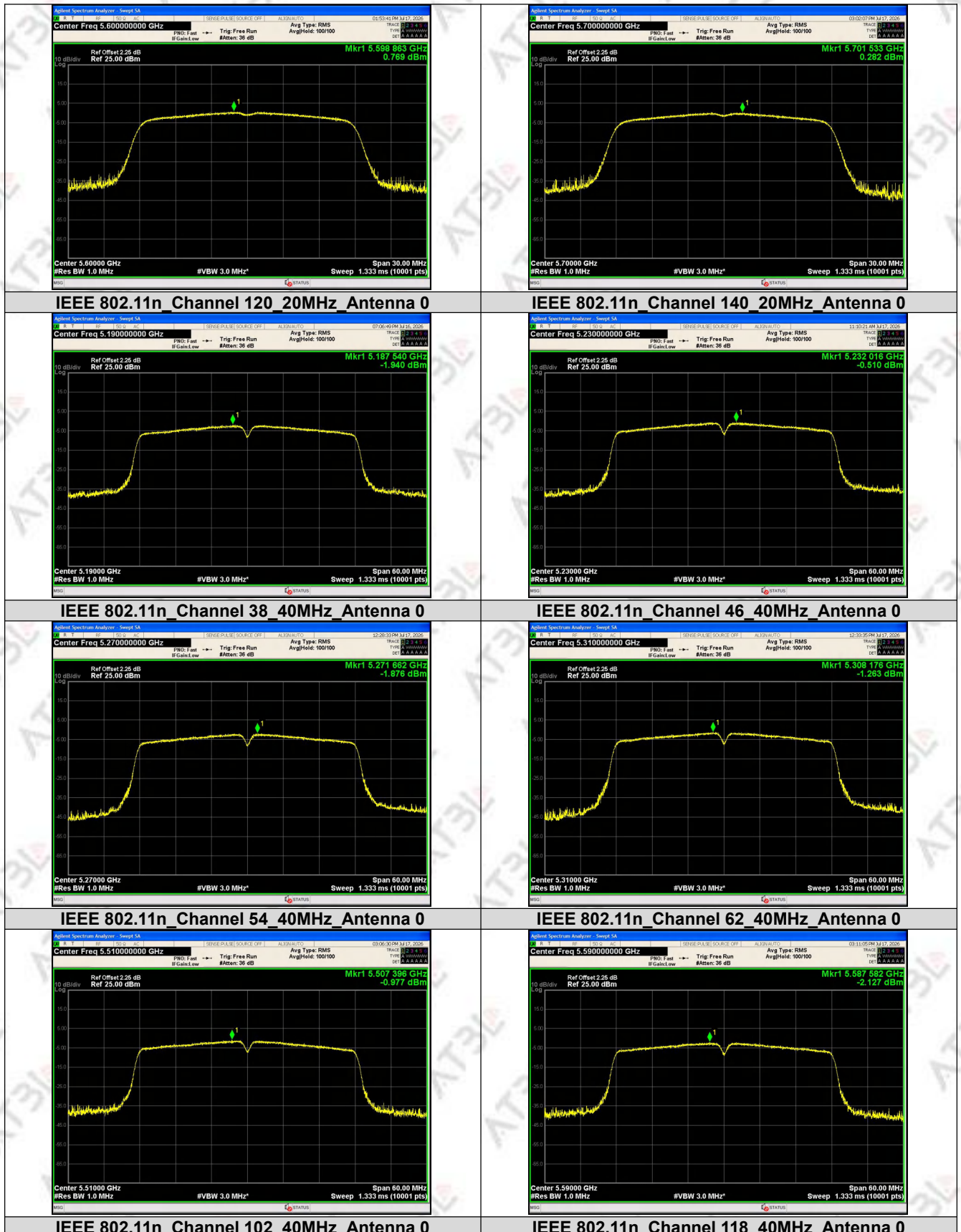
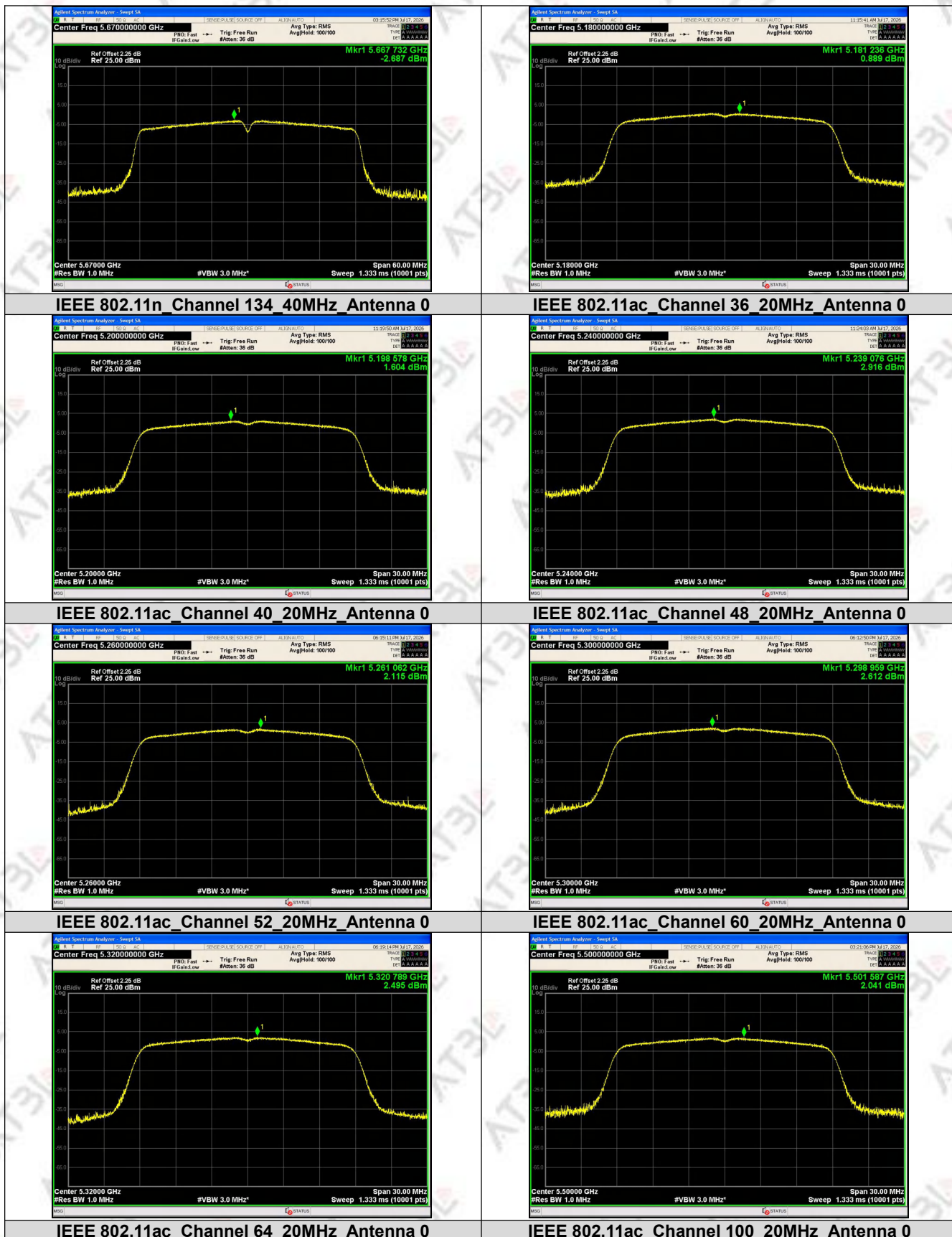
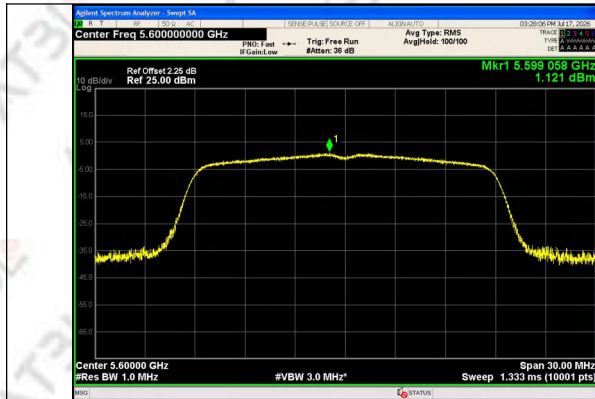
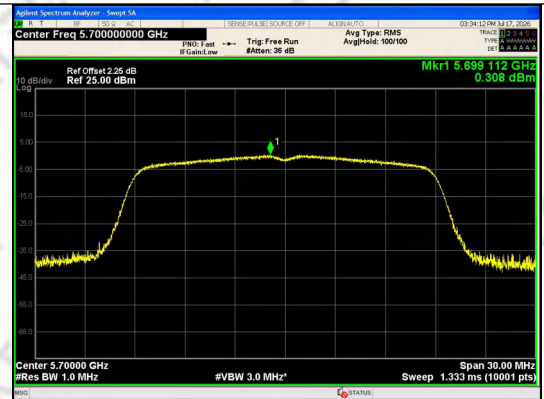




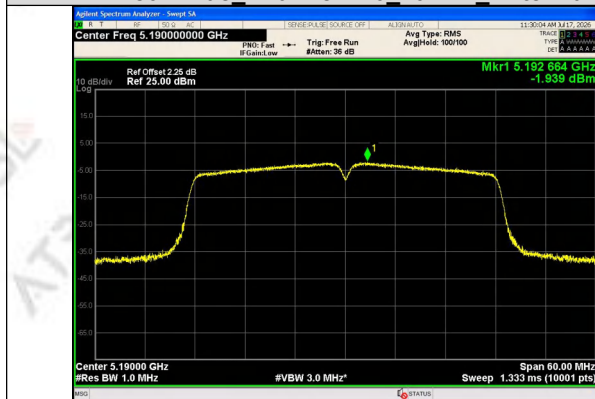




IEEE 802.11ac_Channel 120_20MHz_Antenna 0



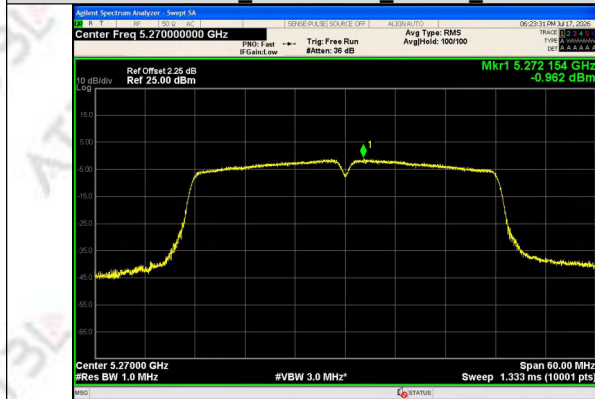
IEEE 802.11ac_Channel 140_20MHz_Antenna 0



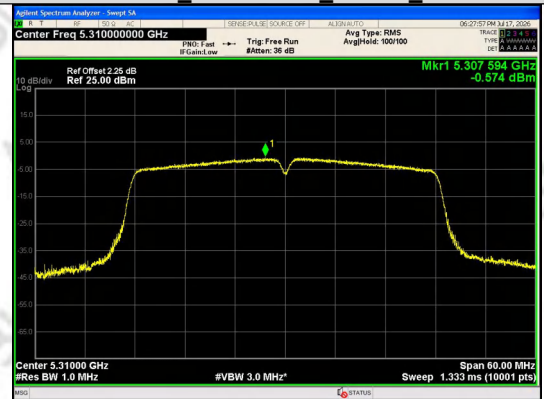
IEEE 802.11ac_Channel 38_40MHz_Antenna 0



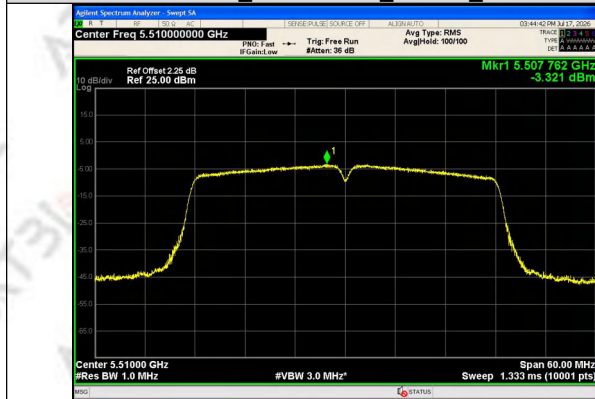
IEEE 802.11ac_Channel 46_40MHz_Antenna 0



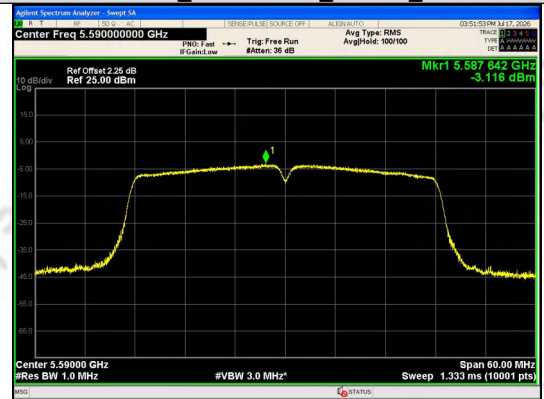
IEEE 802.11ac_Channel 54_40MHz_Antenna 0



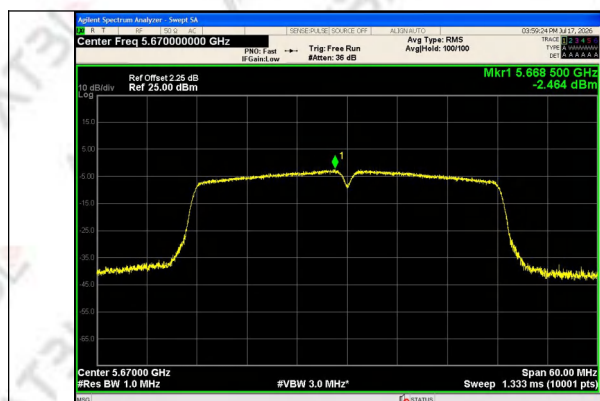
IEEE 802.11ac_Channel 62_40MHz_Antenna 0



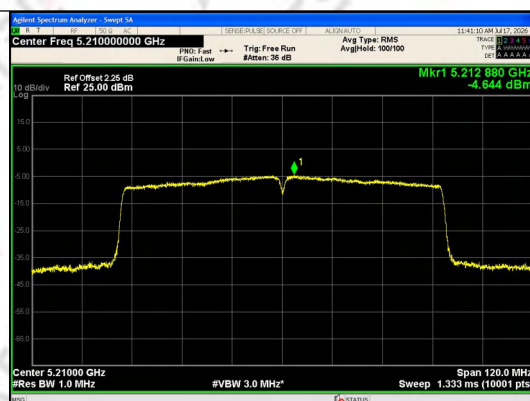
IEEE 802.11ac_Channel 102_40MHz_Antenna 0



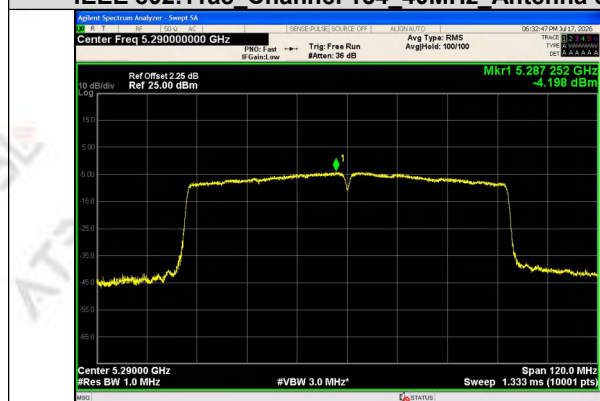
IEEE 802.11ac_Channel 118_40MHz_Antenna 0



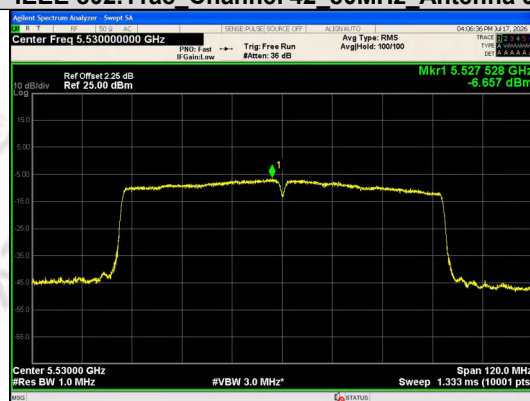
IEEE 802.11ac_Channel 134_40MHz_Antenna 0



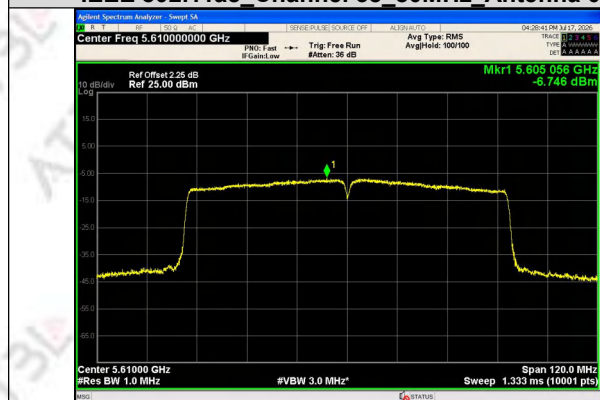
IEEE 802.11ac_Channel 42_80MHz_Antenna 0



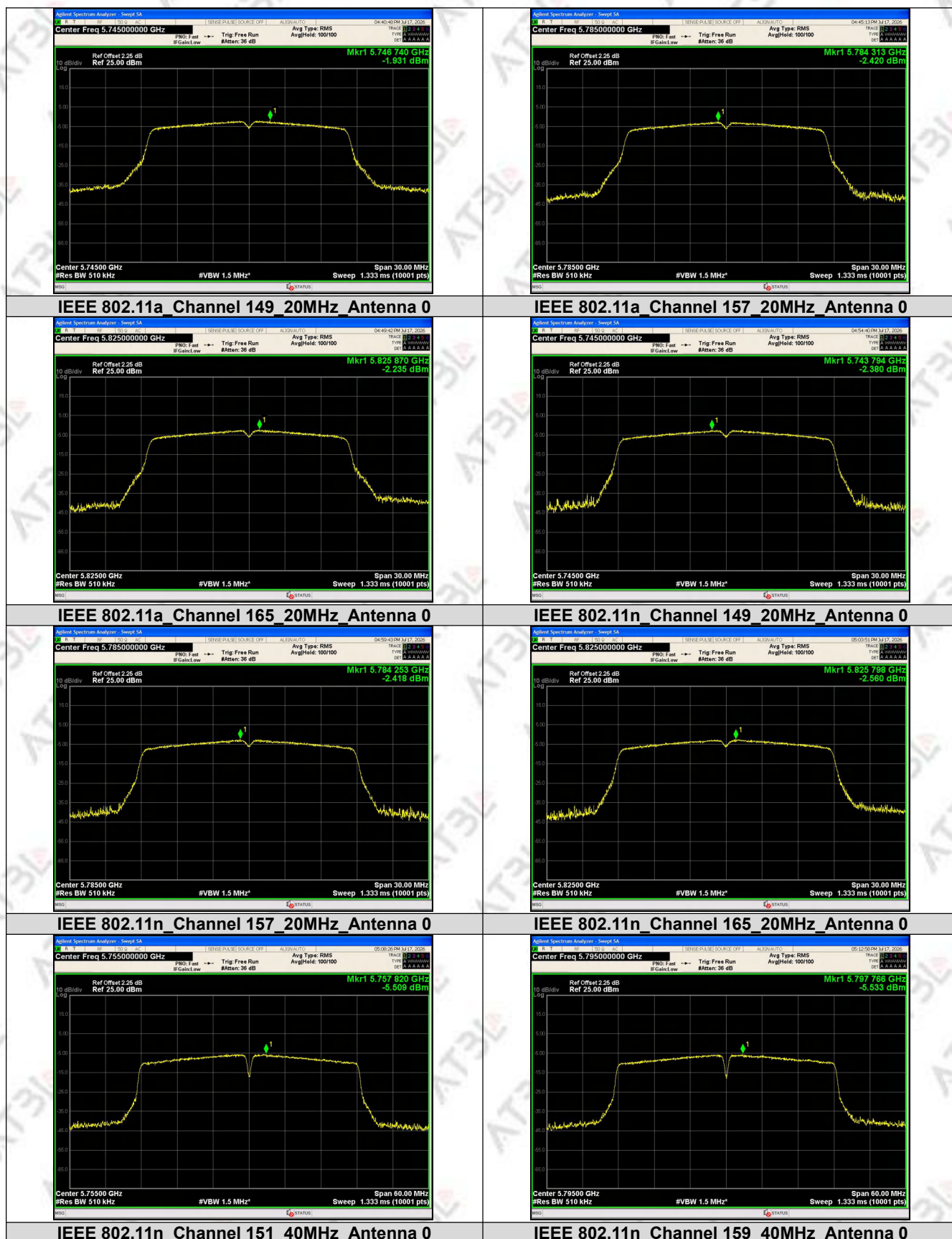
IEEE 802.11ac_Channel 58_80MHz_Antenna 0

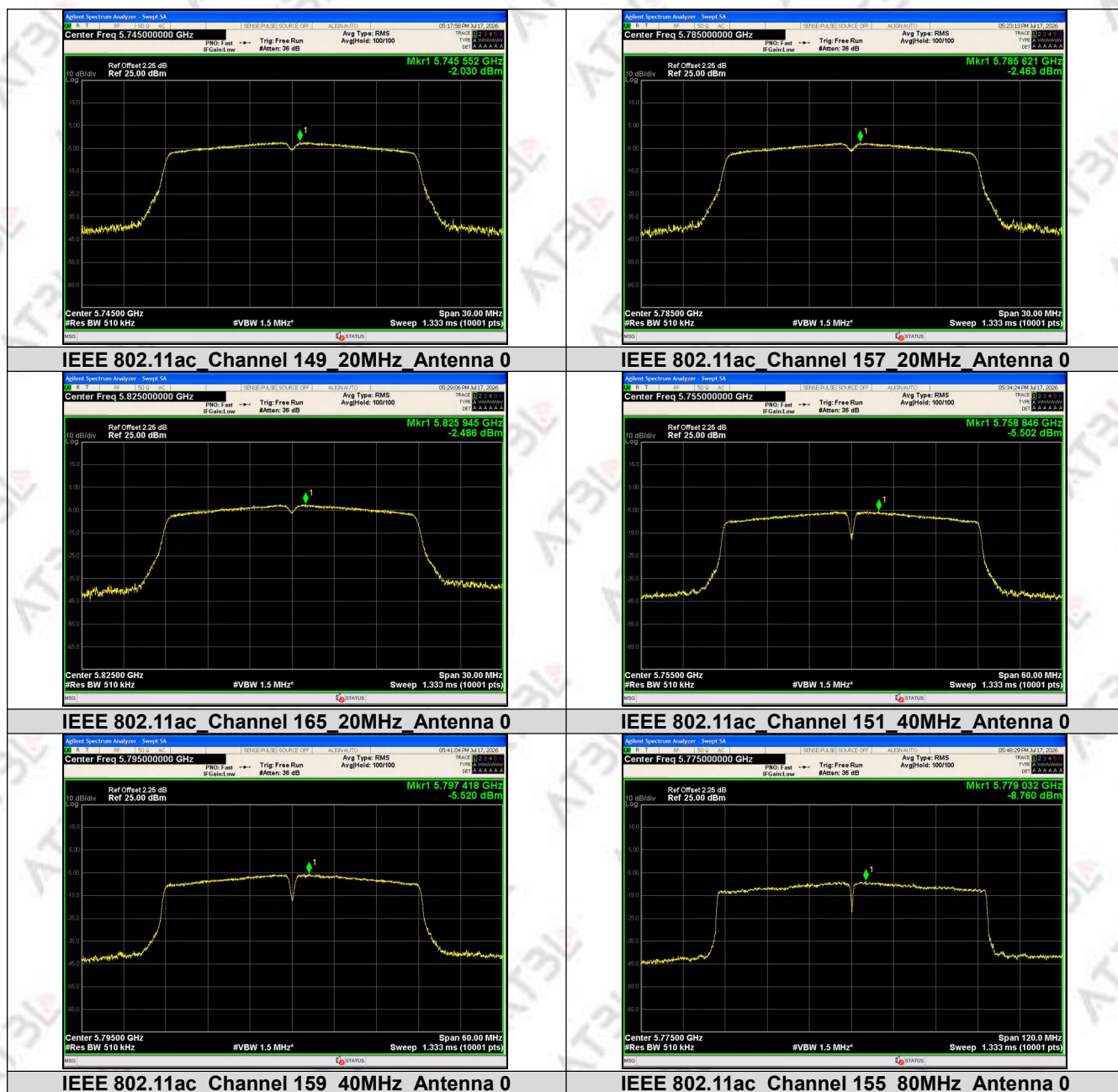


IEEE 802.11ac_Channel 106_80MHz_Antenna 0



IEEE 802.11ac_Channel 122_80MHz_Antenna 0





A5.Frequency Stability

Test Result

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	7.6V	5180.059	11.48	5180.058	11.21	5180.056	10.76	5180.053	10.31
40	7.6V	5180.059	11.33	5180.054	10.42	5180.058	11.11	5180.057	11.03
30	7.6V	5180.051	9.84	5180.051	9.89	5180.052	10.12	5180.054	10.39
20	7.6V	5180.052	10.01	5180.058	11.29	5180.058	11.27	5180.058	11.28
10	7.6V	5180.056	10.86	5180.058	11.27	5180.059	11.41	5180.051	9.83
0	7.6V	5180.057	11.10	5180.055	10.54	5180.057	10.95	5180.060	11.52
-10	7.6V	5180.052	9.94	5180.056	10.85	5180.051	9.88	5180.052	10.07
-20	7.6V	5180.058	11.15	5180.051	9.94	5180.058	11.20	5180.053	10.20
-30	7.6V	5180.059	11.46	5180.053	10.26	5180.058	11.19	5180.058	11.21

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	8.74V	5180.059	11.35	5180.060	11.54	5180.050	9.73	5180.059	11.39
	7.6V	5180.054	10.42	5180.056	10.88	5180.050	9.74	5180.052	9.98
	6.46V	5180.053	10.21	5180.059	11.43	5180.052	10.11	5180.058	11.28

Frequency Stability Versus Temp.									
Operating Frequency: 5320MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	7.6V	5320.064	11.98	5320.066	11.98	5320.063	11.81	5320.060	11.29
40	7.6V	5320.061	11.40	5320.068	11.40	5320.061	11.47	5320.061	11.50
30	7.6V	5320.065	12.25	5320.066	12.25	5320.066	12.45	5320.067	12.67
20	7.6V	5320.066	12.44	5320.067	12.44	5320.061	11.43	5320.068	12.85
10	7.6V	5320.068	12.75	5320.060	12.75	5320.068	12.77	5320.062	11.62
0	7.6V	5320.068	12.76	5320.068	12.76	5320.068	12.74	5320.061	11.38
-10	7.6V	5320.069	13.02	5320.064	13.02	5320.062	11.74	5320.069	12.91
-20	7.6V	5320.070	13.11	5320.064	13.11	5320.064	12.12	5320.060	11.31
-30	7.6V	5320.068	12.79	5320.061	12.79	5320.069	12.88	5320.067	12.54

Frequency Stability Versus Temp.									
Operating Frequency: 5320MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	8.74V	5320.066	12.33	5320.068	12.33	5320.069	12.97	5320.062	11.74
	7.6V	5320.060	11.32	5320.069	11.32	5320.064	12.02	5320.064	12.00
	6.46V	5320.068	12.80	5320.065	12.80	5320.065	12.18	5320.066	12.36

Frequency Stability Versus Temp.									
Operating Frequency: 5290MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	7.6V	5290.048	9.00	5290.049	9.00	5290.046	8.73	5290.042	7.98
40	7.6V	5290.047	8.93	5290.040	8.93	5290.047	8.96	5290.043	8.18
30	7.6V	5290.043	8.14	5290.041	8.14	5290.050	9.41	5290.043	8.11
20	7.6V	5290.043	8.19	5290.048	8.19	5290.043	8.16	5290.046	8.78
10	7.6V	5290.044	8.32	5290.049	8.32	5290.044	8.33	5290.049	9.35
0	7.6V	5290.045	8.41	5290.049	8.41	5290.042	8.02	5290.048	9.01
-10	7.6V	5290.048	9.13	5290.046	9.13	5290.046	8.65	5290.044	8.29
-20	7.6V	5290.046	8.75	5290.043	8.75	5290.046	8.76	5290.041	7.74
-30	7.6V	5290.046	8.74	5290.044	8.74	5290.048	9.15	5290.044	8.33

Frequency Stability Versus Temp.									
Operating Frequency: 5290MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	8.74V	5290.041	7.82	5290.047	7.82	5290.045	8.45	5290.048	9.00
	7.6V	5290.045	8.54	5290.046	8.54	5290.044	8.26	5290.045	8.49
	6.46V	5290.044	8.38	5290.040	8.38	5290.048	9.07	5290.040	7.60

Frequency Stability Versus Temp.									
Operating Frequency: 5510MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	7.6V	5510.059	10.76	5510.059	10.76	5510.052	9.40	5510.055	10.00
40	7.6V	5510.059	10.64	5510.051	10.64	5510.057	10.27	5510.057	10.27
30	7.6V	5510.057	10.37	5510.056	10.37	5510.059	10.63	5510.057	10.37
20	7.6V	5510.050	9.13	5510.053	9.13	5510.058	10.49	5510.060	10.87
10	7.6V	5510.058	10.54	5510.051	10.54	5510.051	9.19	5510.057	10.31
0	7.6V	5510.050	9.09	5510.055	9.09	5510.050	9.09	5510.059	10.64
-10	7.6V	5510.056	10.17	5510.051	10.17	5510.050	9.09	5510.051	9.24
-20	7.6V	5510.059	10.75	5510.056	10.75	5510.055	10.01	5510.058	10.46
-30	7.6V	5510.058	10.58	5510.053	10.58	5510.052	9.43	5510.050	9.08

Frequency Stability Versus Temp.									
Operating Frequency: 5510MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	8.74V	5510.053	9.53	5510.052	9.53	5510.055	9.98	5510.056	10.07
	7.6V	5510.059	10.65	5510.057	10.65	5510.052	9.37	5510.052	9.41
	6.46V	5510.055	9.97	5510.056	9.97	5510.054	9.72	5510.055	10.02

Frequency Stability Versus Temp.									
Operating Frequency: 5825MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	7.6V	5825.051	8.71	5825.055	8.71	5825.057	9.70	5825.058	10.00
40	7.6V	5825.052	8.88	5825.052	8.88	5825.055	9.51	5825.059	10.12
30	7.6V	5825.054	9.34	5825.053	9.34	5825.055	9.38	5825.059	10.09
20	7.6V	5825.051	8.82	5825.051	8.82	5825.058	10.04	5825.052	8.88
10	7.6V	5825.053	9.10	5825.055	9.10	5825.050	8.66	5825.054	9.24
0	7.6V	5825.059	10.07	5825.052	10.07	5825.051	8.82	5825.053	9.05
-10	7.6V	5825.051	8.80	5825.057	8.80	5825.053	9.17	5825.053	9.04
-20	7.6V	5825.057	9.76	5825.057	9.76	5825.059	10.21	5825.058	10.02
-30	7.6V	5825.054	9.29	5825.056	9.29	5825.059	10.12	5825.054	9.19

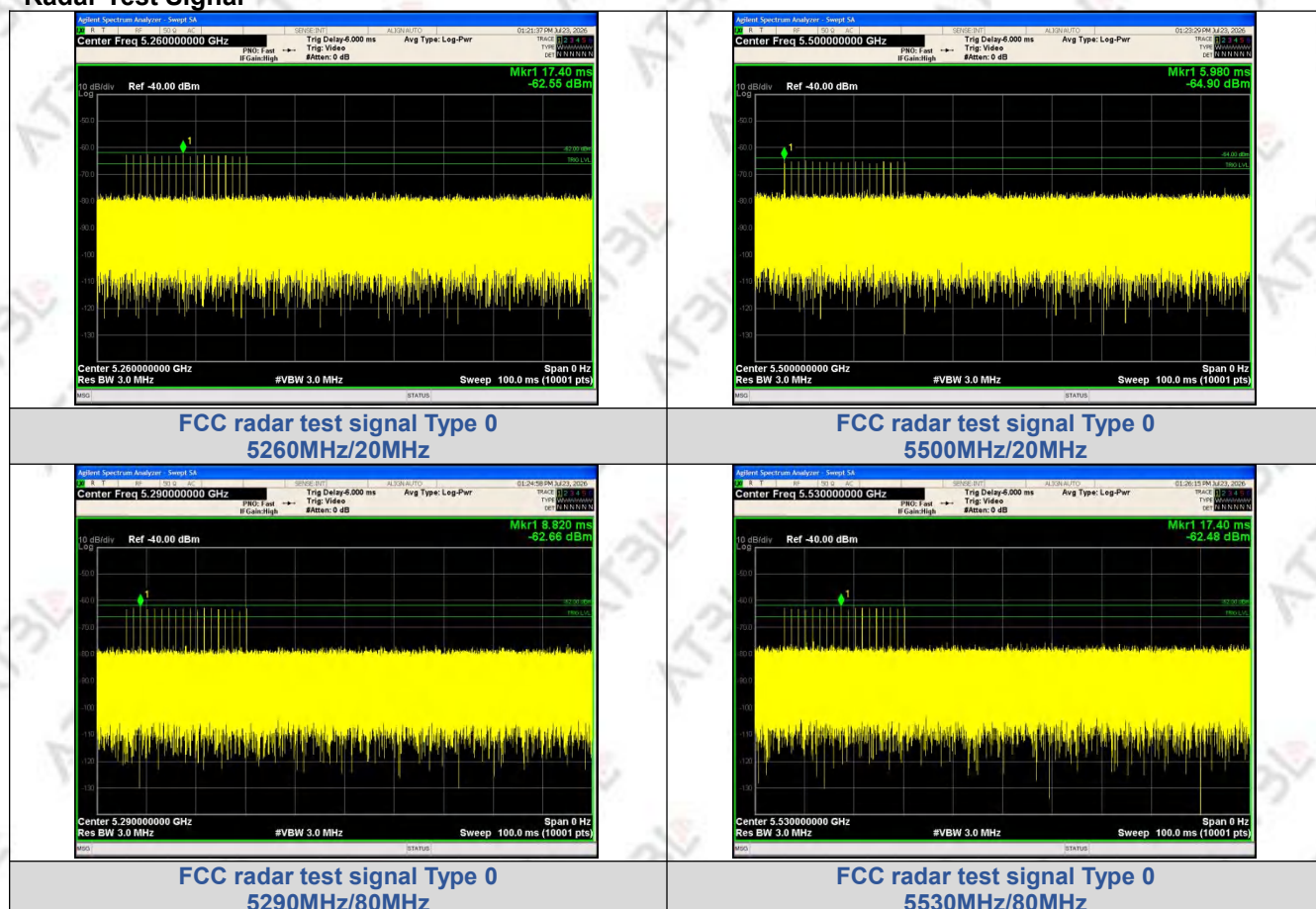
Frequency Stability Versus Temp.									
Operating Frequency: 5825MHz									
Temp (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	8.74V	5825.055	9.42	5825.050	9.42	5825.060	10.27	5825.057	9.77
	7.6V	5825.054	9.30	5825.056	9.30	5825.052	9.00	5825.050	8.64
	6.46V	5825.050	8.64	5825.060	8.64	5825.052	8.93	5825.059	10.09

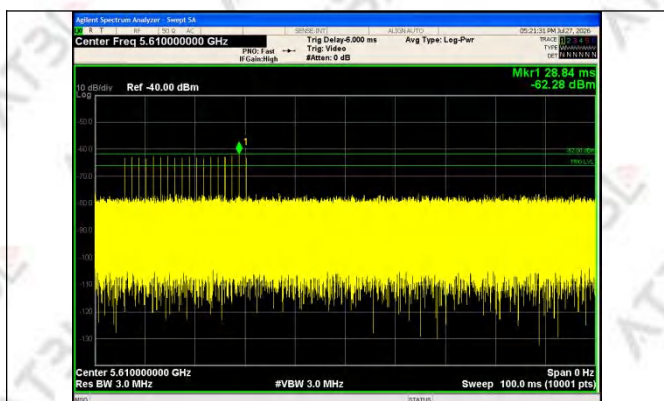
A6.Dynamic Frequency Selection Calibration of Radar Waveform

Test Result

Channel/Frequency	Bandwidth	Radar Type	Level (dBm)	Limit (dBm)	Verdict
52/5260MHz	20	FCC radar test signal Type 0	-62.55	-62	PASS
100/5500MHz		FCC radar test signal Type 0	-64.9	-64	PASS
58/5290MHz	80	FCC radar test signal Type 0	-62.66	-62	PASS
106/5530MHz		FCC radar test signal Type 0	-62.48	-62	PASS
122/5610MHz		FCC radar test signal Type 0	-62.28	-62	PASS

Radar Test Signal





FCC radar test signal Type 0
 5610MHz/80MHz

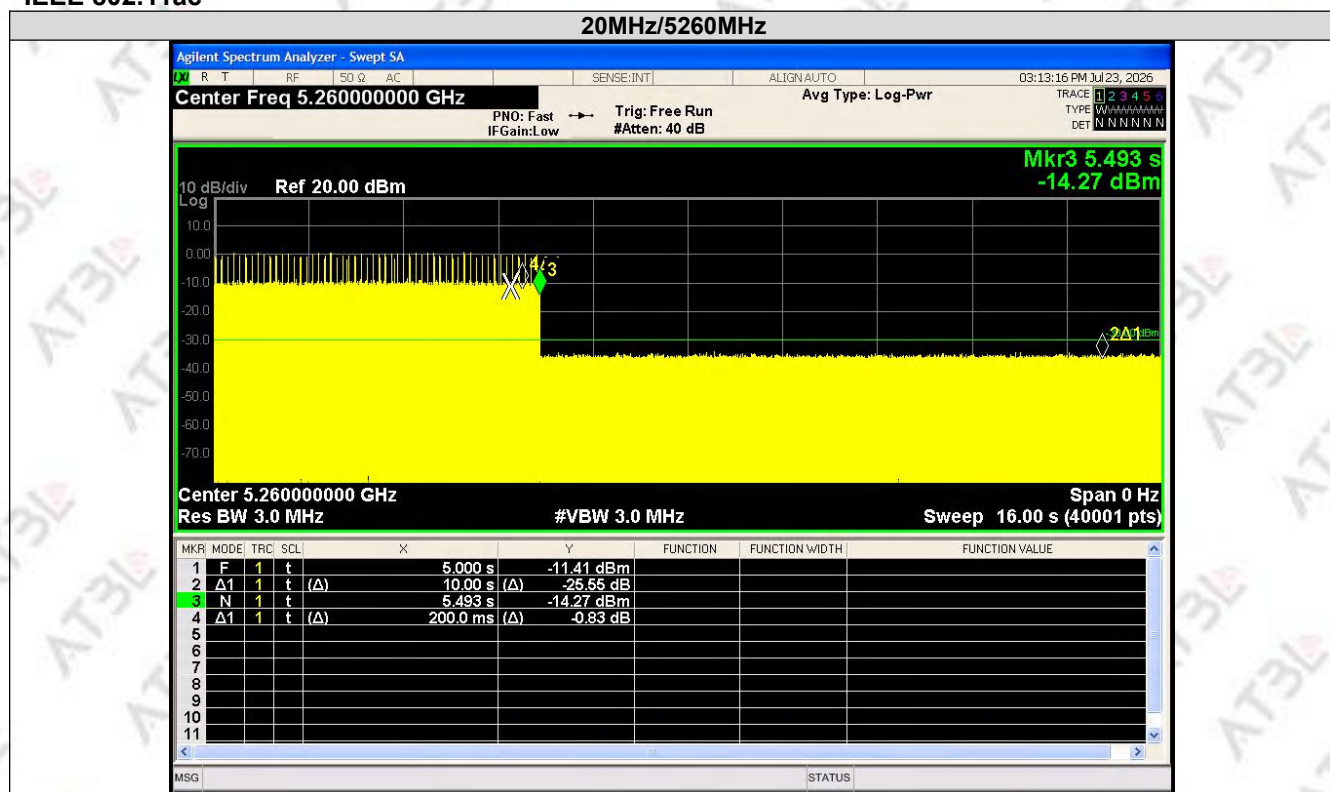
Channel Shutdown

Test Result of Channel Shutdown IEEE 802.11ac

BW/Frequency	Test Item	Test Result(ms)	Limit(ms)	Verdict
20MHz/5260MHz	Channel Move Time	0.49	10	PASS
	Channel Closing Transmission Time	83.2	<200+60ms	PASS
20MHz/5500MHz	Channel Move Time	0.34	10	PASS
	Channel Closing Transmission Time	38.8	<200+60ms	PASS
80MHz/5290MHz	Channel Move Time	0.54	10	PASS
	Channel Closing Transmission Time	101.2	<200+60ms	PASS
80MHz/5530MHz	Channel Move Time	0.38	10	PASS
	Channel Closing Transmission Time	49.2	<200+60ms	PASS
80MHz/5610MHz	Channel Move Time	0.61	10	PASS
	Channel Closing Transmission Time	5.2	<200+60ms	PASS

Test Plots of Channel Shutdown

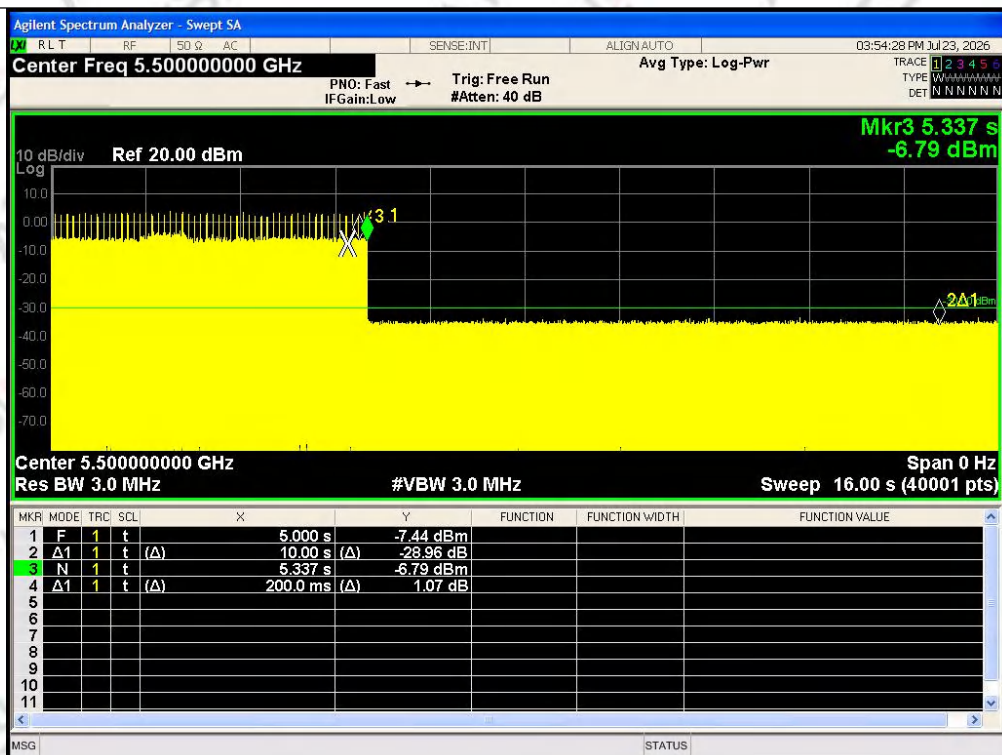
IEEE 802.11ac



Note:

- 1) Mark1 Time: 5000ms, Mark2 Time: 15000ms, On time Points: 208
- 2) Dwell = Sweep Time/Sweep Points = 0.4ms, C = N x Dwell = 208 x 0.4 = 83.2 ms

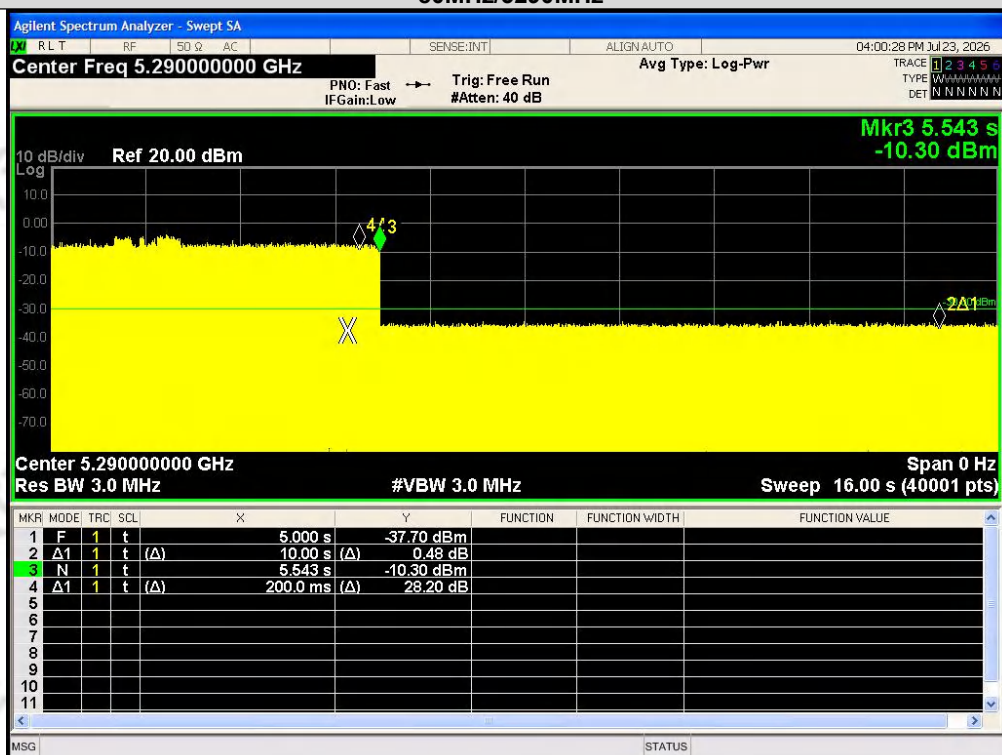
20MHz/5500MHz



Note:

- 1) Mark1 Time: 5000ms, Mark2 Time:15000ms, On time Points:97
- 2) Dwell = Sweep Time/Sweep Points = 0.4ms, C = N x Dwell = 97 x 0.4 = 38.8 ms

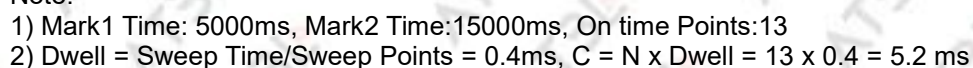
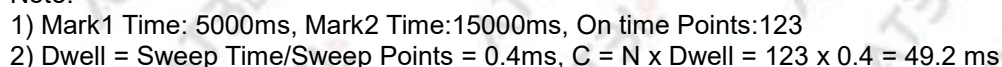
80MHz/5290MHz



Note:

- 1) Mark1 Time: 5000ms, Mark2 Time:15000ms, On time Points:253
- 2) Dwell = Sweep Time/Sweep Points = 0.4ms, C = N x Dwell = 253 x 0.4 = 101.2 ms

80MHz/5530MHz



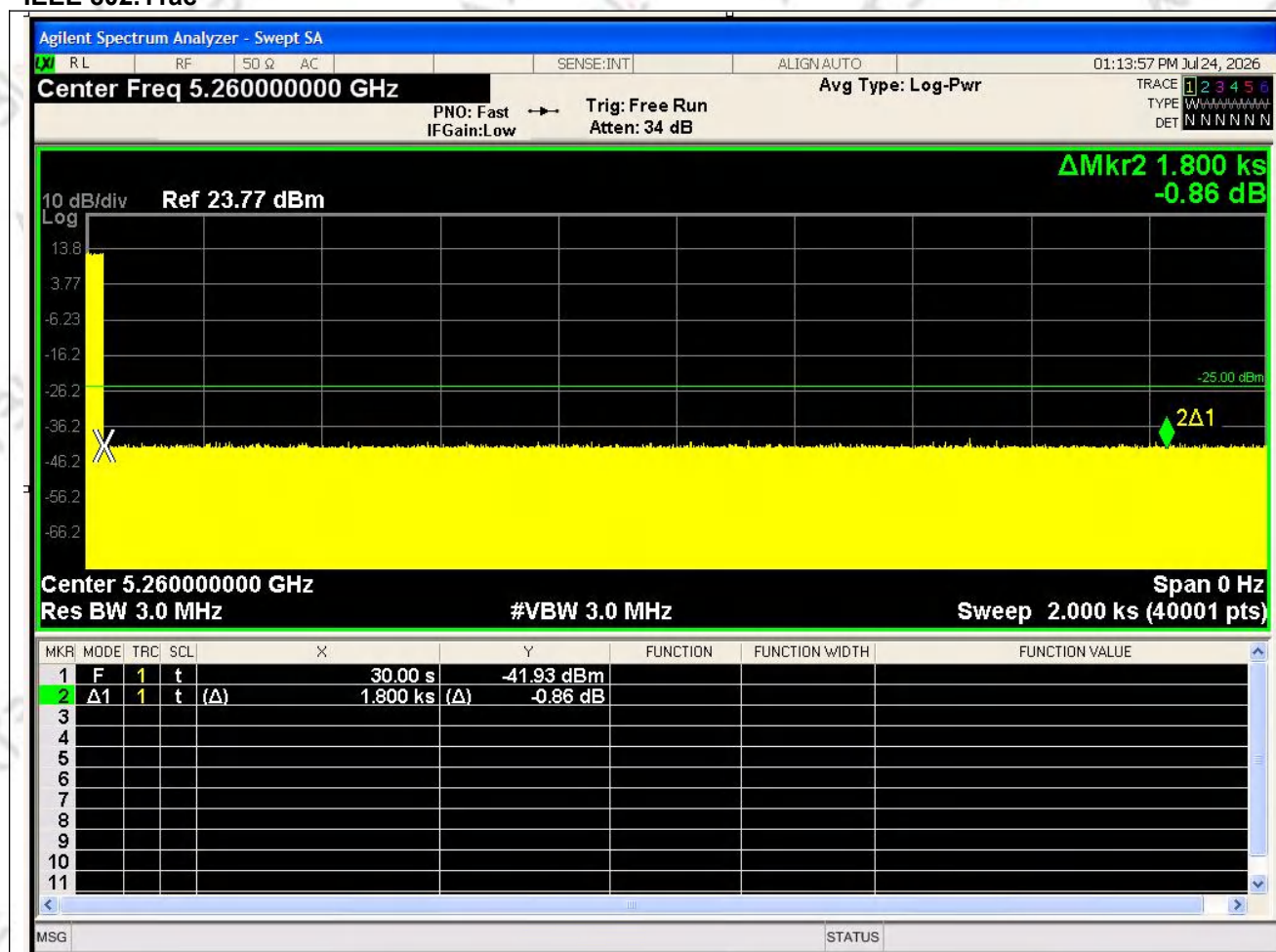
Non-Occupancy Period:

IEEE 802.11ac

BW/Frequency	Test Item	Test Result	Limit	Verdict
52/5260MHz	Non-Occupancy Period	No transmission	30 minutes	PASS
100/5500MHz	Non-Occupancy Period	No transmission	30 minutes	PASS
58/5290MHz	Non-Occupancy Period	No transmission	30 minutes	PASS
106/5530MHz	Non-Occupancy Period	No transmission	30 minutes	PASS
122/5610MHz	Non-Occupancy Period	No transmission	30 minutes	PASS

Test Plots of Non-Occupancy Period

IEEE 802.11ac

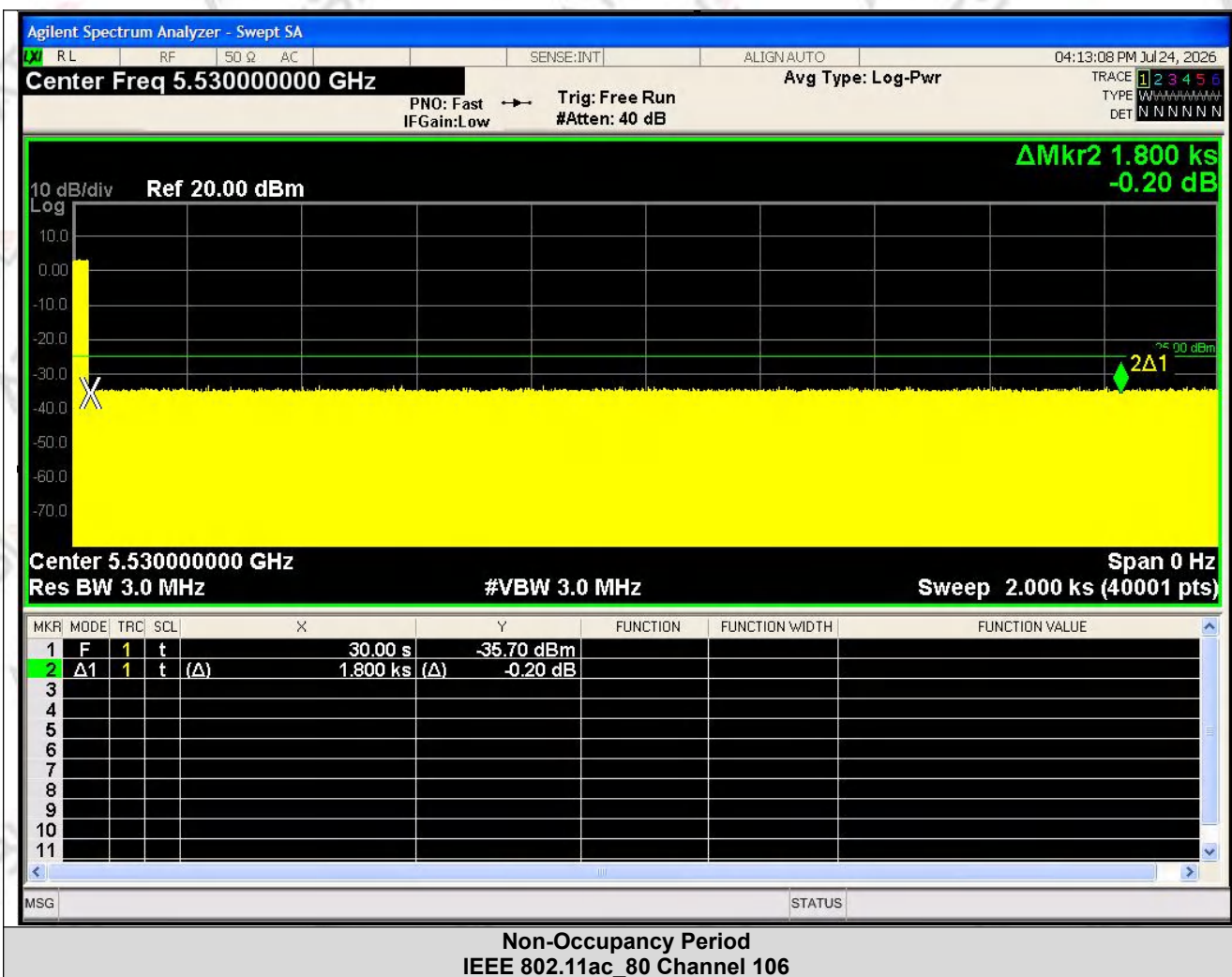


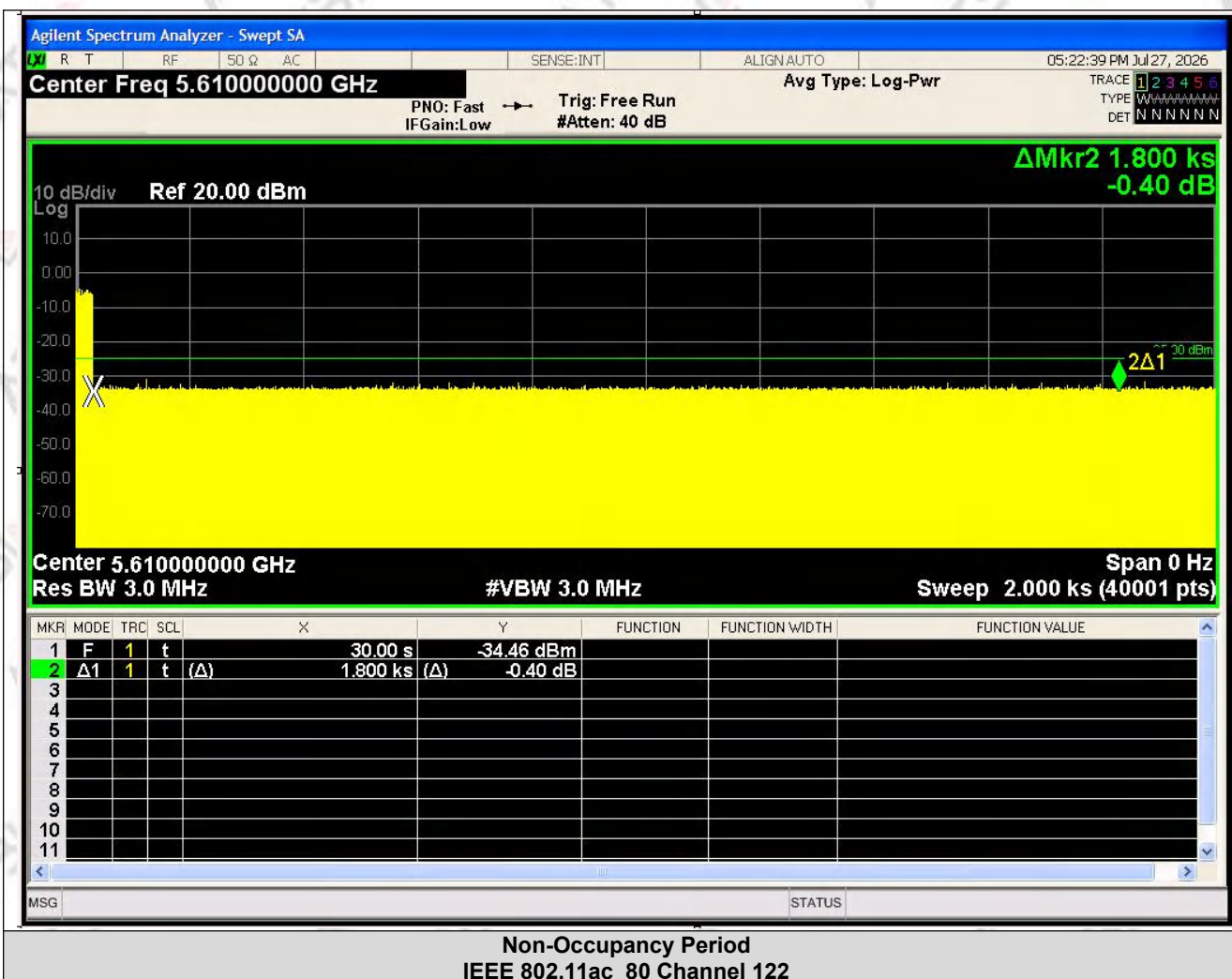
Non-Occupancy Period
IEEE 802.11ac_20 Channel 52





Non-Occupancy Period
IEEE 802.11ac_80 Channel 58





*****END*****