

Appendix A

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

Product Name: Feature phone

Trade Mark: Sunelan

Test Model: S3

FCC ID: 2A2AJ-S3

Environmental Conditions

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

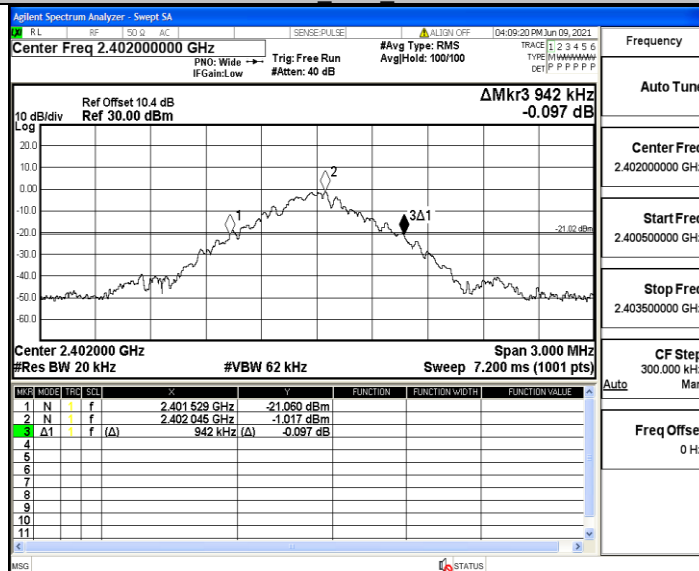
Appendix A: 20dB Emission Bandwidth

Test Result

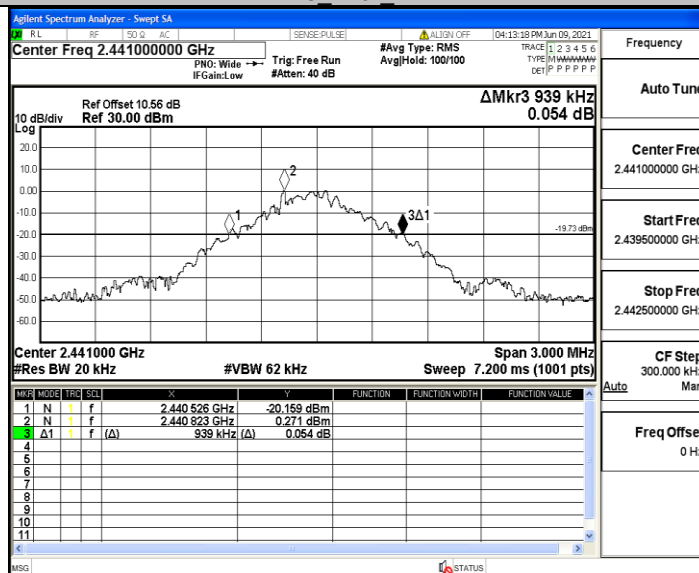
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.529	2402.471	---	PASS
		2441	0.939	2440.526	2441.465	---	PASS
		2480	0.930	2479.535	2480.465	---	PASS
2DH5	Ant1	2402	1.284	2401.352	2402.636	---	PASS
		2441	1.320	2440.328	2441.648	---	PASS
		2480	1.275	2479.346	2480.621	---	PASS
3DH5	Ant1	2402	1.296	2401.337	2402.633	---	PASS
		2441	1.293	2440.337	2441.630	---	PASS
		2480	1.278	2479.343	2480.621	---	PASS

Test Graphs

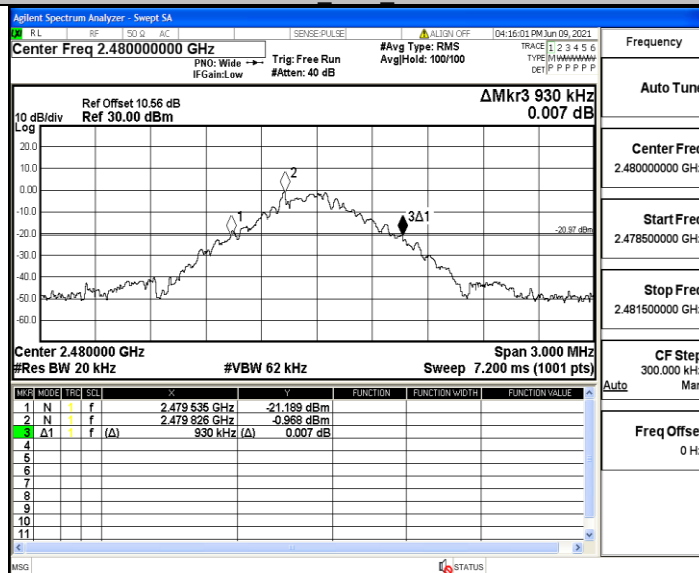
DH5_Ant1_2402



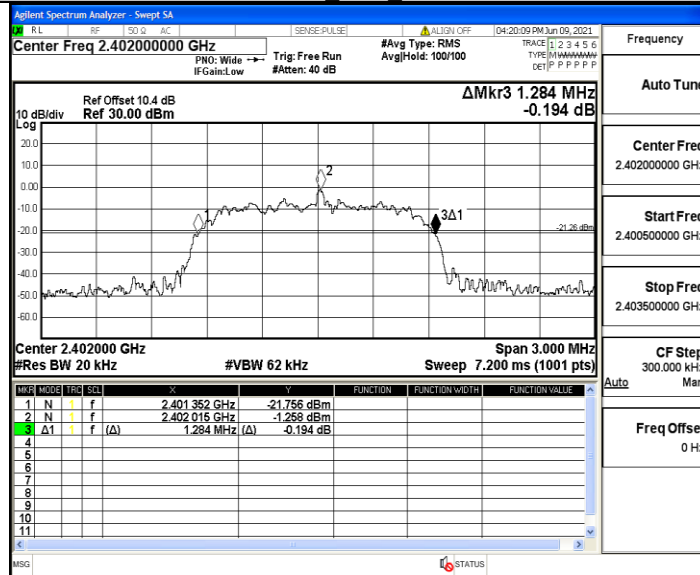
DH5_Ant1_2441



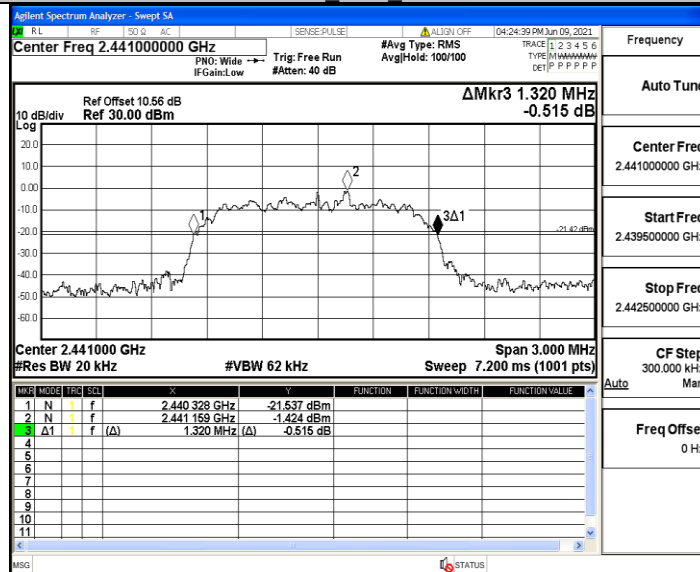
DH5_Ant1_2480



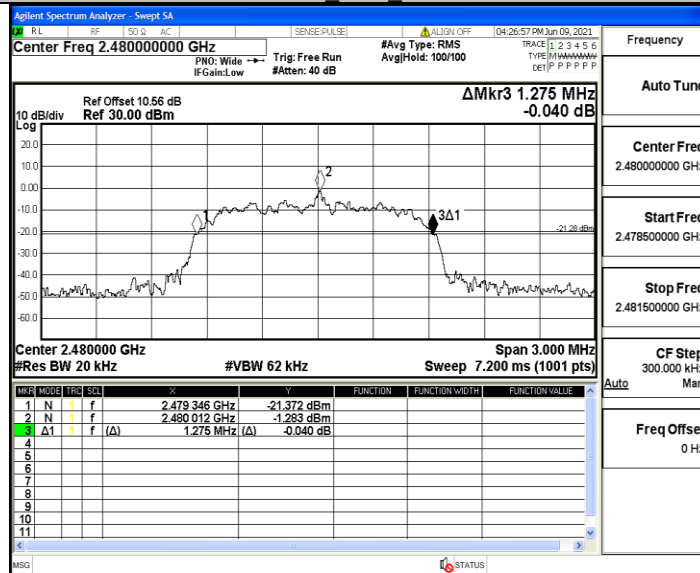
2DH5_Ant1_2402



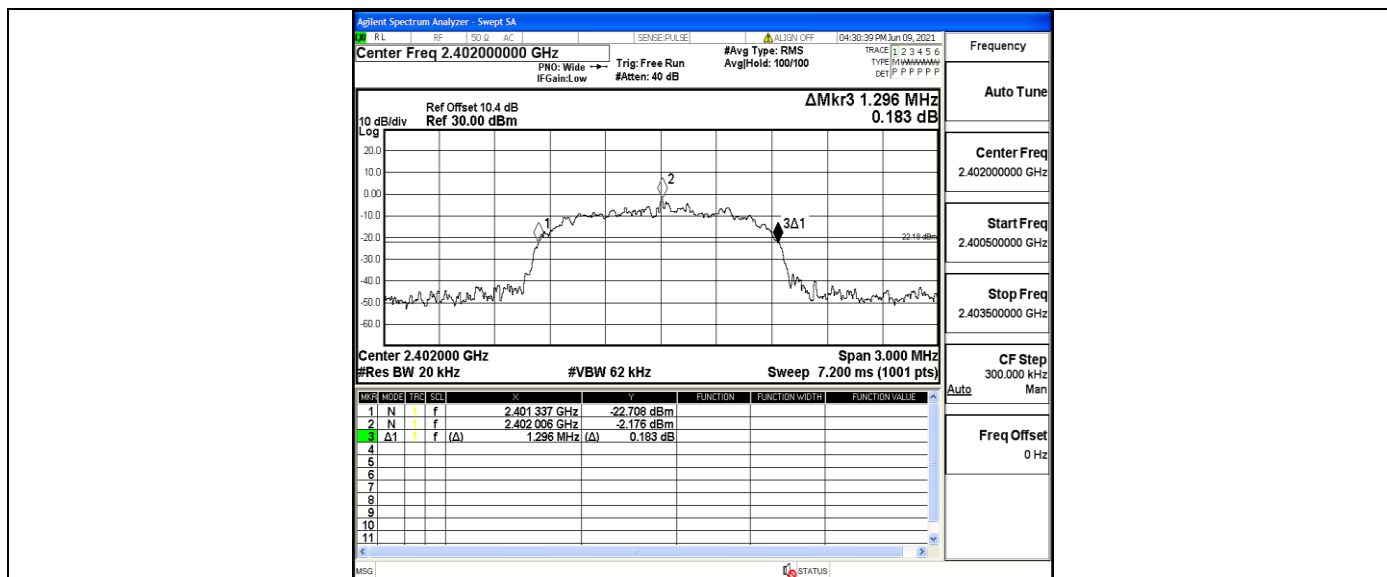
2DH5_Ant1_2441



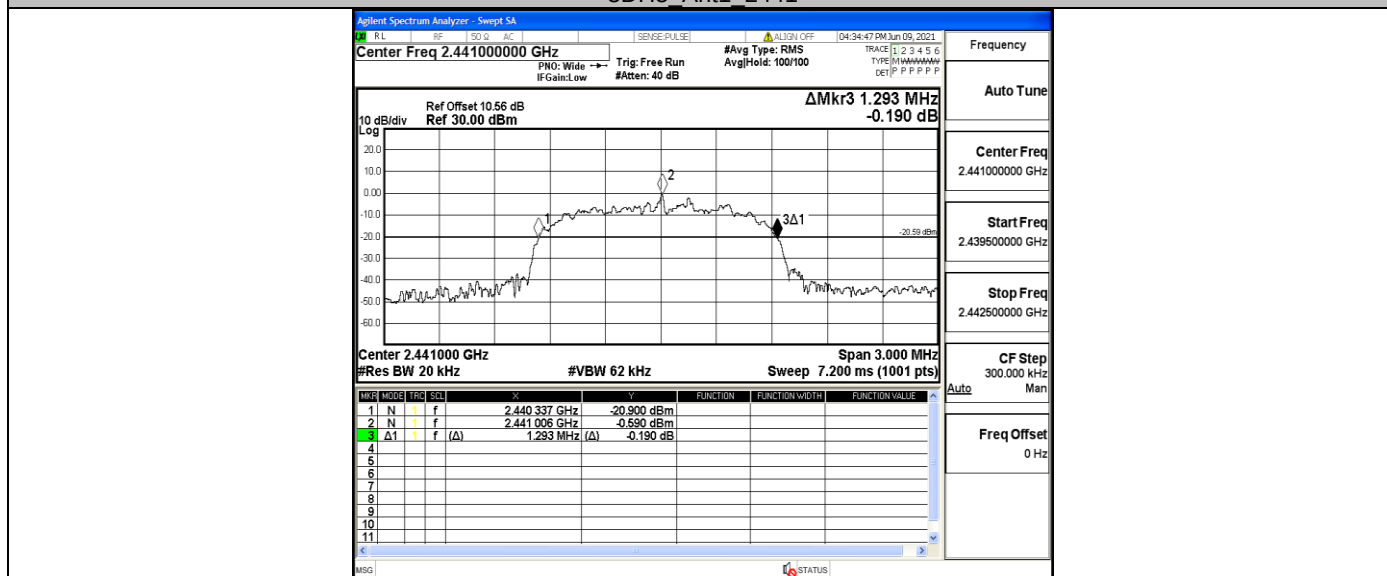
2DH5_Ant1_2480



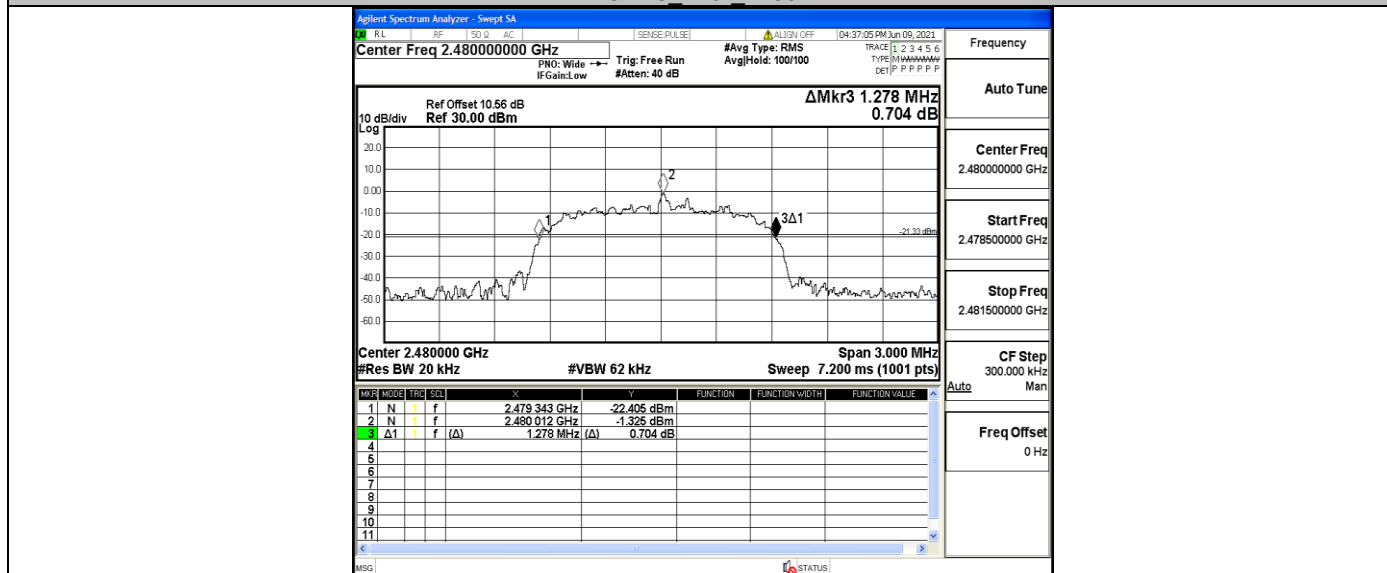
3DH5_Ant1_2402



3DH5 Ant1_2441



3DH5 Ant1_2480



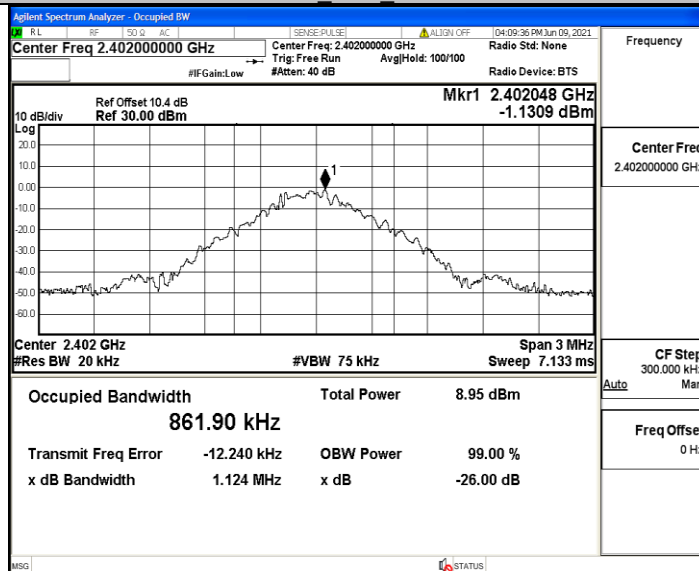
Appendix B: Occupied Channel Bandwidth

Test Result

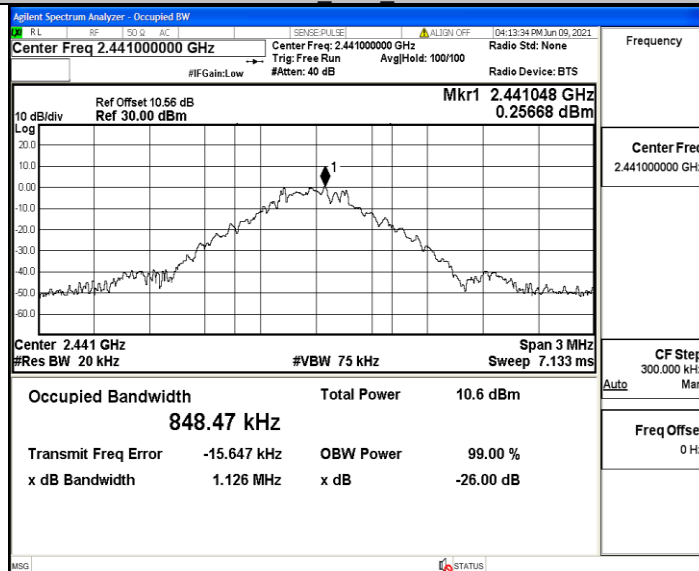
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86190	2401.557	2402.419	---	PASS
		2441	0.84847	2440.560	2441.409	---	PASS
		2480	0.86064	2479.552	2480.413	---	PASS
2DH5	Ant1	2402	1.1884	2401.397	2402.585	---	PASS
		2441	1.1872	2440.394	2441.581	---	PASS
		2480	1.1890	2479.393	2480.582	---	PASS
3DH5	Ant1	2402	1.1944	2401.388	2402.582	---	PASS
		2441	1.1924	2440.385	2441.578	---	PASS
		2480	1.1980	2479.381	2480.579	---	PASS

Test Graphs

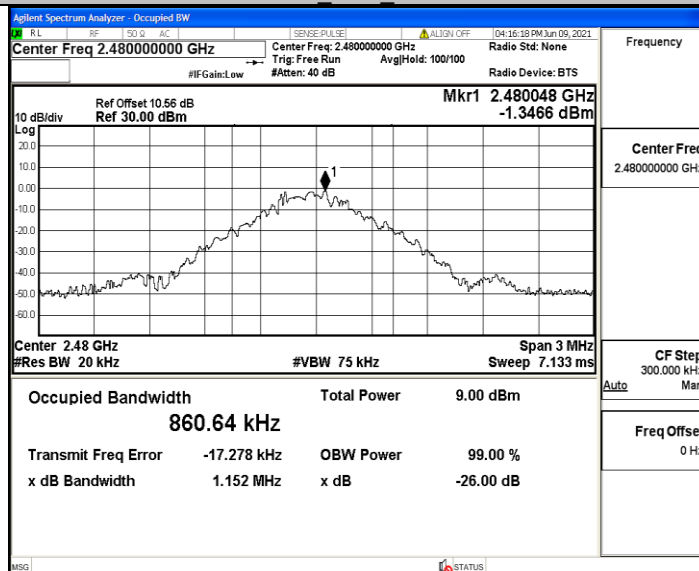
DH5_Ant1_2402



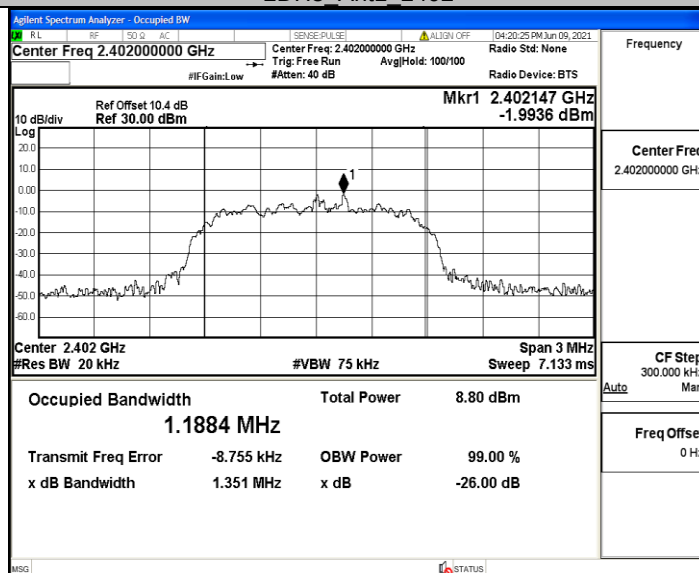
DH5_Ant1_2441



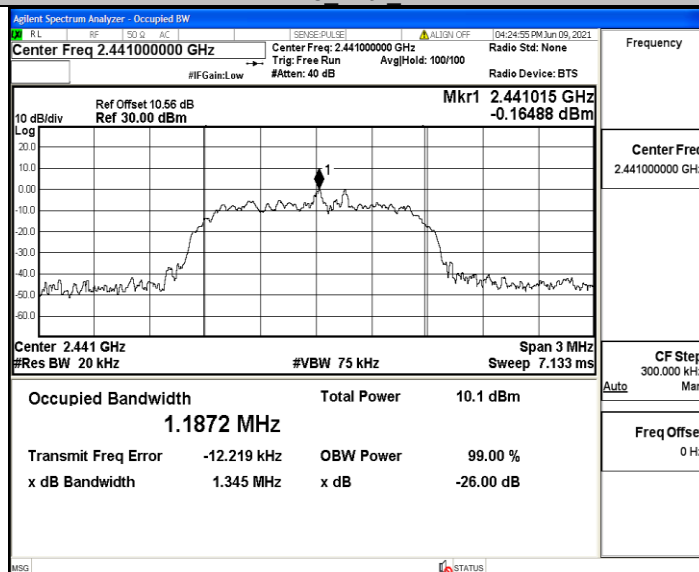
DH5_Ant1_2480



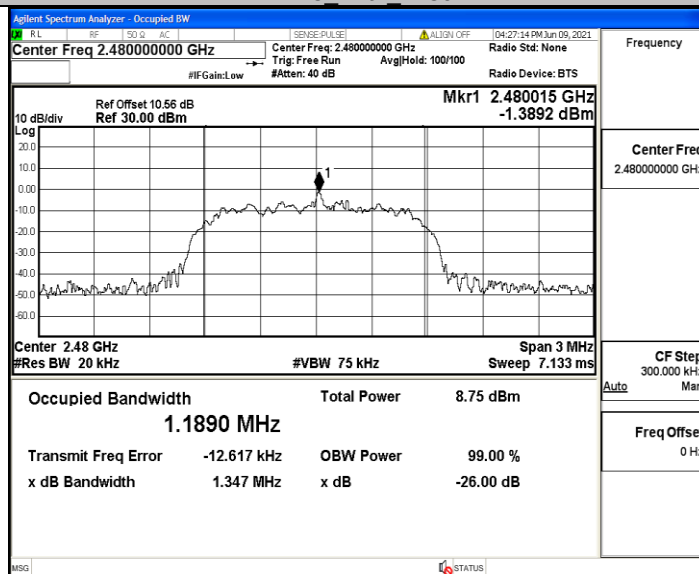
2DH5_Ant1_2402



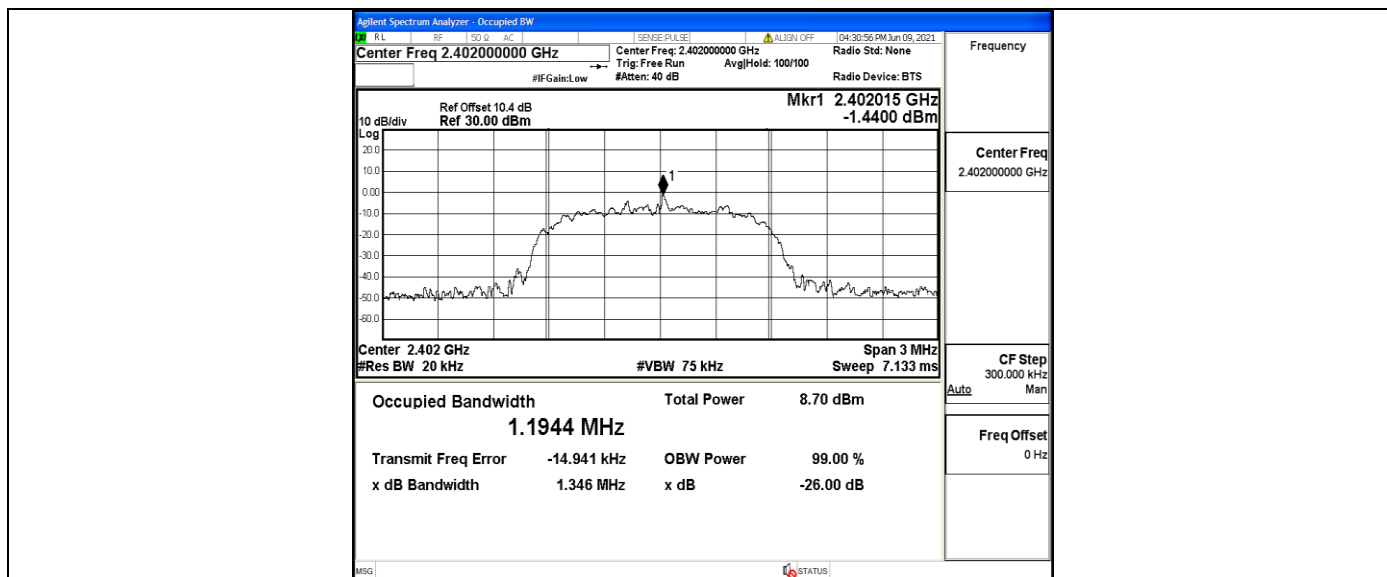
2DH5_Ant1_2441



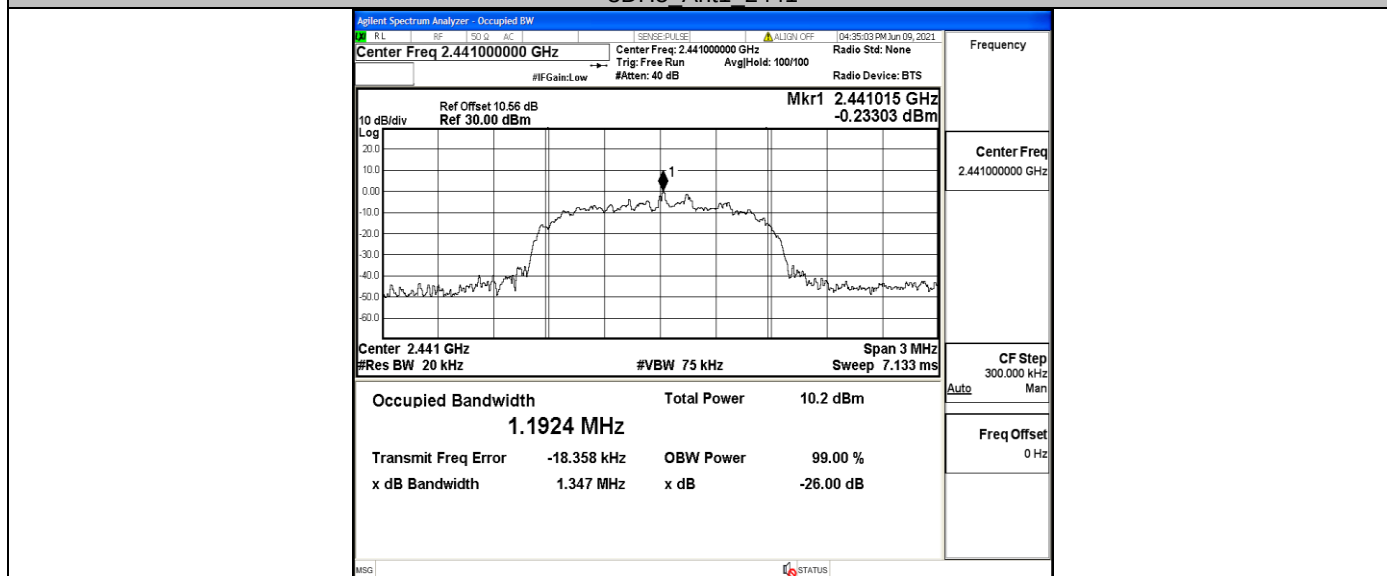
2DH5_Ant1_2480



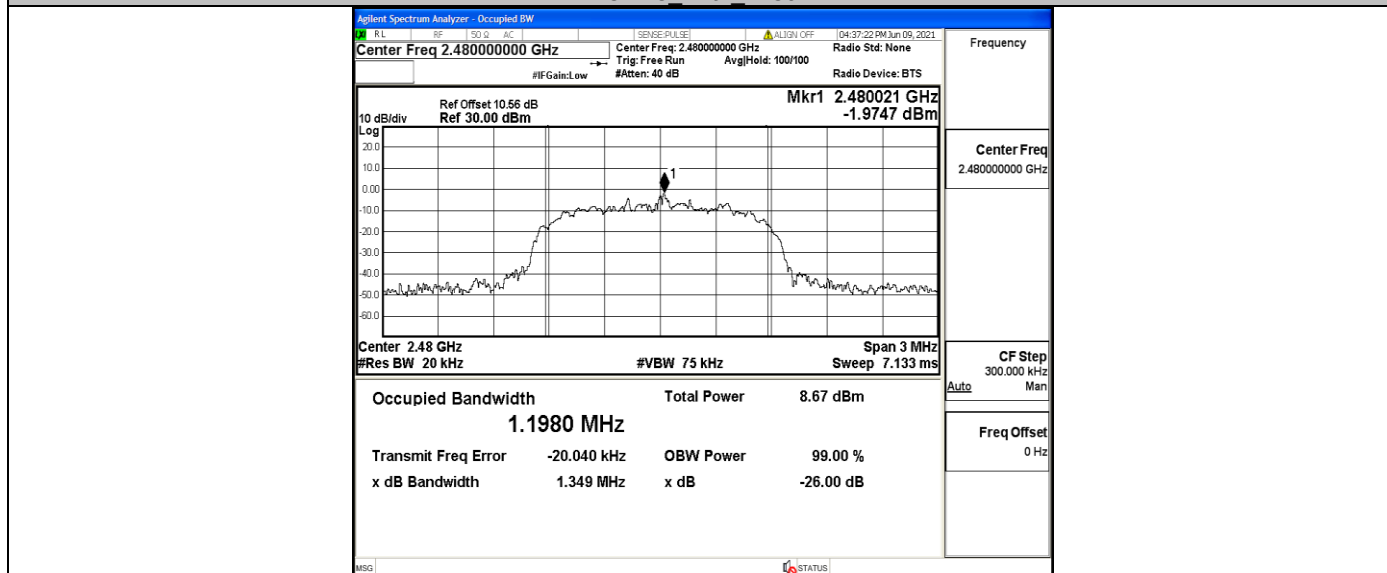
3DH5_Ant1_2402



3DH5 Ant1 2441



3DH5 Ant1 2480

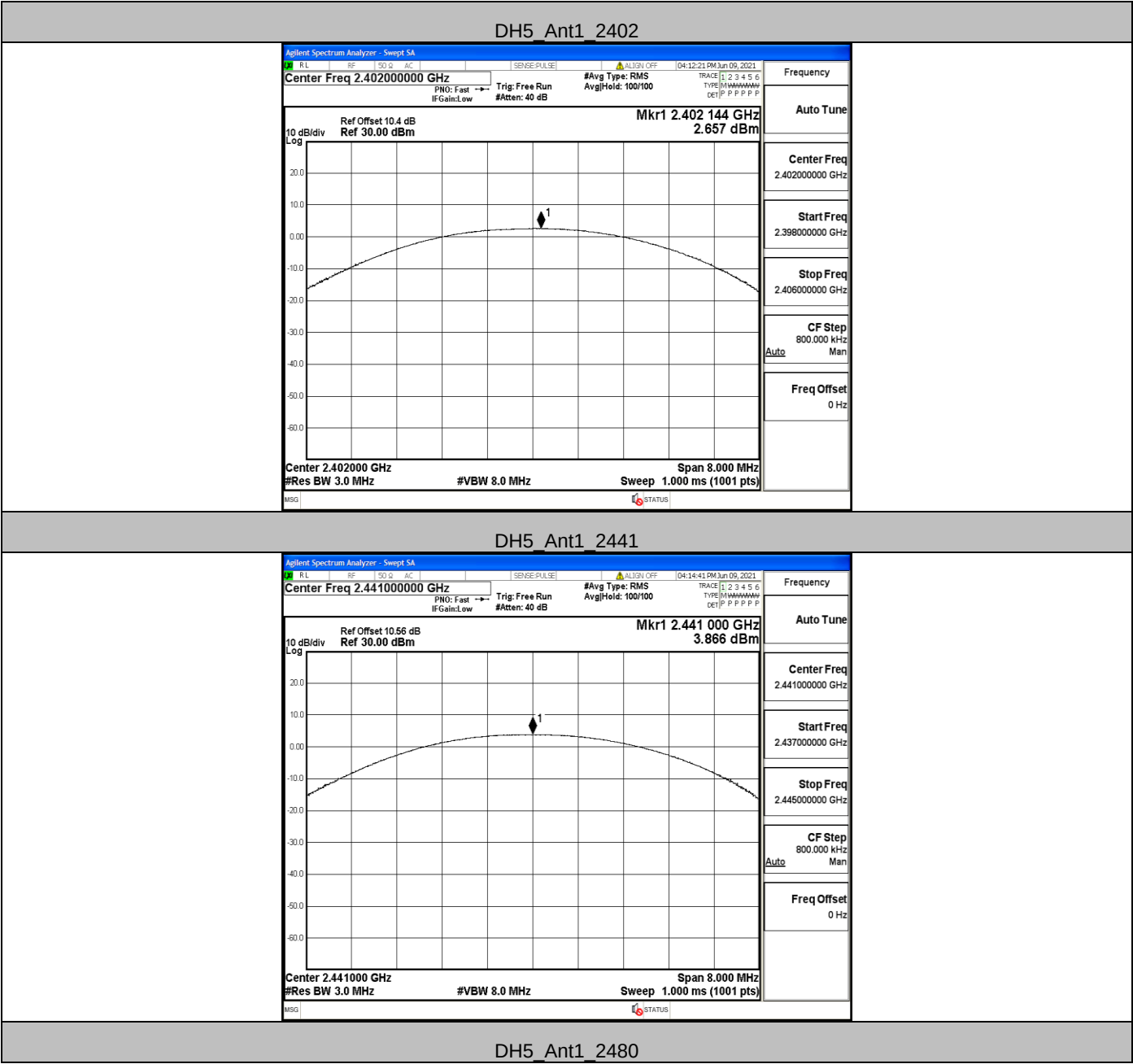


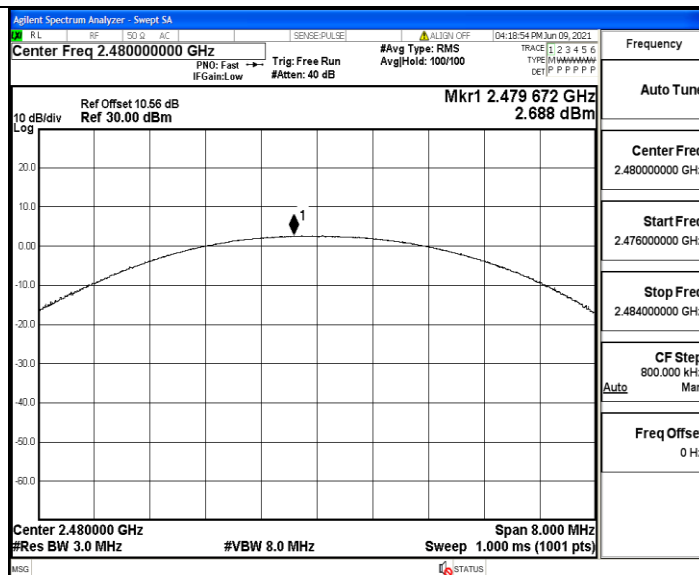
Appendix C: Maximum conducted output power

Test Result

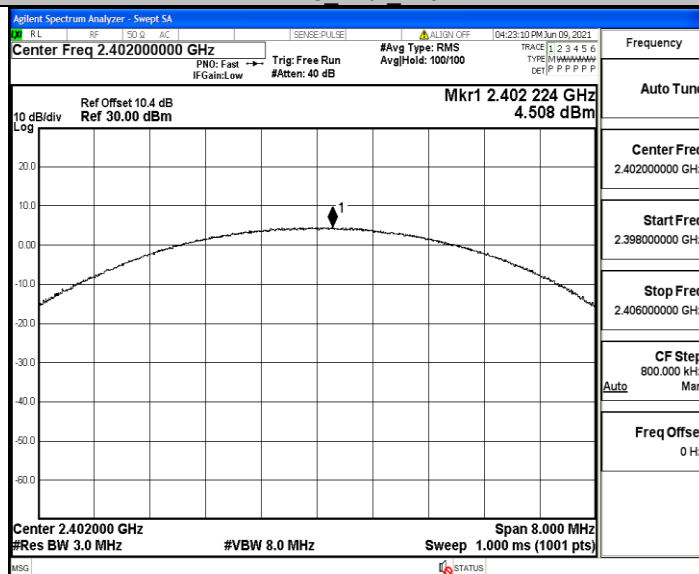
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.66	<=20.97	PASS
		2441	3.87	<=20.97	PASS
		2480	2.69	<=20.97	PASS
2DH5	Ant1	2402	4.51	<=20.97	PASS
		2441	5.82	<=20.97	PASS
		2480	4.46	<=20.97	PASS
3DH5	Ant1	2402	4.97	<=20.97	PASS
		2441	6.33	<=20.97	PASS
		2480	4.96	<=20.97	PASS

Test Graphs

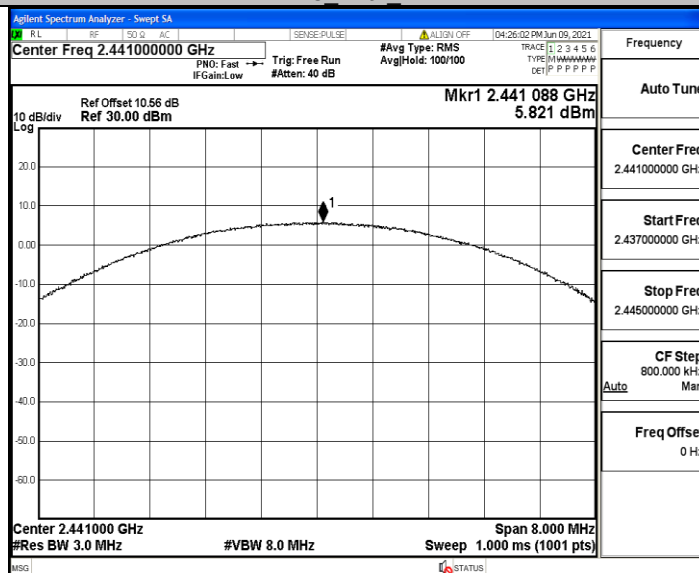




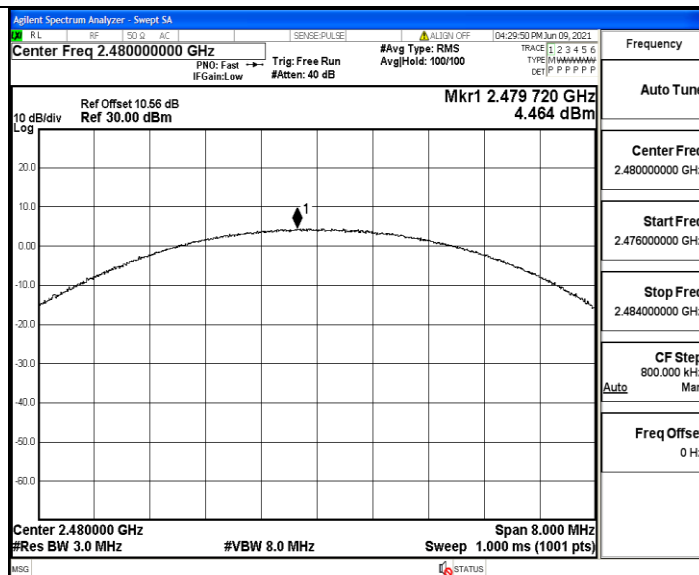
2DH5_Ant1_2402



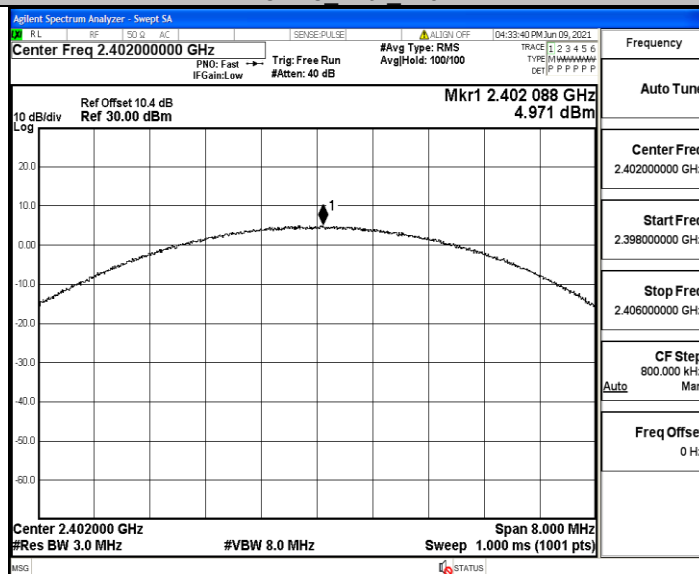
2DH5_Ant1_2441



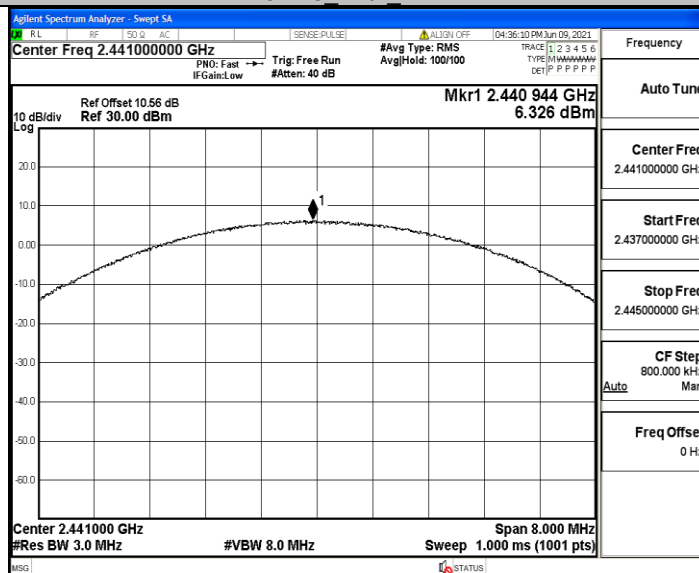
2DH5_Ant1_2480



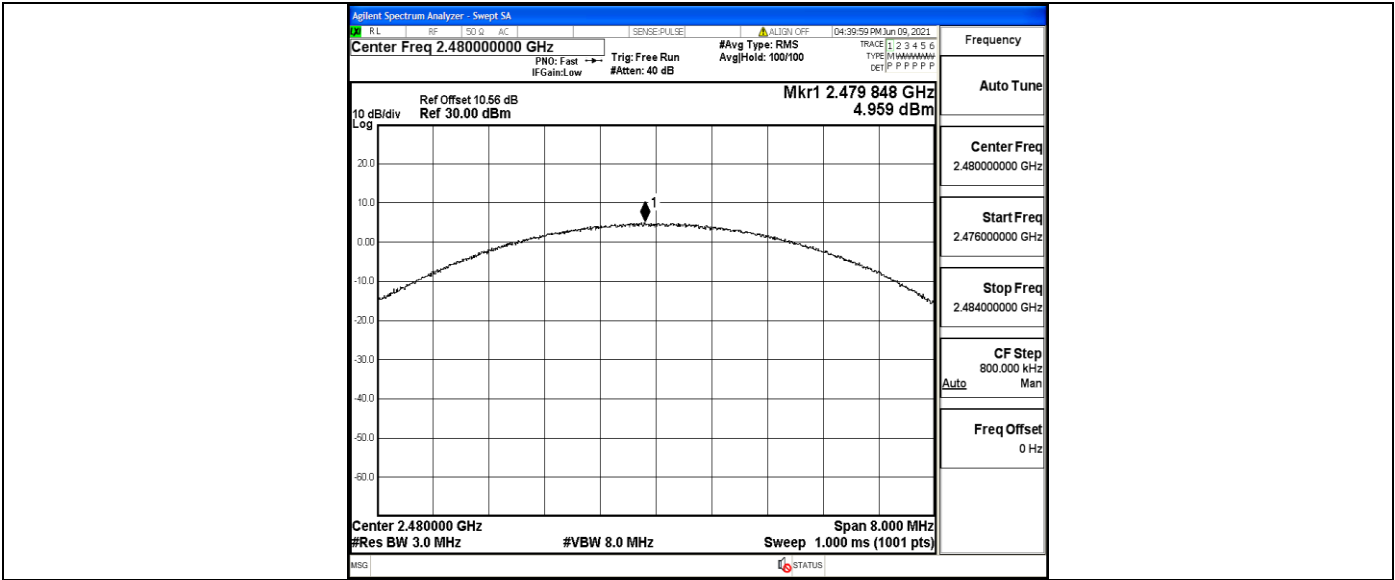
3DH5_Ant1_2402



3DH5_Ant1_2441



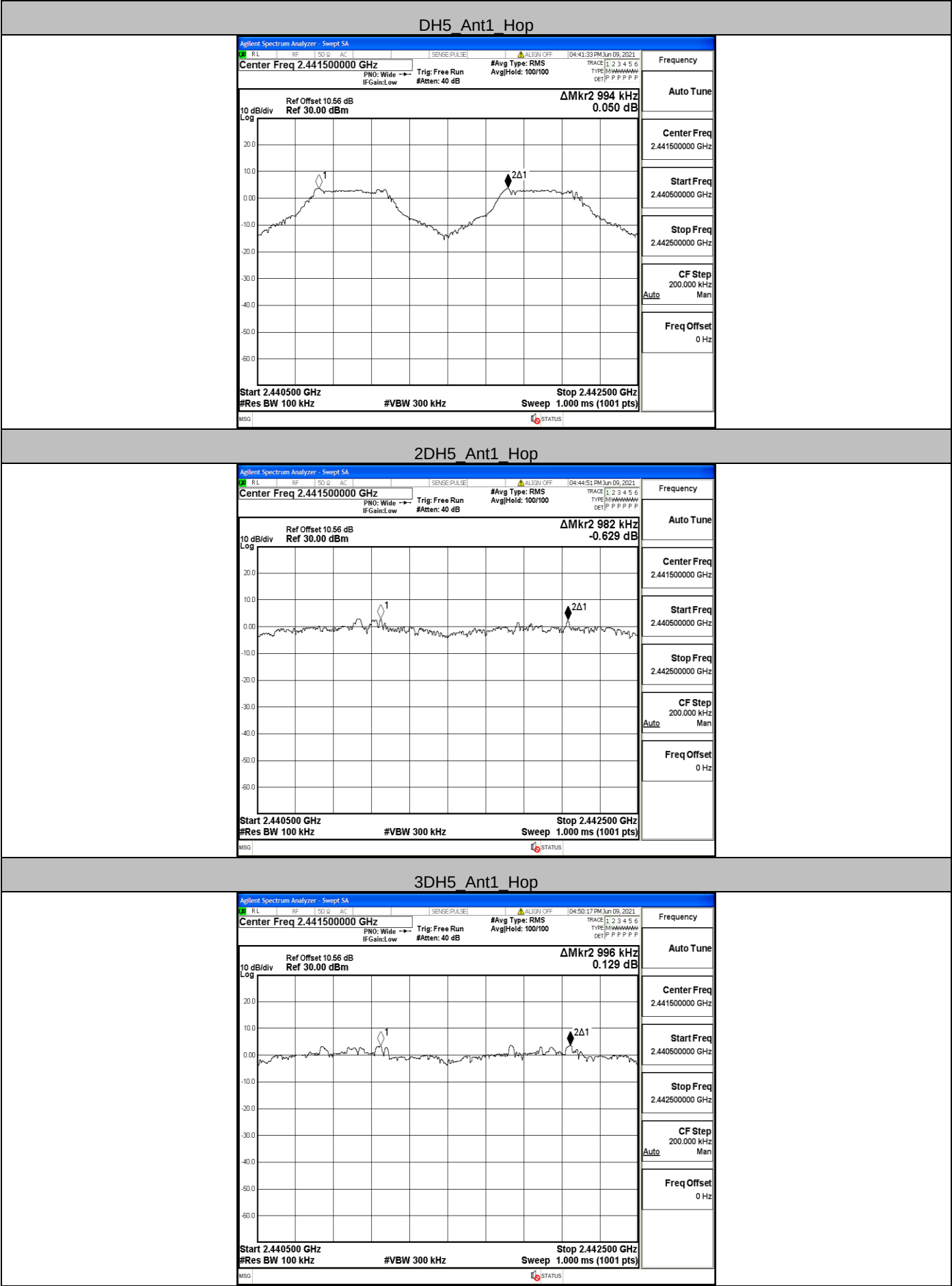
3DH5_Ant1_2480



Appendix D: Carrier frequency separation Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.942	PASS
2DH5	Ant1	Hop	0.982	≥ 0.880	PASS
3DH5	Ant1	Hop	0.996	≥ 0.864	PASS

Test Graphs



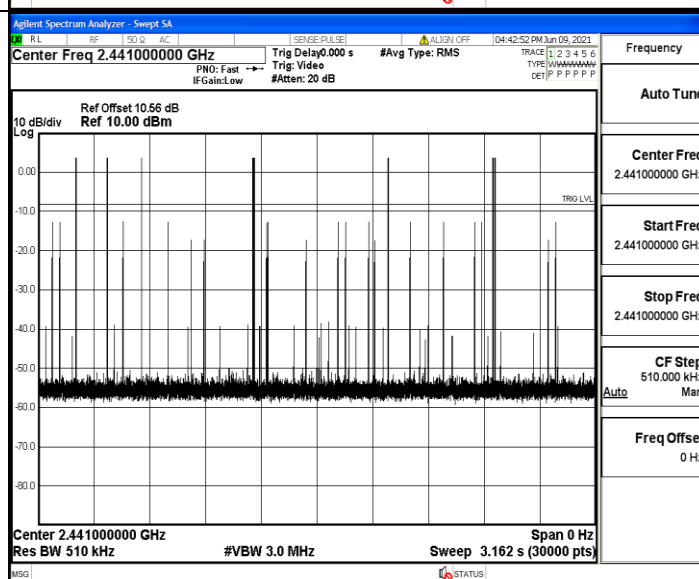
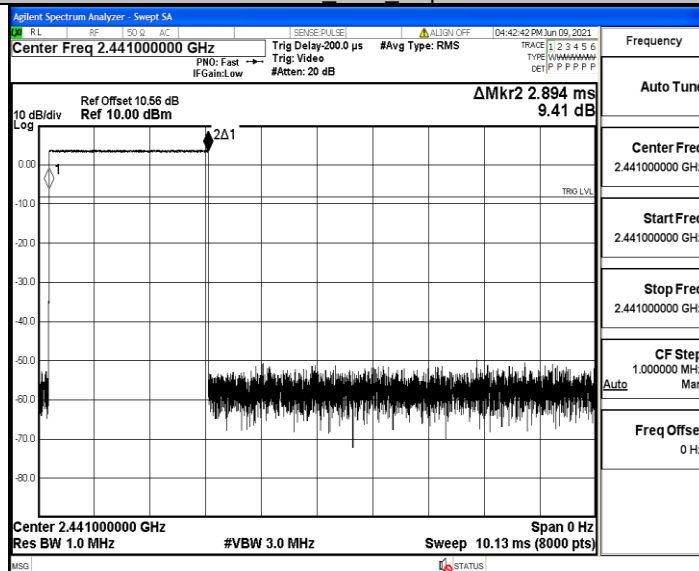
Appendix E: Time of occupancy

Test Result

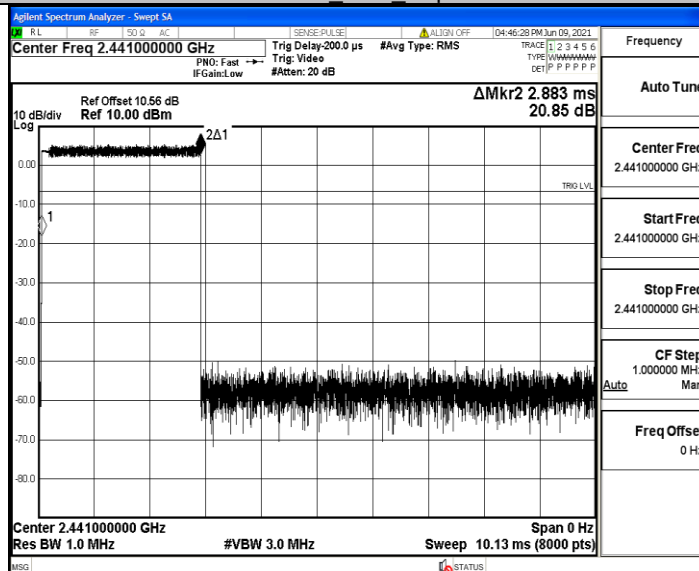
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	90	0.26	≤ 0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.375	≤ 0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤ 0.4	PASS

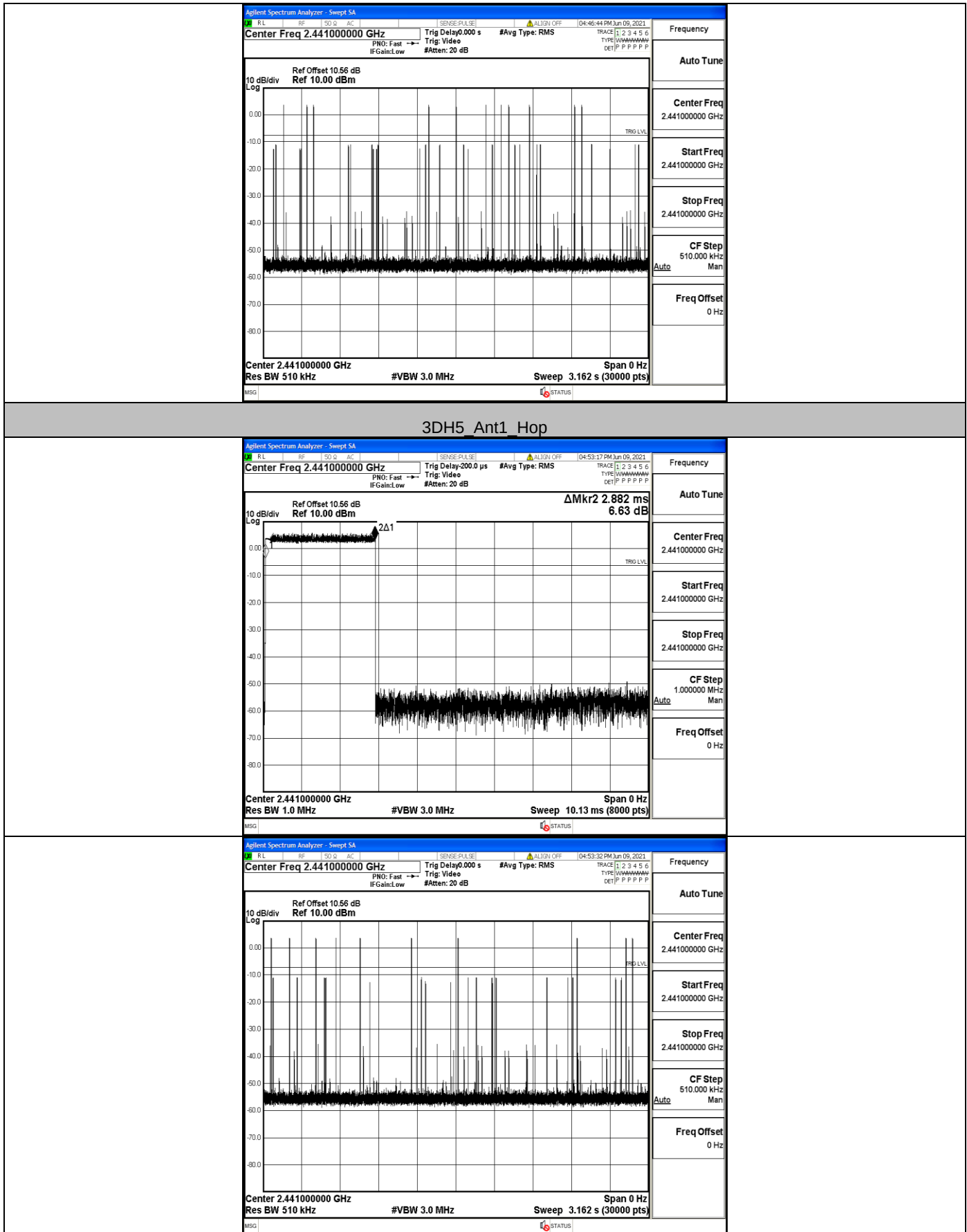
Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





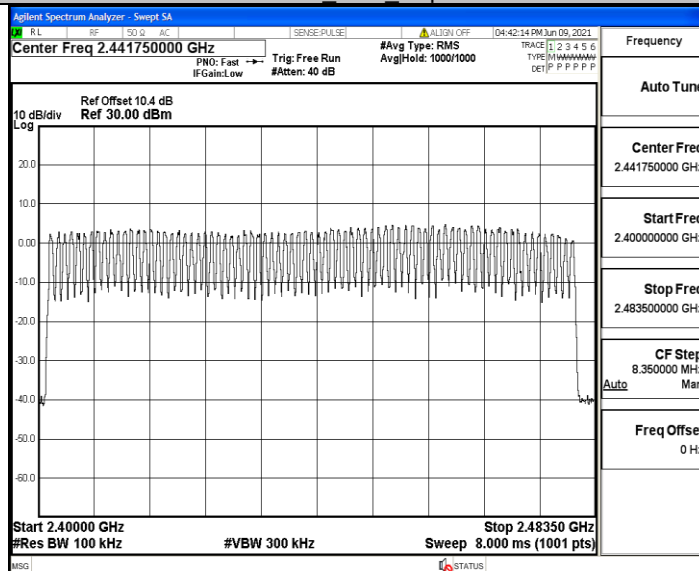
Appendix F: Number of hopping channels

Test Result

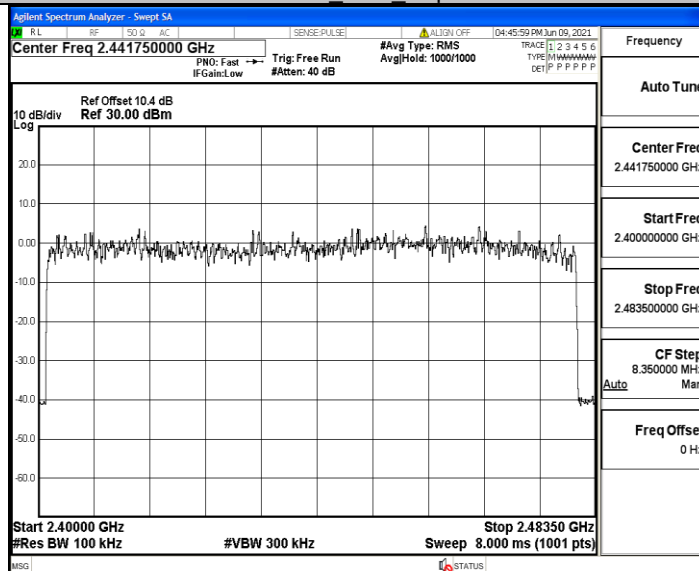
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs

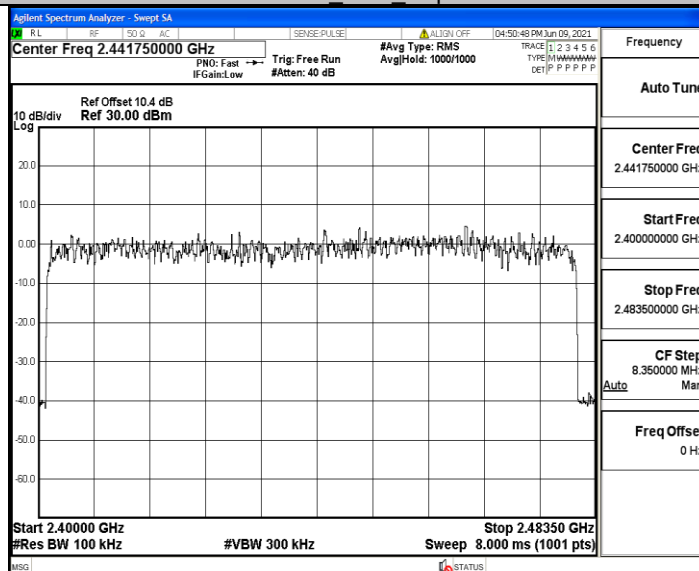
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



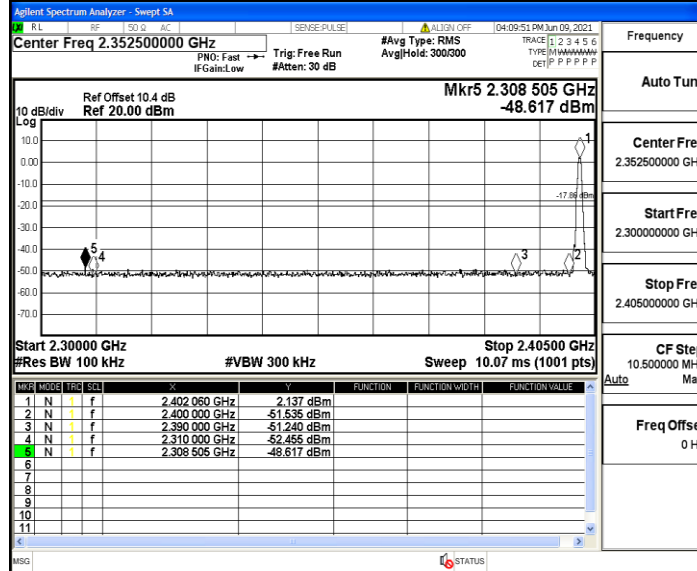
Appendix G: Band edge measurements

Test Result

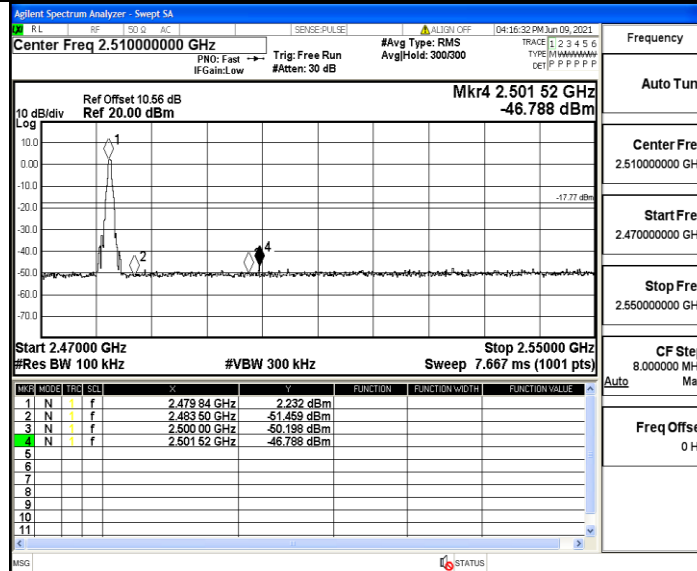
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.14	-48.62	<=-17.86	PASS
		High	2480	2.23	-46.79	<=-17.77	PASS
		Low	Hop_2402	1.32	-48.66	<=-18.68	PASS
		High	Hop_2480	2.73	-47.76	<=-17.27	PASS
2DH5	Ant1	Low	2402	1.45	-48.3	<=-18.55	PASS
		High	2480	1.96	-47.99	<=-18.04	PASS
		Low	Hop_2402	-0.34	-49.4	<=-20.34	PASS
		High	Hop_2480	3.47	-48.05	<=-16.53	PASS
3DH5	Ant1	Low	2402	2.40	-48.67	<=-17.6	PASS
		High	2480	1.87	-47.77	<=-18.13	PASS
		Low	Hop_2402	0.10	-49.01	<=-19.9	PASS
		High	Hop_2480	0.98	-47.62	<=-19.02	PASS

Test Graphs

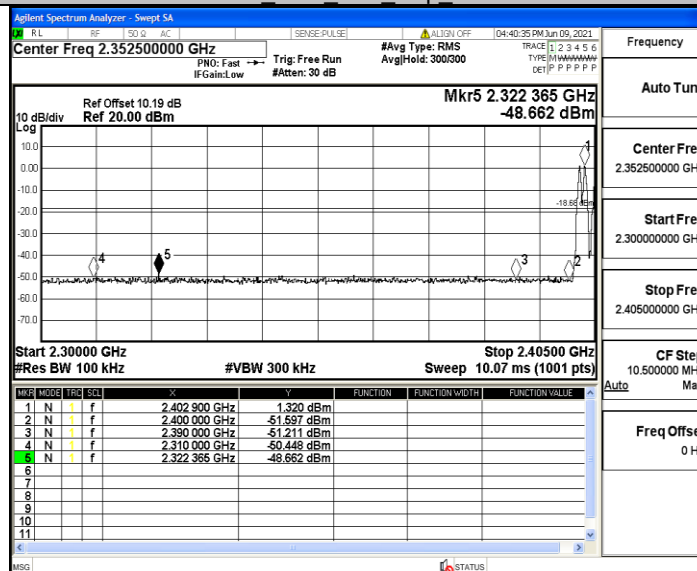
DH5_Ant1_Low_2402



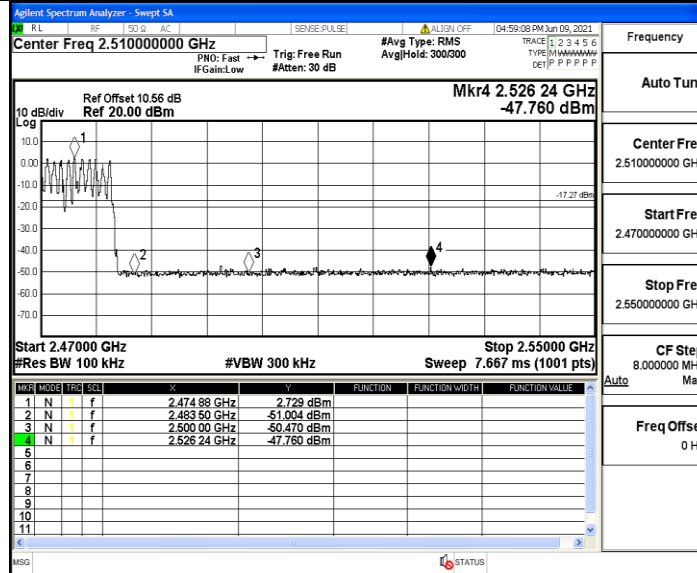
DH5_Ant1_High_2480



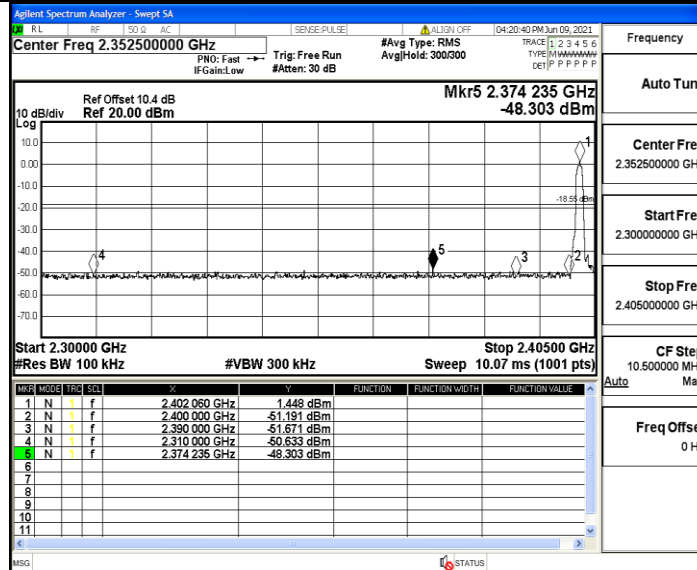
DH5_Ant1_Low_Hop_2402



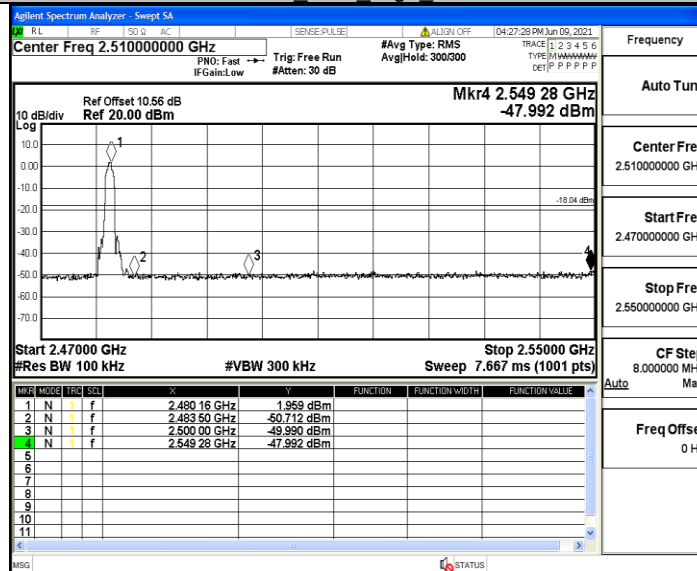
DH5 Ant1 High Hop 2480



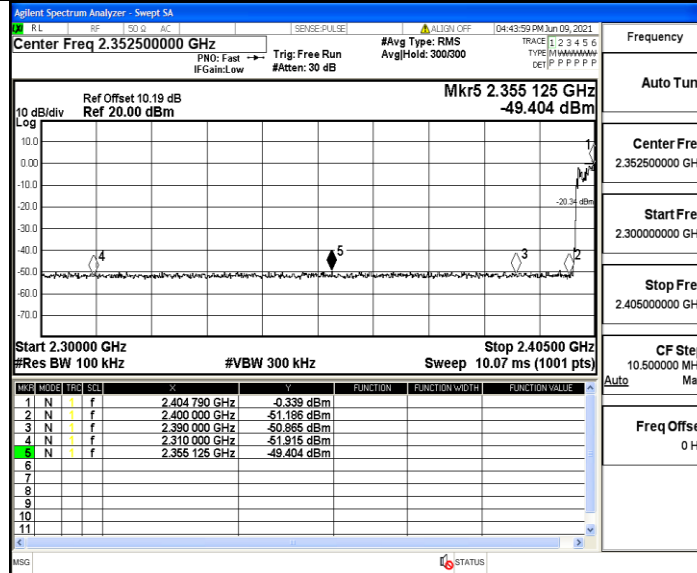
2DH5 Ant1 Low 2402



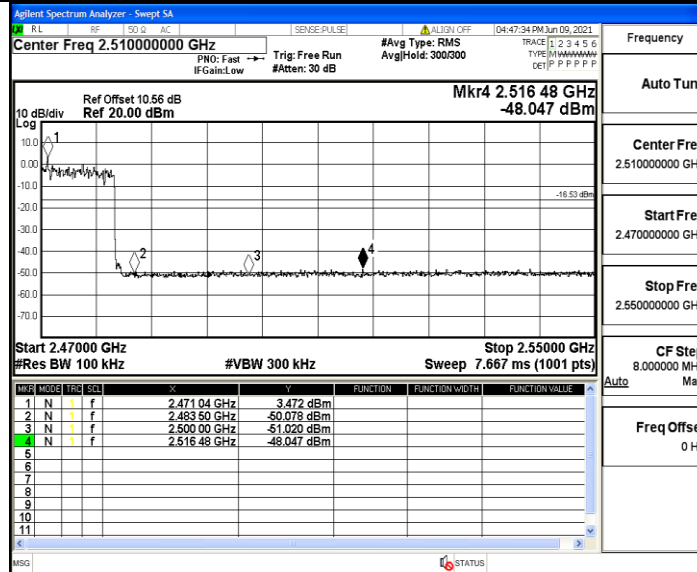
2DH5 Ant1 High 2480



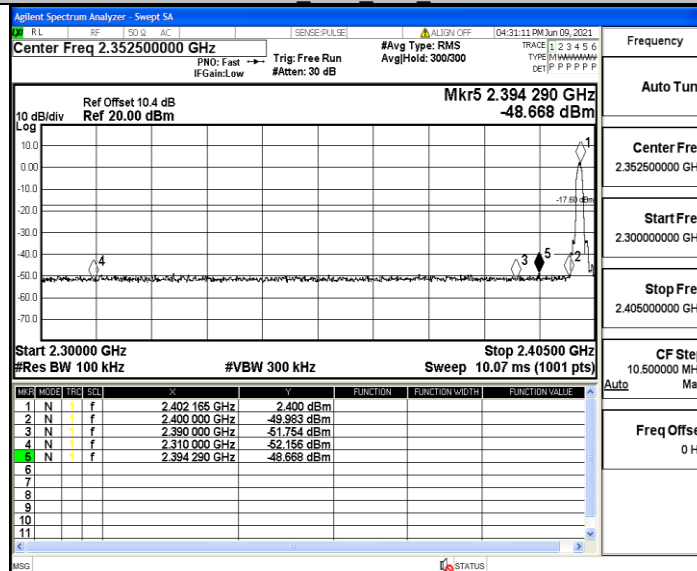
2DH5 Ant1 Low Hop 2402



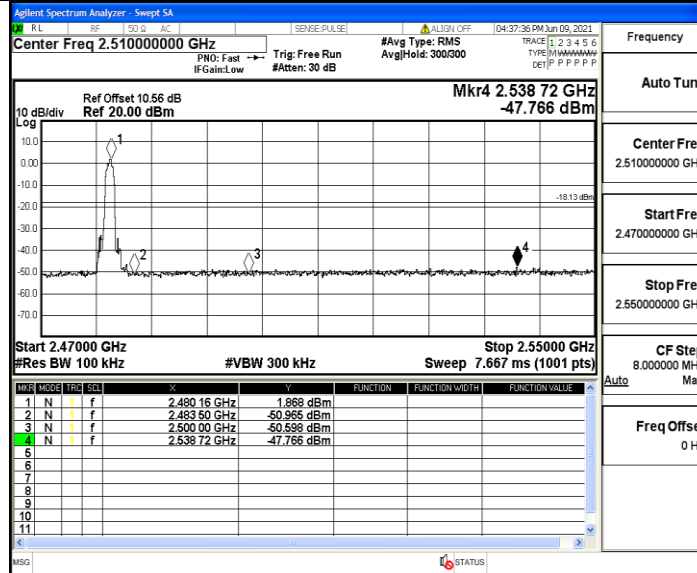
2DH5 Ant1 High Hop 2480



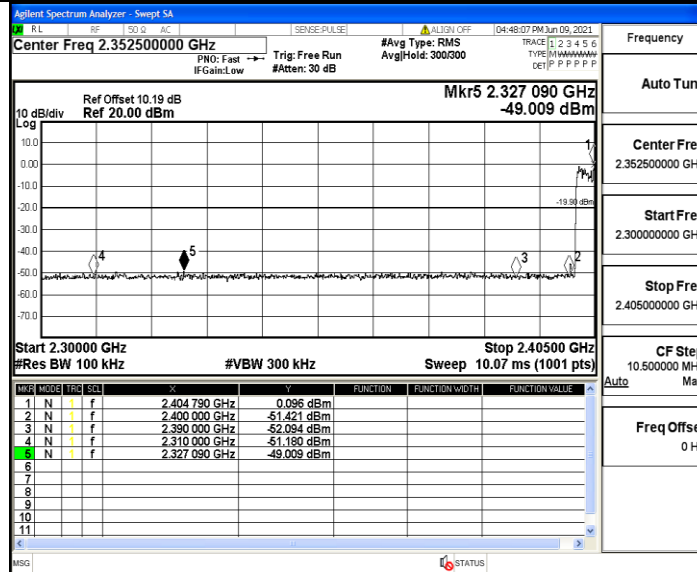
3DH5 Ant1 Low 2402



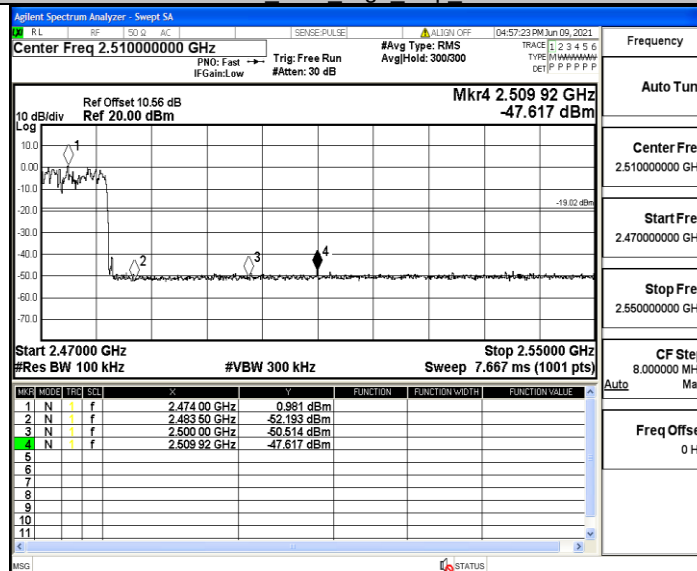
3DH5 Ant1 High 2480



3DH5 Ant1 Low Hop 2402



3DH5 Ant1 High Hop 2480



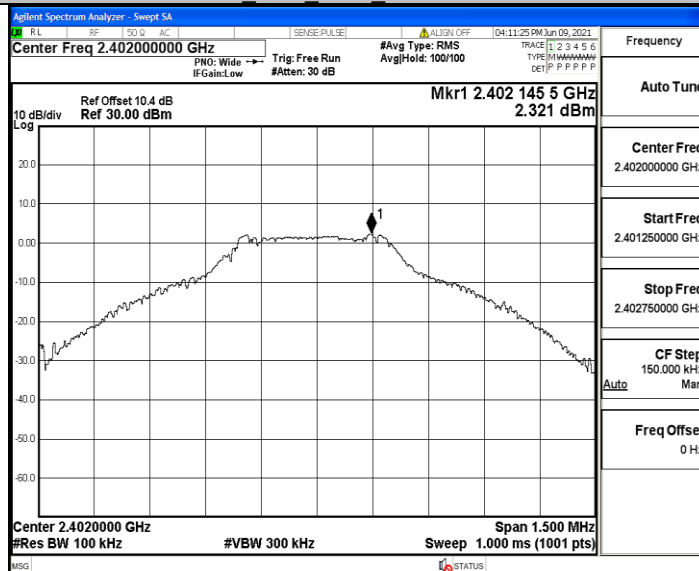
Appendix H: Conducted Spurious Emission

Test Result

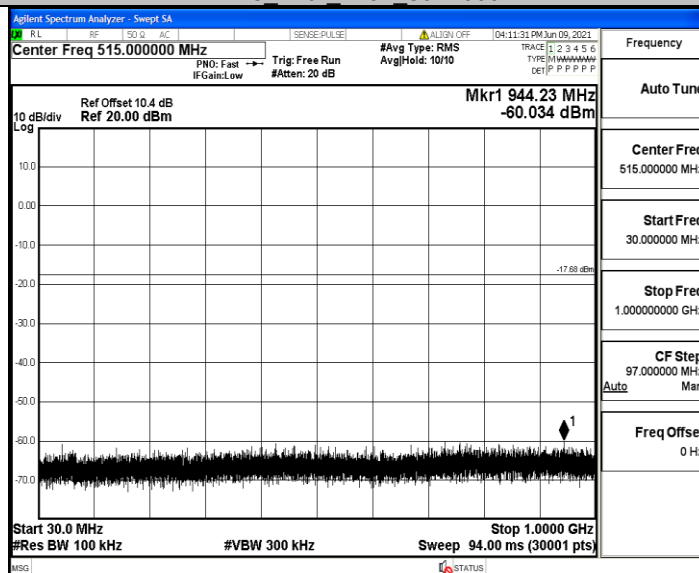
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-60.03	<=-17.68	PASS
			1000~26500	2.32	-51.04	<=-17.68	PASS
		2441	Reference	3.45	3.45	---	PASS
			30~1000	3.45	-58.96	<=-16.55	PASS
			1000~26500	3.45	-51.04	<=-16.55	PASS
		2480	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-59.5	<=-17.75	PASS
			1000~26500	2.25	-50.61	<=-17.75	PASS
2DH5	Ant1	2402	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-59.84	<=-20.78	PASS
			1000~26500	-0.78	-50.11	<=-20.78	PASS
		2441	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-59.92	<=-17.06	PASS
			1000~26500	2.94	-50.96	<=-17.06	PASS
		2480	Reference	1.63	1.63	---	PASS
			30~1000	1.63	-59.49	<=-18.37	PASS
			1000~26500	1.63	-50.04	<=-18.37	PASS
3DH5	Ant1	2402	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-59.35	<=-19.38	PASS
			1000~26500	0.62	-50.94	<=-19.38	PASS
		2441	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-59.84	<=-19.02	PASS
			1000~26500	0.98	-50.24	<=-19.02	PASS
		2480	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-59.24	<=-17.67	PASS
			1000~26500	2.33	-51.18	<=-17.67	PASS

Test Graphs

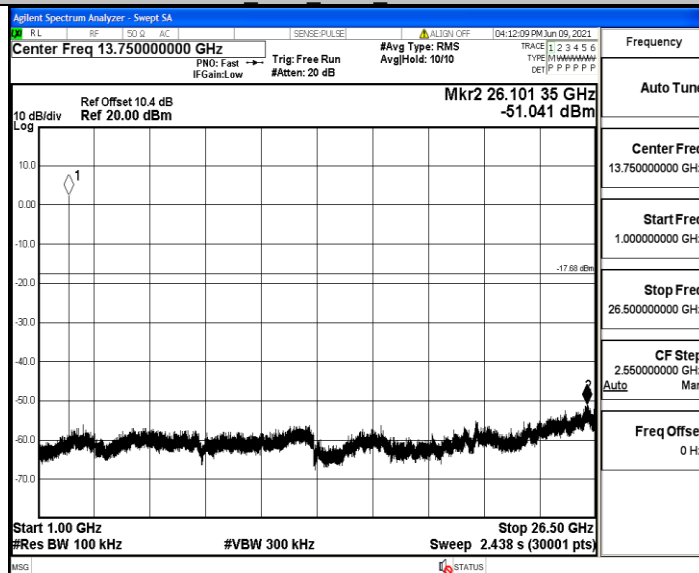
DH5_Ant1_2402_0-Reference



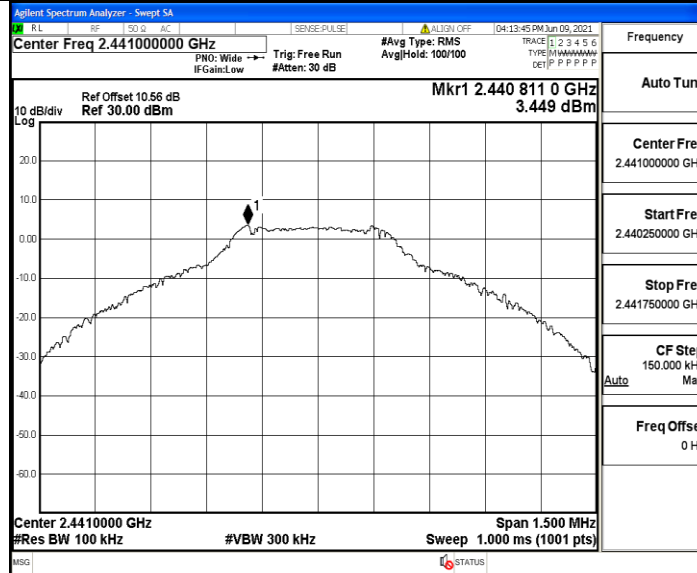
DH5_Ant1_2402_30~1000



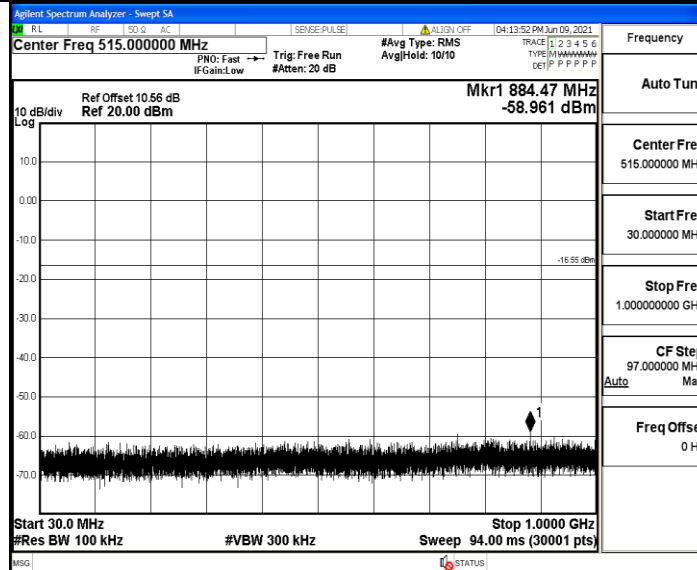
DH5_Ant1_2402_1000~26500



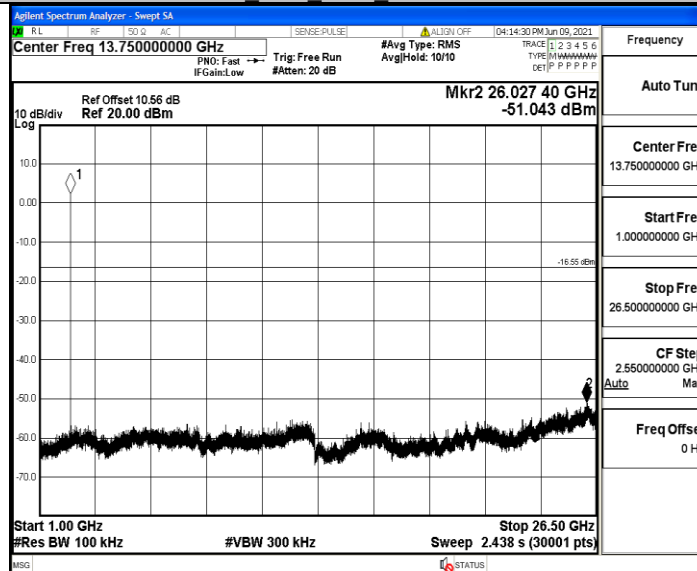
DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0-Reference