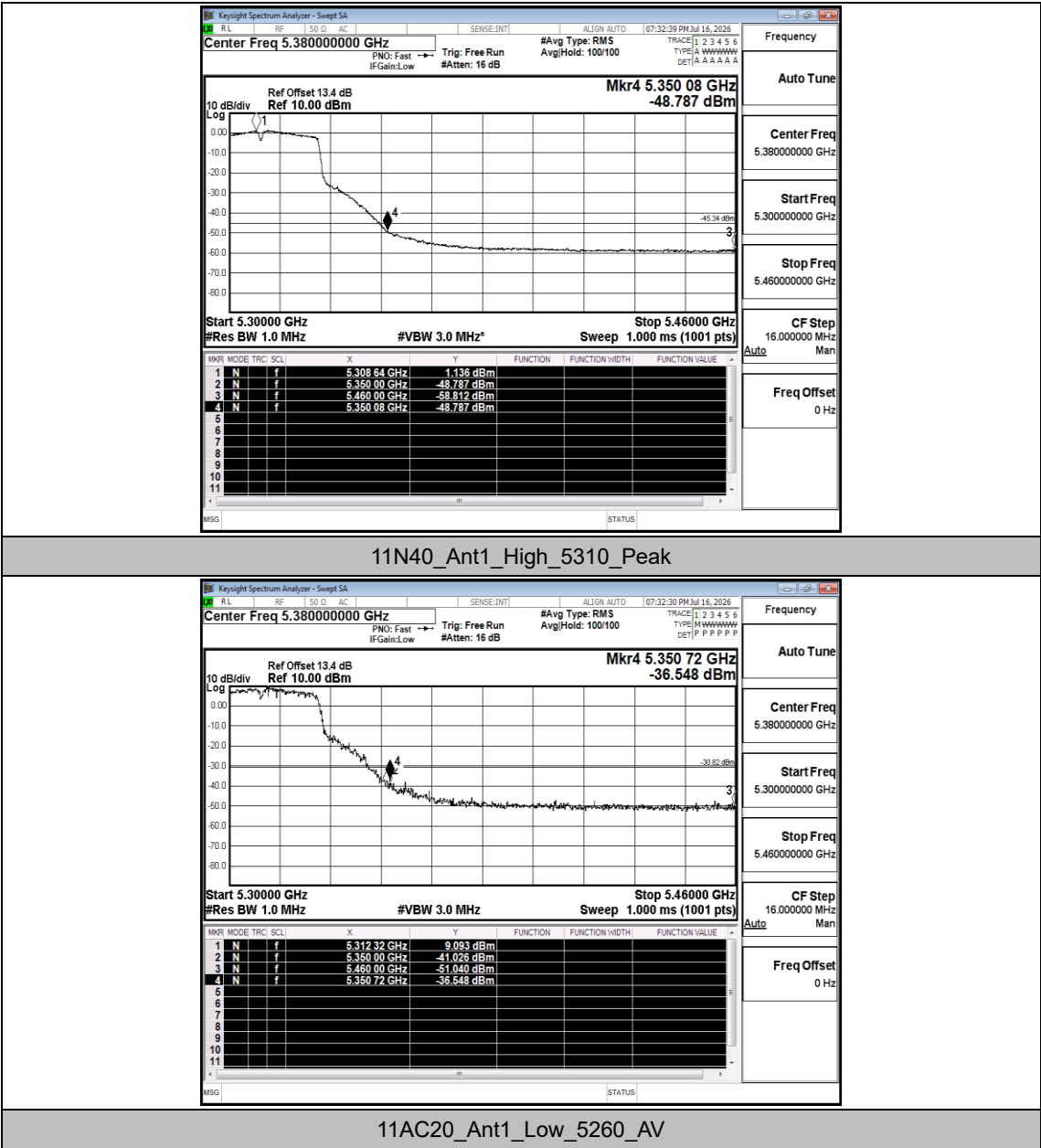
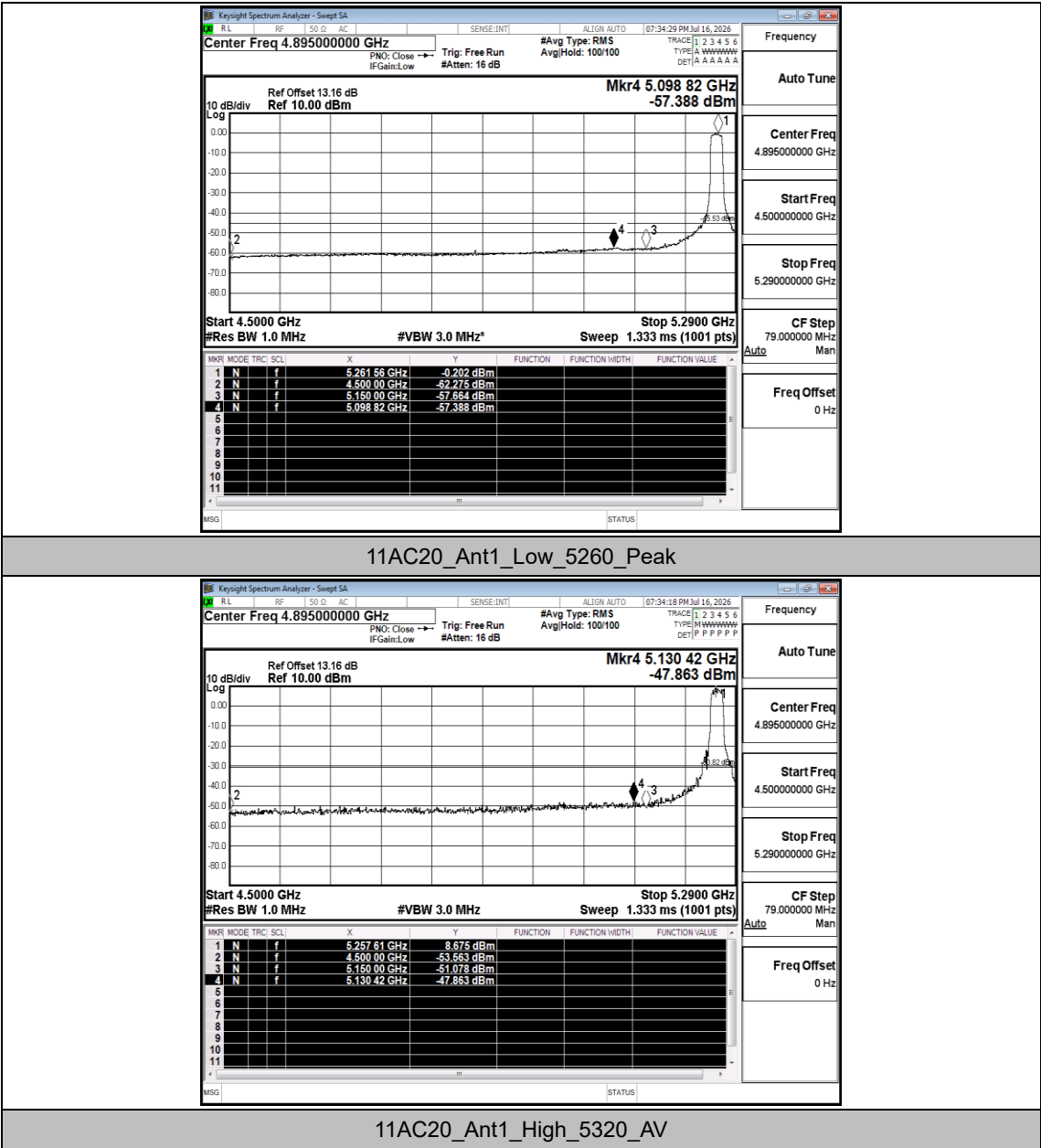
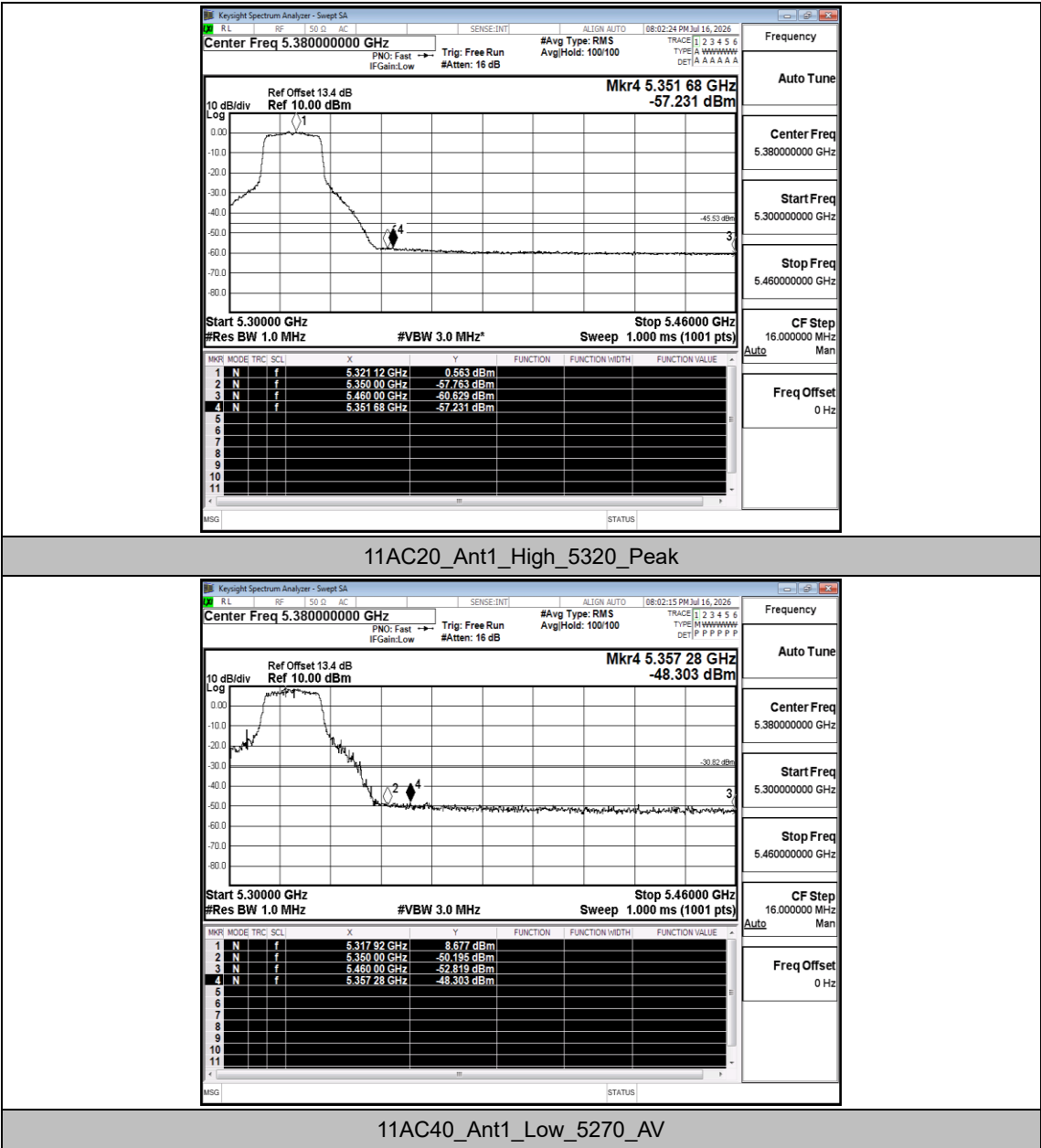
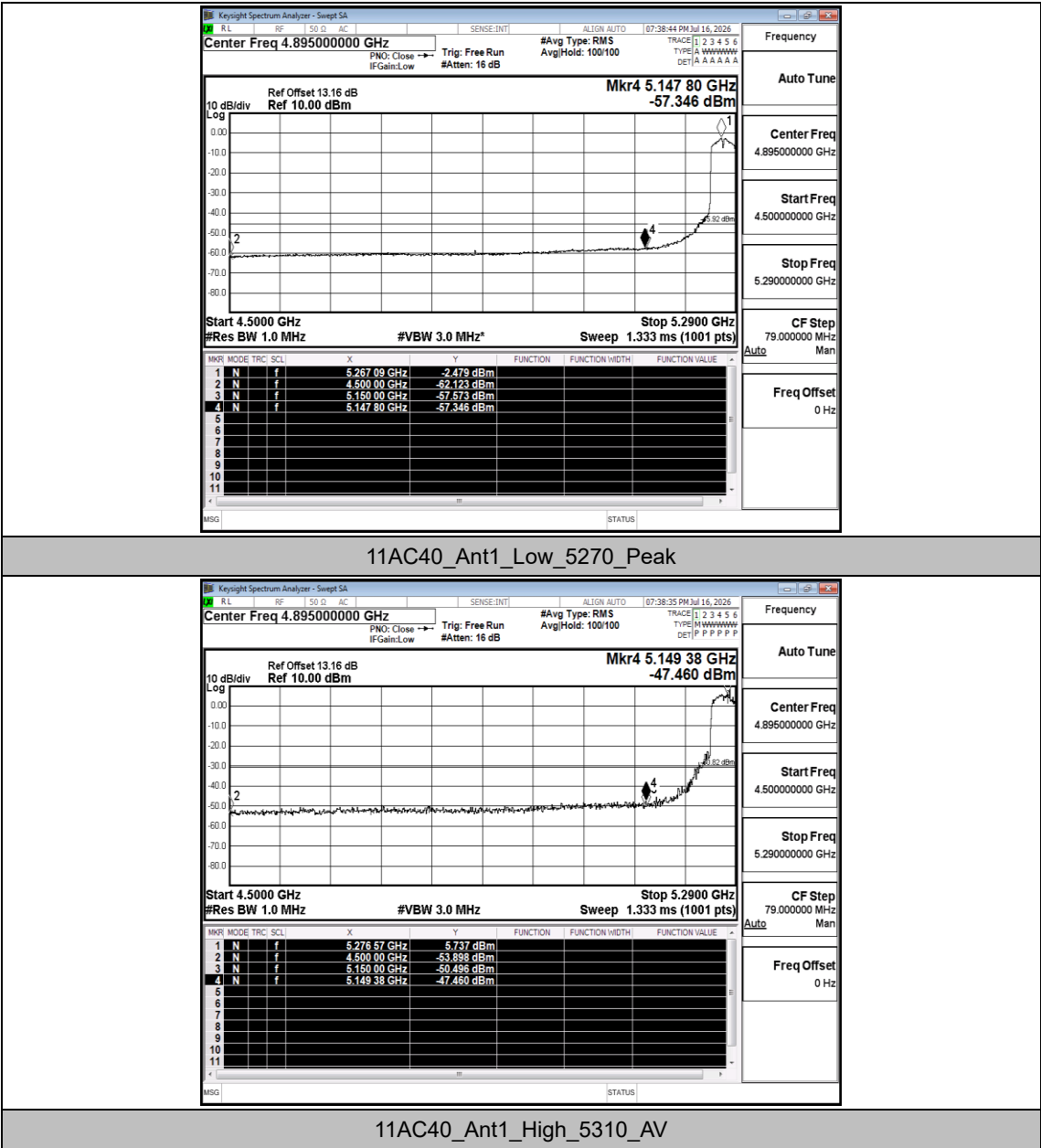
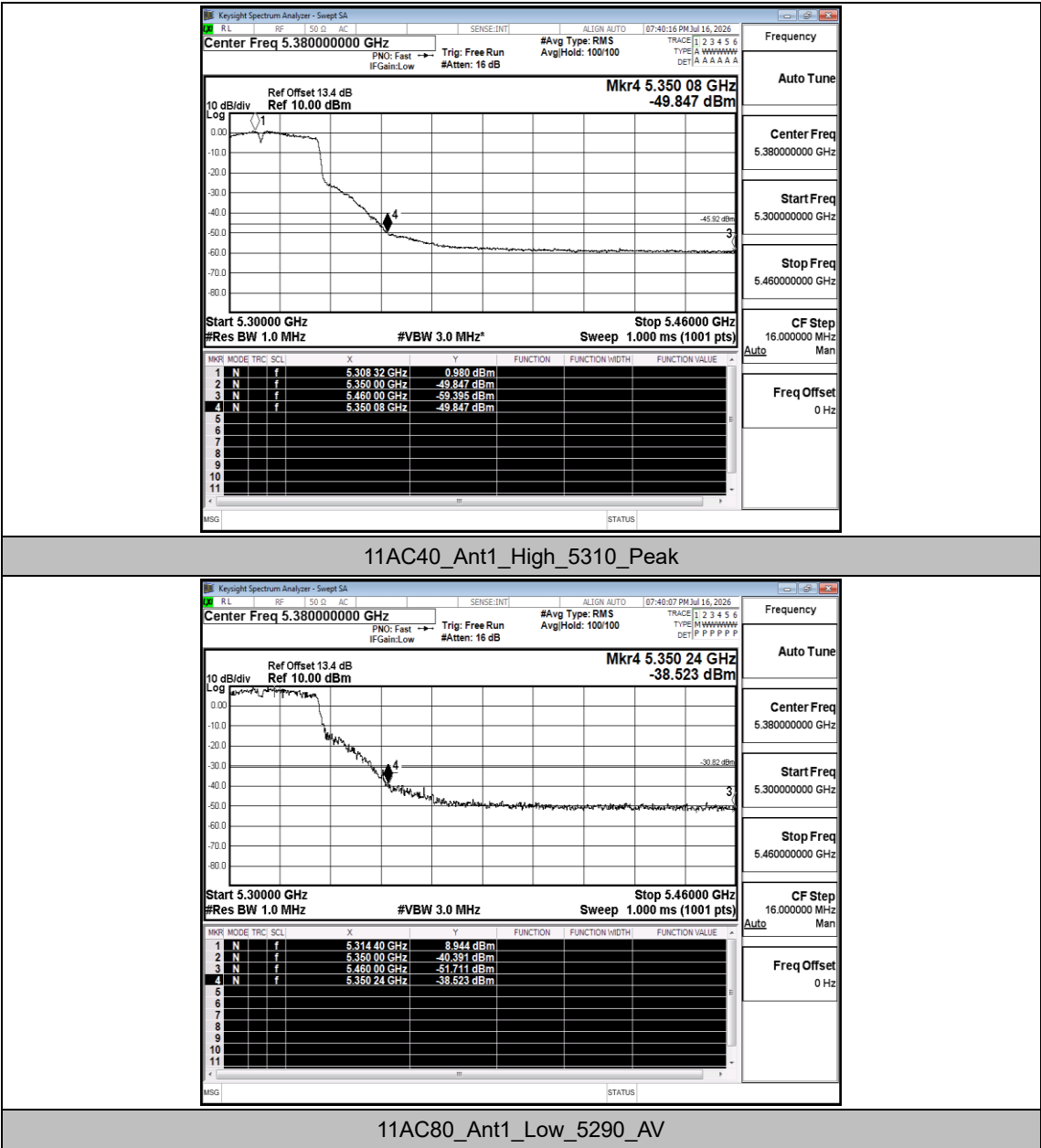












11AC40_Ant1_High_5310_Peak

Keyight Spectrum Analyzer - Sweep SA

RL

RF 150.0 AC

SENSE:INT

ALIGN:ALTO

07:40:07 PM Jul 16, 2026

Center Freq 5.380000000 GHz

PN0: Fast IFGain:Low

Trig: Free Run

#Atten: 16 dB

#Avg Type: RMS

Avg/Hold: 100/100

TRACE 1 2 3 4 5 6

TYPE: M W W W W W

DET: P P P P P P

Frequency

Auto Tune

Center Freq 5.380000000 GHz

Start Freq 5.300000000 GHz

Stop Freq 5.460000000 GHz

CF Step 16.000000 MHz

Auto

Man

Freq Offset 0 Hz

10 dB/div

Ref Offset 13.4 dB

Ref 10.00 dBm

Mkr4 5.350 24 GHz

-38.523 dBm

Log

0.00

-10.00

-20.00

-30.00

-40.00

-50.00

-60.00

-70.00

-80.00

Start 5.30000 GHz

#Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 1.000 ms (1001 pts)

Stop 5.46000 GHz

1

2

3

4

5

6

7

8

9

10

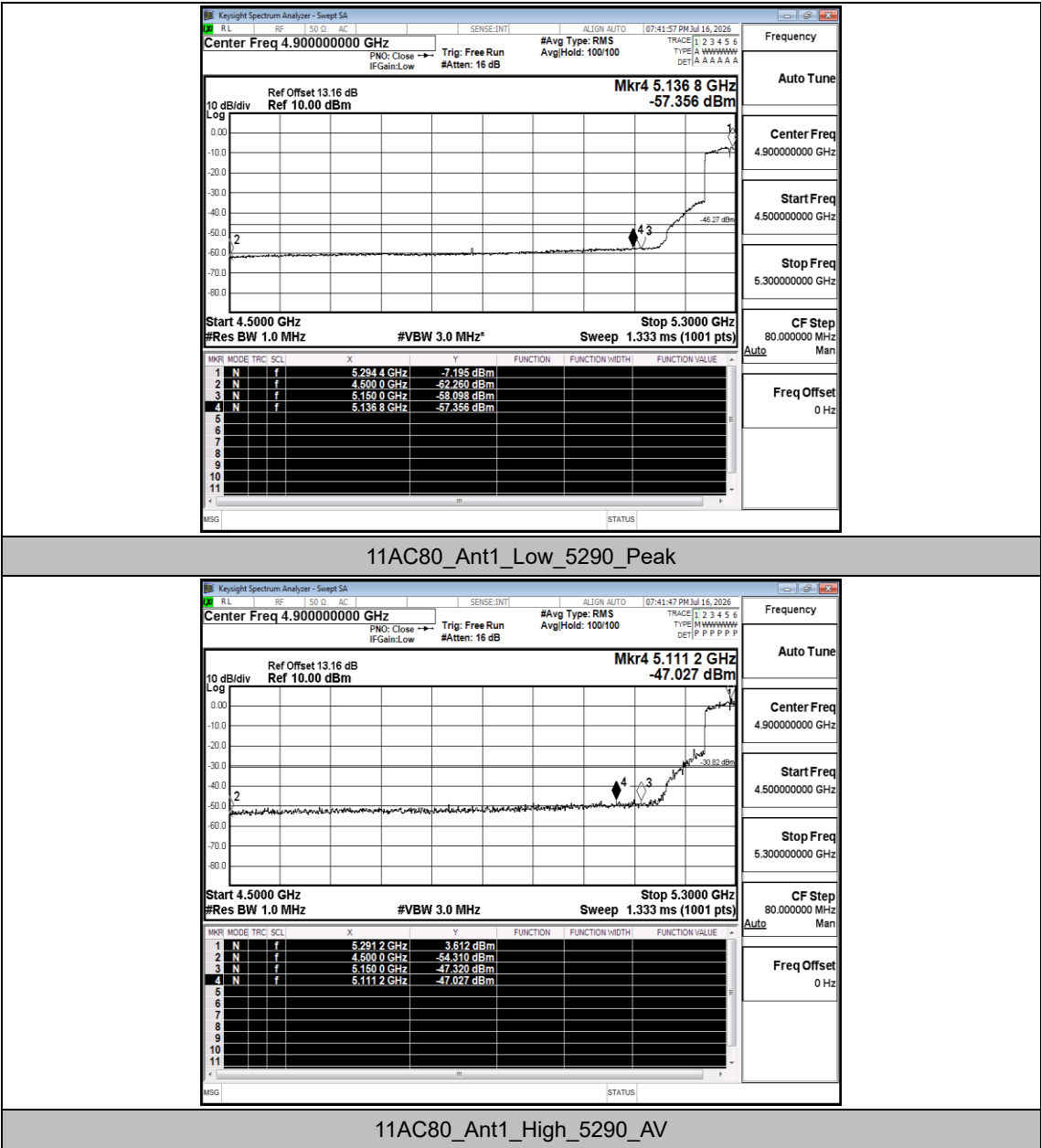
11

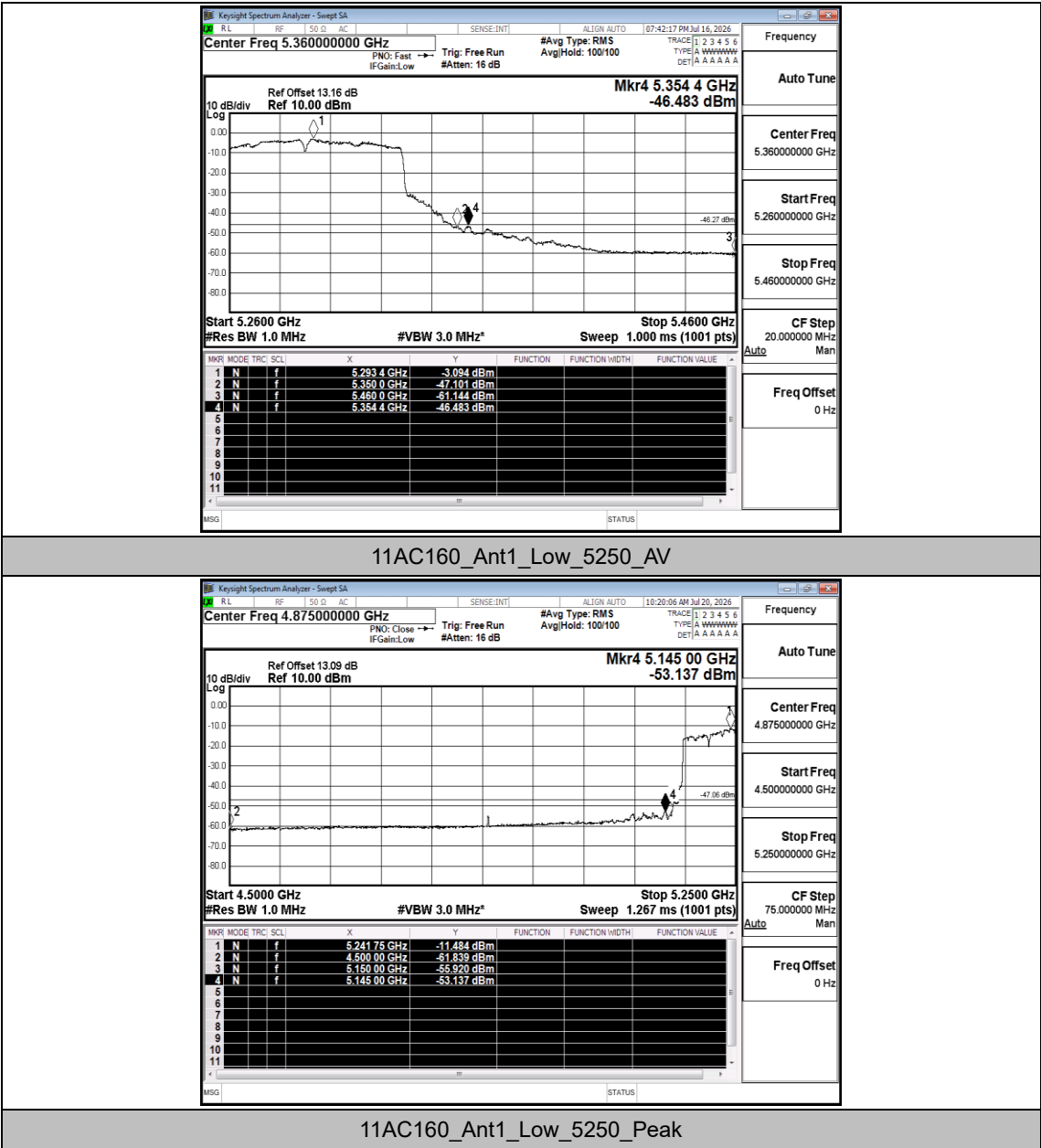
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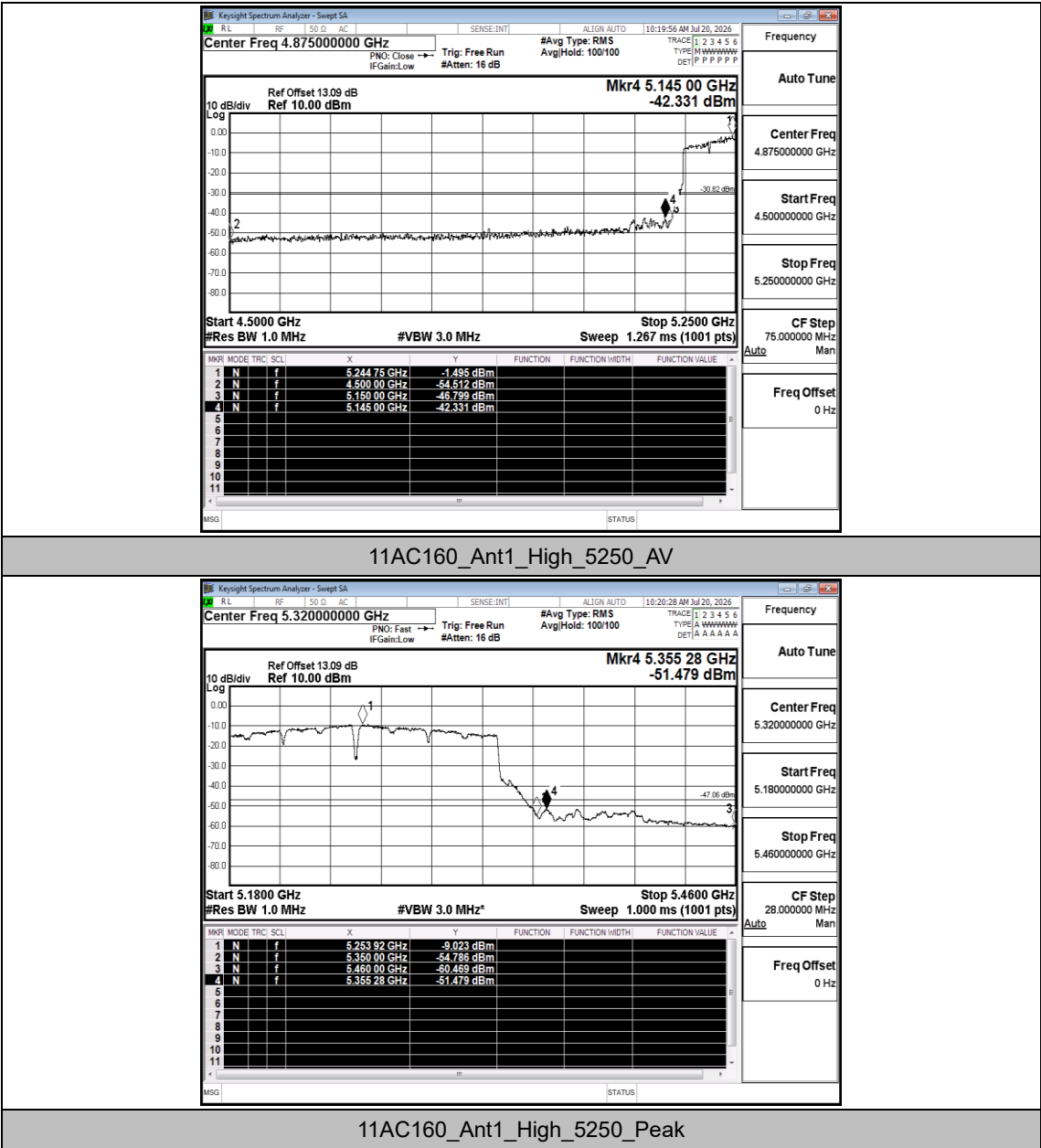
STATUS

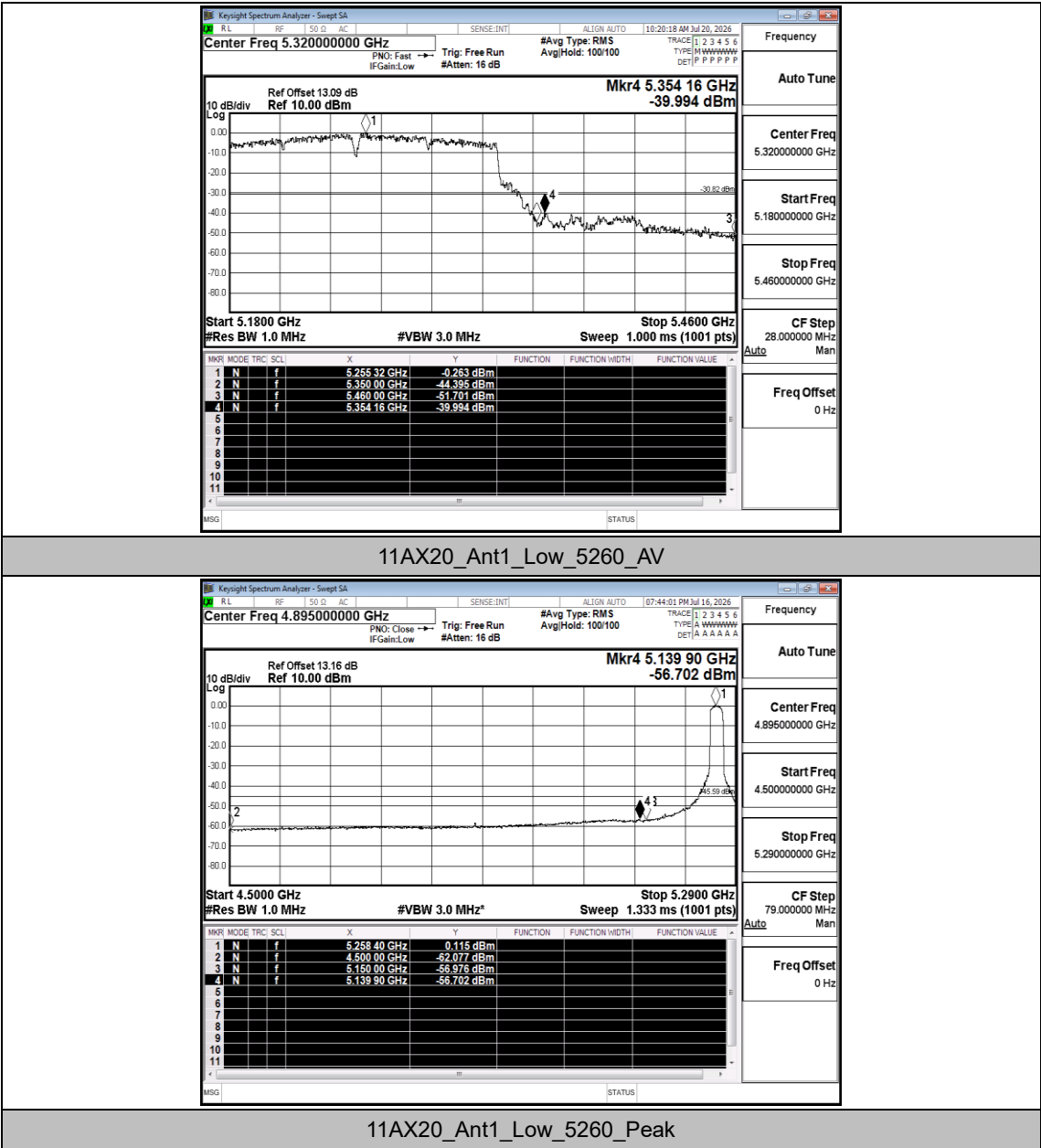
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		5.314 40 GHz	8.944 dBm			
2	N	f		5.350 00 GHz	-40.391 dBm			
3	N	f		5.460 00 GHz	-51.711 dBm			
4	N	f		5.350 24 GHz	-38.523 dBm			

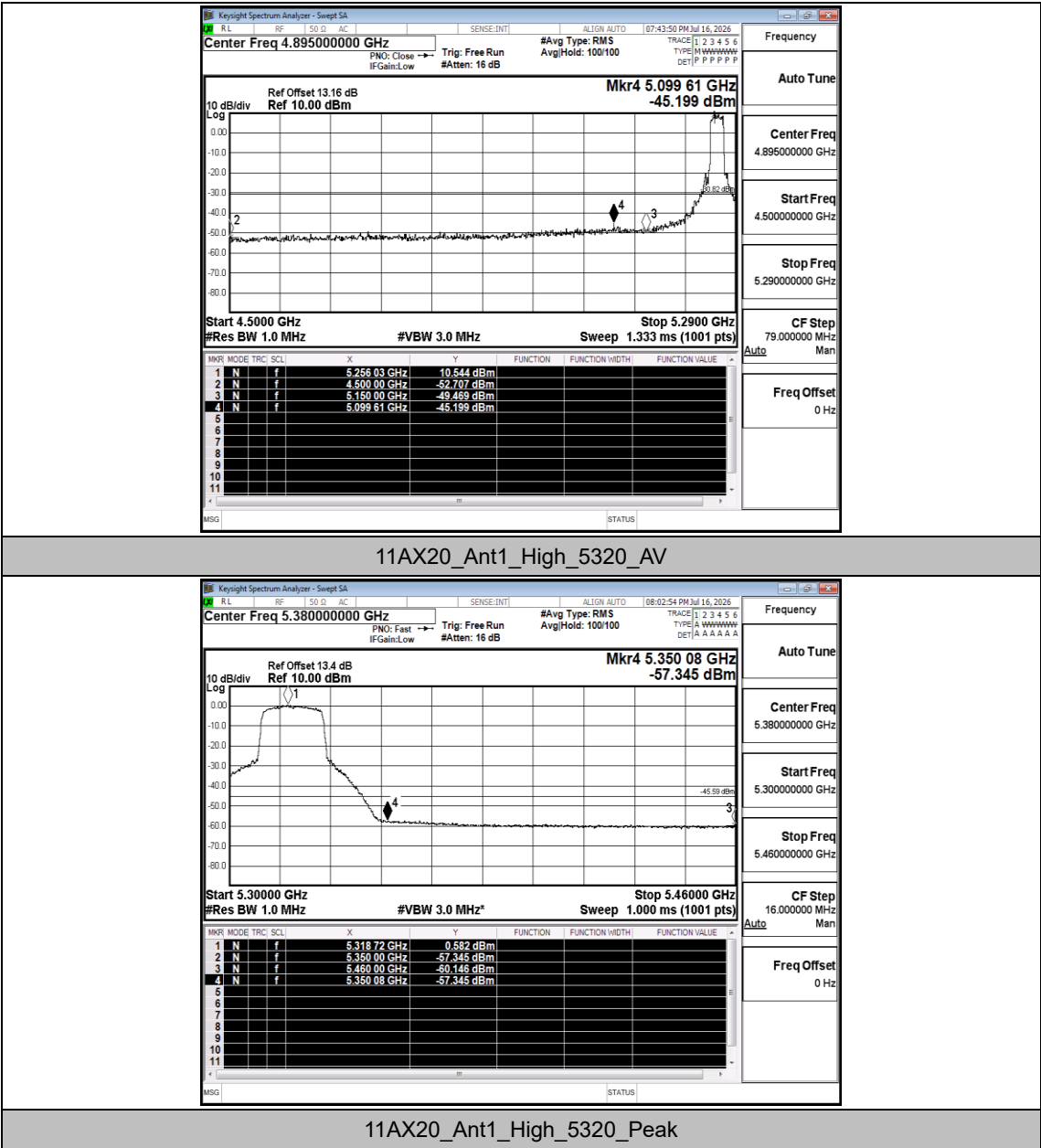
11AC80_Ant1_Low_5290_AV

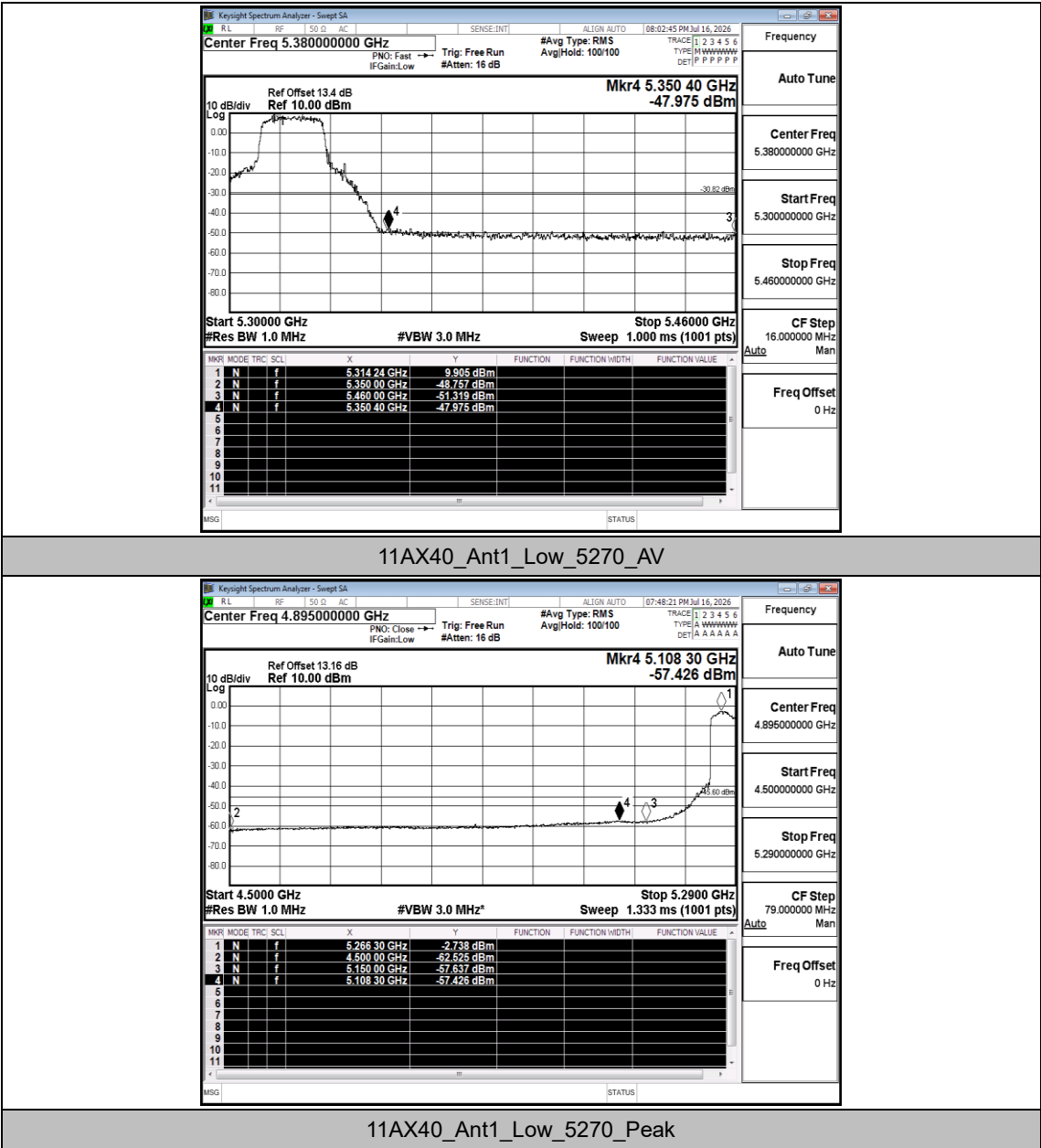


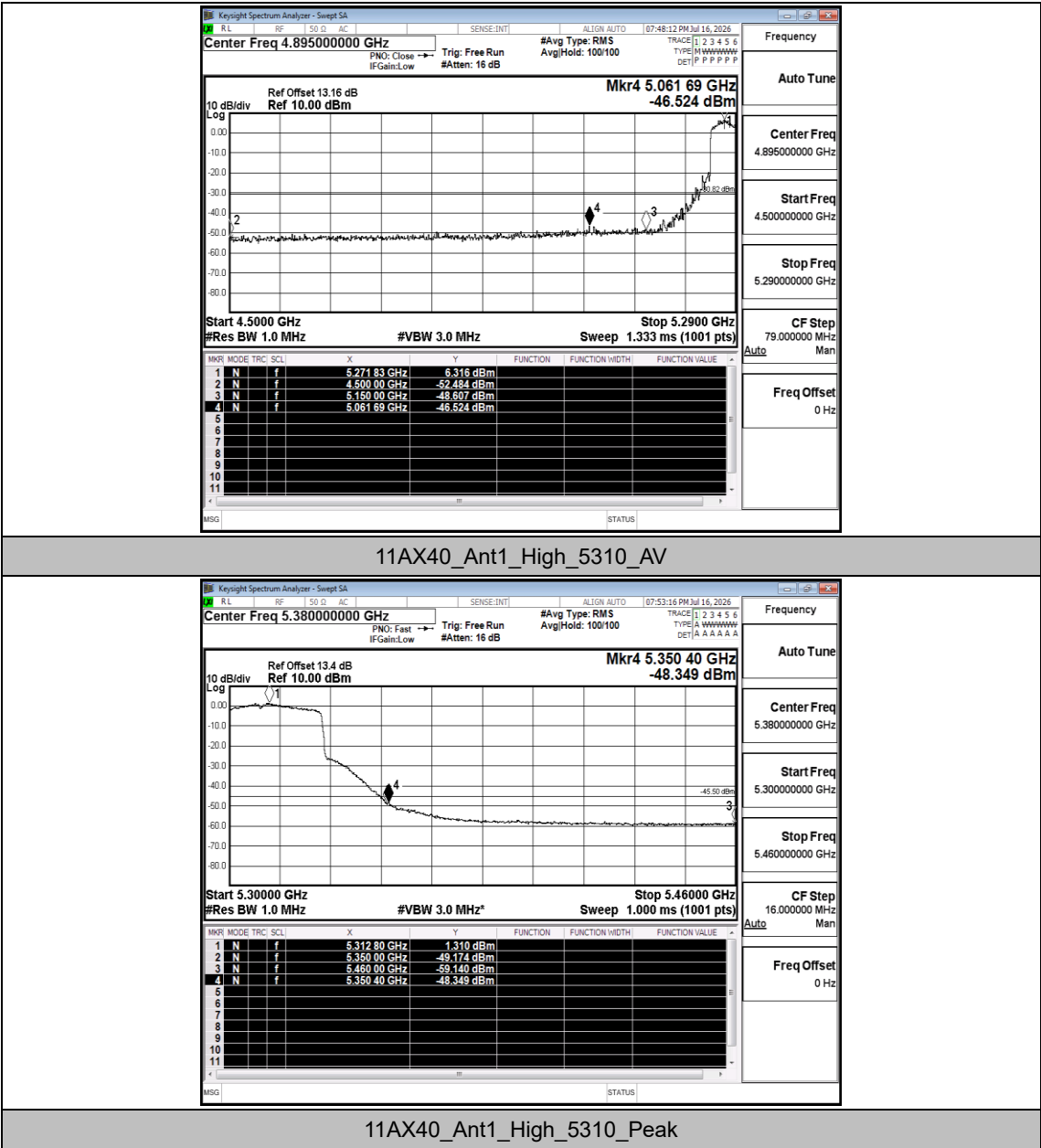


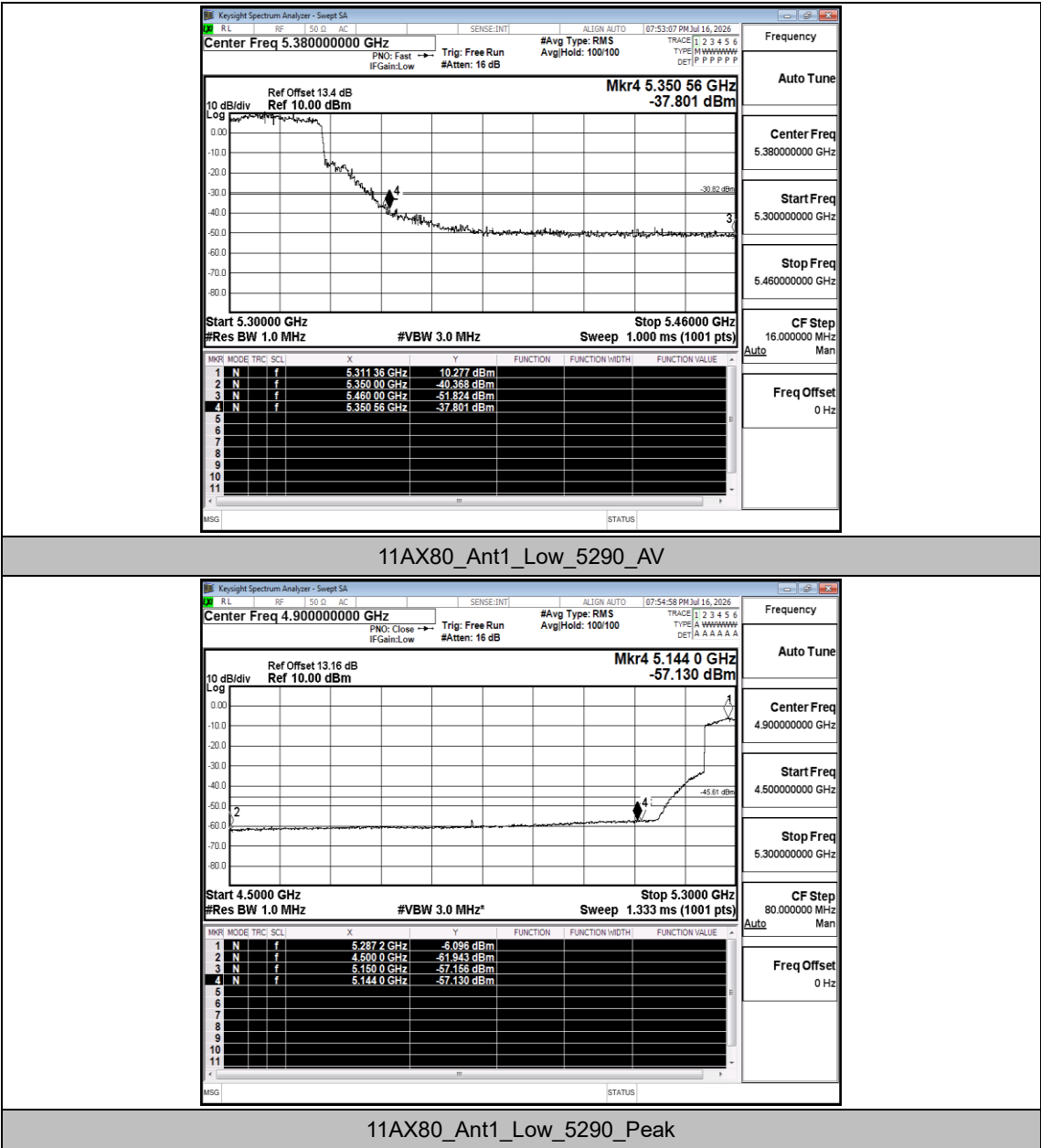


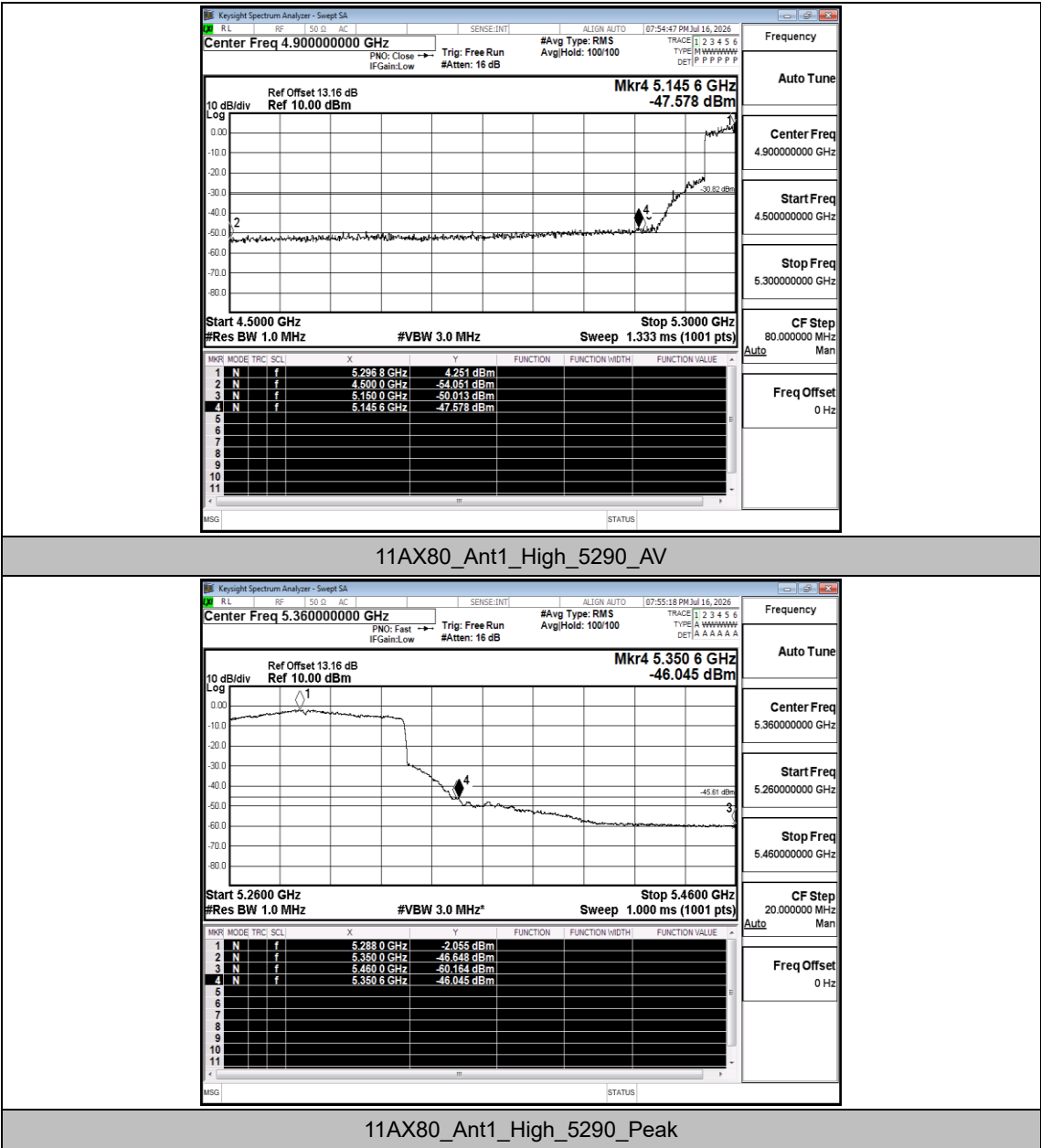


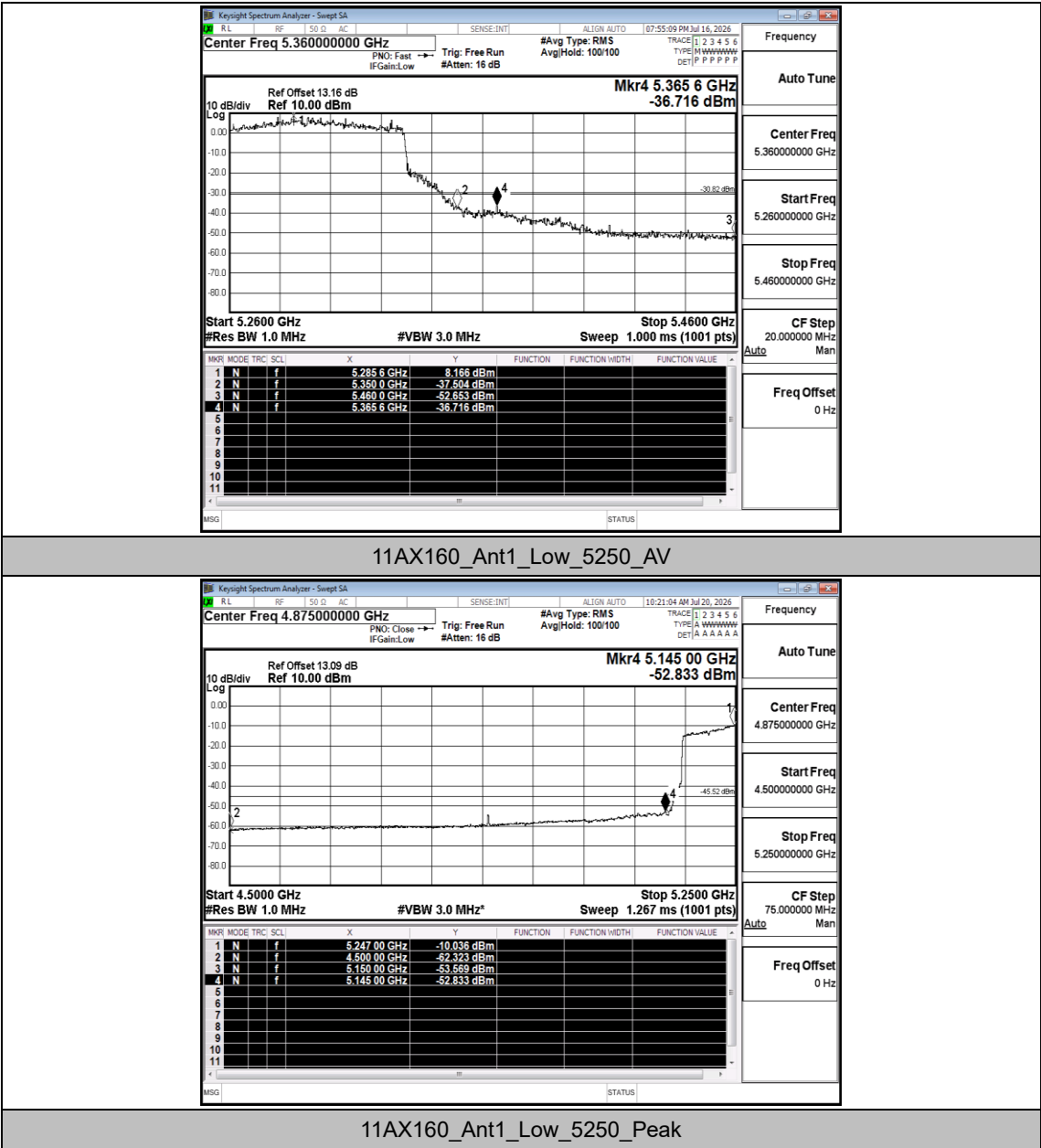


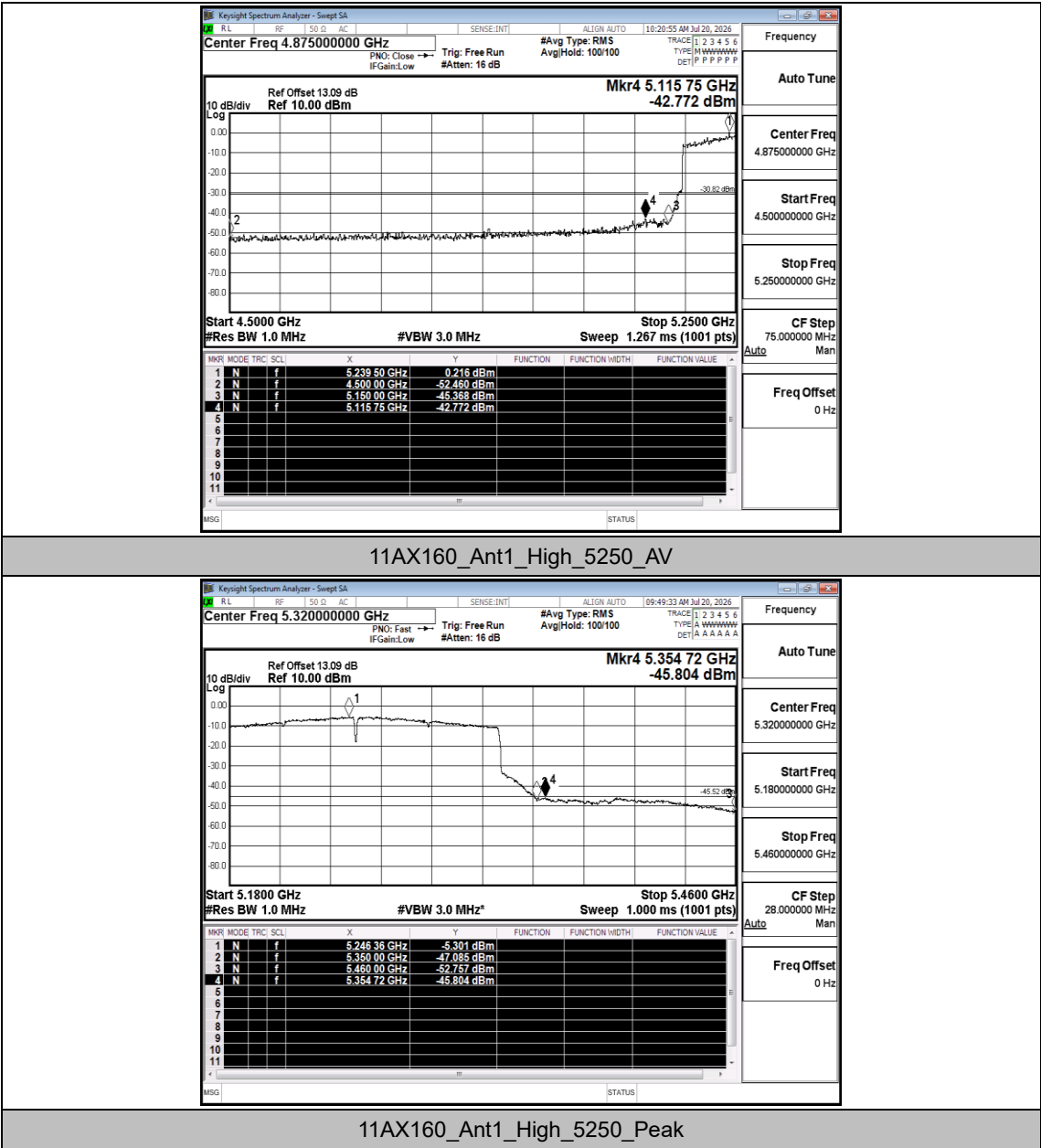


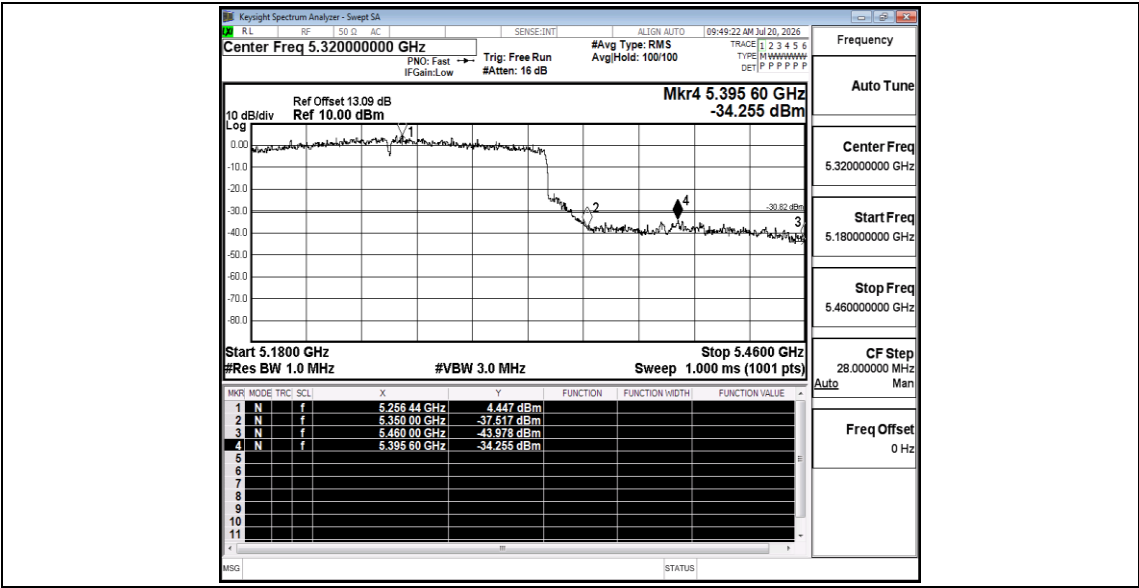












E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-40000.00	-7.604563	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
		5280	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.575758	20	PASS
			HV	NT	-20000.00	-3.787879	20	PASS
		5320	NV	NT	-20000.00	-3.759398	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
11N20	Ant1	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.604563	20	PASS
		5280	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.575758	20	PASS
		5320	NV	NT	-40000.00	-7.518797	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40	Ant1	5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5310	NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.532957	20	PASS
11AC20	Ant1	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-40000.00	-7.604563	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
		5280	NV	NT	-40000.00	-7.575758	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.575758	20	PASS
		5320	NV	NT	-20000.00	-3.759398	20	PASS
			LV	NT	-40000.00	-7.518797	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
11AC40	Ant1	5270	NV	NT	0.00	0.000000	20	PASS

		5310	LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-80000.00	-15.180266	20	PASS
			NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.532957	20	PASS
11AC80	Ant1	5290	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-15.122873	20	PASS
			HV	NT	-80000.00	-15.122873	20	PASS
11AC160	Ant1	5250	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX20	Ant1	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
		5280	NV	NT	-40000.00	-7.575758	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	-40000.00	-7.575758	20	PASS
		5320	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.518797	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
11AX40	Ant1	5270	NV	NT	-40000.00	-7.590133	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
		5310	NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	-40000.00	-7.532957	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX80	Ant1	5290	NV	NT	-80000.00	-15.122873	20	PASS
			LV	NT	-80000.00	-15.122873	20	PASS
			HV	NT	-80000.00	-15.122873	20	PASS
11AX160	Ant1	5250	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5260	NV	-30	-20000.00	-3.802281	20	PASS
			NV	-20	-20000.00	-3.802281	20	PASS
			NV	-10	-20000.00	-3.802281	20	PASS
			NV	0	-20000.00	-3.802281	20	PASS
			NV	10	-20000.00	-3.802281	20	PASS
			NV	20	-20000.00	-3.802281	20	PASS
			NV	30	-40000.00	-7.604563	20	PASS
			NV	40	-20000.00	-3.802281	20	PASS
			NV	50	-20000.00	-3.802281	20	PASS
		5280	NV	-30	-20000.00	-3.787879	20	PASS
			NV	-20	-40000.00	-7.575758	20	PASS
			NV	-10	-20000.00	-3.787879	20	PASS
			NV	0	-20000.00	-3.787879	20	PASS
			NV	10	-20000.00	-3.787879	20	PASS
			NV	20	-20000.00	-3.787879	20	PASS
			NV	30	-20000.00	-3.787879	20	PASS
			NV	40	-20000.00	-3.787879	20	PASS
			NV	50	-20000.00	-3.787879	20	PASS
		5320	NV	-30	-20000.00	-3.759398	20	PASS
			NV	-20	-20000.00	-3.759398	20	PASS
			NV	-10	-20000.00	-3.759398	20	PASS
			NV	0	-20000.00	-3.759398	20	PASS
			NV	10	-20000.00	-3.759398	20	PASS
			NV	20	-20000.00	-3.759398	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS
			NV	40	-20000.00	-3.759398	20	PASS
			NV	50	-20000.00	-3.759398	20	PASS
11N20	Ant1	5260	NV	-30	-40000.00	-7.604563	20	PASS
			NV	-20	-20000.00	-3.802281	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.802281	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-7.604563	20	PASS
			NV	30	-20000.00	-3.802281	20	PASS
			NV	40	-20000.00	-3.802281	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5280	NV	-30	-40000.00	-7.575758	20	PASS

			NV	-20	-20000.00	-3.787879	20	PASS
			NV	-10	-40000.00	-7.575758	20	PASS
			NV	0	-20000.00	-3.787879	20	PASS
			NV	10	-20000.00	-3.787879	20	PASS
			NV	20	-20000.00	-3.787879	20	PASS
			NV	30	-20000.00	-3.787879	20	PASS
			NV	40	-20000.00	-3.787879	20	PASS
			NV	50	-20000.00	-3.787879	20	PASS
		5320	NV	-30	-20000.00	-3.759398	20	PASS
			NV	-20	-40000.00	-7.518797	20	PASS
			NV	-10	-40000.00	-7.518797	20	PASS
			NV	0	-40000.00	-7.518797	20	PASS
			NV	10	-20000.00	-3.759398	20	PASS
			NV	20	-20000.00	-3.759398	20	PASS
			NV	30	-60000.00	-11.278195	20	PASS
			NV	40	-40000.00	-7.518797	20	PASS
			NV	50	-20000.00	-3.759398	20	PASS
11N40	Ant1	5270	NV	-30	-40000.00	-7.590133	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.590133	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.590133	20	PASS
			NV	20	-80000.00	-15.180266	20	PASS
			NV	30	-40000.00	-7.590133	20	PASS
			NV	40	-40000.00	-7.590133	20	PASS
			NV	50	-40000.00	-7.590133	20	PASS
		5310	NV	-30	-80000.00	-15.065913	20	PASS
			NV	-20	-40000.00	-7.532957	20	PASS
			NV	-10	-40000.00	-7.532957	20	PASS
			NV	0	-80000.00	-15.065913	20	PASS
			NV	10	-40000.00	-7.532957	20	PASS
			NV	20	-40000.00	-7.532957	20	PASS
			NV	30	-40000.00	-7.532957	20	PASS
			NV	40	-40000.00	-7.532957	20	PASS
			NV	50	-40000.00	-7.532957	20	PASS
11AC20	Ant1	5260	NV	-30	-20000.00	-3.802281	20	PASS
			NV	-20	-20000.00	-3.802281	20	PASS
			NV	-10	-20000.00	-3.802281	20	PASS
			NV	0	-20000.00	-3.802281	20	PASS
			NV	10	-40000.00	-7.604563	20	PASS
			NV	20	0.00	0.000000	20	PASS

			NV	30	-40000.00	-7.604563	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.802281	20	PASS
		5280	NV	-30	-40000.00	-7.575758	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.575758	20	PASS
			NV	0	-20000.00	-3.787879	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-60000.00	-11.363636	20	PASS
			NV	30	-40000.00	-7.575758	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.787879	20	PASS
		5320	NV	-30	-20000.00	-3.759398	20	PASS
			NV	-20	-40000.00	-7.518797	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.518797	20	PASS
			NV	10	-20000.00	-3.759398	20	PASS
			NV	20	-20000.00	-3.759398	20	PASS
			NV	30	-40000.00	-7.518797	20	PASS
			NV	40	-40000.00	-7.518797	20	PASS
			NV	50	-20000.00	-3.759398	20	PASS
11AC40	Ant1	5270	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-80000.00	-15.180266	20	PASS
			NV	-10	-40000.00	-7.590133	20	PASS
			NV	0	-80000.00	-15.180266	20	PASS
			NV	10	-40000.00	-7.590133	20	PASS
			NV	20	-40000.00	-7.590133	20	PASS
			NV	30	-40000.00	-7.590133	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.590133	20	PASS
		5310	NV	-30	-80000.00	-15.065913	20	PASS
			NV	-20	-40000.00	-7.532957	20	PASS
			NV	-10	-40000.00	-7.532957	20	PASS
			NV	0	-40000.00	-7.532957	20	PASS
			NV	10	-80000.00	-15.065913	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.532957	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.532957	20	PASS
11AC80	Ant1	5290	NV	-30	-80000.00	-15.122873	20	PASS
			NV	-20	-80000.00	-15.122873	20	PASS

			NV	-10	-80000.00	-15.122873	20	PASS
			NV	0	-80000.00	-15.122873	20	PASS
			NV	10	-80000.00	-15.122873	20	PASS
			NV	20	-80000.00	-15.122873	20	PASS
			NV	30	-80000.00	-15.122873	20	PASS
			NV	40	-80000.00	-15.122873	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC160	Ant1	5250	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AX20	Ant1	5260	NV	-30	-20000.00	-3.802281	20	PASS
			NV	-20	-40000.00	-7.604563	20	PASS
			NV	-10	-20000.00	-3.802281	20	PASS
			NV	0	-20000.00	-3.802281	20	PASS
			NV	10	-20000.00	-3.802281	20	PASS
			NV	20	-40000.00	-7.604563	20	PASS
			NV	30	-20000.00	-3.802281	20	PASS
			NV	40	-40000.00	-7.604563	20	PASS
			NV	50	-20000.00	-3.802281	20	PASS
		5280	NV	-30	-40000.00	-7.575758	20	PASS
			NV	-20	-40000.00	-7.575758	20	PASS
			NV	-10	-20000.00	-3.787879	20	PASS
			NV	0	-40000.00	-7.575758	20	PASS
			NV	10	-20000.00	-3.787879	20	PASS
			NV	20	-40000.00	-7.575758	20	PASS
			NV	30	-40000.00	-7.575758	20	PASS
			NV	40	-40000.00	-7.575758	20	PASS
			NV	50	-40000.00	-7.575758	20	PASS
		5320	NV	-30	-20000.00	-3.759398	20	PASS
			NV	-20	-40000.00	-7.518797	20	PASS
			NV	-10	-20000.00	-3.759398	20	PASS
			NV	0	-40000.00	-7.518797	20	PASS
			NV	10	-40000.00	-7.518797	20	PASS
			NV	20	-20000.00	-3.759398	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS

			NV	40	-40000.00	-7.518797	20	PASS
			NV	50	-40000.00	-7.518797	20	PASS
11AX40	Ant1	5270	NV	-30	-80000.00	-15.180266	20	PASS
			NV	-20	-40000.00	-7.590133	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.590133	20	PASS
			NV	10	-40000.00	-7.590133	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.590133	20	PASS
			NV	40	-40000.00	-7.590133	20	PASS
			NV	50	-40000.00	-7.590133	20	PASS
		5310	NV	-30	-40000.00	-7.532957	20	PASS
			NV	-20	-40000.00	-7.532957	20	PASS
			NV	-10	-40000.00	-7.532957	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-80000.00	-15.065913	20	PASS
			NV	30	-40000.00	-7.532957	20	PASS
			NV	40	-80000.00	-15.065913	20	PASS
			NV	50	-80000.00	-15.065913	20	PASS
11AX80	Ant1	5290	NV	-30	-80000.00	-15.122873	20	PASS
			NV	-20	-80000.00	-15.122873	20	PASS
			NV	-10	-80000.00	-15.122873	20	PASS
			NV	0	-80000.00	-15.122873	20	PASS
			NV	10	-80000.00	-15.122873	20	PASS
			NV	20	-80000.00	-15.122873	20	PASS
			NV	30	-80000.00	-15.122873	20	PASS
			NV	40	-80000.00	-15.122873	20	PASS
			NV	50	-80000.00	-15.122873	20	PASS
11AX160	Ant1	5250	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

E.6 Duty Cycle

Test Result

TestMode	Antenna	Freq (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	Limit	Verdict
11A	Ant1	5260	1.40	1.45	96.55	0.15	---	---
		5280	1.40	1.45	96.55	0.15	---	---
		5320	1.39	1.45	95.86	0.18	---	---
11N20	Ant1	5260	1.30	1.36	95.59	0.20	---	---
		5280	1.30	1.36	95.59	0.20	---	---
		5320	1.30	1.36	95.59	0.20	---	---
11N40	Ant1	5270	0.65	0.71	91.55	0.38	---	---
		5310	0.65	0.70	92.86	0.32	---	---
11AC20	Ant1	5260	0.48	0.54	88.89	0.51	---	---
		5280	0.48	0.54	88.89	0.51	---	---
		5320	0.48	0.54	88.89	0.51	---	---
11AC40	Ant1	5270	0.26	0.32	81.25	0.90	---	---
		5310	0.26	0.32	81.25	0.90	---	---
11AC80	Ant1	5290	0.15	0.20	75.00	1.25	---	---
11AC160	Ant1	5250	0.10	0.16	62.50	2.04	---	---
11AX20	Ant1	5260	0.43	0.49	87.76	0.57	---	---
		5280	0.43	0.49	87.76	0.57	---	---
		5320	0.43	0.49	87.76	0.57	---	---
11AX40	Ant1	5270	0.42	0.48	87.50	0.58	---	---
		5310	0.43	0.48	89.58	0.48	---	---
11AX80	Ant1	5290	0.41	0.47	87.23	0.59	---	---
11AX160	Ant1	5250	0.41	0.46	89.13	0.50	---	---

Test Graphs

