

RF Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: Kids music headphone****Trade Mark: SHON****Test Model: SH100BT****FCC ID: 2A74M-SH100BT****Environmental Conditions**

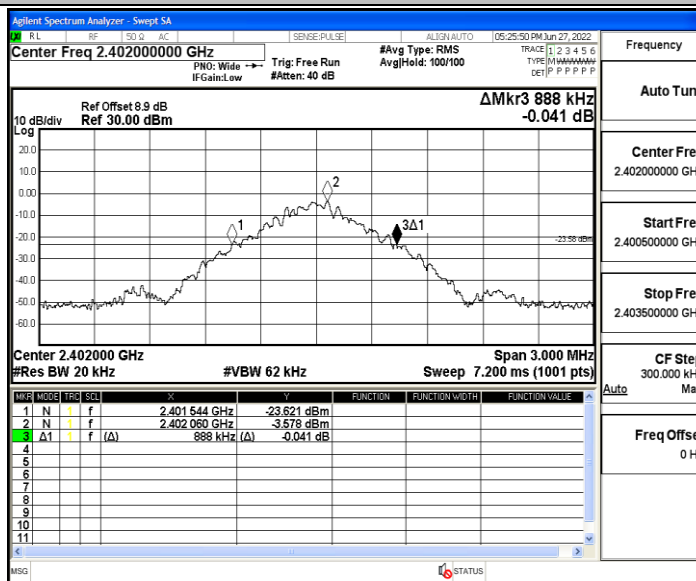
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

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

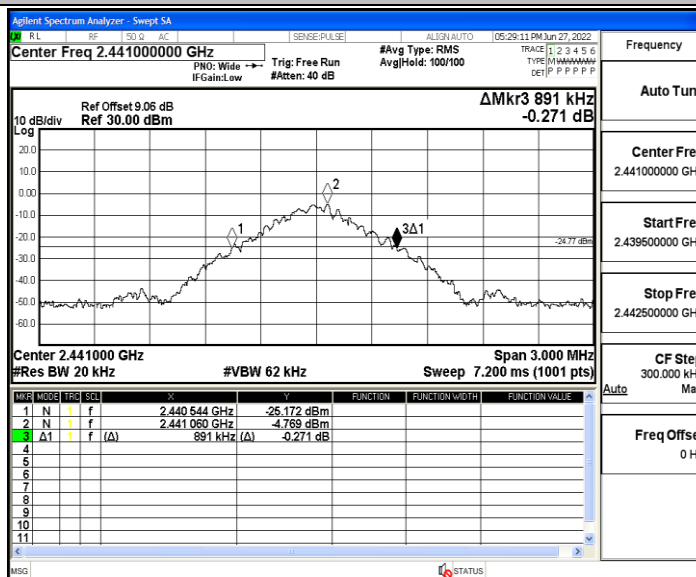
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.888	2401.544	2402.432	---	---
		2441	0.891	2440.544	2441.435	---	---
		2480	0.891	2479.541	2480.432	---	---
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	---
		2441	1.344	2440.334	2441.678	---	---
		2480	1.326	2479.337	2480.663	---	---
3DH5	Ant1	2402	1.236	2401.370	2402.606	---	---
		2441	1.233	2440.370	2441.603	---	---
		2480	1.173	2479.430	2480.603	---	---

Test Graphs

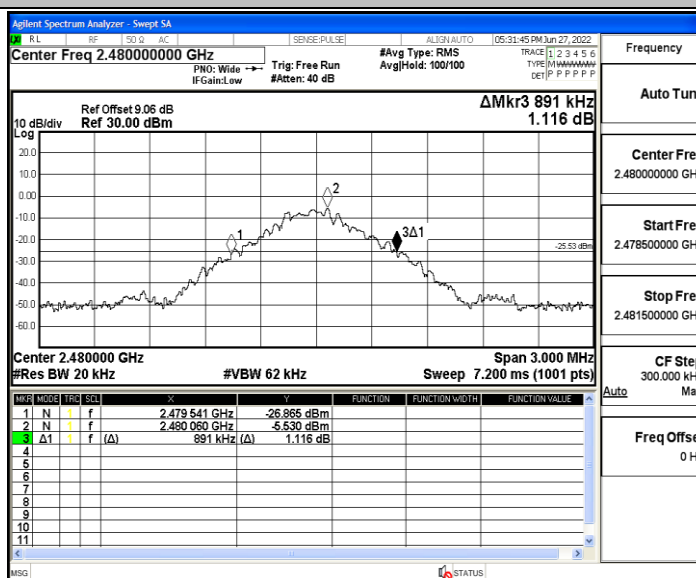
DH5_Ant1_2402



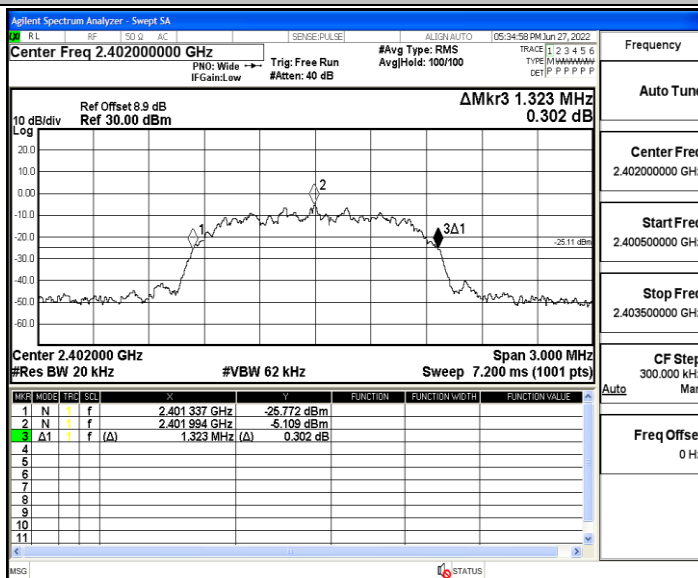
DH5_Ant1_2441



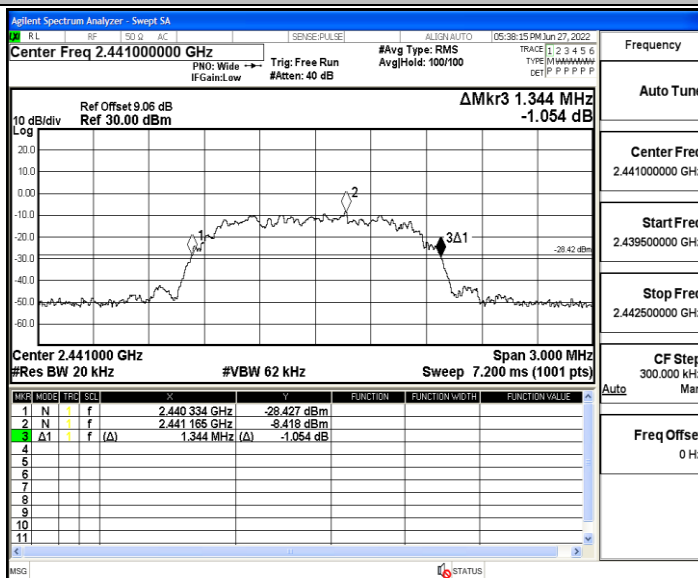
DH5_Ant1_2480



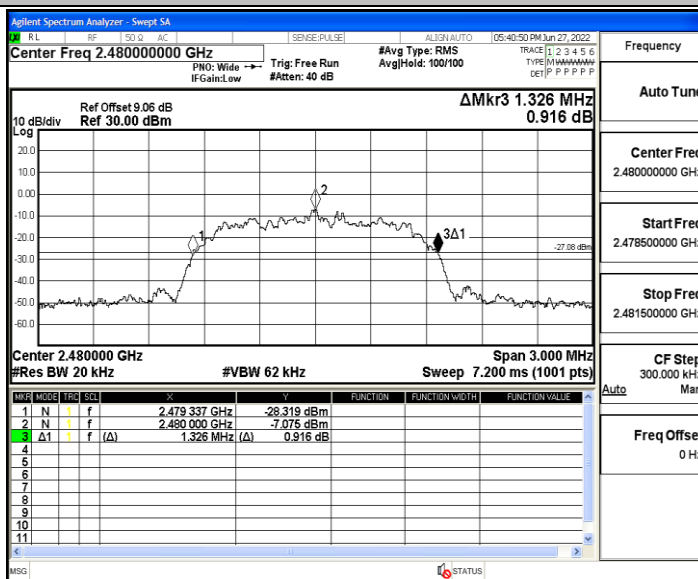
2DH5_Ant1_2402



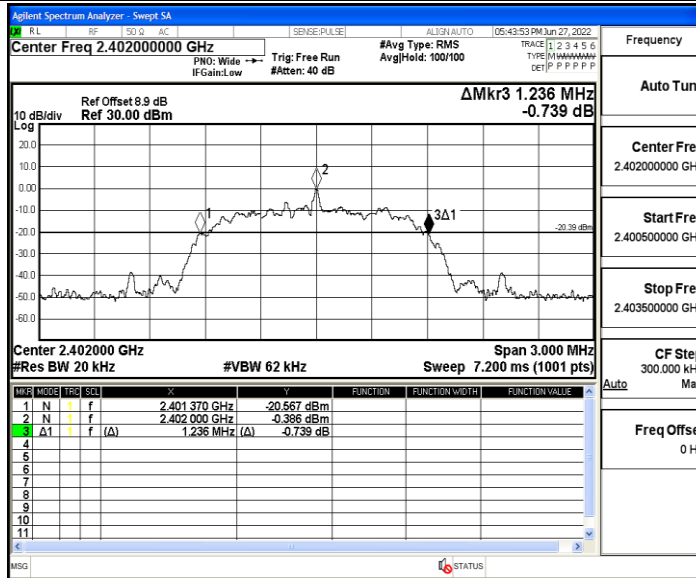
2DH5_Ant1_2441



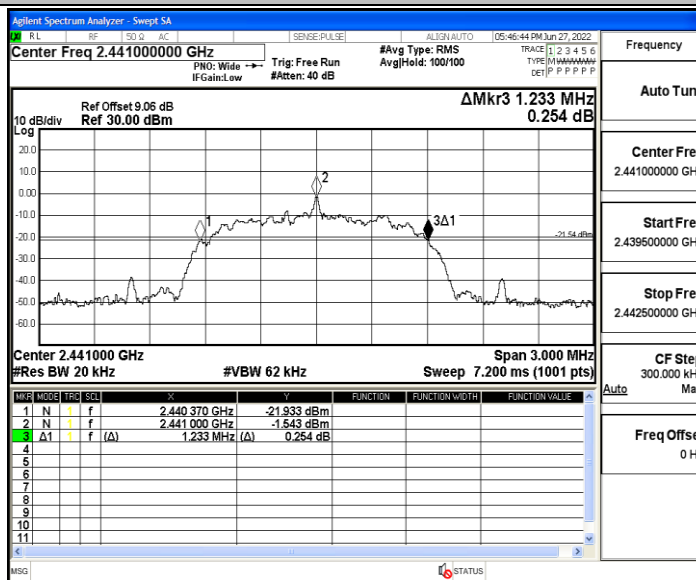
2DH5_Ant1_2480



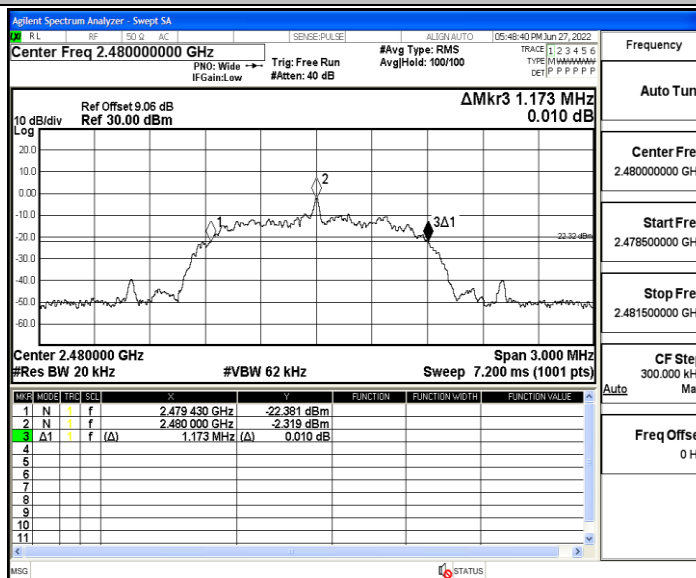
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



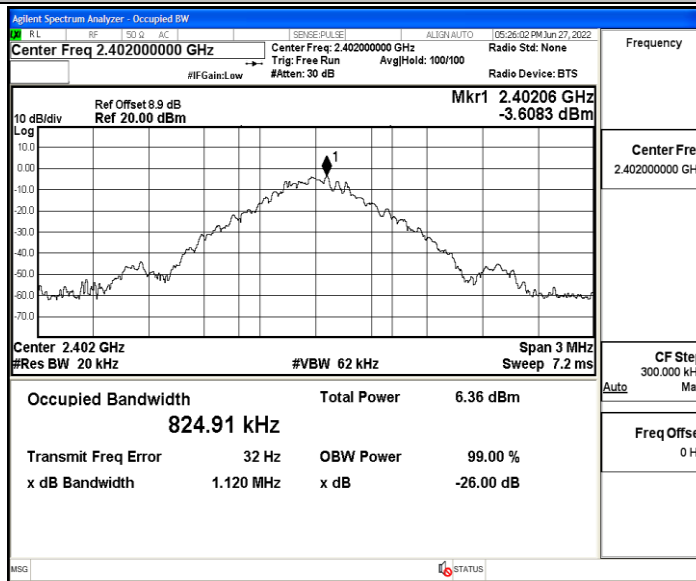
Appendix B: Occupied Channel Bandwidth

Test Result

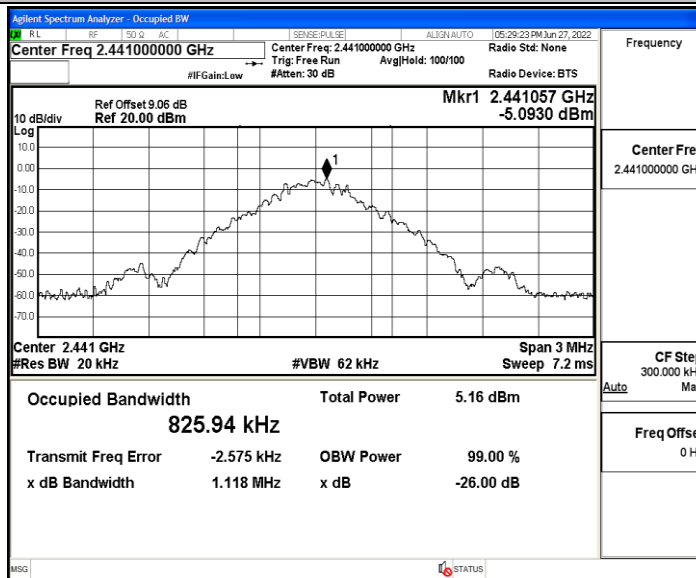
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.82491	2401.588	2402.412	---	---
		2441	0.82594	2440.584	2441.410	---	---
		2480	0.84112	2479.578	2480.419	---	---
2DH5	Ant1	2402	1.1786	2401.411	2402.589	---	---
		2441	1.1816	2440.409	2441.591	---	---
		2480	1.1784	2479.411	2480.589	---	---
3DH5	Ant1	2402	1.1657	2401.417	2402.583	---	---
		2441	1.1691	2440.413	2441.582	---	---
		2480	1.1620	2479.421	2480.583	---	---

Test Graphs

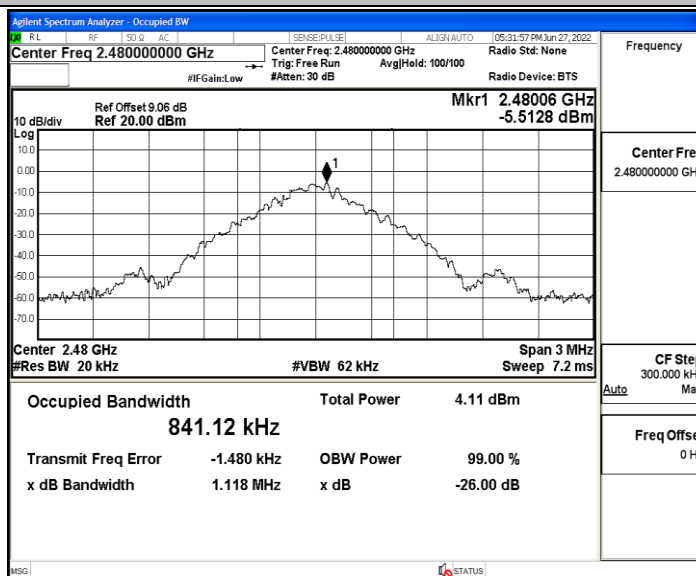
DH5_Ant1_2402



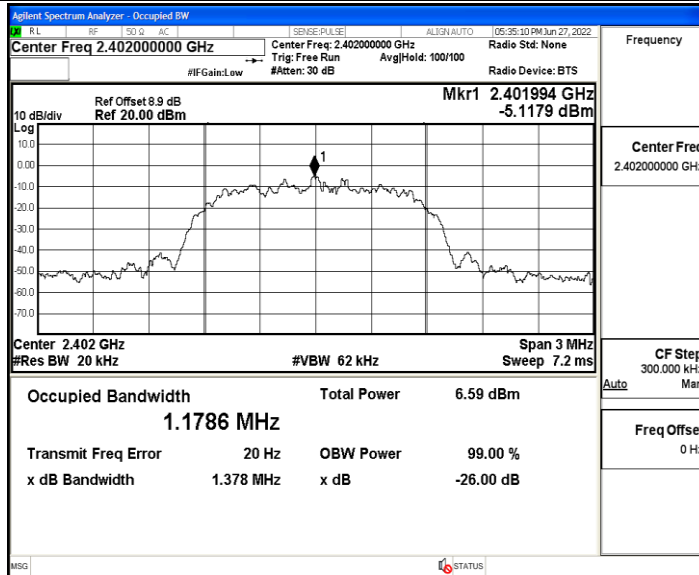
DH5_Ant1_2441



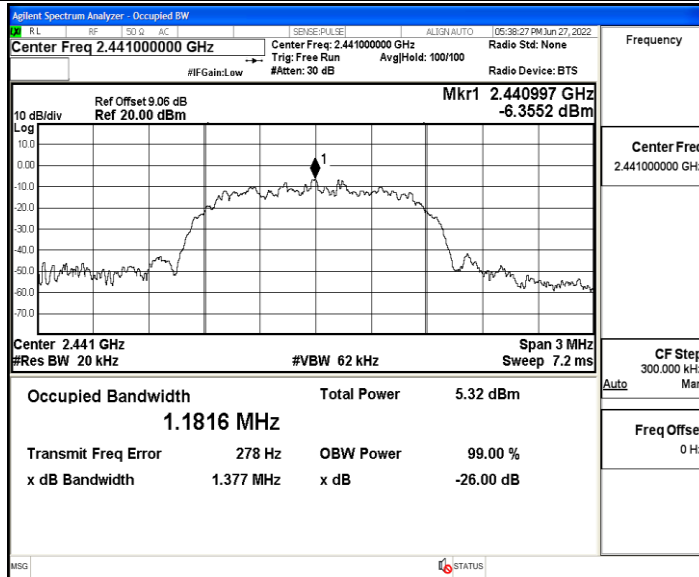
DH5_Ant1_2480



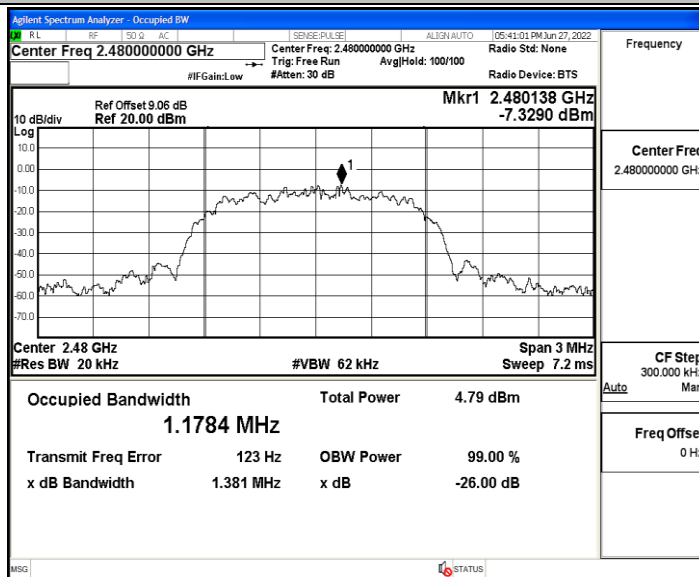
2DH5_Ant1_2402



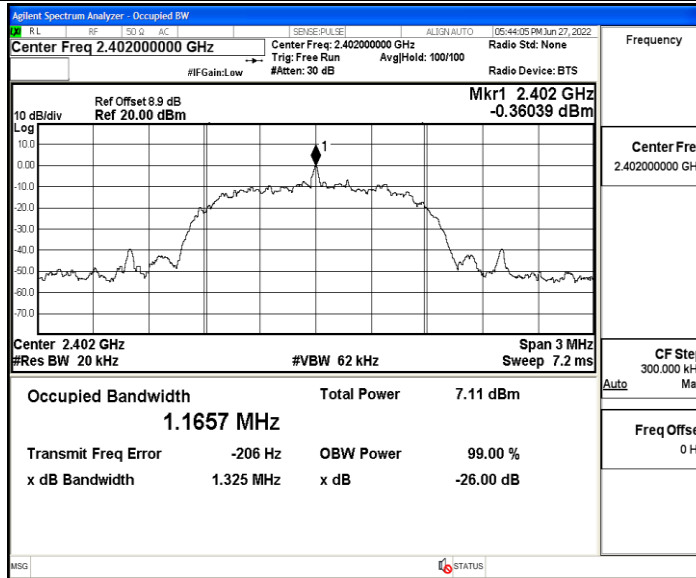
2DH5_Ant1_2441



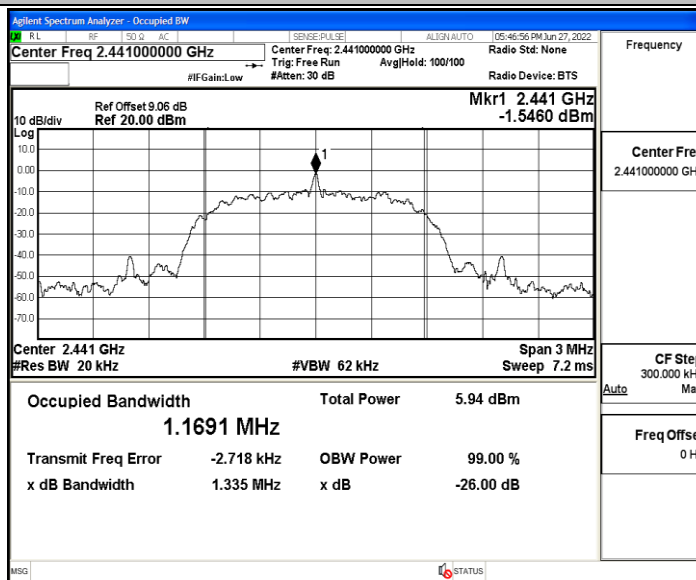
2DH5_Ant1_2480



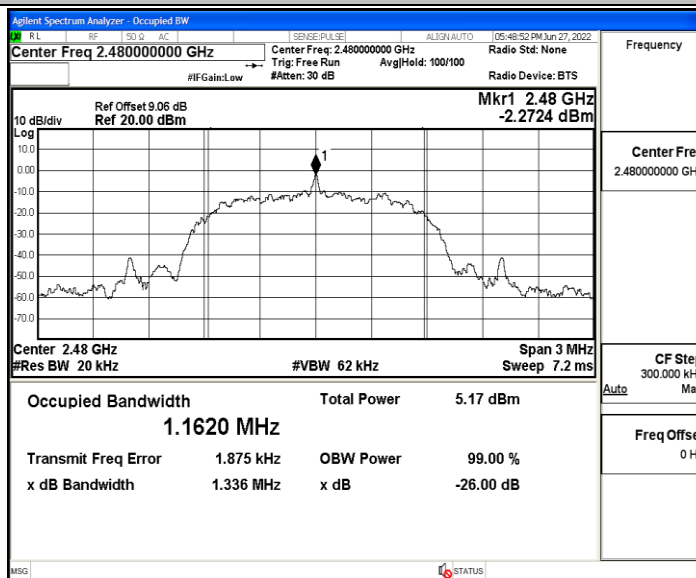
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

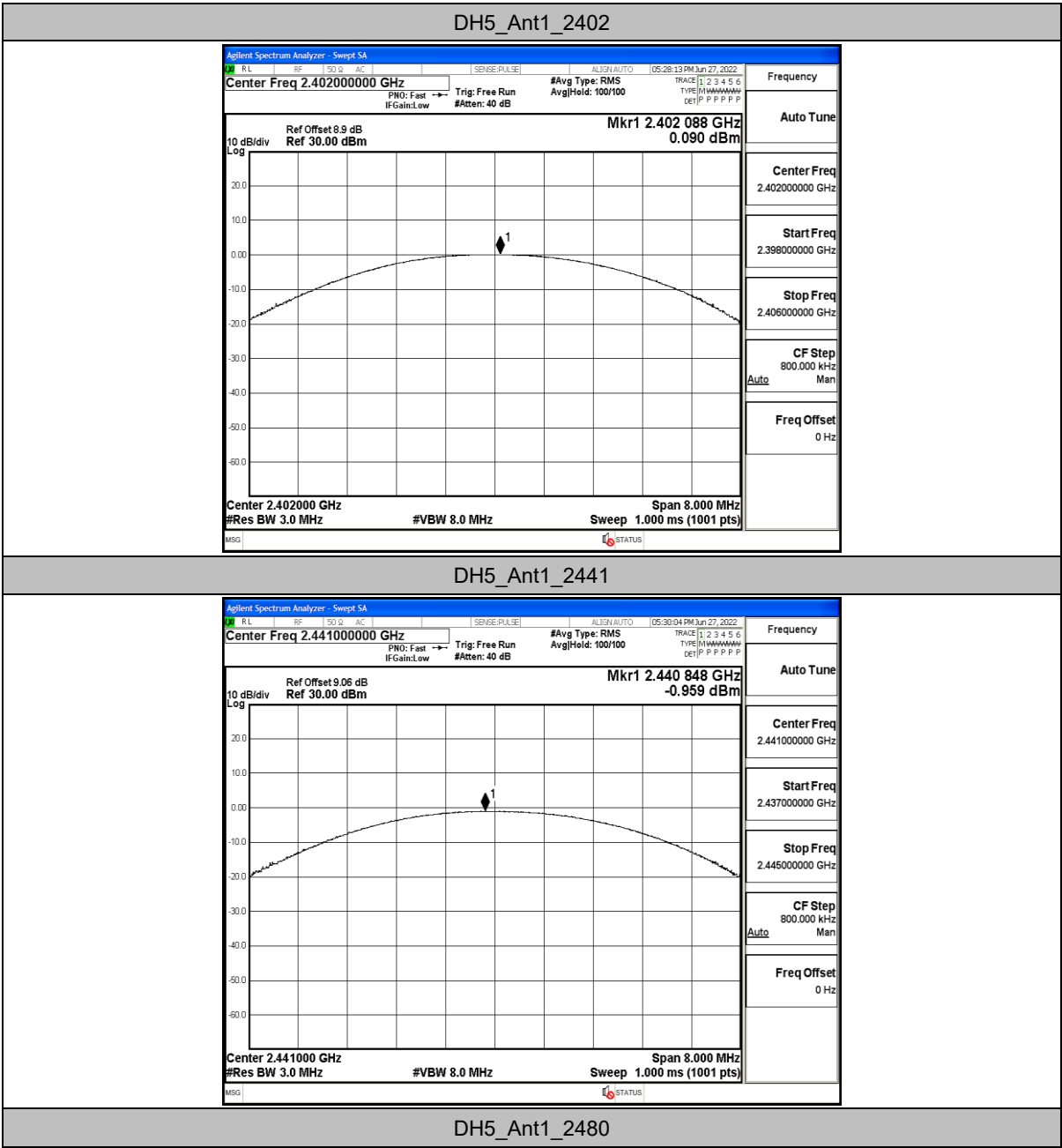


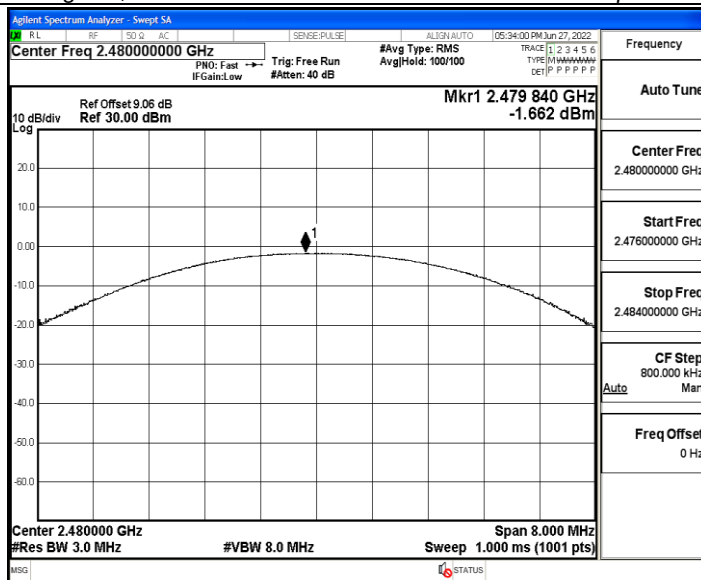
Appendix C: Maximum Peak conducted output power

Test Result

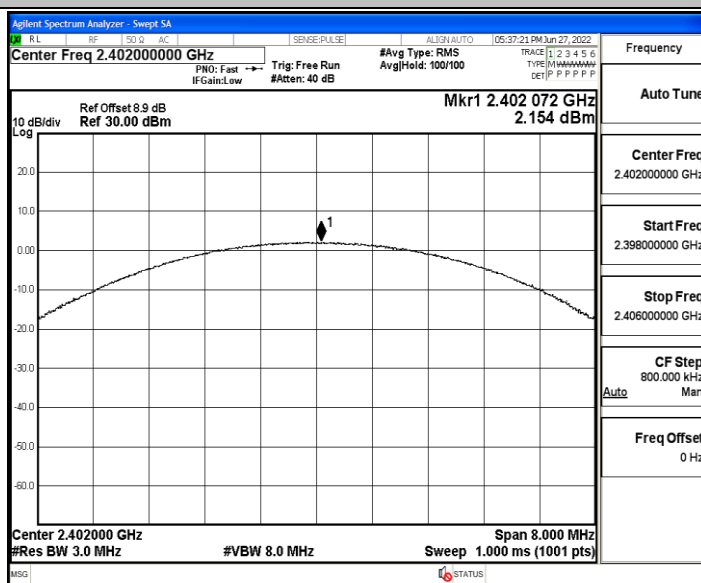
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.09	≤20.97	PASS
		2441	-0.96	≤20.97	PASS
		2480	-1.66	≤20.97	PASS
2DH5	Ant1	2402	2.15	≤20.97	PASS
		2441	1.07	≤20.97	PASS
		2480	0.35	≤20.97	PASS
3DH5	Ant1	2402	2.6	≤20.97	PASS
		2441	1.59	≤20.97	PASS
		2480	0.85	≤20.97	PASS

Test Graphs

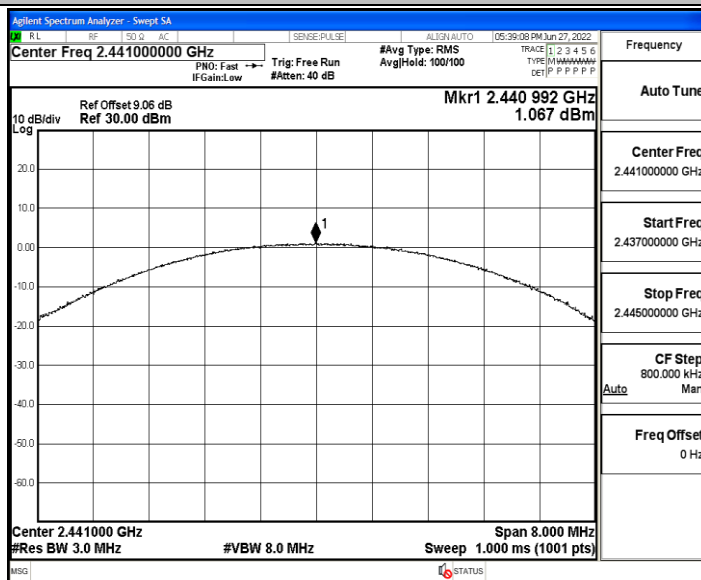




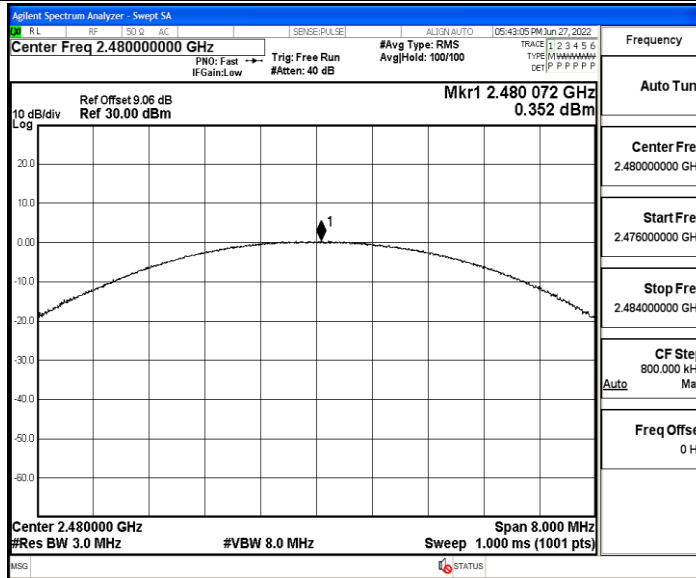
2DH5_Ant1_2402



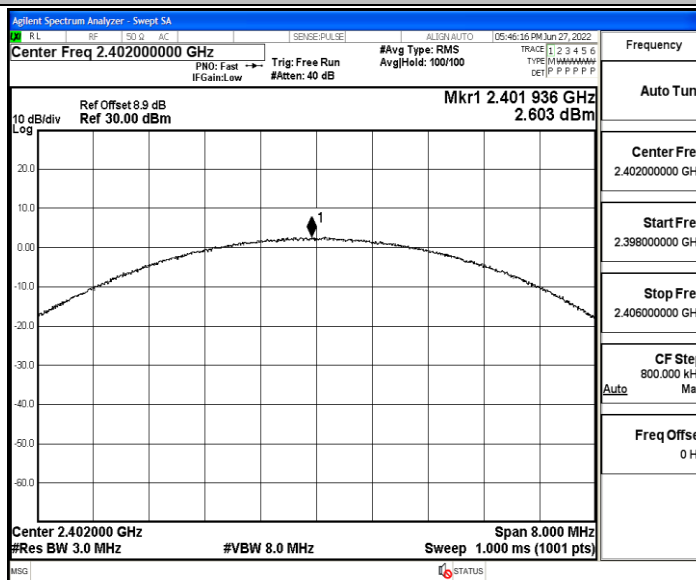
2DH5_Ant1_2441



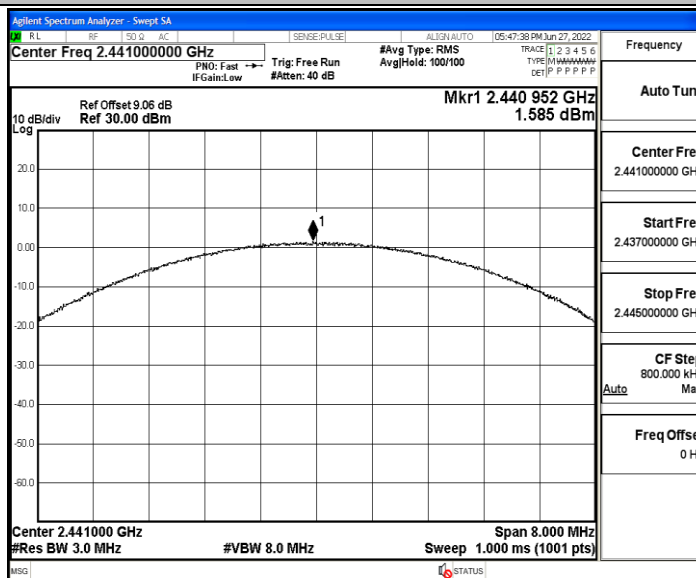
2DH5_Ant1_2480



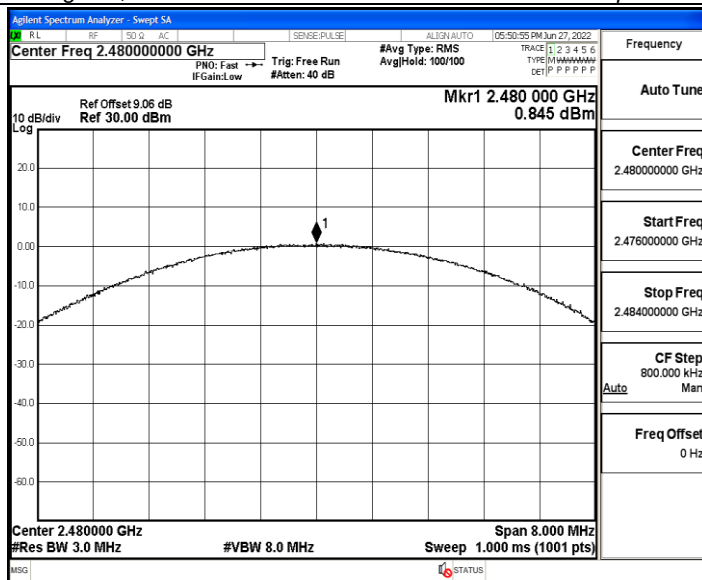
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



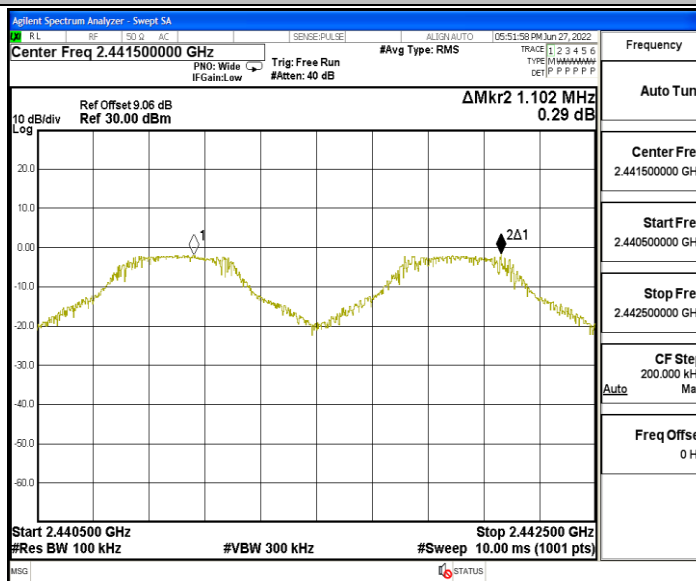
Appendix D: Carrier frequency separation

Test Result

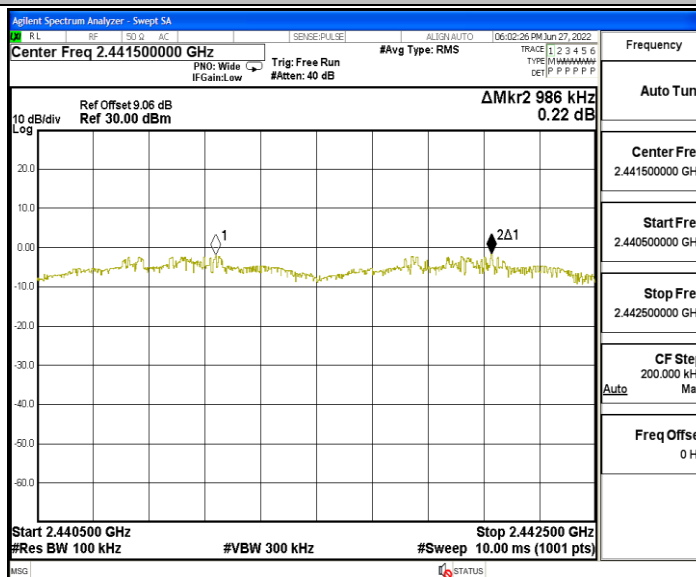
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.102	≥ 0.891	PASS
2DH5	Ant1	Hop	0.986	≥ 0.896	PASS
3DH5	Ant1	Hop	0.998	≥ 0.824	PASS

Test Graphs

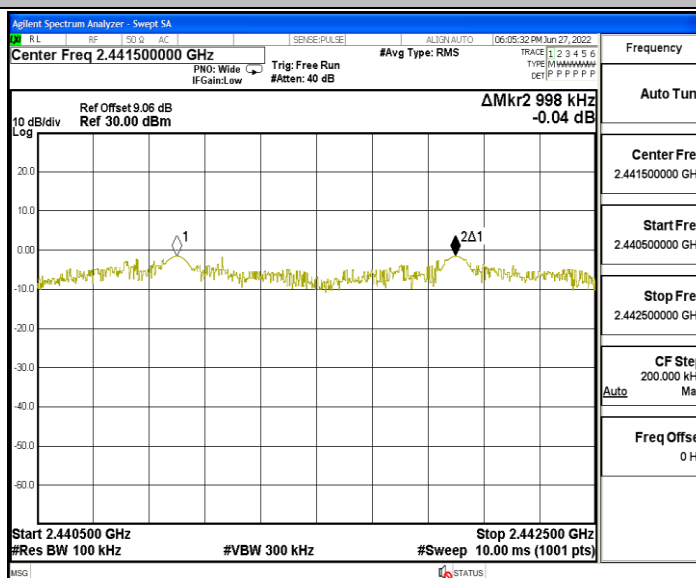
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

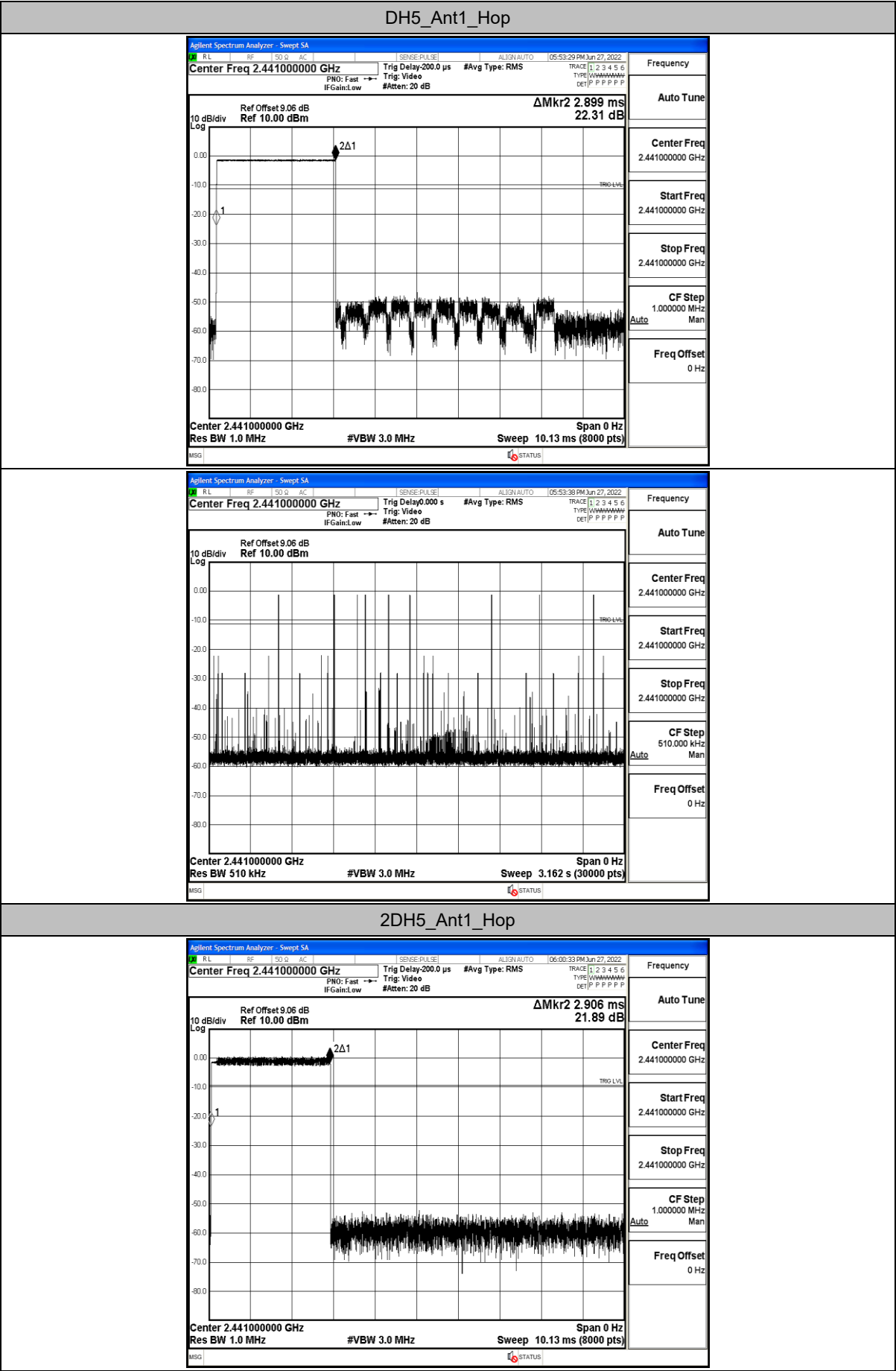


Appendix E: Time of occupancy

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	110	0.32	≤0.4	PASS
3DH5	Ant1	Hop	2.91	130	0.378	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop

Agilent Spectrum Analyzer - Swept SA

RLRF50QACSENSE:PULSEALIGN:AUTO06:00:33 PM Jun 27, 2022

Center Freq 2.441000000 GHzTrig Delay:200.0 μ s#Avg Type: RMS

PNO: FastIF Gain:Low#Atten: 20 dB

10 dB/divLogRef Offset:9.06 dBRef 10.00 dBm

0.00-10.0-20.0-30.0-40.0-50.0-60.0-70.0-80.0

0.001.002.003.004.005.006.007.008.009.0010.00

12 Δ 1

TRIG LVL

Center 2.441000000 GHzRes BW 1.0 MHz#VBW 3.0 MHzSweep 10.13 ms (8000 pts)Span 0 Hz

MSGSTATUS

Frequency

Auto Tune

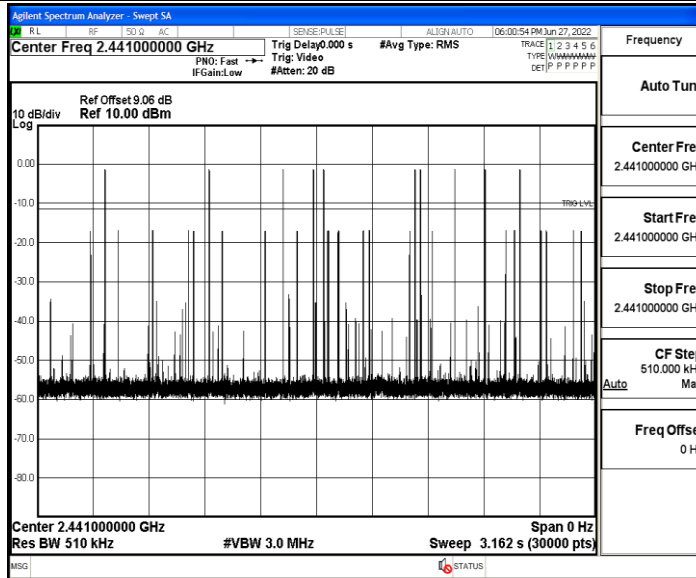
Center Freq2.441000000 GHz

Start Freq2.441000000 GHz

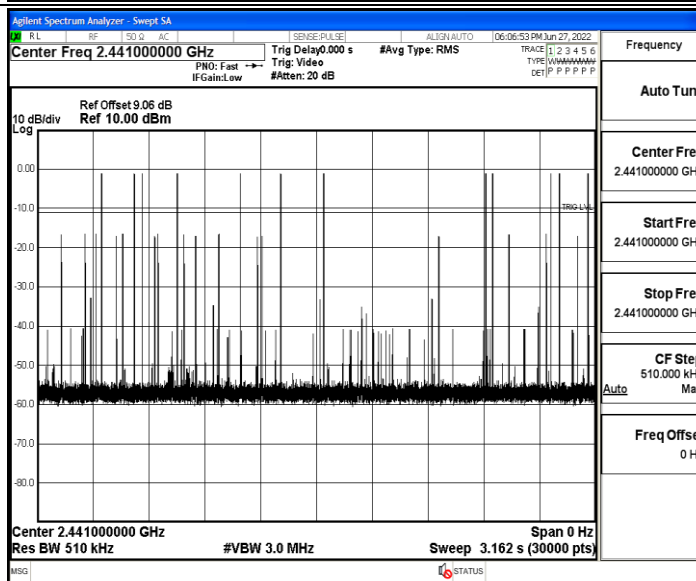
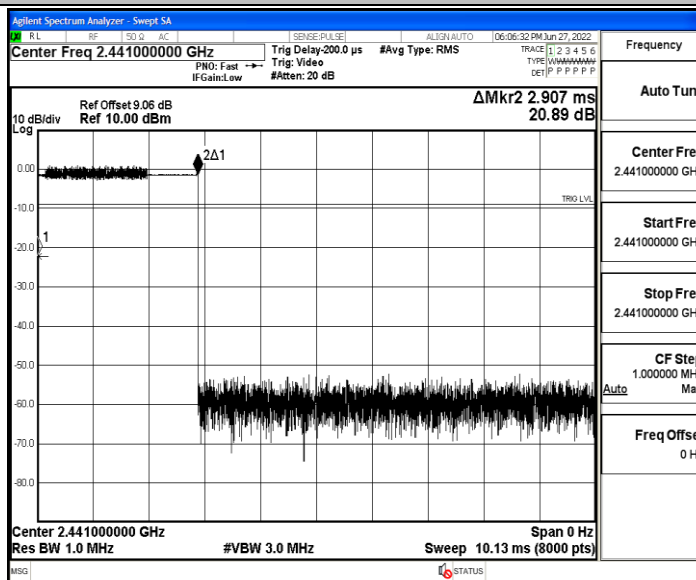
Stop Freq2.441000000 GHz

CF Step1.000000 MHzAutoMan

Freq Offset0 Hz



3DH5_Ant1_Hop



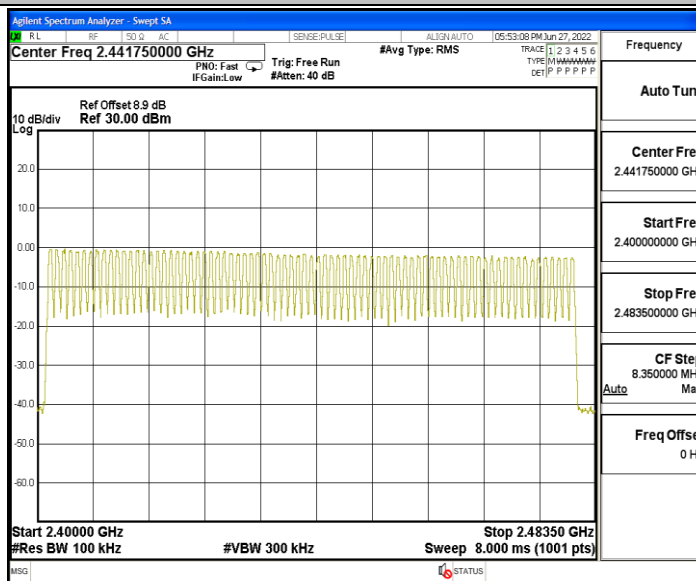
Appendix F: Number of hopping channels

Test Result

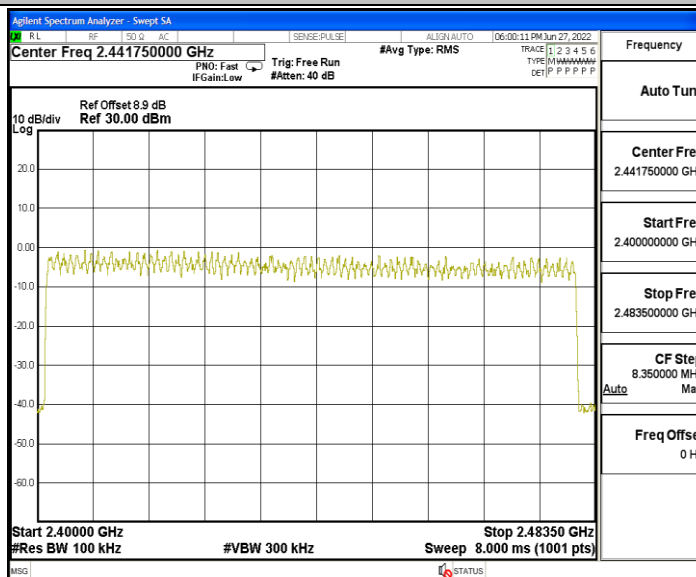
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

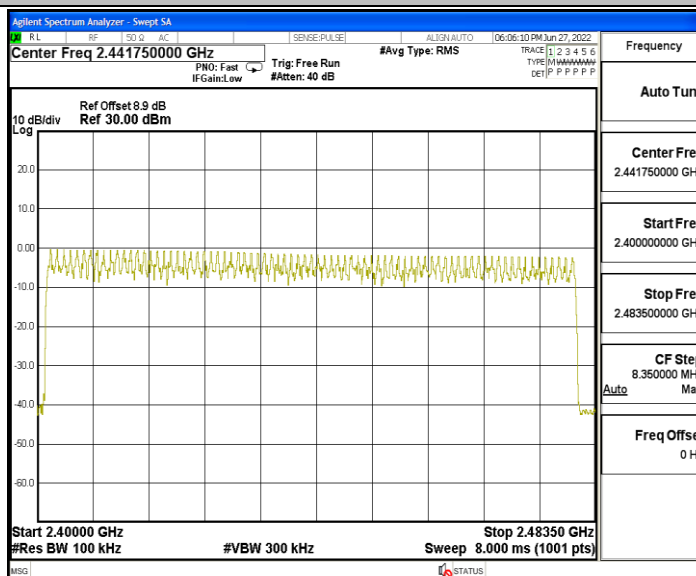
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



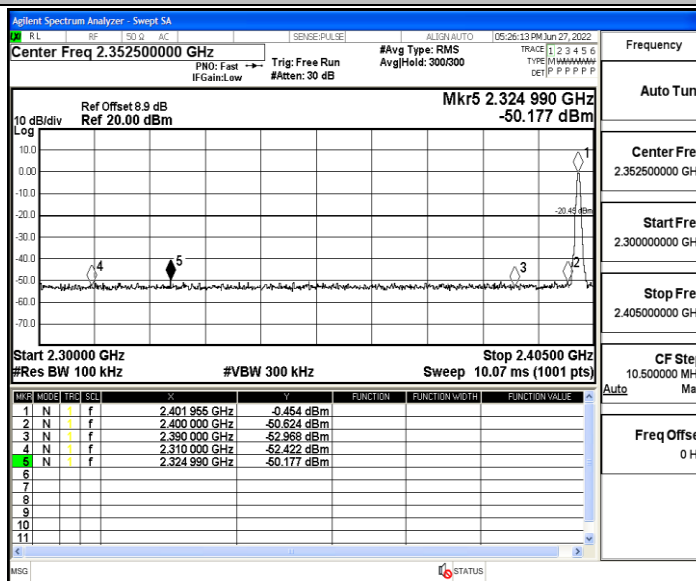
Appendix G: Band edge measurements

Test Result

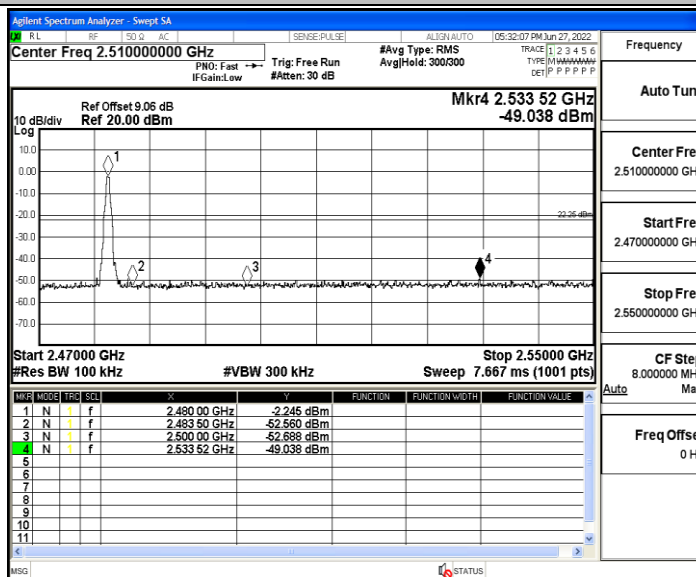
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.45	-50.18	≤ -20.45	PASS
		High	2480	-2.25	-49.04	≤ -22.25	PASS
		Low	Hop_2402	-0.52	-50.28	≤ -20.52	PASS
		High	Hop_2480	-2.21	-48.91	≤ -22.21	PASS
2DH5	Ant1	Low	2402	-0.62	-49.87	≤ -20.62	PASS
		High	2480	-2.38	-49.76	≤ -22.38	PASS
		Low	Hop_2402	-3.08	-50.22	≤ -23.08	PASS
		High	Hop_2480	-4.34	-49.51	≤ -24.34	PASS
3DH5	Ant1	Low	2402	-0.33	-49.4	≤ -20.33	PASS
		High	2480	-2.24	-49.37	≤ -22.24	PASS
		Low	Hop_2402	-0.63	-50.63	≤ -20.63	PASS
		High	Hop_2480	-2.03	-49.48	≤ -22.03	PASS

Test Graphs

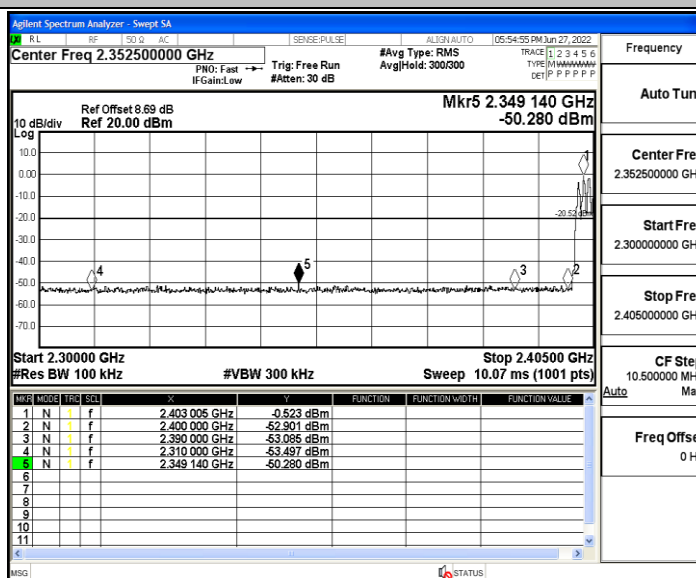
DH5_Ant1_Low_2402



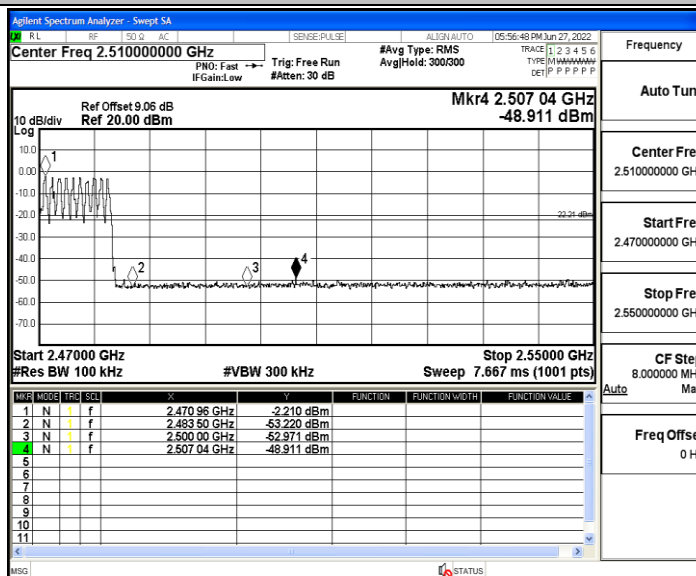
DH5_Ant1_High_2480



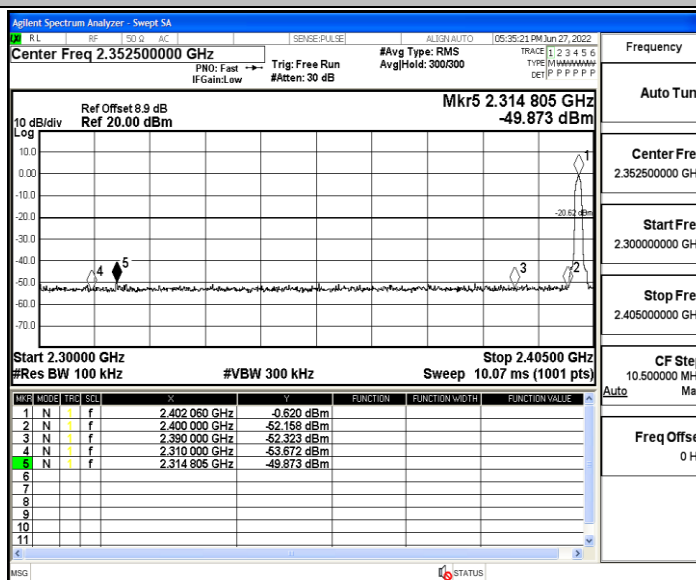
DH5_Ant1_Low_Hop_2402



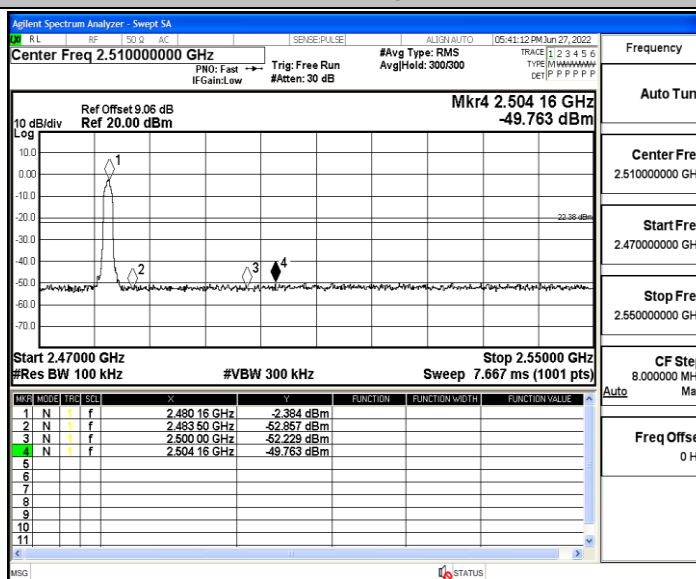
DH5_Ant1_High_Hop_2480



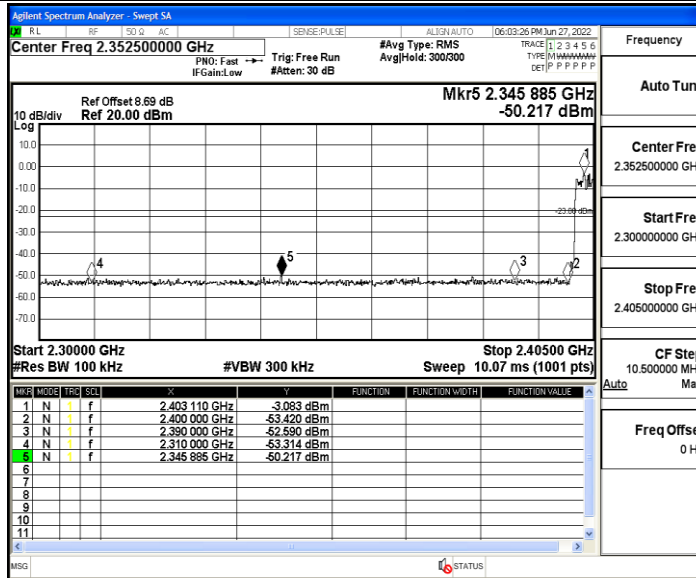
2DH5_Ant1_Low_2402



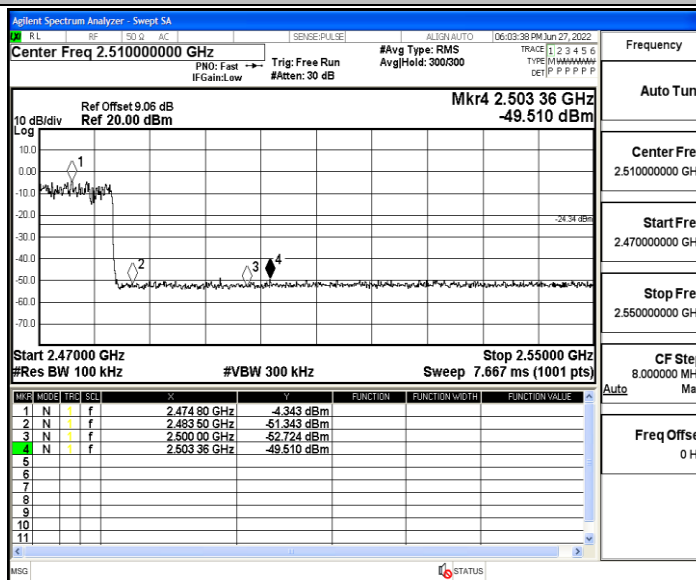
2DH5_Ant1_High_2480



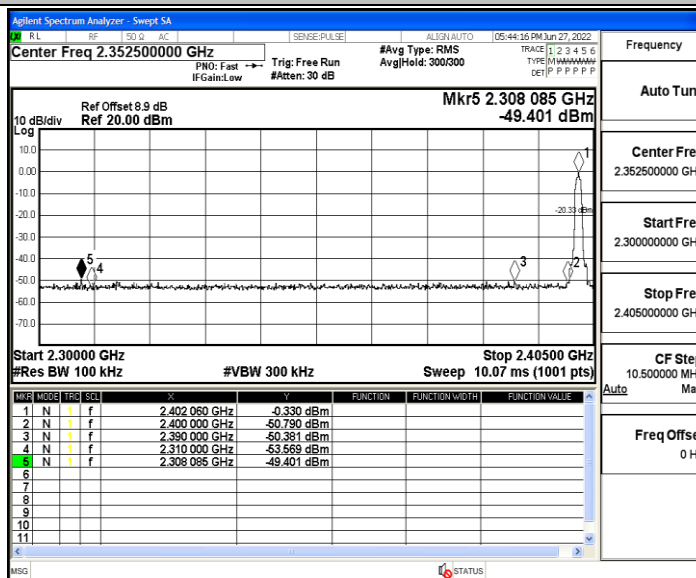
2DH5_Ant1_Low_Hop_2402



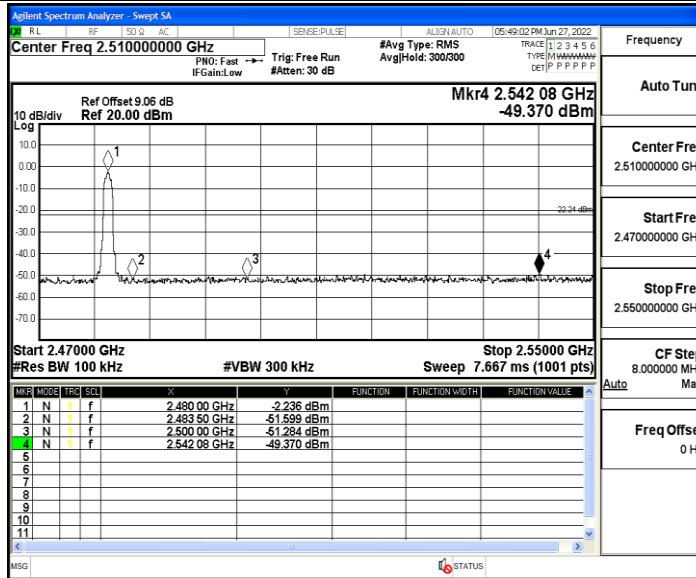
2DH5_Ant1_High_Hop_2480



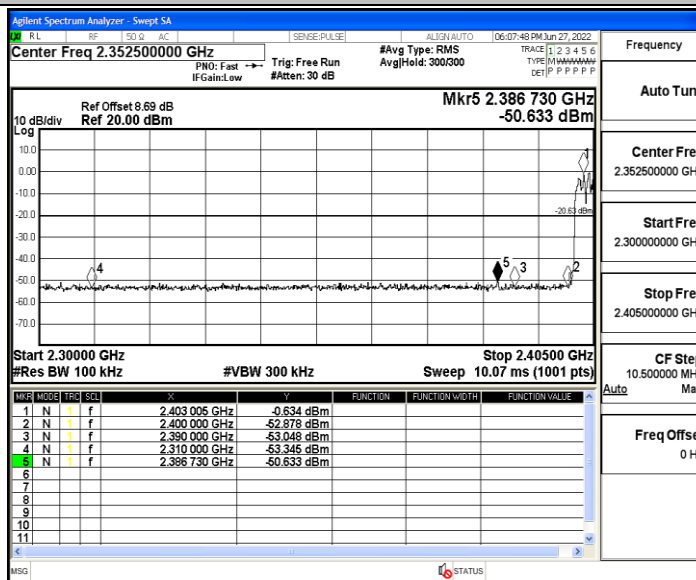
3DH5_Ant1_Low_2402



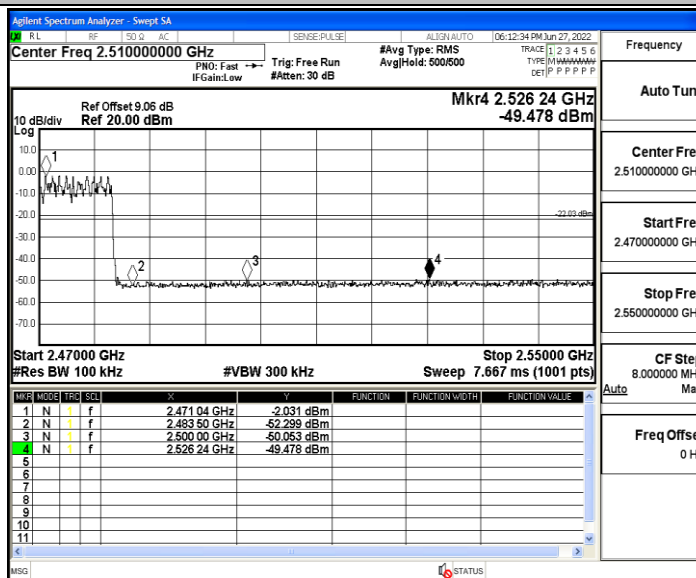
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



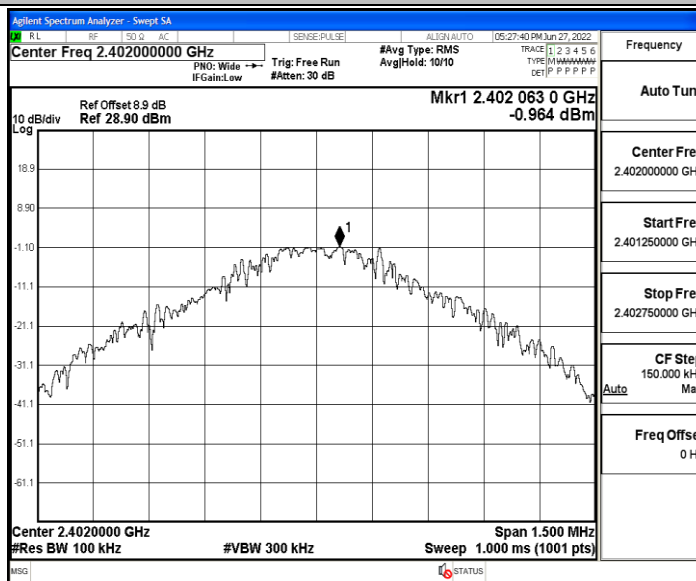
Appendix H: Conducted Spurious Emission

Test Result

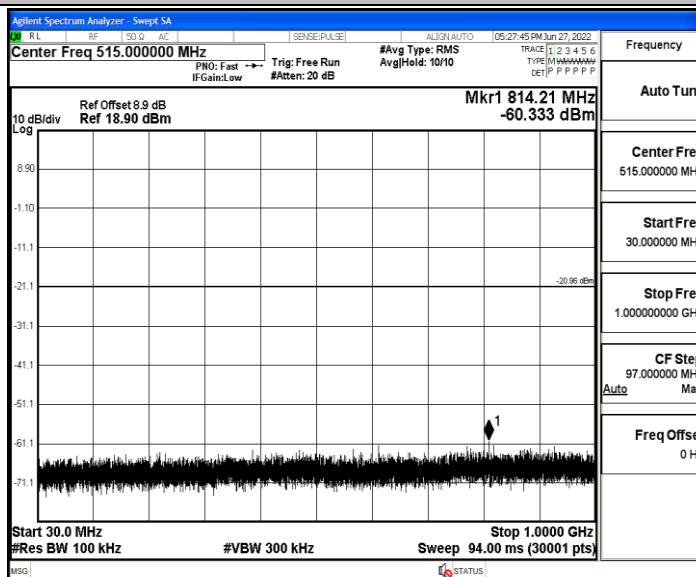
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-60.33	≤-20.96	PASS
			1000~26500	-0.96	-44.09	≤-20.96	PASS
		2441	Reference	-2.35	-2.35	---	PASS
			30~1000	-2.35	-61.54	≤-22.35	PASS
			1000~26500	-2.35	-49.25	≤-22.35	PASS
		2480	Reference	-2.89	-2.89	---	PASS
			30~1000	-2.89	-61.57	≤-22.89	PASS
			1000~26500	-2.89	-51.05	≤-22.89	PASS
2DH5	Ant1	2402	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-60.96	≤-22.54	PASS
			1000~26500	-2.54	-49.13	≤-22.54	PASS
		2441	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-61.63	≤-22.03	PASS
			1000~26500	-2.03	-51.74	≤-22.03	PASS
		2480	Reference	-3.48	-3.48	---	PASS
			30~1000	-3.48	-61.34	≤-23.48	PASS
			1000~26500	-3.48	-50.72	≤-23.48	PASS
3DH5	Ant1	2402	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-61.42	≤-20.36	PASS
			1000~26500	-0.36	-44.84	≤-20.36	PASS
		2441	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-61.61	≤-21.55	PASS
			1000~26500	-1.55	-50.38	≤-21.55	PASS
		2480	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-61.69	≤-22.3	PASS
			1000~26500	-2.30	-50.83	≤-22.3	PASS

Test Graphs

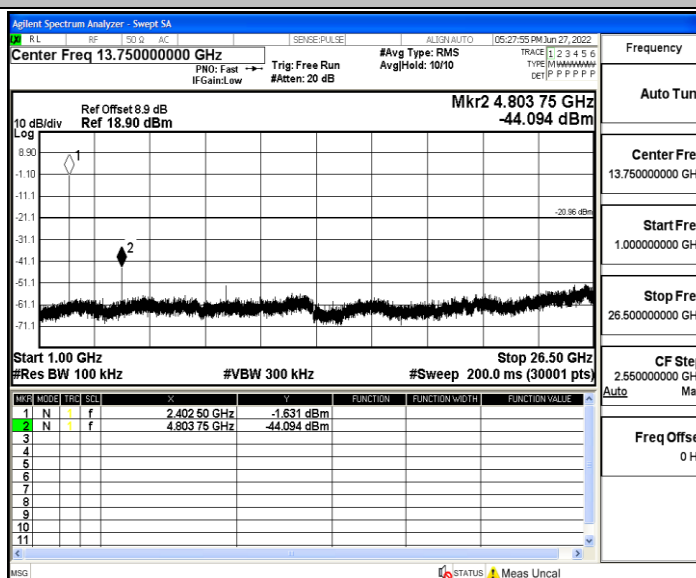
DH5_Ant1_2402_0~Reference



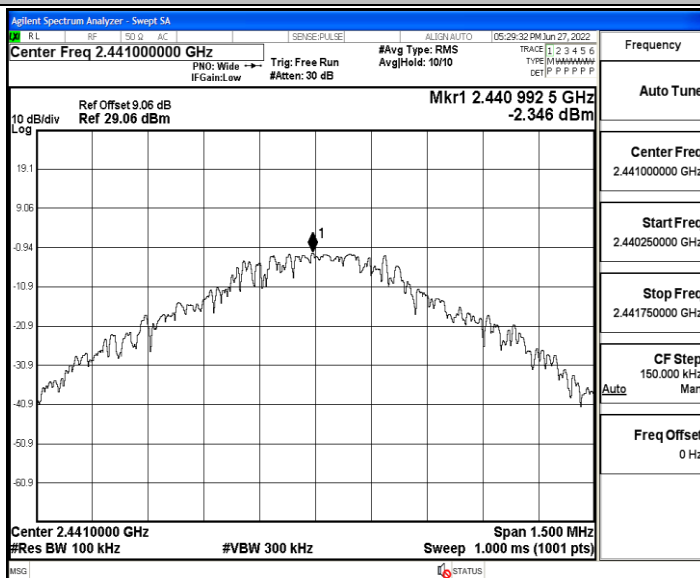
DH5_Ant1_2402_30~1000



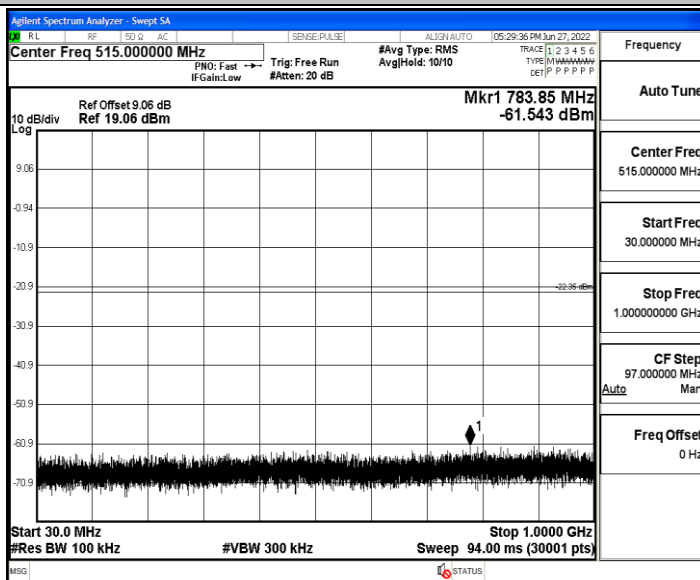
DH5_Ant1_2402_1000~26500



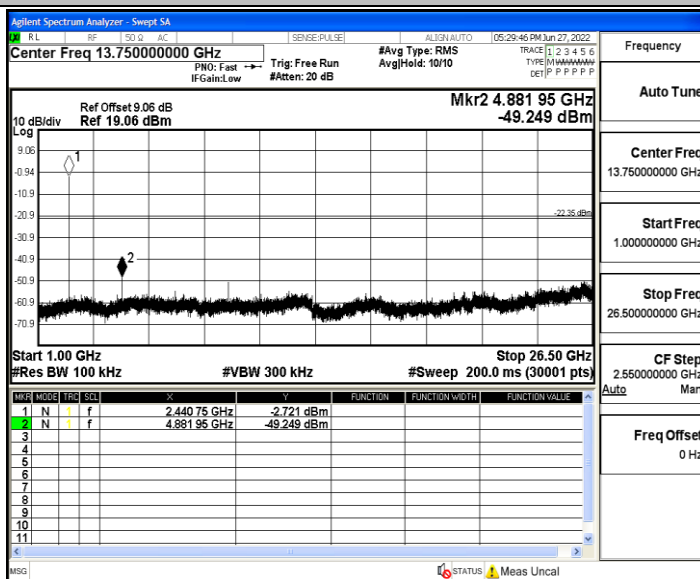
DH5_Ant1_2441_0~Reference



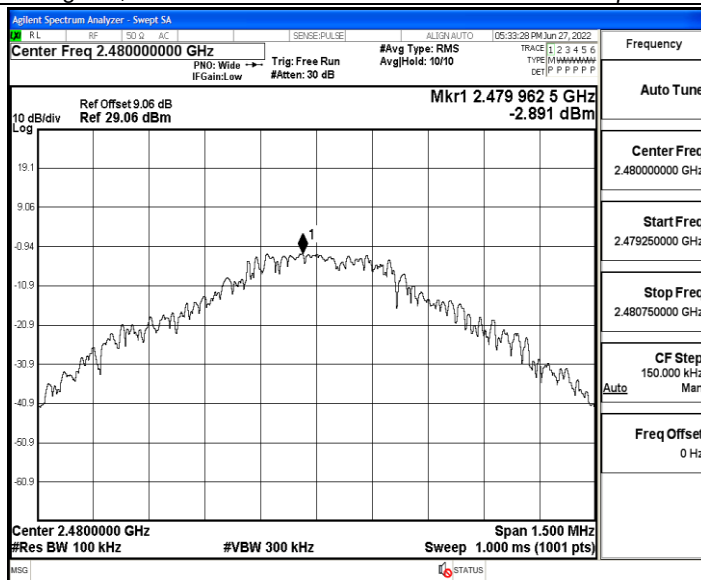
DH5_Ant1_2441_30~1000



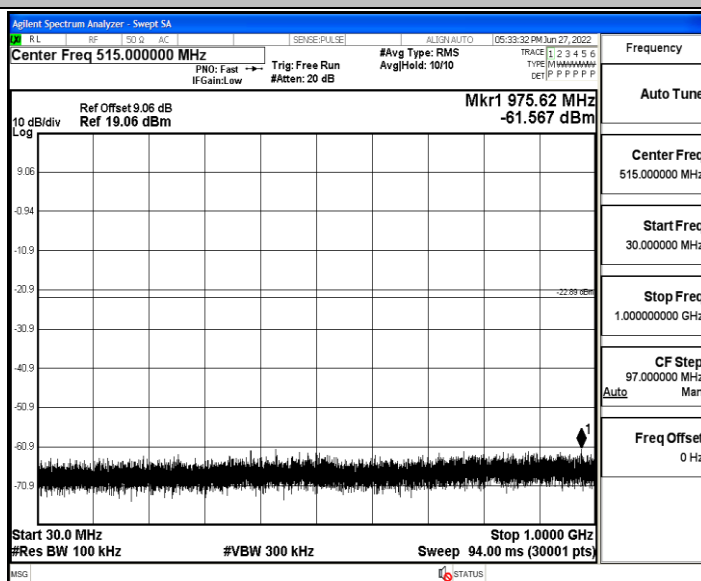
DH5_Ant1_2441_1000~26500



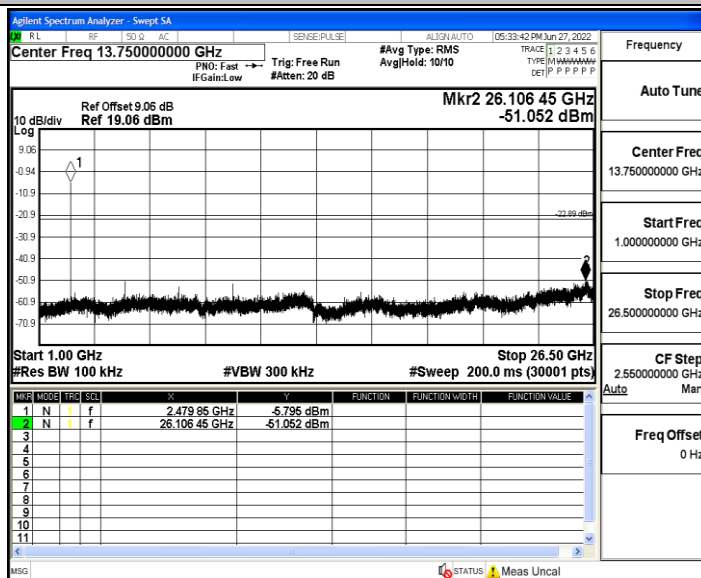
DH5_Ant1_2480_0~Reference



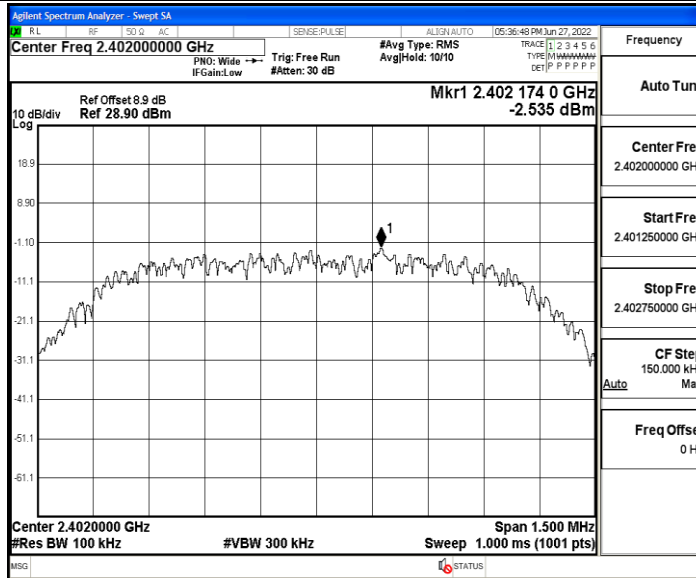
DH5_Ant1_2480_30~1000



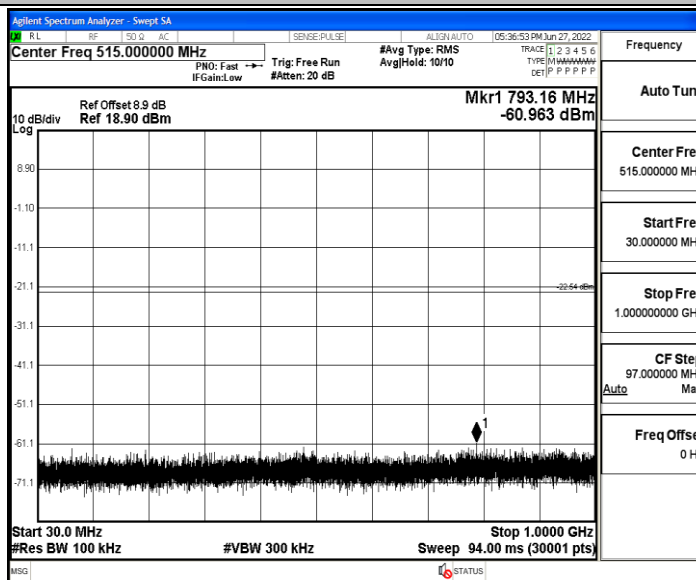
DH5_Ant1_2480_1000~26500



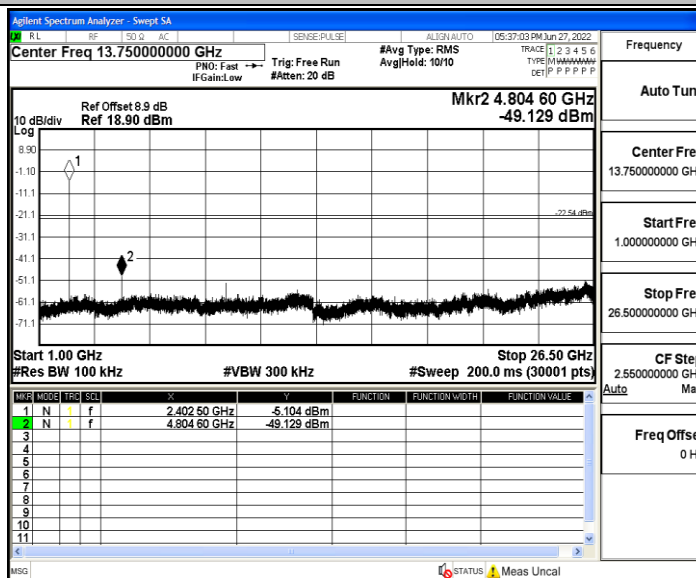
2DH5_Ant1_2402_0~Reference



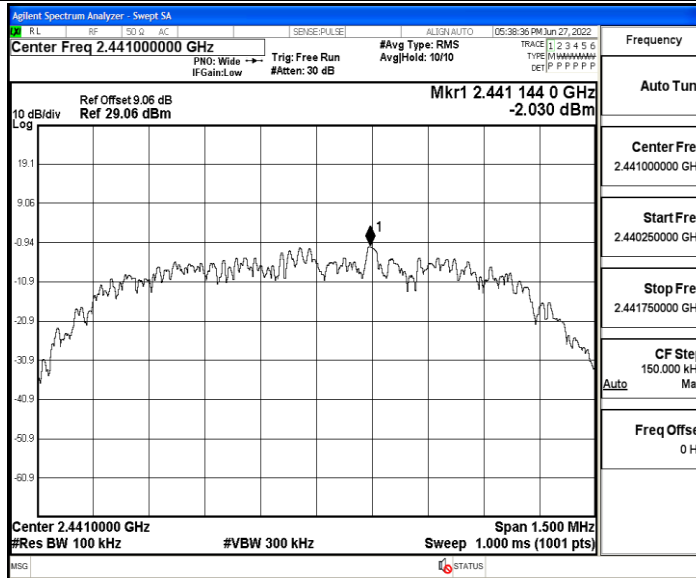
2DH5_Ant1_2402_30~1000



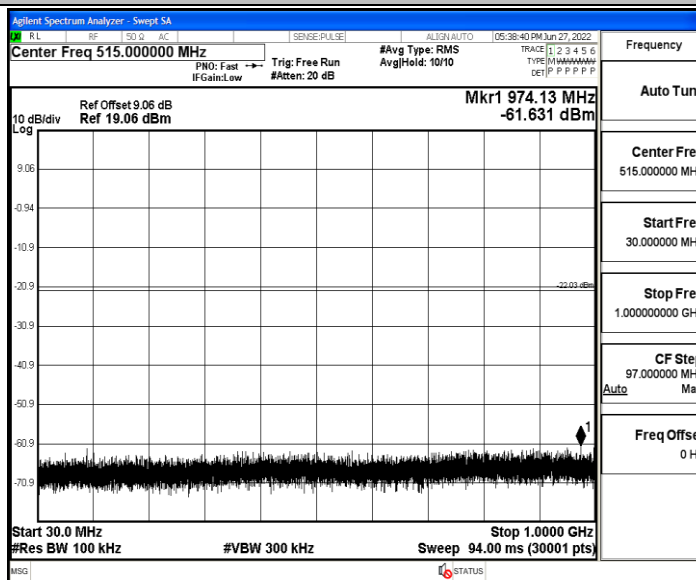
2DH5_Ant1_2402_1000~26500



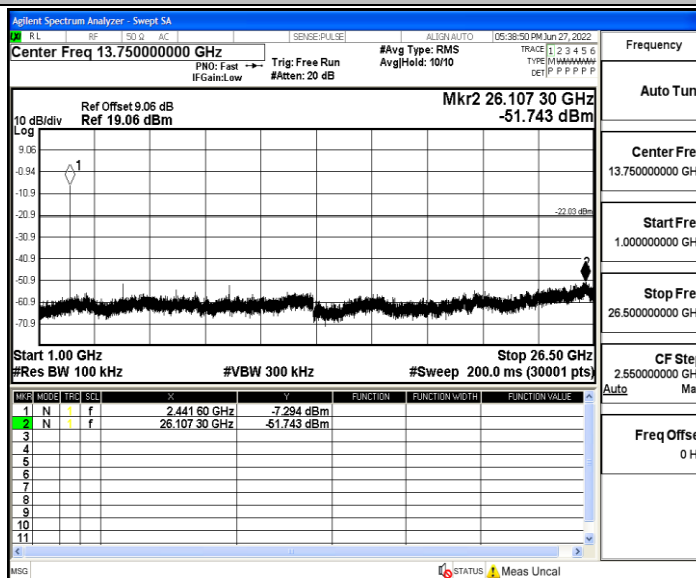
2DH5_Ant1_2441_0~Reference



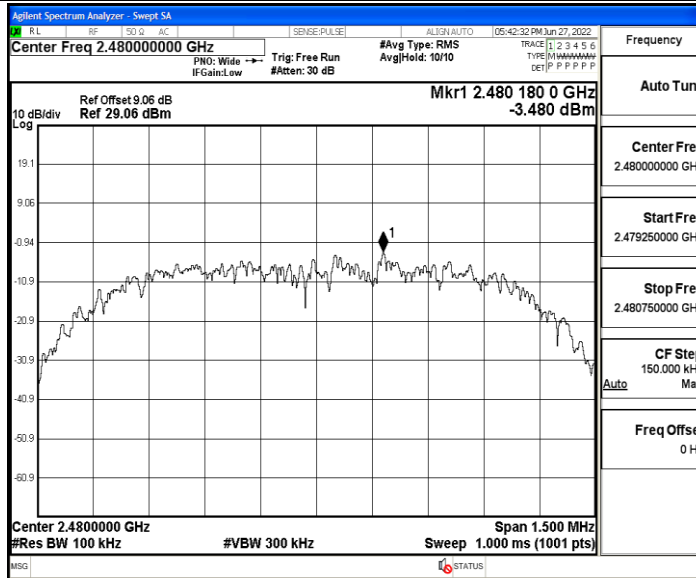
2DH5_Ant1_2441_30~1000



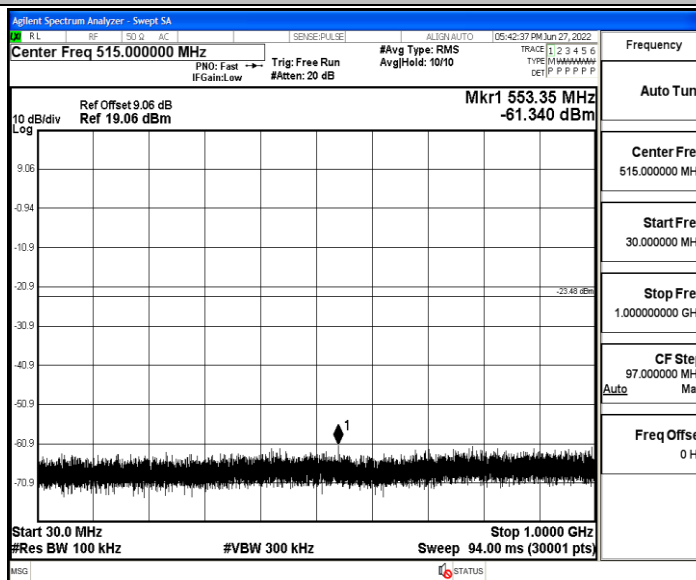
2DH5_Ant1_2441_1000~26500



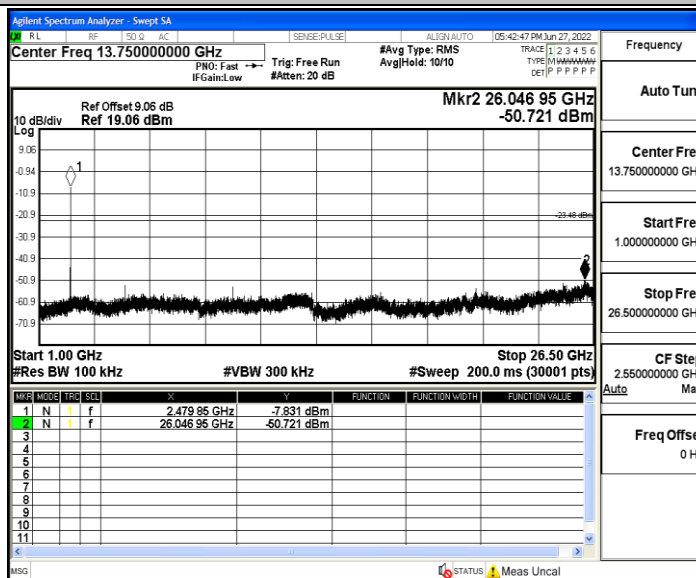
2DH5_Ant1_2480_0~Reference



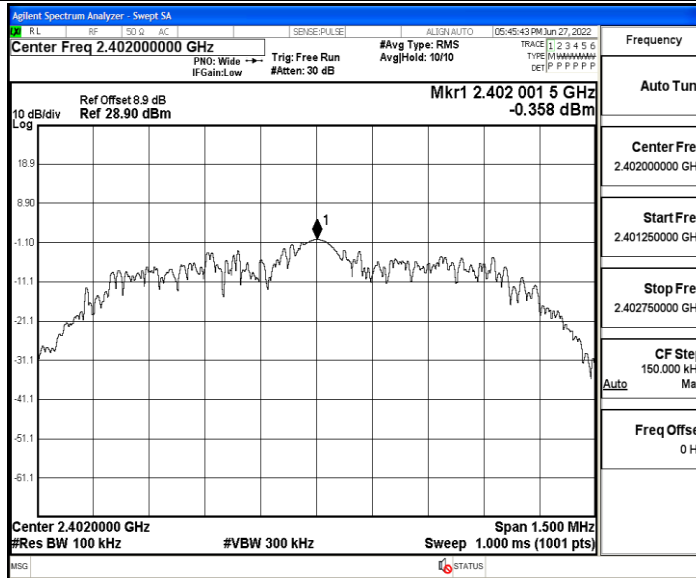
2DH5_Ant1_2480_30~1000



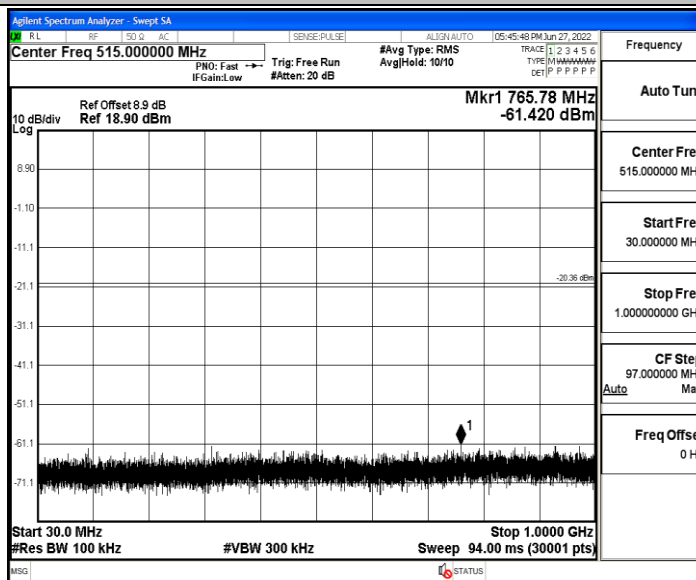
2DH5_Ant1_2480_1000~26500



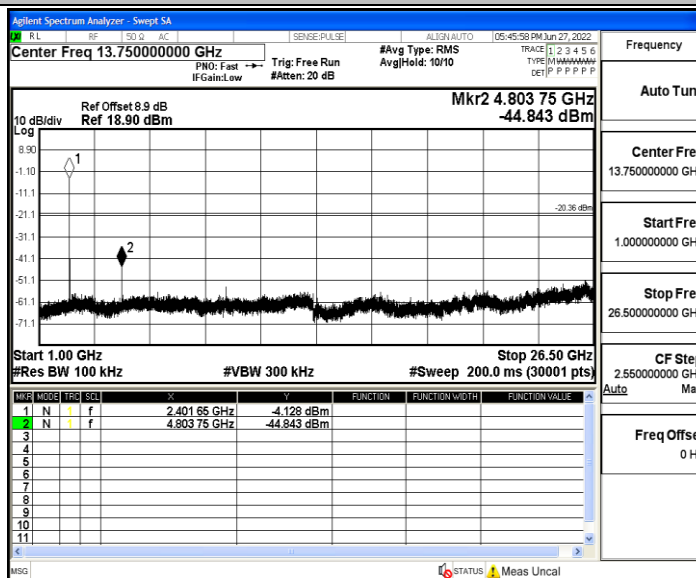
3DH5_Ant1_2402_0~Reference



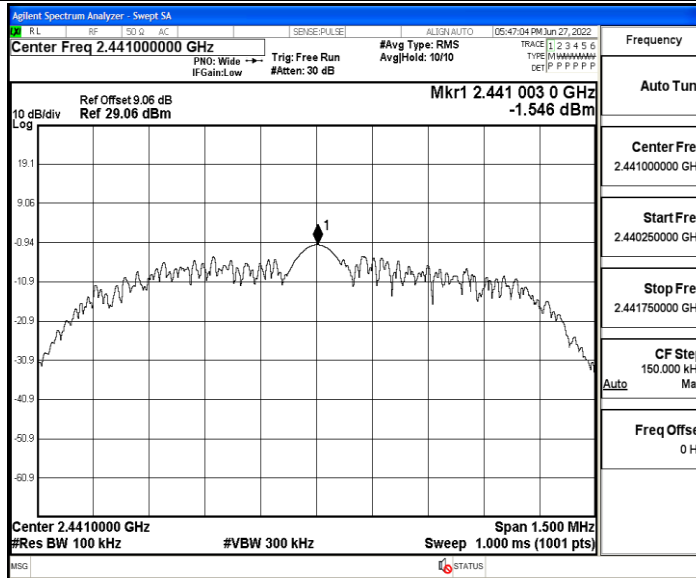
3DH5_Ant1_2402_30~1000



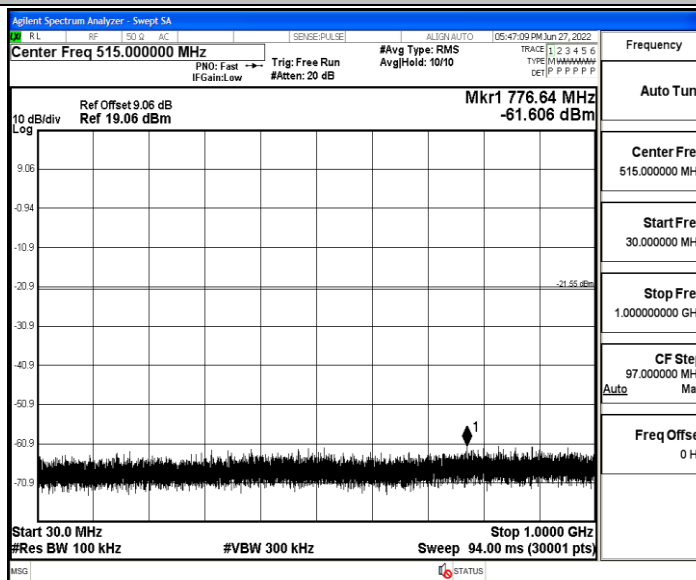
3DH5_Ant1_2402_1000~26500



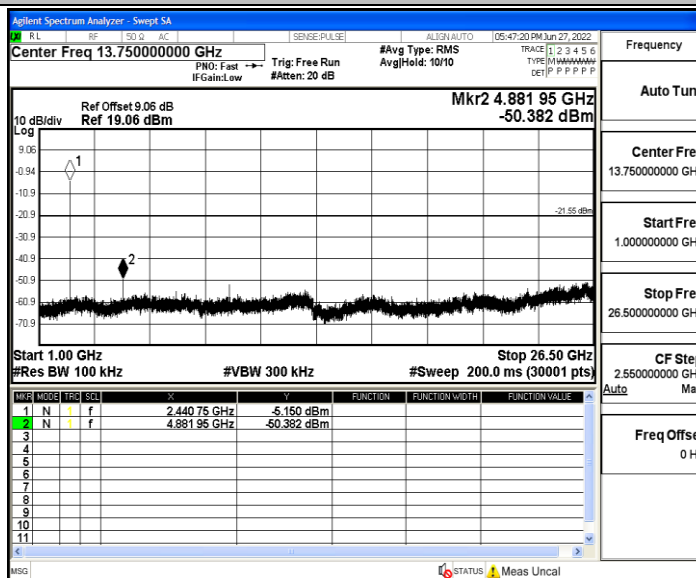
3DH5_Ant1_2441_0~Reference



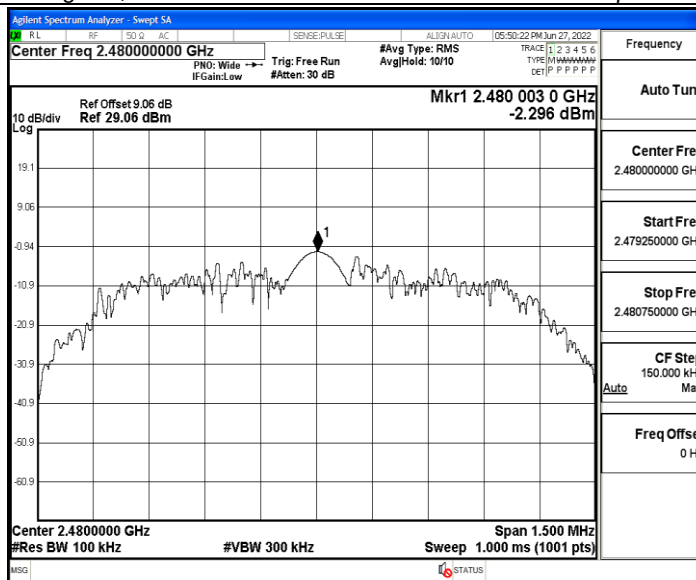
3DH5_Ant1_2441_30~1000



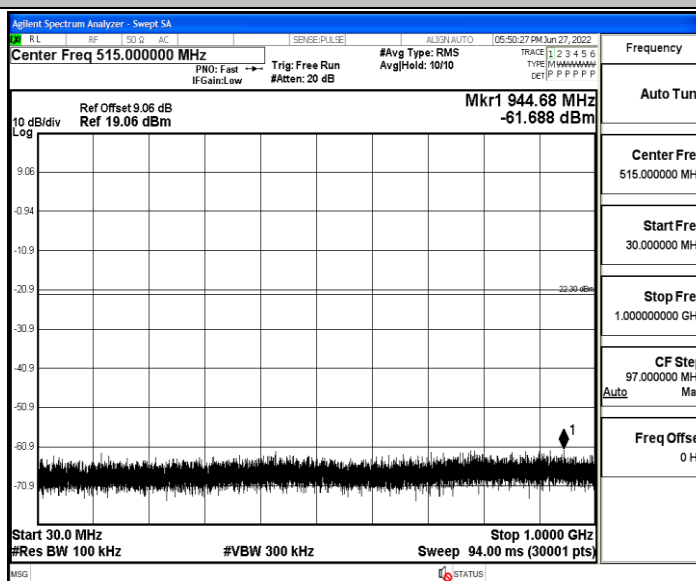
3DH5_Ant1_2441_1000~26500



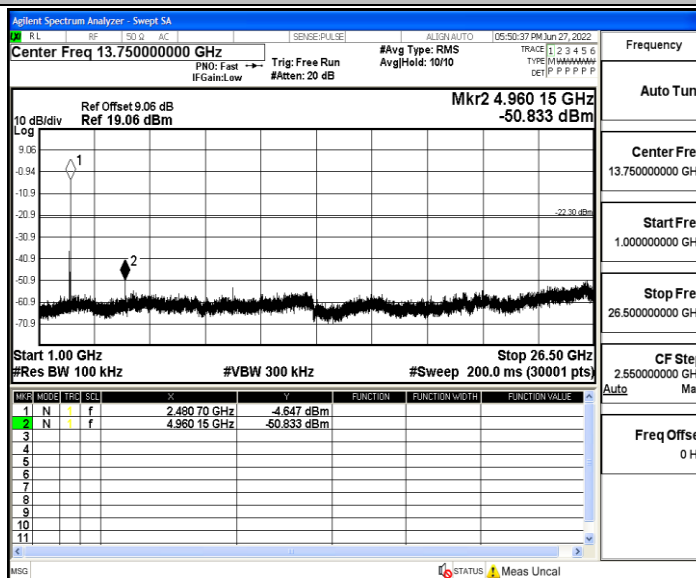
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



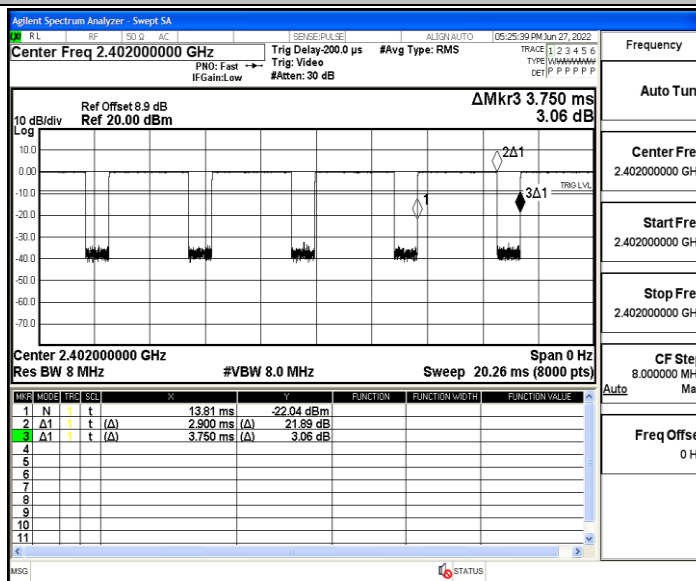
Appendix I: Duty Cycle

Test Result

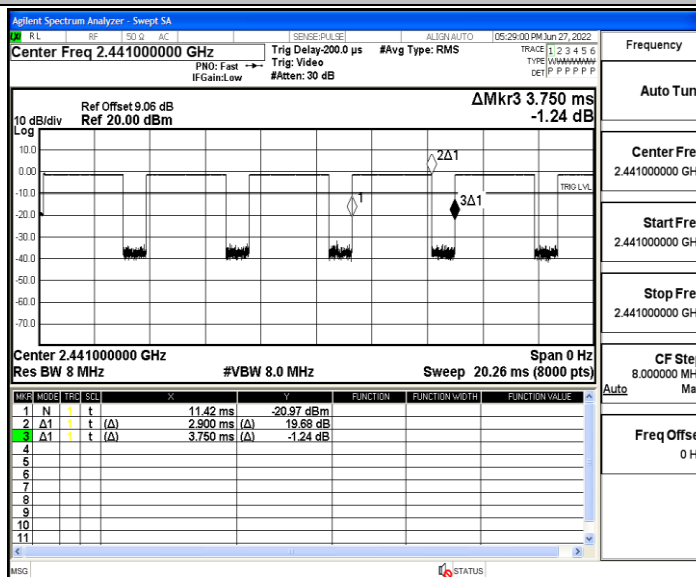
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.90	3.75	77.33	0.34
		2441	2.90	3.75	77.33	0.34
		2480	2.90	3.75	77.33	0.34
2DH5	Ant1	2402	2.90	3.75	77.33	0.34
		2441	2.90	3.75	77.33	0.34
		2480	2.91	3.75	77.60	0.34
3DH5	Ant1	2402	2.91	3.75	77.60	0.34
		2441	2.90	3.75	77.33	0.34
		2480	2.91	3.75	77.60	0.34

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

