

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: Mobile phone****Trade Mark: KRIP****Test Model: PL04****FCC ID: 2ALJJPL04****Environmental Conditions**

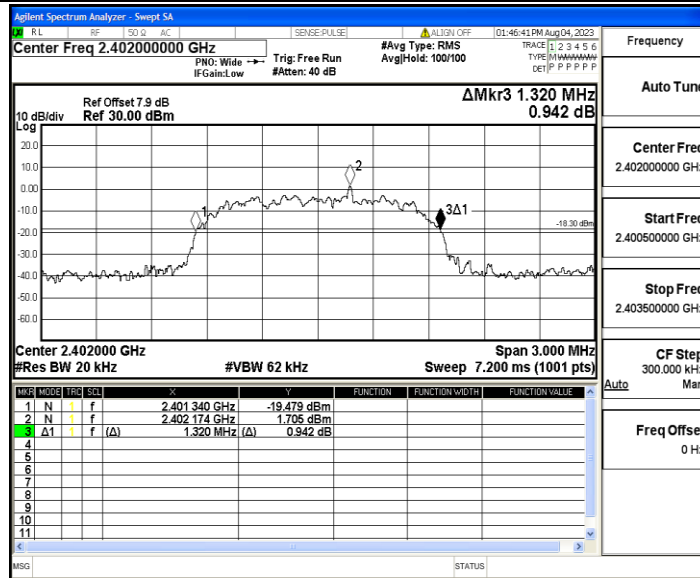
Temperature:	23.8℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen

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

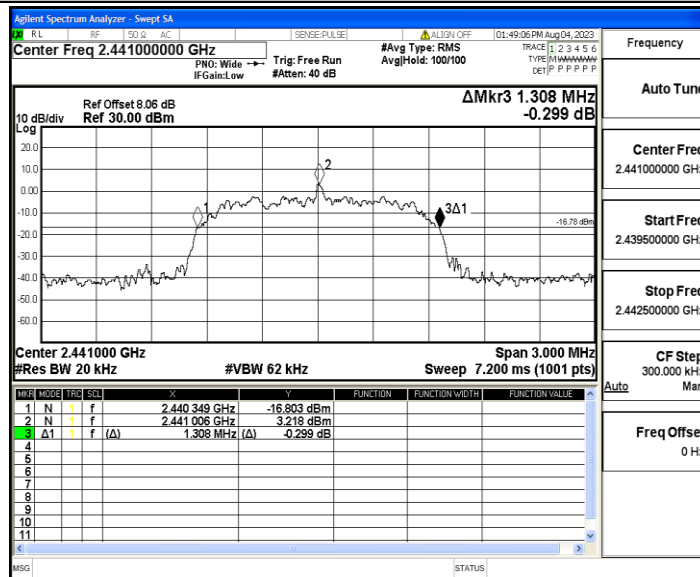
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.885	2401.544	2402.429	---	---
		2441	0.864	2440.544	2441.408	---	---
		2480	0.864	2479.541	2480.405	---	---
2DH5	Ant1	2402	1.320	2401.340	2402.660	---	---
		2441	1.308	2440.349	2441.657	---	---
		2480	1.329	2479.340	2480.669	---	---
3DH5	Ant1	2402	1.263	2401.361	2402.624	---	---
		2441	1.263	2440.364	2441.627	---	---
		2480	1.269	2479.355	2480.624	---	---

Test Graphs

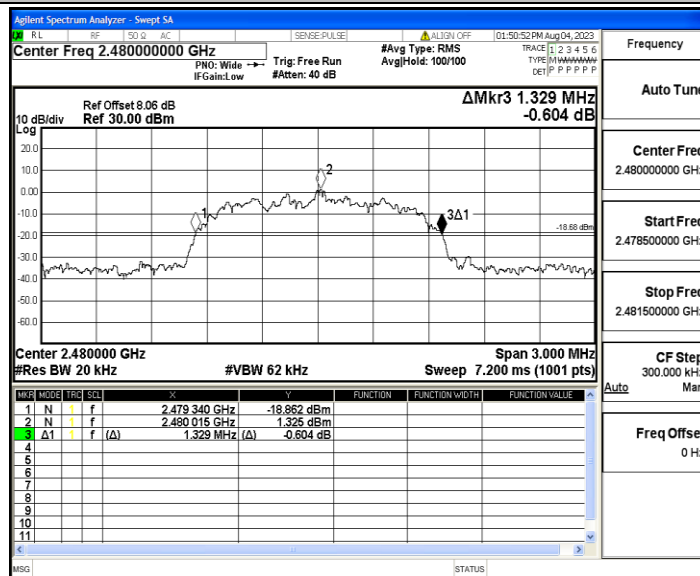




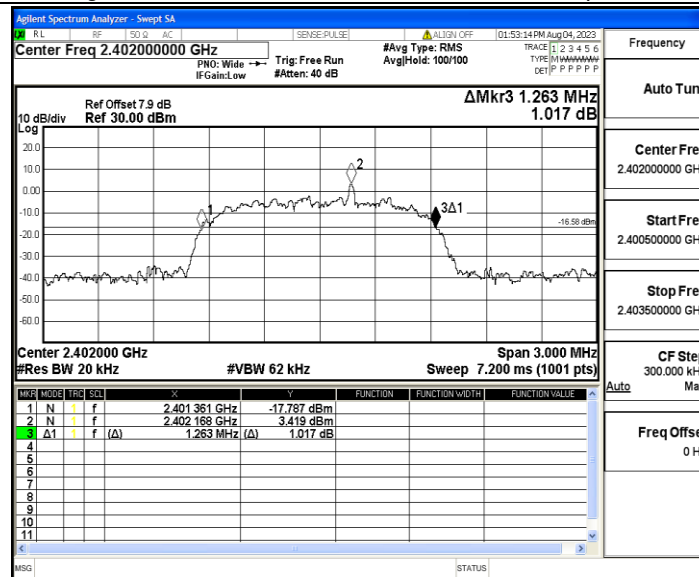
2DH5_Ant1_2441



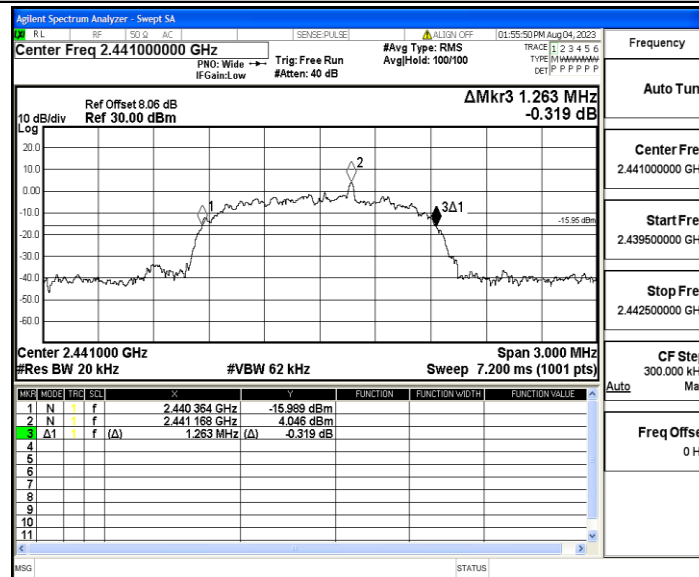
2DH5_Ant1_2480



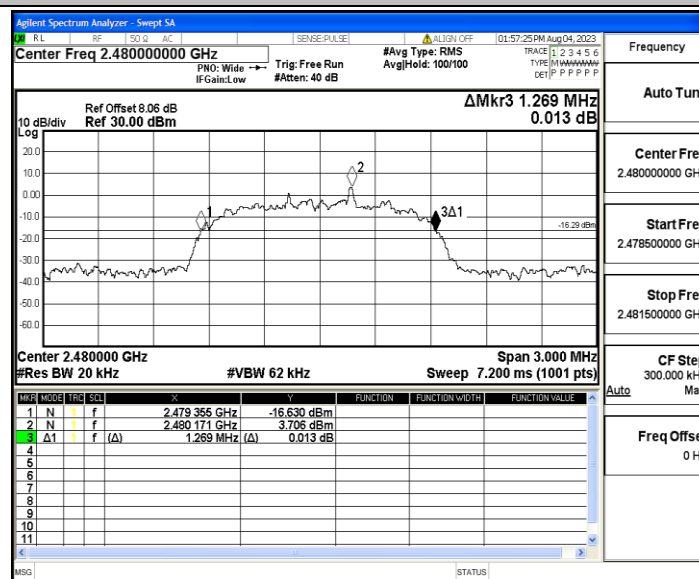
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



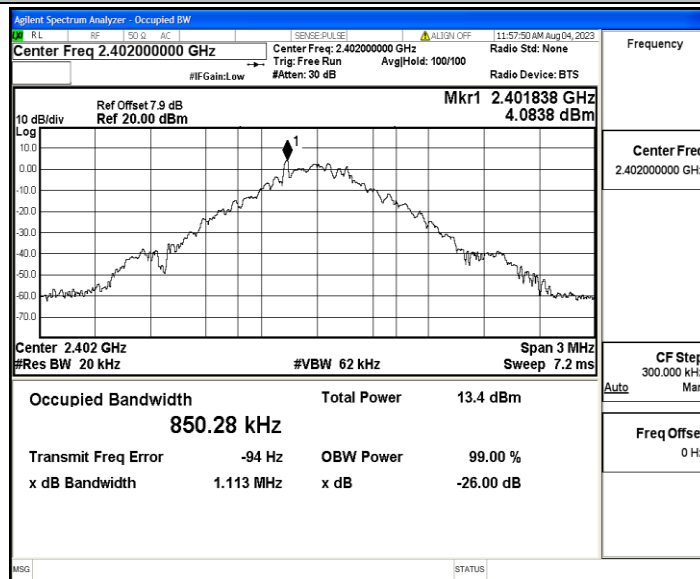
Appendix B: Occupied Channel Bandwidth

Test Result

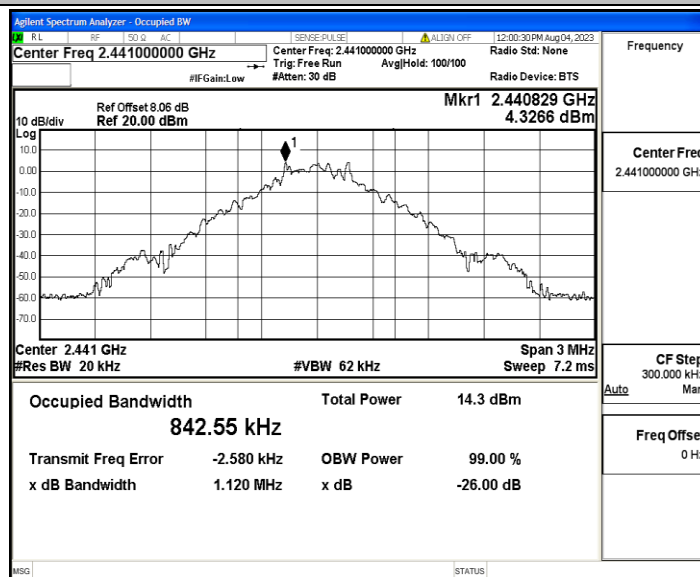
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85028	2401.5748	2402.4251	---	---
		2441	0.84255	2440.5761	2441.4187	---	---
		2480	0.84532	2479.5739	2480.4192	---	---
2DH5	Ant1	2402	1.1906	2401.4085	2402.5991	---	---
		2441	1.1907	2440.4065	2441.5972	---	---
		2480	1.2043	2479.4005	2480.6048	---	---
3DH5	Ant1	2402	1.2036	2401.3922	2402.5958	---	---
		2441	1.2011	2440.3934	2441.5945	---	---
		2480	1.2134	2479.3869	2480.6003	---	---

Test Graphs

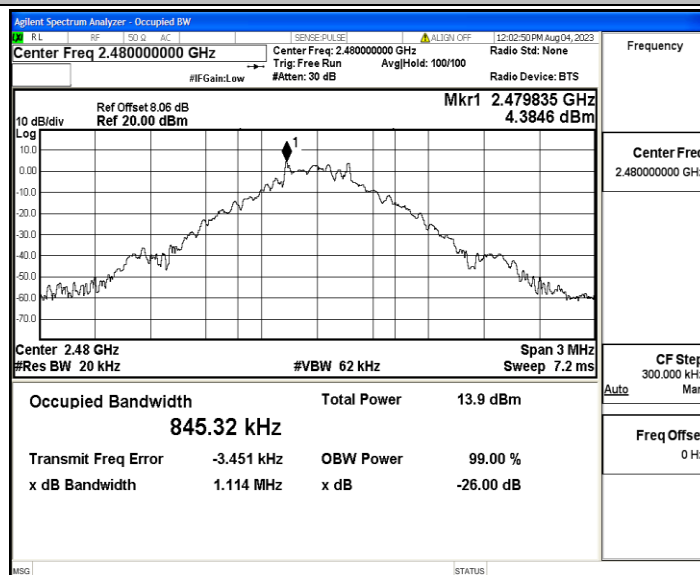
DH5_Ant1_2402



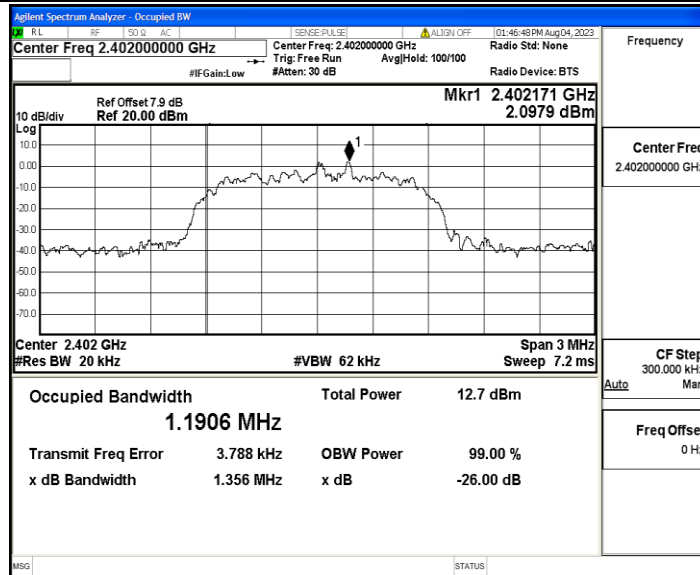
DH5_Ant1_2441



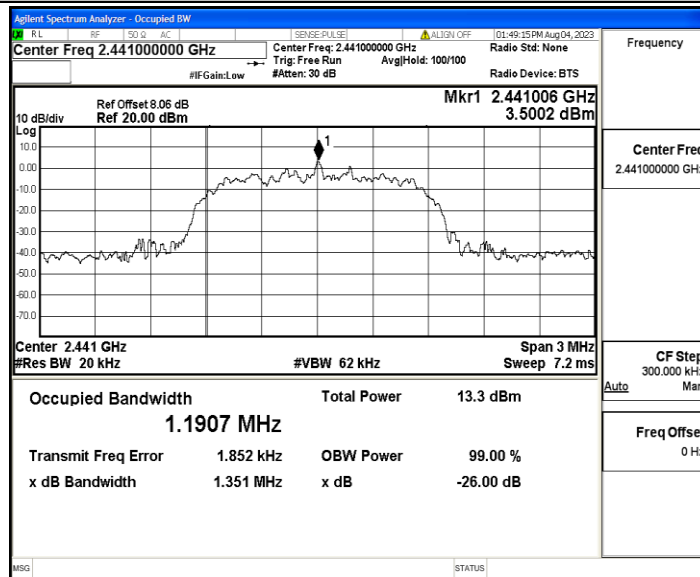
DH5_Ant1_2480



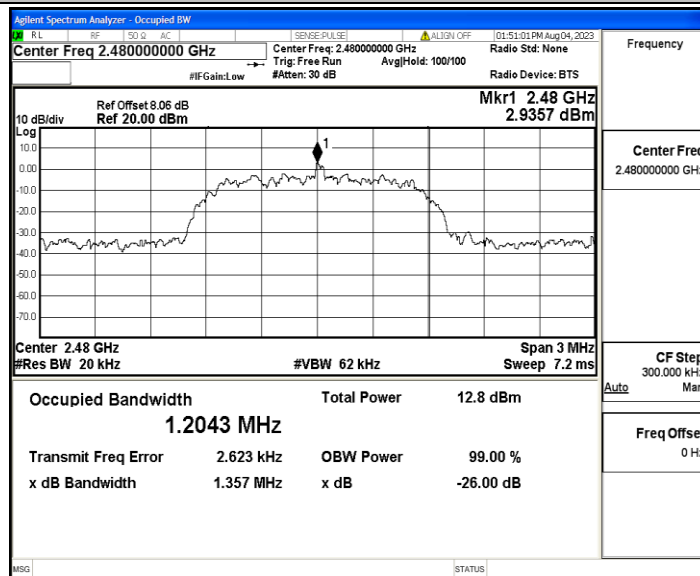
2DH5_Ant1_2402



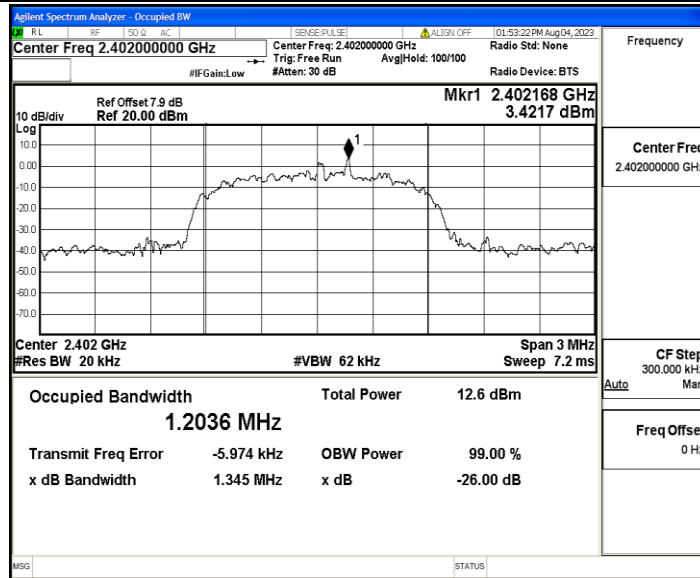
2DH5_Ant1_2441



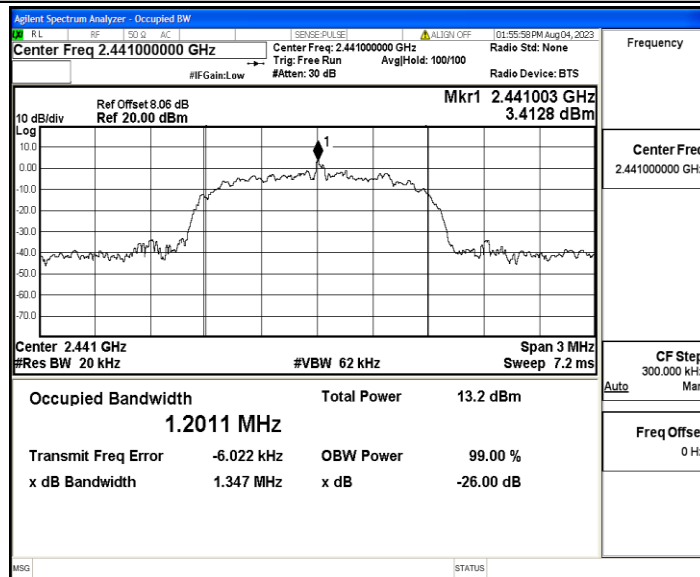
2DH5_Ant1_2480



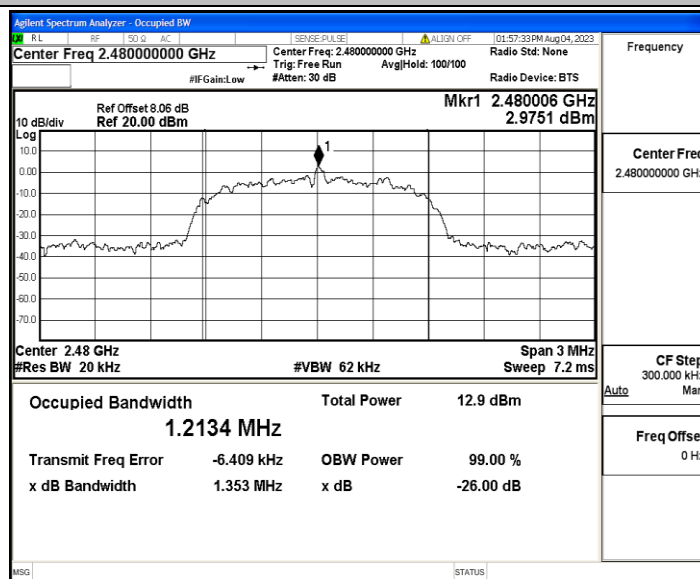
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

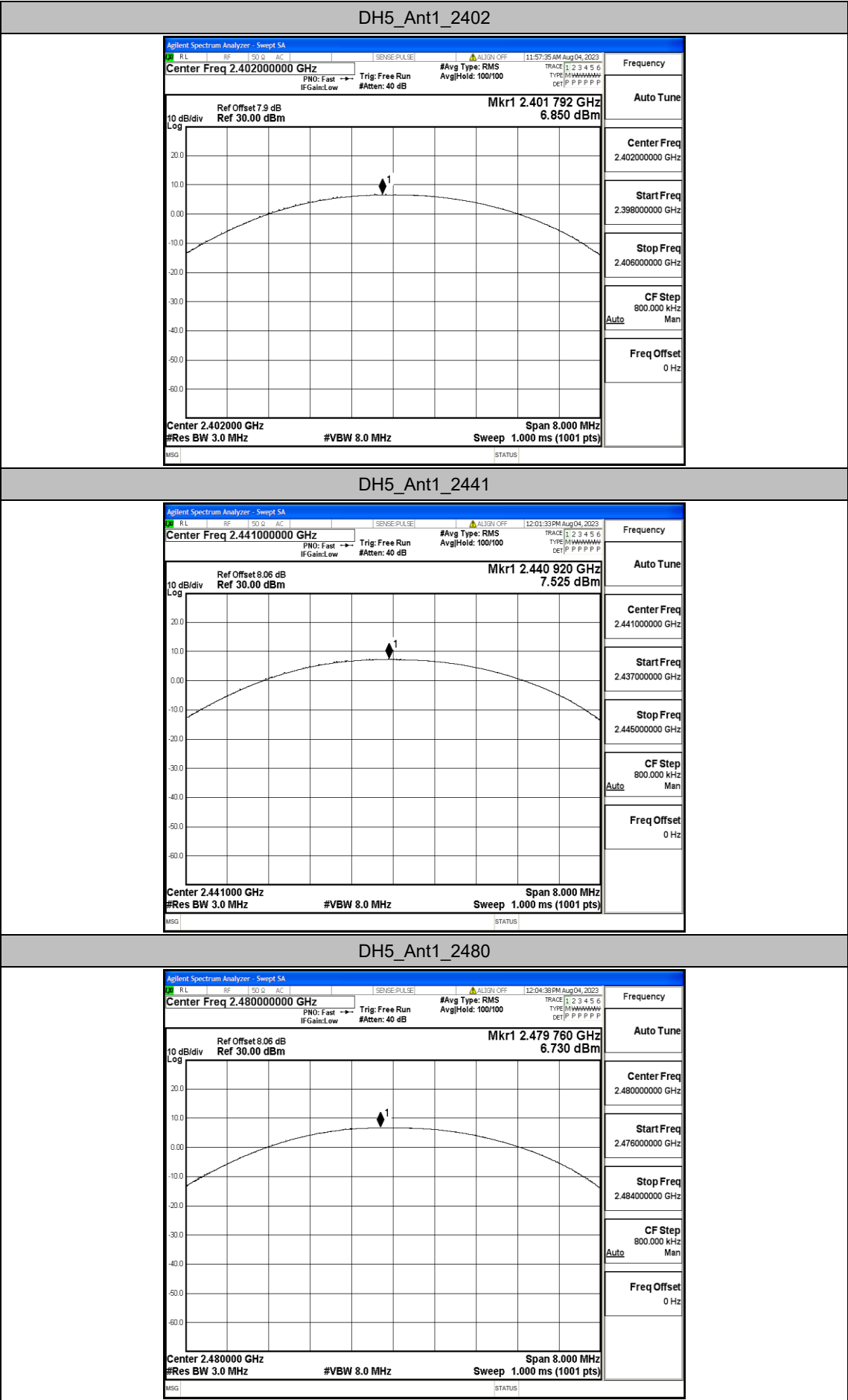


Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	6.85	≤30.0	PASS
		2441	7.53	≤30.0	PASS
		2480	6.73	≤30.0	PASS
2DH5	Ant1	2402	7.59	≤20.97	PASS
		2441	8.44	≤20.97	PASS
		2480	7.71	≤20.97	PASS
3DH5	Ant1	2402	7.74	≤20.97	PASS
		2441	8.6	≤20.97	PASS
		2480	7.92	≤20.97	PASS

Test Graphs



DH5_Ant1_2441

Agilent Spectrum Analyzer - Swept SA

RL

RF

50 Ω

AC

SENSE: PULSE

ALIGN: OFF

12:01:33 PM Aug 04, 2023

Center Freq 2.441000000 GHz

PNO: Fast

IF Gain: Low

Trig: Free Run

#Atten: 40 dB

#Avg Type: RMS

Avg/Hold: 100/100

TRACE 1 2 3 4 5 6

TYPE: M W W W W W W W

DET: P P P P P P

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.437000000 GHz

Stop Freq 2.445000000 GHz

CF Step 800.000 kHz

Auto

Man

Freq Offset 0 Hz

Ref Offset 8.06 dB

Ref 30.00 dBm

Mkr1 2.440 920 GHz

7.525 dBm

10 dB/div

Log

Center 2.441000 GHz

#Res BW 3.0 MHz

#VBW 8.0 MHz

Span 8.000 MHz

Sweep 1.000 ms (1001 pts)

MSG

STATUS

DH5_Ant1_2480

Agilent Spectrum Analyzer - Swept SA

RL

RF

50 Ω

AC

SENSE: PULSE

ALIGN: OFF

12:04:38 PM Aug 04, 2023

Center Freq 2.480000000 GHz

PNO: Fast

IF Gain: Low

Trig: Free Run

#Atten: 40 dB

#Avg Type: RMS

Avg/Hold: 100/100

TRACE 1 2 3 4 5 6

TYPE: M W W W W W W W

DET: P P P P P P

Frequency

Auto Tune

Center Freq 2.480000000 GHz

Start Freq 2.476000000 GHz

Stop Freq 2.484000000 GHz

CF Step 800.000 kHz

Auto

Man

Freq Offset 0 Hz

Ref Offset 8.06 dB

Ref 30.00 dBm

Mkr1 2.479 760 GHz

6.730 dBm

10 dB/div

Log

Center 2.480000 GHz

#Res BW 3.0 MHz

#VBW 8.0 MHz

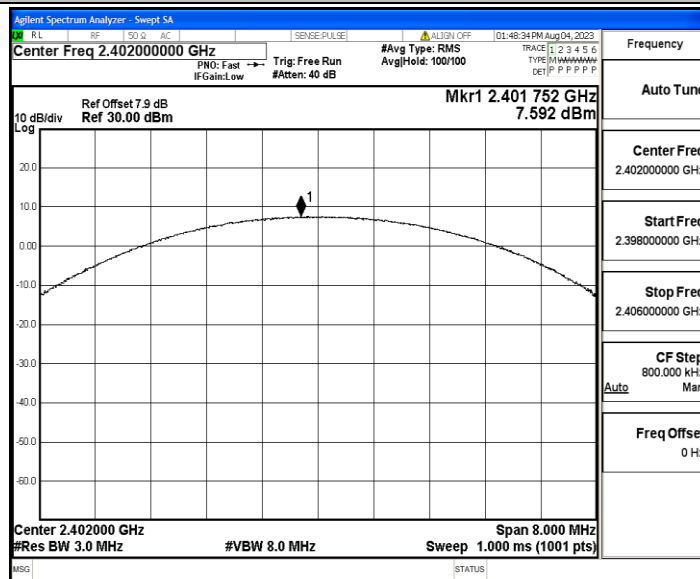
Span 8.000 MHz

Sweep 1.000 ms (1001 pts)

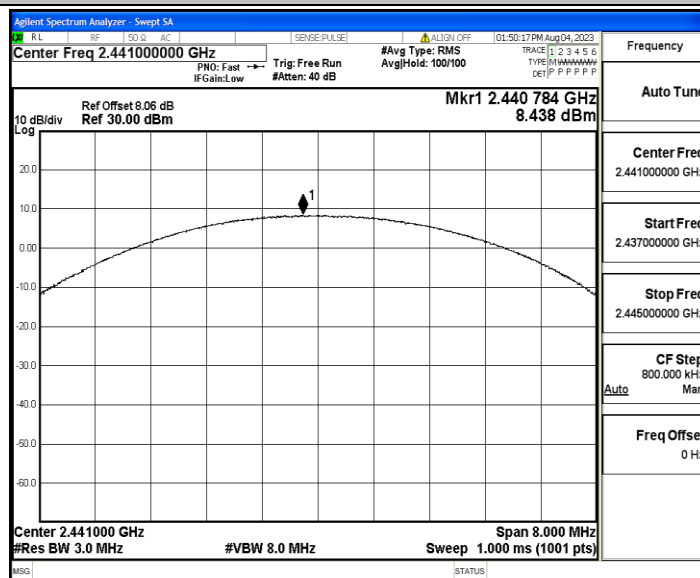
MSG

STATUS

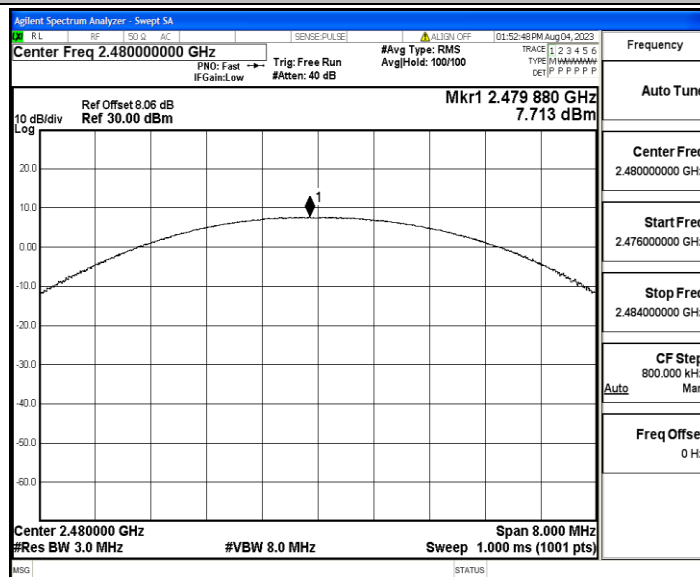
2DH5_Ant1_2402



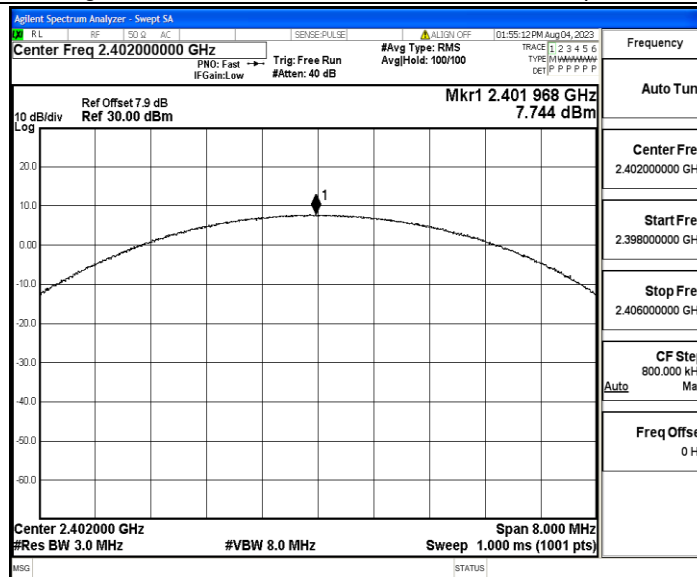
2DH5_Ant1_2441



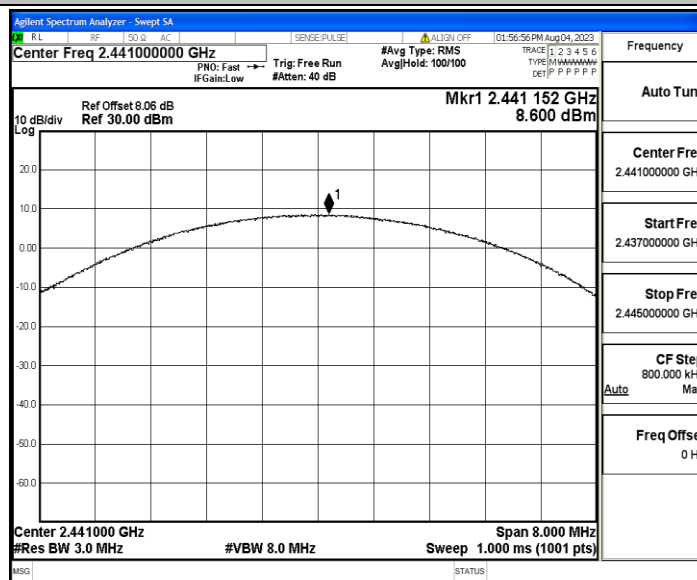
2DH5_Ant1_2480



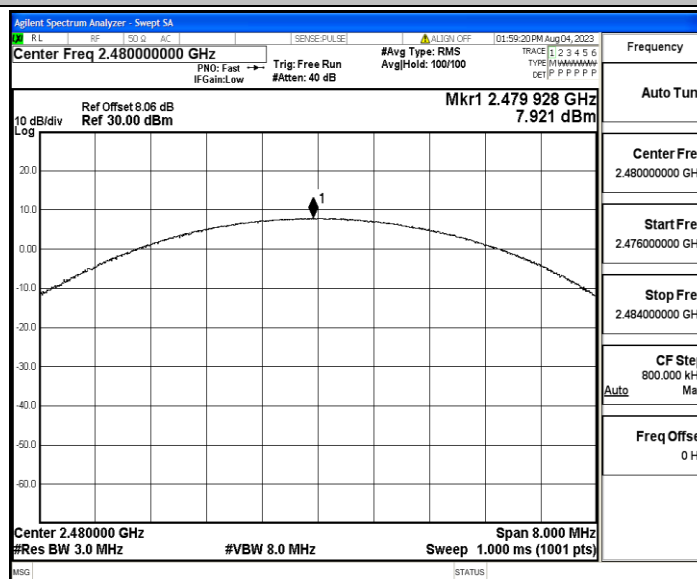
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

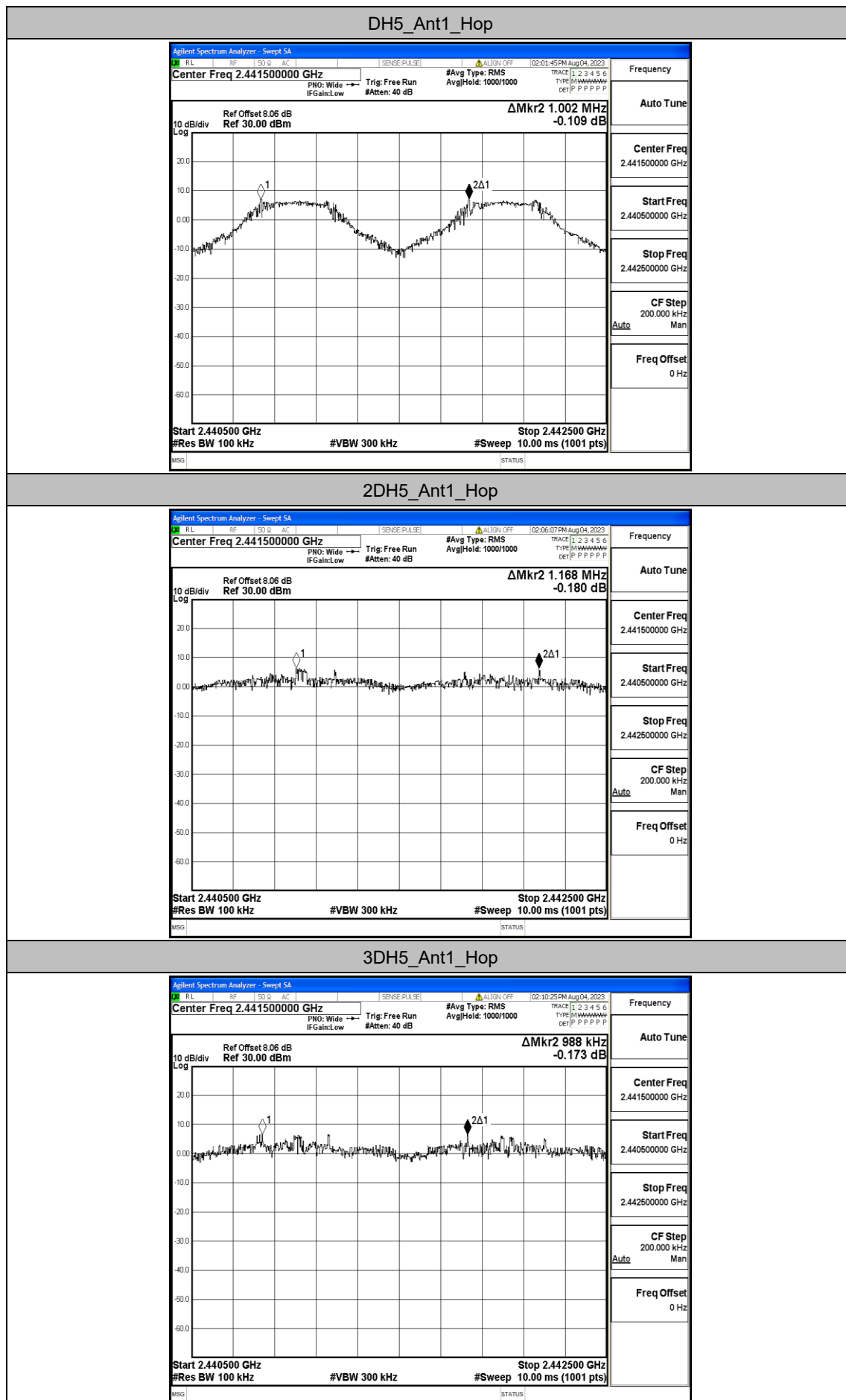


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥ 0.885	PASS
2DH5	Ant1	Hop	1.168	≥ 0.886	PASS
3DH5	Ant1	Hop	0.988	≥ 0.846	PASS

Test Graphs

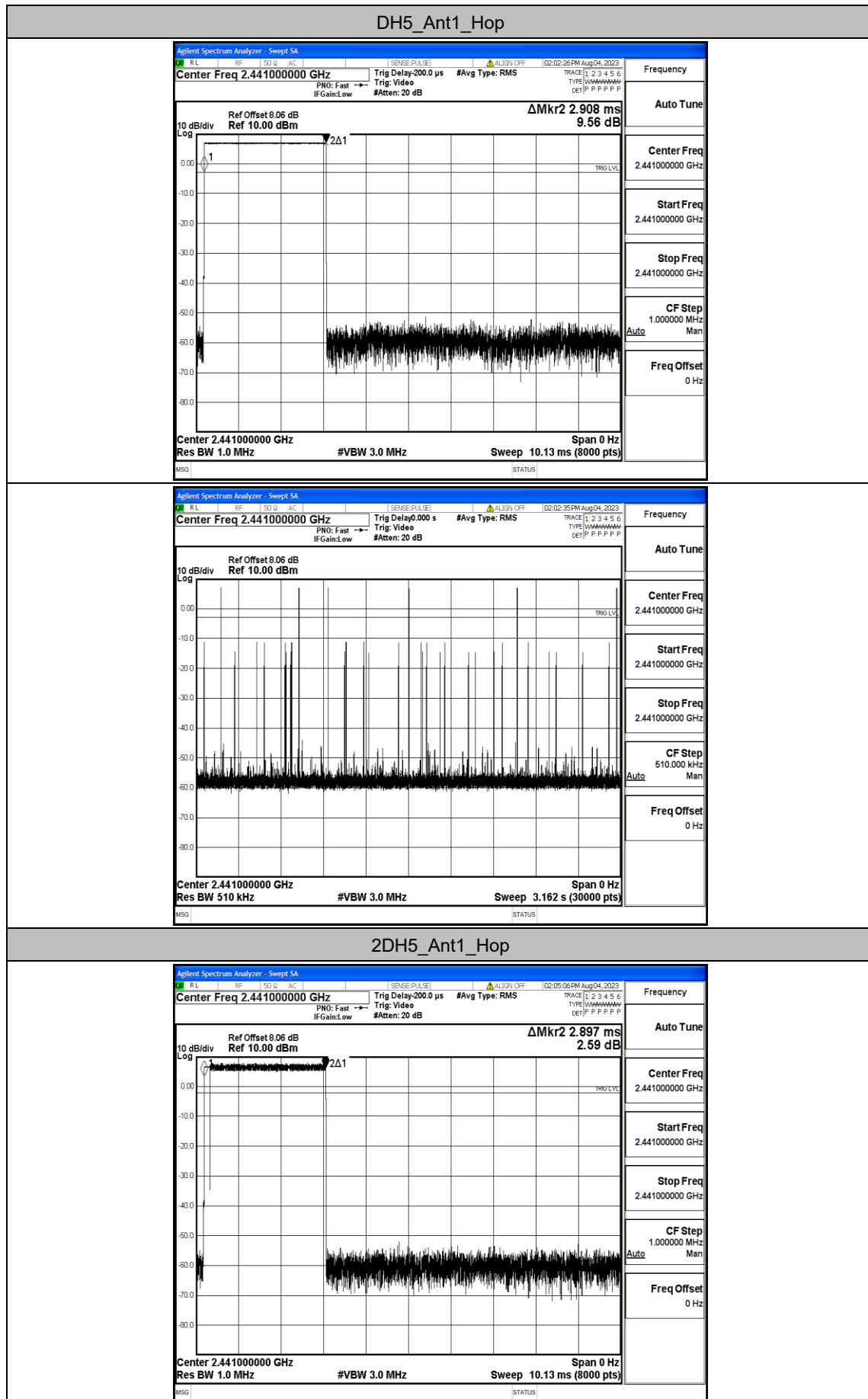


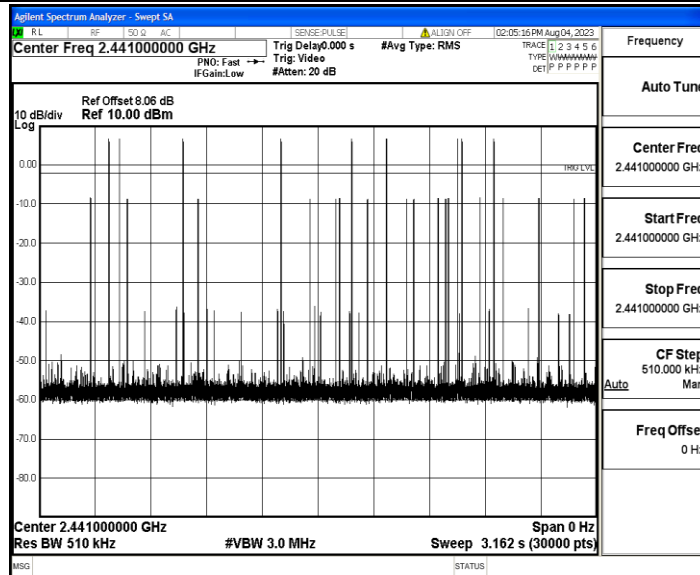
Appendix E: Time of occupancy

Test Result

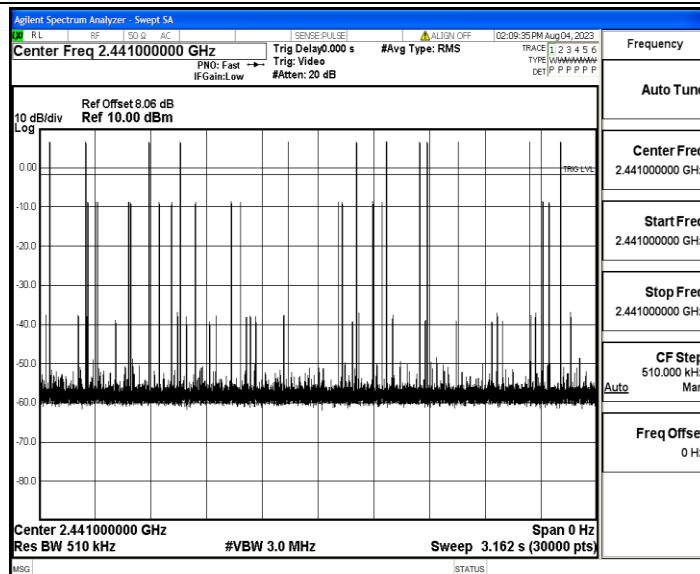
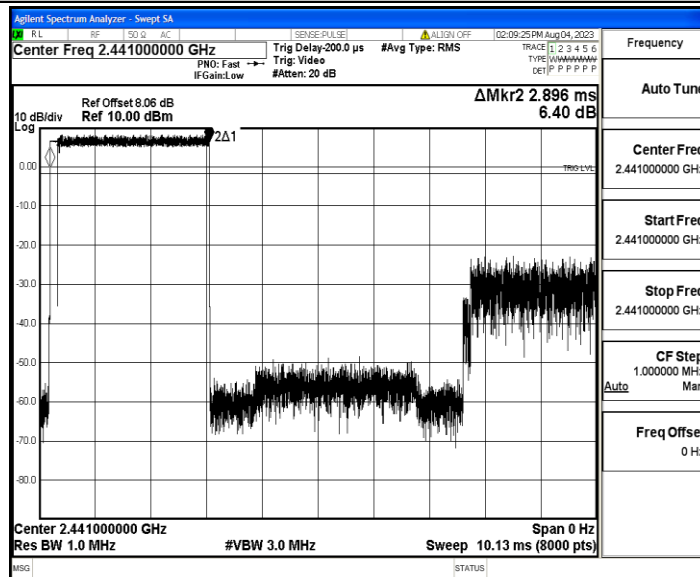
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	70	0.204	≤0.4	PASS
2DH5	Ant1	Hop	2.897	100	0.29	≤0.4	PASS
3DH5	Ant1	Hop	2.896	130	0.376	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop

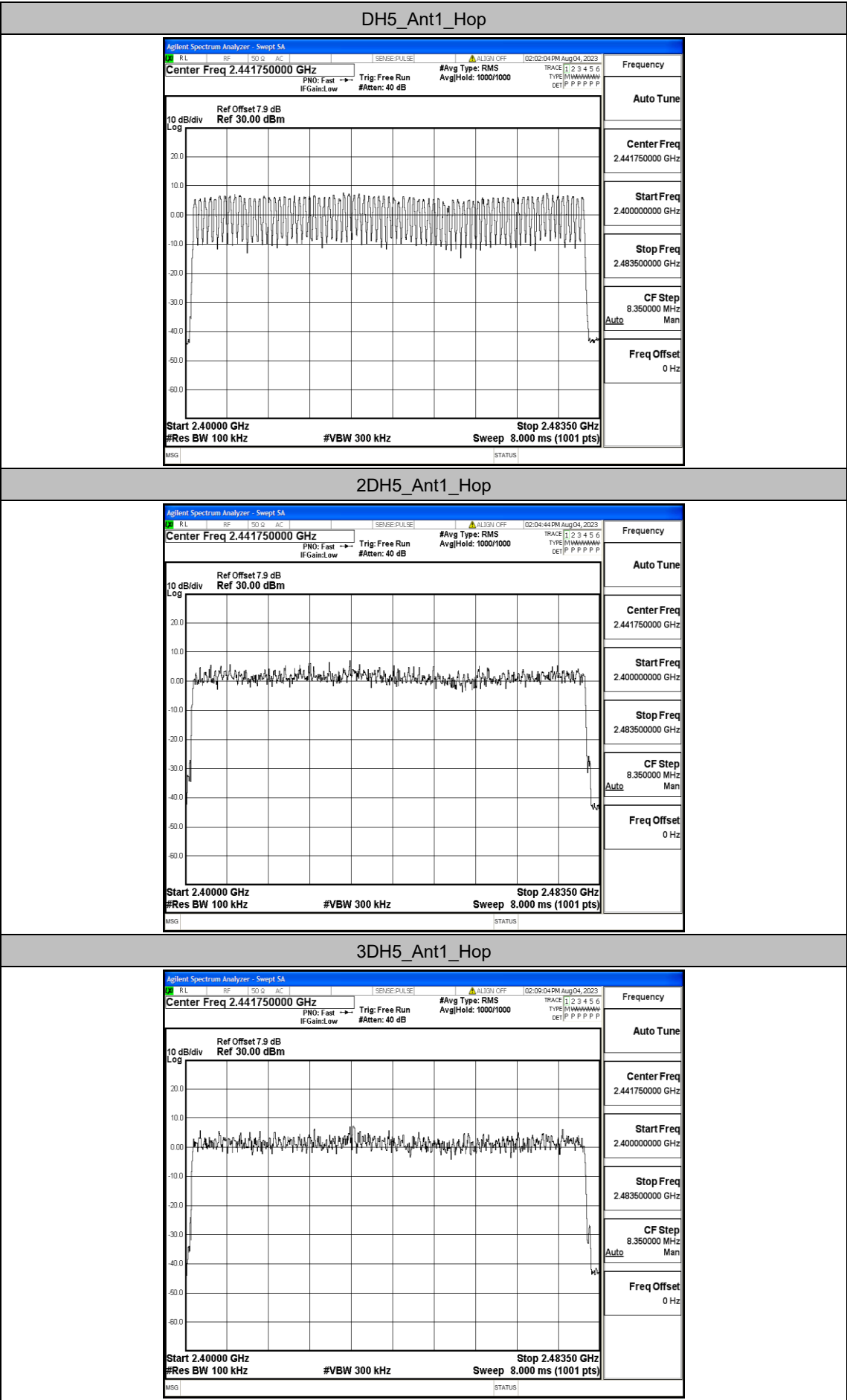


Appendix F: Number of hopping channels

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



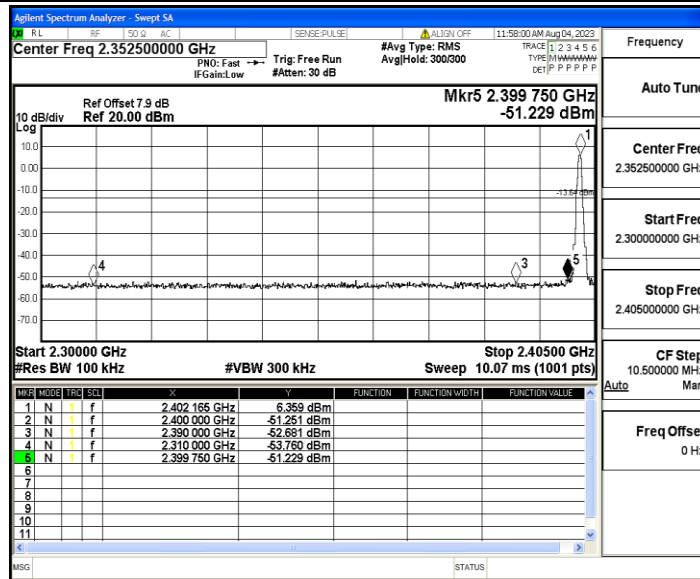
Appendix G: Band edge measurements

Test Result

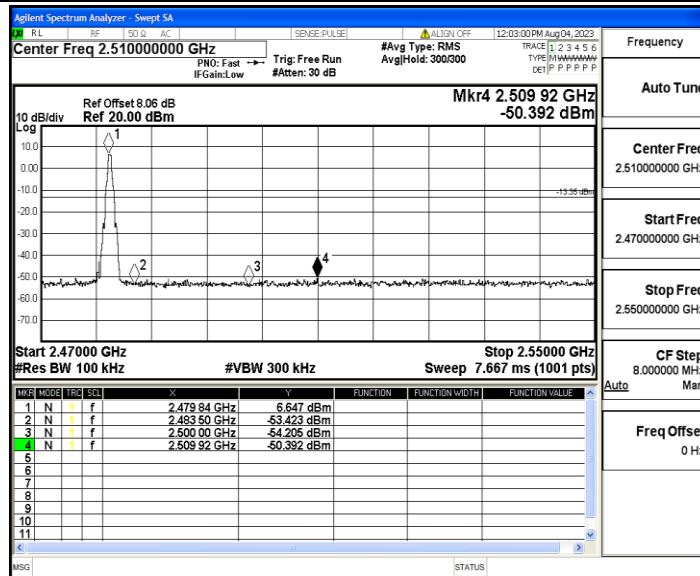
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.36	-51.23	≤-13.64	PASS
		High	2480	6.65	-50.39	≤-13.35	PASS
		Low	Hop_2402	5.33	-51.79	≤-14.68	PASS
		High	Hop_2480	6.99	-50.58	≤-13.01	PASS
2DH5	Ant1	Low	2402	5.71	-51.09	≤-14.29	PASS
		High	2480	6.04	-49.83	≤-13.96	PASS
		Low	Hop_2402	2.25	-51.71	≤-17.75	PASS
		High	Hop_2480	6.70	-50.56	≤-13.3	PASS
3DH5	Ant1	Low	2402	5.93	-50.48	≤-14.07	PASS
		High	2480	6.34	-50.34	≤-13.66	PASS
		Low	Hop_2402	2.75	-51.64	≤-17.25	PASS
		High	Hop_2480	6.28	-50.48	≤-13.73	PASS

Test Graphs

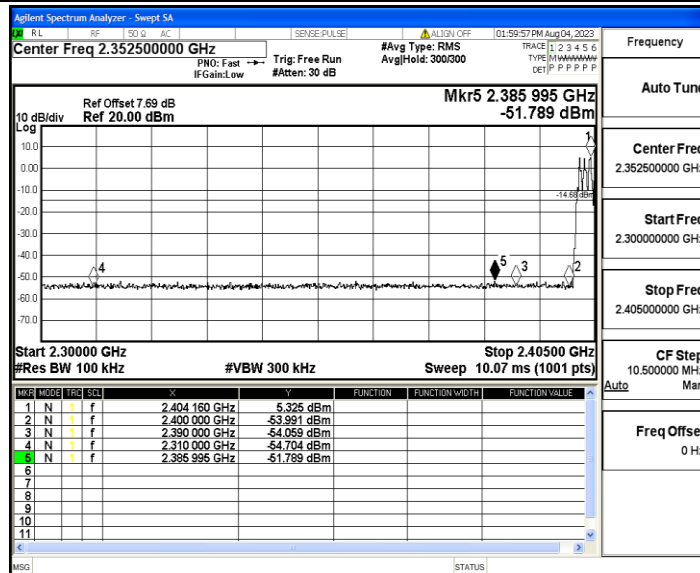
DH5_Ant1_Low_2402



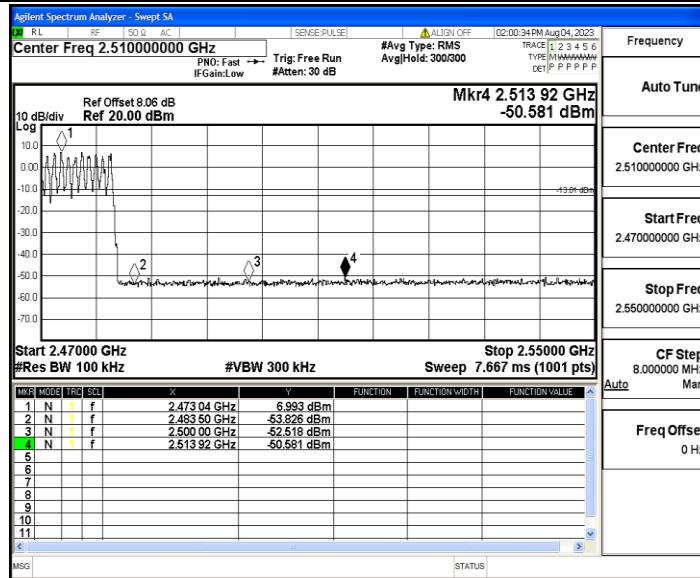
DH5_Ant1_High_2480



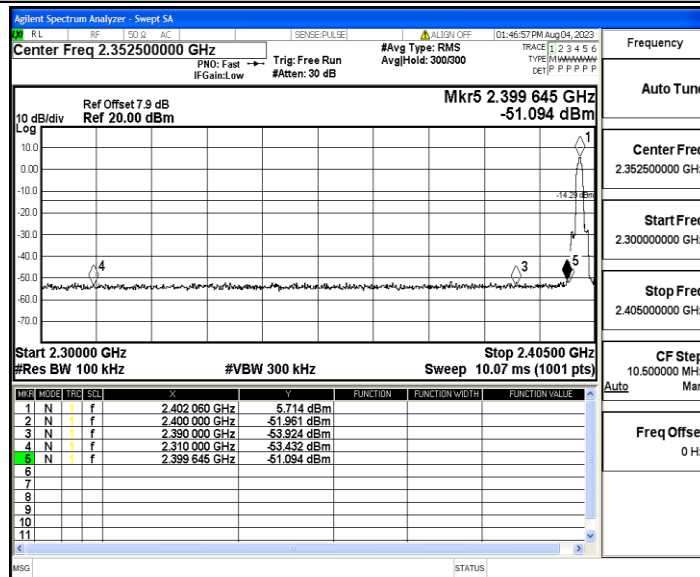
DH5_Ant1_Low_Hop_2402



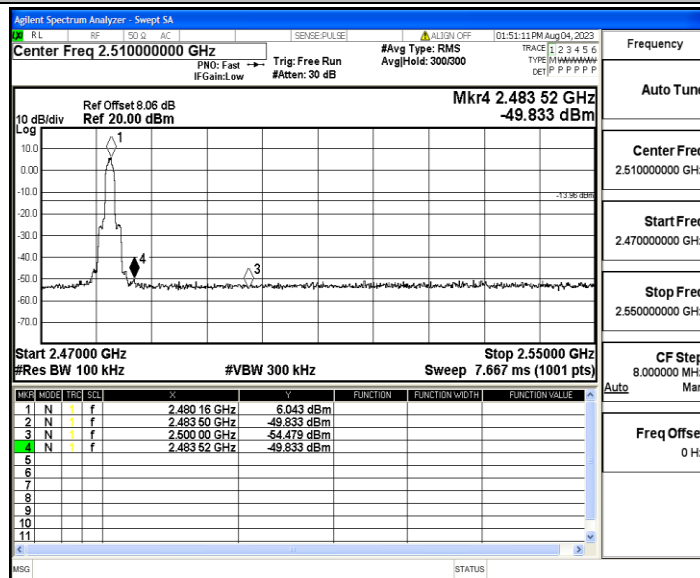
DH5_Ant1_High_Hop_2480



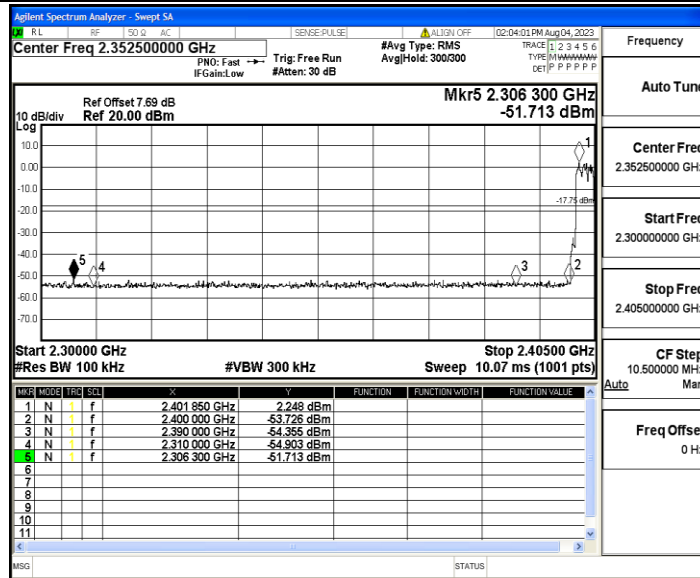
2DH5_Ant1_Low_2402



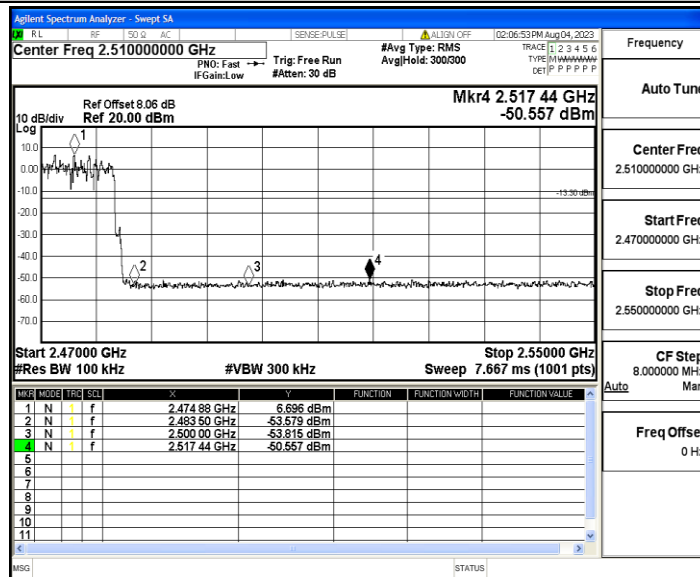
2DH5_Ant1_High_2480



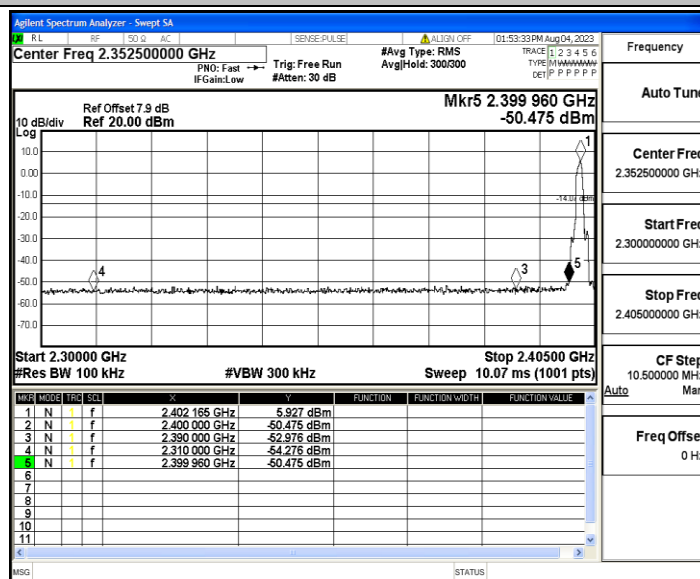
2DH5_Ant1_Low_Hop_2402



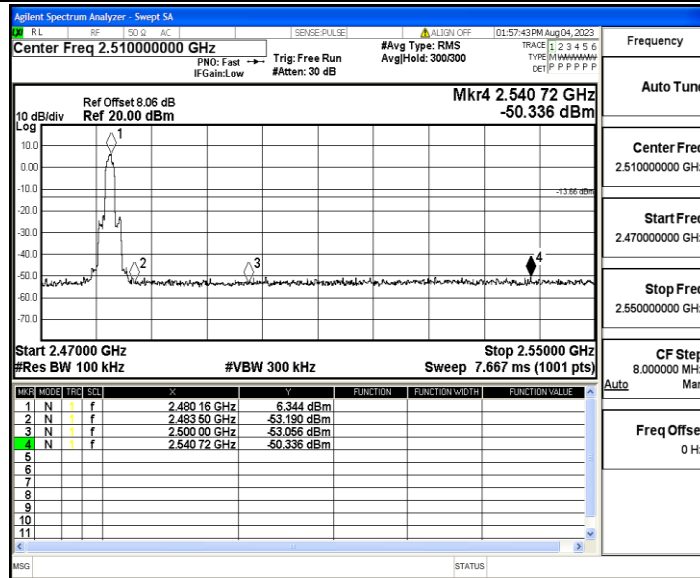
2DH5_Ant1_High_Hop_2480



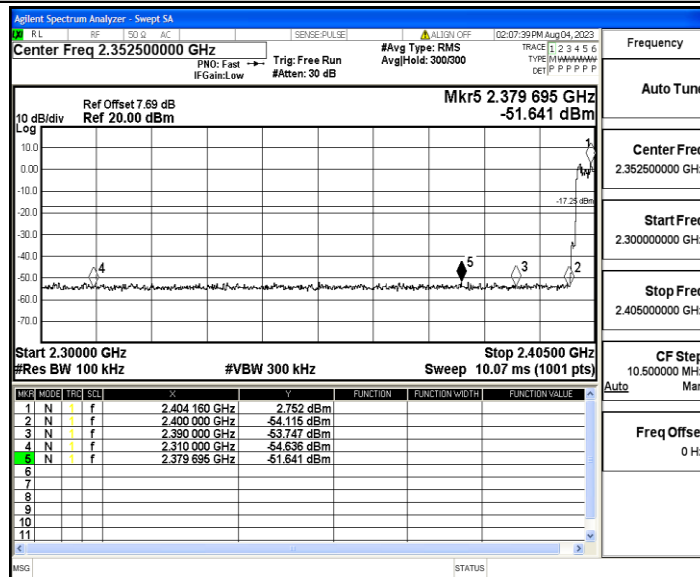
3DH5_Ant1_Low_2402



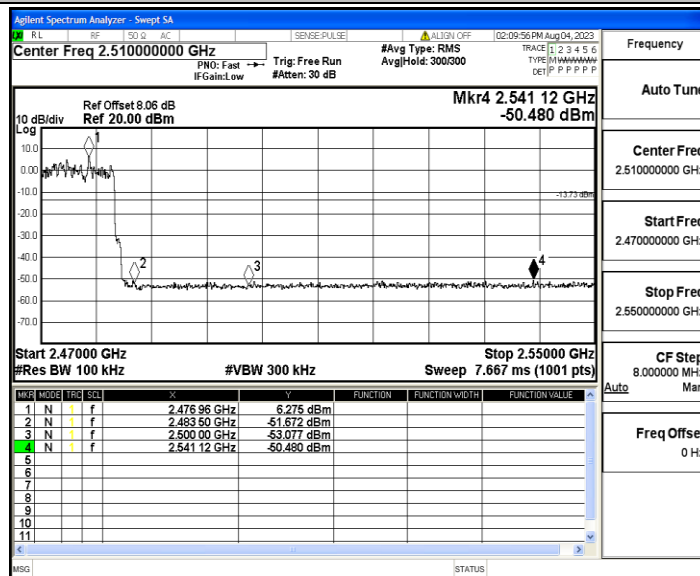
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

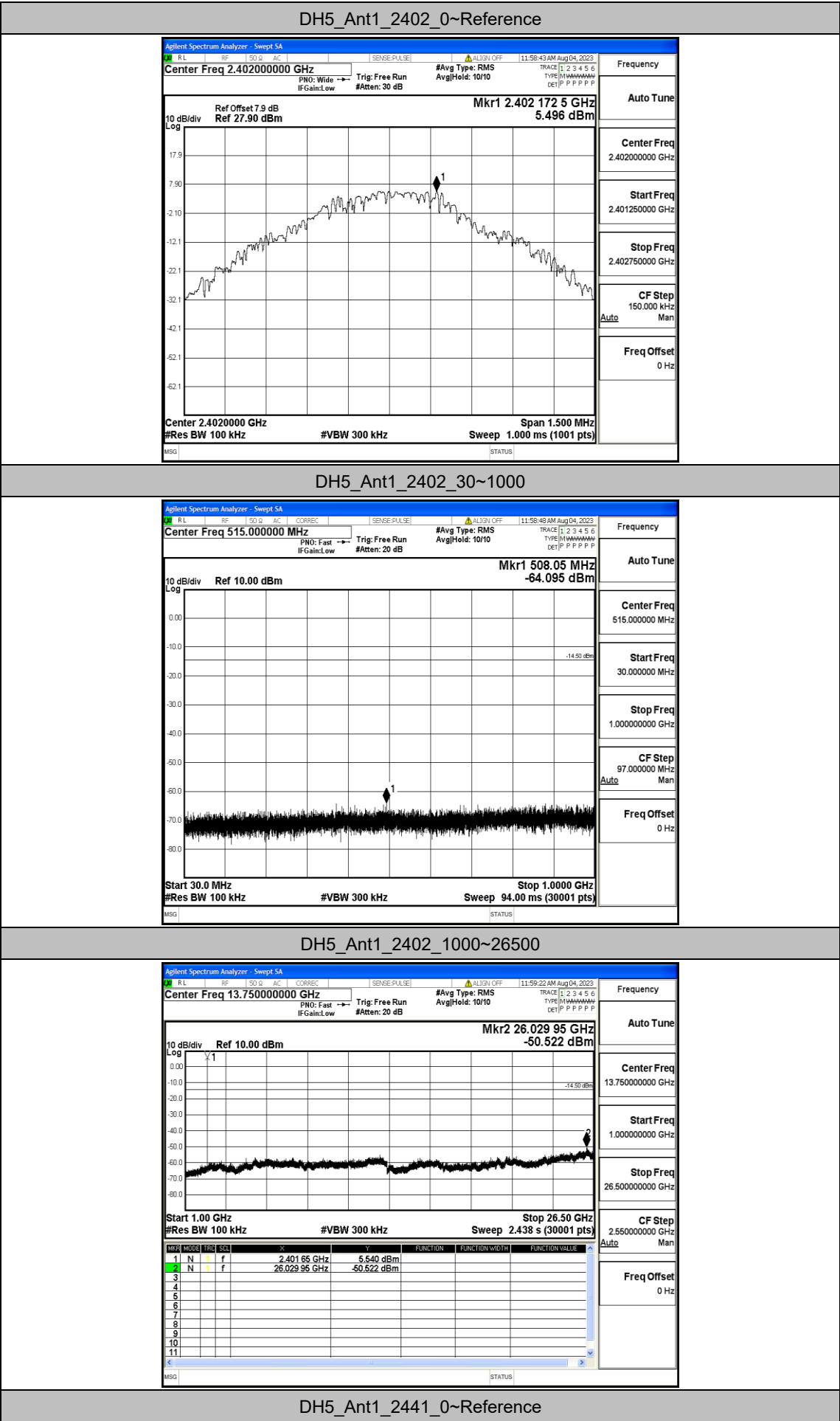


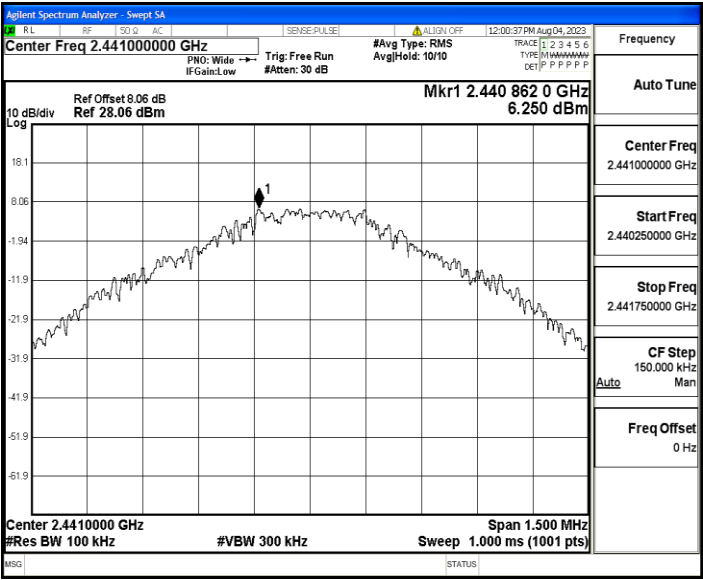
Appendix H: Conducted Spurious Emission

Test Result

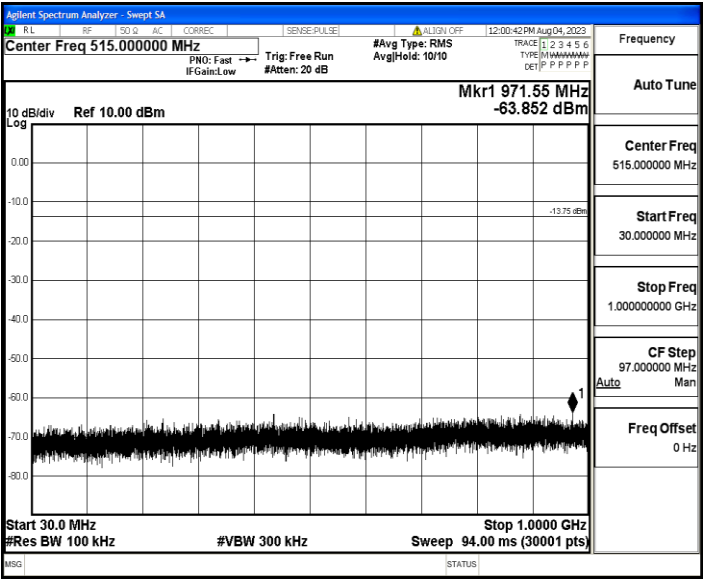
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.50	5.50	---	PASS
			30~1000	5.50	-64.1	≤-14.5	PASS
			1000~26500	5.50	-50.52	≤-14.5	PASS
		2441	Reference	6.25	6.25	---	PASS
			30~1000	6.25	-63.85	≤-13.75	PASS
			1000~26500	6.25	-51.49	≤-13.75	PASS
		2480	Reference	5.81	5.81	---	PASS
			30~1000	5.81	-63.81	≤-14.19	PASS
			1000~26500	5.81	-50.96	≤-14.19	PASS
2DH5	Ant1	2402	Reference	2.81	2.81	---	PASS
			30~1000	2.81	-63.66	≤-17.19	PASS
			1000~26500	2.81	-51.44	≤-17.19	PASS
		2441	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-63.58	≤-16.41	PASS
			1000~26500	3.59	-51.1	≤-16.41	PASS
		2480	Reference	5.50	5.50	---	PASS
			30~1000	5.50	-64.36	≤-14.5	PASS
			1000~26500	5.50	-51.06	≤-14.5	PASS
3DH5	Ant1	2402	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-63.52	≤-16.75	PASS
			1000~26500	3.25	-50.42	≤-16.75	PASS
		2441	Reference	3.77	3.77	---	PASS
			30~1000	3.77	-63.37	≤-16.23	PASS
			1000~26500	3.77	-51.77	≤-16.23	PASS
		2480	Reference	5.40	5.40	---	PASS
			30~1000	5.40	-63.34	≤-14.6	PASS
			1000~26500	5.40	-51.79	≤-14.6	PASS

Test Graphs

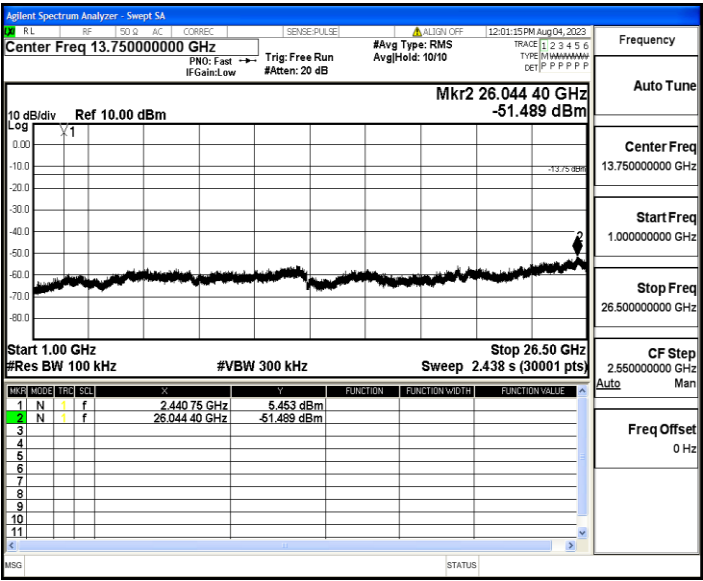




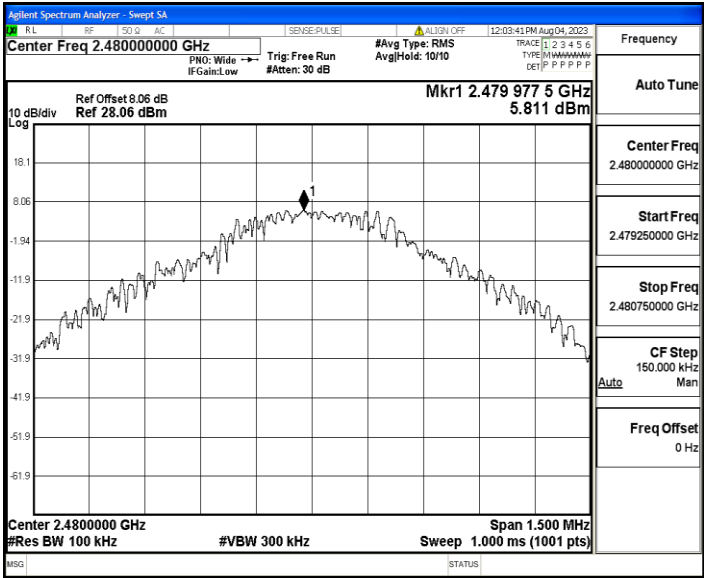
DH5_Ant1_2441_30~1000



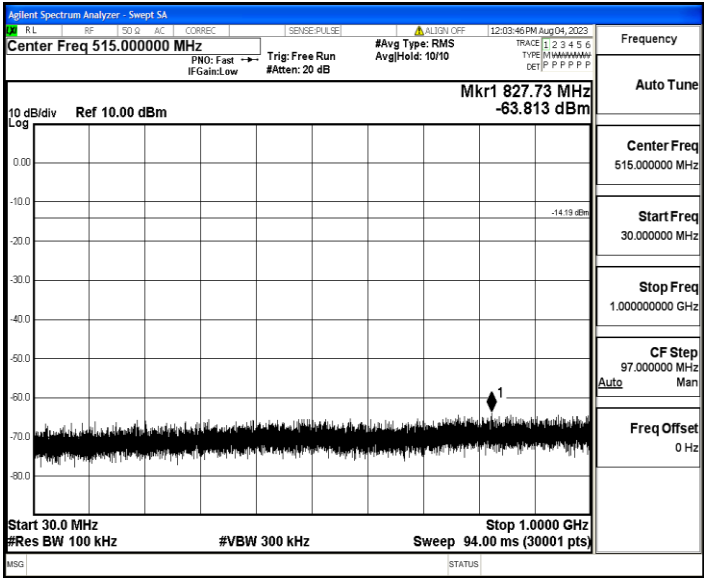
DH5_Ant1_2441_1000~26500



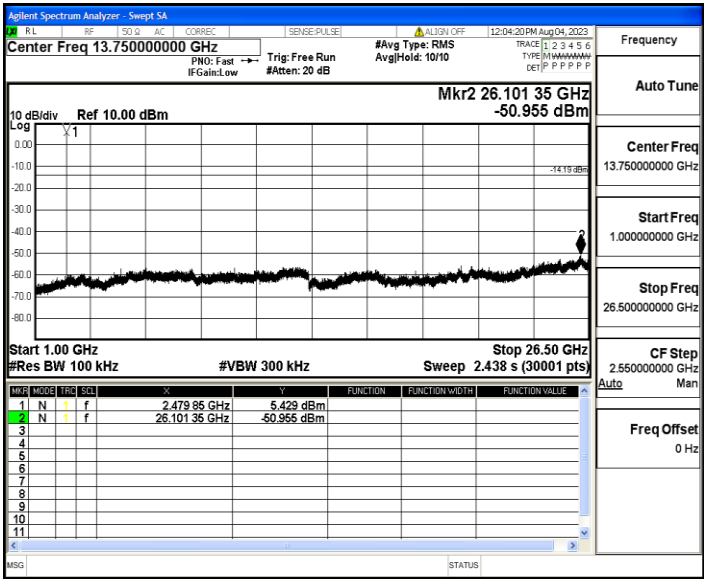
DH5_Ant1_2480_0~Reference



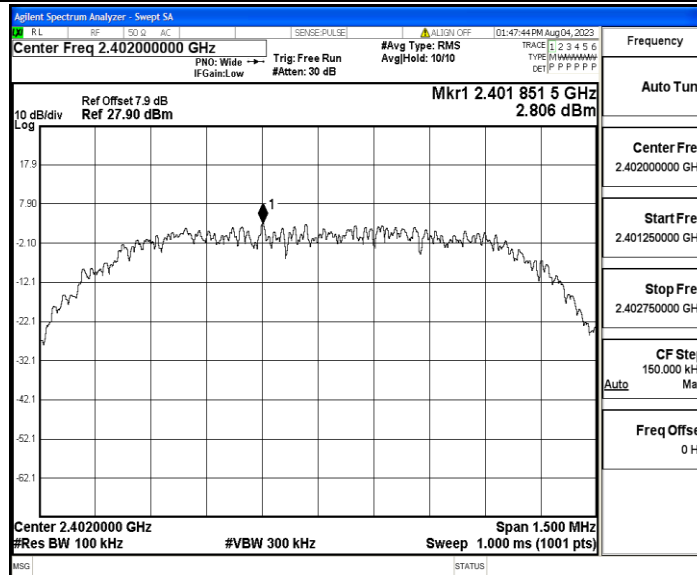
DH5_Ant1_2480_30~1000



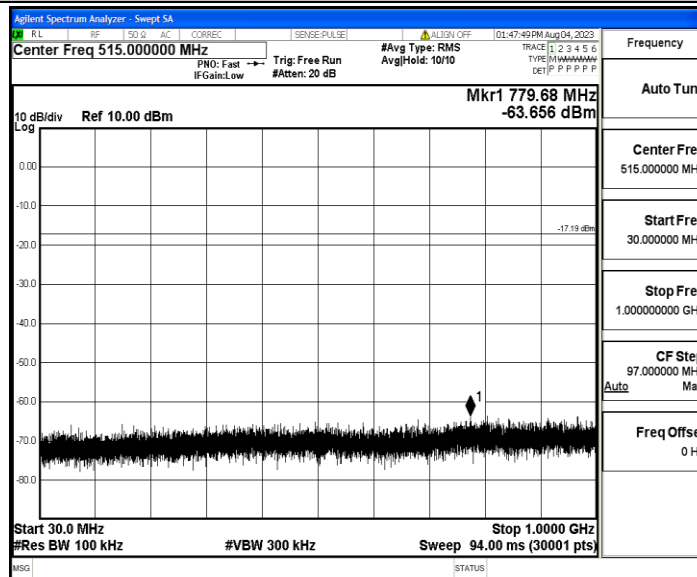
DH5_Ant1_2480_1000~26500



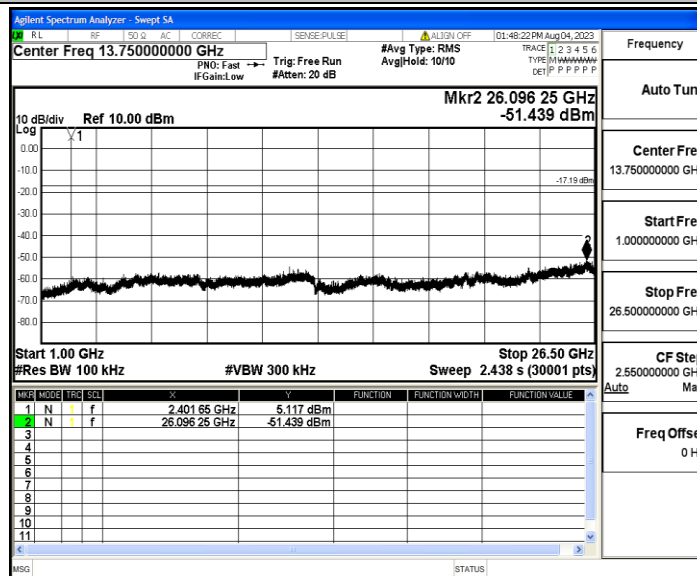
2DH5_Ant1_2402_0~Reference



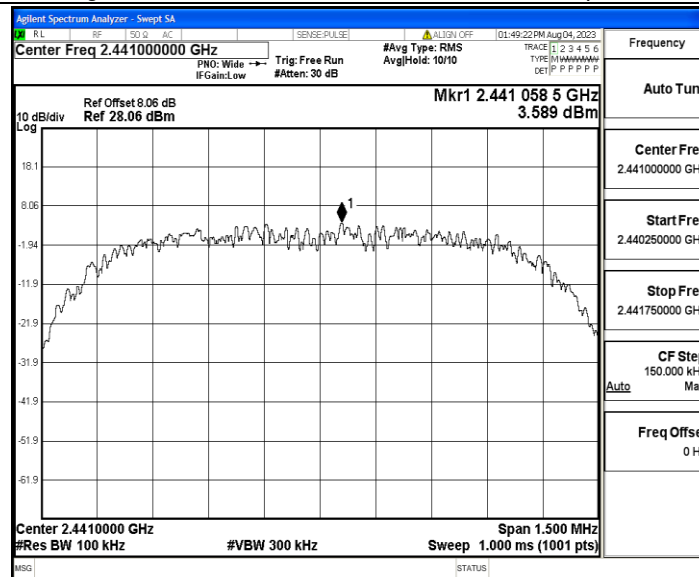
2DH5_Ant1_2402_30~1000



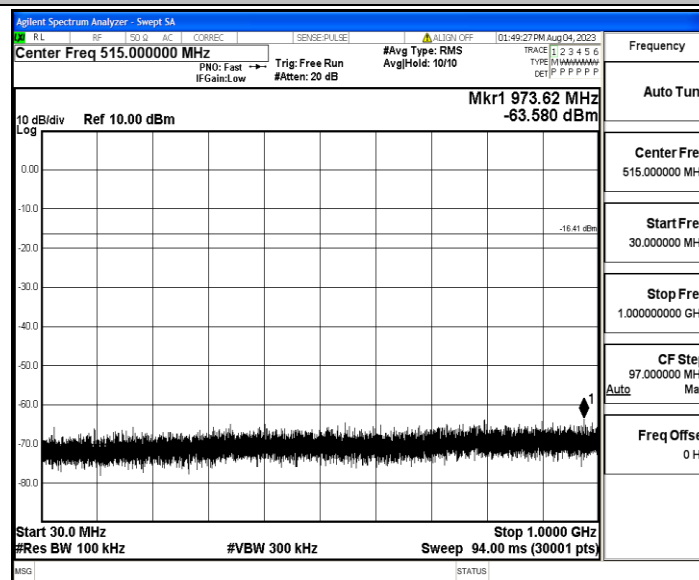
2DH5_Ant1_2402_1000~26500



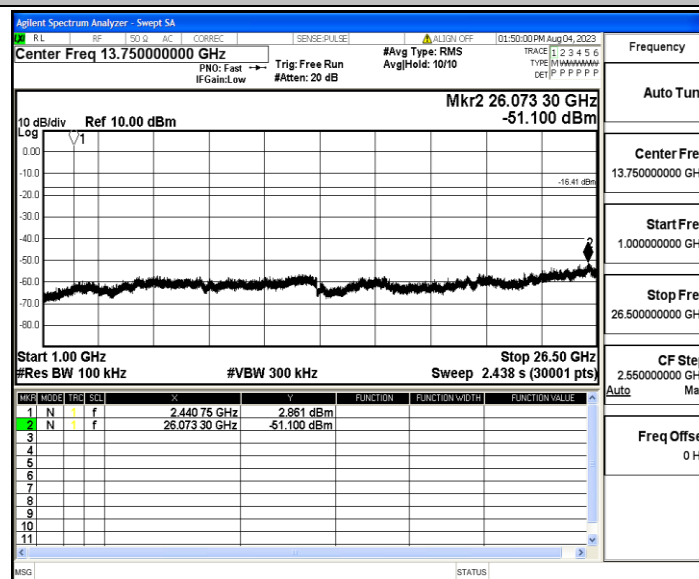
2DH5_Ant1_2441_0~Reference



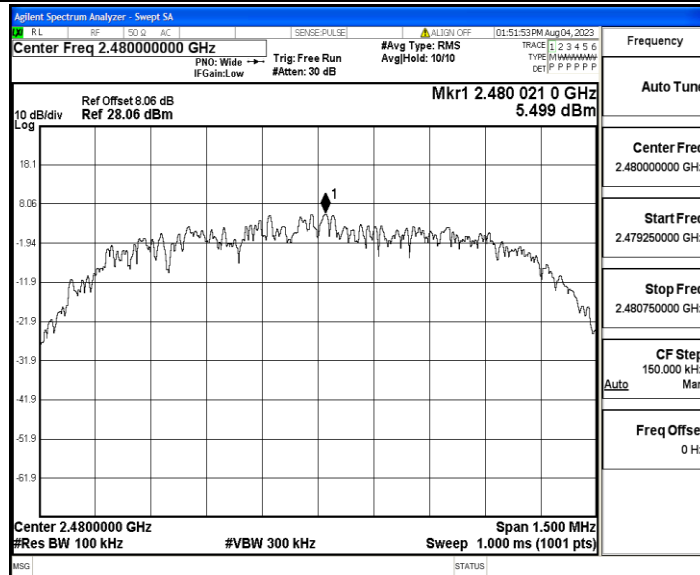
2DH5_Ant1_2441_30~1000



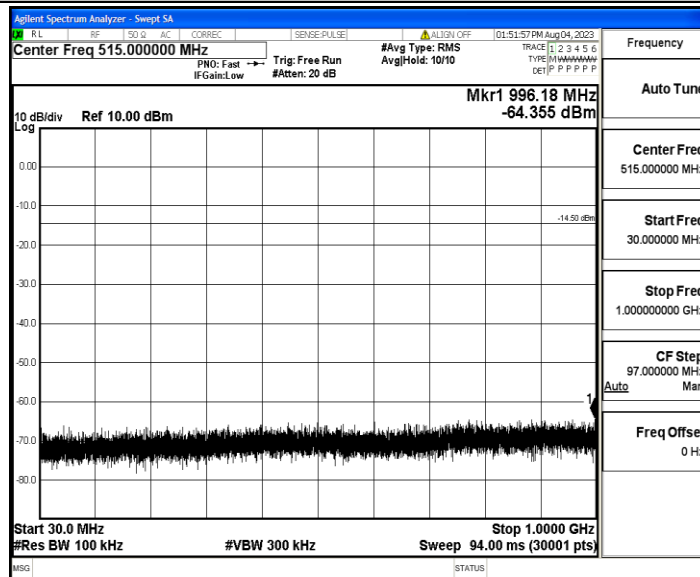
2DH5_Ant1_2441_1000~26500



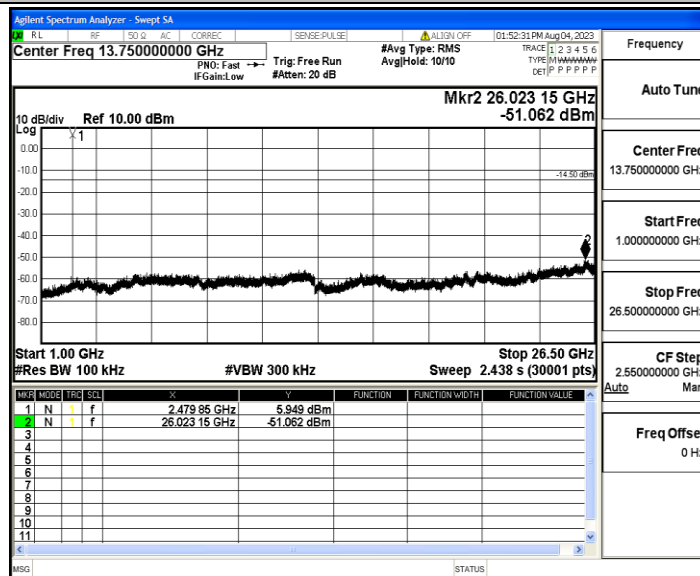
2DH5_Ant1_2480_0~Reference



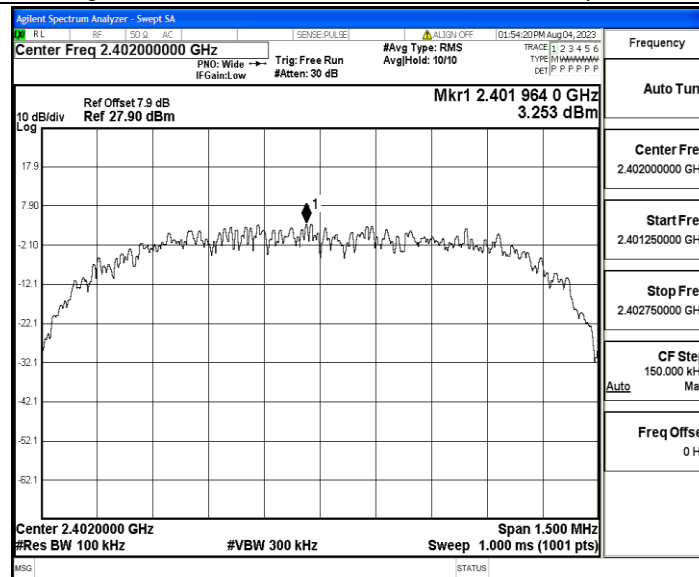
2DH5_Ant1_2480_30~1000



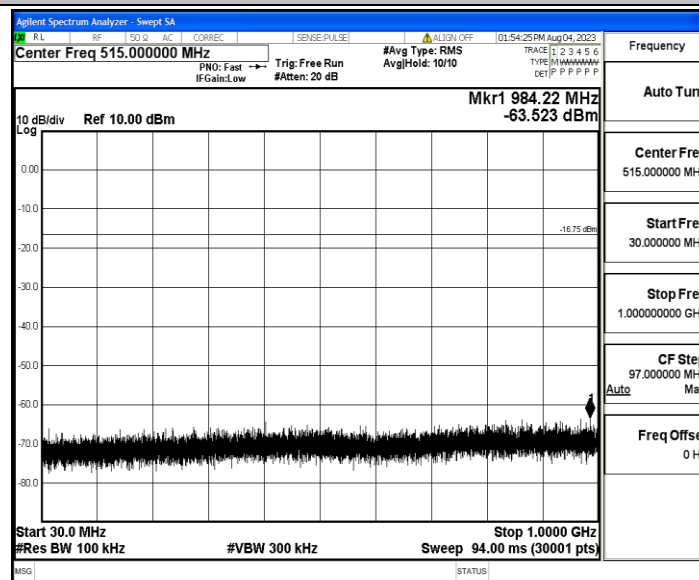
2DH5_Ant1_2480_1000~26500



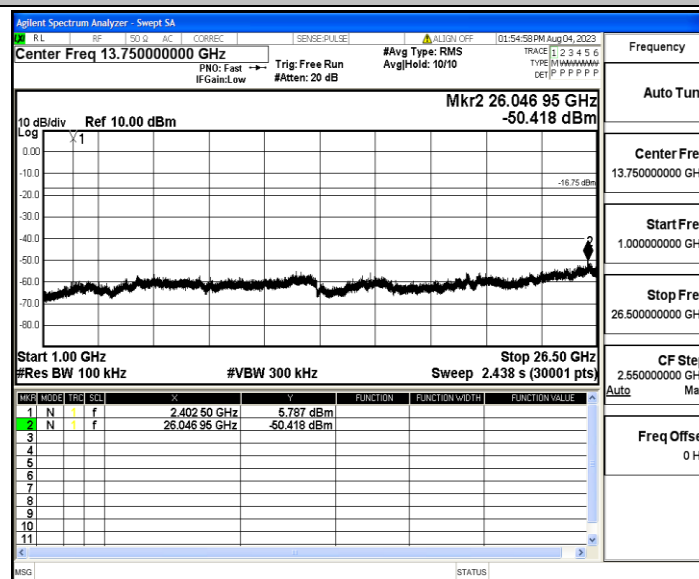
3DH5_Ant1_2402_0~Reference



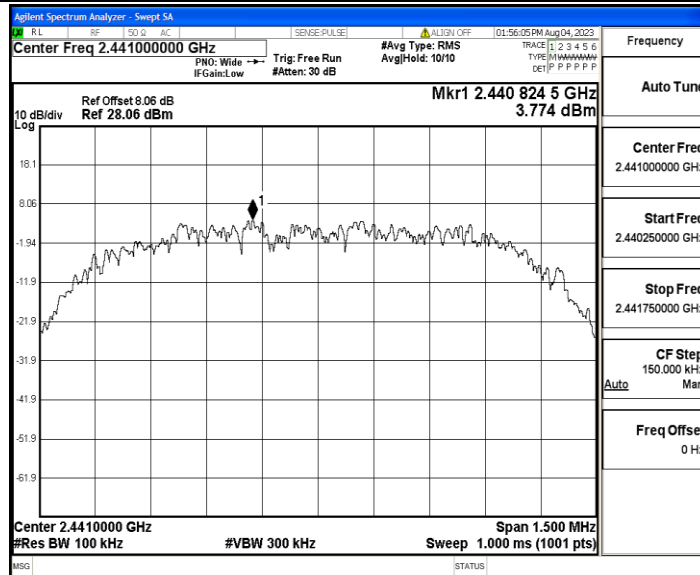
3DH5_Ant1_2402_30~1000



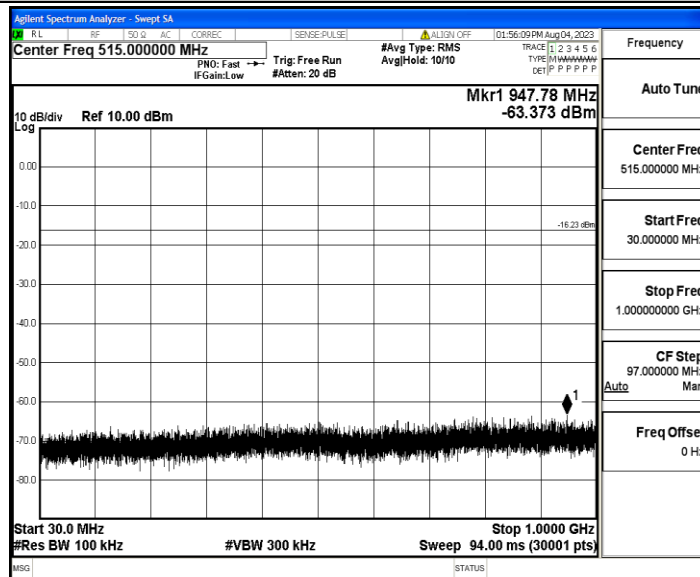
3DH5_Ant1_2402_1000~26500



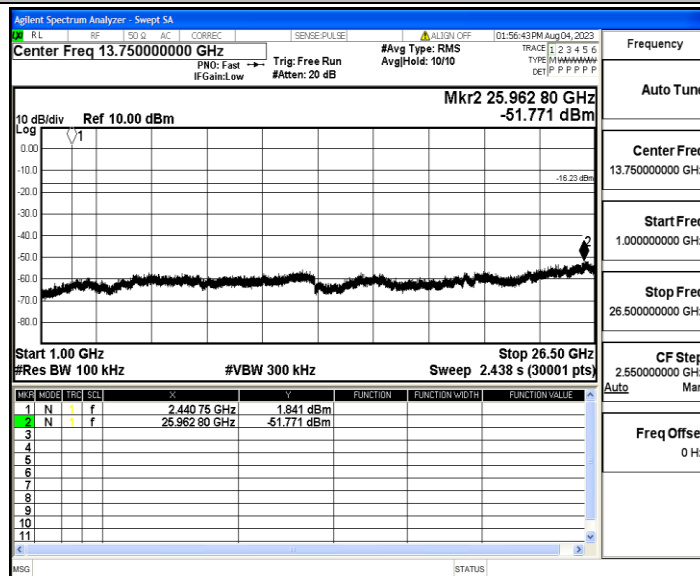
3DH5_Ant1_2441_0~Reference



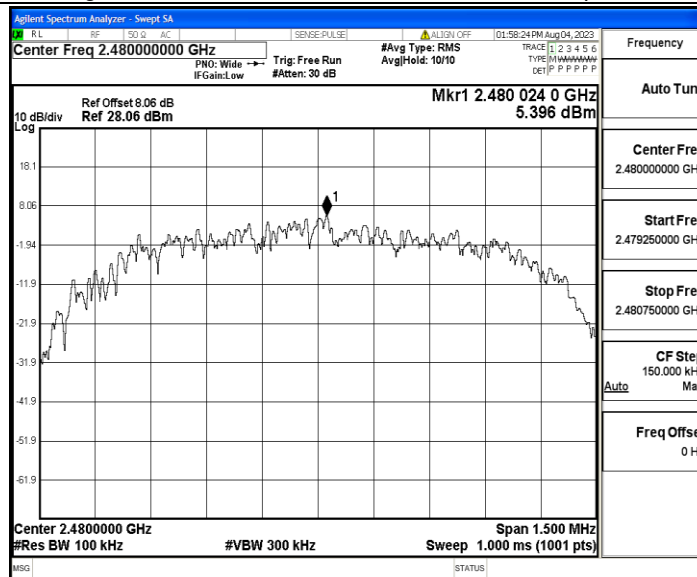
3DH5_Ant1_2441_30~1000



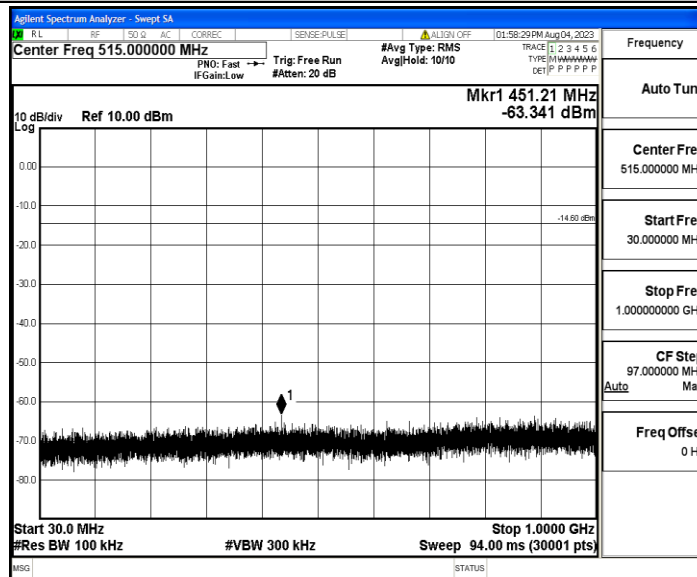
3DH5_Ant1_2441_1000~26500



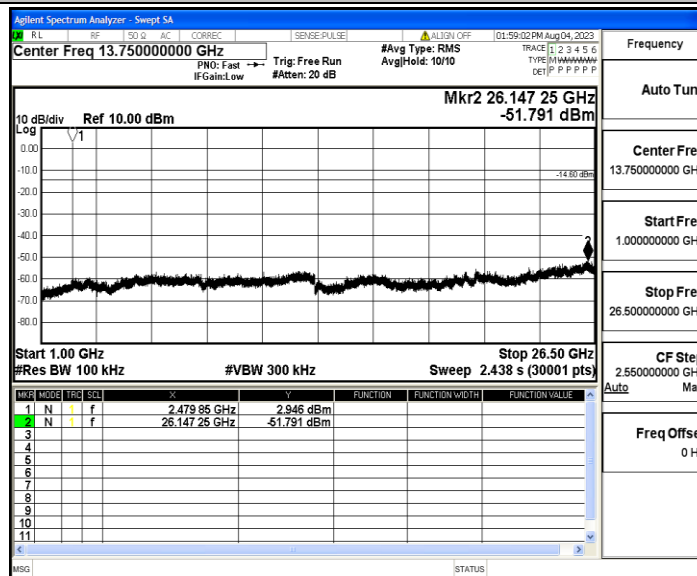
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



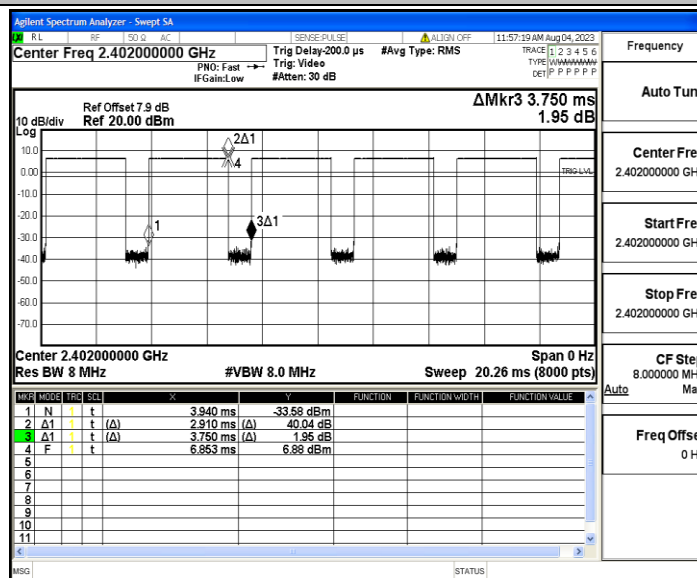
Appendix I: Duty Cycle

Test Result

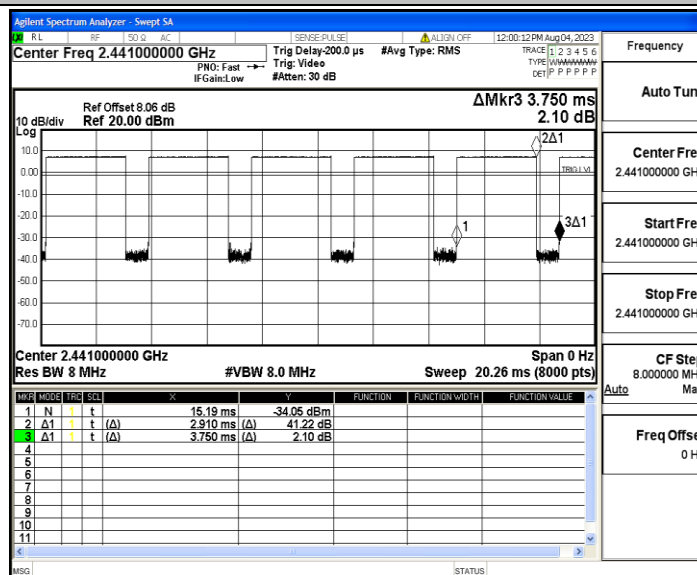
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.91	3.75	77.60	0.34
		2441	2.91	3.75	77.60	0.34
		2480	2.90	3.74	77.54	0.34
2DH5	Ant1	2402	2.76	3.61	76.45	0.36
		2441	2.76	3.61	76.45	0.36
		2480	2.76	3.61	76.45	0.36
3DH5	Ant1	2402	2.75	3.60	76.39	0.36
		2441	2.75	3.60	76.39	0.36
		2480	2.75	3.60	76.39	0.36

Test Graphs

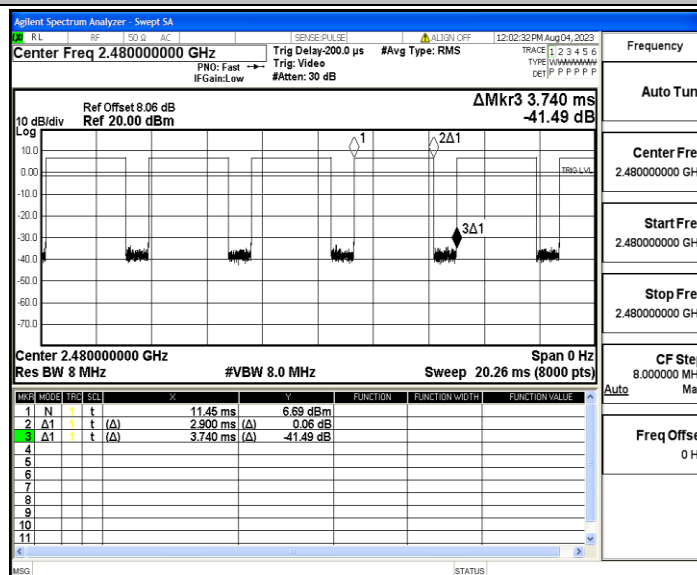
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402