

Appendix A

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

Product Name: Tablet PC

Trade Mark: Brightside

Test Model: BS701

FCC ID: 2AXX5BS701

Environmental Conditions

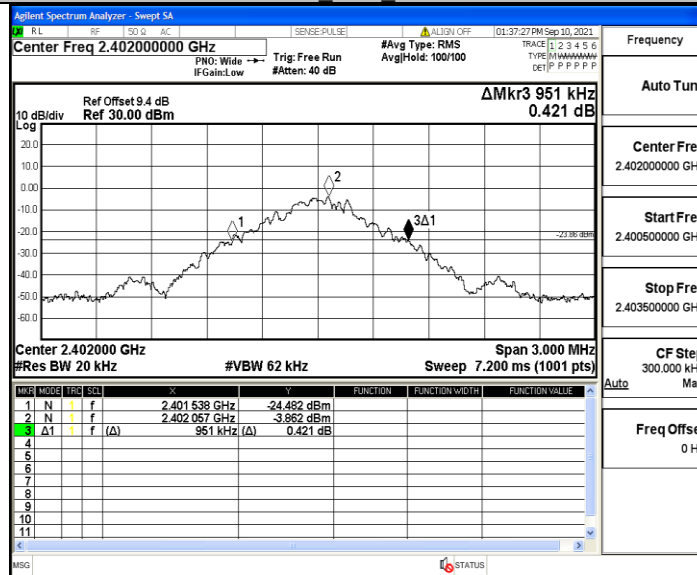
Temperature:	23.8℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

A.1 20 dB Bandwidth

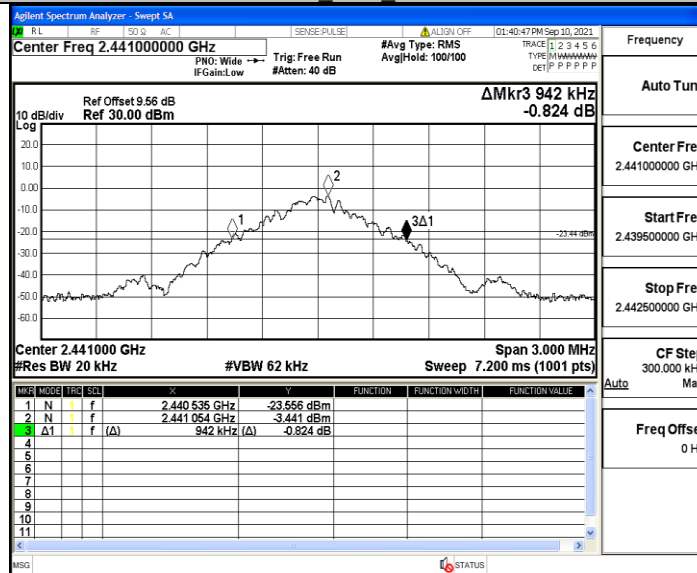
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.538	2402.489	Not Specified	PASS
		2441	0.942	2440.535	2441.477	Not Specified	PASS
		2480	0.936	2479.535	2480.471	Not Specified	PASS
2DH5	Ant1	2402	1.317	2401.337	2402.654	Not Specified	PASS
		2441	1.263	2440.364	2441.627	Not Specified	PASS
		2480	1.317	2479.337	2480.654	Not Specified	PASS
3DH5	Ant1	2402	1.269	2401.352	2402.621	Not Specified	PASS
		2441	1.260	2440.361	2441.621	Not Specified	PASS
		2480	1.299	2479.343	2480.642	Not Specified	PASS

Test Graph

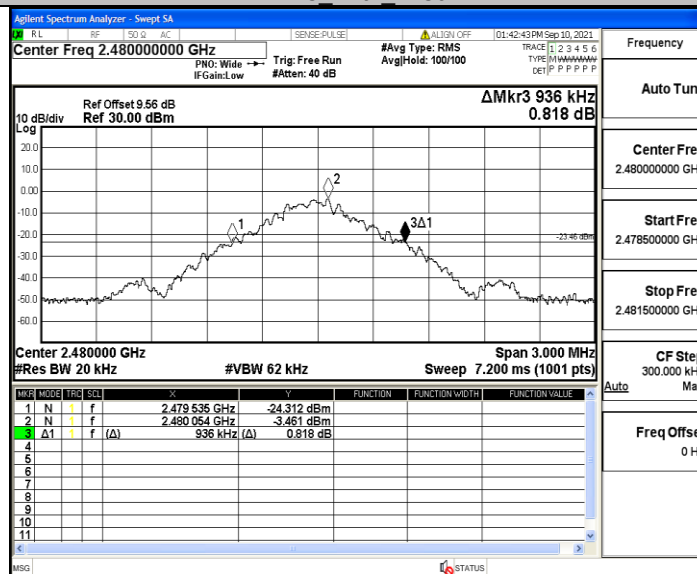
DH5_Ant1_2402



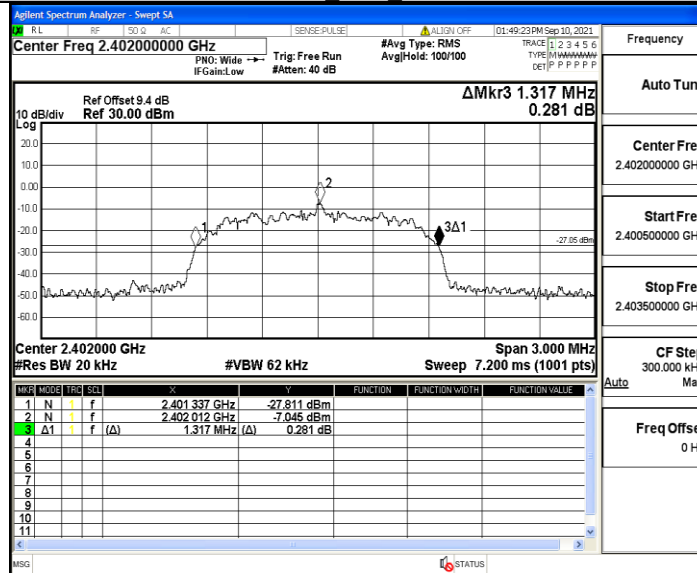
DH5_Ant1_2441



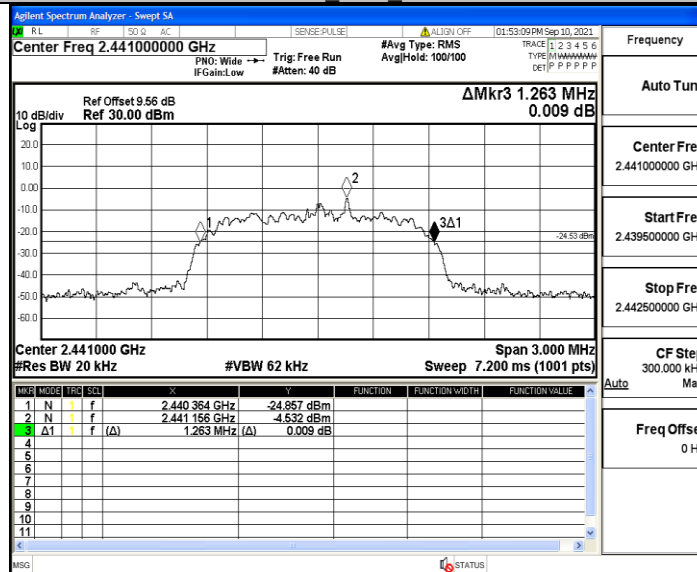
DH5_Ant1_2480



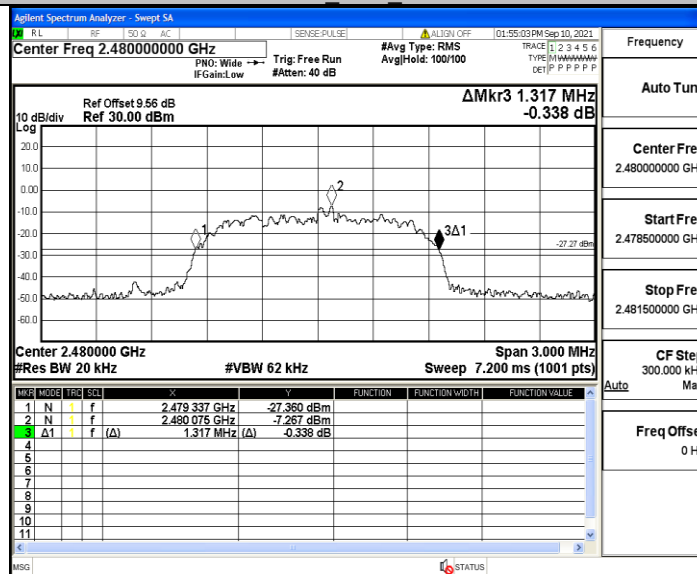
2DH5_Ant1_2402



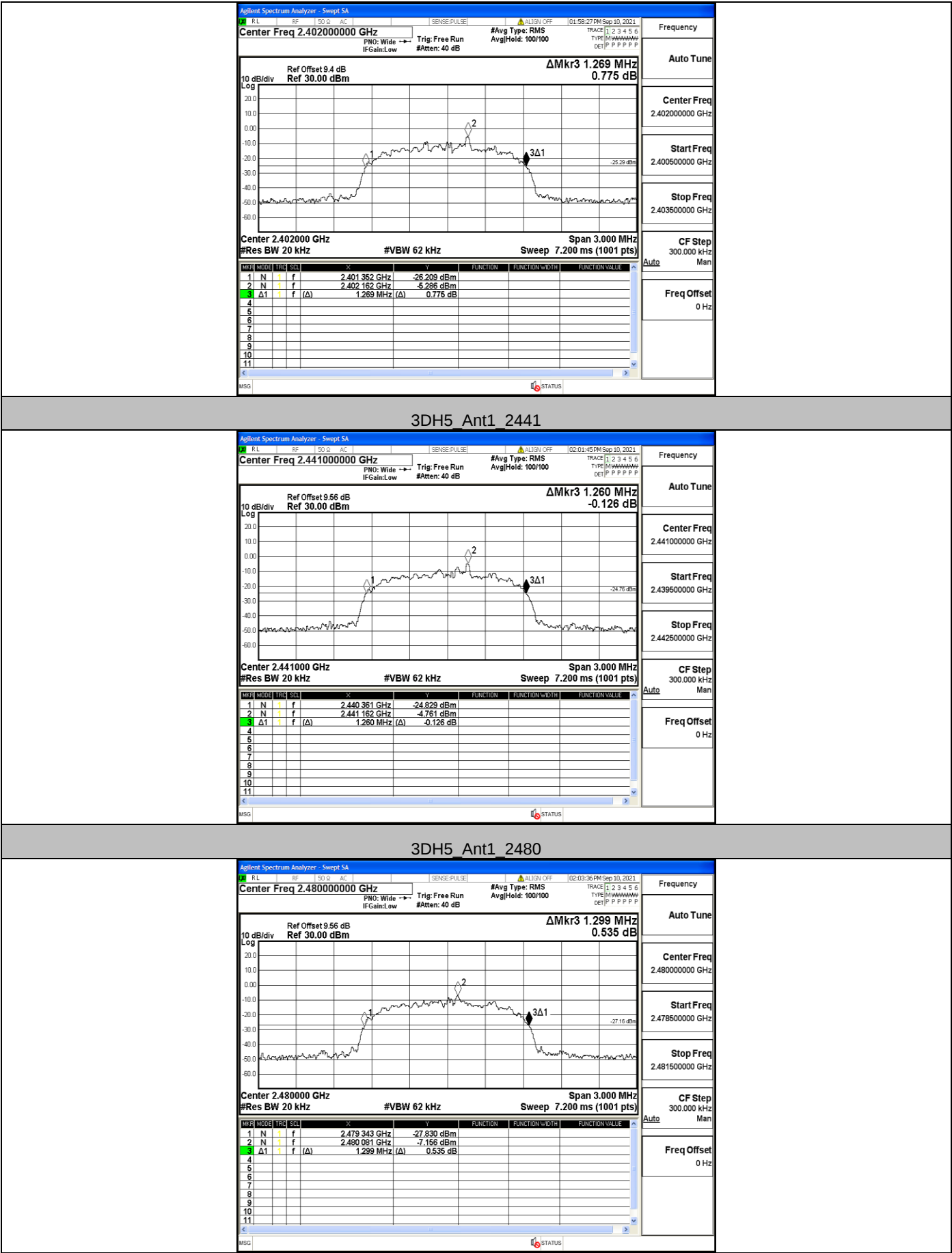
2DH5_Ant1_2441



2DH5_Ant1_2480

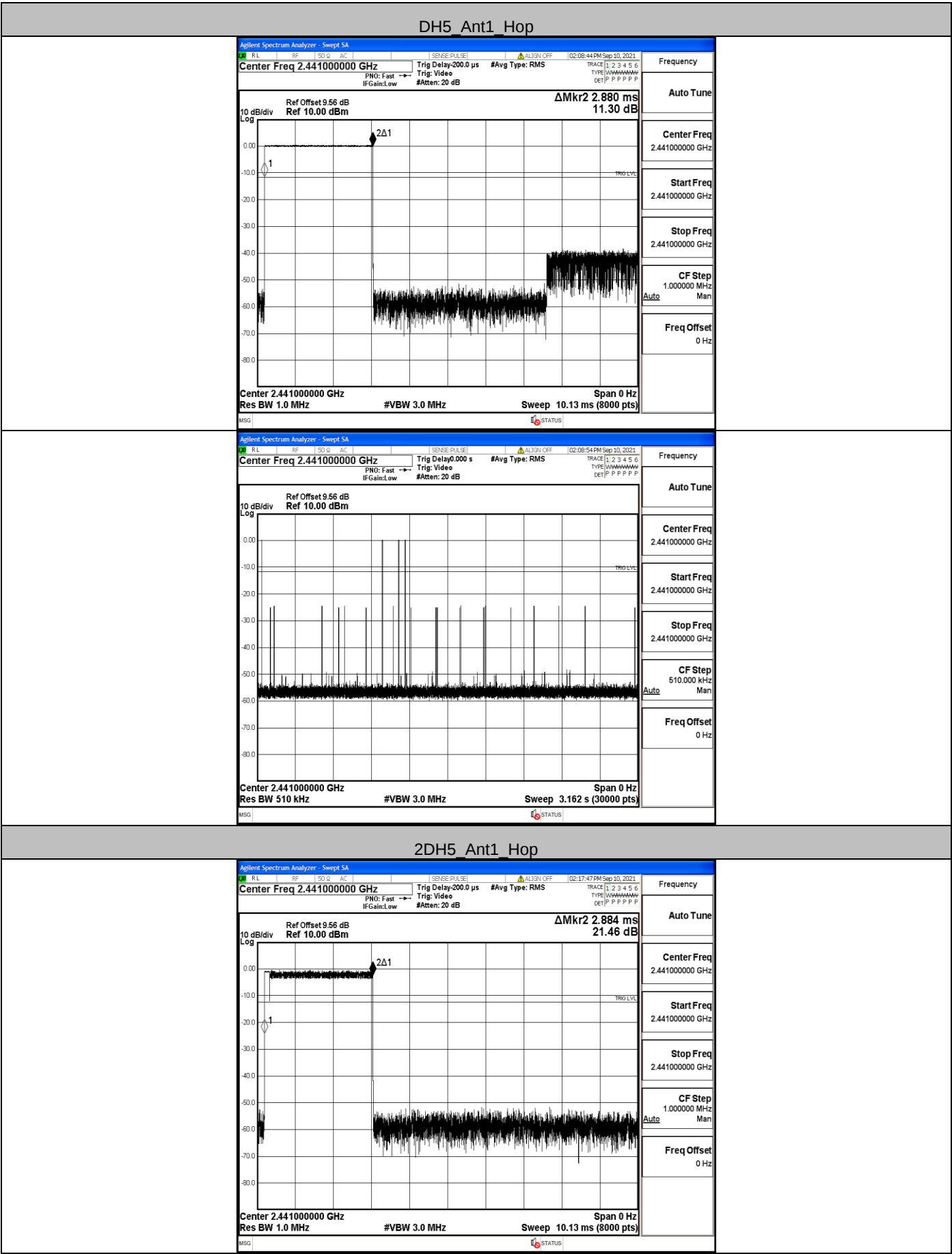


3DH5_Ant1_2402



A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	50	0.144	<=0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	<=0.4	PASS
3DH5	Ant1	Hop	2.89	90	0.26	<=0.4	PASS



2DH5_Ant1_Hop

Agilent Spectrum Analyzer - Swept SA

RL

RF

50 Ω

AC

SENSE-PULSE

ALIGN OFF

02:17:47 PM Sep 10, 2021

Center Freq 2.441000000 GHz

Trig Delay: 200.0 μs

Trig: Video

#Atten: 20 dB

#Avg Type: RMS

TRACE 1 2 3 4 5 6

TYPE: WWWWWWWW

DET: P P P P P P

Ref Offset: 9.56 dB

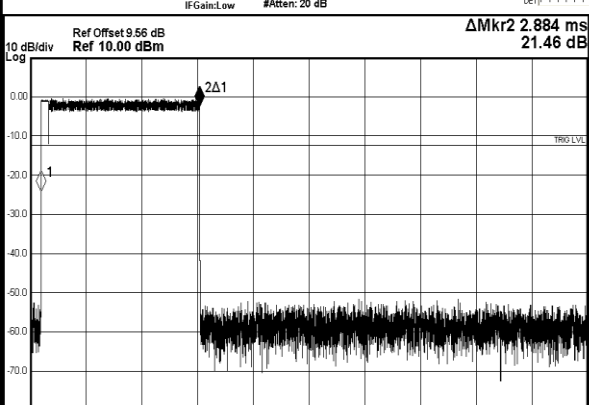
Ref 10.00 dBm

ΔMkr2 2.884 ms

21.46 dB

10 dB/div

Log



Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 10.13 ms (8000 pts)

Span 0 Hz

MSG

STATUS

Frequency

Auto Tune

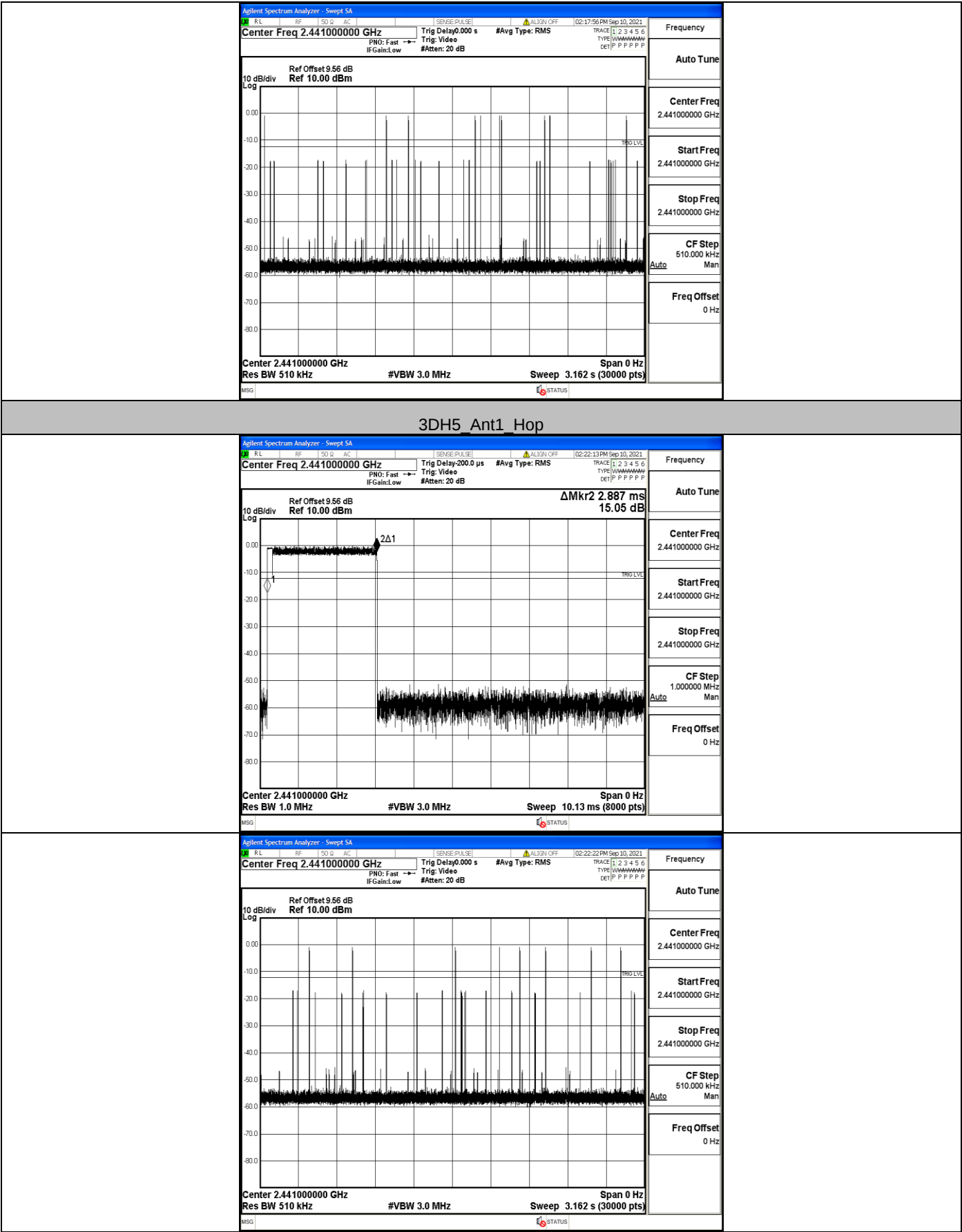
Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

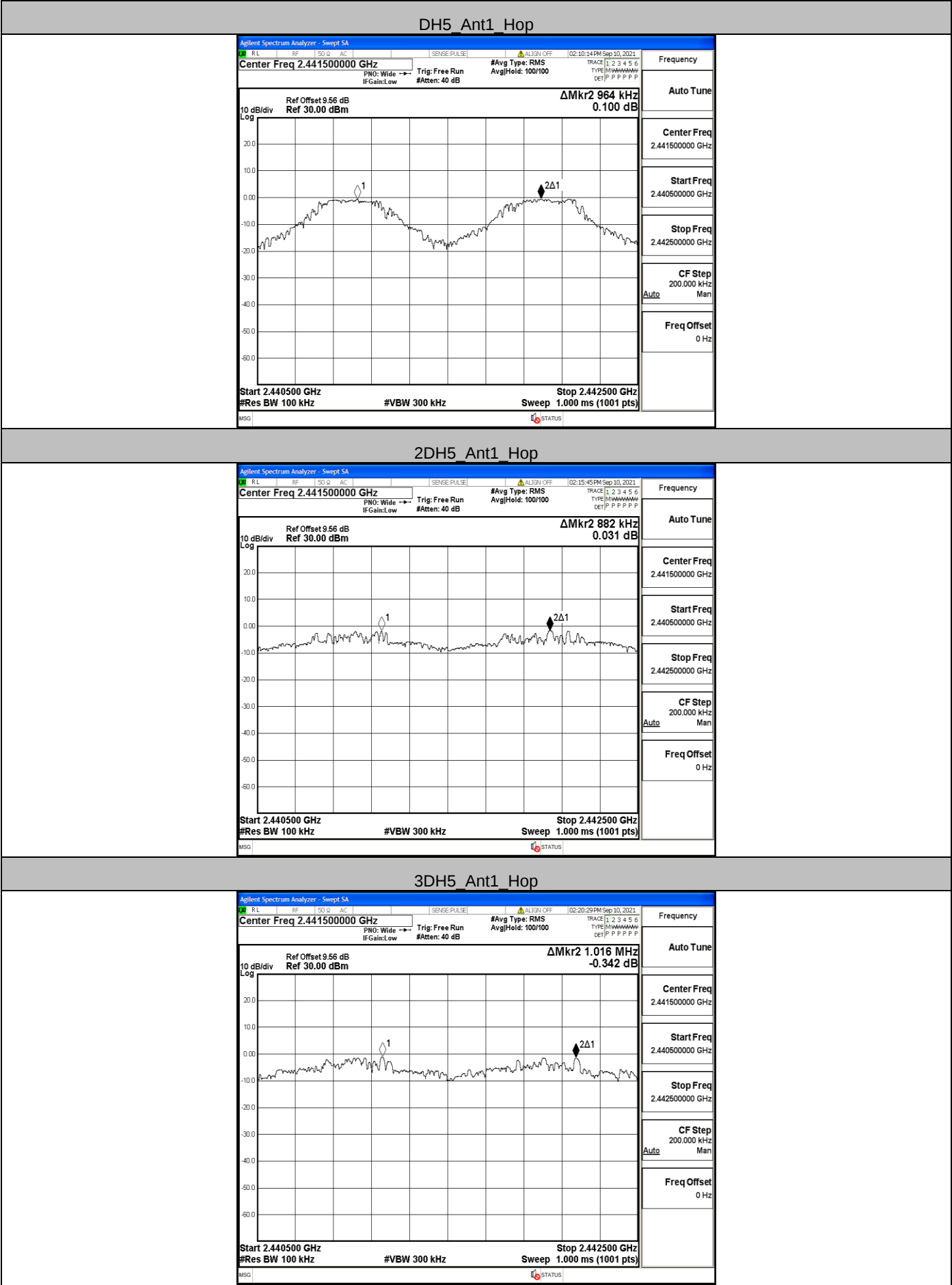
Freq Offset
0 Hz



A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.964	≥ 0.948	PASS
2DH5	Ant1	Hop	0.882	≥ 0.878	PASS
3DH5	Ant1	Hop	1.016	≥ 0.870	PASS

Test Graph

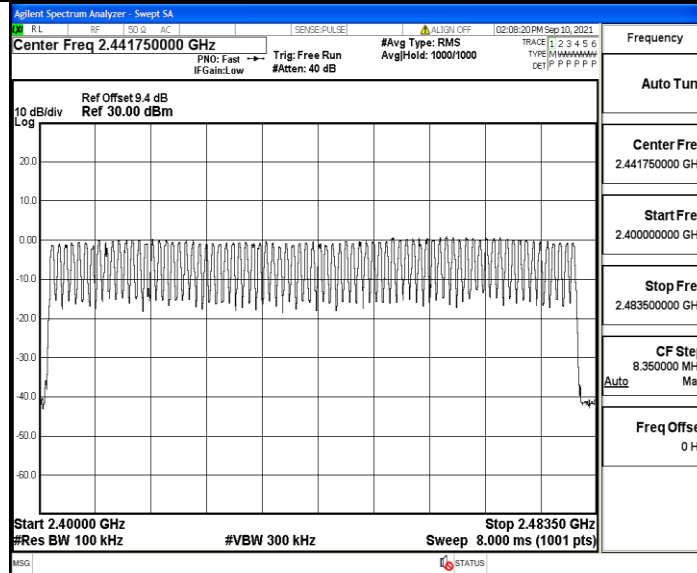


A.4 Hopping Channel Number

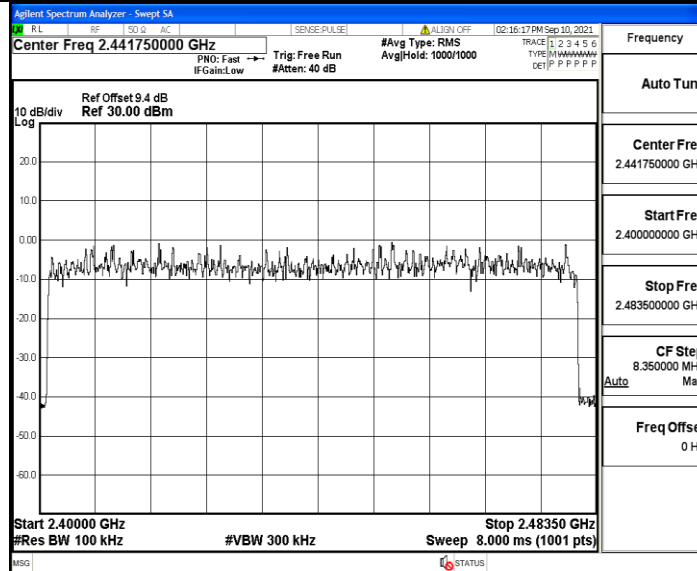
Mode	Channel.	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graph

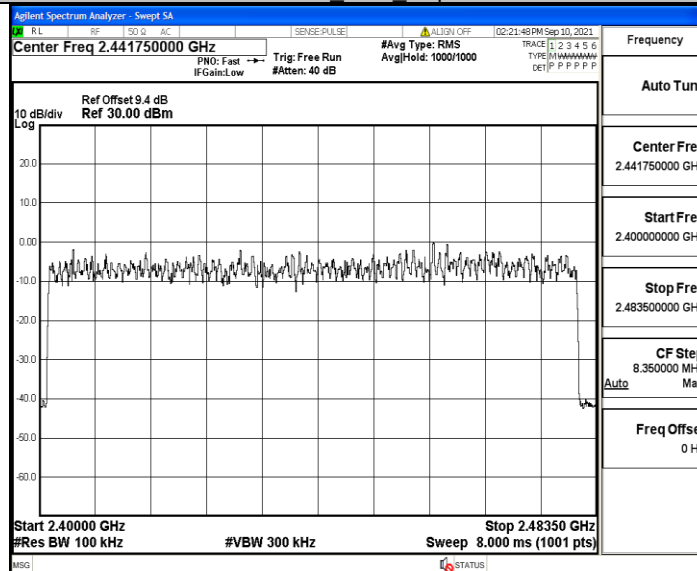
DH5_Ant1_Hop



2DH5_Ant1_Hop



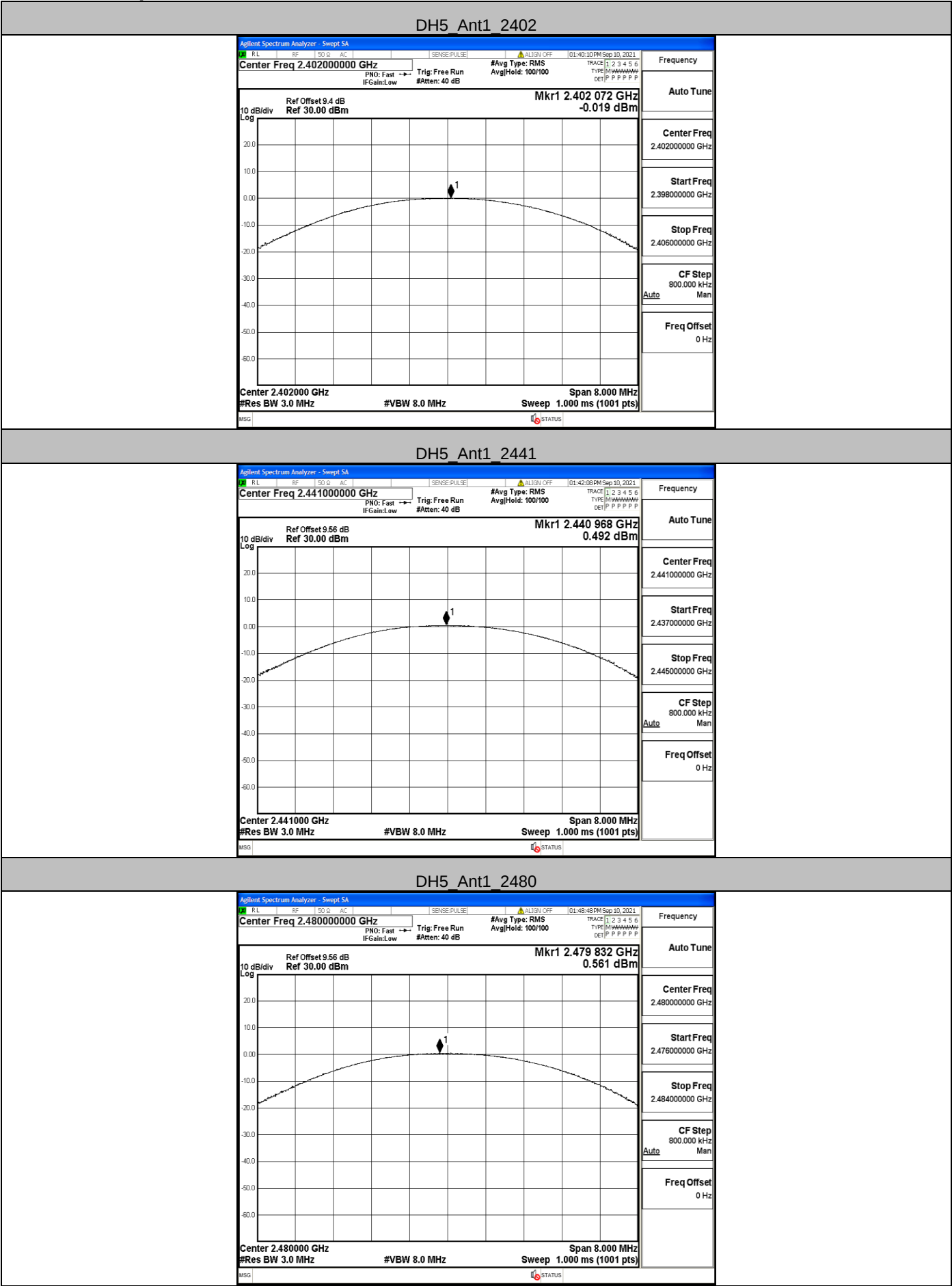
3DH5_Ant1_Hop

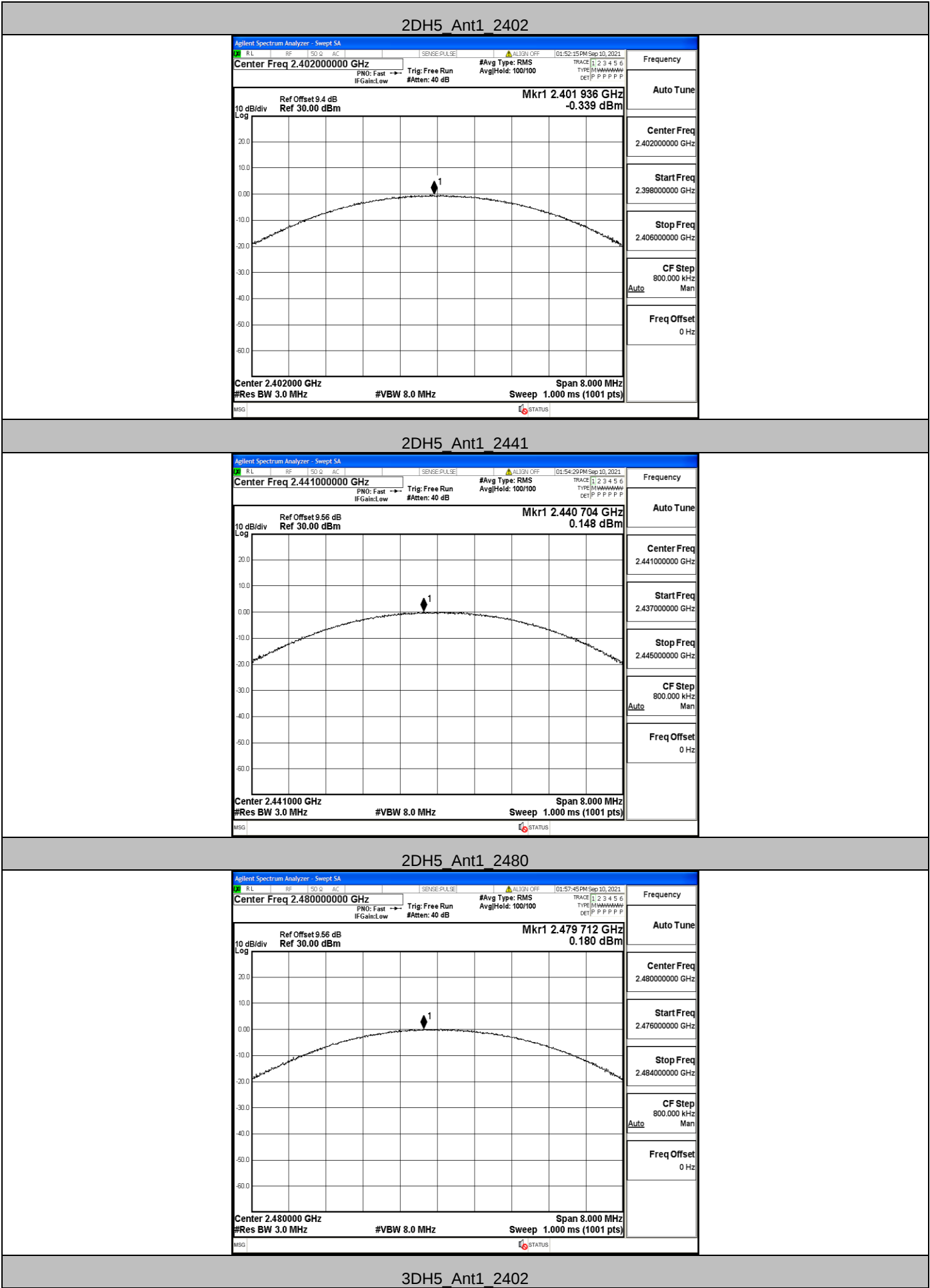


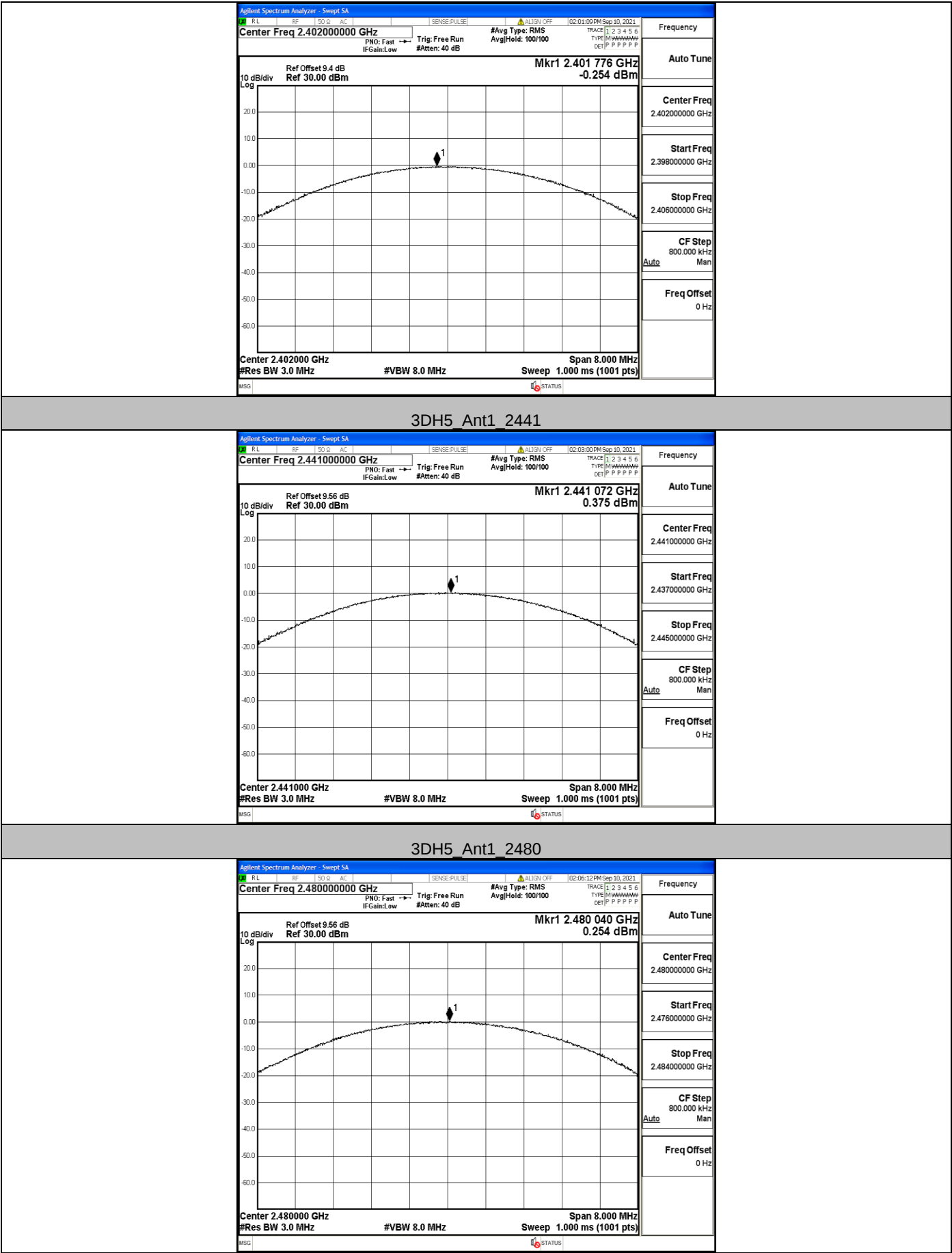
A.5 Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.02	30	PASS
GFSK	MCH	0.49	30	PASS
GFSK	HCH	0.56	30	PASS
$\pi/4$ DQPSK	LCH	-0.34	20.97	PASS
$\pi/4$ DQPSK	MCH	0.15	20.97	PASS
$\pi/4$ DQPSK	HCH	0.18	20.97	PASS
8DPSK	LCH	-0.25	20.97	PASS
8DPSK	MCH	0.38	20.97	PASS
8DPSK	HCH	0.25	20.97	PASS

Test Graph





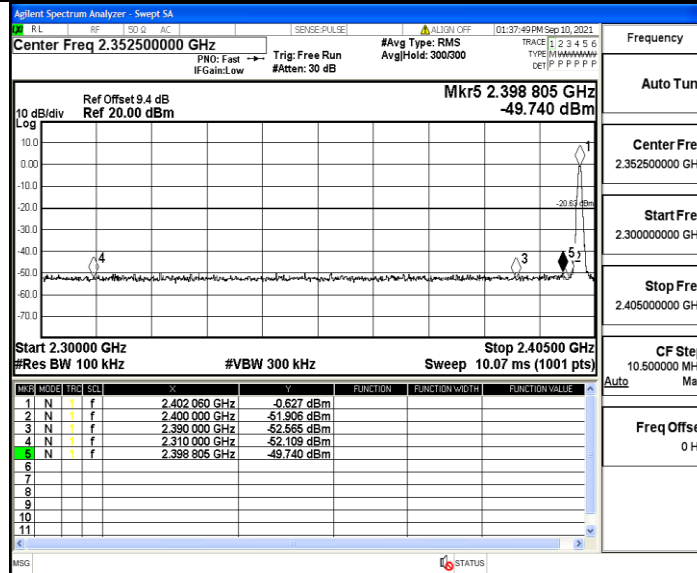


A.6 Band-edge for RF Conducted Emissions

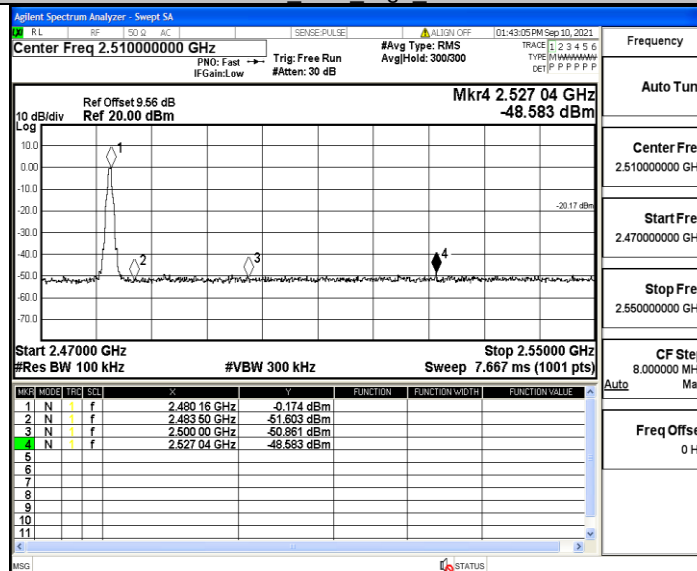
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.63	-49.74	≤ -20.63	PASS
		High	2480	-0.17	-48.58	≤ -20.17	PASS
		Low	Hop_2402	-0.72	-50.05	≤ -20.72	PASS
		High	Hop_2480	0.26	-48.91	≤ -19.74	PASS
2DH5	Ant1	Low	2402	-1.65	-49.93	≤ -21.65	PASS
		High	2480	-1.15	-48.23	≤ -21.15	PASS
		Low	Hop_2402	-5.62	-49.83	≤ -25.62	PASS
		High	Hop_2480	-0.73	-48.92	≤ -20.73	PASS
3DH5	Ant1	Low	2402	-1.69	-49.9	≤ -21.69	PASS
		High	2480	-1.25	-48.73	≤ -21.25	PASS
		Low	Hop_2402	-6.07	-50.5	≤ -26.07	PASS
		High	Hop_2480	-4.11	-49.14	≤ -24.11	PASS

Test Graph

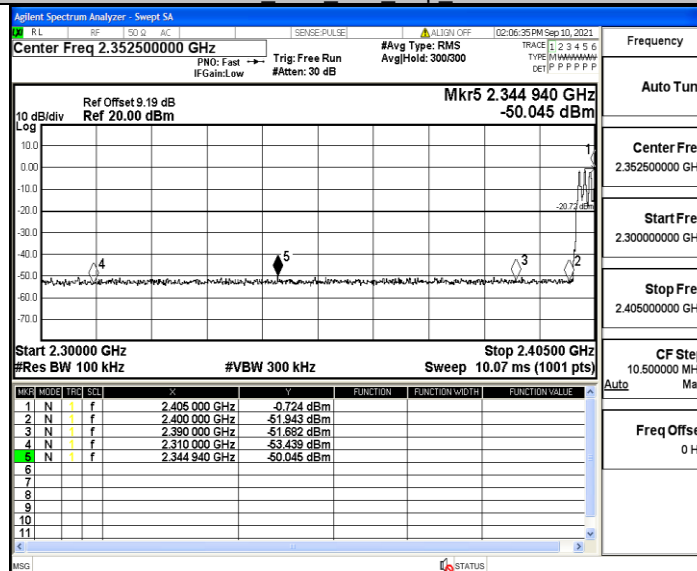
DH5_Ant1_Low_2402



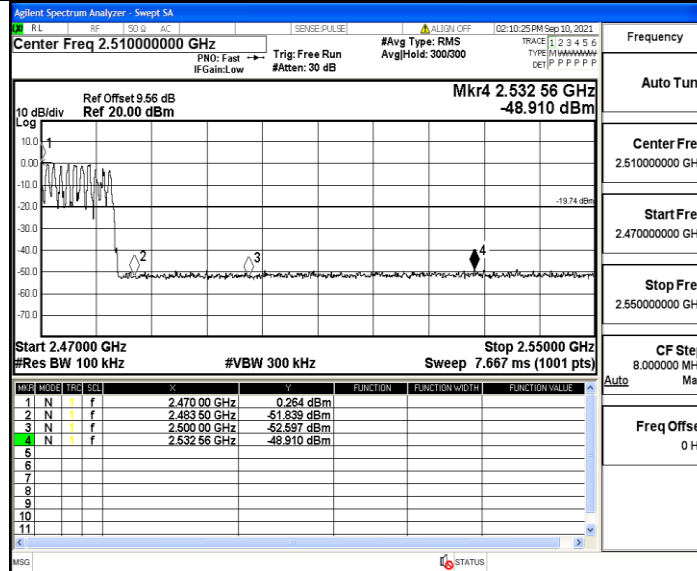
DH5_Ant1_High_2480



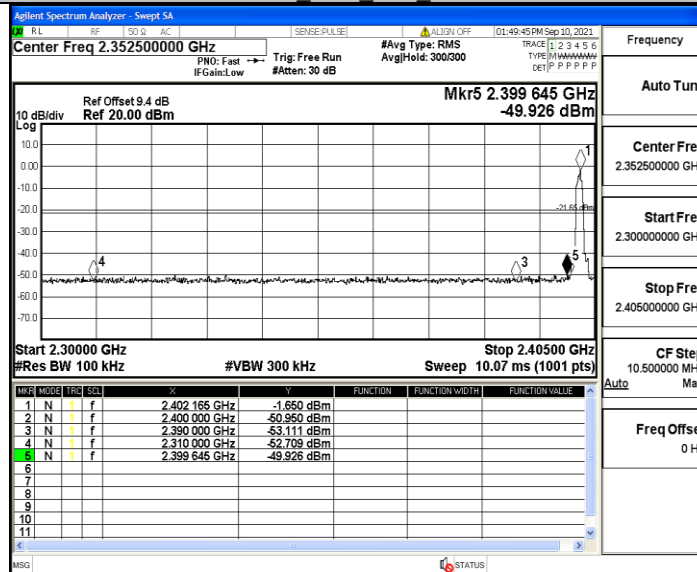
DH5_Ant1_Low_Hop_2402



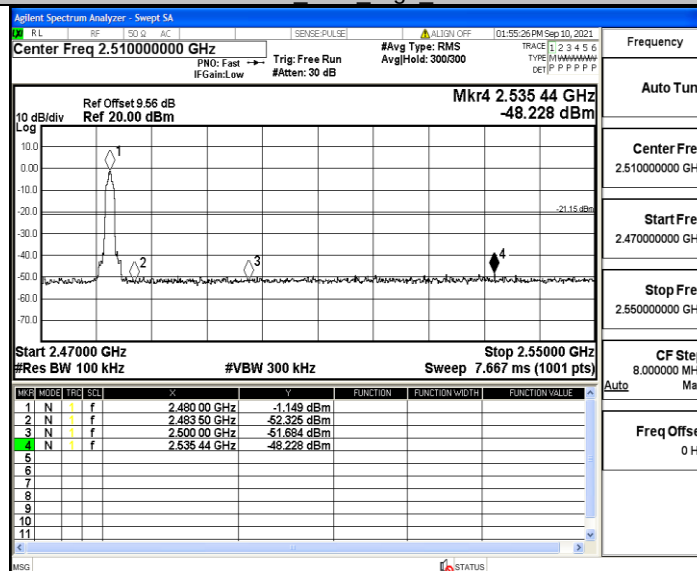
DH5_Ant1_High_Hop_2480



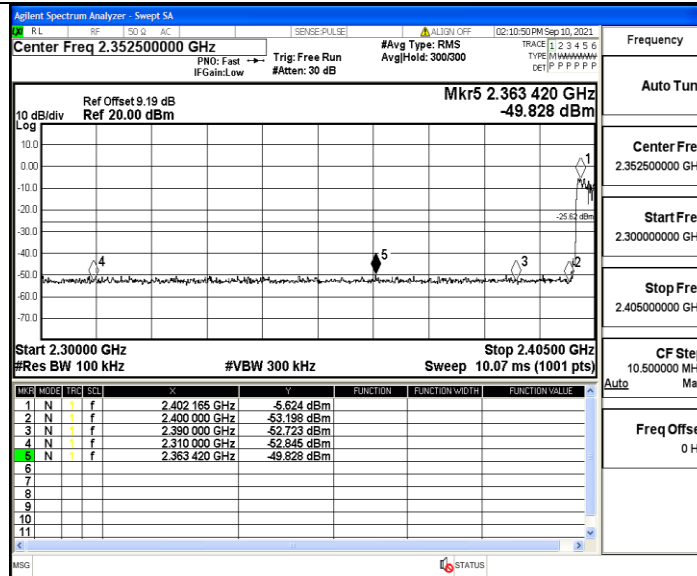
2DH5_Ant1_Low_2402



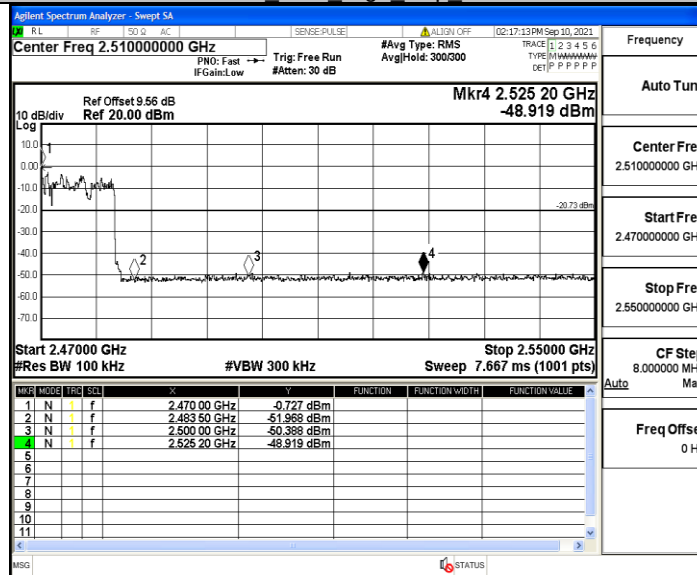
2DH5_Ant1_High_2480



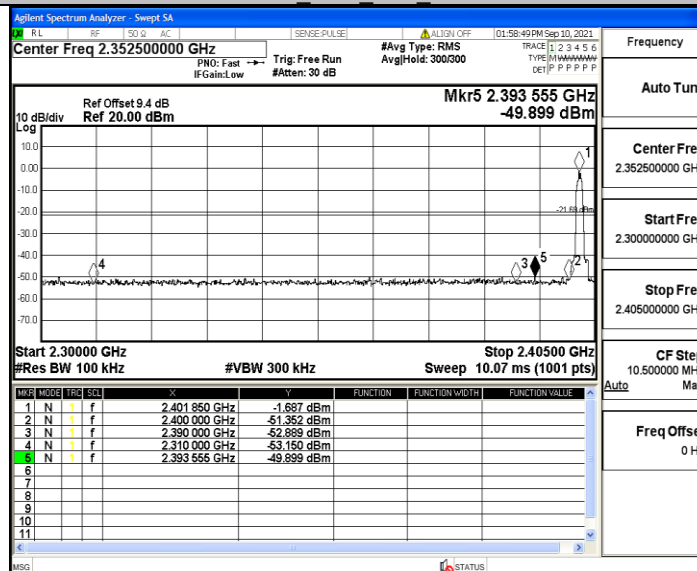
2DH5_Ant1_Low_Hop_2402



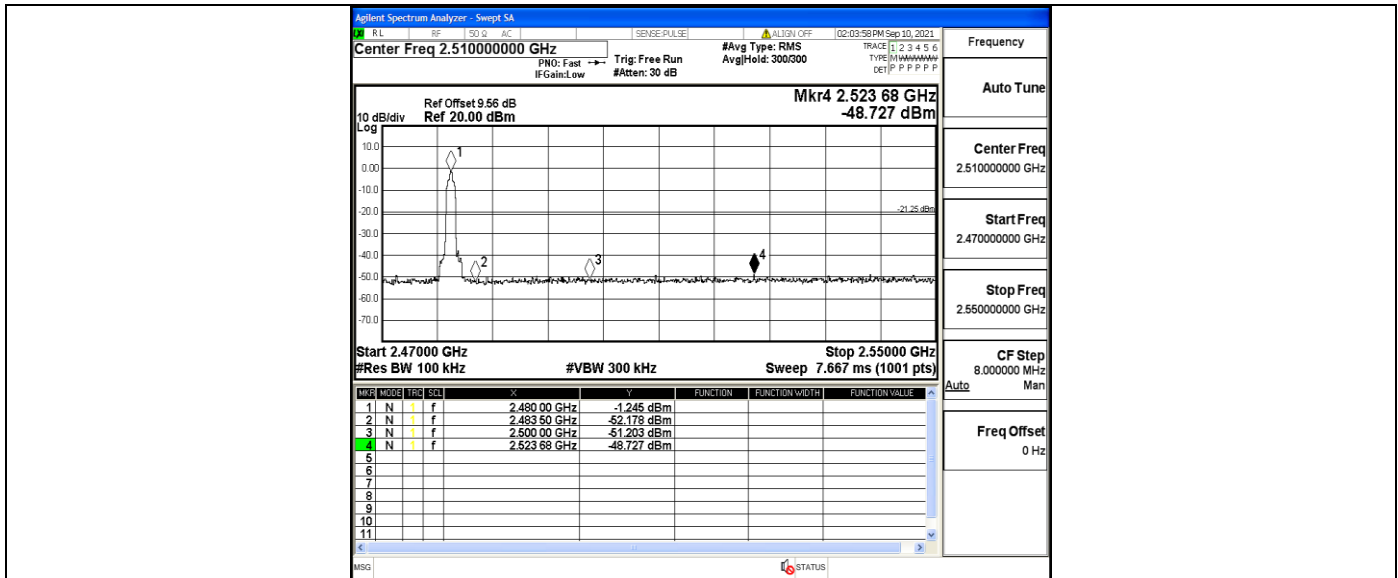
2DH5 Ant1 High Hop 2480



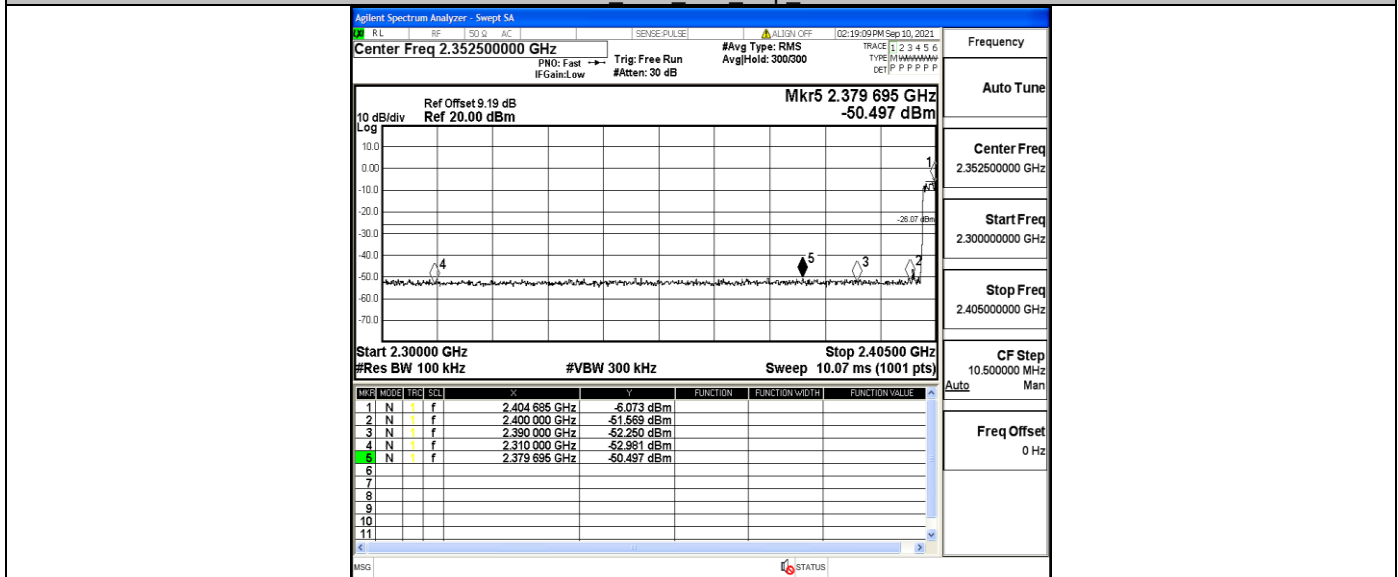
3DH5 Ant1 Low 2402



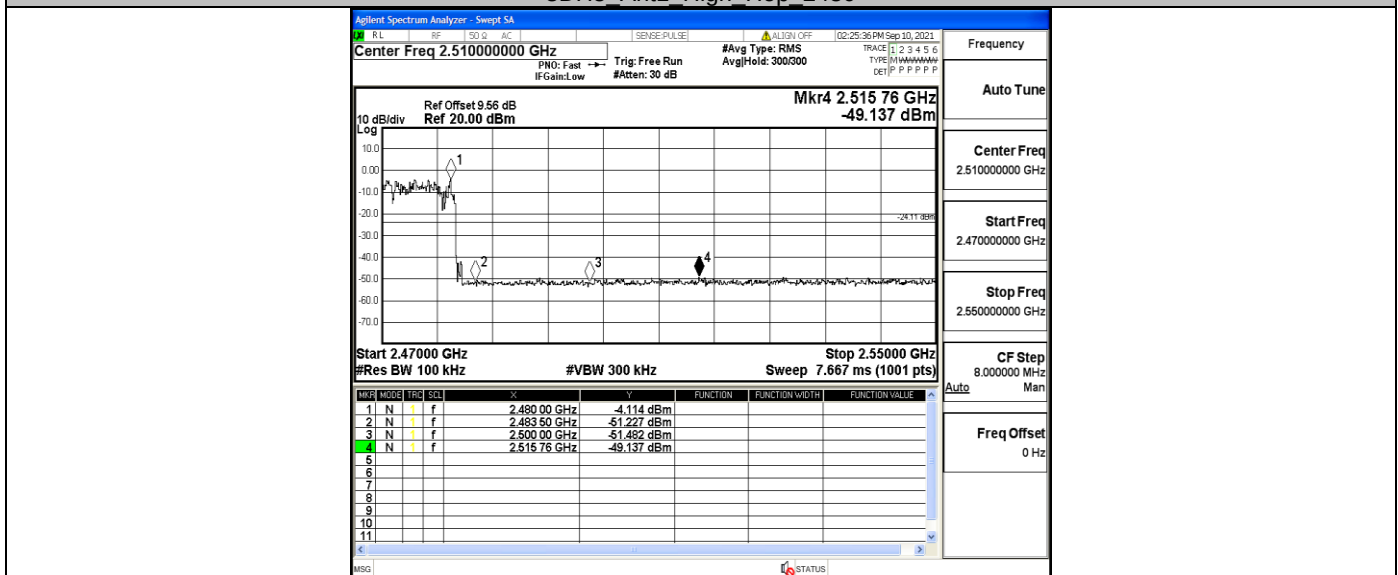
3DH5 Ant1 High 2480



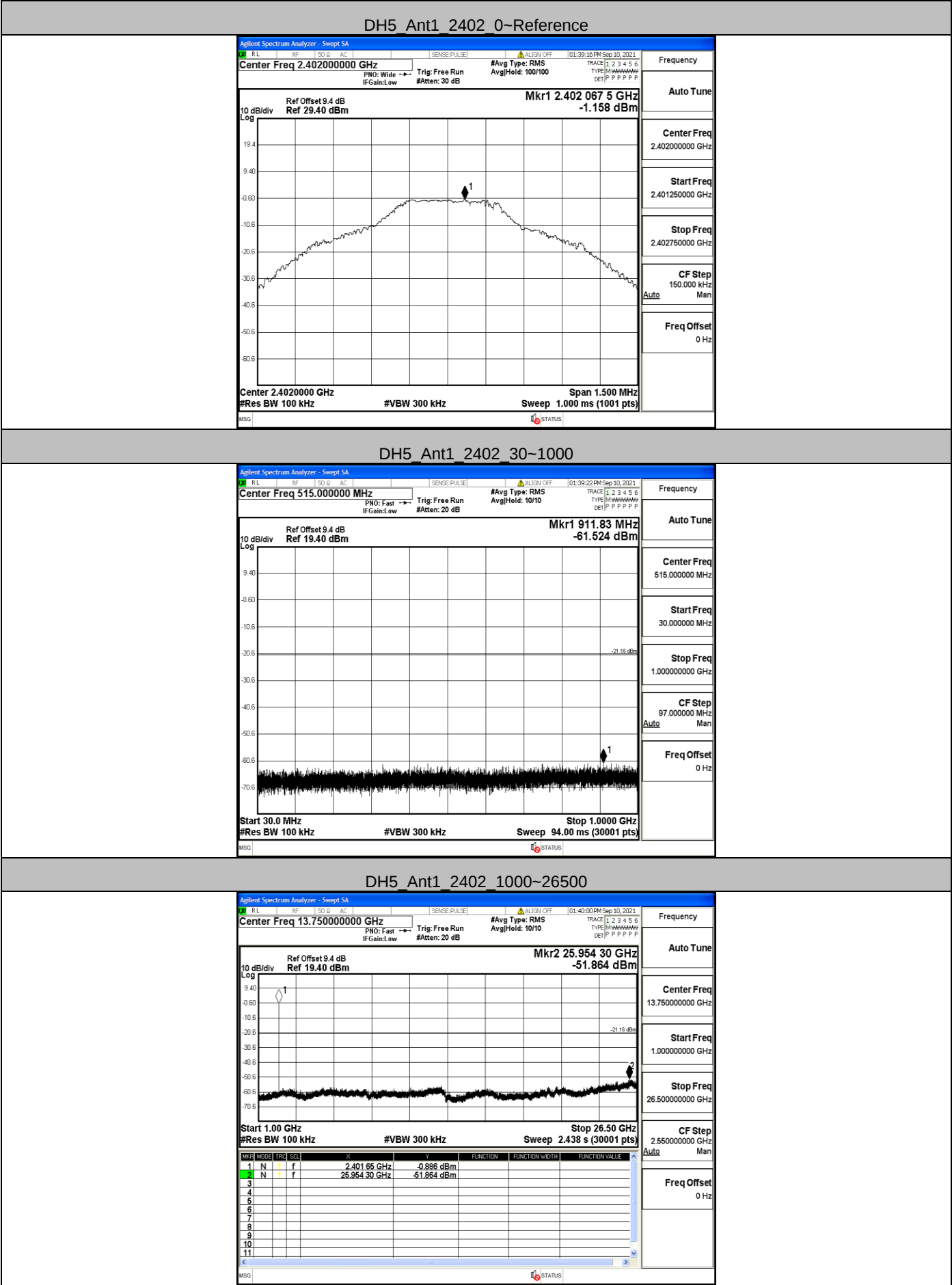
3DH5 Ant1 Low Hop 2402

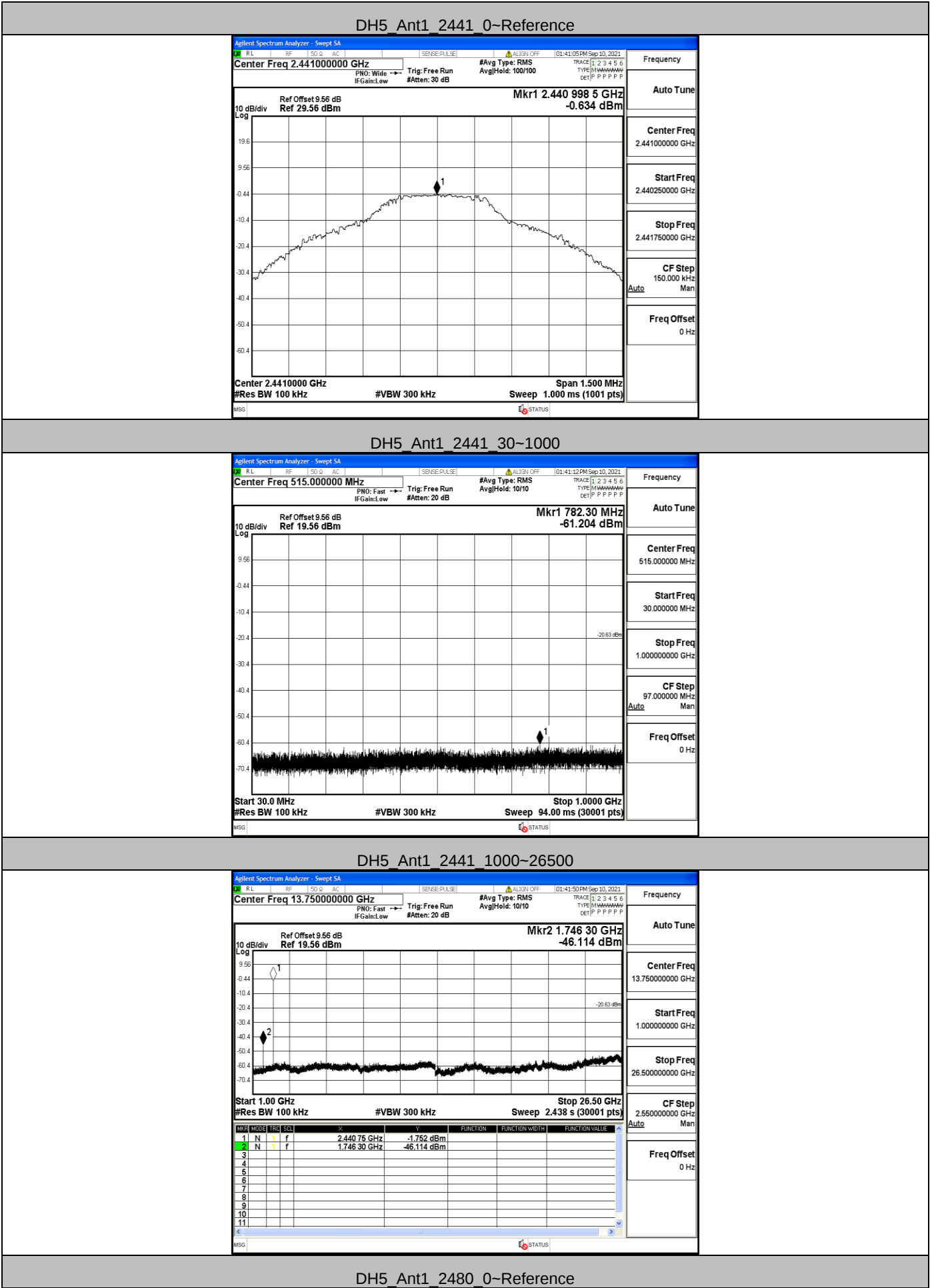


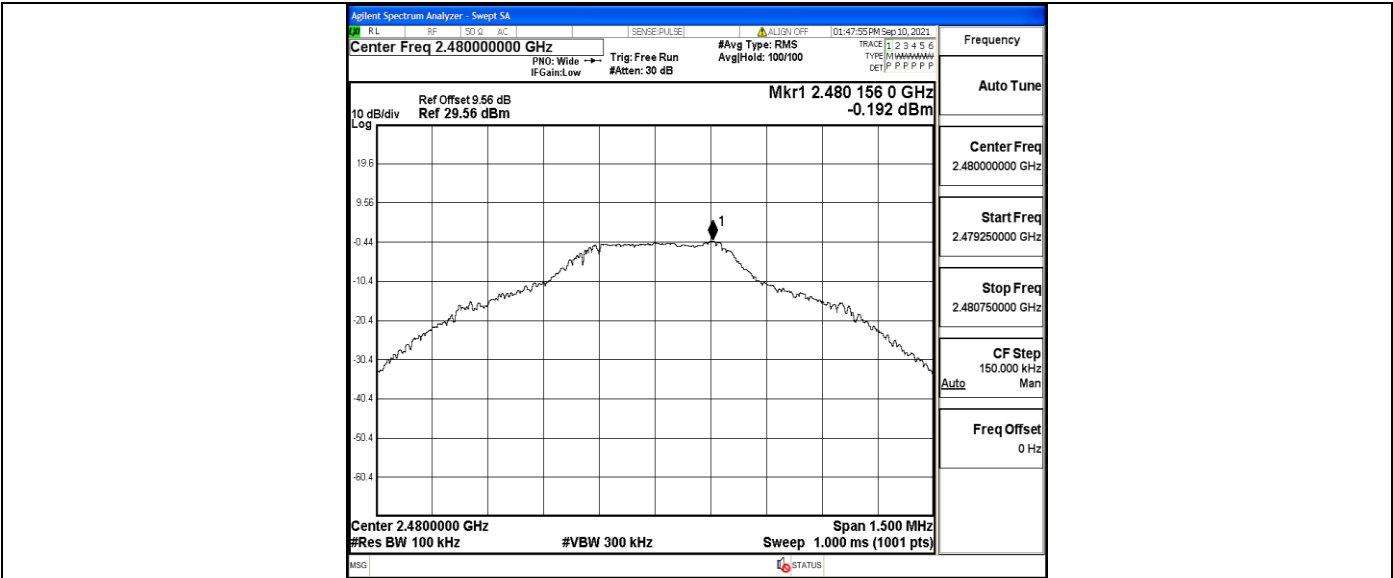
3DH5 Ant1 High Hop 2480



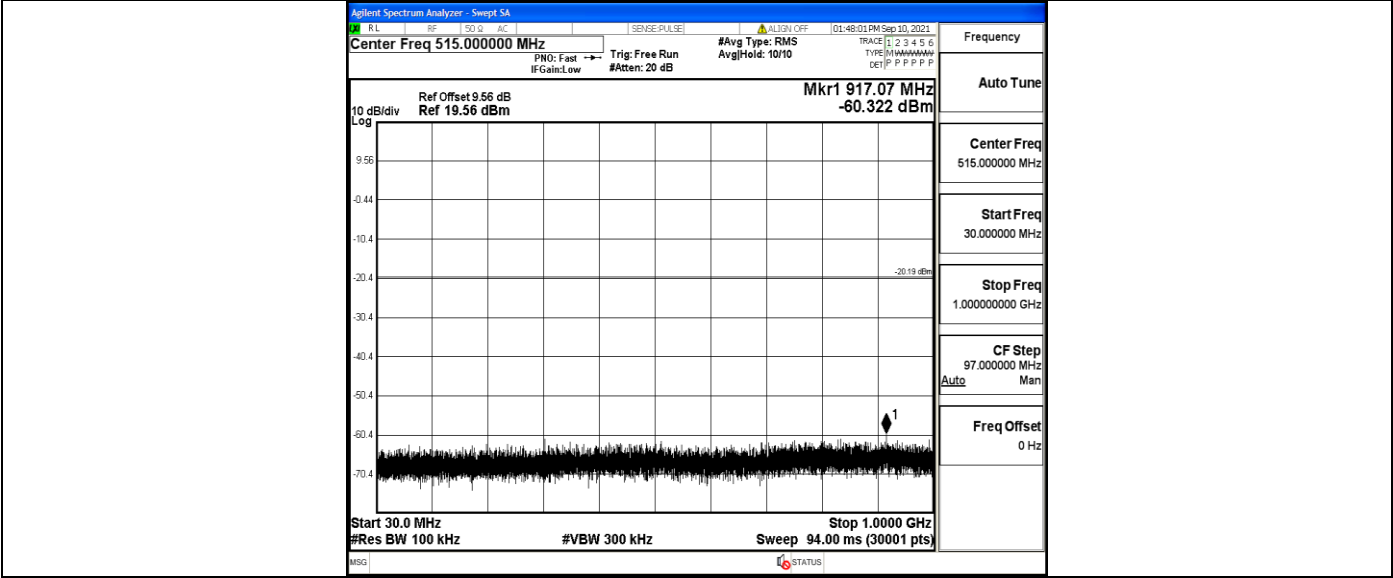
A.7 RF Conducted Spurious Emissions



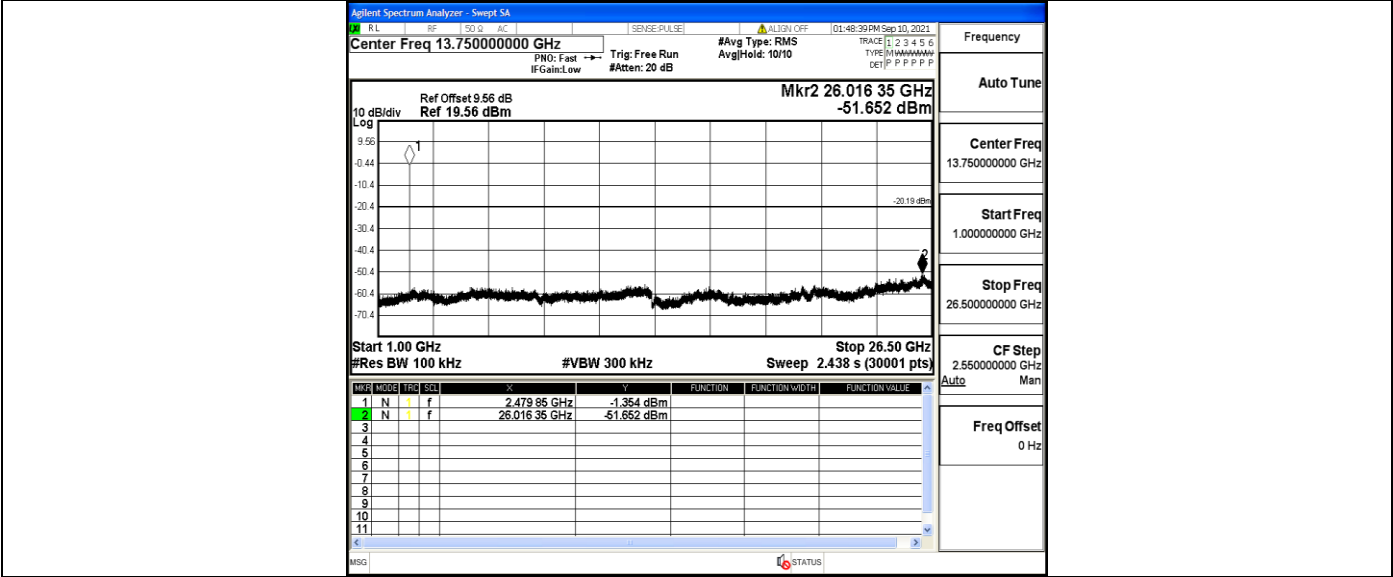




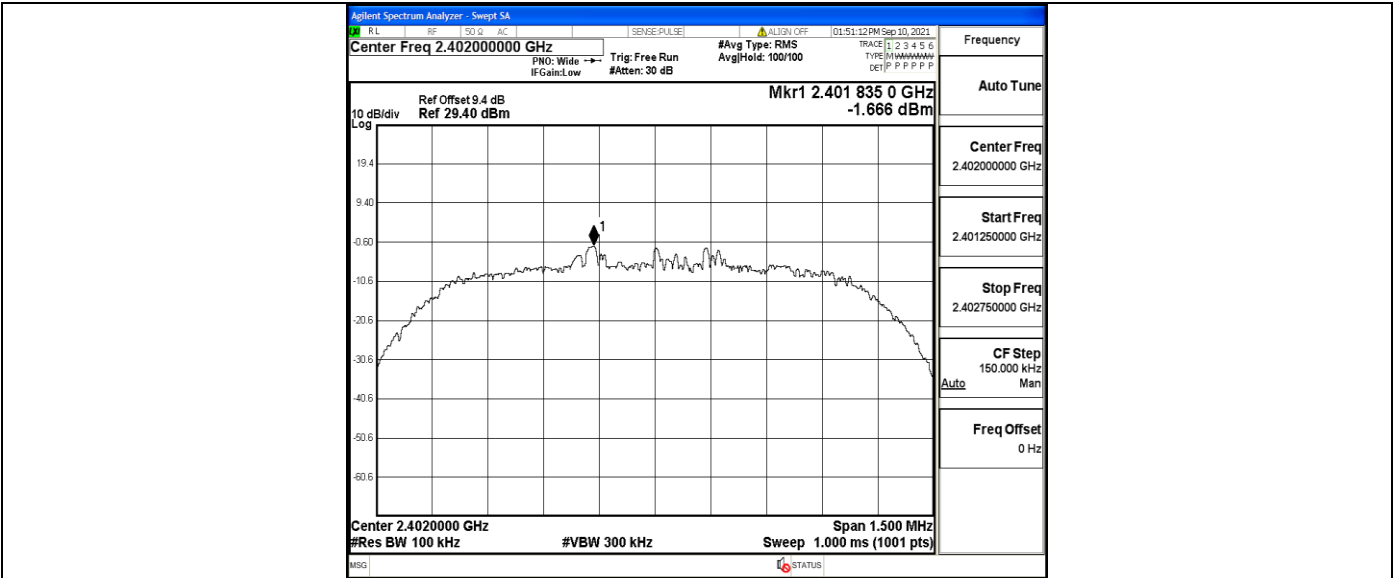
DH5_Ant1_2480_30~1000



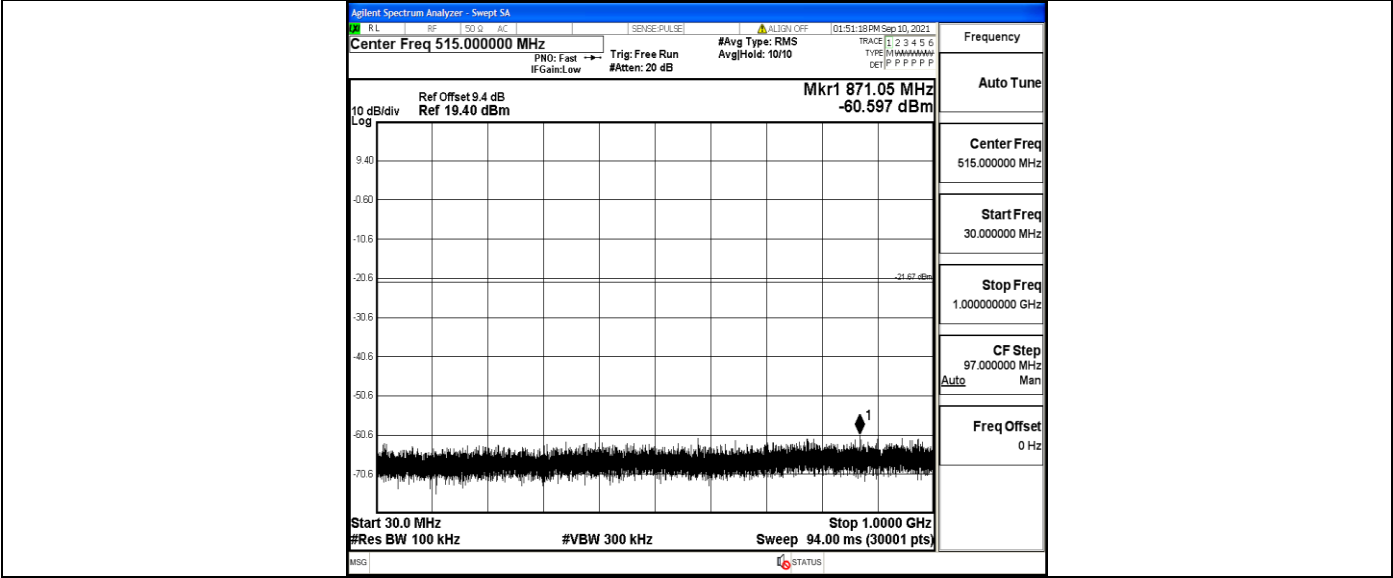
DH5_Ant1_2480_1000~26500



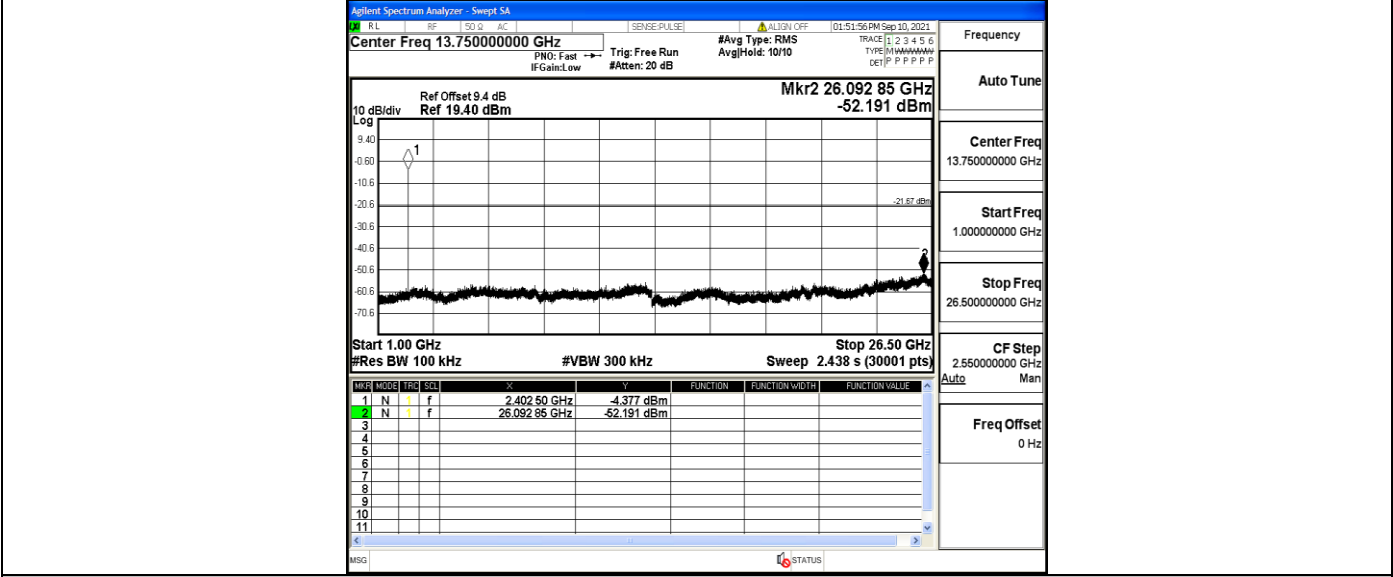
2DH5_Ant1_2402_0~Reference



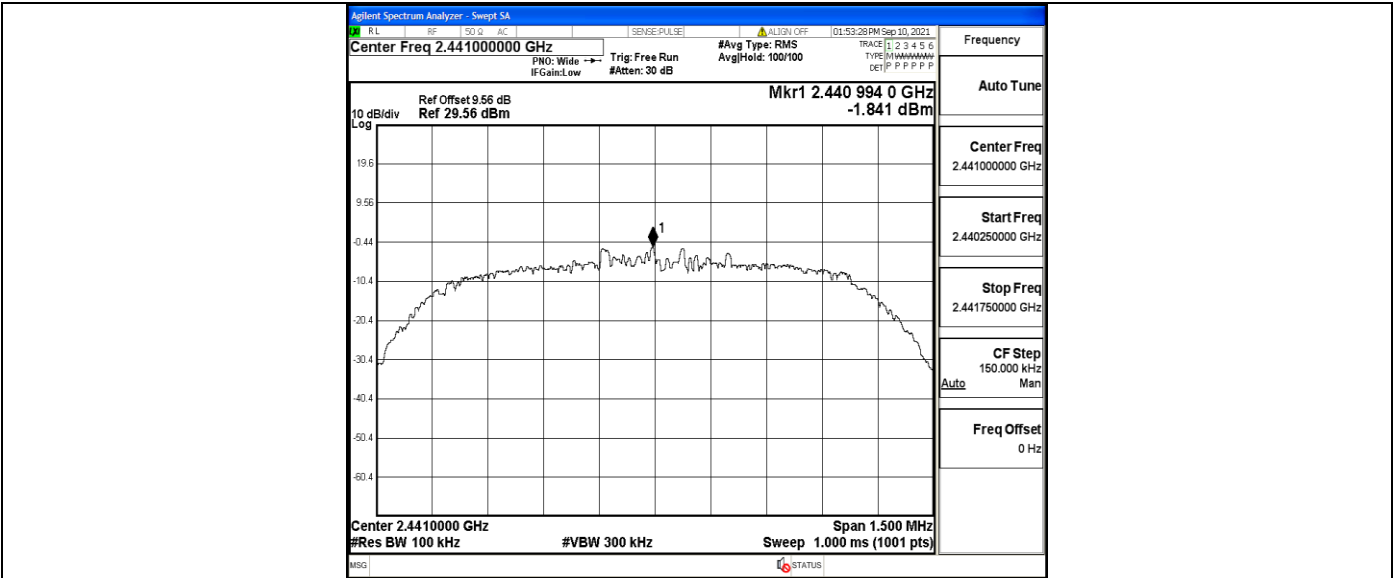
2DH5_Ant1_2402_30~1000



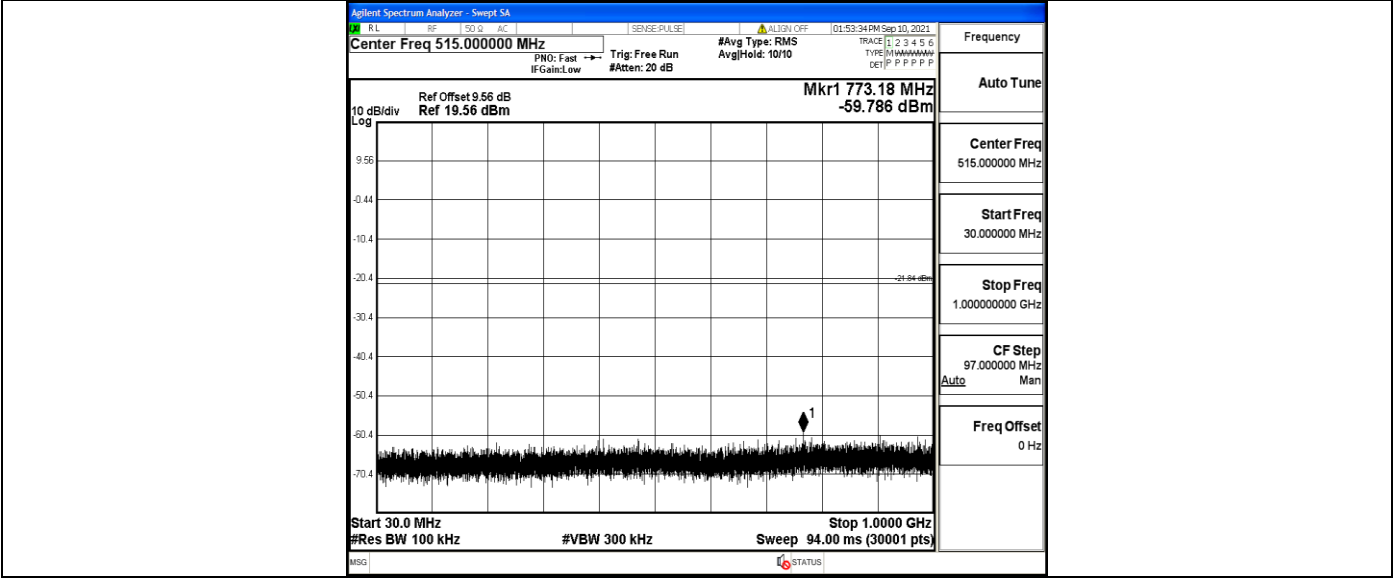
2DH5_Ant1_2402_1000~26500



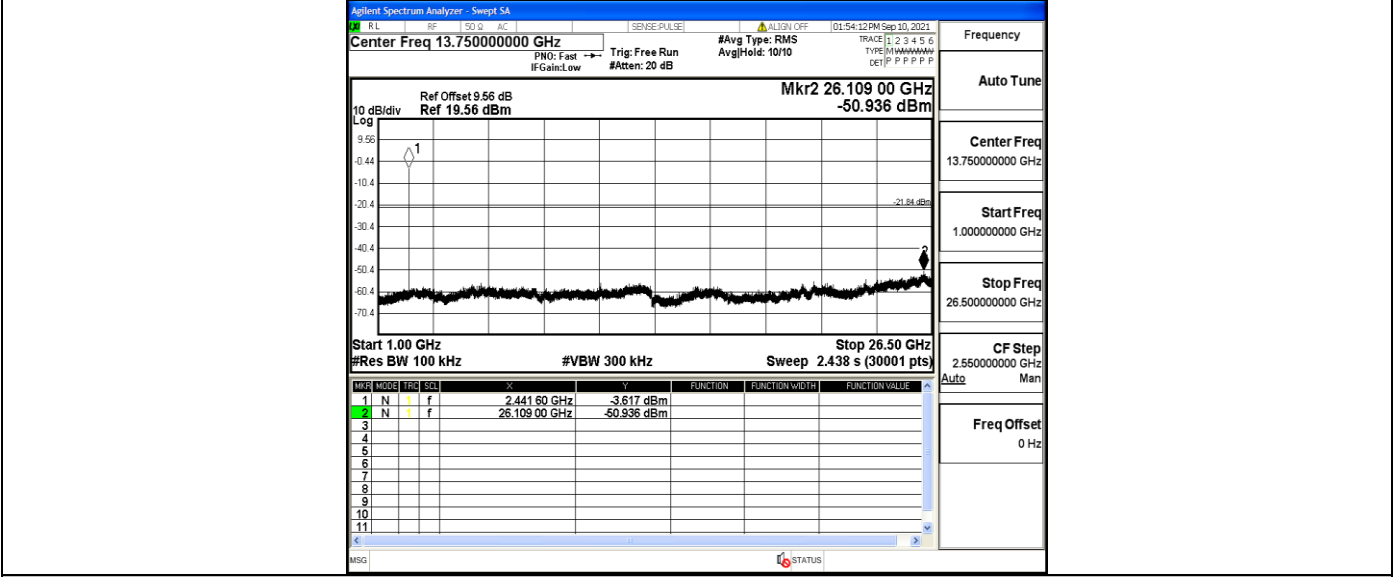
2DH5_Ant1_2441_0~Reference



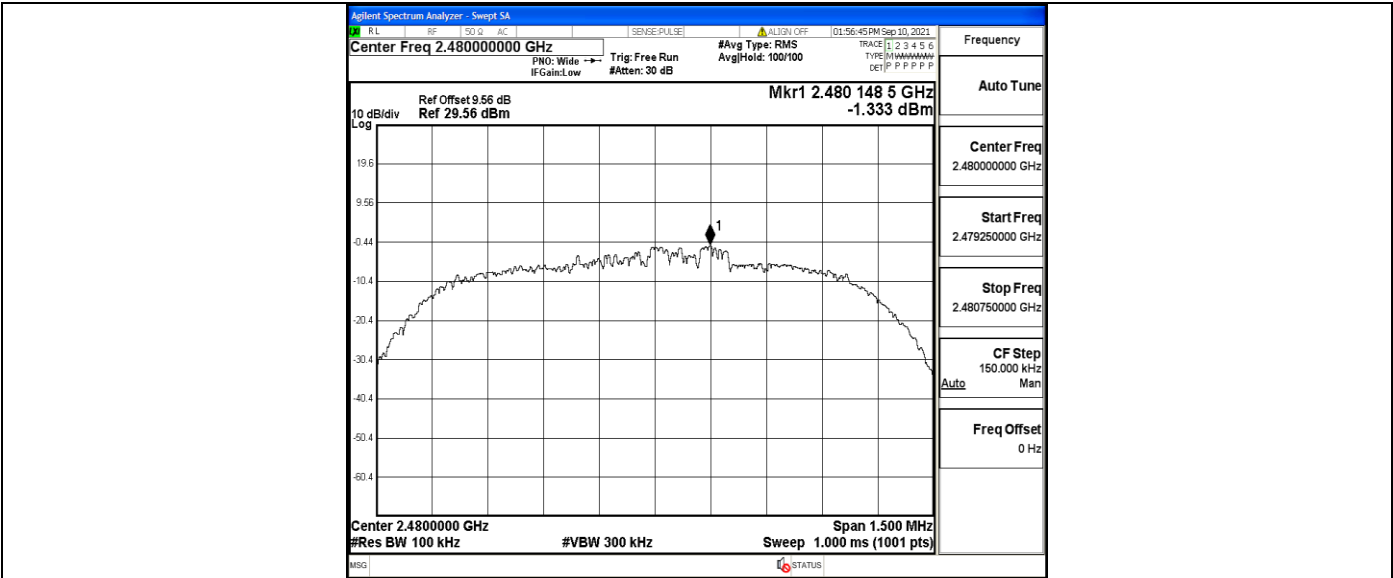
2DH5_Ant1_2441_30~1000



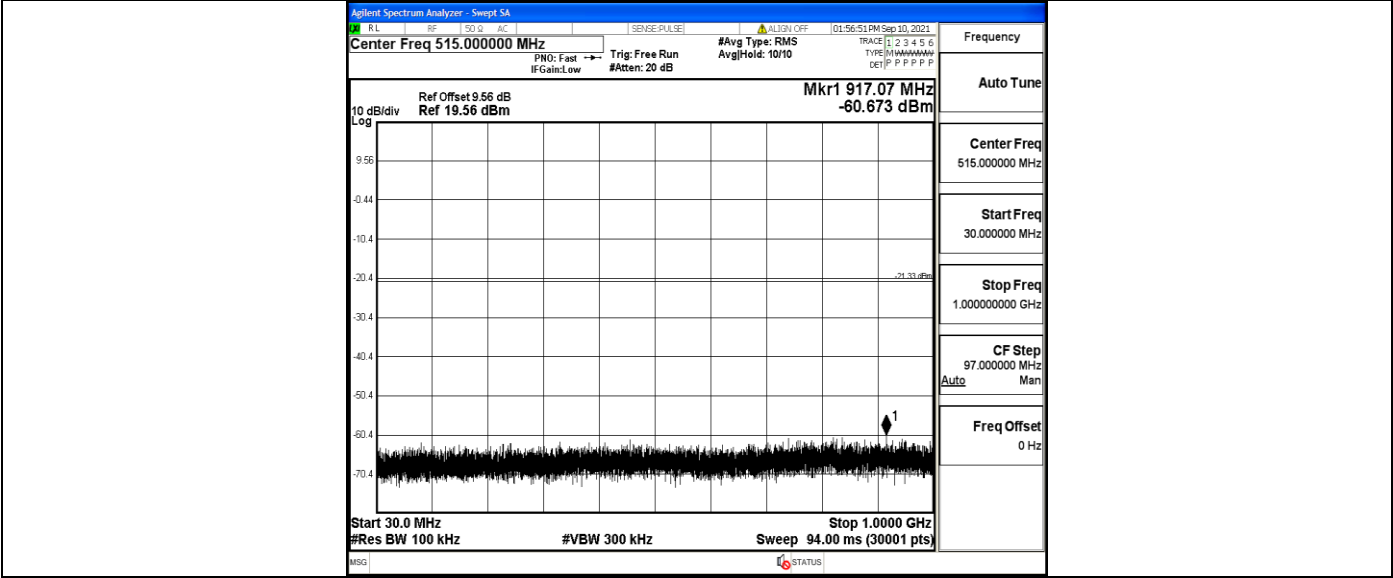
2DH5_Ant1_2441_1000~26500



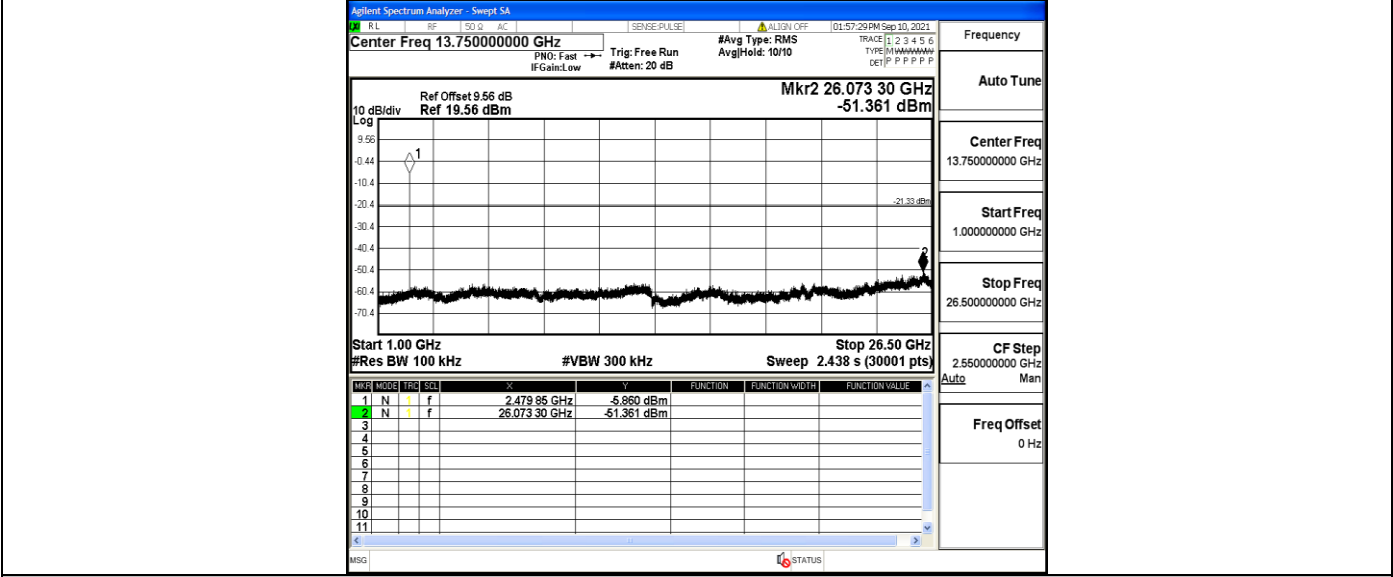
2DH5_Ant1_2480_0~Reference



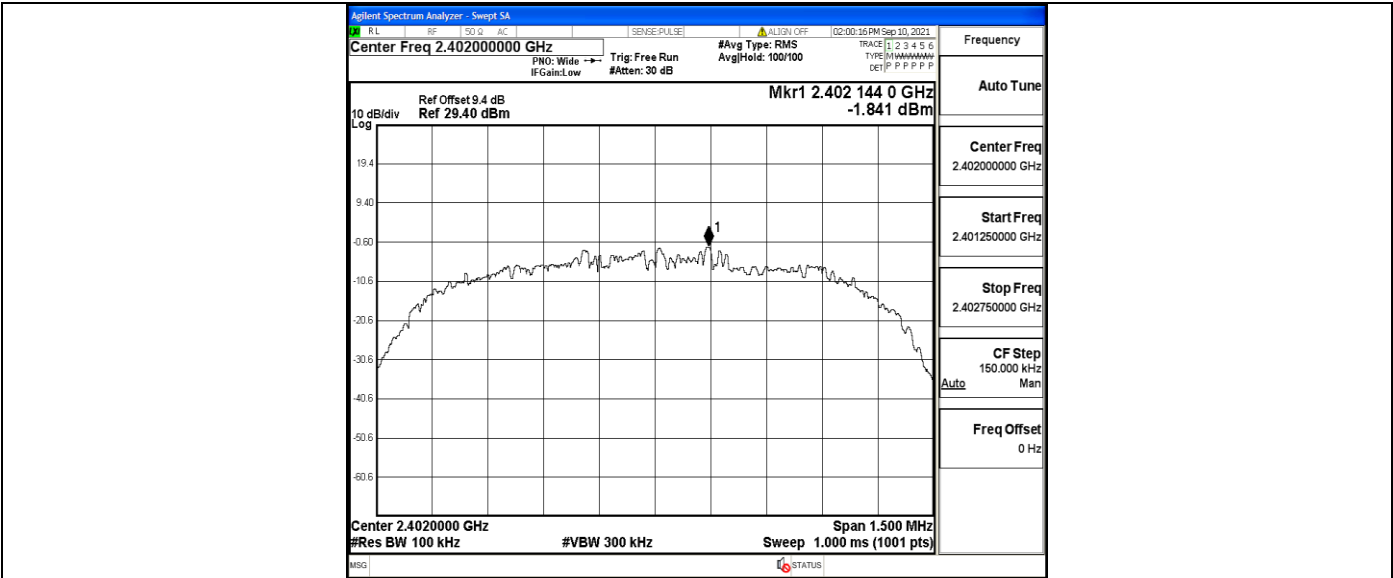
2DH5_Ant1_2480_30~1000



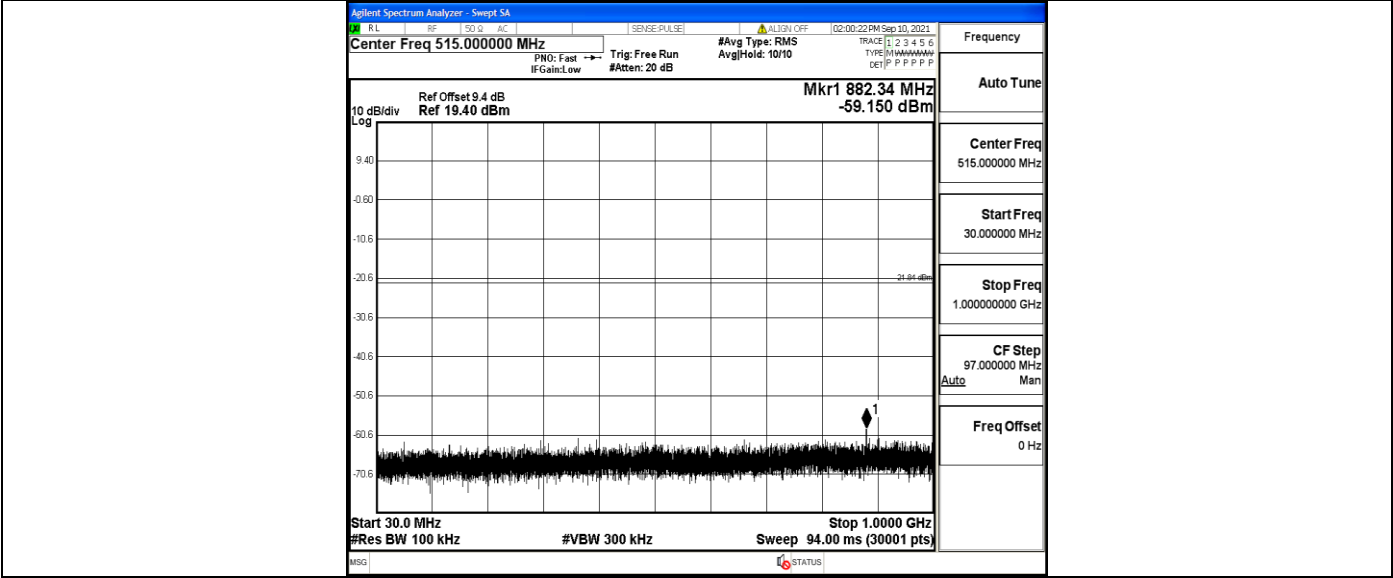
2DH5_Ant1_2480_1000~26500



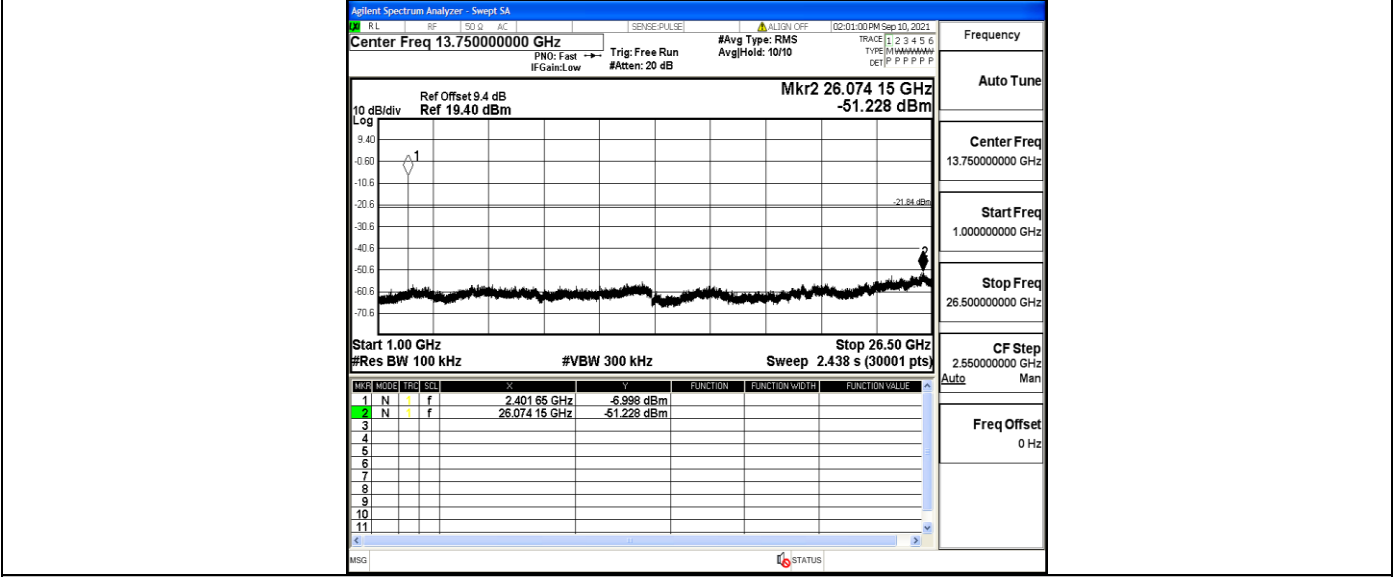
3DH5_Ant1_2402_0~Reference



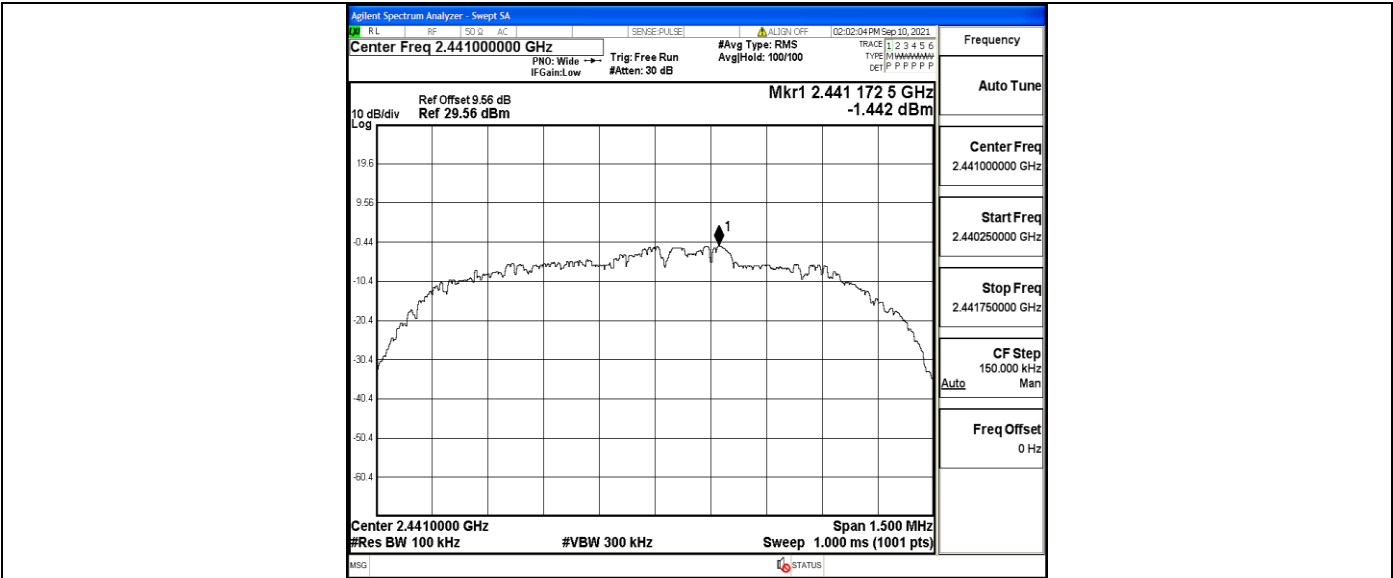
3DH5_Ant1_2402_30~1000



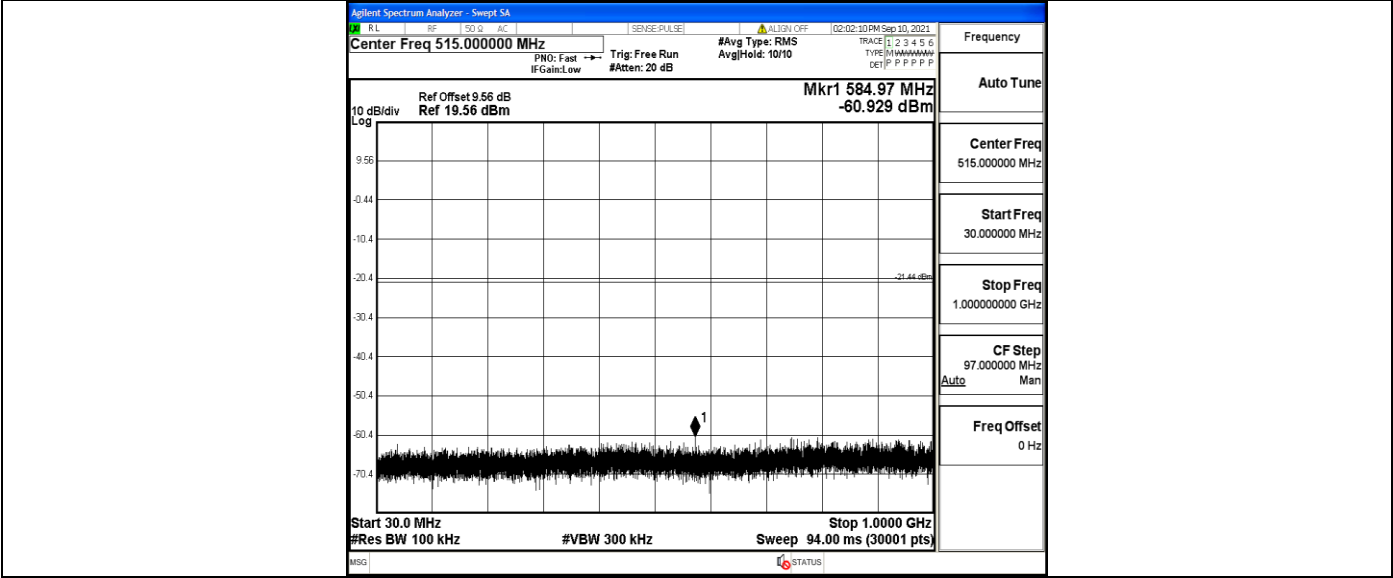
3DH5_Ant1_2402_1000~26500



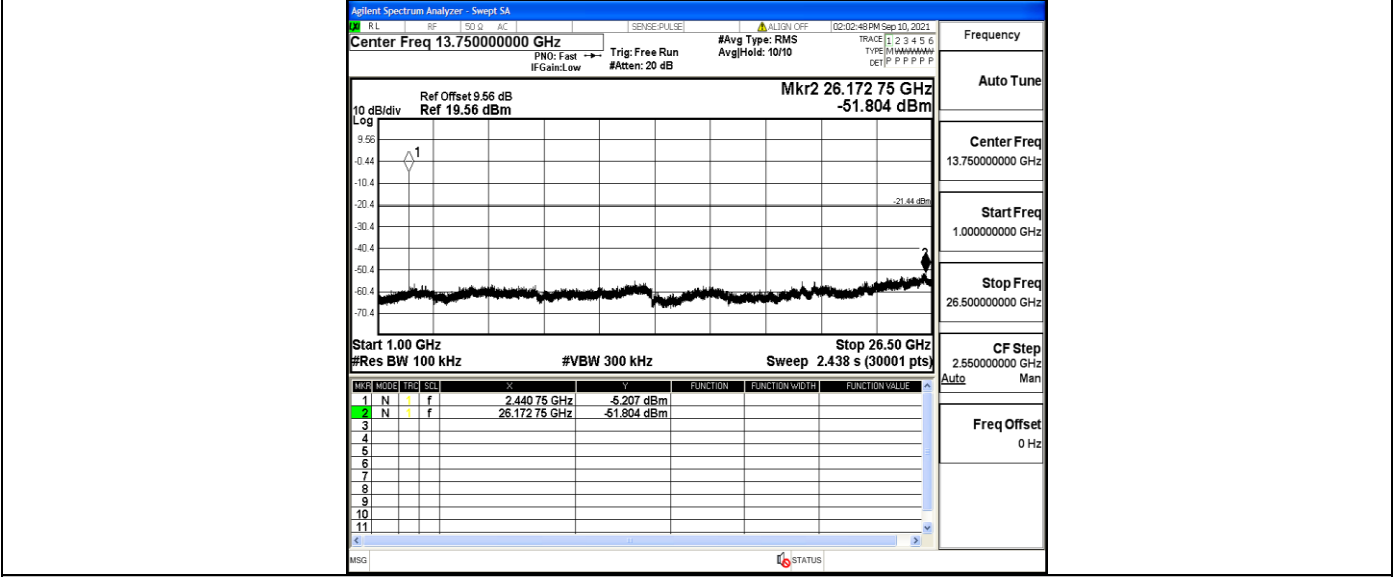
3DH5_Ant1_2441_0~Reference



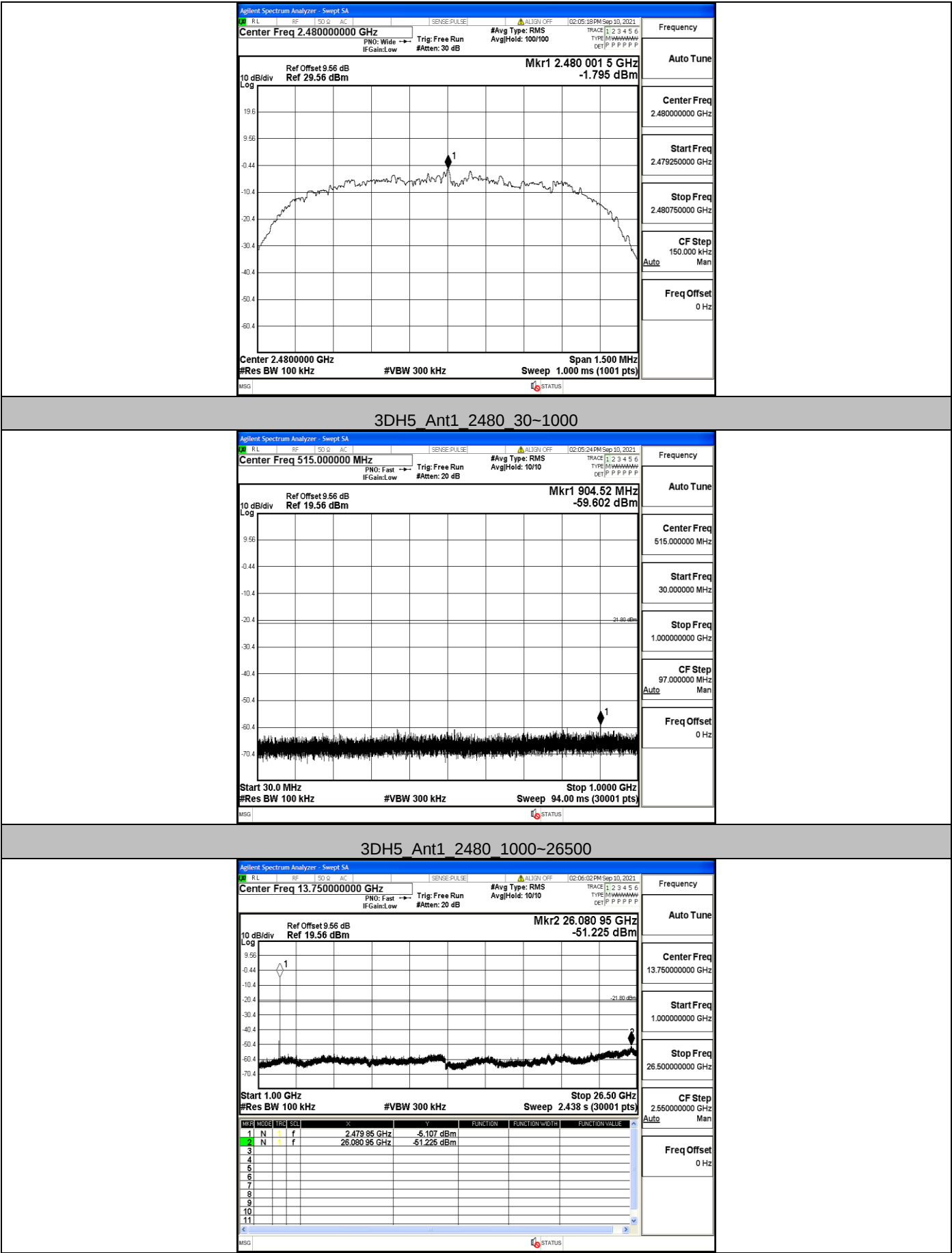
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



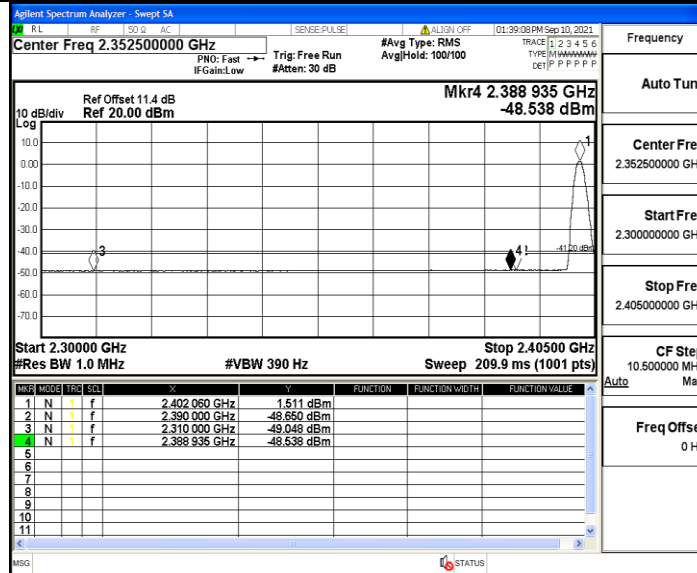
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq (MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.05	<=-41.20	PASS
				AV	2388.935	-48.54	<=-41.20	PASS
				AV	2390.000	-48.65	<=-41.20	PASS
				Peak	2310.000	-42.37	<=-21.20	PASS
				Peak	2353.760	-38.34	<=-21.20	PASS
				Peak	2390.000	-42.24	<=-21.20	PASS
		High	2480	AV	2483.500	-47.96	<=-41.20	PASS
				AV	2496.080	-47.83	<=-41.20	PASS
				AV	2500.000	-47.82	<=-41.20	PASS
				Peak	2483.500	-40.87	<=-21.20	PASS
				Peak	2490.160	-37.74	<=-21.20	PASS
				Peak	2500.000	-41.3	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.01	<=-41.20	PASS
				AV	2389.145	-48.61	<=-41.20	PASS
				AV	2390.000	-48.69	<=-41.20	PASS
				Peak	2310.000	-42.42	<=-21.20	PASS
				Peak	2328.770	-38.36	<=-21.20	PASS
				Peak	2390.000	-41.55	<=-21.20	PASS
		High	2480	AV	2483.500	-47.96	<=-41.20	PASS
				AV	2497.360	-47.88	<=-41.20	PASS
				AV	2500.000	-47.86	<=-41.20	PASS
				Peak	2483.500	-41.81	<=-21.20	PASS
				Peak	2492.480	-38.3	<=-21.20	PASS
				Peak	2500.000	-40.32	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.88	<=-41.20	PASS
				AV	2389.250	-48.48	<=-41.20	PASS
				AV	2390.000	-48.61	<=-41.20	PASS
				Peak	2310.000	-42.02	<=-21.20	PASS
				Peak	2389.355	-38.87	<=-21.20	PASS
				Peak	2390.000	-41.44	<=-21.20	PASS
		High	2480	AV	2483.500	-47.89	<=-41.20	PASS
				AV	2483.520	-47.89	<=-41.20	PASS
				AV	2500.000	-48.02	<=-41.20	PASS
				Peak	2483.500	-41.99	<=-21.20	PASS
				Peak	2484.480	-38.22	<=-21.20	PASS
				Peak	2500.000	-41.11	<=-21.20	PASS

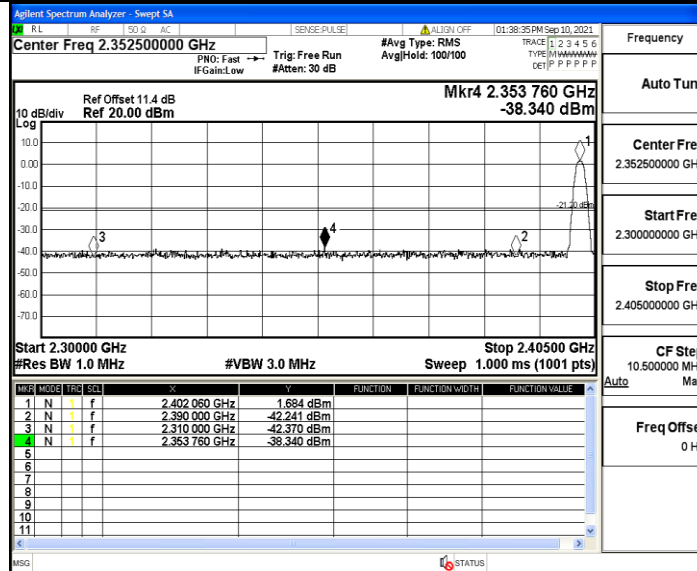
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.

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.

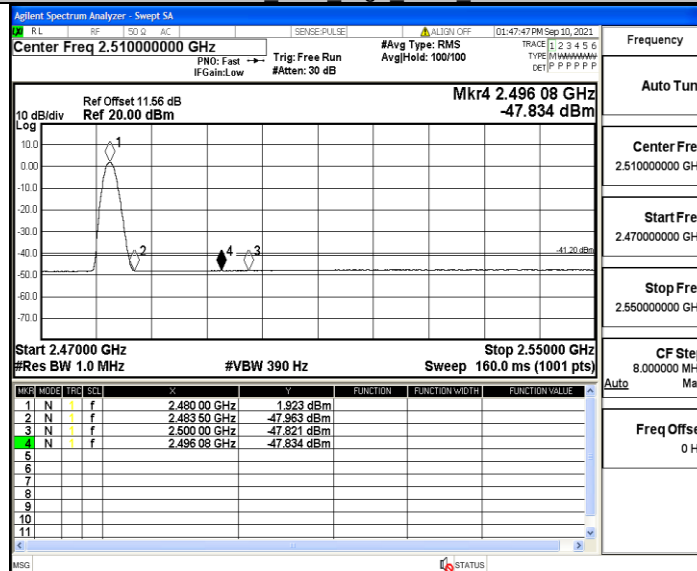
DH5 Ant1 Low 2402 AV



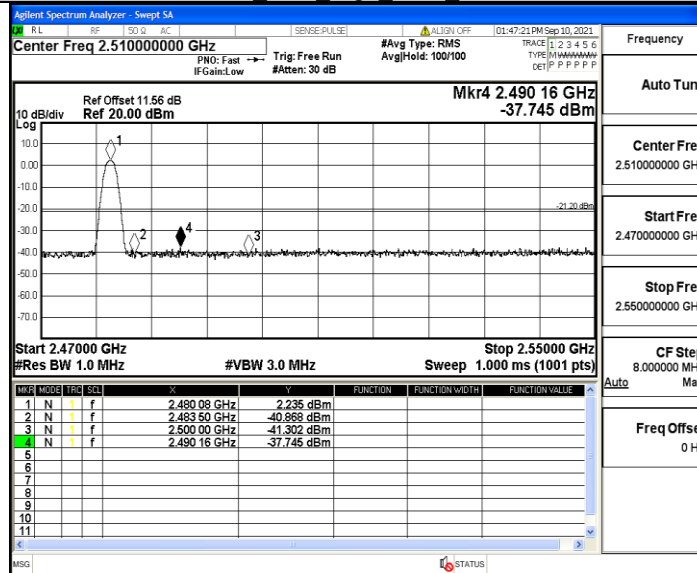
DH5 Ant1 Low 2402 Peak



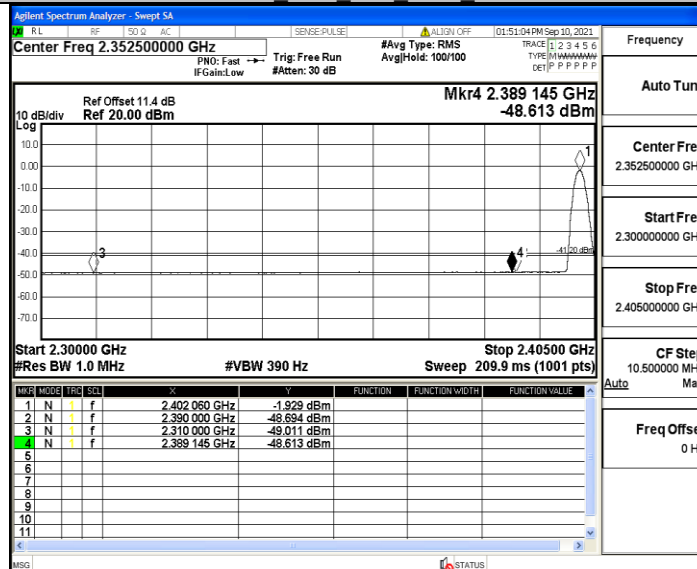
DH5 Ant1 High 2480 AV



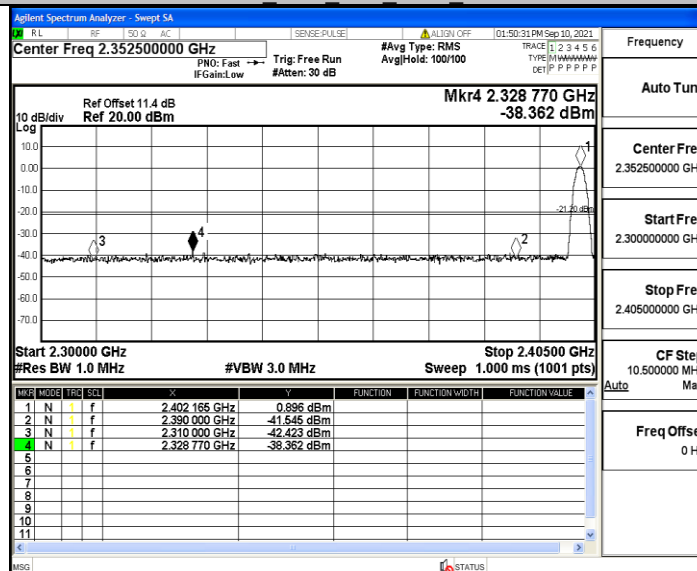
DH5_Ant1_High_2480_Peak



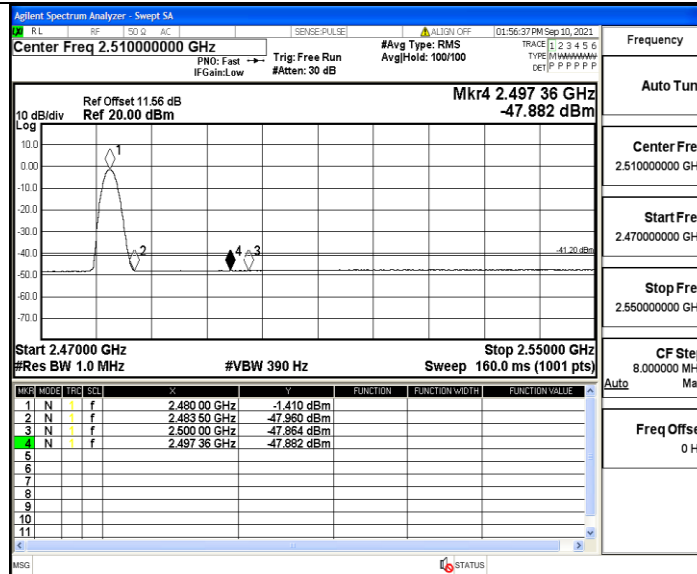
2DH5_Ant1_Low_2402_AV



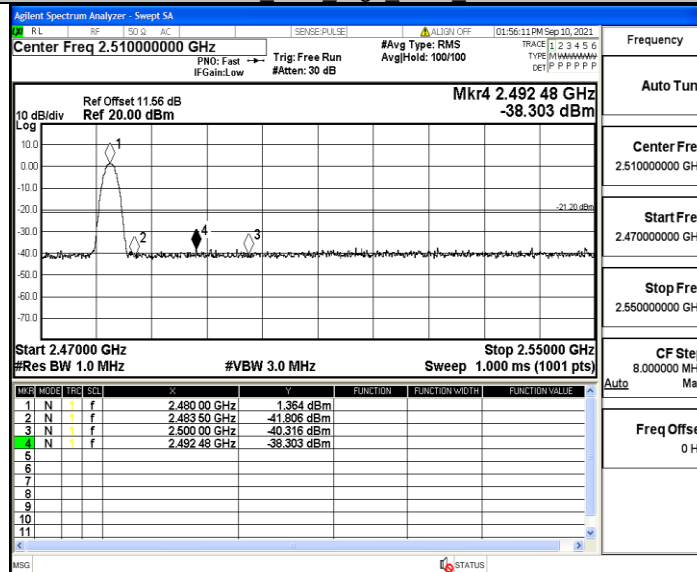
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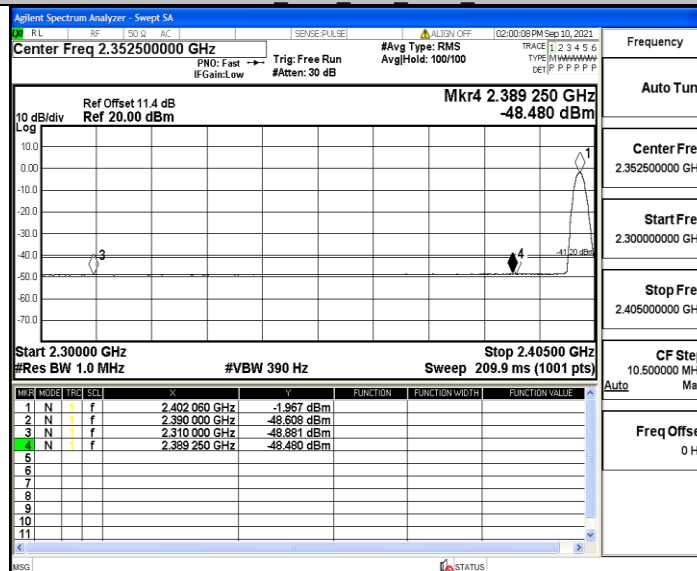
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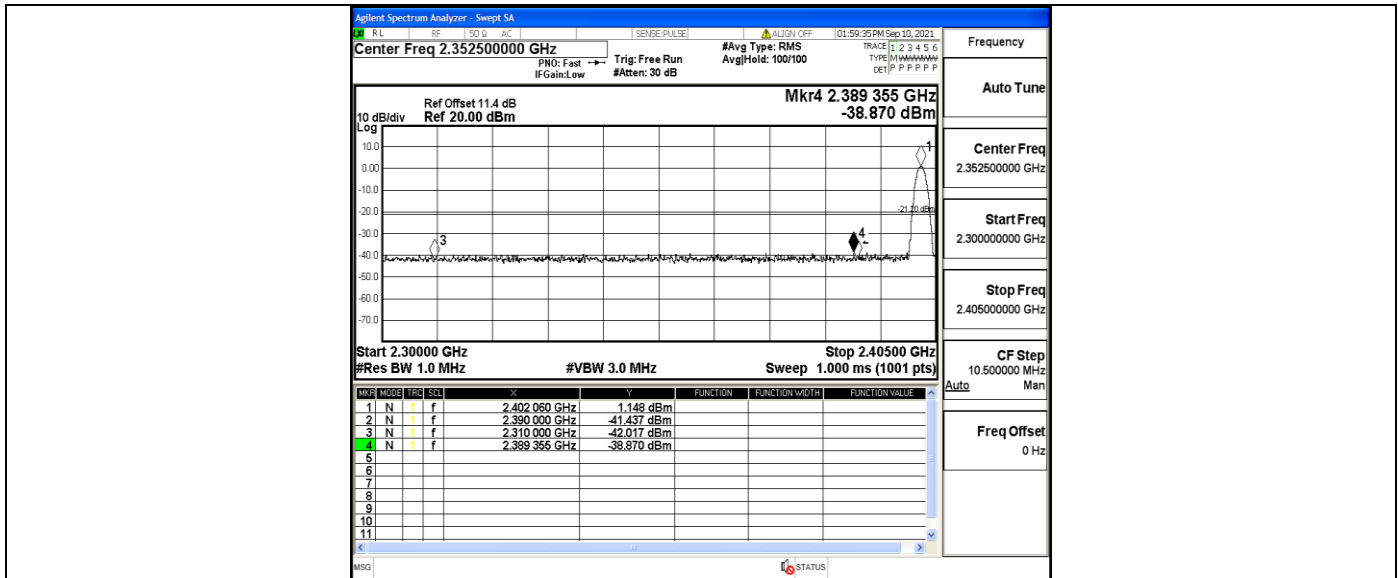
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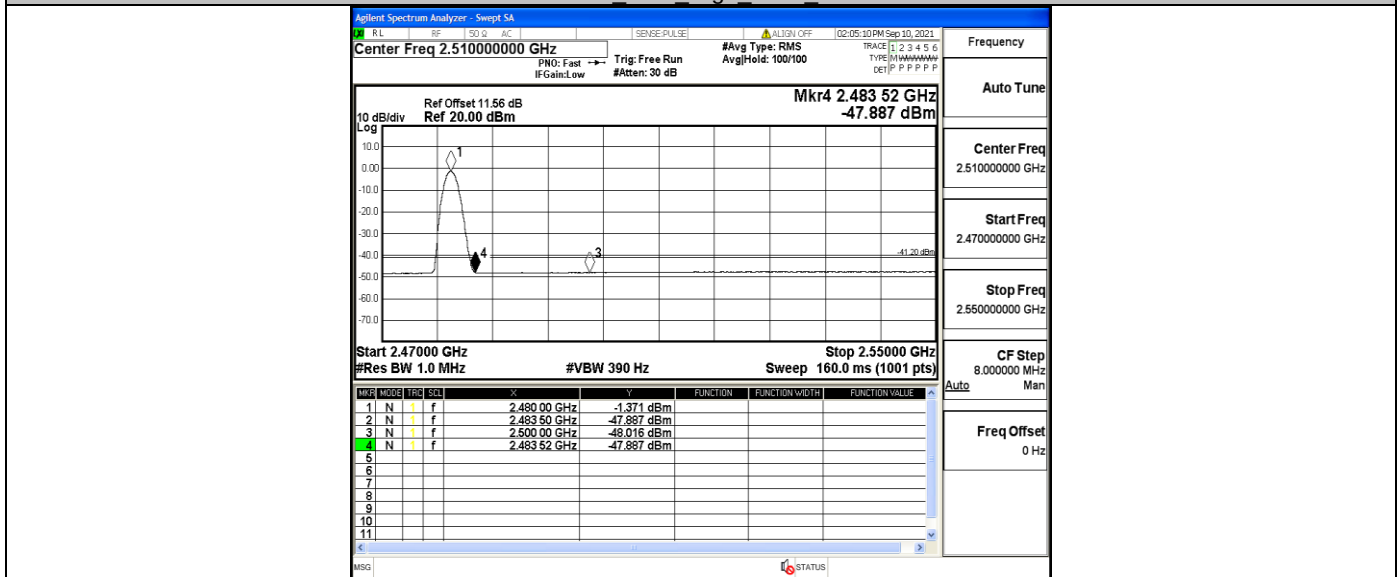
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5 Ant1_High_2480_AV



3DH5 Ant1_High_2480_Peak

