

Appendix A

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

Product Name: Feature phone

Trade Mark: Sunelan

Test Model: S2

FCC ID: 2A2AJ-S2

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

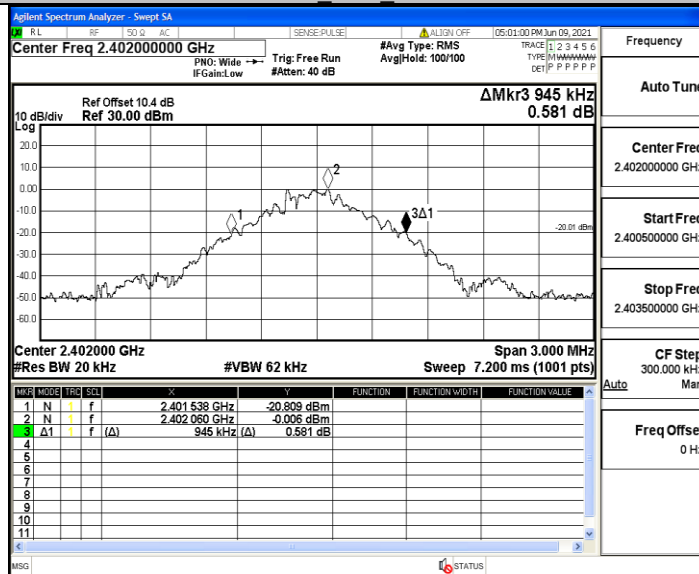
Appendix A: 20dB Emission Bandwidth

Test Result

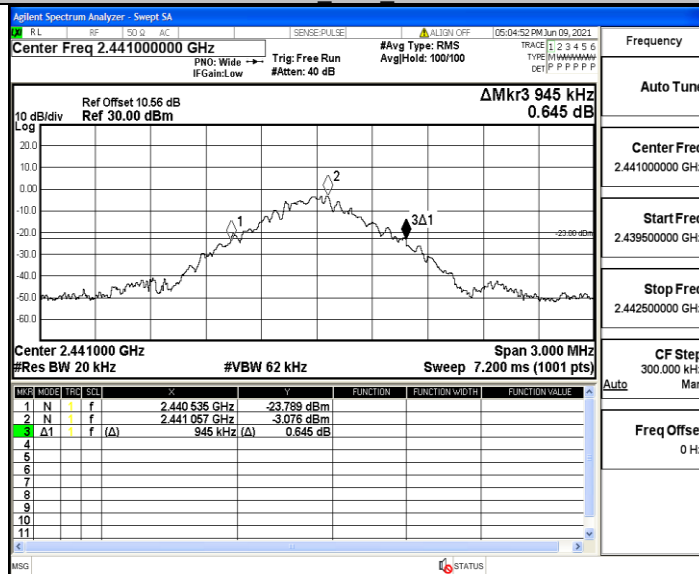
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.538	2402.483	---	PASS
		2441	0.945	2440.535	2441.480	---	PASS
		2480	0.942	2479.535	2480.477	---	PASS
2DH5	Ant1	2402	1.281	2401.370	2402.651	---	PASS
		2441	1.317	2440.337	2441.654	---	PASS
		2480	1.317	2479.337	2480.654	---	PASS
3DH5	Ant1	2402	1.278	2401.349	2402.627	---	PASS
		2441	1.293	2440.346	2441.639	---	PASS
		2480	1.278	2479.349	2480.627	---	PASS

Test Graphs

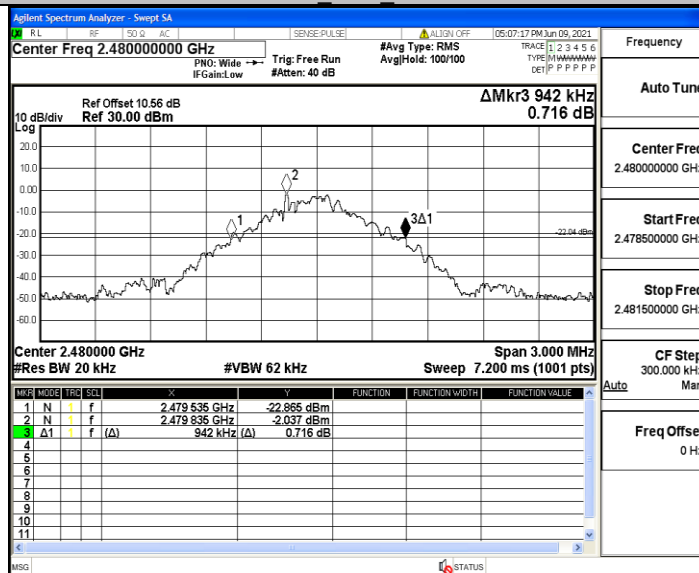
DH5_Ant1_2402



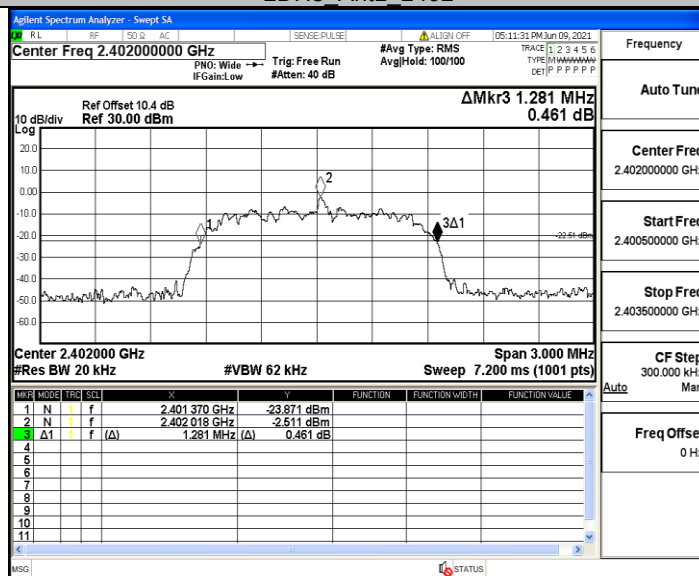
DH5_Ant1_2441



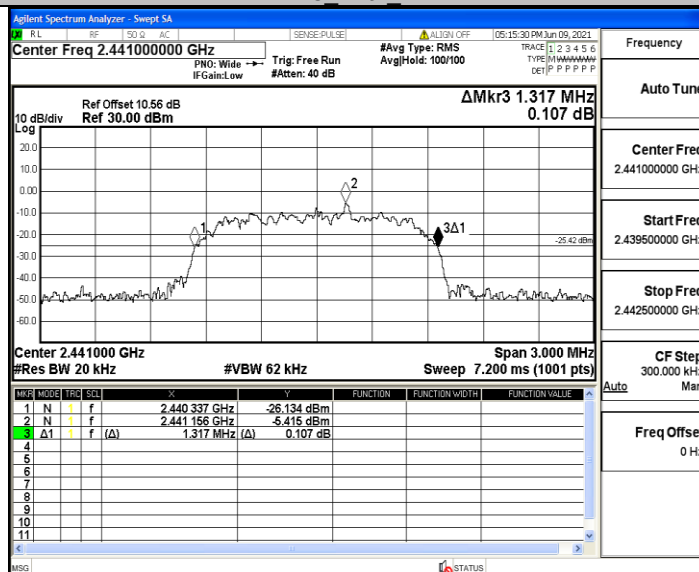
DH5_Ant1_2480



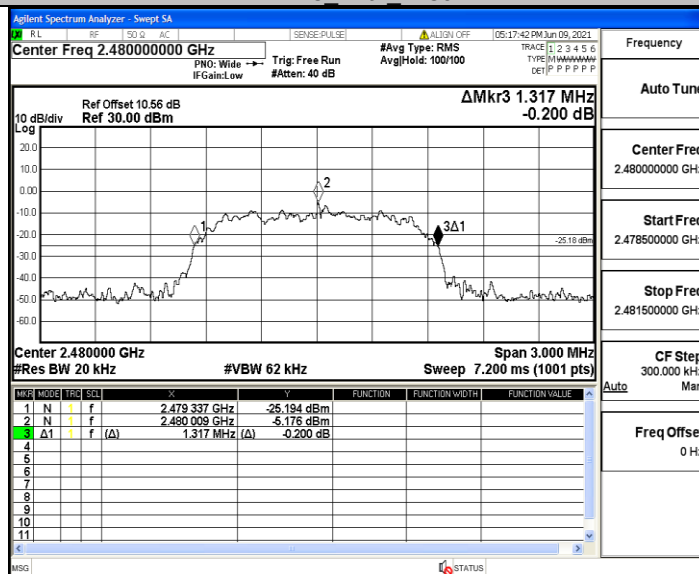
2DH5_Ant1_2402



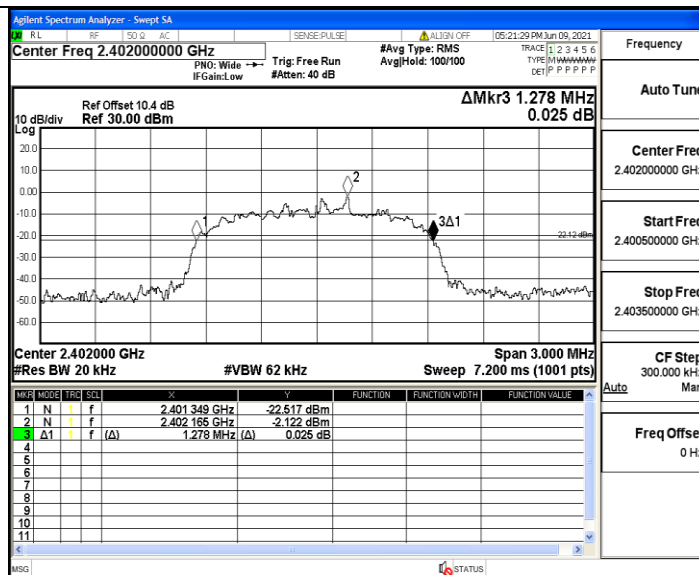
2DH5_Ant1_2441



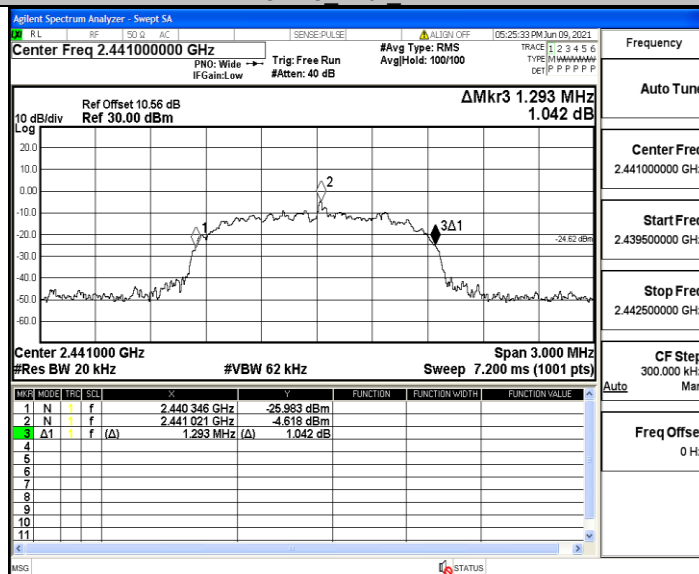
2DH5_Ant1_2480



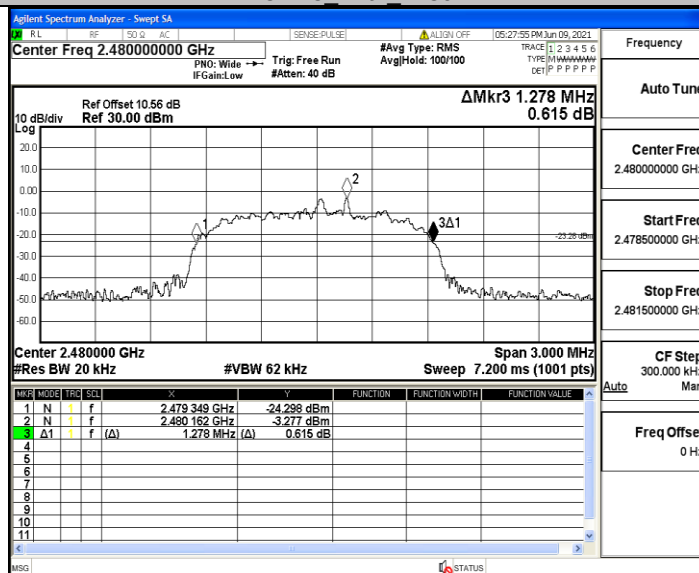
3DH5_Ant1_2402



3DH5 Ant1_2441



3DH5 Ant1_2480



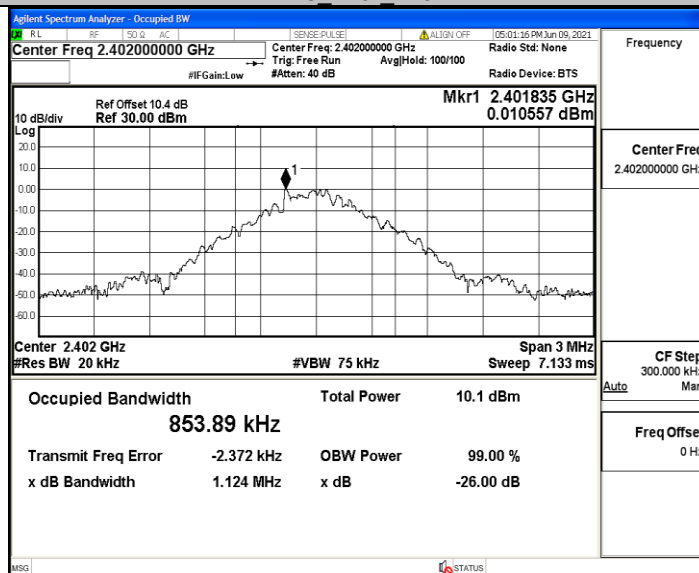
Appendix B: Occupied Channel Bandwidth

Test Result

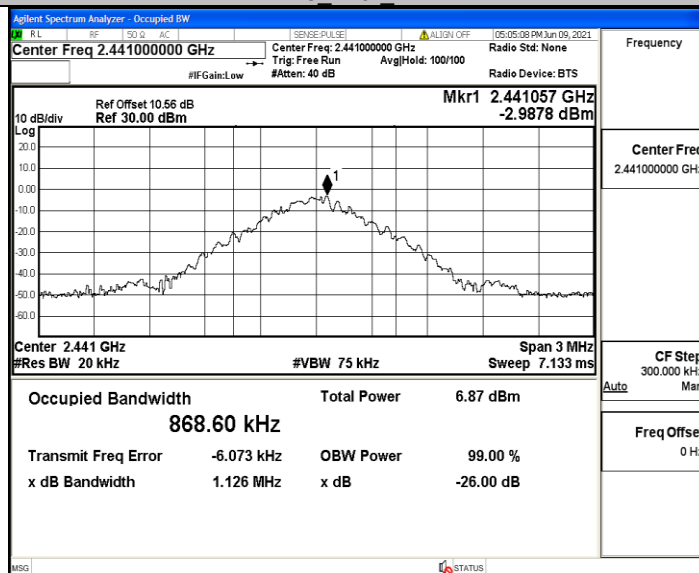
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85389	2401.571	2402.425	---	PASS
		2441	0.86860	2440.560	2441.428	---	PASS
		2480	0.85357	2479.563	2480.416	---	PASS
2DH5	Ant1	2402	1.1899	2401.403	2402.593	---	PASS
		2441	1.1873	2440.402	2441.590	---	PASS
		2480	1.1875	2479.402	2480.589	---	PASS
3DH5	Ant1	2402	1.1986	2401.392	2402.590	---	PASS
		2441	1.1896	2440.397	2441.586	---	PASS
		2480	1.1932	2479.391	2480.584	---	PASS

Test Graphs

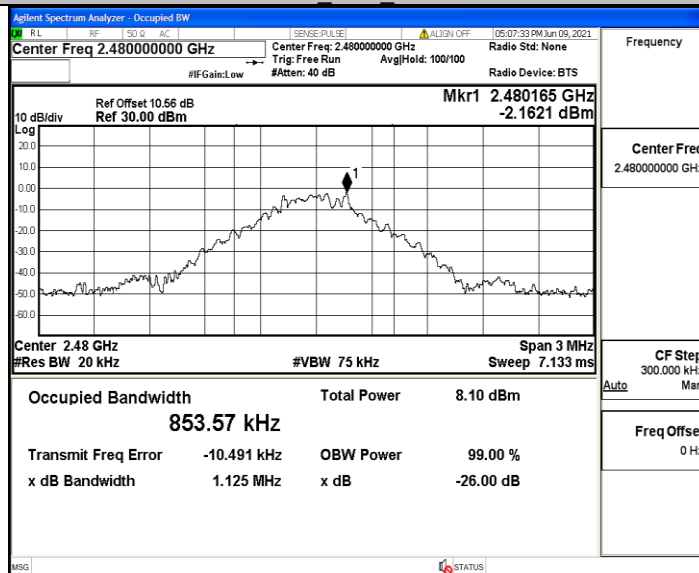
DH5_Ant1_2402



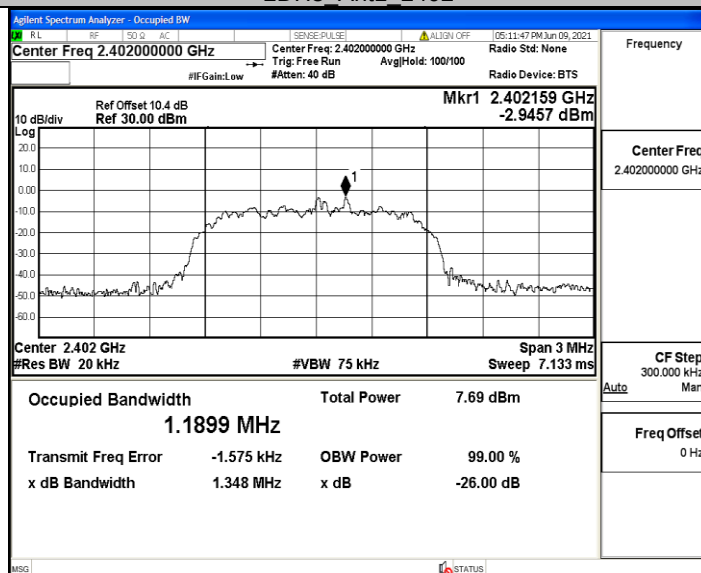
DH5_Ant1_2441



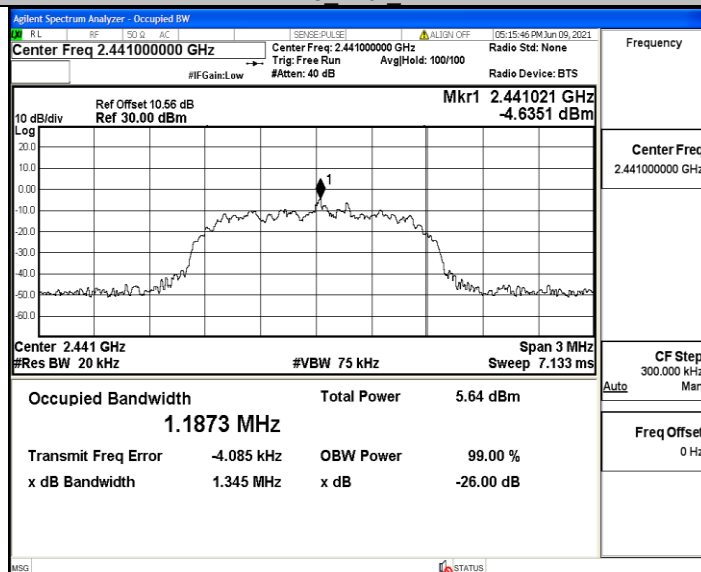
DH5_Ant1_2480



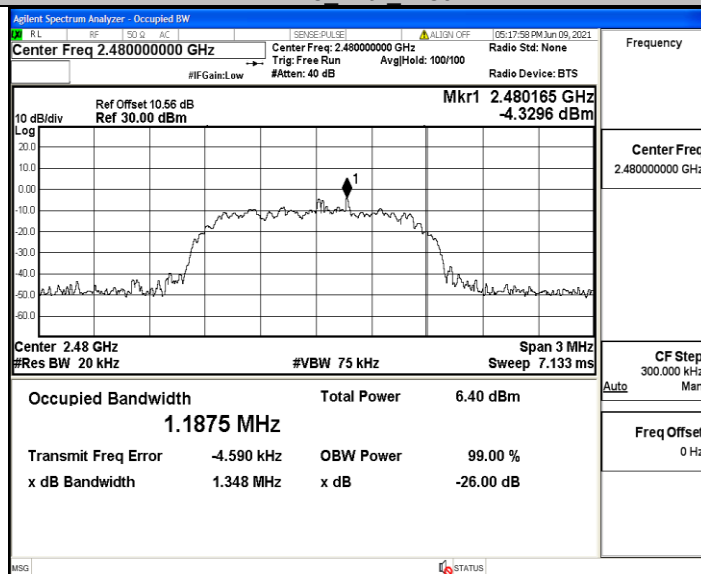
2DH5_Ant1_2402



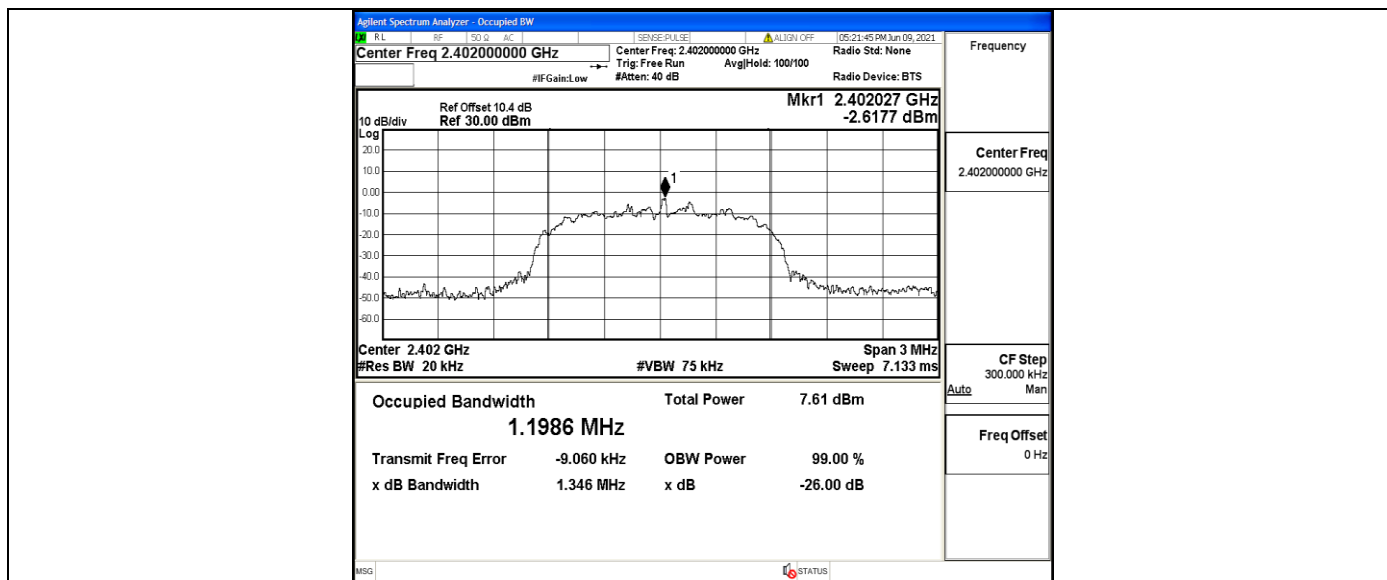
2DH5_Ant1_2441



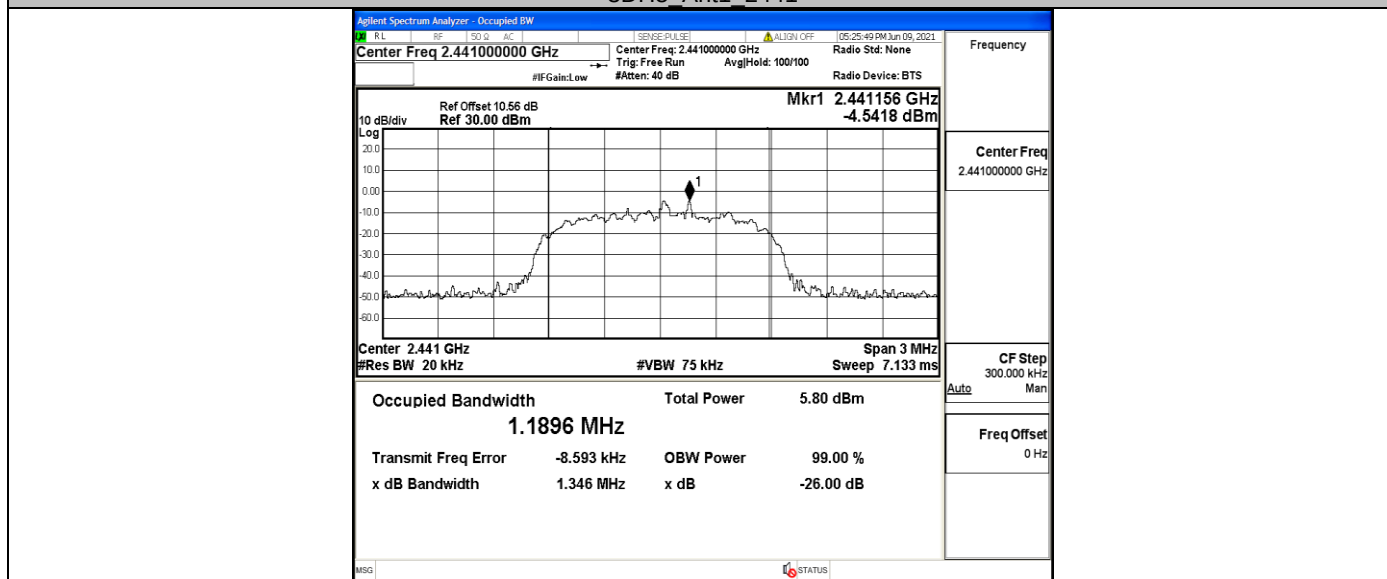
2DH5_Ant1_2480



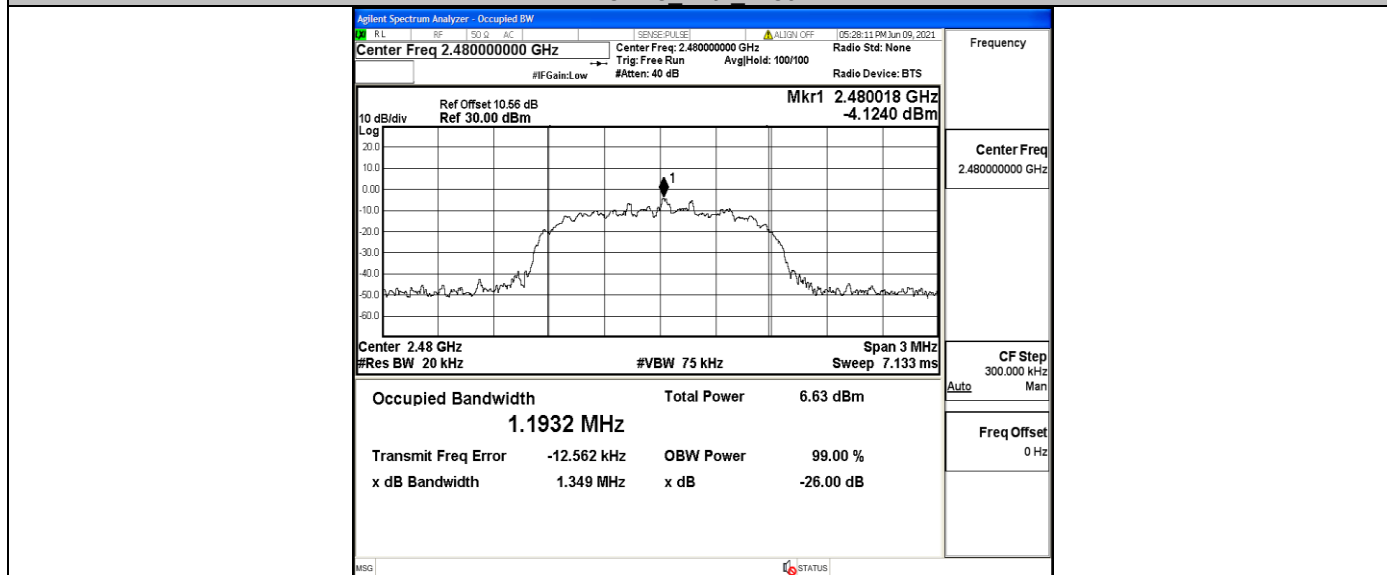
3DH5_Ant1_2402



3DH5 Ant1 2441



3DH5 Ant1 2480

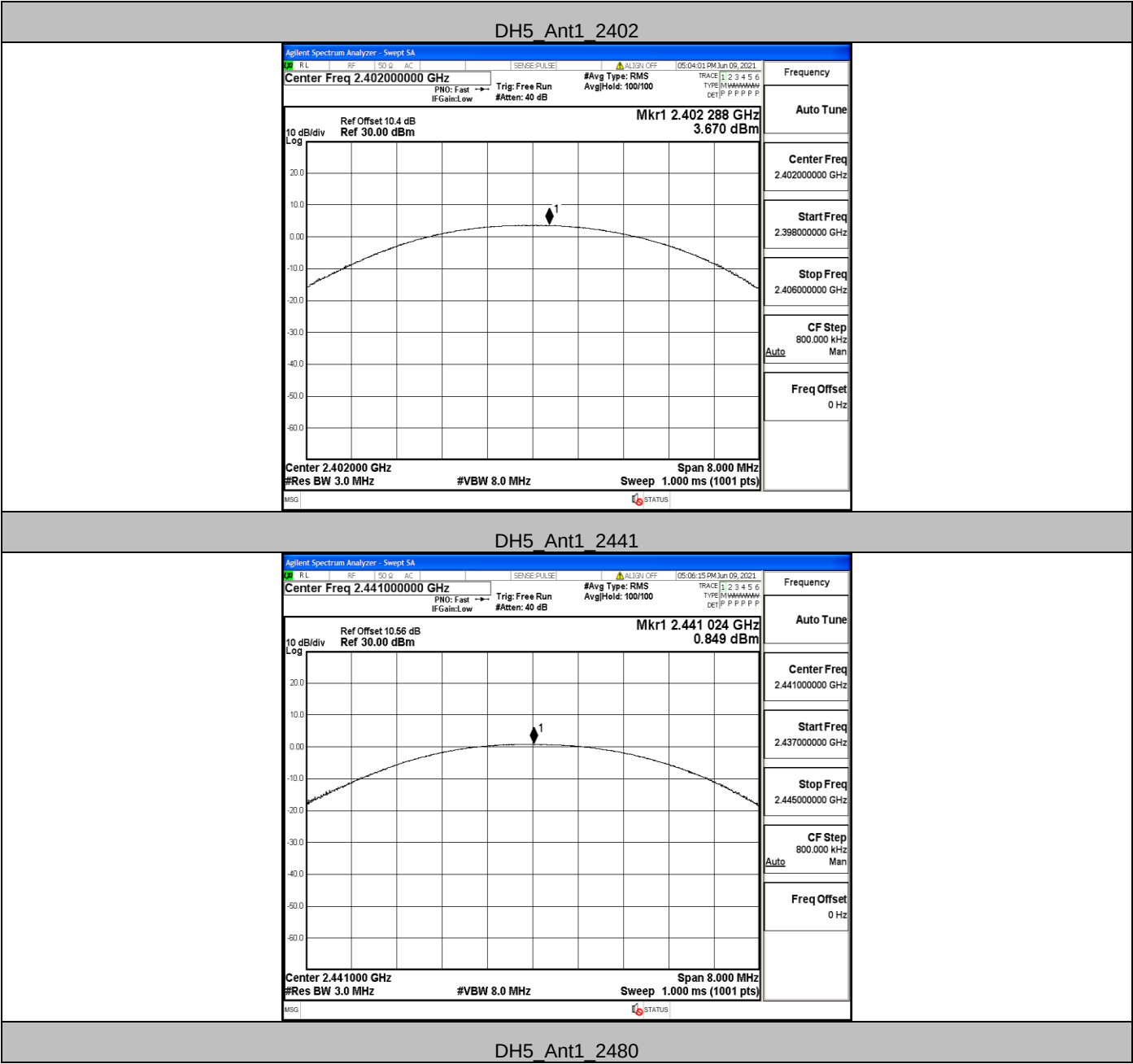


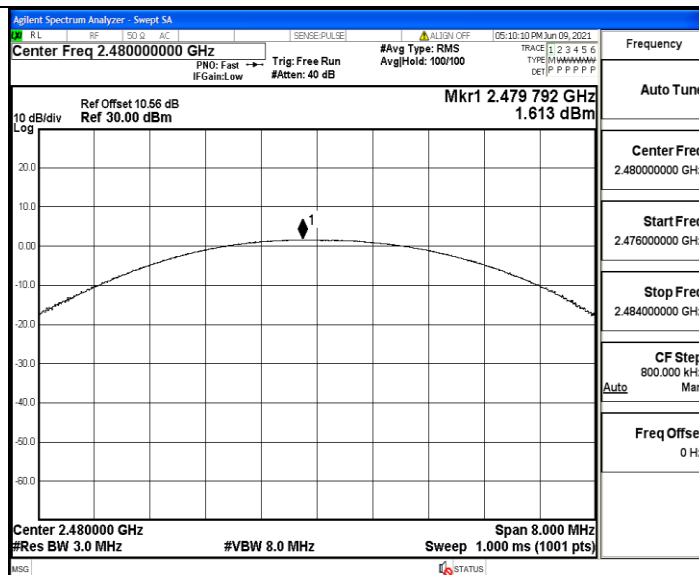
Appendix C: Maximum conducted output power

Test Result

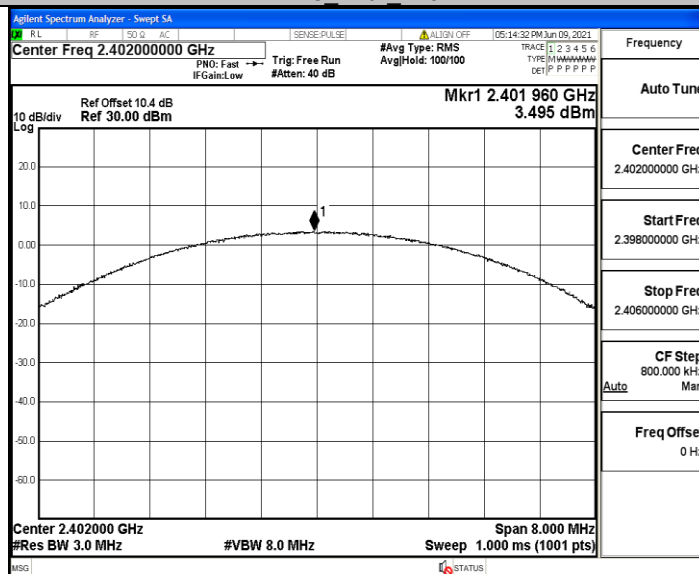
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.67	<=20.97	PASS
		2441	0.85	<=20.97	PASS
		2480	1.61	<=20.97	PASS
2DH5	Ant1	2402	3.5	<=20.97	PASS
		2441	1.46	<=20.97	PASS
		2480	2.4	<=20.97	PASS
3DH5	Ant1	2402	3.86	<=20.97	PASS
		2441	1.79	<=20.97	PASS
		2480	2.65	<=20.97	PASS

Test Graphs

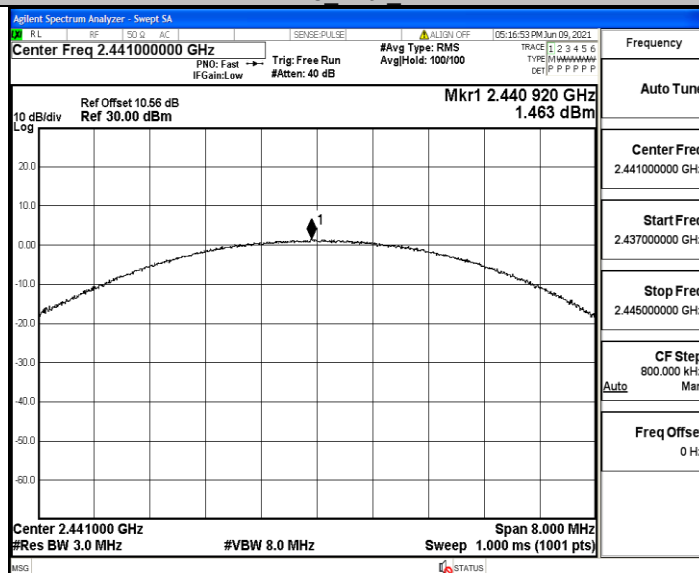




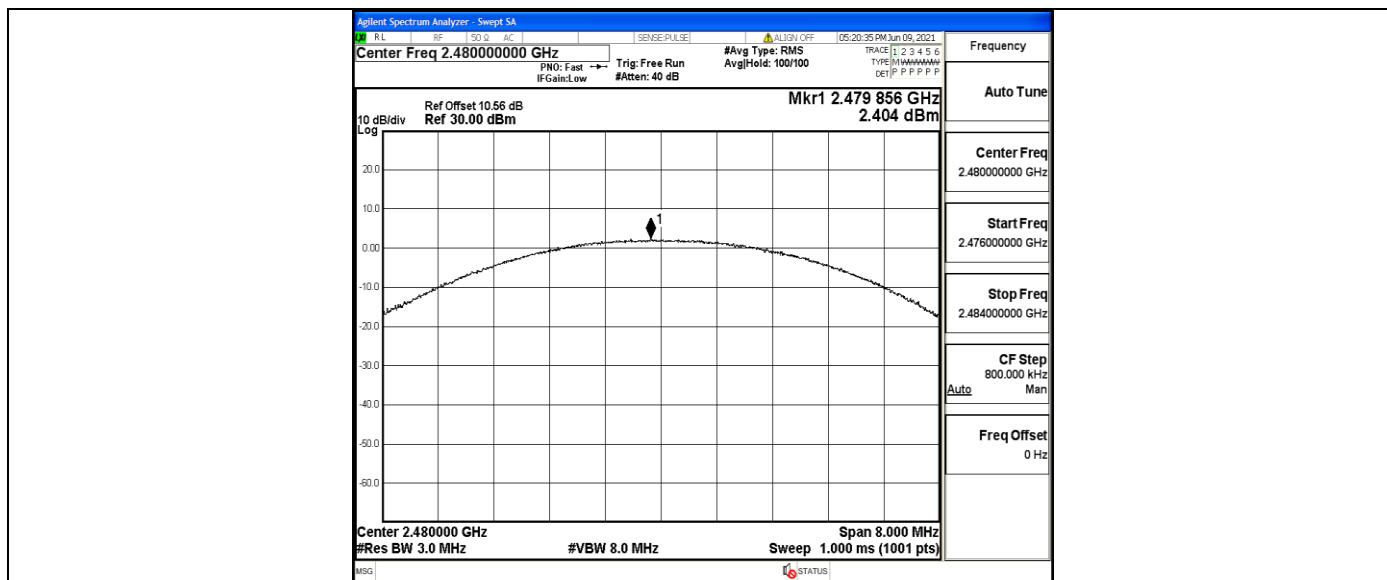
2DH5_Ant1_2402



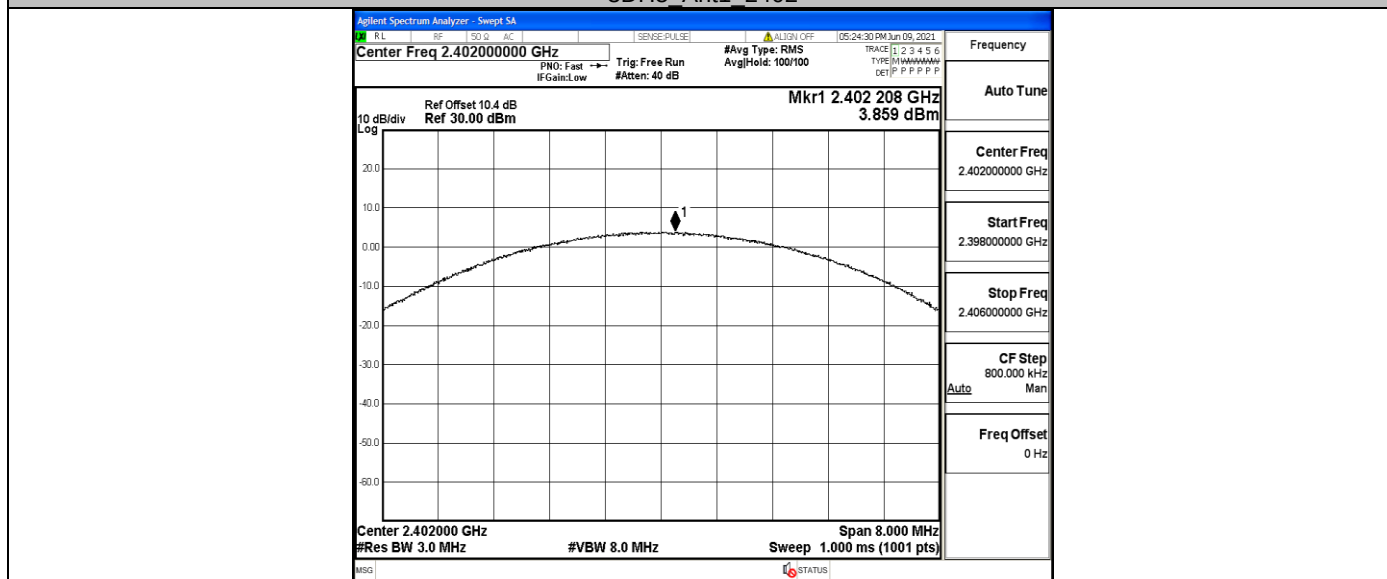
2DH5_Ant1_2441



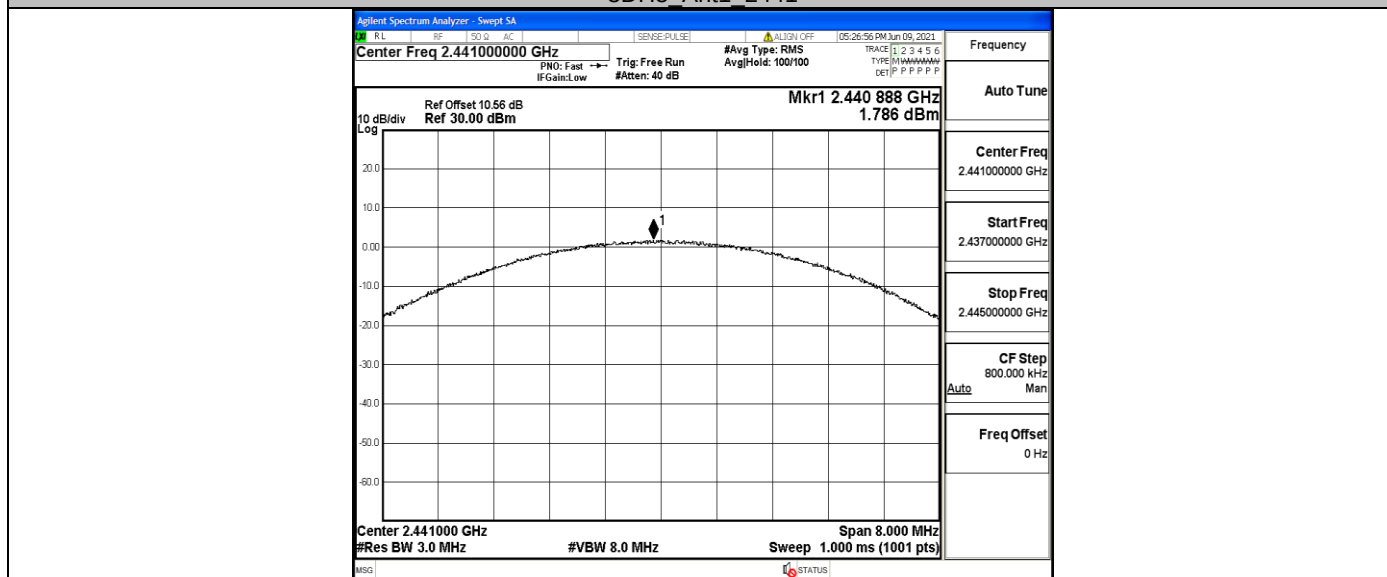
2DH5_Ant1_2480



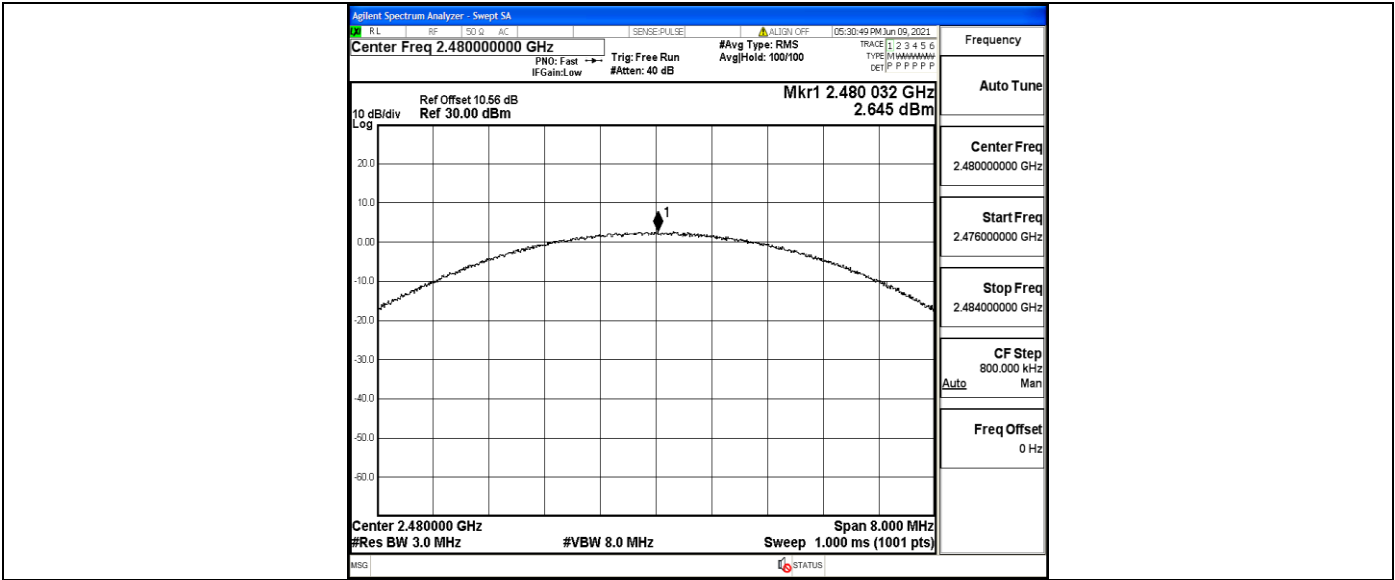
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

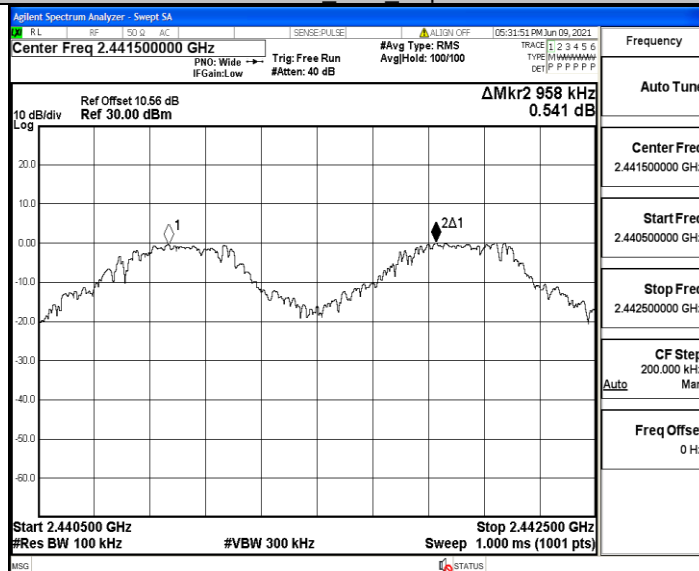


Appendix D: Carrier frequency separation Test Result

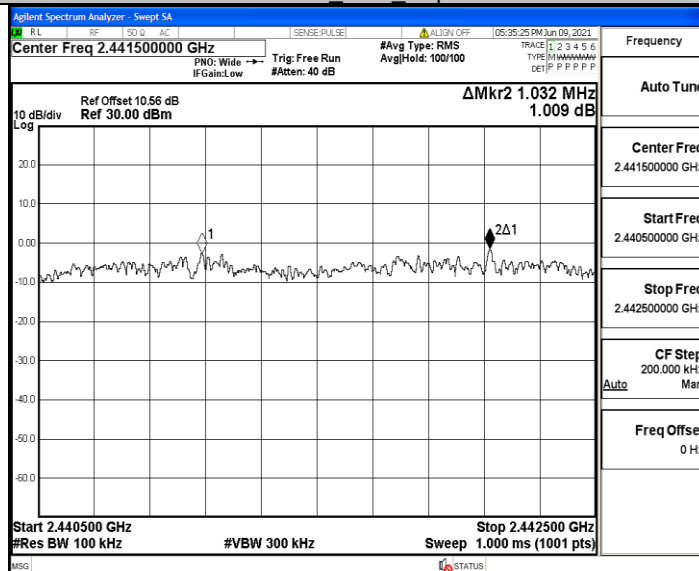
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.958	≥ 0.945	PASS
2DH5	Ant1	Hop	1.032	≥ 0.878	PASS
3DH5	Ant1	Hop	1.11	≥ 0.862	PASS

Test Graphs

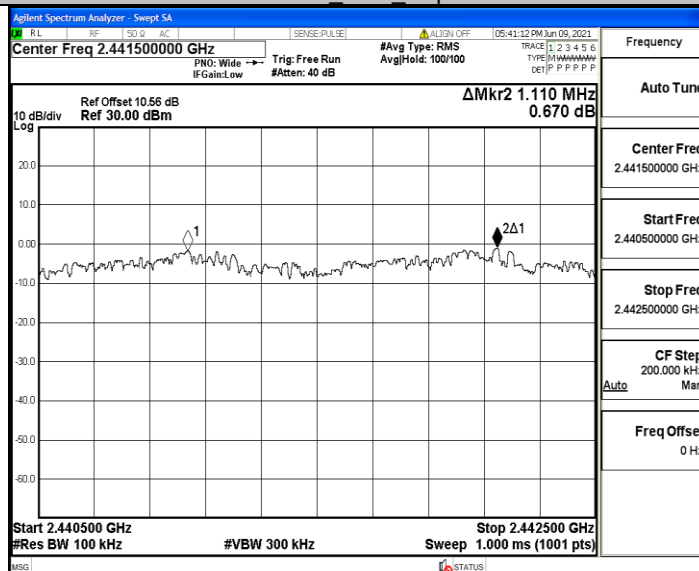
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



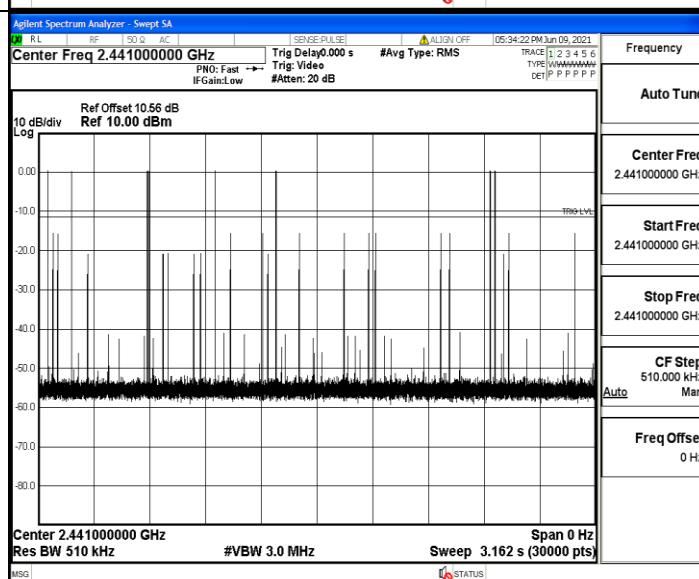
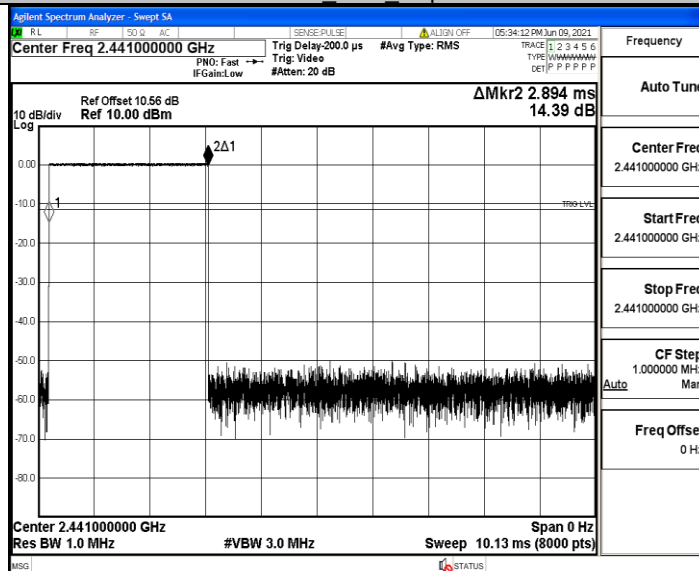
Appendix E: Time of occupancy

Test Result

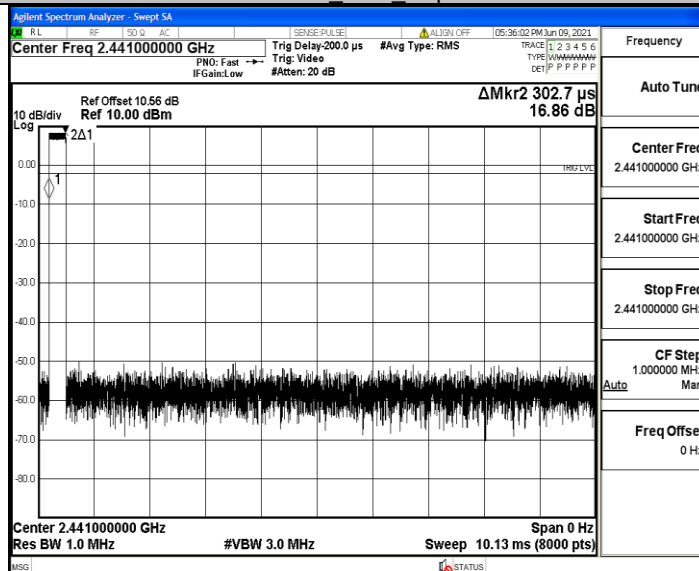
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	90	0.26	≤ 0.4	PASS
2DH5	Ant1	Hop	0.30	110	0.033	≤ 0.4	PASS
3DH5	Ant1	Hop	2.88	80	0.231	≤ 0.4	PASS

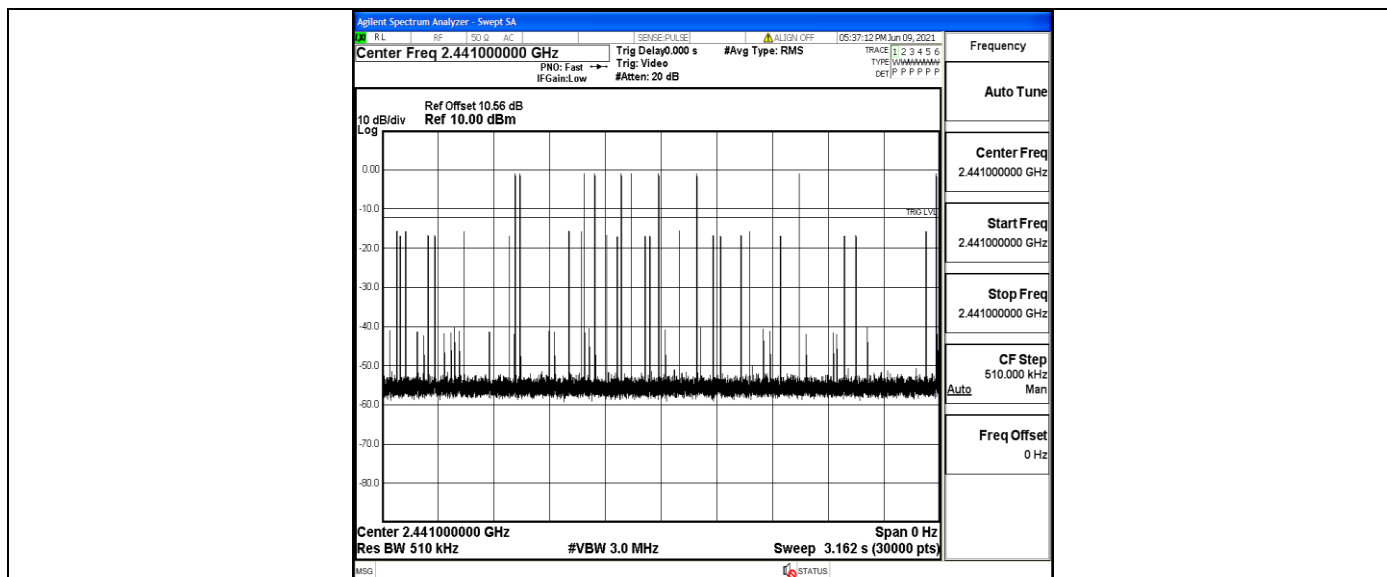
Test Graphs

DH5_Ant1_Hop

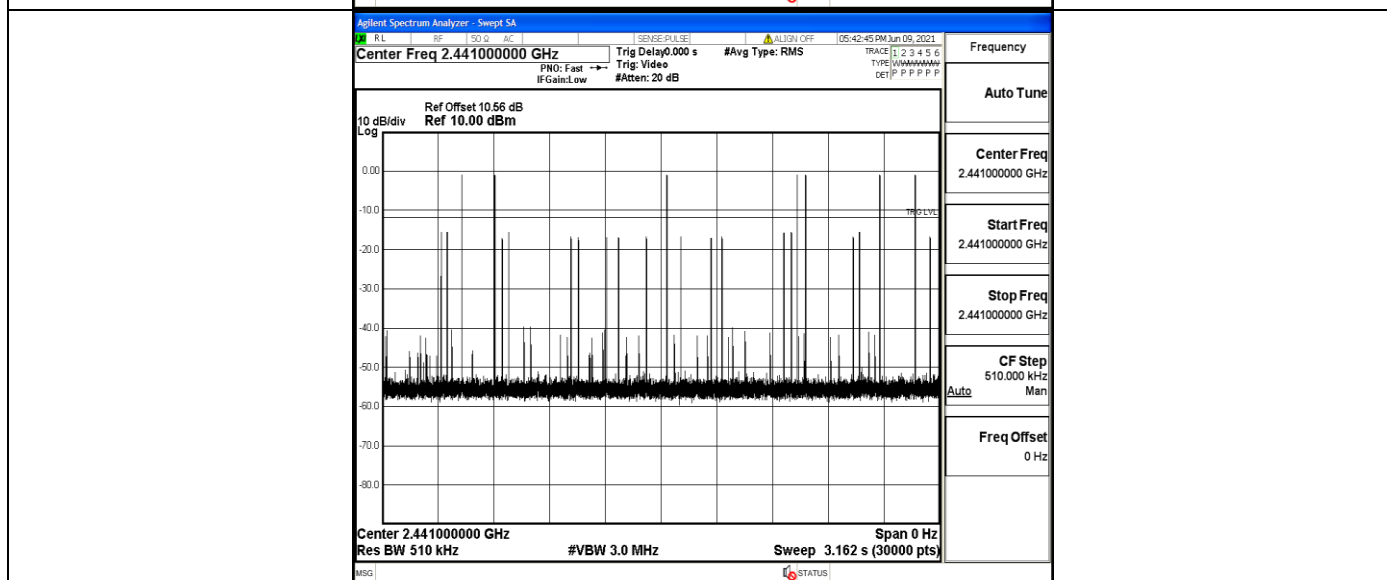
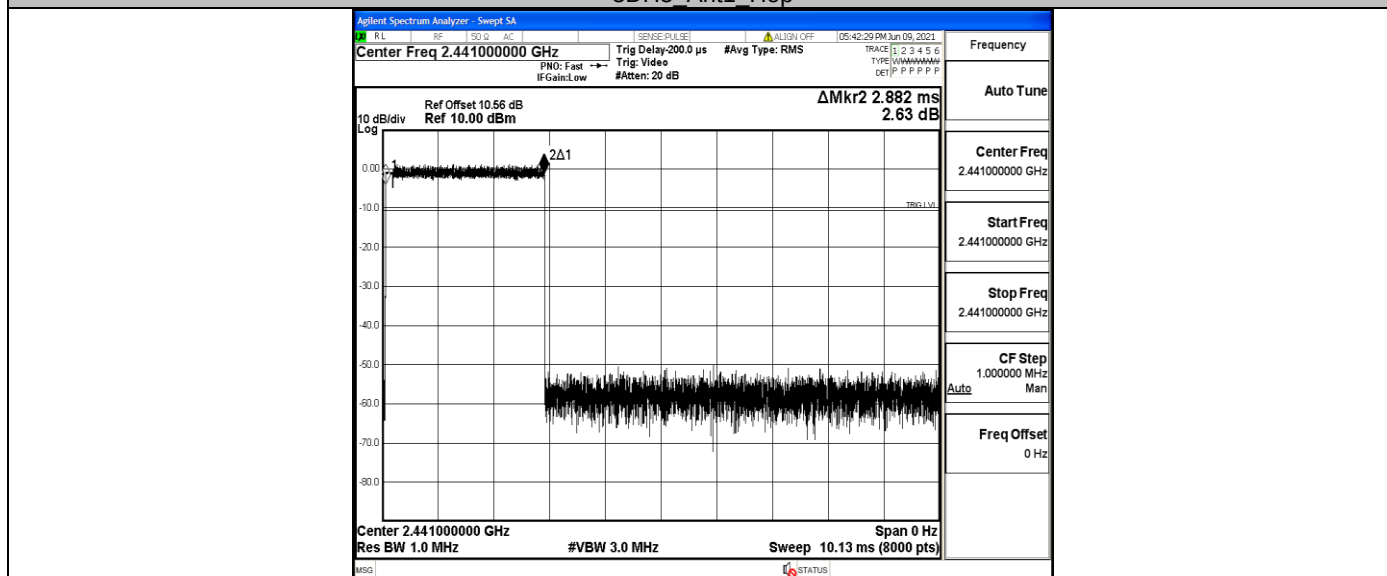


2DH5_Ant1_Hop





3DH5 Ant1_Hop

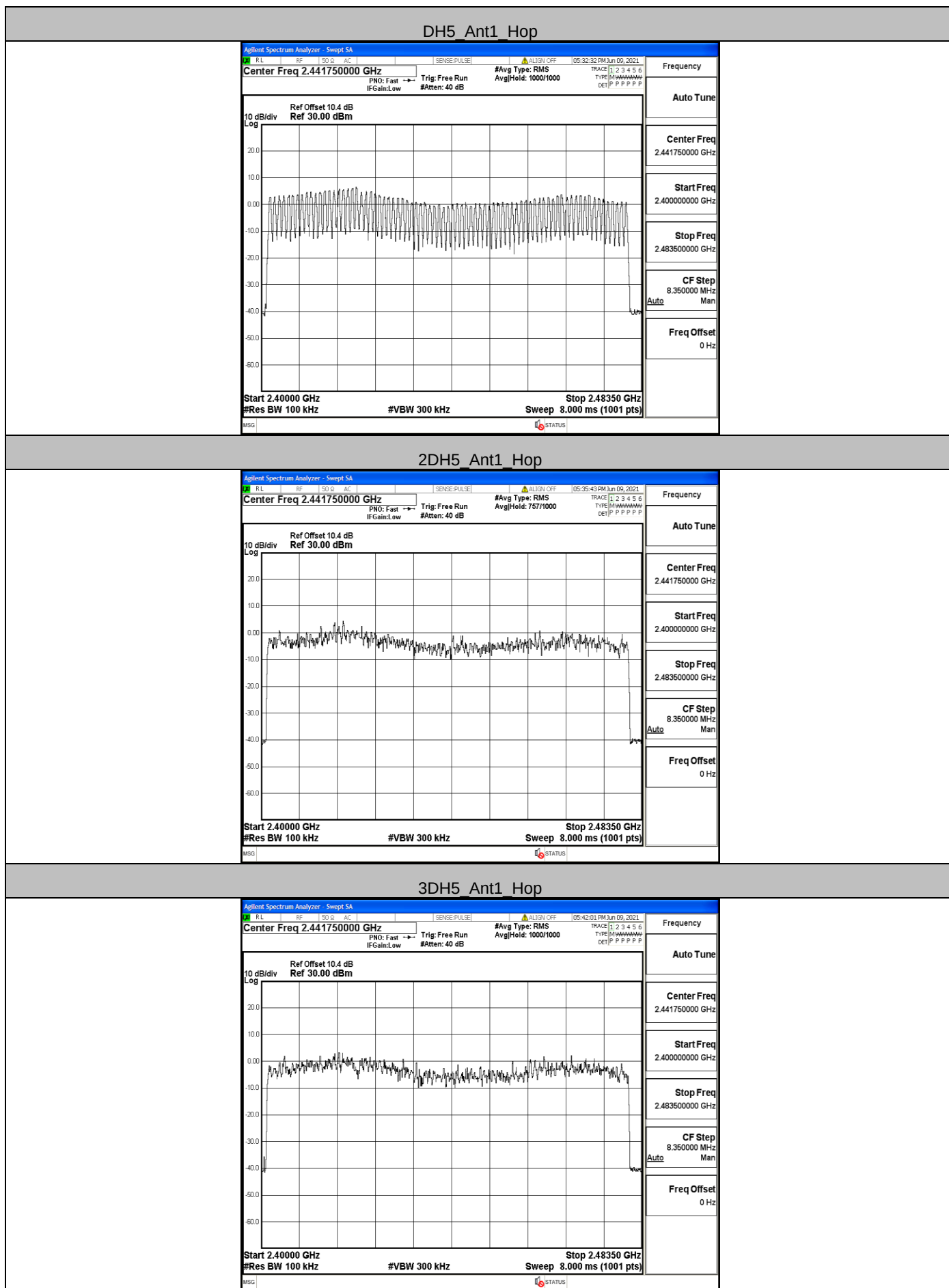


Appendix F: Number of hopping channels

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



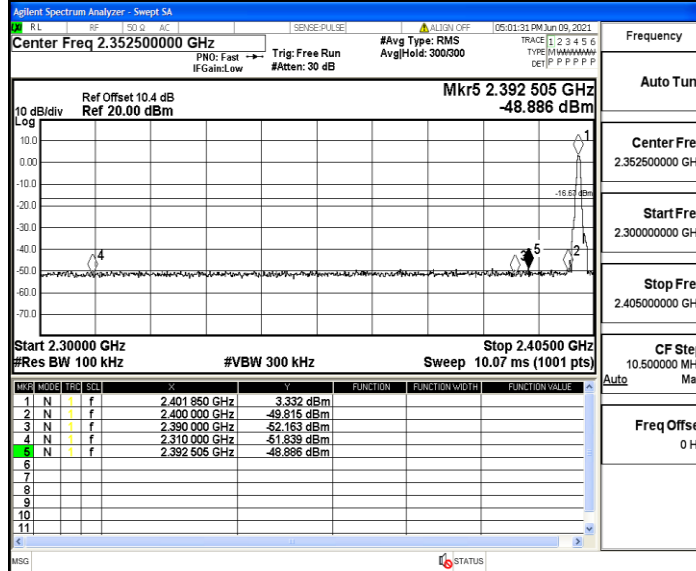
Appendix G: Band edge measurements

Test Result

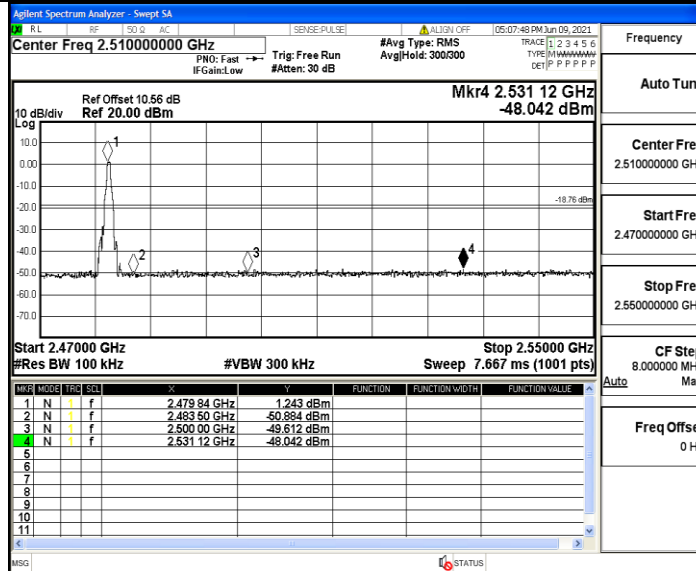
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.33	-48.89	<=-16.67	PASS
		High	2480	1.24	-48.04	<=-18.76	PASS
		Low	Hop_2402	2.68	-49.16	<=-17.32	PASS
		High	Hop_2480	3.46	-47.5	<=-16.54	PASS
2DH5	Ant1	Low	2402	1.32	-48.01	<=-18.68	PASS
		High	2480	-0.88	-47.69	<=-20.88	PASS
		Low	Hop_2402	-2.01	-48.77	<=-22.01	PASS
		High	Hop_2480	-0.51	-47.81	<=-20.51	PASS
3DH5	Ant1	Low	2402	1.12	-48.56	<=-18.88	PASS
		High	2480	-0.10	-47.32	<=-20.1	PASS
		Low	Hop_2402	-1.41	-49.27	<=-21.41	PASS
		High	Hop_2480	-0.31	-47.46	<=-20.31	PASS

Test Graphs

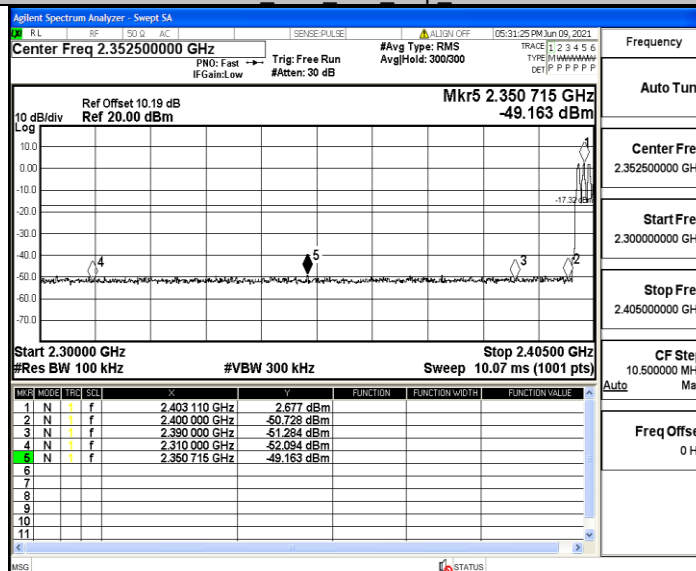
DH5_Ant1_Low_2402



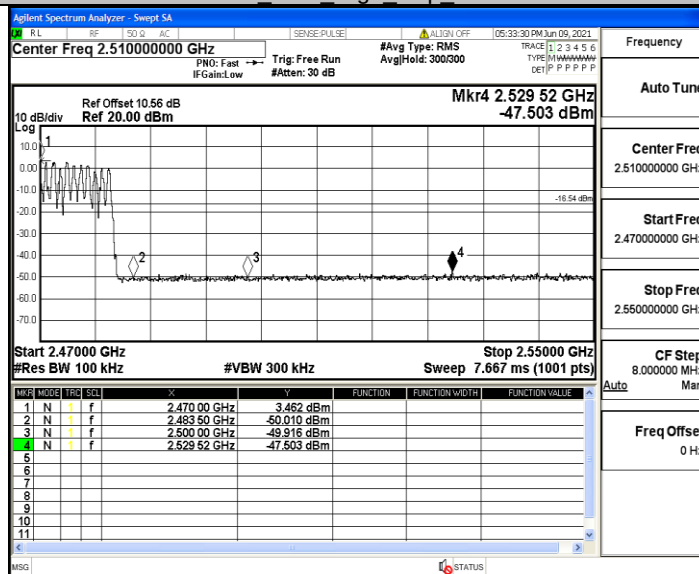
DH5_Ant1_High_2480



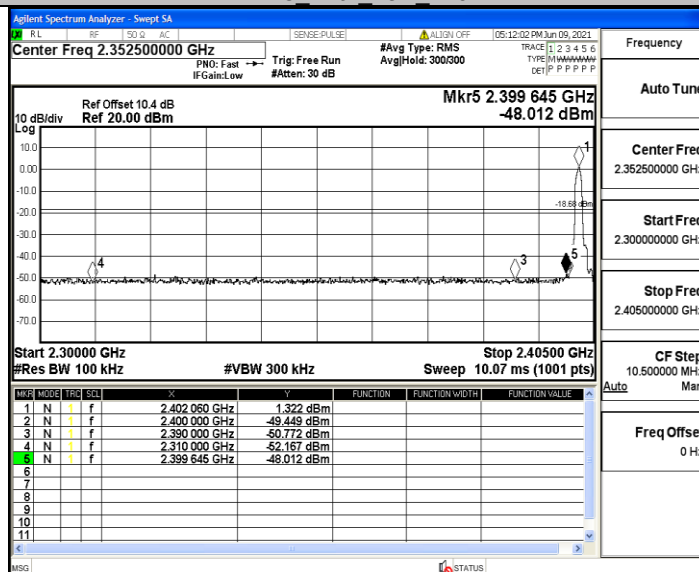
DH5_Ant1_Low_Hop_2402



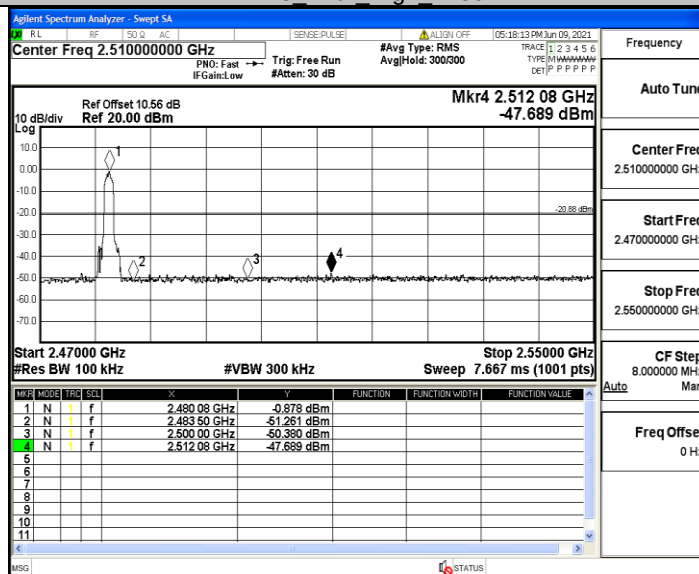
DH5 Ant1 High Hop 2480



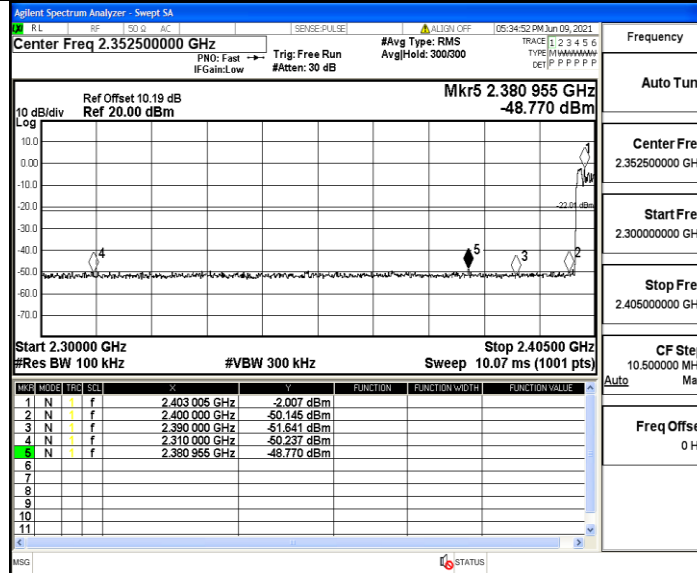
2DH5 Ant1 Low 2402



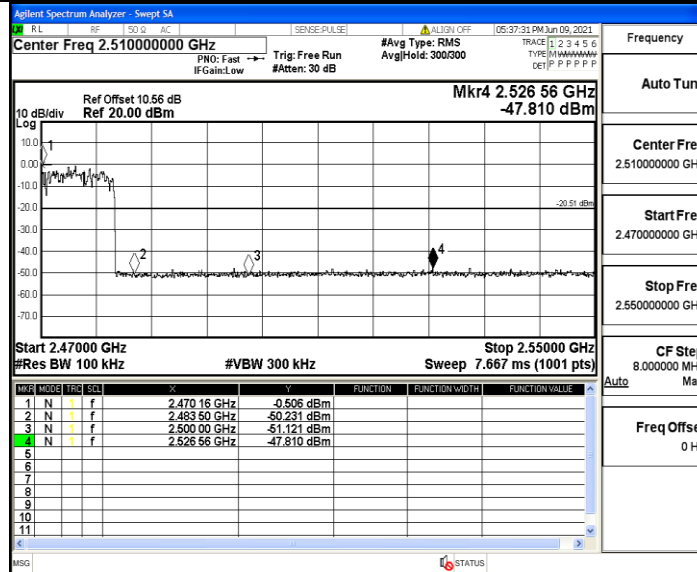
2DH5 Ant1 High 2480



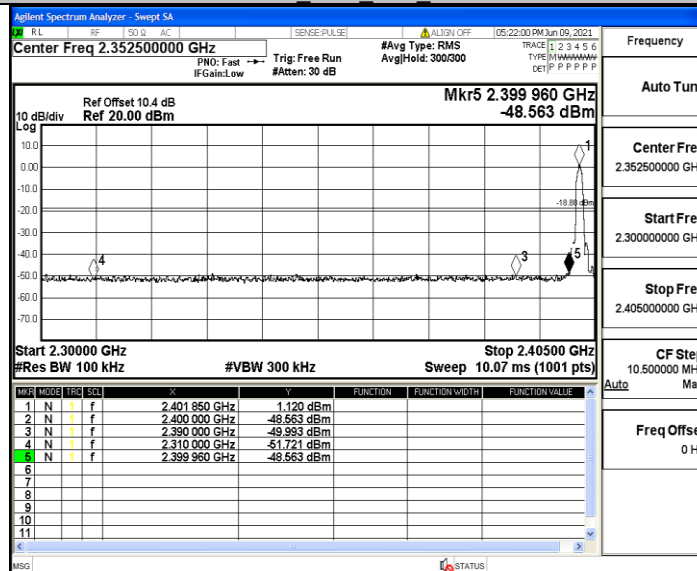
2DH5 Ant1 Low Hop 2402



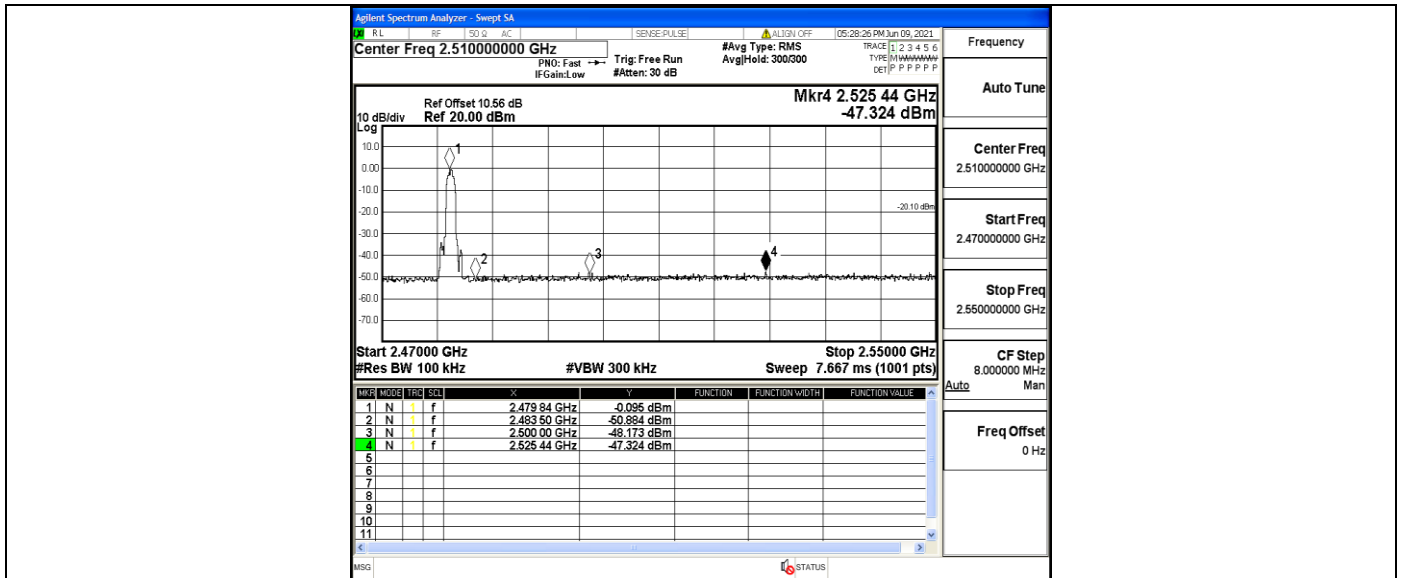
2DH5 Ant1 High Hop 2480



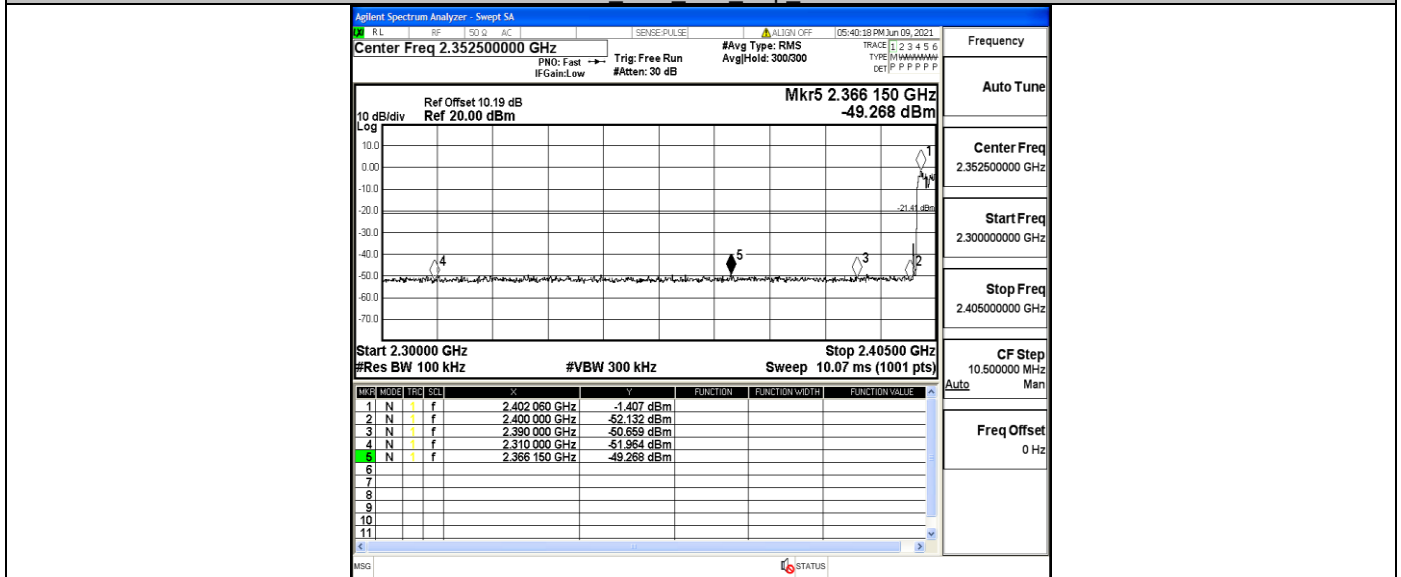
3DH5 Ant1 Low 2402



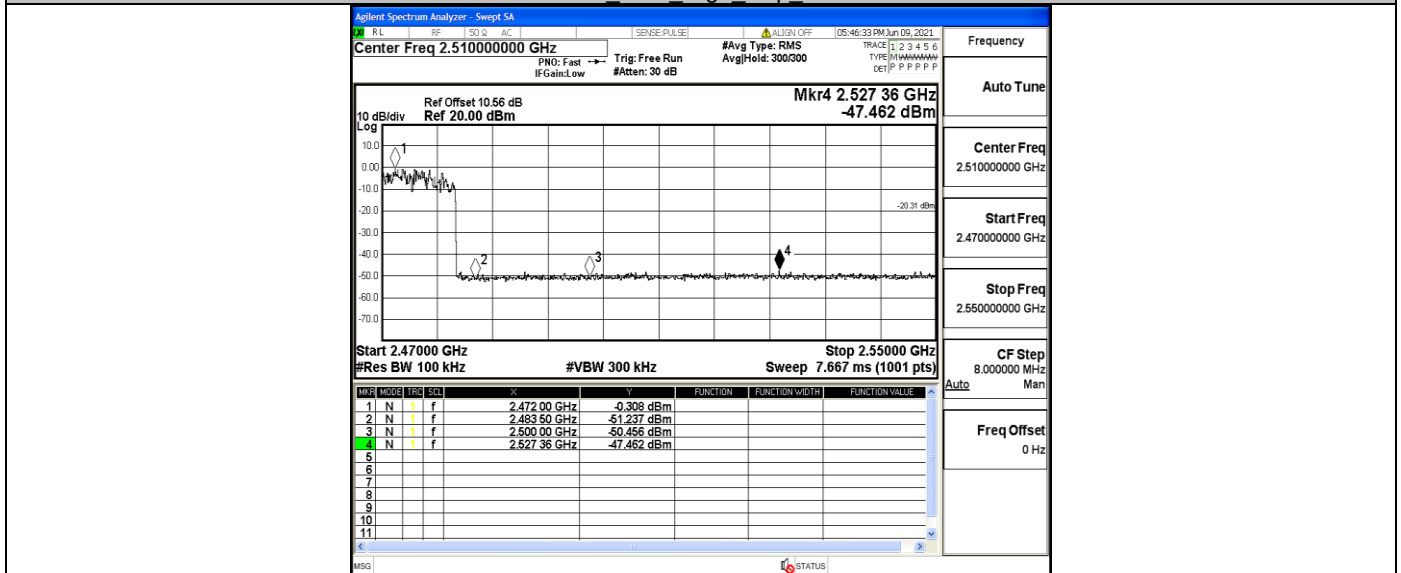
3DH5 Ant1 High 2480



3DH5 Ant1 Low Hop 2402



3DH5 Ant1 High Hop 2480



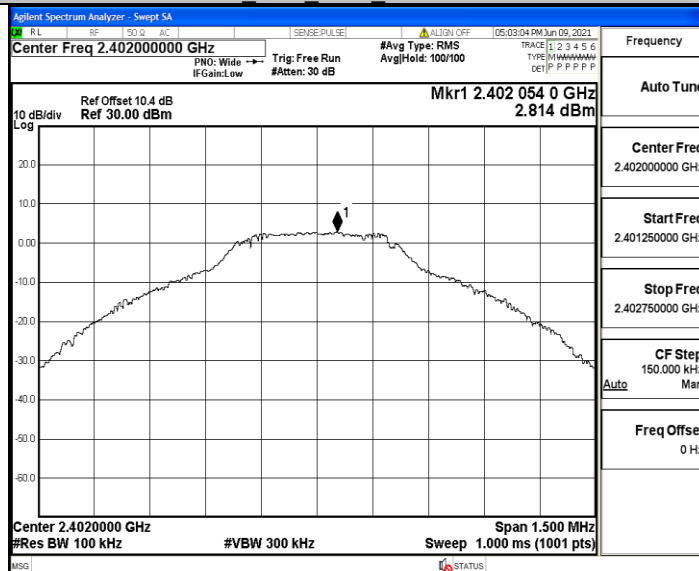
Appendix H: Conducted Spurious Emission

Test Result

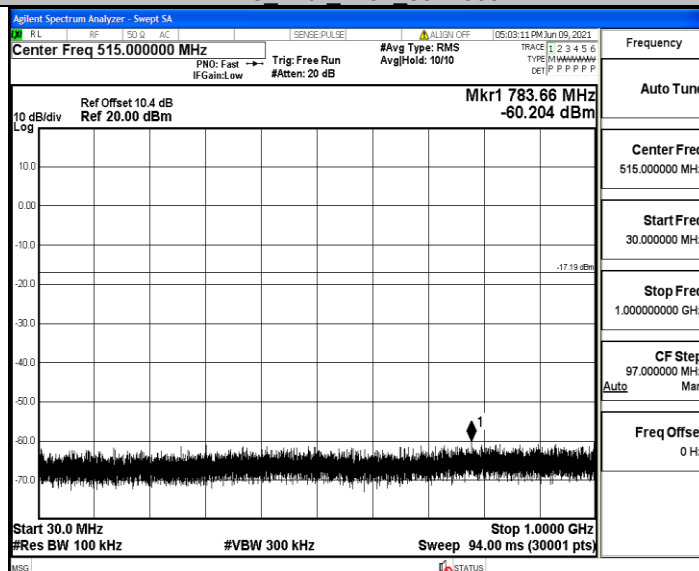
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.81	2.81	---	PASS
			30~1000	2.81	-60.2	<=-17.19	PASS
			1000~26500	2.81	-34.81	<=-17.19	PASS
		2441	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-59.7	<=-19.79	PASS
			1000~26500	0.21	-41.08	<=-19.79	PASS
		2480	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-59.71	<=-18.99	PASS
			1000~26500	1.01	-38.19	<=-18.99	PASS
2DH5	Ant1	2402	Reference	0.08	0.08	---	PASS
			30~1000	0.08	-59.84	<=-19.92	PASS
			1000~26500	0.08	-50.77	<=-19.92	PASS
		2441	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-58.83	<=-21.42	PASS
			1000~26500	-1.42	-50.02	<=-21.42	PASS
		2480	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-58.33	<=-20.58	PASS
			1000~26500	-0.58	-50.04	<=-20.58	PASS
3DH5	Ant1	2402	Reference	1.26	1.26	---	PASS
			30~1000	1.26	-59.29	<=-18.74	PASS
			1000~26500	1.26	-51.14	<=-18.74	PASS
		2441	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-59.84	<=-20.94	PASS
			1000~26500	-0.94	-49.84	<=-20.94	PASS
		2480	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-60.06	<=-20.77	PASS
			1000~26500	-0.77	-50.57	<=-20.77	PASS

Test Graphs

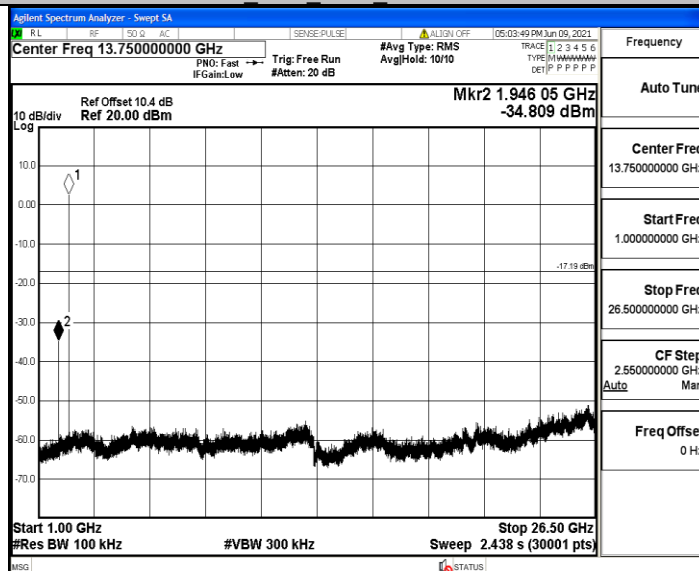
DH5_Ant1_2402_0-Reference



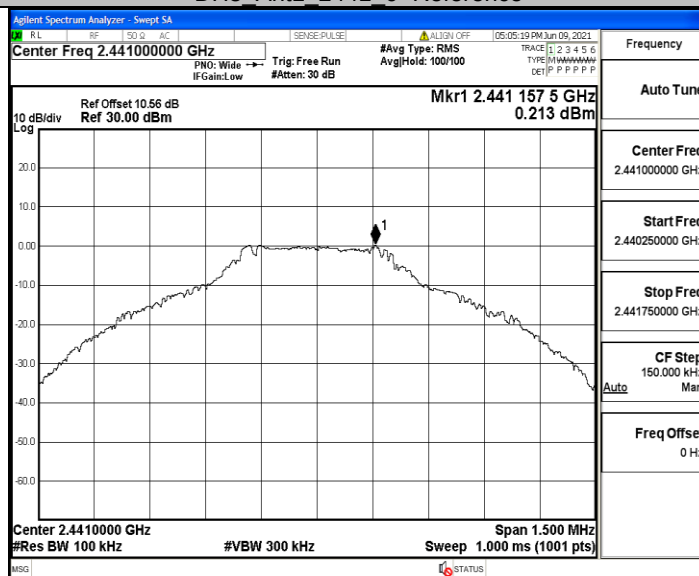
DH5_Ant1_2402_30~1000



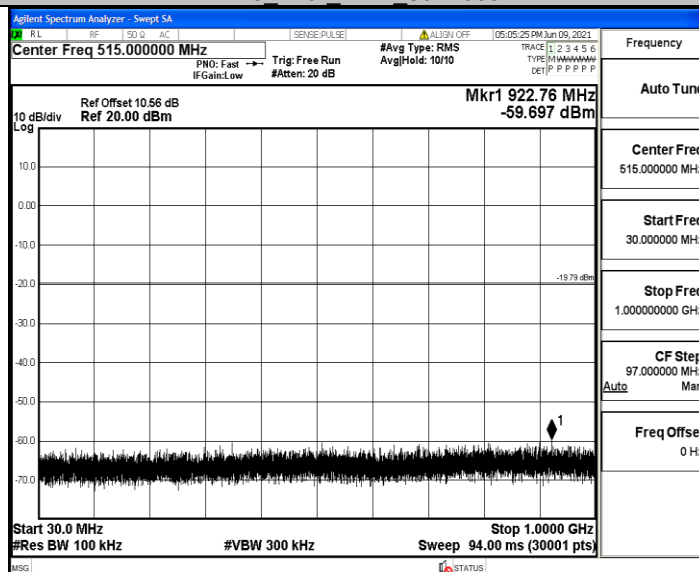
DH5_Ant1_2402_1000~26500



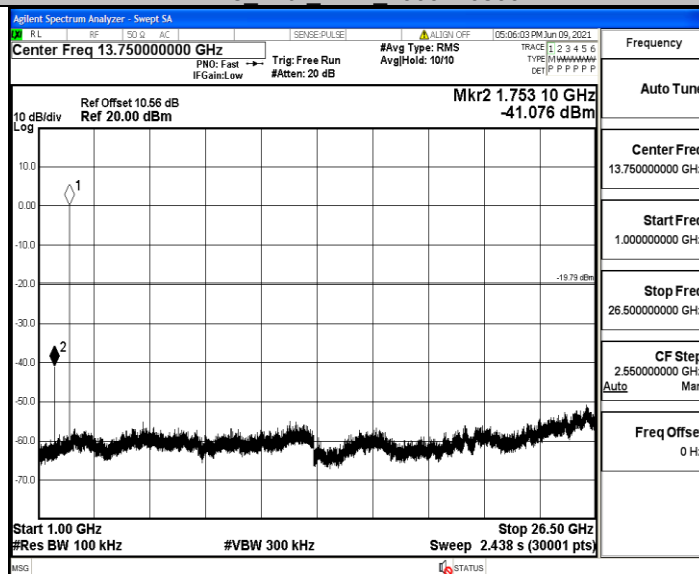
DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0-Reference