

Appendix A

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

Product Name: WIRELESS ADAPTER

Trade Mark: N/A

Test Model: AD-BA010

FCC ID: 2A2QG-ADBA010

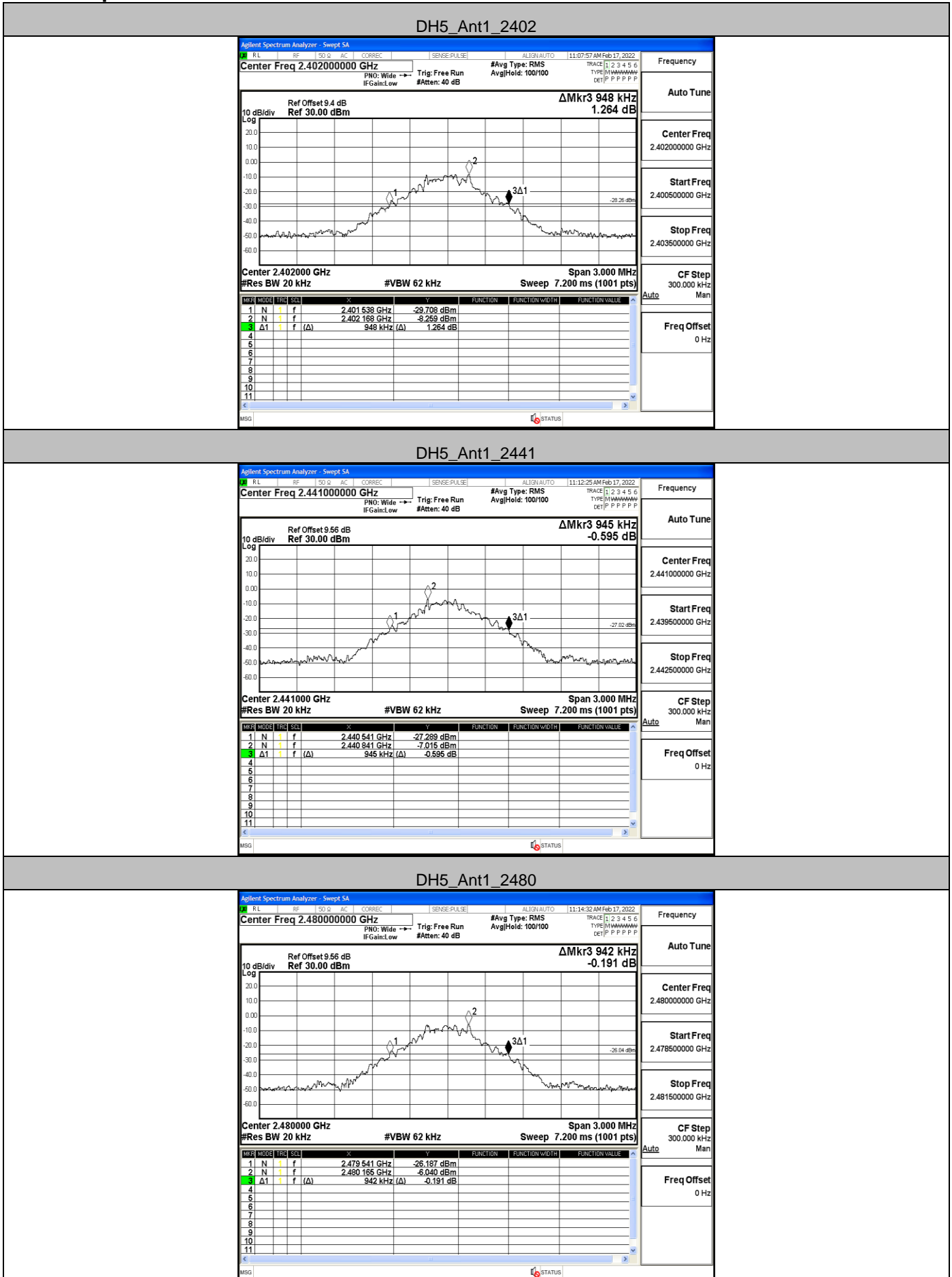
Environmental Conditions

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

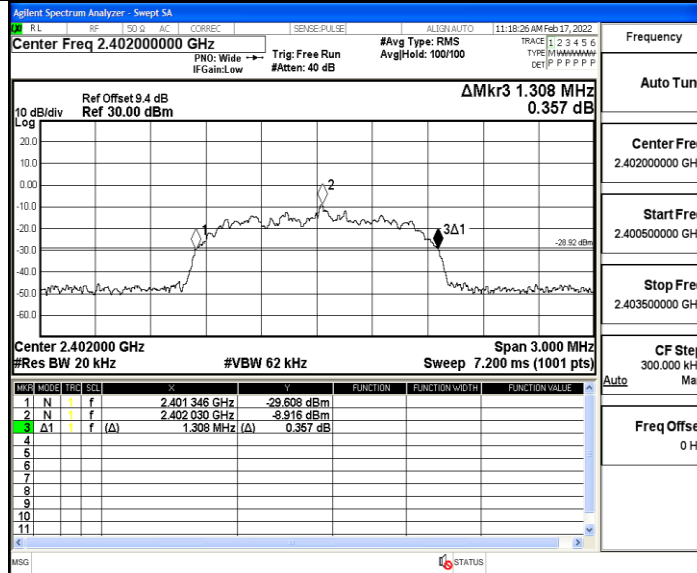
A.1 20 dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---	---
		2441	0.945	2440.541	2441.486	---	---
		2480	0.942	2479.541	2480.483	---	---
2DH5	Ant1	2402	1.308	2401.346	2402.654	---	---
		2441	1.314	2440.343	2441.657	---	---
		2480	1.311	2479.346	2480.657	---	---
3DH5	Ant1	2402	1.323	2401.343	2402.666	---	---
		2441	1.290	2440.352	2441.642	---	---
		2480	1.284	2479.352	2480.636	---	---

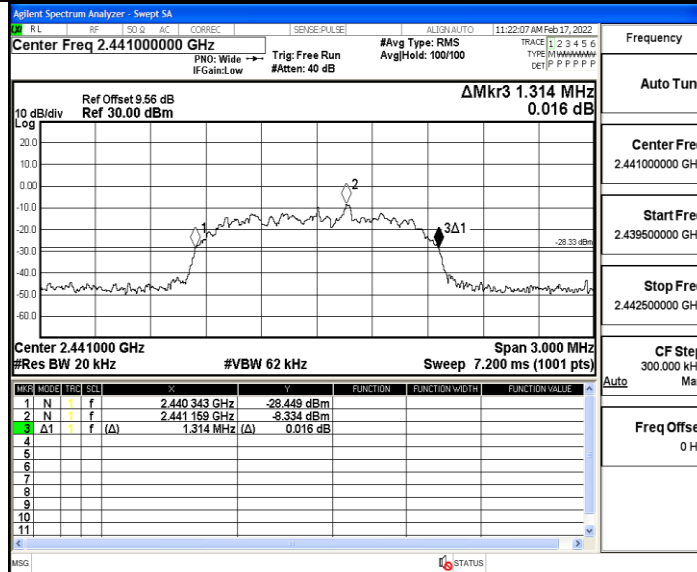
Test Graph



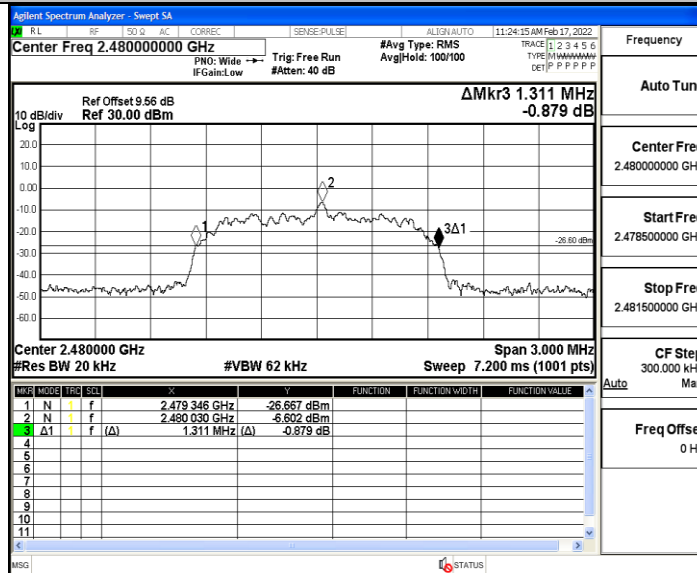
2DH5_Ant1_2402



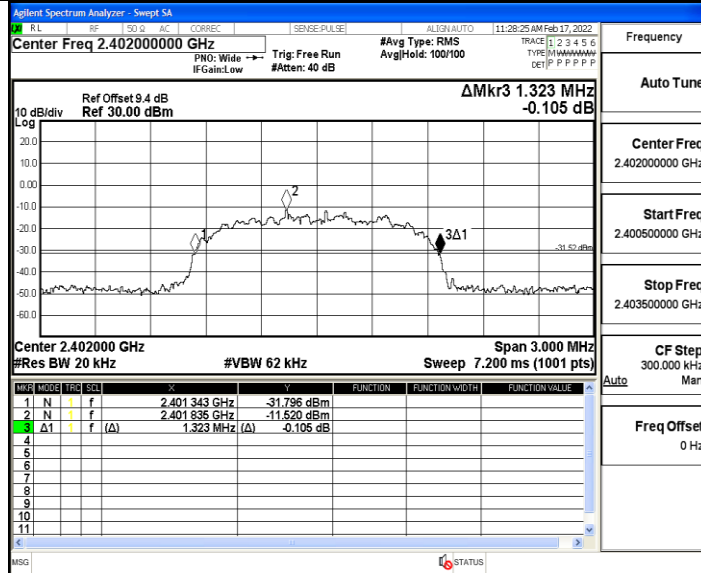
2DH5_Ant1_2441



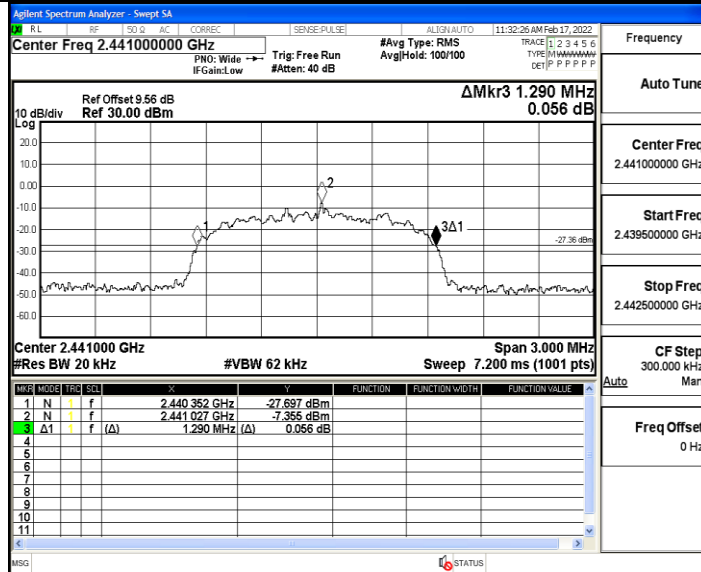
2DH5_Ant1_2480



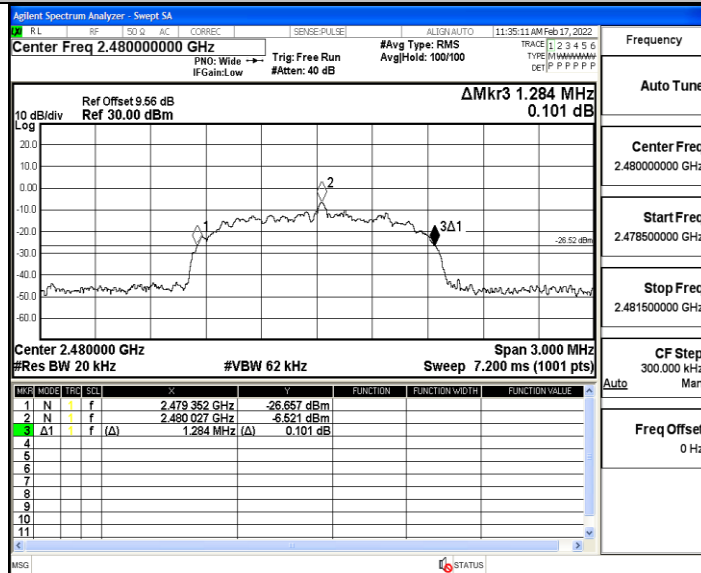
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

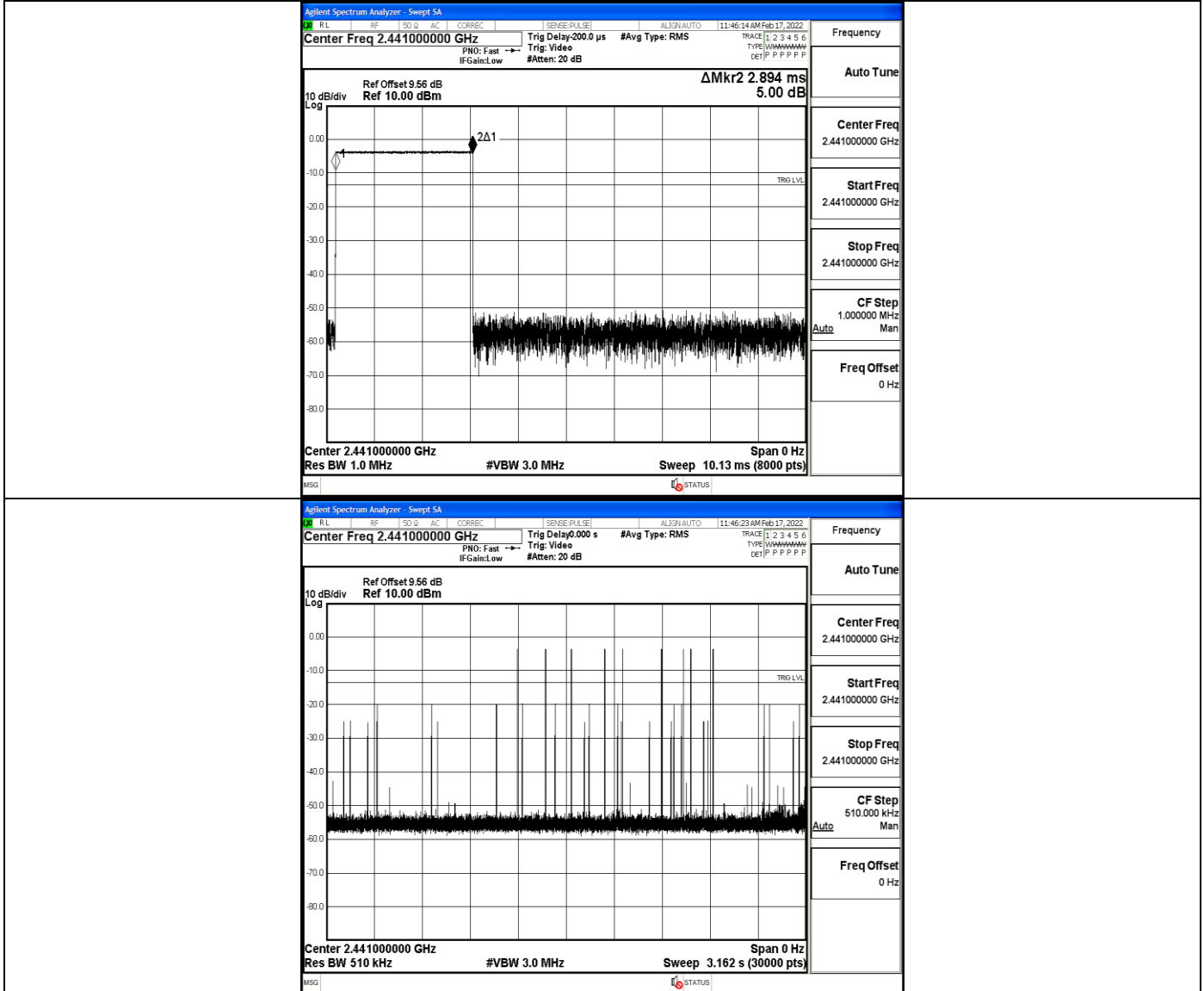


A.2 Dwell Time

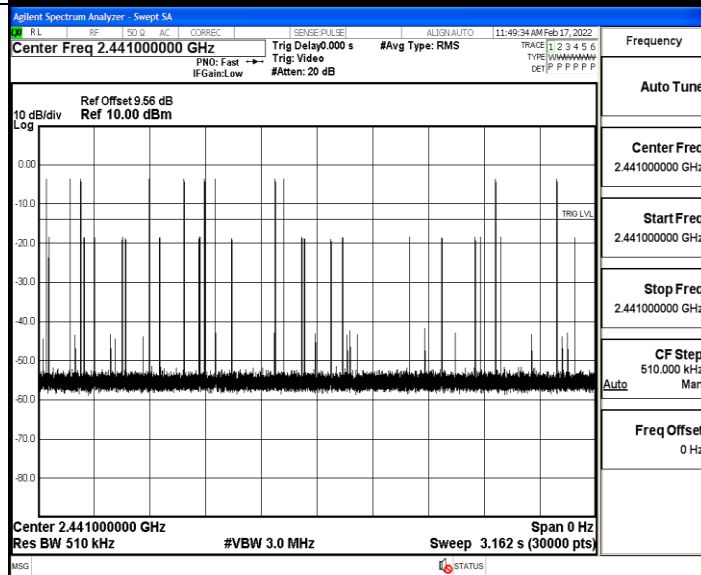
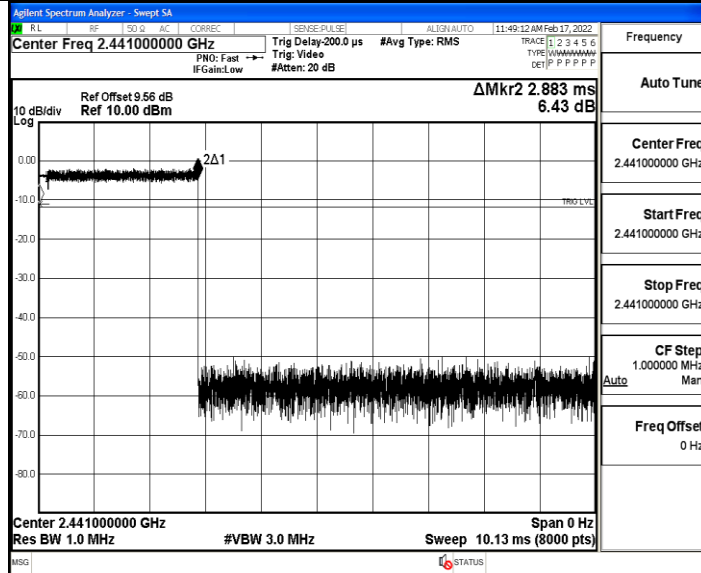
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
3DH5	Ant1	Hop	2.88	40	0.115	≤0.4	PASS

Test Graph

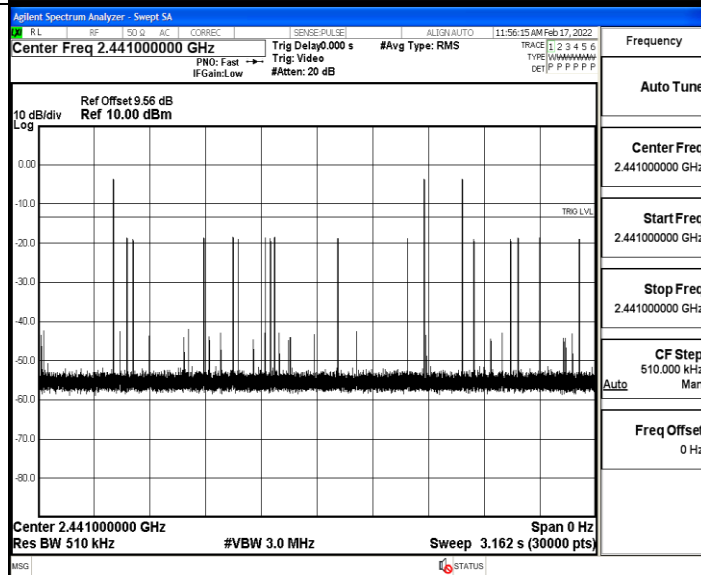
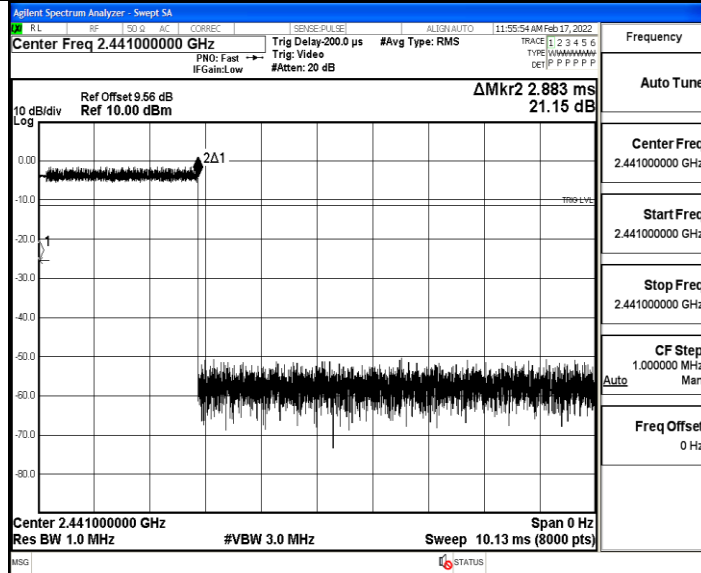
DH5_Ant1_Hop



2DH5_Ant1_Hop



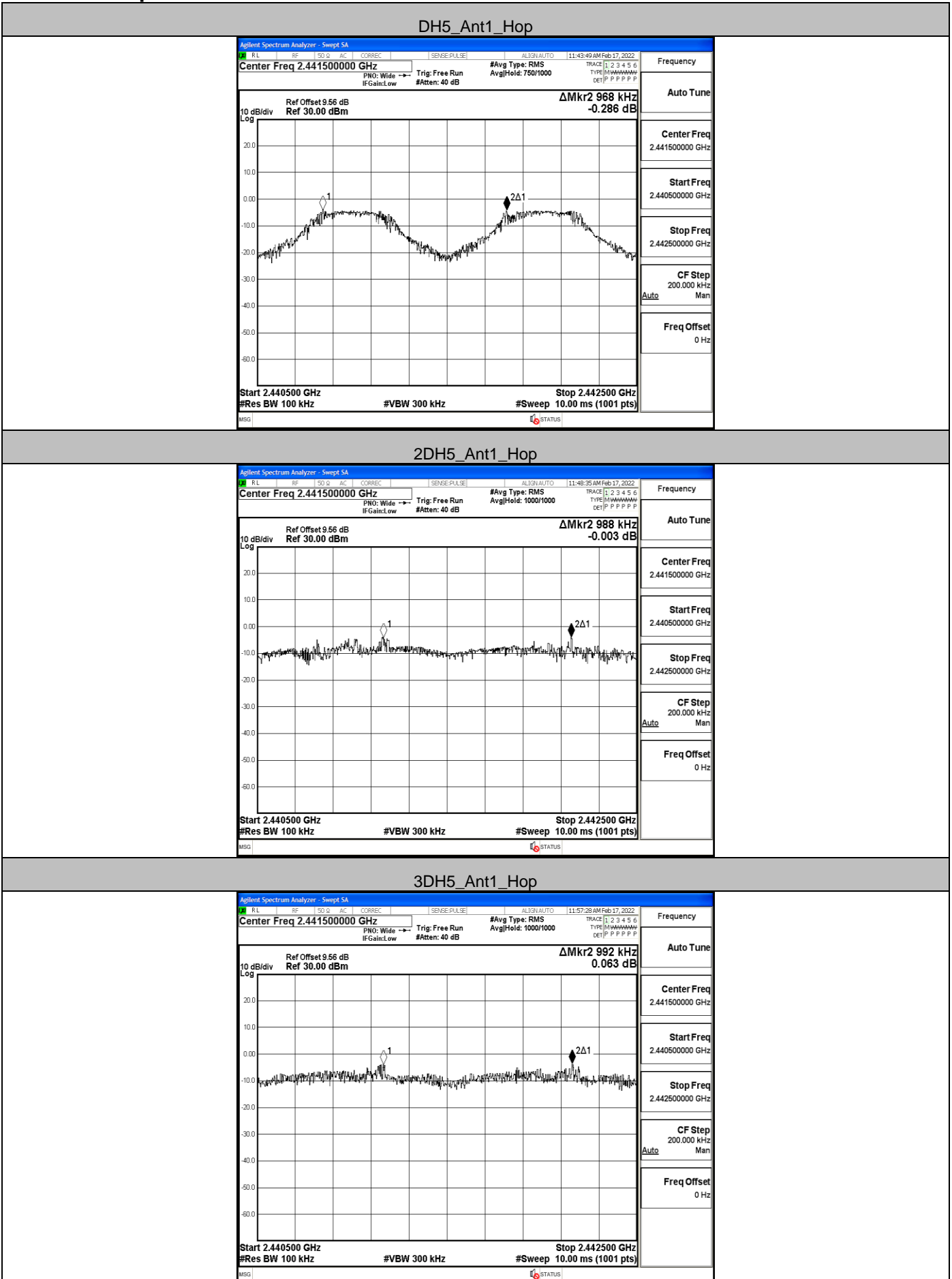
3DH5_Ant1_Hop



A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.968	≥ 0.948	PASS
2DH5	Ant1	Hop	0.988	≥ 0.876	PASS
3DH5	Ant1	Hop	0.992	≥ 0.882	PASS

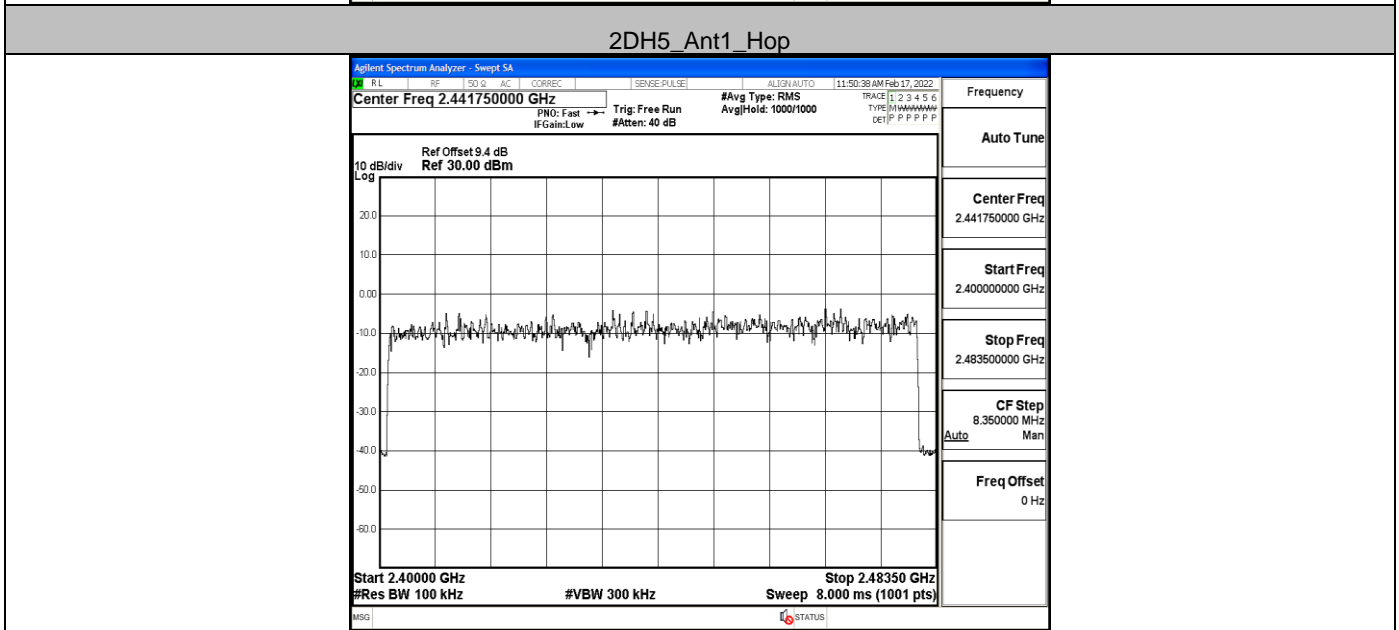
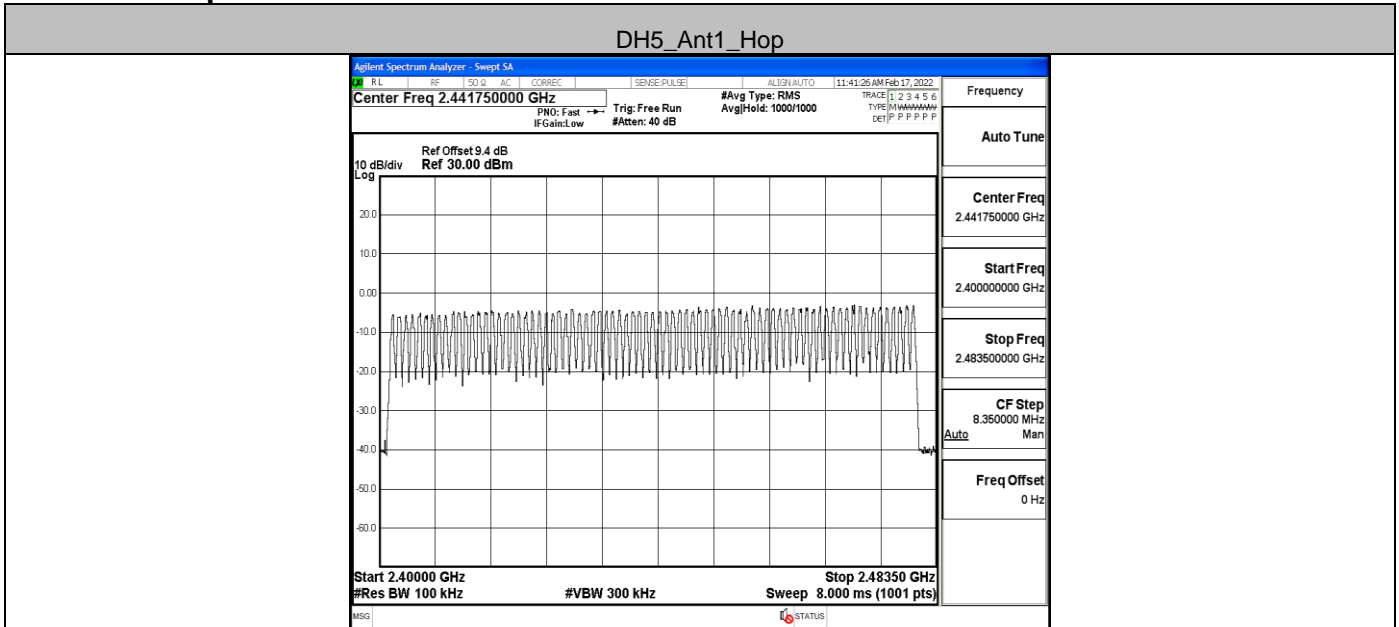
Test Graph



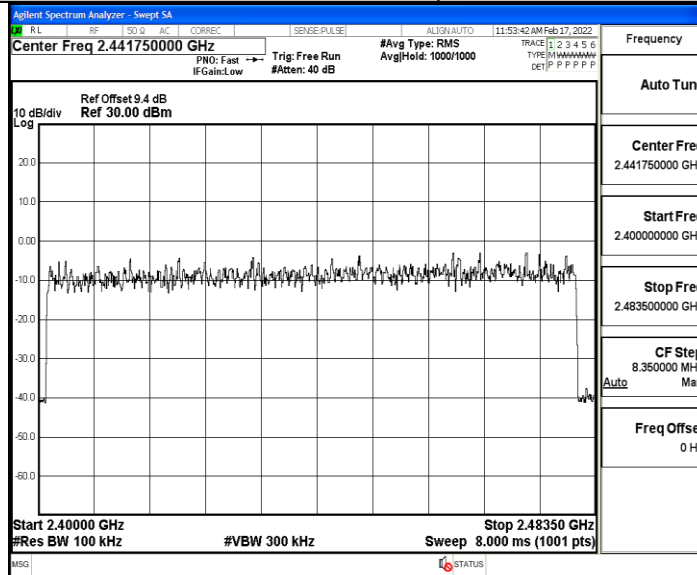
A.4 Hopping Channel Number

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 Graph



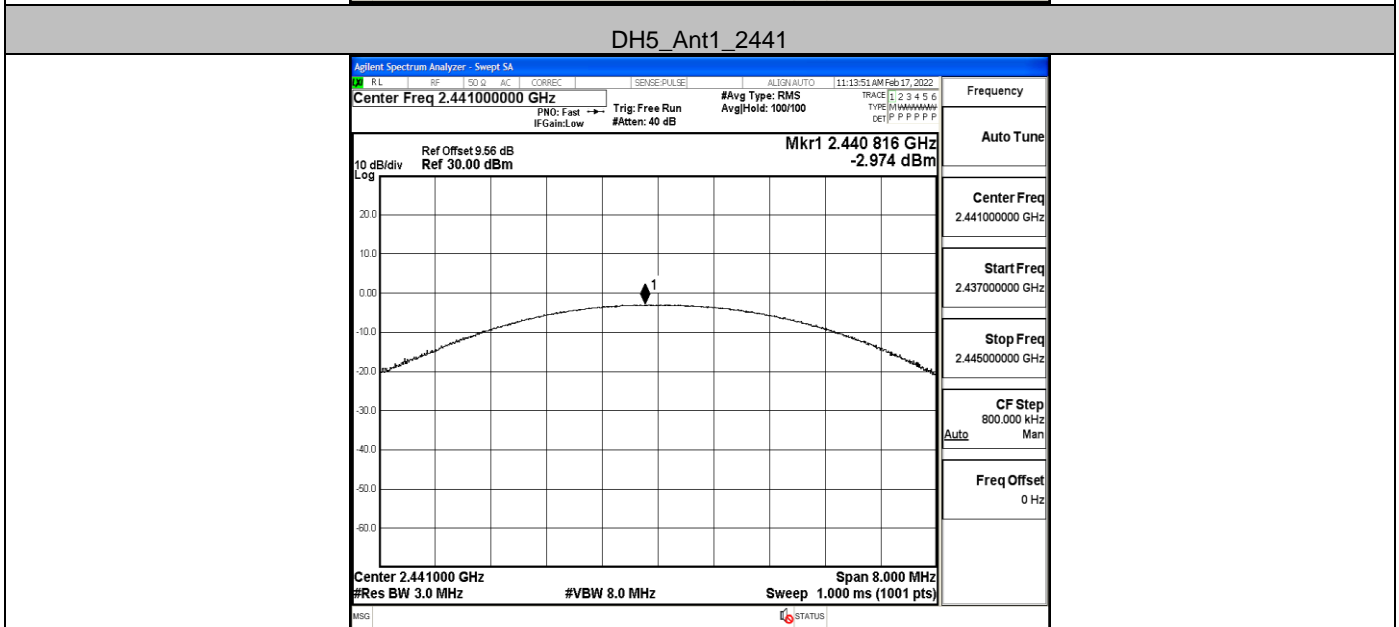
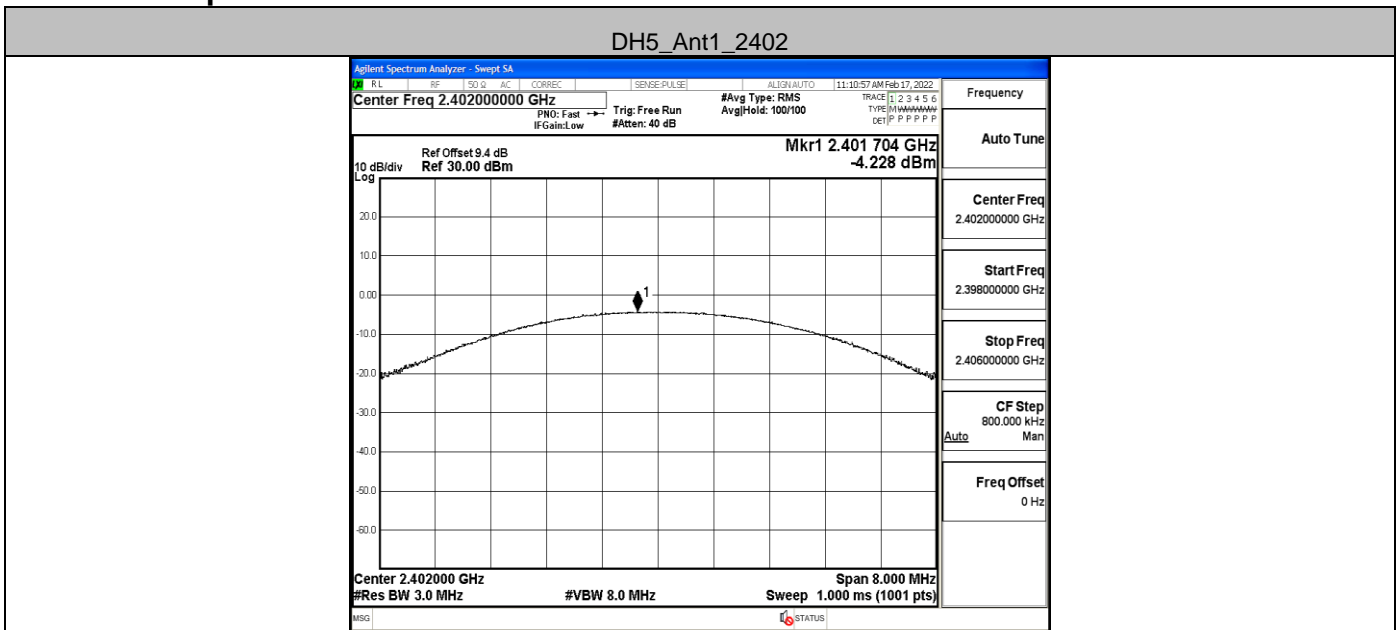
3DH5_Ant1_Hop



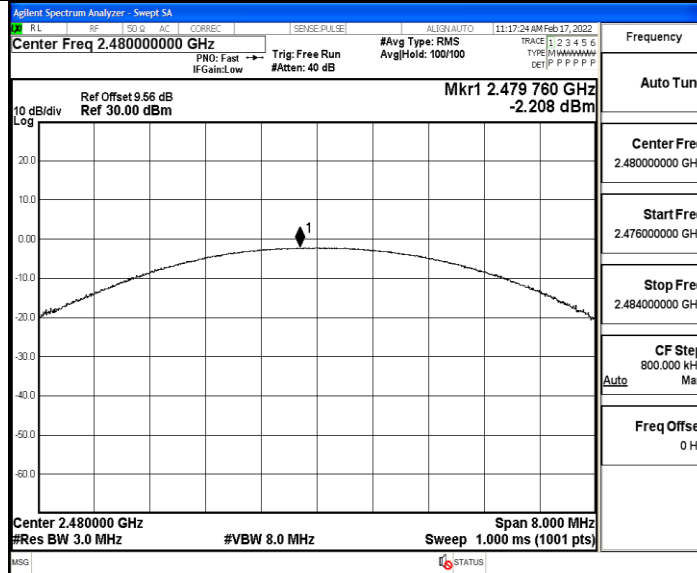
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-4.23	≤20.97	PASS
		2441	-2.97	≤20.97	PASS
		2480	-2.21	≤20.97	PASS
2DH5	Ant1	2402	-2.63	≤20.97	PASS
		2441	-1.23	≤20.97	PASS
		2480	-0.32	≤20.97	PASS
3DH5	Ant1	2402	-2.27	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	0.07	≤20.97	PASS

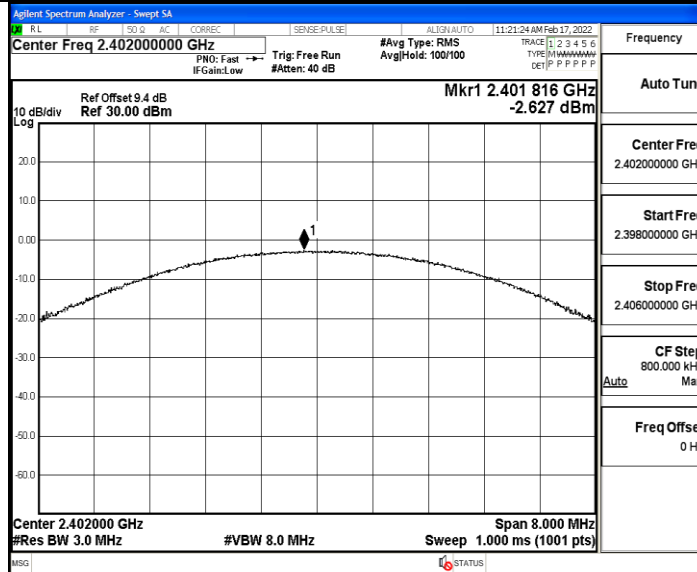
Test Graph



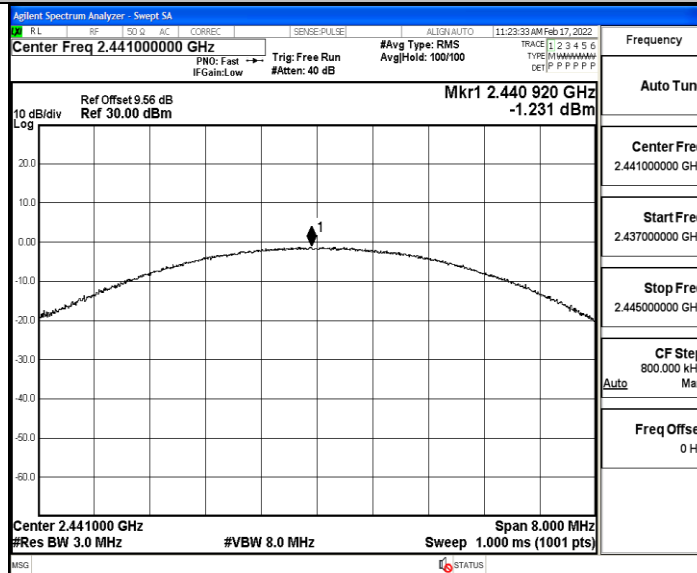
DH5_Ant1_2480



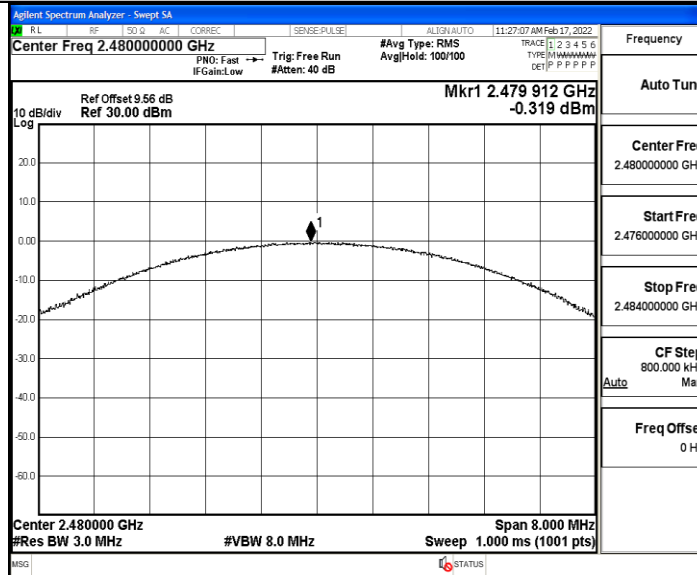
2DH5_Ant1_2402



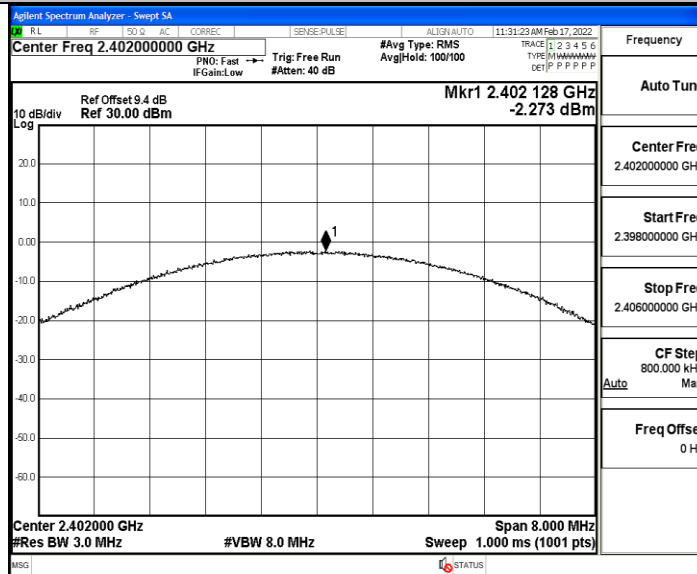
2DH5_Ant1_2441



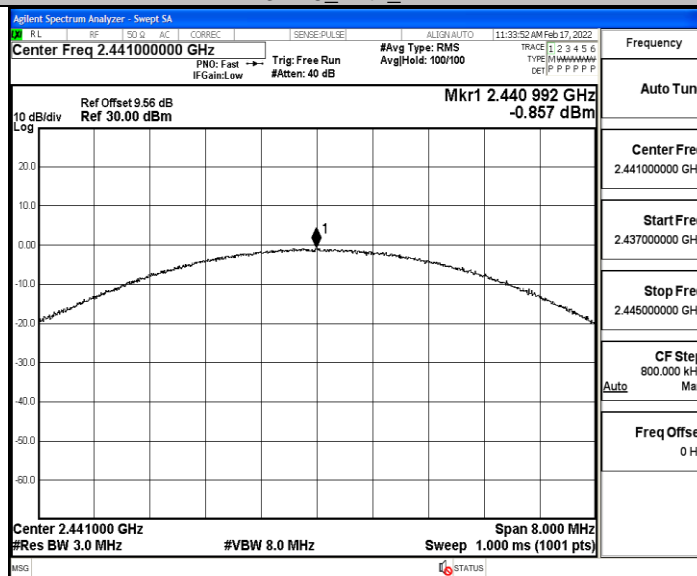
2DH5_Ant1_2480



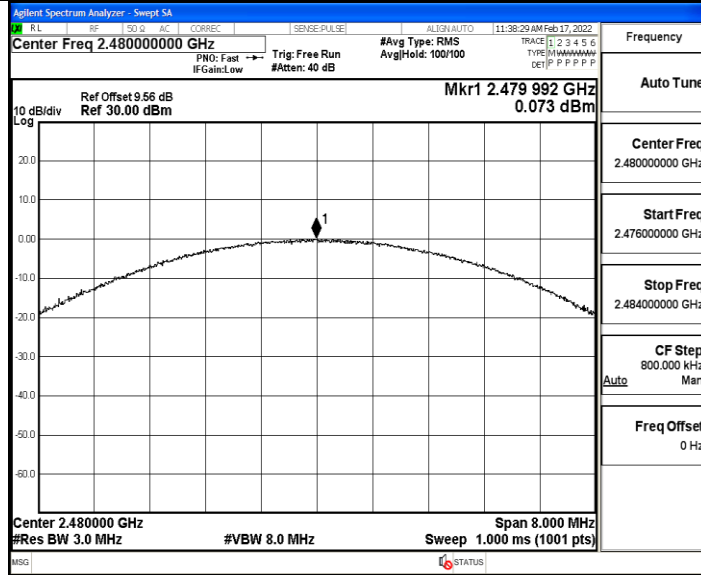
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

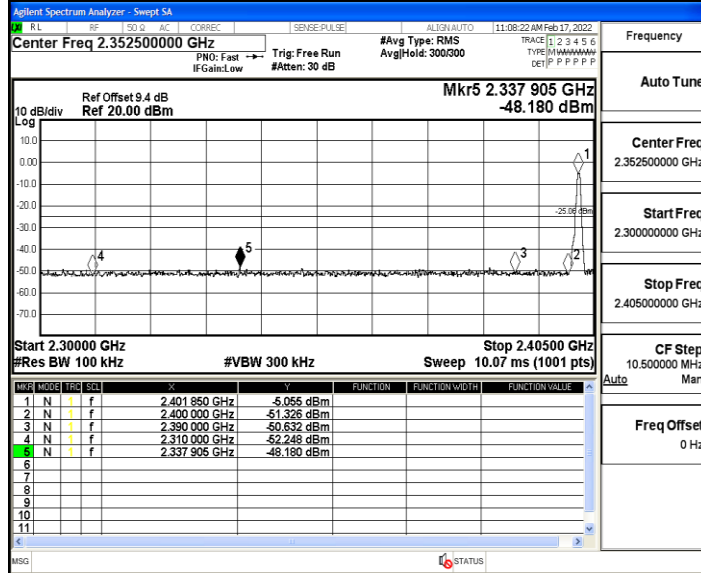


A.6 Band-edge for RF Conducted Emissions

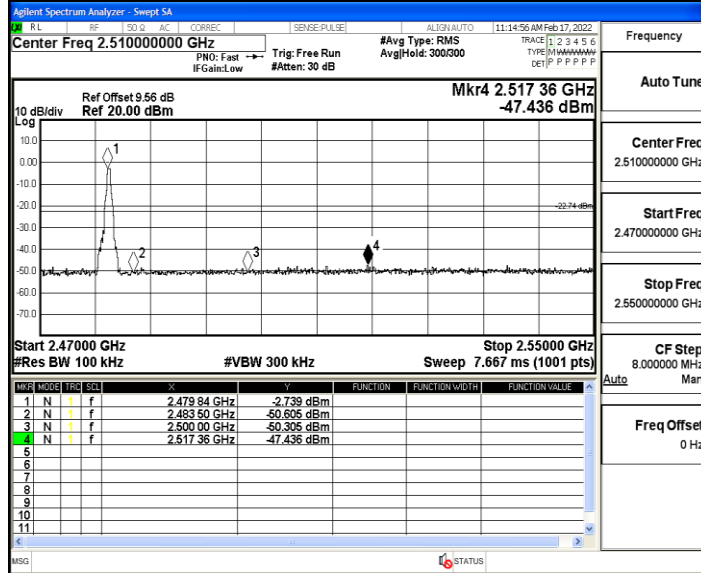
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.06	-48.18	≤-25.06	PASS
		High	2480	-2.74	-47.44	≤-22.74	PASS
		Low	Hop_2402	-5.76	-48.54	≤-25.76	PASS
		High	Hop_2480	-3.08	-47.06	≤-23.08	PASS
2DH5	Ant1	Low	2402	-5.66	-48.93	≤-25.66	PASS
		High	2480	-5.67	-47.54	≤-25.67	PASS
		Low	Hop_2402	-8.55	-48.88	≤-28.55	PASS
		High	Hop_2480	-2.92	-47.23	≤-22.92	PASS
3DH5	Ant1	Low	2402	-5.19	-48.43	≤-25.19	PASS
		High	2480	-2.71	-47	≤-22.71	PASS
		Low	Hop_2402	-7.56	-49.29	≤-27.56	PASS
		High	Hop_2480	-3.39	-47.95	≤-23.39	PASS

Test Graph

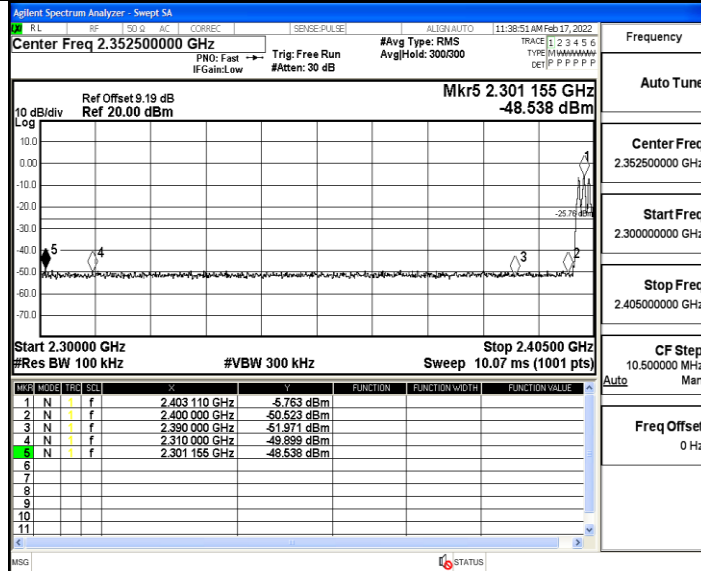
DH5_Ant1_Low_2402



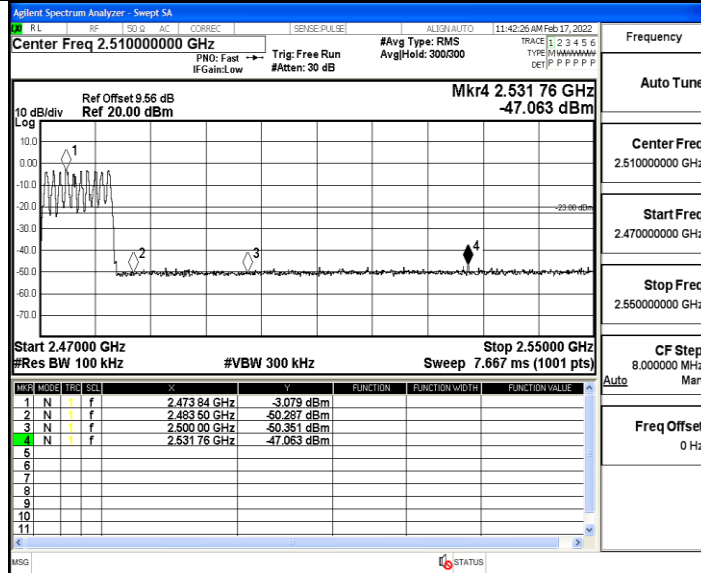
DH5_Ant1_High_2480



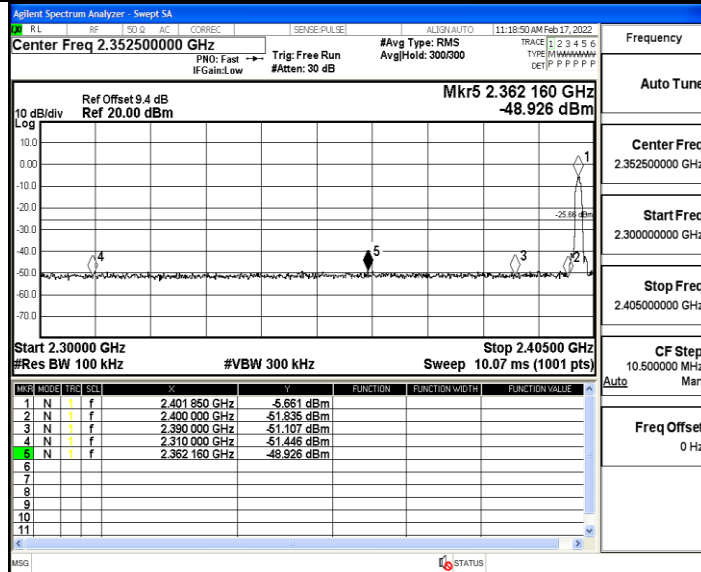
DH5_Ant1_Low_Hop_2402



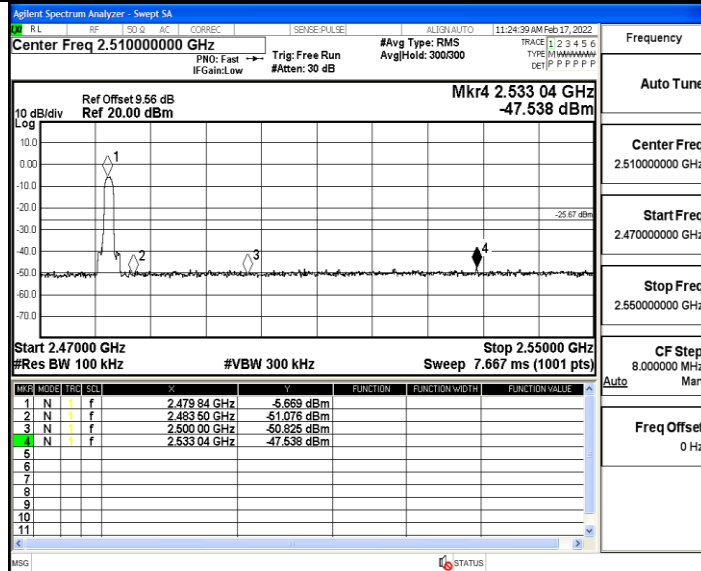
DH5_Ant1_High_Hop_2480



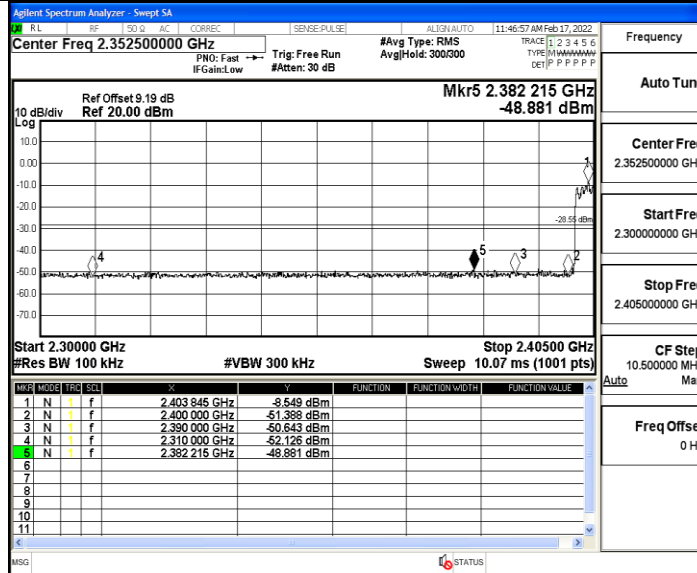
2DH5_Ant1_Low_2402



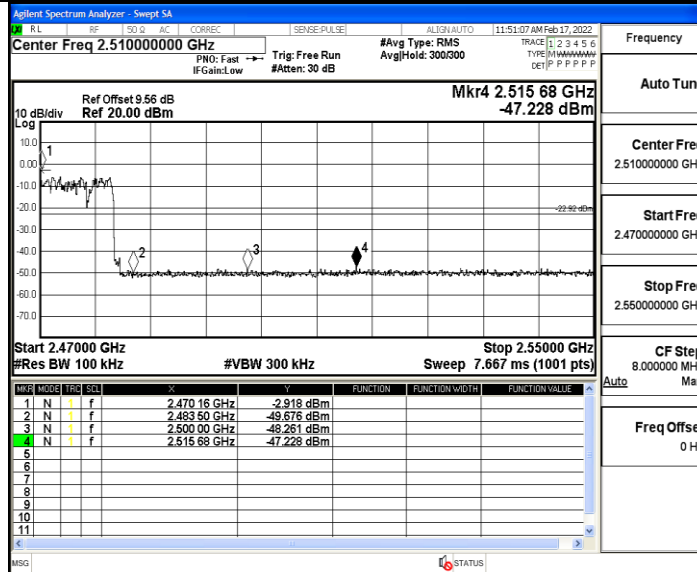
2DH5_Ant1_High_2480



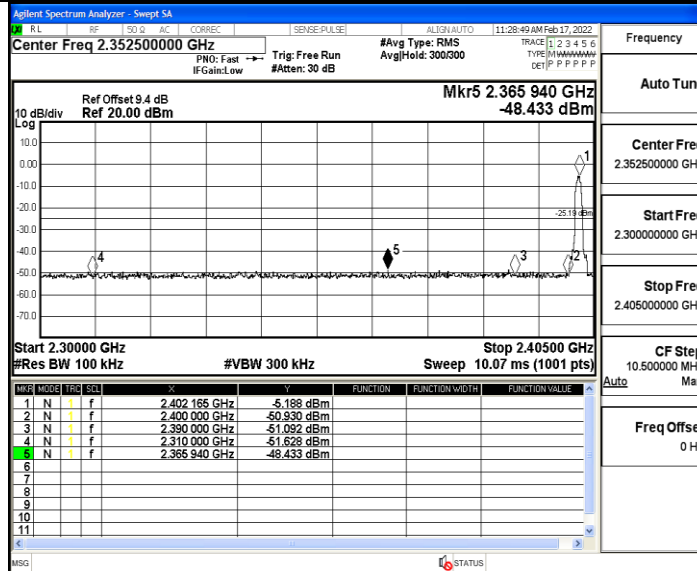
2DH5_Ant1_Low_Hop_2402



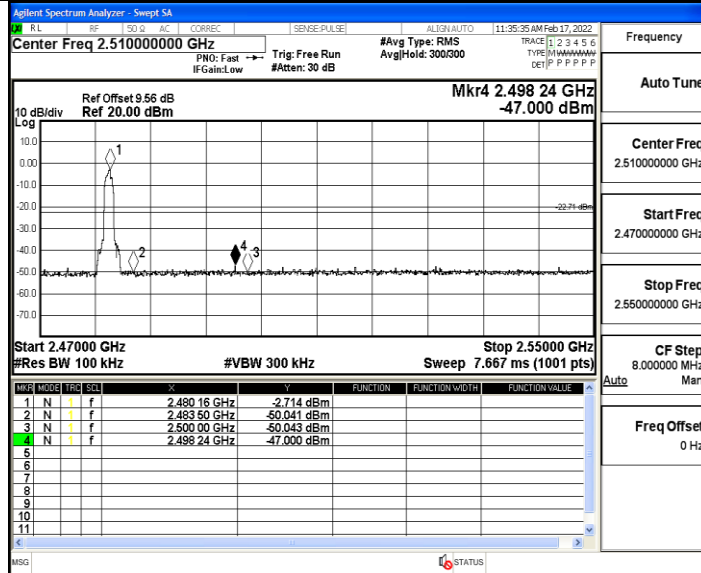
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

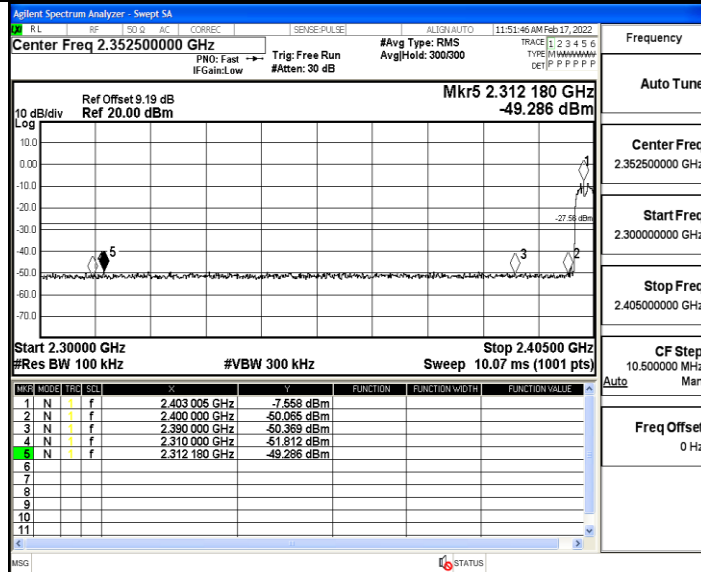


3DH5_Ant1_High_2480



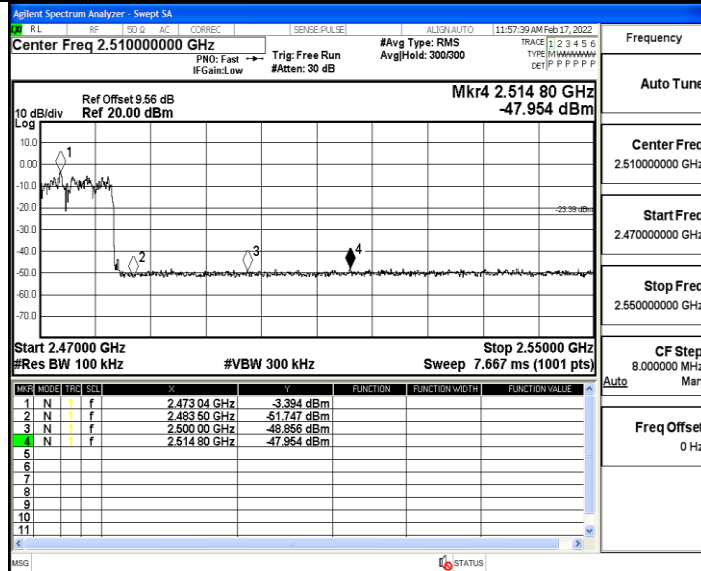
Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

3DH5_Ant1_Low_Hop_2402



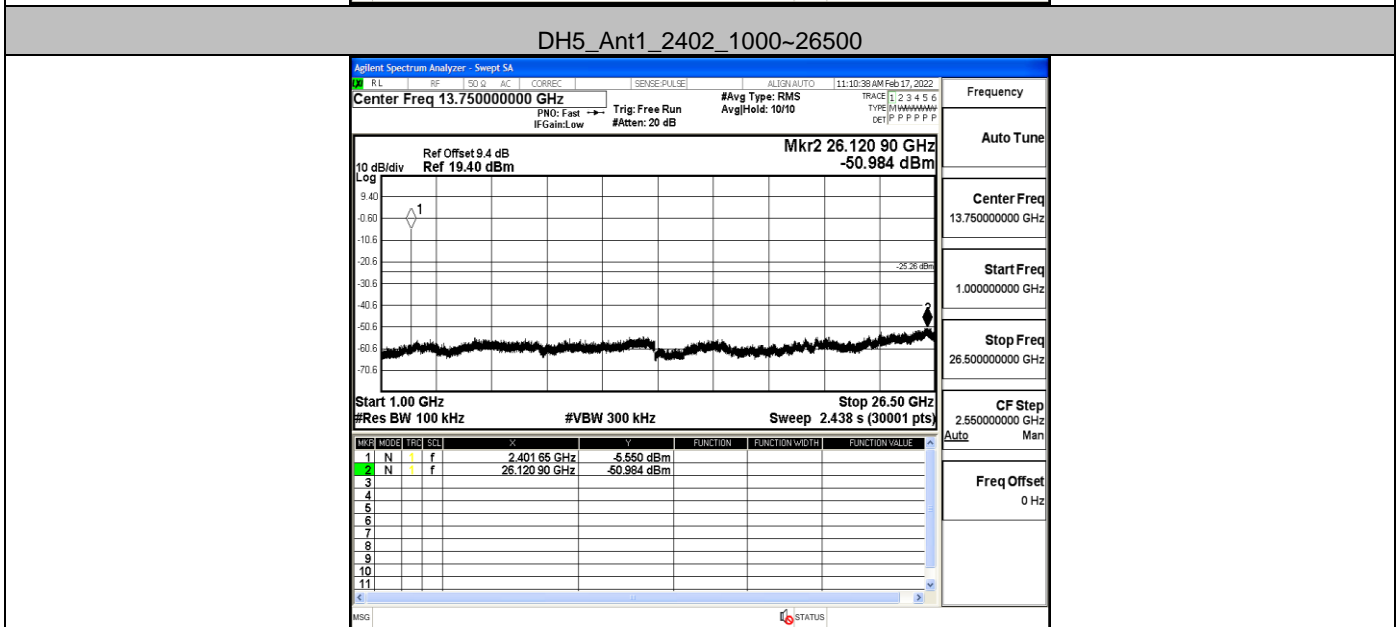
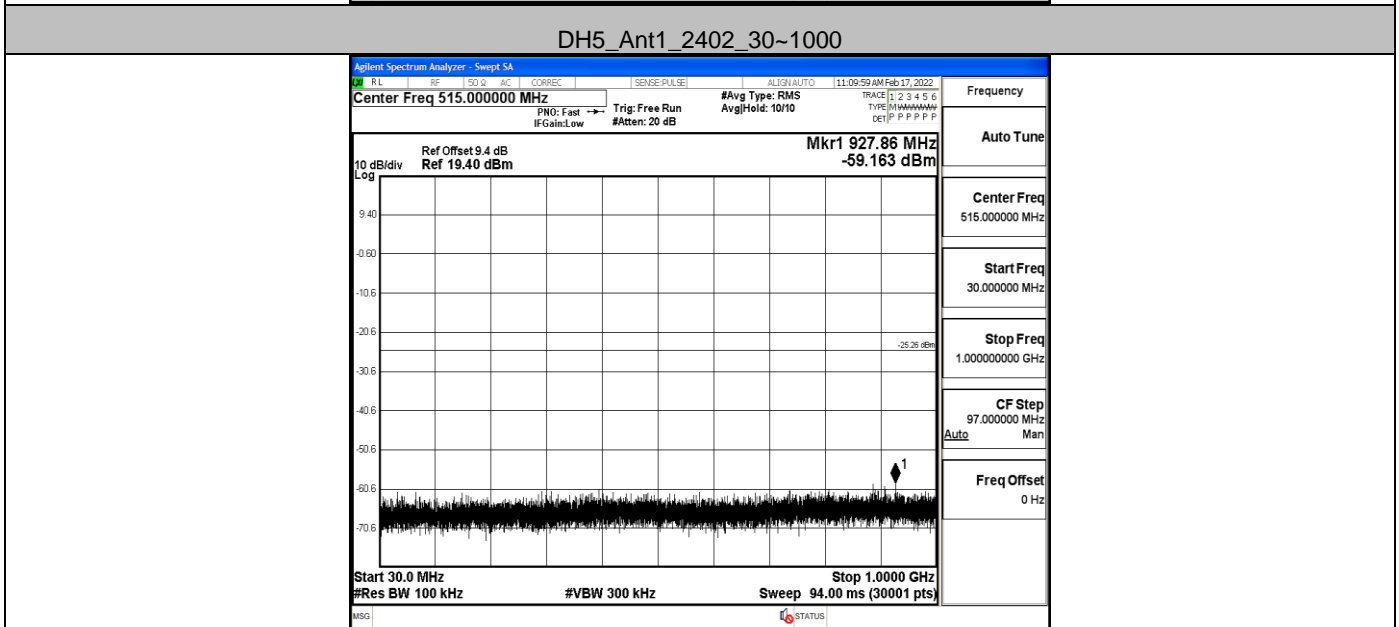
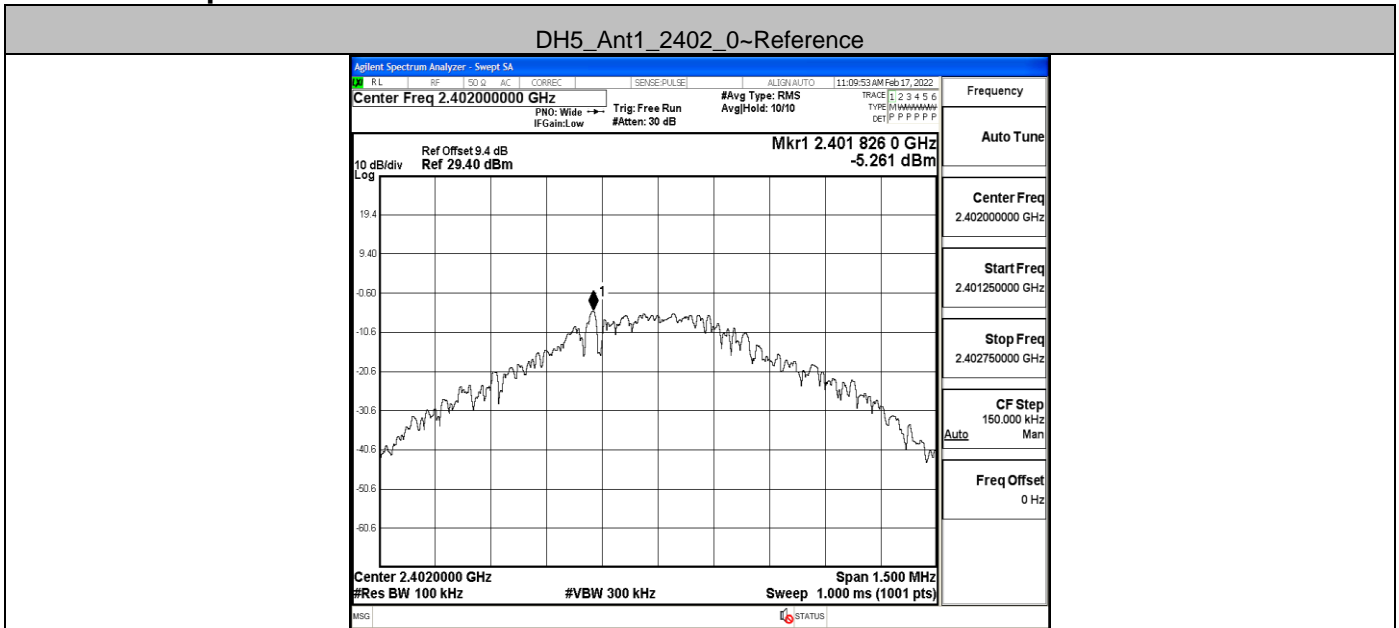
Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

3DH5_Ant1_High_Hop_2480

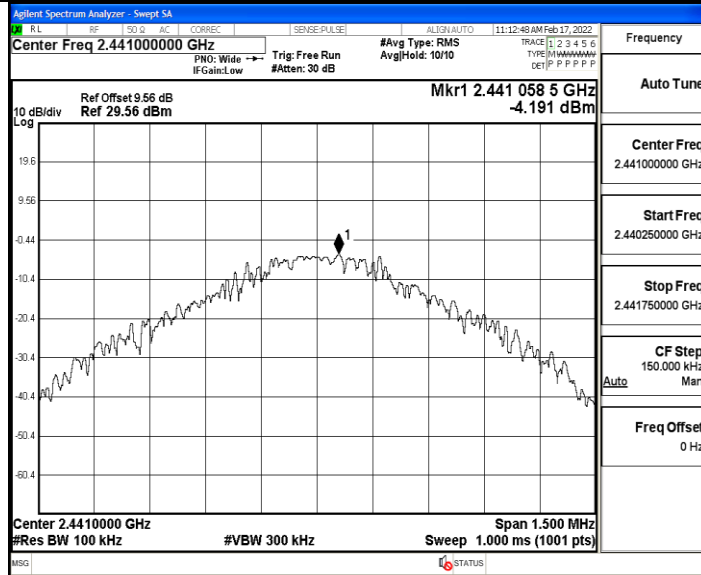


Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

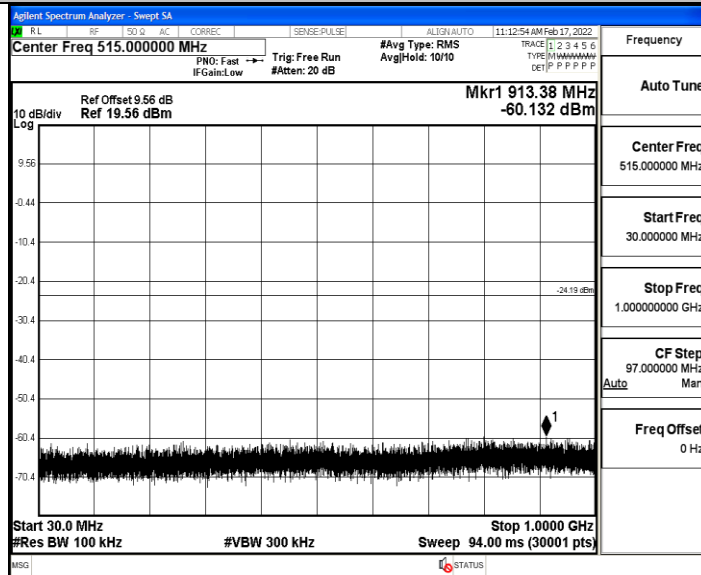
A.7 RF Conducted Spurious Emissions Test Graph



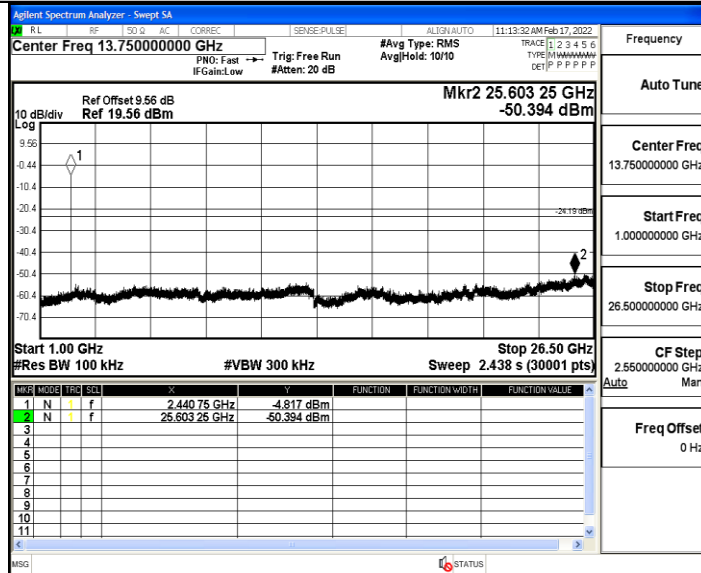
DH5_Ant1_2441_0-Reference



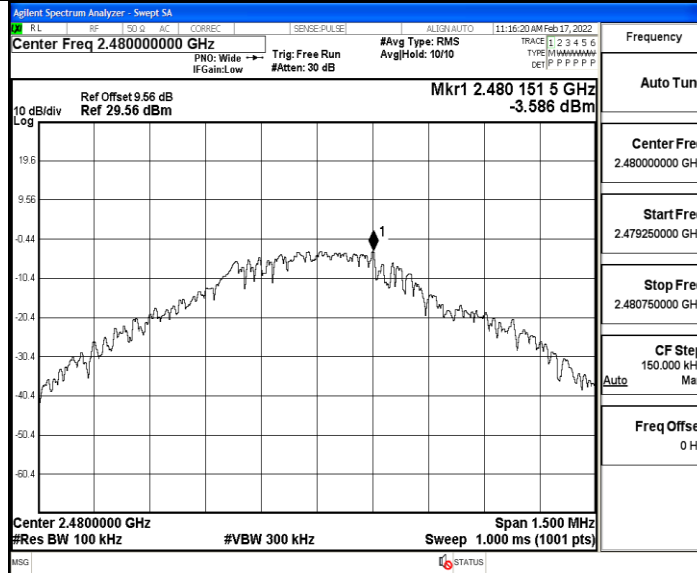
DH5_Ant1_2441_30-1000



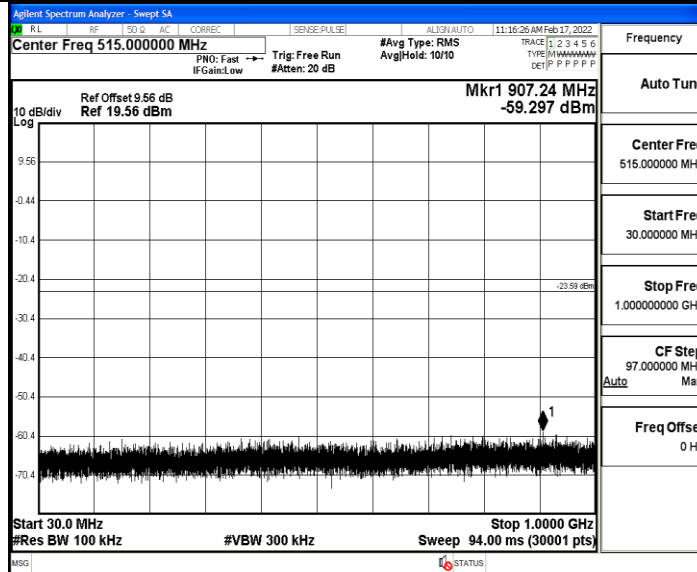
DH5_Ant1_2441_1000-26500



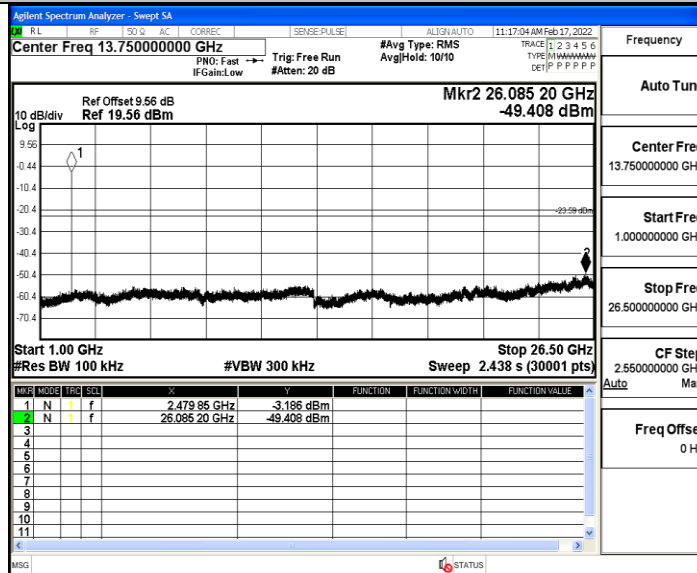
DH5_Ant1_2480_0~Reference



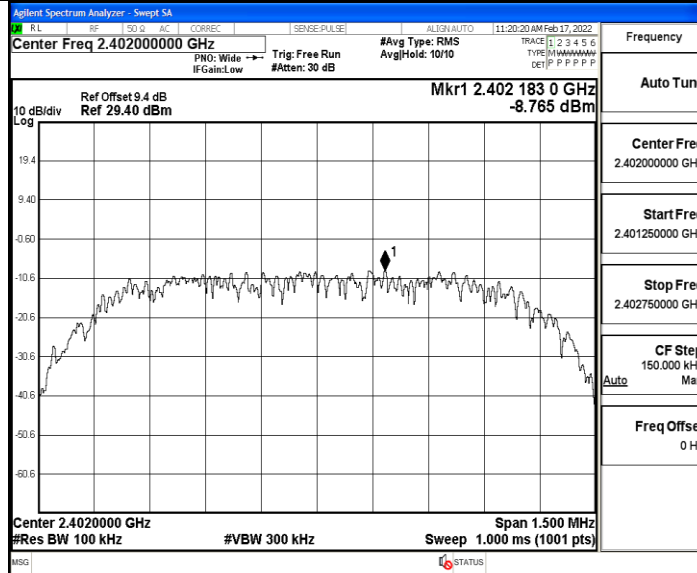
DH5_Ant1_2480_30~1000



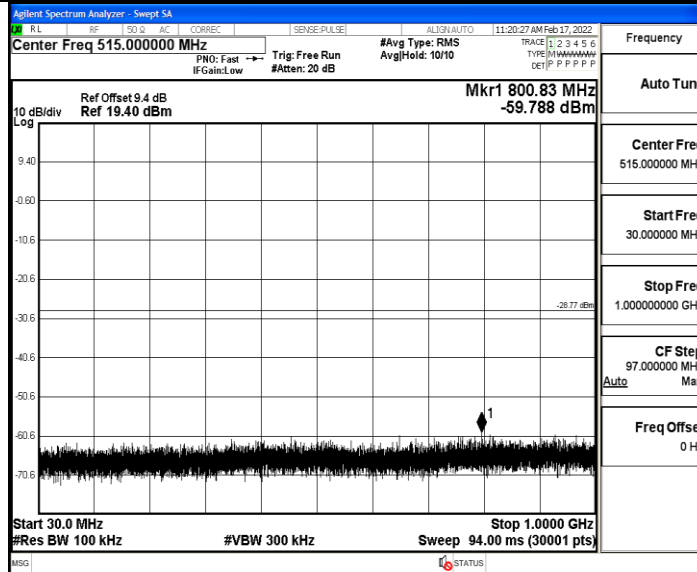
DH5_Ant1_2480_1000~26500



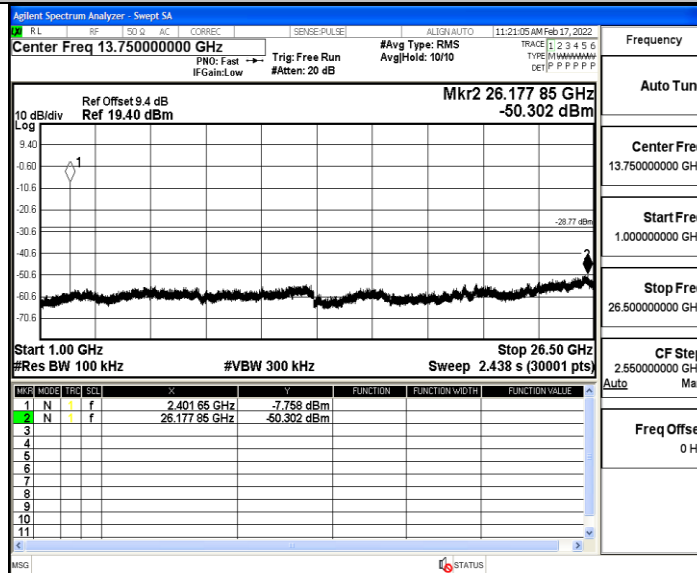
2DH5_Ant1_2402_0~Reference



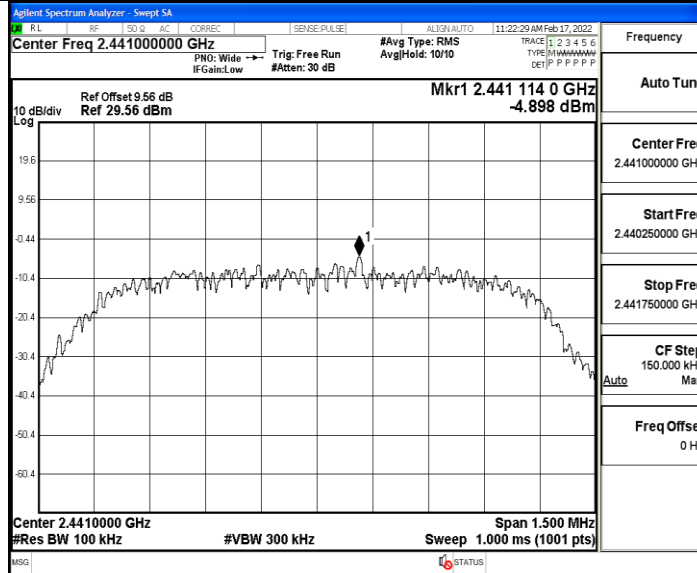
2DH5_Ant1_2402_30~1000



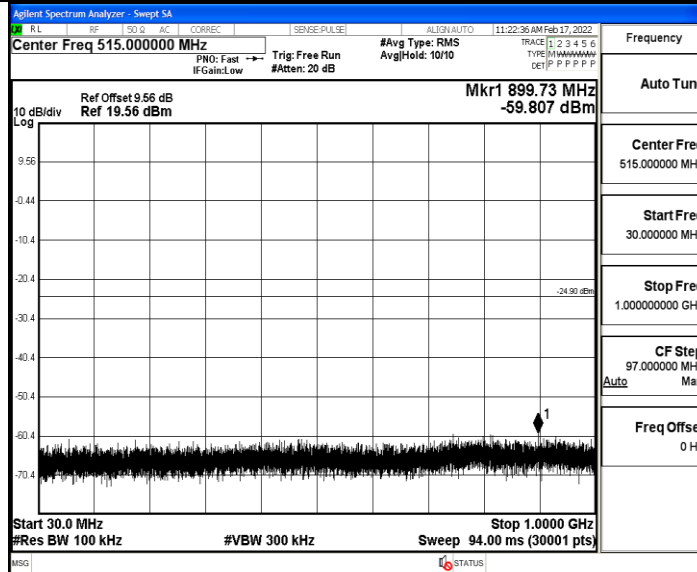
2DH5_Ant1_2402_1000~26500



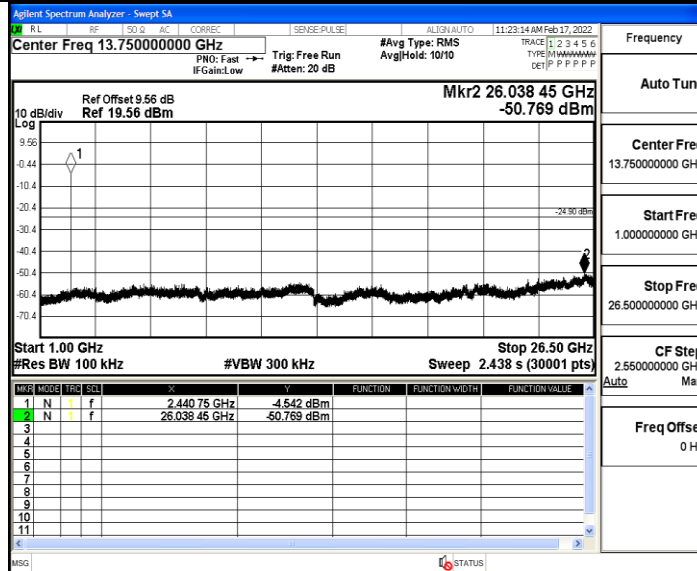
2DH5_Ant1_2441_0~Reference



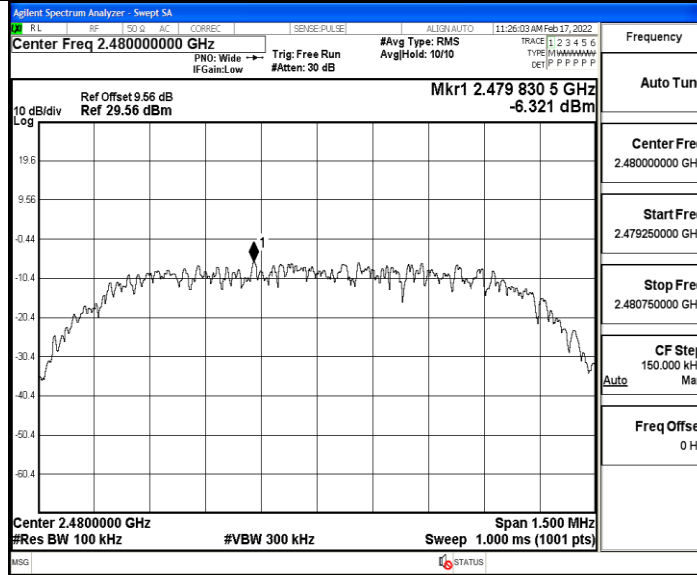
2DH5_Ant1_2441_30~1000



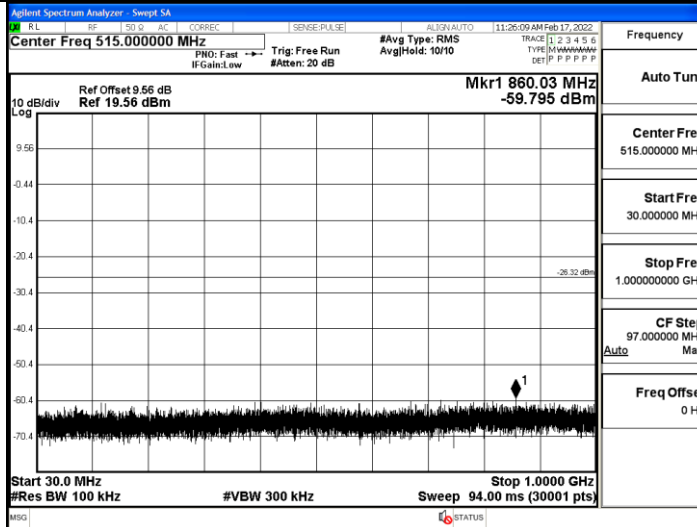
2DH5_Ant1_2441_1000~26500



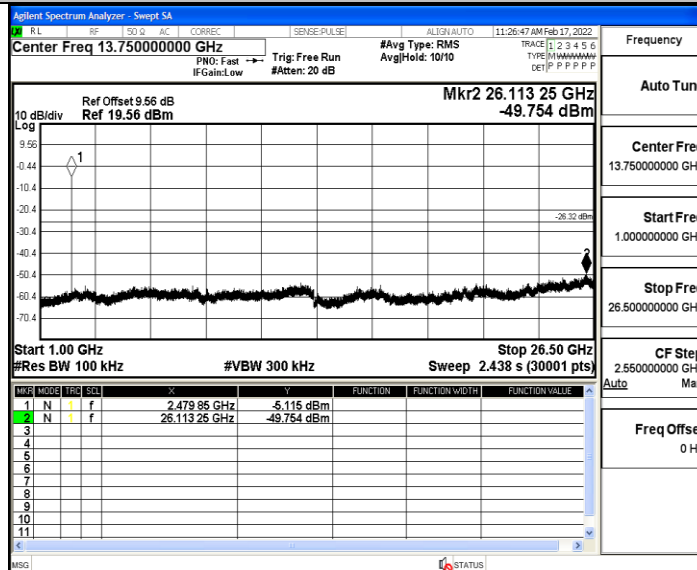
2DH5_Ant1_2480_0~Reference



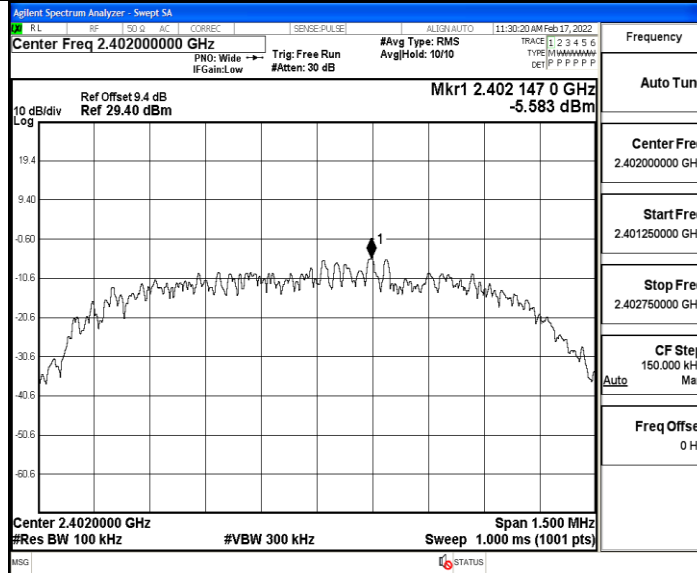
2DH5_Ant1_2480_30~1000



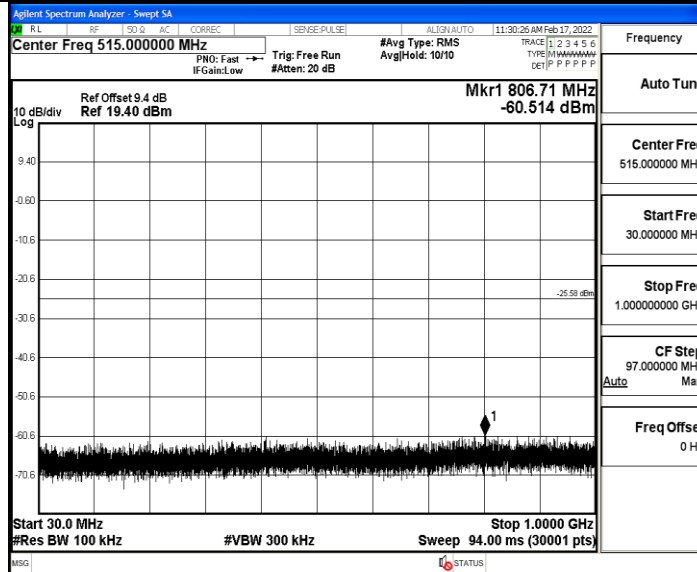
2DH5_Ant1_2480_1000~26500



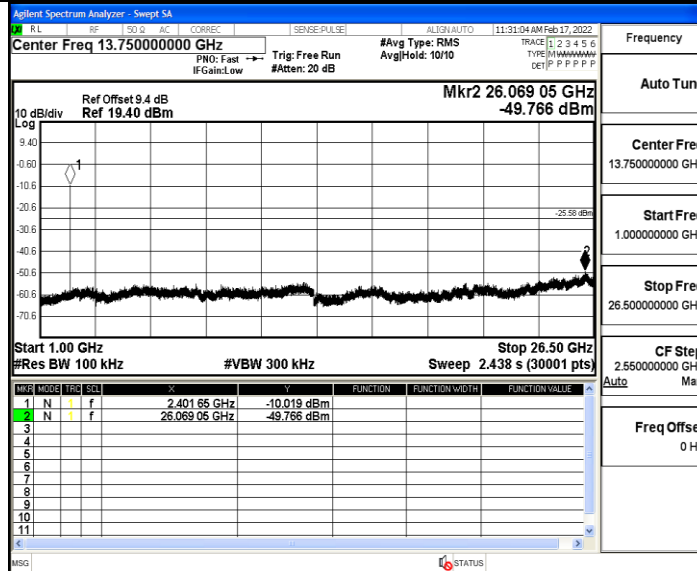
3DH5_Ant1_2402_0~Reference



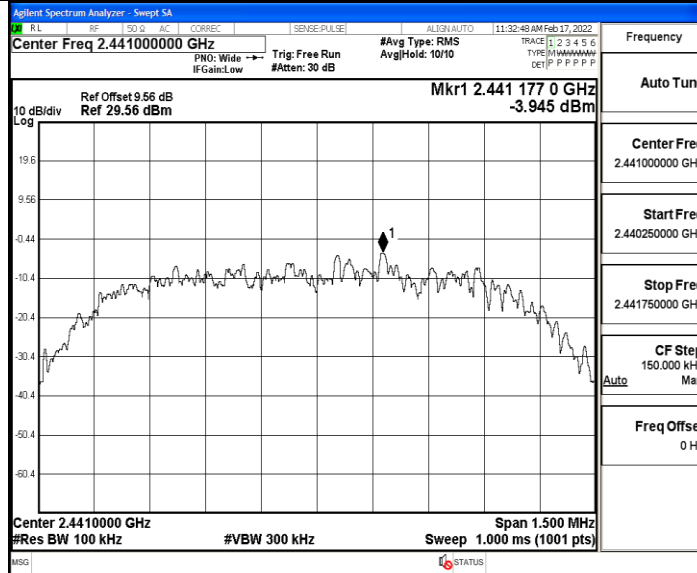
3DH5_Ant1_2402_30~1000



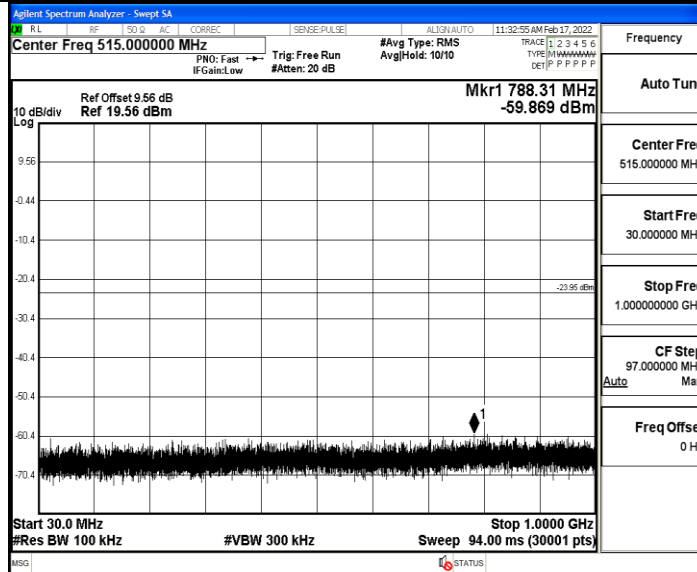
3DH5_Ant1_2402_1000~26500



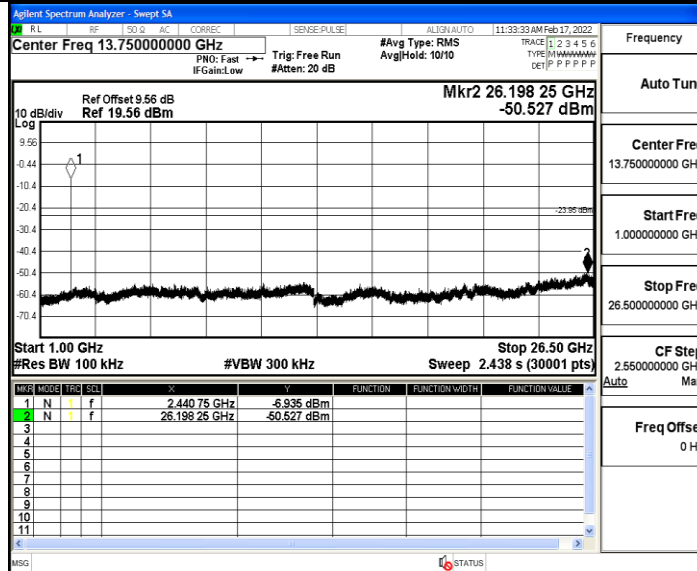
3DH5_Ant1_2441_0~Reference



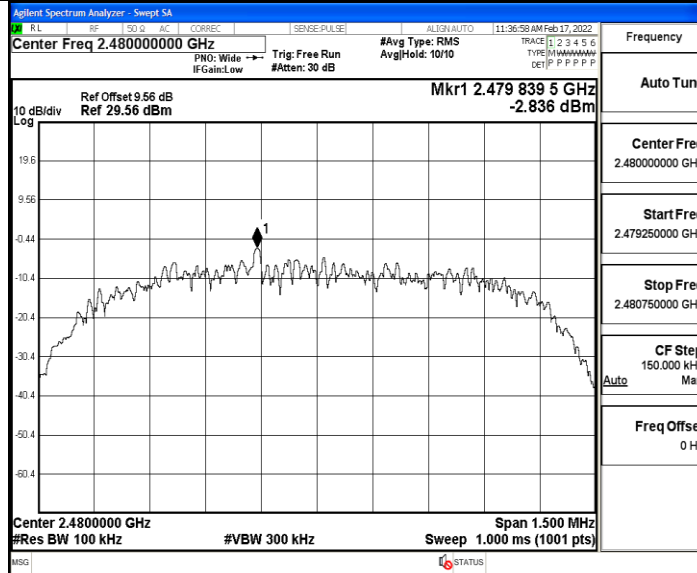
3DH5_Ant1_2441_30~1000



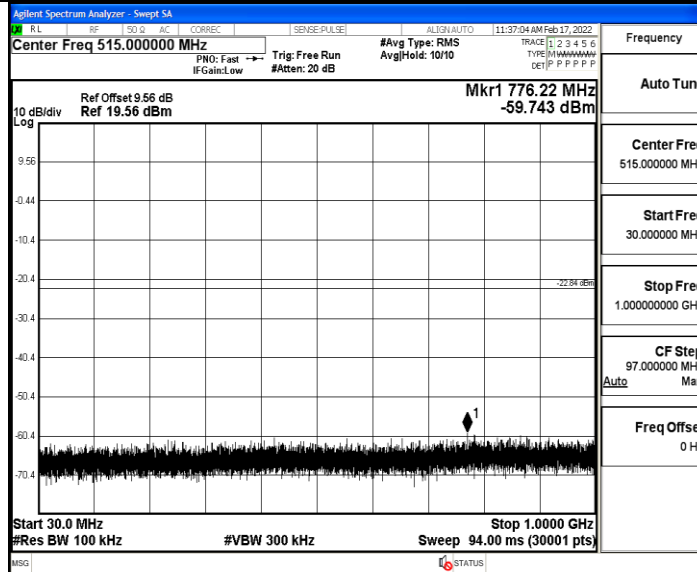
3DH5_Ant1_2441_1000~26500



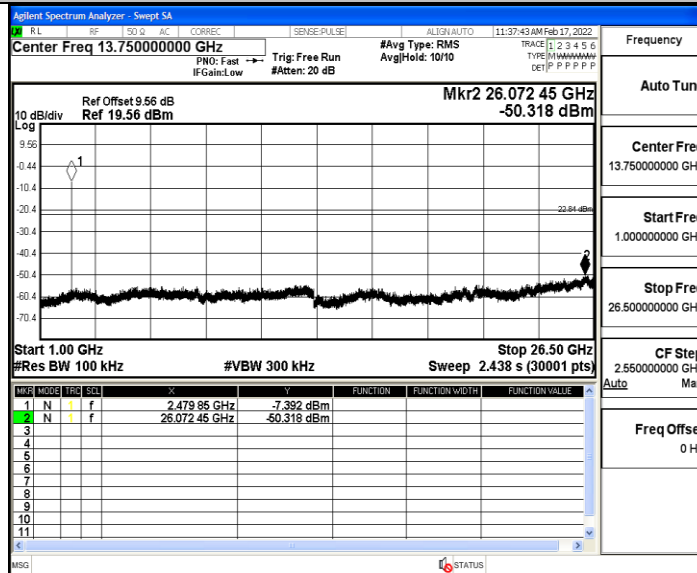
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



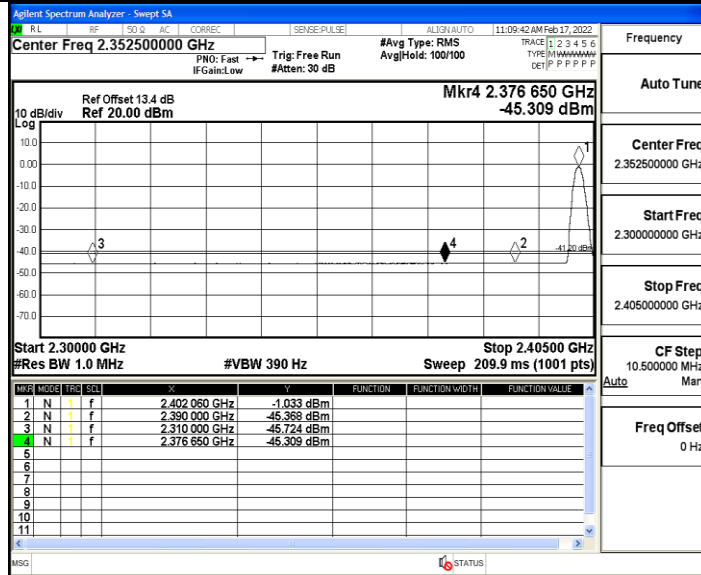
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Ve
DH5	Ant1	Low	2402	AV	2310.000	-45.72	≤-41.20	P _f
				AV	2376.650	-45.31	≤-41.20	P _f
				AV	2390.000	-45.37	≤-41.20	P _f
				Peak	2310.000	-38.11	≤-21.20	P _f
				Peak	2359.640	-34.72	≤-21.20	P _f
				Peak	2390.000	-38.84	≤-21.20	P _f
		High	2480	AV	2483.500	-44.87	≤-41.20	P _f
				AV	2492.800	-44.68	≤-41.20	P _f
				AV	2500.000	-44.75	≤-41.20	P _f
				Peak	2483.500	-38.18	≤-21.20	P _f
				Peak	2494.960	-34.66	≤-21.20	P _f
				Peak	2500.000	-37.47	≤-21.20	P _f
2DH5	Ant1	Low	2402	AV	2310.000	-45.53	≤-41.20	P _f
				AV	2389.250	-45.31	≤-41.20	P _f
				AV	2390.000	-45.45	≤-41.20	P _f
				Peak	2310.000	-38.99	≤-21.20	P _f
				Peak	2317.010	-35.34	≤-21.20	P _f
				Peak	2390.000	-38.37	≤-21.20	P _f
		High	2480	AV	2483.500	-44.86	≤-41.20	P _f
				AV	2499.520	-44.7	≤-41.20	P _f
				AV	2500.000	-44.71	≤-41.20	P _f
				Peak	2483.500	-38.44	≤-21.20	P _f
				Peak	2494.560	-34.85	≤-21.20	P _f
				Peak	2500.000	-35.39	≤-21.20	P _f
3DH5	Ant1	Low	2402	AV	2310.000	-45.77	≤-41.20	P _f
				AV	2387.045	-45.37	≤-41.20	P _f
				AV	2390.000	-45.47	≤-41.20	P _f
				Peak	2310.000	-39.2	≤-21.20	P _f
				Peak	2375.705	-35.05	≤-21.20	P _f
				Peak	2390.000	-37.32	≤-21.20	P _f
		High	2480	AV	2483.500	-44.72	≤-41.20	P _f
				AV	2499.520	-44.63	≤-41.20	P _f
				AV	2500.000	-44.77	≤-41.20	P _f
				Peak	2483.500	-38.09	≤-21.20	P _f
				Peak	2489.840	-35.1	≤-21.20	P _f
				Peak	2500.000	-38.28	≤-21.20	P _f

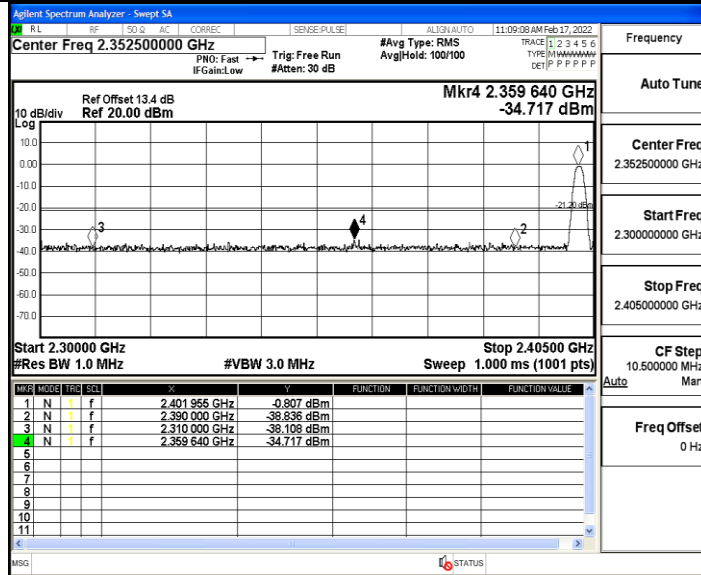
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

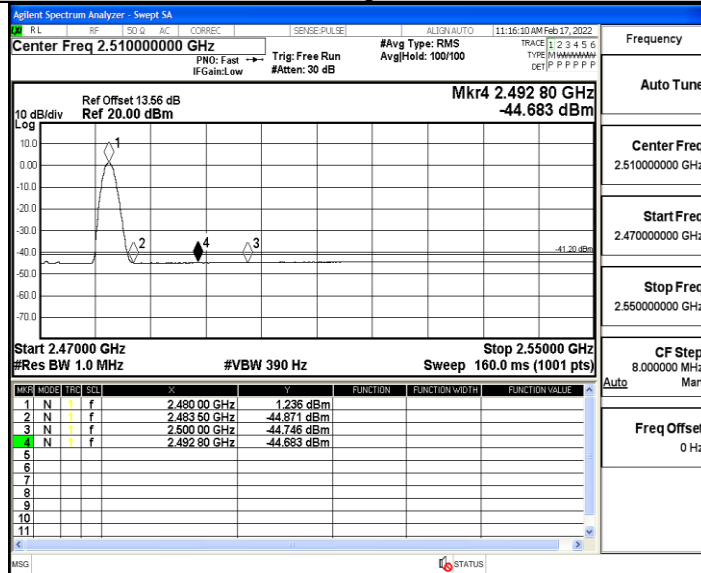
DH5_Ant1_Low_2402_AV



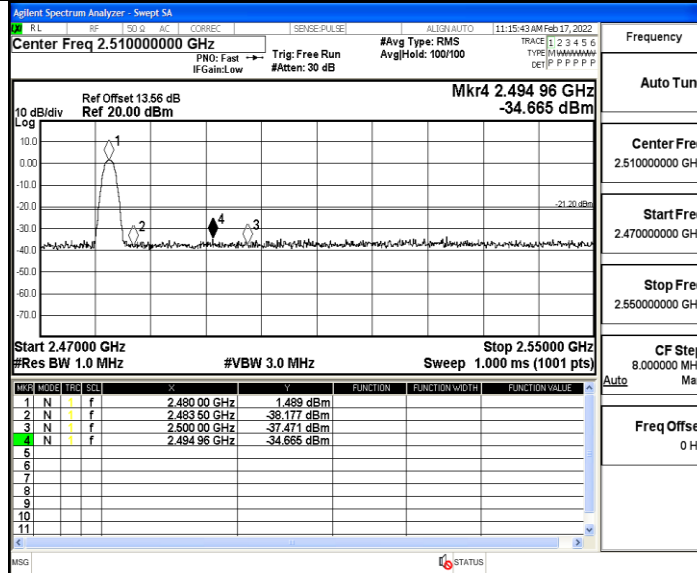
DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

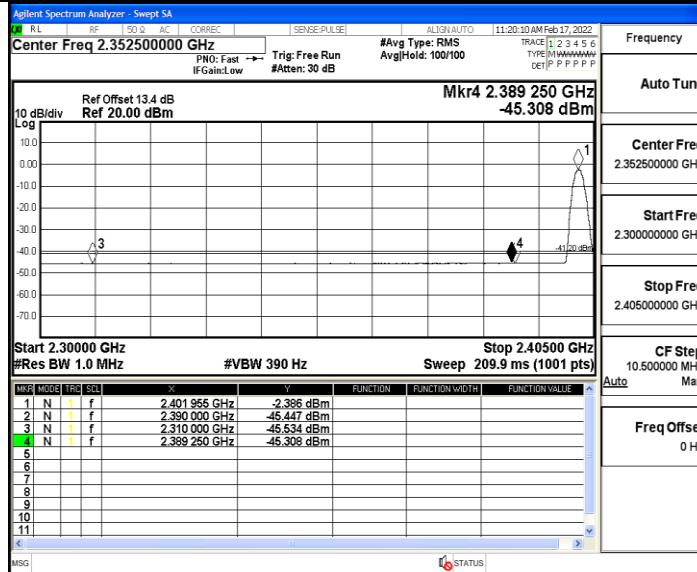


DH5_Ant1_High_2480_Peak



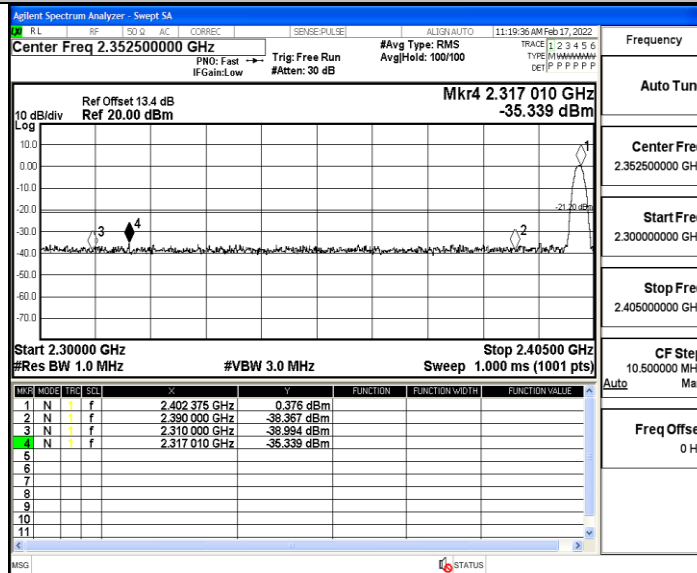
Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

2DH5_Ant1_Low_2402_AV



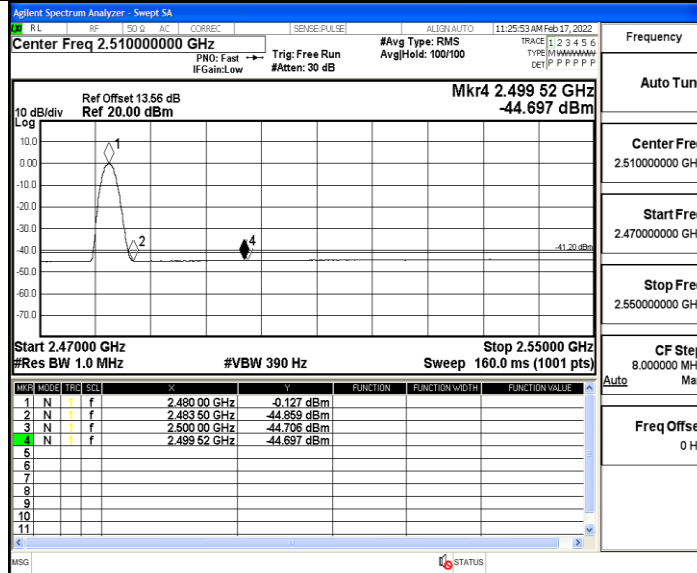
Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

2DH5_Ant1_Low_2402_Peak

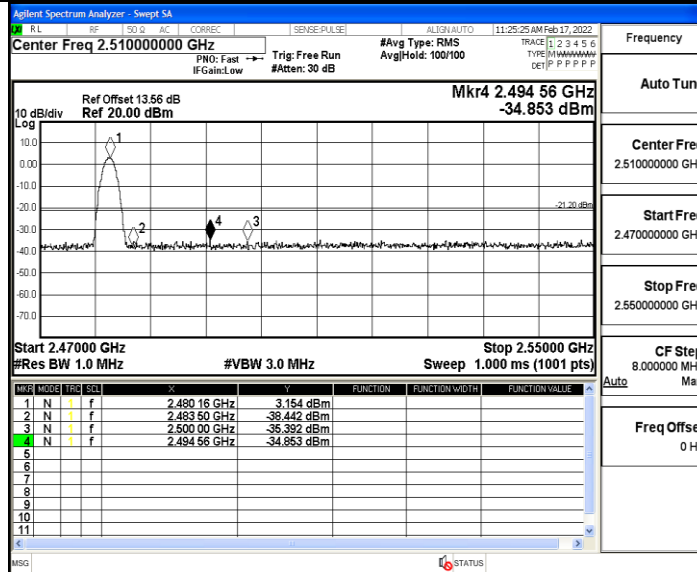


Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

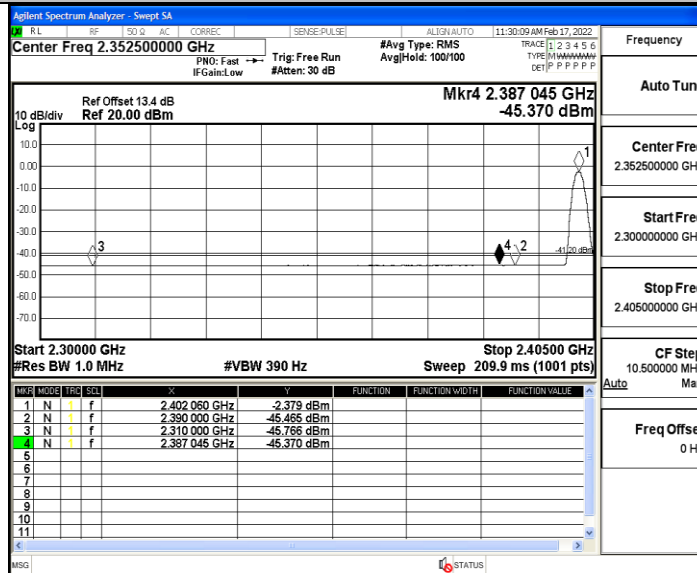
2DH5_Ant1_High_2480_AV



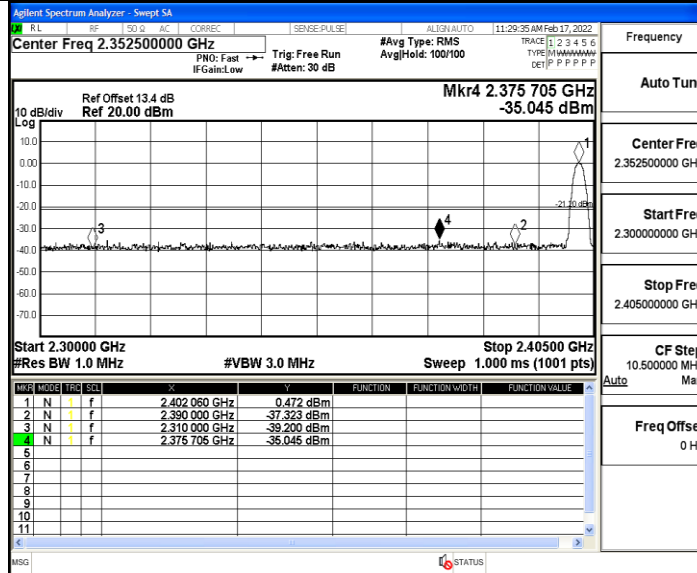
2DH5_Ant1_High_2480_Peak



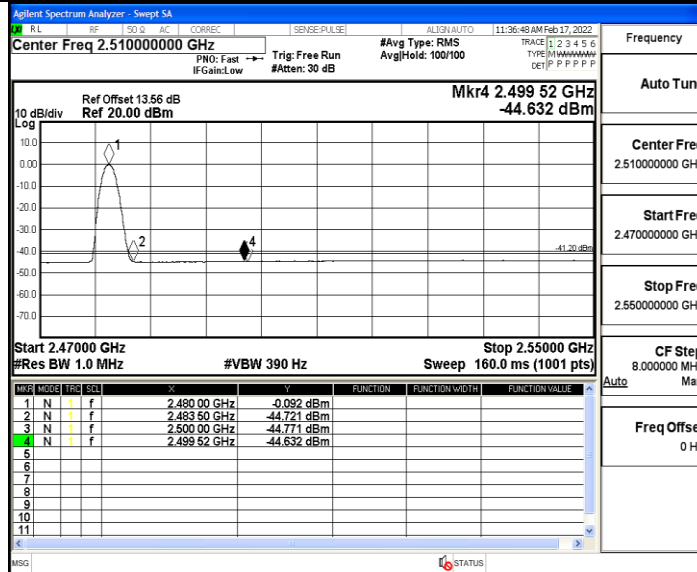
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

