

Appendix A

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

Product Name: Active noise cancelling Bluetooth headphones

Trade Mark: PAWNIX

Test Model: PAWNIX.001

FCC ID: 2AWO4-PAWNIX001

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	1.119	2401.466	2402.585	---	PASS
		2441	1.077	2440.481	2441.558	---	PASS
		2480	1.086	2479.496	2480.582	---	PASS
2DH5	Ant1	2402	1.413	2401.313	2402.726	---	PASS
		2441	1.407	2440.316	2441.723	---	PASS
		2480	1.362	2479.343	2480.705	---	PASS
3DH5	Ant1	2402	1.371	2401.343	2402.714	---	PASS
		2441	1.356	2440.340	2441.696	---	PASS
		2480	1.374	2479.328	2480.702	---	PASS

DH5_Ant1_2480



2DH5_Ant1_2402



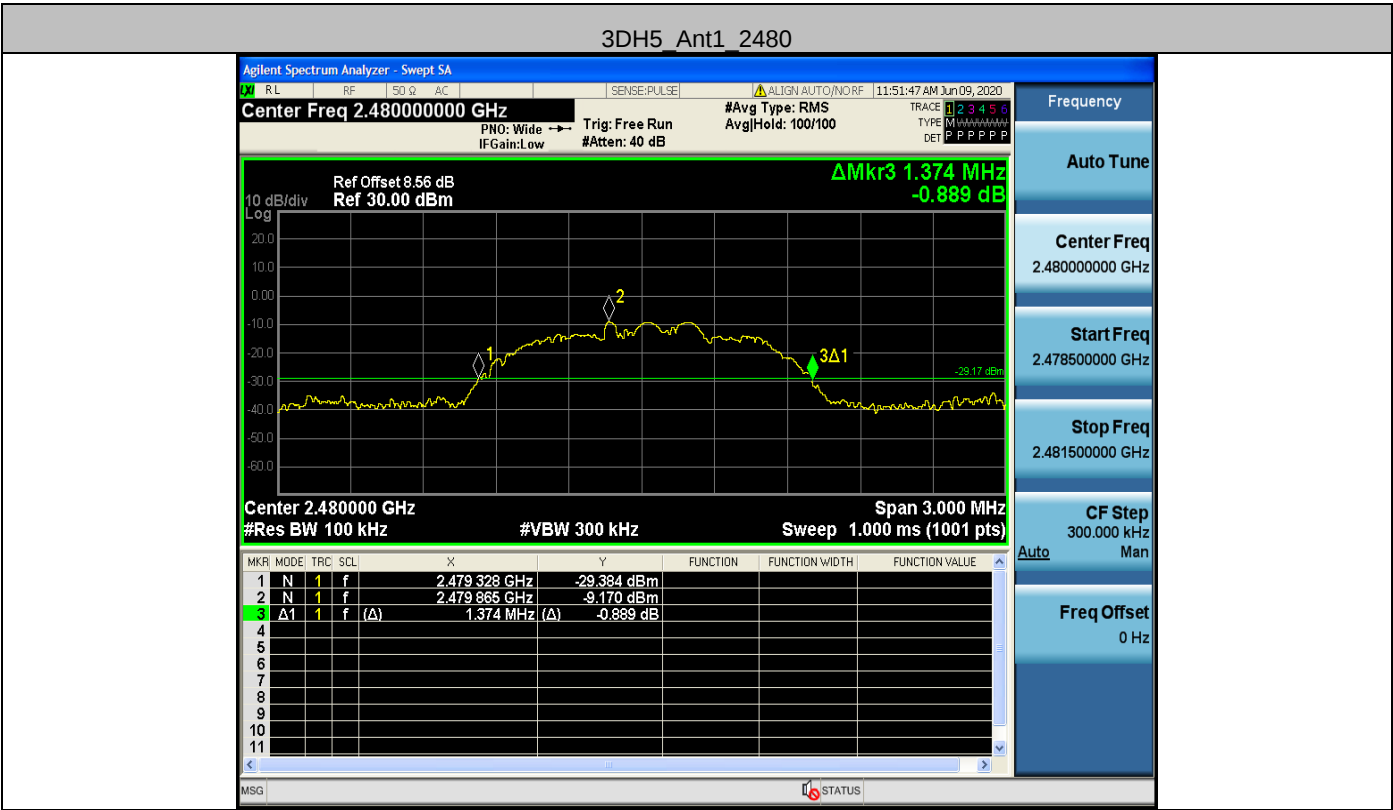


3DH5_Ant1_2402



3DH5_Ant1_2441

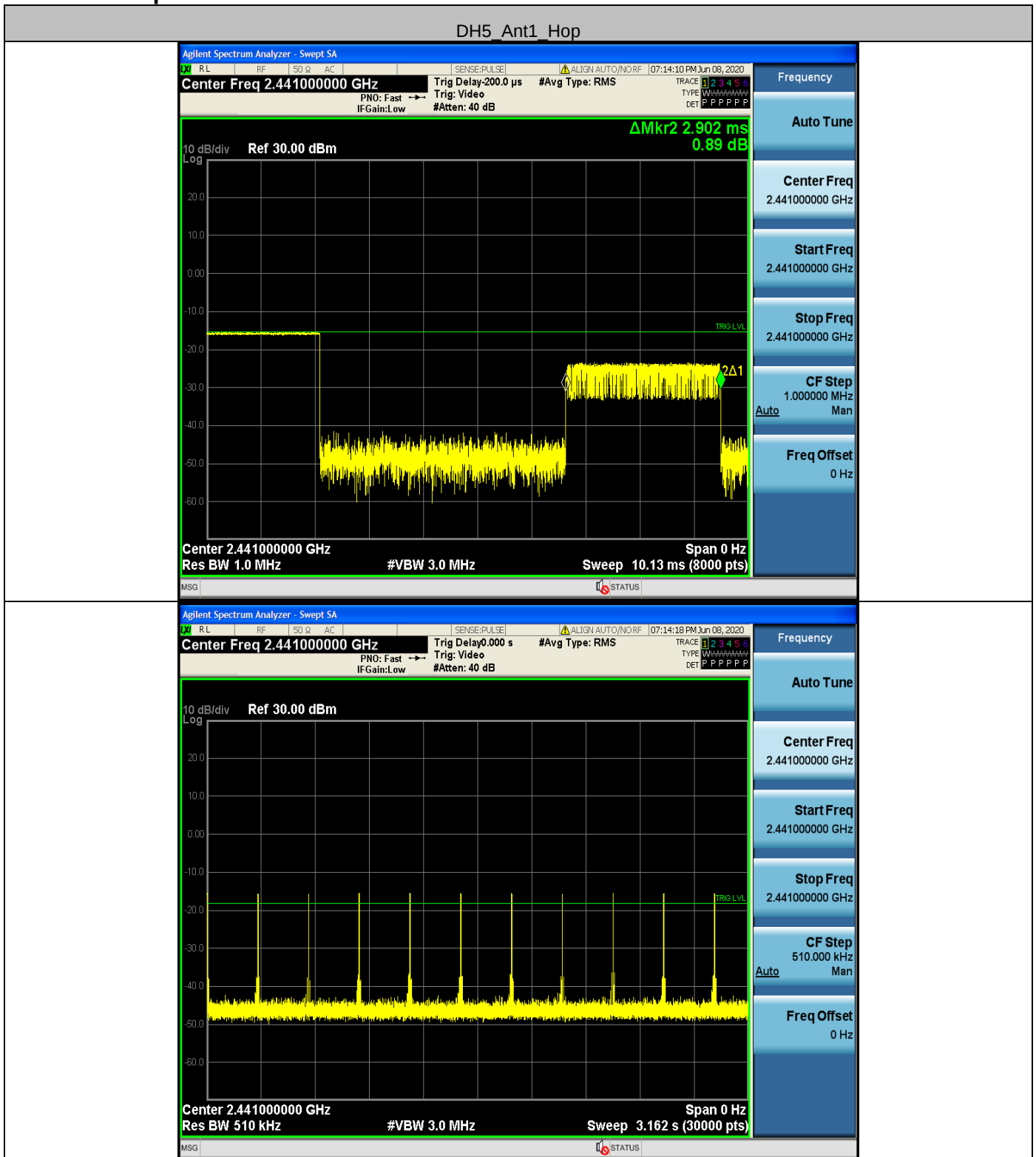




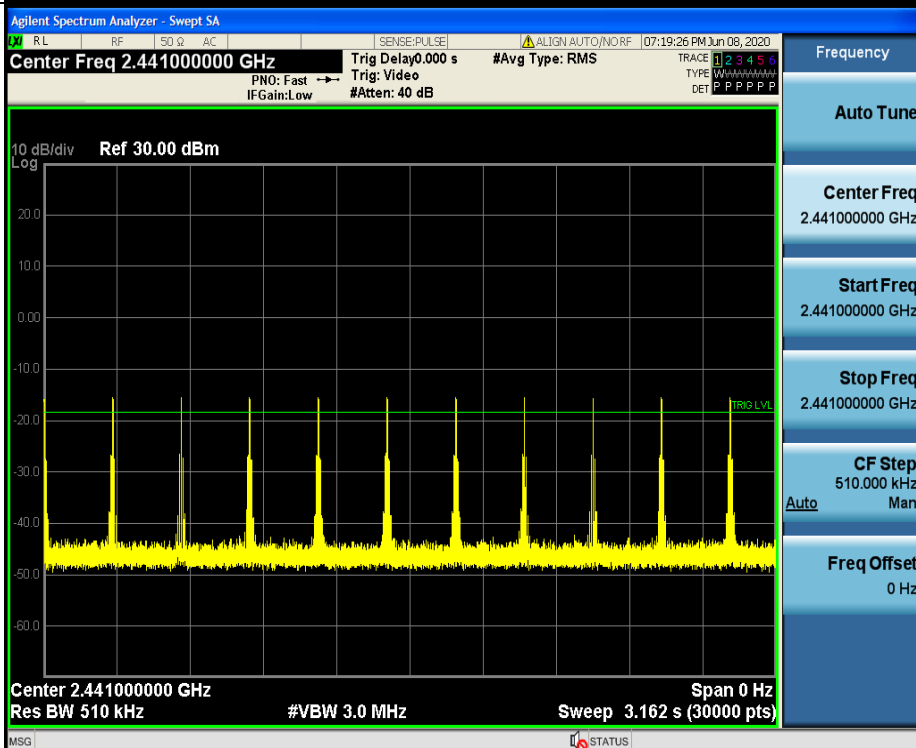
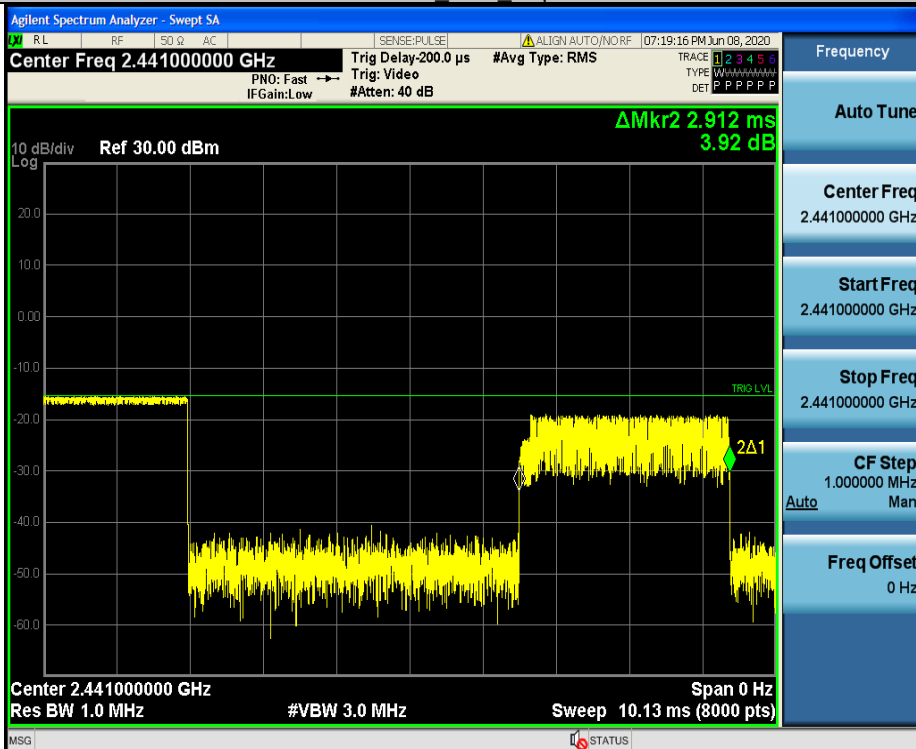
A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.902	110	0.319	<=0.4	PASS
2DH5	Ant1	Hop	2.912	110	0.32	<=0.4	PASS
3DH5	Ant1	Hop	2.912	110	0.32	<=0.4	PASS

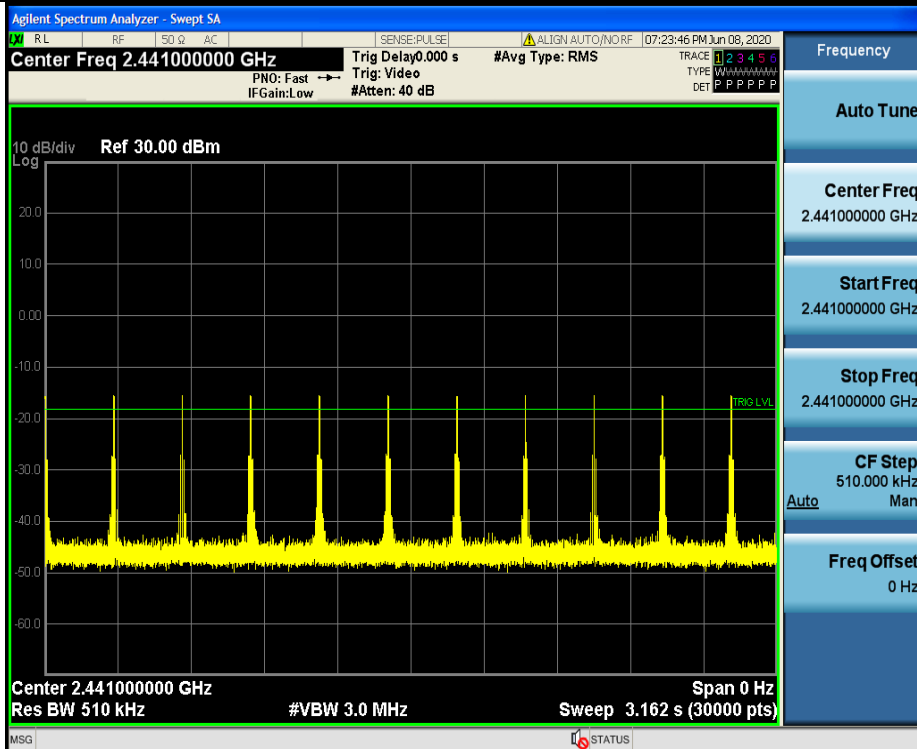
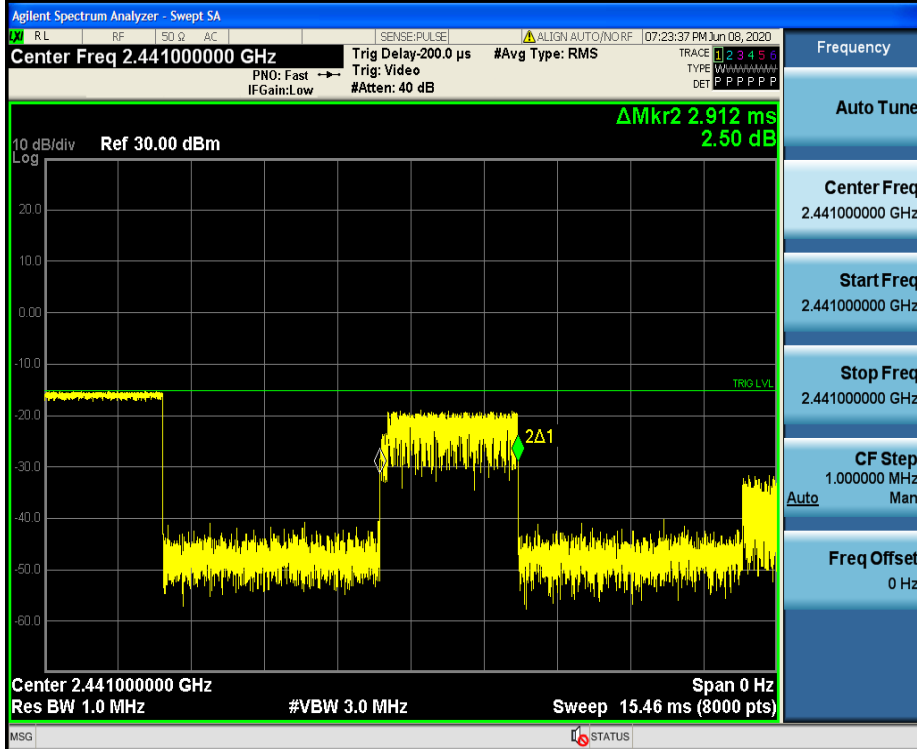
Test Graph



2DH5_Ant1_Hop



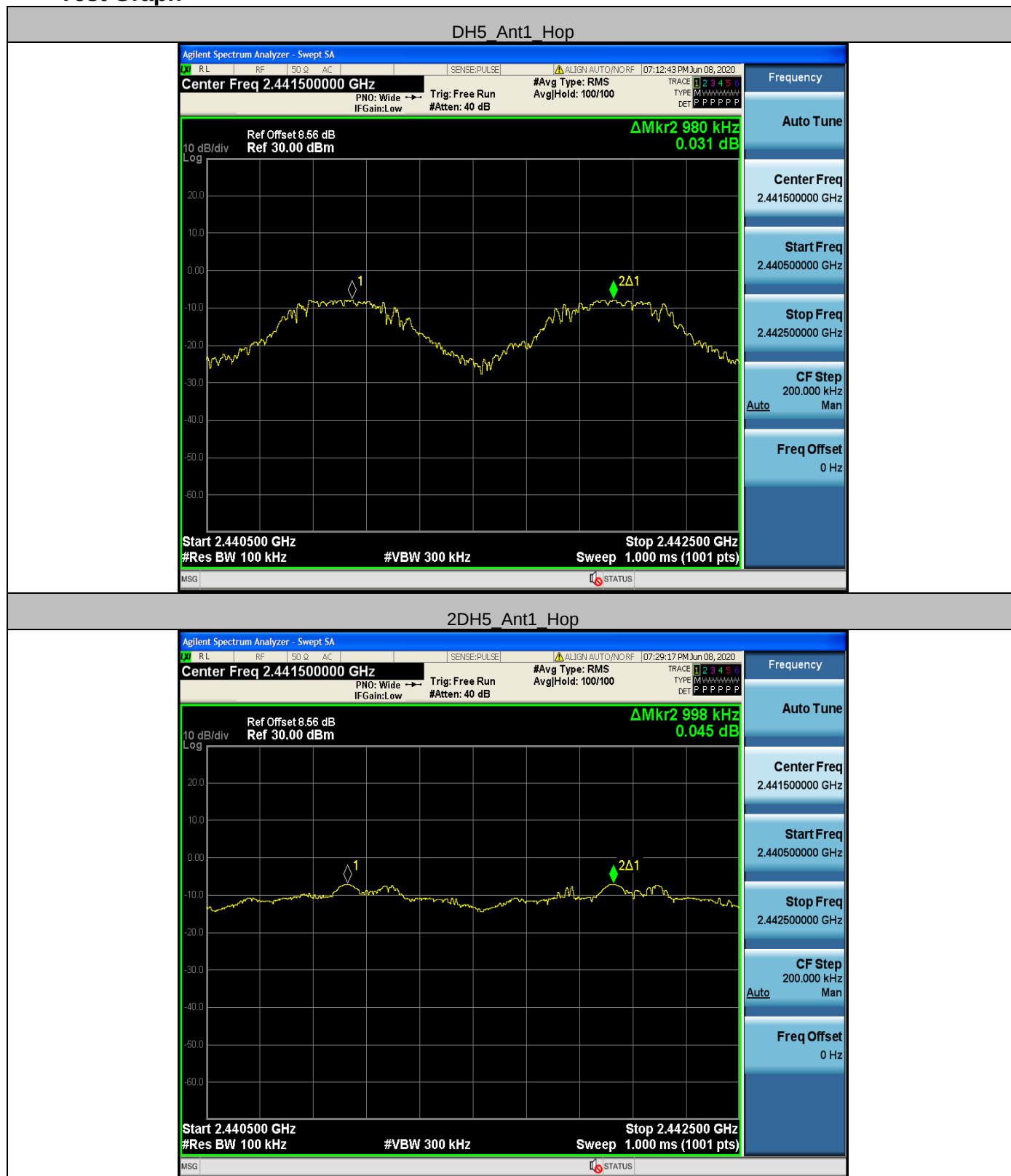
3DH5_Ant1_Hop

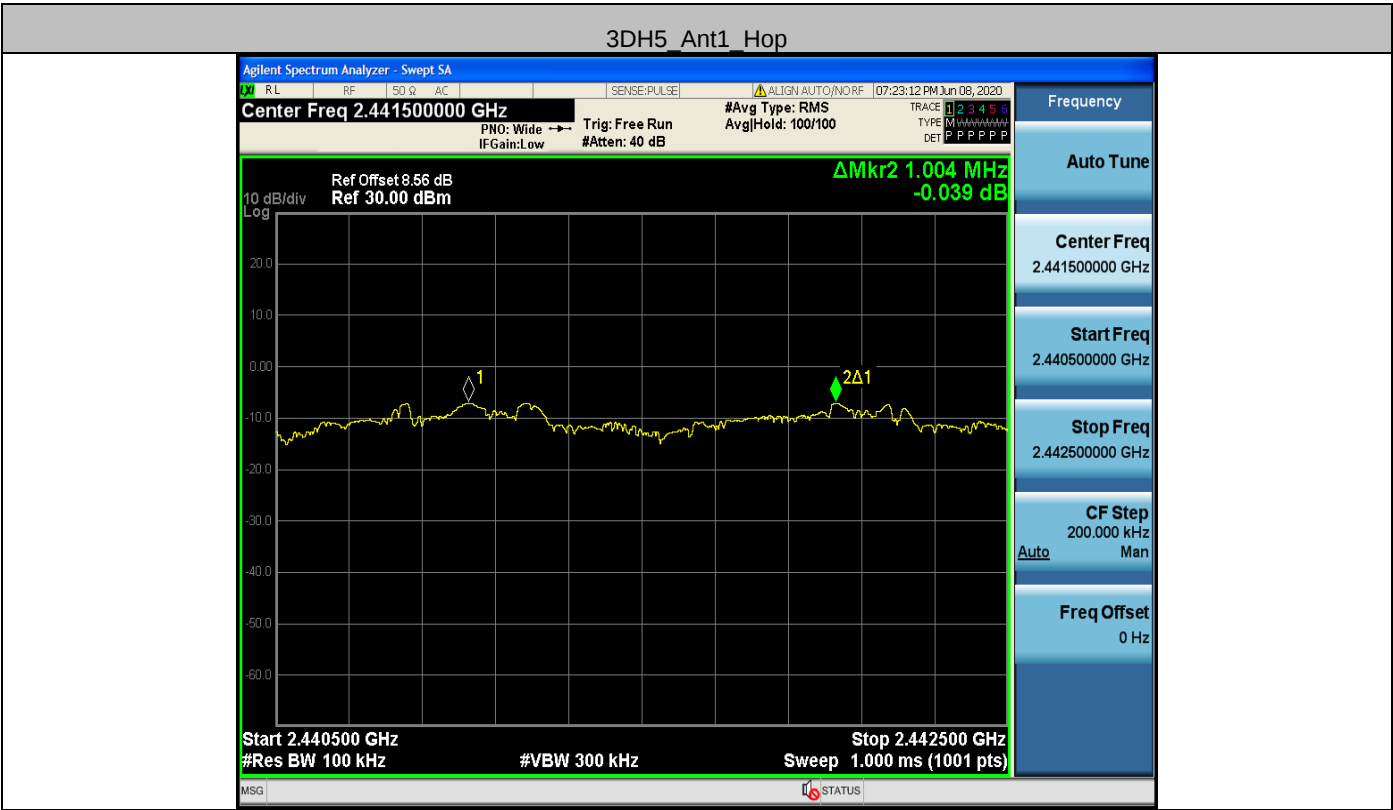


A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.980	≥ 0.746	PASS
2DH5	Ant1	Hop	0.998	≥ 0.942	PASS
3DH5	Ant1	Hop	1.004	≥ 0.916	PASS

Test Graph

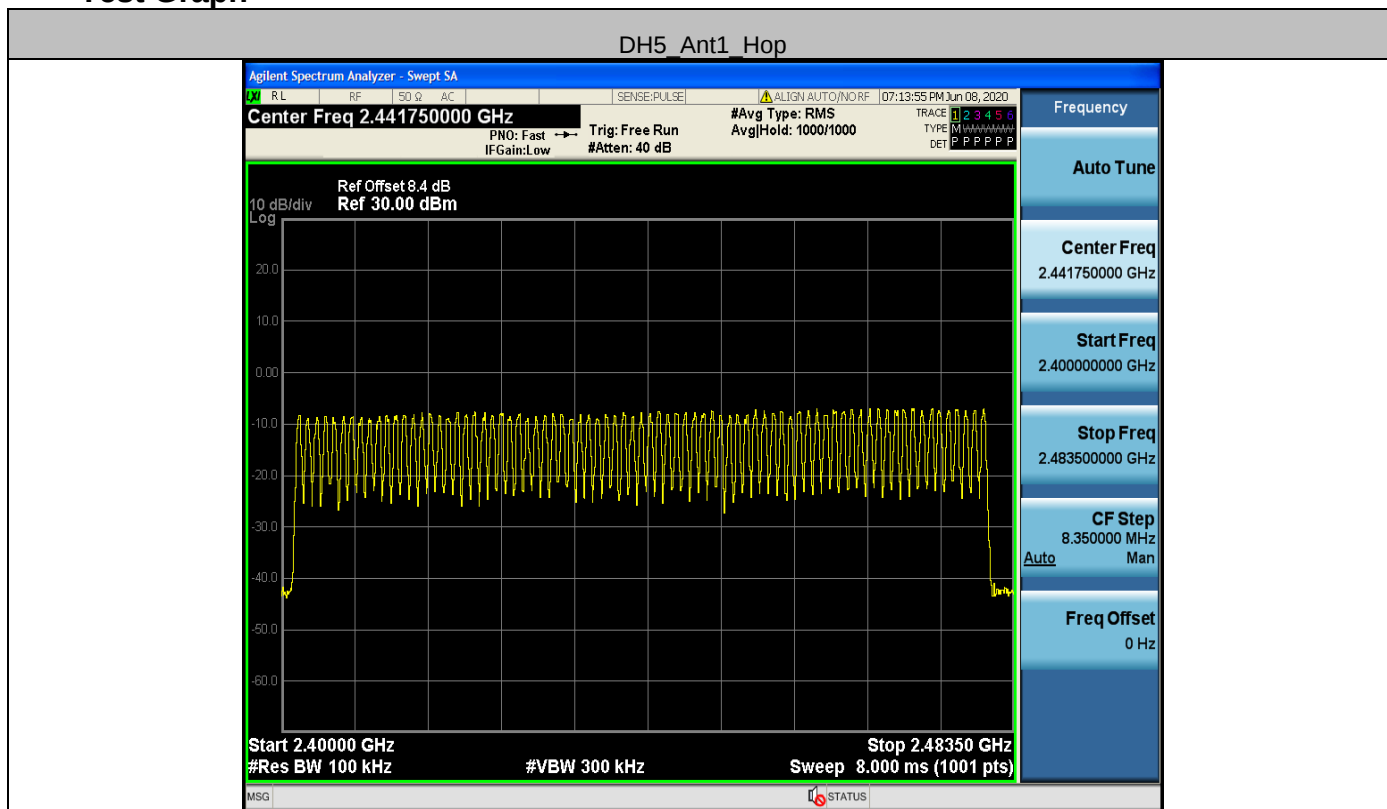




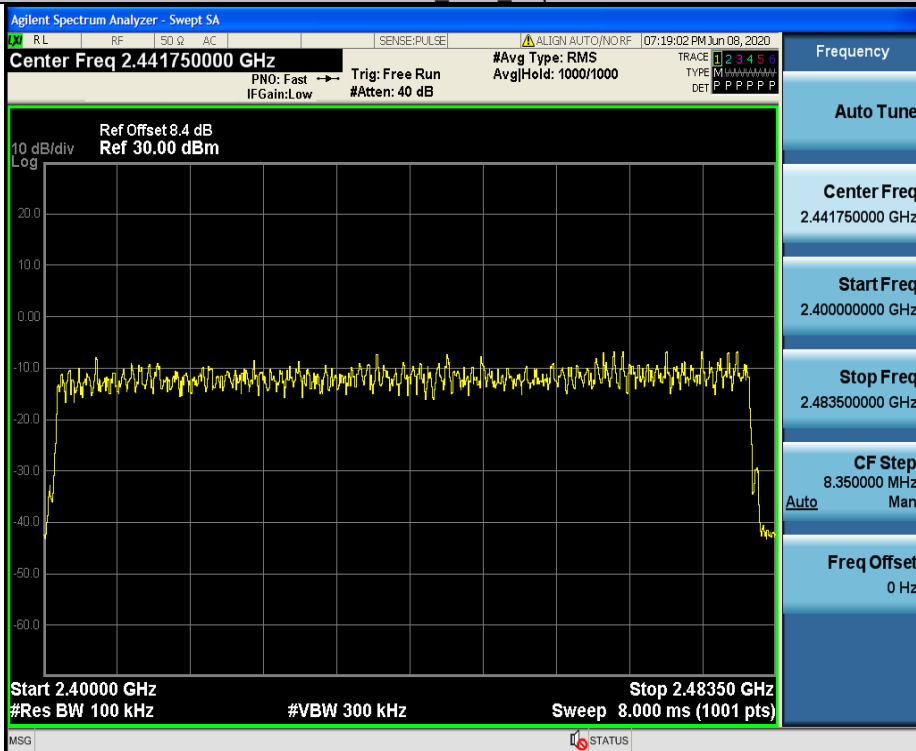
A.4 Hopping Channel Number

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

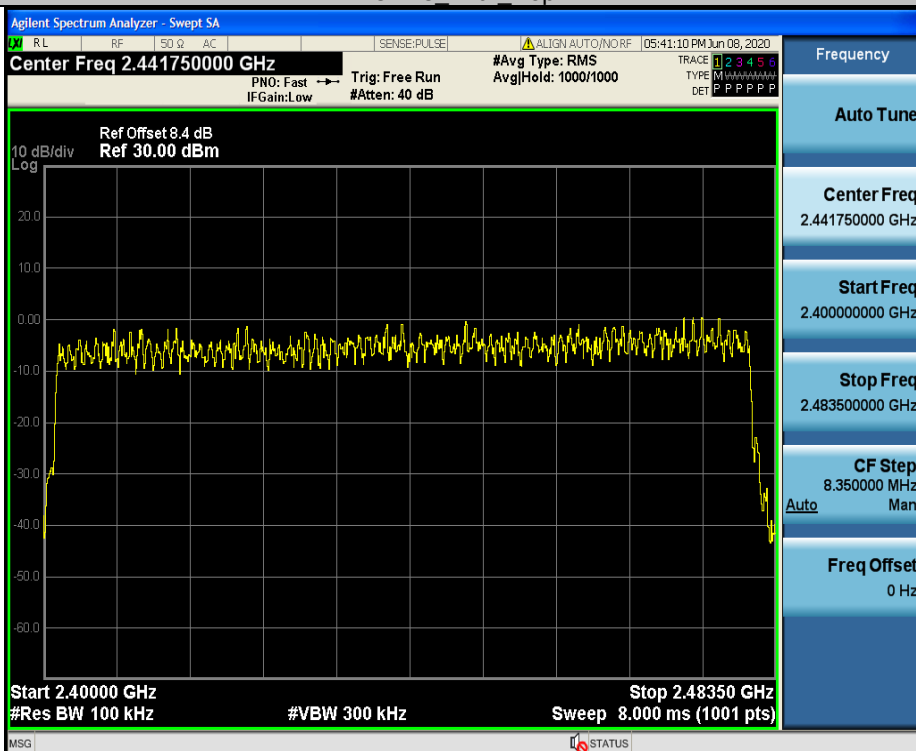
Test Graph



2DH5 Ant1 Hop



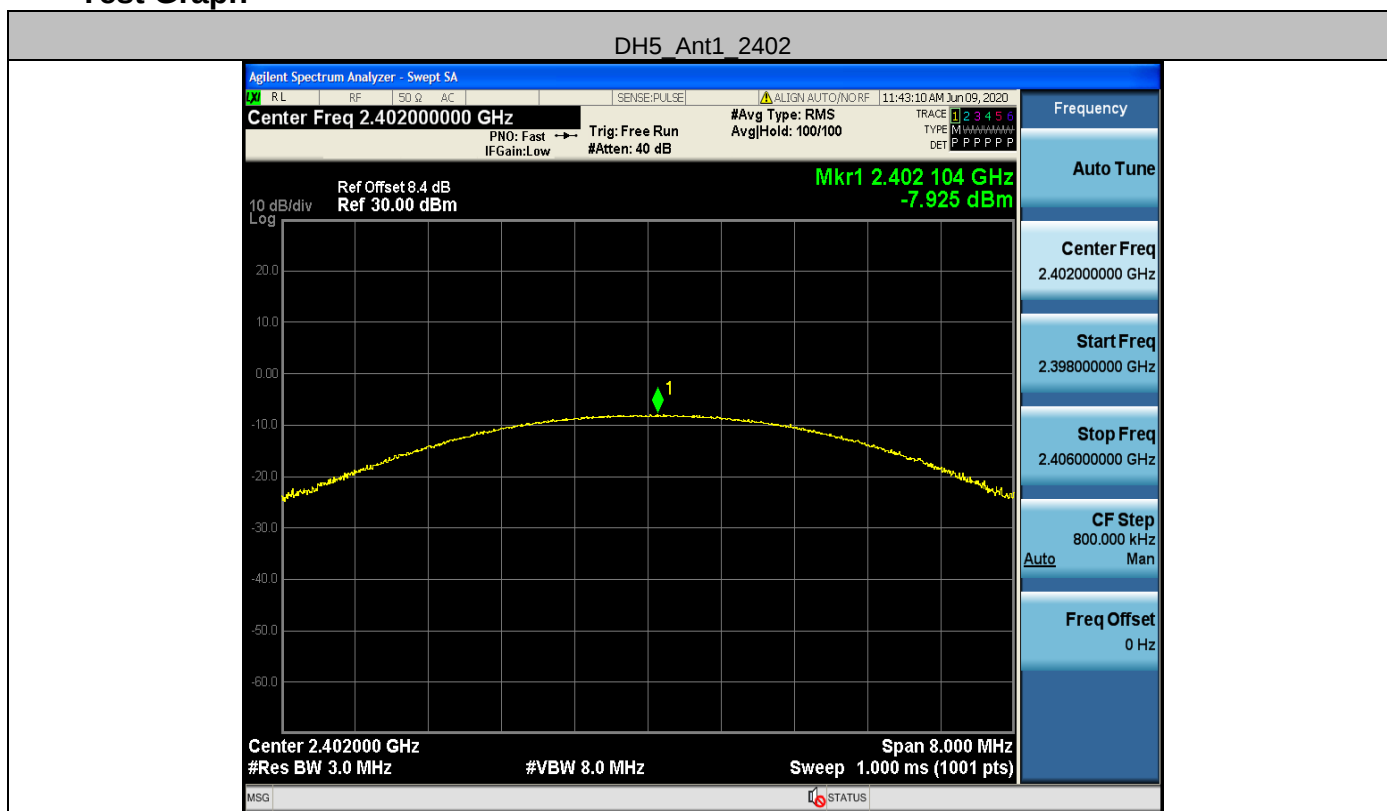
3DH5 Ant1 Hop



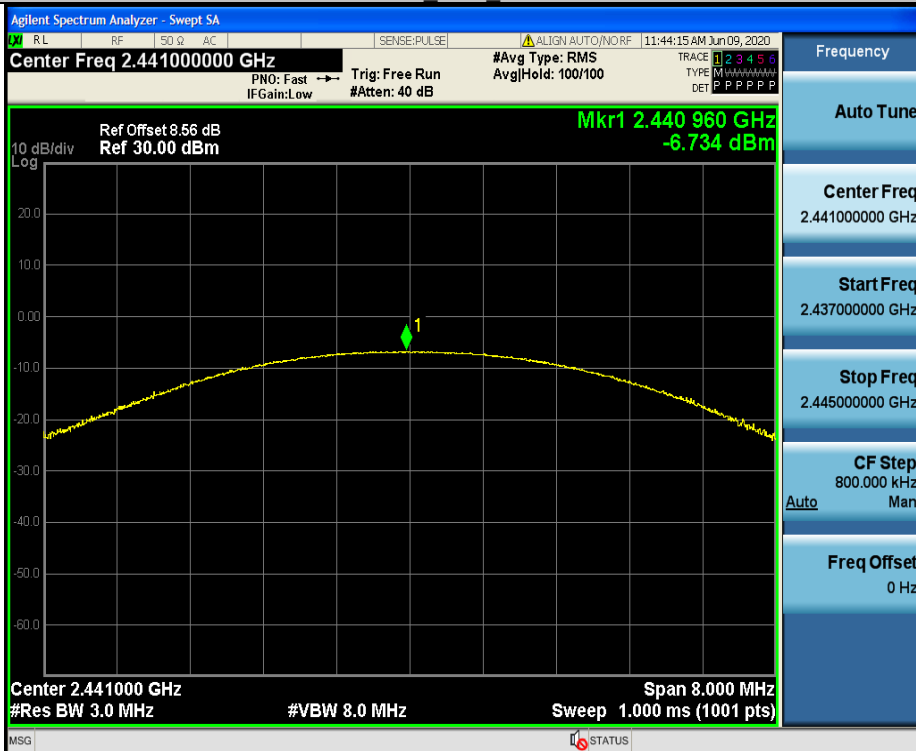
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-7.93	<=20.97	PASS
		2441	-6.73	<=20.97	PASS
		2480	-6.19	<=20.97	PASS
2DH5	Ant1	2402	-9.80	<=20.97	PASS
		2441	-7.72	<=20.97	PASS
		2480	-7.32	<=20.97	PASS
3DH5	Ant1	2402	-9.34	<=20.97	PASS
		2441	-7.46	<=20.97	PASS
		2480	-7.12	<=20.97	PASS

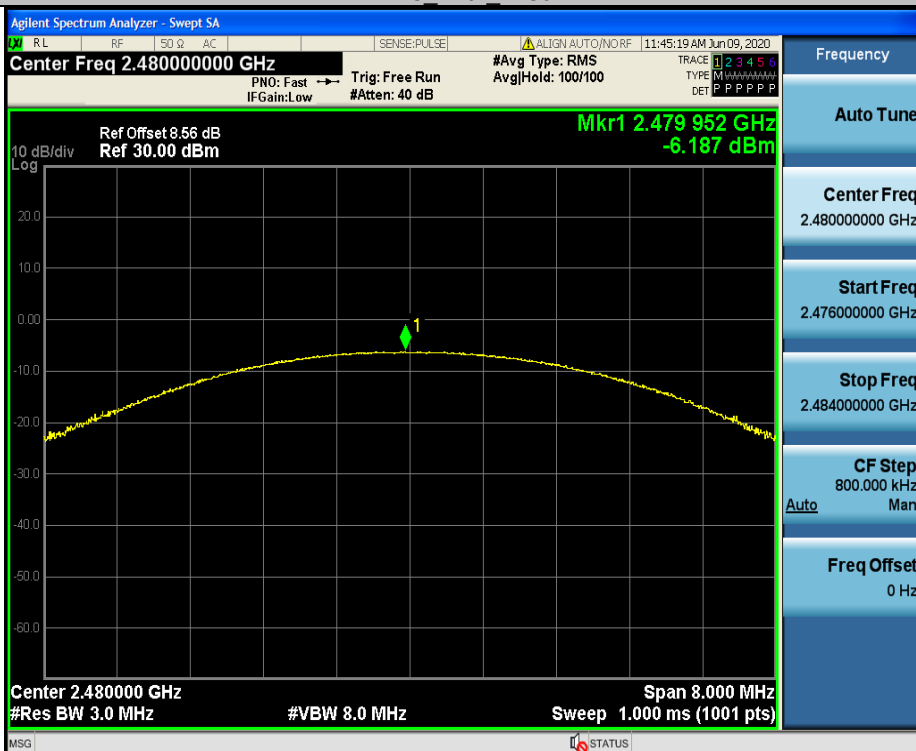
Test Graph



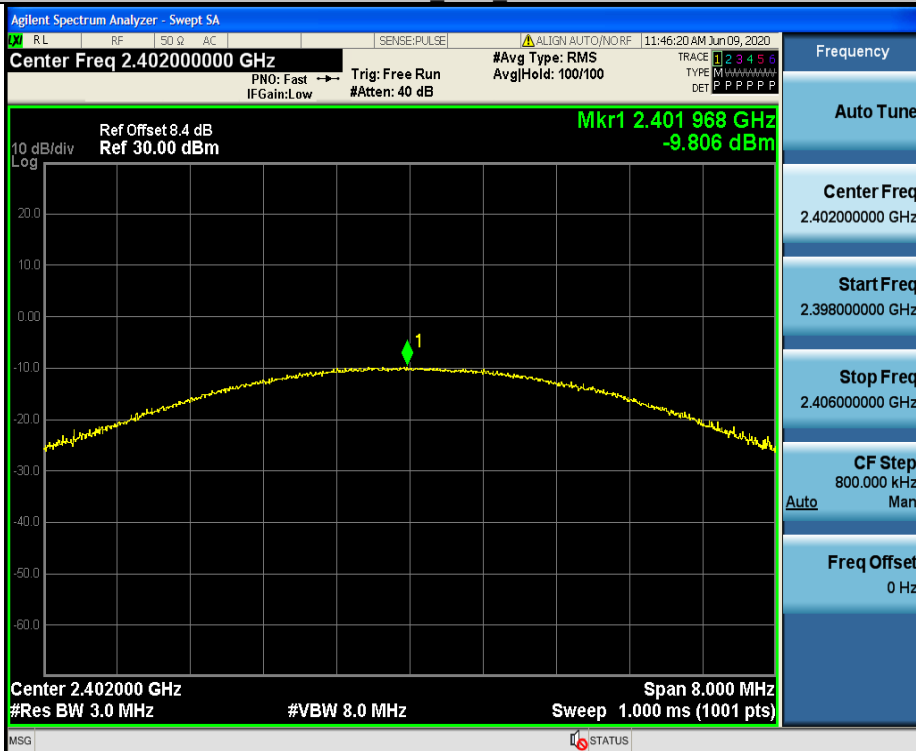
DH5_Ant1_2441



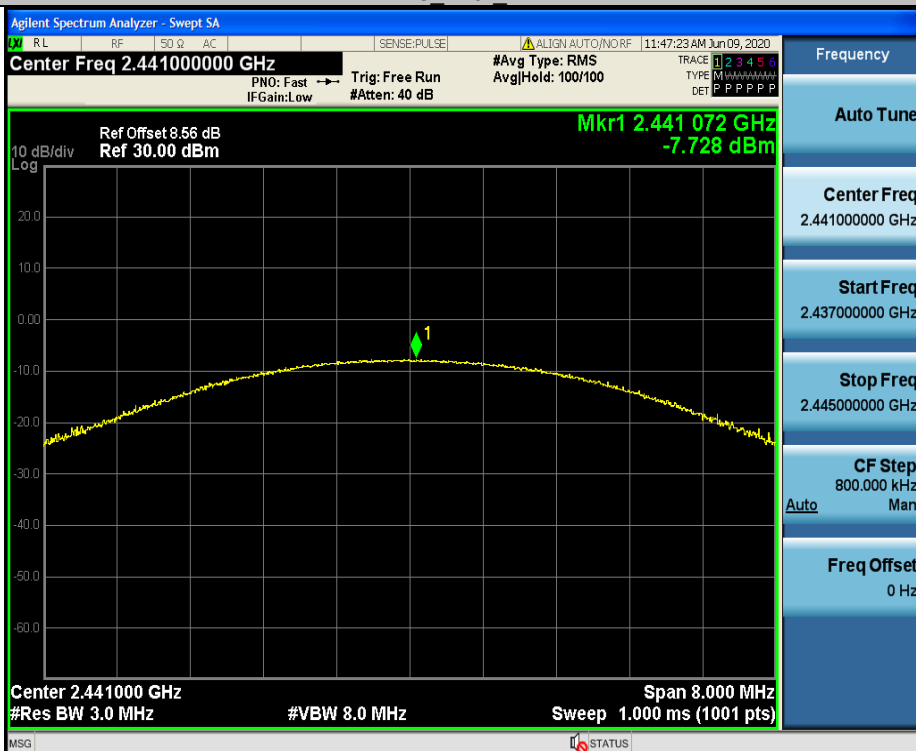
DH5_Ant1_2480



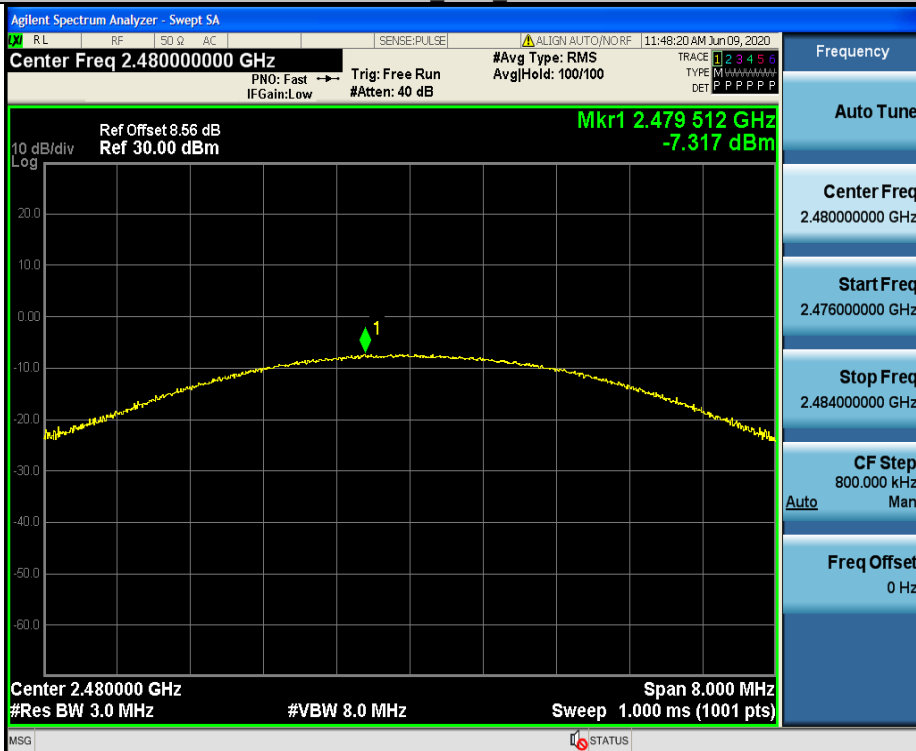
2DH5_Ant1_2402



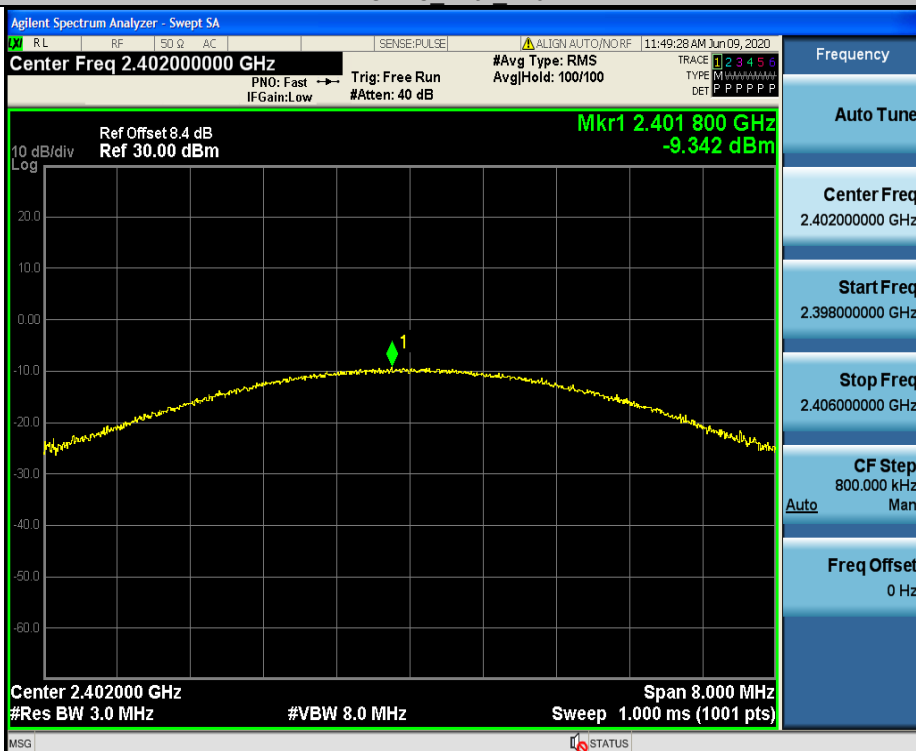
2DH5_Ant1_2441



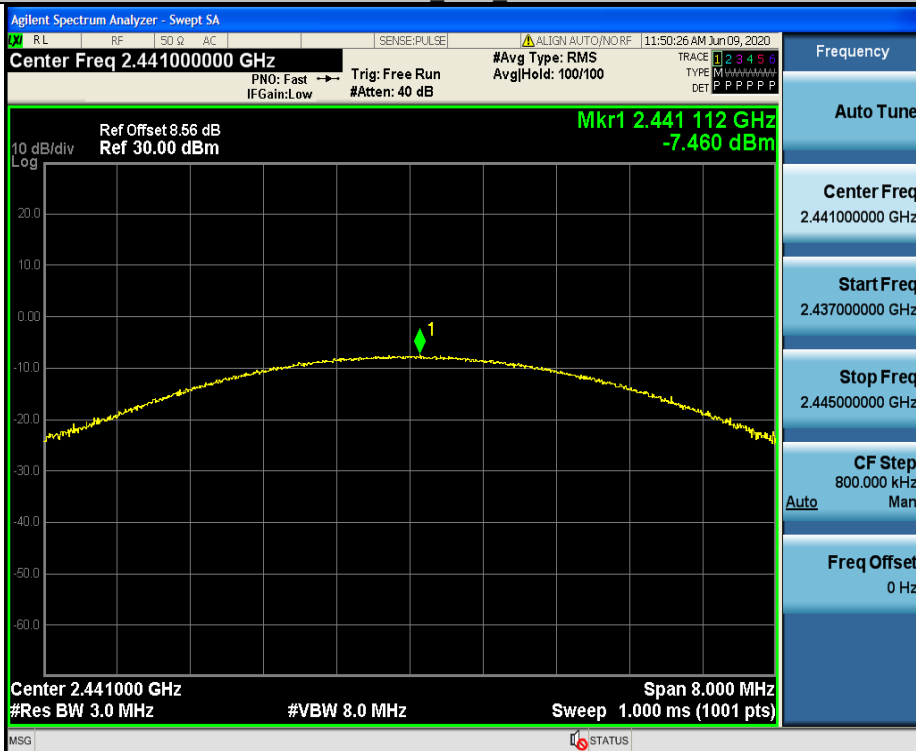
2DH5_Ant1_2480



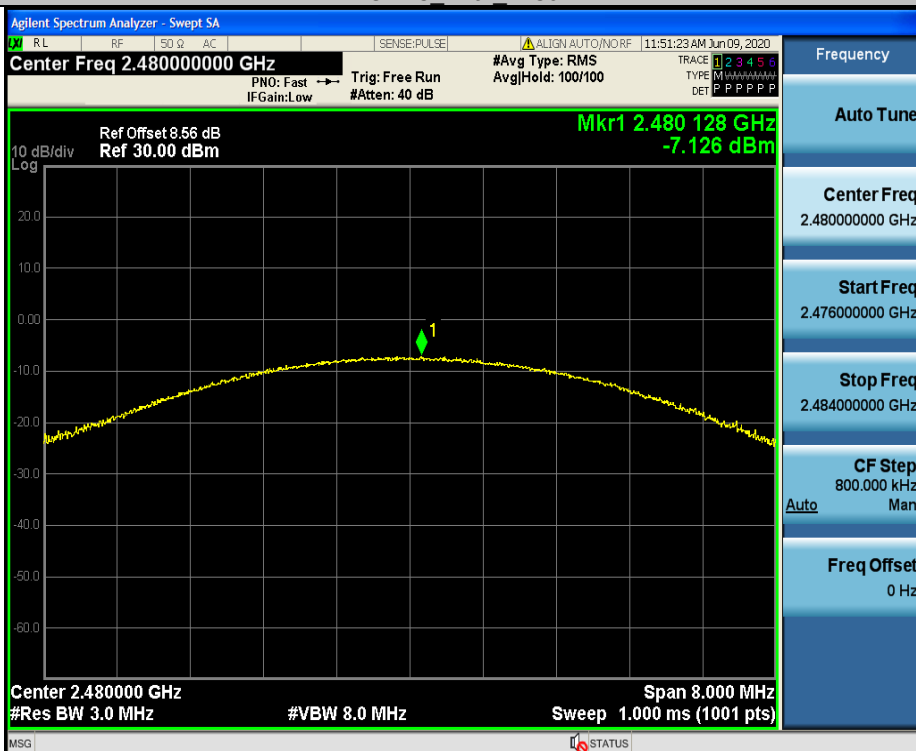
3DH5_Ant1_2402



3DH5_Ant1_2441



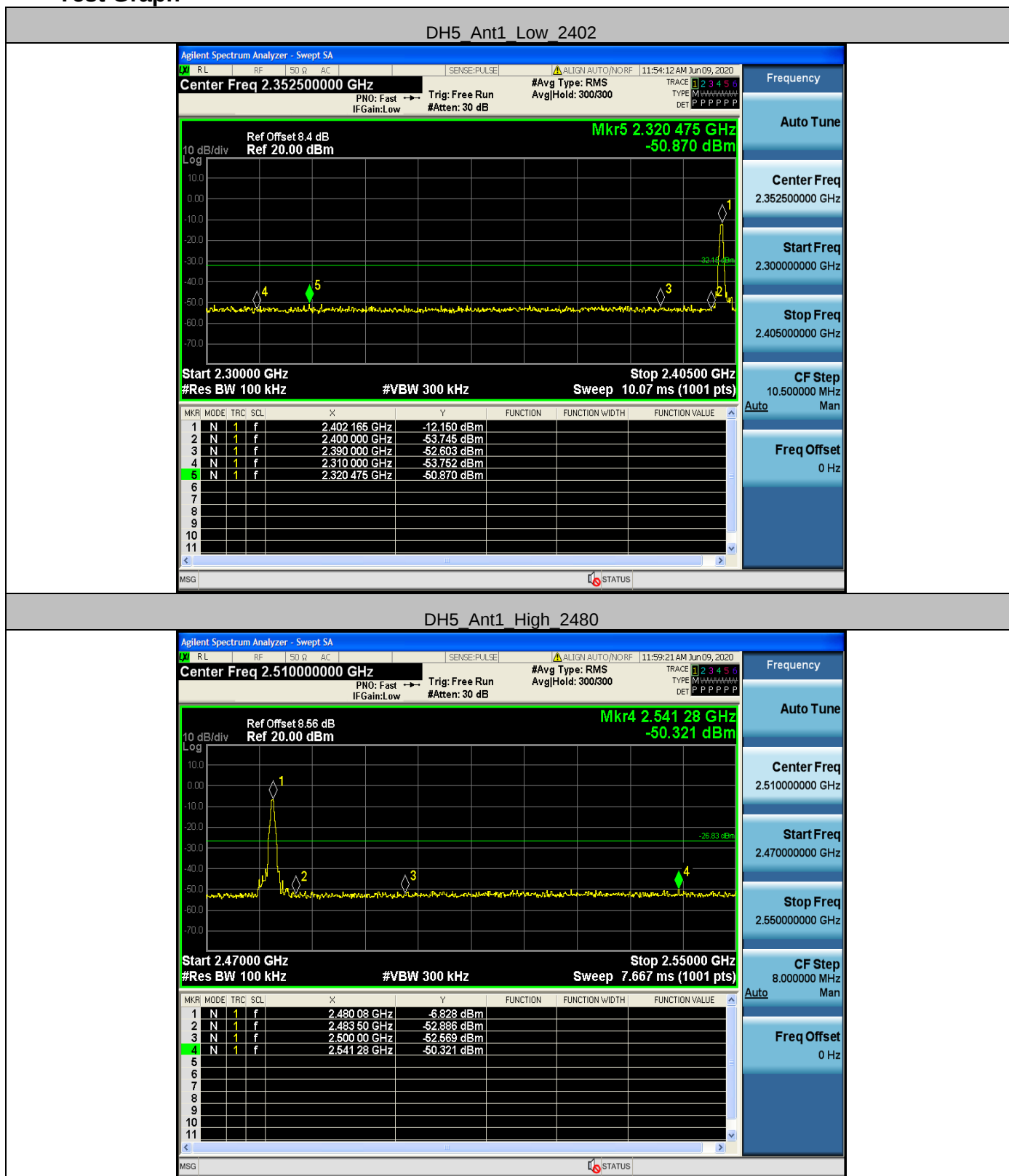
3DH5_Ant1_2480



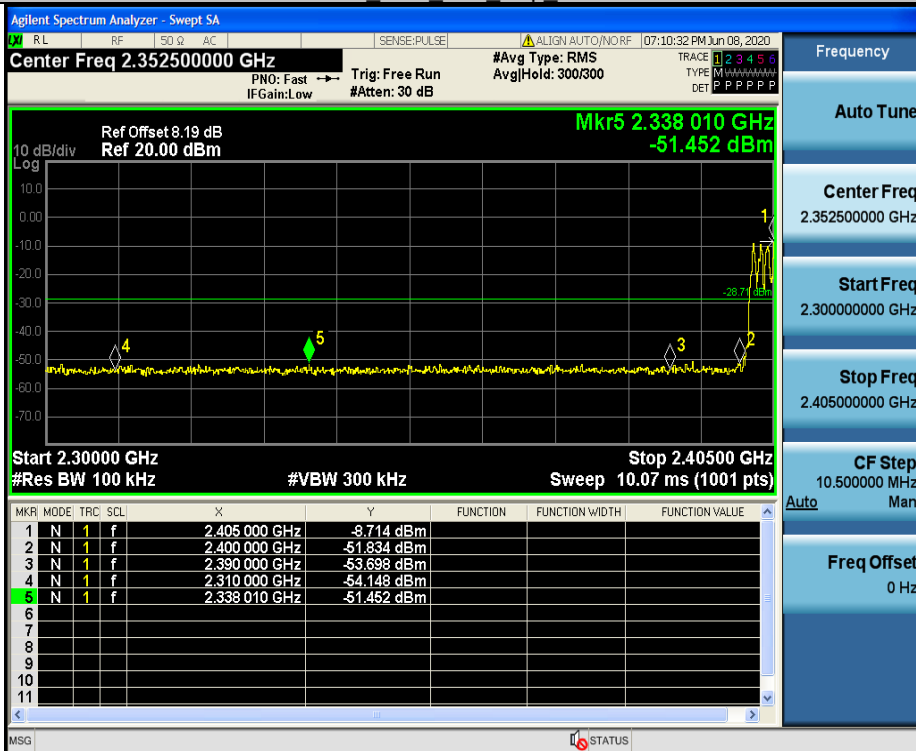
A.6 Band-edge for RF Conducted Emissions

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-8.43	-50.87	<=-28.43	PASS
		High	2480	-6.24	-50.33	<=-26.24	PASS
		Low	Hop_2402	-8.71	-51.45	-28.71	PASS
		High	Hop_2480	-6.68	-50.23	-26.68	PASS
2DH5	Ant1	Low	2402	-8.33	-46.89	<=-28.33	PASS
		High	2480	-6.44	-50.04	<=-26.44	PASS
		Low	Hop_2402	-9.29	-50.78	-29.29	PASS
		High	Hop_2480	-6.79	-49.99	-26.79	PASS
3DH5	Ant1	Low	2402	-8.37	-46.43	<=-28.37	PASS
		High	2480	-6.43	-49.44	<=-26.43	PASS
		Low	Hop_2402	-11.16	-50.87	-31.16	PASS
		High	Hop_2480	-8.13	-49.46	-28.13	PASS

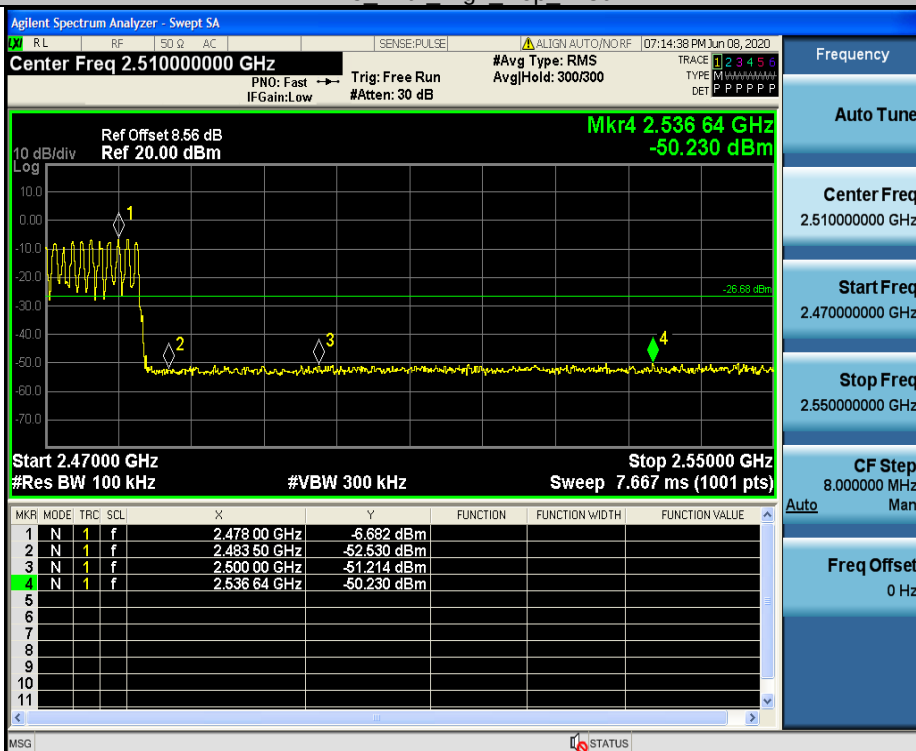
Test Graph



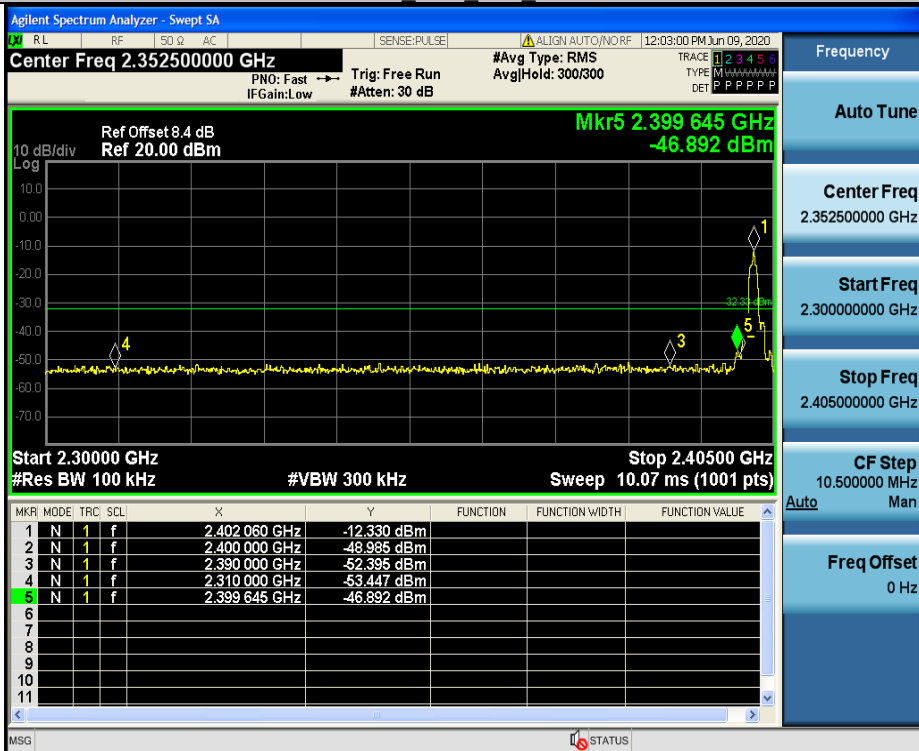
DH5 Ant1 Low Hop 2402



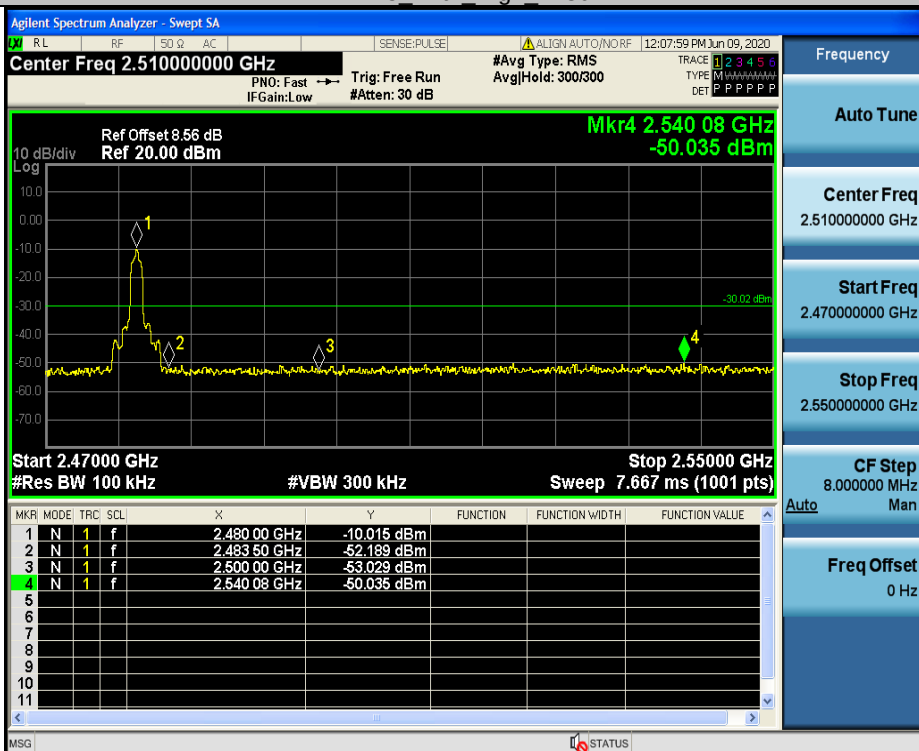
DH5 Ant1 High Hop 2480



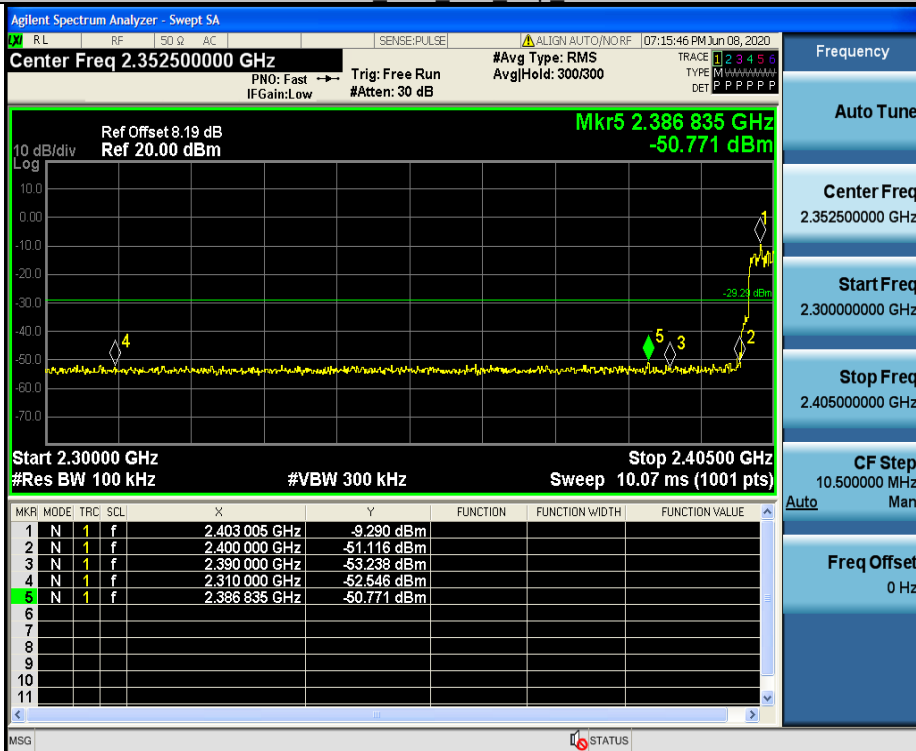
2DH5 Ant1 Low 2402



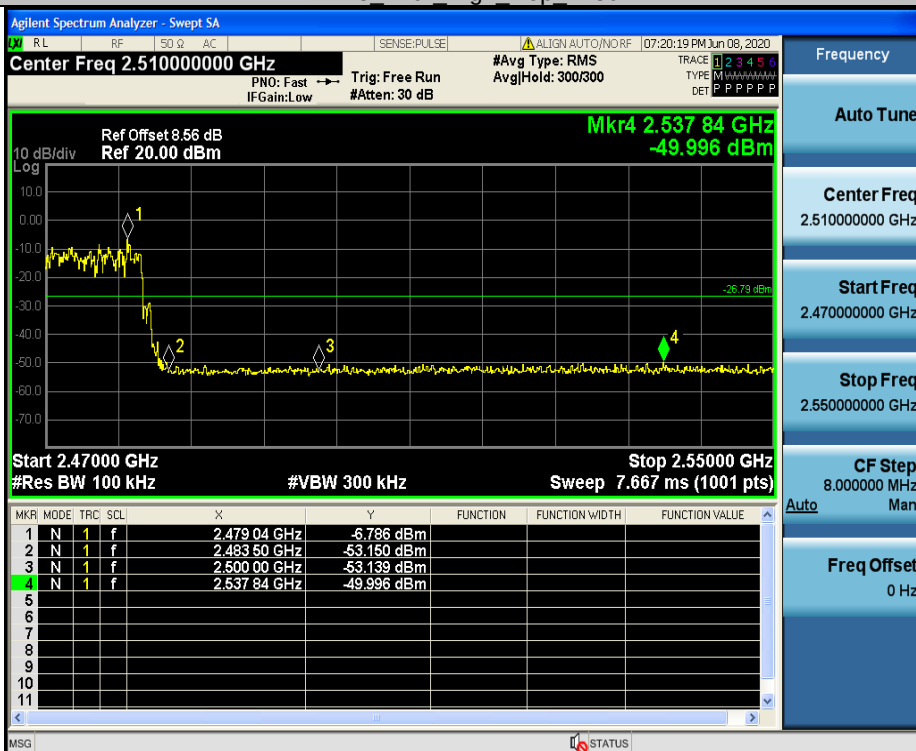
2DH5 Ant1 High 2480



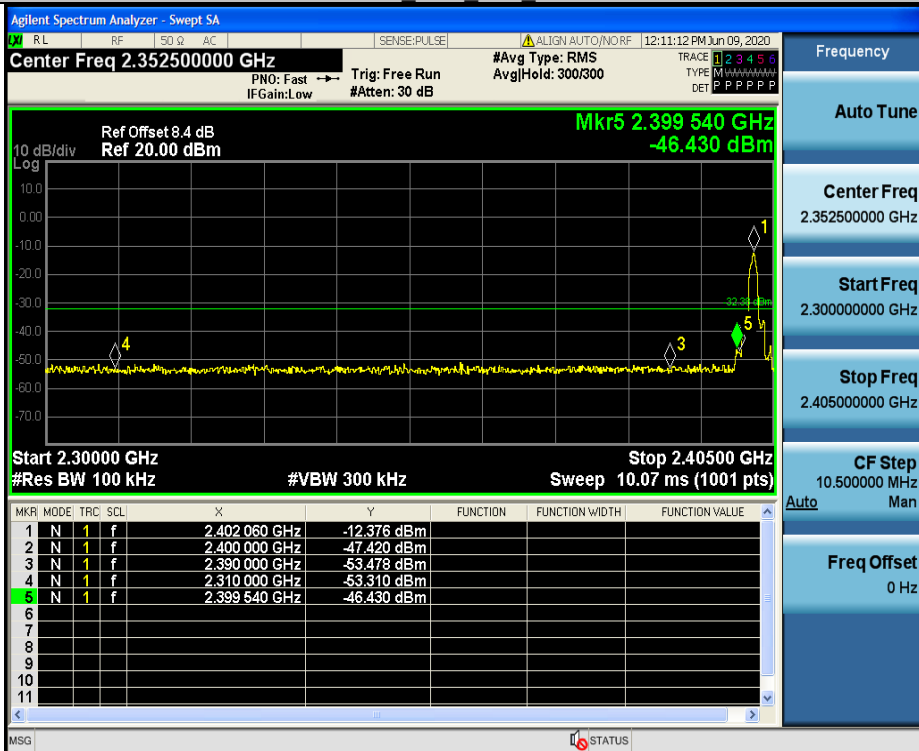
2DH5 Ant1 Low Hop 2402



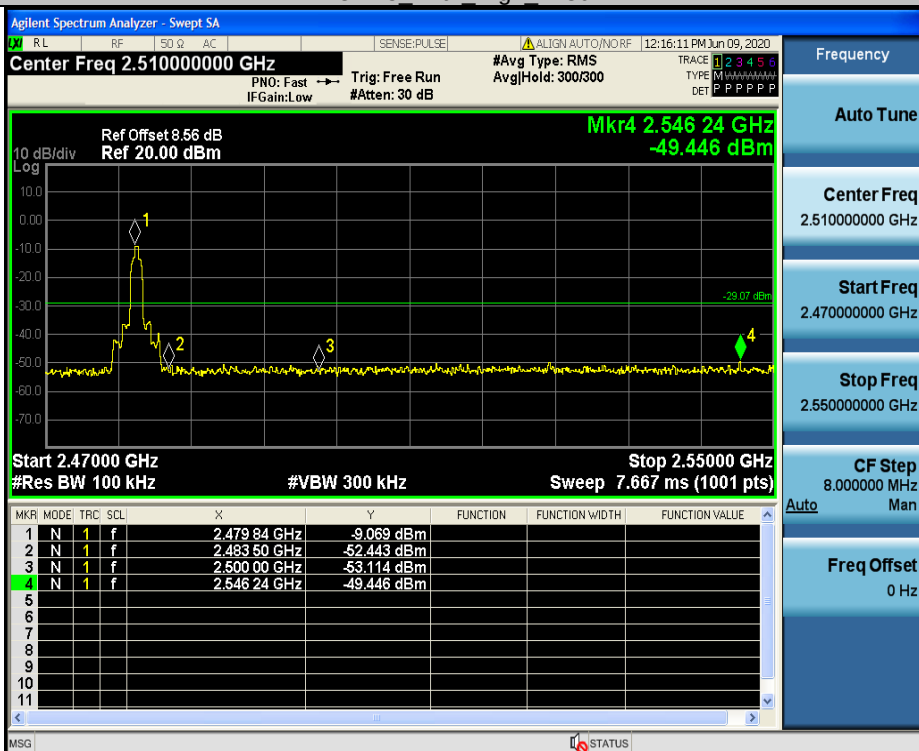
2DH5 Ant1 High Hop 2480



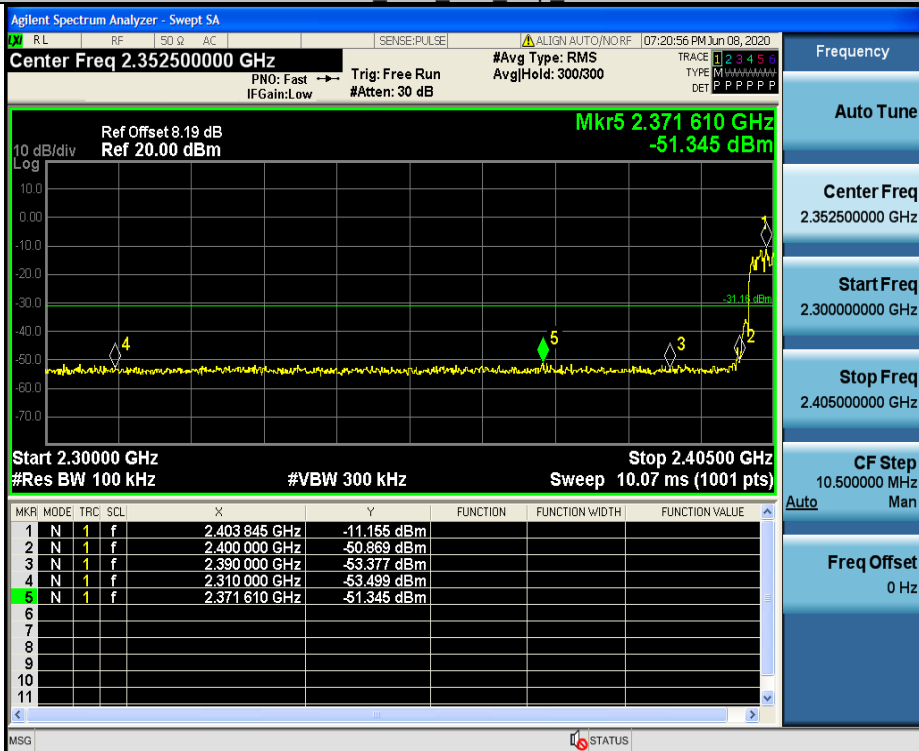
3DH5 Ant1 Low 2402



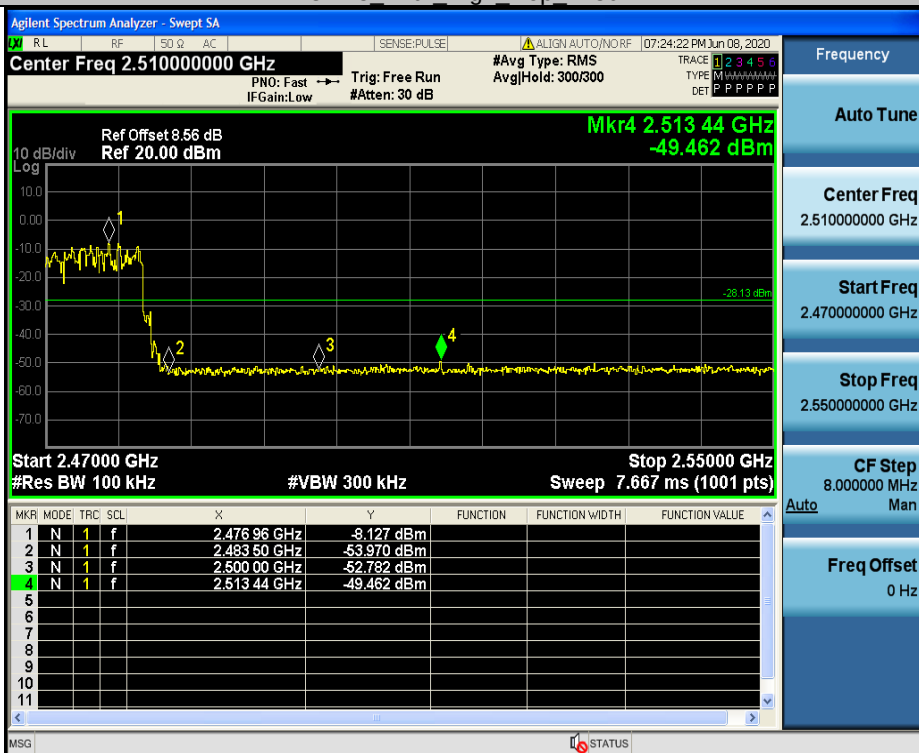
3DH5 Ant1 High 2480



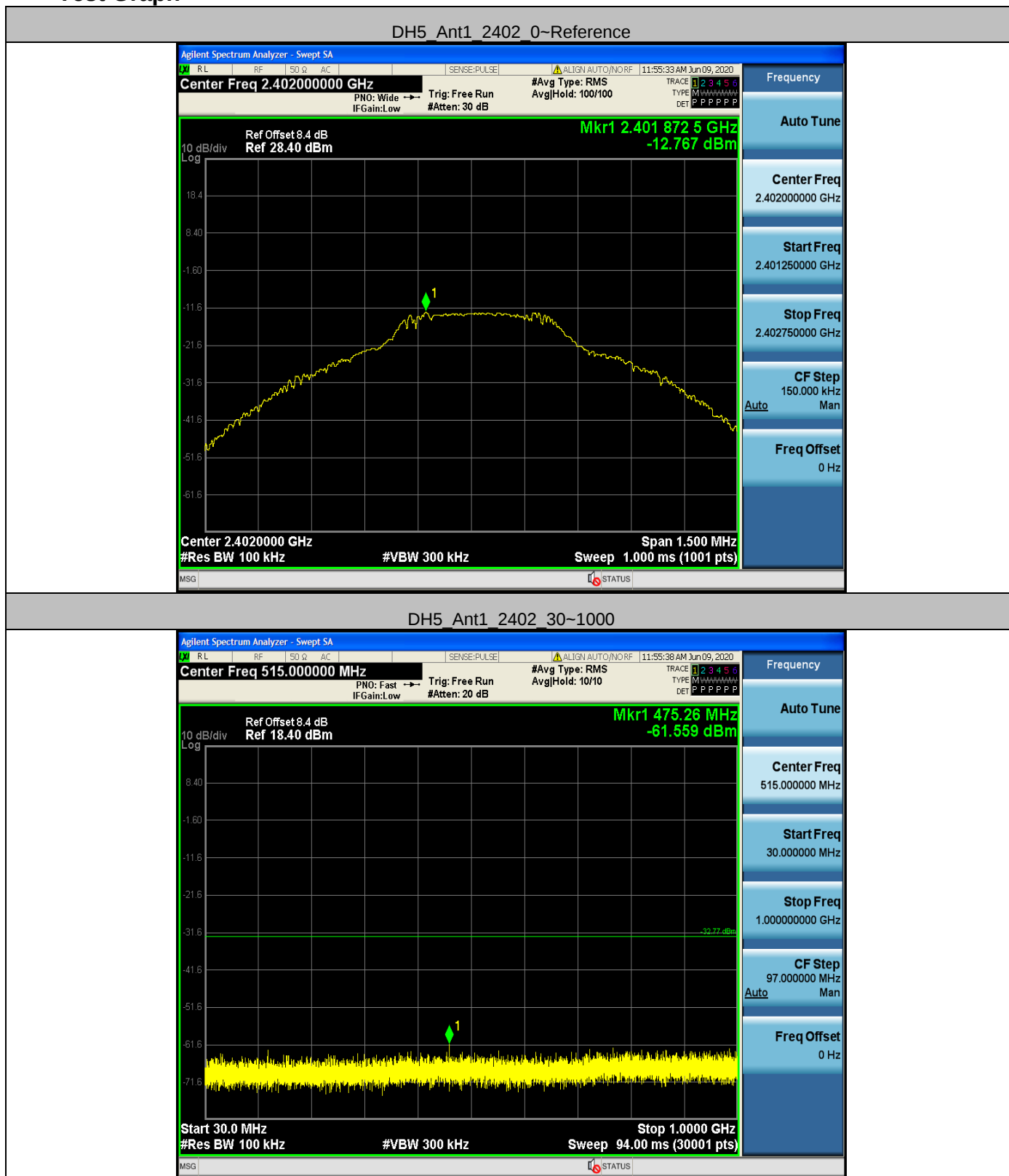
3DH5 Ant1 Low Hop 2402



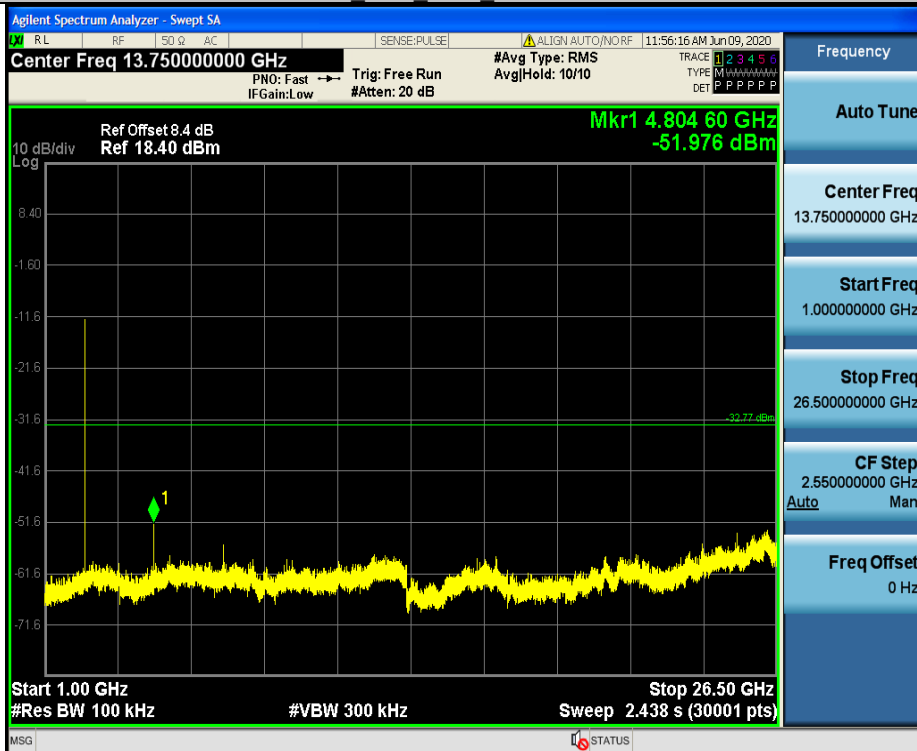
3DH5 Ant1 High Hop 2480



A.7 RF Conducted Spurious Emissions Test Graph



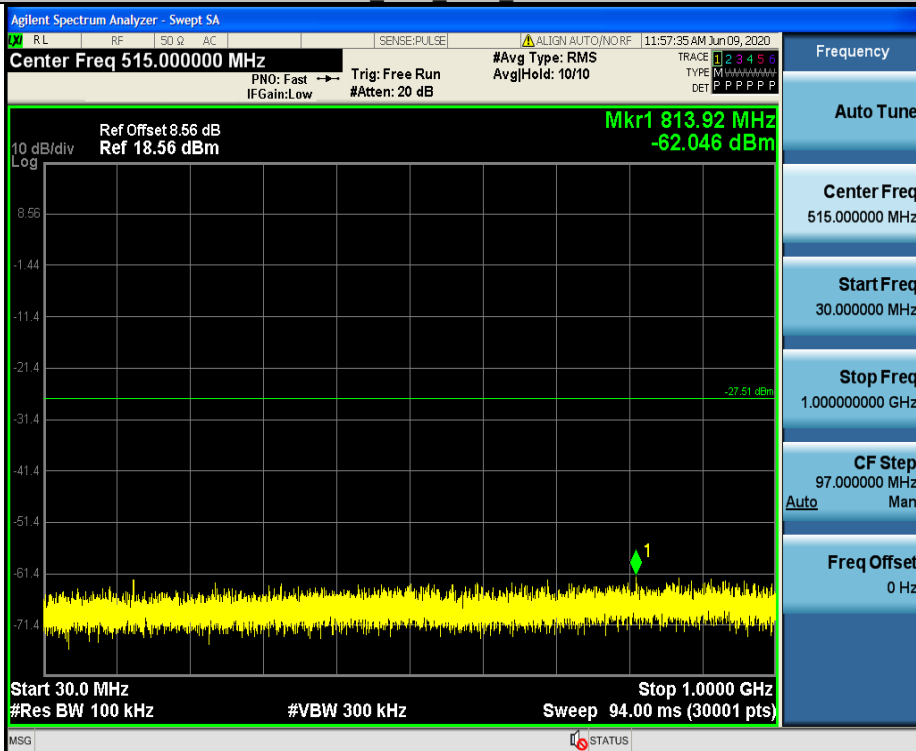
DH5 Ant1 2402 1000~26500



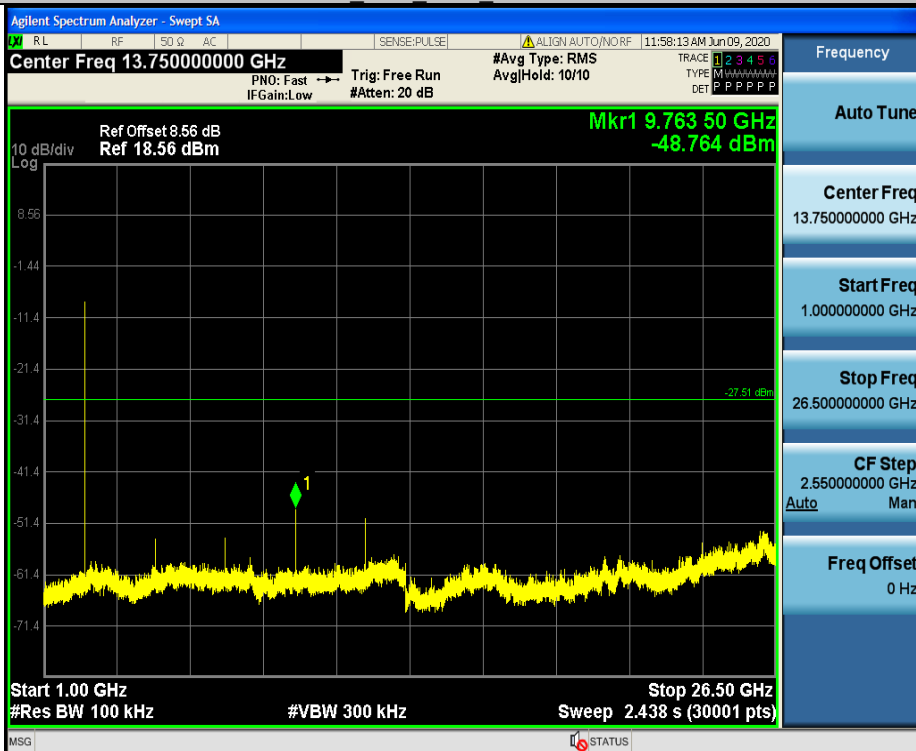
DH5 Ant1 2441 0~Reference



DH5 Ant1 2441 30~1000



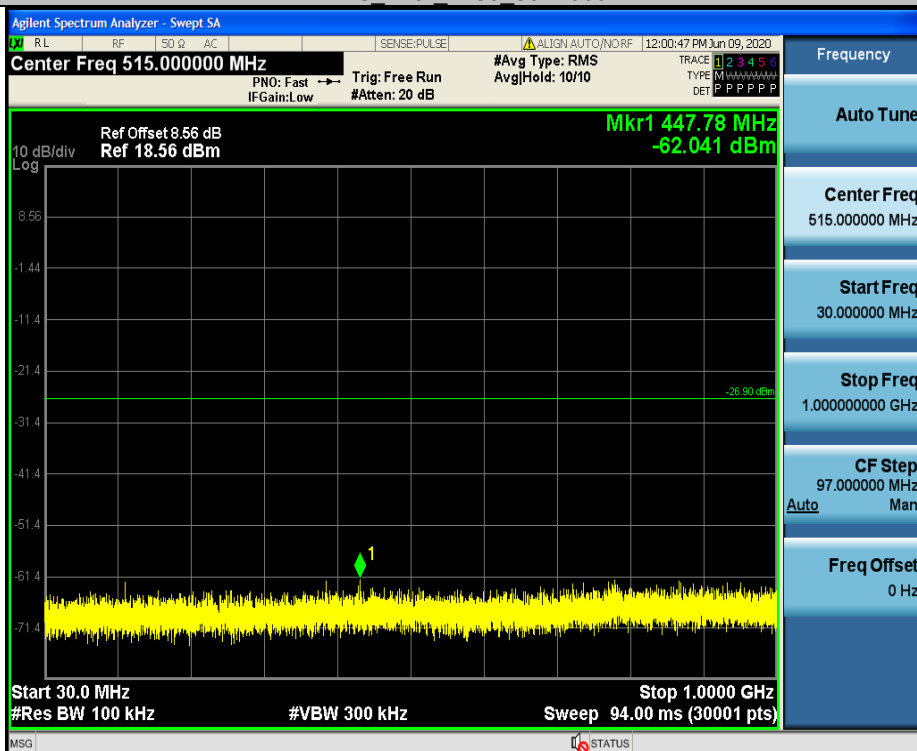
DH5 Ant1 2441 1000~26500



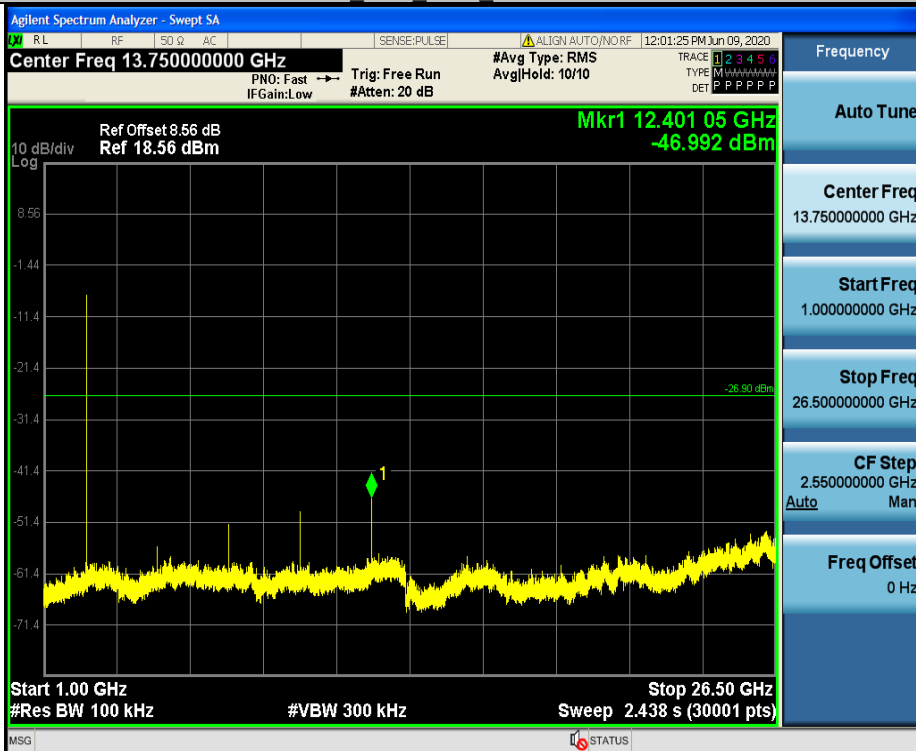
DH5_Ant1_2480_0-Reference



DH5_Ant1_2480_30-1000



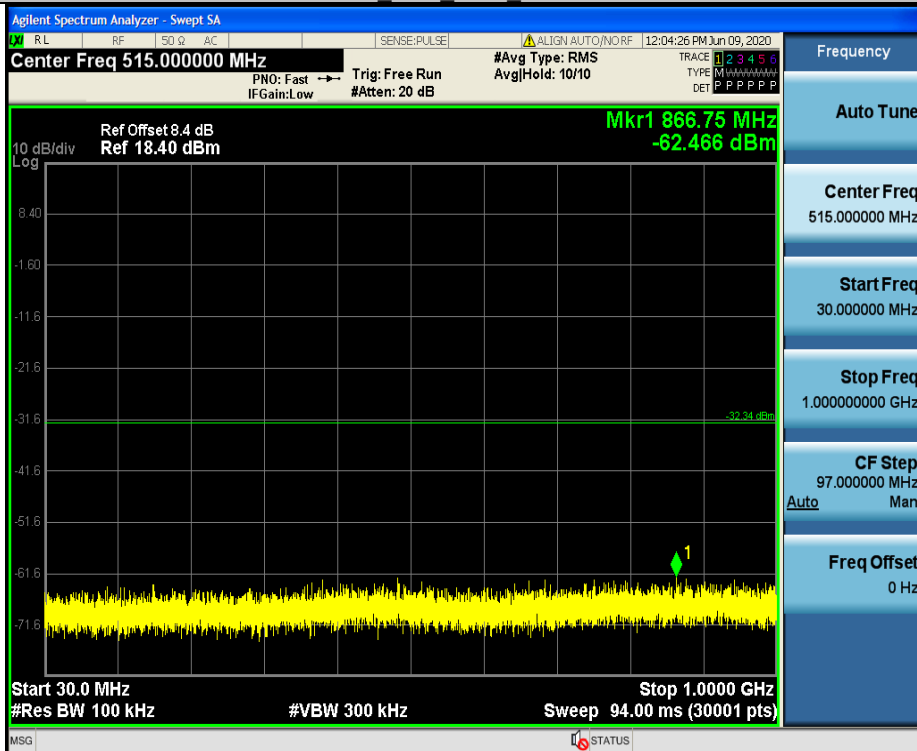
DH5 Ant1 2480 1000~26500



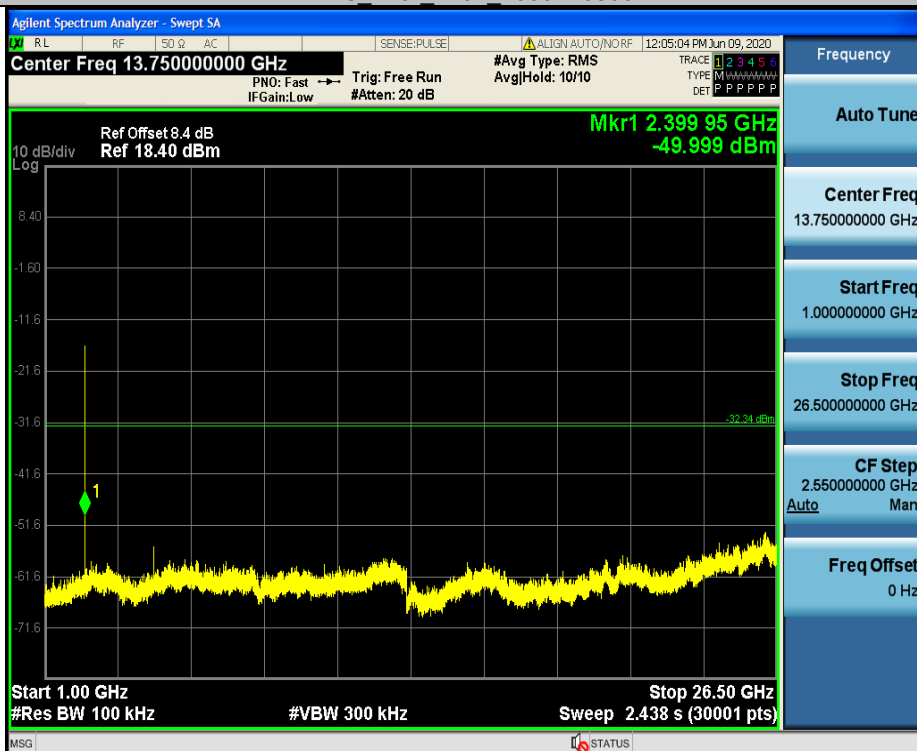
2DH5 Ant1 2402 0~Reference



2DH5_Ant1_2402_30~1000



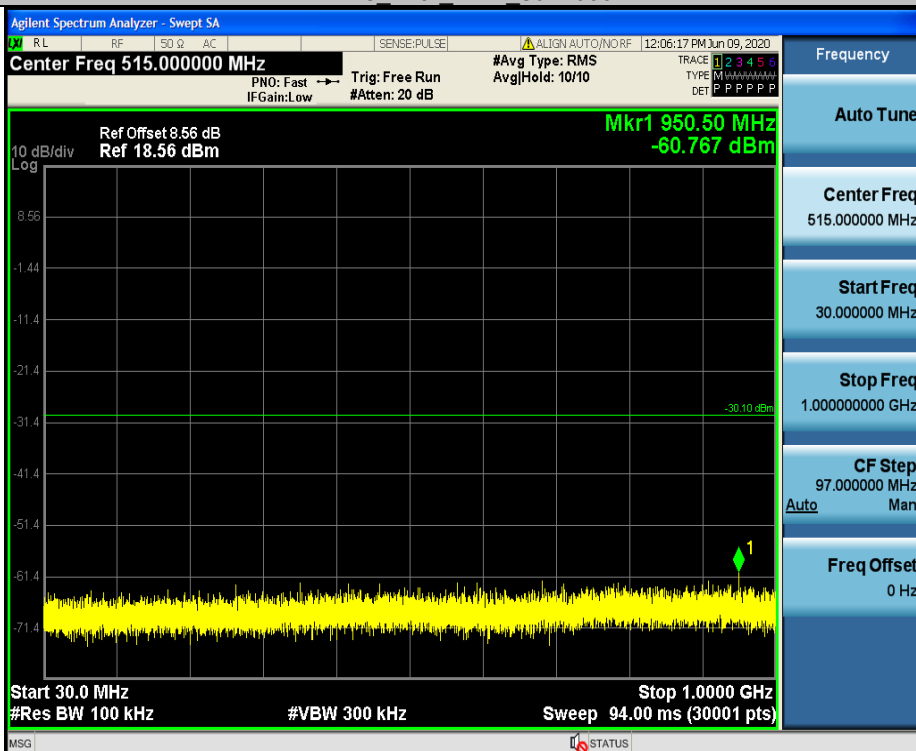
2DH5_Ant1_2402_1000~26500



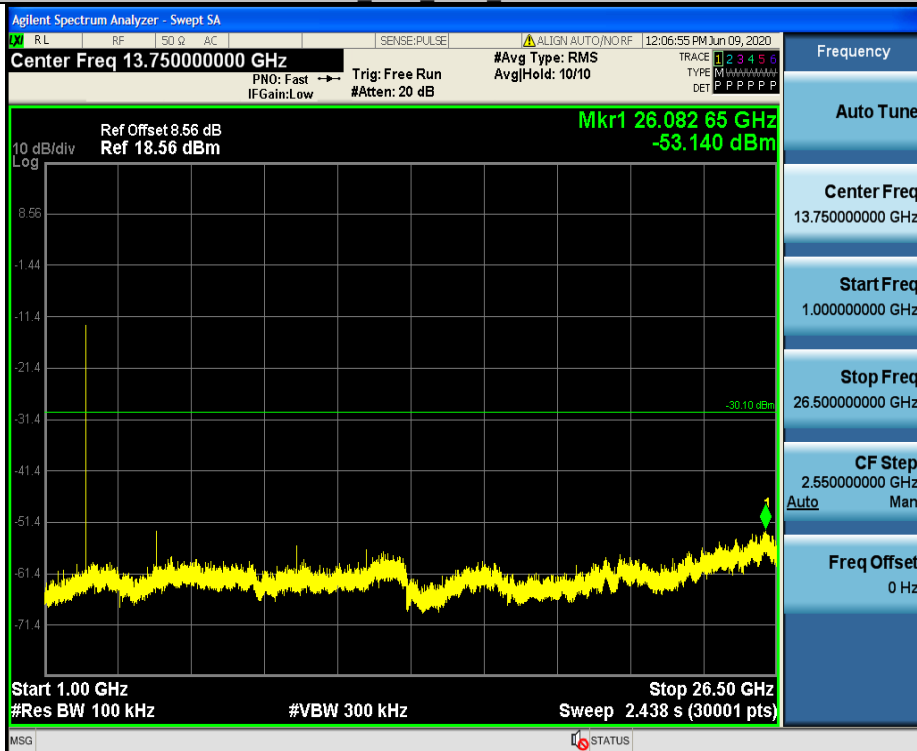
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



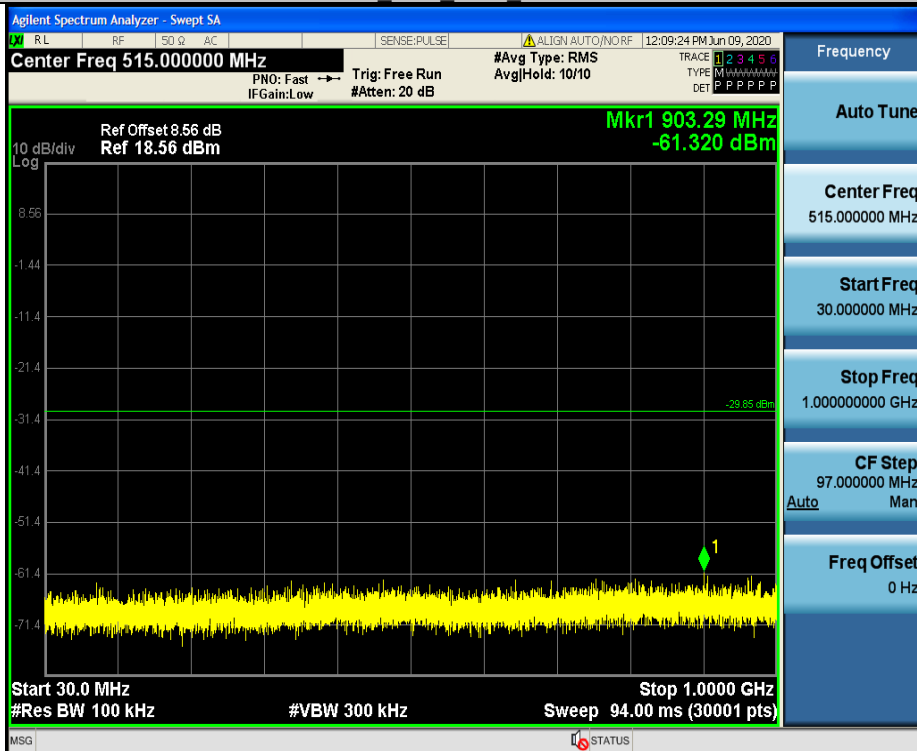
2DH5 Ant1 2441 1000-26500



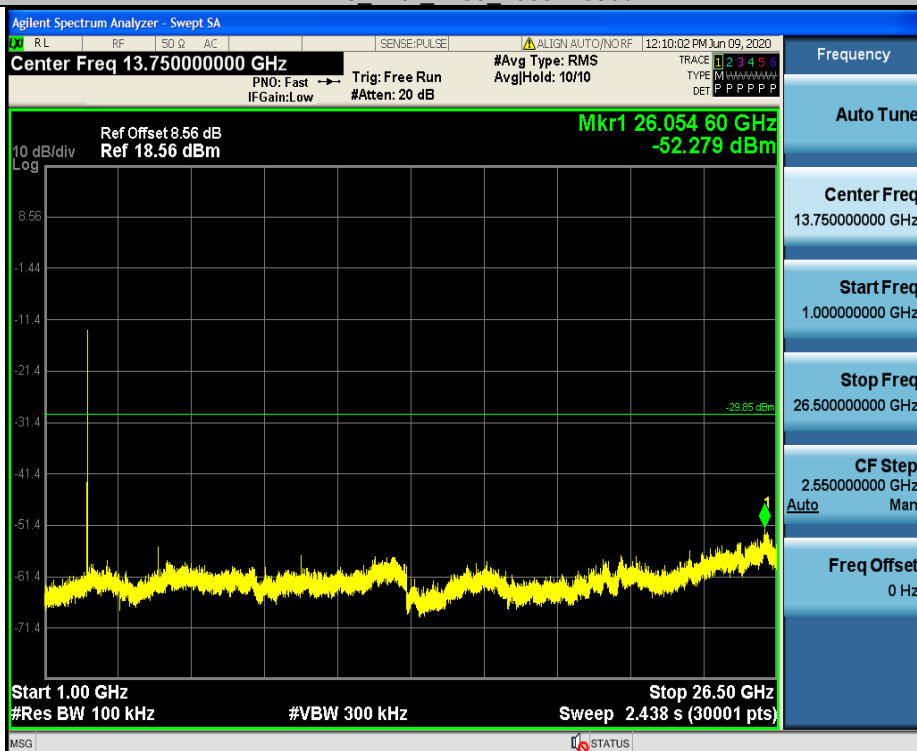
2DH5 Ant1 2480 0-Reference



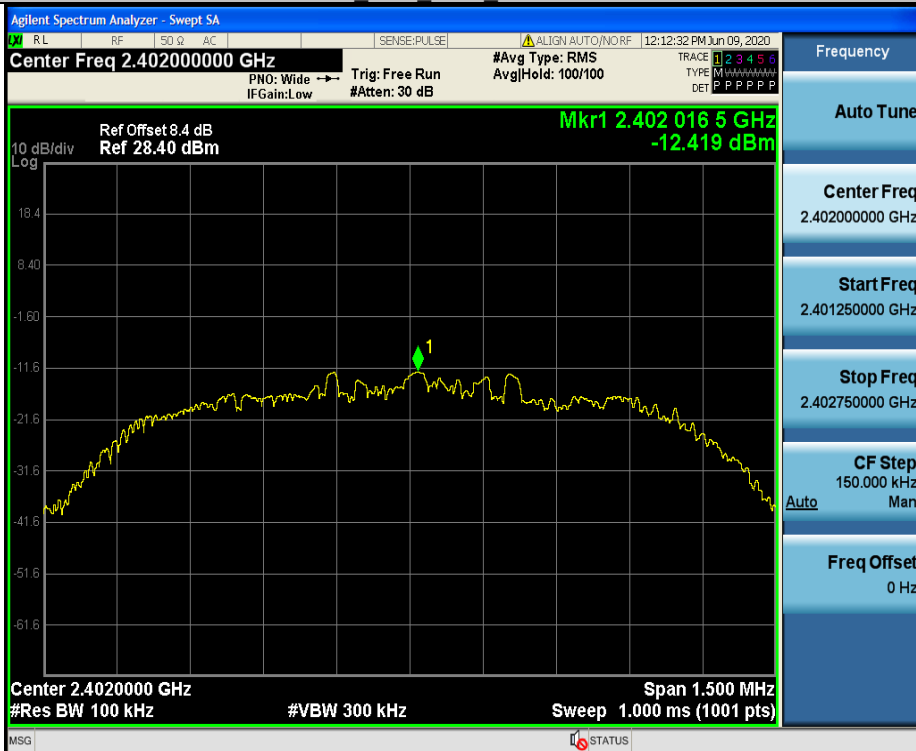
2DH5_Ant1_2480_30~1000



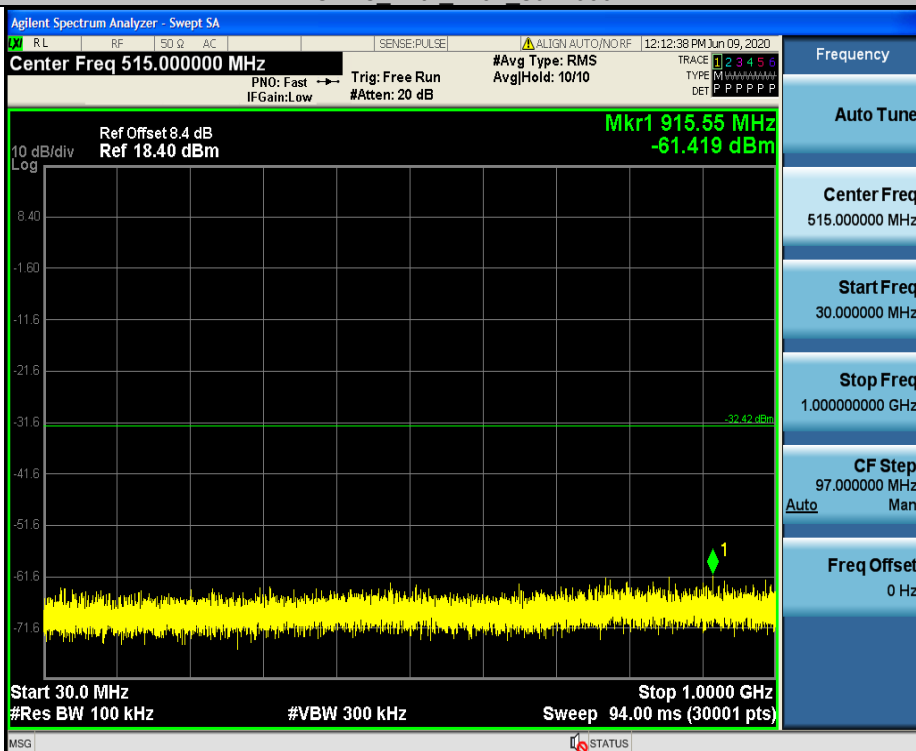
2DH5_Ant1_2480_1000~26500



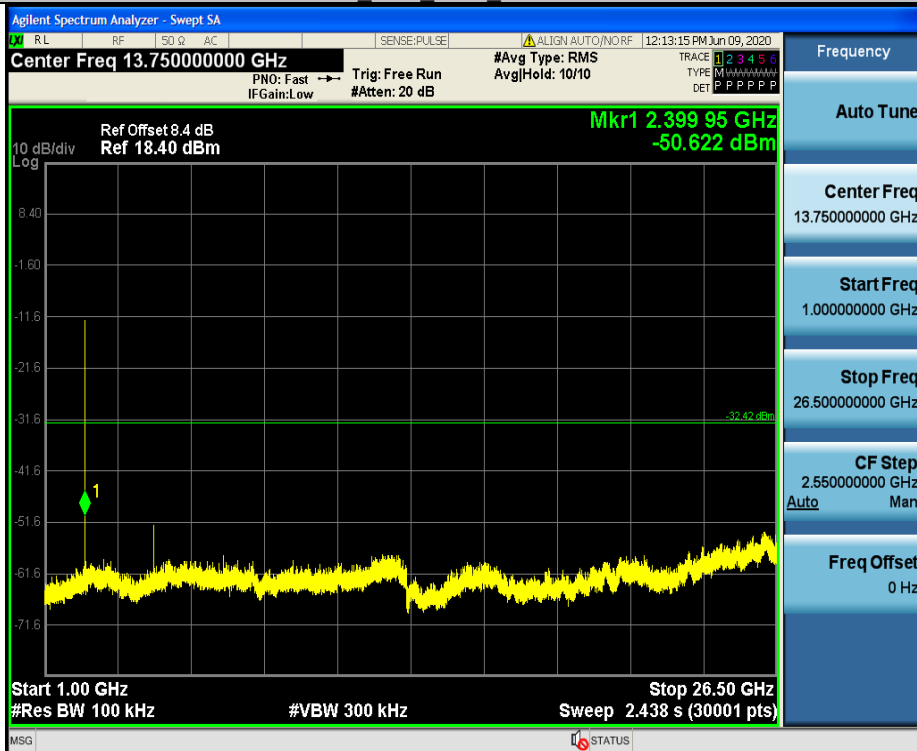
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



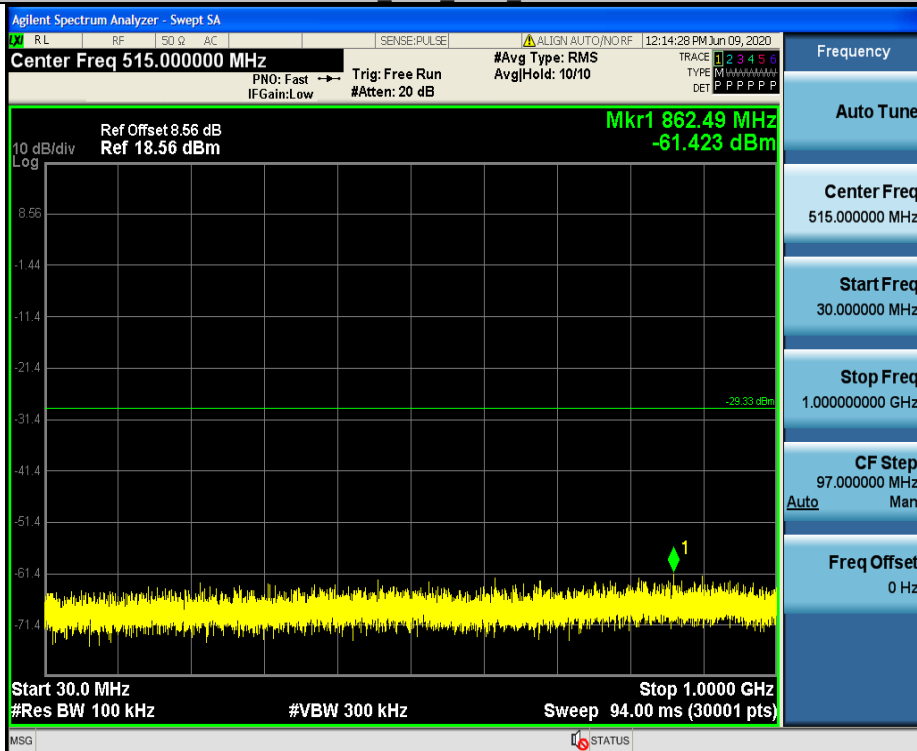
3DH5_Ant1_2402_1000-26500



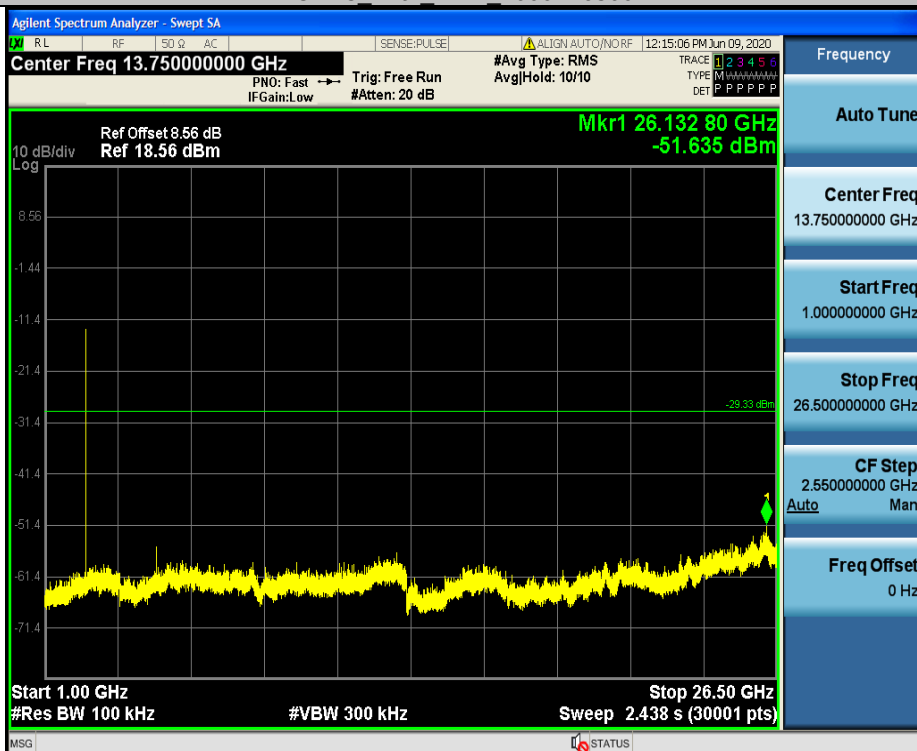
3DH5_Ant1_2441_0-Reference



3DH5_Ant1_2441_30~1000



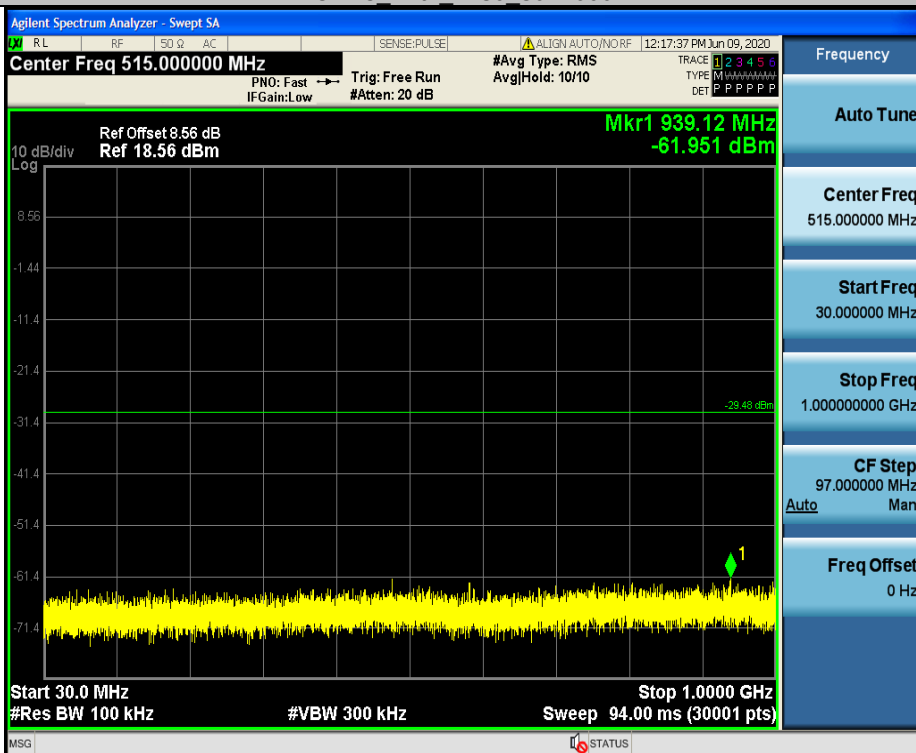
3DH5_Ant1_2441_1000~26500

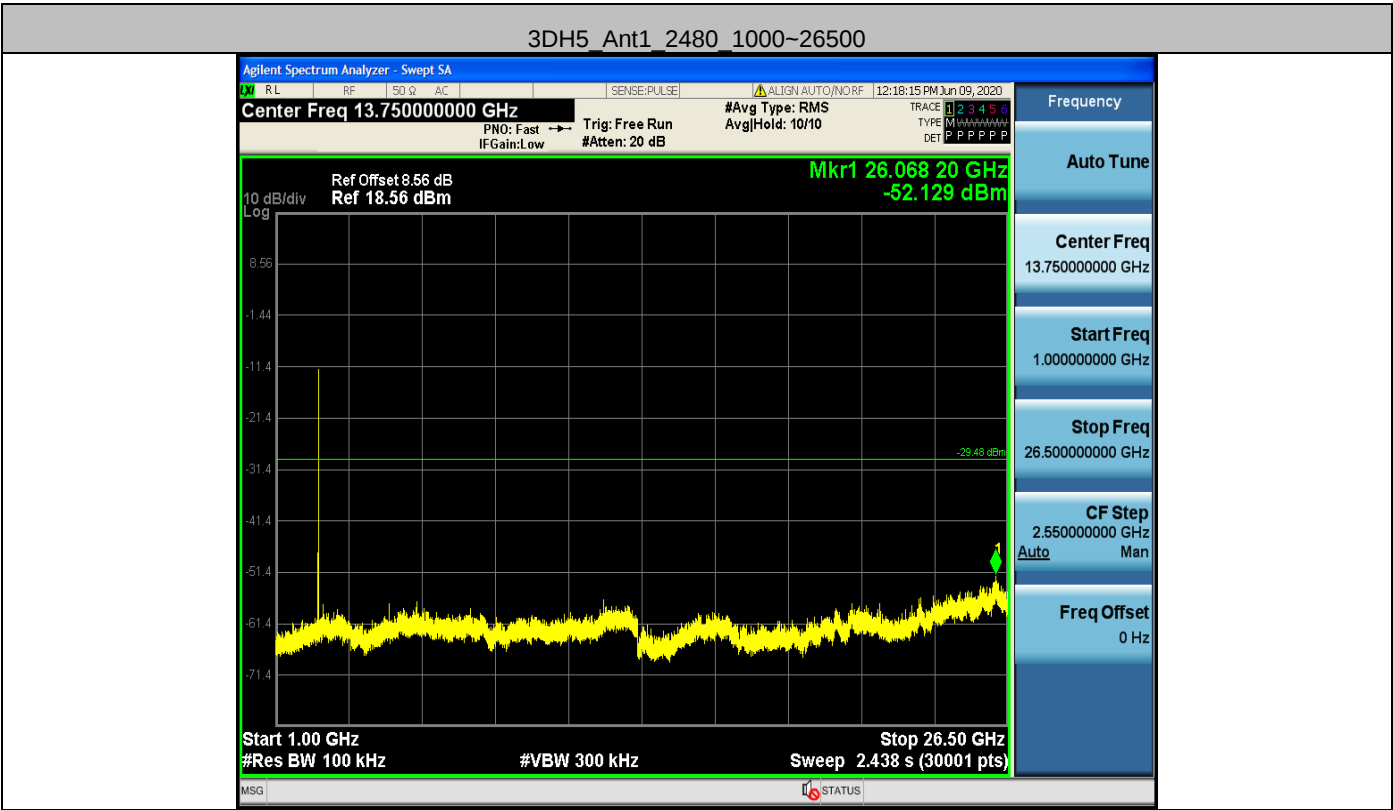


3DH5 Ant1 2480 0~Reference



3DH5 Ant1 2480 30~1000

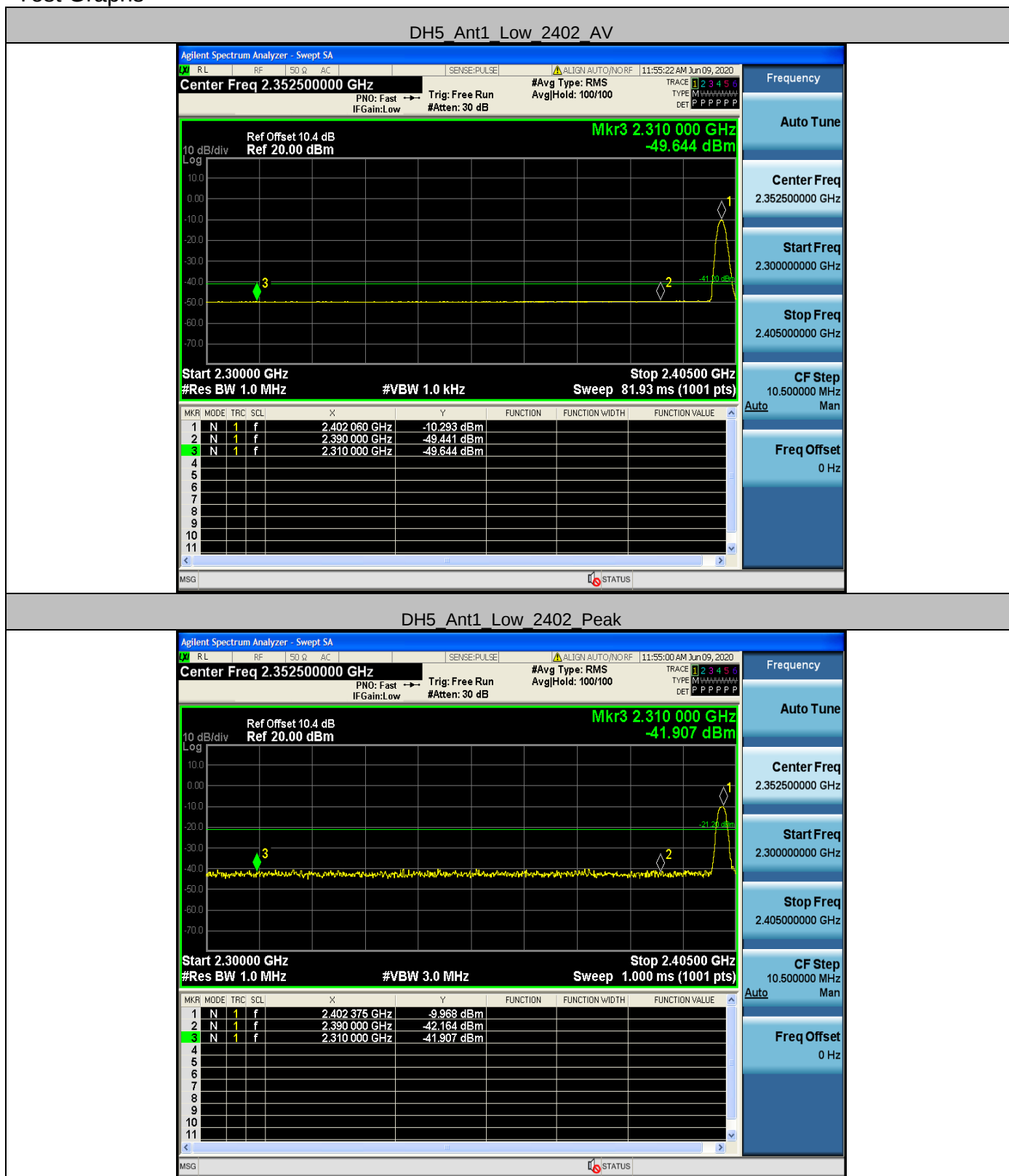




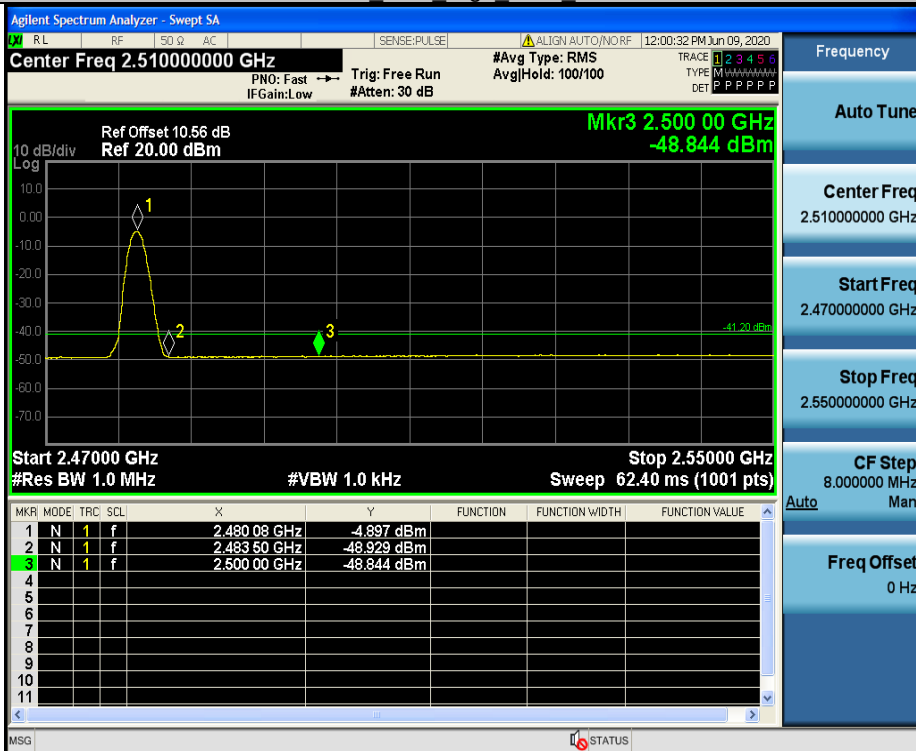
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.64	<=-41.20	PASS
				AV	2390.000	-49.44	<=-41.20	PASS
				Peak	2310.000	-41.91	<=-21.20	PASS
				Peak	2390.000	-42.16	<=-21.20	PASS
		High	2480	AV	2483.500	-48.93	<=-41.20	PASS
				AV	2500.000	-48.84	<=-41.20	PASS
				Peak	2483.500	-41.51	<=-21.20	PASS
				Peak	2500.000	-42.37	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.83	<=-41.20	PASS
				AV	2390.000	-49.43	<=-41.20	PASS
				Peak	2310.000	-41.95	<=-21.20	PASS
				Peak	2390.000	-43.31	<=-21.20	PASS
		High	2480	AV	2483.500	-48.00	<=-41.20	PASS
				AV	2500.000	-48.81	<=-41.20	PASS
				Peak	2483.500	-40.58	<=-21.20	PASS
				Peak	2500.000	-43.26	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.94	<=-41.20	PASS
				AV	2390.000	-49.61	<=-41.20	PASS
				Peak	2310.000	-42.66	<=-21.20	PASS
				Peak	2390.000	-40.82	<=-21.20	PASS
		High	2480	AV	2483.500	-48.10	<=-41.20	PASS
				AV	2500.000	-48.85	<=-41.20	PASS
				Peak	2483.500	-40.64	<=-21.20	PASS
				Peak	2500.000	-42.99	<=-21.20	PASS

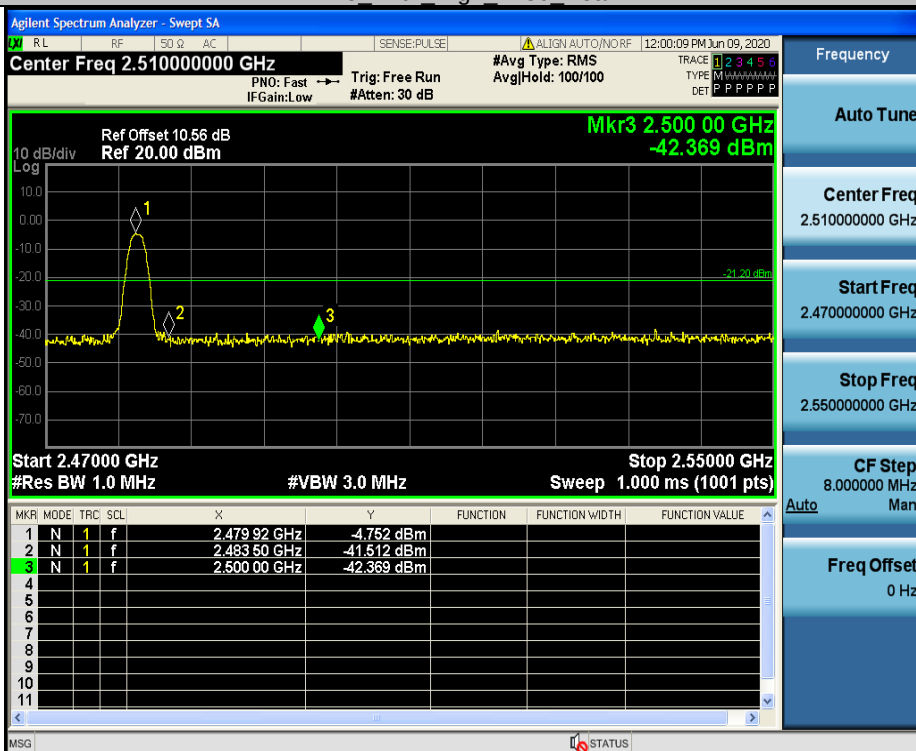
Test Graphs



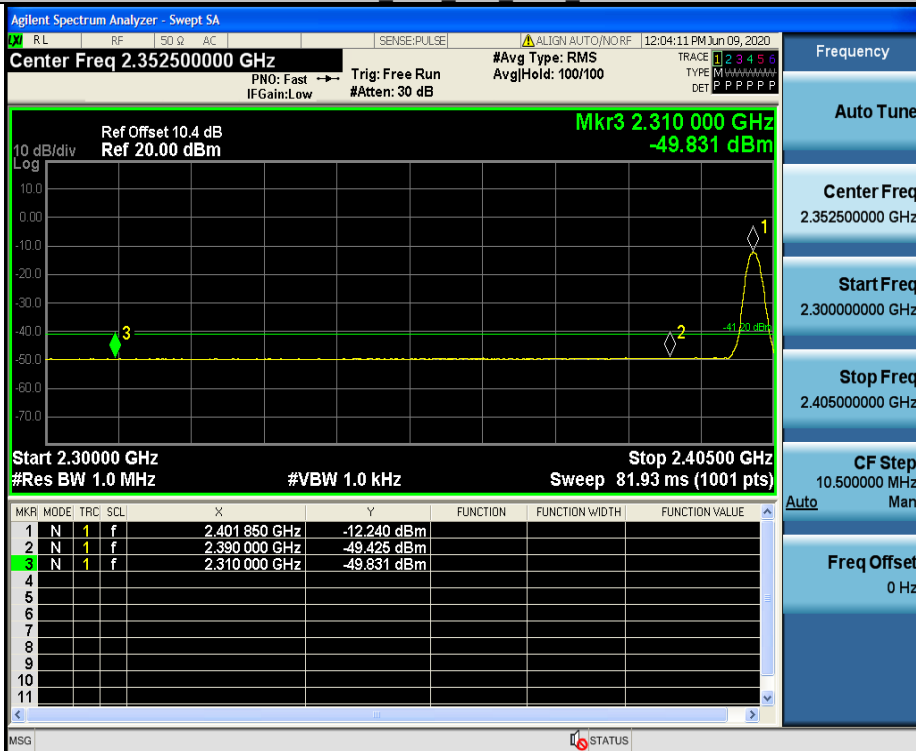
DH5 Ant1 High 2480 AV



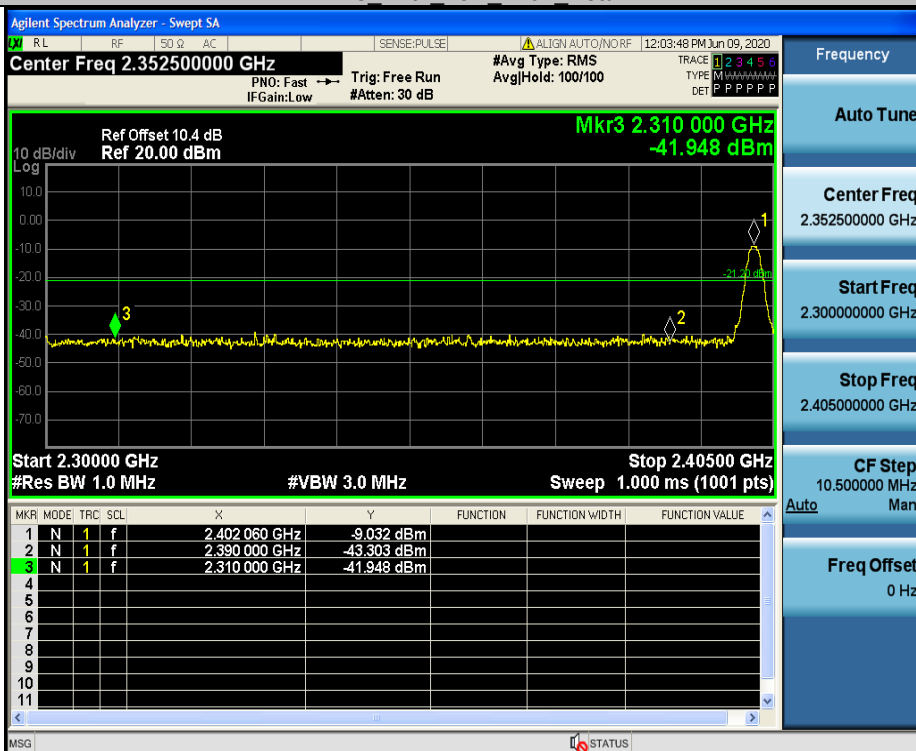
DH5 Ant1 High 2480 Peak

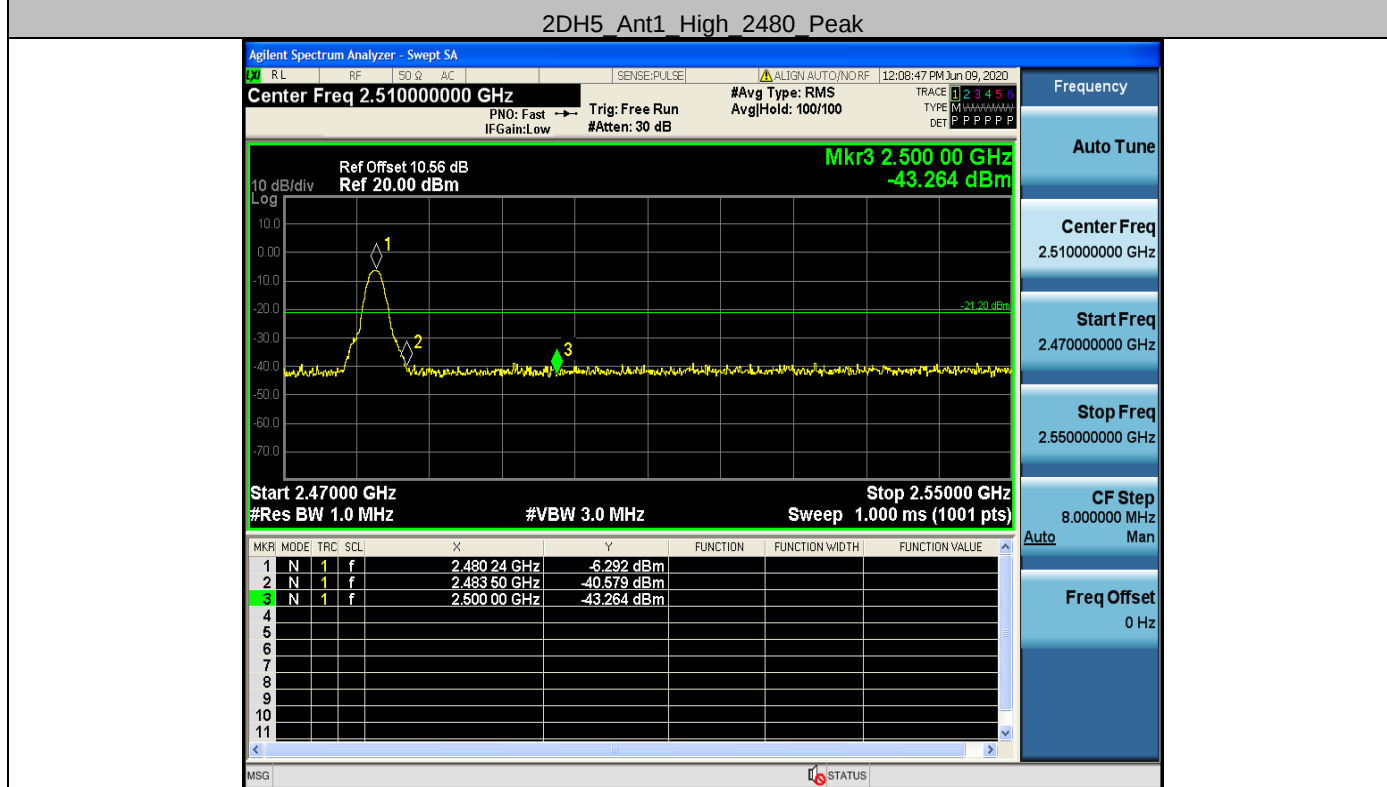
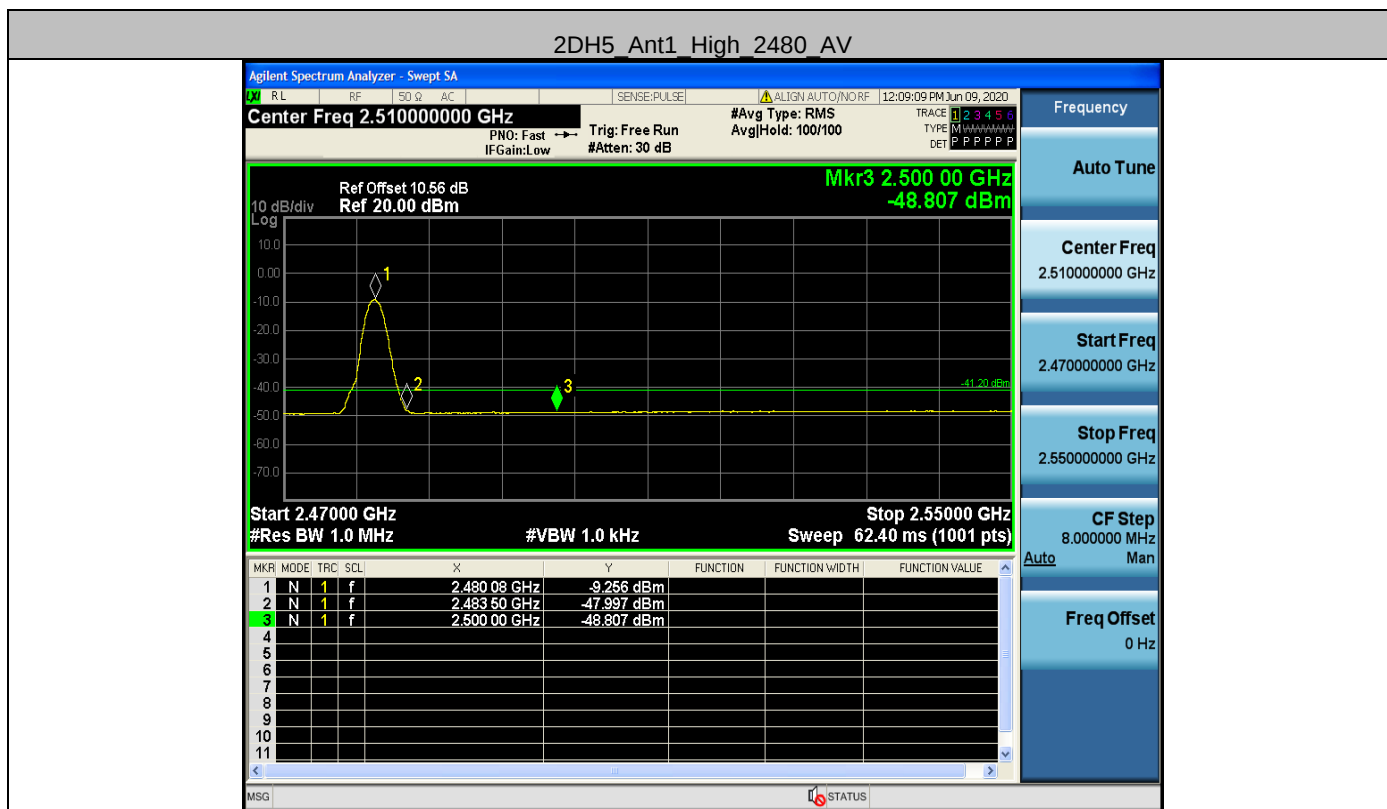


2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak

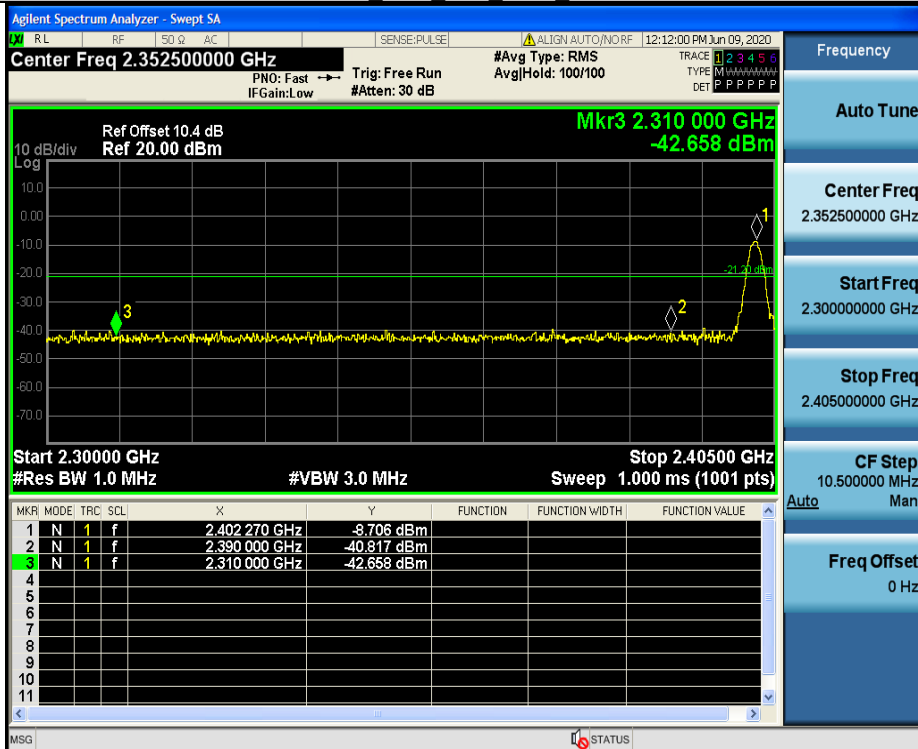




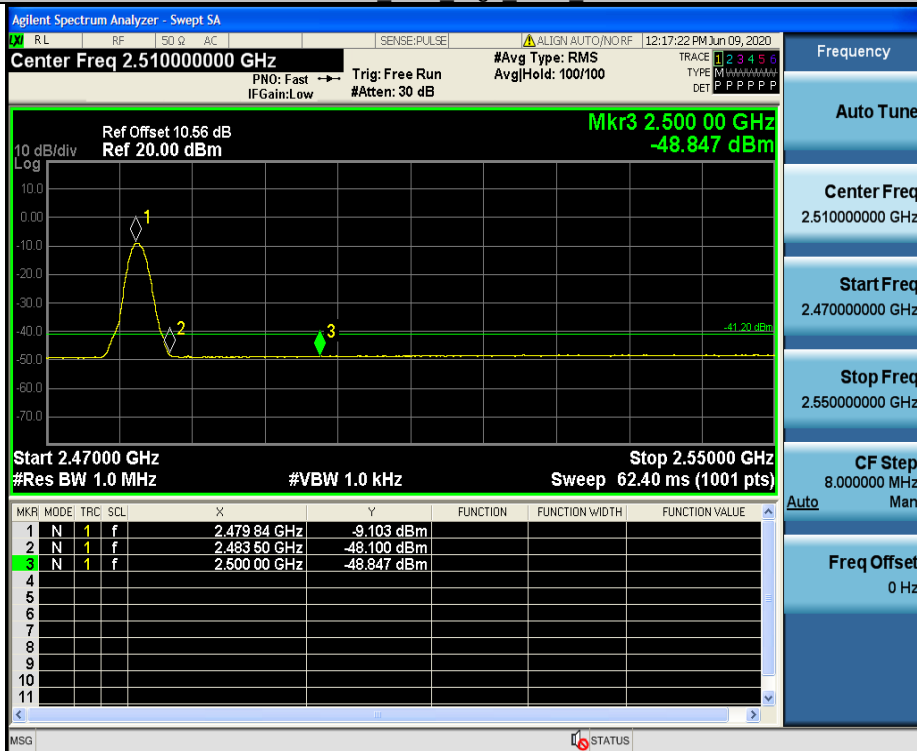
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

