

Appendix A

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

Product Name: NucBox2
Trade Mark: GMK
Test Model: KB2
FCC ID: 2AXUD-KB2

Environmental Conditions

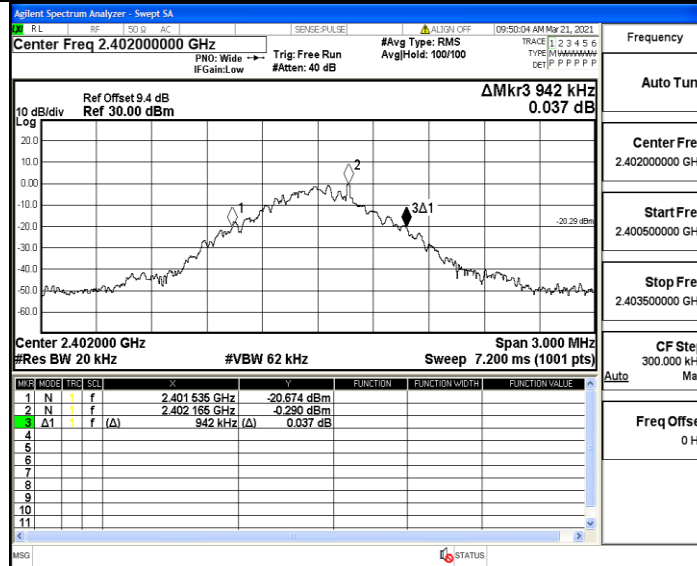
Temperature:	22.8° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

A.1 20 dB Bandwidth

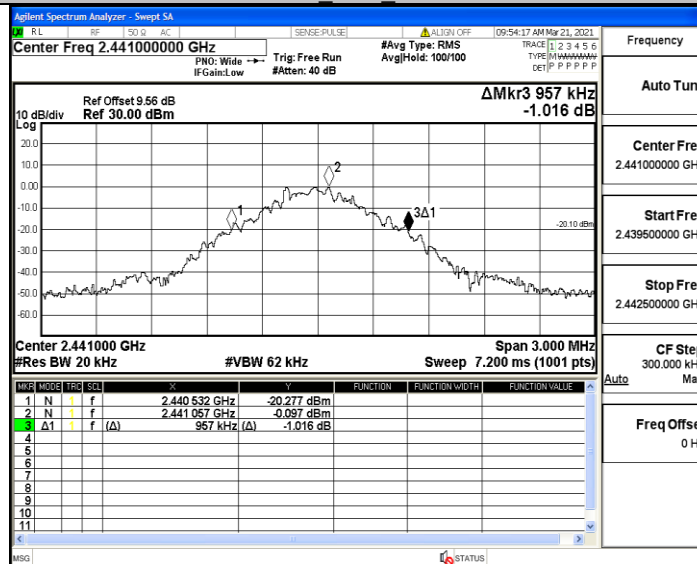
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.535	2402.477	---	PASS
		2441	0.957	2440.532	2441.489	---	PASS
		2480	0.951	2479.532	2480.483	---	PASS
2DH5	Ant1	2402	1.314	2401.340	2402.654	---	PASS
		2441	1.317	2440.337	2441.654	---	PASS
		2480	1.320	2479.334	2480.654	---	PASS
3DH5	Ant1	2402	1.320	2401.328	2402.648	---	PASS
		2441	1.275	2440.346	2441.621	---	PASS
		2480	1.293	2479.334	2480.627	---	PASS

Test Graph

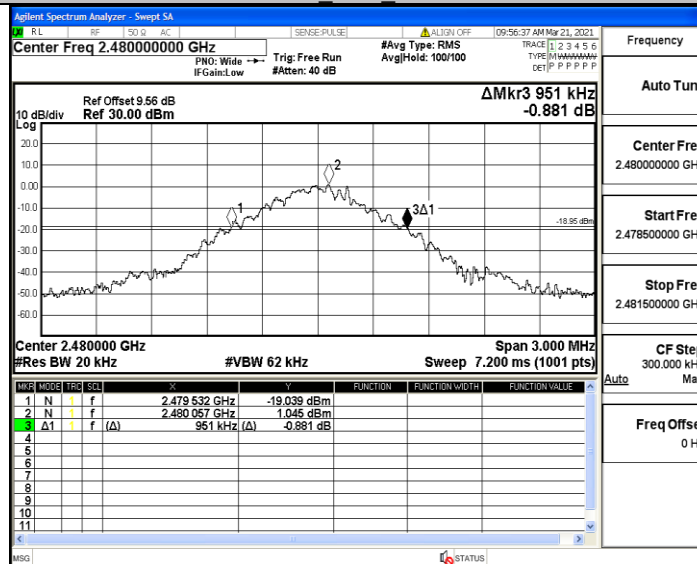
DH5_Ant1_2402



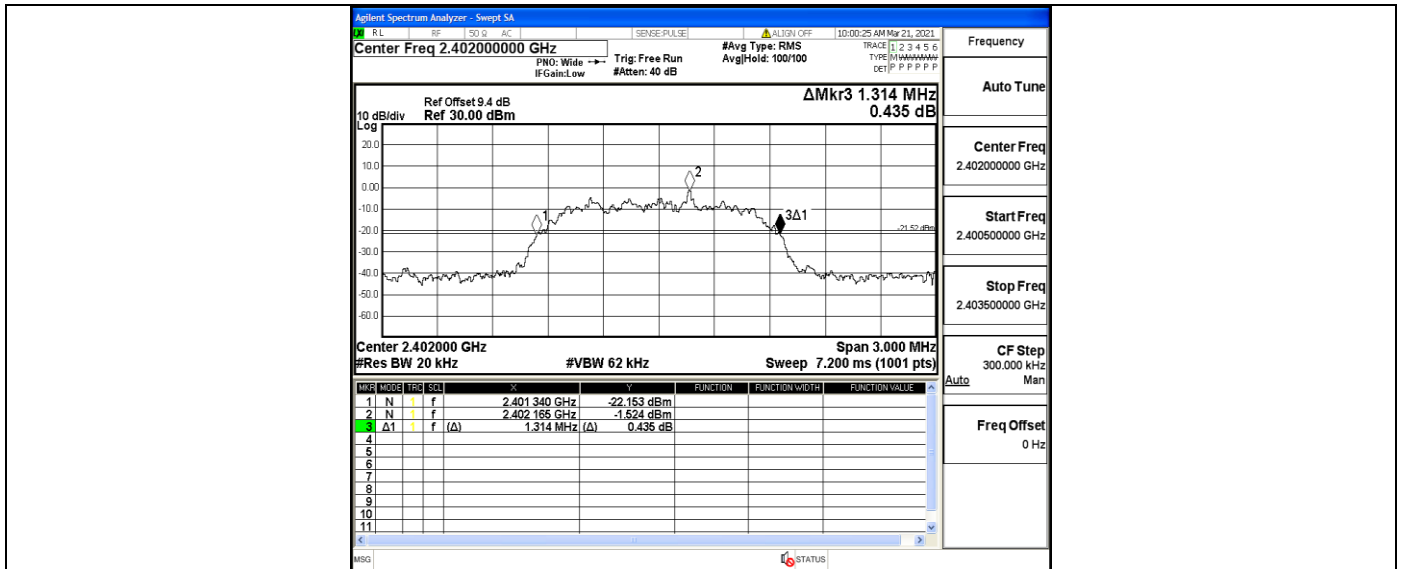
DH5_Ant1_2441



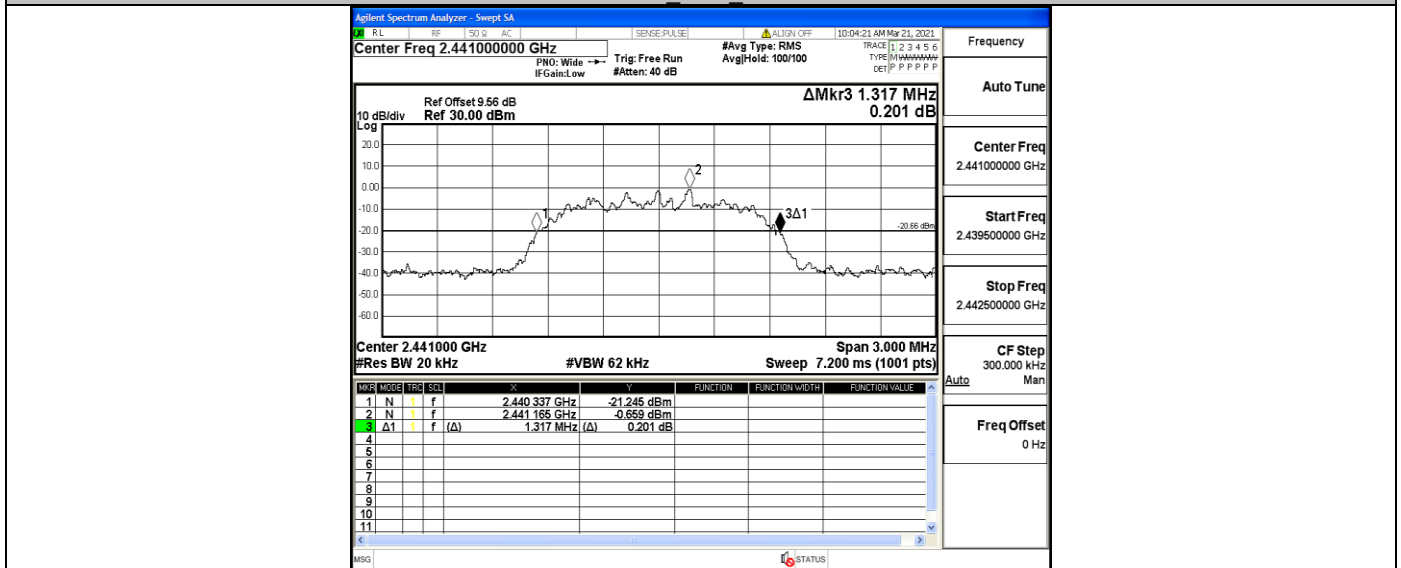
DH5_Ant1_2480



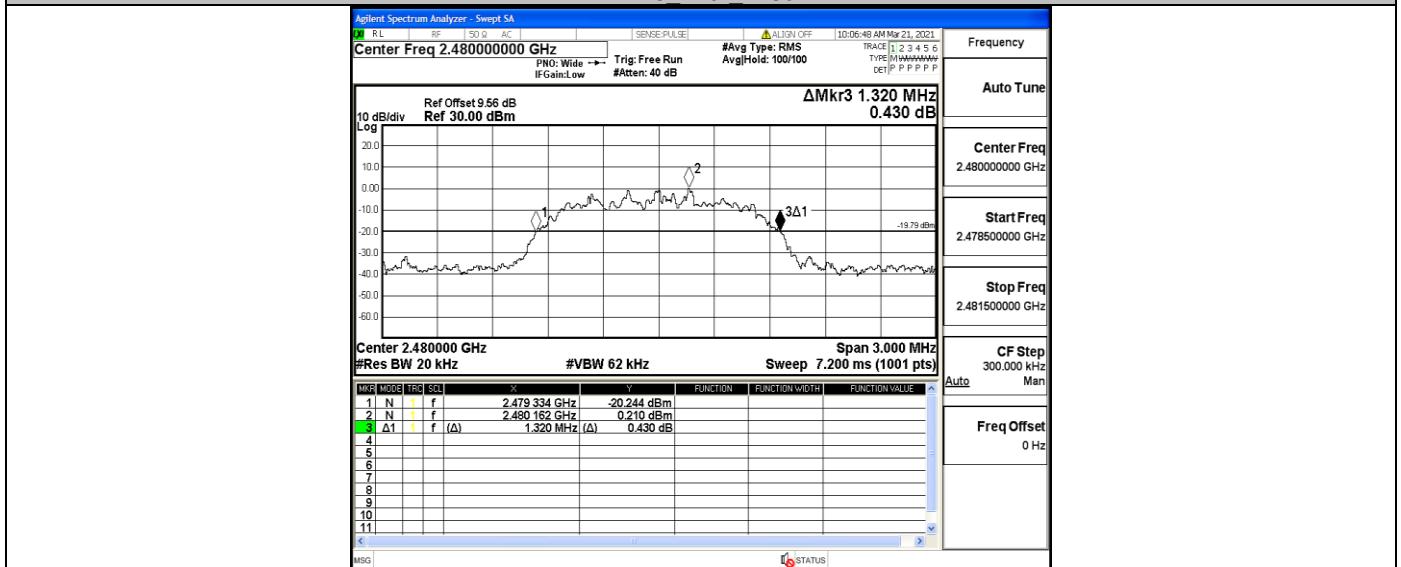
2DH5_Ant1_2402



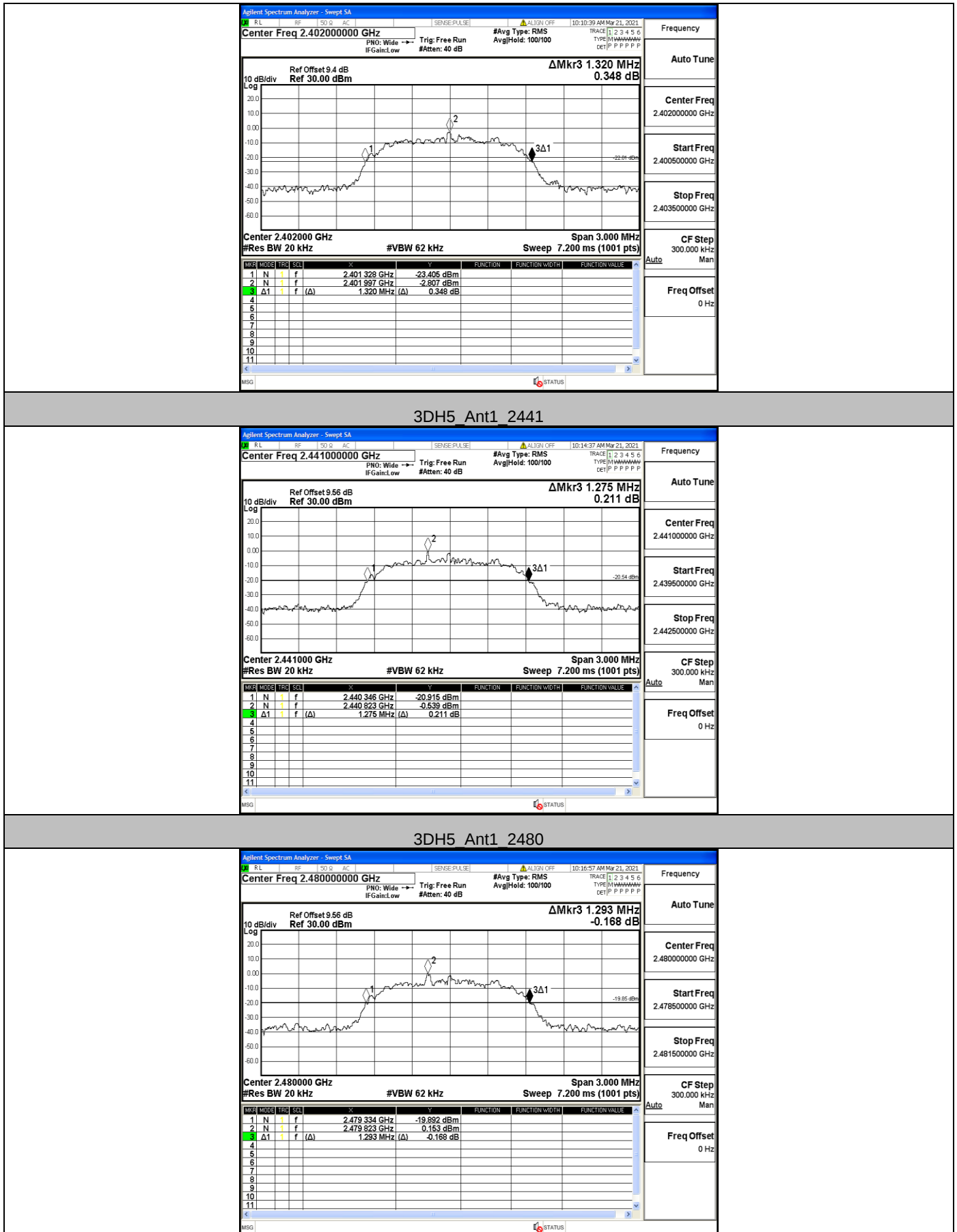
2DH5 Ant1 2441



2DH5 Ant1 2480



3DH5 Ant1 2402

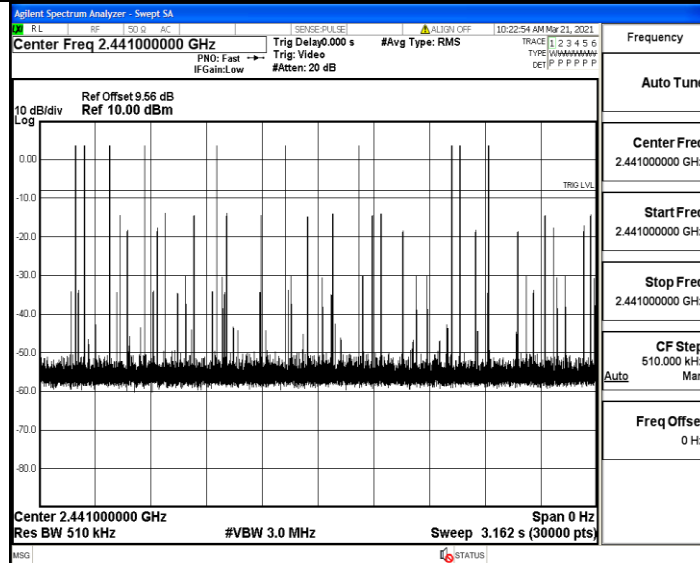
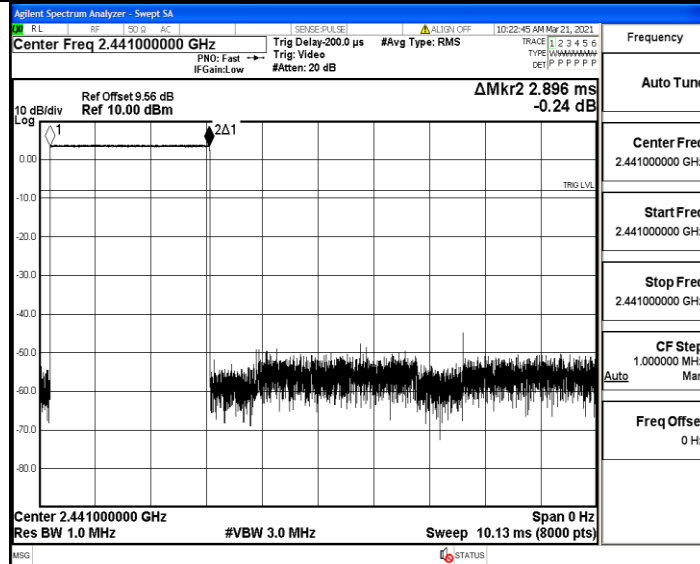


A.2 Dwell Time

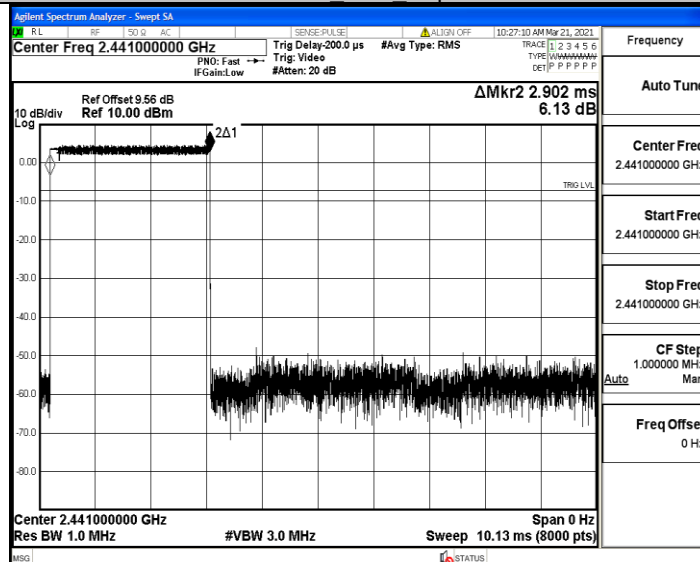
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.90	110	0.319	<=0.4	PASS
2DH5	Ant1	Hop	2.90	110	0.319	<=0.4	PASS
3DH5	Ant1	Hop	2.90	100	0.29	<=0.4	PASS

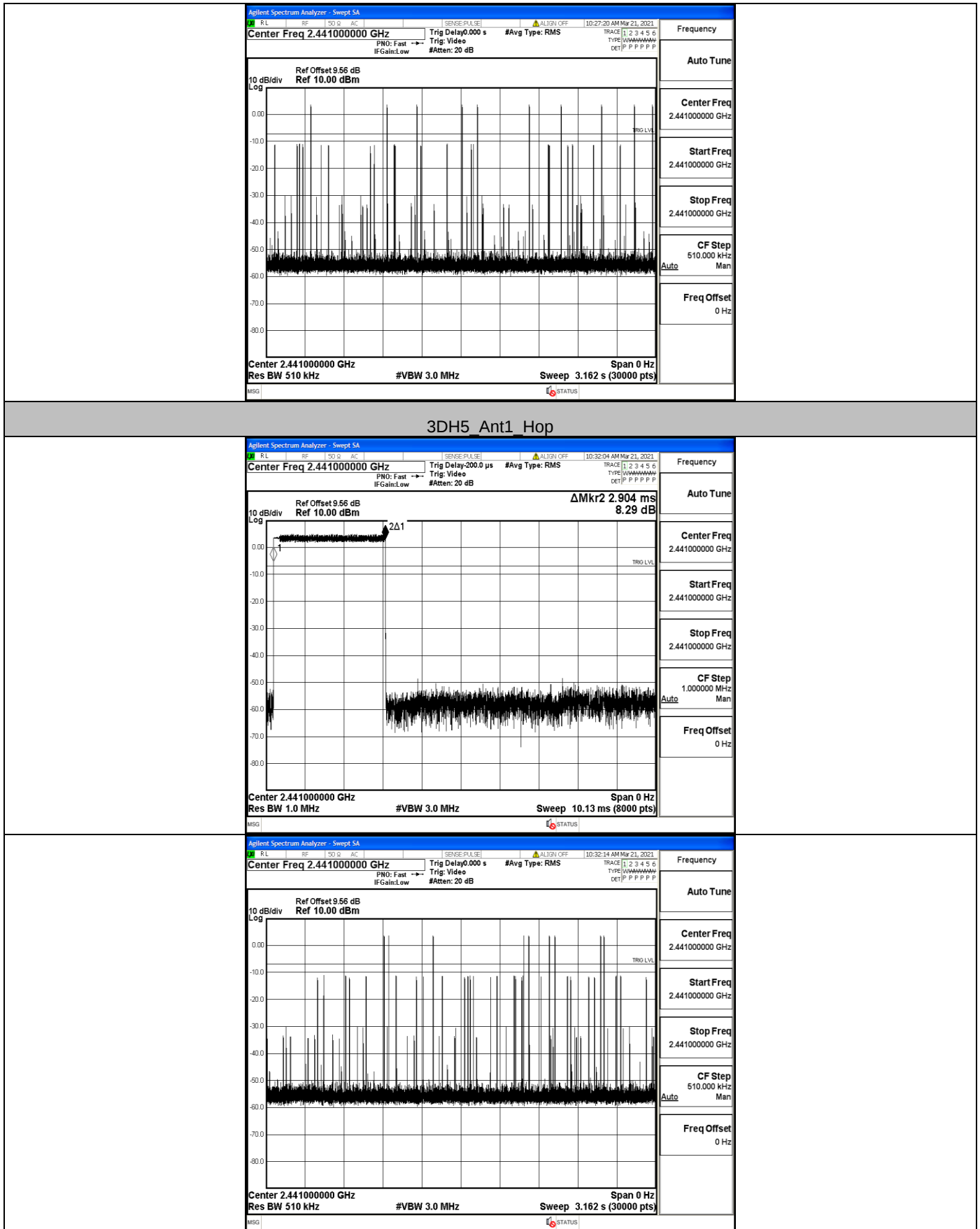
Test Graph

DH5_Ant1_Hop



2DH5_Ant1_Hop



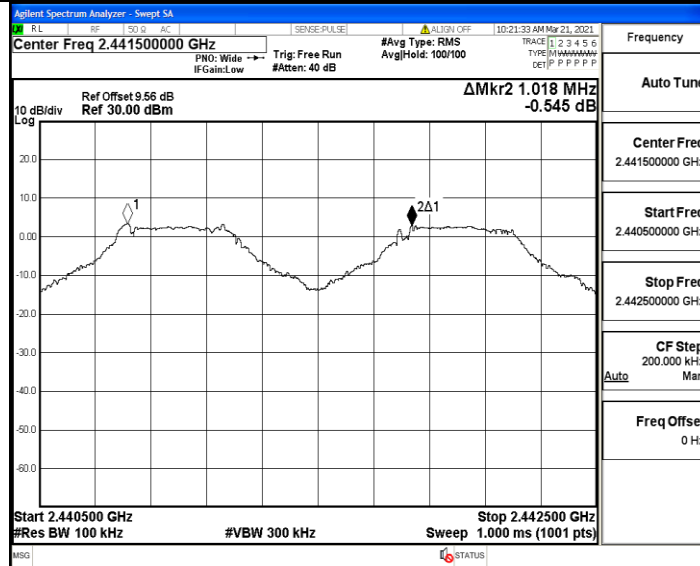


A.3 Carrier Frequency Separation

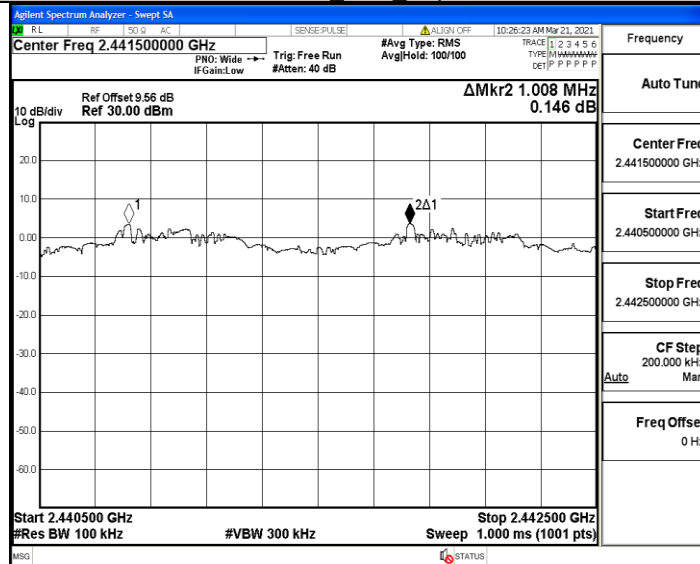
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.018	≥ 0.807	PASS
2DH5	Ant1	Hop	1.008	≥ 0.868	PASS
3DH5	Ant1	Hop	1.000	≥ 0.864	PASS

Test Graph

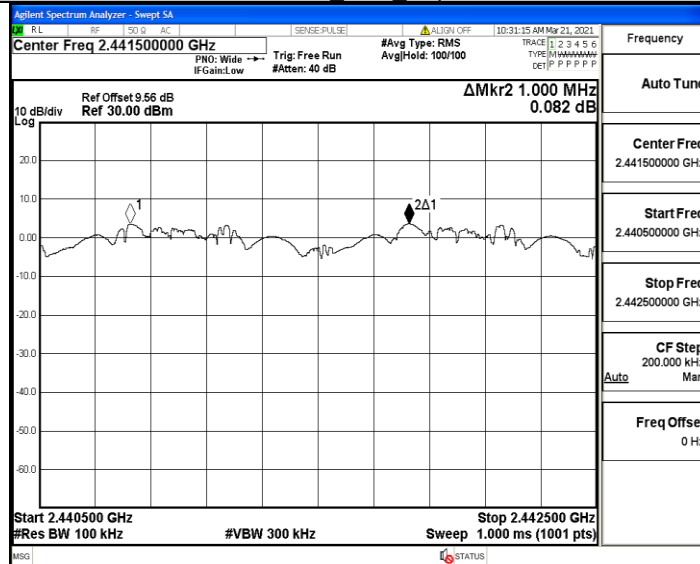
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

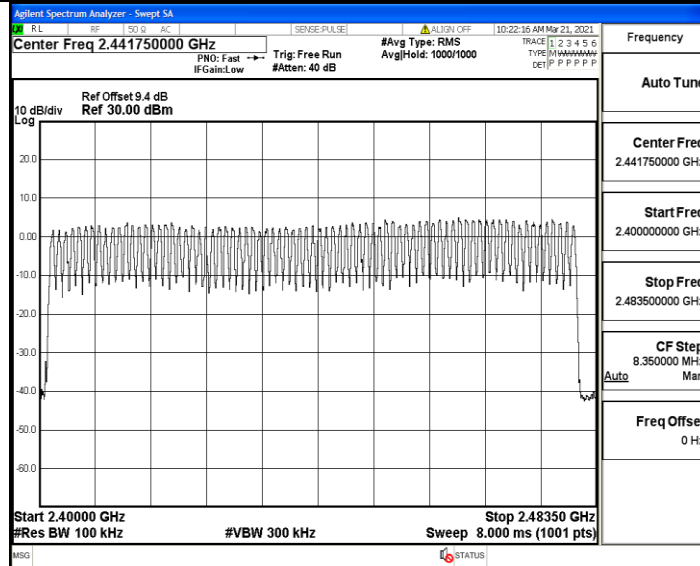


A.4 Hopping Channel Number

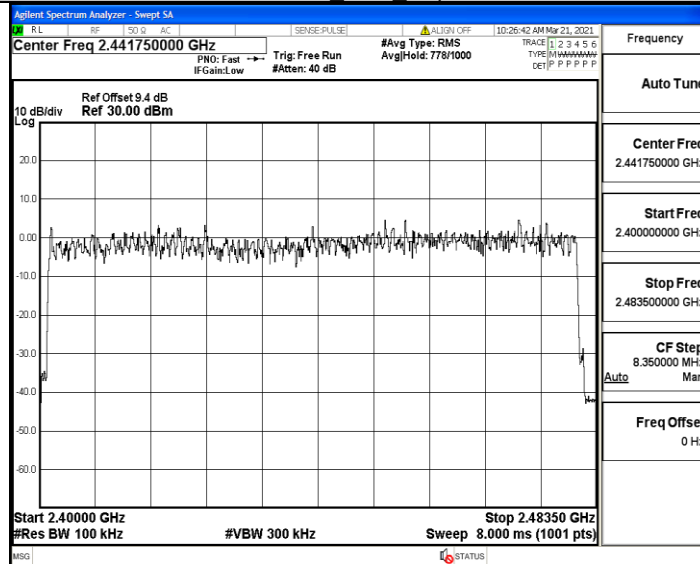
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS

Test Graph

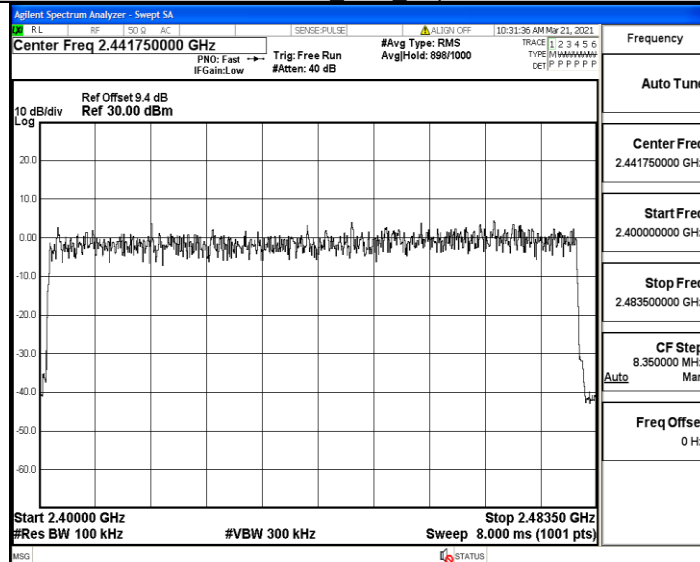
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

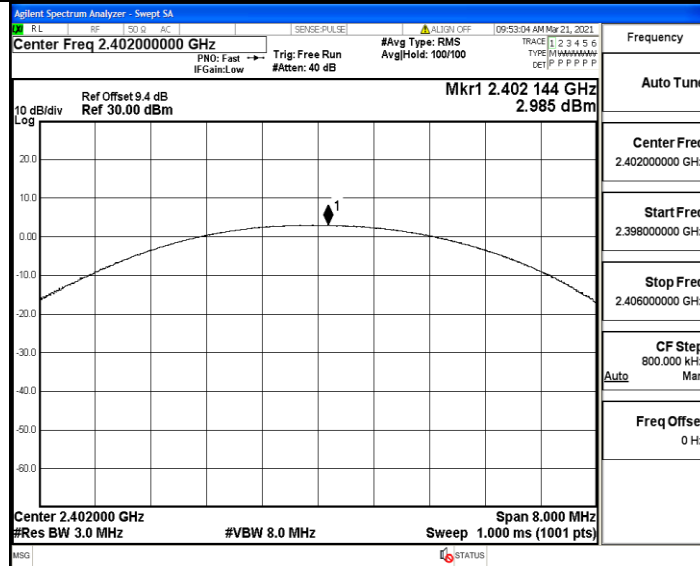


A.5 Conducted Peak Output Power

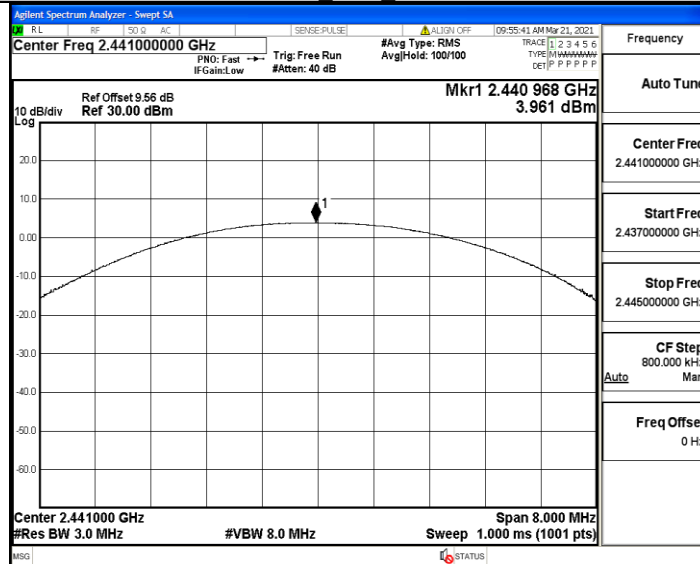
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.99	<=30	PASS
		2441	3.96	<=30	PASS
		2480	5.09	<=30	PASS
2DH5	Ant1	2402	4.39	<=30	PASS
		2441	5.15	<=30	PASS
		2480	6.05	<=30	PASS
3DH5	Ant1	2402	4.75	<=30	PASS
		2441	5.63	<=30	PASS
		2480	6.56	<=30	PASS

Test Graph

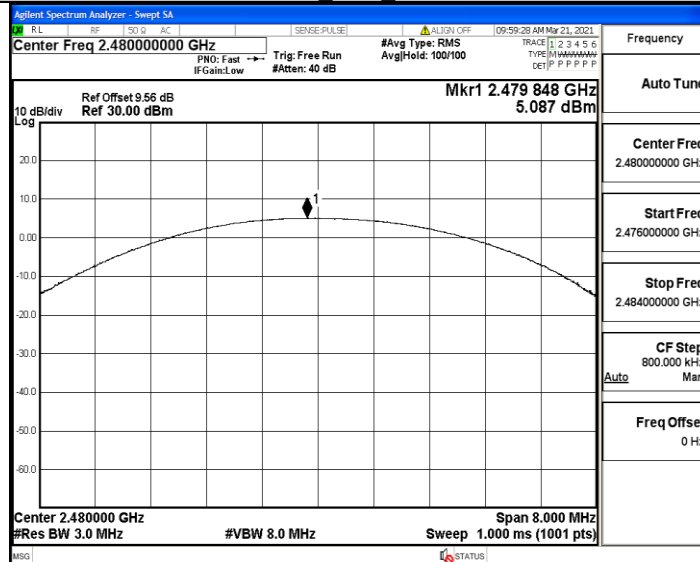
DH5_Ant1_2402



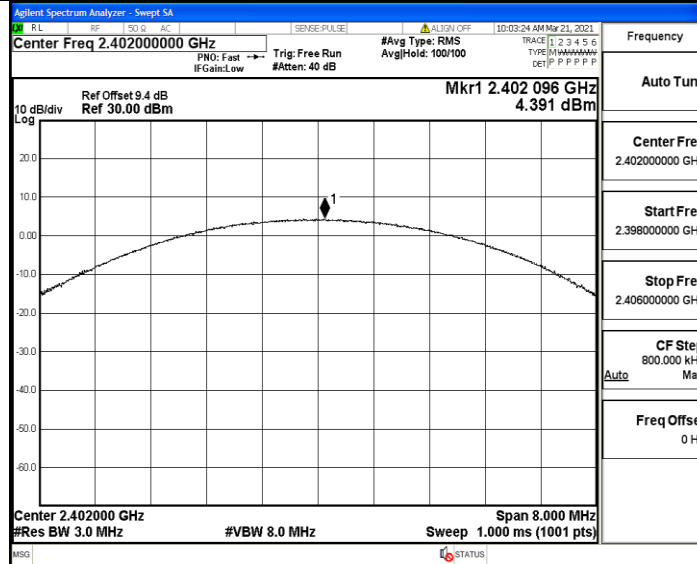
DH5_Ant1_2441



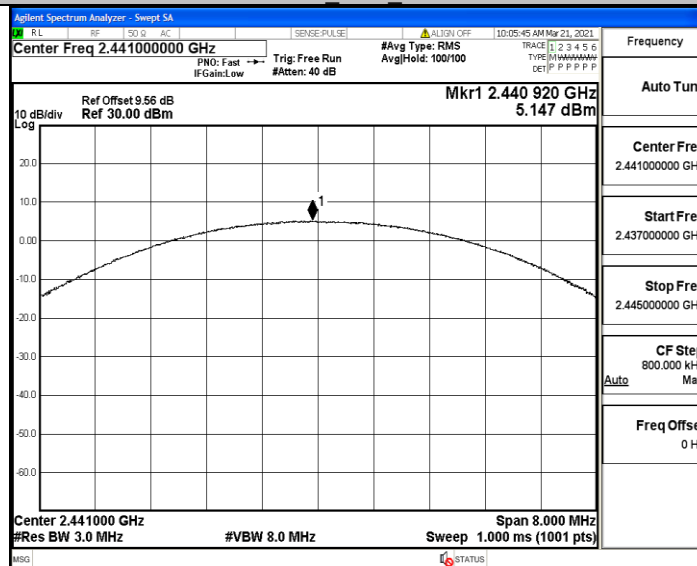
DH5_Ant1_2480



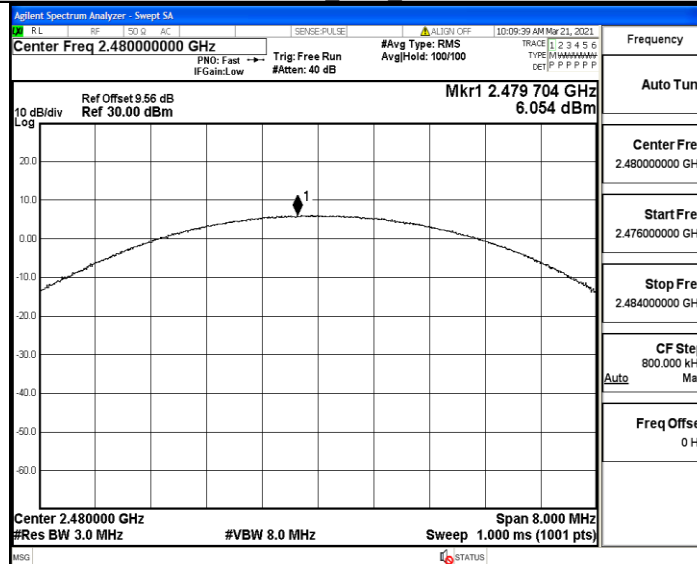
2DH5_Ant1_2402



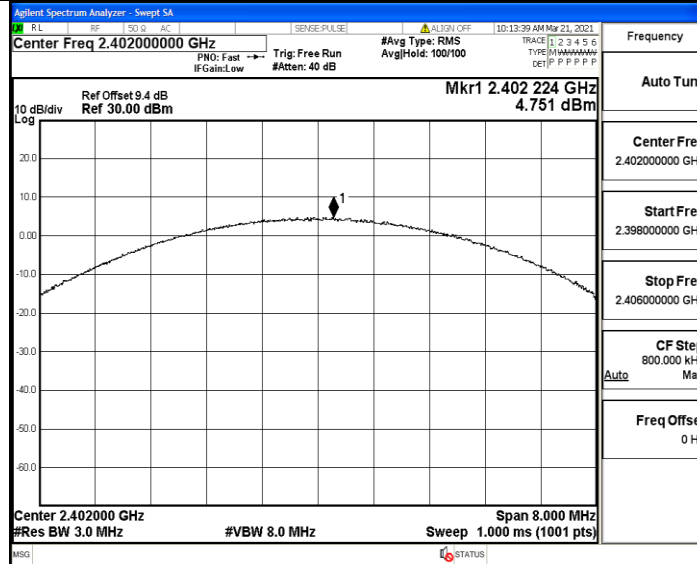
2DH5_Ant1_2441



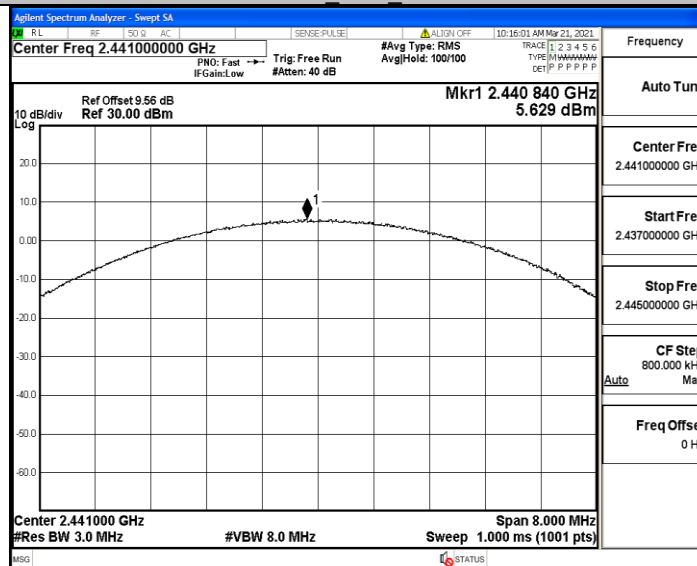
2DH5_Ant1_2480



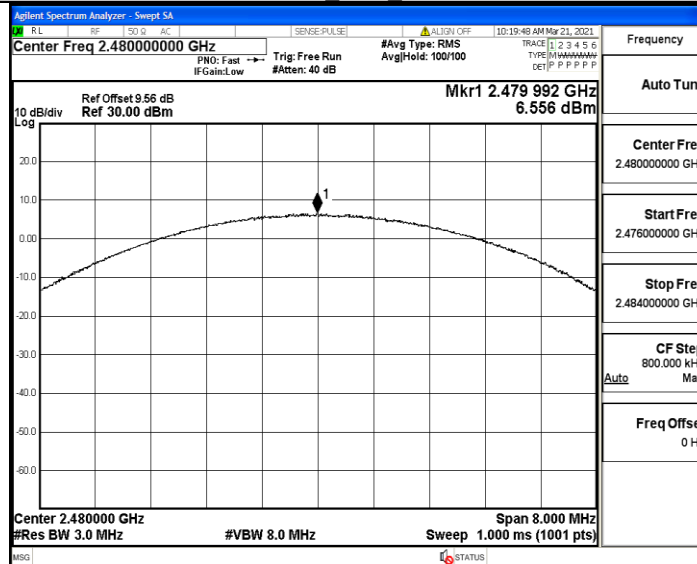
3DH5_Ant1_2402



3DH5 Ant1 2441



3DH5 Ant1 2480

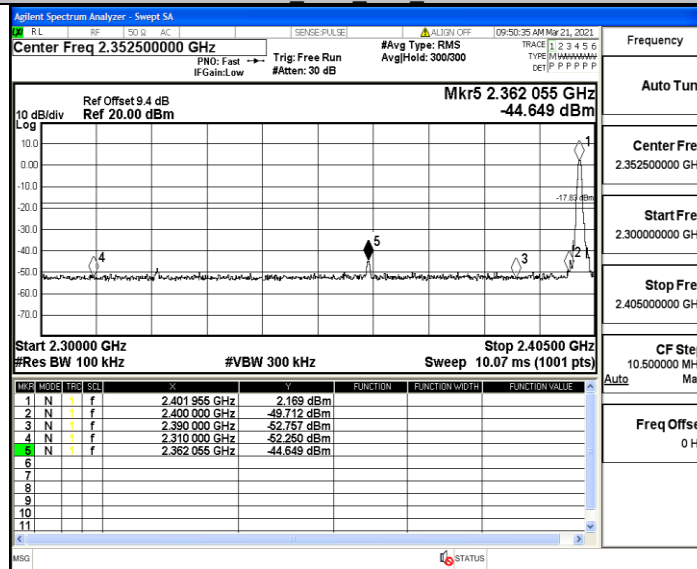


A.6 Band-edge for RF Conducted Emissions

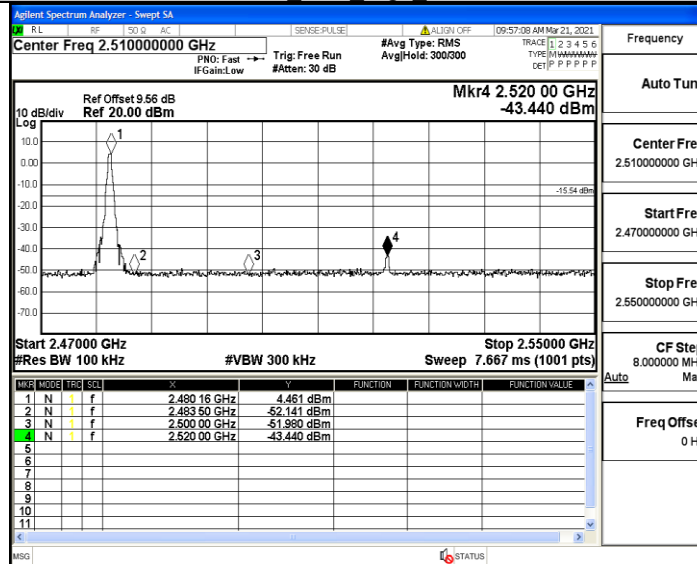
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.17	-44.65	<=-17.83	PASS
		High	2480	4.46	-43.44	<=-15.54	PASS
		Low	Hop_2402	2.27	-45.22	<=-17.73	PASS
		High	Hop_2480	4.62	-42.85	<=-15.38	PASS
2DH5	Ant1	Low	2402	2.59	-45.87	<=-17.42	PASS
		High	2480	4.50	-44.58	<=-15.5	PASS
		Low	Hop_2402	1.61	-47.24	<=-18.39	PASS
		High	Hop_2480	4.48	-45.15	<=-15.52	PASS
3DH5	Ant1	Low	2402	2.42	-45.59	<=-17.59	PASS
		High	2480	4.54	-43.44	<=-15.46	PASS
		Low	Hop_2402	1.40	-46.38	<=-18.6	PASS
		High	Hop_2480	4.34	-43.72	<=-15.67	PASS

Test Graph

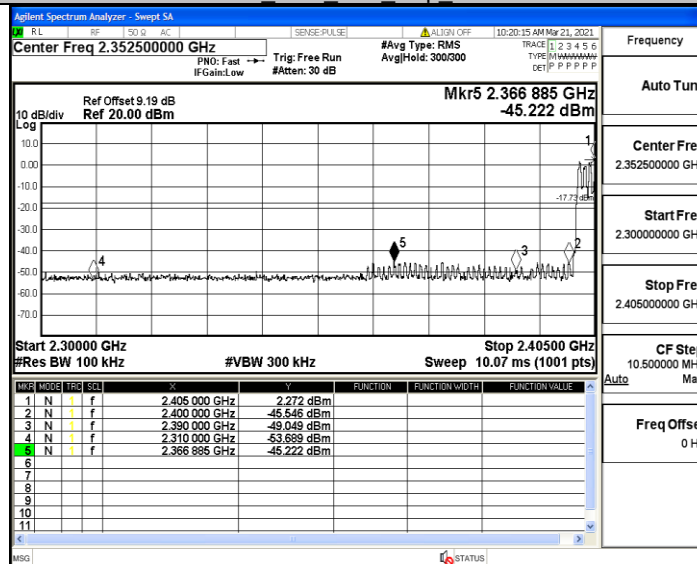
DH5 Ant1 Low 2402



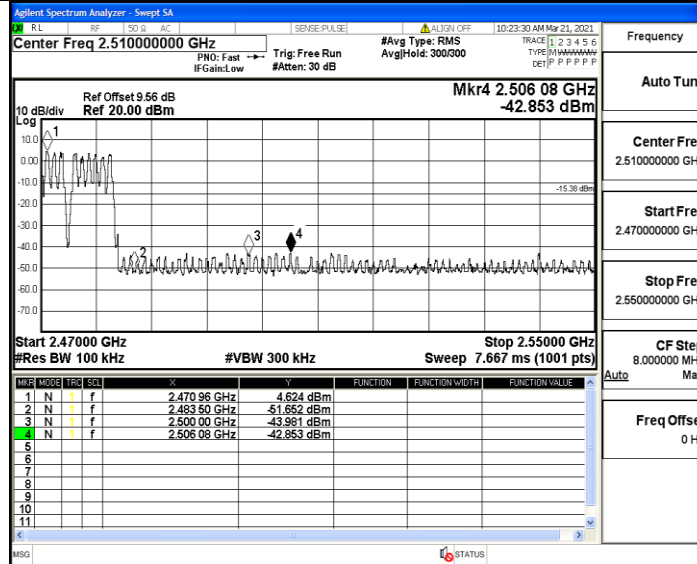
DH5 Ant1 High 2480



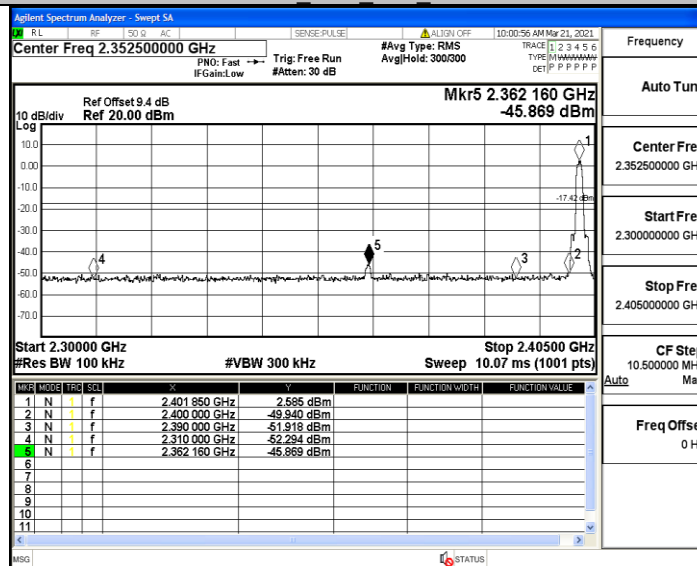
DH5 Ant1 Low Hop 2402



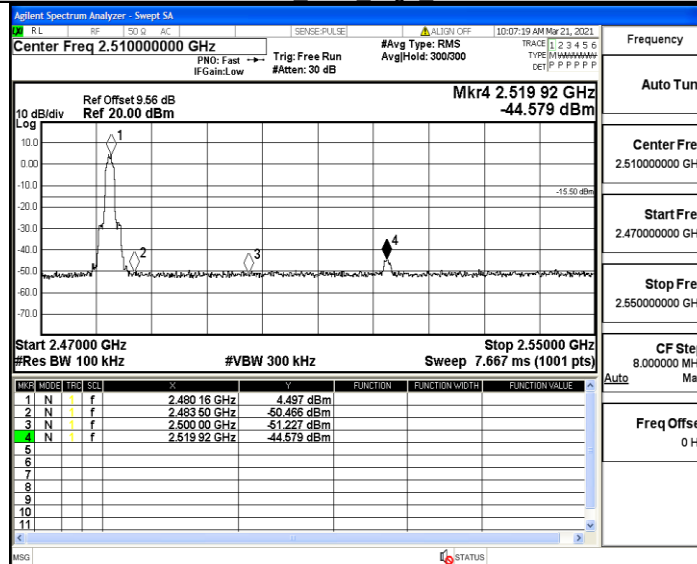
DH5 Ant1 High Hop 2480



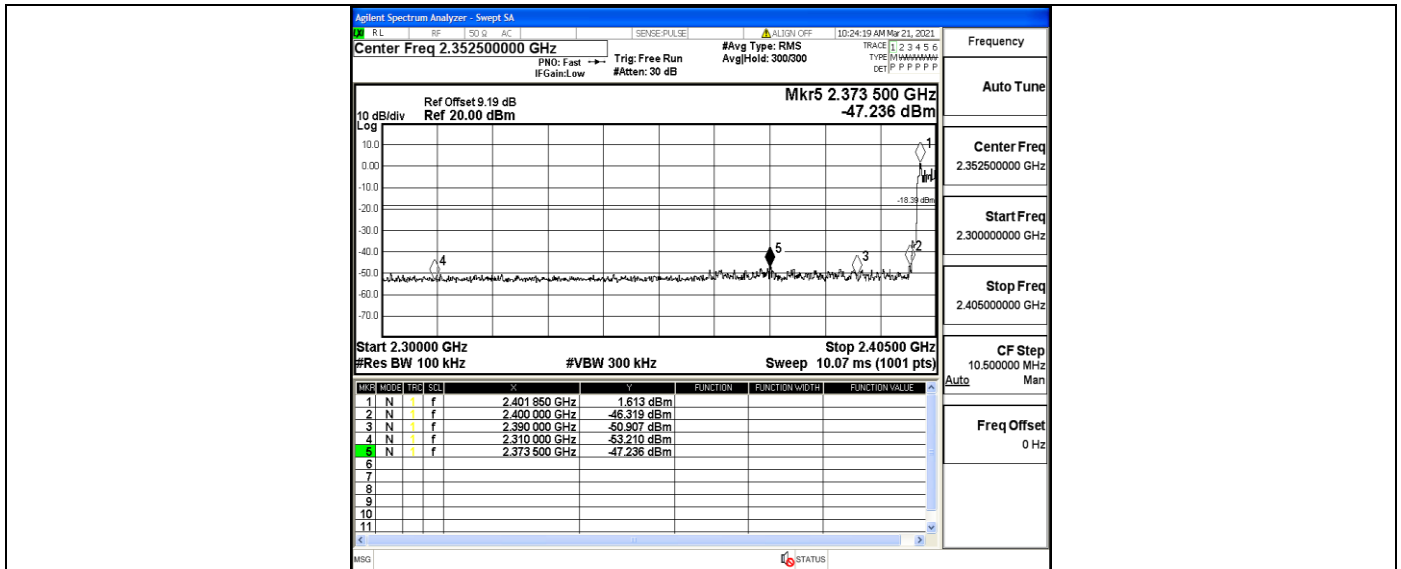
2DH5 Ant1 Low 2402



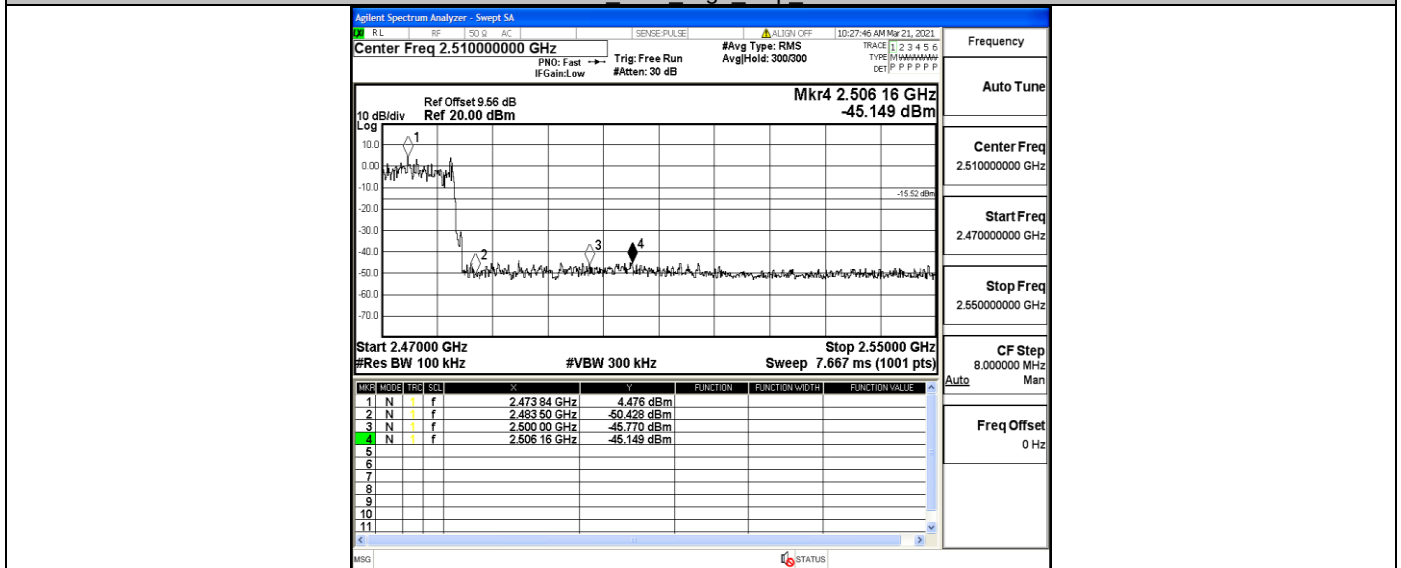
2DH5 Ant1 High 2480



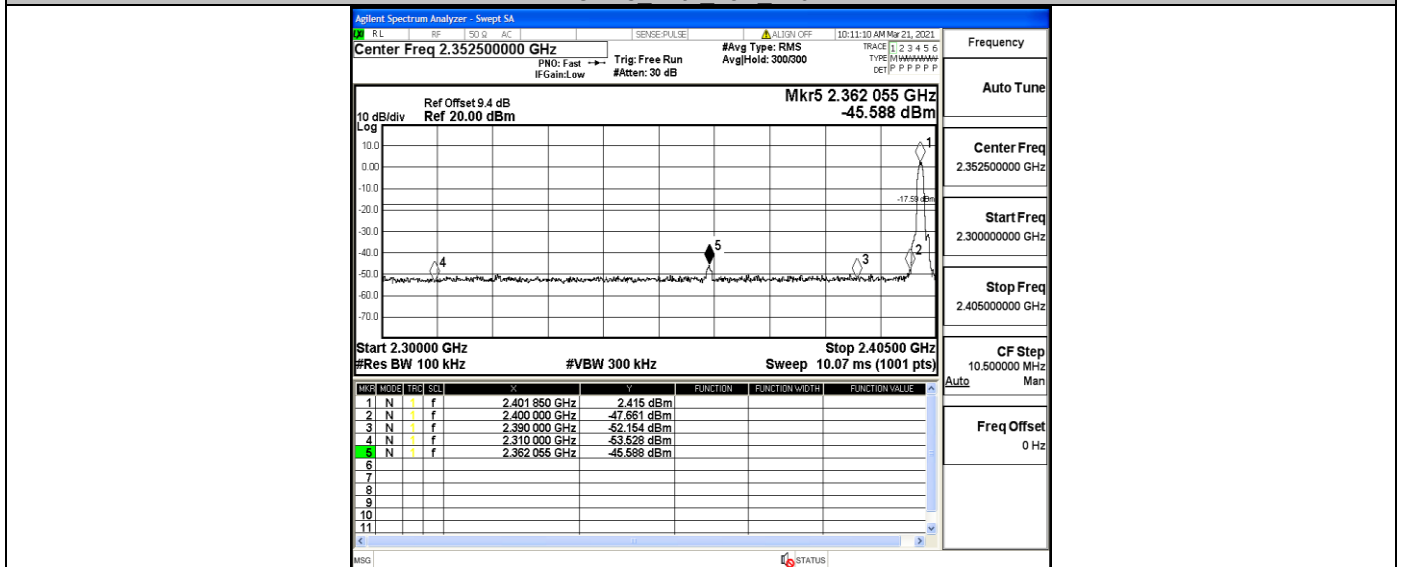
2DH5 Ant1 Low Hop 2402



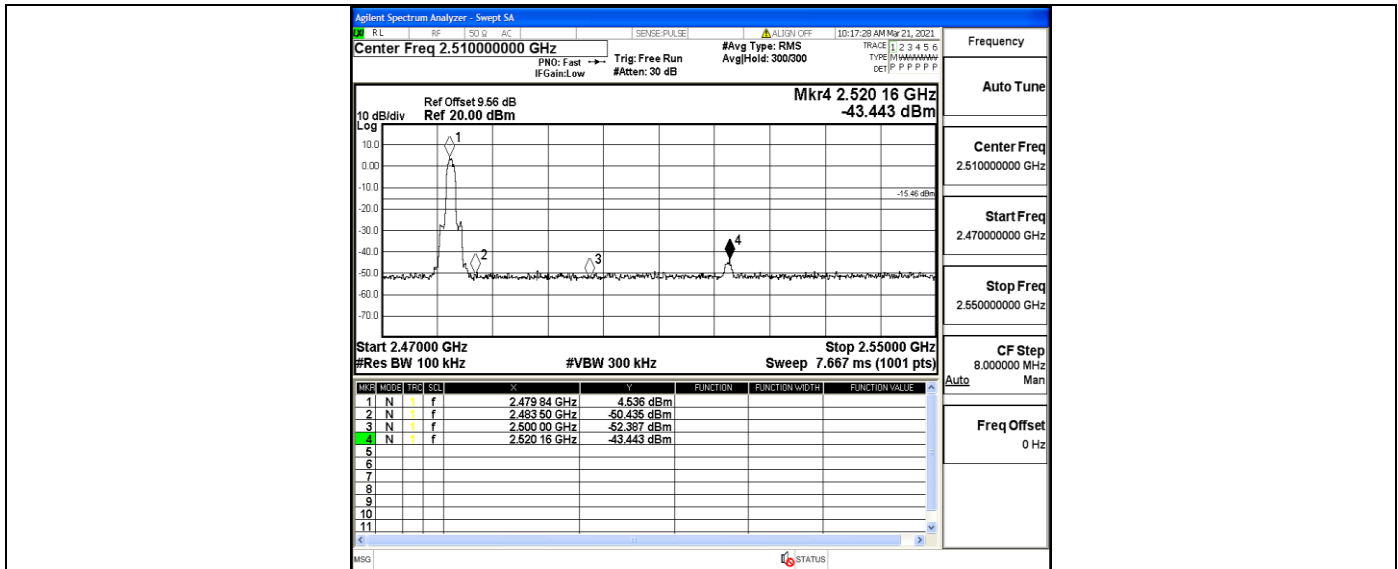
2DH5 Ant1 High Hop 2480



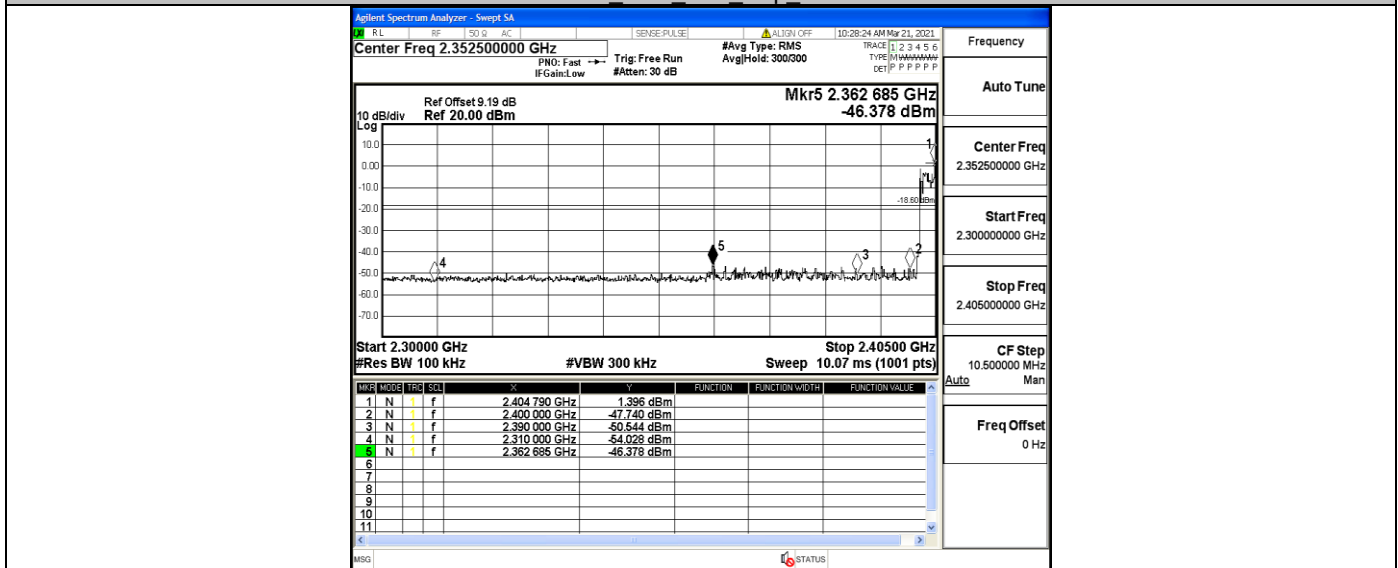
3DH5 Ant1 Low 2402



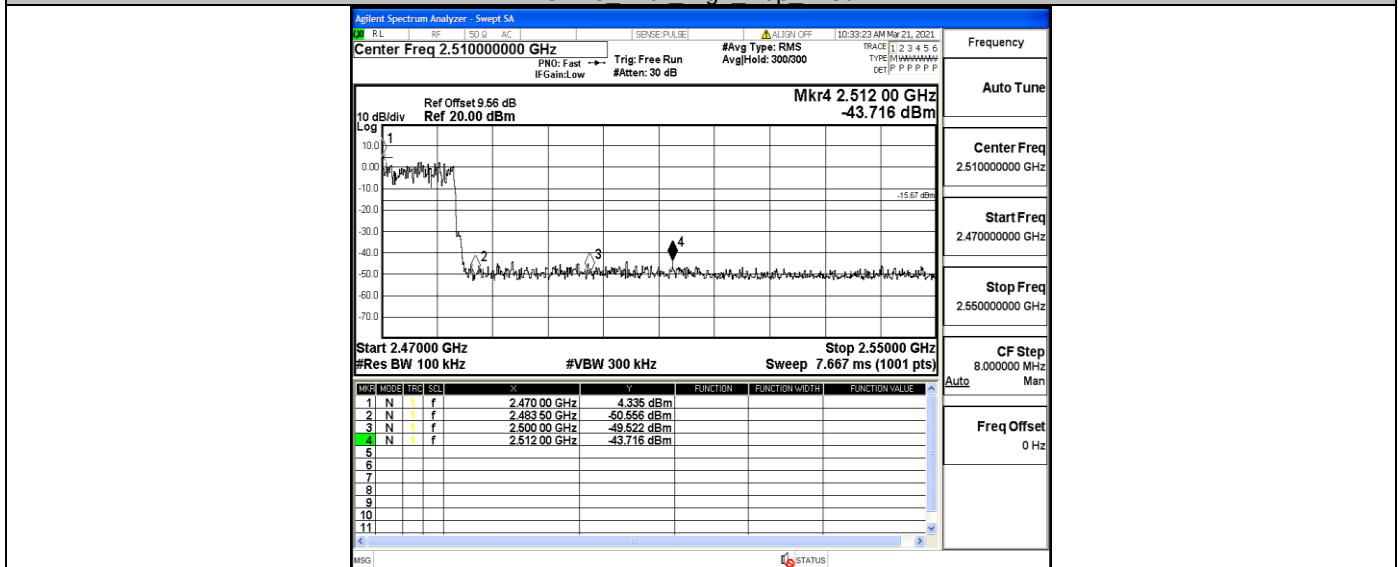
3DH5 Ant1 High 2480



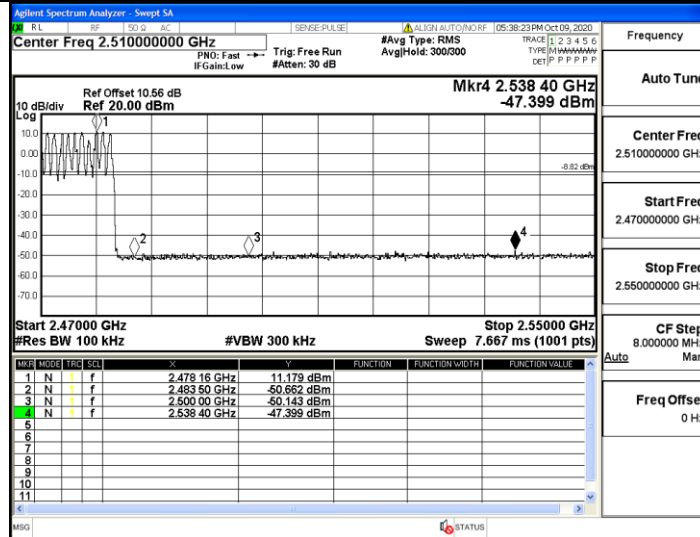
3DH5 Ant1 Low Hop 2402



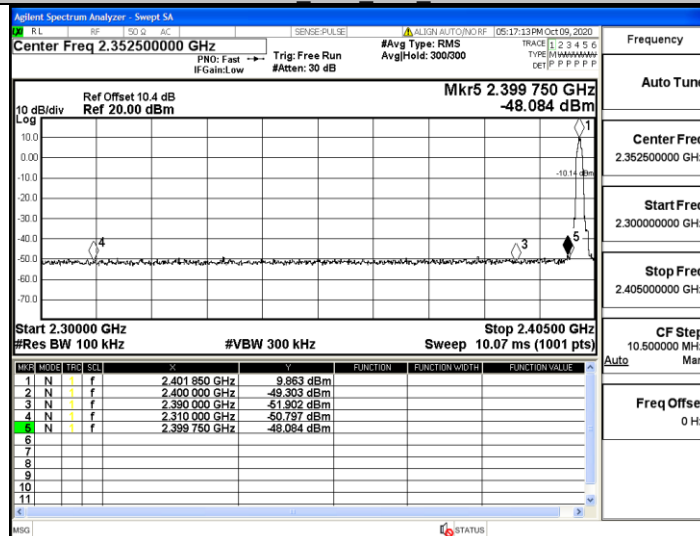
3DH5 Ant1 High Hop 2480



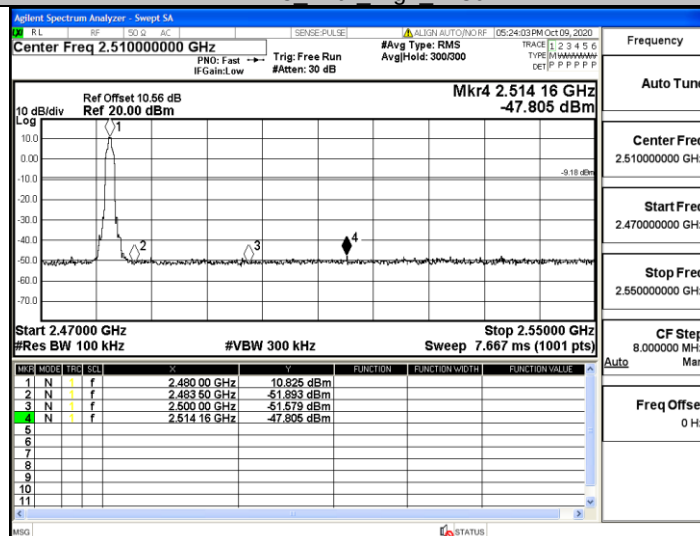
DH5_Ant1_High_Hop_2480



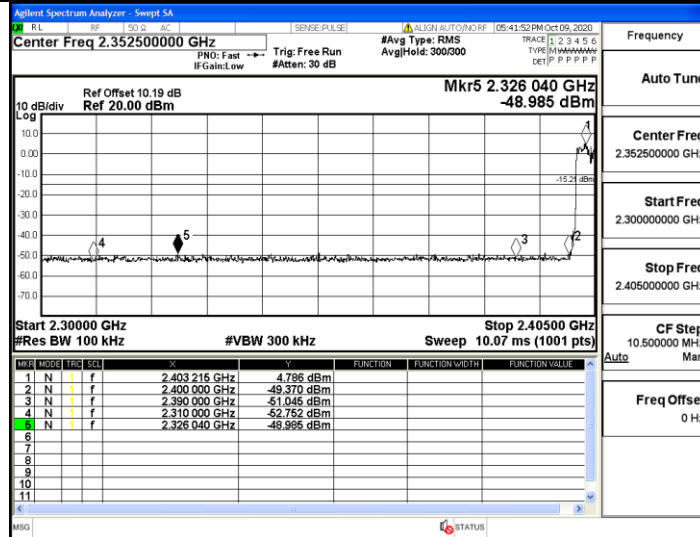
2DH5_Ant1_Low_2402



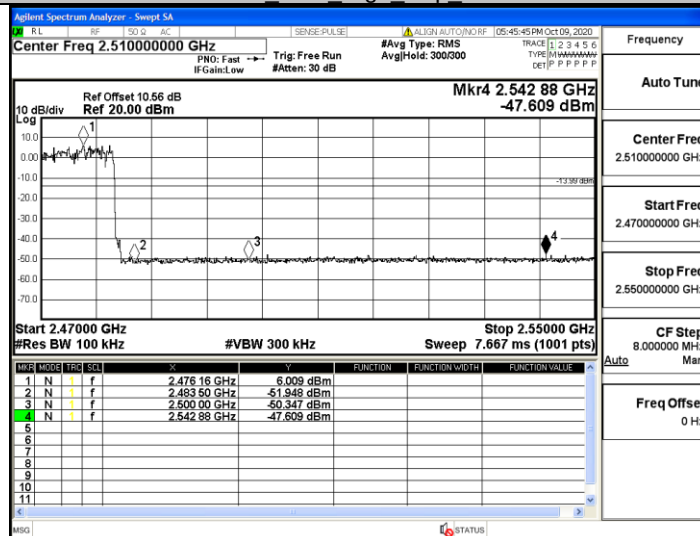
2DH5_Ant1_High_2480



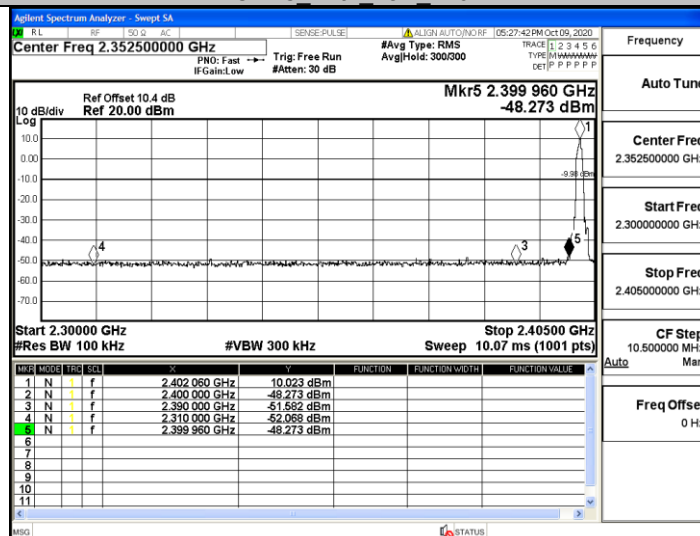
2DH5 Ant1 Low Hop 2402



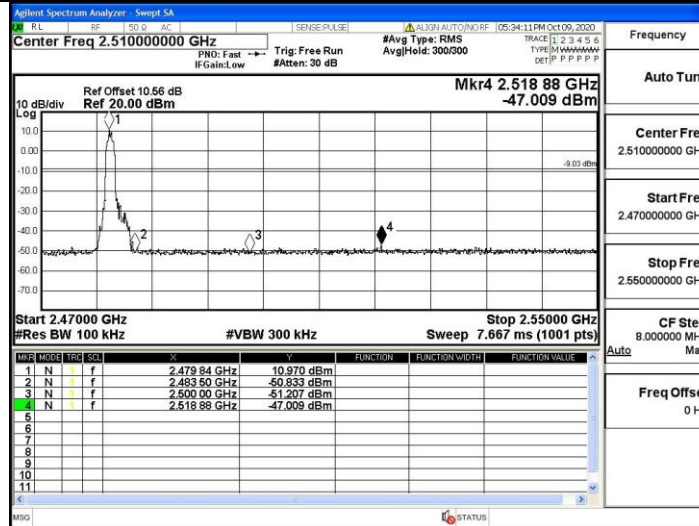
2DH5 Ant1 High Hop 2480



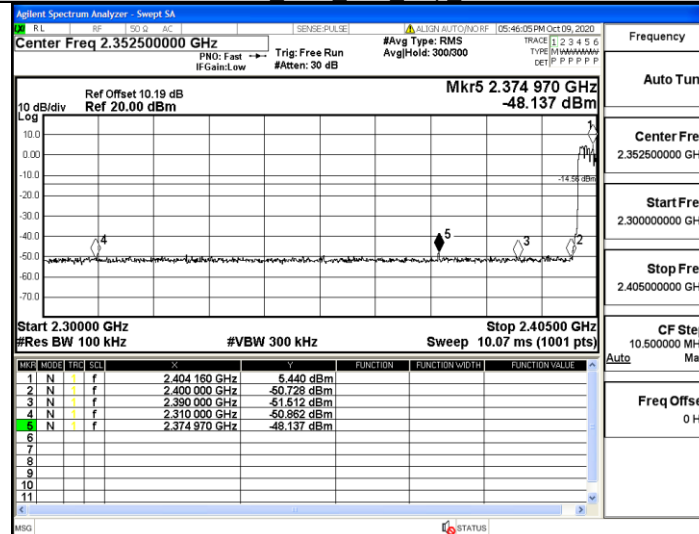
3DH5 Ant1 Low 2402



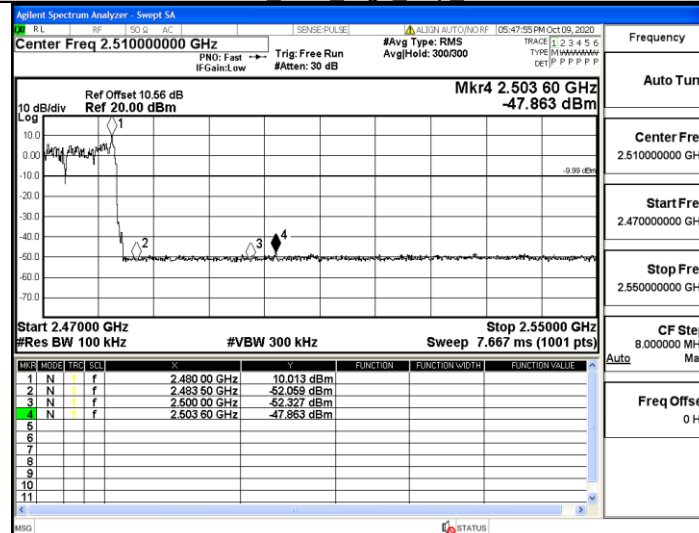
3DH5 Ant1 High 2480



3DH5 Ant1 Low Hop 2402



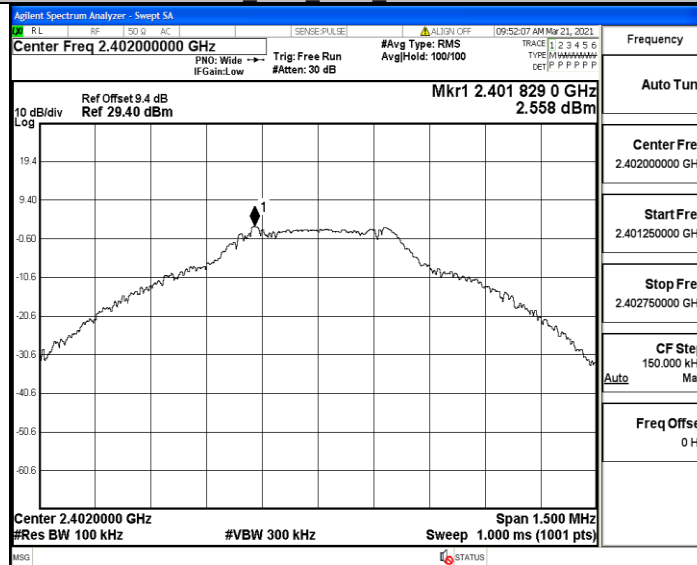
3DH5 Ant1 High Hop 2480



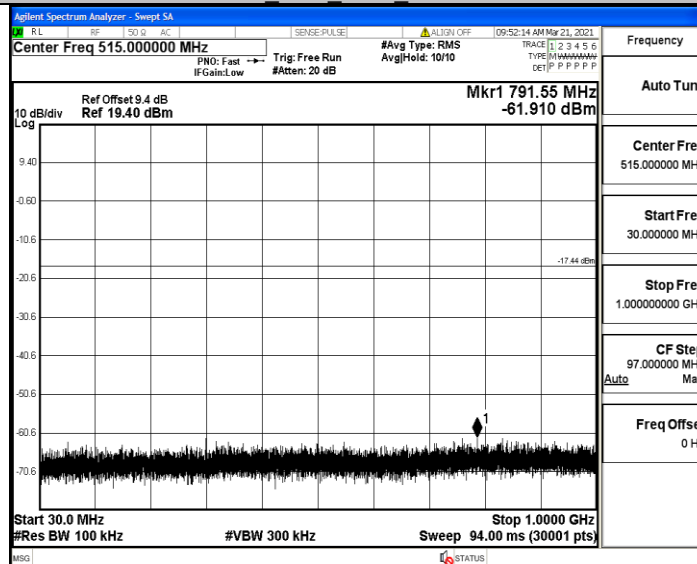
A.7 RF Conducted Spurious Emissions

Test Graph

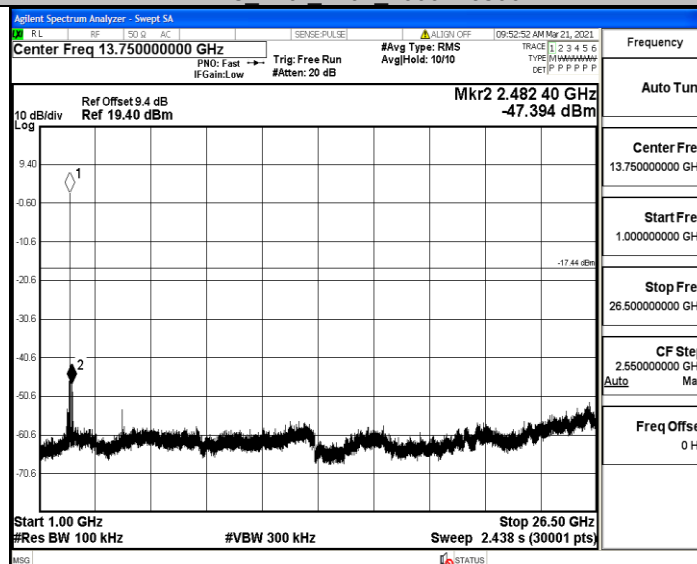
DH5 Ant1 2402 0-Reference



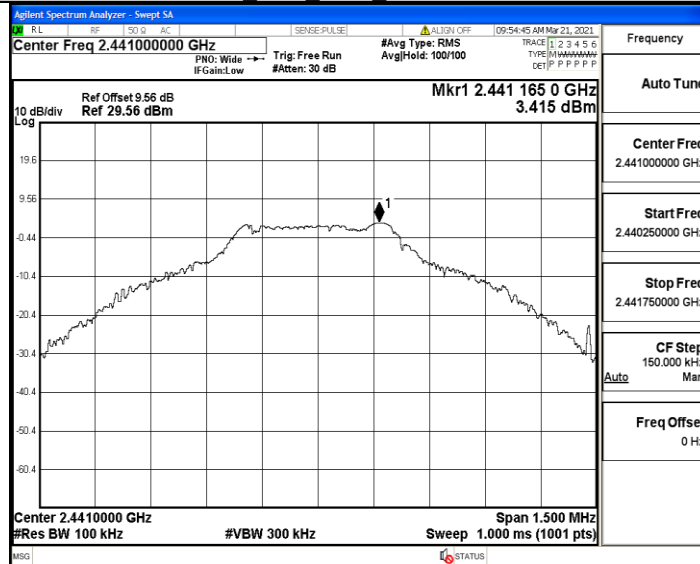
DH5 Ant1 2402 30-1000



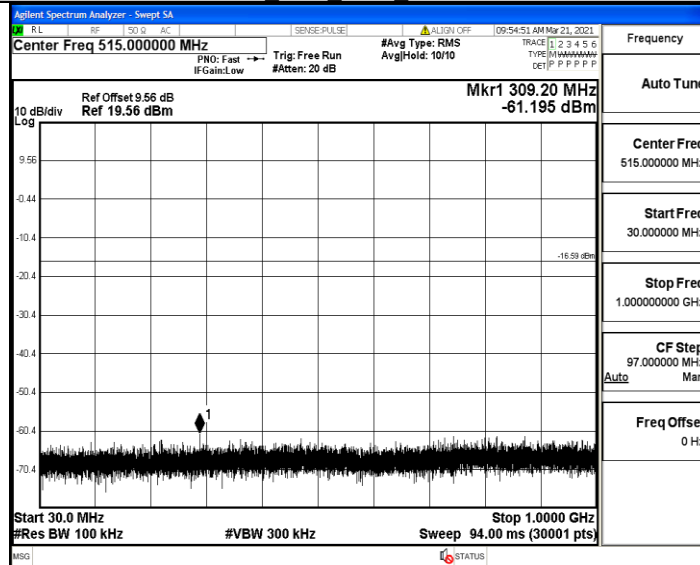
DH5 Ant1 2402 1000-26500



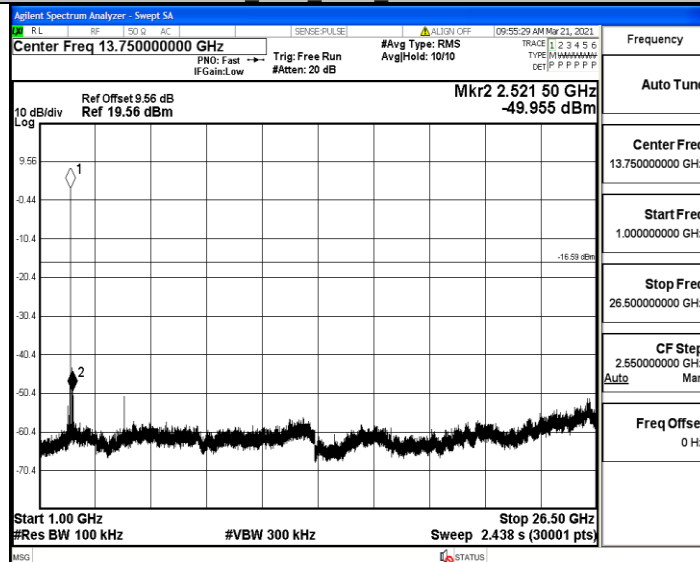
DH5_Ant1_2441_0-Reference



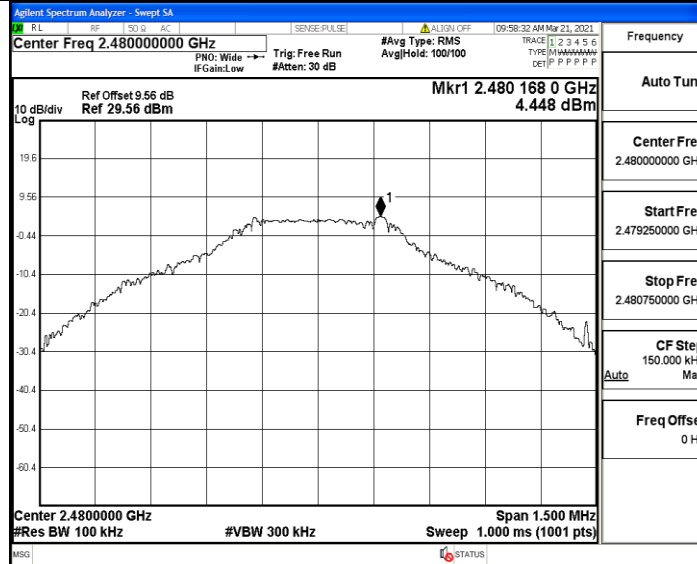
DH5_Ant1_2441_30~1000



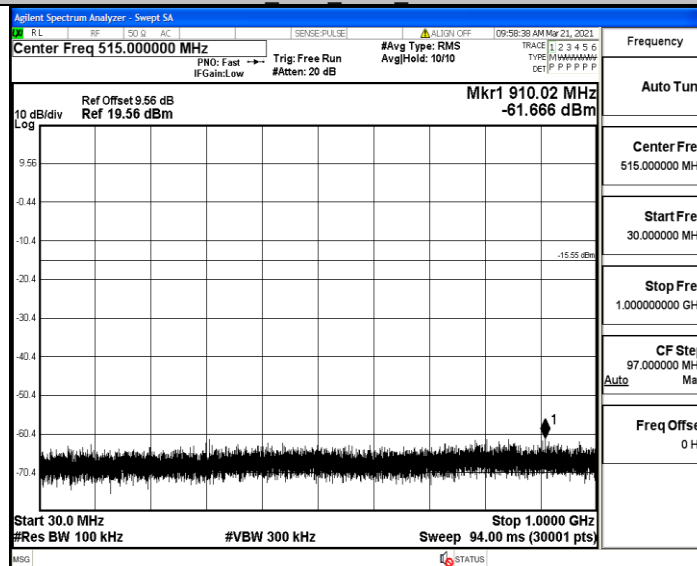
DH5_Ant1_2441_1000~26500



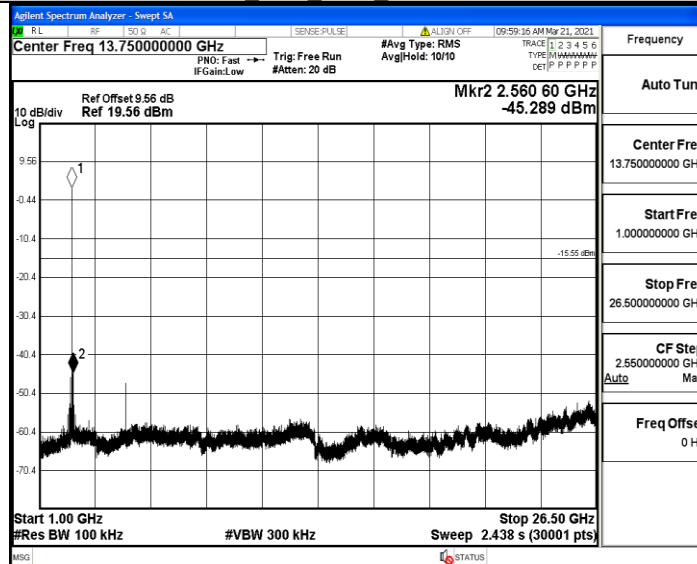
DH5_Ant1_2480_0-Reference



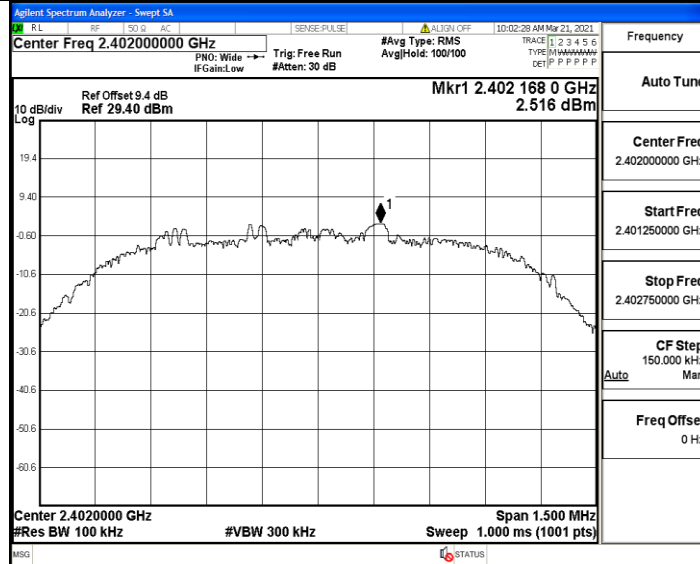
DH5 Ant1 2480 30~1000



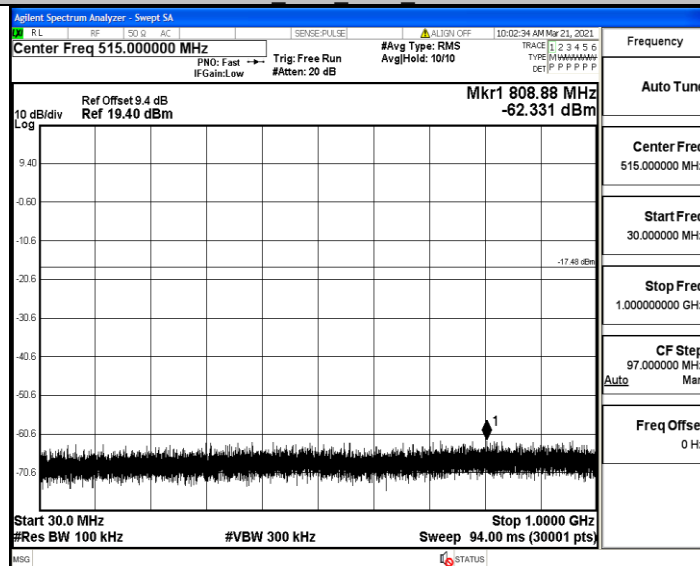
DH5 Ant1 2480 1000~26500



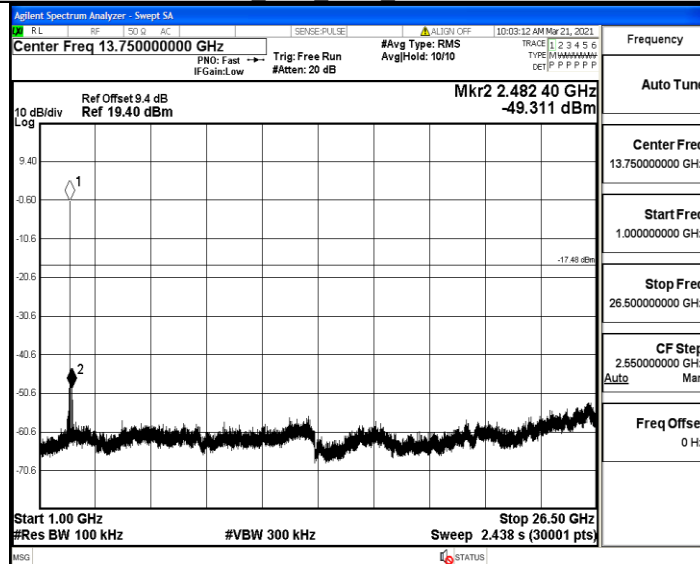
2DH5 Ant1 2402_0~Reference



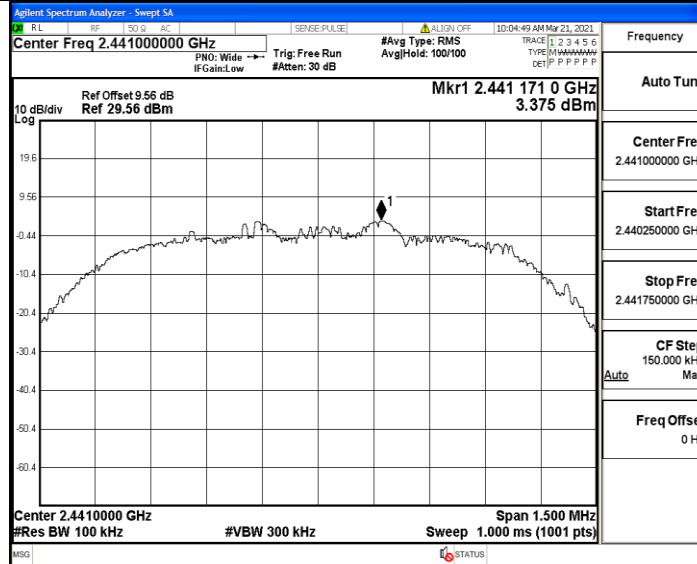
2DH5_Ant1_2402_30~1000



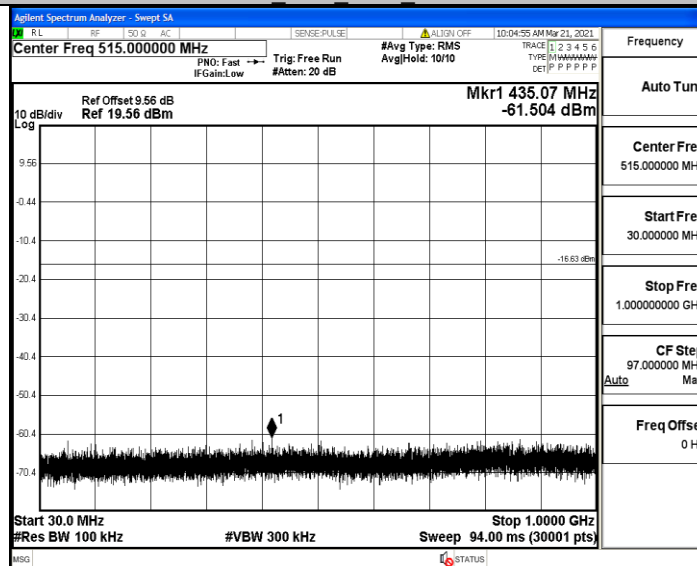
2DH5_Ant1_2402_1000~26500



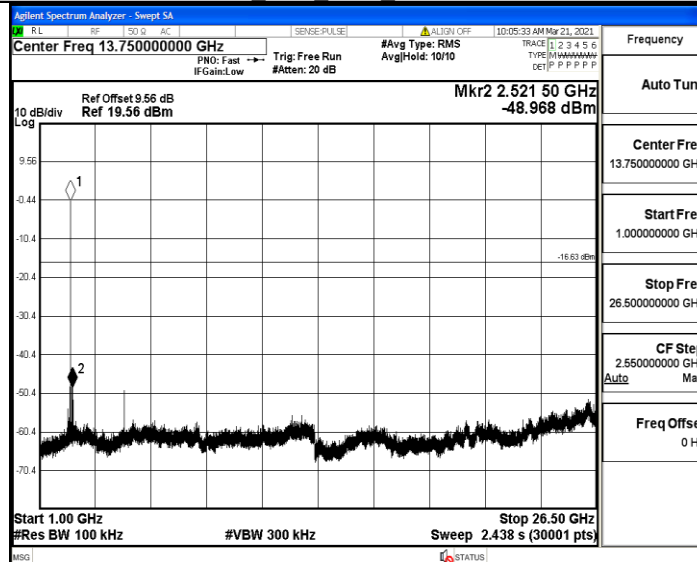
2DH5_Ant1_2441_0~Reference



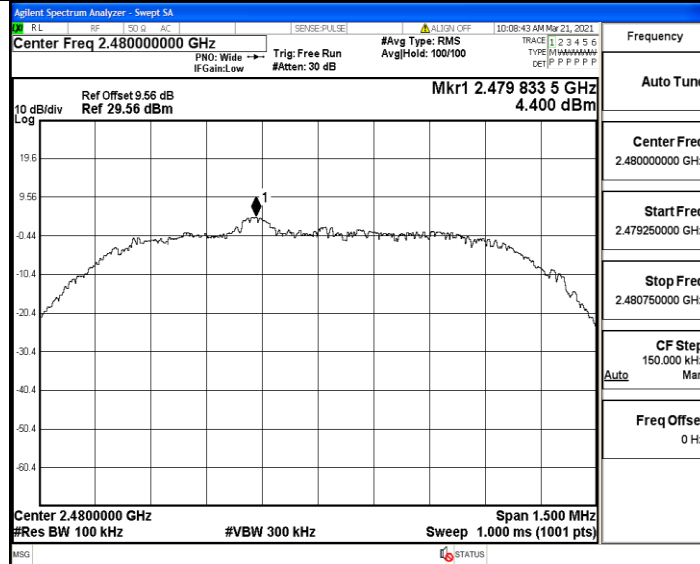
2DH5_Ant1_2441_30~1000



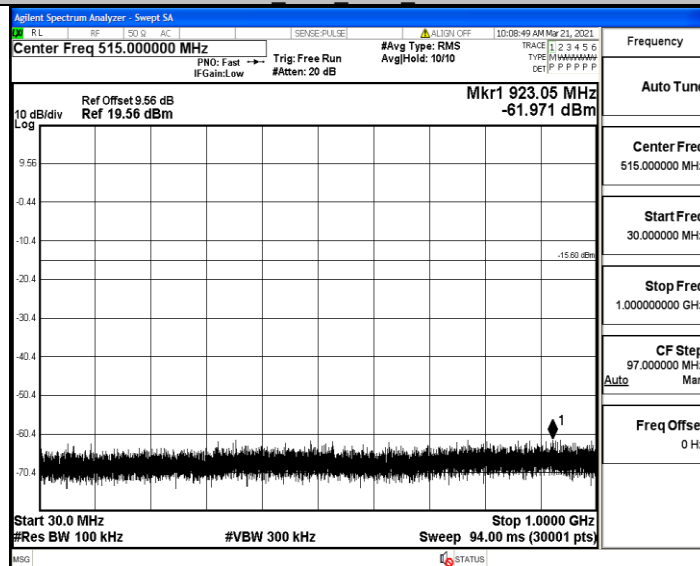
2DH5_Ant1_2441_1000~26500



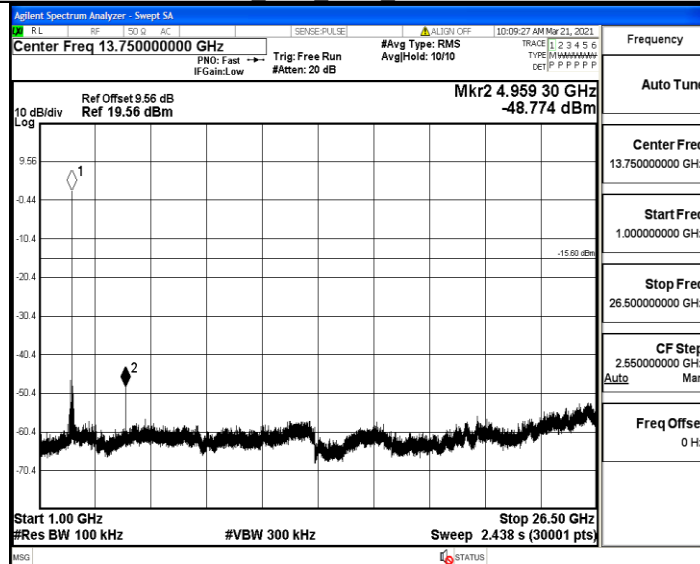
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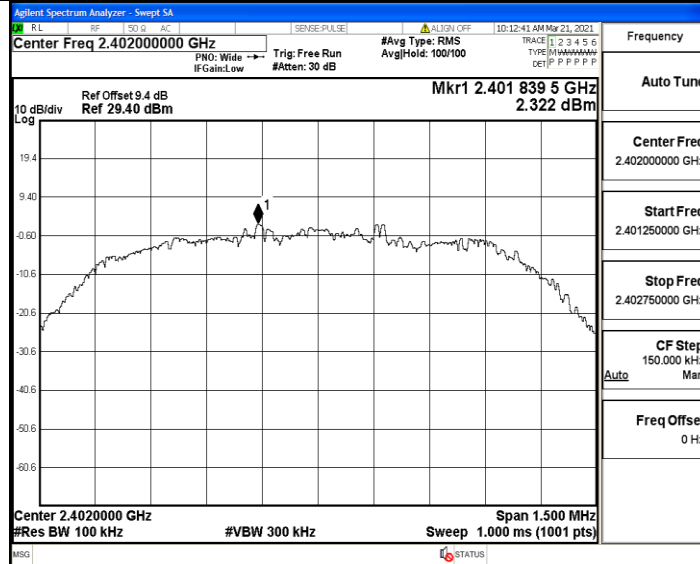
2DH5 Ant1 2480 30~1000



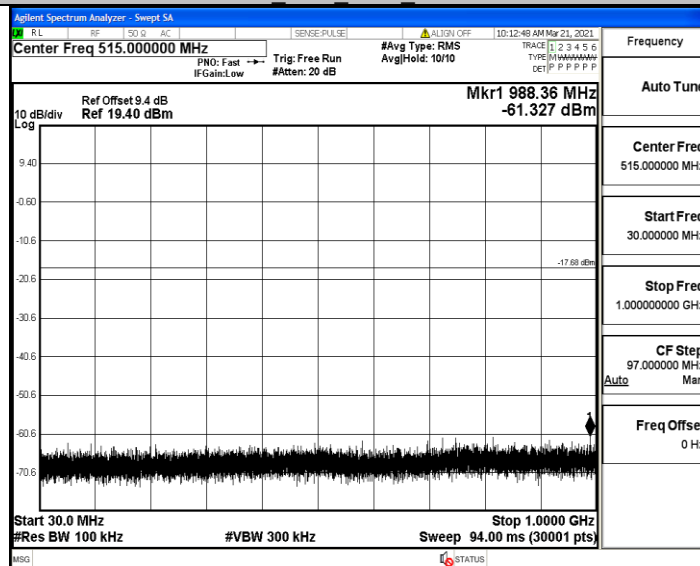
2DH5 Ant1 2480 1000~26500



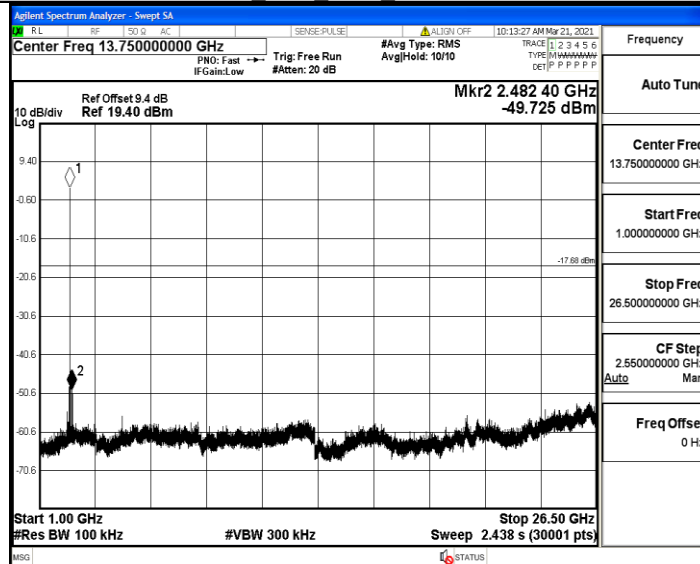
3DH5 Ant1 2402_0~Reference



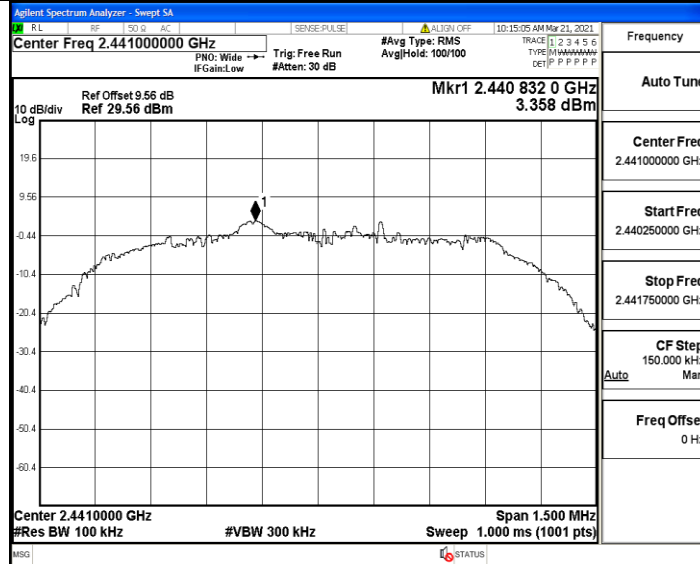
3DH5_Ant1_2402_30~1000



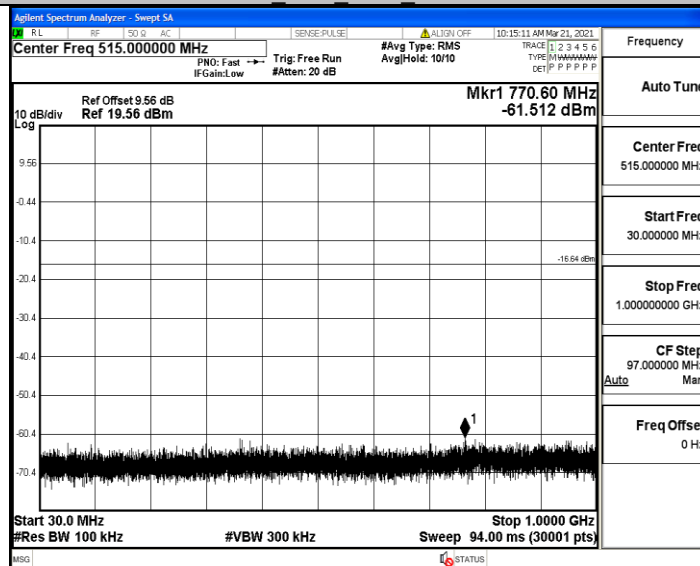
3DH5_Ant1_2402_1000~26500



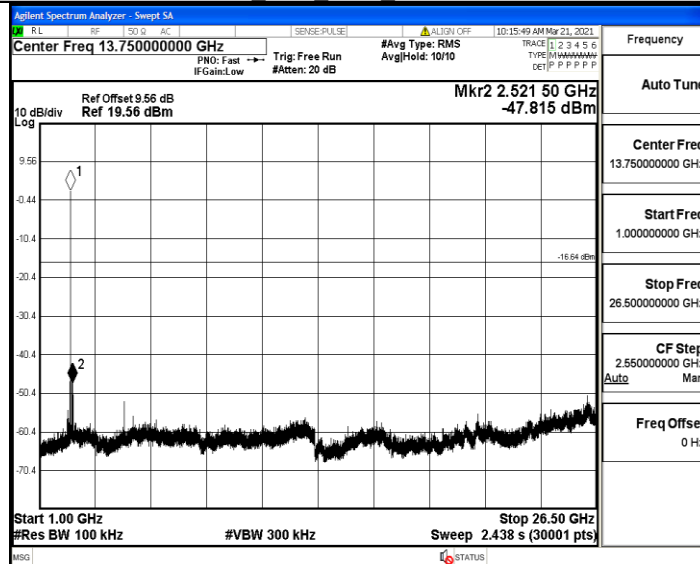
3DH5_Ant1_2441_0~Reference



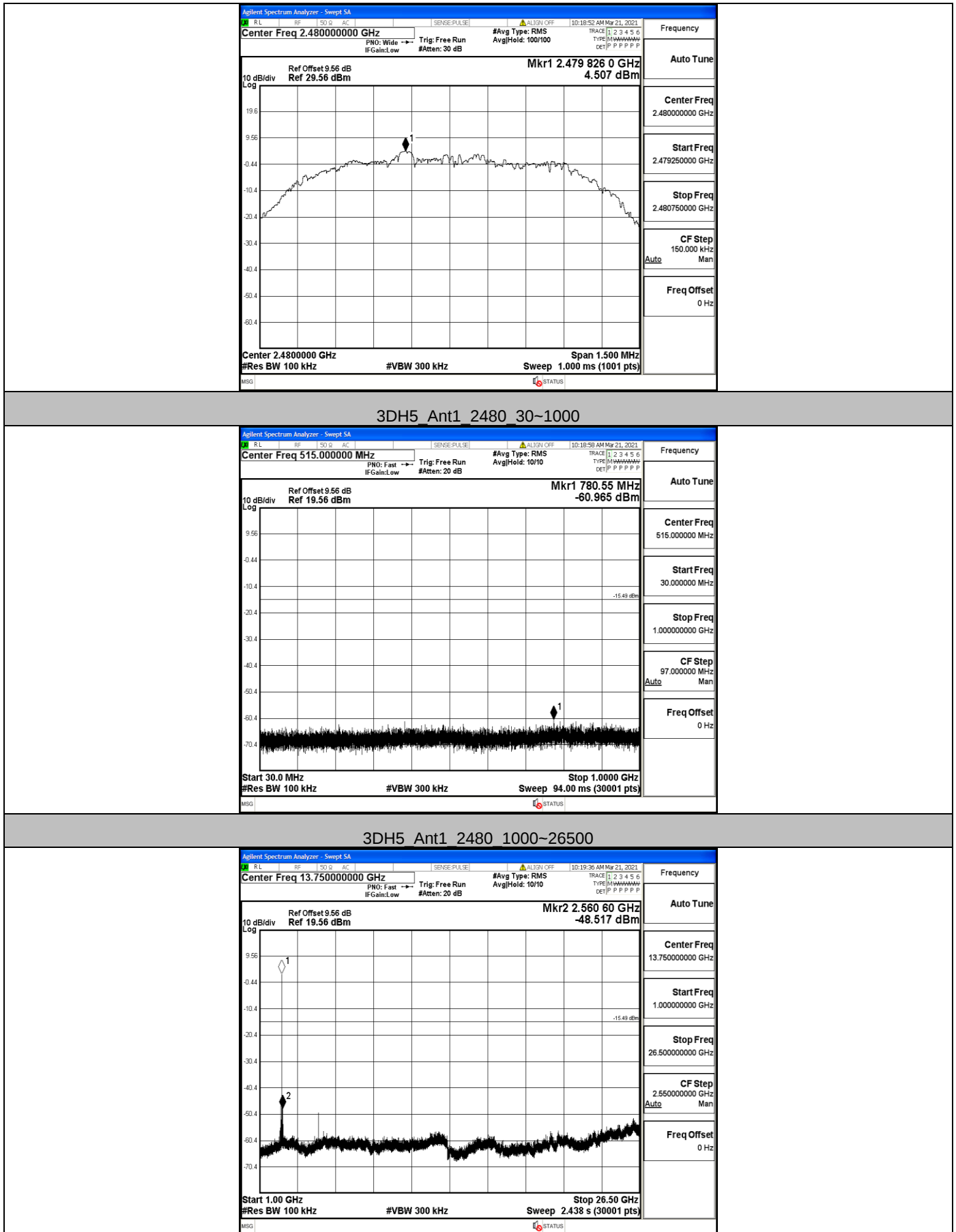
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3DH5_Ant1_2441_1000~26500



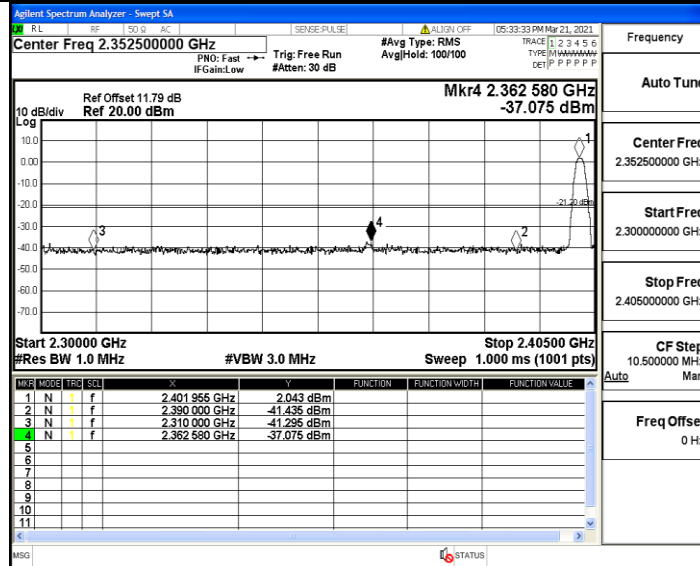
3DH5_Ant1_2480_0~Reference



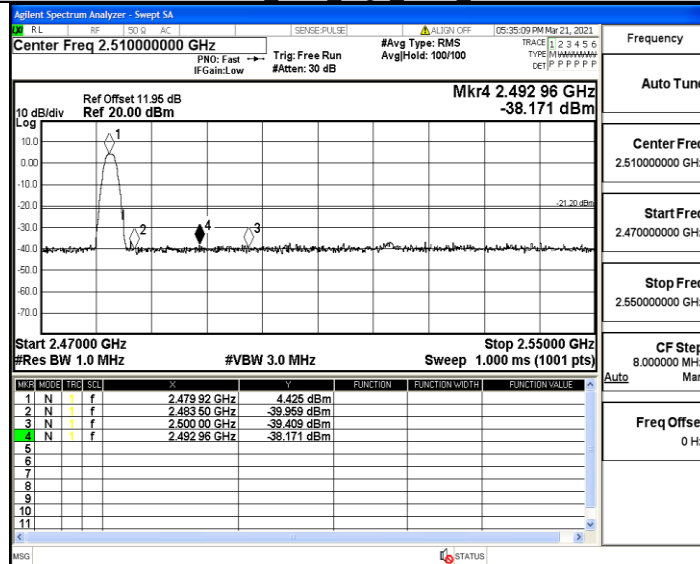
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.58	<=-41.20	PASS
				AV	2361.950	-44.44	<=-41.20	PASS
				AV	2390.000	-48.17	<=-41.20	PASS
				Peak	2310.000	-41.3	<=-21.20	PASS
				Peak	2362.580	-37.07	<=-21.20	PASS
				Peak	2390.000	-41.44	<=-21.20	PASS
		High	2480	AV	2483.500	-47.27	<=-41.20	PASS
				AV	2500.000	-47.37	<=-41.20	PASS
				Peak	2483.500	-39.96	<=-21.20	PASS
				Peak	2492.960	-38.17	<=-21.20	PASS
				Peak	2500.000	-39.41	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.63	<=-41.20	PASS
				AV	2361.845	-45.24	<=-41.20	PASS
				AV	2390.000	-48.3	<=-41.20	PASS
				Peak	2310.000	-41.38	<=-21.20	PASS
				Peak	2362.370	-37.3	<=-21.20	PASS
				Peak	2390.000	-41.15	<=-21.20	PASS
		High	2480	AV	2483.500	-47	<=-41.20	PASS
				AV	2483.520	-46.99	<=-41.20	PASS
				AV	2500.000	-47.49	<=-41.20	PASS
				Peak	2483.500	-40.86	<=-21.20	PASS
				Peak	2488.080	-37.72	<=-21.20	PASS
				Peak	2500.000	-40.58	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.6	<=-41.20	PASS
				AV	2361.950	-45.25	<=-41.20	PASS
				AV	2390.000	-48.25	<=-41.20	PASS
				Peak	2310.000	-39.99	<=-21.20	PASS
				Peak	2361.740	-36.8	<=-21.20	PASS
				Peak	2390.000	-41.42	<=-21.20	PASS
		High	2480	AV	2483.500	-46.97	<=-41.20	PASS
				AV	2500.000	-47.42	<=-41.20	PASS
				Peak	2483.500	-41.17	<=-21.20	PASS
				Peak	2490.400	-37.54	<=-21.20	PASS
				Peak	2500.000	-41.21	<=-21.20	PASS

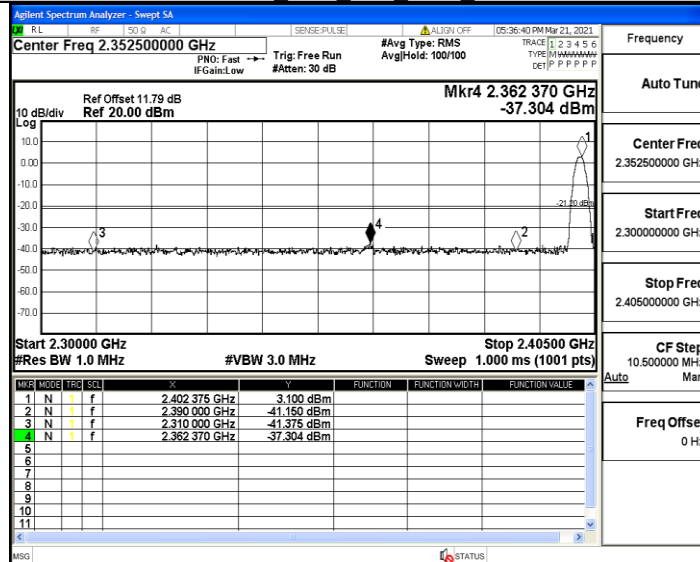
DH5 Ant1 Low 2402 AV



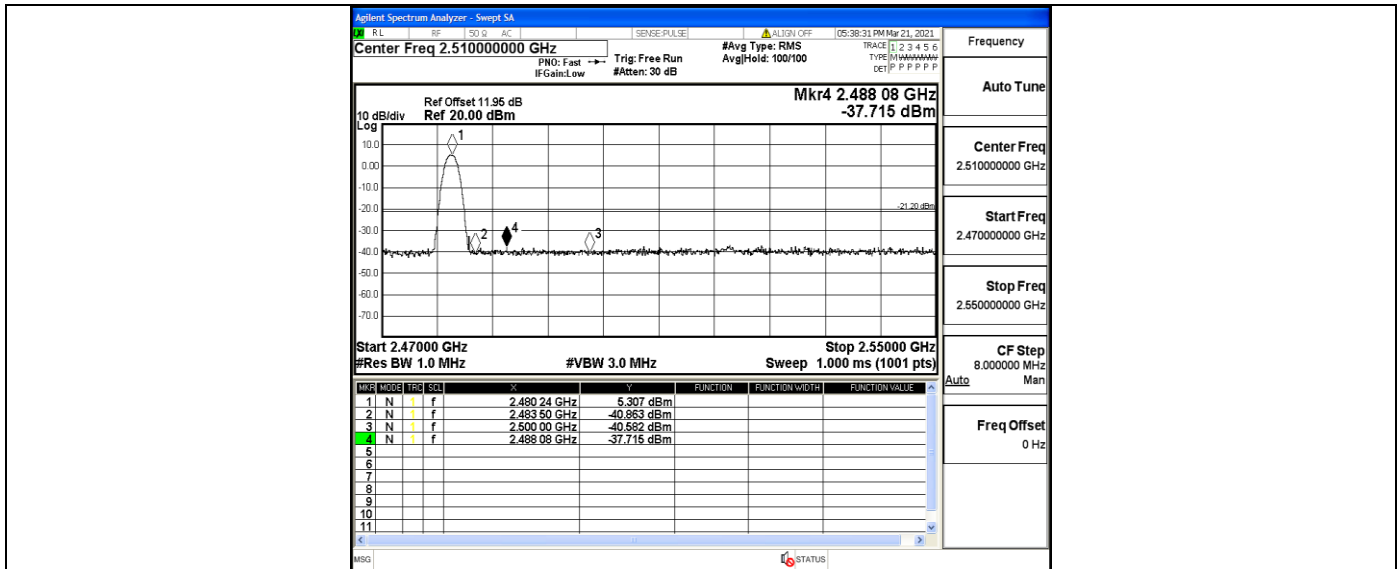
DH5 Ant1 High 2480 AV



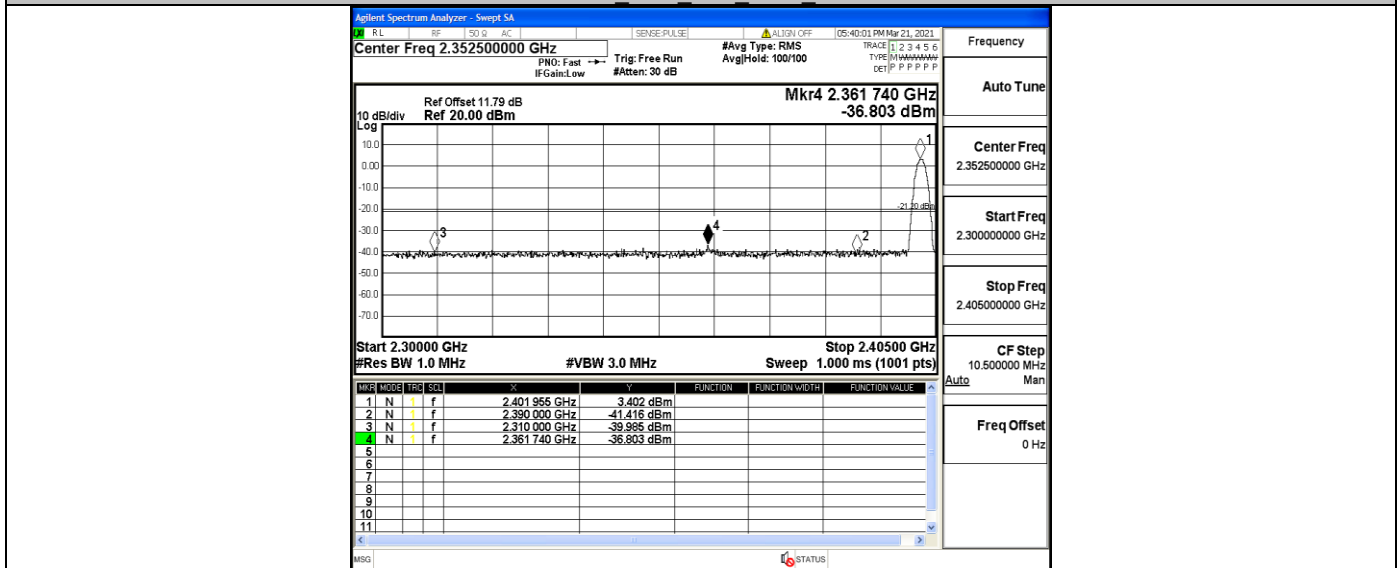
2DH5 Ant1 Low 2402 AV



2DH5 Ant1 High 2480 AV



3DH5 Ant1 Low 2402 AV



3DH5 Ant1 High 2480 AV

