

Appendix A

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

Product Name: Tablet PC
Trade Mark: DG TECHNOLOGY

Test Model: Dg_1522
FCC ID: 2AYH8DG1522

Environmental Conditions

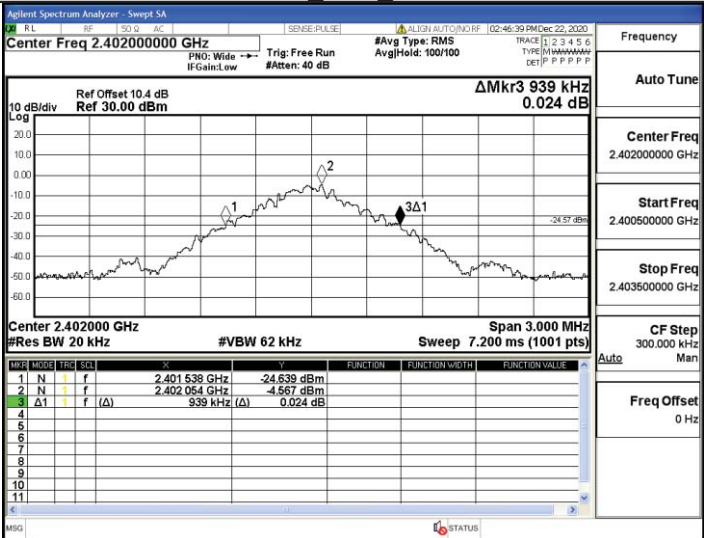
Temperature:	23.8℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

A.1 20 dB Bandwidth

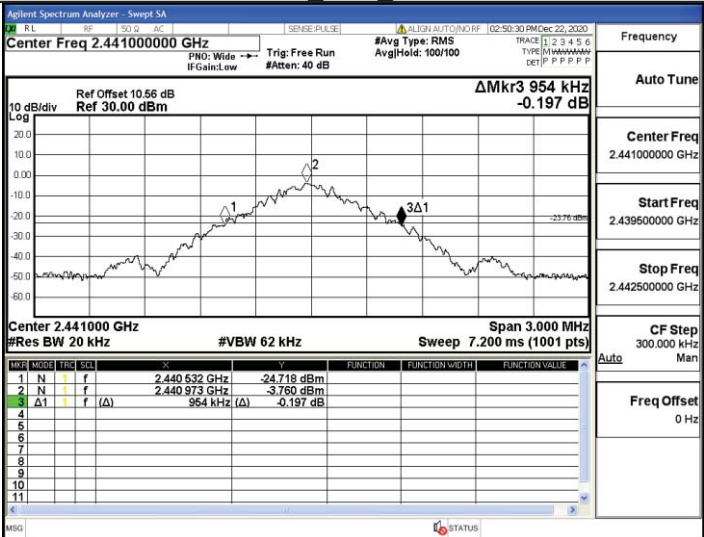
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.538	2402.477	Not Specified	PASS
		2441	0.954	2440.532	2441.486	Not Specified	PASS
		2480	0.945	2479.535	2480.480	Not Specified	PASS
2DH5	Ant1	2402	1.308	2401.343	2402.651	Not Specified	PASS
		2441	1.263	2440.364	2441.627	Not Specified	PASS
		2480	1.323	2479.334	2480.657	Not Specified	PASS
3DH5	Ant1	2402	1.266	2401.355	2402.621	Not Specified	PASS
		2441	1.293	2440.349	2441.642	Not Specified	PASS
		2480	1.308	2479.343	2480.651	Not Specified	PASS

Test Graph

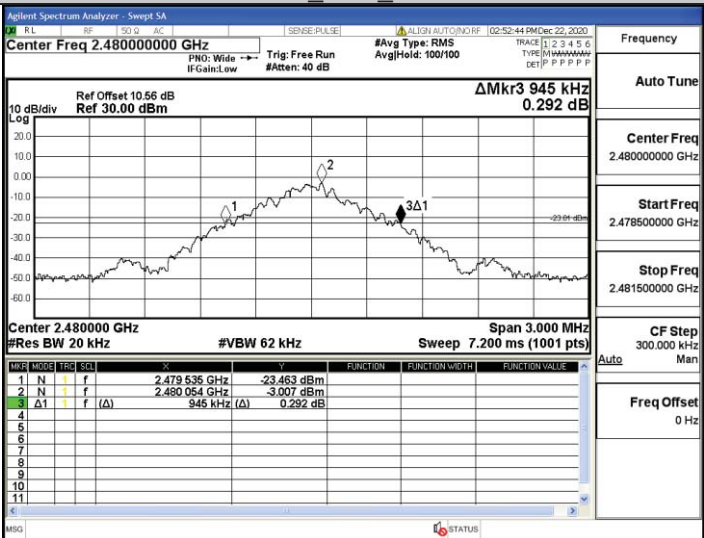
DH5_Ant1_2402



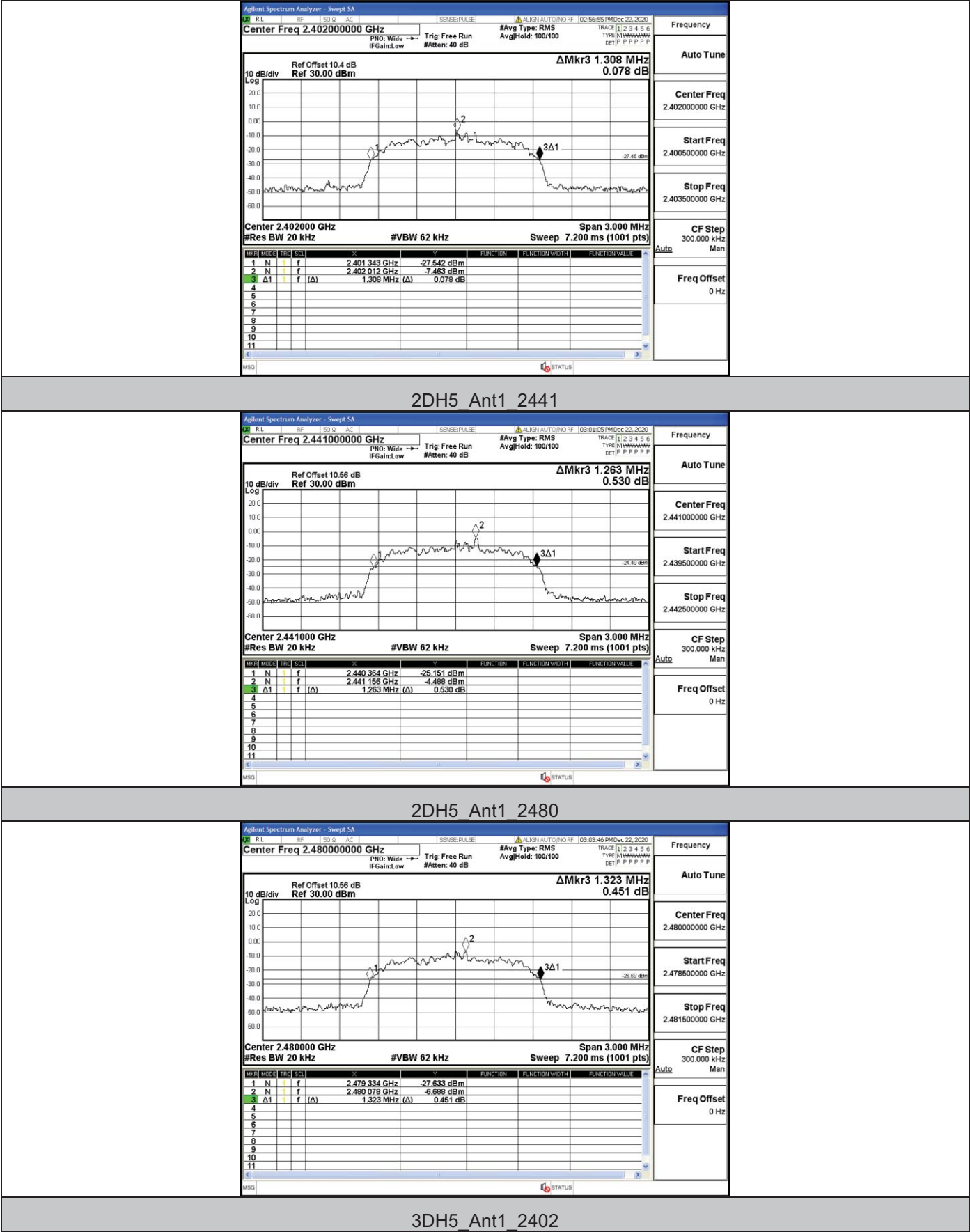
DH5_Ant1_2441

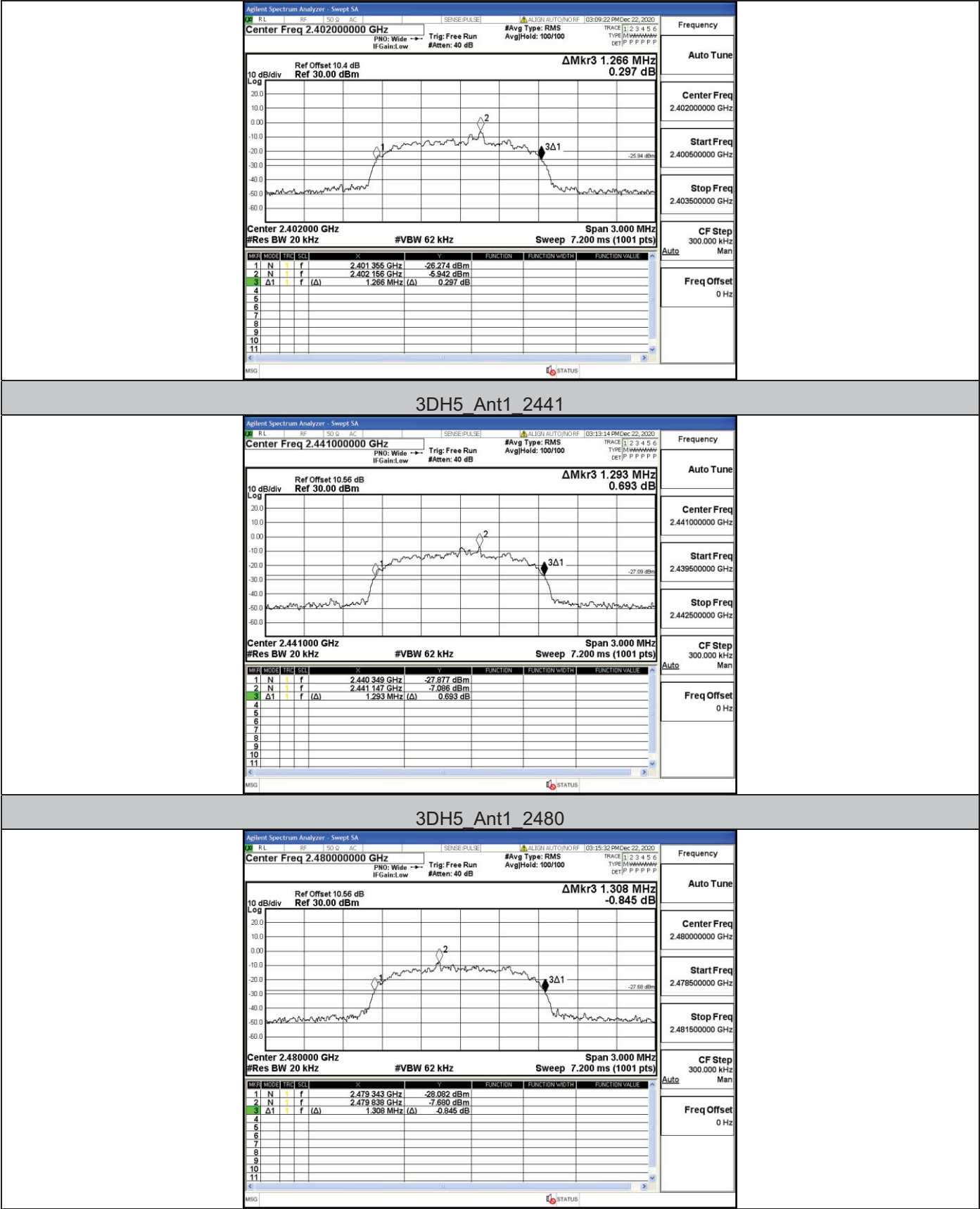


DH5_Ant1_2480



2DH5_Ant1_2402

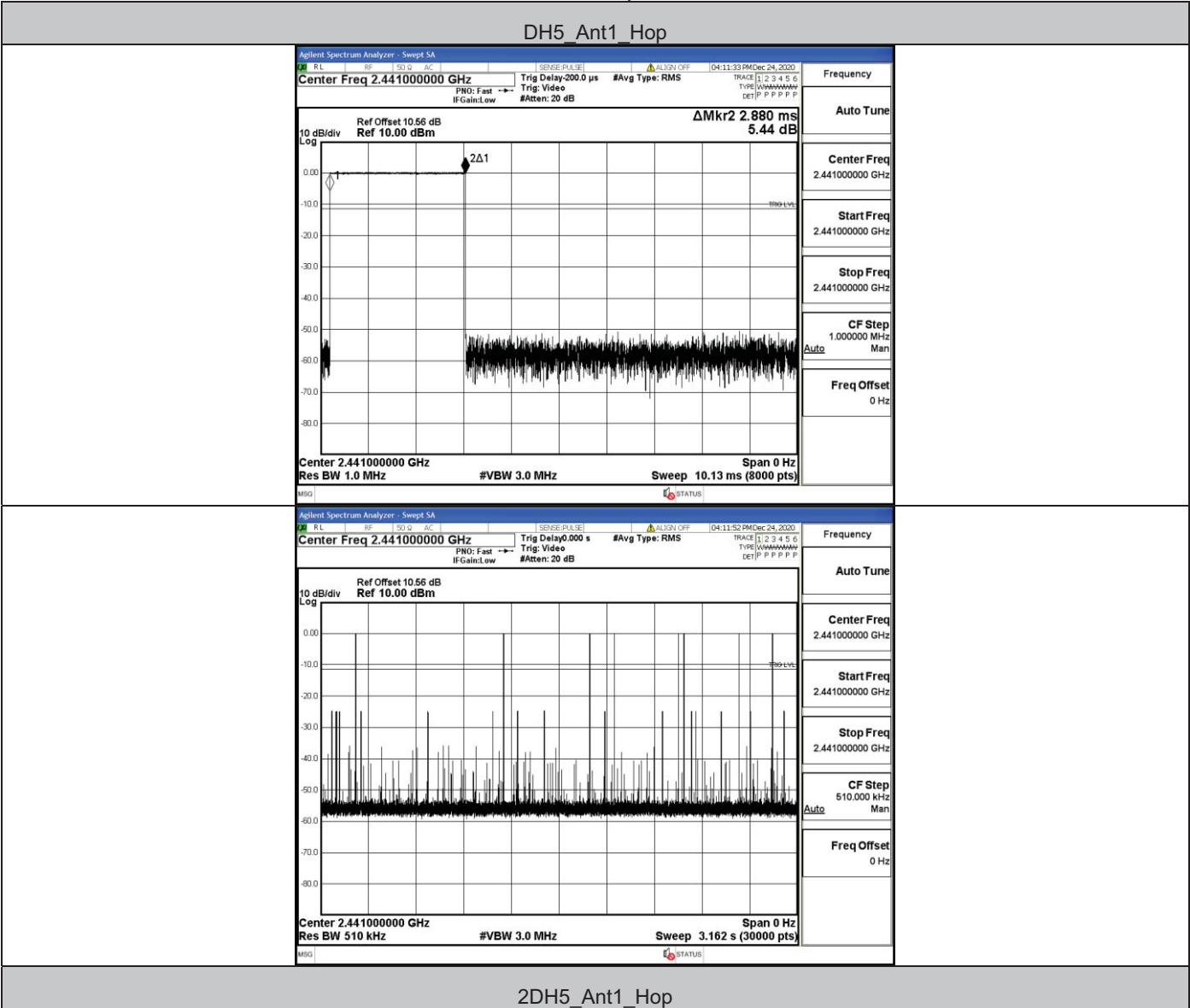


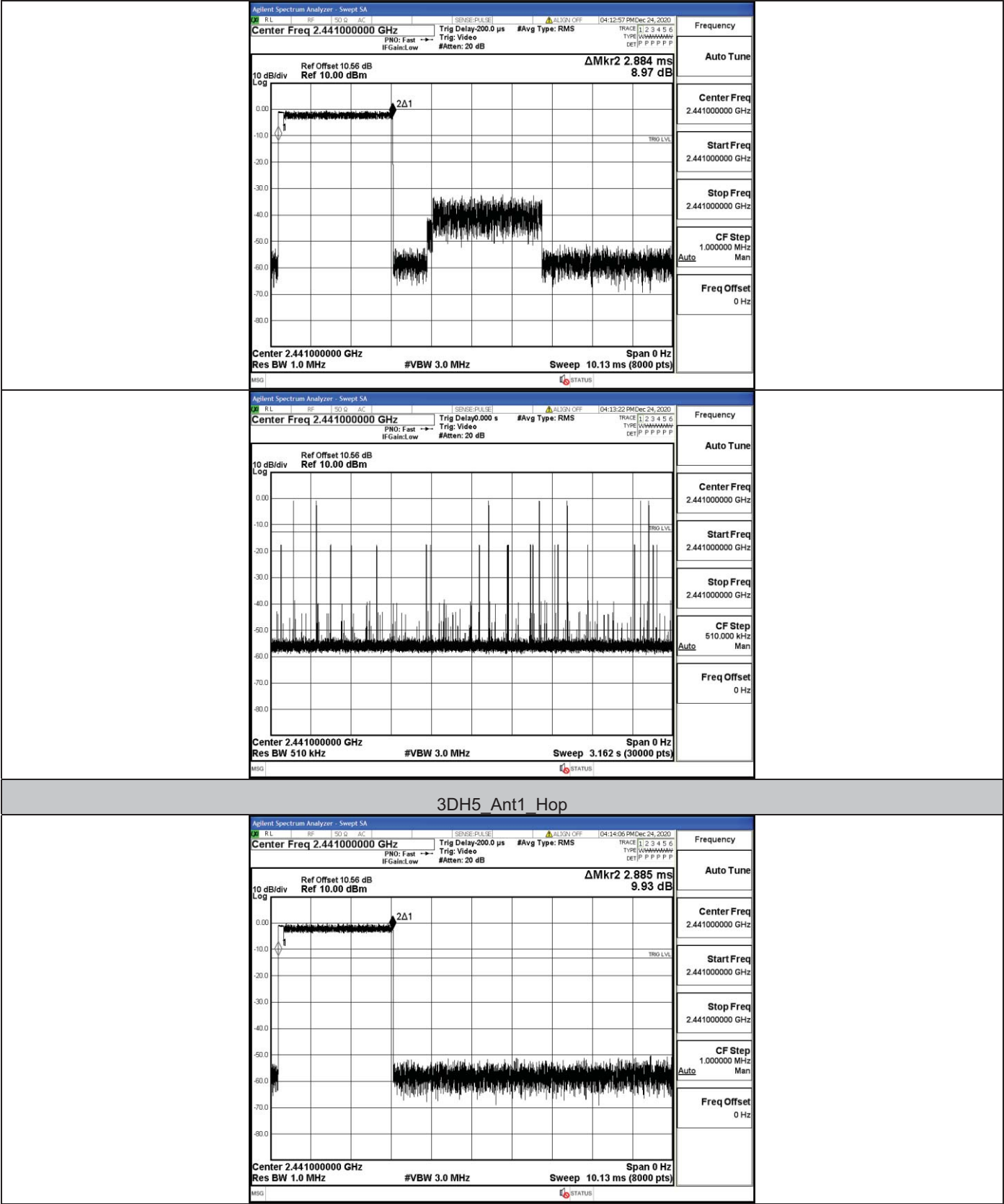


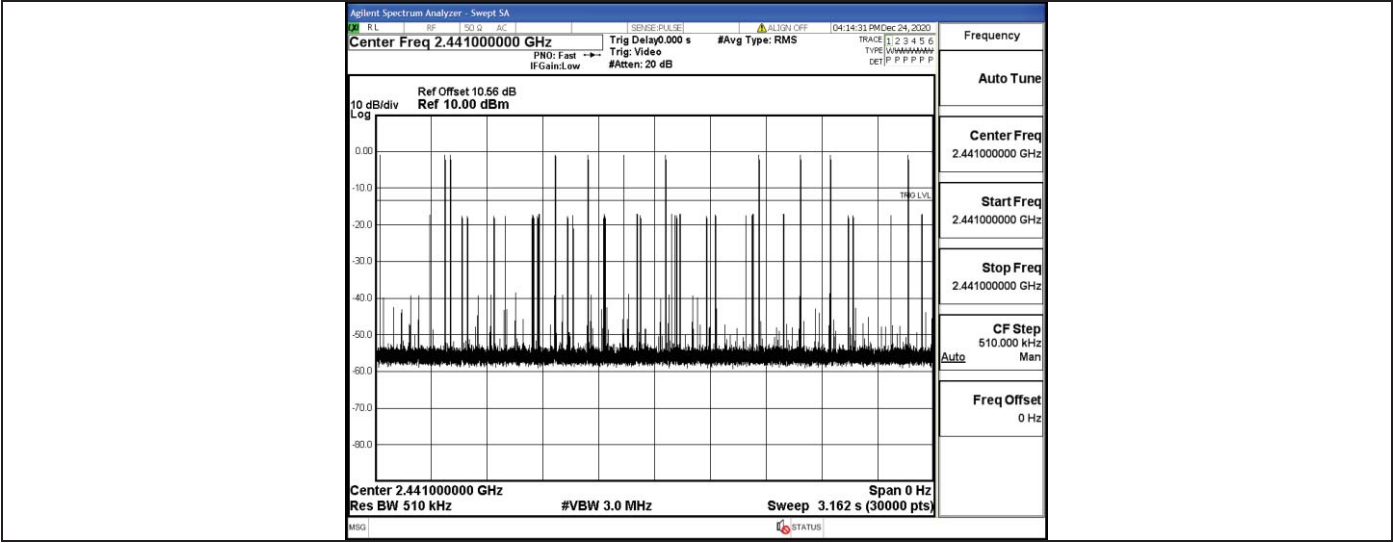
A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	90	0.259	<=0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	<=0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	<=0.4	PASS

Test Graph



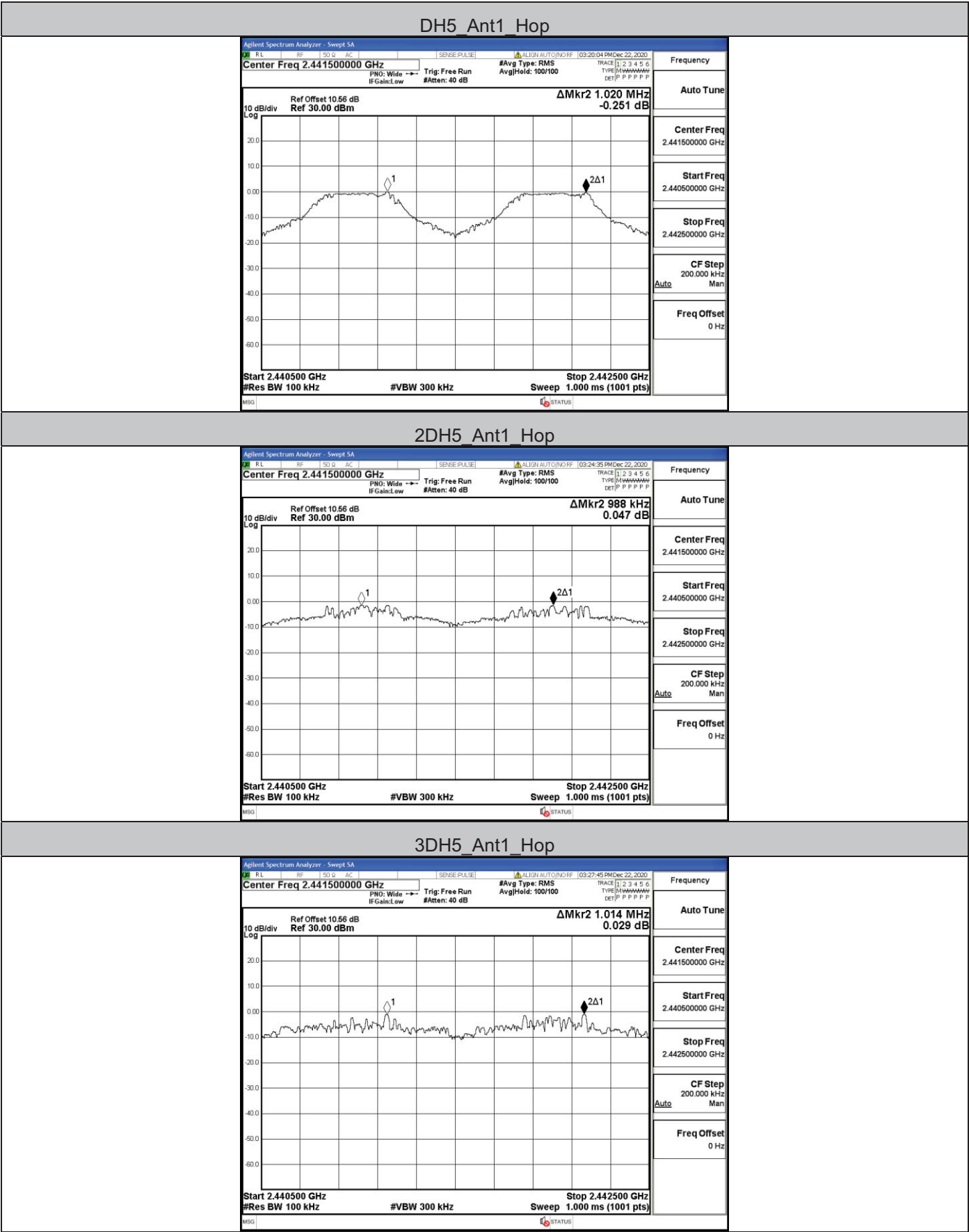




A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.954	PASS
2DH5	Ant1	Hop	0.988	≥ 0.882	PASS
3DH5	Ant1	Hop	1.014	≥ 0.872	PASS

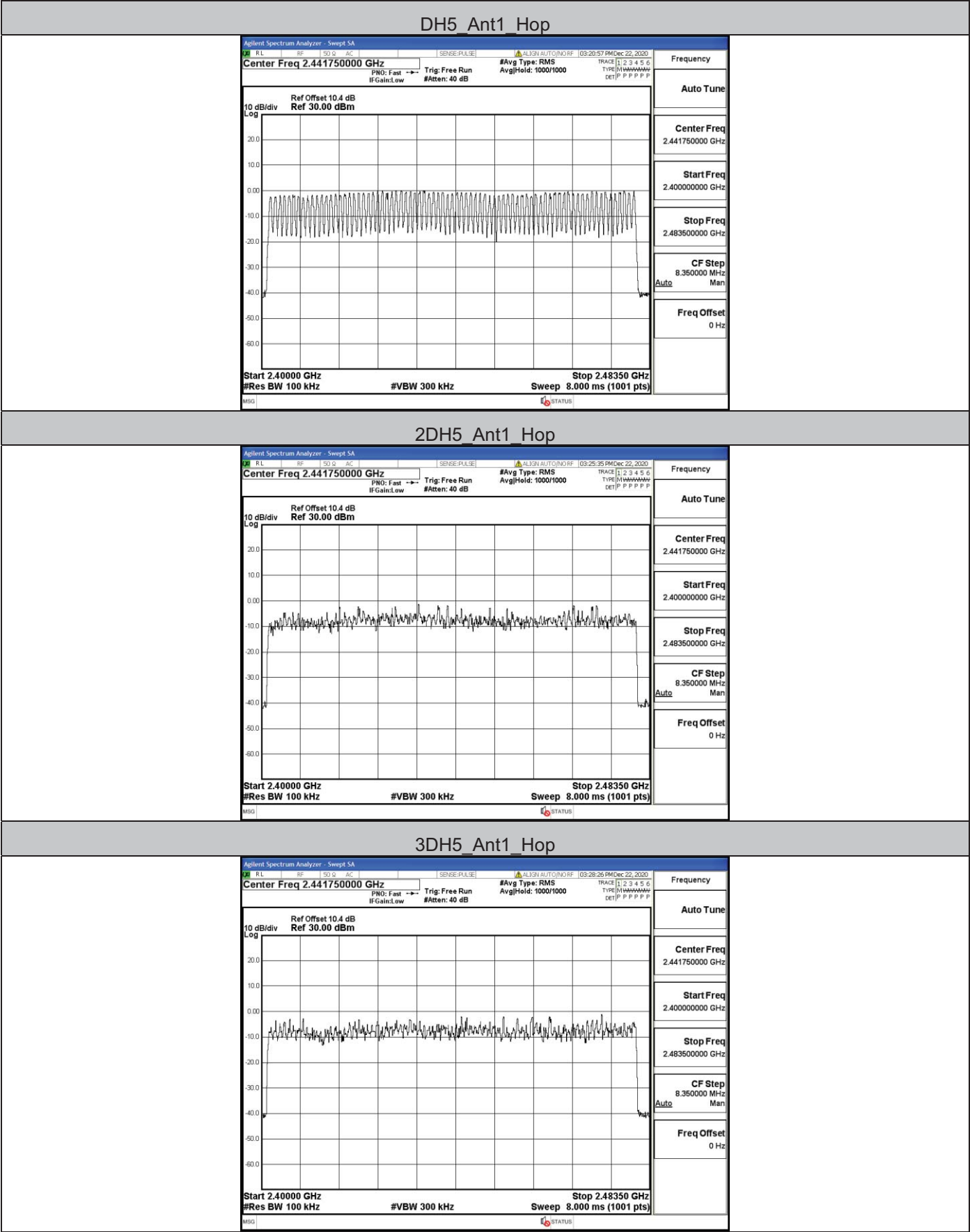
Test Graph



A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

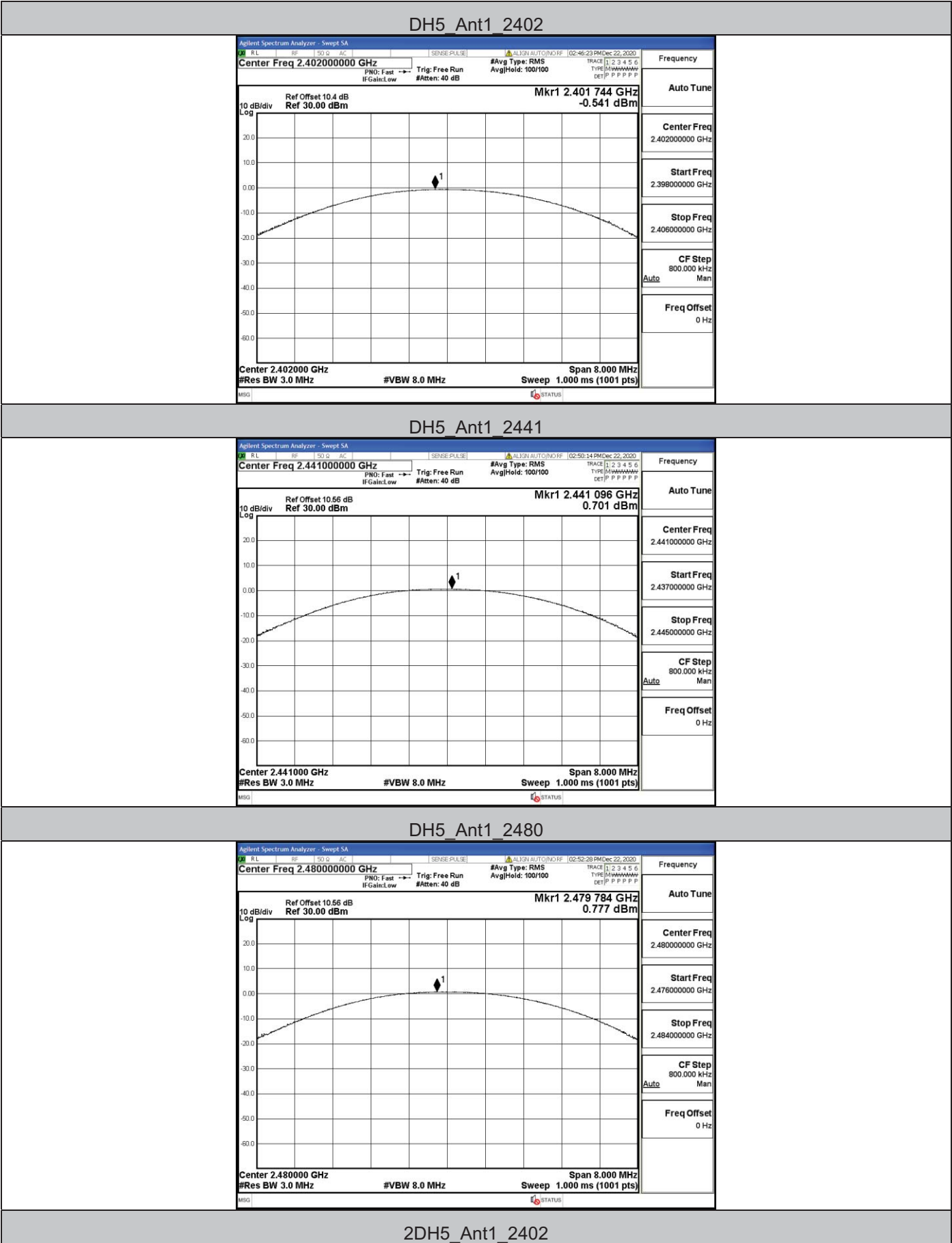
Test Graph

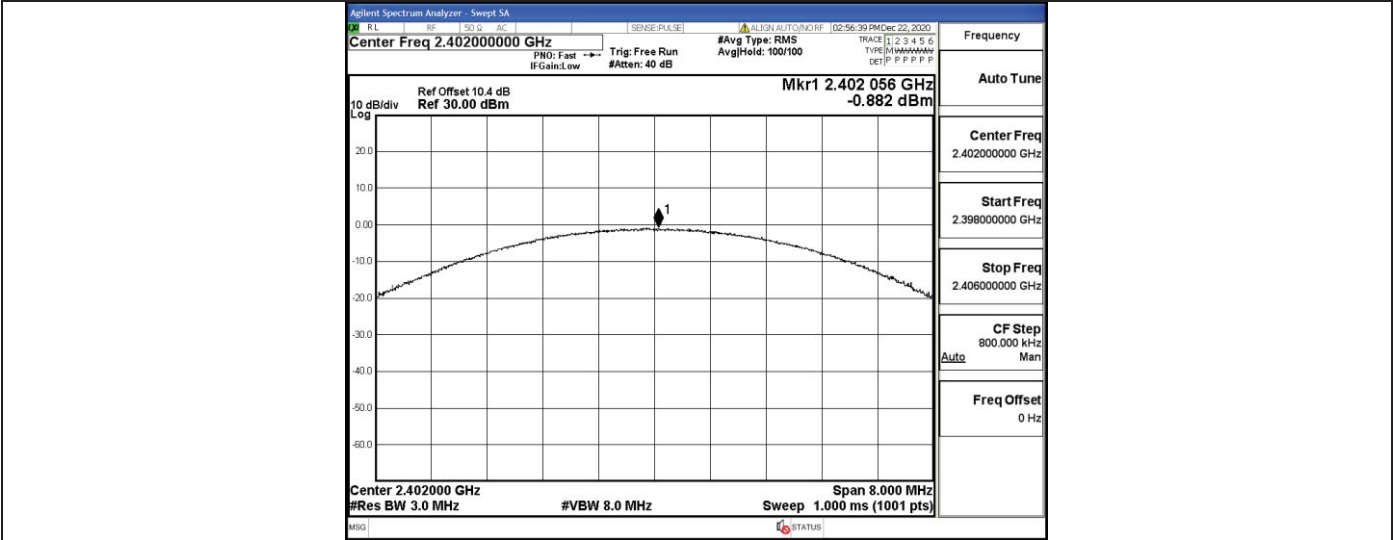


A.5 Conducted Peak Output Power

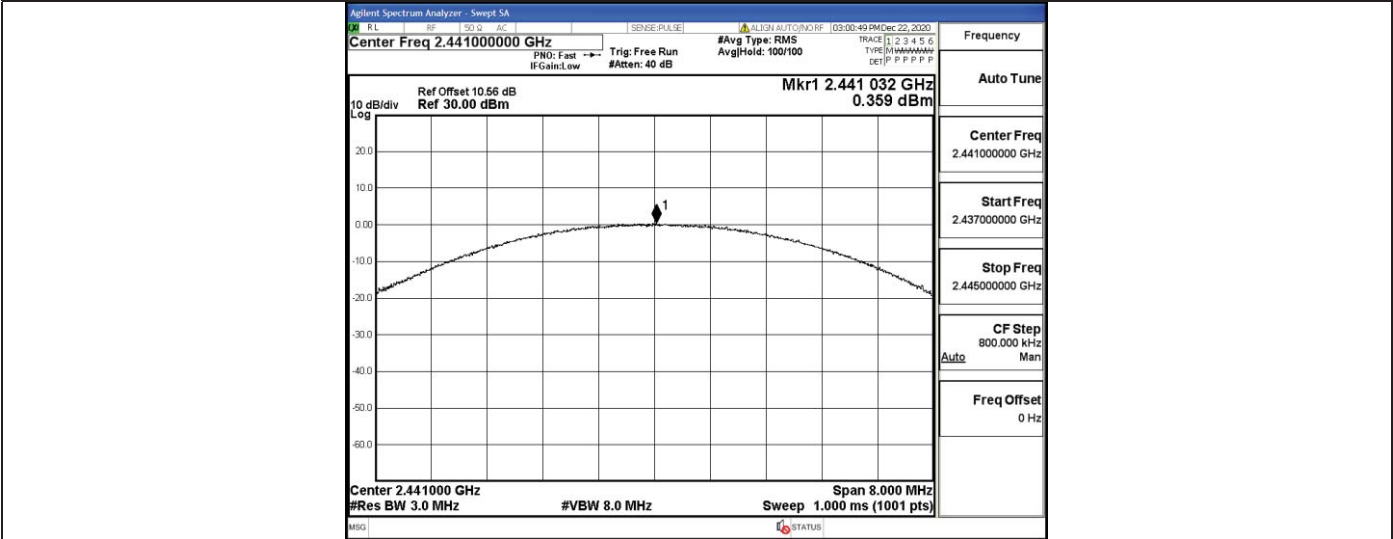
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.54	21	PASS
GFSK	MCH	0.7	21	PASS
GFSK	HCH	0.78	21	PASS
$\pi/4$ DQPSK	LCH	-0.88	21	PASS
$\pi/4$ DQPSK	MCH	0.36	21	PASS
$\pi/4$ DQPSK	HCH	0.65	21	PASS
8DPSK	LCH	-1.12	21	PASS
8DPSK	MCH	0.5	21	PASS
8DPSK	HCH	0.6	21	PASS

Test Graph

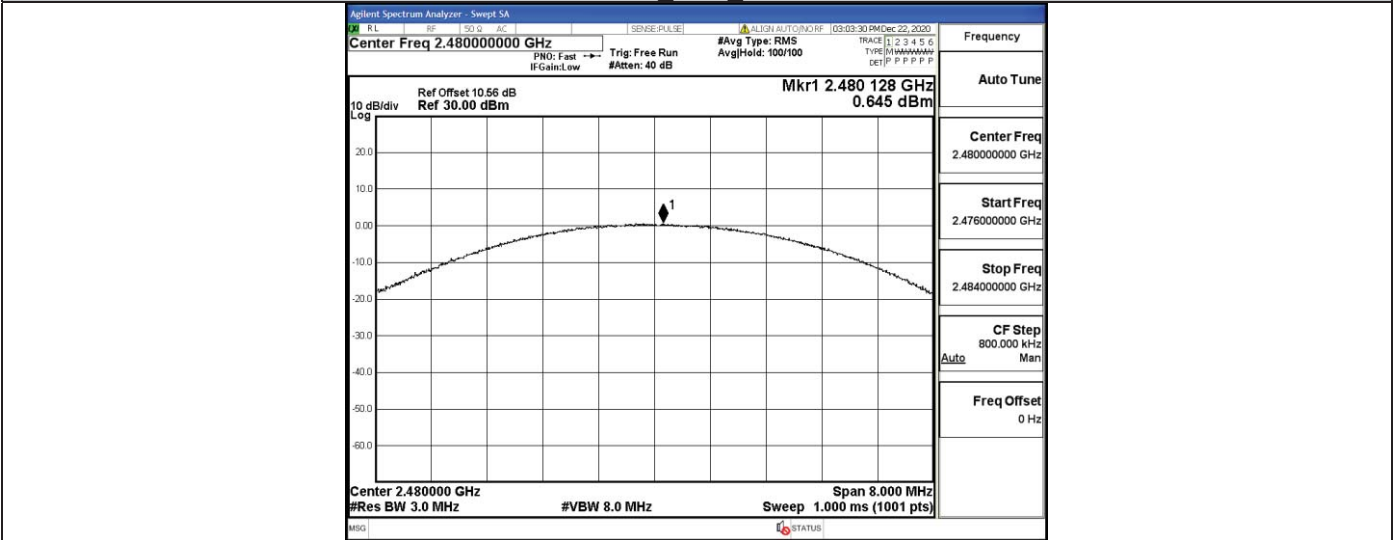




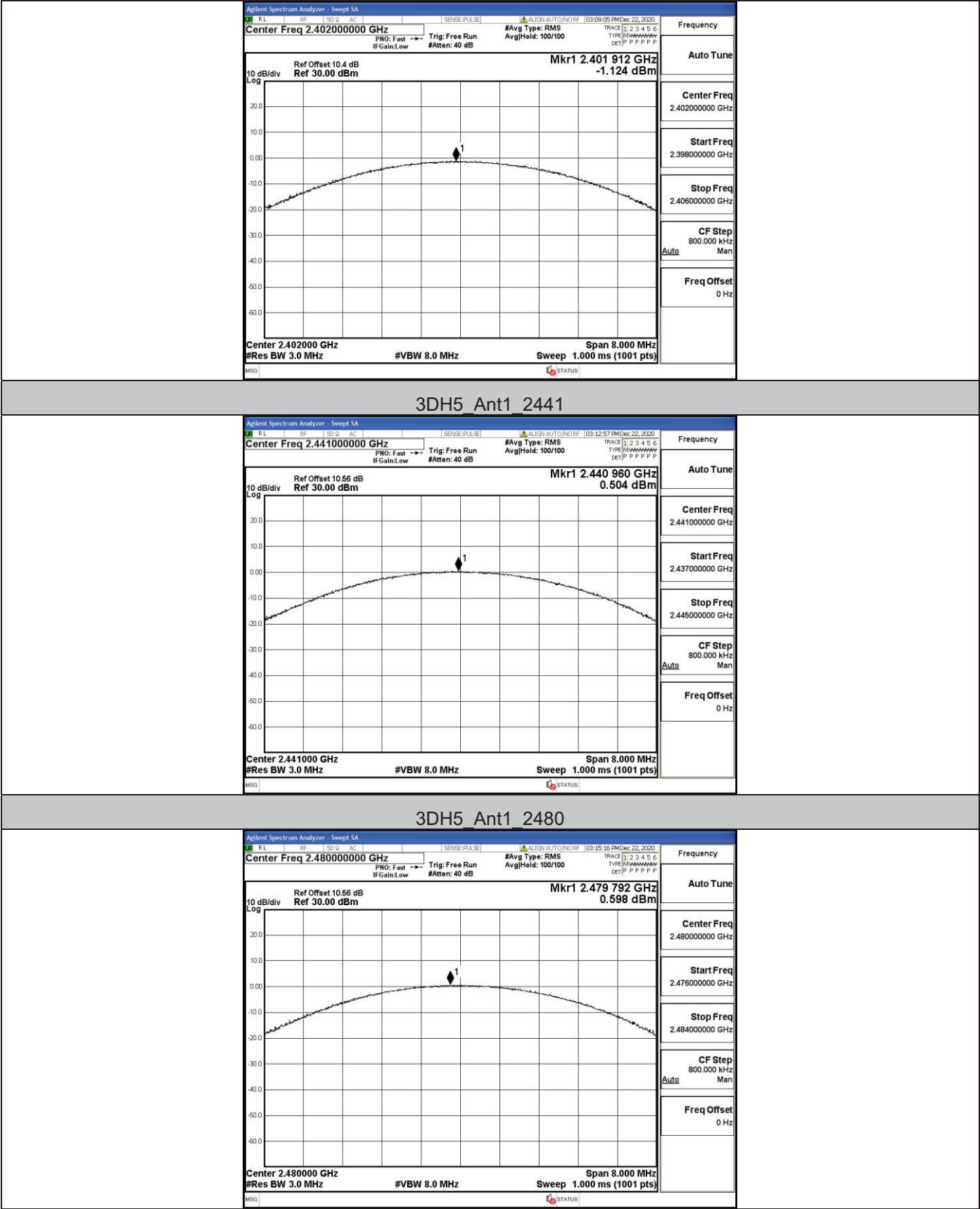
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402

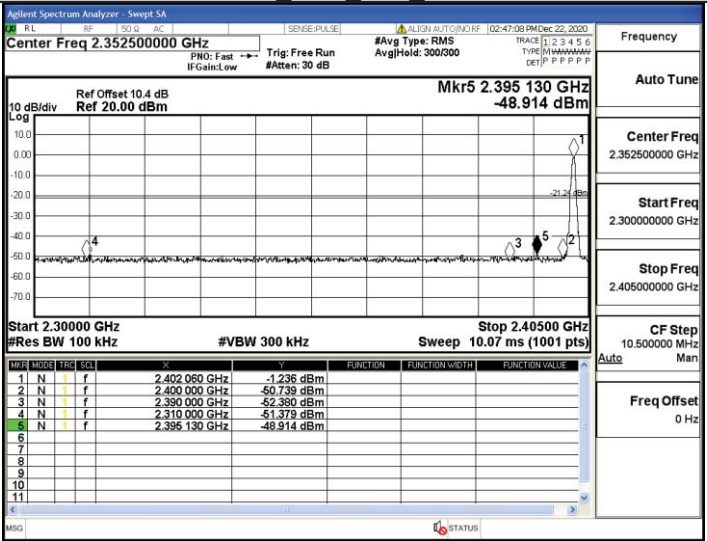


A.6 Band-edge for RF Conducted Emissions

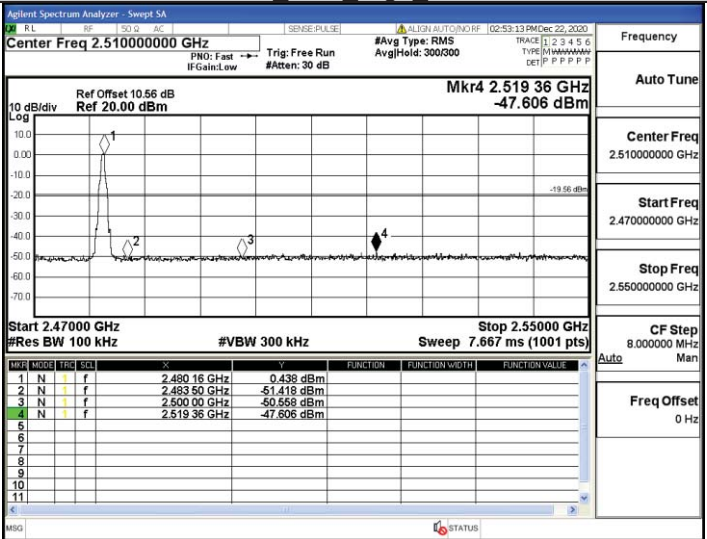
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.24	-48.91	<=-21.24	PASS
		High	2480	0.44	-47.61	<=-19.56	PASS
		Low	Hop_2402	-2.61	-49.67	<=-22.61	PASS
		High	Hop_2480	-0.43	-48.05	<=-20.43	PASS
2DH5	Ant1	Low	2402	-2.52	-48.73	<=-22.52	PASS
		High	2480	-3.15	-48.32	<=-23.15	PASS
		Low	Hop_2402	-4.60	-49.31	<=-24.6	PASS
		High	Hop_2480	-3.33	-48.33	<=-23.33	PASS
3DH5	Ant1	Low	2402	-2.64	-49.39	<=-22.64	PASS
		High	2480	-1.00	-47.81	<=-21	PASS
		Low	Hop_2402	-3.08	-49.51	<=-23.08	PASS
		High	Hop_2480	-3.57	-47.87	<=-23.57	PASS

Test Graph

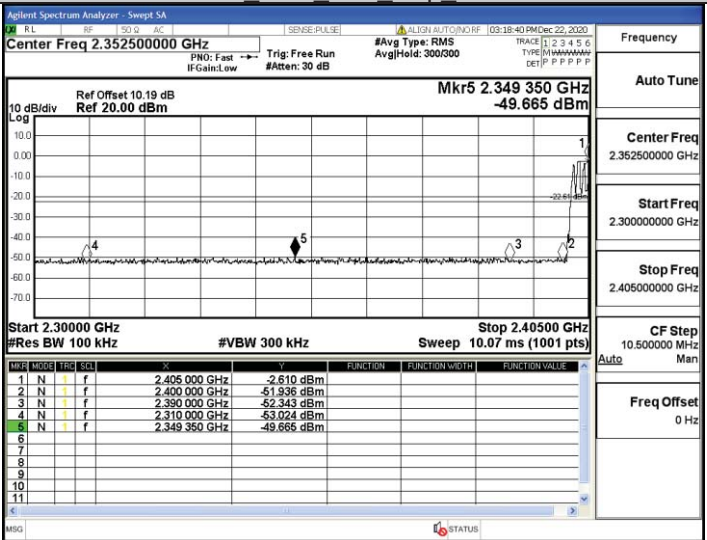
DH5_Ant1_Low_2402



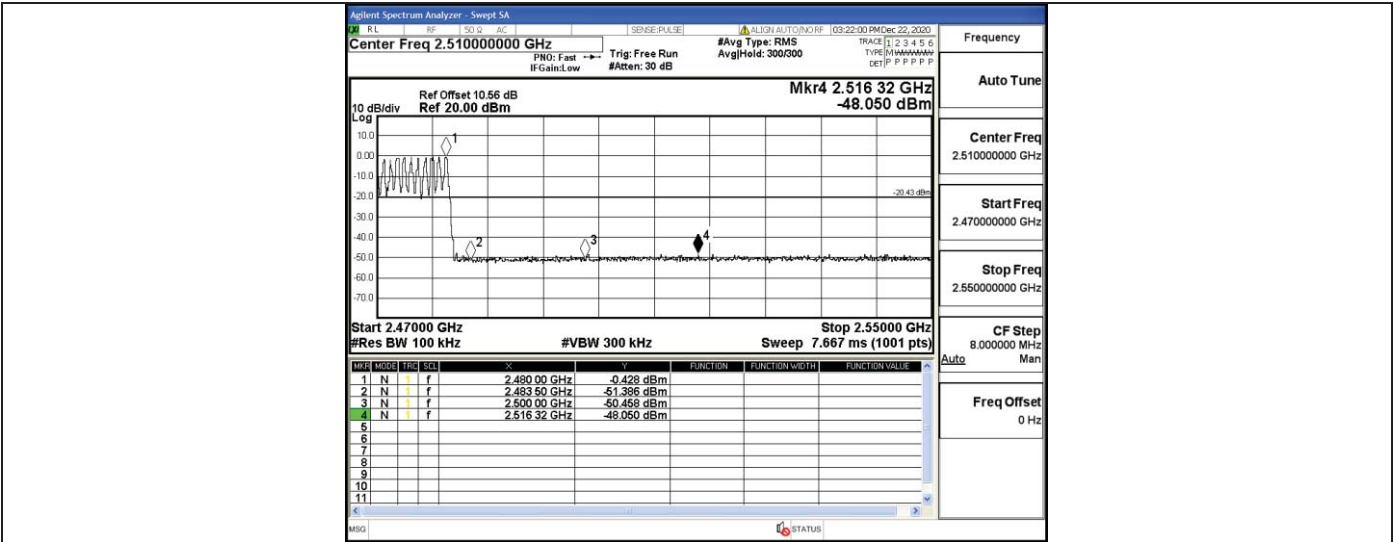
DH5_Ant1_High_2480



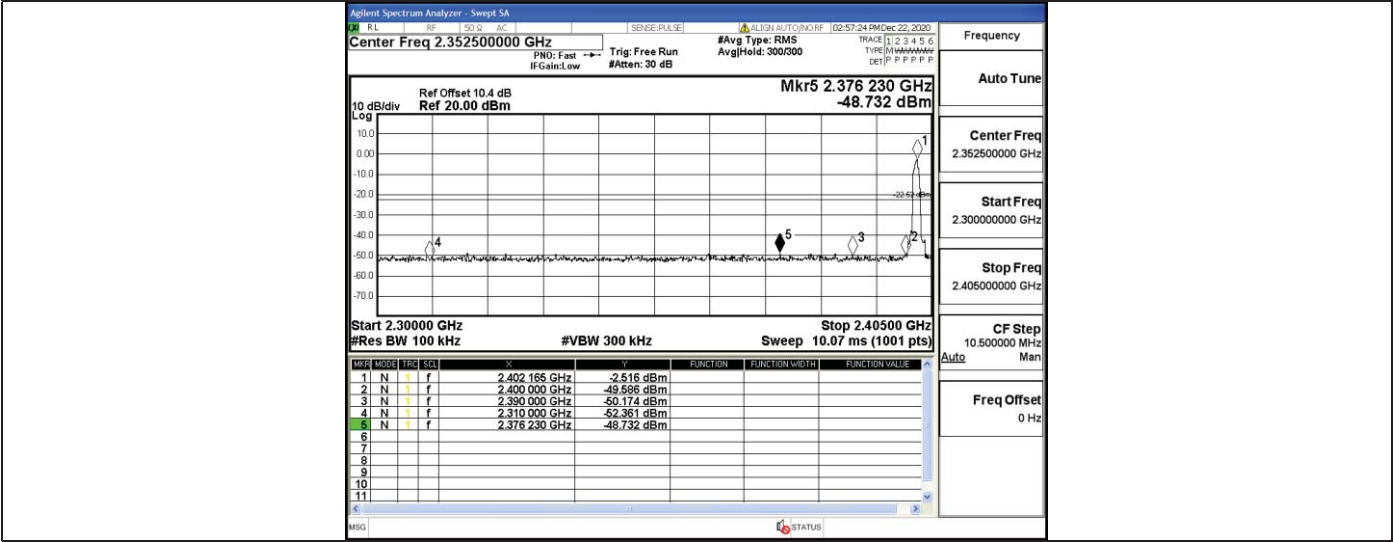
DH5_Ant1_Low_Hop_2402



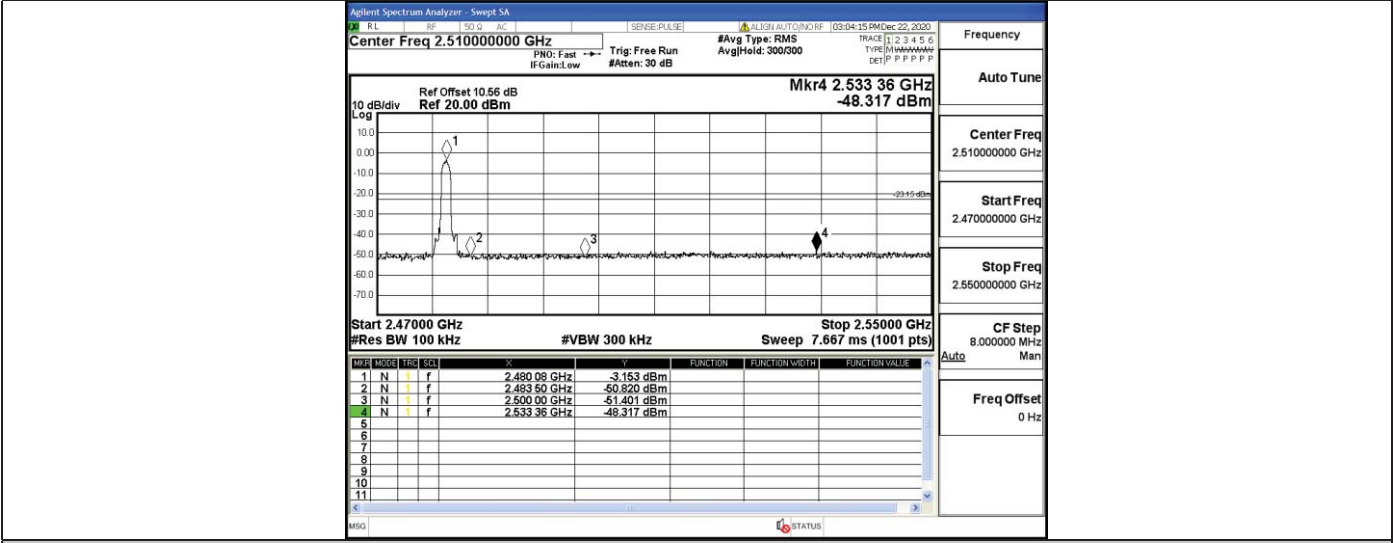
DH5_Ant1_High_Hop_2480



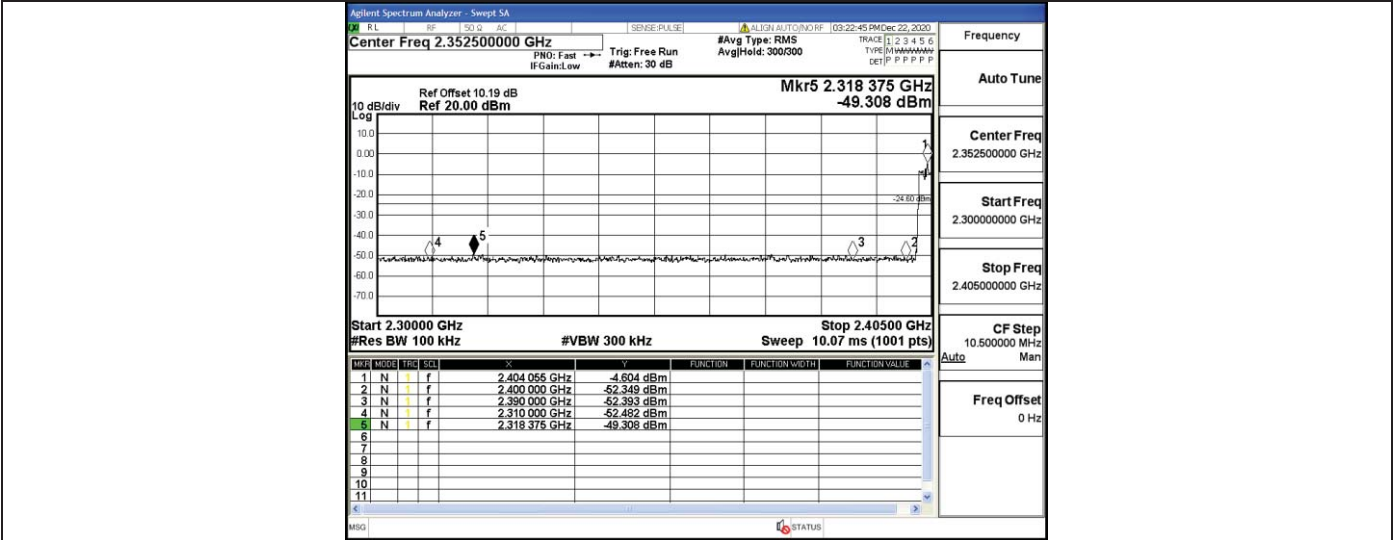
2DH5_Ant1_Low_2402



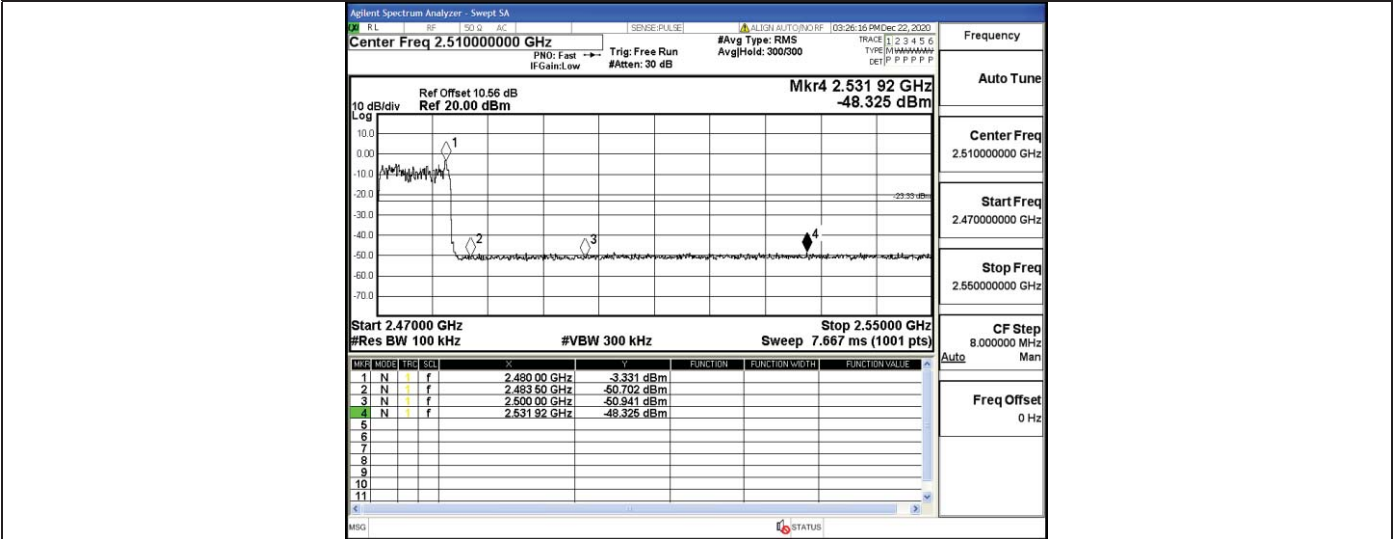
2DH5_Ant1_High_2480



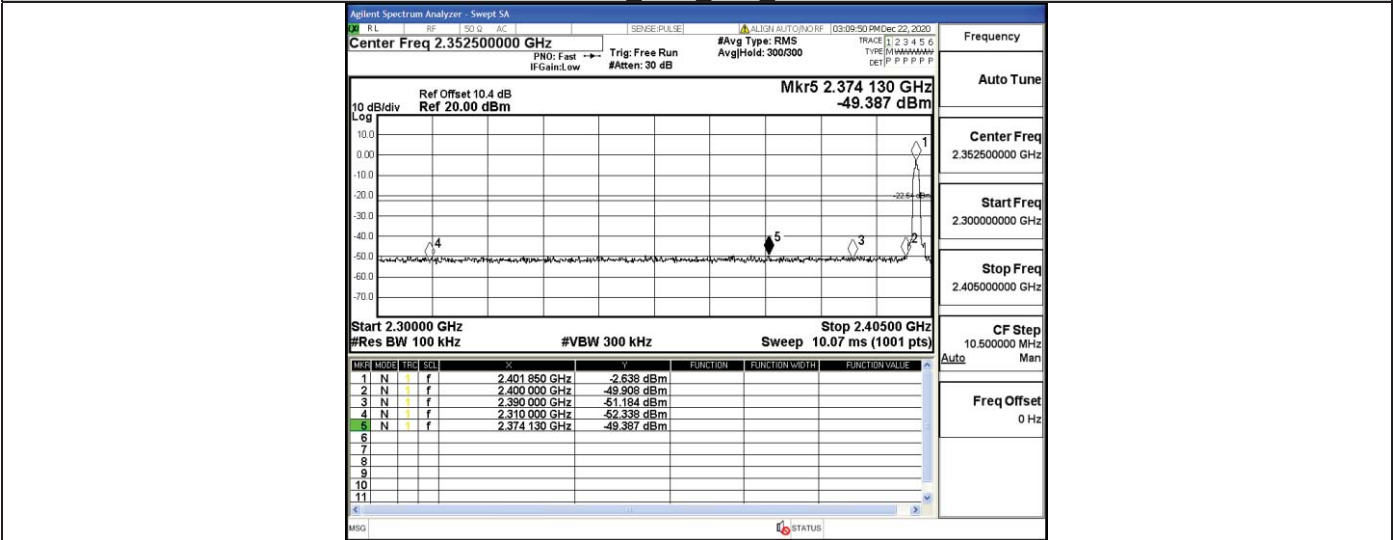
2DH5_Ant1_Low_Hop_2402



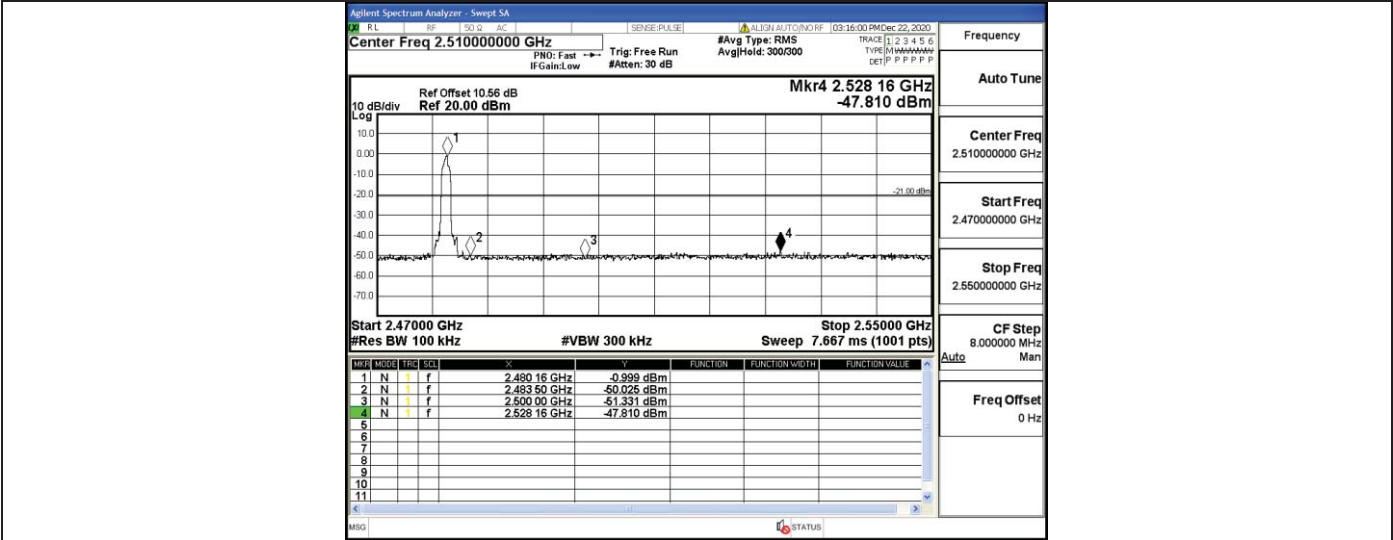
2DH5 Ant1 High Hop 2480



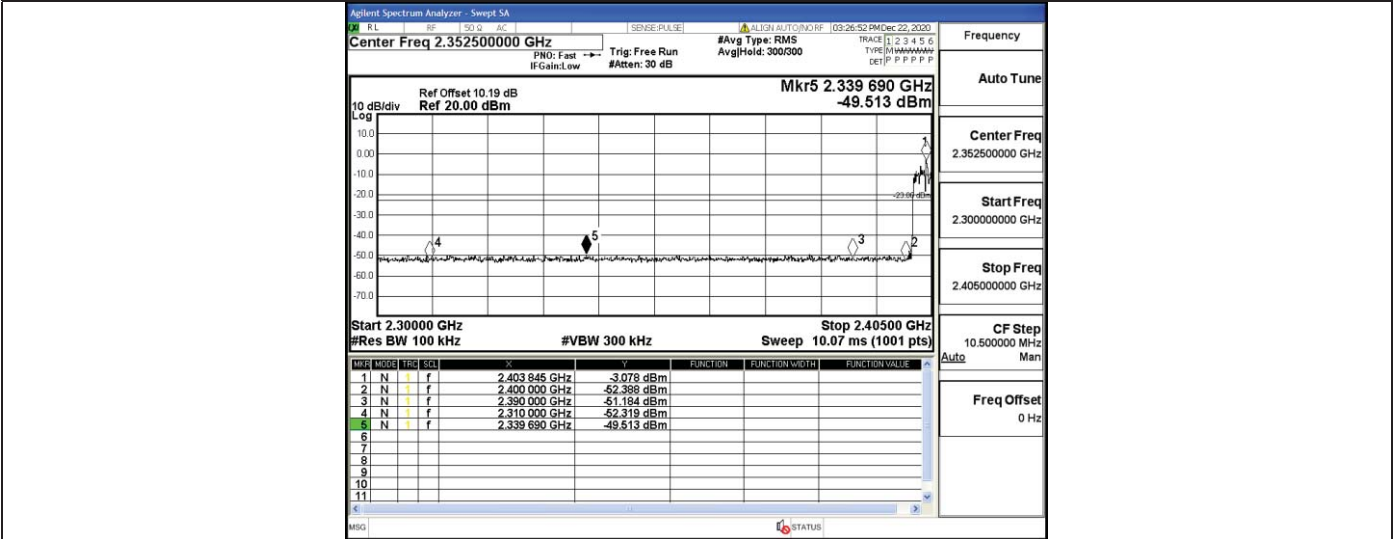
3DH5 Ant1 Low 2402



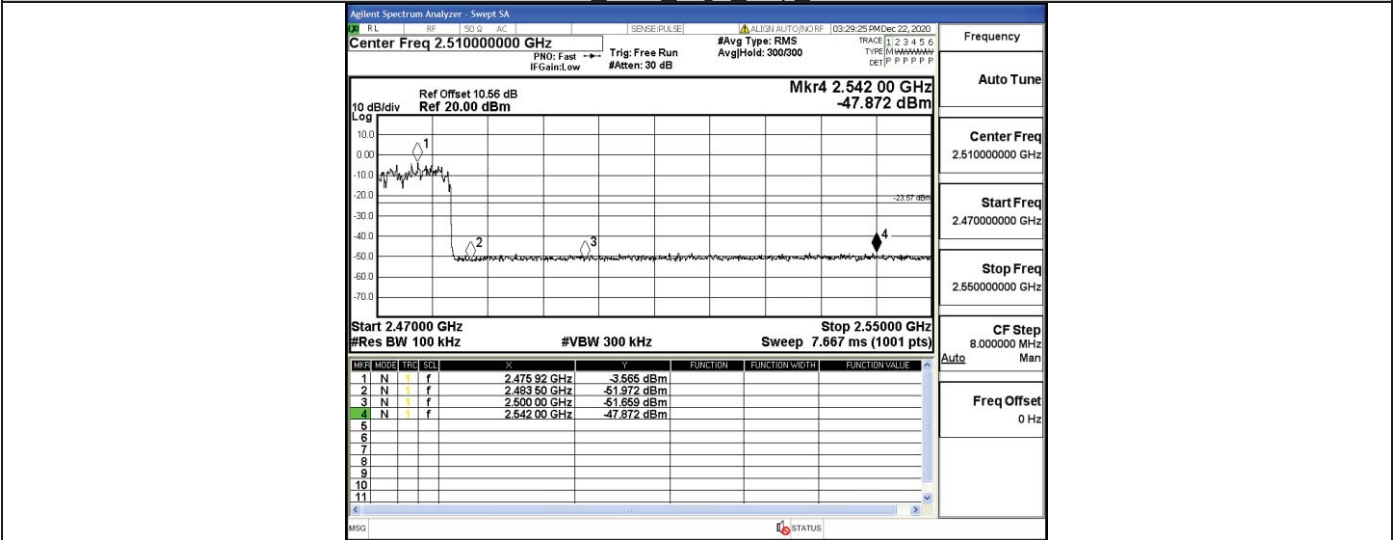
3DH5 Ant1 High 2480



3DH5 Ant1 Low Hop 2402

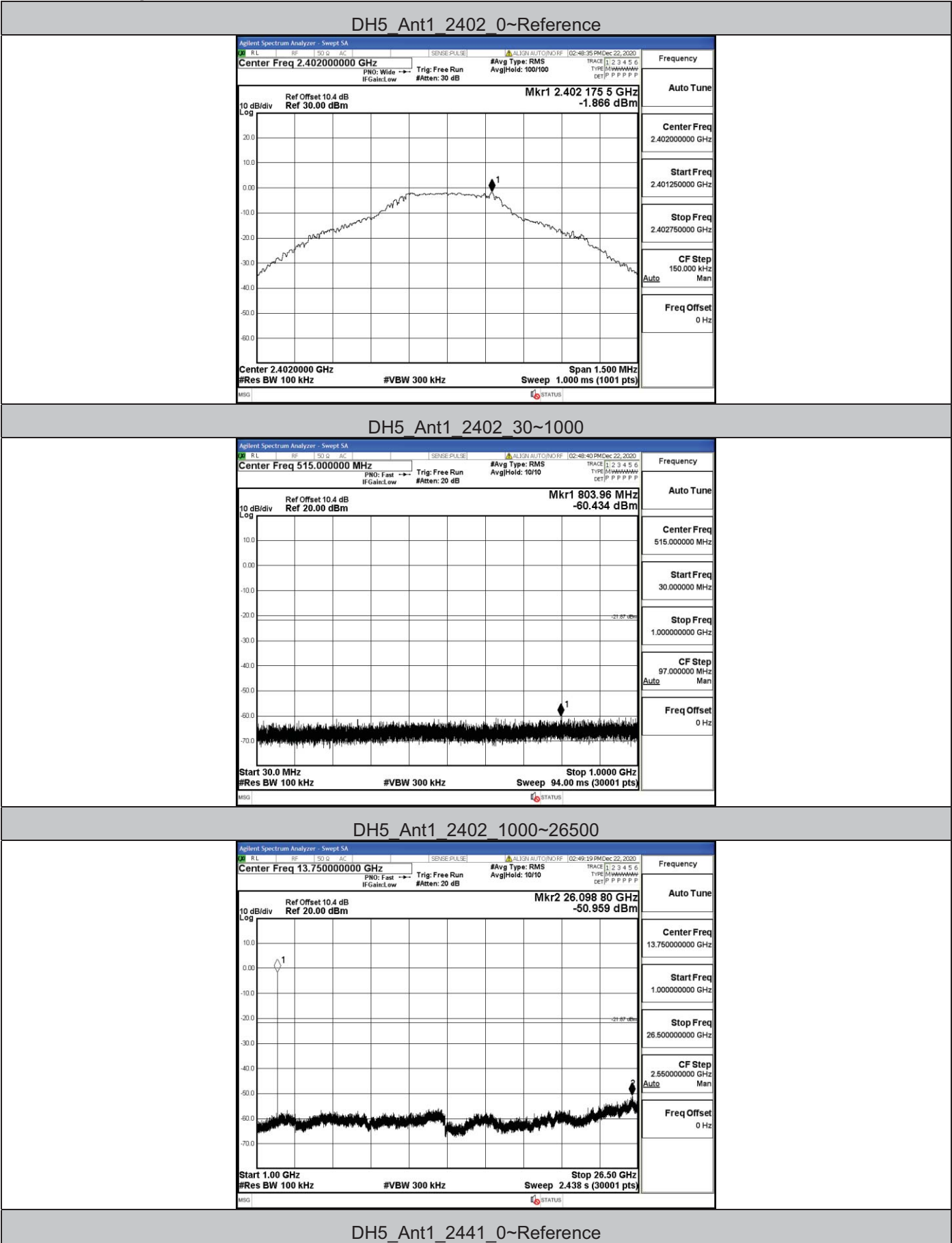


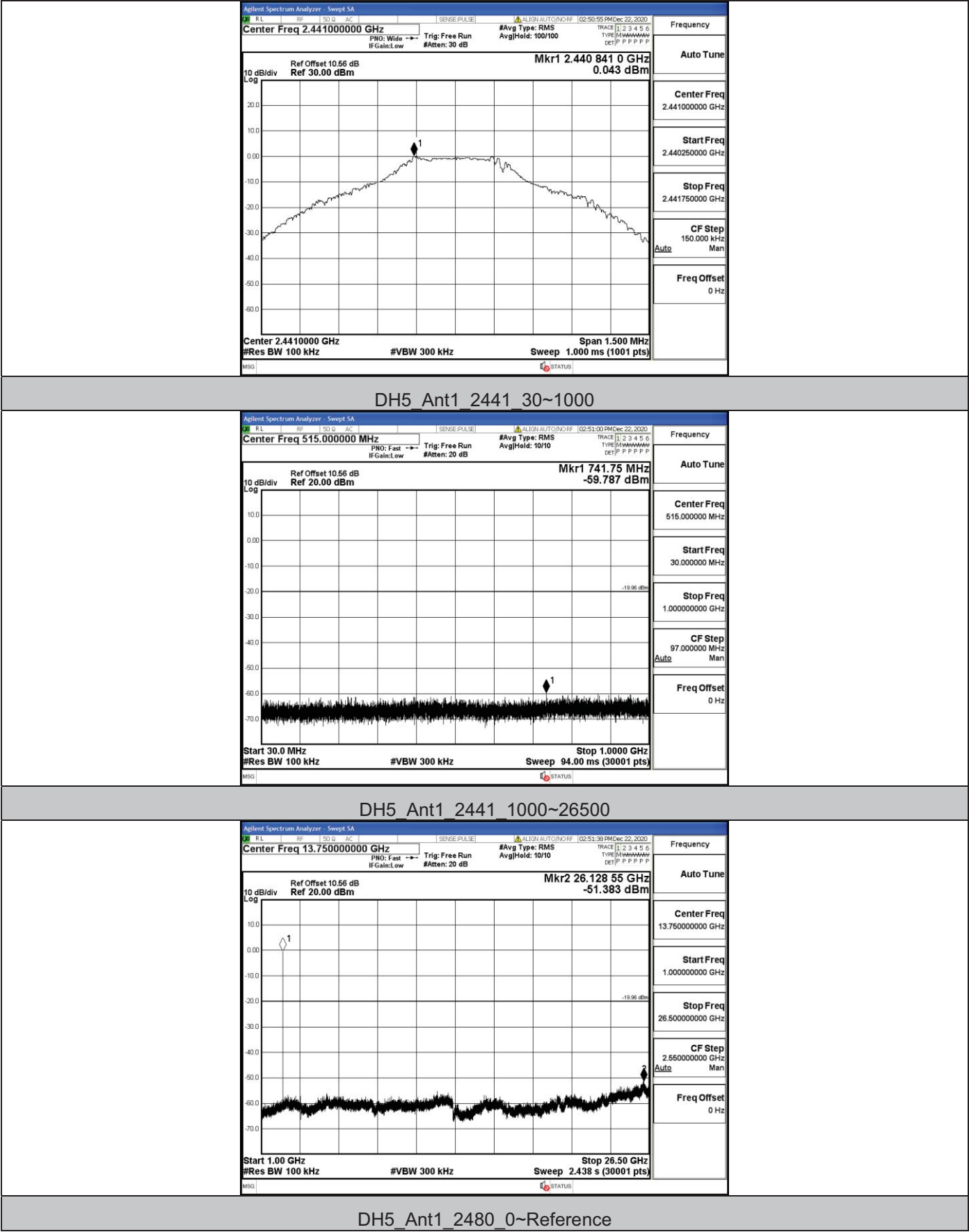
3DH5 Ant1 High Hop 2480

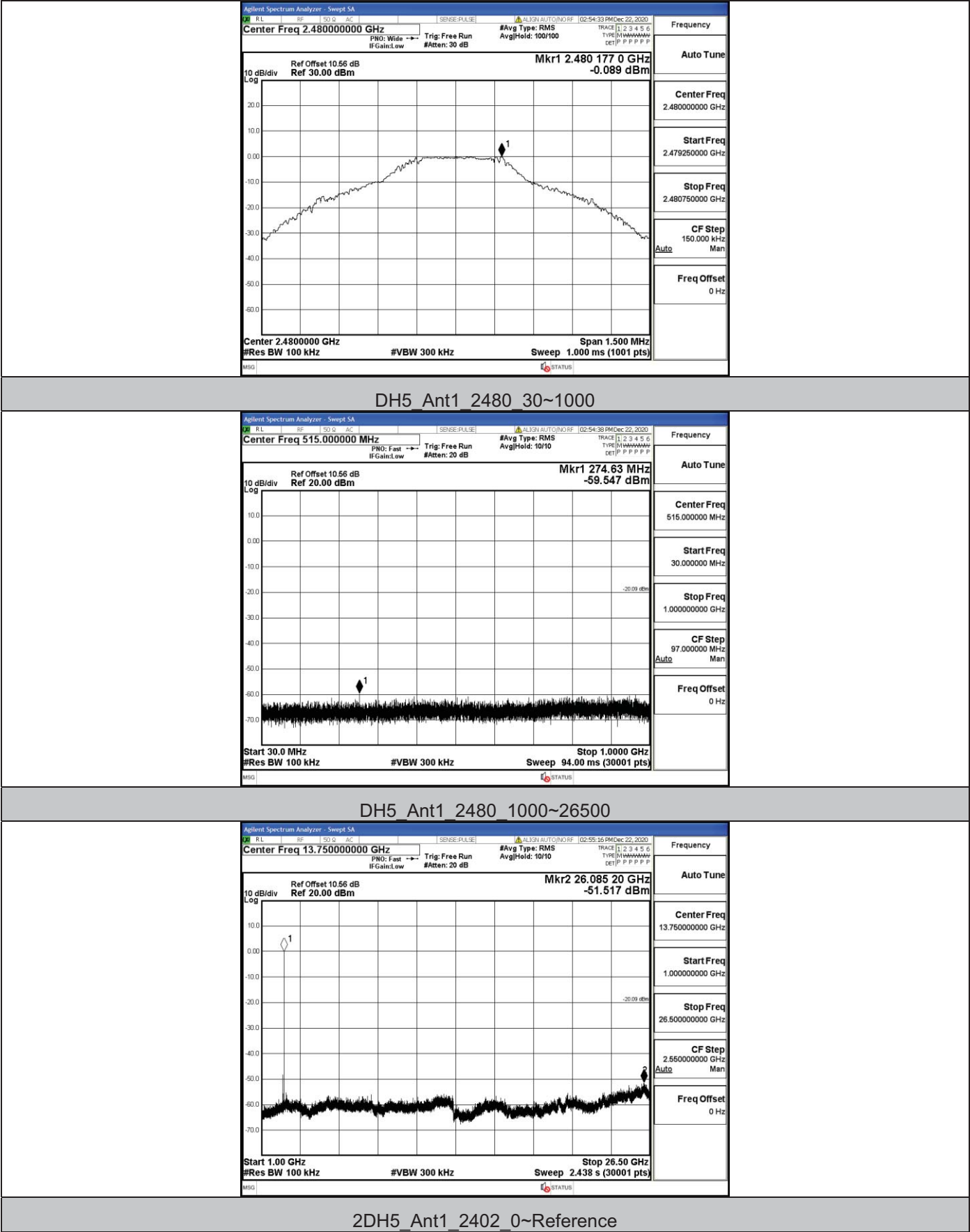


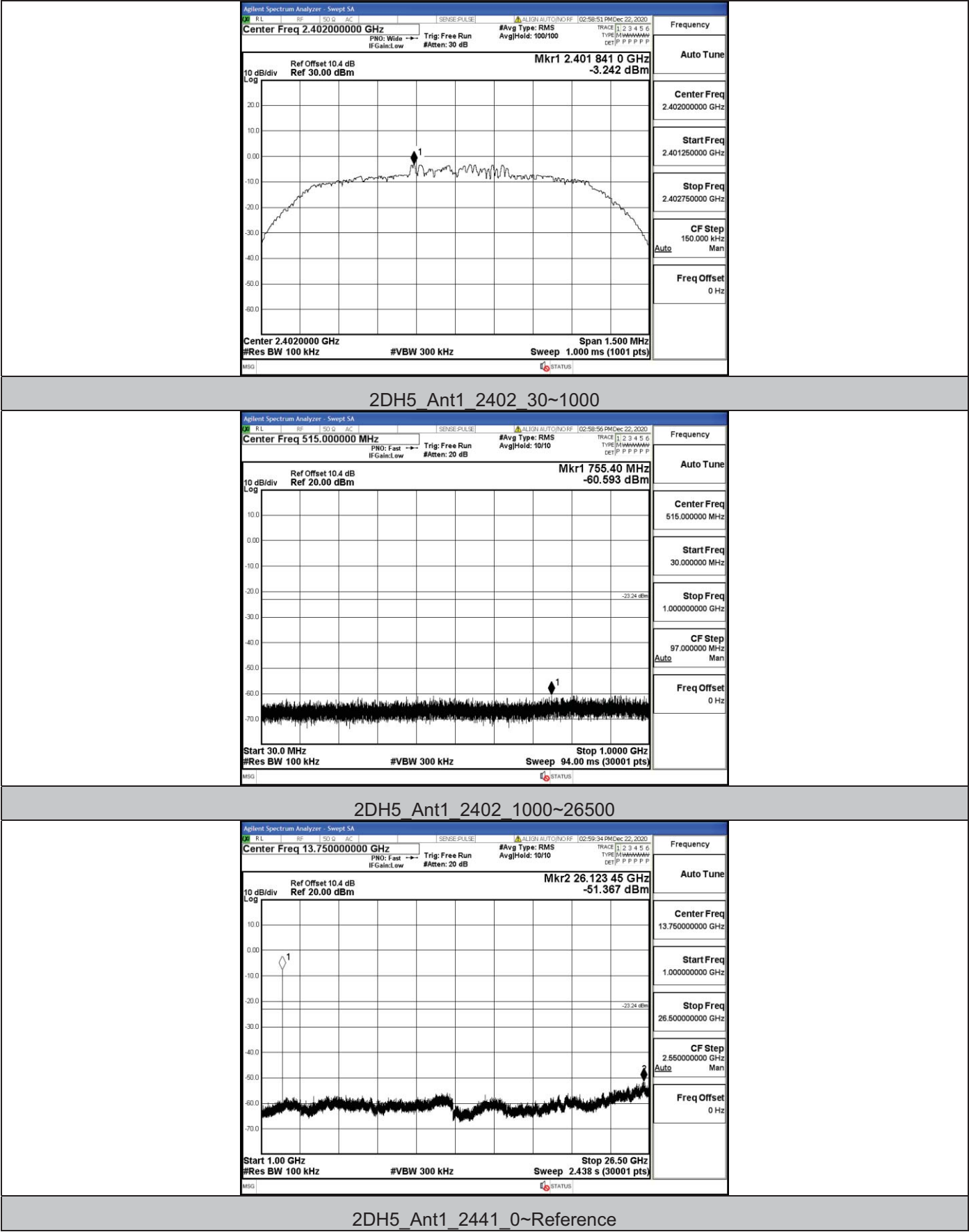
A.7 RF Conducted Spurious Emissions

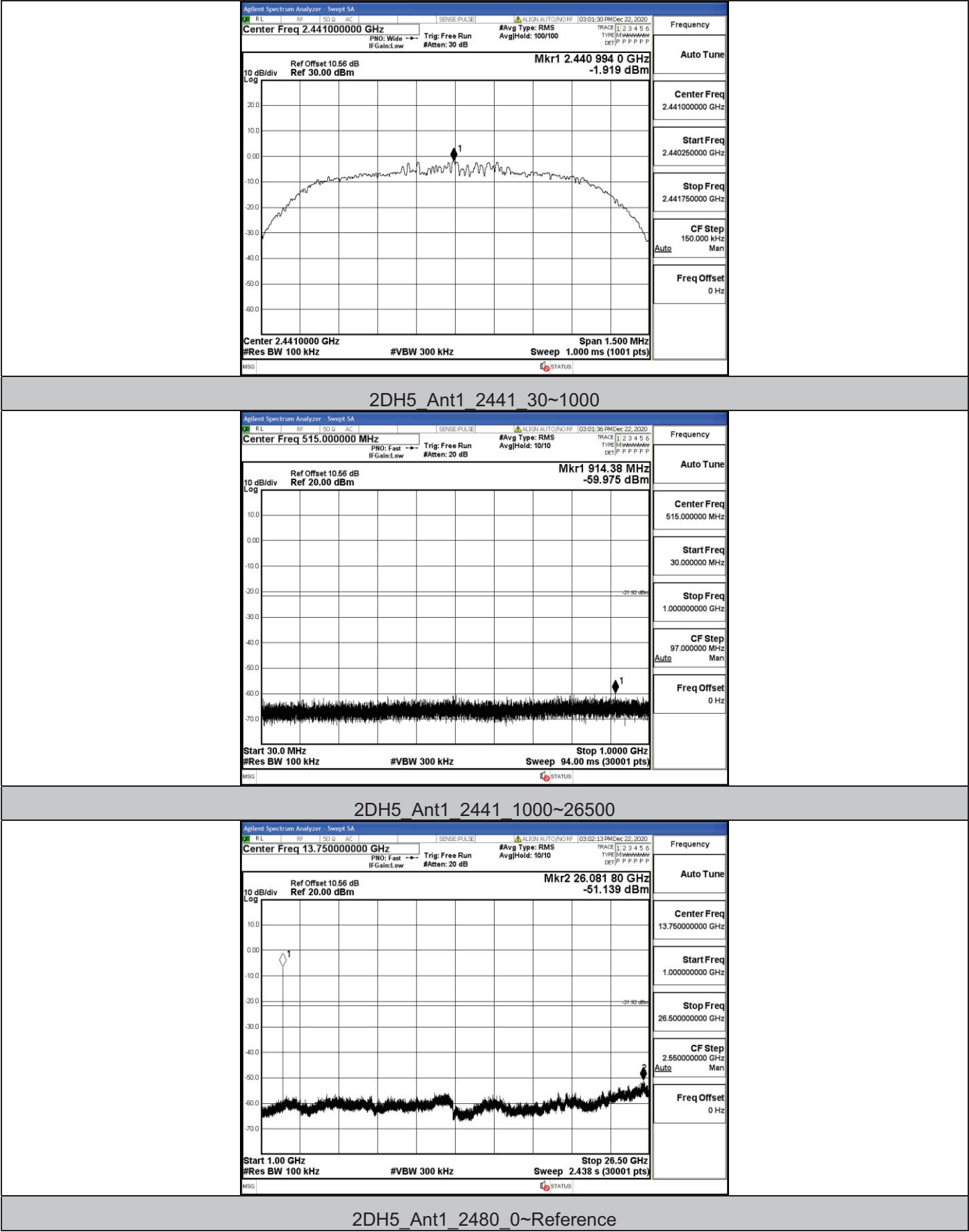
Test Graph

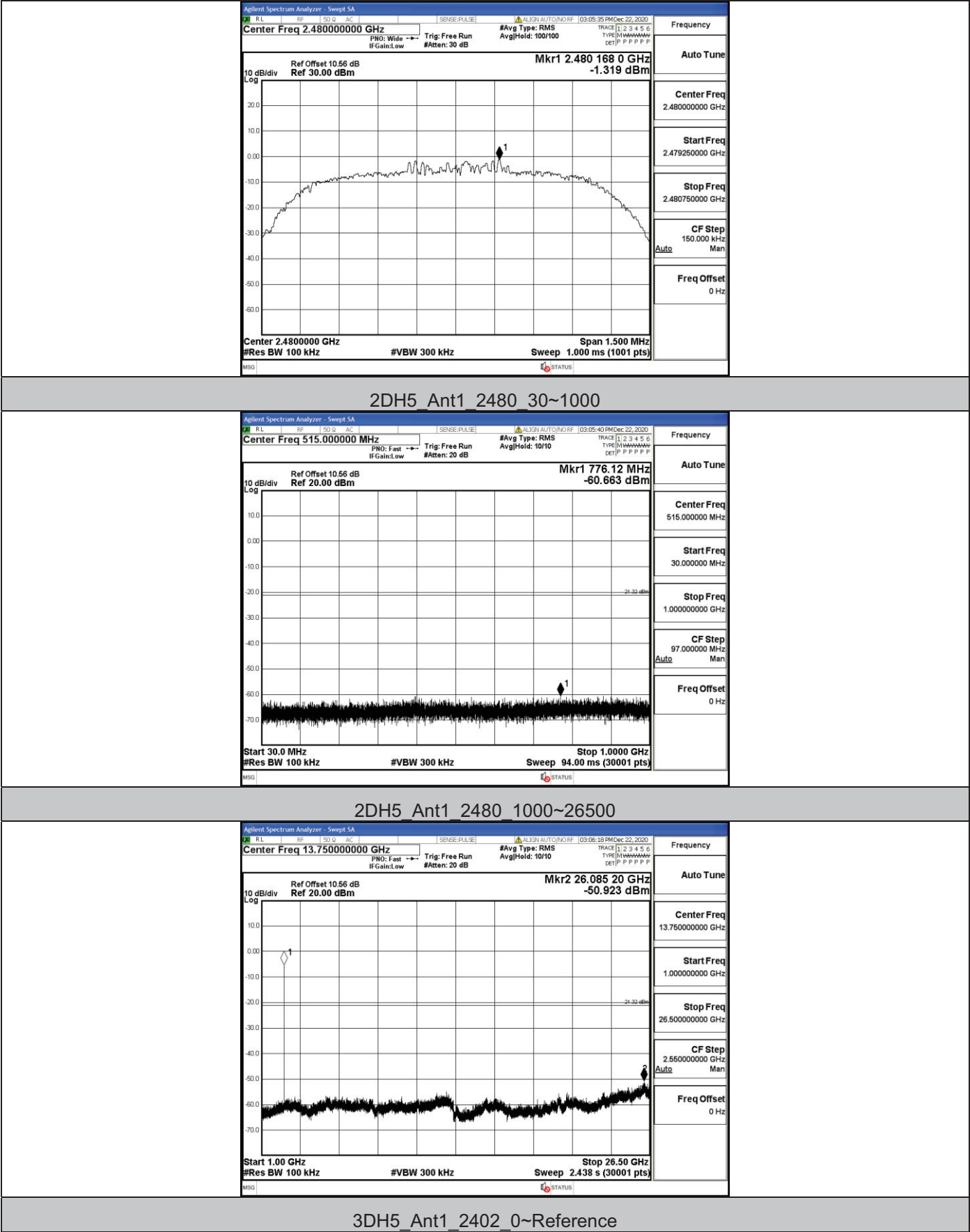


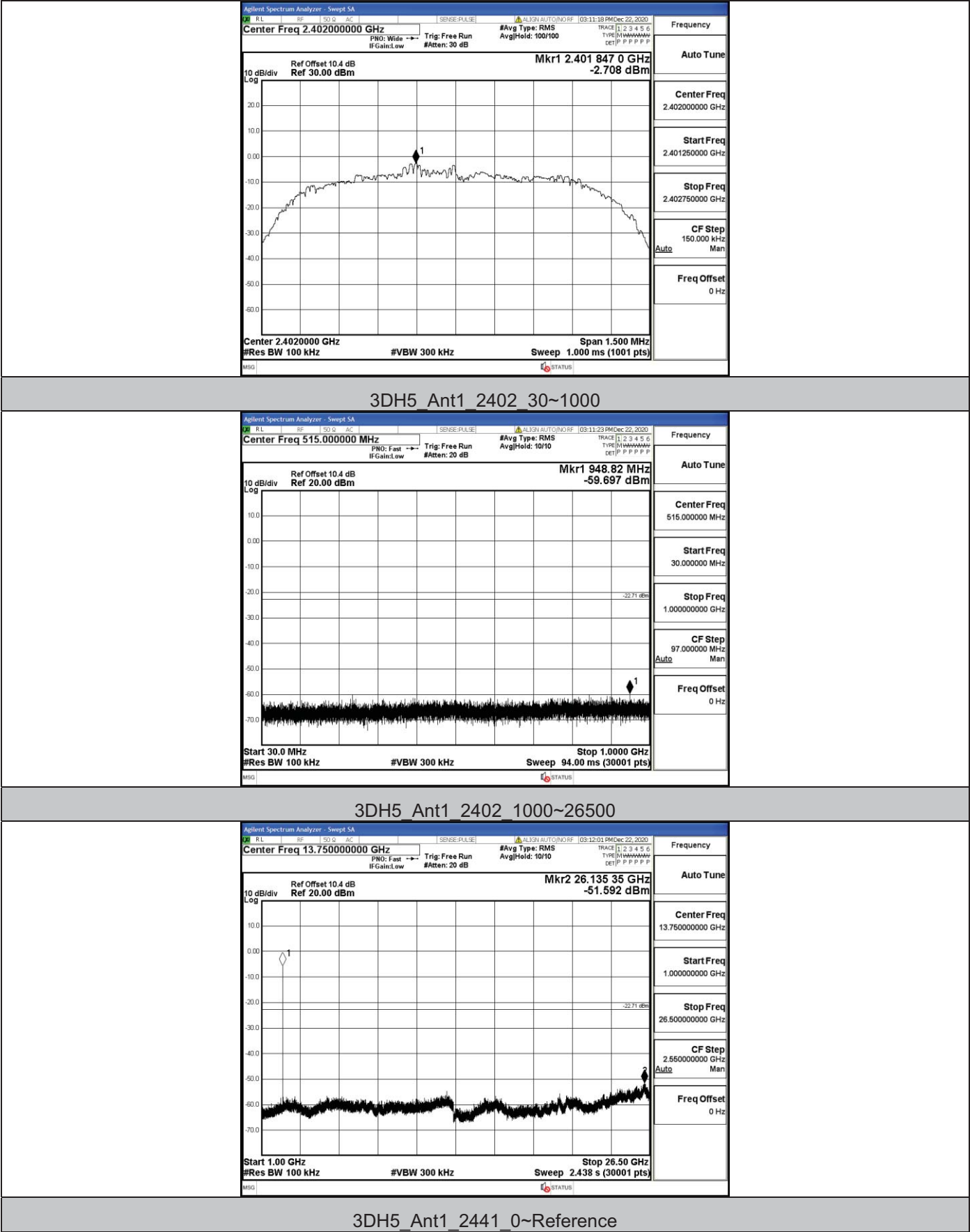


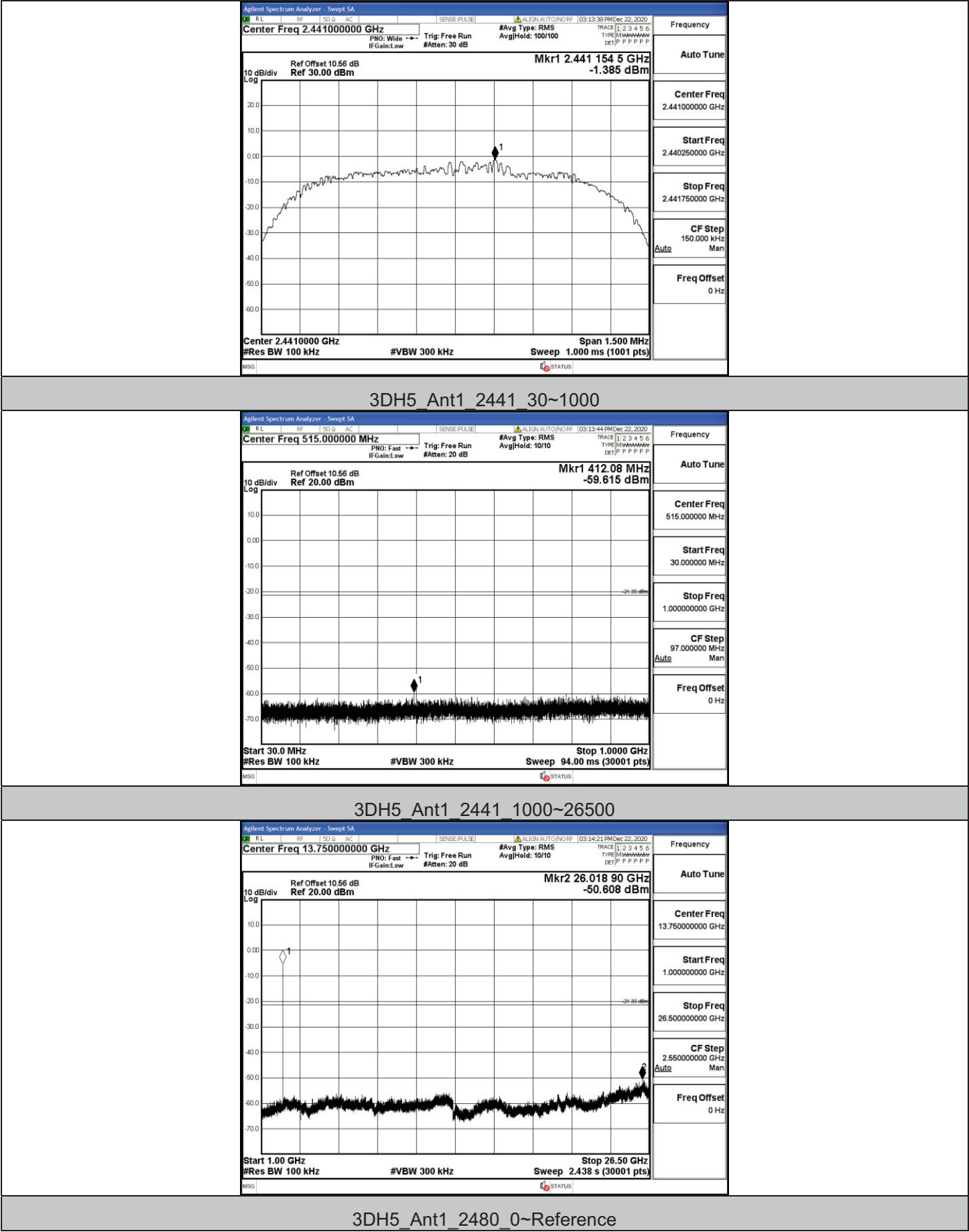


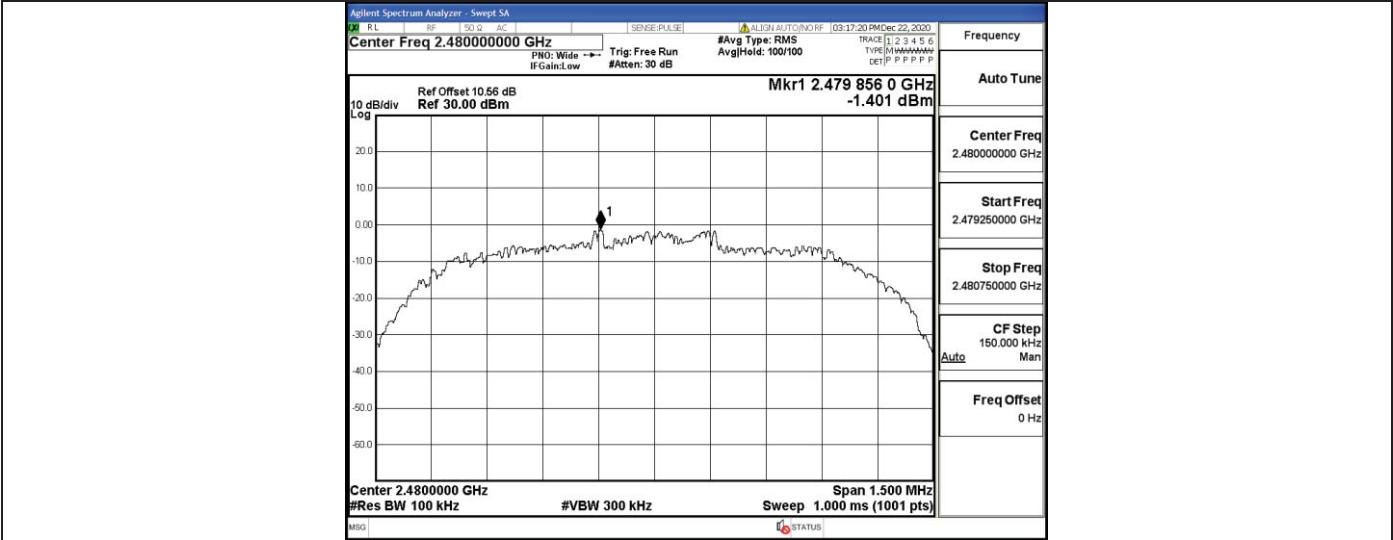




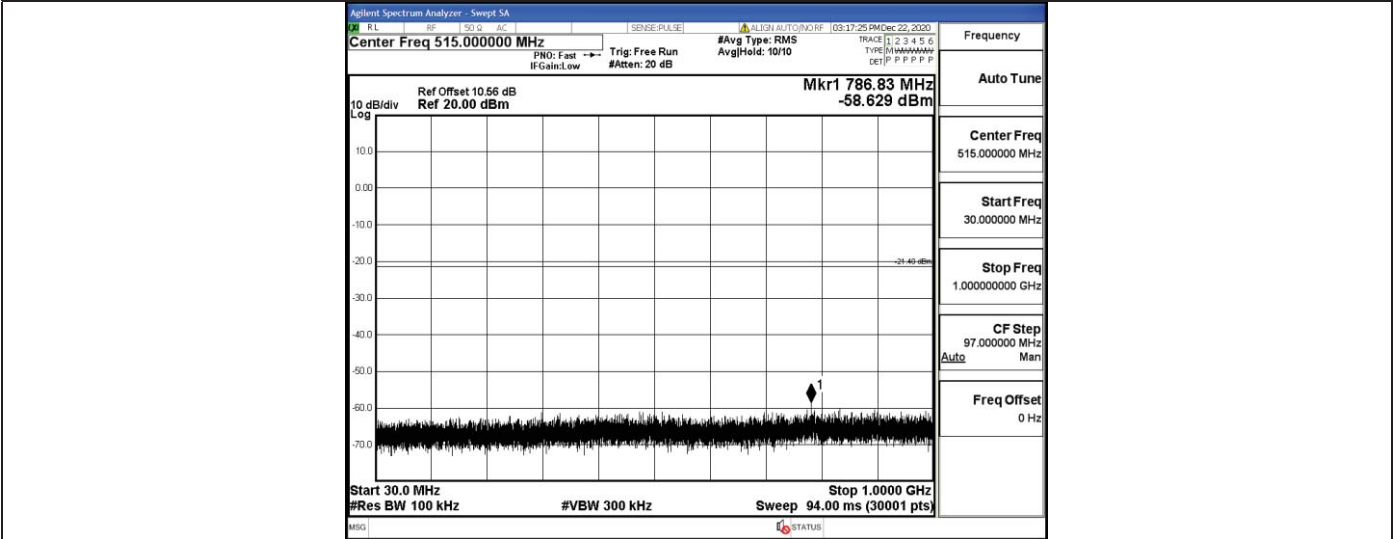




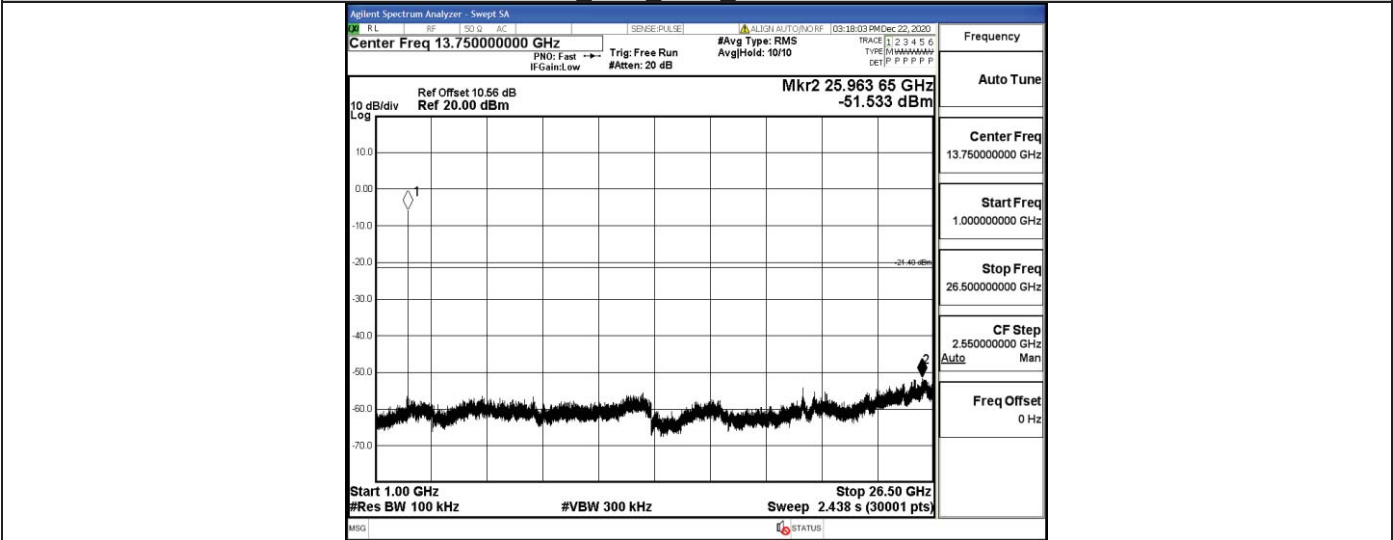




3DH5 Ant1 2480 30~1000



3DH5 - Ant1 2480 1000~26500



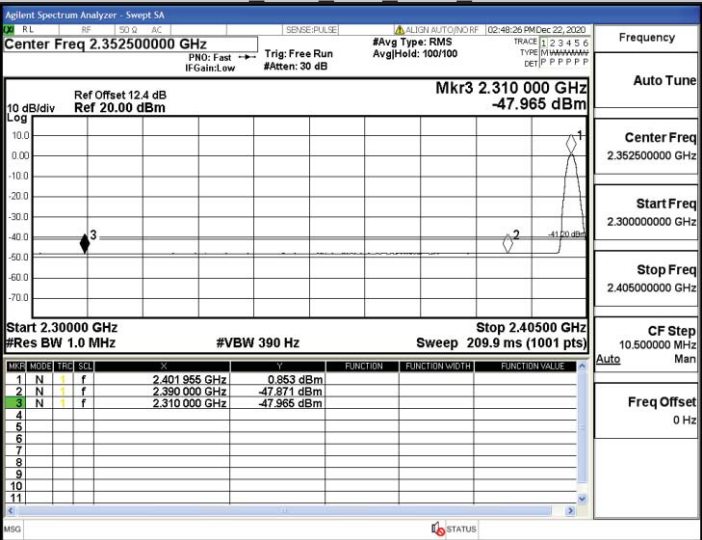
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel(MHz)	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-47.97	<=-41.20	PASS
				AV	2390.000	-47.87	<=-41.20	PASS
				Peak	2310.000	-39.86	<=-21.20	PASS
				Peak	2390.000	-39.73	<=-21.20	PASS
		High	2480	AV	2483.500	-47.16	<=-41.20	PASS
				AV	2500.000	-47.01	<=-41.20	PASS
				Peak	2483.500	-41.08	<=-21.20	PASS
				Peak	2500.000	-40.56	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.08	<=-41.20	PASS
				AV	2390.000	-47.82	<=-41.20	PASS
				Peak	2310.000	-40.65	<=-21.20	PASS
				Peak	2390.000	-40.77	<=-21.20	PASS
		High	2480	AV	2483.500	-47.05	<=-41.20	PASS
				AV	2500.000	-47.15	<=-41.20	PASS
				Peak	2483.500	-39.39	<=-21.20	PASS
				Peak	2500.000	-40.34	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-47.96	<=-41.20	PASS
				AV	2390.000	-47.83	<=-41.20	PASS
				Peak	2310.000	-38.45	<=-21.20	PASS
				Peak	2390.000	-40.3	<=-21.20	PASS
		High	2480	AV	2483.500	-47.19	<=-41.20	PASS
				AV	2500.000	-47.02	<=-41.20	PASS
				Peak	2483.500	-40.48	<=-21.20	PASS
				Peak	2500.000	-39.69	<=-21.20	PASS

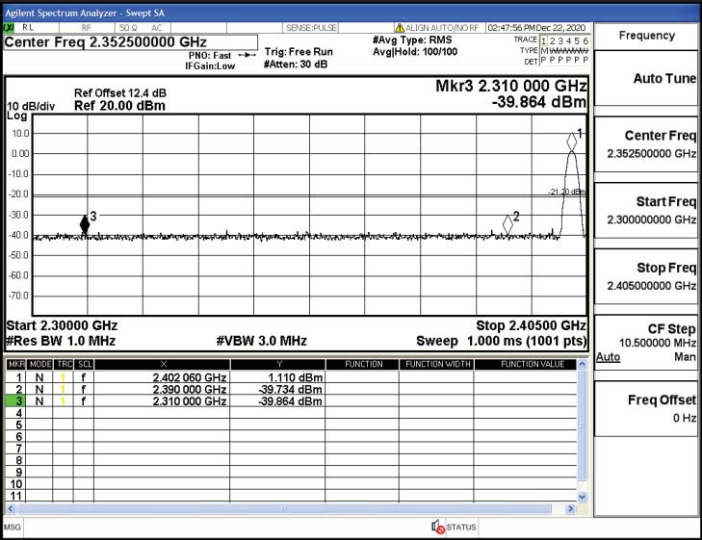
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.

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.

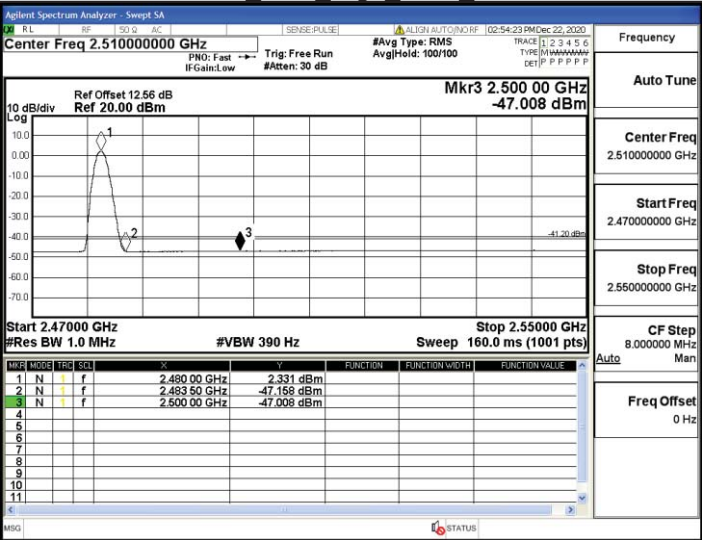
DH5 Ant1 Low 2402 AV



DH5 Ant1 Low 2402 Peak



DH5 Ant1 High 2480 AV



DH5 Ant1 High 2480 Peak

