Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	333.500M	52.8	+9.9	+0.3	-107.0		+0.0	-44.0	-40.0	-4.0	Ant1
2	687.500M	51.6	+9.9	+0.5	-107.0		+0.0	-45.0	-40.0	-5.0	Ant1
3	633.500M	50.9	+9.9	+0.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
4	448.500M	50.2	+9.9	+0.4	-107.0		+0.0	-46.5	-40.0	-6.5	Ant1
5	518.000M	49.0	+9.9	+0.4	-107.0		+0.0	-47.7	-40.0	-7.7	Ant1
6	710.500M	47.3	+9.9	+0.5	-107.0		+0.0	-49.3	-40.0	-9.3	Ant1
7	3529.503M Ave	43.0	+9.9	+1.0	-107.0		+0.0	-53.1	-40.0	-13.1	Ant1
^	3529.503M	71.9	+9.9	+1.0	-107.0		+0.0	-24.2	-40.0	+15.8	Ant1
9	3218.381M Ave	38.9	+9.9	+0.9	-107.0		+0.0	-57.3	-40.0	-17.3	Ant1
^	3218.381M	69.9	+9.9	+0.9	-107.0		+0.0	-26.3	-40.0	+13.7	Ant1
11	3219.970M Ave	38.9	+9.9	+0.9	-107.0		+0.0	-57.3	-40.0	-17.3	Ant1
^	3219.970M	67.6	+9.9	+0.9	-107.0		+0.0	-28.6	-40.0	+11.4	Ant1
13	3126.240M Ave	37.5	+9.9	+0.9	-107.0		+0.0	-58.7	-40.0	-18.7	Ant1
^	3126.240M	65.6	+9.9	+0.9	-107.0		+0.0	-30.6	-40.0	+9.4	Ant1
15	3277.650M Ave	37.2	+9.9	+1.0	-107.0		+0.0	-58.9	-40.0	-18.9	Ant1
^	3277.650M	61.4	+9.9	+1.0	-107.0		+0.0	-34.7	-40.0	+5.3	Ant1
17	3326.060M Ave	36.4	+9.9	+1.0	-107.0		+0.0	-59.7	-40.0	-19.7	Ant1
^	3326.060M	60.8	+9.9	+1.0	-107.0		+0.0	-35.3	-40.0	+4.7	Ant1
19	3501.160M Ave	34.5	+9.9	+1.0	-107.0		+0.0	-61.6	-40.0	-21.6	Ant1
^	3501.160M	57.5	+9.9	+1.0	-107.0		+0.0	-38.6	-40.0	+1.4	Ant1
21	3043.840M Ave	34.1	+9.9	+0.9	-107.0		+0.0	-62.1	-40.0	-22.1	Ant1
^	3043.840M	62.0	+9.9	+0.9	-107.0		+0.0	-34.2	-40.0	+5.8	Ant1
23	3382.710M Ave	33.9	+9.9	+1.0	-107.0		+0.0	-62.2	-40.0	-22.2	Ant1
^	3382.710M	56.1	+9.9	+1.0	-107.0		+0.0	-40.0	-40.0	+0.0	Ant1

25	3441.420M Ave	33.5	+9.9	+1.0	-107.0	+0.0	-62.6	-40.0	-22.6	Ant1
^	3441.420M	55.3	+9.9	+1.0	-107.0	+0.0	-40.8	-40.0	-0.8	Ant1
27	2863.590M Ave	30.2	+9.9	+0.9	-107.0	+0.0	-66.0	-40.0	-26.0	Ant1
^	2863.590M	60.1	+9.9	+0.9	-107.0	+0.0	-36.1	-40.0	+3.9	Ant1
29	2899.640M Ave	28.8	+9.9	+0.9	-107.0	+0.0	-67.4	-40.0	-27.4	Ant1
^	2899.640M	56.1	+9.9	+0.9	-107.0	+0.0	-40.1	-40.0	-0.1	Ant1
31	2965.560M Ave	28.3	+9.9	+0.9	-107.0	+0.0	-67.9	-40.0	-27.9	Ant1
^	2965.560M	55.3	+9.9	+0.9	-107.0	+0.0	-40.9	-40.0	-0.9	Ant1
33	2831.660M Ave	26.7	+9.9	+0.9	-107.0	+0.0	-69.5	-40.0	-29.5	Ant1
^	2831.660M	53.5	+9.9	+0.9	-107.0	+0.0	-42.7	-40.0	-2.7	Ant1
35	314.000M Ave	14.7	+9.9	+0.3	-107.0	+0.0	-82.1	-40.0	-42.1	Ant1
^	314.000M	54.6	+9.9	+0.3	-107.0	+0.0	-42.2	-40.0	-2.2	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	12:22:36
Tested By:	Benny Lovan	Sequence#:	22
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

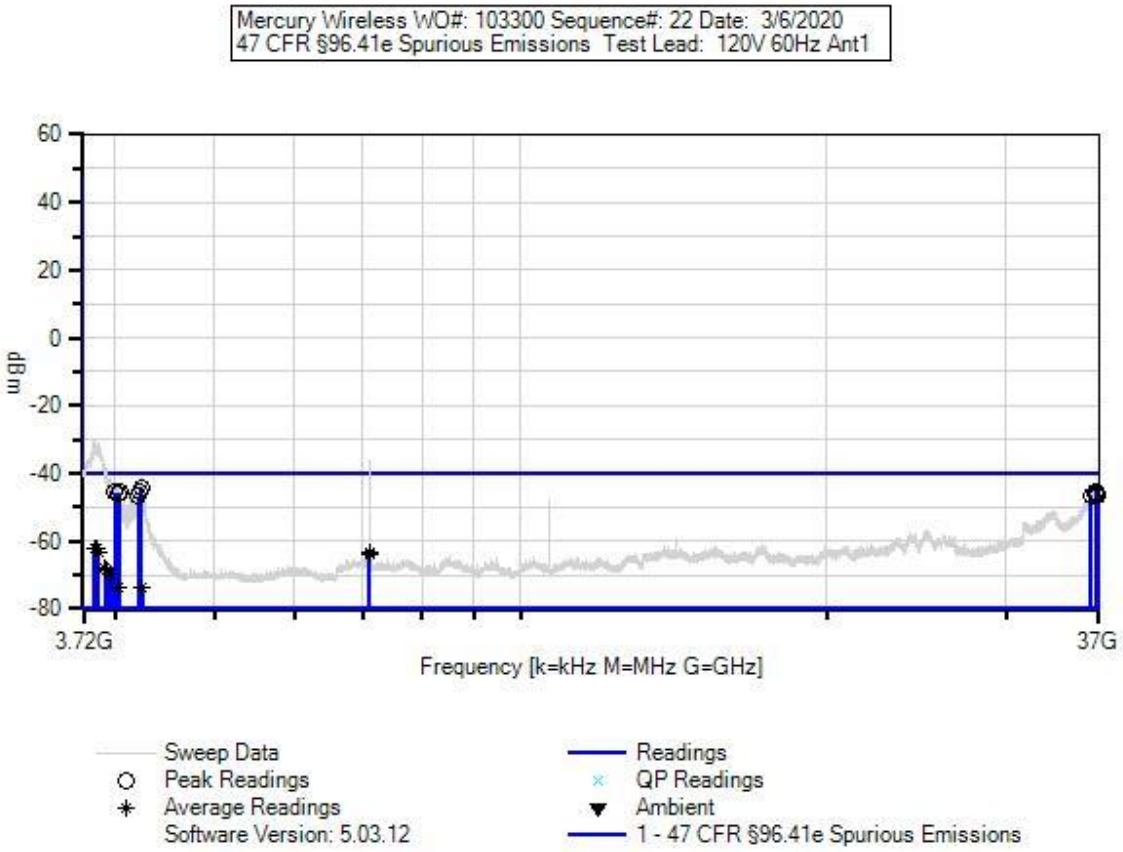
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3553.5 MHz
Modulation: QAM16
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	4242.522M	52.0	+9.9	+1.1	-107.0		+0.0	-44.0	-40.0	-4.0	Ant1
2	4228.508M	50.6	+9.9	+1.1	-107.0		+0.0	-45.4	-40.0	-5.4	Ant1
3	36746.994 M	47.8	+10.4	+3.4	-107.0		+0.0	-45.4	-40.0	-5.4	Ant1
4	4040.320M	50.4	+9.9	+1.1	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
5	4000.280M	50.3	+9.9	+1.1	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
6	36771.772 M	47.4	+10.4	+3.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
7	4034.314M	50.2	+9.9	+1.1	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
8	36859.704 M	47.4	+10.4	+3.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
9	36807.834 M	47.4	+10.4	+3.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
10	36760.410 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
11	36764.362 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
12	36794.249 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
13	36849.083 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
14	36754.482 M	47.1	+10.4	+3.4	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
15	36829.817 M	47.0	+10.4	+3.4	-107.0		+0.0	-46.2	-40.0	-6.2	Ant1
16	36320.568 M	46.7	+10.5	+3.3	-107.0		+0.0	-46.5	-40.0	-6.5	Ant1
17	4210.490M	49.4	+9.9	+1.1	-107.0		+0.0	-46.6	-40.0	-6.6	Ant1
18	36821.172 M	46.6	+10.4	+3.4	-107.0		+0.0	-46.6	-40.0	-6.6	Ant1

19	3830.110M Ave	33.8	+9.9	+1.0	-107.0	+0.0	-62.3	-40.0	-22.3	Ant1
^	3830.110M	64.8	+9.9	+1.0	-107.0	+0.0	-31.3	-40.0	+8.7	Ant1
21	3812.092M Ave	33.8	+9.9	+1.0	-107.0	+0.0	-62.3	-40.0	-22.3	Ant1
^	3812.092M	65.8	+9.9	+1.0	-107.0	+0.0	-30.3	-40.0	+9.7	Ant1
23	3819.099M Ave	33.8	+9.9	+1.0	-107.0	+0.0	-62.3	-40.0	-22.3	Ant1
^	3819.099M	66.1	+9.9	+1.0	-107.0	+0.0	-30.0	-40.0	+10.0	Ant1
25	7112.389M Ave	32.4	+10.0	+1.5	-107.0	+0.0	-63.1	-40.0	-23.1	Ant1
^	7112.389M	59.0	+10.0	+1.5	-107.0	+0.0	-36.5	-40.0	+3.5	Ant1
27	3852.132M Ave	33.0	+9.9	+1.0	-107.0	+0.0	-63.1	-40.0	-23.1	Ant1
^	3852.132M	65.4	+9.9	+1.0	-107.0	+0.0	-30.7	-40.0	+9.3	Ant1
29	7107.384M Ave	31.9	+10.0	+1.5	-107.0	+0.0	-63.6	-40.0	-23.6	Ant1
^	7107.384M	59.0	+10.0	+1.5	-107.0	+0.0	-36.5	-40.0	+3.5	Ant1
31	3907.187M Ave	28.2	+9.9	+1.0	-107.0	+0.0	-67.9	-40.0	-27.9	Ant1
^	3907.187M	58.2	+9.9	+1.0	-107.0	+0.0	-37.9	-40.0	+2.1	Ant1
33	3924.204M Ave	27.4	+9.9	+1.0	-107.0	+0.0	-68.7	-40.0	-28.7	Ant1
^	3924.204M	57.9	+9.9	+1.0	-107.0	+0.0	-38.2	-40.0	+1.8	Ant1
35	3963.243M Ave	26.6	+9.9	+1.1	-107.0	+0.0	-69.4	-40.0	-29.4	Ant1
^	3963.243M	54.8	+9.9	+1.1	-107.0	+0.0	-41.2	-40.0	-1.2	Ant1
37	4019.299M Ave	22.3	+9.9	+1.1	-107.0	+0.0	-73.7	-40.0	-33.7	Ant1
^	4019.299M	52.4	+9.9	+1.1	-107.0	+0.0	-43.6	-40.0	-3.6	Ant1
39	4249.529M Ave	22.1	+9.9	+1.1	-107.0	+0.0	-73.9	-40.0	-33.9	Ant1
^	4249.529M	53.4	+9.9	+1.1	-107.0	+0.0	-42.6	-40.0	-2.6	Ant1
41	4239.519M Ave	22.1	+9.9	+1.1	-107.0	+0.0	-73.9	-40.0	-33.9	Ant1
^	4239.519M	54.9	+9.9	+1.1	-107.0	+0.0	-41.1	-40.0	-1.1	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	12:34:59
Tested By:	Benny Lovan	Sequence#:	23
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

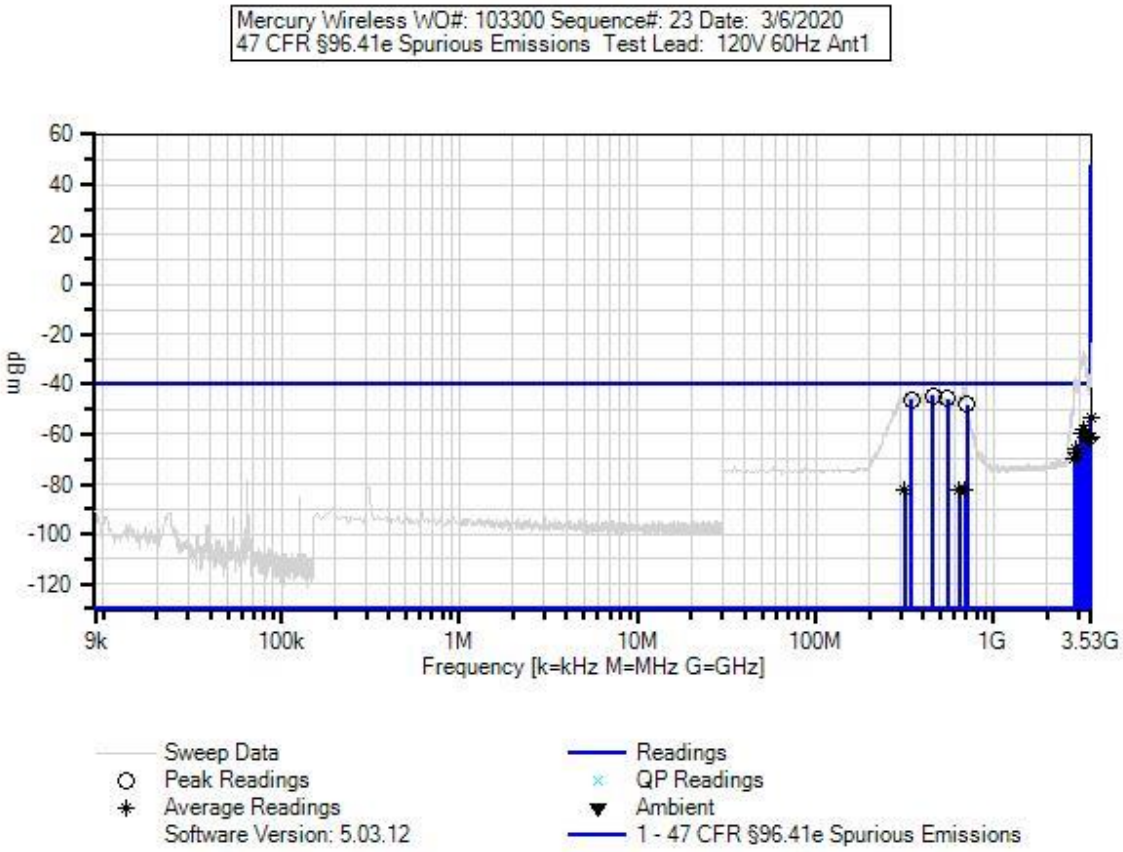
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3553.5 MHz
Modulation: QAM64
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	454.500M	52.3	+9.9	+0.4	-107.0		+0.0	-44.4	-40.0	-4.4	Ant1
2	552.000M	50.9	+9.9	+0.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
3	346.500M	50.7	+9.9	+0.3	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
4	711.000M	48.4	+9.9	+0.5	-107.0		+0.0	-48.2	-40.0	-8.2	Ant1
5	3529.503M Ave	43.1	+9.9	+1.0	-107.0		+0.0	-53.0	-40.0	-13.0	Ant1
^	3529.503M	72.3	+9.9	+1.0	-107.0		+0.0	-23.8	-40.0	+16.2	Ant1
7	3175.639M Ave	38.3	+9.9	+0.9	-107.0		+0.0	-57.9	-40.0	-17.9	Ant1
^	3175.639M	69.8	+9.9	+0.9	-107.0		+0.0	-26.4	-40.0	+13.6	Ant1
9	3176.710M Ave	38.3	+9.9	+0.9	-107.0		+0.0	-57.9	-40.0	-17.9	Ant1
^	3176.710M	65.4	+9.9	+0.9	-107.0		+0.0	-30.8	-40.0	+9.2	Ant1
11	3306.490M Ave	36.6	+9.9	+1.0	-107.0		+0.0	-59.5	-40.0	-19.5	Ant1
^	3306.490M	63.4	+9.9	+1.0	-107.0		+0.0	-32.7	-40.0	+7.3	Ant1
13	3076.800M Ave	36.2	+9.9	+0.9	-107.0		+0.0	-60.0	-40.0	-20.0	Ant1
^	3076.800M	65.4	+9.9	+0.9	-107.0		+0.0	-30.8	-40.0	+9.2	Ant1
15	3499.100M Ave	34.7	+9.9	+1.0	-107.0		+0.0	-61.4	-40.0	-21.4	Ant1
^	3499.100M	57.5	+9.9	+1.0	-107.0		+0.0	-38.6	-40.0	+1.4	Ant1
17	3365.200M Ave	34.7	+9.9	+1.0	-107.0		+0.0	-61.4	-40.0	-21.4	Ant1
^	3365.200M	58.8	+9.9	+1.0	-107.0		+0.0	-37.3	-40.0	+2.7	Ant1
19	3449.660M Ave	33.8	+9.9	+1.0	-107.0		+0.0	-62.3	-40.0	-22.3	Ant1
^	3449.660M	55.8	+9.9	+1.0	-107.0		+0.0	-40.3	-40.0	-0.3	Ant1
21	2860.500M Ave	30.4	+9.9	+0.9	-107.0		+0.0	-65.8	-40.0	-25.8	Ant1
^	2860.500M	58.2	+9.9	+0.9	-107.0		+0.0	-38.0	-40.0	+2.0	Ant1
23	2977.920M Ave	29.1	+9.9	+0.9	-107.0		+0.0	-67.1	-40.0	-27.1	Ant1
^	2977.920M	57.3	+9.9	+0.9	-107.0		+0.0	-38.9	-40.0	+1.1	Ant1

25	2907.880M Ave	28.5	+9.9	+0.9	-107.0	+0.0	-67.7	-40.0	-27.7	Ant1
^	2907.880M	53.7	+9.9	+0.9	-107.0	+0.0	-42.5	-40.0	-2.5	Ant1
27	2830.630M Ave	26.5	+9.9	+0.9	-107.0	+0.0	-69.7	-40.0	-29.7	Ant1
^	2830.630M	53.4	+9.9	+0.9	-107.0	+0.0	-42.8	-40.0	-2.8	Ant1
29	316.000M Ave	14.8	+9.9	+0.3	-107.0	+0.0	-82.0	-40.0	-42.0	Ant1
^	316.000M	53.3	+9.9	+0.3	-107.0	+0.0	-43.5	-40.0	-3.5	Ant1
31	686.500M Ave	14.6	+9.9	+0.5	-107.0	+0.0	-82.0	-40.0	-42.0	Ant1
^	686.500M	53.5	+9.9	+0.5	-107.0	+0.0	-43.1	-40.0	-3.1	Ant1
33	640.500M Ave	14.4	+9.9	+0.5	-107.0	+0.0	-82.2	-40.0	-42.2	Ant1
^	640.500M	52.7	+9.9	+0.5	-107.0	+0.0	-43.9	-40.0	-3.9	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	14:35:40
Tested By:	Benny Lovan	Sequence#:	24
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

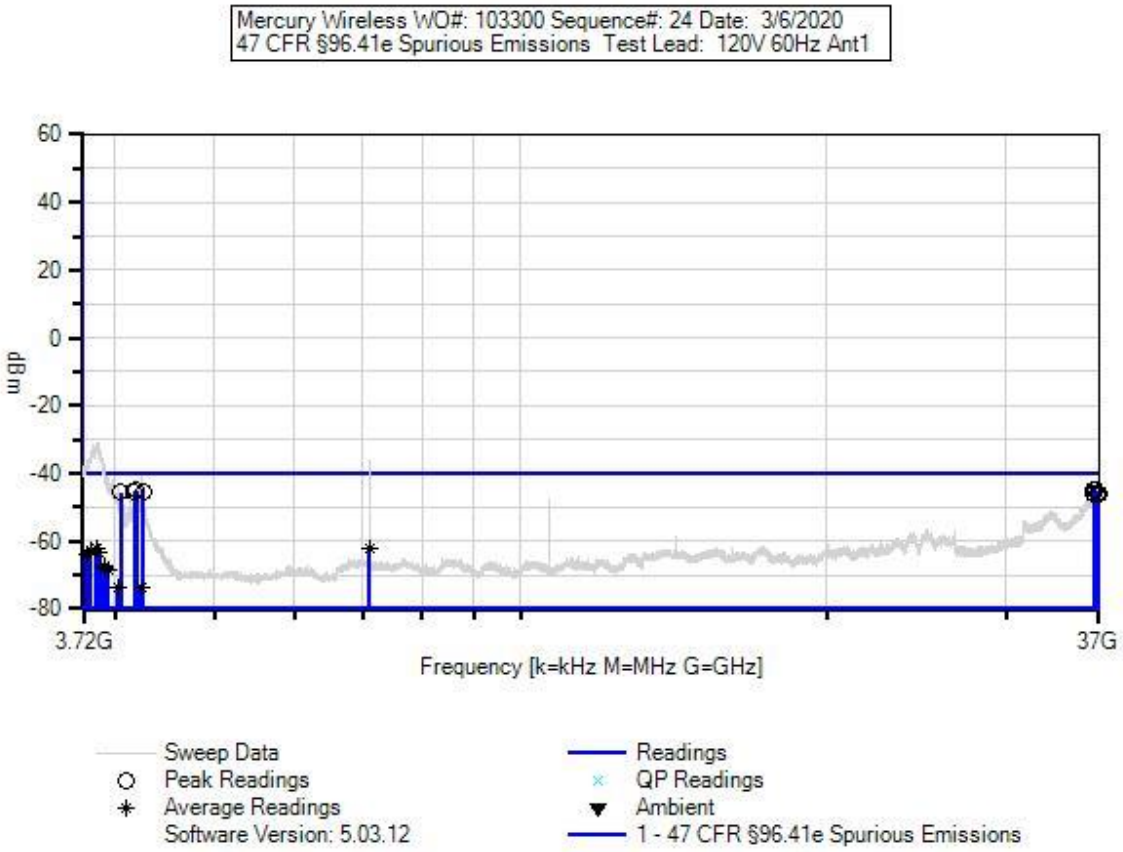
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3553.5 MHz
Modulation: QAM64
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	36522.770 M	48.4	+10.5	+3.3	-107.0		+0.0	-44.8	-40.0	-4.8	Ant1
2	36705.953 M	48.3	+10.4	+3.4	-107.0		+0.0	-44.9	-40.0	-4.9	Ant1
3	4195.475M	50.9	+9.9	+1.1	-107.0		+0.0	-45.1	-40.0	-5.1	Ant1
4	4178.458M	50.6	+9.9	+1.1	-107.0		+0.0	-45.4	-40.0	-5.4	Ant1
5	4260.540M	50.5	+9.9	+1.1	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
6	4050.330M	50.3	+9.9	+1.1	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
7	36846.613 M	47.4	+10.4	+3.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
8	36770.290 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
9	36545.793 M	47.3	+10.5	+3.3	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
10	36775.724 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
11	36871.807 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
12	36843.155 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
13	36883.910 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
14	36920.219 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
15	7106.383M Ave	33.5	+10.0	+1.5	-107.0		+0.0	-62.0	-40.0	-22.0	Ant1
^	7106.383M	59.4	+10.0	+1.5	-107.0		+0.0	-36.1	-40.0	+3.9	Ant1

17	3833.113M Ave	34.0	+9.9	+1.0	-107.0	+0.0	-62.1	-40.0	-22.1	Ant1
^	3833.113M	65.3	+9.9	+1.0	-107.0	+0.0	-30.8	-40.0	+9.2	Ant1
19	3779.059M Ave	33.5	+9.9	+1.0	-107.0	+0.0	-62.6	-40.0	-22.6	Ant1
^	3779.059M	63.0	+9.9	+1.0	-107.0	+0.0	-33.1	-40.0	+6.9	Ant1
21	3855.135M Ave	32.7	+9.9	+1.0	-107.0	+0.0	-63.4	-40.0	-23.4	Ant1
^	3855.135M	65.3	+9.9	+1.0	-107.0	+0.0	-30.8	-40.0	+9.2	Ant1
23	3749.029M Ave	32.1	+9.9	+1.0	-107.0	+0.0	-64.0	-40.0	-24.0	Ant1
^	3749.029M	59.9	+9.9	+1.0	-107.0	+0.0	-36.2	-40.0	+3.8	Ant1
25	3902.182M Ave	28.5	+9.9	+1.0	-107.0	+0.0	-67.6	-40.0	-27.6	Ant1
^	3902.182M	58.6	+9.9	+1.0	-107.0	+0.0	-37.5	-40.0	+2.5	Ant1
27	3905.185M Ave	28.3	+9.9	+1.0	-107.0	+0.0	-67.8	-40.0	-27.8	Ant1
^	3905.185M	58.2	+9.9	+1.0	-107.0	+0.0	-37.9	-40.0	+2.1	Ant1
29	3910.190M Ave	28.0	+9.9	+1.0	-107.0	+0.0	-68.1	-40.0	-28.1	Ant1
^	3910.190M	58.6	+9.9	+1.0	-107.0	+0.0	-37.5	-40.0	+2.5	Ant1
31	3937.217M Ave	27.4	+9.9	+1.1	-107.0	+0.0	-68.6	-40.0	-28.6	Ant1
^	3937.217M	54.9	+9.9	+1.1	-107.0	+0.0	-41.1	-40.0	-1.1	Ant1
33	4020.300M Ave	22.6	+9.9	+1.1	-107.0	+0.0	-73.4	-40.0	-33.4	Ant1
^	4020.300M	52.6	+9.9	+1.1	-107.0	+0.0	-43.4	-40.0	-3.4	Ant1
35	4241.521M Ave	22.2	+9.9	+1.1	-107.0	+0.0	-73.8	-40.0	-33.8	Ant1
^	4241.521M	55.1	+9.9	+1.1	-107.0	+0.0	-40.9	-40.0	-0.9	Ant1
37	4251.531M Ave	22.1	+9.9	+1.1	-107.0	+0.0	-73.9	-40.0	-33.9	Ant1
^	4251.531M	54.4	+9.9	+1.1	-107.0	+0.0	-41.6	-40.0	-1.6	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	14:47:40
Tested By:	Benny Lovan	Sequence#:	25
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

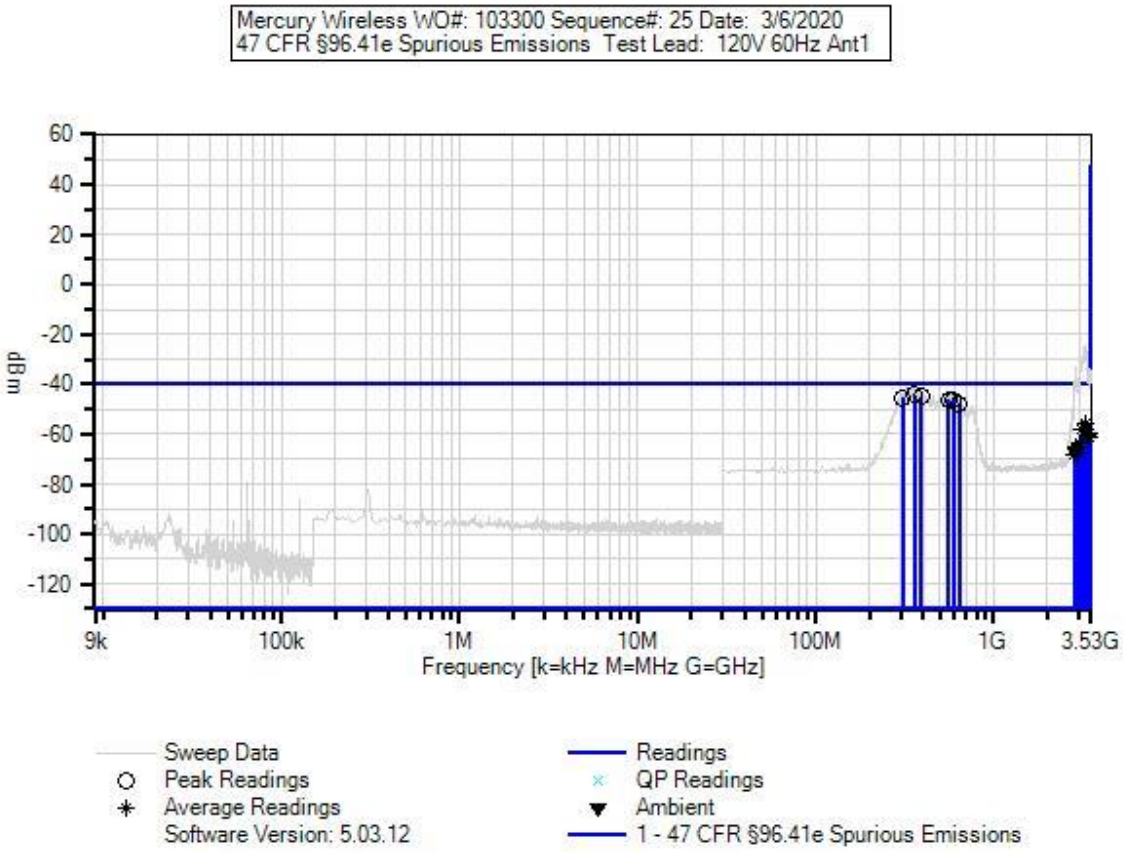
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3625 MHz
Modulation: QPSK
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	358.500M	52.5	+9.9	+0.3	-107.0		+0.0	-44.3	-40.0	-4.3	Ant1
2	393.500M	51.9	+9.9	+0.4	-107.0		+0.0	-44.8	-40.0	-4.8	Ant1
3	309.500M	51.6	+9.9	+0.3	-107.0		+0.0	-45.2	-40.0	-5.2	Ant1
4	594.000M	50.6	+9.9	+0.4	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
5	558.500M	50.6	+9.9	+0.4	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
6	639.500M	48.9	+9.9	+0.5	-107.0		+0.0	-47.7	-40.0	-7.7	Ant1
7	3248.698M Ave	40.6	+9.9	+1.0	-107.0		+0.0	-55.5	-40.0	-15.5	Ant1
^	3248.698M	72.0	+9.9	+1.0	-107.0		+0.0	-24.1	-40.0	+15.9	Ant1
9	3121.090M Ave	37.8	+9.9	+0.9	-107.0		+0.0	-58.4	-40.0	-18.4	Ant1
^	3121.090M	66.0	+9.9	+0.9	-107.0		+0.0	-30.2	-40.0	+9.8	Ant1
11	3421.850M Ave	36.3	+9.9	+1.0	-107.0		+0.0	-59.8	-40.0	-19.8	Ant1
^	3421.850M	61.4	+9.9	+1.0	-107.0		+0.0	-34.7	-40.0	+5.3	Ant1
13	3364.170M Ave	35.7	+9.9	+1.0	-107.0		+0.0	-60.4	-40.0	-20.4	Ant1
^	3364.170M	58.0	+9.9	+1.0	-107.0		+0.0	-38.1	-40.0	+1.9	Ant1
15	3462.020M Ave	35.1	+9.9	+1.0	-107.0		+0.0	-61.0	-40.0	-21.0	Ant1
^	3462.020M	57.0	+9.9	+1.0	-107.0		+0.0	-39.1	-40.0	+0.9	Ant1
17	3018.090M Ave	32.3	+9.9	+0.9	-107.0		+0.0	-63.9	-40.0	-23.9	Ant1
^	3018.090M	58.0	+9.9	+0.9	-107.0		+0.0	-38.2	-40.0	+1.8	Ant1

19	2866.680M Ave	30.8	+9.9	+0.9	-107.0	+0.0	-65.4	-40.0	-25.4	Ant1
^	2866.680M	62.7	+9.9	+0.9	-107.0	+0.0	-33.5	-40.0	+6.5	Ant1
21	2889.340M Ave	30.0	+9.9	+0.9	-107.0	+0.0	-66.2	-40.0	-26.2	Ant1
^	2889.340M	56.9	+9.9	+0.9	-107.0	+0.0	-39.3	-40.0	+0.7	Ant1
23	2941.870M Ave	28.6	+9.9	+0.9	-107.0	+0.0	-67.6	-40.0	-27.6	Ant1
^	2941.870M	53.9	+9.9	+0.9	-107.0	+0.0	-42.3	-40.0	-2.3	Ant1
25	2835.780M Ave	28.0	+9.9	+0.9	-107.0	+0.0	-68.2	-40.0	-28.2	Ant1
^	2835.780M	55.6	+9.9	+0.9	-107.0	+0.0	-40.6	-40.0	-0.6	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	15:00:57
Tested By:	Benny Lovan	Sequence#:	26
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

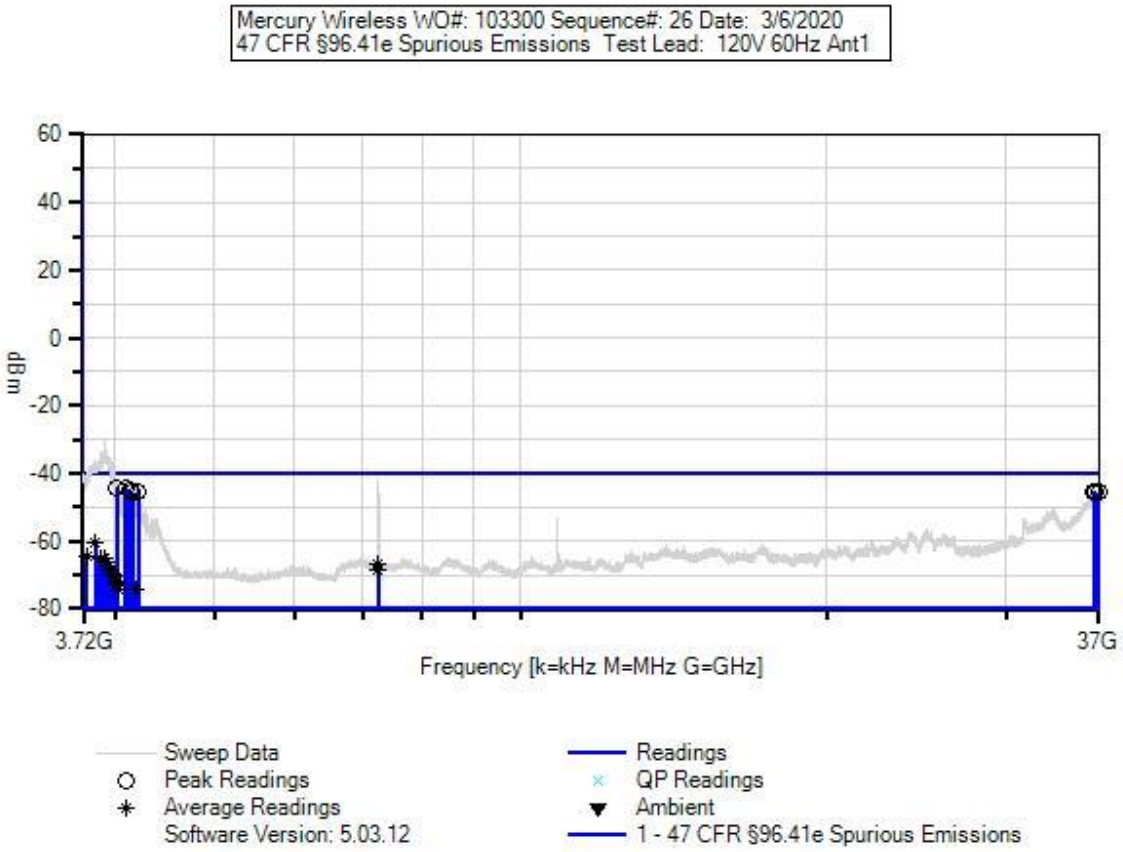
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3625 MHz
Modulation: QPSK
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	4013.293M	52.0	+9.9	+1.1	-107.0		+0.0	-44.0	-40.0	-4.0	Ant1
2	4092.372M	51.5	+9.9	+1.1	-107.0		+0.0	-44.5	-40.0	-4.5	Ant1
3	4133.413M	51.2	+9.9	+1.1	-107.0		+0.0	-44.8	-40.0	-4.8	Ant1
4	36535.783 M	47.9	+10.5	+3.3	-107.0		+0.0	-45.3	-40.0	-5.3	Ant1
5	36930.840 M	47.7	+10.4	+3.4	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
6	4159.439M	50.3	+9.9	+1.1	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
7	4209.489M	50.3	+9.9	+1.1	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
8	36601.849 M	47.5	+10.5	+3.3	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
9	3825.105M Ave	35.6	+9.9	+1.0	-107.0		+0.0	-60.5	-40.0	-20.5	Ant1
^	3825.105M	60.1	+9.9	+1.0	-107.0		+0.0	-36.0	-40.0	+4.0	Ant1
11	3746.026M Ave	31.9	+9.9	+1.0	-107.0		+0.0	-64.2	-40.0	-24.2	Ant1
^	3746.026M	56.5	+9.9	+1.0	-107.0		+0.0	-39.6	-40.0	+0.4	Ant1
13	3904.184M Ave	31.0	+9.9	+1.0	-107.0		+0.0	-65.1	-40.0	-25.1	Ant1
^	3904.184M	66.0	+9.9	+1.0	-107.0		+0.0	-30.1	-40.0	+9.9	Ant1
15	3912.192M Ave	30.9	+9.9	+1.0	-107.0		+0.0	-65.2	-40.0	-25.2	Ant1
^	3912.192M	63.7	+9.9	+1.0	-107.0		+0.0	-32.4	-40.0	+7.6	Ant1
17	3867.147M Ave	30.9	+9.9	+1.0	-107.0		+0.0	-65.2	-40.0	-25.2	Ant1
^	3867.147M	62.0	+9.9	+1.0	-107.0		+0.0	-34.1	-40.0	+5.9	Ant1
19	3878.158M Ave	30.8	+9.9	+1.0	-107.0		+0.0	-65.3	-40.0	-25.3	Ant1
^	3878.158M	63.0	+9.9	+1.0	-107.0		+0.0	-33.1	-40.0	+6.9	Ant1

21	3928.208M Ave	30.1	+9.9	+1.1	-107.0	+0.0	-65.9	-40.0	-25.9	Ant1
^	3928.208M	62.3	+9.9	+1.1	-107.0	+0.0	-33.7	-40.0	+6.3	Ant1
23	7251.528M Ave	28.8	+10.0	+1.5	-107.0	+0.0	-66.7	-40.0	-26.7	Ant1
^	7251.528M	53.4	+10.0	+1.5	-107.0	+0.0	-42.1	-40.0	-2.1	Ant1
25	7246.523M Ave	27.2	+10.0	+1.5	-107.0	+0.0	-68.3	-40.0	-28.3	Ant1
^	7246.523M	53.9	+10.0	+1.5	-107.0	+0.0	-41.6	-40.0	-1.6	Ant1
27	3962.242M Ave	27.5	+9.9	+1.1	-107.0	+0.0	-68.5	-40.0	-28.5	Ant1
^	3962.242M	60.0	+9.9	+1.1	-107.0	+0.0	-36.0	-40.0	+4.0	Ant1
29	3979.259M Ave	26.2	+9.9	+1.1	-107.0	+0.0	-69.8	-40.0	-29.8	Ant1
^	3979.259M	59.5	+9.9	+1.1	-107.0	+0.0	-36.5	-40.0	+3.5	Ant1
31	3985.265M Ave	25.7	+9.9	+1.1	-107.0	+0.0	-70.3	-40.0	-30.3	Ant1
^	3985.265M	59.0	+9.9	+1.1	-107.0	+0.0	-37.0	-40.0	+3.0	Ant1
33	4002.282M Ave	24.2	+9.9	+1.1	-107.0	+0.0	-71.8	-40.0	-31.8	Ant1
^	4002.282M	53.7	+9.9	+1.1	-107.0	+0.0	-42.3	-40.0	-2.3	Ant1
35	4008.288M Ave	23.7	+9.9	+1.1	-107.0	+0.0	-72.3	-40.0	-32.3	Ant1
^	4008.288M	53.6	+9.9	+1.1	-107.0	+0.0	-42.4	-40.0	-2.4	Ant1
37	4026.306M Ave	21.9	+9.9	+1.1	-107.0	+0.0	-74.1	-40.0	-34.1	Ant1
^	4026.306M	52.9	+9.9	+1.1	-107.0	+0.0	-43.1	-40.0	-3.1	Ant1
39	4186.466M Ave	21.8	+9.9	+1.1	-107.0	+0.0	-74.2	-40.0	-34.2	Ant1
^	4186.466M	52.8	+9.9	+1.1	-107.0	+0.0	-43.2	-40.0	-3.2	Ant1
41	4197.477M Ave	21.8	+9.9	+1.1	-107.0	+0.0	-74.2	-40.0	-34.2	Ant1
^	4197.477M	52.6	+9.9	+1.1	-107.0	+0.0	-43.4	-40.0	-3.4	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	15:13:07
Tested By:	Benny Lovan	Sequence#:	27
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

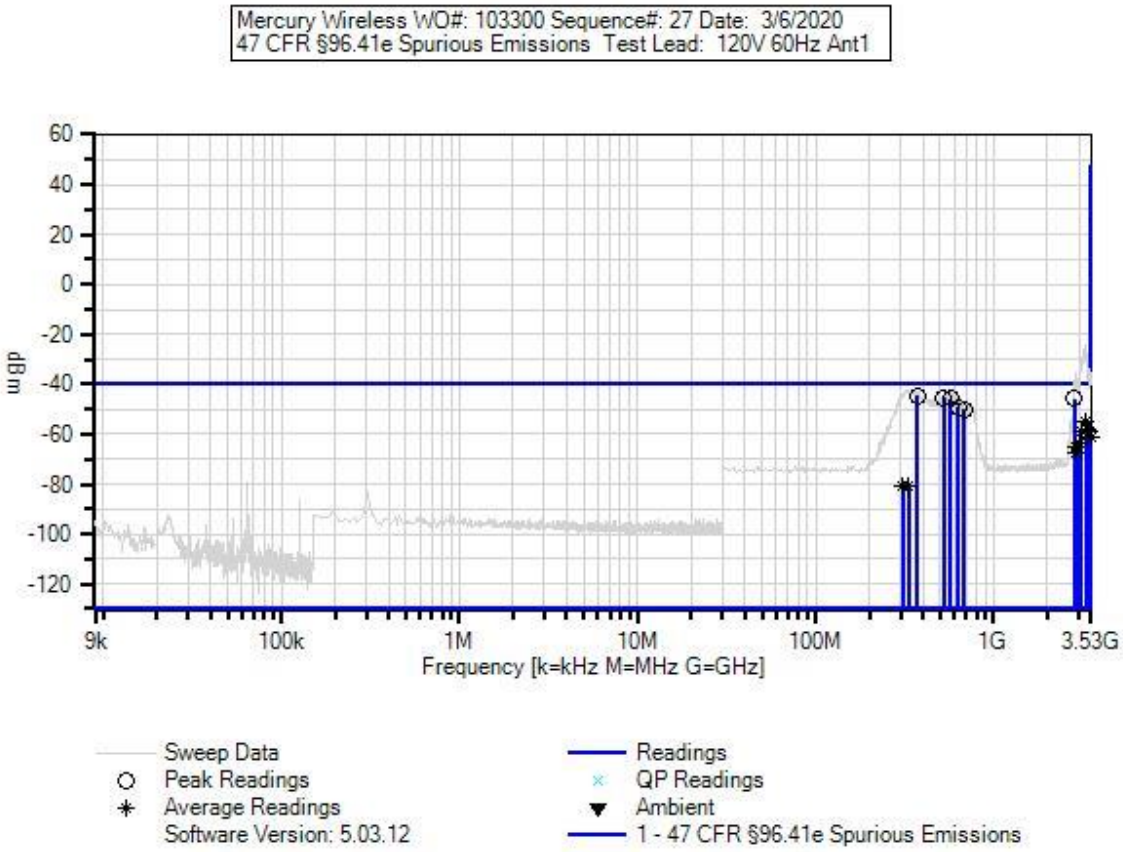
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3625 MHz
Modulation: QAM16
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	374.000M	52.3	+9.9	+0.3	-107.0		+0.0	-44.5	-40.0	-4.5	Ant1
2	522.000M	51.3	+9.9	+0.4	-107.0		+0.0	-45.4	-40.0	-5.4	Ant1
3	2823.420M	50.4	+9.9	+0.9	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
4	571.000M	50.8	+9.9	+0.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
5	634.500M	47.5	+9.9	+0.4	-107.0		+0.0	-49.2	-40.0	-9.2	Ant1
6	683.500M	46.6	+9.9	+0.5	-107.0		+0.0	-50.0	-40.0	-10.0	Ant1
7	3280.506M Ave	40.8	+9.9	+1.0	-107.0		+0.0	-55.3	-40.0	-15.3	Ant1
^	3280.506M	71.4	+9.9	+1.0	-107.0		+0.0	-24.7	-40.0	+15.3	Ant1
9	3328.120M Ave	37.9	+9.9	+1.0	-107.0		+0.0	-58.2	-40.0	-18.2	Ant1
^	3328.120M	64.3	+9.9	+1.0	-107.0		+0.0	-31.8	-40.0	+8.2	Ant1
11	3100.490M Ave	37.2	+9.9	+0.9	-107.0		+0.0	-59.0	-40.0	-19.0	Ant1
^	3100.490M	63.9	+9.9	+0.9	-107.0		+0.0	-32.3	-40.0	+7.7	Ant1
13	3401.250M Ave	37.0	+9.9	+1.0	-107.0		+0.0	-59.1	-40.0	-19.1	Ant1
^	3401.250M	60.1	+9.9	+1.0	-107.0		+0.0	-36.0	-40.0	+4.0	Ant1
15	3513.520M Ave	35.2	+9.9	+1.0	-107.0		+0.0	-60.9	-40.0	-20.9	Ant1
^	3513.520M	56.8	+9.9	+1.0	-107.0		+0.0	-39.3	-40.0	+0.7	Ant1
17	3019.120M Ave	32.3	+9.9	+0.9	-107.0		+0.0	-63.9	-40.0	-23.9	Ant1
^	3019.120M	58.1	+9.9	+0.9	-107.0		+0.0	-38.1	-40.0	+1.9	Ant1

19	2865.650M Ave	30.8	+9.9	+0.9	-107.0	+0.0	-65.4	-40.0	-25.4	Ant1
^	2865.650M	57.6	+9.9	+0.9	-107.0	+0.0	-38.6	-40.0	+1.4	Ant1
21	2908.910M Ave	28.8	+9.9	+0.9	-107.0	+0.0	-67.4	-40.0	-27.4	Ant1
^	2908.910M	56.2	+9.9	+0.9	-107.0	+0.0	-40.0	-40.0	+0.0	Ant1
23	331.000M Ave	16.0	+9.9	+0.3	-107.0	+0.0	-80.8	-40.0	-40.8	Ant1
^	331.000M	53.8	+9.9	+0.3	-107.0	+0.0	-43.0	-40.0	-3.0	Ant1
25	307.000M Ave	15.8	+9.9	+0.3	-107.0	+0.0	-81.0	-40.0	-41.0	Ant1
^	307.000M	53.9	+9.9	+0.3	-107.0	+0.0	-42.9	-40.0	-2.9	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	15:26:25
Tested By:	Benny Lovan	Sequence#:	28
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3625 MHz
Modulation: QAM16
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	4026.306M	51.5	+9.9	+1.1	-107.0		+0.0	-44.5	-40.0	-4.5	Ant1
2	36466.714 M	48.7	+10.5	+3.3	-107.0		+0.0	-44.5	-40.0	-4.5	Ant1
3	36784.863 M	47.9	+10.4	+3.4	-107.0		+0.0	-45.3	-40.0	-5.3	Ant1
4	4028.308M	50.7	+9.9	+1.1	-107.0		+0.0	-45.3	-40.0	-5.3	Ant1
5	4138.418M	50.7	+9.9	+1.1	-107.0		+0.0	-45.3	-40.0	-5.3	Ant1
6	3768.048M Ave	31.5	+9.9	+1.0	-107.0		+0.0	-64.6	-40.0	-24.6	Ant1
^	3768.048M	57.3	+9.9	+1.0	-107.0		+0.0	-38.8	-40.0	+1.2	Ant1
8	3905.185M Ave	31.1	+9.9	+1.0	-107.0		+0.0	-65.0	-40.0	-25.0	Ant1
^	3905.185M	64.8	+9.9	+1.0	-107.0		+0.0	-31.3	-40.0	+8.7	Ant1
10	3880.160M Ave	30.9	+9.9	+1.0	-107.0		+0.0	-65.2	-40.0	-25.2	Ant1
^	3880.160M	63.5	+9.9	+1.0	-107.0		+0.0	-32.6	-40.0	+7.4	Ant1
12	3869.149M Ave	30.8	+9.9	+1.0	-107.0		+0.0	-65.3	-40.0	-25.3	Ant1
^	3869.149M	61.1	+9.9	+1.0	-107.0		+0.0	-35.0	-40.0	+5.0	Ant1
14	3912.192M Ave	30.8	+9.9	+1.0	-107.0		+0.0	-65.3	-40.0	-25.3	Ant1
^	3912.192M	64.8	+9.9	+1.0	-107.0		+0.0	-31.3	-40.0	+8.7	Ant1
16	3931.211M Ave	29.9	+9.9	+1.1	-107.0		+0.0	-66.1	-40.0	-26.1	Ant1
^	3931.211M	65.7	+9.9	+1.1	-107.0		+0.0	-30.3	-40.0	+9.7	Ant1
18	3951.231M Ave	28.3	+9.9	+1.1	-107.0		+0.0	-67.7	-40.0	-27.7	Ant1
^	3951.231M	61.6	+9.9	+1.1	-107.0		+0.0	-34.4	-40.0	+5.6	Ant1
20	7246.523M Ave	27.2	+10.0	+1.5	-107.0		+0.0	-68.3	-40.0	-28.3	Ant1
^	7246.523M	54.1	+10.0	+1.5	-107.0		+0.0	-41.4	-40.0	-1.4	Ant1
22	3958.238M Ave	27.7	+9.9	+1.1	-107.0		+0.0	-68.3	-40.0	-28.3	Ant1
^	3958.238M	63.7	+9.9	+1.1	-107.0		+0.0	-32.3	-40.0	+7.7	Ant1

24	3987.267M Ave	25.6	+9.9	+1.1	-107.0	+0.0	-70.4	-40.0	-30.4	Ant1
^	3987.267M	54.4	+9.9	+1.1	-107.0	+0.0	-41.6	-40.0	-1.6	Ant1
26	3994.274M Ave	24.8	+9.9	+1.1	-107.0	+0.0	-71.2	-40.0	-31.2	Ant1
^	3994.274M	57.5	+9.9	+1.1	-107.0	+0.0	-38.5	-40.0	+1.5	Ant1
28	4001.281M Ave	24.1	+9.9	+1.1	-107.0	+0.0	-71.9	-40.0	-31.9	Ant1
^	4001.281M	56.1	+9.9	+1.1	-107.0	+0.0	-39.9	-40.0	+0.1	Ant1
30	4013.293M Ave	23.1	+9.9	+1.1	-107.0	+0.0	-72.9	-40.0	-32.9	Ant1
^	4013.293M	54.0	+9.9	+1.1	-107.0	+0.0	-42.0	-40.0	-2.0	Ant1
32	4208.488M Ave	21.7	+9.9	+1.1	-107.0	+0.0	-74.3	-40.0	-34.3	Ant1
^	4208.488M	53.0	+9.9	+1.1	-107.0	+0.0	-43.0	-40.0	-3.0	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	15:35:34
Tested By:	Benny Lovan	Sequence#:	29
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

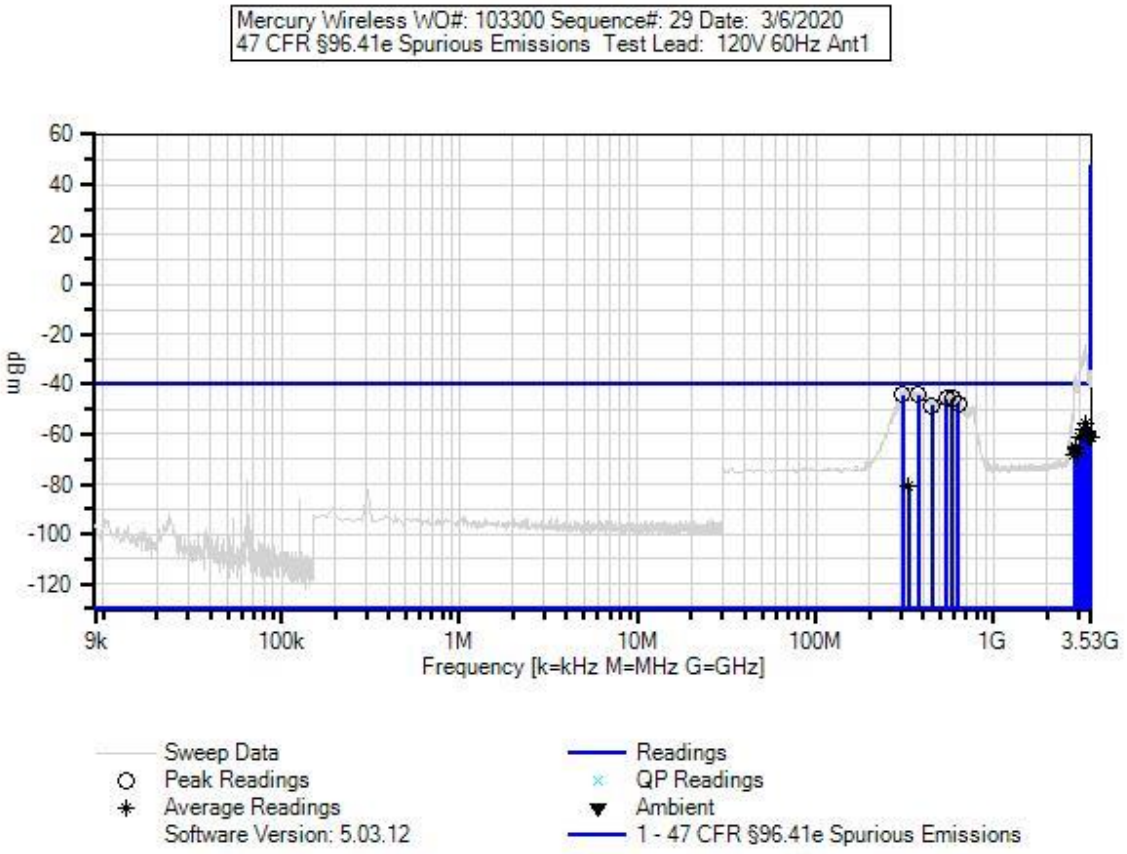
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3625 MHz
Modulation: QAM64
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	309.000M	52.7	+9.9	+0.3	-107.0		+0.0	-44.1	-40.0	-4.1	Ant1
2	378.500M	52.6	+9.9	+0.3	-107.0		+0.0	-44.2	-40.0	-4.2	Ant1
3	541.500M	51.0	+9.9	+0.4	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
4	584.000M	50.9	+9.9	+0.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
5	630.500M	49.1	+9.9	+0.4	-107.0		+0.0	-47.6	-40.0	-7.6	Ant1
6	451.000M	48.1	+9.9	+0.4	-107.0		+0.0	-48.6	-40.0	-8.6	Ant1
7	3260.129M Ave	40.6	+9.9	+1.0	-107.0		+0.0	-55.5	-40.0	-15.5	Ant1
^	3260.129M	71.7	+9.9	+1.0	-107.0		+0.0	-24.4	-40.0	+15.6	Ant1
9	3290.010M Ave	40.6	+9.9	+1.0	-107.0		+0.0	-55.5	-40.0	-15.5	Ant1
^	3290.010M	68.7	+9.9	+1.0	-107.0		+0.0	-27.4	-40.0	+12.6	Ant1
11	3166.410M Ave	38.5	+9.9	+0.9	-107.0		+0.0	-57.7	-40.0	-17.7	Ant1
^	3166.410M	64.9	+9.9	+0.9	-107.0		+0.0	-31.3	-40.0	+8.7	Ant1
13	3336.360M Ave	37.1	+9.9	+1.0	-107.0		+0.0	-59.0	-40.0	-19.0	Ant1
^	3336.360M	61.6	+9.9	+1.0	-107.0		+0.0	-34.5	-40.0	+5.5	Ant1
15	3393.010M Ave	35.4	+9.9	+1.0	-107.0		+0.0	-60.7	-40.0	-20.7	Ant1
^	3393.010M	61.1	+9.9	+1.0	-107.0		+0.0	-35.0	-40.0	+5.0	Ant1
17	3455.840M Ave	35.2	+9.9	+1.0	-107.0		+0.0	-60.9	-40.0	-20.9	Ant1
^	3455.840M	58.9	+9.9	+1.0	-107.0		+0.0	-37.2	-40.0	+2.8	Ant1
19	3501.160M Ave	34.9	+9.9	+1.0	-107.0		+0.0	-61.2	-40.0	-21.2	Ant1
^	3501.160M	57.0	+9.9	+1.0	-107.0		+0.0	-39.1	-40.0	+0.9	Ant1
21	3054.140M Ave	34.9	+9.9	+0.9	-107.0		+0.0	-61.3	-40.0	-21.3	Ant1
^	3054.140M	61.1	+9.9	+0.9	-107.0		+0.0	-35.1	-40.0	+4.9	Ant1
23	2859.470M Ave	30.9	+9.9	+0.9	-107.0		+0.0	-65.3	-40.0	-25.3	Ant1
^	2859.470M	58.7	+9.9	+0.9	-107.0		+0.0	-37.5	-40.0	+2.5	Ant1

25	2883.160M Ave	30.1	+9.9	+0.9	-107.0	+0.0	-66.1	-40.0	-26.1	Ant1
^	2883.160M	55.9	+9.9	+0.9	-107.0	+0.0	-40.3	-40.0	-0.3	Ant1
27	2943.930M Ave	28.7	+9.9	+0.9	-107.0	+0.0	-67.5	-40.0	-27.5	Ant1
^	2943.930M	53.5	+9.9	+0.9	-107.0	+0.0	-42.7	-40.0	-2.7	Ant1
29	2837.840M Ave	28.3	+9.9	+0.9	-107.0	+0.0	-67.9	-40.0	-27.9	Ant1
^	2837.840M	55.7	+9.9	+0.9	-107.0	+0.0	-40.5	-40.0	-0.5	Ant1
31	333.000M Ave	16.0	+9.9	+0.3	-107.0	+0.0	-80.8	-40.0	-40.8	Ant1
^	333.000M	53.3	+9.9	+0.3	-107.0	+0.0	-43.5	-40.0	-3.5	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	15:47:18
Tested By:	Benny Lovan	Sequence#:	30
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3625 MHz
Modulation: QAM64
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	36914.538 M	48.3	+10.4	+3.4	-107.0		+0.0	-44.9	-40.0	-4.9	Ant1
2	36790.544 M	48.2	+10.4	+3.4	-107.0		+0.0	-45.0	-40.0	-5.0	Ant1
3	4020.300M	50.8	+9.9	+1.1	-107.0		+0.0	-45.2	-40.0	-5.2	Ant1
4	4032.312M	50.7	+9.9	+1.1	-107.0		+0.0	-45.3	-40.0	-5.3	Ant1
5	36664.912 M	47.9	+10.4	+3.4	-107.0		+0.0	-45.3	-40.0	-5.3	Ant1
6	4159.439M	50.5	+9.9	+1.1	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
7	36502.750 M	47.7	+10.5	+3.3	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
8	4169.449M	50.4	+9.9	+1.1	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
9	36825.618 M	47.5	+10.4	+3.4	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
10	36563.811 M	47.5	+10.5	+3.3	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
11	4149.429M	50.2	+9.9	+1.1	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
12	36835.745 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
13	4251.531M	50.0	+9.9	+1.1	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
14	36874.277 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
15	36861.433 M	47.1	+10.4	+3.4	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
16	36872.548 M	47.1	+10.4	+3.4	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
17	4042.322M	49.8	+9.9	+1.1	-107.0		+0.0	-46.2	-40.0	-6.2	Ant1
18	36954.552 M	47.0	+10.4	+3.4	-107.0		+0.0	-46.2	-40.0	-6.2	Ant1

19	3803.083M Ave	32.2	+9.9	+1.0	-107.0	+0.0	-63.9	-40.0	-23.9	Ant1
^	3803.083M	59.8	+9.9	+1.0	-107.0	+0.0	-36.3	-40.0	+3.7	Ant1
21	3910.190M Ave	30.9	+9.9	+1.0	-107.0	+0.0	-65.2	-40.0	-25.2	Ant1
^	3910.190M	63.3	+9.9	+1.0	-107.0	+0.0	-32.8	-40.0	+7.2	Ant1
23	3897.177M Ave	30.8	+9.9	+1.0	-107.0	+0.0	-65.3	-40.0	-25.3	Ant1
^	3897.177M	63.9	+9.9	+1.0	-107.0	+0.0	-32.2	-40.0	+7.8	Ant1
25	3921.201M Ave	30.7	+9.9	+1.0	-107.0	+0.0	-65.4	-40.0	-25.4	Ant1
^	3921.201M	64.1	+9.9	+1.0	-107.0	+0.0	-32.0	-40.0	+8.0	Ant1
27	3931.211M Ave	29.9	+9.9	+1.1	-107.0	+0.0	-66.1	-40.0	-26.1	Ant1
^	3931.211M	63.0	+9.9	+1.1	-107.0	+0.0	-33.0	-40.0	+7.0	Ant1
29	7252.529M Ave	28.0	+10.0	+1.5	-107.0	+0.0	-67.5	-40.0	-27.5	Ant1
^	7252.529M	53.8	+10.0	+1.5	-107.0	+0.0	-41.7	-40.0	-1.7	Ant1
31	7247.524M Ave	27.8	+10.0	+1.5	-107.0	+0.0	-67.7	-40.0	-27.7	Ant1
^	7247.524M	53.5	+10.0	+1.5	-107.0	+0.0	-42.0	-40.0	-2.0	Ant1
33	3976.256M Ave	26.3	+9.9	+1.1	-107.0	+0.0	-69.7	-40.0	-29.7	Ant1
^	3976.256M	57.7	+9.9	+1.1	-107.0	+0.0	-38.3	-40.0	+1.7	Ant1
35	3996.276M Ave	24.7	+9.9	+1.1	-107.0	+0.0	-71.3	-40.0	-31.3	Ant1
^	3996.276M	56.5	+9.9	+1.1	-107.0	+0.0	-39.5	-40.0	+0.5	Ant1
37	4018.298M Ave	22.7	+9.9	+1.1	-107.0	+0.0	-73.3	-40.0	-33.3	Ant1
^	4018.298M	53.8	+9.9	+1.1	-107.0	+0.0	-42.2	-40.0	-2.2	Ant1
39	4028.308M Ave	21.7	+9.9	+1.1	-107.0	+0.0	-74.3	-40.0	-34.3	Ant1
^	4028.308M	54.0	+9.9	+1.1	-107.0	+0.0	-42.0	-40.0	-2.0	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	16:09:23
Tested By:	Benny Lovan	Sequence#:	31
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

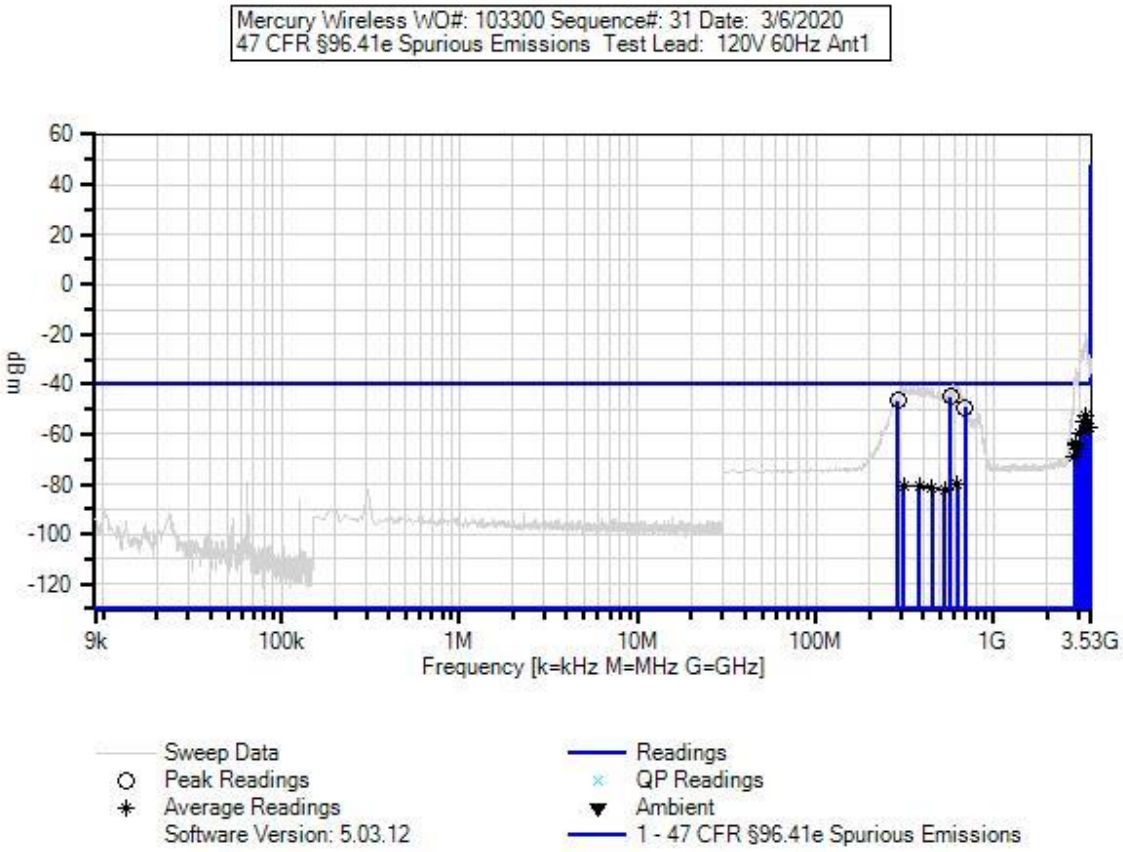
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3696.5 MHz
Modulation: QPSK
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	572.000M	51.6	+9.9	+0.4	-107.0		+0.0	-45.1	-40.0	-5.1	Ant1
2	289.000M	50.3	+9.9	+0.3	-107.0		+0.0	-46.5	-40.0	-6.5	Ant1
3	692.500M	47.5	+9.9	+0.5	-107.0		+0.0	-49.1	-40.0	-9.1	Ant1
4	3292.070M Ave	43.8	+9.9	+1.0	-107.0		+0.0	-52.3	-40.0	-12.3	Ant1
^	3292.070M	71.1	+9.9	+1.0	-107.0		+0.0	-25.0	-40.0	+15.0	Ant1
6	3250.686M Ave	43.3	+9.9	+1.0	-107.0		+0.0	-52.8	-40.0	-12.8	Ant1
^	3250.686M	76.0	+9.9	+1.0	-107.0		+0.0	-20.1	-40.0	+19.9	Ant1
8	3181.860M Ave	41.1	+9.9	+0.9	-107.0		+0.0	-55.1	-40.0	-15.1	Ant1
^	3181.860M	67.3	+9.9	+0.9	-107.0		+0.0	-28.9	-40.0	+11.1	Ant1
10	3483.650M Ave	39.0	+9.9	+1.0	-107.0		+0.0	-57.1	-40.0	-17.1	Ant1
^	3483.650M	64.1	+9.9	+1.0	-107.0		+0.0	-32.0	-40.0	+8.0	Ant1
12	3395.070M Ave	38.8	+9.9	+1.0	-107.0		+0.0	-57.3	-40.0	-17.3	Ant1
^	3395.070M	66.0	+9.9	+1.0	-107.0		+0.0	-30.1	-40.0	+9.9	Ant1
14	3455.840M Ave	38.6	+9.9	+1.0	-107.0		+0.0	-57.5	-40.0	-17.5	Ant1
^	3455.840M	62.3	+9.9	+1.0	-107.0		+0.0	-33.8	-40.0	+6.2	Ant1
16	3048.990M Ave	36.8	+9.9	+0.9	-107.0		+0.0	-59.4	-40.0	-19.4	Ant1
^	3048.990M	63.1	+9.9	+0.9	-107.0		+0.0	-33.1	-40.0	+6.9	Ant1
18	2867.710M Ave	32.6	+9.9	+0.9	-107.0		+0.0	-63.6	-40.0	-23.6	Ant1
^	2867.710M	59.0	+9.9	+0.9	-107.0		+0.0	-37.2	-40.0	+2.8	Ant1
20	2891.400M Ave	31.8	+9.9	+0.9	-107.0		+0.0	-64.4	-40.0	-24.4	Ant1
^	2891.400M	58.0	+9.9	+0.9	-107.0		+0.0	-38.2	-40.0	+1.8	Ant1
22	2945.990M Ave	30.5	+9.9	+0.9	-107.0		+0.0	-65.7	-40.0	-25.7	Ant1
^	2945.990M	57.9	+9.9	+0.9	-107.0		+0.0	-38.3	-40.0	+1.7	Ant1

24	2827.540M Ave	27.5	+9.9	+0.9	-107.0	+0.0	-68.7	-40.0	-28.7	Ant1
^	2827.540M	53.2	+9.9	+0.9	-107.0	+0.0	-43.0	-40.0	-3.0	Ant1
26	623.000M Ave	16.9	+9.9	+0.4	-107.0	+0.0	-79.8	-40.0	-39.8	Ant1
^	623.000M	54.5	+9.9	+0.4	-107.0	+0.0	-42.2	-40.0	-2.2	Ant1
28	382.500M Ave	16.1	+9.9	+0.3	-107.0	+0.0	-80.7	-40.0	-40.7	Ant1
^	382.500M	54.9	+9.9	+0.3	-107.0	+0.0	-41.9	-40.0	-1.9	Ant1
30	311.500M Ave	16.0	+9.9	+0.3	-107.0	+0.0	-80.8	-40.0	-40.8	Ant1
^	311.500M	54.1	+9.9	+0.3	-107.0	+0.0	-42.7	-40.0	-2.7	Ant1
32	449.500M Ave	15.3	+9.9	+0.4	-107.0	+0.0	-81.4	-40.0	-41.4	Ant1
^	449.500M	54.4	+9.9	+0.4	-107.0	+0.0	-42.3	-40.0	-2.3	Ant1
34	526.500M Ave	14.1	+9.9	+0.4	-107.0	+0.0	-82.6	-40.0	-42.6	Ant1
^	526.500M	53.7	+9.9	+0.4	-107.0	+0.0	-43.0	-40.0	-3.0	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	16:25:14
Tested By:	Benny Lovan	Sequence#:	32
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

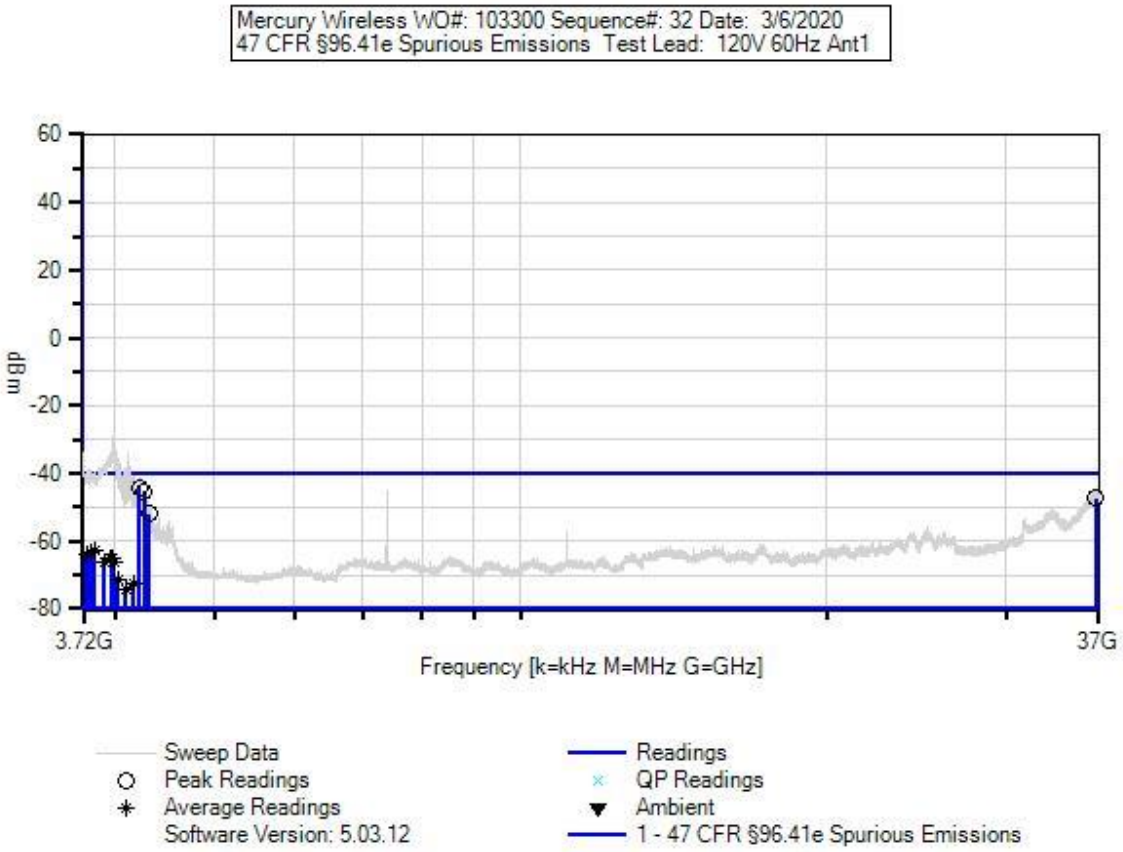
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3696.5 MHz
Modulation: QPSK
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	4221.760M	51.9	+9.9	+1.1	-107.0		+0.0	-44.1	-40.0	-4.1	Ant1
2	4269.120M	50.6	+9.9	+1.1	-107.0		+0.0	-45.4	-40.0	-5.4	Ant1
3	36737.000M	45.9	+10.4	+3.4	-107.0		+0.0	-47.3	-40.0	-7.3	Ant1
4	4312.640M	44.1	+9.9	+1.1	-107.0		+0.0	-51.9	-40.0	-11.9	Ant1
5	3816.000M Ave	33.3	+9.9	+1.0	-107.0		+0.0	-62.8	-40.0	-22.8	Ant1
^	3816.000M	55.4	+9.9	+1.0	-107.0		+0.0	-40.7	-40.0	-0.7	Ant1
7	3782.720M Ave	32.6	+9.9	+1.0	-107.0		+0.0	-63.5	-40.0	-23.5	Ant1
^	3782.720M	54.8	+9.9	+1.0	-107.0		+0.0	-41.3	-40.0	-1.3	Ant1
9	3748.160M Ave	32.4	+9.9	+1.0	-107.0		+0.0	-63.7	-40.0	-23.7	Ant1
^	3748.160M	55.2	+9.9	+1.0	-107.0		+0.0	-40.9	-40.0	-0.9	Ant1
11	3964.480M Ave	31.0	+9.9	+1.1	-107.0		+0.0	-65.0	-40.0	-25.0	Ant1
^	3964.480M	60.3	+9.9	+1.1	-107.0		+0.0	-35.7	-40.0	+4.3	Ant1
13	3978.258M Ave	30.9	+9.9	+1.1	-107.0		+0.0	-65.1	-40.0	-25.1	Ant1
^	3978.258M	66.9	+9.9	+1.1	-107.0		+0.0	-29.1	-40.0	+10.9	Ant1
15	3900.480M Ave	30.2	+9.9	+1.0	-107.0		+0.0	-65.9	-40.0	-25.9	Ant1
^	3900.480M	59.0	+9.9	+1.0	-107.0		+0.0	-37.1	-40.0	+2.9	Ant1
17	3991.360M Ave	29.7	+9.9	+1.1	-107.0		+0.0	-66.3	-40.0	-26.3	Ant1
^	3991.360M	65.0	+9.9	+1.1	-107.0		+0.0	-31.0	-40.0	+9.0	Ant1
19	4023.360M Ave	24.5	+9.9	+1.1	-107.0		+0.0	-71.5	-40.0	-31.5	Ant1
^	4023.360M	53.1	+9.9	+1.1	-107.0		+0.0	-42.9	-40.0	-2.9	Ant1
21	4164.160M Ave	23.3	+9.9	+1.1	-107.0		+0.0	-72.7	-40.0	-32.7	Ant1
^	4164.160M	57.8	+9.9	+1.1	-107.0		+0.0	-38.2	-40.0	+1.8	Ant1
23	4089.920M Ave	21.7	+9.9	+1.1	-107.0		+0.0	-74.3	-40.0	-34.3	Ant1
^	4089.920M	53.5	+9.9	+1.1	-107.0		+0.0	-42.5	-40.0	-2.5	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	16:34:56
Tested By:	Benny Lovan	Sequence#:	33
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

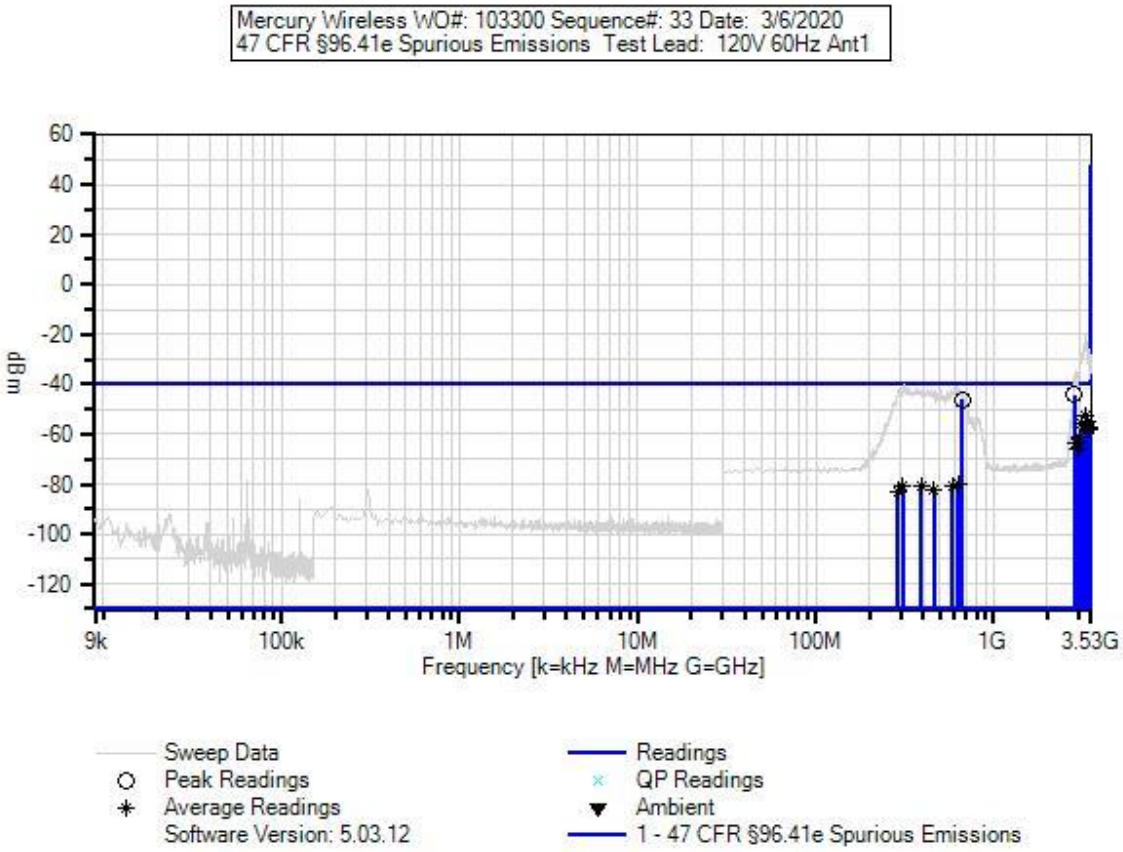
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3696.5 MHz
Modulation: QAM16
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	2830.630M	52.1	+9.9	+0.9	-107.0		+0.0	-44.1	-40.0	-4.1	Ant1
2	663.500M	50.6	+9.9	+0.5	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
3	3283.985M Ave	43.8	+9.9	+1.0	-107.0		+0.0	-52.3	-40.0	-12.3	Ant1
^	3283.985M	75.7	+9.9	+1.0	-107.0		+0.0	-20.4	-40.0	+19.6	Ant1
5	3294.130M Ave	43.7	+9.9	+1.0	-107.0		+0.0	-52.4	-40.0	-12.4	Ant1
^	3294.130M	71.5	+9.9	+1.0	-107.0		+0.0	-24.6	-40.0	+15.4	Ant1
7	3375.500M Ave	40.8	+9.9	+1.0	-107.0		+0.0	-55.3	-40.0	-15.3	Ant1
^	3375.500M	68.6	+9.9	+1.0	-107.0		+0.0	-27.5	-40.0	+12.5	Ant1
9	3139.630M Ave	40.1	+9.9	+0.9	-107.0		+0.0	-56.1	-40.0	-16.1	Ant1
^	3139.630M	67.0	+9.9	+0.9	-107.0		+0.0	-29.2	-40.0	+10.8	Ant1
11	3479.530M Ave	39.2	+9.9	+1.0	-107.0		+0.0	-56.9	-40.0	-16.9	Ant1
^	3479.530M	64.7	+9.9	+1.0	-107.0		+0.0	-31.4	-40.0	+8.6	Ant1
13	3431.120M Ave	37.7	+9.9	+1.0	-107.0		+0.0	-58.4	-40.0	-18.4	Ant1
^	3431.120M	60.1	+9.9	+1.0	-107.0		+0.0	-36.0	-40.0	+4.0	Ant1
15	3023.240M Ave	34.9	+9.9	+0.9	-107.0		+0.0	-61.3	-40.0	-21.3	Ant1
^	3023.240M	59.9	+9.9	+0.9	-107.0		+0.0	-36.3	-40.0	+3.7	Ant1
17	2870.800M Ave	32.3	+9.9	+0.9	-107.0		+0.0	-63.9	-40.0	-23.9	Ant1
^	2870.800M	60.3	+9.9	+0.9	-107.0		+0.0	-35.9	-40.0	+4.1	Ant1
19	2934.660M Ave	30.5	+9.9	+0.9	-107.0		+0.0	-65.7	-40.0	-25.7	Ant1
^	2934.660M	57.6	+9.9	+0.9	-107.0		+0.0	-38.6	-40.0	+1.4	Ant1
21	631.000M Ave	16.7	+9.9	+0.4	-107.0		+0.0	-80.0	-40.0	-40.0	Ant1
^	631.000M	55.6	+9.9	+0.4	-107.0		+0.0	-41.1	-40.0	-1.1	Ant1
23	583.500M Ave	15.9	+9.9	+0.4	-107.0		+0.0	-80.8	-40.0	-40.8	Ant1
^	583.500M	53.2	+9.9	+0.4	-107.0		+0.0	-43.5	-40.0	-3.5	Ant1

25	390.000M Ave	15.9	+9.9	+0.3	-107.0	+0.0	-80.9	-40.0	-40.9	Ant1
^	390.000M	53.7	+9.9	+0.3	-107.0	+0.0	-43.1	-40.0	-3.1	Ant1
27	308.500M Ave	15.8	+9.9	+0.3	-107.0	+0.0	-81.0	-40.0	-41.0	Ant1
^	308.500M	55.4	+9.9	+0.3	-107.0	+0.0	-41.4	-40.0	-1.4	Ant1
29	460.500M Ave	14.6	+9.9	+0.4	-107.0	+0.0	-82.1	-40.0	-42.1	Ant1
^	460.500M	53.8	+9.9	+0.4	-107.0	+0.0	-42.9	-40.0	-2.9	Ant1
31	290.500M Ave	13.9	+9.9	+0.3	-107.0	+0.0	-82.9	-40.0	-42.9	Ant1
^	290.500M	53.6	+9.9	+0.3	-107.0	+0.0	-43.2	-40.0	-3.2	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	16:47:52
Tested By:	Benny Lovan	Sequence#:	34
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

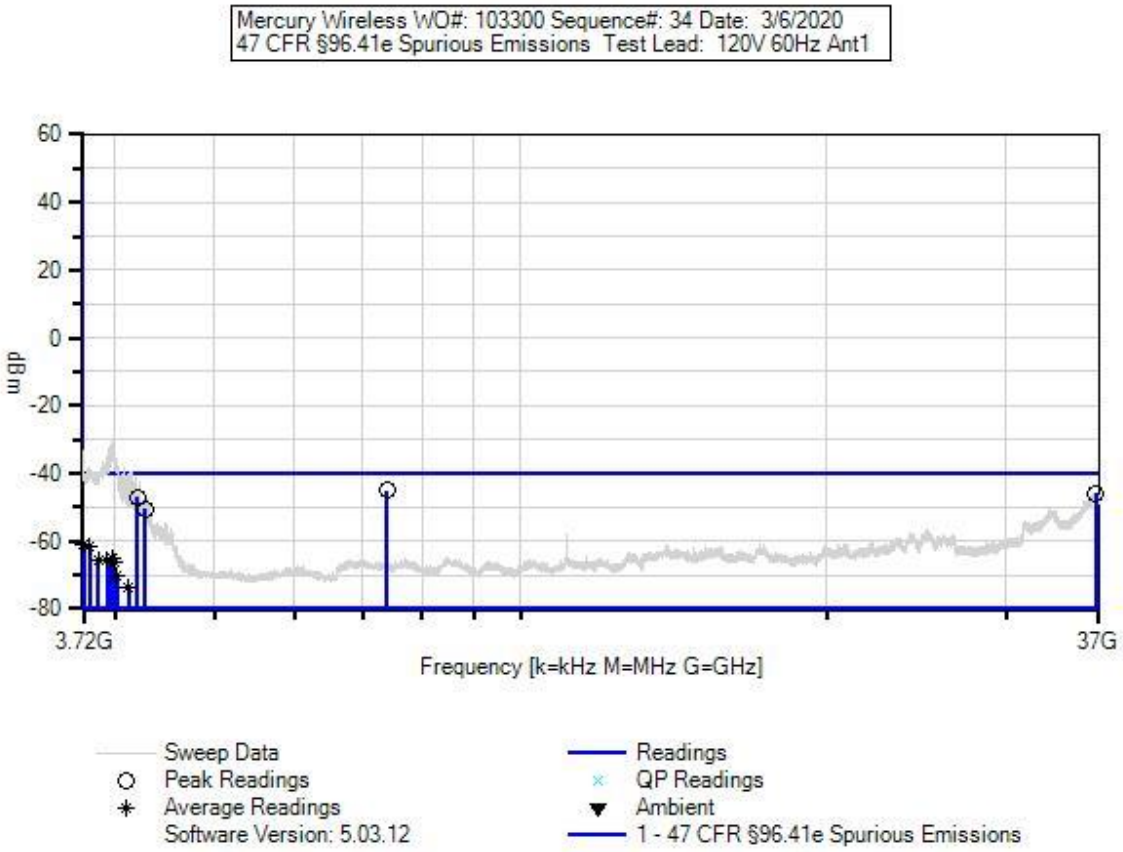
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3696.5 MHz
Modulation: QAM16
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	7390.000M	50.5	+10.0	+1.5	-107.0		+0.0	-45.0	-40.0	-5.0	Ant1
2	36736.000 M	47.4	+10.4	+3.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
3	4201.280M	49.1	+9.9	+1.1	-107.0		+0.0	-46.9	-40.0	-6.9	Ant1
4	4276.800M	45.5	+9.9	+1.1	-107.0		+0.0	-50.5	-40.0	-10.5	Ant1
5	3721.280M Ave	35.3	+9.9	+1.0	-107.0		+0.0	-60.8	-40.0	-20.8	Ant1
^	3721.280M	64.7	+9.9	+1.0	-107.0		+0.0	-31.4	-40.0	+8.6	Ant1
7	3775.040M Ave	34.4	+9.9	+1.0	-107.0		+0.0	-61.7	-40.0	-21.7	Ant1
^	3775.040M	59.2	+9.9	+1.0	-107.0		+0.0	-36.9	-40.0	+3.1	Ant1
9	3969.249M Ave	31.1	+9.9	+1.1	-107.0		+0.0	-64.9	-40.0	-24.9	Ant1
^	3969.249M	65.7	+9.9	+1.1	-107.0		+0.0	-30.3	-40.0	+9.7	Ant1
11	3848.000M Ave	30.6	+9.9	+1.0	-107.0		+0.0	-65.5	-40.0	-25.5	Ant1
^	3848.000M	54.8	+9.9	+1.0	-107.0		+0.0	-41.3	-40.0	-1.3	Ant1
13	3927.360M Ave	30.3	+9.9	+1.1	-107.0		+0.0	-65.7	-40.0	-25.7	Ant1
^	3927.360M	58.2	+9.9	+1.1	-107.0		+0.0	-37.8	-40.0	+2.2	Ant1
15	3987.520M Ave	30.0	+9.9	+1.1	-107.0		+0.0	-66.0	-40.0	-26.0	Ant1
^	3987.520M	60.2	+9.9	+1.1	-107.0		+0.0	-35.8	-40.0	+4.2	Ant1
17	4016.960M Ave	25.7	+9.9	+1.1	-107.0		+0.0	-70.3	-40.0	-30.3	Ant1
^	4016.960M	56.0	+9.9	+1.1	-107.0		+0.0	-40.0	-40.0	+0.0	Ant1
19	4123.200M Ave	22.5	+9.9	+1.1	-107.0		+0.0	-73.5	-40.0	-33.5	Ant1
^	4123.200M	57.8	+9.9	+1.1	-107.0		+0.0	-38.2	-40.0	+1.8	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	17:00:25
Tested By:	Benny Lovan	Sequence#:	35
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

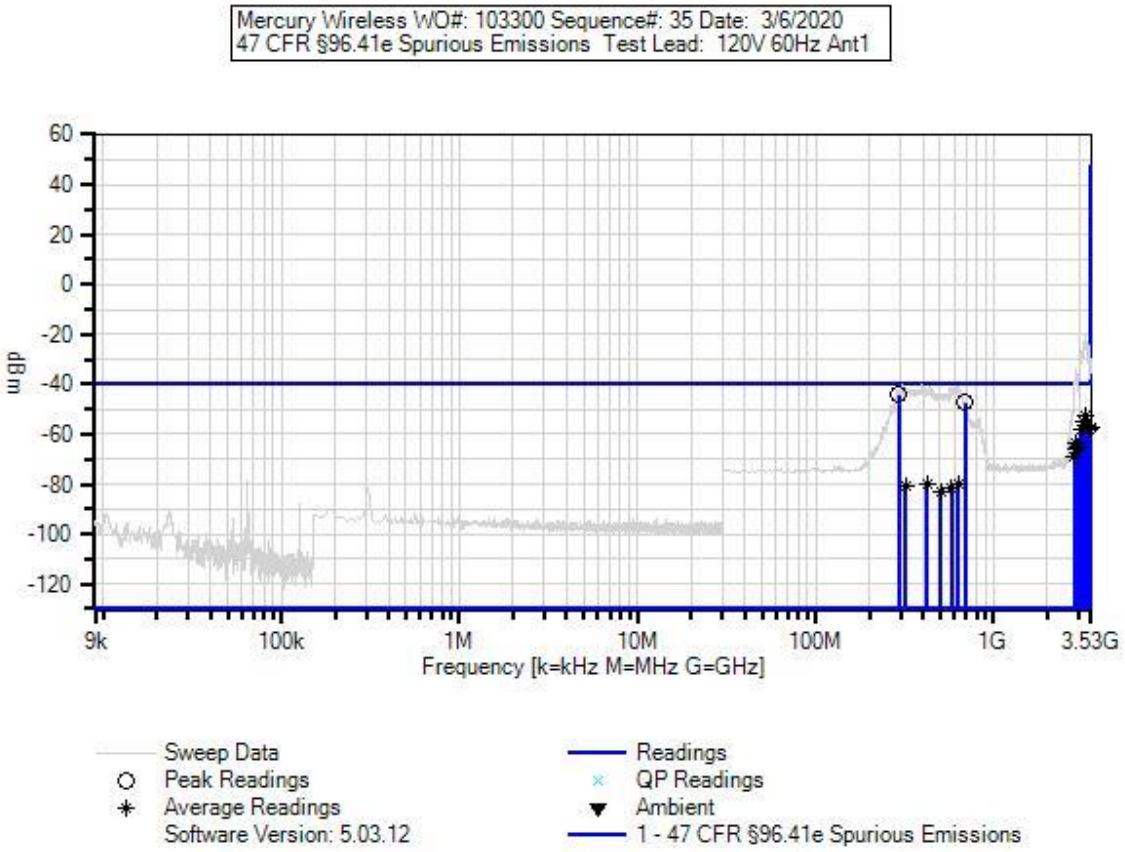
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3696.5 MHz
Modulation: QAM64
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	293.000M	52.6	+9.9	+0.3	-107.0		+0.0	-44.2	-40.0	-4.2	Ant1
2	690.000M	49.1	+9.9	+0.5	-107.0		+0.0	-47.5	-40.0	-7.5	Ant1
3	3296.190M Ave	43.8	+9.9	+1.0	-107.0		+0.0	-52.3	-40.0	-12.3	Ant1
^	3296.190M	72.3	+9.9	+1.0	-107.0		+0.0	-23.8	-40.0	+16.2	Ant1
5	3268.081M Ave	43.7	+9.9	+1.0	-107.0		+0.0	-52.4	-40.0	-12.4	Ant1
^	3268.081M	76.0	+9.9	+1.0	-107.0		+0.0	-20.1	-40.0	+19.9	Ant1
7	3189.070M Ave	41.3	+9.9	+0.9	-107.0		+0.0	-54.9	-40.0	-14.9	Ant1
^	3189.070M	68.6	+9.9	+0.9	-107.0		+0.0	-27.6	-40.0	+12.4	Ant1
9	3386.830M Ave	39.7	+9.9	+1.0	-107.0		+0.0	-56.4	-40.0	-16.4	Ant1
^	3386.830M	70.7	+9.9	+1.0	-107.0		+0.0	-25.4	-40.0	+14.6	Ant1
11	3486.740M Ave	39.2	+9.9	+1.0	-107.0		+0.0	-56.9	-40.0	-16.9	Ant1
^	3486.740M	64.2	+9.9	+1.0	-107.0		+0.0	-31.9	-40.0	+8.1	Ant1
13	3075.770M Ave	38.5	+9.9	+0.9	-107.0		+0.0	-57.7	-40.0	-17.7	Ant1
^	3075.770M	64.5	+9.9	+0.9	-107.0		+0.0	-31.7	-40.0	+8.3	Ant1
15	3437.300M Ave	38.0	+9.9	+1.0	-107.0		+0.0	-58.1	-40.0	-18.1	Ant1
^	3437.300M	61.0	+9.9	+1.0	-107.0		+0.0	-35.1	-40.0	+4.9	Ant1
17	2863.590M Ave	32.4	+9.9	+0.9	-107.0		+0.0	-63.8	-40.0	-23.8	Ant1
^	2863.590M	58.8	+9.9	+0.9	-107.0		+0.0	-37.4	-40.0	+2.6	Ant1
19	2977.920M Ave	31.4	+9.9	+0.9	-107.0		+0.0	-64.8	-40.0	-24.8	Ant1
^	2977.920M	56.9	+9.9	+0.9	-107.0		+0.0	-39.3	-40.0	+0.7	Ant1
21	2914.060M Ave	30.6	+9.9	+0.9	-107.0		+0.0	-65.6	-40.0	-25.6	Ant1
^	2914.060M	56.0	+9.9	+0.9	-107.0		+0.0	-40.2	-40.0	-0.2	Ant1
23	2824.450M Ave	27.3	+9.9	+0.9	-107.0		+0.0	-68.9	-40.0	-28.9	Ant1
^	2824.450M	52.4	+9.9	+0.9	-107.0		+0.0	-43.8	-40.0	-3.8	Ant1

25	420.000M Ave	16.9	+9.9	+0.4	-107.0	+0.0	-79.8	-40.0	-39.8	Ant1
^	420.000M	53.6	+9.9	+0.4	-107.0	+0.0	-43.1	-40.0	-3.1	Ant1
27	630.500M Ave	16.7	+9.9	+0.4	-107.0	+0.0	-80.0	-40.0	-40.0	Ant1
^	630.500M	54.2	+9.9	+0.4	-107.0	+0.0	-42.5	-40.0	-2.5	Ant1
29	319.000M Ave	16.1	+9.9	+0.3	-107.0	+0.0	-80.7	-40.0	-40.7	Ant1
^	319.000M	55.4	+9.9	+0.3	-107.0	+0.0	-41.4	-40.0	-1.4	Ant1
31	578.000M Ave	15.5	+9.9	+0.4	-107.0	+0.0	-81.2	-40.0	-41.2	Ant1
^	578.000M	53.0	+9.9	+0.4	-107.0	+0.0	-43.7	-40.0	-3.7	Ant1
33	506.500M Ave	13.9	+9.9	+0.4	-107.0	+0.0	-82.8	-40.0	-42.8	Ant1
^	506.500M	53.4	+9.9	+0.4	-107.0	+0.0	-43.3	-40.0	-3.3	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/6/2020
Test Type:	**Conducted Emissions**	Time:	17:29:36
Tested By:	Benny Lovan	Sequence#:	36
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

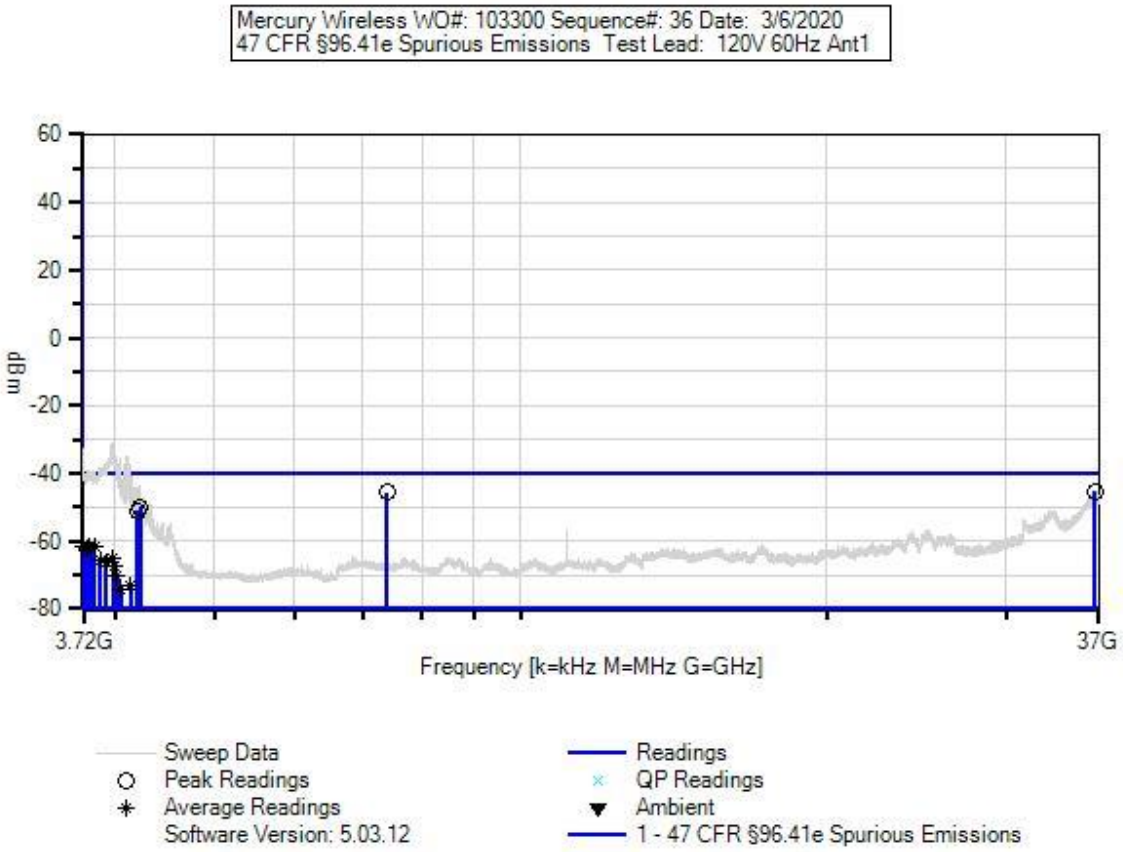
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3696.5 MHz
Modulation: QAM64
Channel Bandwidth: 7MHz
Output Power Software Setting: 32

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	36617.000 M	47.9	+10.5	+3.3	-107.0		+0.0	-45.3	-40.0	-5.3	Ant1
2	7395.000M	50.0	+10.0	+1.5	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
3	4230.900M	46.2	+9.9	+1.1	-107.0		+0.0	-49.8	-40.0	-9.8	Ant1
4	4202.820M	45.0	+9.9	+1.1	-107.0		+0.0	-51.0	-40.0	-11.0	Ant1
5	3722.340M Ave	34.6	+9.9	+1.0	-107.0		+0.0	-61.5	-40.0	-21.5	Ant1
^	3722.340M	58.6	+9.9	+1.0	-107.0		+0.0	-37.5	-40.0	+2.5	Ant1
7	3776.940M Ave	34.4	+9.9	+1.0	-107.0		+0.0	-61.7	-40.0	-21.7	Ant1
^	3776.940M	59.3	+9.9	+1.0	-107.0		+0.0	-36.8	-40.0	+3.2	Ant1
9	3816.720M Ave	34.3	+9.9	+1.0	-107.0		+0.0	-61.8	-40.0	-21.8	Ant1
^	3816.720M	56.3	+9.9	+1.0	-107.0		+0.0	-39.8	-40.0	+0.2	Ant1
11	3757.440M Ave	34.1	+9.9	+1.0	-107.0		+0.0	-62.0	-40.0	-22.0	Ant1
^	3757.440M	56.7	+9.9	+1.0	-107.0		+0.0	-39.4	-40.0	+0.6	Ant1
13	3975.060M Ave	30.8	+9.9	+1.1	-107.0		+0.0	-65.2	-40.0	-25.2	Ant1
^	3975.060M	63.3	+9.9	+1.1	-107.0		+0.0	-32.7	-40.0	+7.3	Ant1
15	3866.640M Ave	30.6	+9.9	+1.0	-107.0		+0.0	-65.5	-40.0	-25.5	Ant1
^	3866.640M	57.5	+9.9	+1.0	-107.0		+0.0	-38.6	-40.0	+1.4	Ant1
17	3915.780M Ave	30.1	+9.9	+1.0	-107.0		+0.0	-66.0	-40.0	-26.0	Ant1
^	3915.780M	58.1	+9.9	+1.0	-107.0		+0.0	-38.0	-40.0	+2.0	Ant1
19	3996.276M Ave	28.8	+9.9	+1.1	-107.0		+0.0	-67.2	-40.0	-27.2	Ant1
^	3996.276M	66.4	+9.9	+1.1	-107.0		+0.0	-29.6	-40.0	+10.4	Ant1

21	4014.840M Ave	25.9	+9.9	+1.1	-107.0	+0.0	-70.1	-40.0	-30.1	Ant1
^	4014.840M	59.3	+9.9	+1.1	-107.0	+0.0	-36.7	-40.0	+3.3	Ant1
23	4138.860M Ave	23.0	+9.9	+1.1	-107.0	+0.0	-73.0	-40.0	-33.0	Ant1
^	4138.860M	56.7	+9.9	+1.1	-107.0	+0.0	-39.3	-40.0	+0.7	Ant1
25	4052.280M Ave	21.9	+9.9	+1.1	-107.0	+0.0	-74.1	-40.0	-34.1	Ant1
^	4052.280M	54.1	+9.9	+1.1	-107.0	+0.0	-41.9	-40.0	-1.9	Ant1

Channel Bandwidth 10MHz

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/5/2020
Test Type:	**Conducted Emissions**	Time:	14:43:19
Tested By:	Benny Lovan	Sequence#:	1
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9k - 3.53G

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

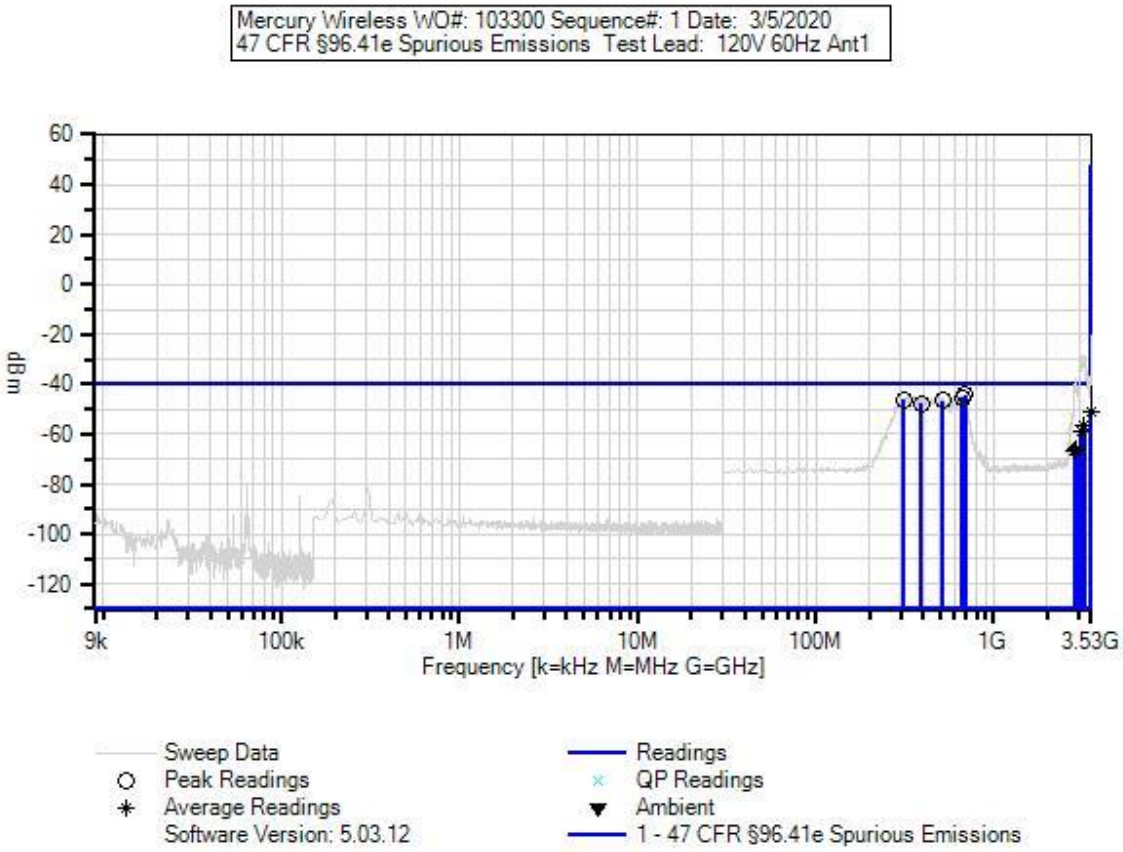
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3555 MHz
Modulation: QPSK
Channel Bandwidth: 10MHz
Output Power Software Setting: 33

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	692.850M	52.3	+9.9	+0.5	-107.0		+0.0	-44.3	-40.0	-4.3	Ant1
2	666.300M	51.4	+9.9	+0.5	-107.0		+0.0	-45.2	-40.0	-5.2	Ant1
3	311.700M	50.6	+9.9	+0.3	-107.0		+0.0	-46.2	-40.0	-6.2	Ant1
4	516.450M	50.1	+9.9	+0.4	-107.0		+0.0	-46.6	-40.0	-6.6	Ant1
5	393.600M	49.1	+9.9	+0.4	-107.0		+0.0	-47.6	-40.0	-7.6	Ant1
6	3529.503M Ave	45.4	+9.9	+1.0	-107.0		+0.0	-50.7	-40.0	-10.7	Ant1
^	3529.503M	74.6	+9.9	+1.0	-107.0		+0.0	-21.5	-40.0	+18.5	Ant1
8	3208.938M Ave	39.6	+9.9	+0.9	-107.0		+0.0	-56.6	-40.0	-16.6	Ant1
^	3208.938M	67.8	+9.9	+0.9	-107.0		+0.0	-28.4	-40.0	+11.6	Ant1
10	3092.640M Ave	37.6	+9.9	+0.9	-107.0		+0.0	-58.6	-40.0	-18.6	Ant1
^	3092.640M	65.0	+9.9	+0.9	-107.0		+0.0	-31.2	-40.0	+8.8	Ant1
12	2859.000M Ave	30.7	+9.9	+0.9	-107.0		+0.0	-65.5	-40.0	-25.5	Ant1
^	2859.000M	59.9	+9.9	+0.9	-107.0		+0.0	-36.3	-40.0	+3.7	Ant1
14	2896.000M Ave	29.7	+9.9	+0.9	-107.0		+0.0	-66.5	-40.0	-26.5	Ant1
^	2896.000M	56.1	+9.9	+0.9	-107.0		+0.0	-40.1	-40.0	-0.1	Ant1
16	2840.000M Ave	29.5	+9.9	+0.9	-107.0		+0.0	-66.7	-40.0	-26.7	Ant1
^	2840.000M	55.8	+9.9	+0.9	-107.0		+0.0	-40.4	-40.0	-0.4	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/5/2020
Test Type:	**Conducted Emissions**	Time:	15:04:07
Tested By:	Benny Lovan	Sequence#:	2
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37G

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3555 MHz
Modulation: QPSK
Channel Bandwidth: 10MHz
Output Power Software Setting: 33

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	3993.273M	51.2	+9.9	+1.1	-107.0		+0.0	-44.8	-40.0	-4.8	Ant1
2	36619.867 M	48.2	+10.5	+3.3	-107.0		+0.0	-45.0	-40.0	-5.0	Ant1
3	36936.274 M	47.7	+10.4	+3.4	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
4	36761.398 M	47.6	+10.4	+3.4	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
5	36818.208 M	47.4	+10.4	+3.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
6	36628.876 M	47.3	+10.5	+3.3	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
7	36655.903 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
8	36830.064 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
9	36799.930 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
10	36854.270 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
11	4020.300M	49.9	+9.9	+1.1	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
12	36453.701 M	47.1	+10.5	+3.3	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
13	36787.333 M	47.0	+10.4	+3.4	-107.0		+0.0	-46.2	-40.0	-6.2	Ant1
14	36784.616 M	47.0	+10.4	+3.4	-107.0		+0.0	-46.2	-40.0	-6.2	Ant1
15	36638.886 M	47.0	+10.4	+3.3	-107.0		+0.0	-46.3	-40.0	-6.3	Ant1
16	36387.635 M	46.8	+10.5	+3.3	-107.0		+0.0	-46.4	-40.0	-6.4	Ant1
17	36825.865 M	46.8	+10.4	+3.4	-107.0		+0.0	-46.4	-40.0	-6.4	Ant1

18	36348.596 M	46.7	+10.5	+3.3	-107.0	+0.0	-46.5	-40.0	-6.5	Ant1
19	36813.762 M	46.7	+10.4	+3.4	-107.0	+0.0	-46.5	-40.0	-6.5	Ant1
20	36790.297 M	46.6	+10.4	+3.4	-107.0	+0.0	-46.6	-40.0	-6.6	Ant1
21	36322.570 M	46.5	+10.5	+3.3	-107.0	+0.0	-46.7	-40.0	-6.7	Ant1
22	36236.484 M	46.5	+10.5	+3.2	-107.0	+0.0	-46.8	-40.0	-6.8	Ant1
23	36178.426 M	46.4	+10.5	+3.2	-107.0	+0.0	-46.9	-40.0	-6.9	Ant1
24	36375.623 M	46.2	+10.5	+3.3	-107.0	+0.0	-47.0	-40.0	-7.0	Ant1
25	4012.292M	48.9	+9.9	+1.1	-107.0	+0.0	-47.1	-40.0	-7.1	Ant1
26	36309.557 M	46.1	+10.5	+3.3	-107.0	+0.0	-47.1	-40.0	-7.1	Ant1
27	3830.110M Ave	33.8	+9.9	+1.0	-107.0	+0.0	-62.3	-40.0	-22.3	Ant1
^	3830.110M	64.5	+9.9	+1.0	-107.0	+0.0	-31.6	-40.0	+8.4	Ant1
29	7108.385M Ave	31.0	+10.0	+1.5	-107.0	+0.0	-64.5	-40.0	-24.5	Ant1
^	7108.385M	57.4	+10.0	+1.5	-107.0	+0.0	-38.1	-40.0	+1.9	Ant1
31	7113.390M Ave	29.4	+10.0	+1.5	-107.0	+0.0	-66.1	-40.0	-26.1	Ant1
^	7113.390M	56.2	+10.0	+1.5	-107.0	+0.0	-39.3	-40.0	+0.7	Ant1
33	7105.382M Ave	28.5	+10.0	+1.5	-107.0	+0.0	-67.0	-40.0	-27.0	Ant1
^	7105.382M	55.9	+10.0	+1.5	-107.0	+0.0	-39.6	-40.0	+0.4	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/5/2020
Test Type:	**Conducted Emissions**	Time:	16:01:19
Tested By:	Benny Lovan	Sequence#:	3
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

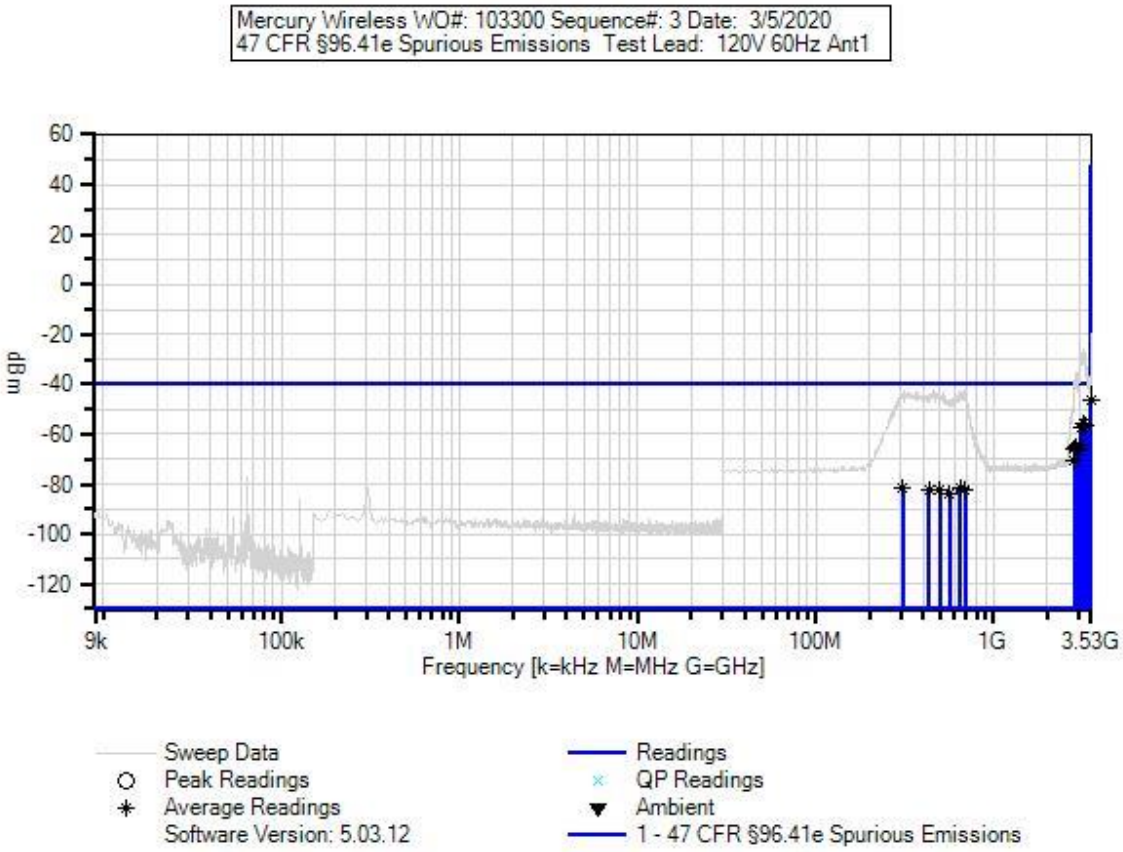
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3555 MHz
Modulation: QAM16
Channel Bandwidth: 10MHz
Output Power Software Setting: 33

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	3529.503M Ave	49.8	+9.9	+1.0	-107.0		+0.0	-46.3	-40.0	-6.3	Ant1
^	3529.503M	74.1	+9.9	+1.0	-107.0		+0.0	-22.0	-40.0	+18.0	Ant1
3	3229.900M Ave	40.7	+9.9	+0.9	-107.0		+0.0	-55.5	-40.0	-15.5	Ant1
^	3229.900M	70.5	+9.9	+0.9	-107.0		+0.0	-25.7	-40.0	+14.3	Ant1
5	3185.800M Ave	40.1	+9.9	+0.9	-107.0		+0.0	-56.1	-40.0	-16.1	Ant1
^	3185.800M	65.7	+9.9	+0.9	-107.0		+0.0	-30.5	-40.0	+9.5	Ant1
7	3286.800M Ave	39.3	+9.9	+1.0	-107.0		+0.0	-56.8	-40.0	-16.8	Ant1
^	3286.800M	61.7	+9.9	+1.0	-107.0		+0.0	-34.4	-40.0	+5.6	Ant1
9	3086.300M Ave	38.6	+9.9	+0.9	-107.0		+0.0	-57.6	-40.0	-17.6	Ant1
^	3086.300M	66.6	+9.9	+0.9	-107.0		+0.0	-29.6	-40.0	+10.4	Ant1
11	2997.000M Ave	31.5	+9.9	+0.9	-107.0		+0.0	-64.7	-40.0	-24.7	Ant1
^	2997.000M	57.7	+9.9	+0.9	-107.0		+0.0	-38.5	-40.0	+1.5	Ant1
13	2871.500M Ave	31.3	+9.9	+0.9	-107.0		+0.0	-64.9	-40.0	-24.9	Ant1
^	2871.500M	59.0	+9.9	+0.9	-107.0		+0.0	-37.2	-40.0	+2.8	Ant1
15	2837.500M Ave	30.1	+9.9	+0.9	-107.0		+0.0	-66.1	-40.0	-26.1	Ant1
^	2837.500M	55.8	+9.9	+0.9	-107.0		+0.0	-40.4	-40.0	-0.4	Ant1
17	2929.000M Ave	29.8	+9.9	+0.9	-107.0		+0.0	-66.4	-40.0	-26.4	Ant1
^	2929.000M	56.1	+9.9	+0.9	-107.0		+0.0	-40.1	-40.0	-0.1	Ant1
19	2817.500M Ave	25.4	+9.9	+0.9	-107.0		+0.0	-70.8	-40.0	-30.8	Ant1
^	2817.500M	52.6	+9.9	+0.9	-107.0		+0.0	-43.6	-40.0	-3.6	Ant1
21	307.250M Ave	15.6	+9.9	+0.3	-107.0		+0.0	-81.2	-40.0	-41.2	Ant1
^	307.250M	53.8	+9.9	+0.3	-107.0		+0.0	-43.0	-40.0	-3.0	Ant1
23	647.700M Ave	14.9	+9.9	+0.5	-107.0		+0.0	-81.7	-40.0	-41.7	Ant1
^	647.700M	53.7	+9.9	+0.5	-107.0		+0.0	-42.9	-40.0	-2.9	Ant1

25 Ave	498.100M	14.6	+9.9	+0.4	-107.0	+0.0	-82.1	-40.0	-42.1	Ant1
^	498.100M	53.7	+9.9	+0.4	-107.0	+0.0	-43.0	-40.0	-3.0	Ant1
27 Ave	430.450M	14.5	+9.9	+0.4	-107.0	+0.0	-82.2	-40.0	-42.2	Ant1
^	430.450M	50.1	+9.9	+0.4	-107.0	+0.0	-46.6	-40.0	-6.6	Ant1
29 Ave	689.500M	14.3	+9.9	+0.5	-107.0	+0.0	-82.3	-40.0	-42.3	Ant1
^	689.500M	52.0	+9.9	+0.5	-107.0	+0.0	-44.6	-40.0	-4.6	Ant1
31 Ave	564.100M	13.1	+9.9	+0.4	-107.0	+0.0	-83.6	-40.0	-43.6	Ant1
^	564.100M	50.9	+9.9	+0.4	-107.0	+0.0	-45.8	-40.0	-5.8	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/5/2020
Test Type:	**Conducted Emissions**	Time:	16:12:40
Tested By:	Benny Lovan	Sequence#:	4
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.720 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

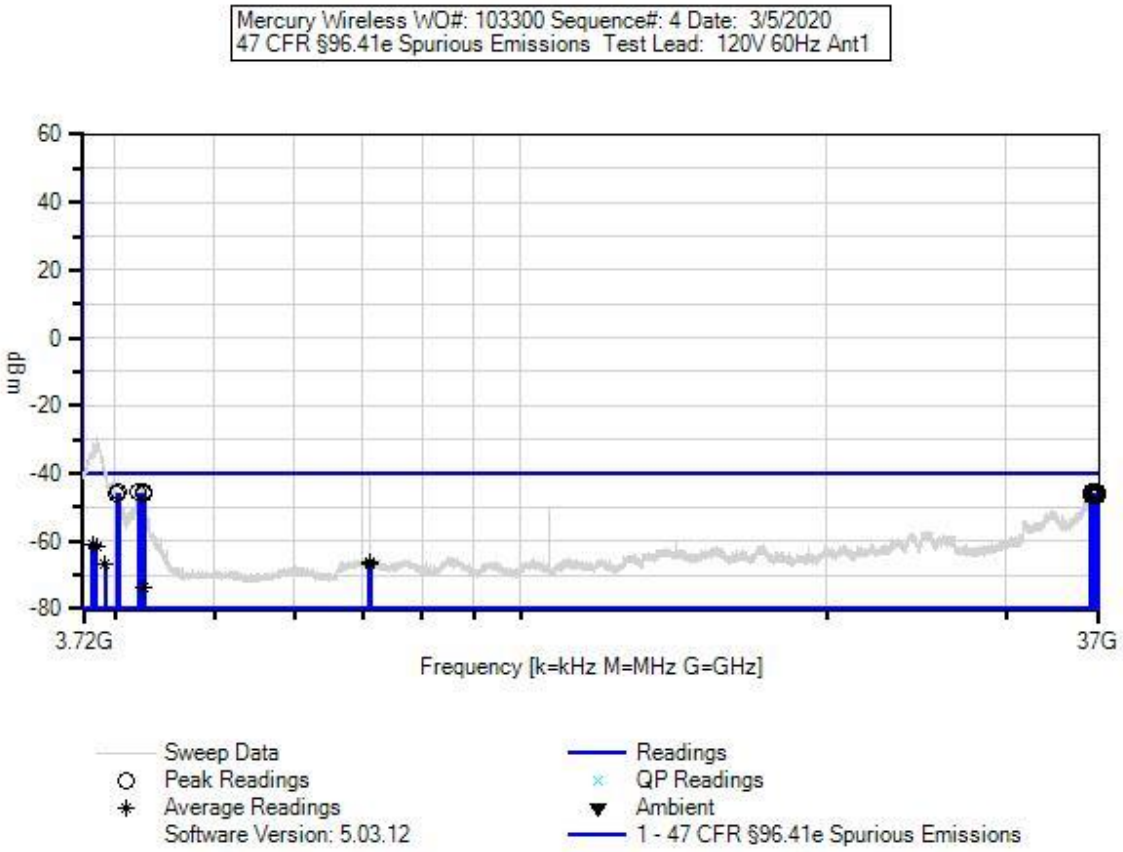
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3555 MHz
Modulation: QAM16
Channel Bandwidth: 10MHz
Output Power Software Setting: 33

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	36428.676 M	47.7	+10.5	+3.3	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
2	36811.539 M	47.7	+10.4	+3.4	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
3	4258.538M	50.4	+9.9	+1.1	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
4	4035.315M	50.4	+9.9	+1.1	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
5	36445.693 M	47.6	+10.5	+3.3	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
6	36820.925 M	47.6	+10.4	+3.4	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
7	36568.816 M	47.6	+10.5	+3.3	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
8	4212.492M	50.3	+9.9	+1.1	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
9	36911.080 M	47.4	+10.4	+3.4	-107.0		+0.0	-45.8	-40.0	-5.8	Ant1
10	36761.398 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
11	36763.621 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
12	36700.948 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
13	4017.297M	50.1	+9.9	+1.1	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
14	36562.810 M	47.2	+10.5	+3.3	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
15	36529.777 M	47.2	+10.5	+3.3	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
16	36819.937 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
17	36813.515 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
18	4265.545M	49.9	+9.9	+1.1	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1

19	36717.965 M	47.0	+10.4	+3.4	-107.0	+0.0	-46.2	-40.0	-6.2	Ant1
20	36815.738 M	46.9	+10.4	+3.4	-107.0	+0.0	-46.3	-40.0	-6.3	Ant1
21	36818.208 M	46.9	+10.4	+3.4	-107.0	+0.0	-46.3	-40.0	-6.3	Ant1
22	36344.592 M	46.8	+10.5	+3.3	-107.0	+0.0	-46.4	-40.0	-6.4	Ant1
23	36747.995 M	46.7	+10.4	+3.4	-107.0	+0.0	-46.5	-40.0	-6.5	Ant1
24	3797.077M Ave	35.1	+9.9	+1.0	-107.0	+0.0	-61.0	-40.0	-21.0	Ant1
^	3797.077M	63.4	+9.9	+1.0	-107.0	+0.0	-32.7	-40.0	+7.3	Ant1
26	3809.089M Ave	35.1	+9.9	+1.0	-107.0	+0.0	-61.0	-40.0	-21.0	Ant1
^	3809.089M	65.1	+9.9	+1.0	-107.0	+0.0	-31.0	-40.0	+9.0	Ant1
28	3836.116M Ave	34.8	+9.9	+1.0	-107.0	+0.0	-61.3	-40.0	-21.3	Ant1
^	3836.116M	66.8	+9.9	+1.0	-107.0	+0.0	-29.3	-40.0	+10.7	Ant1
30	7106.383M Ave	29.1	+10.0	+1.5	-107.0	+0.0	-66.4	-40.0	-26.4	Ant1
^	7106.383M	54.0	+10.0	+1.5	-107.0	+0.0	-41.5	-40.0	-1.5	Ant1
32	7113.390M Ave	29.0	+10.0	+1.5	-107.0	+0.0	-66.5	-40.0	-26.5	Ant1
^	7113.390M	54.1	+10.0	+1.5	-107.0	+0.0	-41.4	-40.0	-1.4	Ant1
34	3910.190M Ave	29.4	+9.9	+1.0	-107.0	+0.0	-66.7	-40.0	-26.7	Ant1
^	3910.190M	57.7	+9.9	+1.0	-107.0	+0.0	-38.4	-40.0	+1.6	Ant1
36	4255.535M Ave	22.5	+9.9	+1.1	-107.0	+0.0	-73.5	-40.0	-33.5	Ant1
^	4255.535M	52.2	+9.9	+1.1	-107.0	+0.0	-43.8	-40.0	-3.8	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/5/2020
Test Type:	**Conducted Emissions**	Time:	16:25:32
Tested By:	Benny Lovan	Sequence#:	5
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 9kHz - 3530 MHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

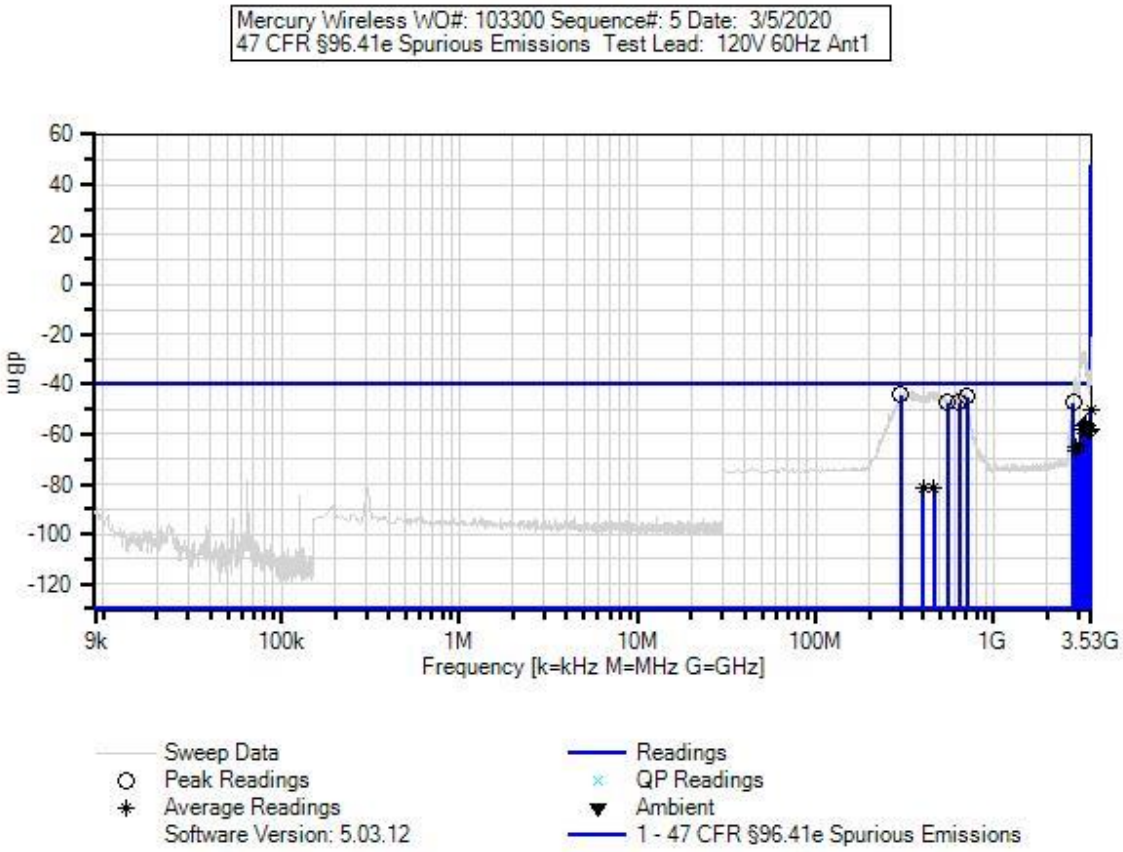
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3555 MHz
Modulation: QAM64
Channel Bandwidth: 10MHz
Output Power Software Setting: 33

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	302.000M	52.5	+9.9	+0.3	-107.0		+0.0	-44.3	-40.0	-4.3	Ant1
2	705.500M	51.7	+9.9	+0.5	-107.0		+0.0	-44.9	-40.0	-4.9	Ant1
3	644.000M	49.4	+9.9	+0.5	-107.0		+0.0	-47.2	-40.0	-7.2	Ant1
4	2794.000M	48.8	+9.9	+0.9	-107.0		+0.0	-47.4	-40.0	-7.4	Ant1
5	551.500M	49.2	+9.9	+0.4	-107.0		+0.0	-47.5	-40.0	-7.5	Ant1
6	3529.503M Ave	46.2	+9.9	+1.0	-107.0		+0.0	-49.9	-40.0	-9.9	Ant1
^	3529.503M	75.0	+9.9	+1.0	-107.0		+0.0	-21.1	-40.0	+18.9	Ant1
8	3232.000M Ave	40.7	+9.9	+0.9	-107.0		+0.0	-55.5	-40.0	-15.5	Ant1
^	3232.000M	66.2	+9.9	+0.9	-107.0		+0.0	-30.0	-40.0	+10.0	Ant1
10	3171.000M Ave	39.9	+9.9	+0.9	-107.0		+0.0	-56.3	-40.0	-16.3	Ant1
^	3171.000M	66.8	+9.9	+0.9	-107.0		+0.0	-29.4	-40.0	+10.6	Ant1
12	3289.000M Ave	39.3	+9.9	+1.0	-107.0		+0.0	-56.8	-40.0	-16.8	Ant1
^	3289.000M	60.9	+9.9	+1.0	-107.0		+0.0	-35.2	-40.0	+4.8	Ant1
14	3081.000M Ave	38.2	+9.9	+0.9	-107.0		+0.0	-58.0	-40.0	-18.0	Ant1
^	3081.000M	66.1	+9.9	+0.9	-107.0		+0.0	-30.1	-40.0	+9.9	Ant1
16	3517.640M Ave	37.7	+9.9	+1.0	-107.0		+0.0	-58.4	-40.0	-18.4	Ant1
^	3517.640M	61.5	+9.9	+1.0	-107.0		+0.0	-34.6	-40.0	+5.4	Ant1
18	3362.000M Ave	37.1	+9.9	+1.0	-107.0		+0.0	-59.0	-40.0	-19.0	Ant1
^	3362.000M	59.3	+9.9	+1.0	-107.0		+0.0	-36.8	-40.0	+3.2	Ant1
20	3456.000M Ave	36.9	+9.9	+1.0	-107.0		+0.0	-59.2	-40.0	-19.2	Ant1
^	3456.000M	57.5	+9.9	+1.0	-107.0		+0.0	-38.6	-40.0	+1.4	Ant1
22	2999.000M Ave	31.6	+9.9	+0.9	-107.0		+0.0	-64.6	-40.0	-24.6	Ant1
^	2999.000M	57.6	+9.9	+0.9	-107.0		+0.0	-38.6	-40.0	+1.4	Ant1

24	2862.000M Ave	31.2	+9.9	+0.9	-107.0	+0.0	-65.0	-40.0	-25.0	Ant1
^	2862.000M	57.8	+9.9	+0.9	-107.0	+0.0	-38.4	-40.0	+1.6	Ant1
26	2919.000M Ave	29.4	+9.9	+0.9	-107.0	+0.0	-66.8	-40.0	-26.8	Ant1
^	2919.000M	55.3	+9.9	+0.9	-107.0	+0.0	-40.9	-40.0	-0.9	Ant1
28	400.000M Ave	15.1	+9.9	+0.4	-107.0	+0.0	-81.6	-40.0	-41.6	Ant1
^	400.000M	53.9	+9.9	+0.4	-107.0	+0.0	-42.8	-40.0	-2.8	Ant1
30	462.000M Ave	14.9	+9.9	+0.4	-107.0	+0.0	-81.8	-40.0	-41.8	Ant1
^	462.000M	53.8	+9.9	+0.4	-107.0	+0.0	-42.9	-40.0	-2.9	Ant1

Test Location:	CKC Laboratories Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • 209-966-5240		
Customer:	**Mercury Wireless**		
Specification:	**47 CFR §96.41e Spurious Emissions**		
Work Order #:	**103300**	Date:	3/5/2020
Test Type:	**Conducted Emissions**	Time:	16:39:02
Tested By:	Benny Lovan	Sequence#:	6
Software:	EMITest 5.03.12		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Spurious Emissions 3.72 - 37 GHz

Temperature: 23°C
Humidity: 28%
Atmospheric Pressure: 102.5 kPa

Transmit Frequency Range: 3550 - 3700

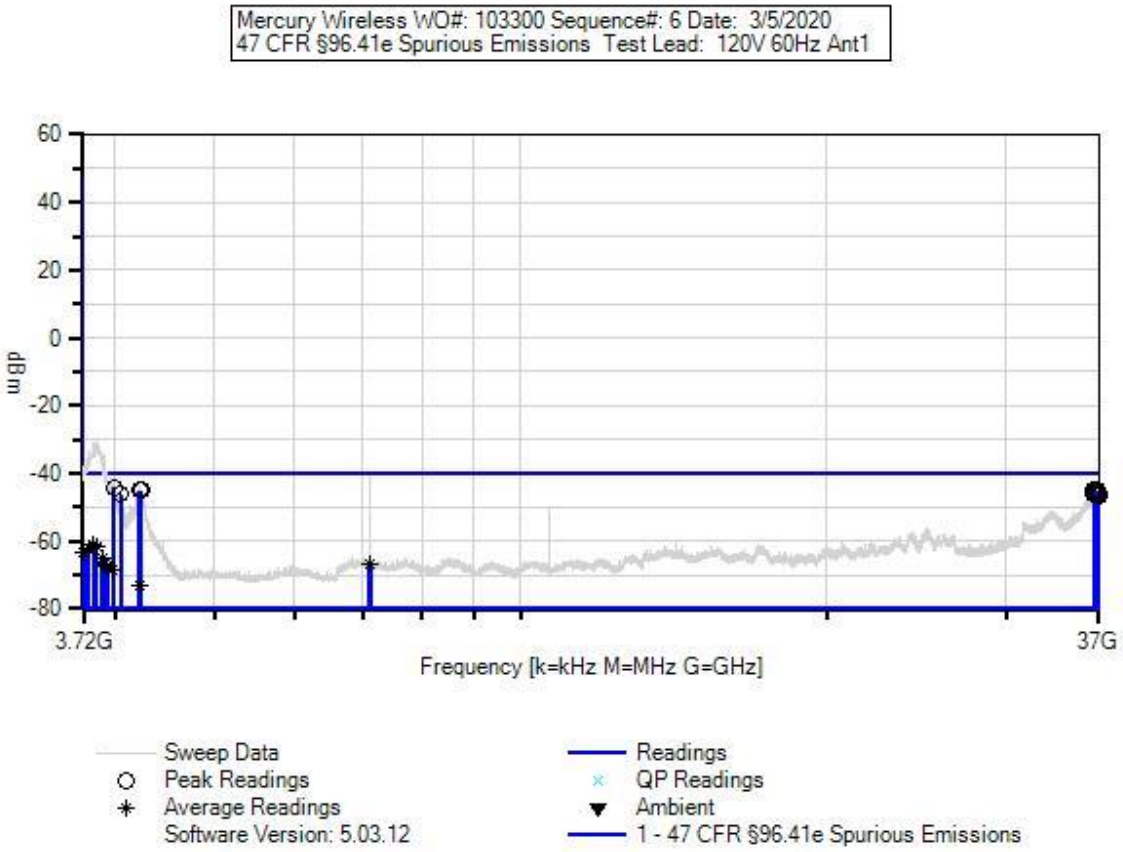
RBW:
200Hz (9k - 150k),
9kHz (150k-30M),
1MHz (30MHz - 37GHz)

VBW: 3x RBW

Transmitter Settings:
Transmit Frequency: 3555 MHz
Modulation: QAM64
Channel Bandwidth: 10MHz
Output Power Software Setting: 33

The EUT is a CBSD and is located on a table, directly connected to a spectrum analyzer through 10dB of attenuation. The unit was programmed to output the transmitter settings specified above in a continuous transmit mode.

Antenna 1 through 6 are multiplexed from one radio. All 6 channels will have the same output simultaneously in normal operation. Preliminary investigatory measurements showed that all 6 ports were identical and therefore spurious emissions are only being performed on Antenna Port 1.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	12/17/2019	12/17/2020
T1	ANP06239	Attenuator	54A-10	12/18/2018	12/18/2020
T2	AN03356	Cable	32026-2-29094K-48TC	3/14/2019	3/14/2021
T3	ANdBuV	Unit Conversion		8/24/2018	8/24/2022

Measurement Data: Reading listed by margin. Test Lead: Ant1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	3991.271M	51.9	+9.9	+1.1	-107.0		+0.0	-44.1	-40.0	-4.1	Ant1
2	4237.517M	51.1	+9.9	+1.1	-107.0		+0.0	-44.9	-40.0	-4.9	Ant1
3	36543.791 M	48.3	+10.5	+3.3	-107.0		+0.0	-44.9	-40.0	-4.9	Ant1
4	36784.369 M	48.2	+10.4	+3.4	-107.0		+0.0	-45.0	-40.0	-5.0	Ant1
5	4226.506M	50.9	+9.9	+1.1	-107.0		+0.0	-45.1	-40.0	-5.1	Ant1
6	36707.955 M	47.7	+10.4	+3.4	-107.0		+0.0	-45.5	-40.0	-5.5	Ant1
7	36549.797 M	47.6	+10.5	+3.3	-107.0		+0.0	-45.6	-40.0	-5.6	Ant1
8	36786.098 M	47.5	+10.4	+3.4	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
9	36656.904 M	47.5	+10.4	+3.4	-107.0		+0.0	-45.7	-40.0	-5.7	Ant1
10	36783.381 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
11	36945.907 M	47.3	+10.4	+3.4	-107.0		+0.0	-45.9	-40.0	-5.9	Ant1
12	36777.206 M	47.2	+10.4	+3.4	-107.0		+0.0	-46.0	-40.0	-6.0	Ant1
13	36592.840 M	47.1	+10.5	+3.3	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
14	36618.866 M	47.1	+10.5	+3.3	-107.0		+0.0	-46.1	-40.0	-6.1	Ant1
15	4048.328M	49.8	+9.9	+1.1	-107.0		+0.0	-46.2	-40.0	-6.2	Ant1
16	36962.703 M	46.8	+10.4	+3.4	-107.0		+0.0	-46.4	-40.0	-6.4	Ant1