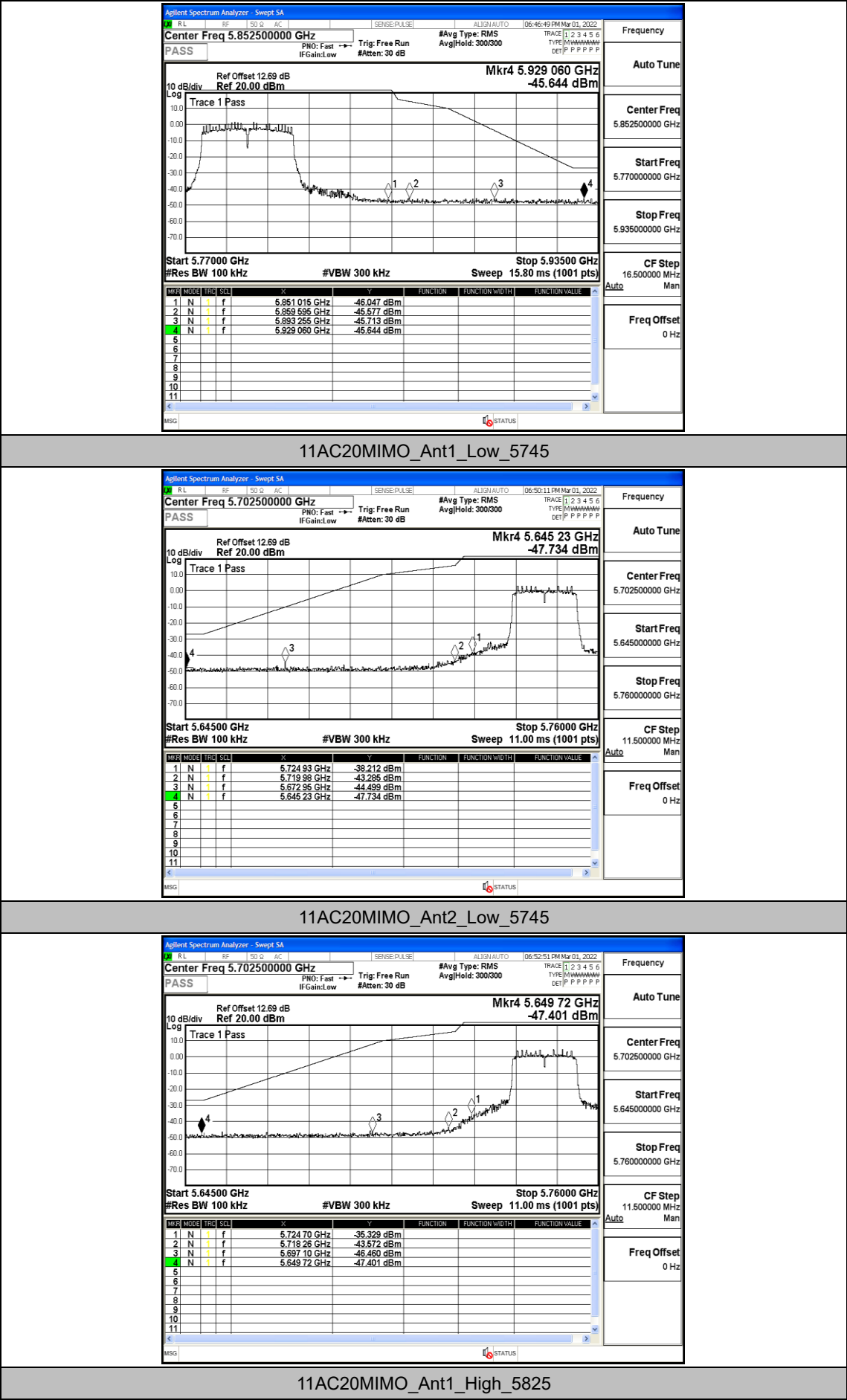
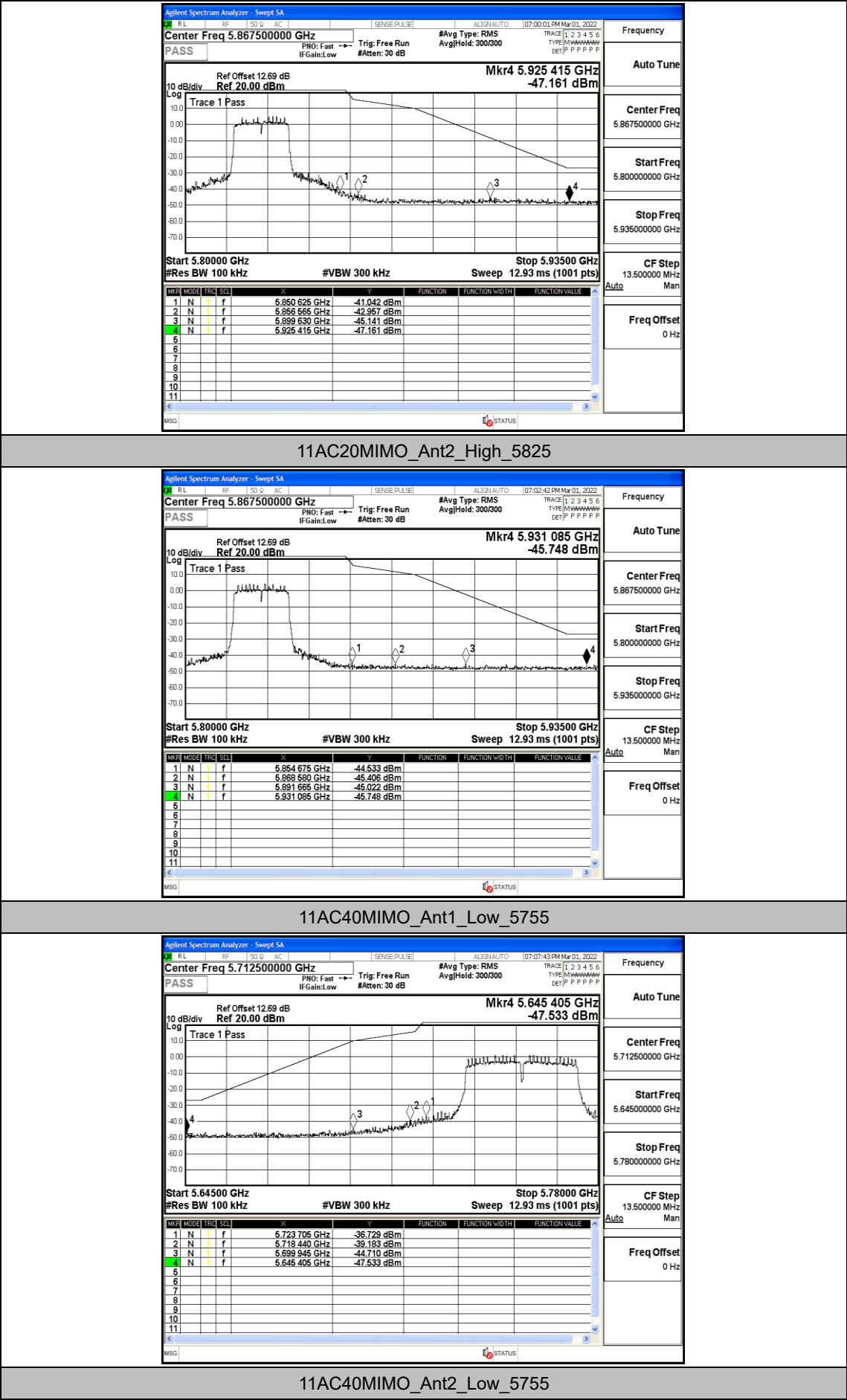
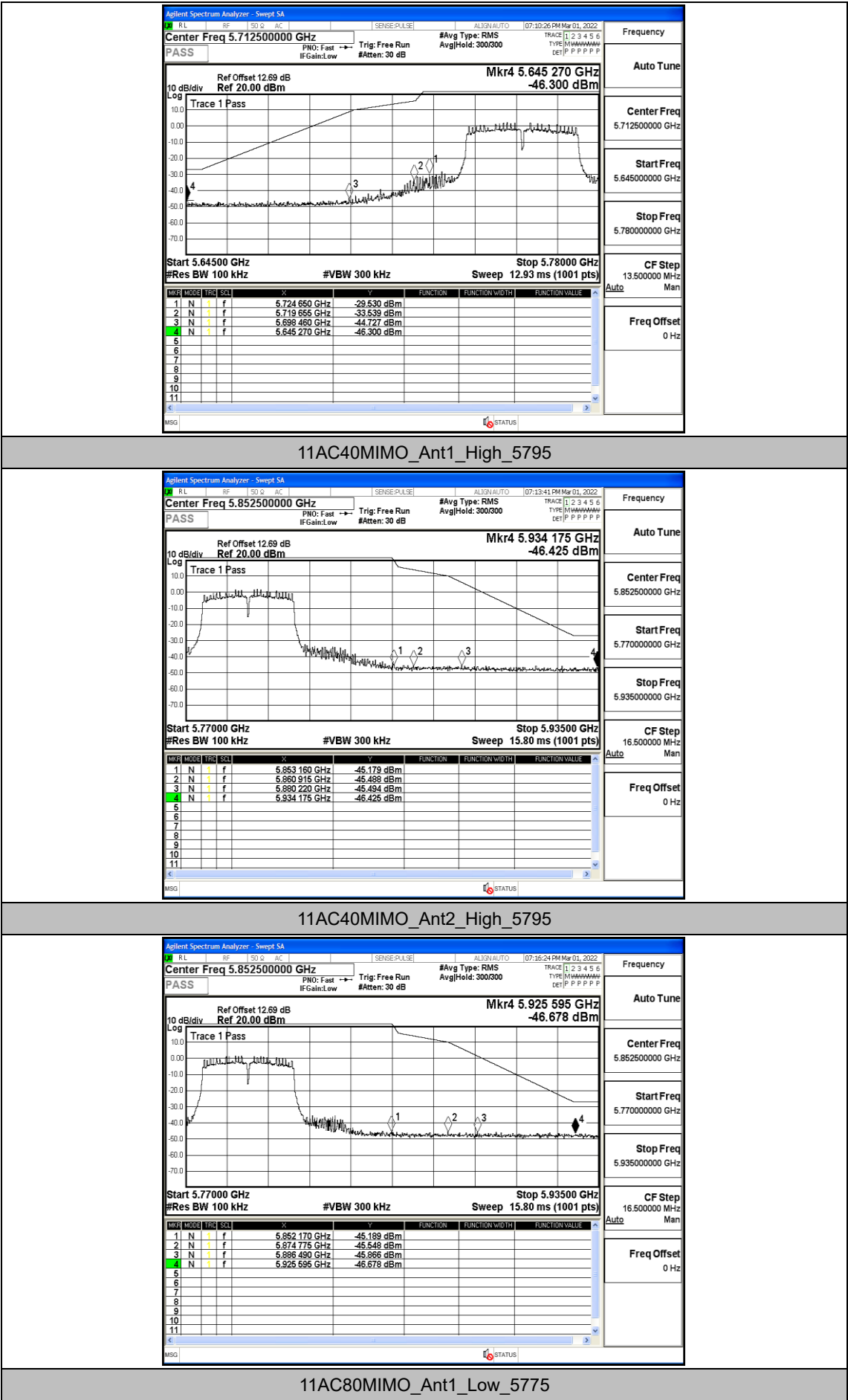
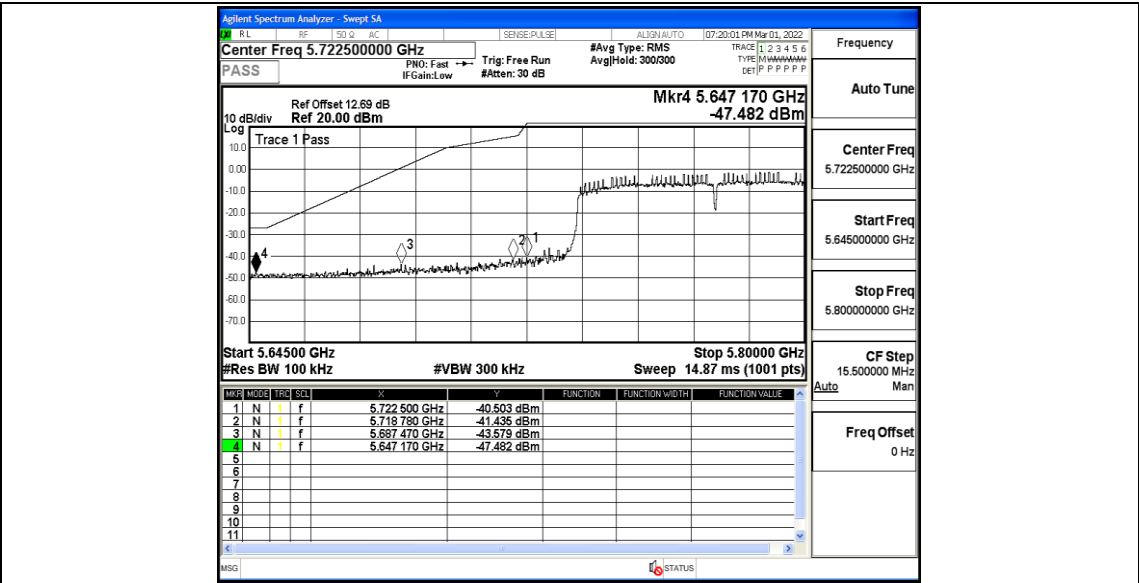




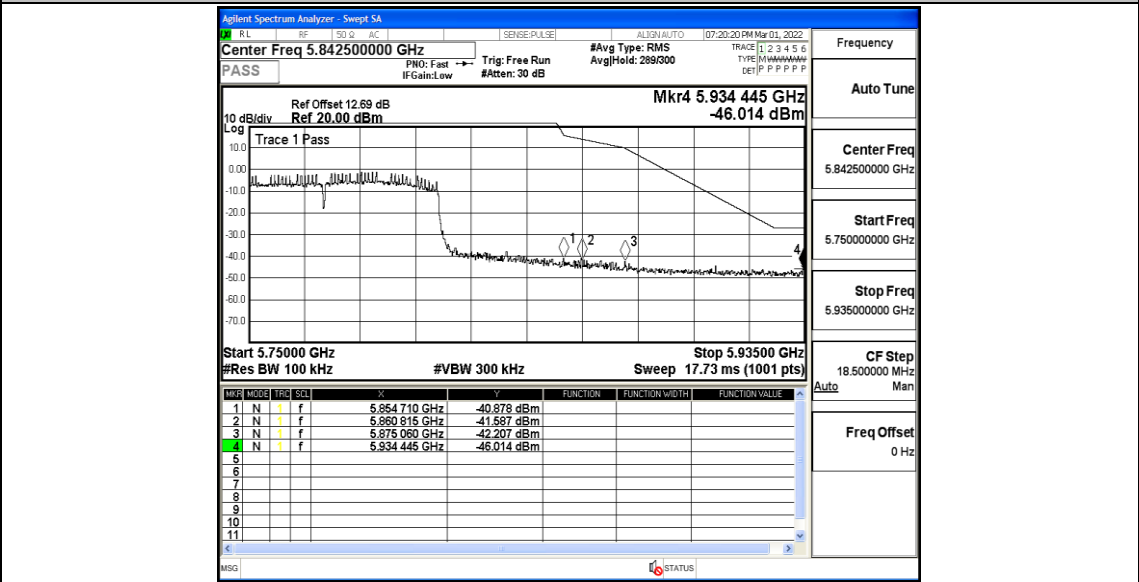




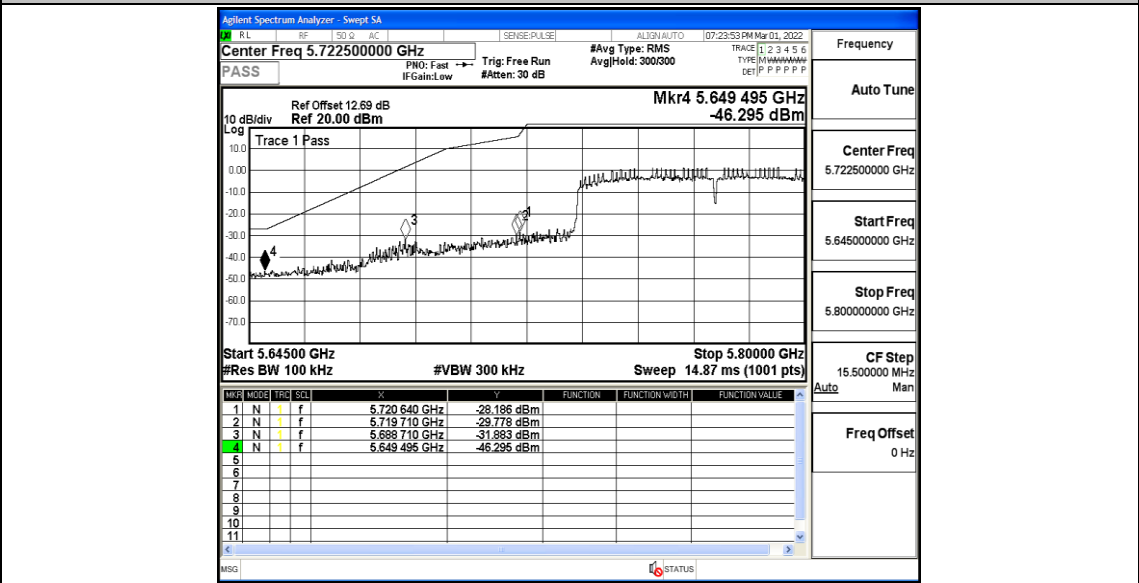




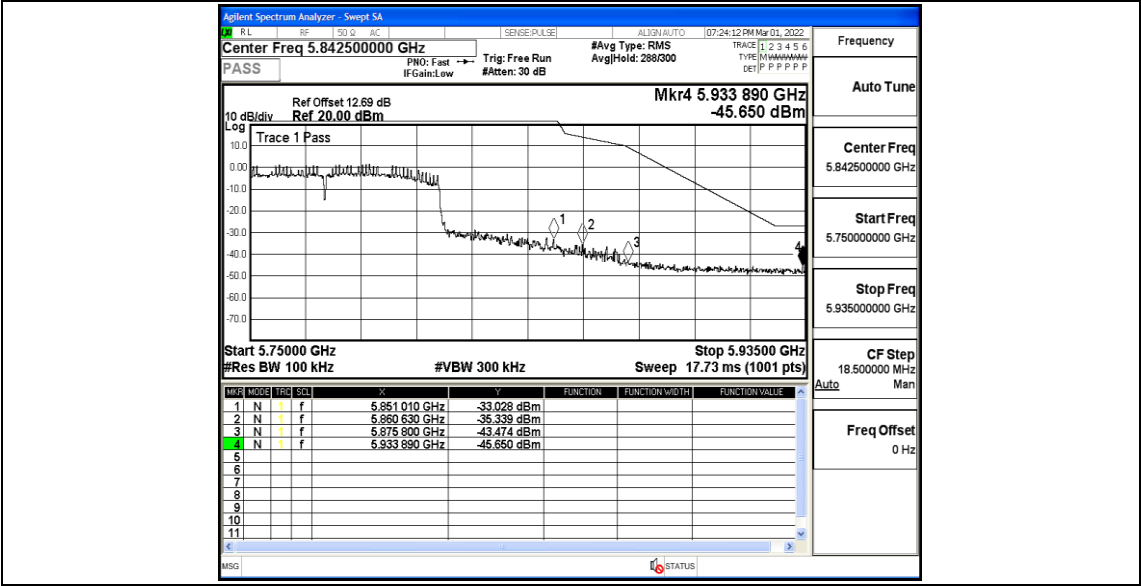
11AC80MIMO_Ant1_High_5775



11AC80MIMO_Ant2_Low_5775



11AC80MIMO_Ant2_High_5775



Appendix E: Frequency Stability

Test Result

Ant 1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5745.047687	5745 – 5825	PASS
5745	20	108	5744.903249	5745 – 5825	PASS
5745	50	120	5745.042876	5745 – 5825	PASS
5745	40	120	5745.012116	5745 – 5825	PASS
5745	30	120	5745.016938	5745 – 5825	PASS
5745	20	120	5745.091970	5745 – 5825	PASS
5745	10	120	5744.998529	5745 – 5825	PASS
5745	0	120	5744.953274	5745 – 5825	PASS
5745	-10	120	5745.028382	5745 – 5825	PASS
5745	-20	120	5745.079268	5745 – 5825	PASS
5745	-30	120	5744.925221	5745 – 5825	PASS

Ant 2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5744.926467	5745 – 5825	PASS
5745	20	108	5744.998522	5745 – 5825	PASS
5745	50	120	5745.068091	5745 – 5825	PASS
5745	40	120	5744.904222	5745 – 5825	PASS
5745	30	120	5745.060840	5745 – 5825	PASS
5745	20	120	5745.071320	5745 – 5825	PASS
5745	10	120	5745.019974	5745 – 5825	PASS
5745	0	120	5744.988659	5745 – 5825	PASS
5745	-10	120	5744.914919	5745 – 5825	PASS
5745	-20	120	5744.923398	5745 – 5825	PASS
5745	-30	120	5744.981914	5745 – 5825	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5784.937806	5745 – 5825	PASS
5785	20	108	5784.993498	5745 – 5825	PASS
5785	50	120	5785.093004	5745 – 5825	PASS
5785	40	120	5785.005129	5745 – 5825	PASS
5785	30	120	5785.026006	5745 – 5825	PASS
5785	20	120	5785.070474	5745 – 5825	PASS
5785	10	120	5785.027107	5745 – 5825	PASS
5785	0	120	5784.974753	5745 – 5825	PASS
5785	-10	120	5785.007391	5745 – 5825	PASS
5785	-20	120	5784.916539	5745 – 5825	PASS
5785	-30	120	5785.021451	5745 – 5825	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5785.060407	5745 – 5825	PASS
5785	20	108	5784.930228	5745 – 5825	PASS
5785	50	120	5785.085265	5745 – 5825	PASS
5785	40	120	5784.994033	5745 – 5825	PASS
5785	30	120	5785.091611	5745 – 5825	PASS
5785	20	120	5784.962061	5745 – 5825	PASS
5785	10	120	5784.923018	5745 – 5825	PASS
5785	0	120	5785.074576	5745 – 5825	PASS
5785	-10	120	5785.061890	5745 – 5825	PASS
5785	-20	120	5785.020612	5745 – 5825	PASS
5785	-30	120	5785.058160	5745 – 5825	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.947331	5745 – 5825	PASS
5825	20	108	5824.920137	5745 – 5825	PASS
5825	50	120	5824.919394	5745 – 5825	PASS
5825	40	120	5825.079924	5745 – 5825	PASS
5825	30	120	5824.959491	5745 – 5825	PASS
5825	20	120	5825.053827	5745 – 5825	PASS
5825	10	120	5824.937297	5745 – 5825	PASS
5825	0	120	5824.937911	5745 – 5825	PASS
5825	-10	120	5824.986209	5745 – 5825	PASS
5825	-20	120	5825.010903	5745 – 5825	PASS
5825	-30	120	5825.077202	5745 – 5825	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.958336	5745 – 5825	PASS
5825	20	108	5825.082054	5745 – 5825	PASS
5825	50	120	5825.043135	5745 – 5825	PASS
5825	40	120	5825.003747	5745 – 5825	PASS
5825	30	120	5825.043948	5745 – 5825	PASS
5825	20	120	5825.078249	5745 – 5825	PASS
5825	10	120	5824.976787	5745 – 5825	PASS
5825	0	120	5824.973846	5745 – 5825	PASS
5825	-10	120	5825.031434	5745 – 5825	PASS
5825	-20	120	5824.939412	5745 – 5825	PASS
5825	-30	120	5825.012357	5745 – 5825	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5755.079247	5745 – 5825	PASS
5755	20	108	5754.943020	5745 – 5825	PASS
5755	50	120	5754.988745	5745 – 5825	PASS
5755	40	120	5754.998627	5745 – 5825	PASS
5755	30	120	5755.092581	5745 – 5825	PASS
5755	20	120	5755.049800	5745 – 5825	PASS
5755	10	120	5755.001967	5745 – 5825	PASS
5755	0	120	5755.046631	5745 – 5825	PASS
5755	-10	120	5755.093690	5745 – 5825	PASS
5755	-20	120	5755.032261	5745 – 5825	PASS
5755	-30	120	5754.929764	5745 – 5825	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5754.965896	5745 – 5825	PASS
5755	20	108	5754.946752	5745 – 5825	PASS
5755	50	120	5755.059771	5745 – 5825	PASS
5755	40	120	5755.083281	5745 – 5825	PASS
5755	30	120	5755.022677	5745 – 5825	PASS
5755	20	120	5754.934737	5745 – 5825	PASS
5755	10	120	5755.068960	5745 – 5825	PASS
5755	0	120	5754.978158	5745 – 5825	PASS
5755	-10	120	5754.914434	5745 – 5825	PASS
5755	-20	120	5754.985515	5745 – 5825	PASS
5755	-30	120	5755.066951	5745 – 5825	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5794.983056	5745 – 5825	PASS
5795	20	108	5794.931452	5745 – 5825	PASS
5795	50	120	5794.955194	5745 – 5825	PASS
5795	40	120	5794.900897	5745 – 5825	PASS
5795	30	120	5794.912817	5745 – 5825	PASS
5795	20	120	5795.047917	5745 – 5825	PASS
5795	10	120	5795.046330	5745 – 5825	PASS
5795	0	120	5795.077900	5745 – 5825	PASS
5795	-10	120	5794.986094	5745 – 5825	PASS
5795	-20	120	5794.926486	5745 – 5825	PASS
5795	-30	120	5794.926357	5745 – 5825	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5795.075595	5745 – 5825	PASS
5795	20	108	5795.079184	5745 – 5825	PASS
5795	50	120	5795.013752	5745 – 5825	PASS
5795	40	120	5795.064696	5745 – 5825	PASS
5795	30	120	5794.900295	5745 – 5825	PASS
5795	20	120	5795.097884	5745 – 5825	PASS
5795	10	120	5794.966095	5745 – 5825	PASS
5795	0	120	5794.922075	5745 – 5825	PASS
5795	-10	120	5795.066754	5745 – 5825	PASS
5795	-20	120	5794.976747	5745 – 5825	PASS
5795	-30	120	5795.088981	5745 – 5825	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5775	20	132	5775.092828	5745 – 5825	PASS
5775	20	108	5774.928719	5745 – 5825	PASS
5775	50	120	5775.032863	5745 – 5825	PASS
5775	40	120	5774.943211	5745 – 5825	PASS
5775	30	120	5774.946281	5745 – 5825	PASS
5775	20	120	5774.955003	5745 – 5825	PASS
5775	10	120	5774.967197	5745 – 5825	PASS
5775	0	120	5774.950710	5745 – 5825	PASS
5775	-10	120	5774.909464	5745 – 5825	PASS
5775	-20	120	5774.900257	5745 – 5825	PASS
5775	-30	120	5774.957360	5745 – 5825	PASS

Ant 2

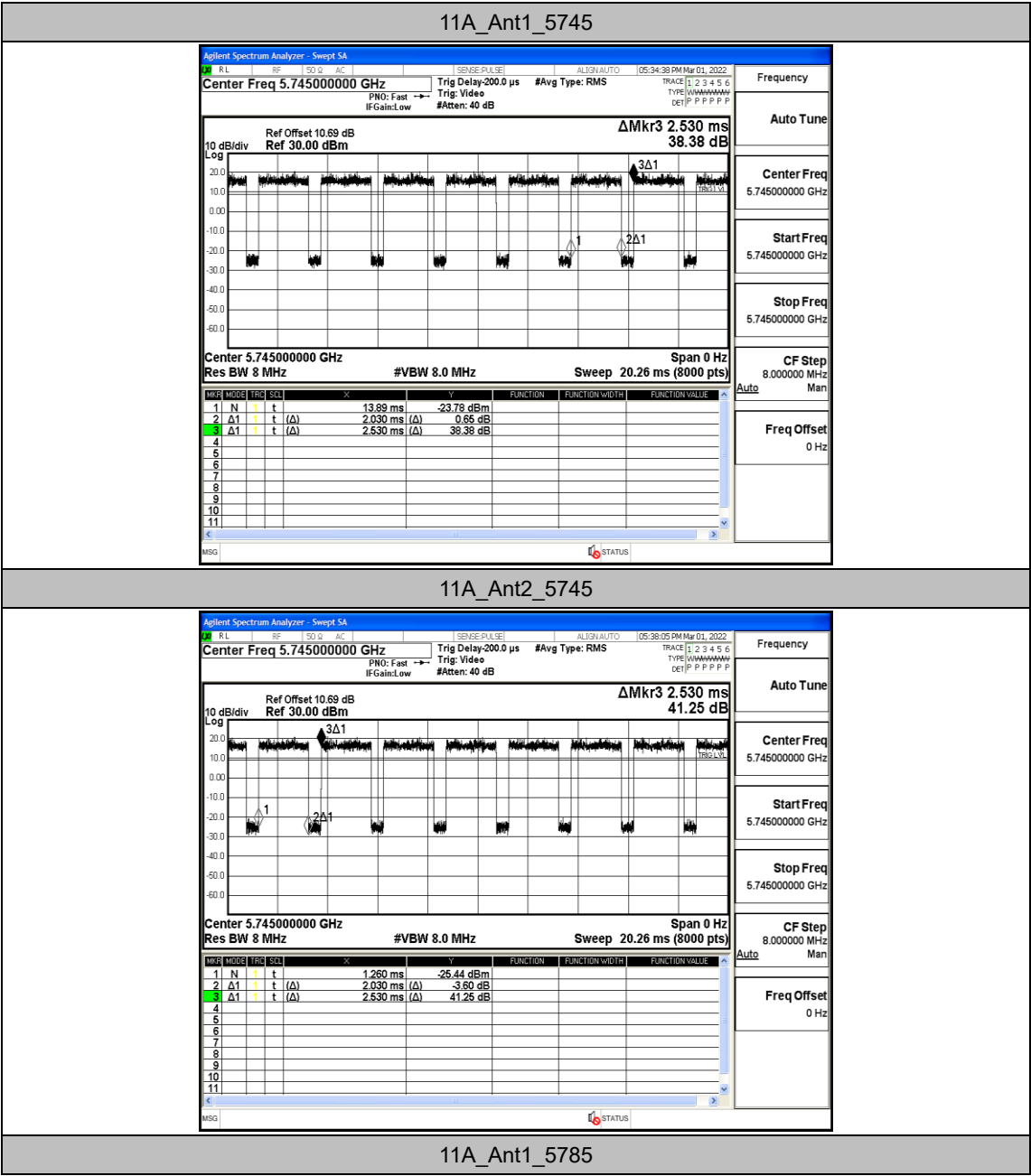
Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5775	20	132	5774.974703	5745 – 5825	PASS
5775	20	108	5775.077412	5745 – 5825	PASS
5775	50	120	5775.044634	5745 – 5825	PASS
5775	40	120	5775.041808	5745 – 5825	PASS
5775	30	120	5775.077231	5745 – 5825	PASS
5775	20	120	5774.902113	5745 – 5825	PASS
5775	10	120	5774.955977	5745 – 5825	PASS
5775	0	120	5775.054676	5745 – 5825	PASS
5775	-10	120	5774.975828	5745 – 5825	PASS
5775	-20	120	5774.937666	5745 – 5825	PASS
5775	-30	120	5775.084800	5745 – 5825	PASS

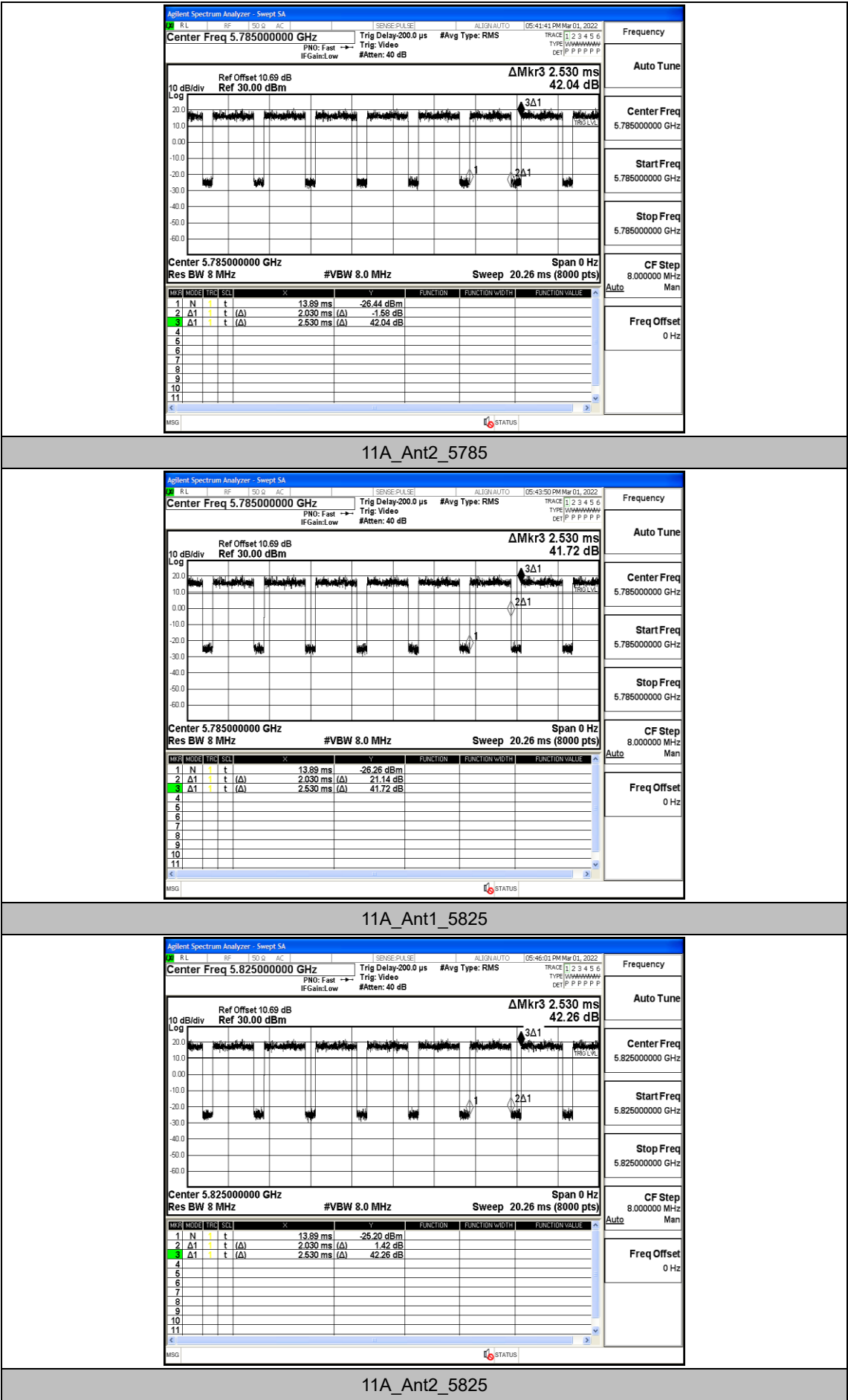
Appendix F: Duty Cycle

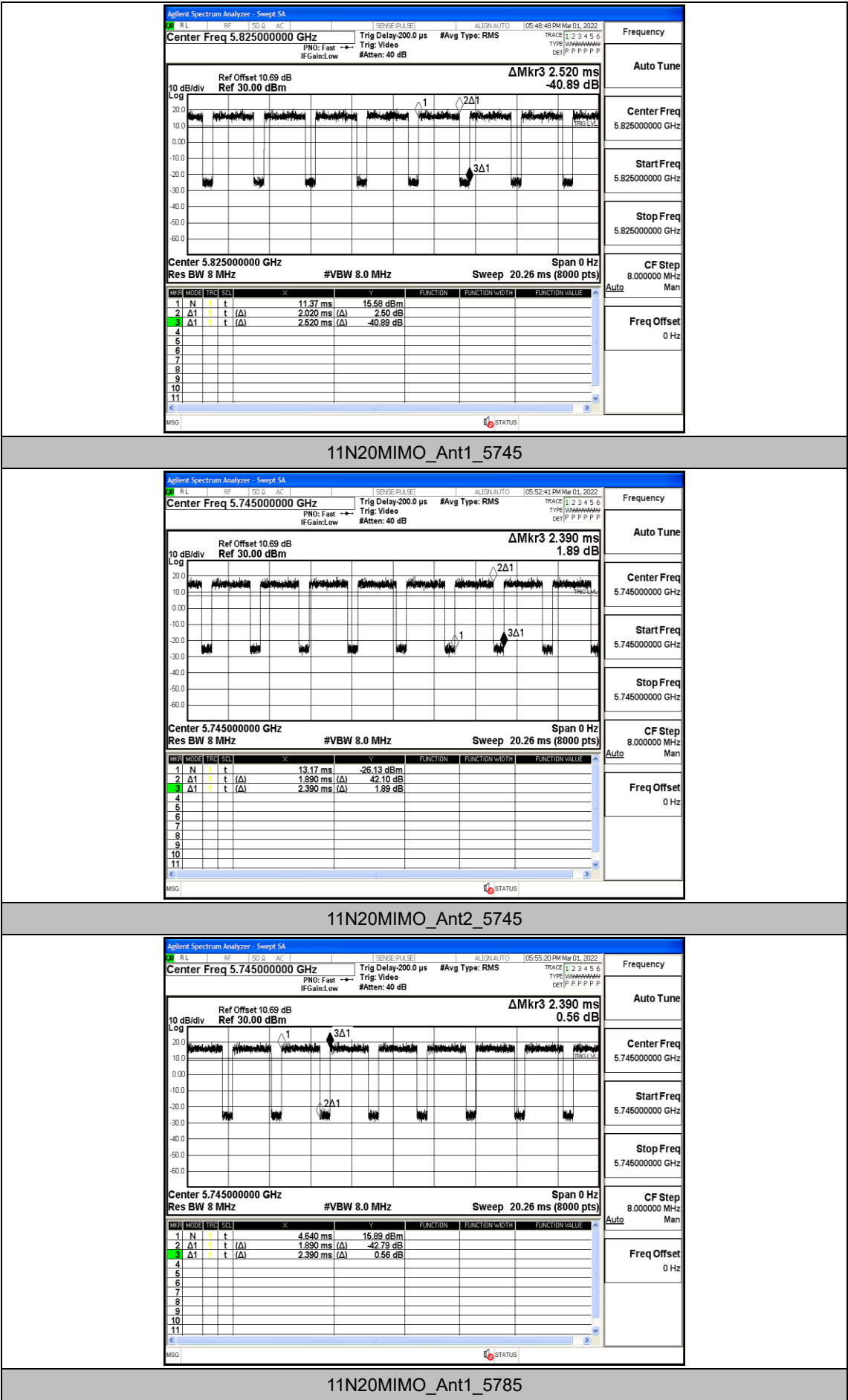
Test Result

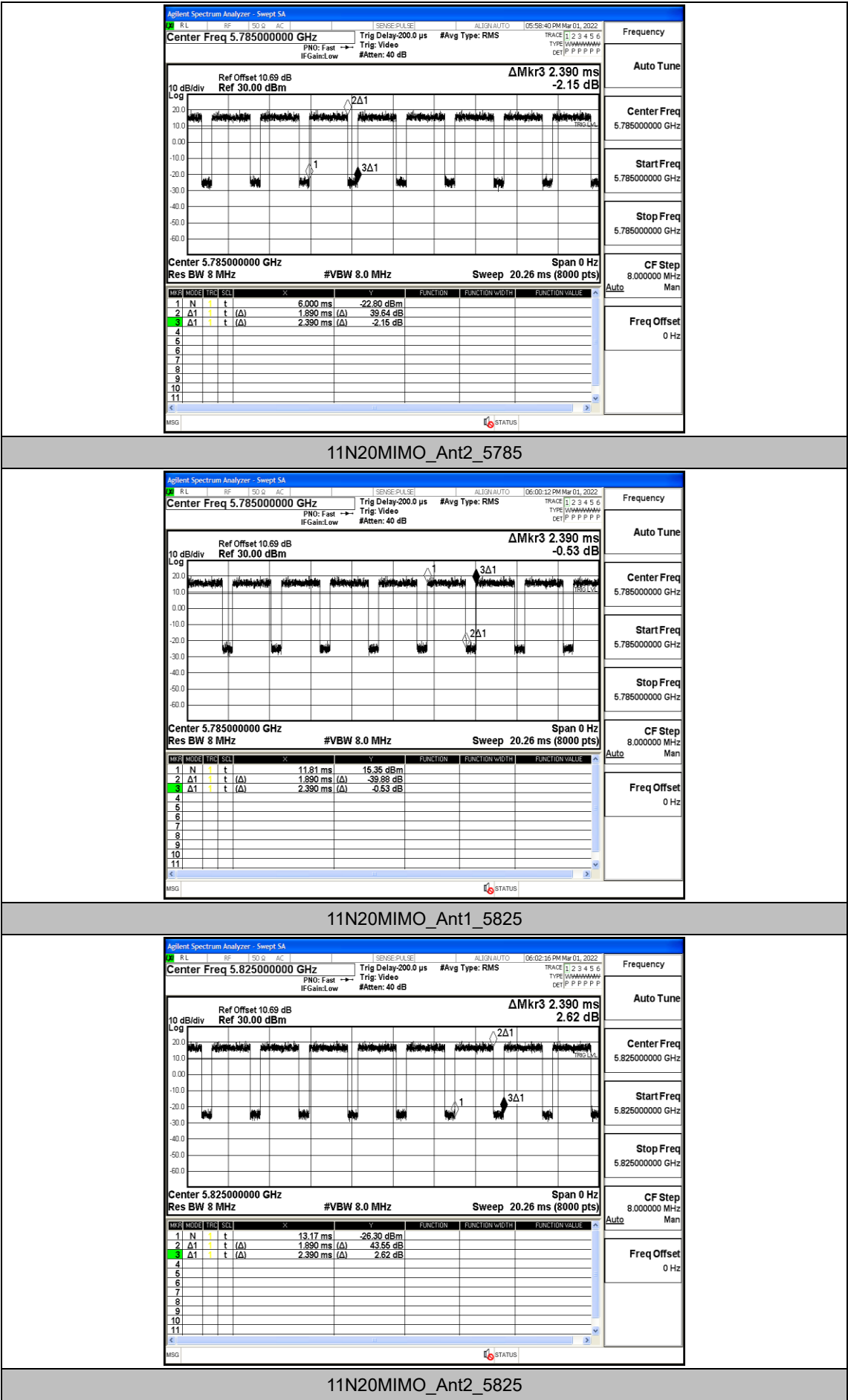
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B[KHz]
11A	Ant1	5745	2.03	2.53	80.24	0.4
	Ant2	5745	2.03	2.53	80.24	0.4
	Ant1	5785	2.03	2.53	80.24	0.4
	Ant2	5785	2.03	2.53	80.24	0.4
	Ant1	5825	2.03	2.53	80.24	0.4
	Ant2	5825	2.02	2.52	80.16	0.4
11N20MIMO	Ant1	5745	1.89	2.39	79.08	0.42
	Ant2	5745	1.89	2.39	79.08	0.42
	Ant1	5785	1.89	2.39	79.08	0.42
	Ant2	5785	1.89	2.39	79.08	0.42
	Ant1	5825	1.89	2.39	79.08	0.42
	Ant2	5825	1.88	2.38	78.99	0.42
11N40MIMO	Ant1	5755	0.93	1.43	65.03	0.7
	Ant2	5755	0.93	1.43	65.03	0.7
	Ant1	5795	0.92	1.42	64.79	0.7
	Ant2	5795	0.93	1.43	65.03	0.7
11AC20MIMO	Ant1	5745	1.89	2.40	78.75	0.42
	Ant2	5745	1.89	2.39	79.08	0.42
	Ant1	5785	1.89	2.39	79.08	0.42
	Ant2	5785	1.89	2.40	78.75	0.42
	Ant1	5825	1.89	2.40	78.75	0.42
	Ant2	5825	1.89	2.39	79.08	0.42
11AC40MIMO	Ant1	5755	0.93	1.44	64.58	0.69
	Ant2	5755	0.93	1.43	65.03	0.7
	Ant1	5795	0.93	1.43	65.03	0.7
	Ant2	5795	0.93	1.43	65.03	0.7
11AC80MIMO	Ant1	5775	0.45	0.95	47.37	1.05
	Ant2	5775	0.45	0.95	47.37	1.05

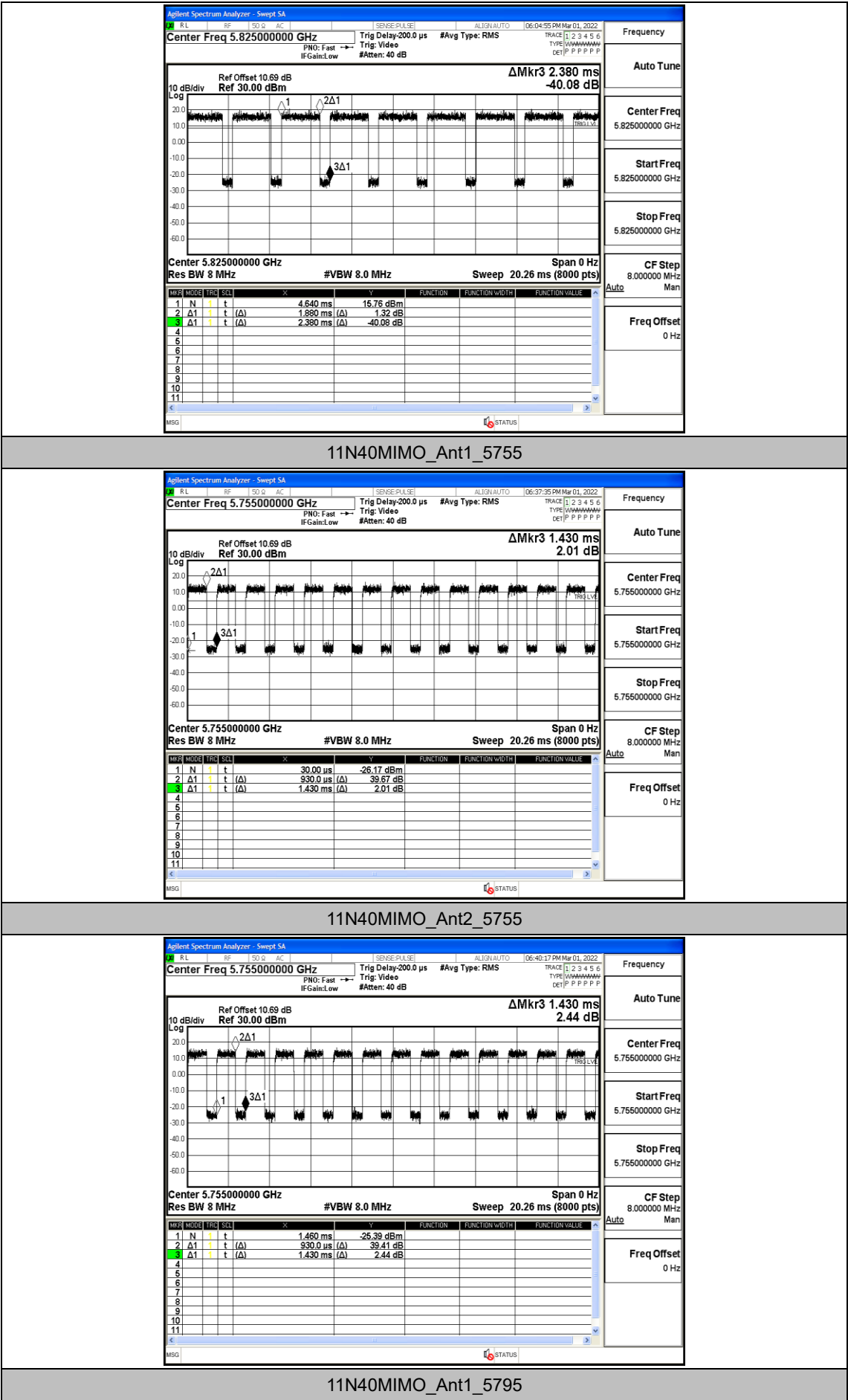
Test Graphs











Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.755000000 GHz

Ref Offset 10.69 dB

Ref 30.00 dBm

10 dB/div

Log

20.0

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

1

2

3

4

5

6

7

8

9

10

11

MSG

STATUS

Trig Delay: 200.0 μ s

#Avg Type: RMS

Trig: Video

#Atten: 40 dB

Align: AUTO

06:37:25 PM Mar 01, 2022

TRACE 1 2 3 4 5 6

TYPE: WWWWMMMM

DET: P P P P P P

Auto Tune

Center Freq 5.755000000 GHz

Start Freq 5.755000000 GHz

Stop Freq 5.755000000 GHz

CF Step 8.0000000 MHz

Man

Freq Offset 0 Hz

Span 0 Hz

Sweep 20.26 ms (8000 pts)

#VBW 8.0 MHz

Res BW 8 MHz

1 N 30.00 μ s -26.17 dBm

2 Δ 1 930.0 μ s (A) 39.67 dB

3 Δ 1 1.430 ms (A) 2.01 dB

4

5

6

7

8

9

10

11

11N40MIMO_Ant2_5755

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.755000000 GHz

Ref Offset 10.69 dB

Ref 30.00 dBm

10 dB/div

Log

20.0

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

1

2

3

4

5

6

7

8

9

10

11

MSG

STATUS

Trig Delay: 200.0 μ s

#Avg Type: RMS

Trig: Video

#Atten: 40 dB

Align: AUTO

06:40:17 PM Mar 01, 2022

TRACE 1 2 3 4 5 6

TYPE: WWWWMMMM

DET: P P P P P P

Auto Tune

Center Freq 5.755000000 GHz

Start Freq 5.755000000 GHz

Stop Freq 5.755000000 GHz

CF Step 8.0000000 MHz

Man

Freq Offset 0 Hz

Span 0 Hz

Sweep 20.26 ms (8000 pts)

#VBW 8.0 MHz

Res BW 8 MHz

1 N 1.460 ms -25.39 dBm

2 Δ 1 930.0 μ s (A) 39.41 dB

3 Δ 1 1.430 ms (A) 2.44 dB

4

5

6

7

8

9

10

11

11N40MIMO_Ant1_5795

