

RF Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: 4K Set Top Box****Trade Mark: N/A****Test Model: Dongle R 4K-SN8BKAJ****FCC ID: 2AOVU-SN8BKAX****Environmental Conditions**

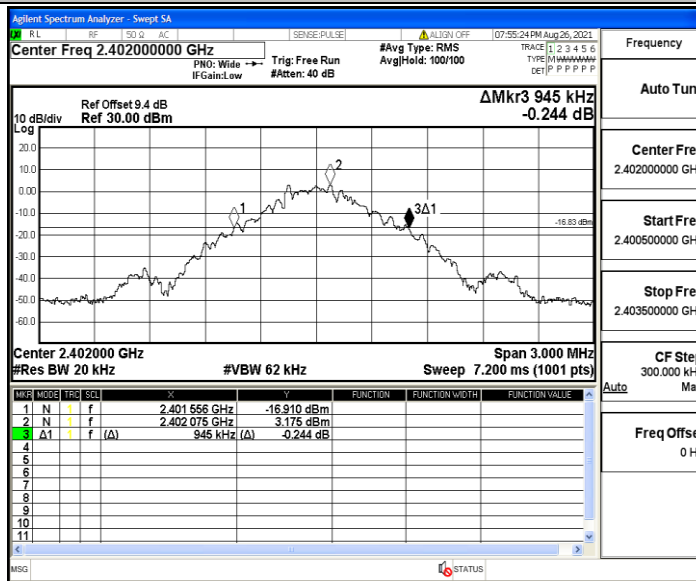
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth**Test Result**

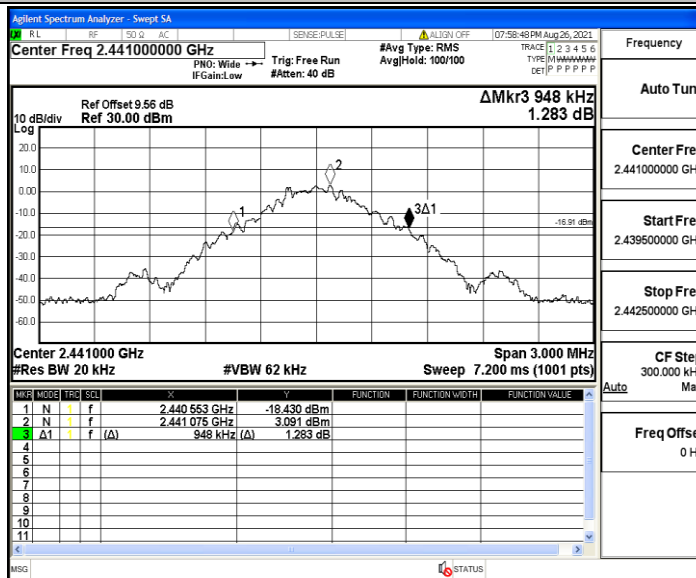
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.556	2402.501	---	PASS
		2441	0.948	2440.553	2441.501	---	PASS
		2480	0.942	2479.556	2480.498	---	PASS
2DH5	Ant1	2402	1.314	2401.358	2402.672	---	PASS
		2441	1.317	2440.358	2441.675	---	PASS
		2480	1.335	2479.352	2480.687	---	PASS
3DH5	Ant1	2402	1.305	2401.364	2402.669	---	PASS
		2441	1.266	2440.370	2441.636	---	PASS
		2480	1.263	2479.373	2480.636	---	PASS

Test Graphs

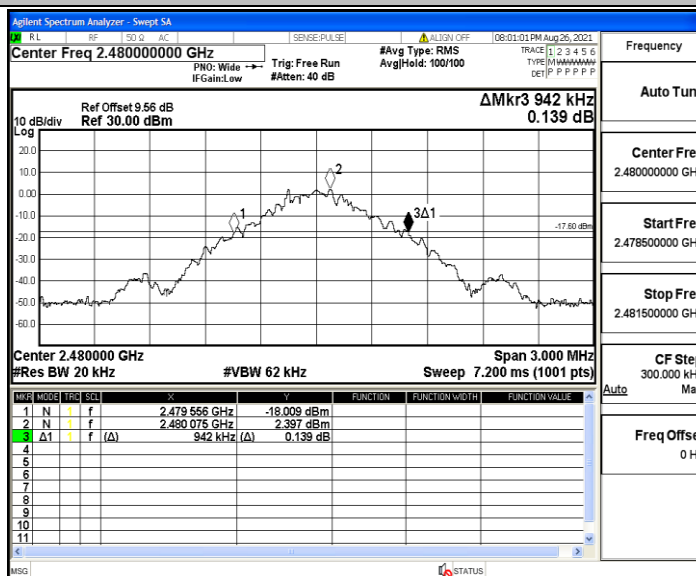
DH5_Ant1_2402



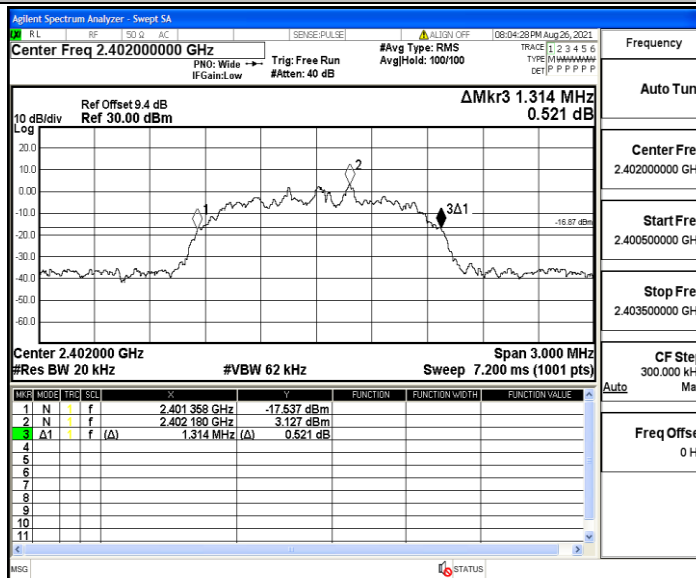
DH5_Ant1_2441



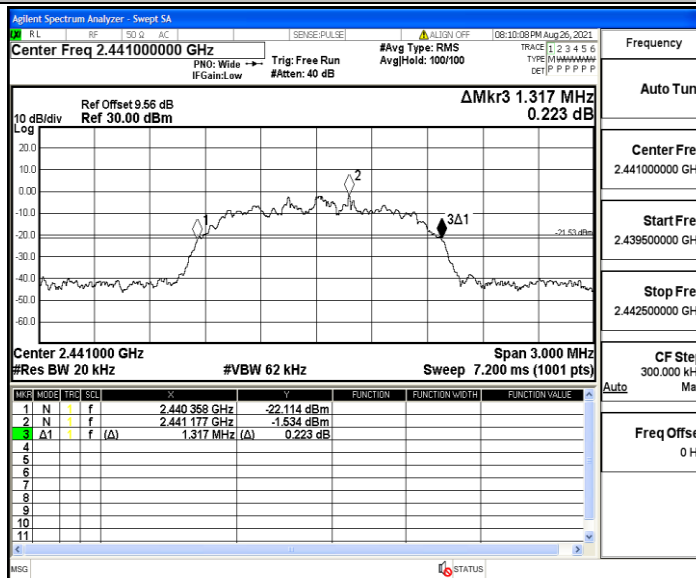
DH5_Ant1_2480



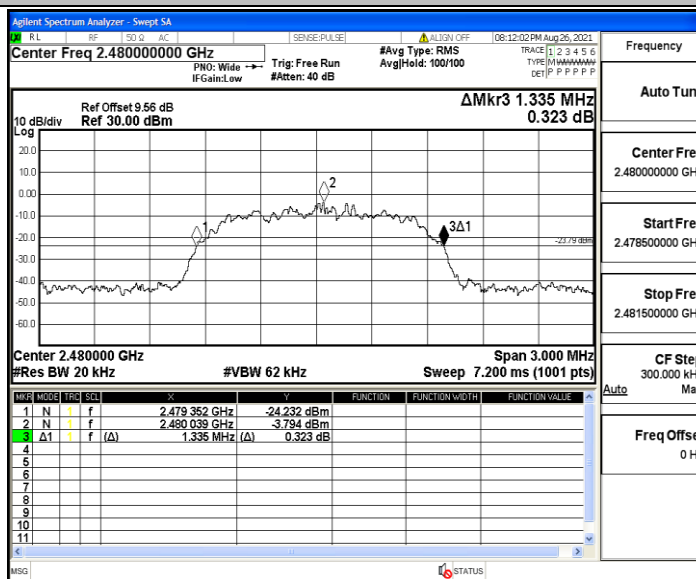
2DH5_Ant1_2402



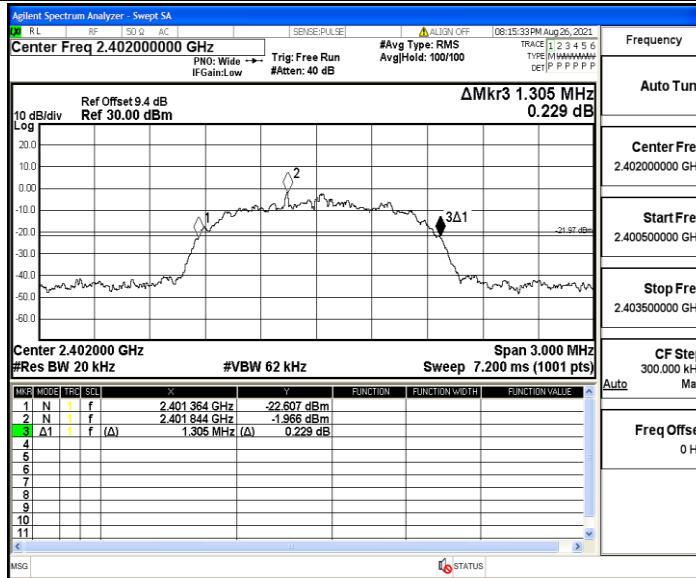
2DH5_Ant1_2441



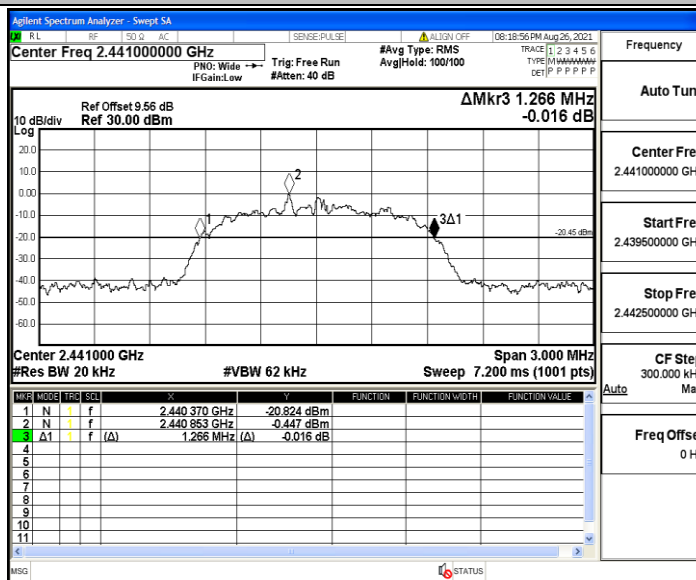
2DH5_Ant1_2480



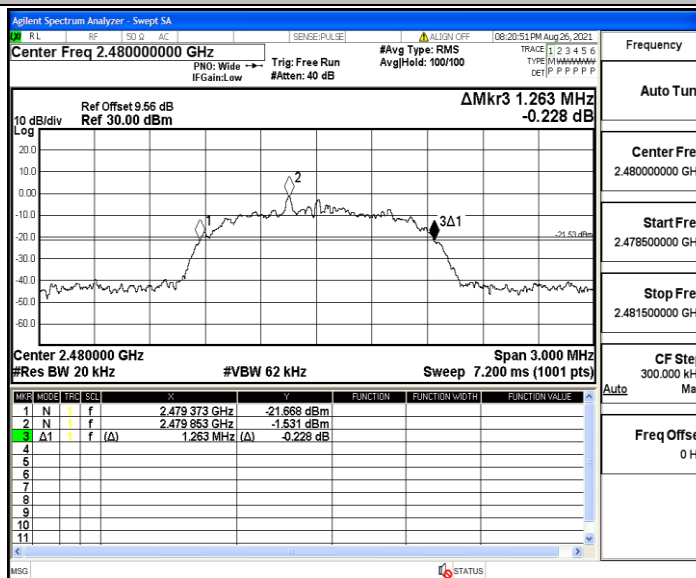
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



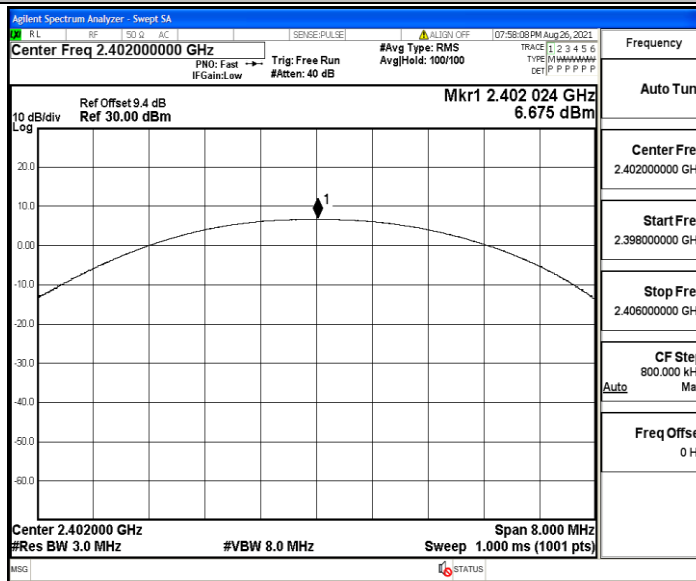
Appendix B: Maximum conducted output power

Test Result

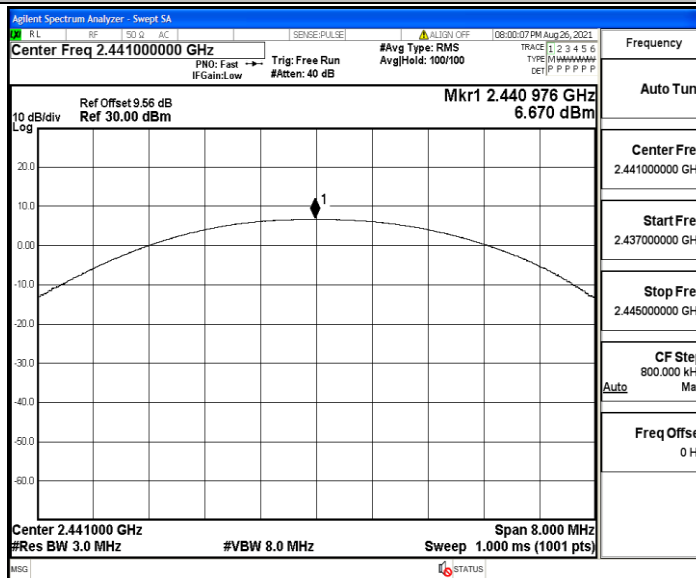
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	6.68	≤30.0	PASS
		2441	6.67	≤30.0	PASS
		2480	5.89	≤30.0	PASS
2DH5	Ant1	2402	7.26	≤20.97	PASS
		2441	4.54	≤20.97	PASS
		2480	3.56	≤20.97	PASS
3DH5	Ant1	2402	4.98	≤20.97	PASS
		2441	4.93	≤20.97	PASS
		2480	4.07	≤20.97	PASS

Test Graphs

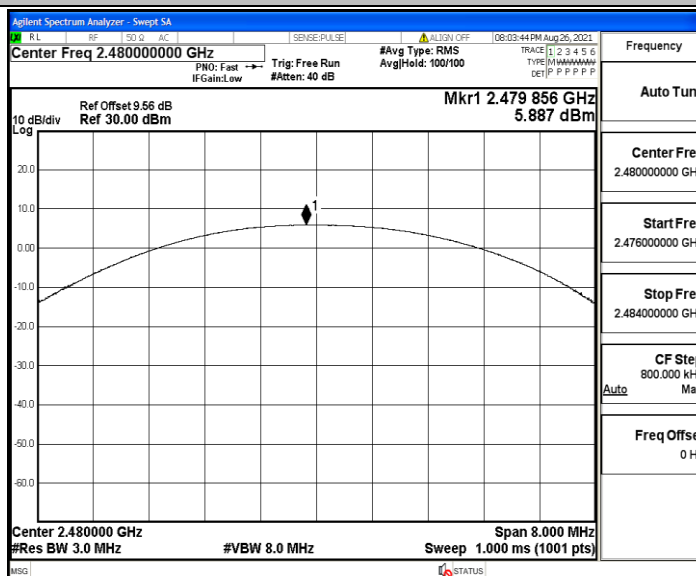
DH5_Ant1_2402



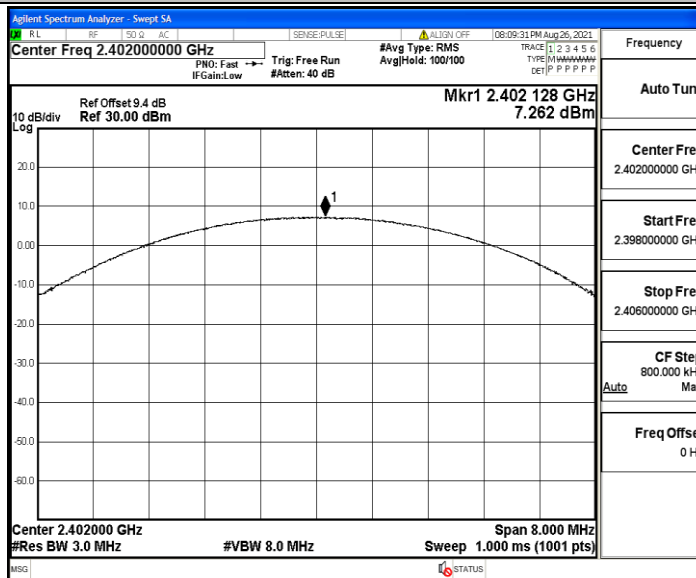
DH5_Ant1_2441



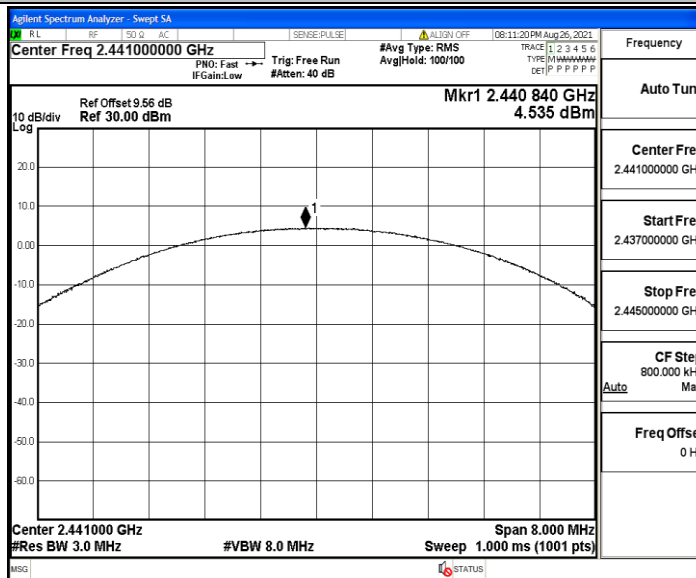
DH5_Ant1_2480



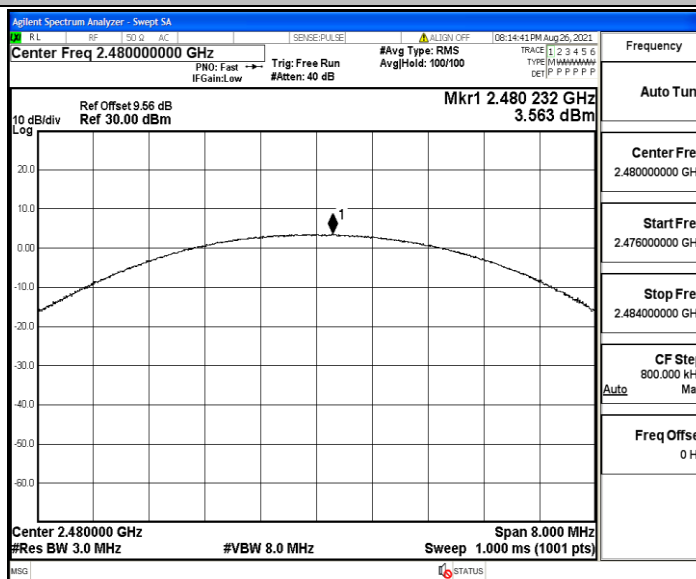
2DH5_Ant1_2402



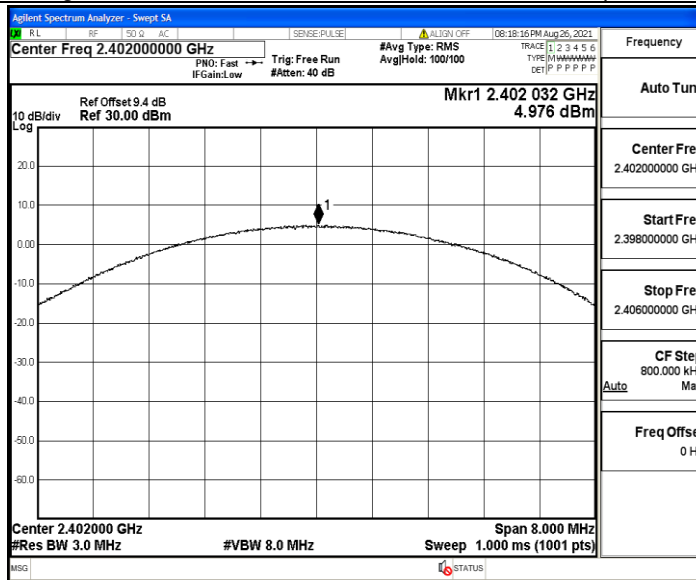
2DH5_Ant1_2441



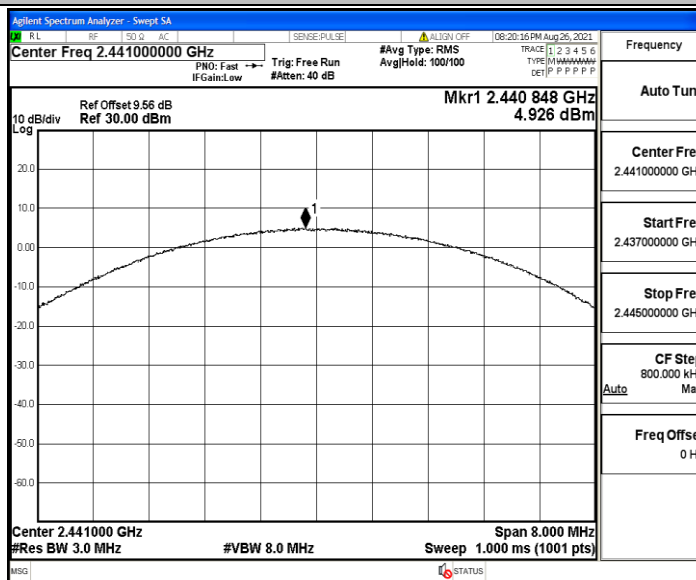
2DH5_Ant1_2480



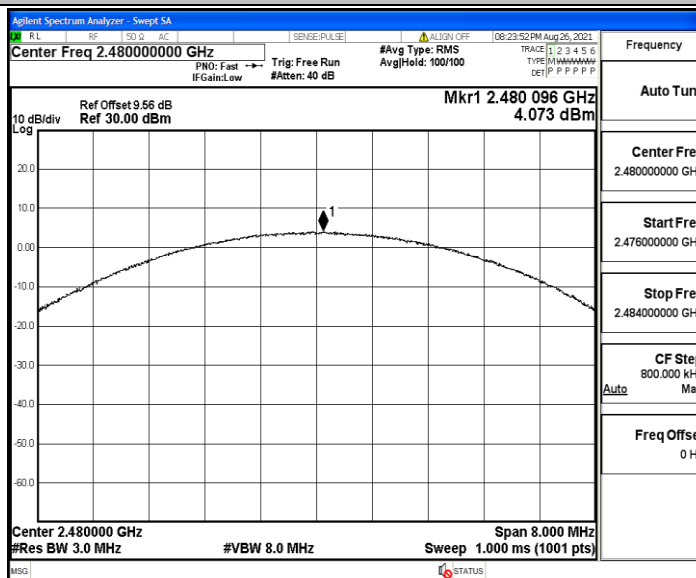
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



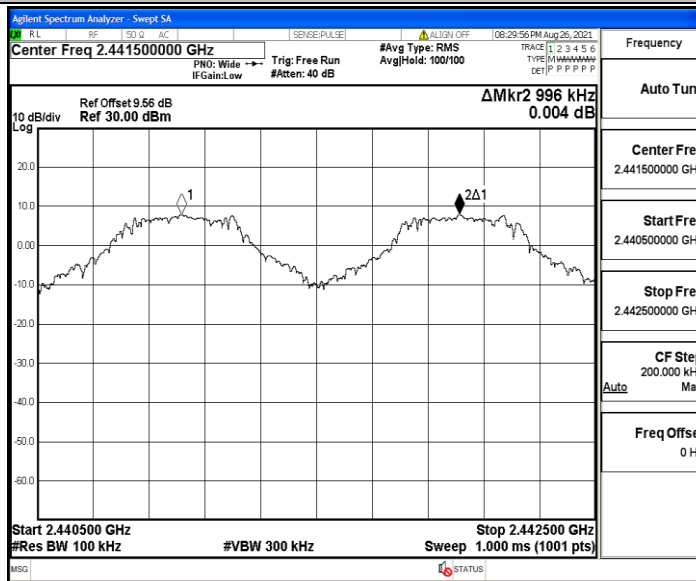
Appendix C: Carrier frequency separation

Test Result

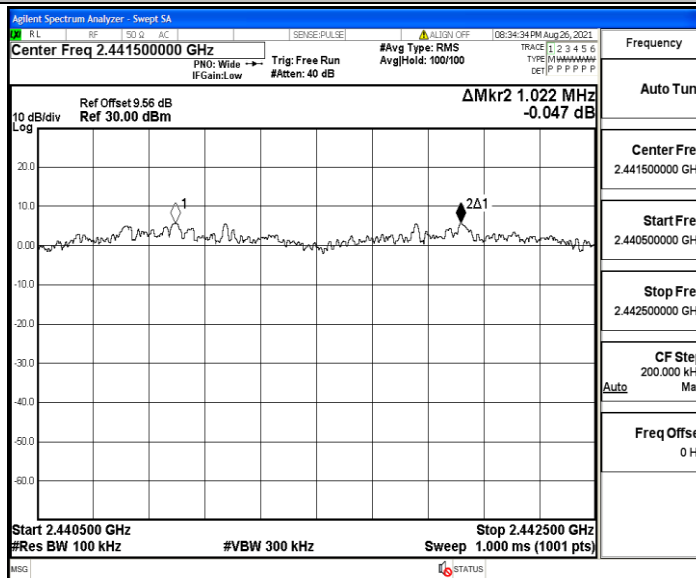
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥0.948	PASS
2DH5	Ant1	Hop	1.022	≥0.890	PASS
3DH5	Ant1	Hop	1	≥0.870	PASS

Test Graphs

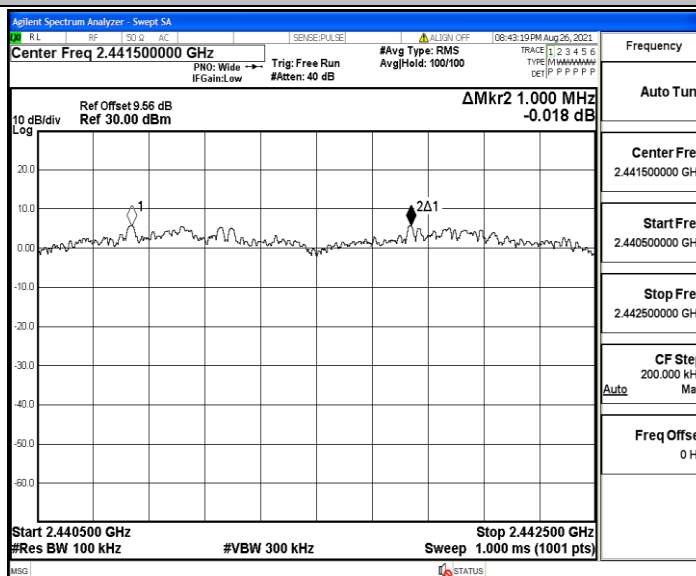
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



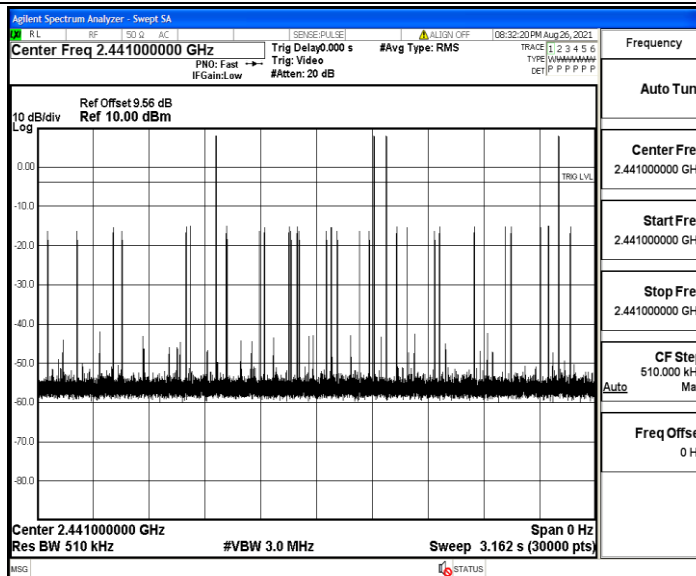
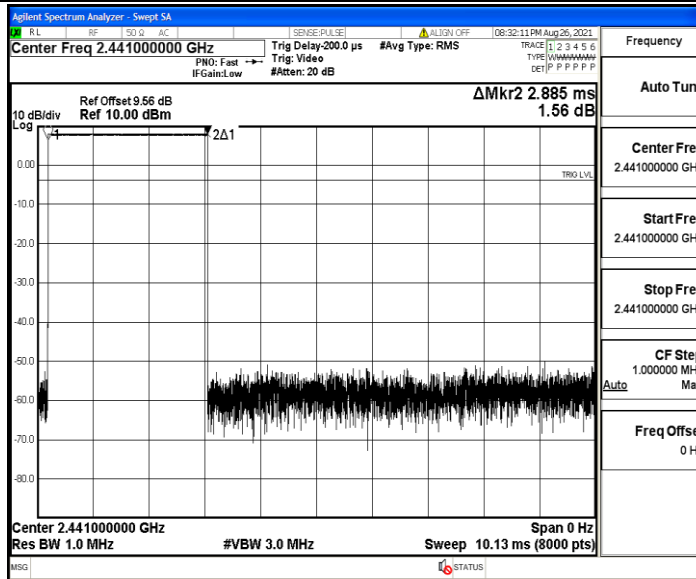
Appendix D: Time of occupancy

Test Result

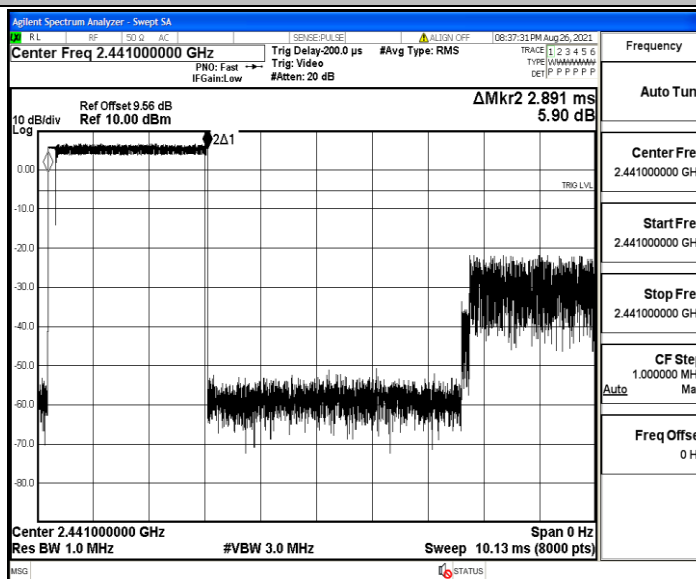
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	50	0.144	≤0.4	PASS
2DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

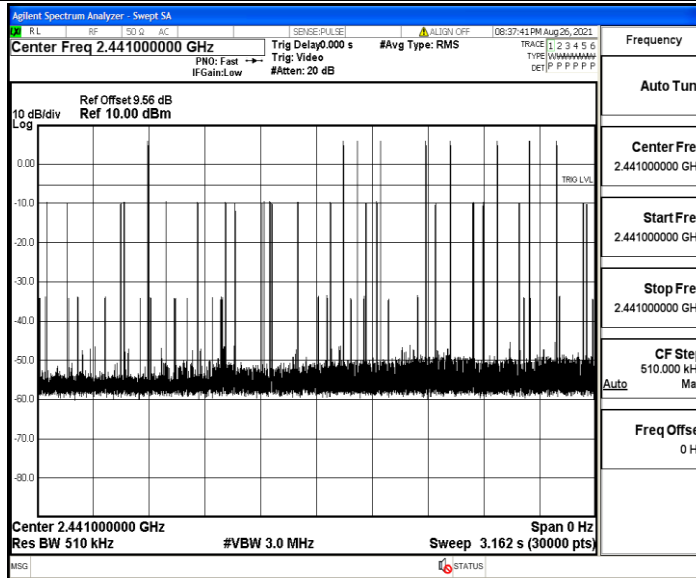
Test Graphs

DH5_Ant1_Hop

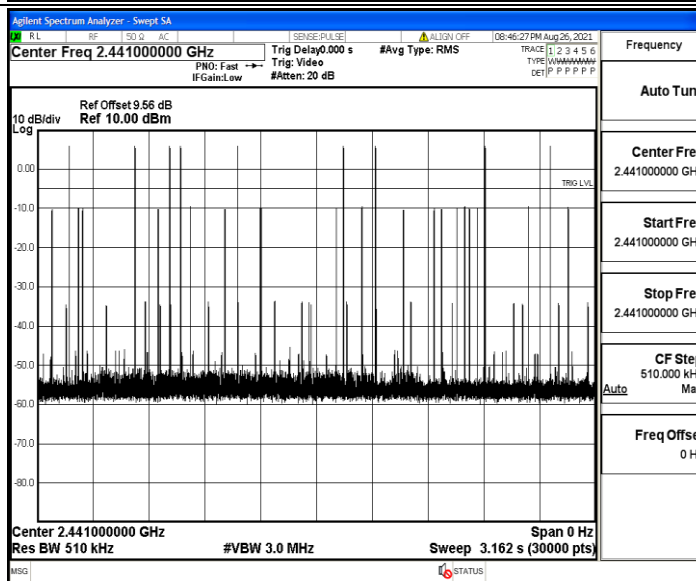
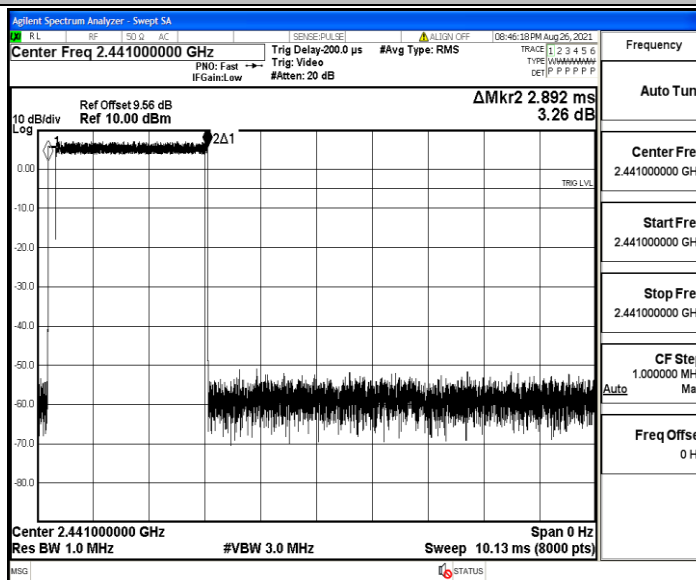


2DH5_Ant1_Hop





3DH5_Ant1_Hop



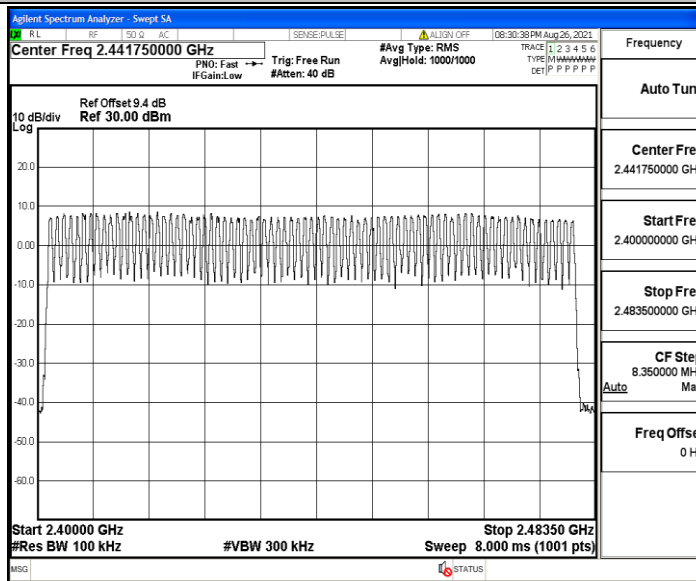
Appendix E: Number of hopping channels

Test Result

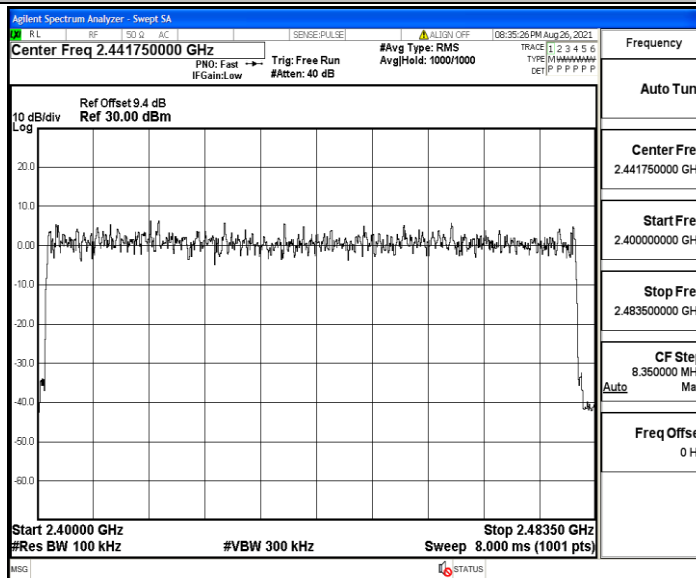
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

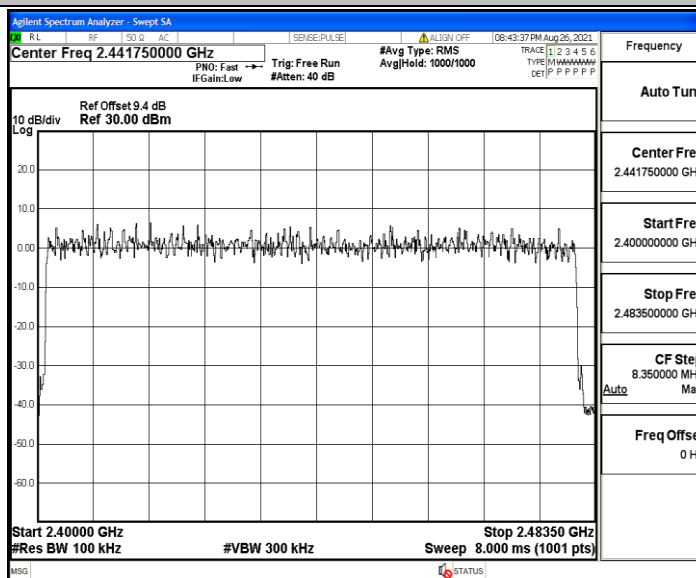
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



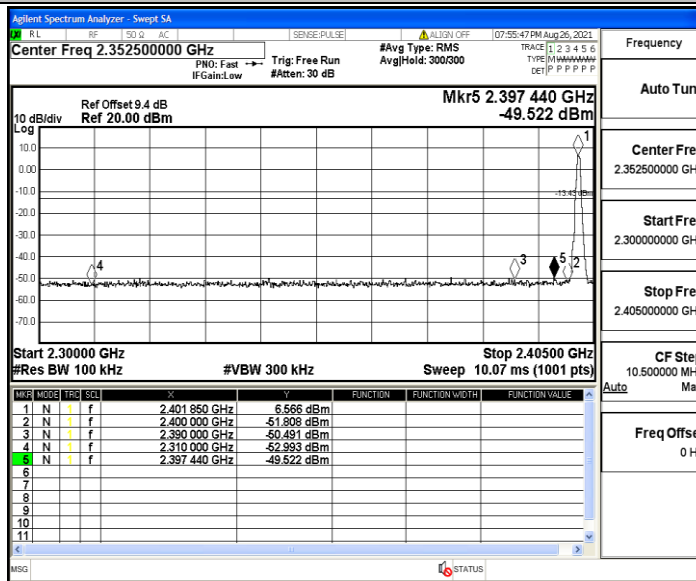
Appendix F: Band edge measurements

Test Result

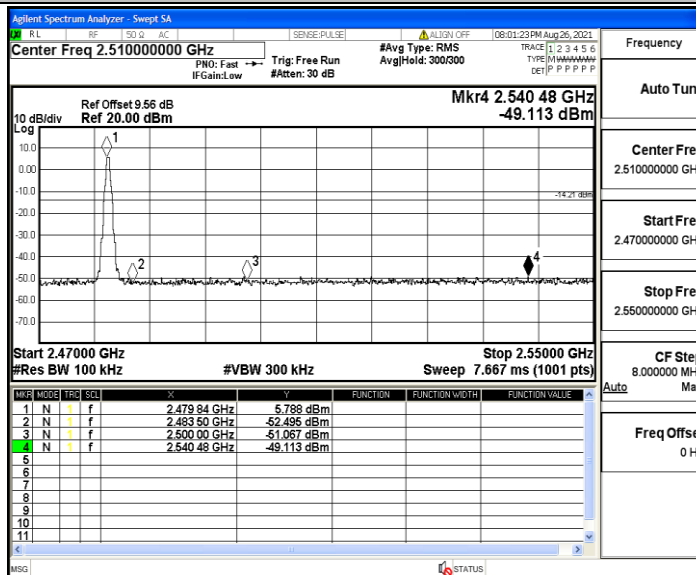
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.57	-49.52	≤ -13.43	PASS
		High	2480	5.79	-49.11	≤ -14.21	PASS
		Low	Hop_2402	7.25	-50.36	≤ -12.76	PASS
		High	Hop_2480	7.10	-48.58	≤ -12.9	PASS
2DH5	Ant1	Low	2402	7.25	-43.61	≤ -12.76	PASS
		High	2480	2.18	-48.7	≤ -17.82	PASS
		Low	Hop_2402	2.52	-49.99	≤ -17.48	PASS
		High	Hop_2480	4.48	-49.01	≤ -15.52	PASS
3DH5	Ant1	Low	2402	2.79	-48.97	≤ -17.21	PASS
		High	2480	1.92	-48.64	≤ -18.08	PASS
		Low	Hop_2402	5.08	-49.56	≤ -14.92	PASS
		High	Hop_2480	4.11	-49.2	≤ -15.89	PASS

Test Graphs

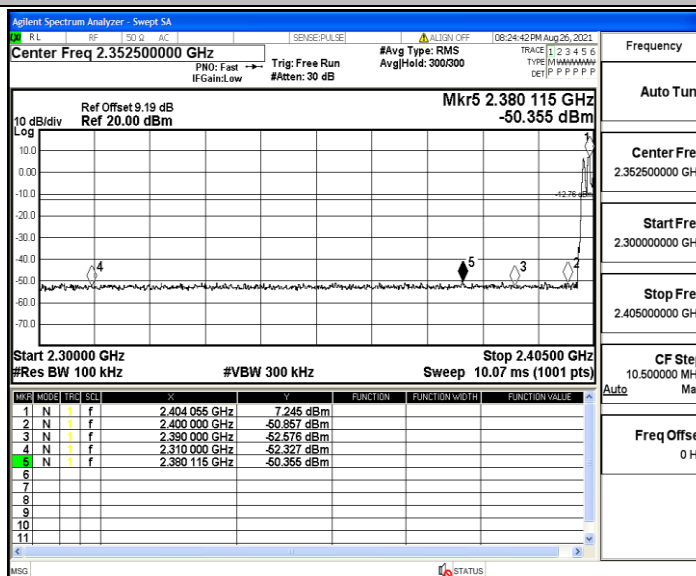
DH5_Ant1_Low_2402



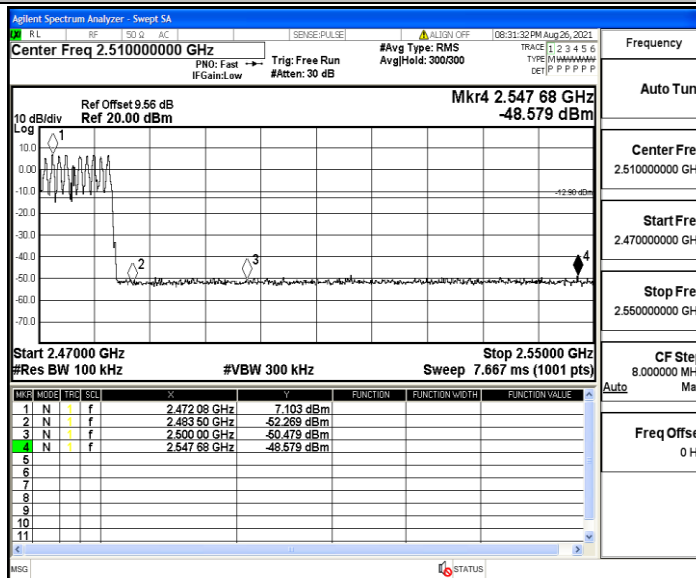
DH5_Ant1_High_2480



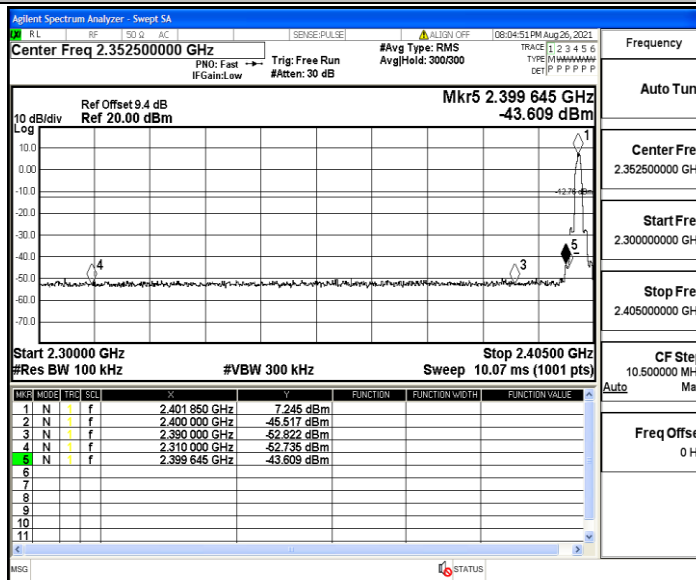
DH5_Ant1_Low_Hop_2402



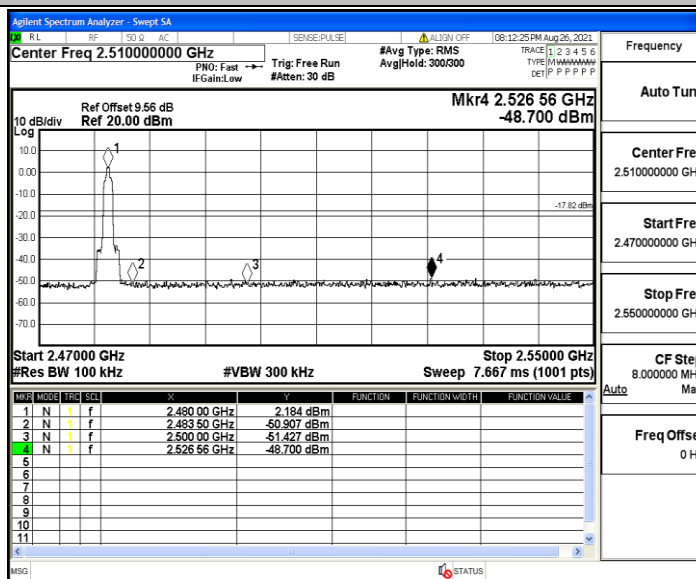
DH5_Ant1_High_Hop_2480



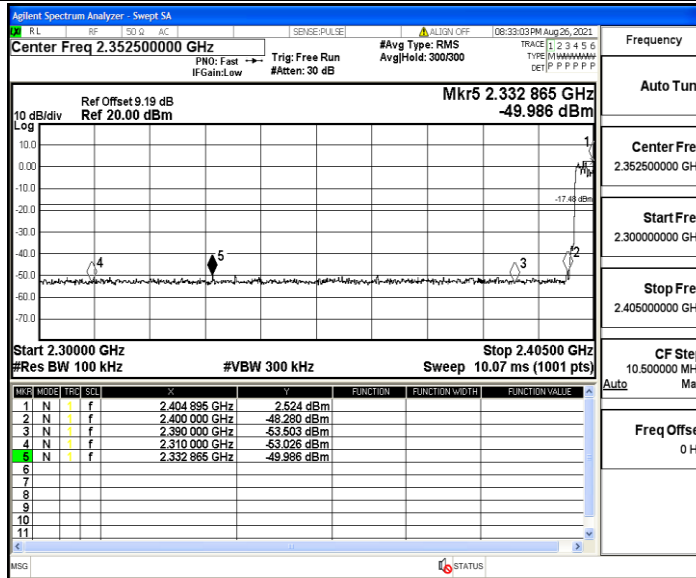
2DH5_Ant1_Low_2402



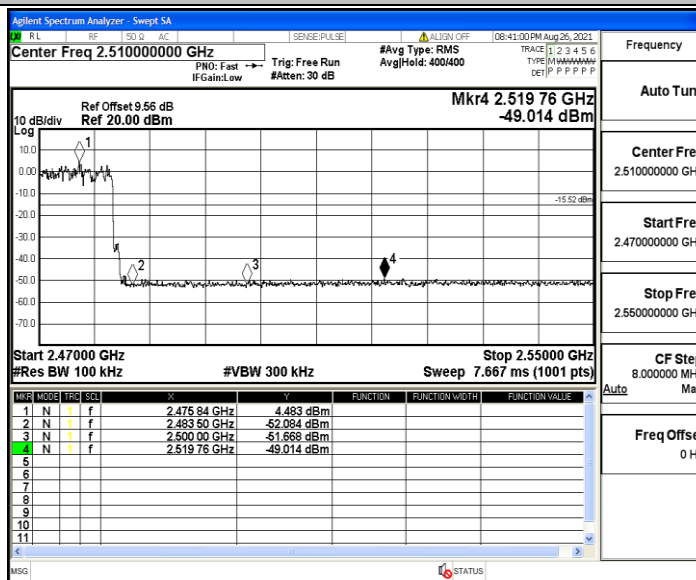
2DH5_Ant1_High_2480



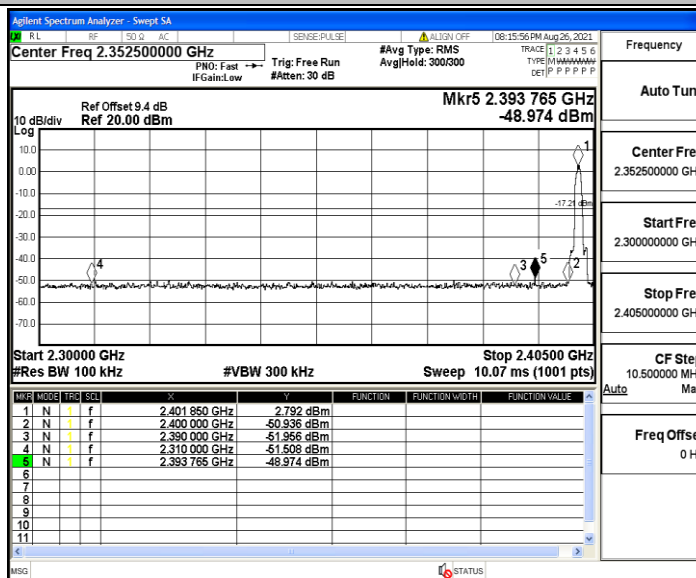
2DH5_Ant1_Low_Hop_2402



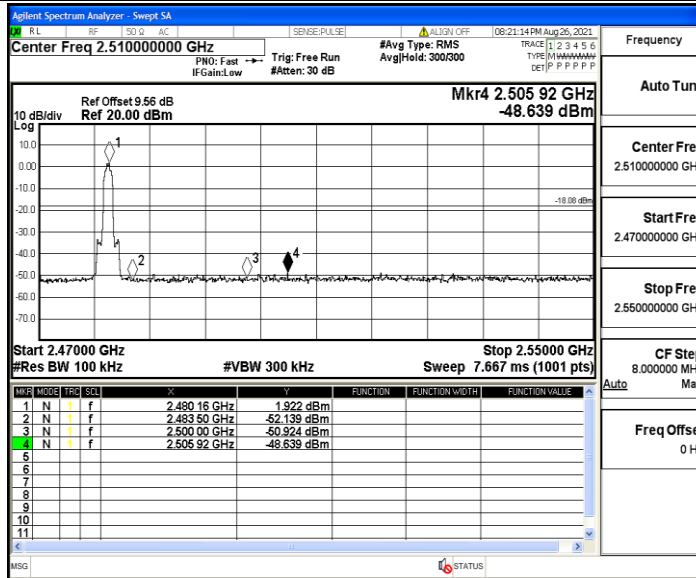
2DH5_Ant1_High_Hop_2480



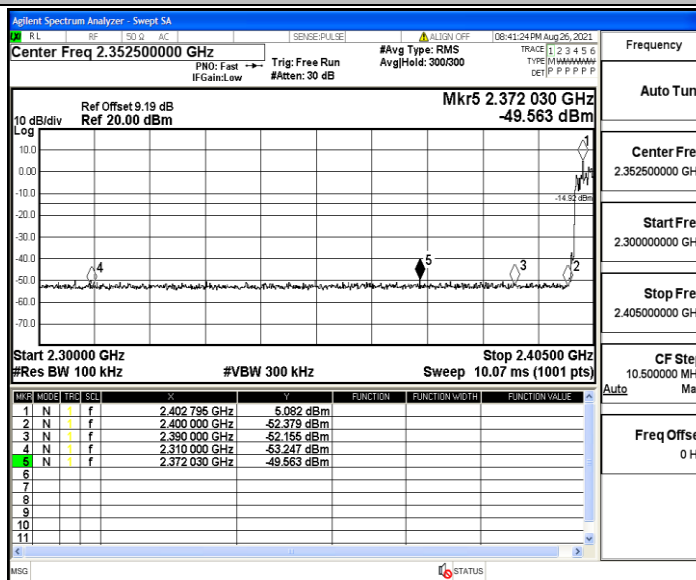
3DH5_Ant1_Low_2402



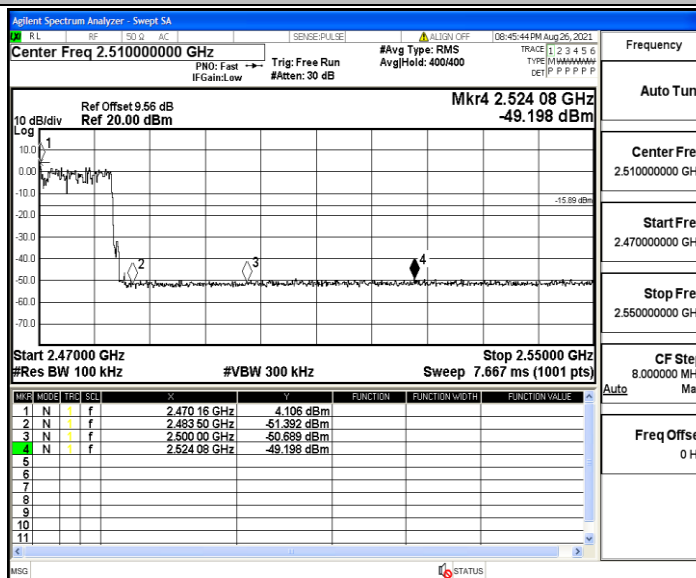
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



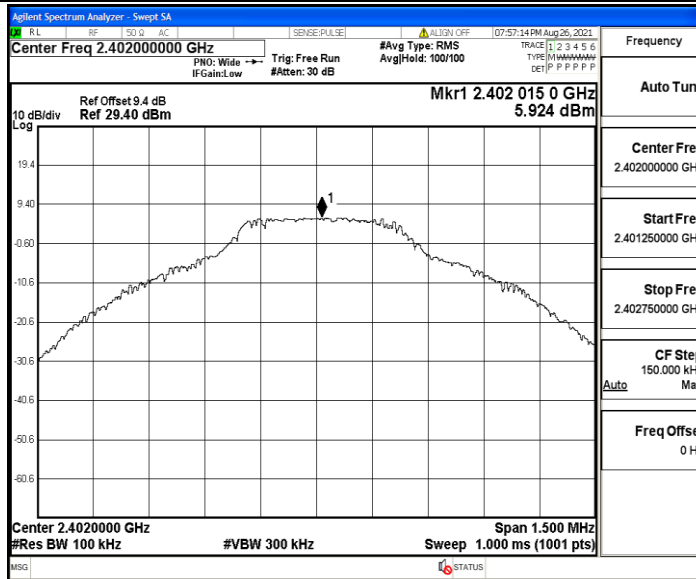
Appendix G: Conducted Spurious Emission

Test Result

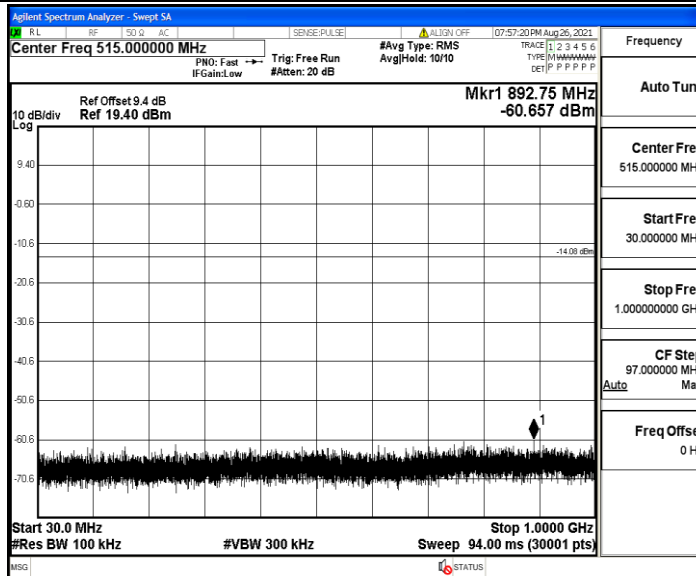
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.92	5.92	---	PASS
			30~1000	5.92	-60.66	≤-14.08	PASS
			1000~26500	5.92	-46.51	≤-14.08	PASS
		2441	Reference	6.53	6.53	---	PASS
			30~1000	6.53	-60.78	≤-13.47	PASS
			1000~26500	6.53	-43.75	≤-13.47	PASS
		2480	Reference	5.23	5.23	---	PASS
			30~1000	5.23	-61.55	≤-14.77	PASS
			1000~26500	5.23	-46.19	≤-14.77	PASS
2DH5	Ant1	2402	Reference	6.89	6.89	---	PASS
			30~1000	6.89	-60.8	≤-13.11	PASS
			1000~26500	6.89	-48.57	≤-13.11	PASS
		2441	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-60.8	≤-17.08	PASS
			1000~26500	2.92	-51.77	≤-17.08	PASS
		2480	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-61.35	≤-17.89	PASS
			1000~26500	2.11	-51.7	≤-17.89	PASS
3DH5	Ant1	2402	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-60.37	≤-17.42	PASS
			1000~26500	2.58	-51.75	≤-17.42	PASS
		2441	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-61.36	≤-17.26	PASS
			1000~26500	2.74	-49.06	≤-17.26	PASS
		2480	Reference	2.10	2.10	---	PASS
			30~1000	2.10	-60.87	≤-17.9	PASS
			1000~26500	2.10	-49.86	≤-17.9	PASS

Test Graphs

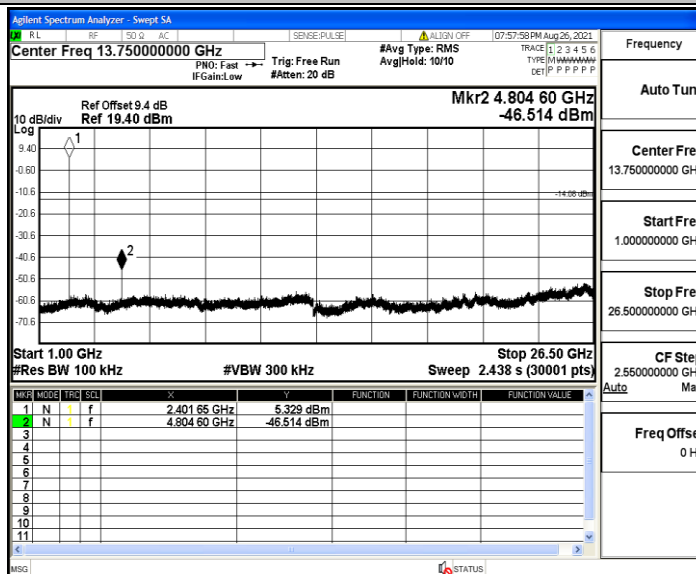
DH5_Ant1_2402_0~Reference



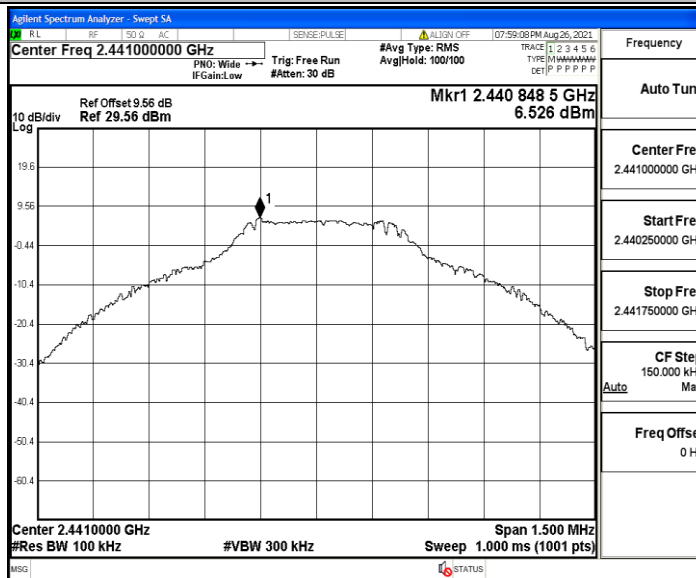
DH5_Ant1_2402_30~1000



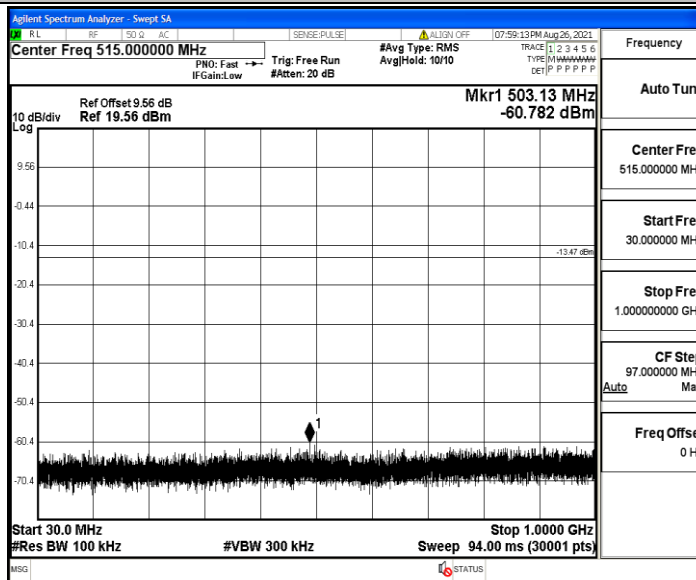
DH5_Ant1_2402_1000~26500



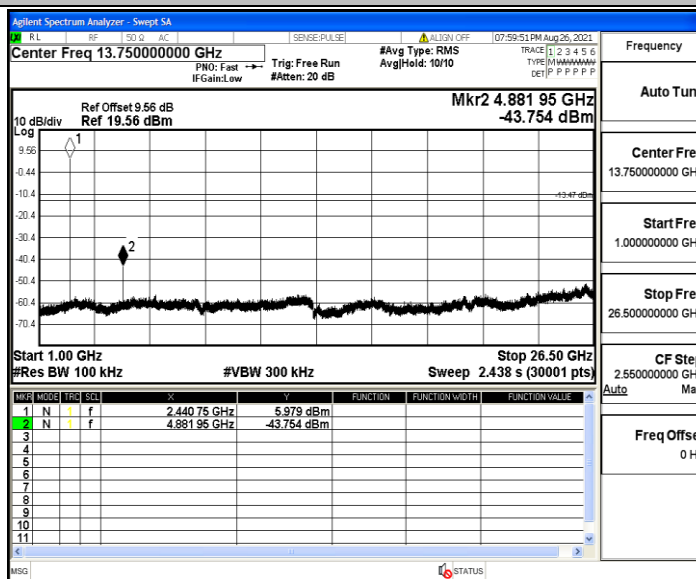
DH5_Ant1_2441_0~Reference



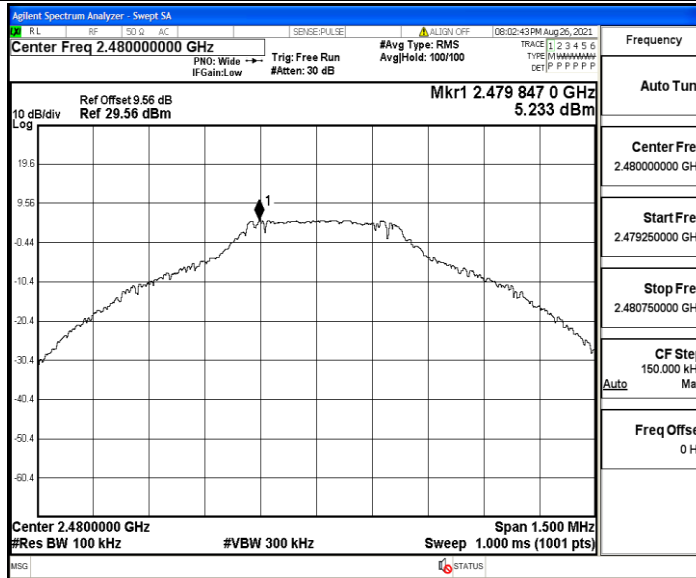
DH5_Ant1_2441_30~1000



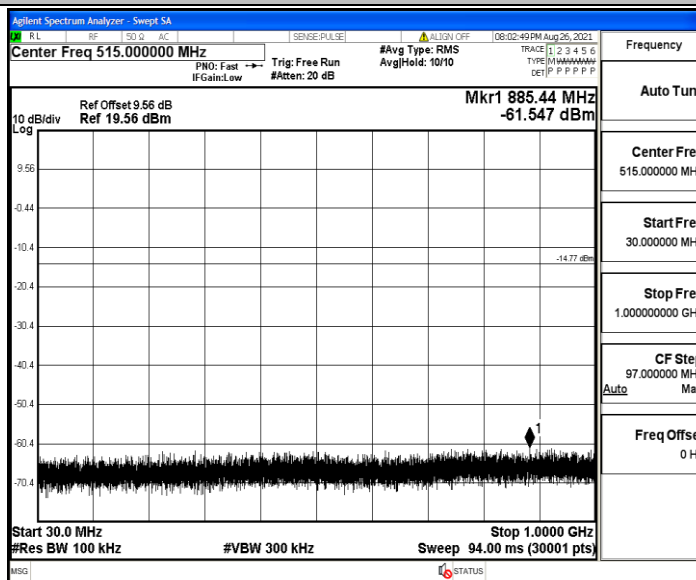
DH5_Ant1_2441_1000~26500



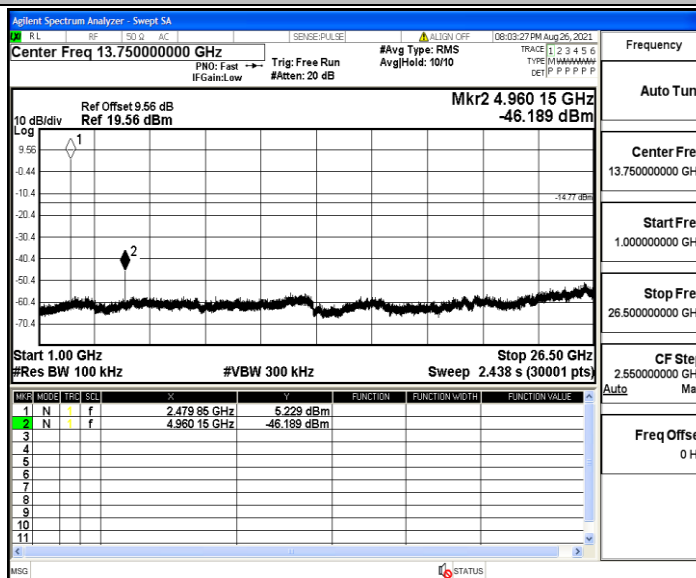
DH5_Ant1_2480_0~Reference



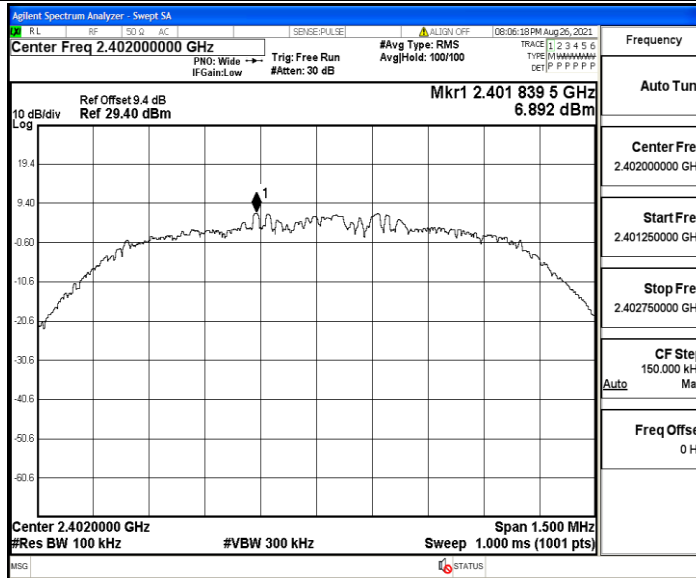
DH5_Ant1_2480_30~1000



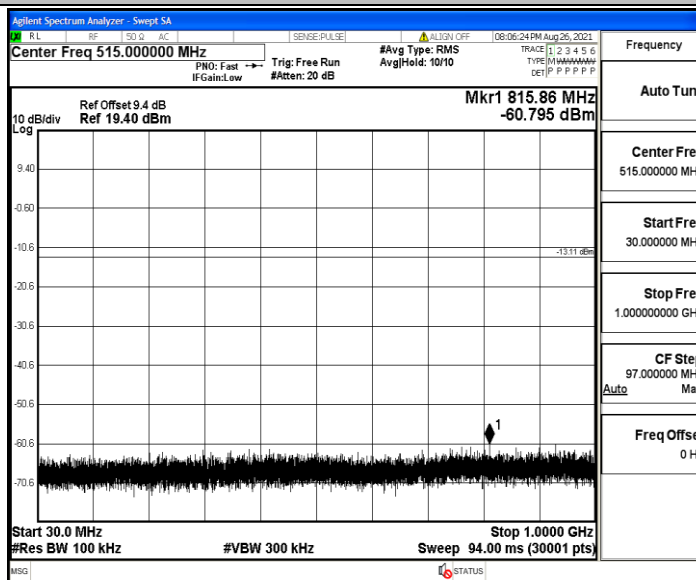
DH5_Ant1_2480_1000~26500



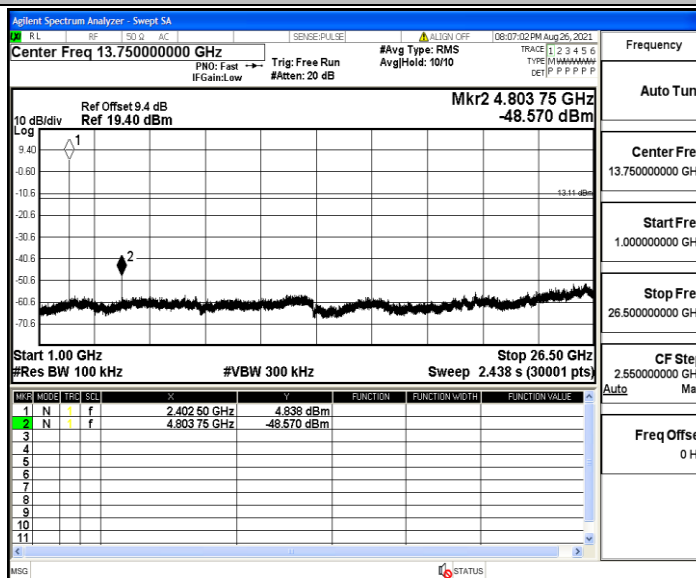
2DH5_Ant1_2402_0~Reference



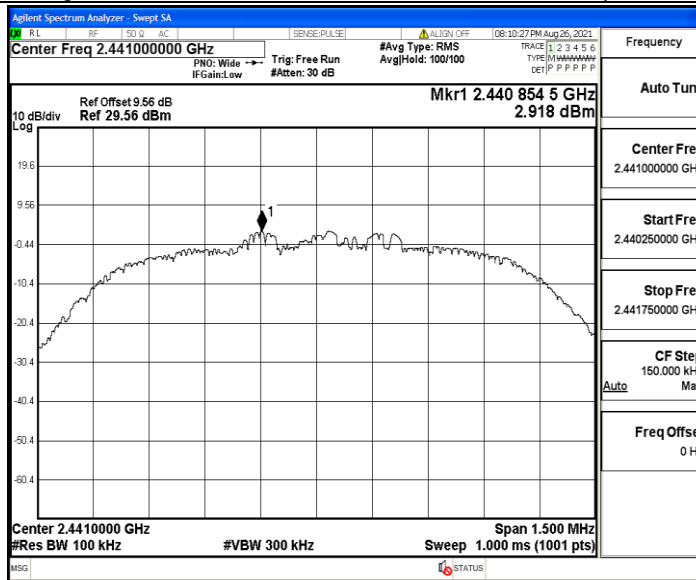
2DH5_Ant1_2402_30~1000



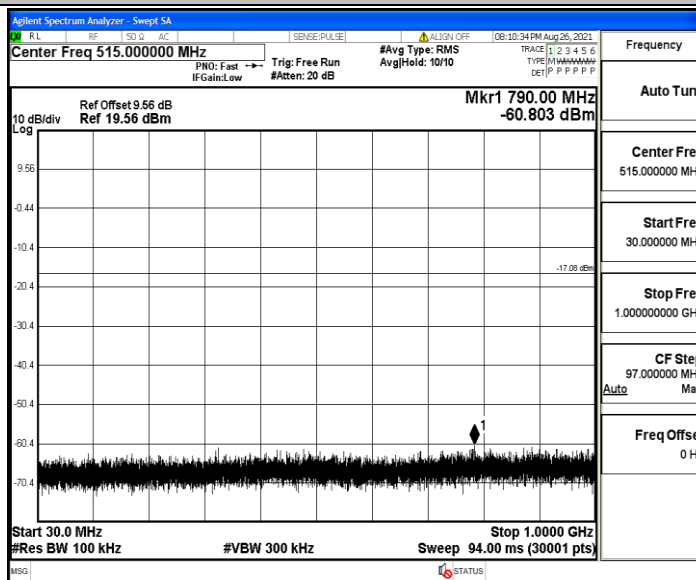
2DH5_Ant1_2402_1000~26500



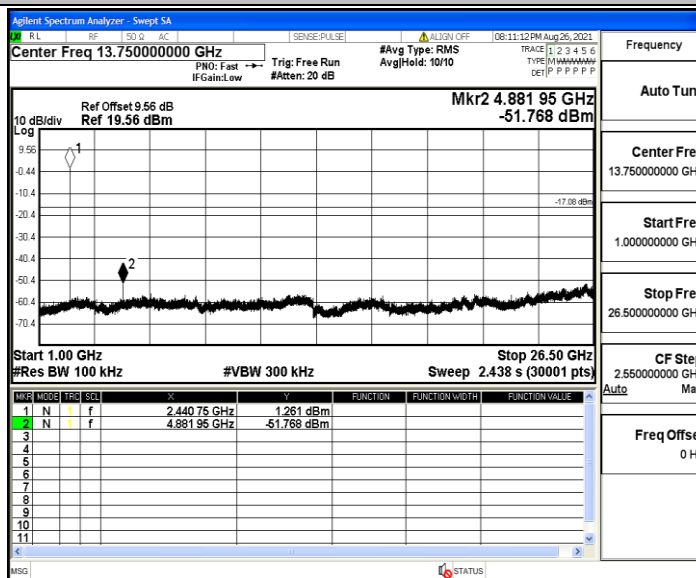
2DH5_Ant1_2441_0~Reference



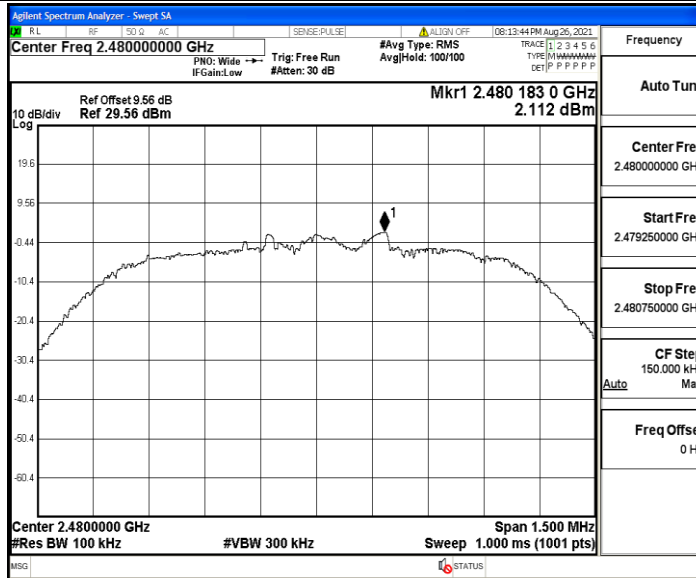
2DH5_Ant1_2441_30~1000



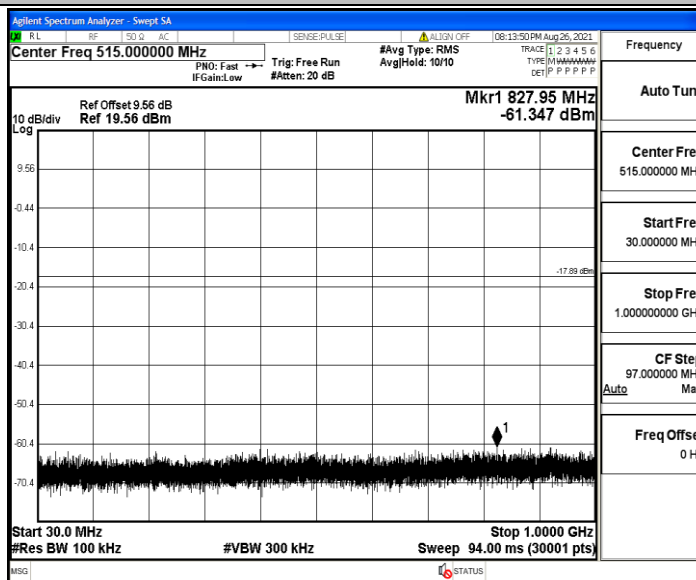
2DH5_Ant1_2441_1000~26500



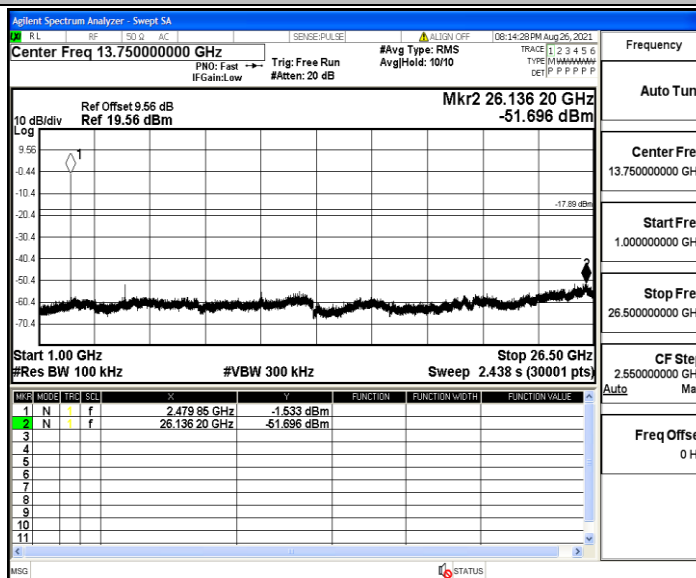
2DH5_Ant1_2480_0~Reference



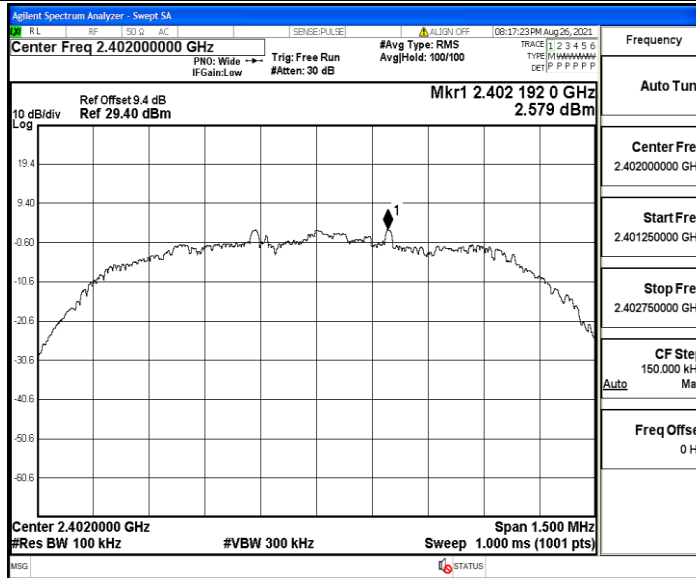
2DH5_Ant1_2480_30~1000



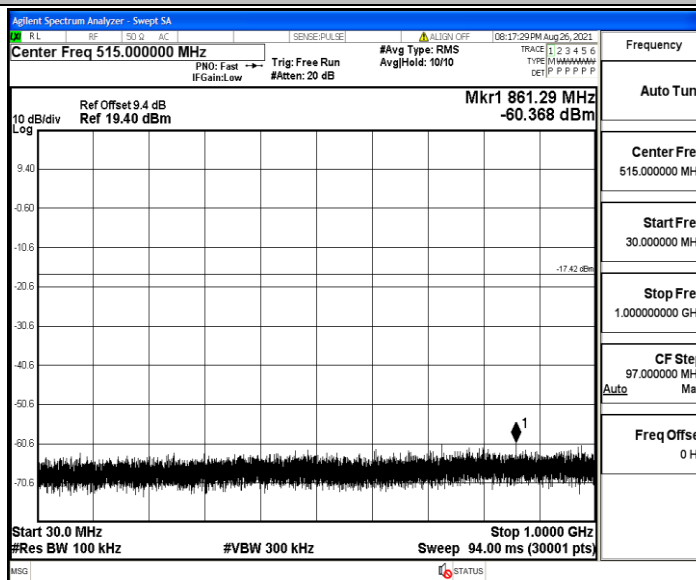
2DH5_Ant1_2480_1000~26500



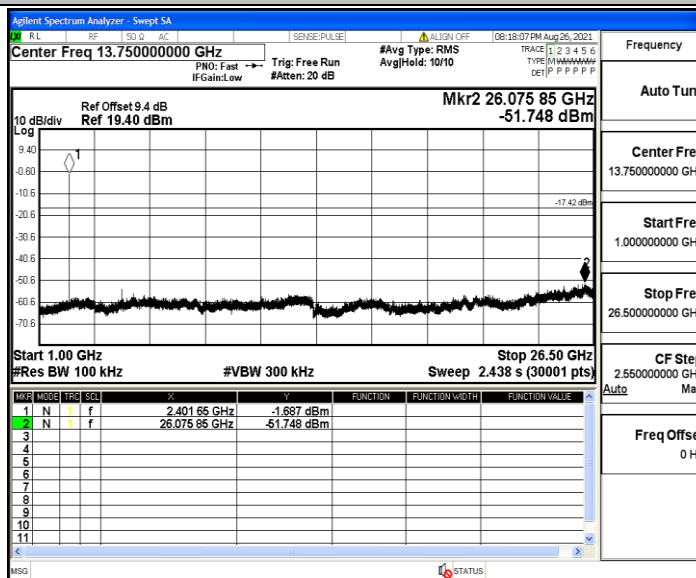
3DH5_Ant1_2402_0~Reference



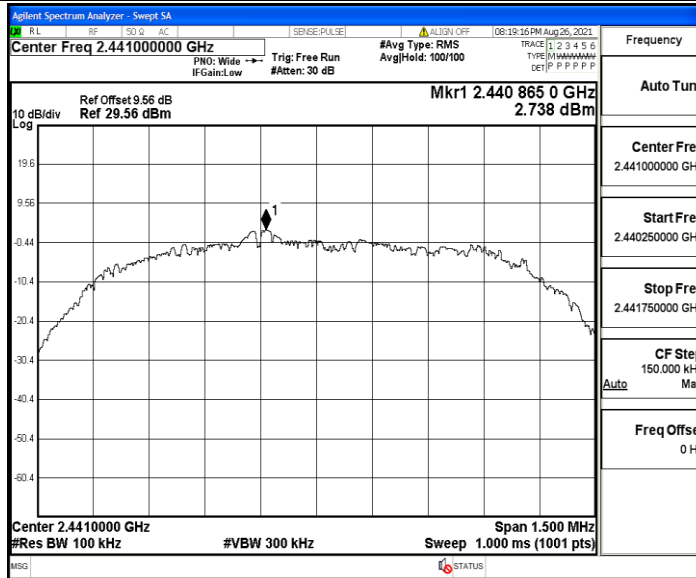
3DH5_Ant1_2402_30~1000



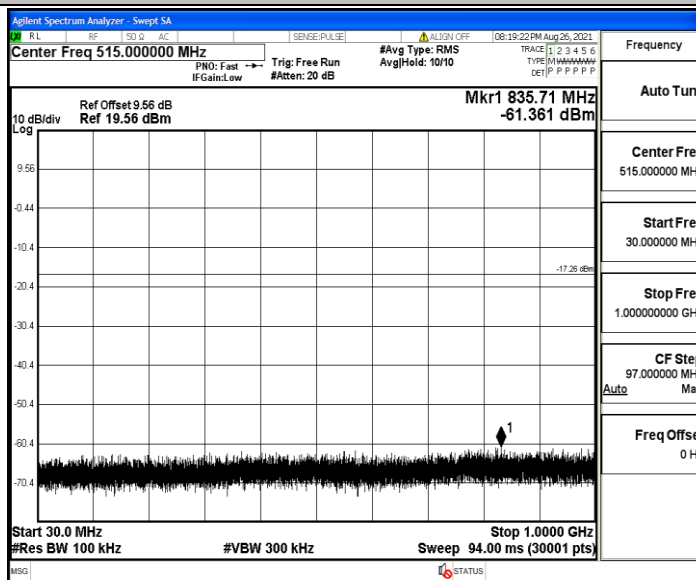
3DH5_Ant1_2402_1000~26500



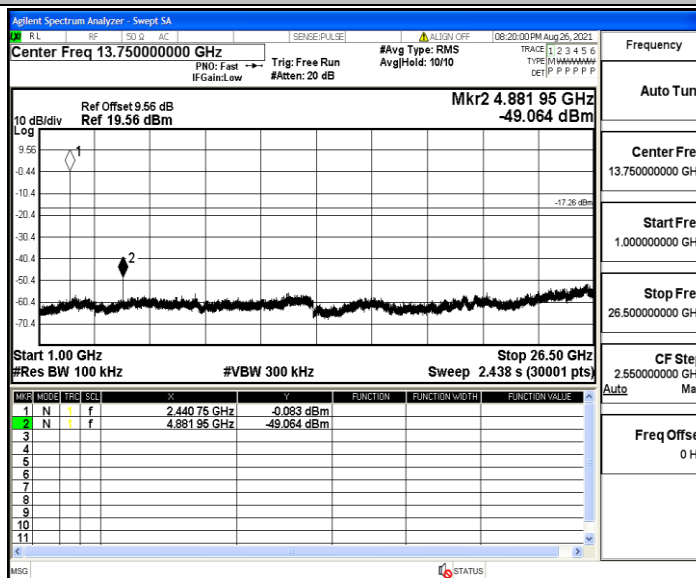
3DH5 Ant1 2441 0~Reference



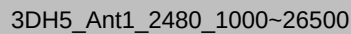
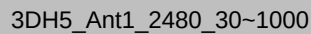
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.01	≤-41.20	PASS
				AV	2385.785	-48.55	≤-41.20	PASS
				AV	2390.000	-48.74	≤-41.20	PASS
				Peak	2310.000	-40.57	≤-21.20	PASS
				Peak	2344.625	-37.68	≤-21.20	PASS
				Peak	2390.000	-41.94	≤-21.20	PASS
		High	2480	AV	2483.500	-47.07	≤-41.20	PASS
				AV	2483.520	-47.06	≤-41.20	PASS
				AV	2500.000	-47.98	≤-41.20	PASS
				Peak	2483.500	-40.73	≤-21.20	PASS
				Peak	2489.040	-38.37	≤-21.20	PASS
				Peak	2500.000	-39.92	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.06	≤-41.20	PASS
				AV	2380.220	-48.57	≤-41.20	PASS
				AV	2390.000	-48.69	≤-41.20	PASS
				Peak	2310.000	-40.94	≤-21.20	PASS
				Peak	2334.440	-39.19	≤-21.20	PASS
				Peak	2390.000	-40.92	≤-21.20	PASS
		High	2480	AV	2483.500	-47.39	≤-41.20	PASS
				AV	2483.520	-47.39	≤-41.20	PASS
				AV	2500.000	-48.06	≤-41.20	PASS
				Peak	2483.500	-40.93	≤-21.20	PASS
				Peak	2487.760	-38.3	≤-21.20	PASS
				Peak	2500.000	-39.81	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.1	≤-41.20	PASS
				AV	2385.680	-48.59	≤-41.20	PASS
				AV	2390.000	-48.81	≤-41.20	PASS
				Peak	2310.000	-41.9	≤-21.20	PASS
				Peak	2325.935	-39.33	≤-21.20	PASS
				Peak	2390.000	-41.79	≤-21.20	PASS
		High	2480	AV	2483.500	-47.44	≤-41.20	PASS
				AV	2483.520	-47.44	≤-41.20	PASS
				AV	2500.000	-48.07	≤-41.20	PASS
				Peak	2483.500	-42.44	≤-21.20	PASS
				Peak	2493.520	-38.71	≤-21.20	PASS
				Peak	2500.000	-40.59	≤-21.20	PASS

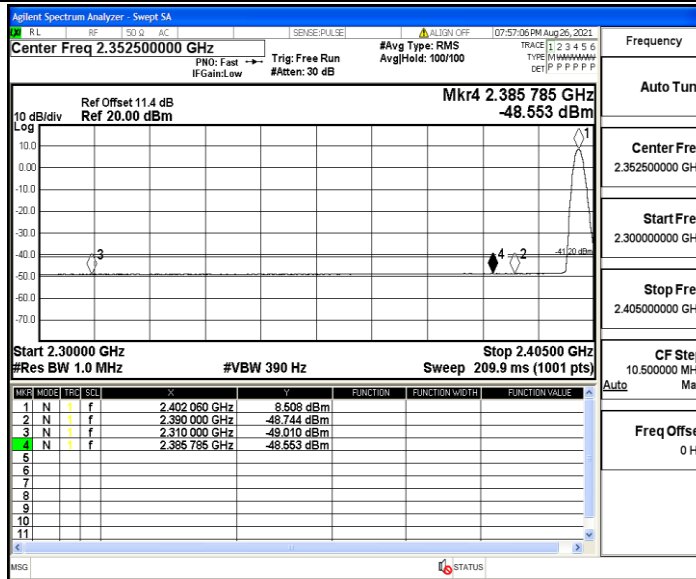
Note:

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in

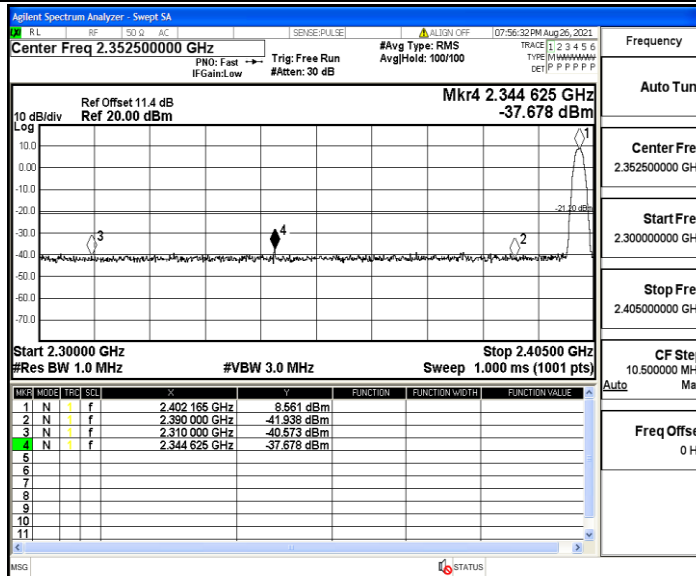
dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

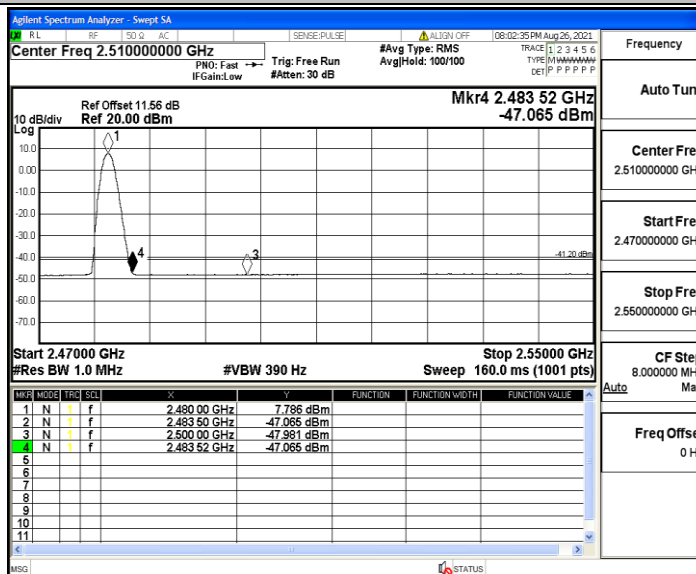
DH5_Ant1_Low_2402_AV



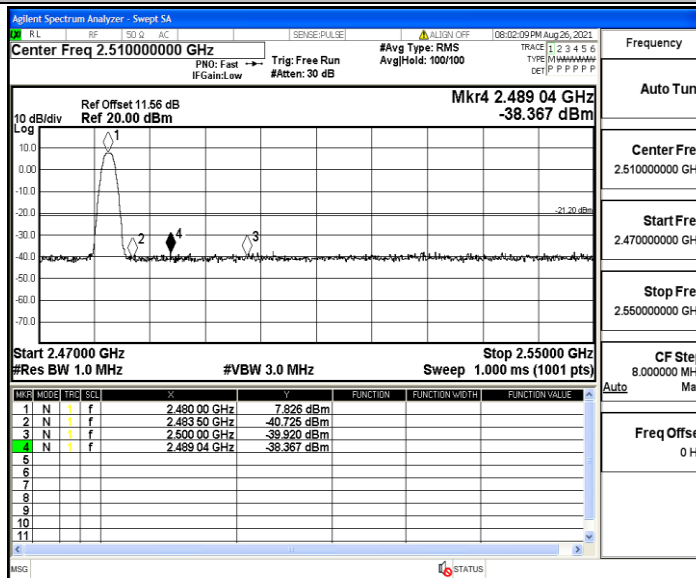
DH5_Ant1_Low_2402_Peak



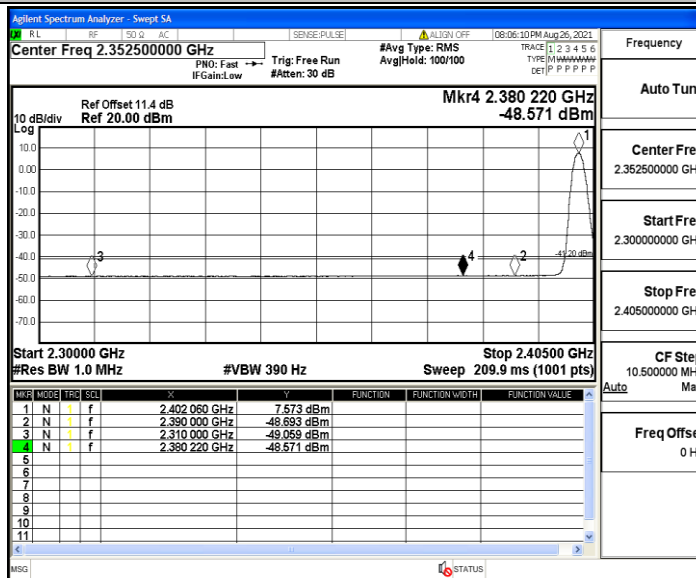
DH5_Ant1_High_2480_AV



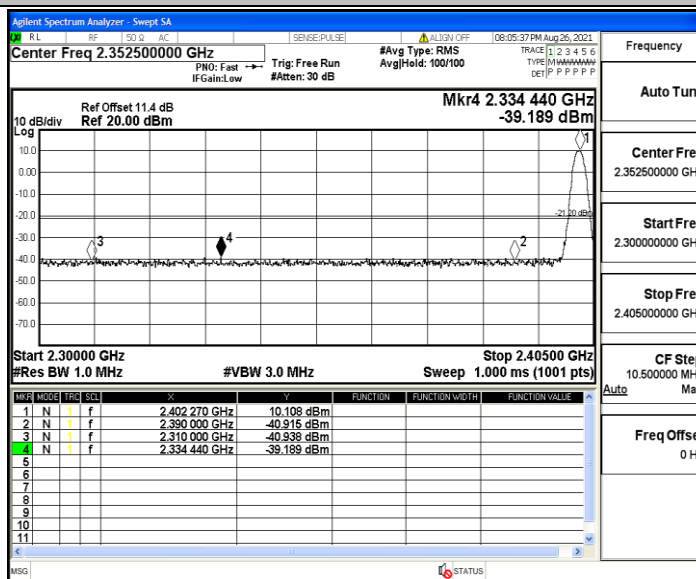
DH5_Ant1_High_2480_Peak



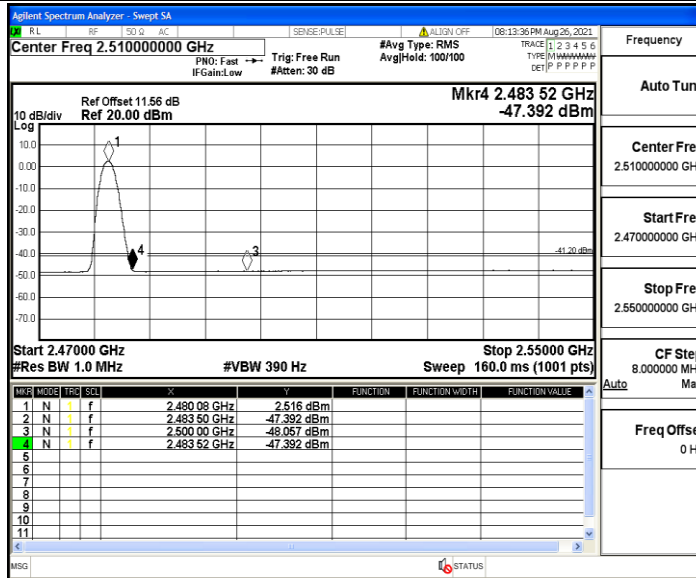
2DH5_Ant1_Low_2402_AV



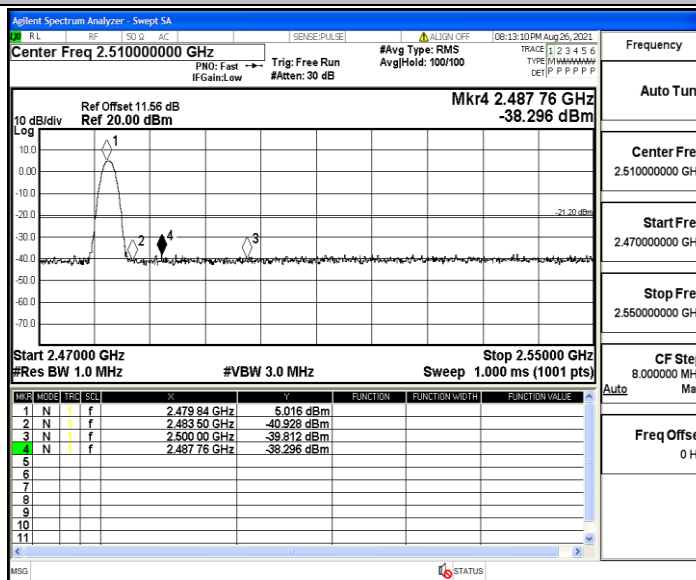
2DH5_Ant1_Low_2402_Peak



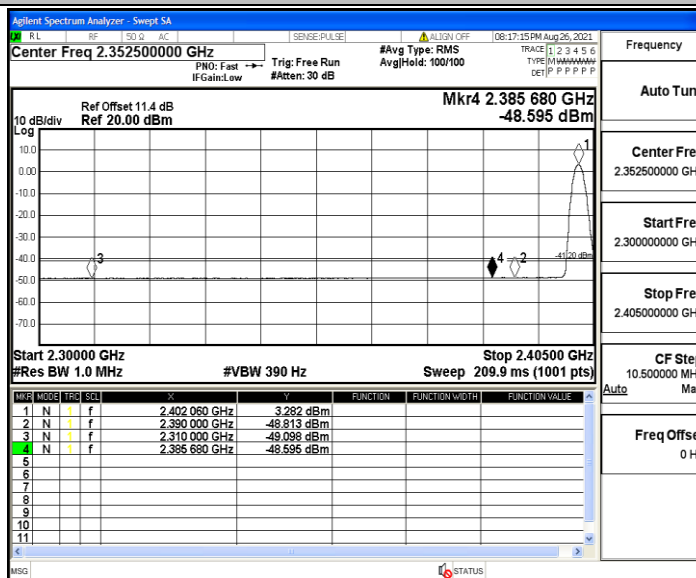
2DH5_Ant1_High_2480_AV



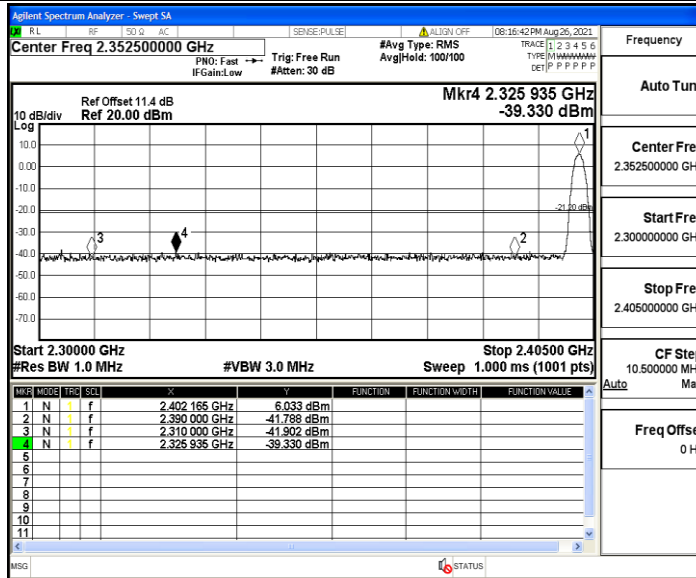
2DH5_Ant1_High_2480_Peak



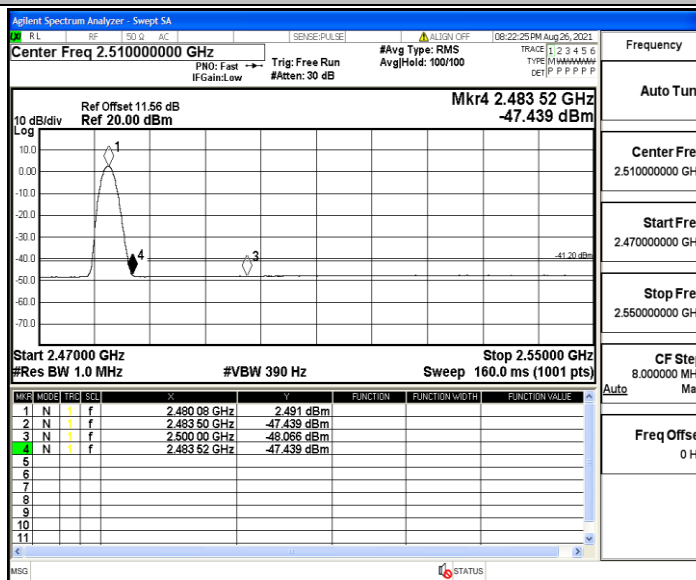
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

