

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

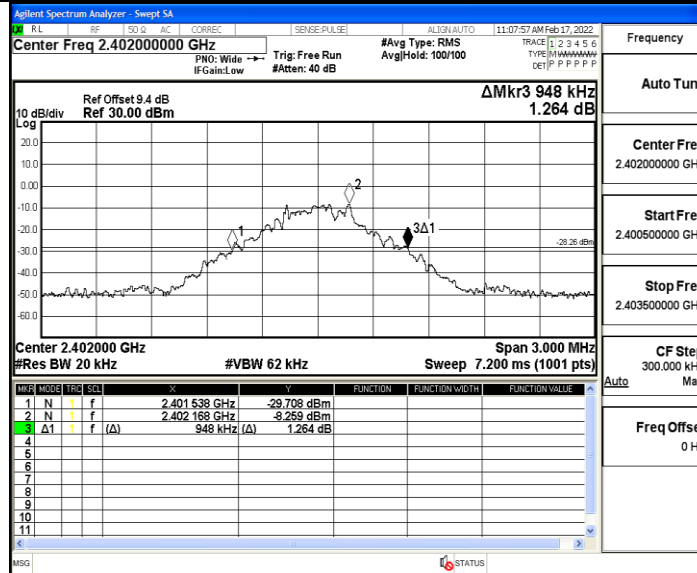
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1 20 dB Bandwidth

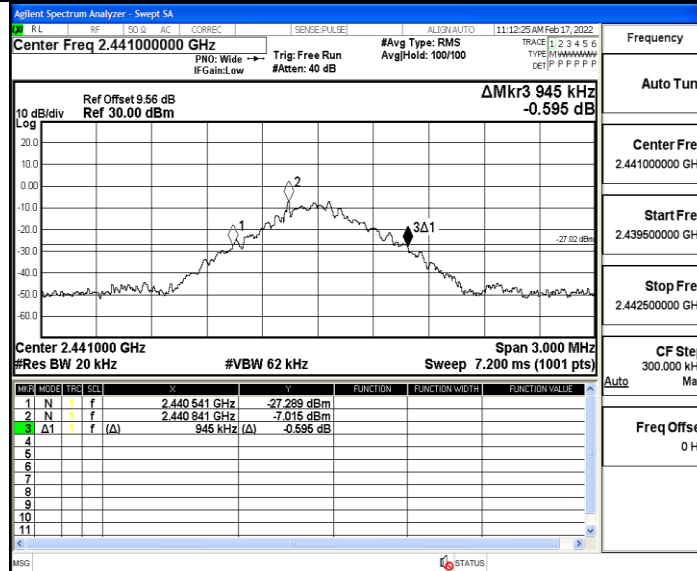
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---	---
		2441	0.945	2440.541	2441.486	---	---
		2480	0.942	2479.541	2480.483	---	---
2DH5	Ant1	2402	1.308	2401.346	2402.654	---	---
		2441	1.314	2440.343	2441.657	---	---
		2480	1.311	2479.346	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

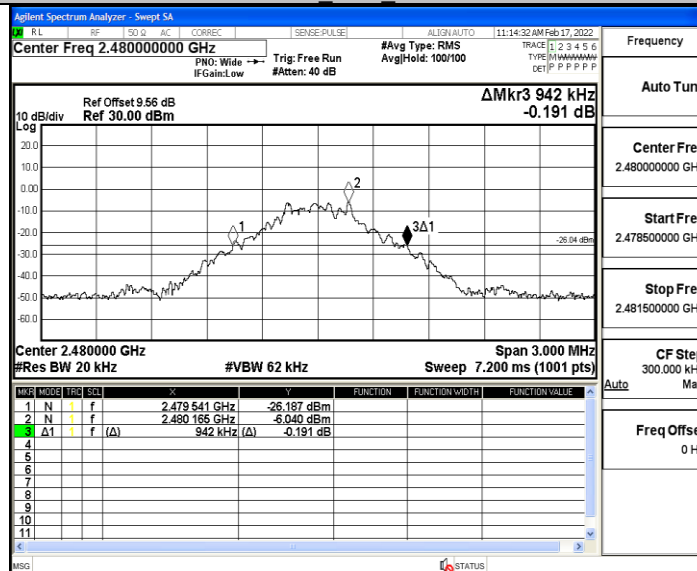
DH5_Ant1_2402



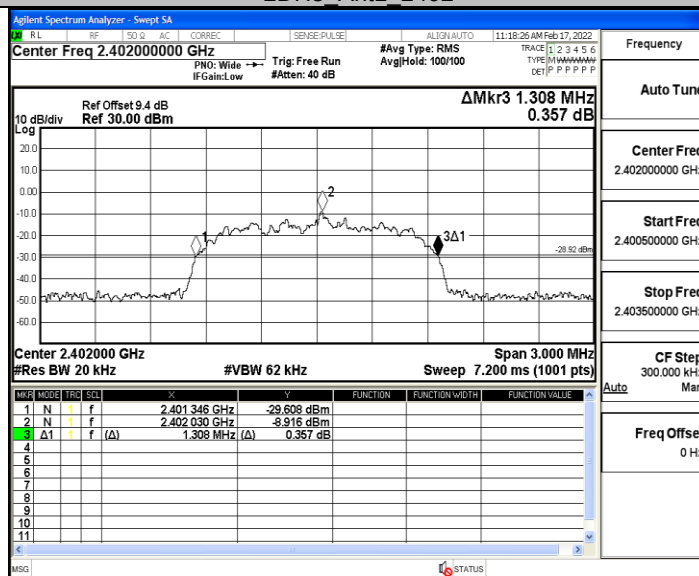
DH5_Ant1_2441



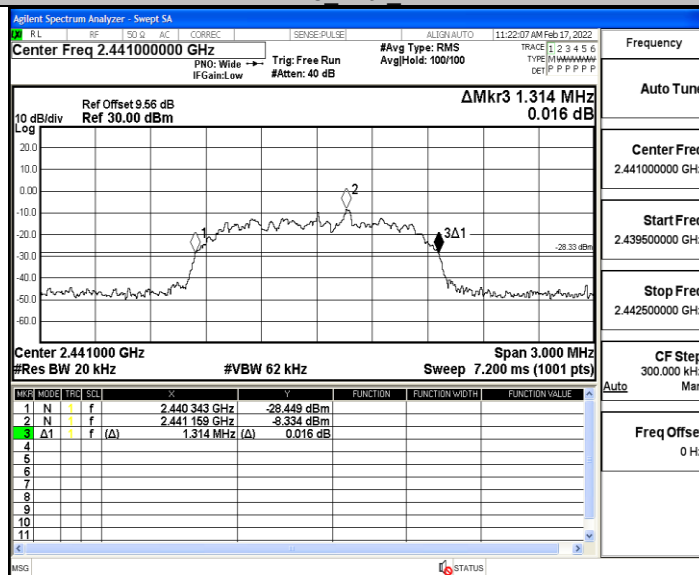
DH5_Ant1_2480



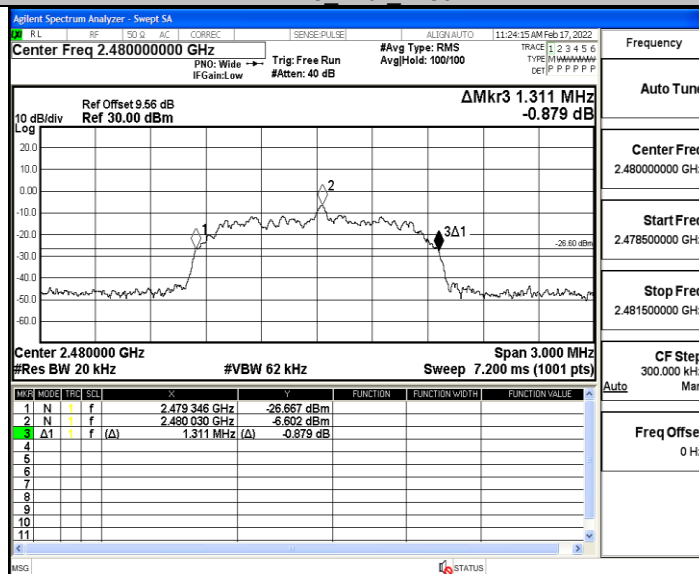
2DH5_Ant1_2402



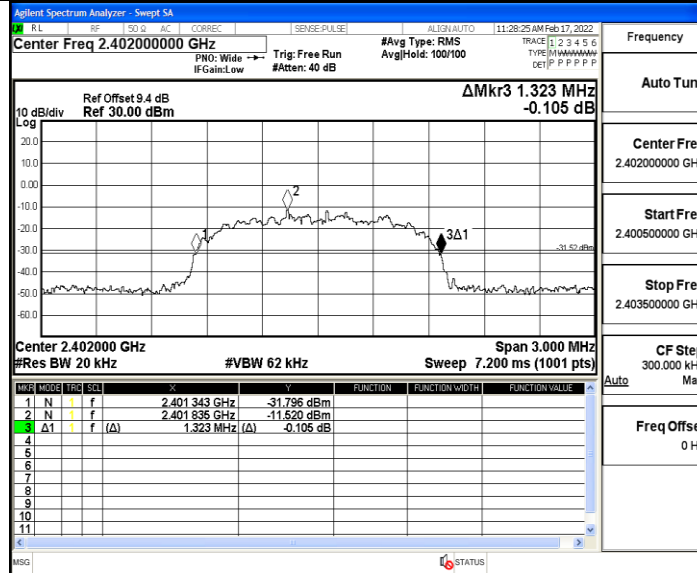
2DH5_Ant1_2441



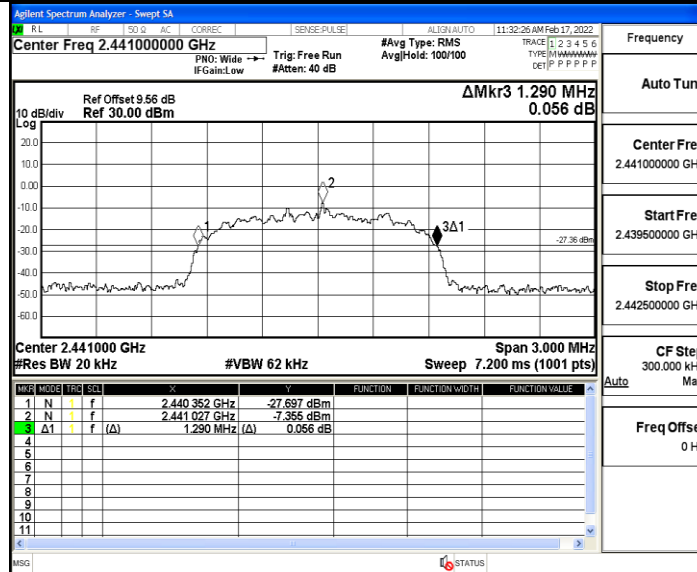
2DH5_Ant1_2480



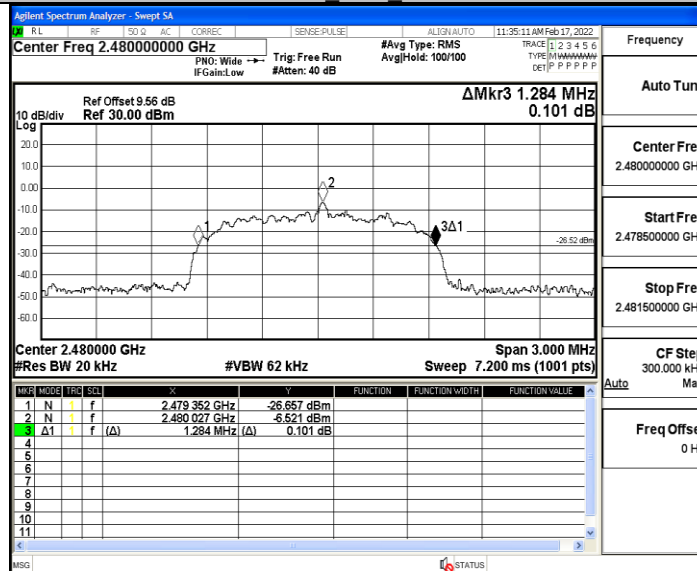
3DH5_Ant1_2402



3DH5_Ant1_2441



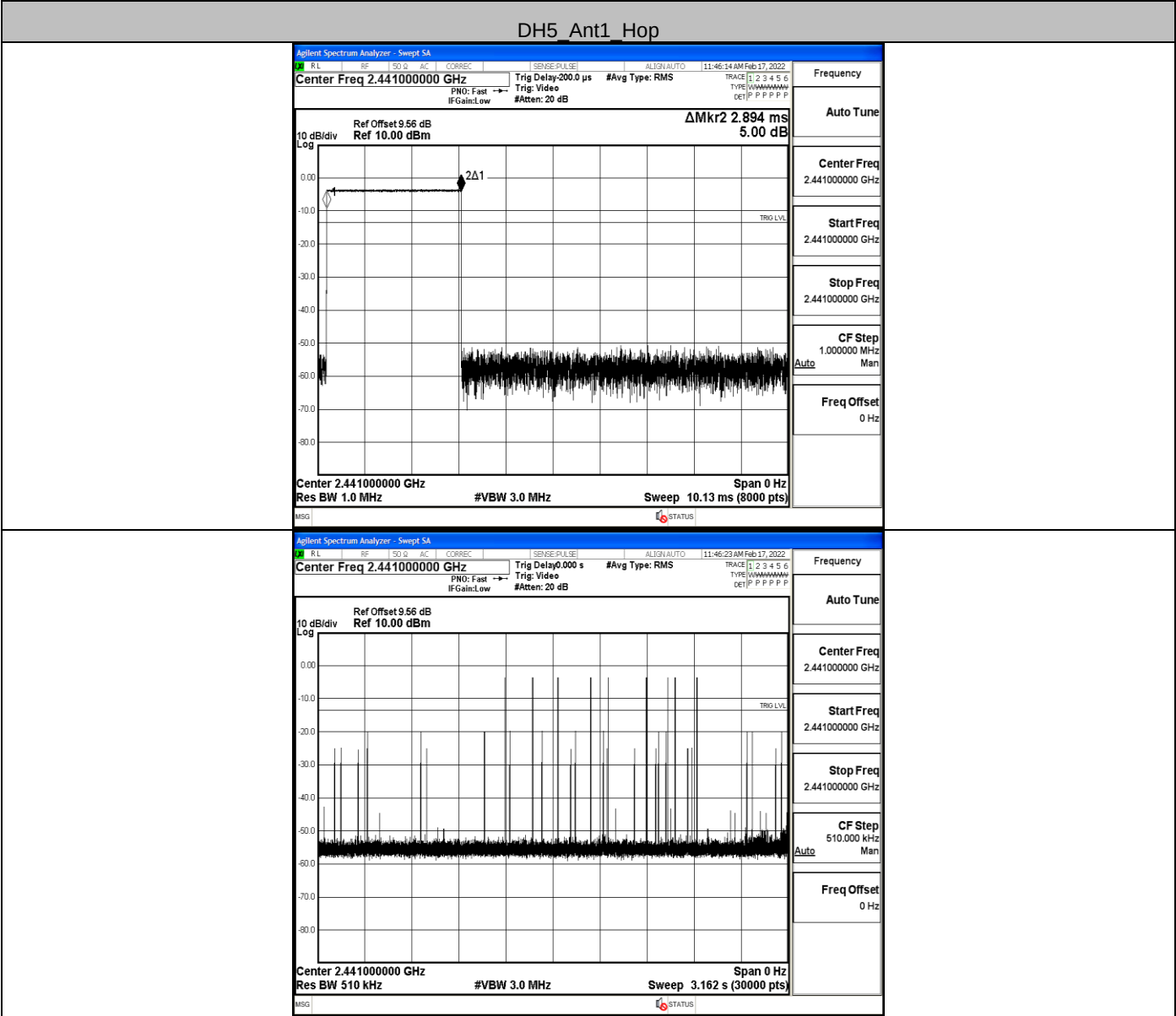
3DH5_Ant1_2480



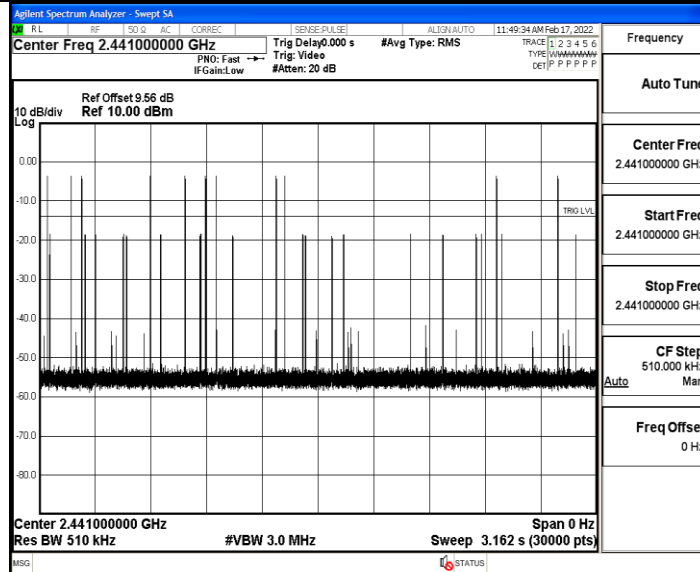
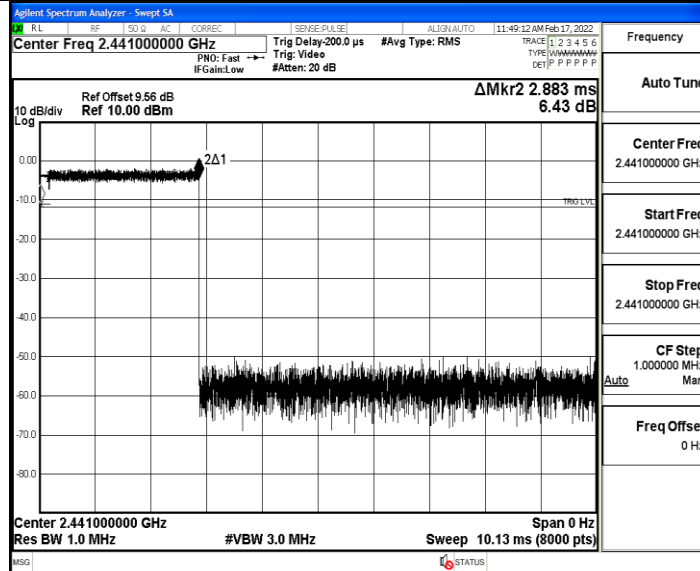
A.2 Dwell Time

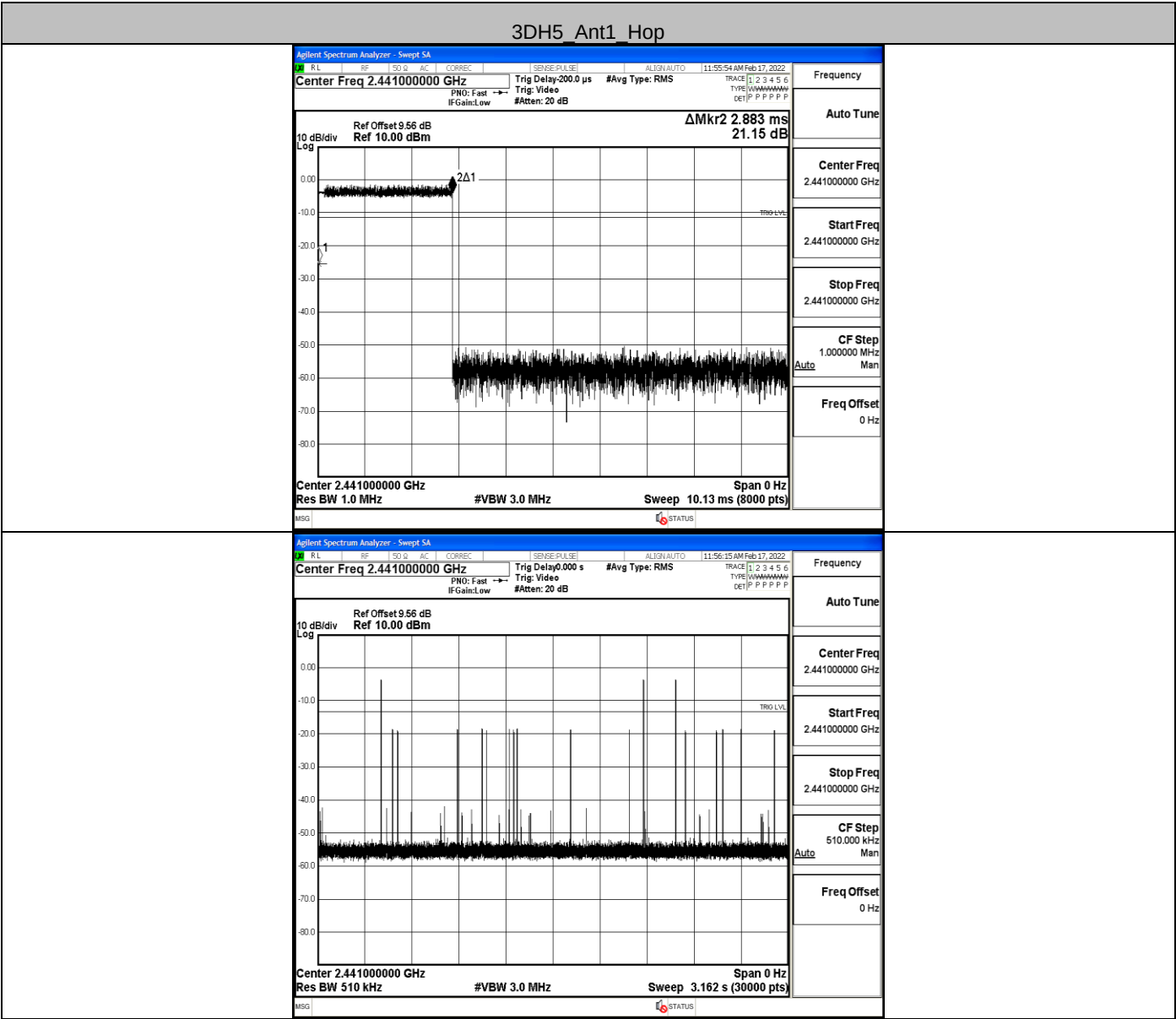
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
3DH5	Ant1	Hop	2.88	40	0.115	≤0.4	PASS

Test Graph



2DH5_Ant1_Hop



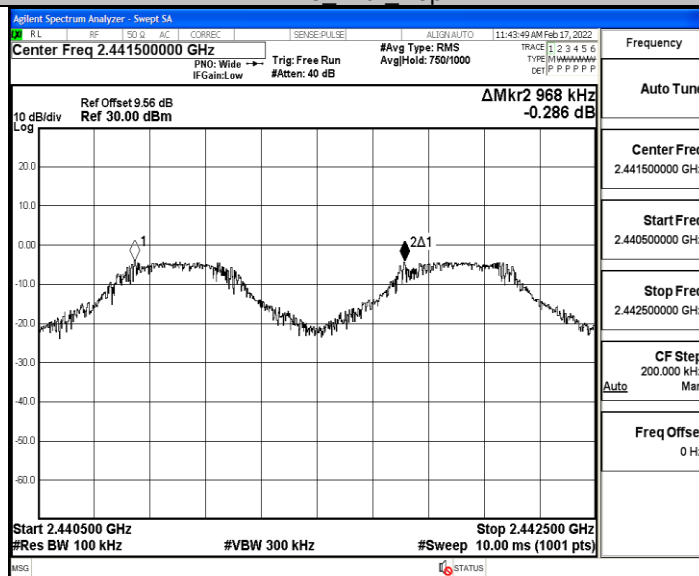


A.3 Carrier Frequency Separation

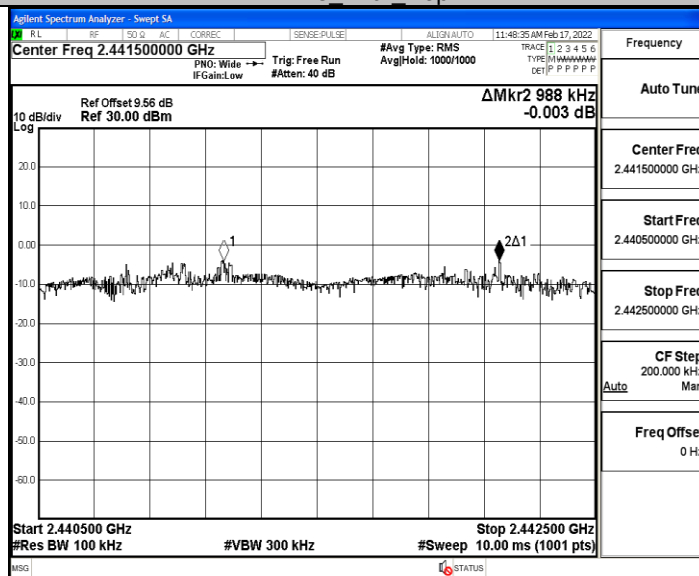
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.968	≥ 0.948	PASS
2DH5	Ant1	Hop	0.988	≥ 0.876	PASS
3DH5	Ant1	Hop	0.992	≥ 0.882	PASS

Test Graph

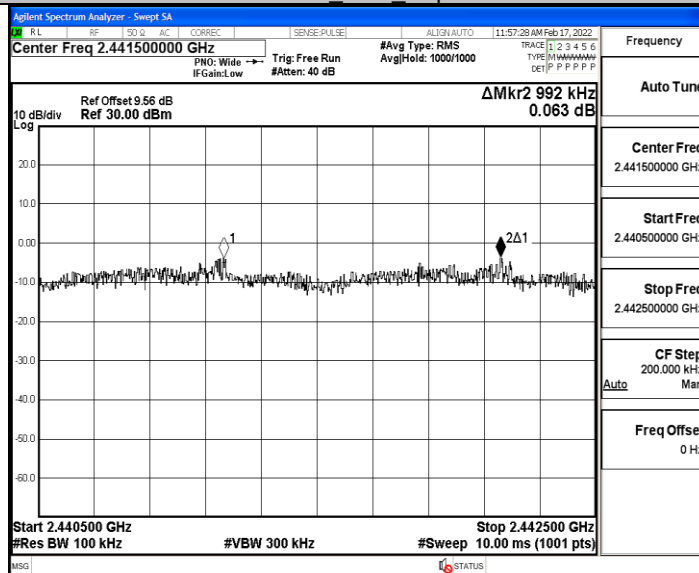
DH5_Ant1_Hop



2DH5_Ant1_Hop



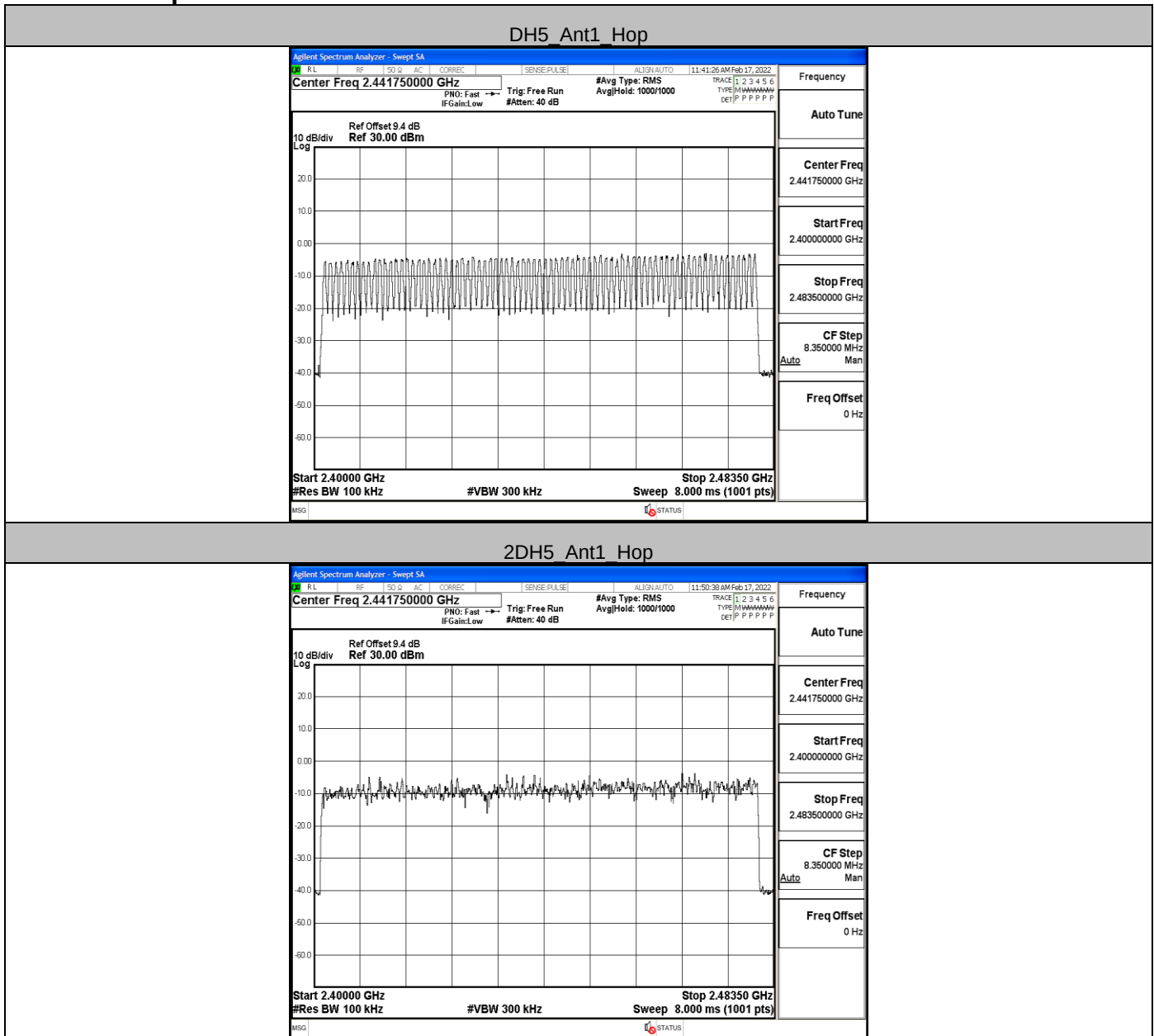
3DH5_Ant1_Hop

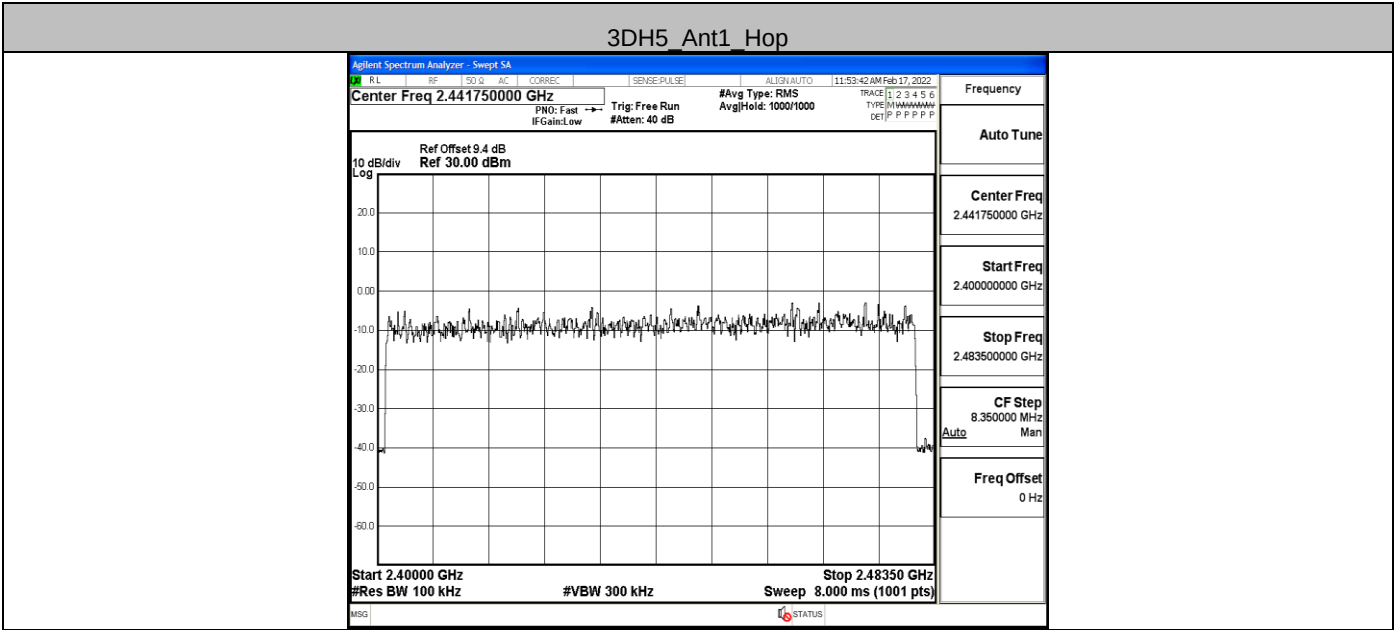


A.4 Hopping Channel Number

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

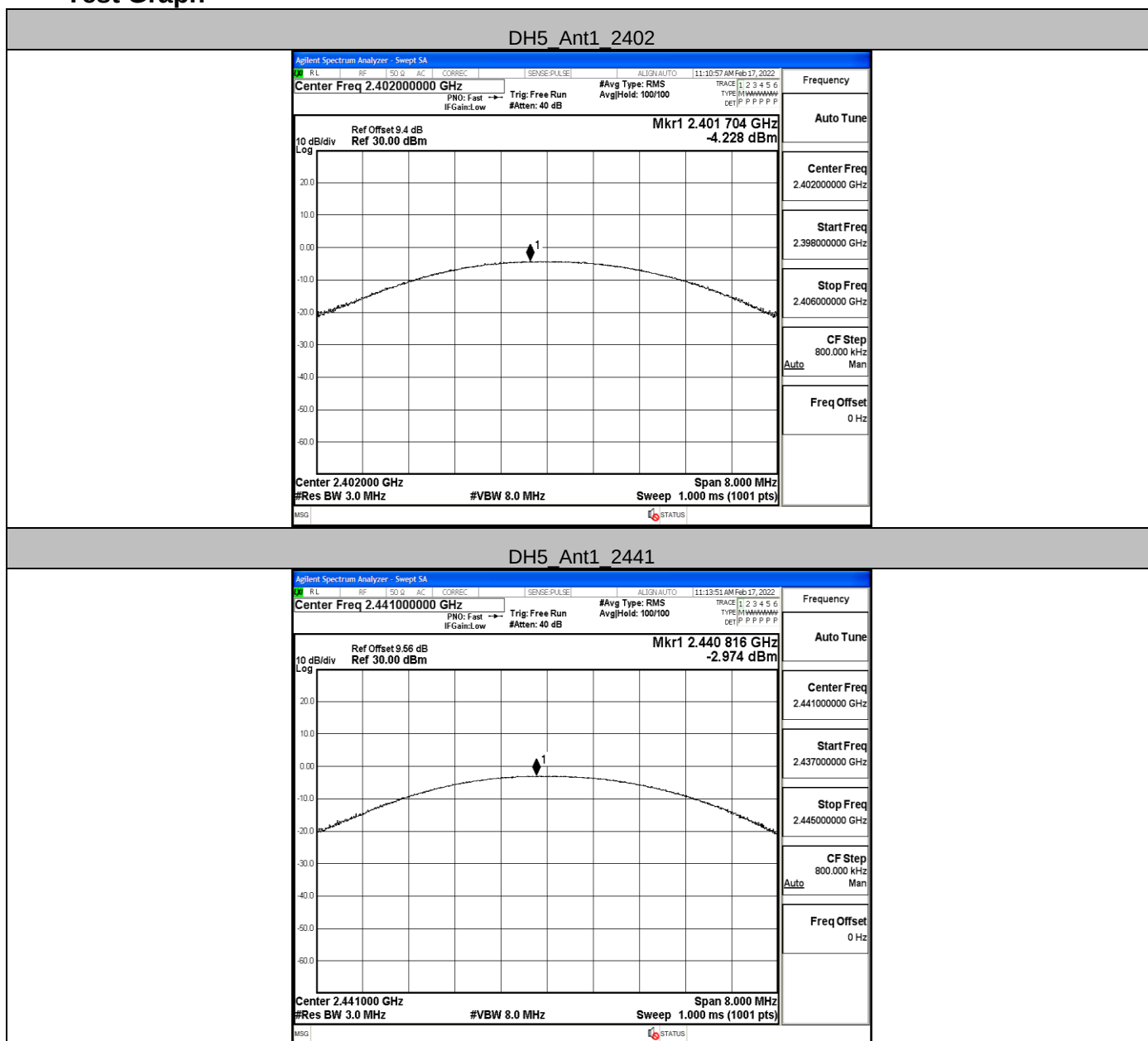




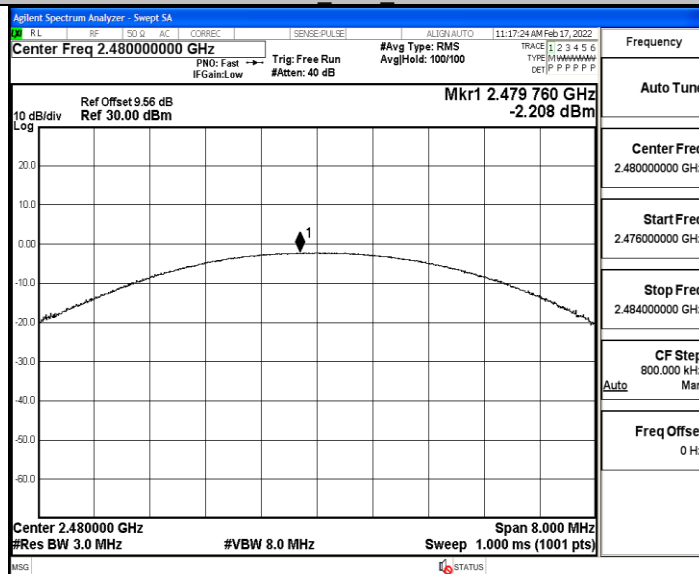
A.5 Conducted Peak Output Power

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

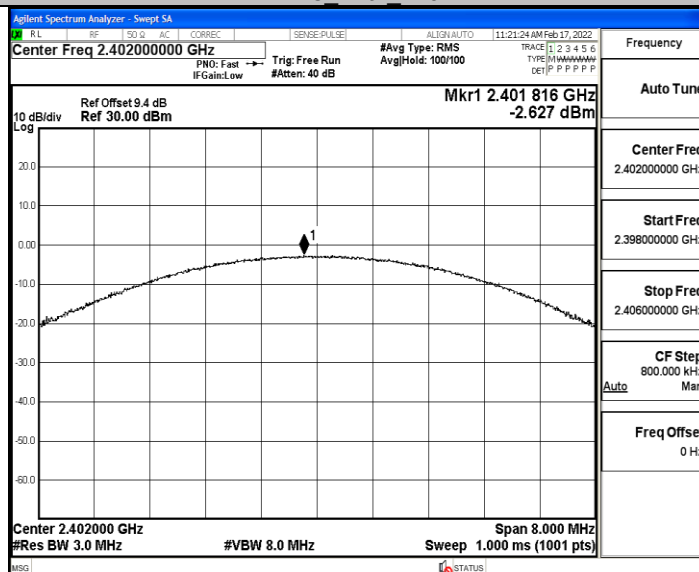
Test Graph



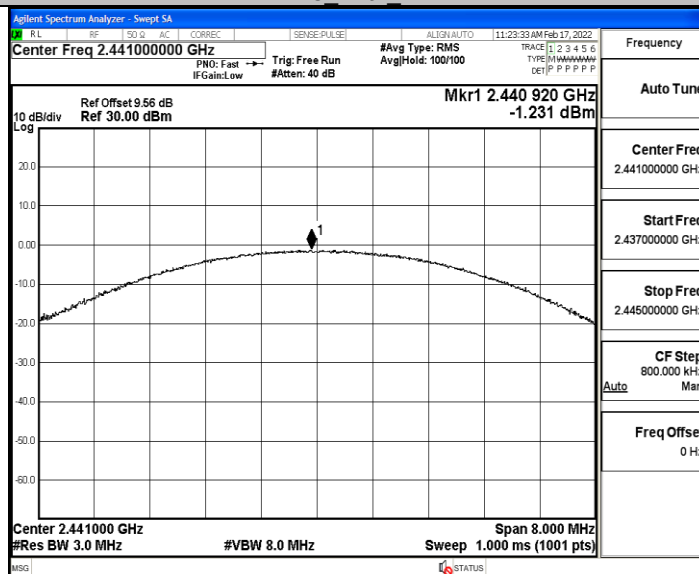
DH5 Ant1_2480



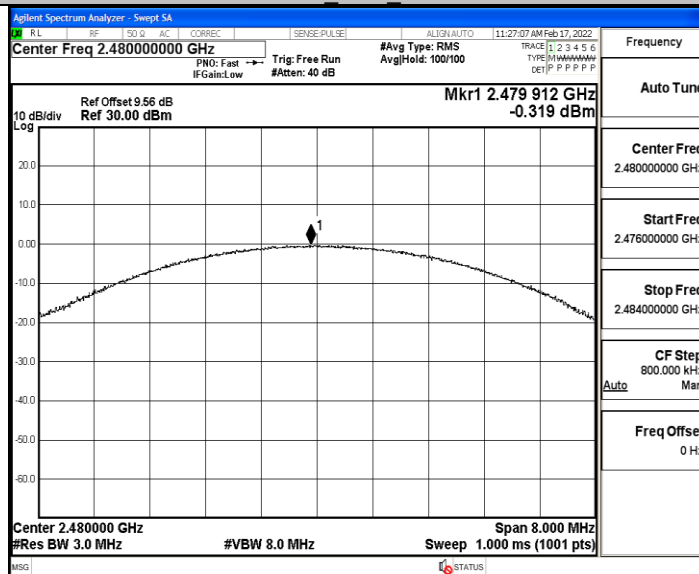
2DH5 Ant1_2402



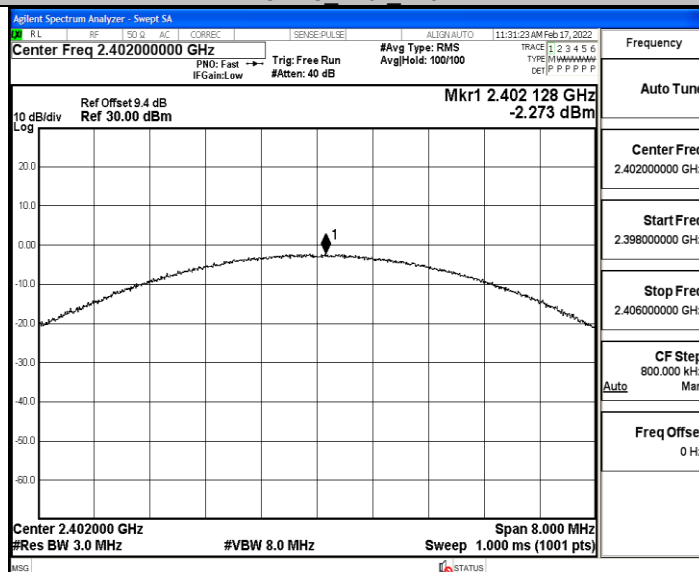
2DH5 Ant1_2441



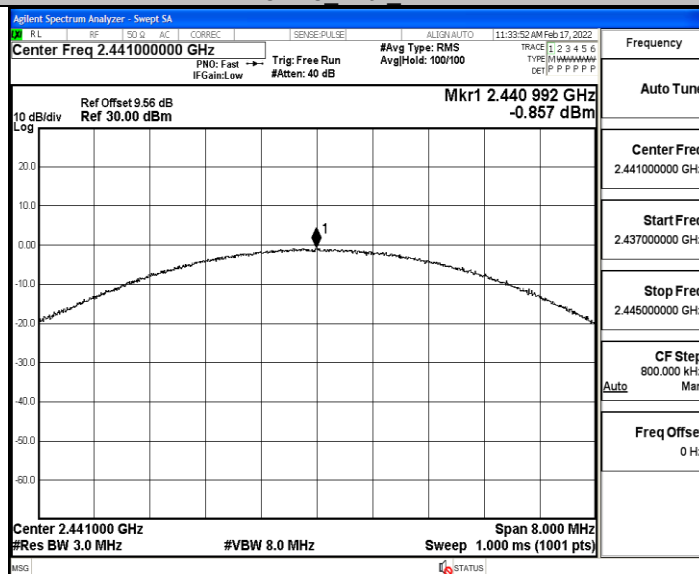
2DH5 Ant1 2480

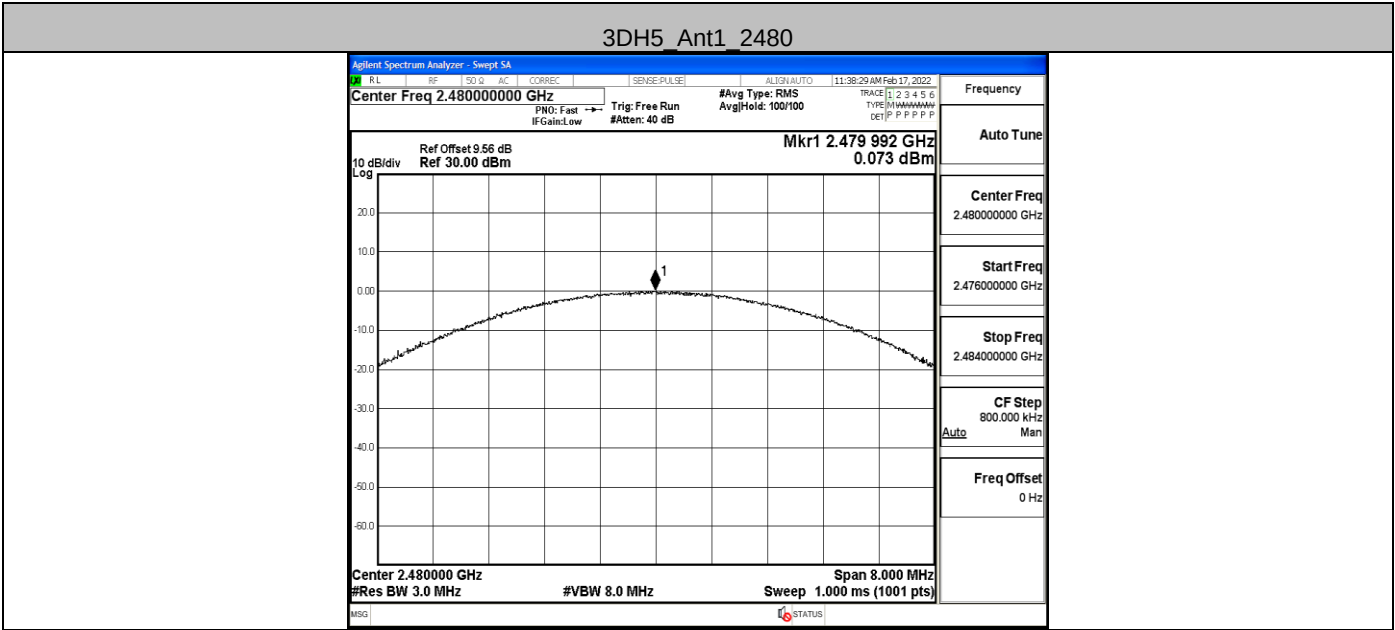


3DH5 Ant1 2402



3DH5 Ant1 2441



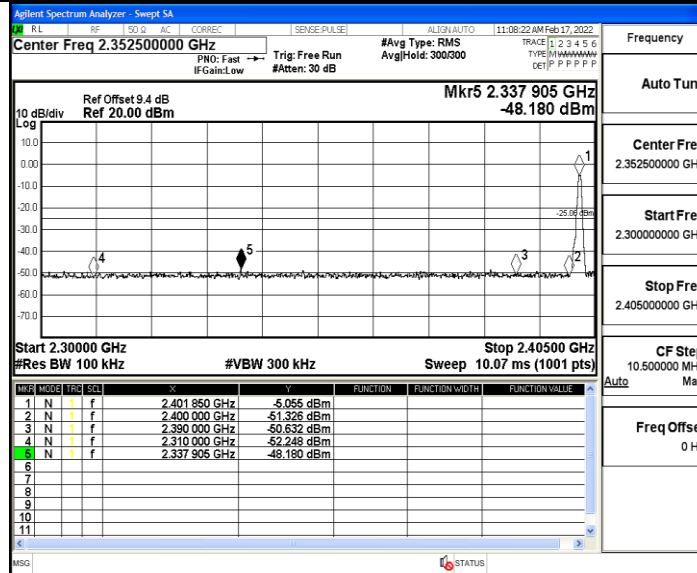


A.6 Band-edge for RF Conducted Emissions

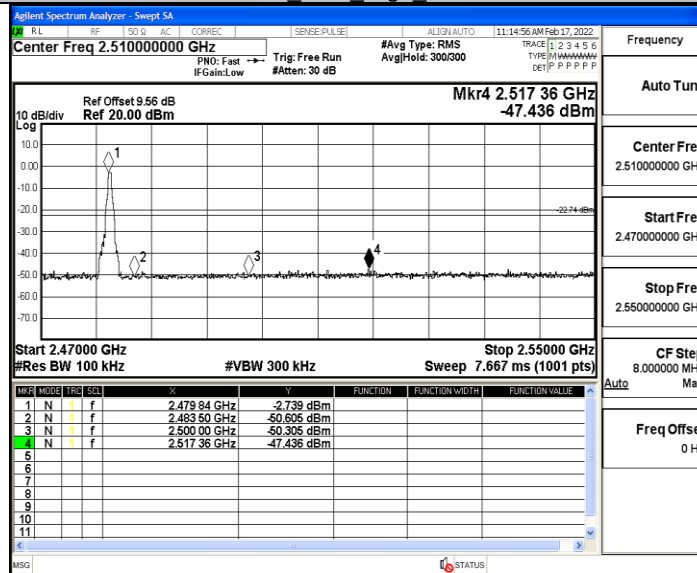
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.06	-48.18	≤ -25.06	PASS
		High	2480	-2.74	-47.44	≤ -22.74	PASS
		Low	Hop_2402	-5.76	-48.54	≤ -25.76	PASS
		High	Hop_2480	-3.08	-47.06	≤ -23.08	PASS
2DH5	Ant1	Low	2402	-5.66	-48.93	≤ -25.66	PASS
		High	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

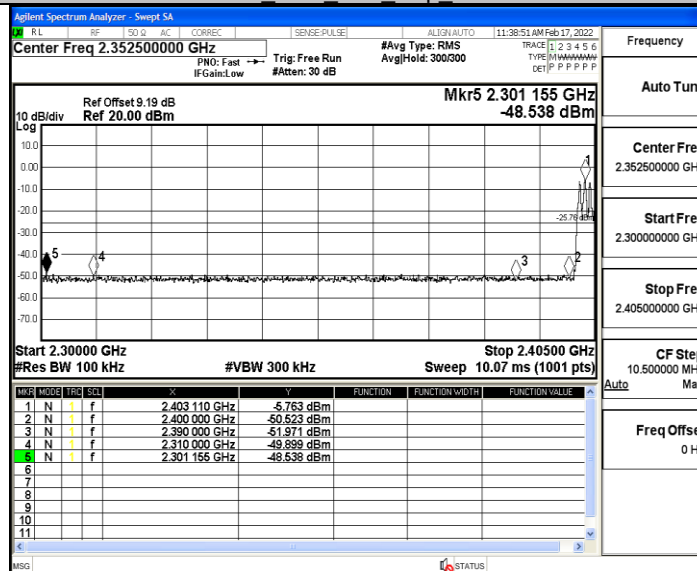
DH5_Ant1_Low_2402



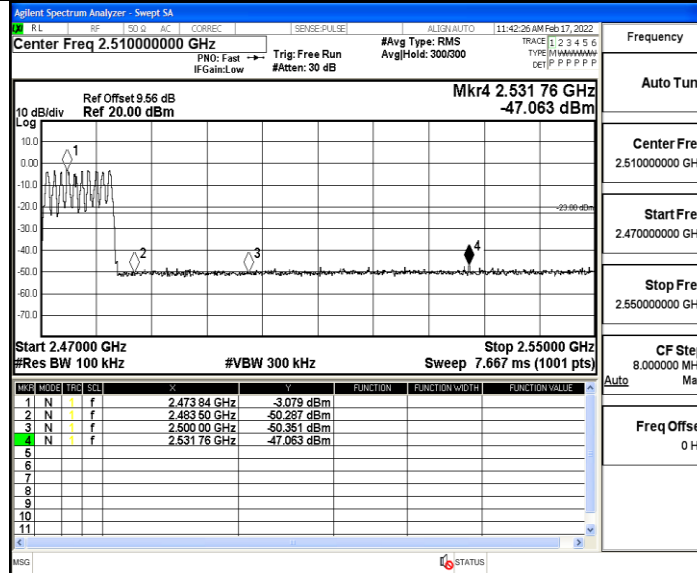
DH5_Ant1_High_2480



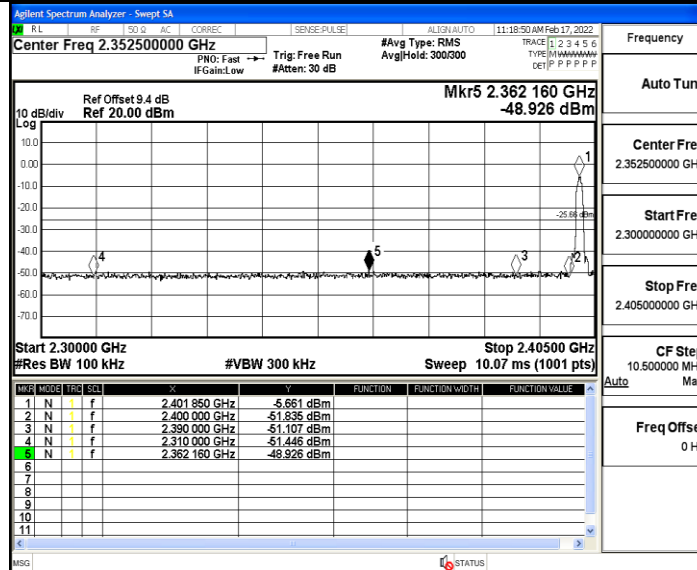
DH5_Ant1_Low_Hop_2402



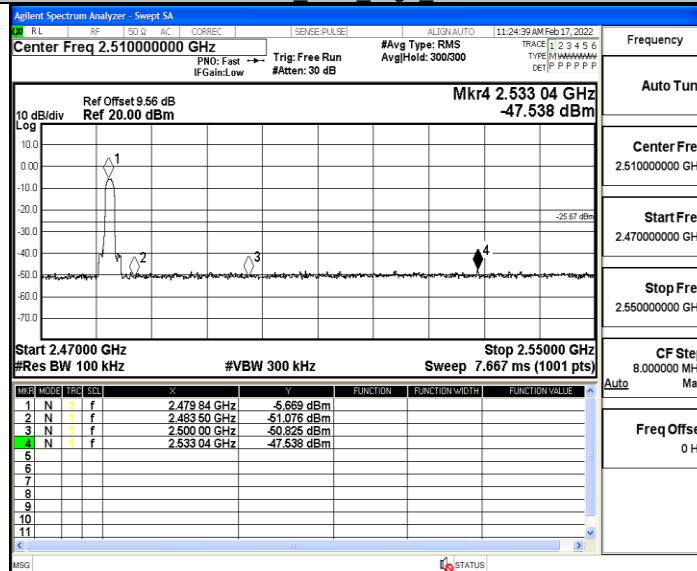
DH5 Ant1 High Hop 2480



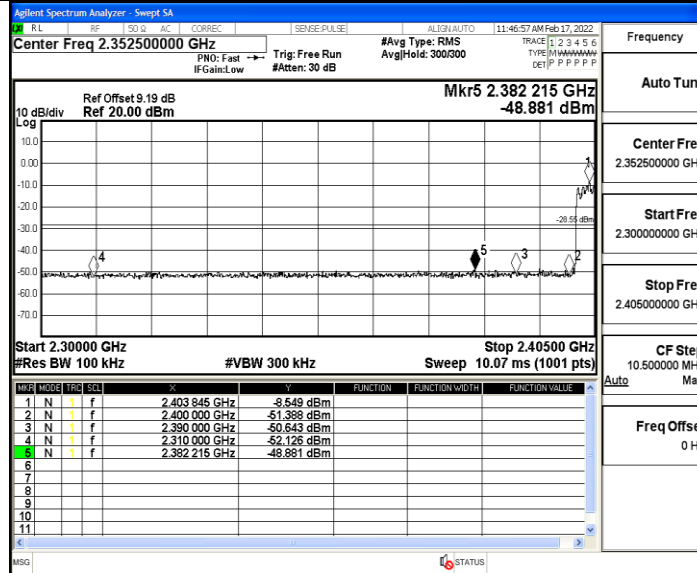
2DH5 Ant1 Low 2402



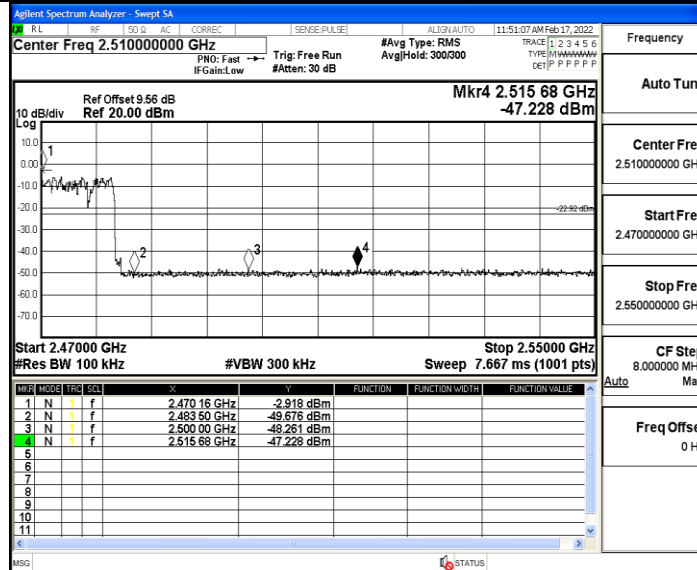
2DH5 Ant1 High 2480



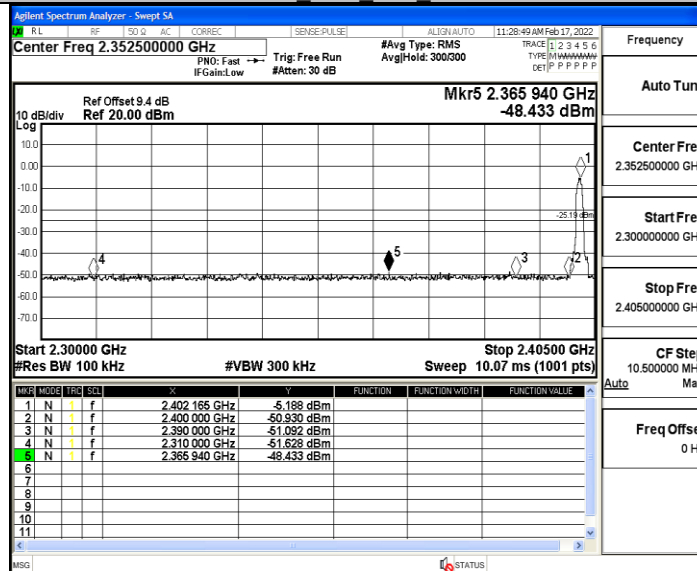
2DH5 Ant1 Low Hop 2402



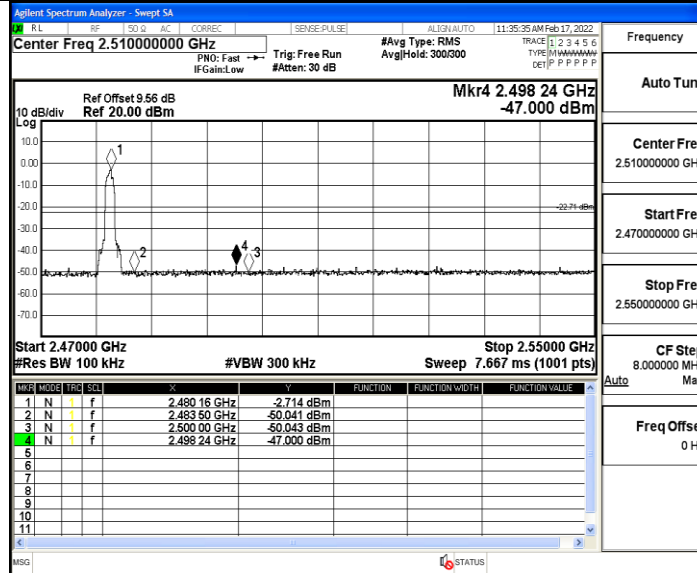
2DH5 Ant1 High Hop 2480



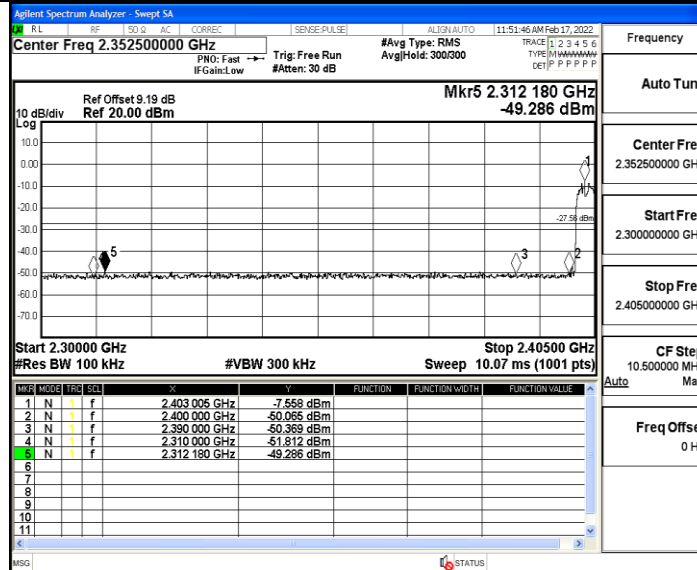
3DH5 Ant1 Low 2402



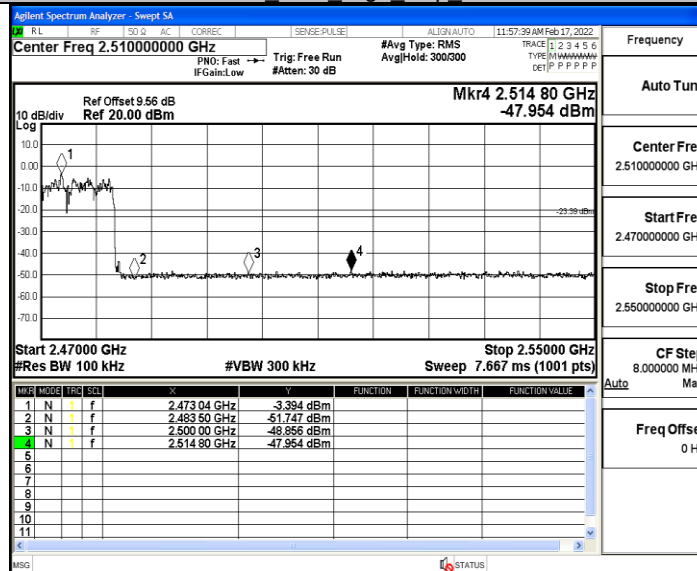
3DH5 Ant1_High 2480



3DH5 Ant1_Low Hop 2402



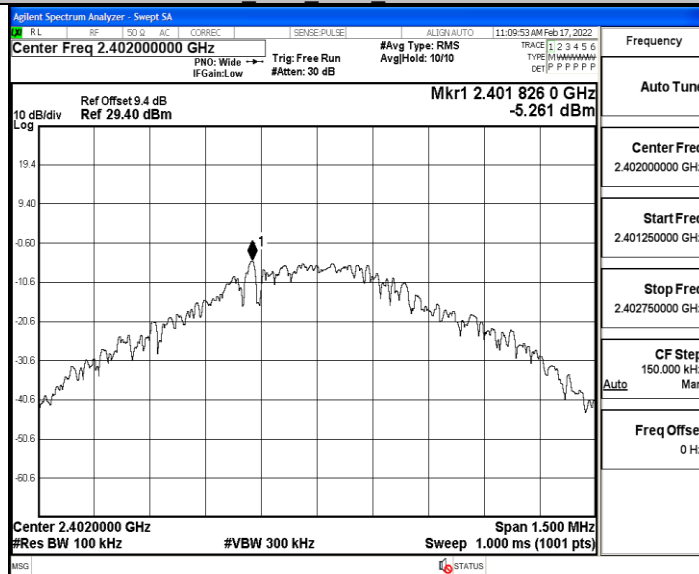
3DH5 Ant1_High Hop 2480



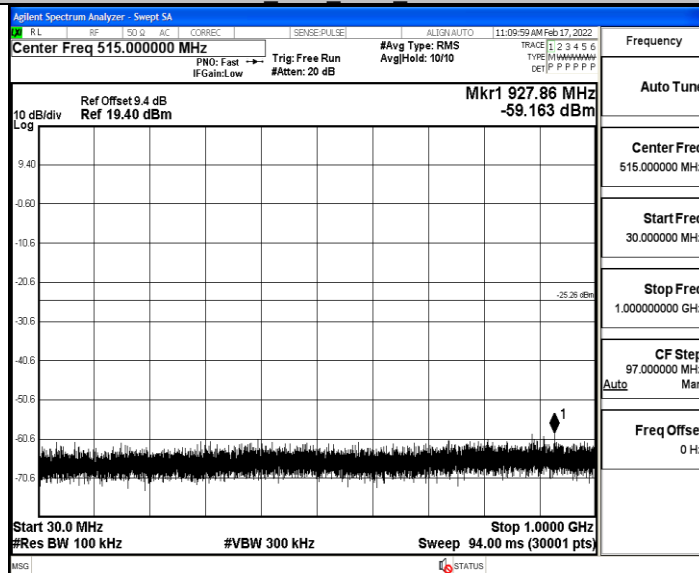
A.7 RF Conducted Spurious Emissions

Test Graph

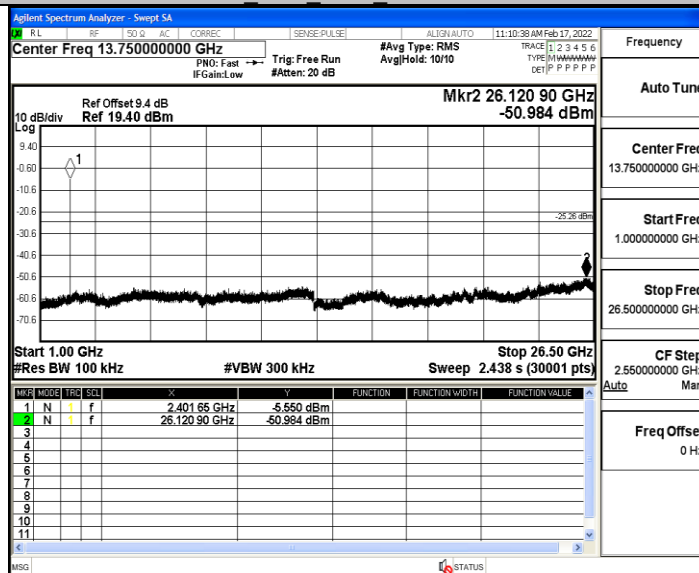
DH5_Ant1_2402_0-Reference



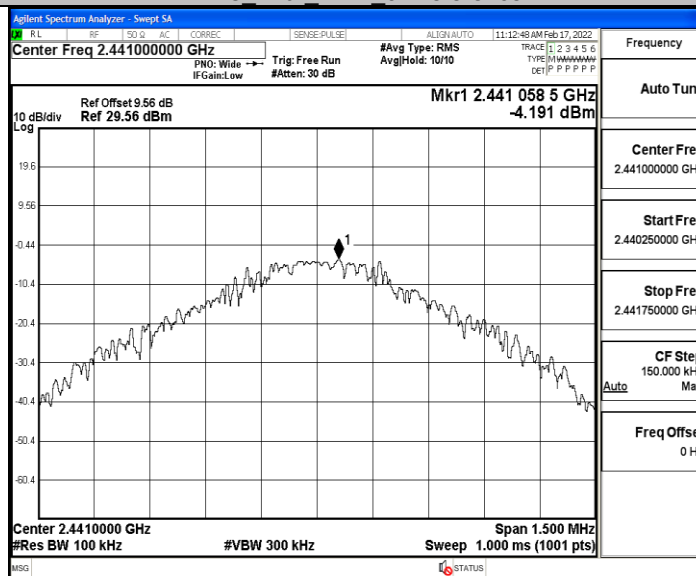
DH5_Ant1_2402_30~1000



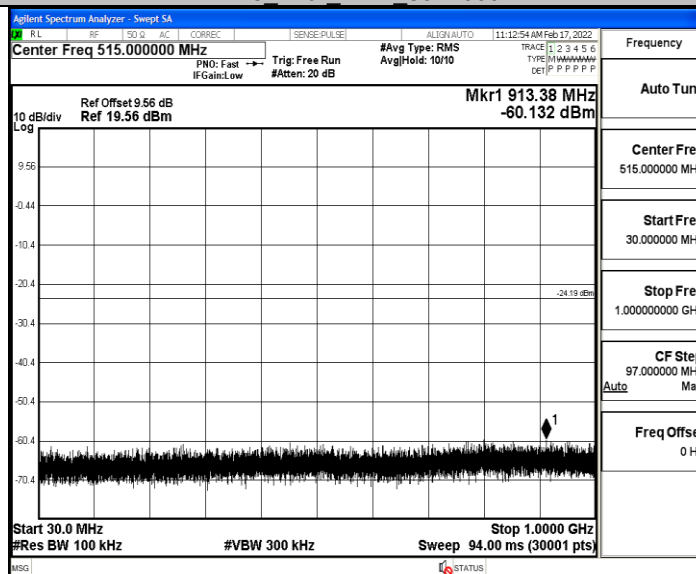
DH5_Ant1_2402_1000~26500



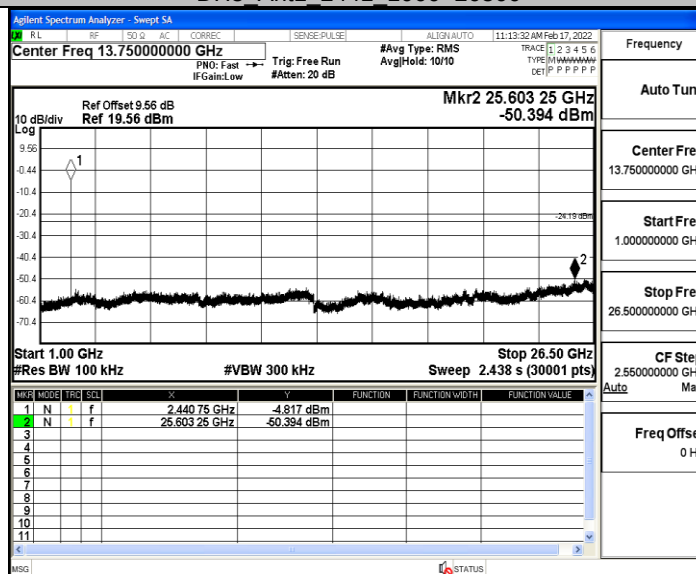
DH5_Ant1_2441_0-Reference



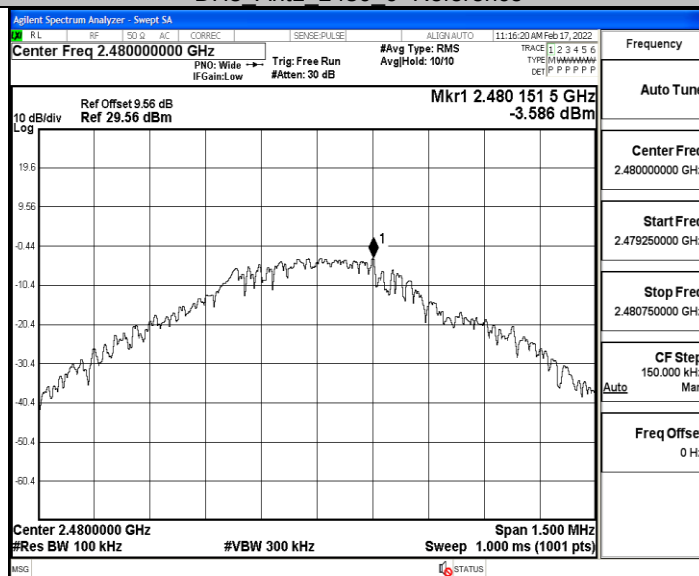
DH5_Ant1_2441_30~1000



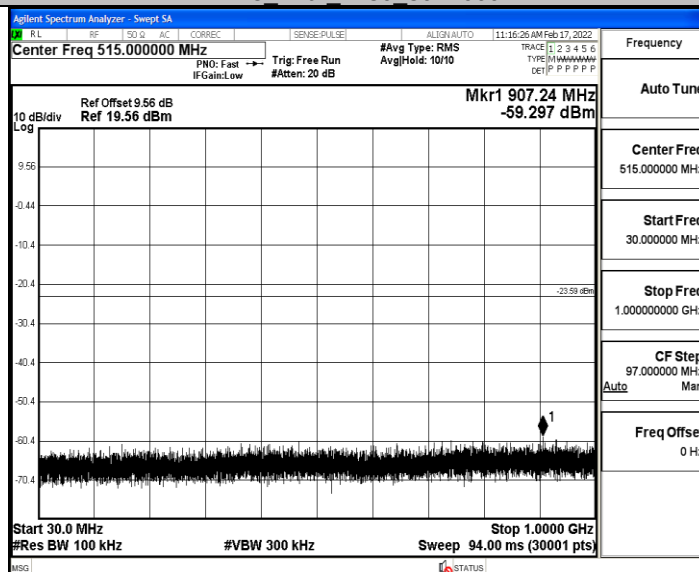
DH5_Ant1_2441_1000~26500



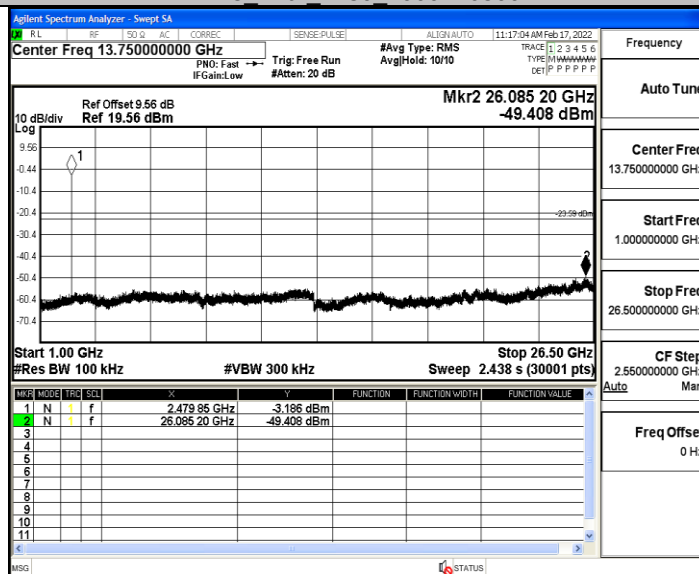
DH5_Ant1_2480_0-Reference



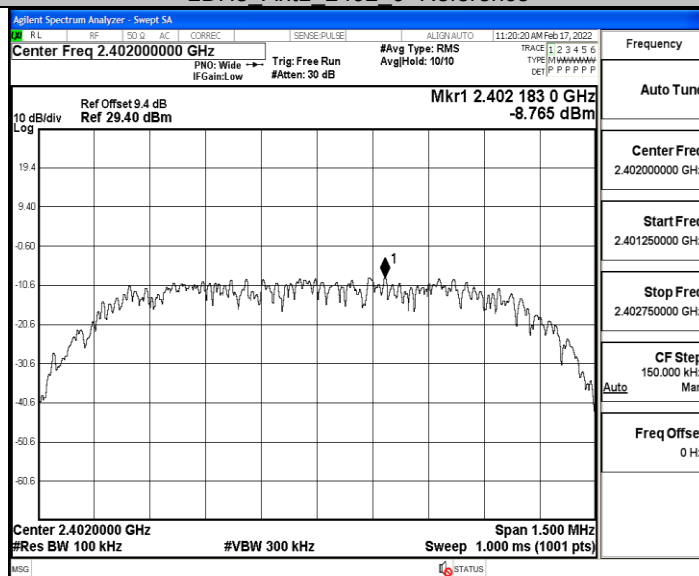
DH5_Ant1_2480_30~1000



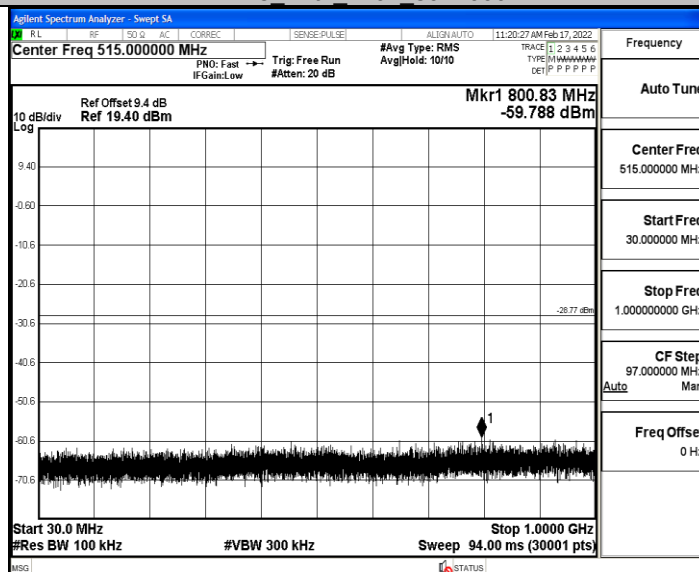
DH5_Ant1_2480_1000~26500



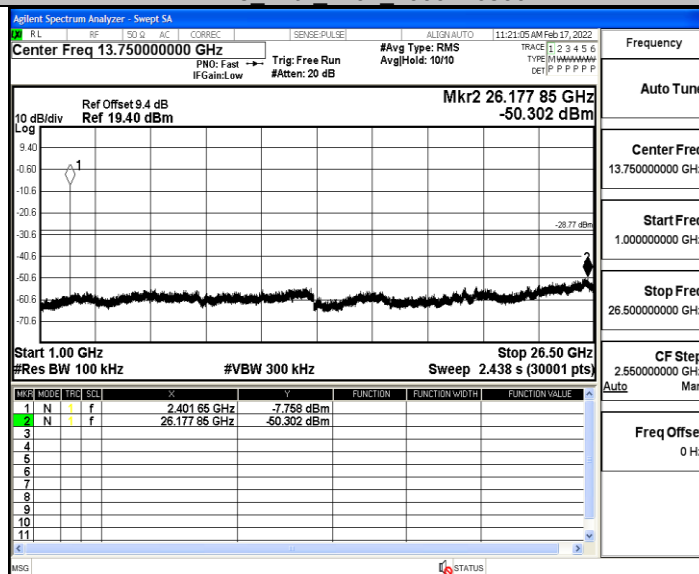
2DH5_Ant1_2402_0~Reference



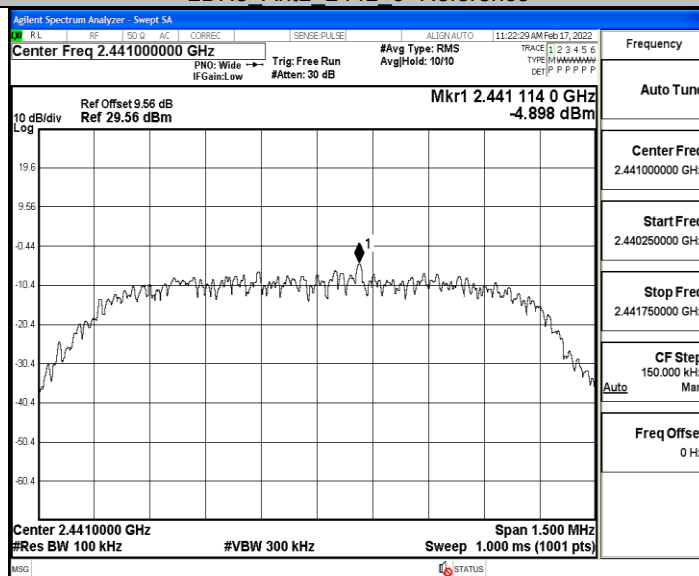
2DH5_Ant1_2402_30~1000



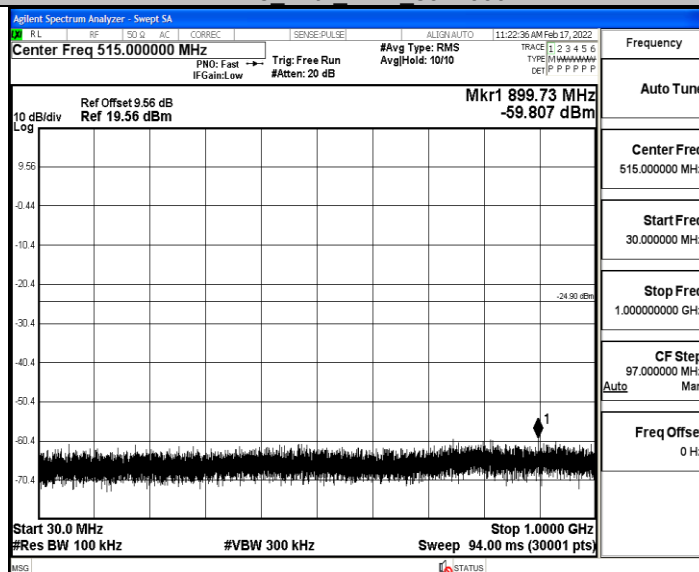
2DH5_Ant1_2402_1000~26500



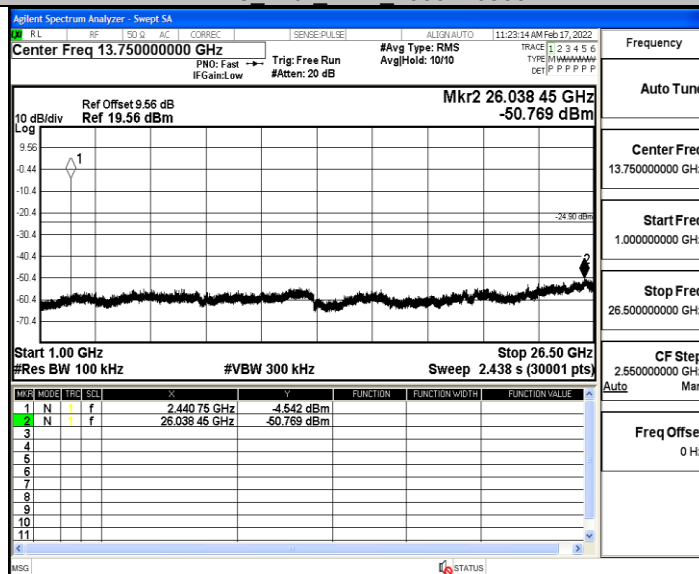
2DH5_Ant1_2441_0~Reference



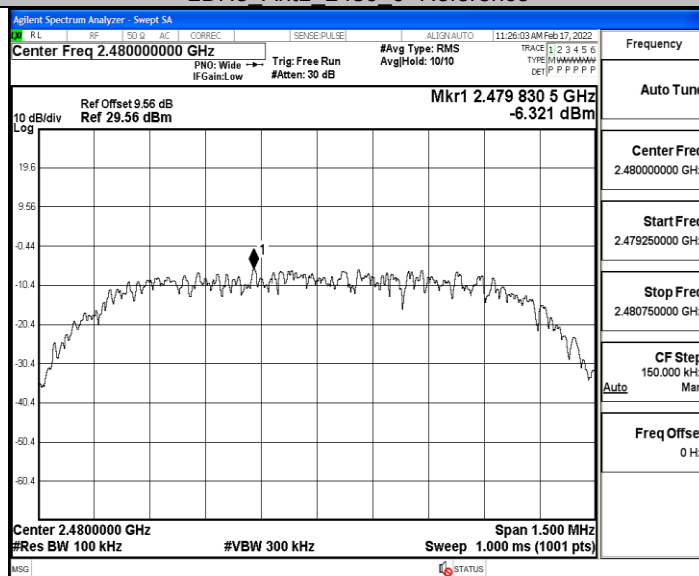
2DH5_Ant1_2441_30~1000



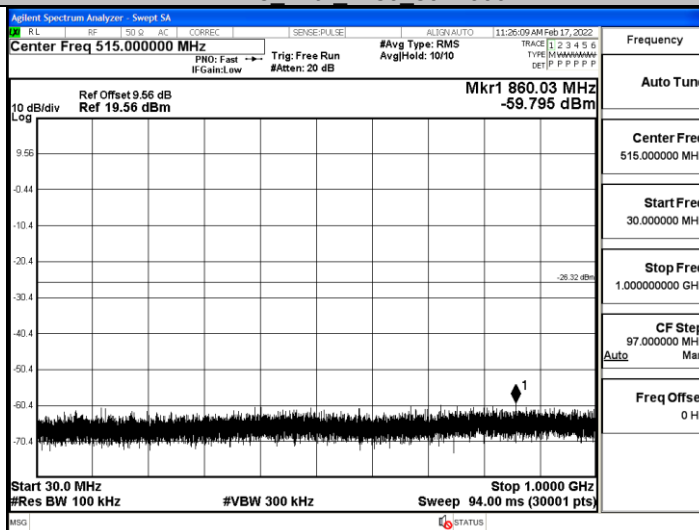
2DH5_Ant1_2441_1000~26500



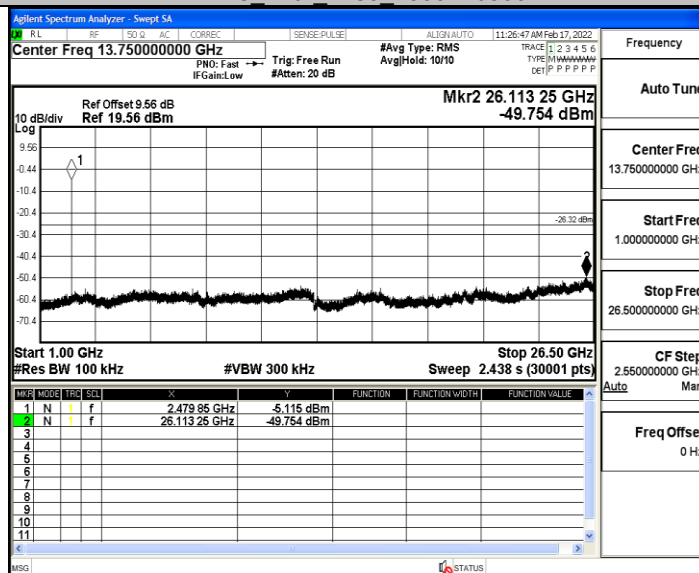
2DH5 Ant1 2480 0~Reference



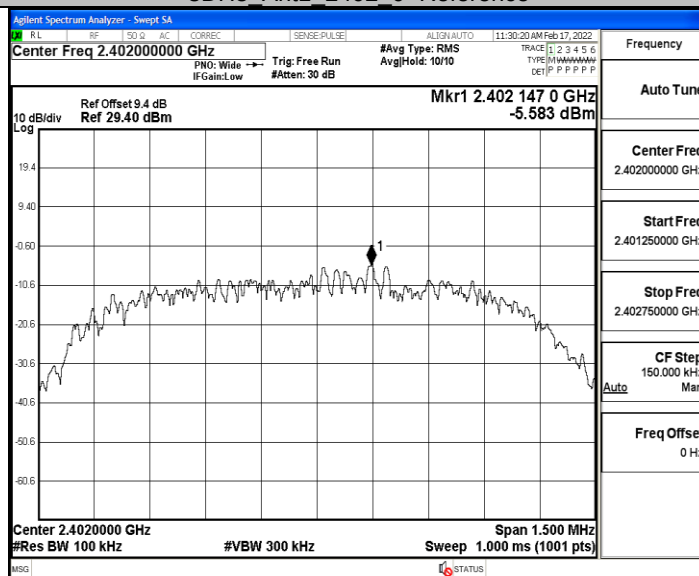
2DH5 Ant1 2480 30~1000



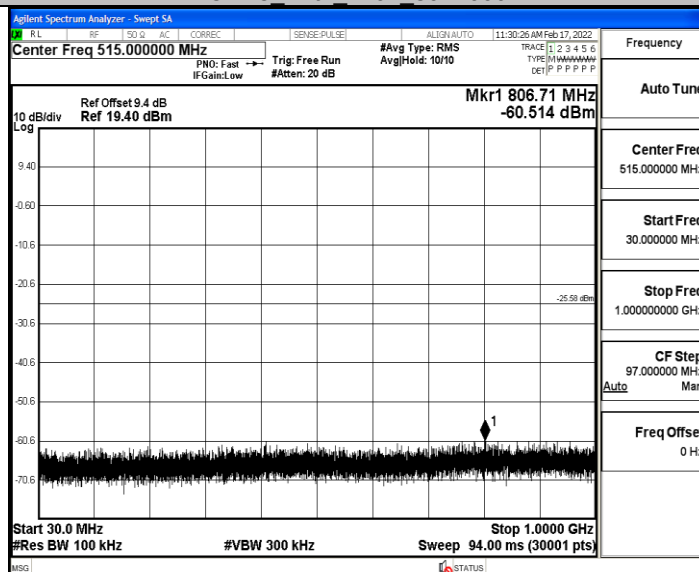
2DH5 Ant1 2480 1000~26500



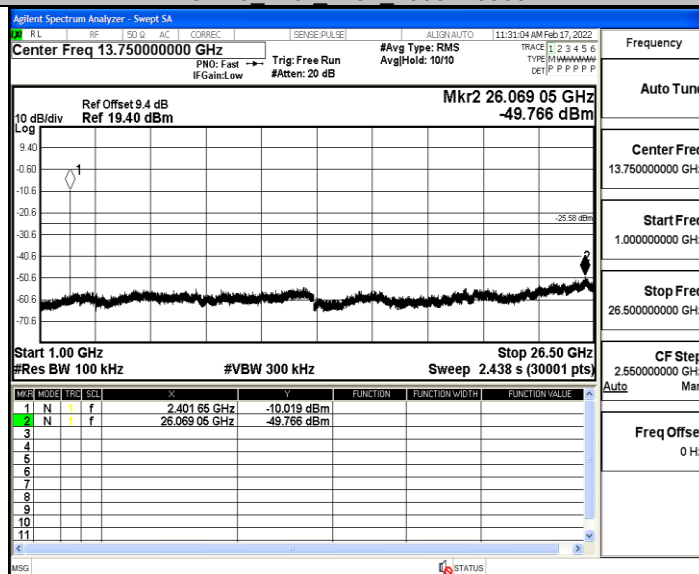
3DH5_Ant1_2402_0~Reference



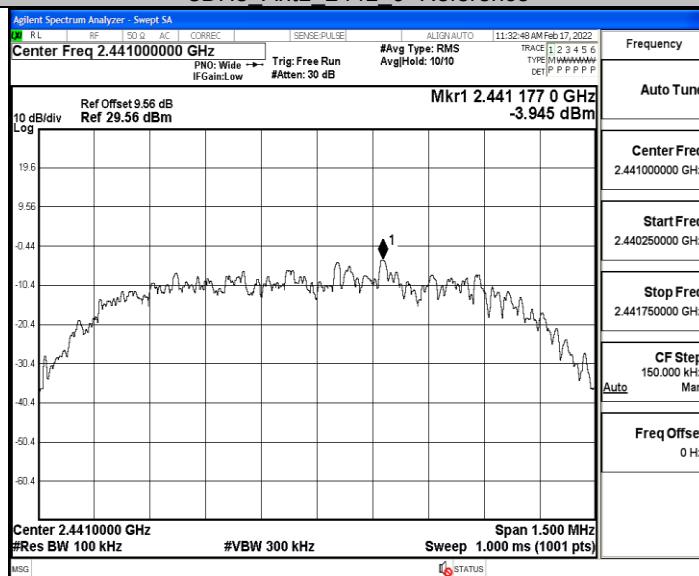
3DH5_Ant1_2402_30~1000



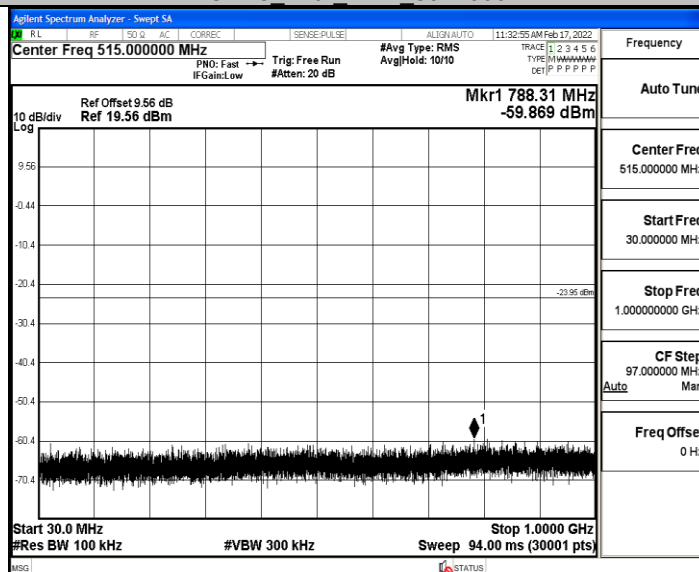
3DH5_Ant1_2402_1000~26500



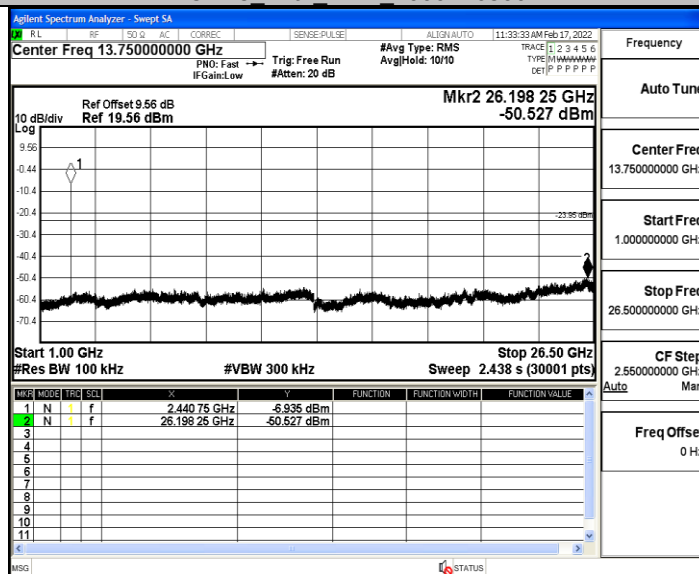
3DH5_Ant1_2441_0~Reference



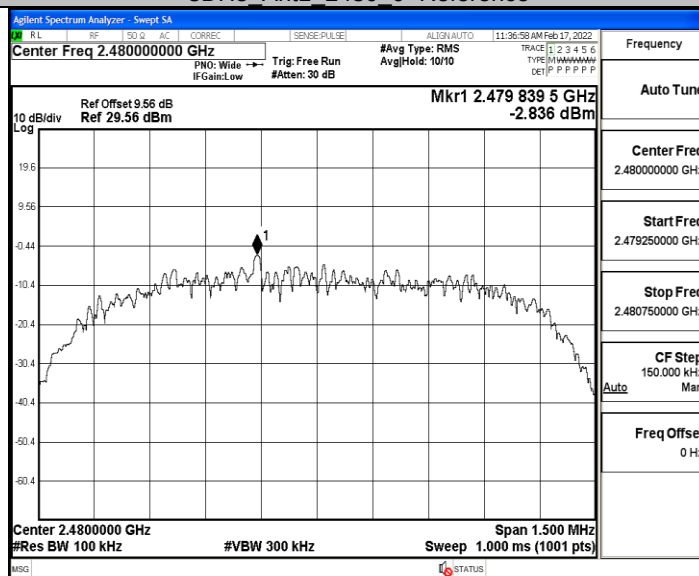
3DH5_Ant1_2441_30~1000



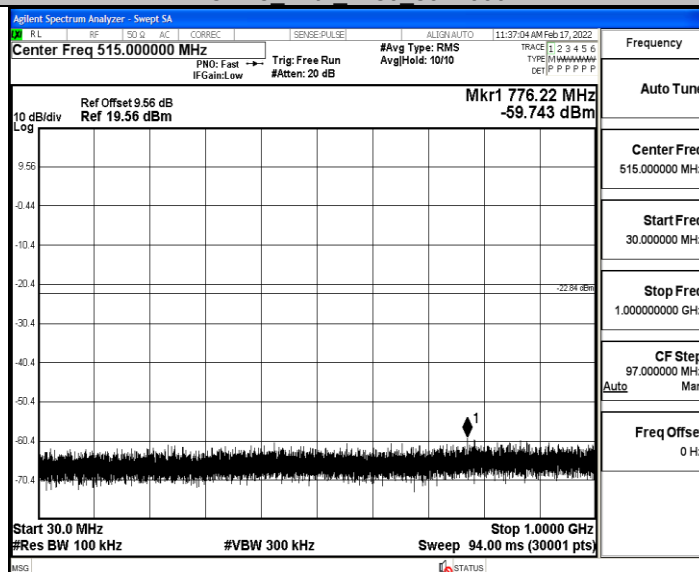
3DH5_Ant1_2441_1000~26500



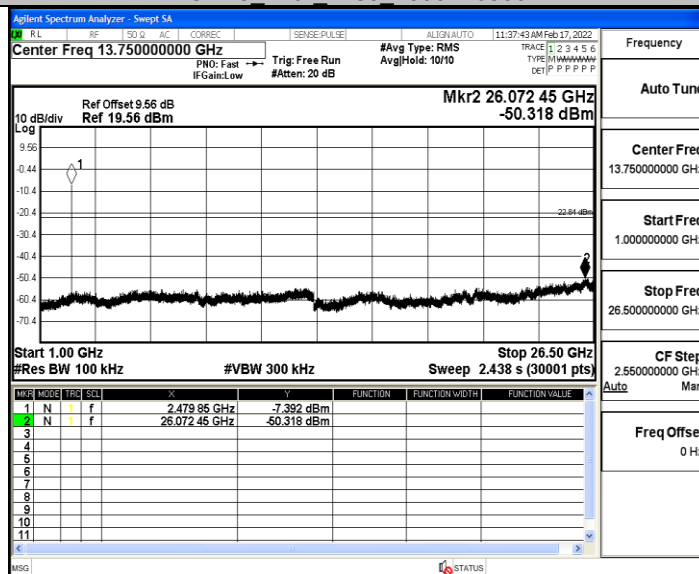
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



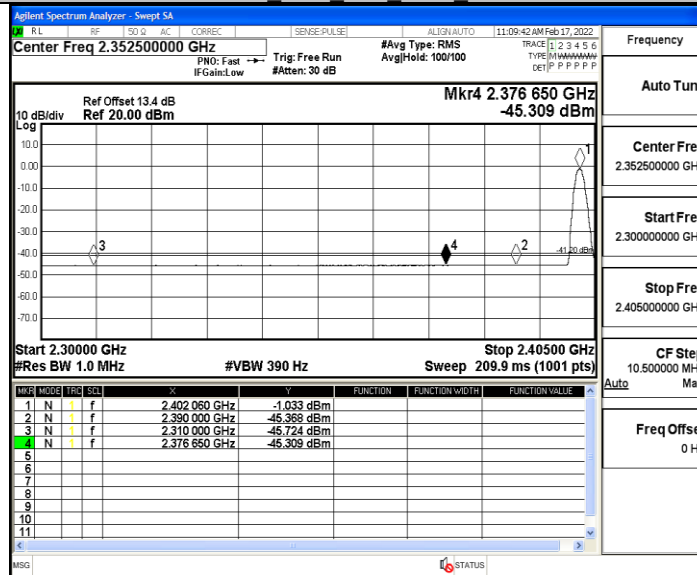
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Ver
DH5	Ant1	Low	2402	AV	2310.000	-45.72	≤-41.20	P ₁
				AV	2376.650	-45.31	≤-41.20	P ₁
				AV	2390.000	-45.37	≤-41.20	P ₁
				Peak	2310.000	-38.11	≤-21.20	P ₁
				Peak	2359.640	-34.72	≤-21.20	P ₁
				Peak	2390.000	-38.84	≤-21.20	P ₁
		High	2480	AV	2483.500	-44.87	≤-41.20	P ₁
				AV	2492.800	-44.68	≤-41.20	P ₁
				AV	2500.000	-44.75	≤-41.20	P ₁
				Peak	2483.500	-38.18	≤-21.20	P ₁
				Peak	2494.960	-34.66	≤-21.20	P ₁
				Peak	2500.000	-37.47	≤-21.20	P ₁
2DH5	Ant1	Low	2402	AV	2310.000	-45.53	≤-41.20	P ₁
				AV	2389.250	-45.31	≤-41.20	P ₁
				AV	2390.000	-45.45	≤-41.20	P ₁
				Peak	2310.000	-38.99	≤-21.20	P ₁
				Peak	2317.010	-35.34	≤-21.20	P ₁
				Peak	2390.000	-38.37	≤-21.20	P ₁
		High	2480	AV	2483.500	-44.86	≤-41.20	P ₁
				AV	2499.520	-44.7	≤-41.20	P ₁
				AV	2500.000	-44.71	≤-41.20	P ₁
				Peak	2483.500	-38.44	≤-21.20	P ₁
				Peak	2494.560	-34.85	≤-21.20	P ₁
				Peak	2500.000	-35.39	≤-21.20	P ₁
3DH5	Ant1	Low	2402	AV	2310.000	-45.77	≤-41.20	P ₁
				AV	2387.045	-45.37	≤-41.20	P ₁
				AV	2390.000	-45.47	≤-41.20	P ₁
				Peak	2310.000	-39.2	≤-21.20	P ₁
				Peak	2375.705	-35.05	≤-21.20	P ₁
				Peak	2390.000	-37.32	≤-21.20	P ₁
		High	2480	AV	2483.500	-44.72	≤-41.20	P ₁
				AV	2499.520	-44.63	≤-41.20	P ₁
				AV	2500.000	-44.77	≤-41.20	P ₁
				Peak	2483.500	-38.09	≤-21.20	P ₁
				Peak	2489.840	-35.1	≤-21.20	P ₁
				Peak	2500.000	-38.28	≤-21.20	P ₁

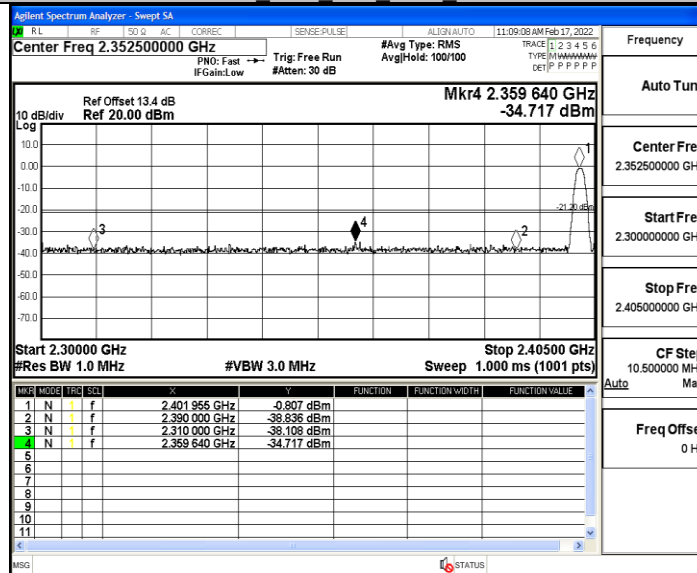
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

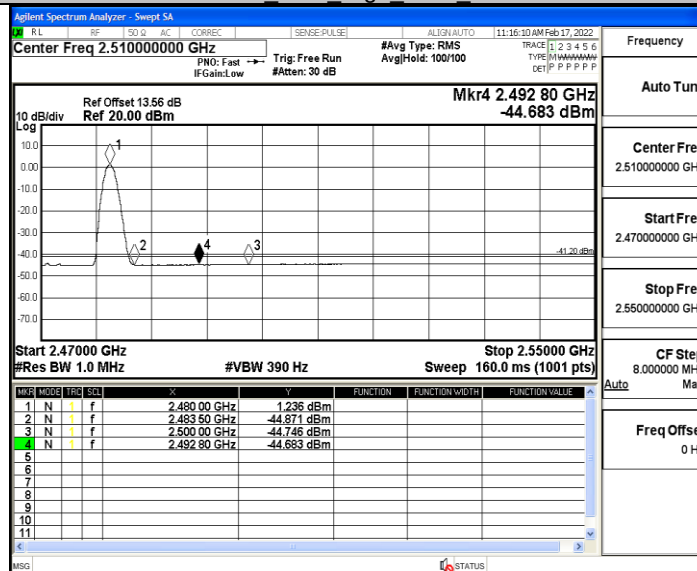
DH5 Ant1 Low 2402 AV



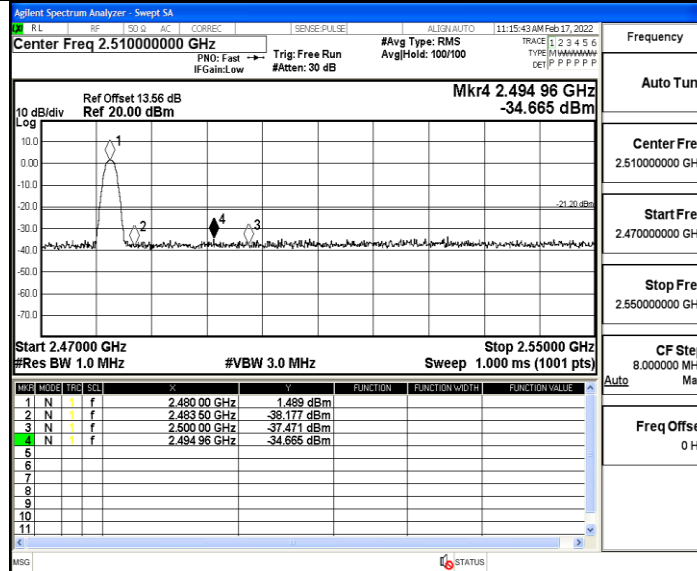
DH5 Ant1 Low 2402 Peak



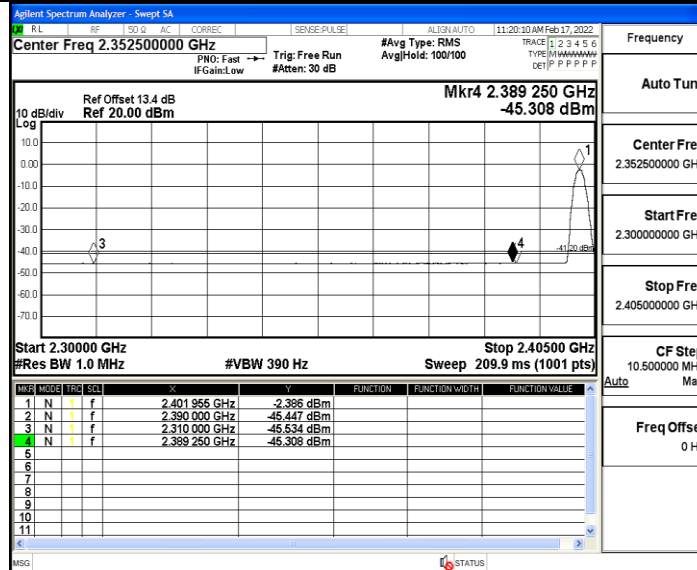
DH5 Ant1 High 2480 AV



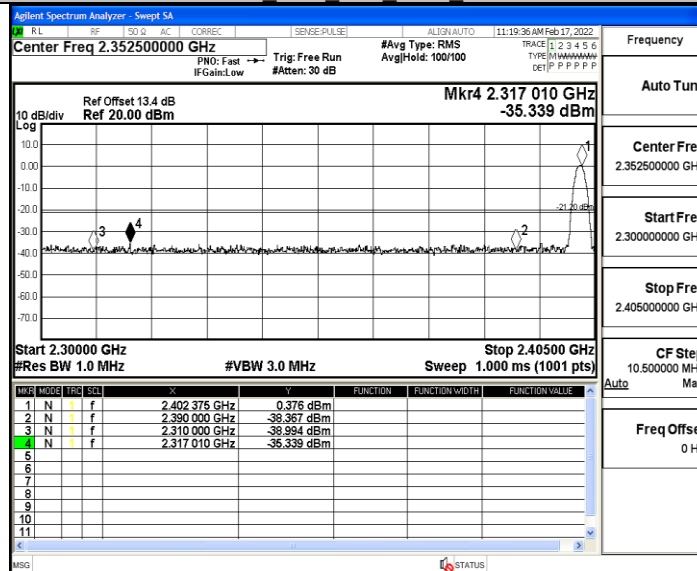
DH5 Ant1 High 2480 Peak



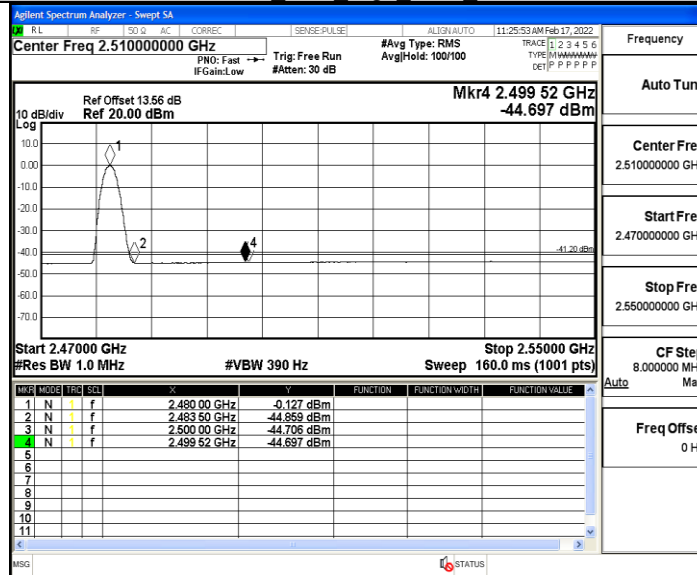
2DH5 Ant1 Low 2402 AV



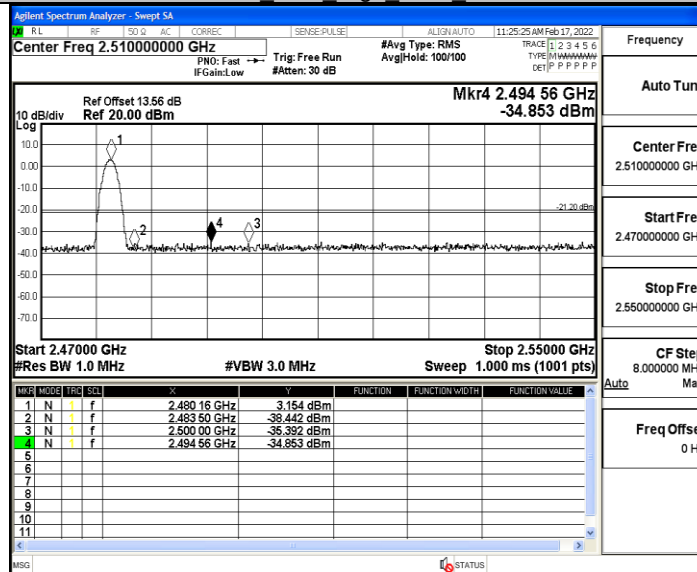
2DH5 Ant1 Low 2402 Peak



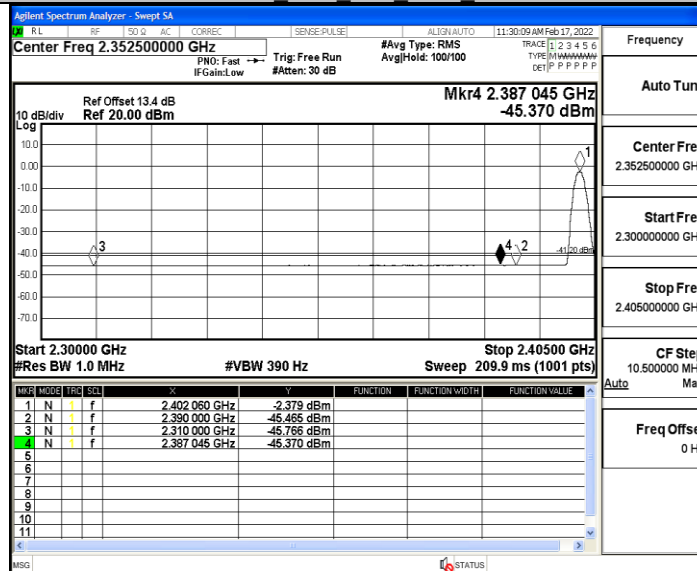
2DH5 Ant1_High_2480_AV



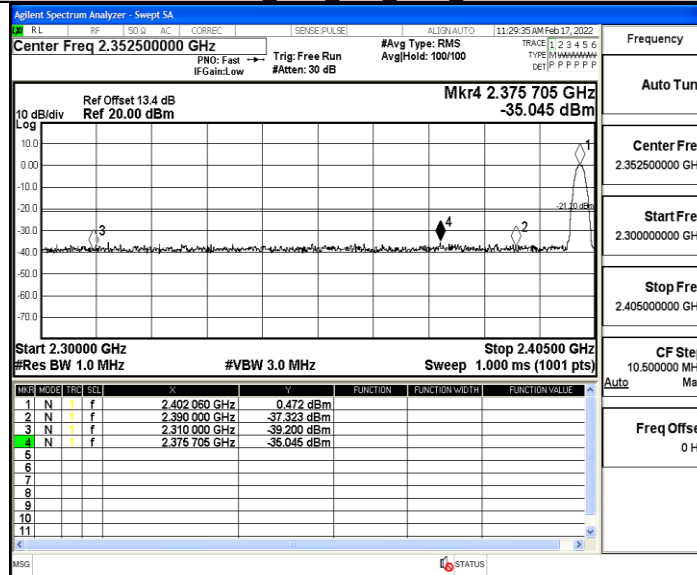
2DH5 Ant1_High_2480_Peak



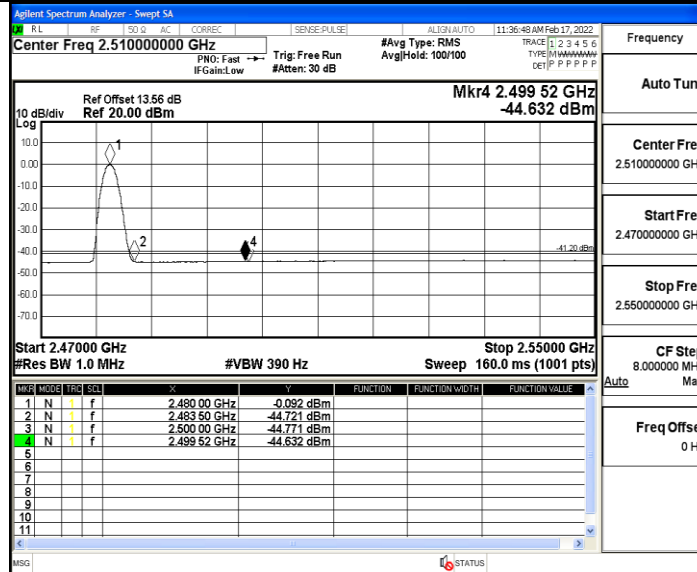
3DH5 Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

