

Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: yellow boombox

Trade Mark: N/A

Test Model: UO-BTBB-YEL

FCC ID: 2AQ4QUO-BTBB-YEL

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

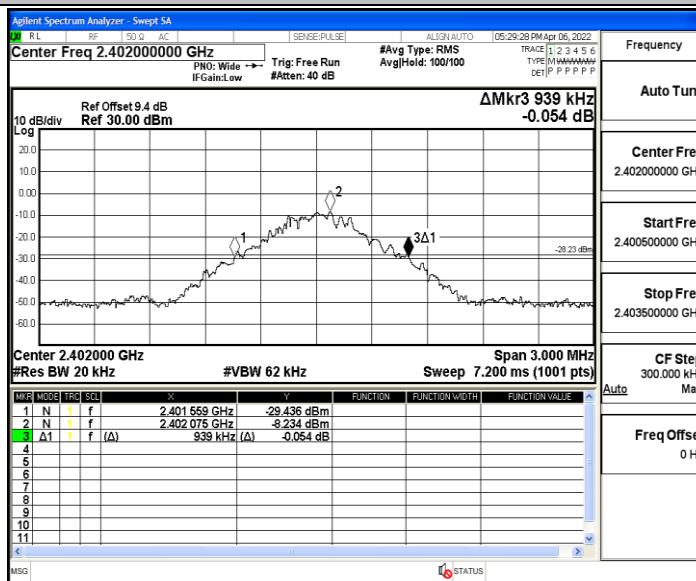
Appendix A: 20dB Emission Bandwidth

Test Result

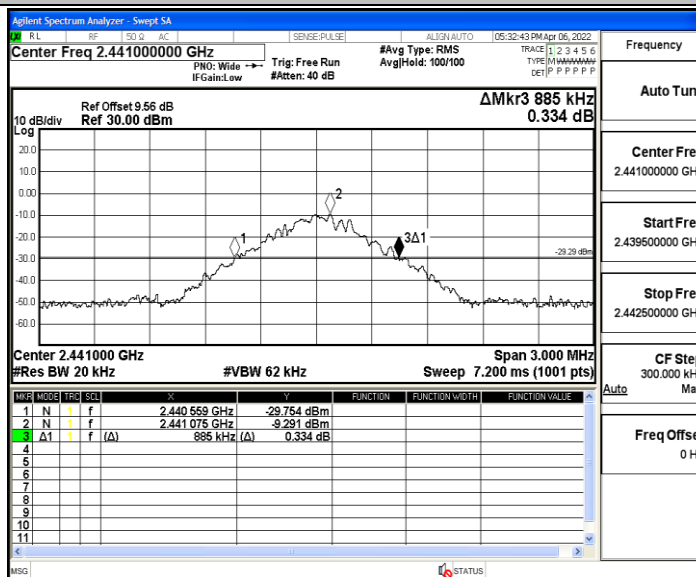
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.559	2402.498	---	---
		2441	0.885	2440.559	2441.444	---	---
		2480	0.888	2479.559	2480.447	---	---
2DH5	Ant1	2402	1.266	2401.382	2402.648	---	---
		2441	1.323	2440.352	2441.675	---	---
		2480	1.320	2479.355	2480.675	---	---
3DH5	Ant1	2402	1.299	2401.361	2402.660	---	---
		2441	1.284	2440.373	2441.657	---	---
		2480	1.275	2479.376	2480.651	---	---

Test Graphs

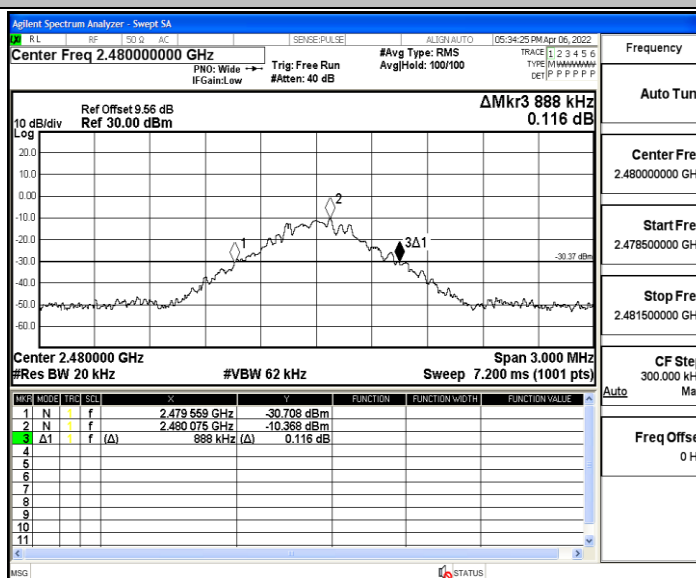
DH5_Ant1_2402



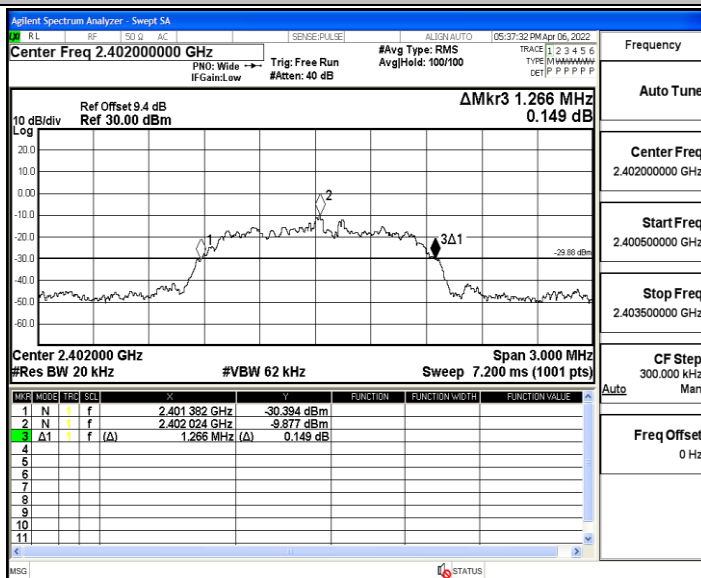
DH5_Ant1_2441



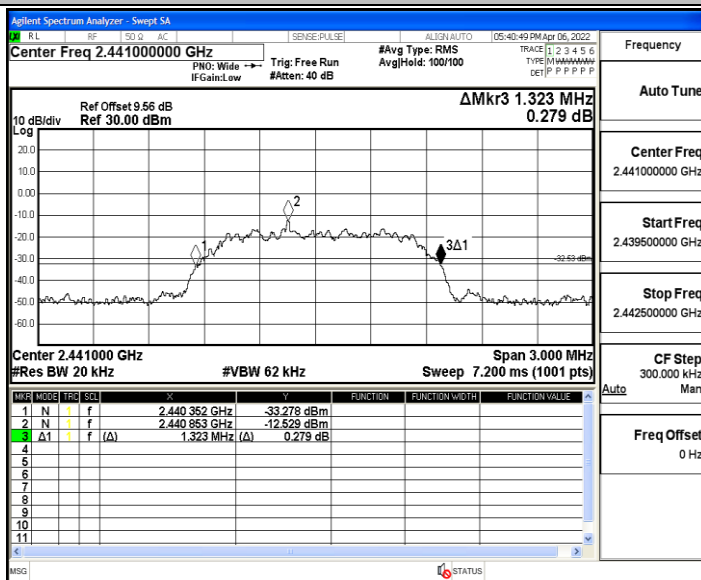
DH5_Ant1_2480



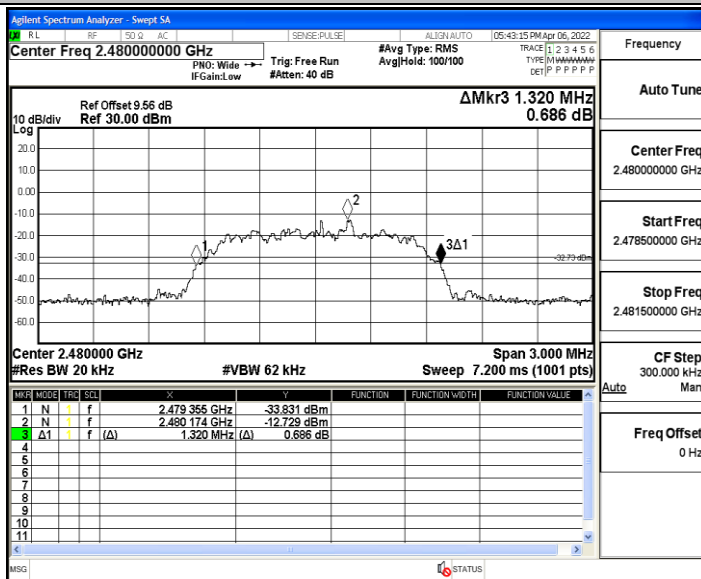
2DH5_Ant1_2402



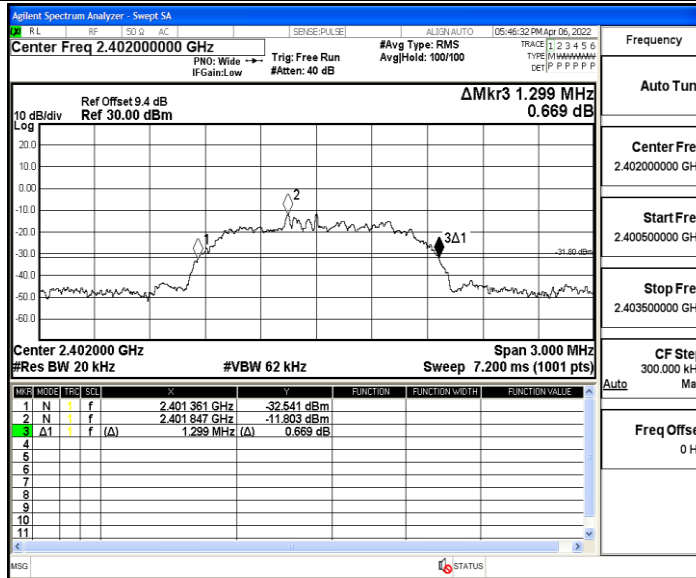
2DH5_Ant1_2441



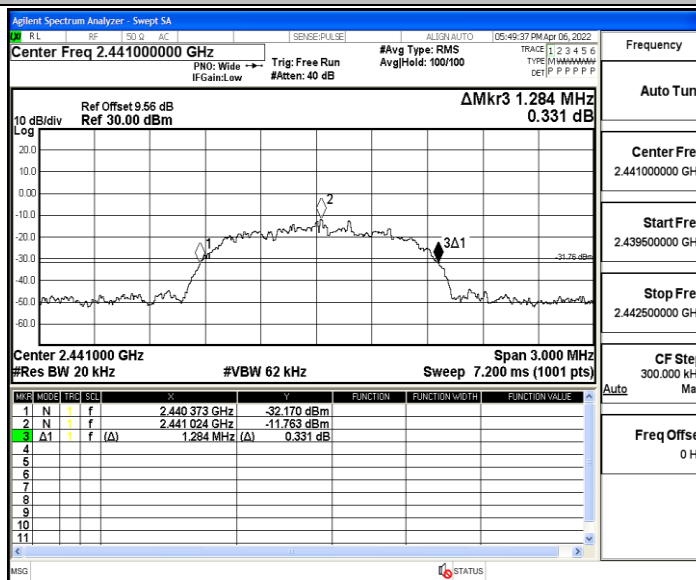
2DH5_Ant1_2480



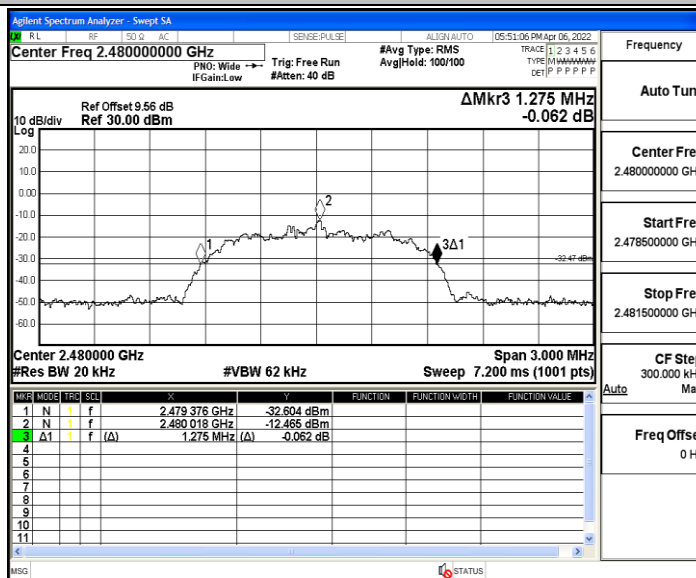
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



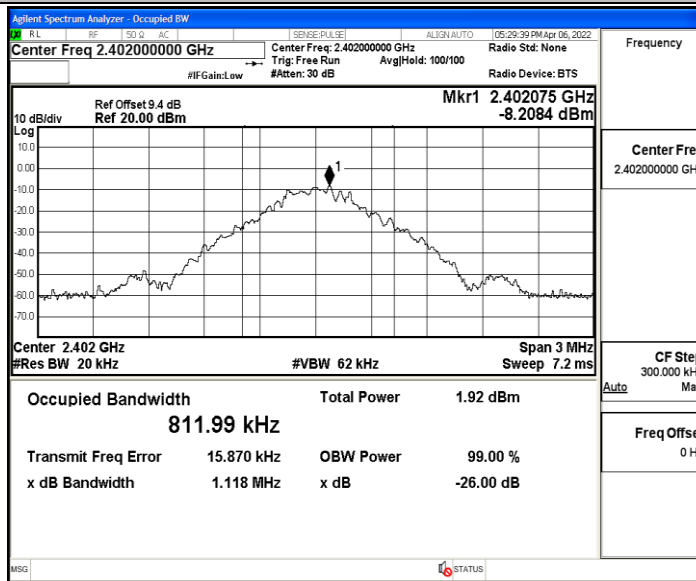
Appendix B: Occupied Channel Bandwidth

Test Result

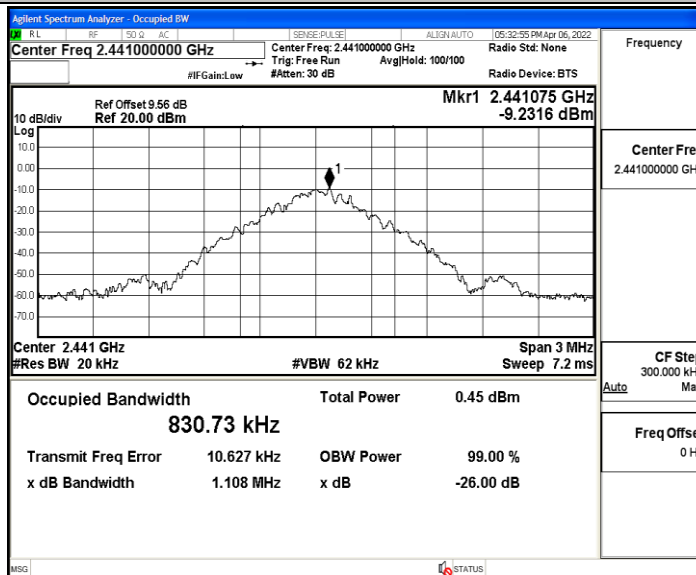
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.81199	2401.610	2402.422	---	---
		2441	0.83073	2440.595	2441.426	---	---
		2480	0.81717	2479.602	2480.419	---	---
2DH5	Ant1	2402	1.1835	2401.424	2402.607	---	---
		2441	1.1761	2440.426	2441.602	---	---
		2480	1.1663	2479.429	2480.596	---	---
3DH5	Ant1	2402	1.1702	2401.426	2402.596	---	---
		2441	1.1734	2440.426	2441.599	---	---
		2480	1.1780	2479.426	2480.604	---	---

Test Graphs

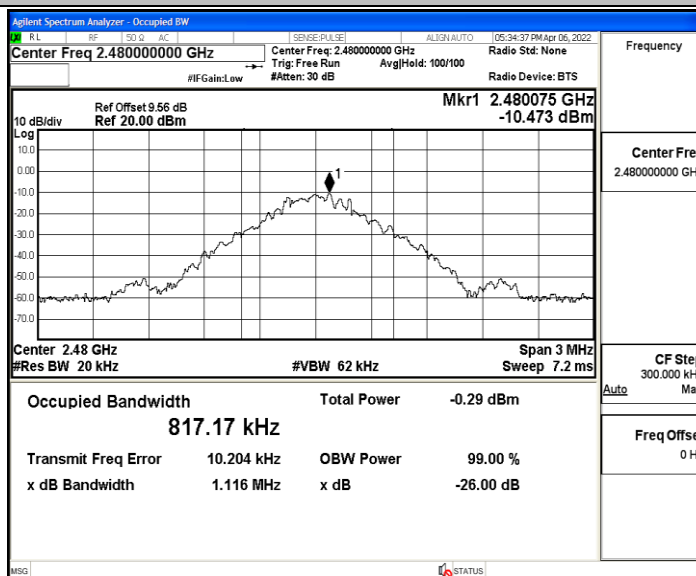
DH5_Ant1_2402



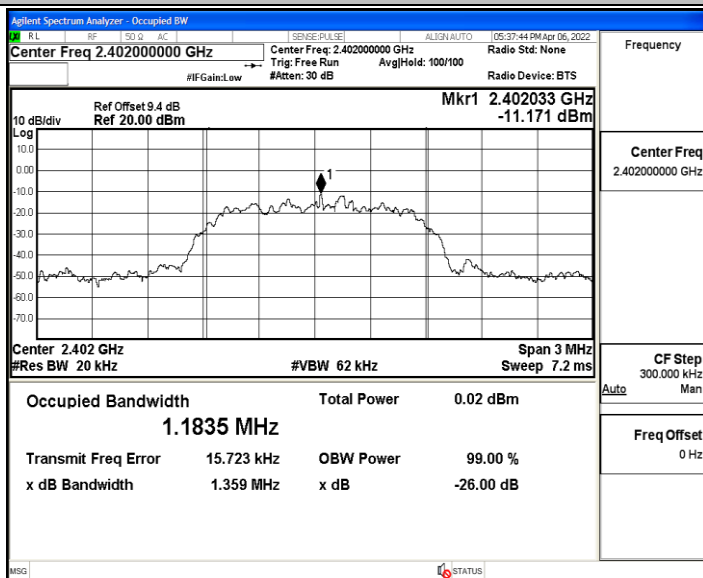
DH5_Ant1_2441



DH5_Ant1_2480



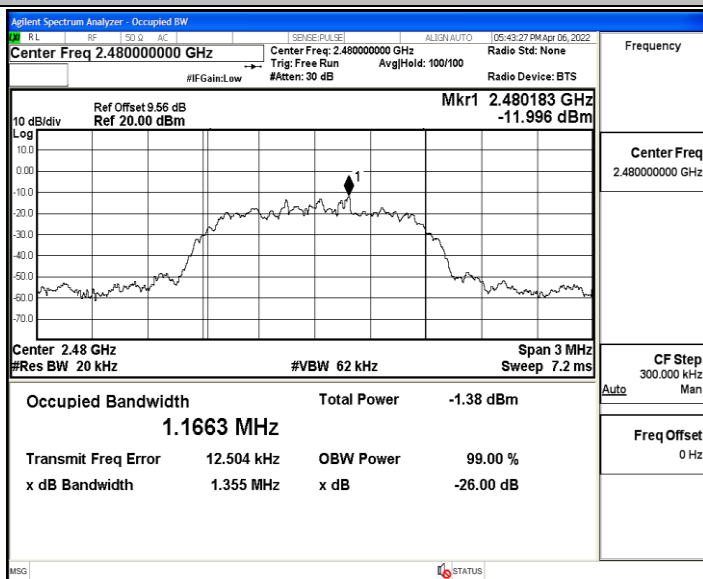
2DH5_Ant1_2402



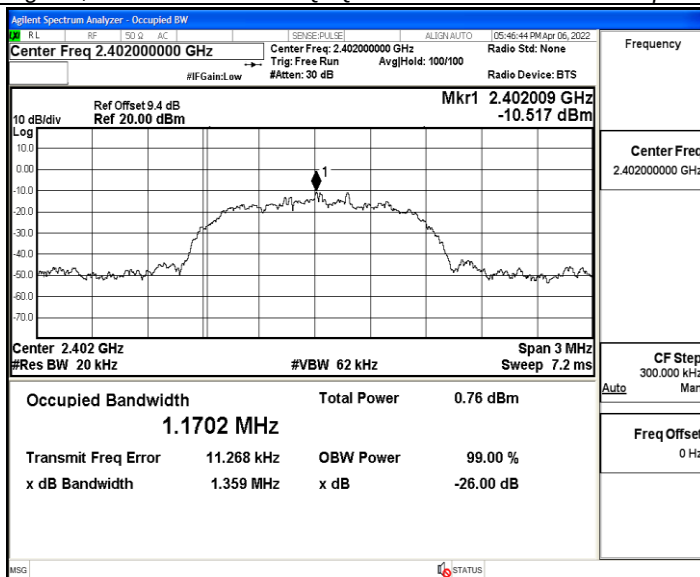
2DH5_Ant1_2441



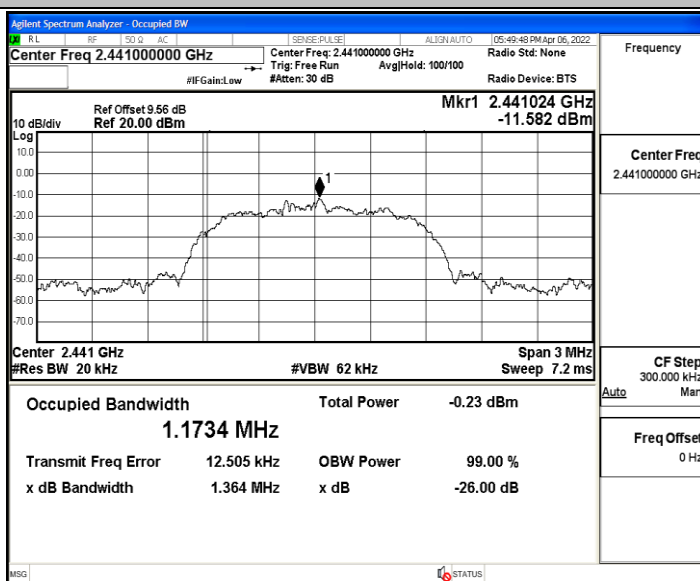
2DH5_Ant1_2480



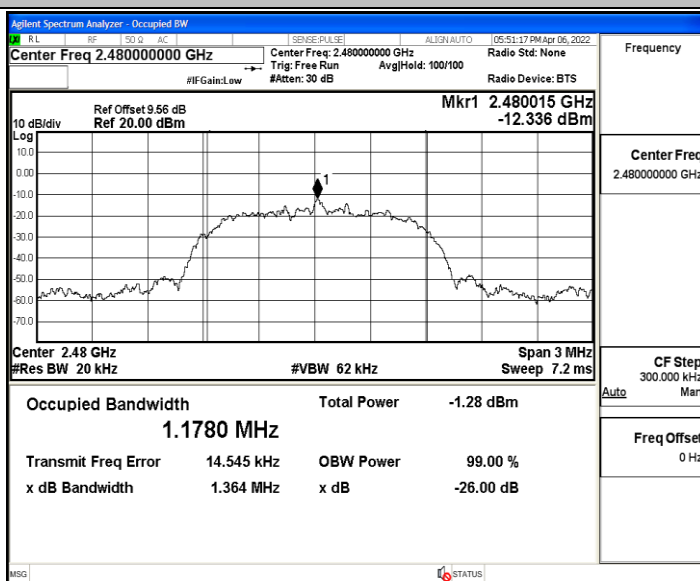
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



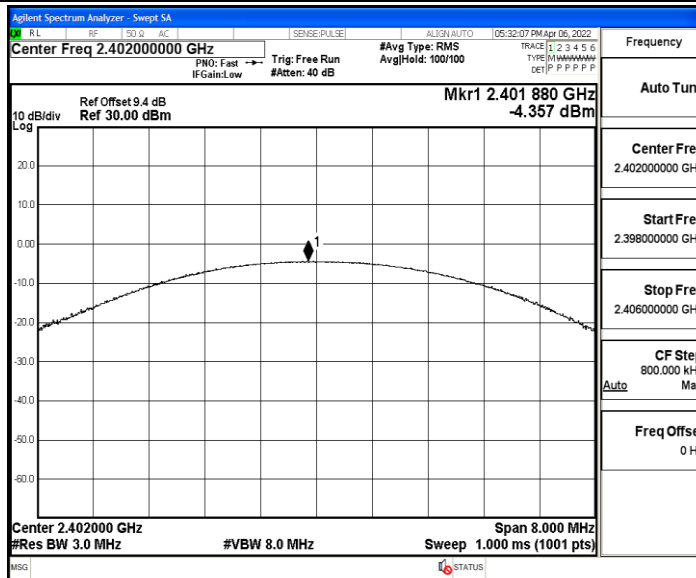
Appendix C: Maximum conducted output power

Test Result

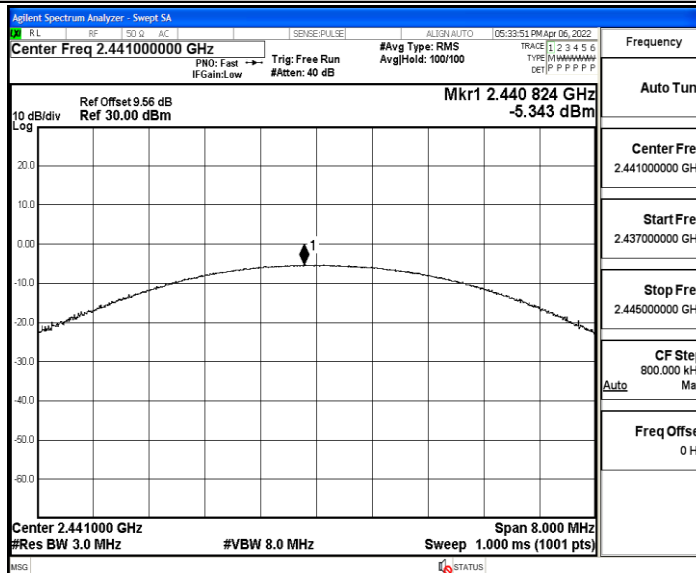
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-4.36	≤30	PASS
		2441	-5.34	≤30	PASS
		2480	-6.4	≤30	PASS
2DH5	Ant1	2402	-3.7	≤20.97	PASS
		2441	-4.71	≤20.97	PASS
		2480	-5.75	≤20.97	PASS
3DH5	Ant1	2402	-3.03	≤20.97	PASS
		2441	-4.19	≤20.97	PASS
		2480	-5.17	≤20.97	PASS

Test Graphs

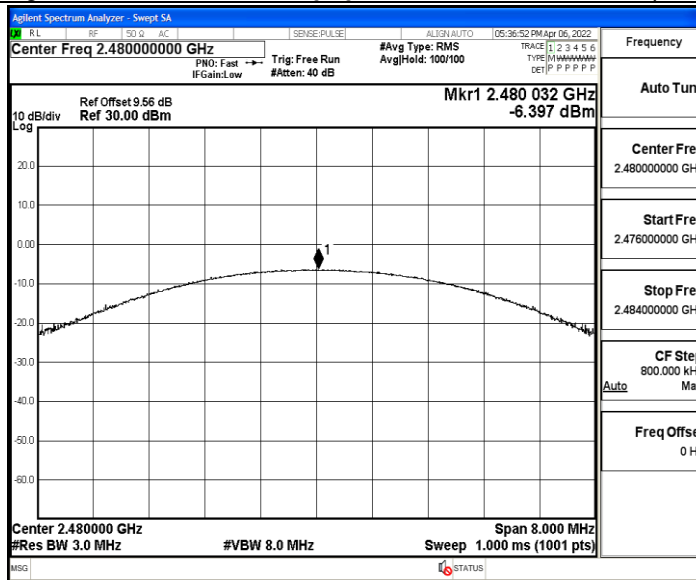
DH5_Ant1_2402



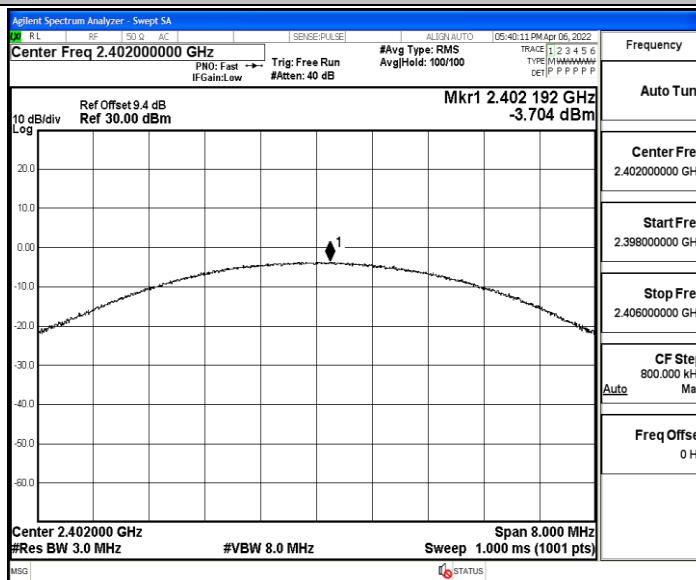
DH5_Ant1_2441



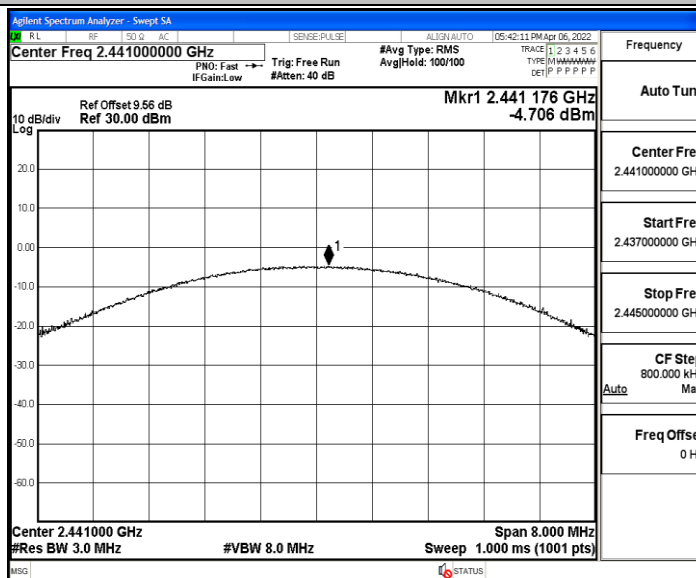
DH5_Ant1_2480



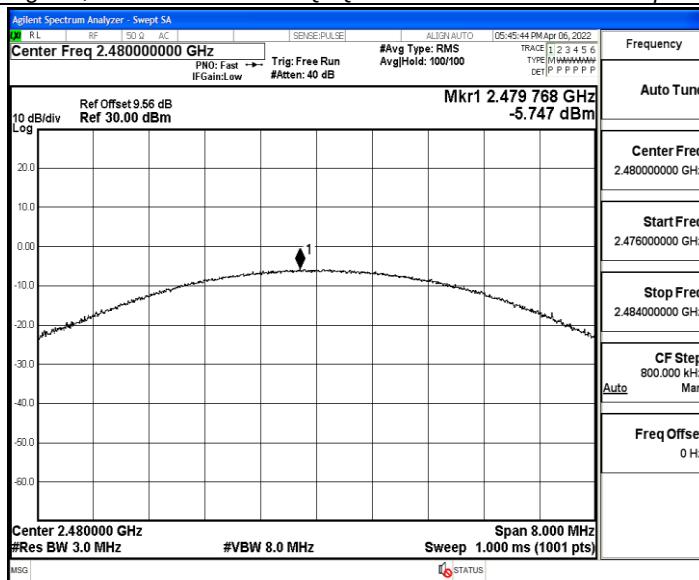
2DH5_Ant1_2402



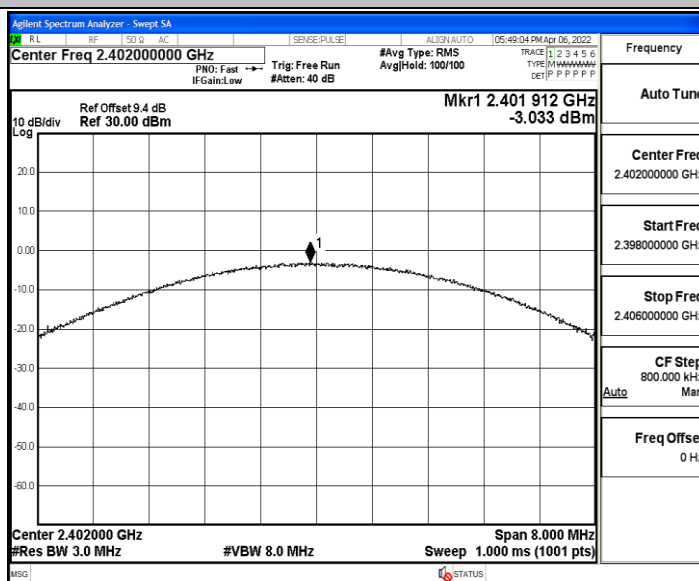
2DH5_Ant1_2441



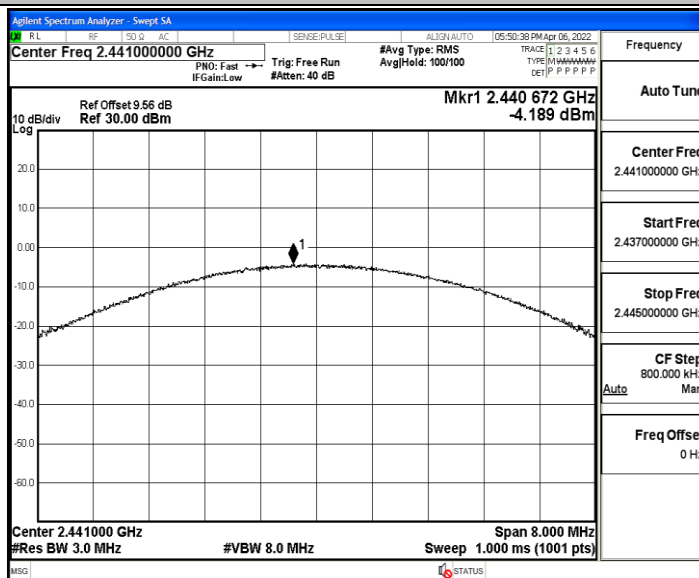
2DH5_Ant1_2480



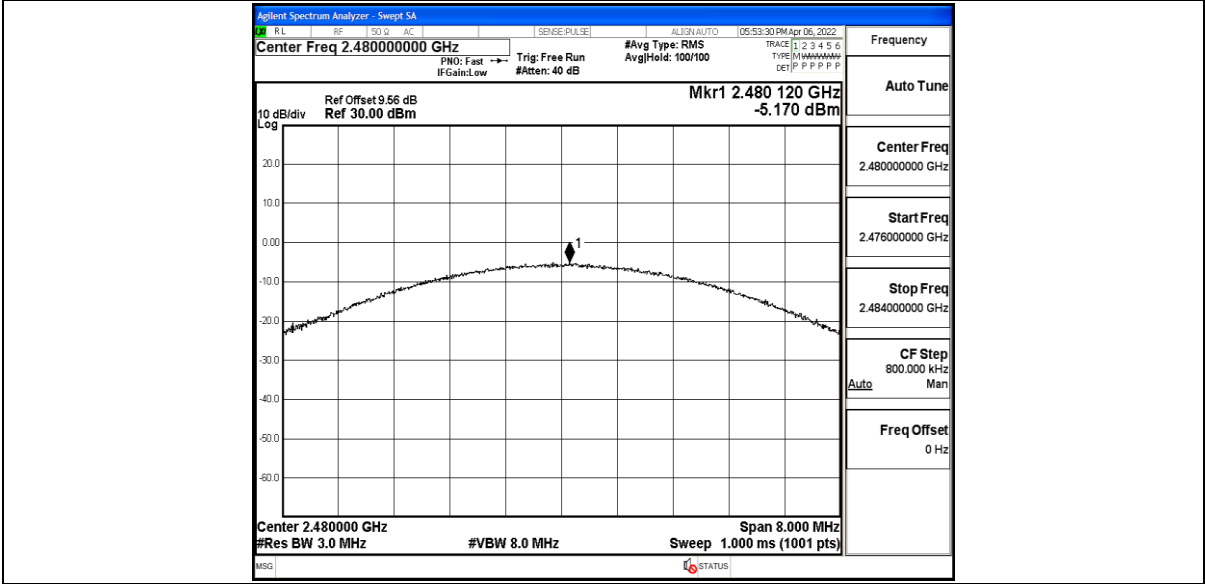
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



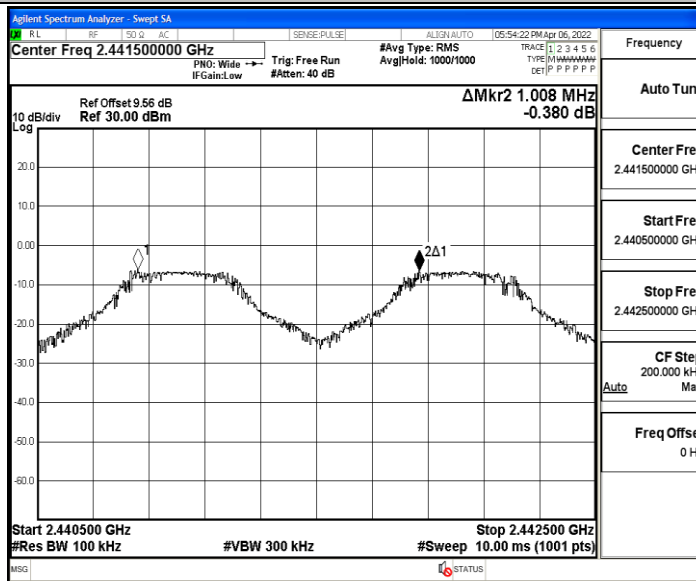
Appendix D: Carrier frequency separation

Test Result

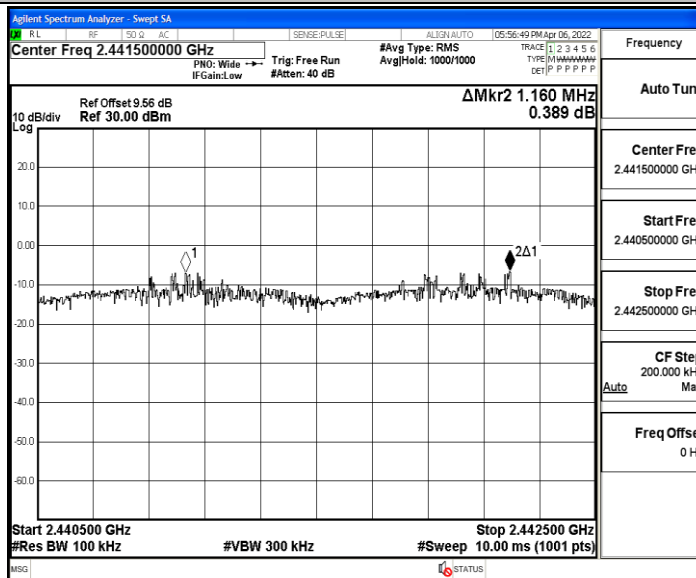
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥0.939	PASS
2DH5	Ant1	Hop	1.16	≥0.882	PASS
3DH5	Ant1	Hop	0.972	≥0.866	PASS

Test Graphs

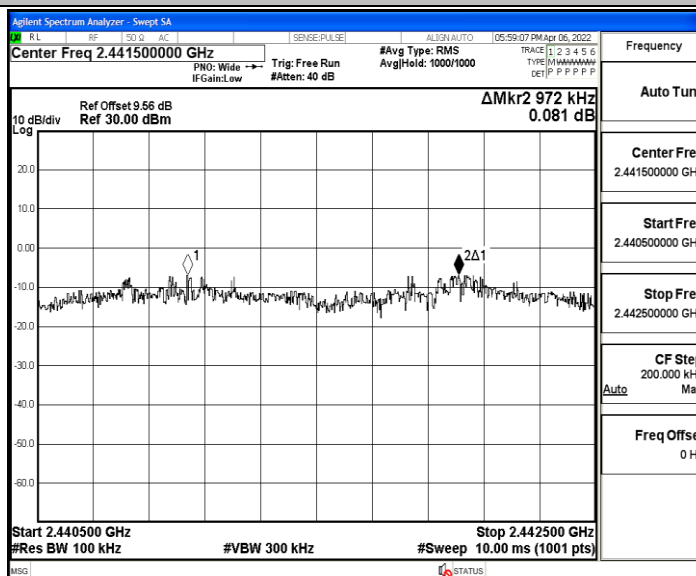
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



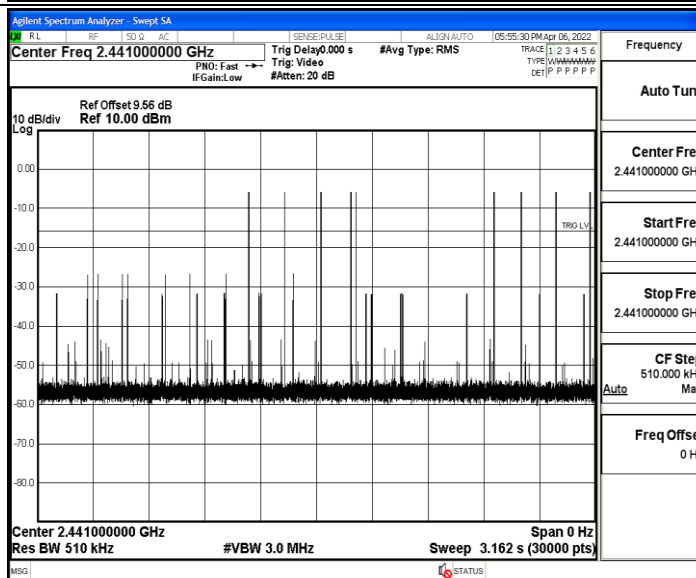
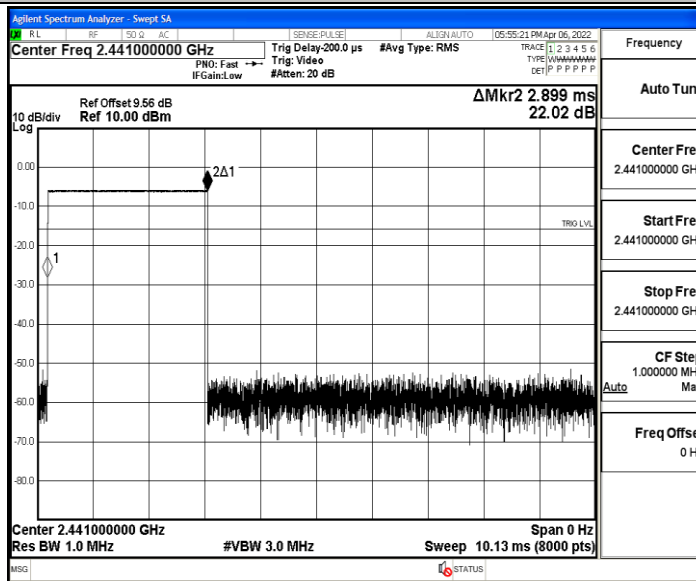
Appendix E: Time of occupancy

Test Result

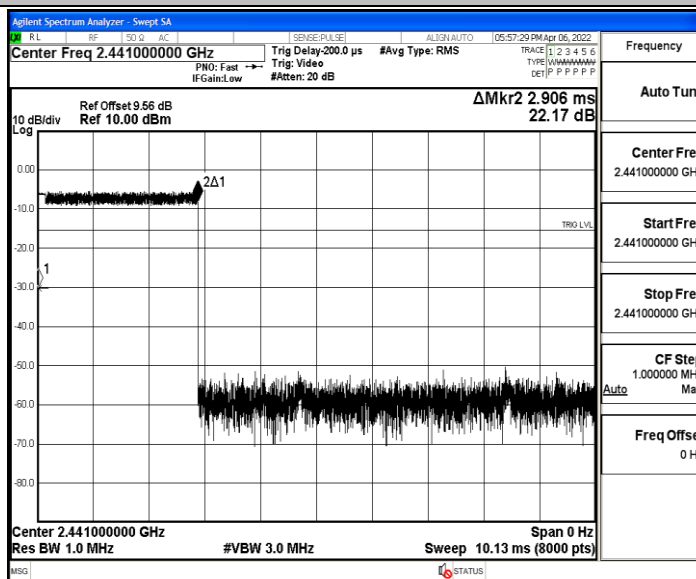
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS
2DH5	Ant1	Hop	2.91	80	0.232	≤0.4	PASS
3DH5	Ant1	Hop	2.91	130	0.378	≤0.4	PASS

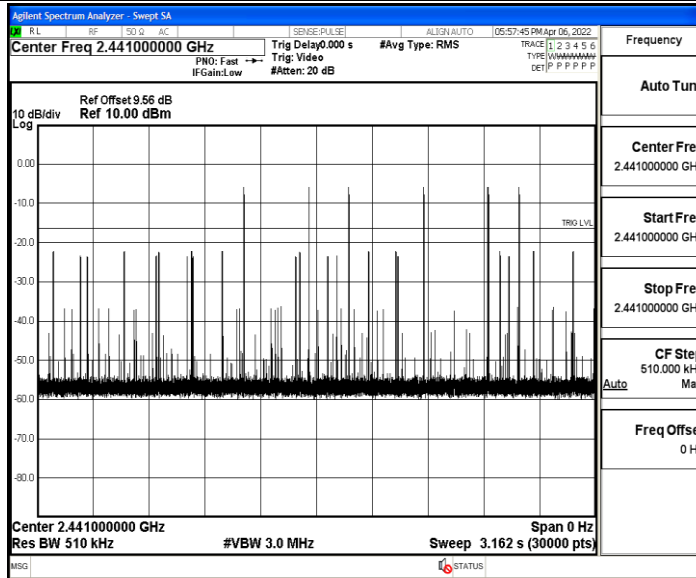
Test Graphs

DH5_Ant1_Hop

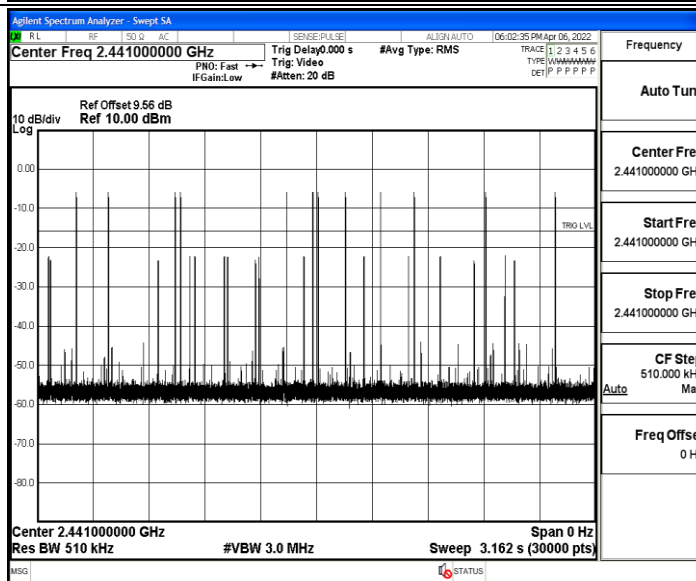
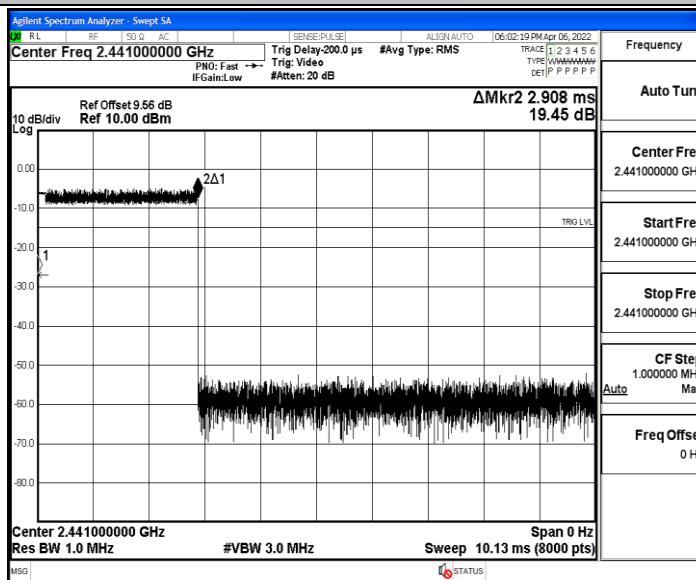


2DH5_Ant1_Hop





3DH5_Ant1_Hop



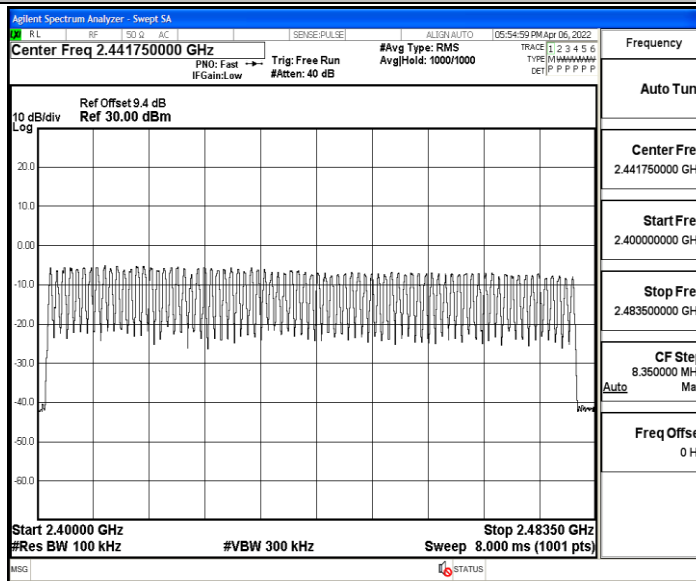
Appendix F: Number of hopping channels

Test Result

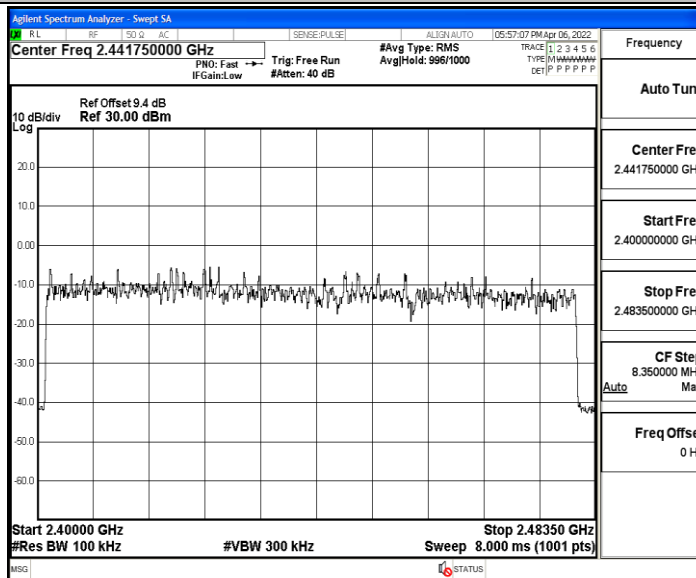
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

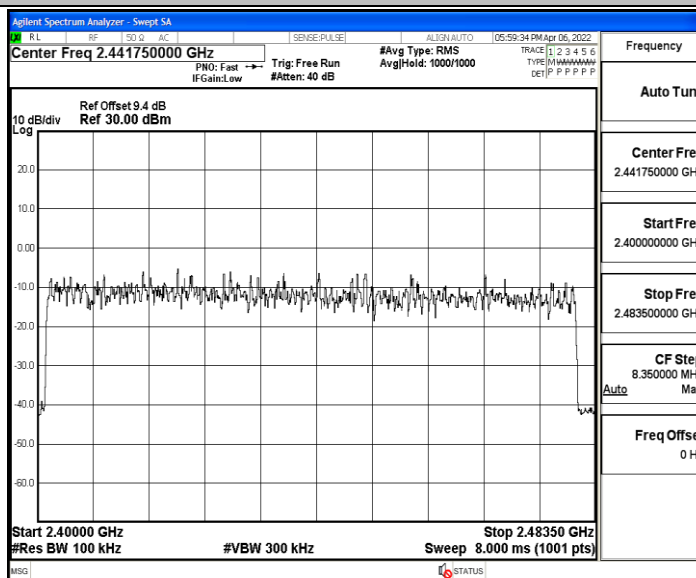
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



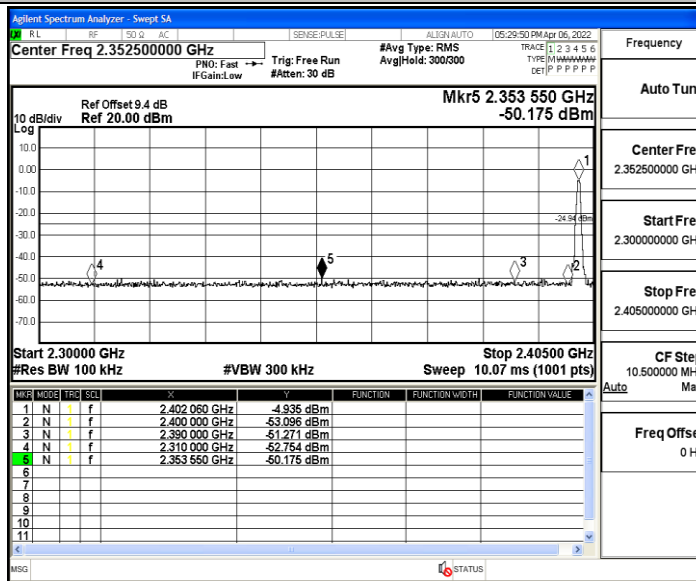
Appendix G: Band edge measurements

Test Result

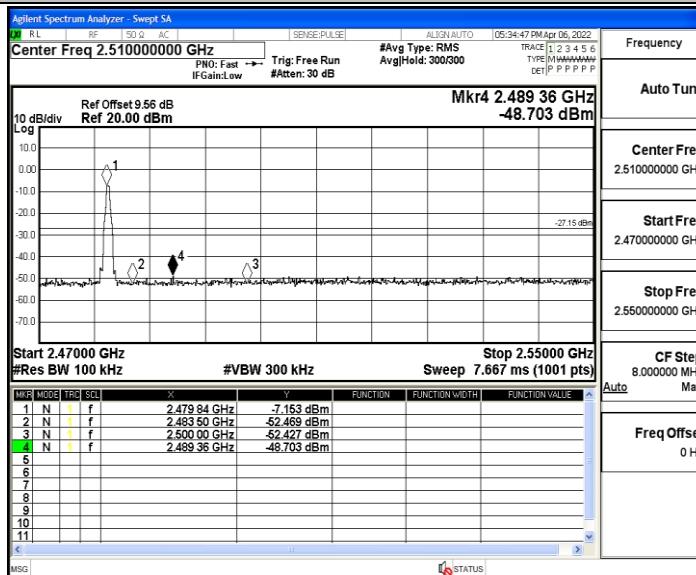
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.94	-50.18	≤ -24.94	PASS
		High	2480	-7.15	-48.7	≤ -27.15	PASS
		Low	Hop_2402	-6.11	-50.54	≤ -26.11	PASS
		High	Hop_2480	-7.41	-49.27	≤ -27.41	PASS
2DH5	Ant1	Low	2402	-5.60	-50.14	≤ -25.6	PASS
		High	2480	-7.42	-49.08	≤ -27.42	PASS
		Low	Hop_2402	-9.03	-50.62	≤ -29.03	PASS
		High	Hop_2480	-7.64	-49.12	≤ -27.64	PASS
3DH5	Ant1	Low	2402	-5.04	-50.21	≤ -25.04	PASS
		High	2480	-7.14	-48.63	≤ -27.14	PASS
		Low	Hop_2402	-9.54	-50.67	≤ -29.54	PASS
		High	Hop_2480	-8.65	-48.95	≤ -28.65	PASS

Test Graphs

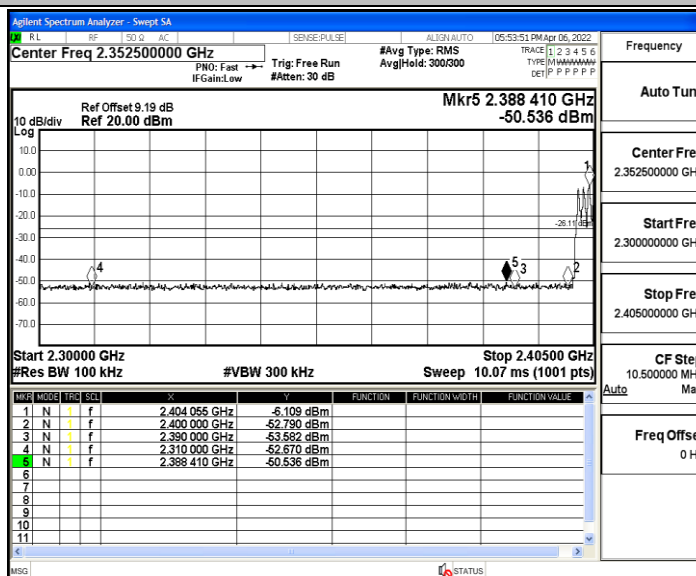
DH5_Ant1_Low_2402



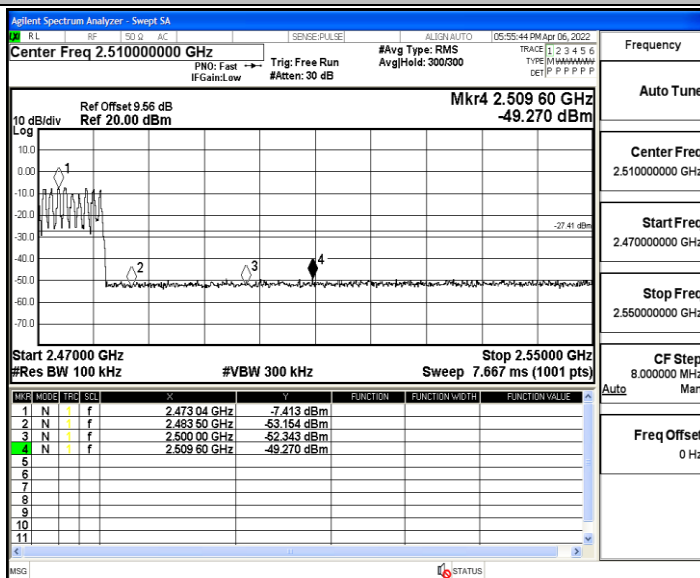
DH5_Ant1_High_2480



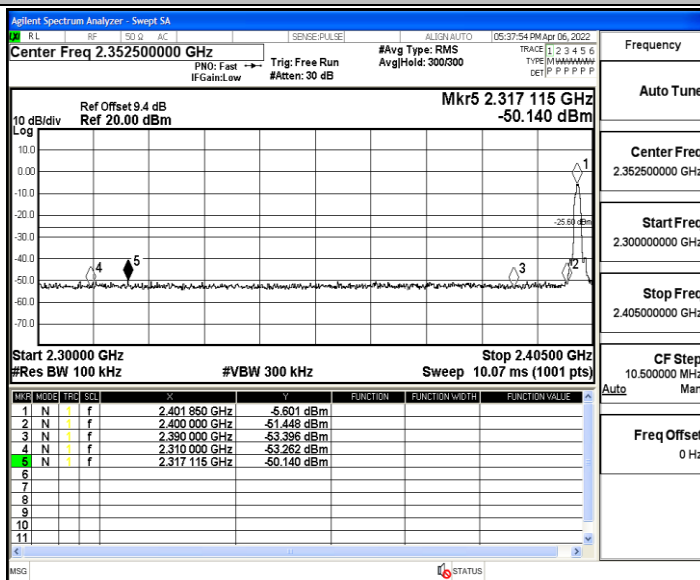
DH5_Ant1_Low_Hop_2402



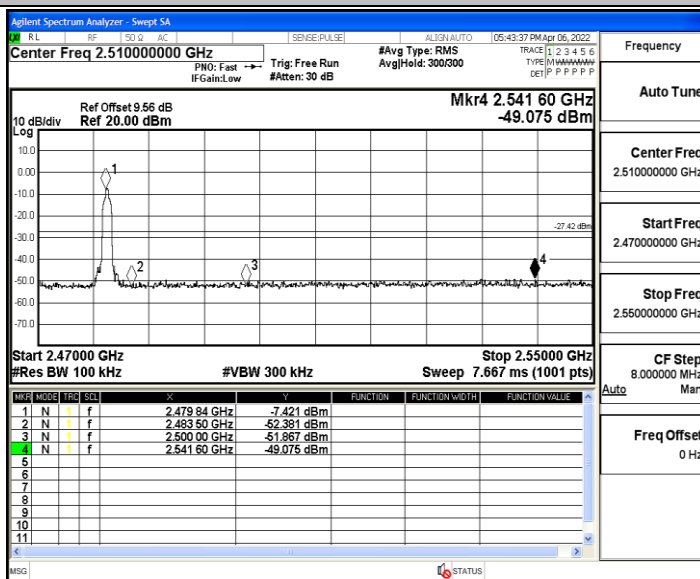
DH5_Ant1_High_Hop_2480



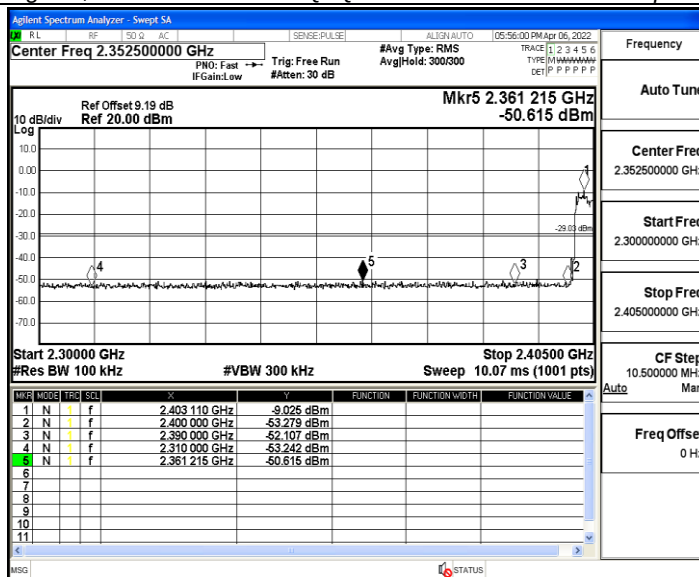
2DH5_Ant1_Low_2402



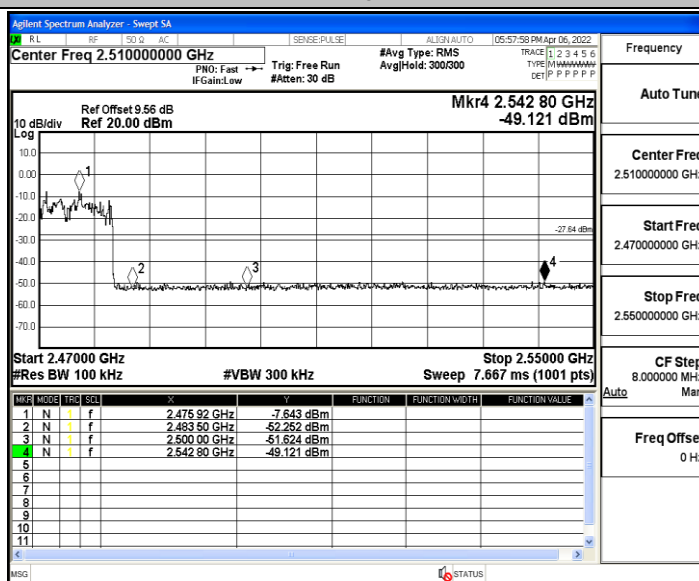
2DH5_Ant1_High_2480



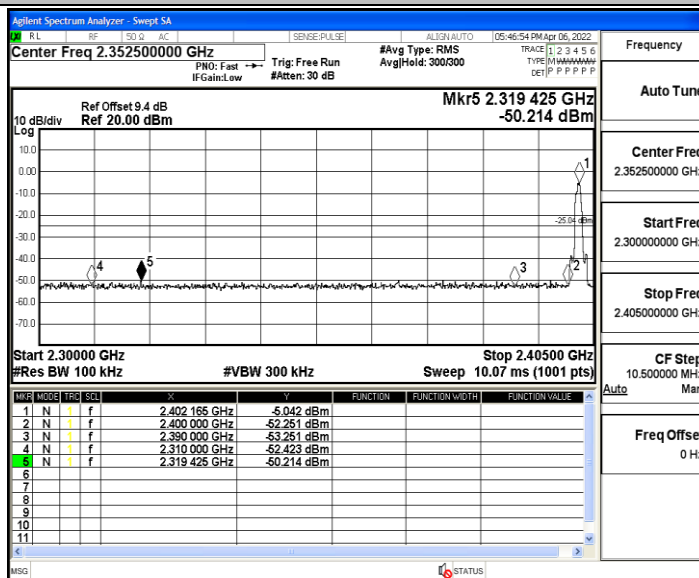
2DH5_Ant1_Low_Hop_2402



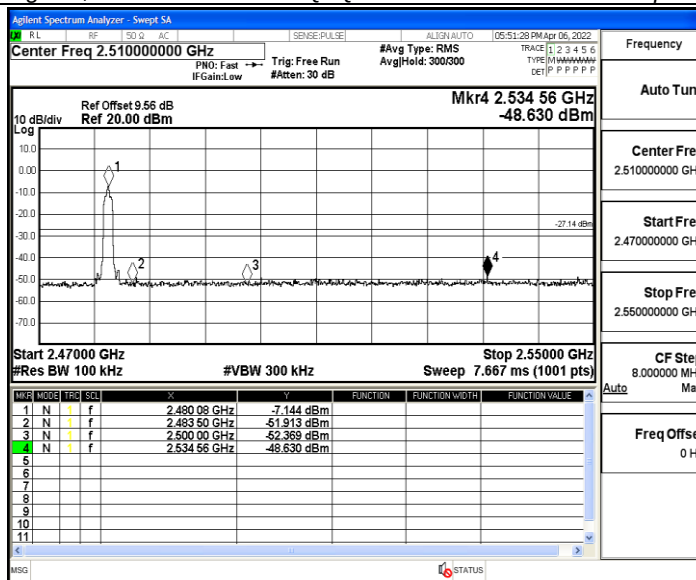
2DH5_Ant1_High_Hop_2480



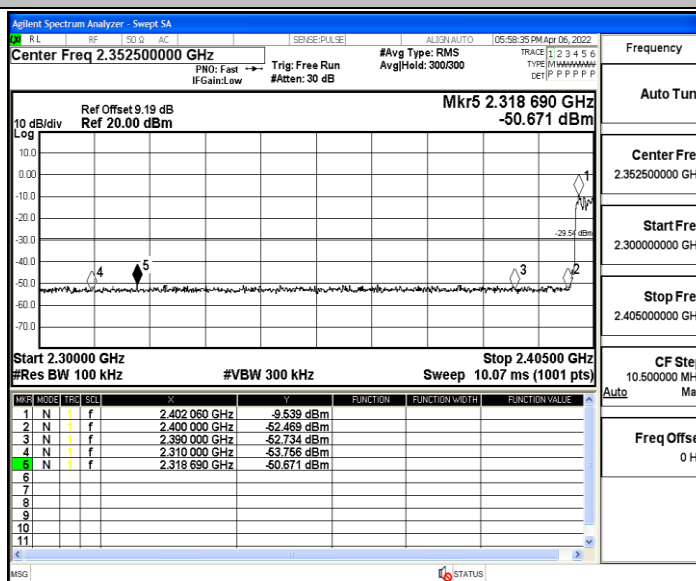
3DH5_Ant1_Low_2402



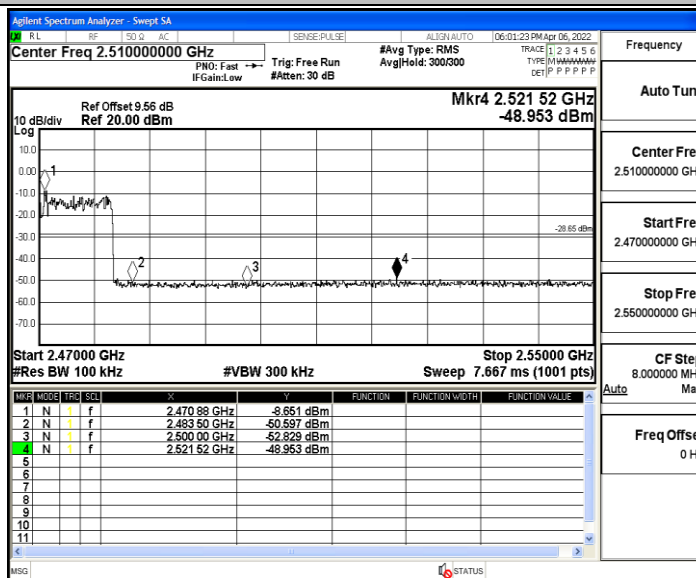
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



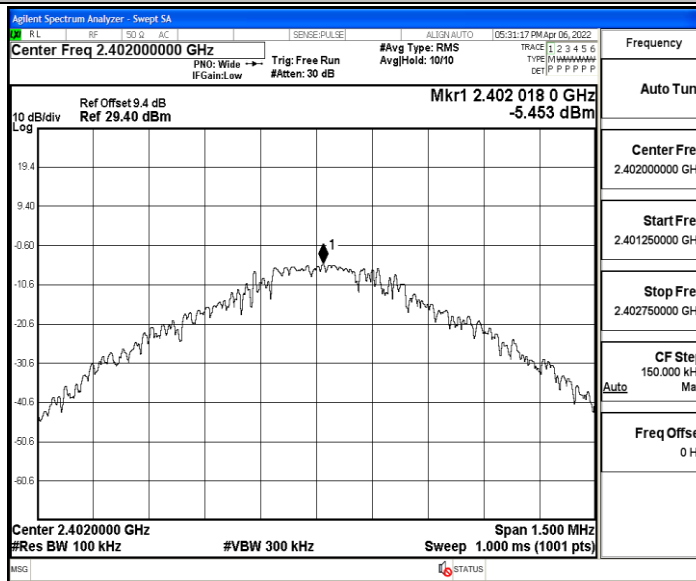
Appendix H: Conducted Spurious Emission

Test Result

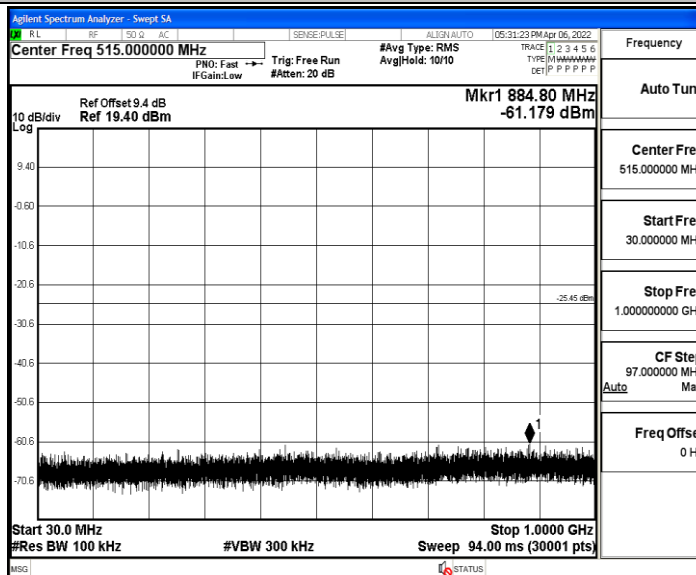
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.45	-5.45	---	PASS
			30~1000	-5.45	-61.18	≤-25.45	PASS
			1000~26500	-5.45	-50.94	≤-25.45	PASS
		2441	Reference	-6.69	-6.69	---	PASS
			30~1000	-6.69	-61.23	≤-26.69	PASS
			1000~26500	-6.69	-49.99	≤-26.69	PASS
		2480	Reference	-7.62	-7.62	---	PASS
			30~1000	-7.62	-60.85	≤-27.62	PASS
			1000~26500	-7.62	-52	≤-27.62	PASS
2DH5	Ant1	2402	Reference	-7.57	-7.57	---	PASS
			30~1000	-7.57	-60.97	≤-27.57	PASS
			1000~26500	-7.57	-50.07	≤-27.57	PASS
		2441	Reference	-8.63	-8.63	---	PASS
			30~1000	-8.63	-60.5	≤-28.63	PASS
			1000~26500	-8.63	-51.5	≤-28.63	PASS
		2480	Reference	-7.91	-7.91	---	PASS
			30~1000	-7.91	-61.16	≤-27.91	PASS
			1000~26500	-7.91	-51.78	≤-27.91	PASS
3DH5	Ant1	2402	Reference	-9.08	-9.08	---	PASS
			30~1000	-9.08	-61.06	≤-29.08	PASS
			1000~26500	-9.08	-49.9	≤-29.08	PASS
		2441	Reference	-10.41	-10.41	---	PASS
			30~1000	-10.41	-61.61	≤-30.41	PASS
			1000~26500	-10.41	-51.21	≤-30.41	PASS
		2480	Reference	-11.29	-11.29	---	PASS
			30~1000	-11.29	-60.72	≤-31.29	PASS
			1000~26500	-11.29	-50.93	≤-31.29	PASS

Test Graphs

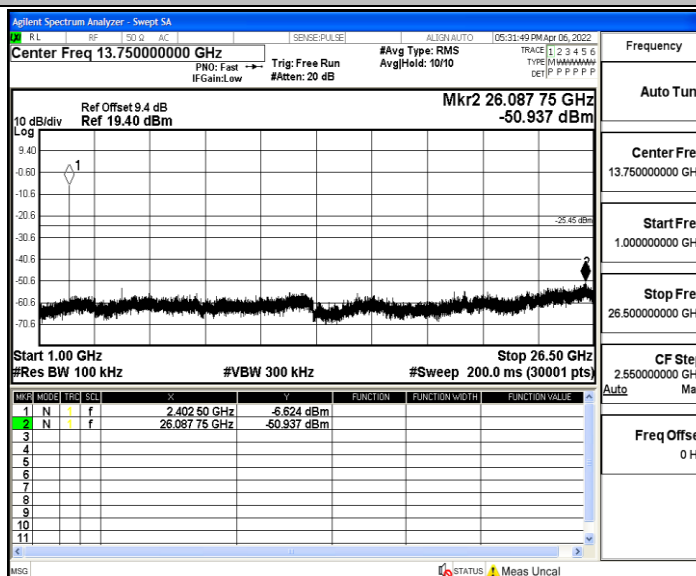
DH5_Ant1_2402_0~Reference



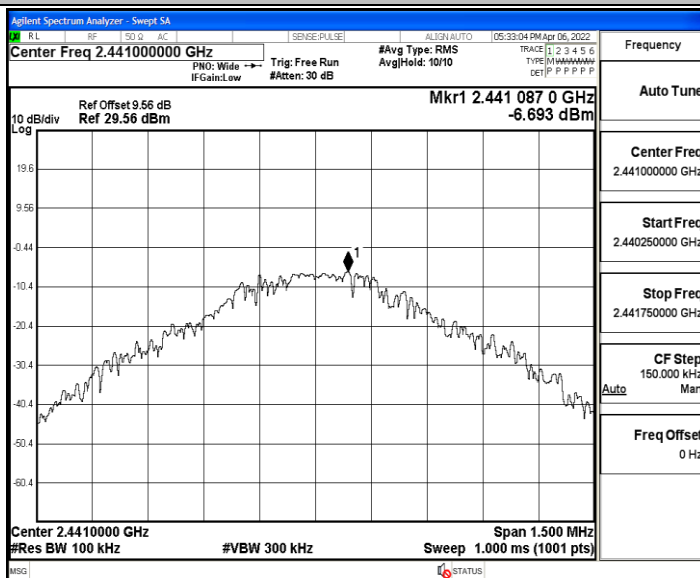
DH5_Ant1_2402_30~1000



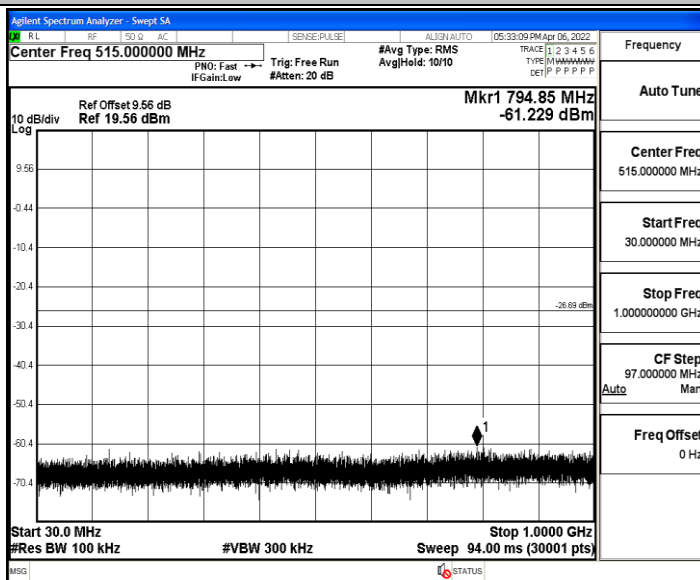
DH5_Ant1_2402_1000~26500



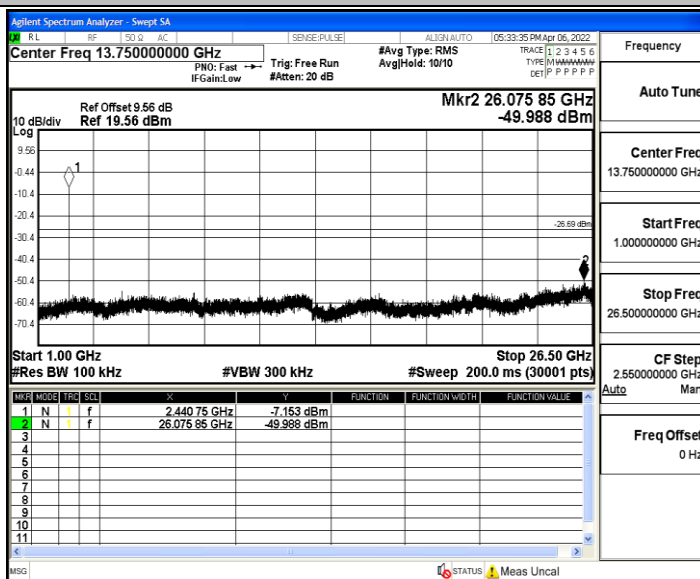
DH5_Ant1_2441_0~Reference



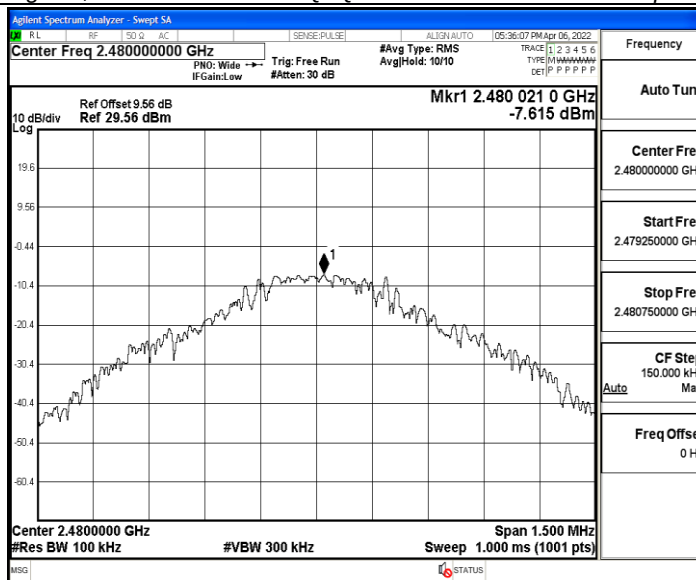
DH5_Ant1_2441_30~1000



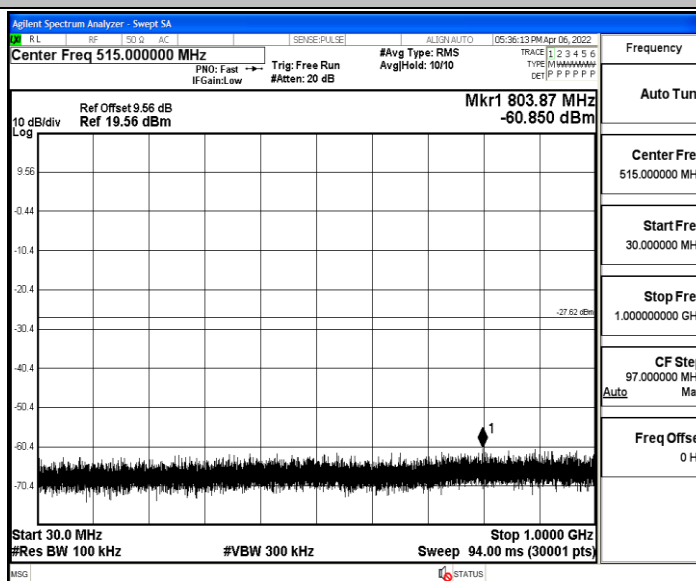
DH5_Ant1_2441_1000~26500



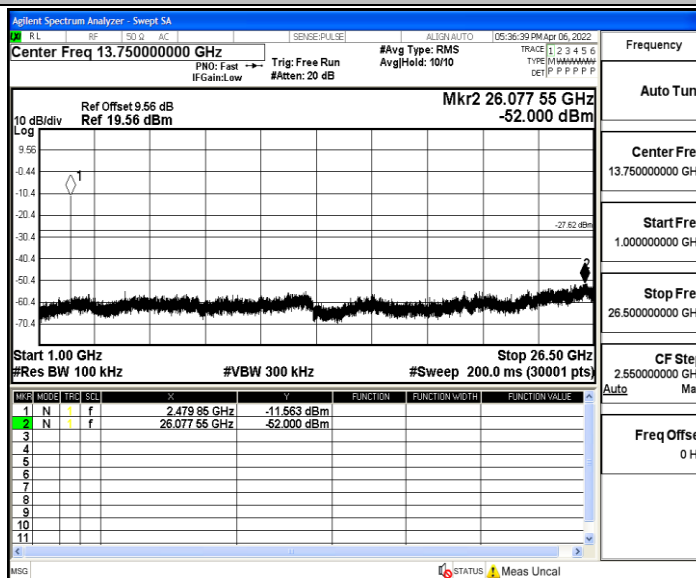
DH5_Ant1_2480_0~Reference



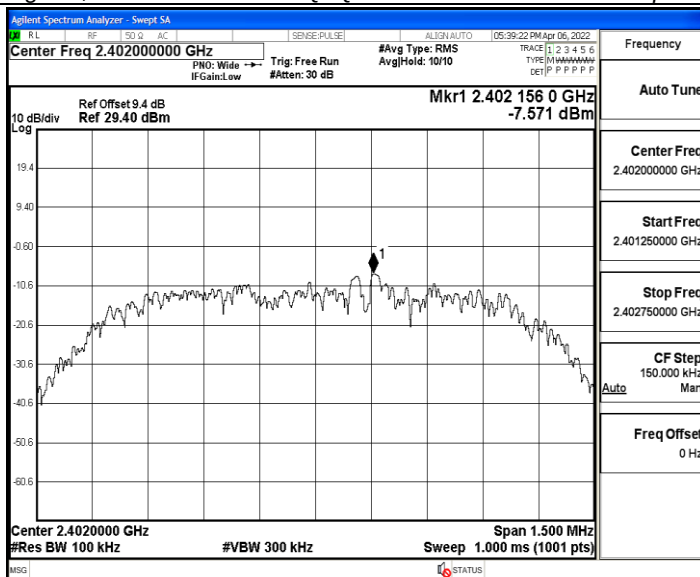
DH5_Ant1_2480_30~1000



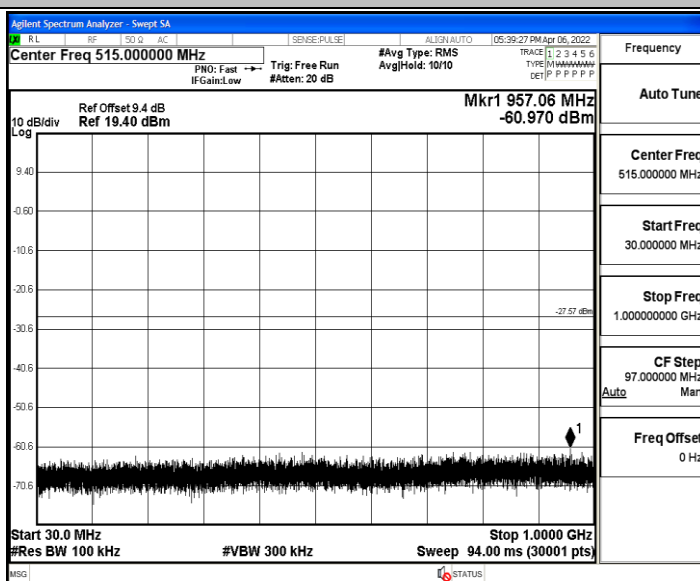
DH5_Ant1_2480_1000~26500



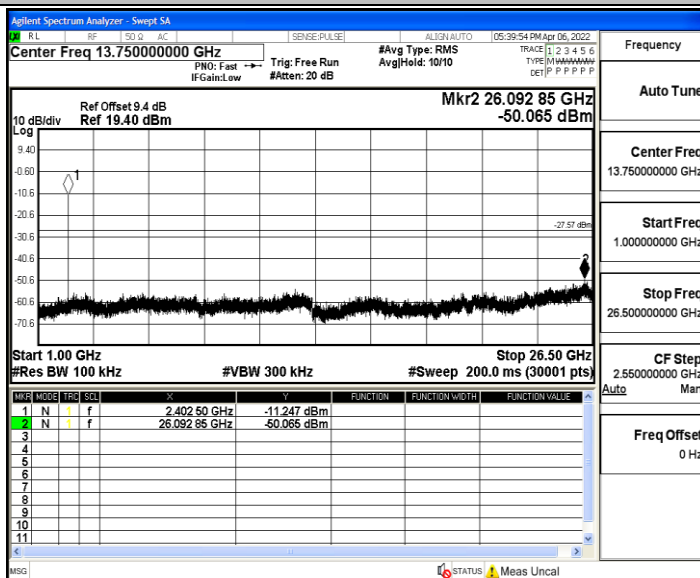
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference