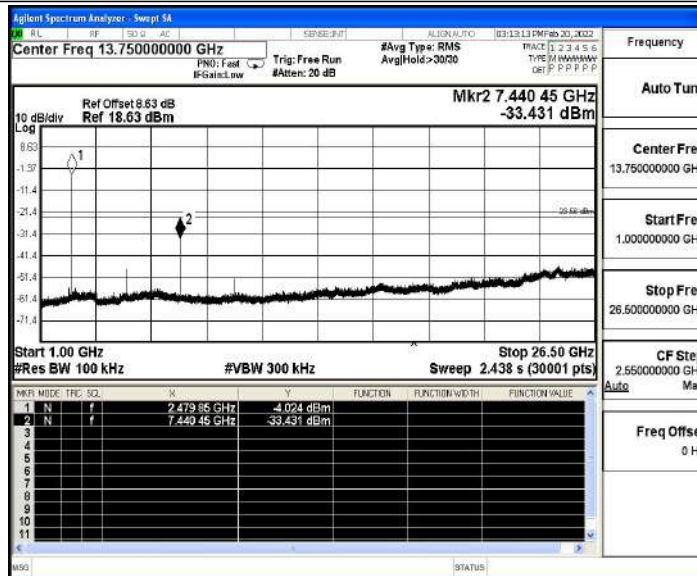
DH5_Ant1_2480_0~Reference



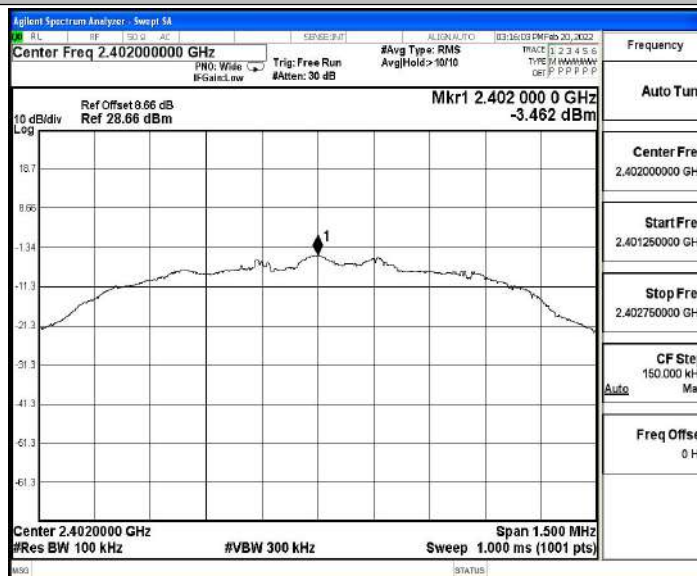
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

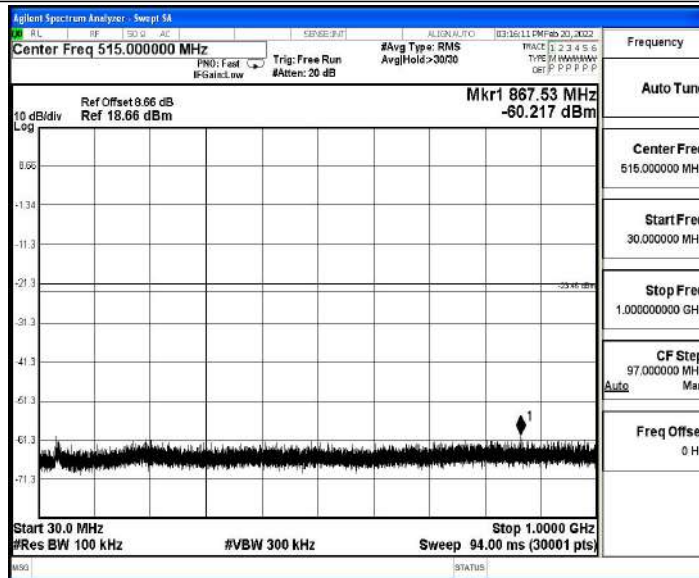


2DH5_Ant1_2402_0~Reference

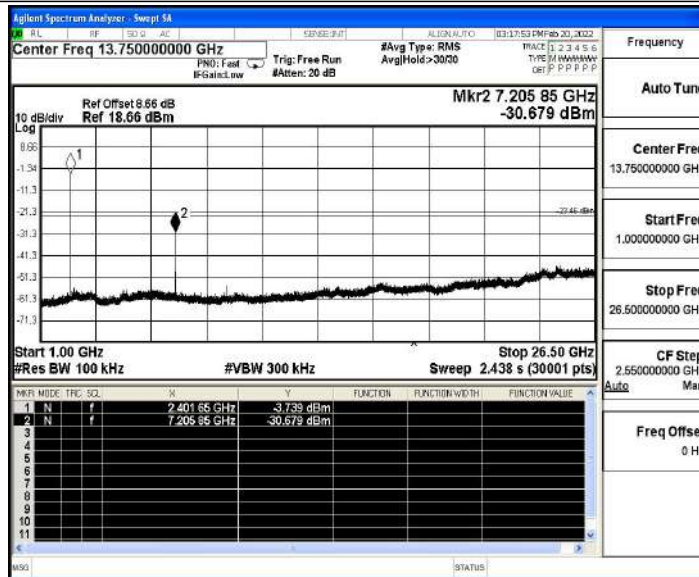




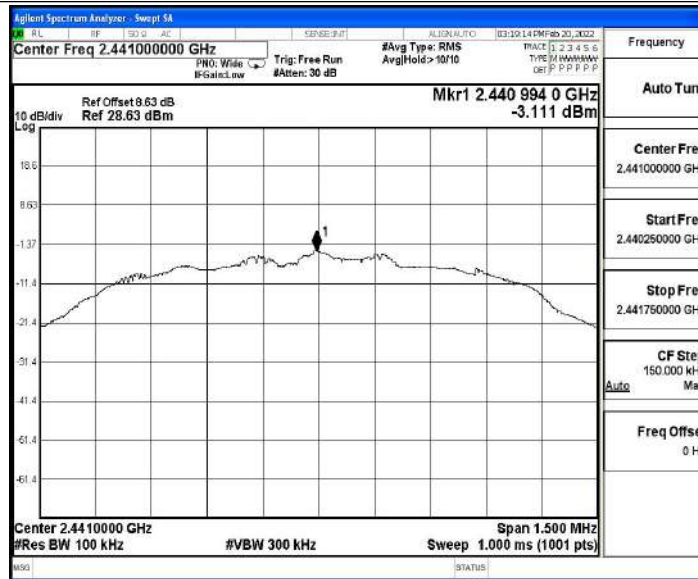
2DH5_Ant1_2402_30~1000



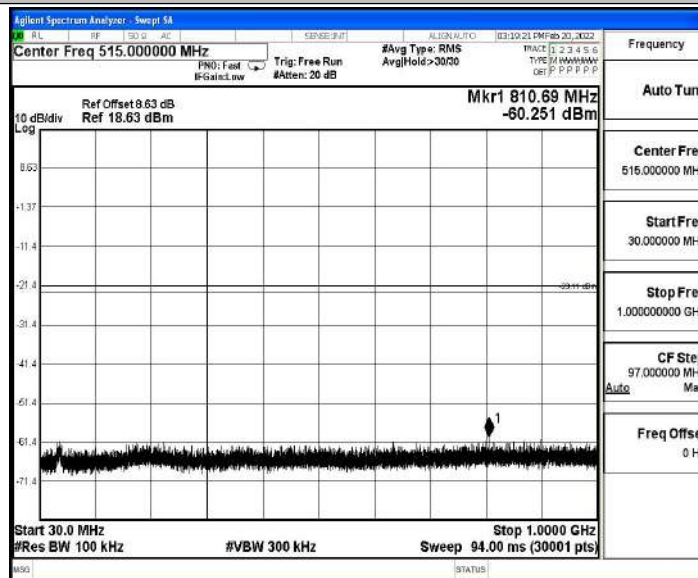
2DH5_Ant1_2402_1000~26500



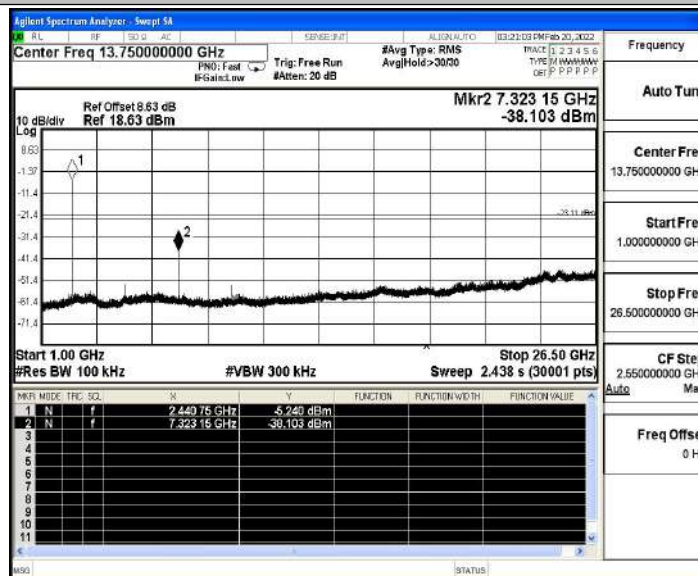
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

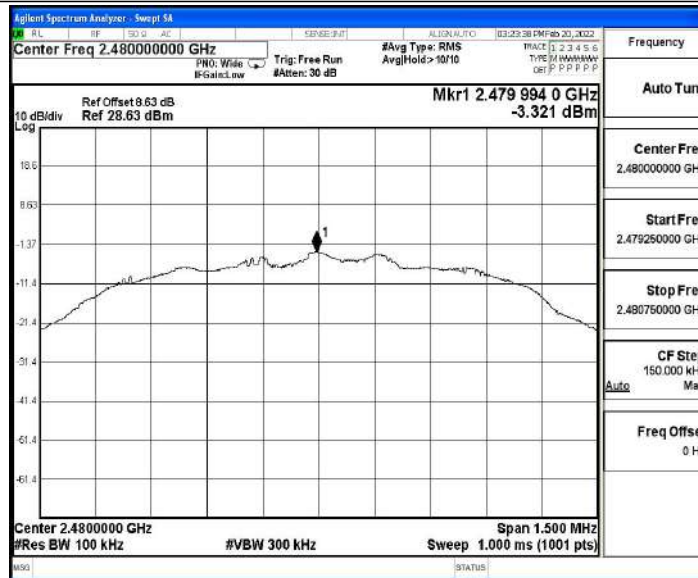


2DH5_Ant1_2441_1000~26500

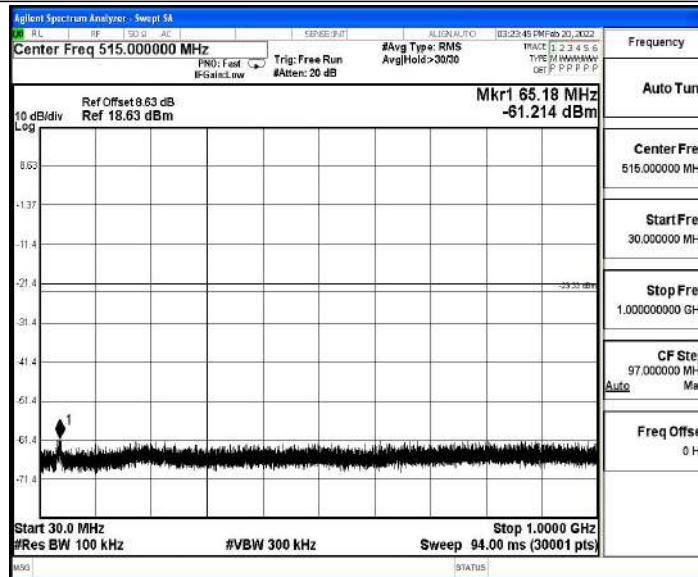




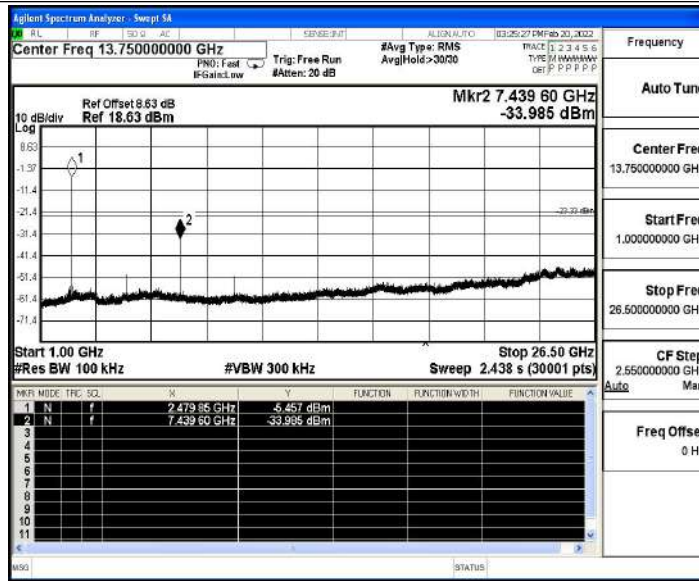
2DH5_Ant1_2480_0~Reference



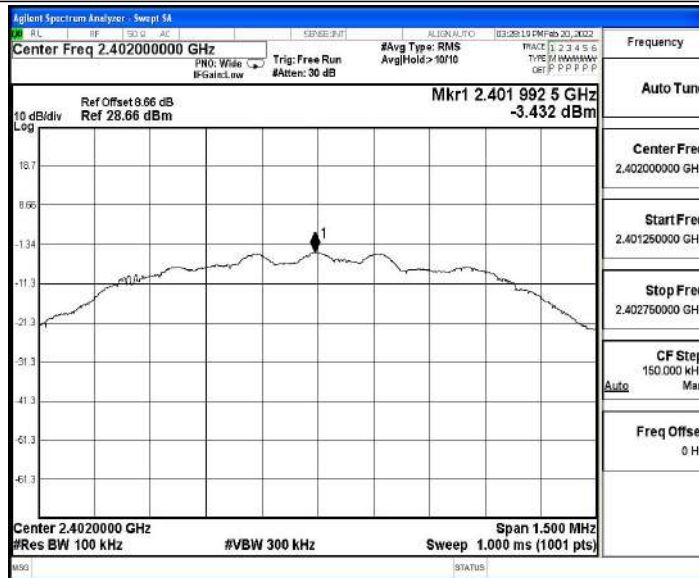
2DH5_Ant1_2480_30~1000



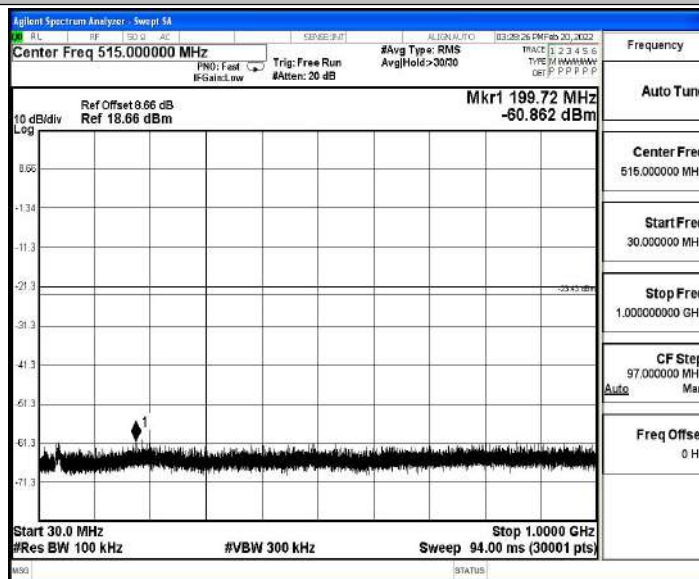
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

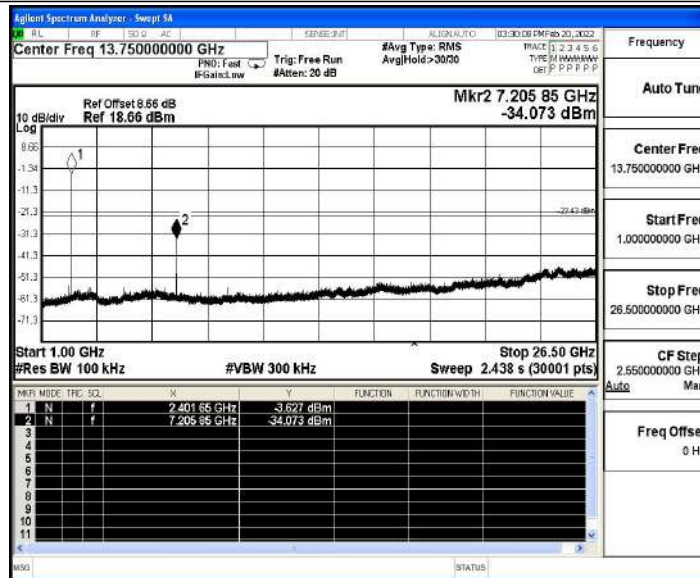


3DH5_Ant1_2402_30~1000

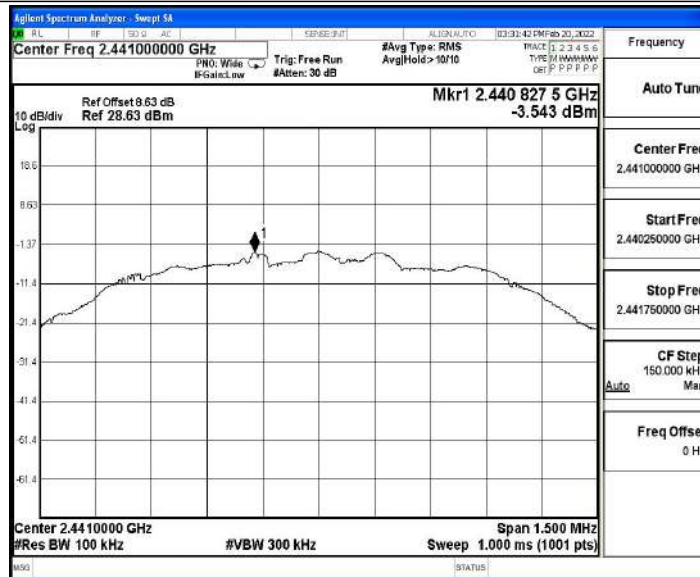




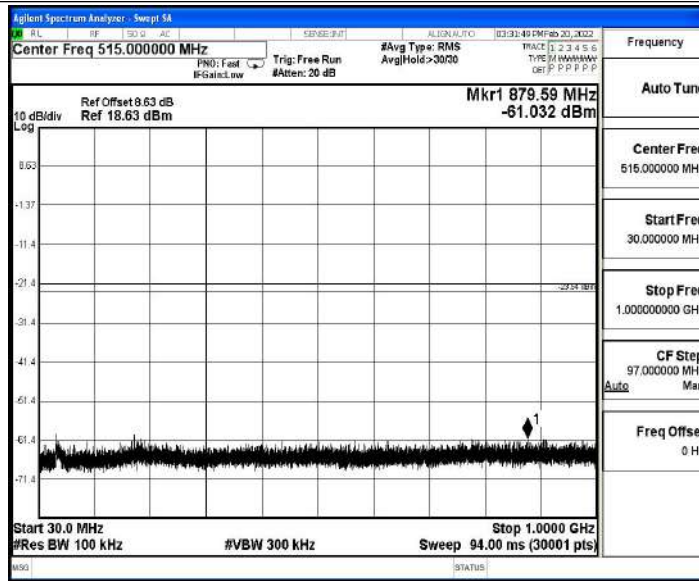
3DH5_Ant1_2402_1000~26500



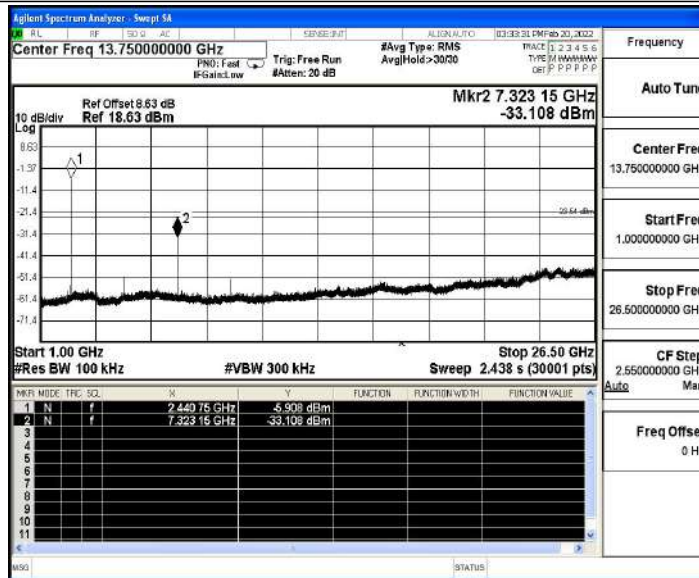
3DH5_Ant1_2441_0~Reference



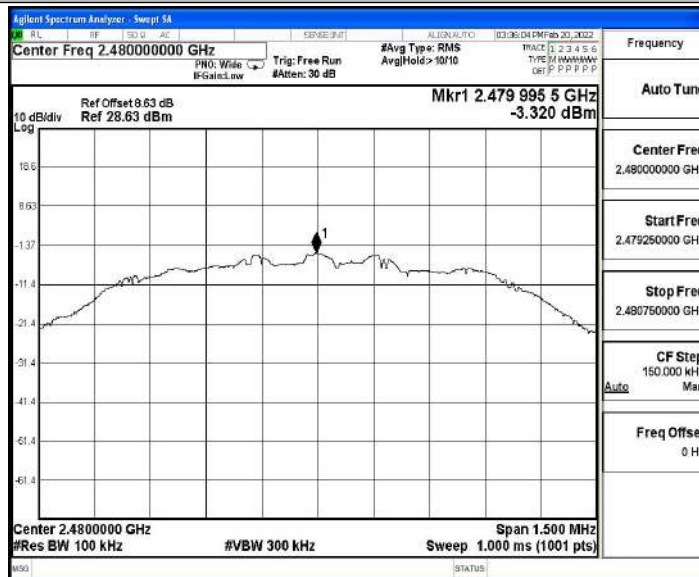
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

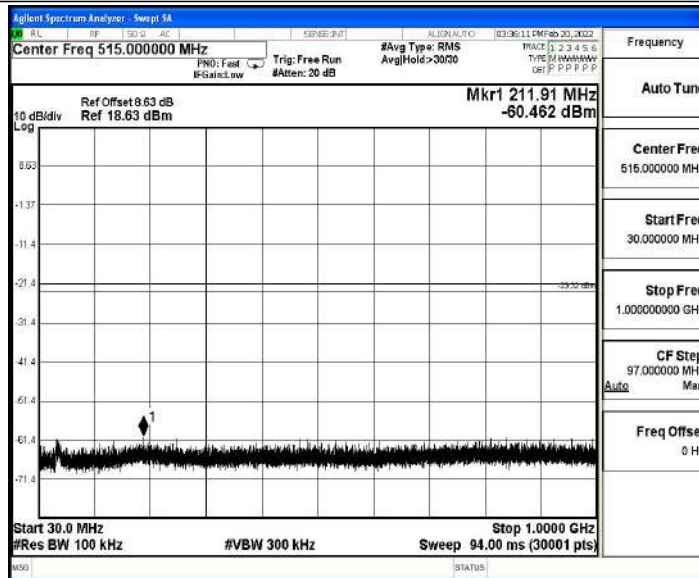


3DH5_Ant1_2480_0~Reference

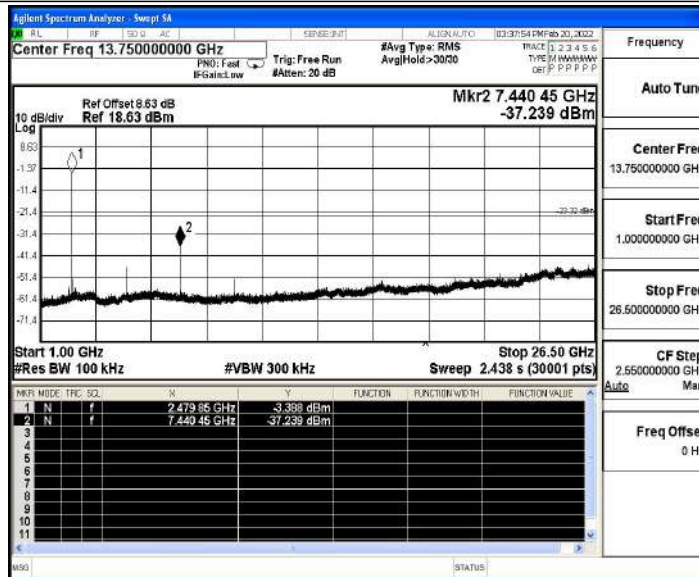




3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500





A.8 Emissions in Restricted Bands

Test Result

Test Mode	Antenna	Ch Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-58.17	≤-41.20	37.03	≤54	PASS
				AV	2376.125	-57.17	≤-41.20	38.03	≤54	PASS
				AV	2390.000	-57.6	≤-41.20	37.60	≤54	PASS
				Peak	2310.000	-48.89	≤-21.20	46.31	≤74	PASS
				Peak	2368.670	-46.86	≤-21.20	48.34	≤74	PASS
				Peak	2390.000	-48.71	≤-21.20	46.49	≤74	PASS
		High	2480	AV	2483.500	-53.89	≤-41.20	41.31	≤54	PASS
				AV	2483.520	-53.89	≤-41.20	41.31	≤54	PASS
				AV	2500.000	-57.22	≤-41.20	37.98	≤54	PASS
				Peak	2483.500	-46.35	≤-21.20	48.85	≤74	PASS
				Peak	2493.120	-45.67	≤-21.20	49.53	≤74	PASS
				Peak	2500.000	-48.15	≤-21.20	47.05	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.2	≤-41.20	37.00	≤54	PASS
				AV	2387.990	-57.28	≤-41.20	37.92	≤54	PASS
				AV	2390.000	-57.63	≤-41.20	37.57	≤54	PASS
				Peak	2310.000	-49.24	≤-21.20	45.96	≤74	PASS
				Peak	2389.985	-46.25	≤-21.20	48.95	≤74	PASS
				Peak	2390.000	-46.25	≤-21.20	48.95	≤74	PASS
		High	2480	AV	2483.500	-42.82	≤-41.20	52.38	≤54	PASS
				AV	2483.520	-42.82	≤-41.20	52.38	≤54	PASS
				AV	2500.000	-57.27	≤-41.20	37.93	≤54	PASS
				Peak	2483.500	-29.5	≤-21.20	65.70	≤74	PASS
				Peak	2483.520	-29.5	≤-21.20	65.70	≤74	PASS
				Peak	2500.000	-47.61	≤-21.20	47.59	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-58.09	≤-41.20	37.11	≤54	PASS
				AV	2389.460	-56.86	≤-41.20	38.34	≤54	PASS
				AV	2390.000	-57.68	≤-41.20	37.52	≤54	PASS
				Peak	2310.000	-49.35	≤-21.20	45.85	≤74	PASS
				Peak	2320.685	-46.59	≤-21.20	48.61	≤74	PASS
				Peak	2390.000	-47.73	≤-21.20	47.47	≤74	PASS
		High	2480	AV	2483.500	-41.29	≤-41.20	53.91	≤54	PASS
				AV	2483.520	-41.29	≤-41.20	53.91	≤54	PASS
				AV	2500.000	-57.3	≤-41.20	37.90	≤54	PASS
				Peak	2483.500	-27.19	≤-21.20	68.01	≤74	PASS
				Peak	2483.520	-27.19	≤-21.20	68.01	≤74	PASS
				Peak	2500.000	-48.49	≤-21.20	46.71	≤74	PASS



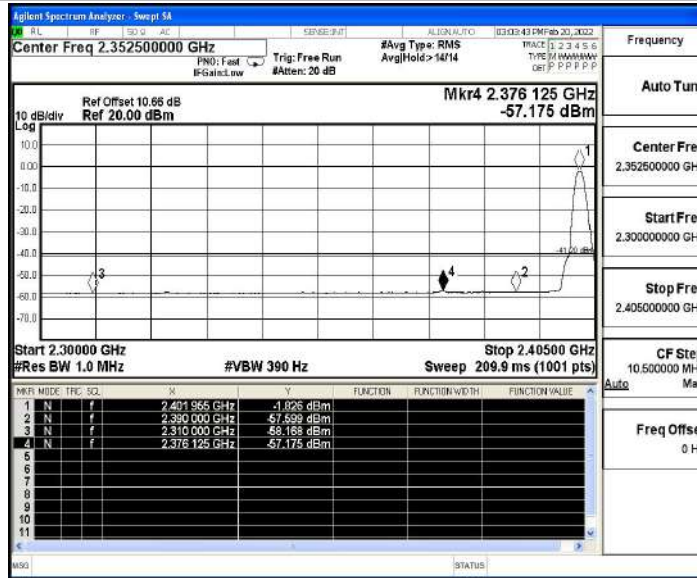
Note:

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.

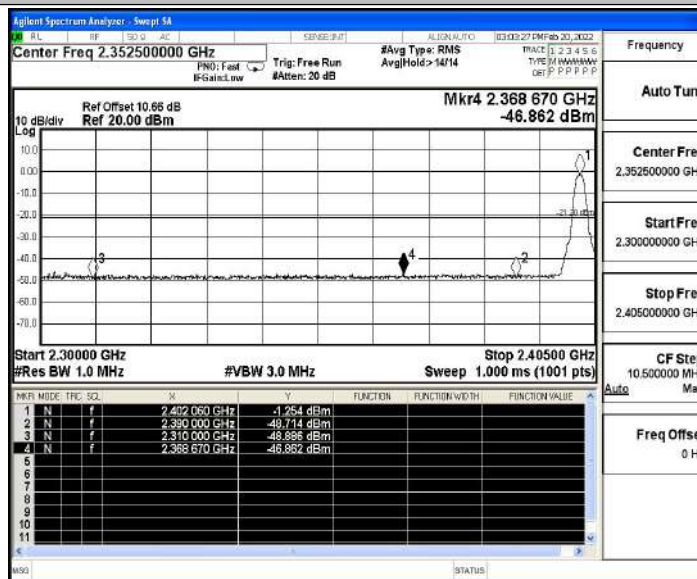


Test Graphs

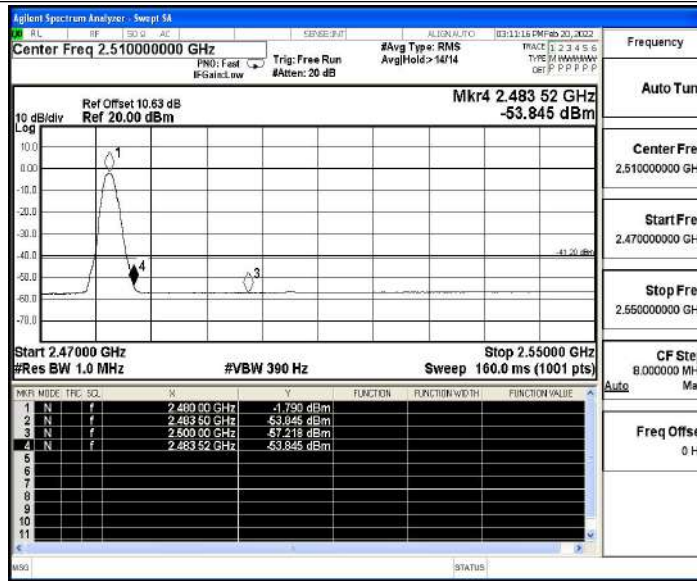
DH5_Ant1_Low_2402_AV



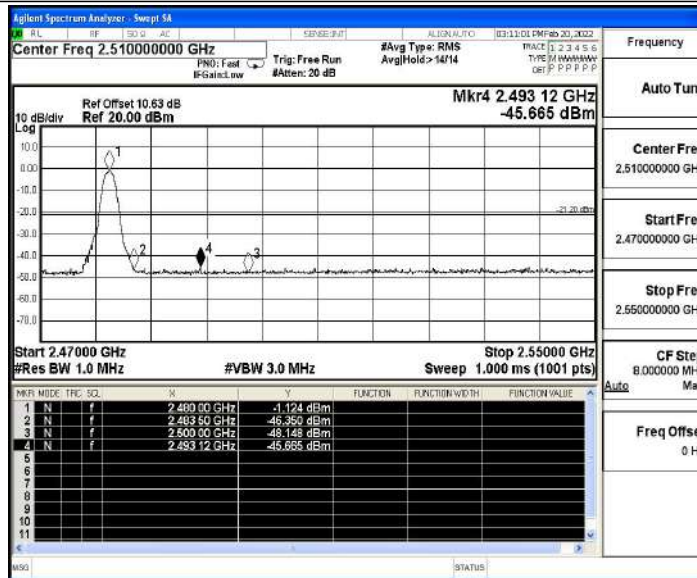
DH5_Ant1_Low_2402_Peak



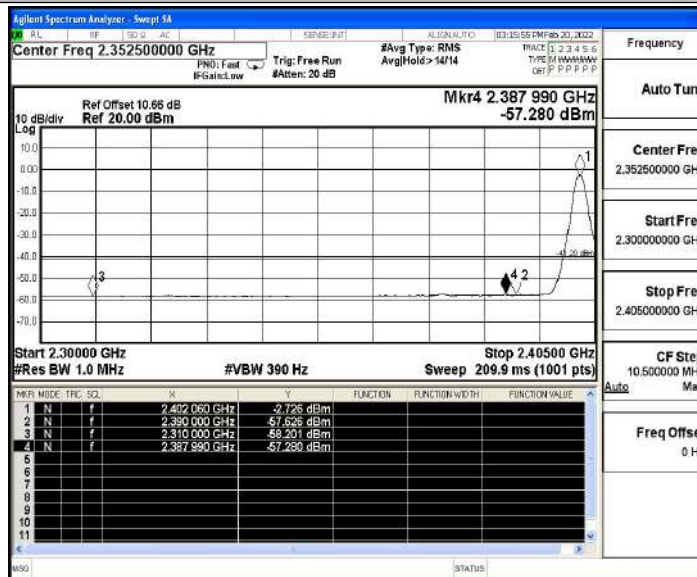
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

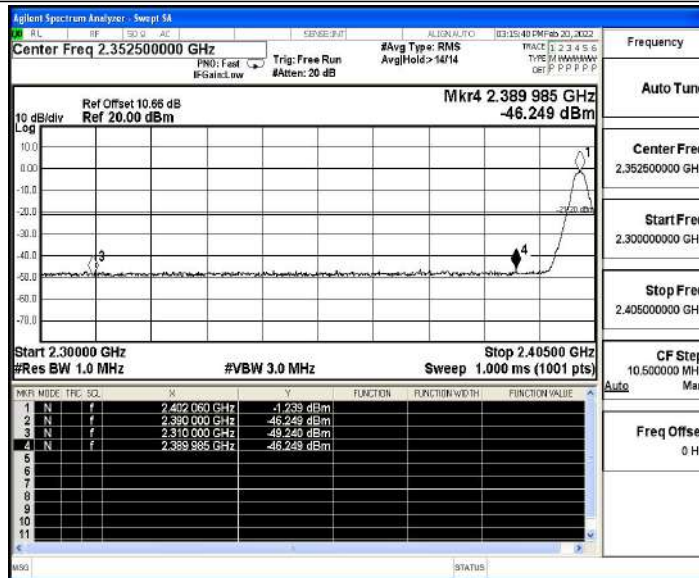


2DH5_Ant1_Low_2402_AV

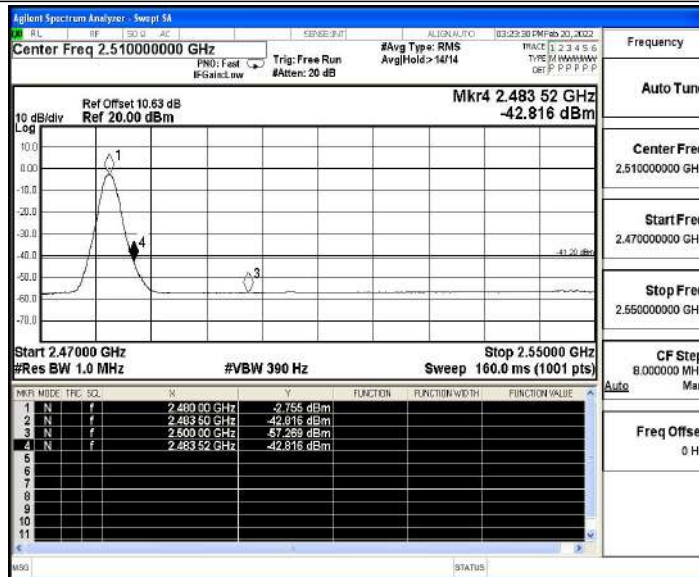




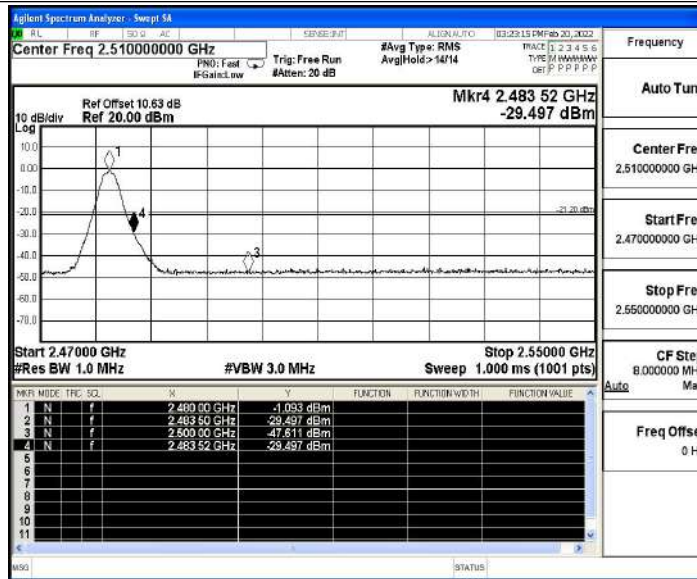
2DH5_Ant1_Low_2402_Peak



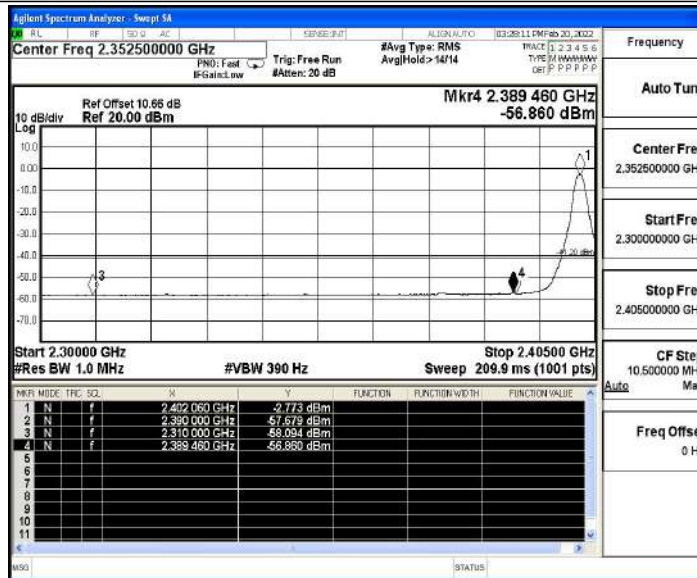
2DH5_Ant1_High_2480_AV



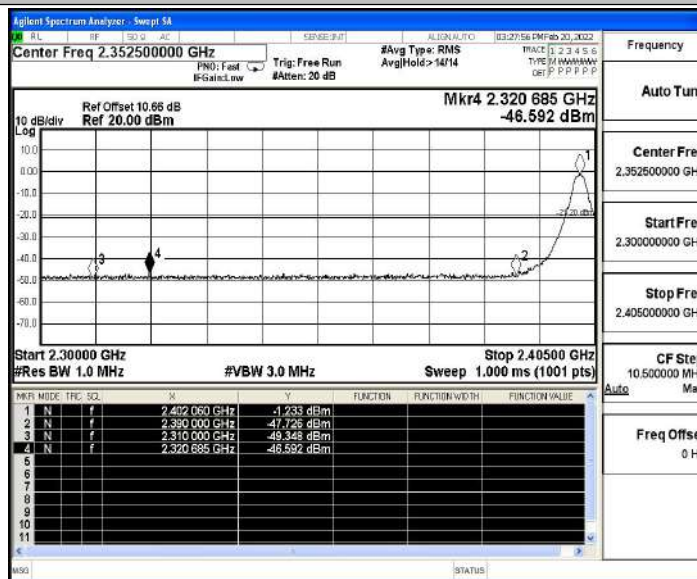
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

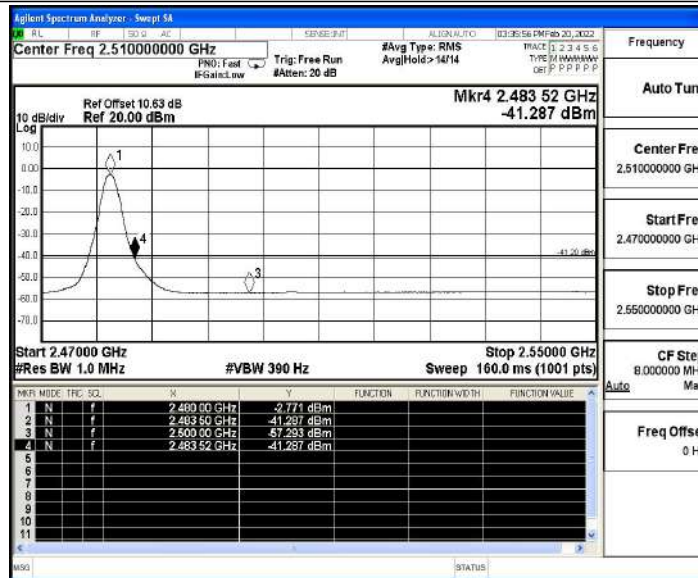


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

