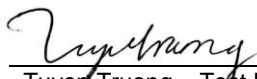
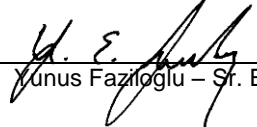




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Test Report

Curtis-Straus LLC, a wholly owned subsidiary of BV CPS

| | |
|---------------------|---|
| Report No | EQ1735-2 |
| Client | DogWatch Inc. |
| Address | 10 Michigan Drive Natick, MA 01760 |
| Phone | (800) 793-3436 x625 |
| Items tested | Smart Collar (M/N: SF-C10) |
| FCC ID | L66DWSFC |
| IC ID | 8187A-DWSFC |
| FRN | 0018536615 |
| Equipment Type | Low Power Communication Device Transmitter |
| Equipment Code | DXX |
| Standards | CFR 47 FCC 15.249, RSS 210 Issue 9 Annex B.10 |
| Test Dates | July 19-20, Sep 6, 2016 |
| Results | As detailed within this report |
| Prepared by |  Tuyen Truong – Test Engineer |
| Authorized by |  Yunus Faziloglu – Sr. EMC Engineer |
| Issue Date | 9/16/2016 |
| Conditions of Issue | This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 21 of this report. |

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Form Final Report REV 2-16-07 (DW)



Product Tested - Configuration Documentation

| EUT Configuration | | | |
|--|-------------------------------|-----------|------------------------------|
| Work Order: | Q1735 | | |
| Company: | DogWatch Inc. | | |
| Company Address: | 10 Michigan Drive | | |
| | Natick, MA, 01760 | | |
| Contact: | Frederic Peterson | | |
| | MN | PN | SN |
| EUT: | SF-C10 | -- | 8 (used for TX at 902.1 MHz) |
| | SF-C10 | -- | 1 (used for TX at 915.1 MHz) |
| | SF-C10 | -- | 5 (used for TX at 927.9 MHz) |
| | SF-C10 | -- | 59 (used for RX mode) |
| EUT Description: | Smart Collar | | |
| EUT Max Frequency: | 27 MHz (Associated Circuitry) | | |
| EUT TX Frequency: | 902.1 to 927.9 MHz | | |
| Software Operating Mode Description: | | | |
| EUT is set to transmit at the following channels 902.1, 915.1, and 927.9MHz. In "Standby" mode, EUT shall not transmit. EUT is in "Receive" mode for a short period of time after it transmits; then it goes back to Standby mode. Modulation is FSK. Data rate = 3kbps, Duty-Cycle = 100% | | | |
| Performance Criteria: | | | |
| EMI testing only | | | |



Reason for change
Original Release

Date Issued
September 16, 2016

Summary

This test report supports an application for certification of a transmitter operating pursuant to CFR 47 FCC 15.249, RSS 210 Issue 9 Annex B.10. The product operates in the 902.1MHz to 927.9MHz frequency range.

We found that the product met the above requirements without modifications. The test samples were received in good condition.

Model tested: SF-C10

Test results in this report represent the following additional models. The differences between models are in software that control features. All models share the same circuit boards and RF parameters.

Additional Models: SF-C20, SF-C30, SF-C40



Reason for change
Original Release

Date Issued
September 16, 2016

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Test Methodology

Radiated emission testing was performed according to the procedures specified in ANSI C63.10-2013 and RSS-Gen Issue 4. Radiated Emissions were maximized around 3 orthogonal planes. EUT antenna is integral and therefore cannot be maximized separately.

AC Mains Conducted Emission was not tested with a 50 Ω /50 μ H because EUT is battery powered.

The product was tested with modulation on and the readings were compared against the limit presented in section CFR 15.249.

Operating channel frequency = 902.1 MHz (EUT Sample # 8)

Operating channel frequency = 915.1 MHz (EUT Sample # 1)

Operating channel frequency = 927.9 MHz (EUT Sample # 5)

The EUT operating voltage is 3.6Vdc (battery powered).

The following bandwidths were used during radiated spurious and line conducted emissions.

| Frequency | RBW | VBW |
|------------|--------|-------|
| 0.15-30MHz | 9kHz | 30kHz |
| 30-1000MHz | 120kHz | 1MHz |
| 1-25GHz | 1MHz | 3MHz |



Reason for change
Original Release

Date Issued
September 16, 2016

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Compliance Statement

The Smart Collar has been found to conform to the following parts of 47 CFR and RSS 210 as detailed below:

| RSS-GEN | RSP-100 | RSS 210 | Part 15 | Comments |
|----------|---------|---------|------------------|--|
| 6.3 | | | 15.15(b) | There are no controls accessible to the user that vary the output power. |
| | 3.1 | | 15.19 | The label is shown in the label exhibit. |
| | 3.2 | | 15.21 | Information to the user is shown in the instruction manual exhibit. |
| | | | 15.27 | No special accessories are required for compliance. |
| 6.1, 6.5 | | | 15.31 | The EUT was tested in accordance with the measurement standards in this section. |
| | | | 15.33 | Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates. |
| 8.1 | | | 15.35 | The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates. |
| 8.3 | | | 15.203 | The antenna for this device is internal PCB antenna with -6dBi gain. |
| 8.10 | | | 15.205 15.209 | The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable |
| 8.8 | | | 15.207 | Not applicable since the EUT is battery powered. |
| | | B.10(a) | 15.249(a) | The fundamental and harmonics meet the limits in 15.249(a) |
| | | B.10(b) | 15.249(d) | Spurious emissions meet the limits in 15.209. |
| 6.6 | | | | 99% emissions bandwidth plot is provided. |



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Test Results

Fundamental Measurements

LIMITS

The field strength from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental Frequency | Field Strength of Fundamental (millivolts/meter) | Field Strength of Harmonics (microvolts/meter) |
|-----------------------|--|--|
| 902 - 928 MHz | 50 | 500 |
| 2400 - 2483.5 MHz | 50 | 500 |
| 5725 - 5875 MHz | 50 | 500 |
| 24.0 - 24.25 GHz | 250 | 2500 |

[15.249(a)]

MEASUREMENTS / RESULTS

| Radiated Emissions Table | | | | | | | | | |
|--|--------------------|------------------------|-----------------------|--------------------------|----------------------|------------------------------|---|------------------|-----------------------|
| Date: 06-Sep-16 | | Company: DogWatch Inc. | | | | | Work Order: Q1735 | | |
| Engineer: Tuyen Truong | | EUT Desc: SF-C10 | | | | | EUT Operating Voltage/Frequency: Battery (3.6Vdc) | | |
| Temp: 23°C | | Humidity: 50% | | | Pressure: 1010mBar | | | | |
| Frequency Range: 902 to 928 MHz | | | | | | Measurement Distance: 3 m | | | |
| Notes: Sample #1 (915.1 MHz) Sample #8 (902.1 MHz) Sample #5 (927.9 MHz) | | | | | | | | | |
| Antenna Polarization (H/V) | Frequency (MHz) | Reading (dBμV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Reading (dBμV/m) | FCC 15.249 | | |
| | | | | | | | Limit (dBμV/m) | Margin (dB) | Result (Pass/Fail) |
| h | 902.1 | 65.7 | 0.0 | 22.5 | 2.1 | 90.3 | 93.9 | -3.6 | Pass |
| h | 915.1 | 66.2 | 0.0 | 22.4 | 2.1 | 90.7 | 93.9 | -3.2 | Pass |
| h | 927.9 | 66.3 | 0.0 | 22.5 | 2.1 | 90.9 | 93.9 | -3.0 | Pass |
| Table Result: Pass by -3.0 dB Worst Freq: 927.9 MHz | | | | | | | | | |
| Test Site: EMI Chamber 1 | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | Cable 3: --- | |
| Analyzer: Asset #1327 | | Preamp: none | | | | Antenna: Red-Brown | | Preselector: --- | |
| CSsoft Radiated Emissions Calculator v 1.017.171 | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | |
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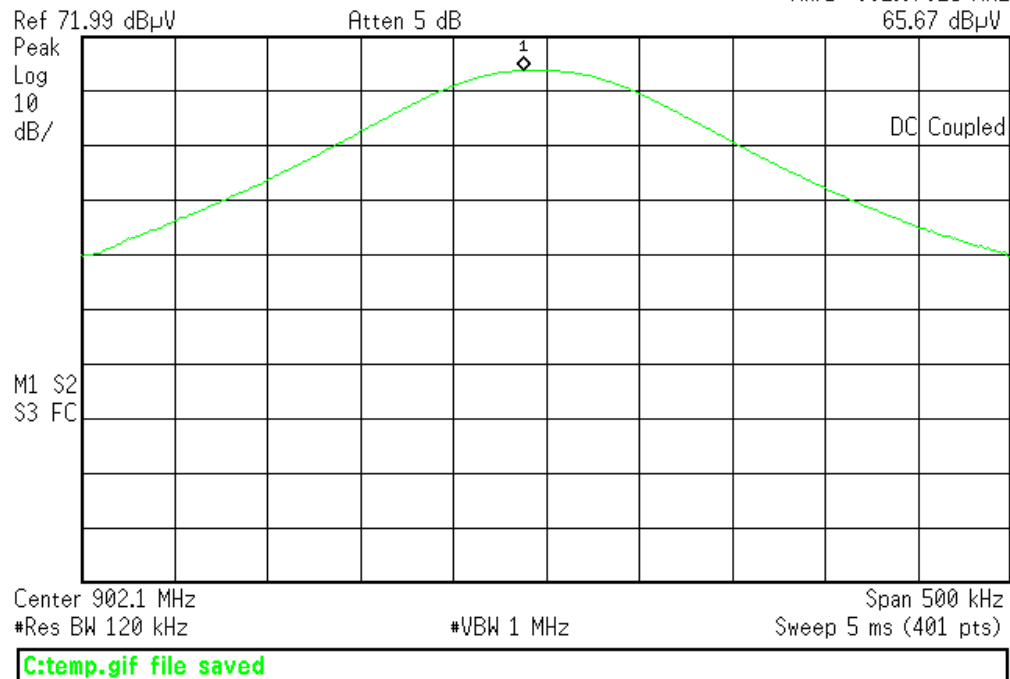


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Plot(s)

* Agilent 07:20:20 Sep 6, 2016

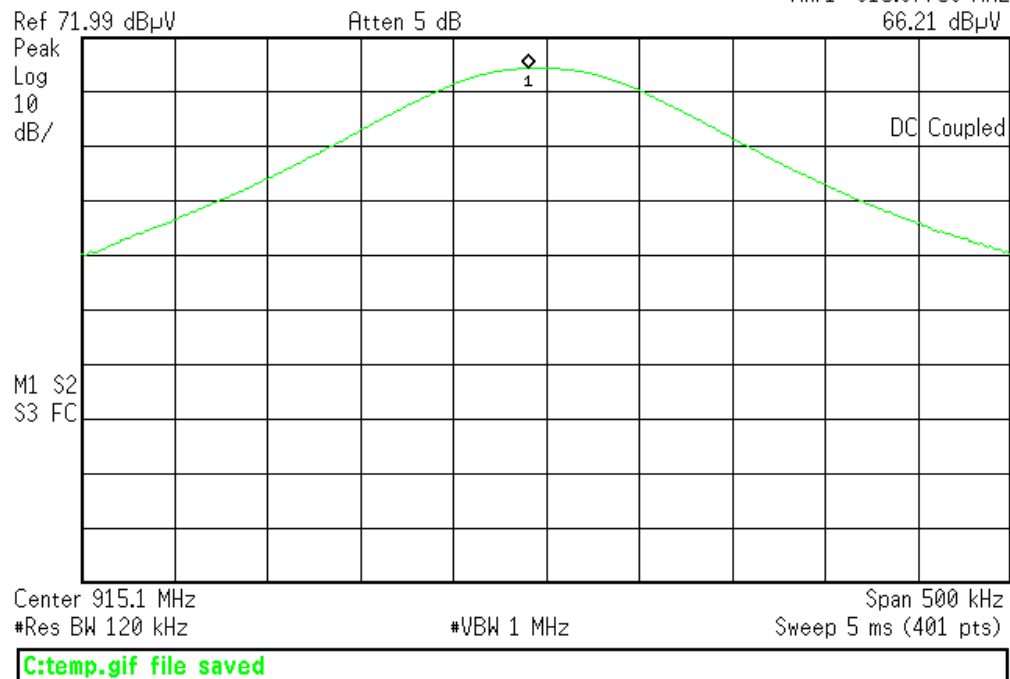
R T

Mkr1 902.07625 MHz
65.67 dB μ V

Peak Power - Low Channel (902.1 MHz)

* Agilent 07:58:33 Sep 6, 2016

R T

Mkr1 915.07750 MHz
66.21 dB μ V

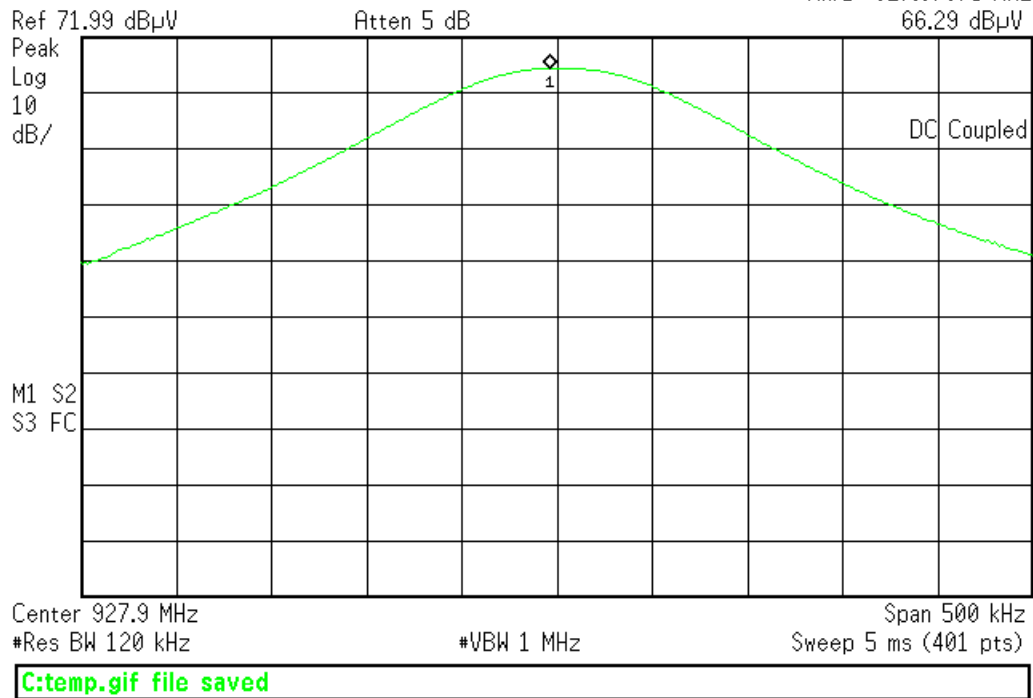
Peak Power - Mid Channel (915.1 MHz)



Agilent 08:25:00 Sep 6, 2016

R T

Mkr1 927.87875 MHz
66.29 dBμV



Peak Power - High Channel (927.9 MHz)

Radiated Spurious Emissions LIMITS

15.249 (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

MEASUREMENTS / RESULTS

TX mode

| Radiated Emissions Table | | | | | | | | | | | | |
|--|--------------------|-------------------|------------------------|--------------------------|----------------------|------------------------------|--|----------------|-----------------------|-------------------|----------------|-----------------------|
| Date: 19-Jul-16 | | | Company: Dogwatch Inc. | | | | Work Order: Q1735 | | | | | |
| Engineer: Tuyen Truong | | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6Vdc (batt) | | | | | |
| Temp: 24°C | | | Humidity: 45% | | | | Pressure: 1002mBar | | | | | |
| Frequency Range: 30 to 1000 MHz | | | | | | | Measurement Distance: 3m | | | | | |
| Notes: All three channels (EUT samples, S/N 1, 5 and 8) were investigated. Only the worst case recorded. | | | | | | | EUT Max Frequencies: 27 MHz | | | | | |
| | | | | | | | EUT TX Frequencies: 902.1 to 927.9 MHz | | | | | |
| Antenna Polarization (H/V) | Frequency (MHz) | Reading (dBuV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Reading (dBuV/m) | --- | | | FCC 15.209 | | |
| | | | | | | | Limit (dBuV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBuV/m) | Margin (dB) | Result (Pass/Fail) |
| v | 47.0 | 37.5 | 25.5 | 9.5 | 0.5 | 22.0 | --- | --- | --- | 40.0 | -18.0 | Pass |
| v | 66.4 | 34.8 | 25.6 | 8.0 | 0.6 | 17.8 | --- | --- | --- | 40.0 | -22.2 | Pass |
| v | 131.6 | 29.3 | 25.6 | 14.0 | 0.9 | 18.6 | --- | --- | --- | 43.5 | -24.9 | Pass |
| v | 253.0 | 36.1 | 25.6 | 11.6 | 1.1 | 23.2 | --- | --- | --- | 46.0 | -22.8 | Pass |
| v | 258.0 | 32.8 | 25.7 | 12.0 | 1.1 | 20.2 | --- | --- | --- | 46.0 | -25.8 | Pass |
| h | 265.2 | 35.0 | 25.8 | 12.9 | 1.1 | 23.2 | --- | --- | --- | 46.0 | -22.8 | Pass |
| v | 304.0 | 33.0 | 25.8 | 13.5 | 1.3 | 22.0 | --- | --- | --- | 46.0 | -24.0 | Pass |
| h | 311.3 | 36.1 | 25.8 | 13.7 | 1.3 | 25.3 | --- | --- | --- | 46.0 | -20.7 | Pass |
| v | 960.0 | 25.9 | 25.7 | 22.9 | 2.2 | 25.3 | --- | --- | --- | 46.0 | -20.7 | Pass |
| v | 1000.0 | 27.8 | 25.5 | 23.4 | 2.3 | 28.0 | --- | --- | --- | 54.0 | -26.0 | Pass |
| Table Result: Pass by -18.0 dB Worst Freq: 47.0 MHz | | | | | | | | | | | | |
| Test Site: EMI Chamber 1 | | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | | Cable 3: --- | | |
| Analyzer: Asset #1328 | | | Preamp: Green | | | | Antenna: Red-Brown | | | Preselector: --- | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | |
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Rev. 7/4/2016

| | | | | | | | | |
|---|-----------------|----------------|---------------------|--------------|--------------|------------|------------------------|----------------------|
| Spectrum Analyzers / Receivers /Preselectors | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| SA EMI Chamber (1328) | 9kHz-13.2 GHz | E4405B | Agilent | MY44210241 | 1328 | I | 2/26/2017 | 2/26/2016 |
| Radiated Emissions Sites | FCC Code | IC Code | VCCI Code | Range | | Cat | Calibration Due | Calibrated on |
| EMI Chamber 1 | 719150 | 2762A-6 | A-0015 | 30-1000MHz | | II | 3/21/2017 | 3/21/2015 |
| Preamps /Couplers Attenuators / Filters | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Green | 0.009-2000MHz | ZFL-1000-LN | CS | N/A | 802 | II | 9/17/2016 | 9/17/2015 |
| Antennas | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Red-Brown Bilog | 30-2000MHz | JB1 | Sunol | A0032406 | 1218 | I | 12/4/2016 | 12/4/2014 |
| Meteorological Meters | | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| TH A#2080 | | HTC-1 | HDE | 2080 | 2080 | II | 4/5/2017 | 4/5/2016 |
| Barometric A#2160 | | 5396-0321 | Monarch Instruments | 4000060 | 2160 | I | 3/7/2017 | 3/7/2016 |
| Cables | Range | | Mfr | | | Cat | Calibration Due | Calibrated on |
| Asset #1784 | 9kHz - 18GHz | | Florida RF | | | II | 3/7/2017 | 3/7/2016 |
| Asset #2051 | 9kHz - 18GHz | | Florida RF | | | II | 3/2/2017 | 3/2/2016 |

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Radiated Emissions Table

| Date: 19-Jul-16 | | Company: DogWatch Inc. | | | | Work Order: Q1735 | | | | | | | | |
|--|-----------------|------------------------|------------------------|----------------------|-----------------------|---|--------------------------------|-------------------------------|----------------------------------|-------------|--------------------|-------------------------------------|-------------|--------------------|
| Engineer: Chris Bramley | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6Vdc | | | | | | | | |
| Temp: 25.7°C | | Humidity: 37% | | | | Pressure: 1002mBar | | | | | | | | |
| Frequency Range: 1-6GHz | | | | | | Measurement Distance: 3m | | | | | | | | |
| Notes: | | | | | | EUT Max Freq: 27MHz | | | | | | | | |
| | | | | | | EUT TX Freq: 902.1 to 927.9 MHz | | | | | | | | |
| Antenna Polarization (H/V) | Frequency (MHz) | Peak Reading (dBµV) | Average Reading (dBµV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Peak Reading (dBµV/m) | Adjusted Avg Reading (dBµV/m) | FCC 15.209 High Frequency - Peak | | | FCC 15.209 High Frequency - Average | | |
| | | | | | | | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| SN:8 - Tx at 902.1MHz | | | | | | | | | | | | | | |
| h | 1804.2 | 31.33 | 18.6 | 18.8 | 30.5 | 3.1 | 46.1 | 33.4 | 74.0 | -27.9 | Pass | 54.0 | -20.6 | Pass |
| h | 2706.3 | 34.6 | 23.3 | 20.3 | 32.9 | 4.6 | 51.8 | 40.5 | 74.0 | -22.2 | Pass | 54.0 | -13.5 | Pass |
| h | 3608.4 | 36.18 | 25.1 | 19.1 | 33.3 | 5.3 | 55.7 | 44.6 | 74.0 | -18.3 | Pass | 54.0 | -9.4 | Pass |
| h | 4510.5 | 32.02 | 19.3 | 17.9 | 34.2 | 6.2 | 54.5 | 41.8 | 74.0 | -19.5 | Pass | 54.0 | -12.2 | Pass |
| v | 5412.6 | 33.75 | 23.2 | 17.6 | 34.8 | 7.1 | 58.1 | 47.5 | 74.0 | -15.9 | Pass | 54.0 | -6.5 | Pass |
| Table Result: | | | | Pass | | by | | -6.5 dB | | Worst Freq: | | | 5412.6 MHz | |
| Test Site: EMI Chamber 1 | | | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | | | | | |
| Analyzer: Asset #1328 | | | | Preamp: Asset #1517 | | | | Antenna: Blue Horn | | | | | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | | | |
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Radiated Emissions Table

| Date: 19-Jul-16 | | Company: Dogwatch Inc. | | | | Work Order: Q1735 | | | | | | | | |
|--|--------------------|------------------------|---------------------------|-----------------------|--------------------------|---|-----------------------------------|----------------------------------|----------------------------------|------------------|-----------------------|-------------------------------------|----------------|-----------------------|
| Engineer: Tuyen Truong | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6V (battery) | | | | | | | | |
| Temp: 22°C | | Humidity: 39% | | | | Pressure: 1015mBar | | | | | | | | |
| Frequency Range: 6 to 10 GHz | | | | | | Measurement Distance: 1m | | | | | | | | |
| Notes: TX on Sample #8 (902.1 MHz) | | | | | | EUT TX Frequencies: 902.1 to 927.9 MHz | | | | | | | | |
| Antenna Polarization (H/V) | Frequency (MHz) | Peak Reading (dBµV) | Average Reading (dBµV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Peak Reading (dBµV/m) | Adjusted Avg Reading (dBµV/m) | FCC 15.209 High Frequency - Peak | | | FCC 15.209 High Frequency - Average | | |
| | | | | | | | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| No emissions found in this range within 10dB of limit | | | | | | | | | | | | | | |
| Table Result: --- by --- dB Worst Freq: --- MHz | | | | | | | | | | | | | | |
| Test Site: EMI Chamber 1 | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | | | Cable 3: --- | | | | |
| Analyzer: Asset #1328 | | Preamp: Asset #1517 | | | | Antenna: Blue Horn | | | | Preselector: --- | | | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | | | |
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Radiated Emissions Table

| | | | | | | | | | | | | | | |
|--|--------------------|------------------------|---------------------------|-----------------------|--------------------------|---|-----------------------------------|----------------------------------|----------------------------------|----------------------|-----------------------|-------------------------------------|----------------|-----------------------|
| Date: 19-Jul-16 | | Company: DogWatch Inc. | | | | Work Order: Q1735 | | | | | | | | |
| Engineer: Chris Bramley | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6Vdc | | | | | | | | |
| Temp: 25.7°C | | Humidity: 37% | | | | Pressure: 1002mBar | | | | | | | | |
| Frequency Range: 1-6GHz | | | | | | Measurement Distance: 3m | | | | | | | | |
| Notes: | | | | | | EUT Max Freq: 27MHz | | | | | | | | |
| | | | | | | EUT TX Freq: 902.1 to 927.9 MHz | | | | | | | | |
| Antenna Polarization (H/V) | Frequency (MHz) | Peak Reading (dBµV) | Average Reading (dBµV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Peak Reading (dBµV/m) | Adjusted Avg Reading (dBµV/m) | FCC 15.209 High Frequency - Peak | | | FCC 15.209 High Frequency - Average | | |
| | | | | | | | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| SN:1 - Tx at 915.1MHz | | | | | | | | | | | | | | |
| h | 1830.2 | 31.91 | 19.1 | 18.8 | 30.7 | 3.1 | 46.9 | 34.1 | 74.0 | -27.1 | Pass | 54.0 | -19.9 | Pass |
| h | 2745.3 | 34.49 | 21.9 | 20.2 | 33.0 | 4.5 | 51.8 | 39.2 | 74.0 | -22.2 | Pass | 54.0 | -14.8 | Pass |
| h | 3660.4 | 35.91 | 25.4 | 19.1 | 33.4 | 5.4 | 55.6 | 45.1 | 74.0 | -18.4 | Pass | 54.0 | -8.9 | Pass |
| h | 4575.5 | 32.34 | 19.4 | 17.9 | 34.3 | 6.0 | 54.7 | 41.8 | 74.0 | -19.3 | Pass | 54.0 | -12.2 | Pass |
| v | 5490.6 | 33.32 | 21.0 | 17.6 | 34.8 | 6.9 | 57.4 | 45.1 | 74.0 | -16.6 | Pass | 54.0 | -8.9 | Pass |
| Table Result: | | Pass | | | | by | | -8.9 dB | | Worst Freq: | | 3660.4 MHz | | |
| Test Site: EMI Chamber 1 | | | | | Cable 1: Asset #2051 | | | | | Cable 2: Asset #1784 | | | | |
| Analyzer: Asset #1328 | | | | | Preamp: Asset #1517 | | | | | Antenna: Blue Horn | | | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | | | |
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| Radiated Emissions Table | | | | | | | | | | | | | | |
|--|-----------------|---------------------|------------------------|--------------------|------------------------|-------------------|--------------------------------|-------------------------------|----------------------------------|---|--------------------|-------------------------------------|-------------|--------------------|
| Date: 19-Jul-16 | | | | | Company: Dogwatch Inc. | | | | | Work Order: Q1735 | | | | |
| Engineer: Tuyen Truong | | | | | EUT Desc: SF-C10 | | | | | EUT Operating Voltage/Frequency: 3.6V (battery) | | | | |
| Temp: 22°C | | | | | Humidity: 39% | | | | | Pressure: 1015mBar | | | | |
| Frequency Range: 6 to 10 GHz | | | | | | | | | | Measurement Distance: 1m | | | | |
| Notes: TX on Sample #1 (915.1 MHz) | | | | | | | | | | EUT TX Frequencies: 902.1 to 927.9 MHz | | | | |
| Antenna Polarization (H/V) | Frequency (MHz) | Peak Reading (dBµV) | Average Reading (dBµV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Peak Reading (dBµV/m) | Adjusted Avg Reading (dBµV/m) | FCC 15.209 High Frequency - Peak | | | FCC 15.209 High Frequency - Average | | |
| | | | | | | | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| No emissions found in this range within 10dB of limit | | | | | | | | | | | | | | |
| Table Result: --- by --- dB Worst Freq: --- MHz | | | | | | | | | | | | | | |
| Test Site: EMI Chamber 1 | | | | | Cable 1: Asset #2051 | | | | | Cable 2: Asset #1784 | | | | |
| Analyzer: Asset #1328 | | | | | Preamp: Asset #1517 | | | | | Antenna: Blue Horn | | | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | | | | | Cable 3: --- | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | Preselector: --- | | | | |
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Rev. 7/4/2016

| | | | | | | | | | |
|--|--|-----------------|----------------|-------------------|--------------|--------------|------------|------------------------|----------------------|
| Spectrum Analyzers / Receivers/Preselectors | | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| SA EMI Chamber (1328) | | 9kHz-13.2 GHz | E4405B | Agilent | MY44210241 | 1328 | I | 2/26/2017 | 2/26/2016 |
| Radiated Emissions Sites | | FCC Code | IC Code | VCCI Code | Range | | Cat | Calibration Due | Calibrated on |
| EMI Chamber 1 | | 719150 | 2762A-6 | A-0015 | 30-1000MHz | | II | 3/21/2017 | 3/21/2015 |
| Preamps/Couplers Attenuators / Filters | | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| 1517 HF Preamp | | 1-20GHz | CS | CS | N/A | 1517 | II | 8/6/2016 | 8/6/2015 |
| Antennas | | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Blue Horn | | 1-18Ghz | 3117 | ETS | 157647 | 1861 | I | 2/8/2017 | 2/8/2015 |
| Meteorological Meters | | | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Weather Clock (Pressure Only) | | | BA928 | Oregon Scientific | C3166-1 | 831 | I | 4/28/2018 | 4/28/2016 |
| TH A#2080 | | | HTC-1 | HDE | | 2080 | II | 4/5/2017 | 4/5/2016 |
| Cables | | Range | | Mfr | | | Cat | Calibration Due | Calibrated on |
| Asset #1784 | | 9kHz - 18GHz | | Florida RF | | | II | 3/7/2017 | 3/7/2016 |
| Asset #2051 | | 9kHz - 18GHz | | Florida RF | | | II | 3/2/2017 | 3/2/2016 |

| Radiated Emissions Table | | | | | | | | | | | | | | | |
|--|-----------------|---------------------|------------------------|------------------------|-----------------------|-------------------|--------------------------------|---|----------------------------------|-------------|--------------------|-------------------------------------|-------------|--------------------|--|
| Date: 06-Sep-16 | | | | Company: DogWatch Inc. | | | | Work Order: Q1735 | | | | | | | |
| Engineer: Tuyen Truong | | | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6Vdc (Battery) | | | | | | | |
| Temp: 23°C | | | | Humidity: 50% | | | | Pressure: 1010mBar | | | | | | | |
| Frequency Range: 1 to 6 GHz | | | | | | | | Measurement Distance: 3m | | | | | | | |
| Notes: tx on high channel (927.9 MHz) - EUT S/N: 5 | | | | | | | | EUT Tx Freq: 902.1 to 927.9 MHz | | | | | | | |
| Antenna Polarization (H / V) | Frequency (MHz) | Peak Reading (dBµV) | Average Reading (dBµV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Peak Reading (dBµV/m) | Adjusted Avg Reading (dBµV/m) | FCC 15.209 High Frequency - Peak | | | FCC 15.209 High Frequency - Average | | | |
| | | | | | | | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | |
| h | 1855.8 | 32.53 | 22.6 | 19.7 | 30.9 | 3.2 | 46.9 | 37.0 | 74.0 | -27.1 | Pass | 54.0 | -17.0 | Pass | |
| v | 2783.7 | 32.65 | 23.9 | 20.9 | 33.0 | 4.4 | 49.2 | 40.4 | 74.0 | -24.8 | Pass | 54.0 | -13.6 | Pass | |
| v | 3711.6 | 34.4 | 26.3 | 19.9 | 33.4 | 5.5 | 53.4 | 45.3 | 74.0 | -20.6 | Pass | 54.0 | -8.7 | Pass | |
| h | 4639.5 | 34.1 | 25.3 | 18.6 | 34.3 | 6.0 | 55.8 | 47.0 | 74.0 | -18.2 | Pass | 54.0 | -7.0 | Pass | |
| h | 5567.4 | 35.2 | 26.8 | 18.3 | 34.9 | 6.8 | 58.6 | 50.2 | 74.0 | -15.4 | Pass | 54.0 | -3.8 | Pass | |
| Table Result: Pass by -3.8 dB Worst Freq: 5567.4 MHz | | | | | | | | | | | | | | | |
| Test Site: EMI Chamber 1 | | | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | | | Cable 3: --- | | | |
| Analyzer: Asset #1327 | | | | Preamp: Asset #1517 | | | | Antenna: Blue Horn | | | | Preselector: --- | | | |
| CSsoft Radiated Emissions Calculator v 1.017.171 | | | | | | | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | | | | |
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Radiated Emissions Table

| | | | | | | | | | | | | |
|--|--------------------|-------------------|------------------------|--------------------------|----------------------|------------------------------|---|----------------|-----------------------|-------------------|----------------------------------|-----------------------|
| Date: 06-Sep-16 | | | Company: DogWatch Inc. | | | | Work Order: Q1735 | | | | | |
| Engineer: Tuyen Truong | | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6Vdc (Battery) | | | | | |
| Temp: 23°C | | | Humidity: 50% | | | | Pressure: 1010mBar | | | | | |
| Frequency Range: 6 to 10 GHz | | | | | | | Measurement Distance: 1 m | | | | | |
| Notes: tx on high channel (927.9 MHz) - EUT S/N: 5 | | | | | | | | | | | | |
| Antenna Polarization (H / V) | Frequency (MHz) | Reading (dBµV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Reading (dBµV/m) | --- | | | FCC 15.209 | | |
| | | | | | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) |
| No emissions found in this range | | | | | | | | | | | | |
| Table Result: --- by --- dB | | | | | | | | | | | Worst Freq: --- MHz | |
| Test Site: EMI Chamber 1 | | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | | Cable 3: --- | | |
| Analyzer: Asset #1327 | | | Preamp: Asset #1517 | | | | Antenna: Blue Horn | | | Preselector: --- | | |
| CSsoft Radiated Emissions Calculator | | | v 1.017.171 | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | Copyright Curtis-Straus LLC 2000 | |

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| | | | | | | | | |
|--|-----------------|----------------|-------------------|--------------|--------------|------------|------------------------|----------------------|
| Spectrum Analyzers / Receivers / Preselectors | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| SA EMI Chamber (1327) | 9kHz-13.2 GHz | E4405B | Agilent | MY45103416 | 1327 | I | 8/4/2017 | 8/4/2016 |
| Radiated Emissions Sites | FCC Code | IC Code | VCCI Code | Range | | Cat | Calibration Due | Calibrated on |
| EMI Chamber 1 | 719150 | 2762A-6 | A-0015 | 1-18GHz | | I | 5/23/2017 | 5/23/2015 |
| Preamps / Couplers Attenuators / Filters | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| 1517 HF Preamp | 1-20GHz | CS | CS | N/A | 1517 | II | 8/14/2017 | 8/14/2016 |
| High Pass Filter | 0.03-9 GHz | VHP-16 | Mini-Circuits | NA | 1288 | II | 1/7/2017 | 1/7/2016 |
| Antennas | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Blue Horn | 1-18Ghz | 3117 | ETS | 157647 | 1861 | I | 2/8/2017 | 2/8/2015 |
| Meteorological Meters | | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Weather Clock (Pressure Only) | | BA928 | Oregon Scientific | C3166-1 | 831 | I | 4/28/2018 | 4/28/2016 |
| TH A#2080 | | HTC-1 | HDE | | 2080 | II | 4/5/2017 | 4/5/2016 |
| Cables | Range | | Mfr | | | Cat | Calibration Due | Calibrated on |
| Asset #1784 | 9kHz - 18GHz | | Florida RF | | | II | 3/7/2017 | 3/7/2016 |
| Asset #2051 | 9kHz - 18GHz | | Florida RF | | | II | 3/2/2017 | 3/2/2016 |

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



RX mode

Radiated Emissions Table

| Date: 20-Jul-16 | | Company: Dogwatch Inc. | | Work Order: Q1735 | | | | | | | | |
|--|--------------------|------------------------|-----------------------|--|----------------------|----------------------------------|-------------------|----------------|-----------------------|-------------------|----------------|-----------------------|
| Engineer: Ahmed Ahmed | | EUT Desc: SF-C10 | | EUT Operating Voltage/Frequency: 120Vac/60Hz | | | | | | | | |
| Temp: 22°C | | Humidity: 39% | | Pressure: 1002mBar | | | | | | | | |
| Frequency Range: 30-1000MHz | | | | Measurement Distance: 3m | | | | | | | | |
| Notes: RX mode, SN:59. | | | | EUT Max Freq: 27MHz | | | | | | | | |
| No emissions, noise floor peak readings. | | | | EUT TX Freq: 902.1 to 927.9 MHz | | | | | | | | |
| Antenna Polarization (H / V) | Frequency (MHz) | Reading (dBμV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Reading (dBμV/m) | --- | | | FCC 15.209 | | |
| | | | | | | | Limit (dBμV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBμV/m) | Margin (dB) | Result (Pass/Fail) |
| V | 42.1 | 34.0 | 25.2 | 12.4 | 0.5 | 21.7 | --- | --- | --- | 40.0 | -18.3 | Pass |
| V | 66.4 | 32.8 | 25.3 | 8.0 | 0.6 | 16.1 | --- | --- | --- | 40.0 | -23.9 | Pass |
| H | 66.4 | 23.4 | 25.3 | 8.0 | 0.6 | 6.7 | --- | --- | --- | 40.0 | -33.3 | Pass |
| V | 148.8 | 25.6 | 25.3 | 12.5 | 1.0 | 13.8 | --- | --- | --- | 43.5 | -29.7 | Pass |
| H | 493.2 | 23.8 | 25.4 | 18.0 | 1.7 | 18.1 | --- | --- | --- | 46.0 | -27.9 | Pass |
| H | 619.3 | 23.7 | 24.8 | 19.1 | 1.9 | 19.9 | --- | --- | --- | 46.0 | -26.1 | Pass |
| Table Result: Pass by -18.3 dB Worst Freq: 42.1 MHz | | | | | | | | | | | | |
| Test Site: EMI Chamber 1 | | Cable 1: Asset #2051 | | Cable 2: Asset #1784 | | | | | | | | |
| Analyzer: Asset #1328 | | Preamp: Blue-Blk | | Antenna: Red-Brown | | | | | | | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | Copyright Curtis-Straus LLC 2000 | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | |

Rev. 8/21/2016

| | | | | | | | | | |
|--|--|-----------------|----------------|-------------------|--------------|--------------|------------|------------------------|----------------------|
| Spectrum Analyzers / Receivers/Preselectors | | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| SA EMI Chamber (1328) | | 9kHz-13.2 GHz | E4405B | Agilent | MY44210241 | 1328 | I | 2/26/2017 | 2/26/2016 |
| Radiated Emissions Sites | | FCC Code | IC Code | VCCI Code | Range | | Cat | Calibration Due | Calibrated on |
| EMI Chamber 1 | | 719150 | 2762A-6 | A-0015 | 30-1000MHz | | II | 3/21/2017 | 3/21/2015 |
| Preamps/Couplers Attenuators / Filters | | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Blue-Black | | 0.009-2000MHz | ZFL-1000-LN | CS | N/A | 800 | II | 12/27/2016 | 12/27/2015 |
| Antennas | | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Red-Brown Bilog | | 30-2000MHz | JB1 | Sunol | A0032406 | 1218 | I | 12/4/2016 | 12/4/2014 |
| Meteorological Meters | | | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Weather Clock (Pressure Only) | | | BA928 | Oregon Scientific | C3166-1 | 831 | I | 4/28/2018 | 4/28/2016 |
| TH A#2080 | | | HTC-1 | HDE | | 2080 | II | 4/5/2017 | 4/5/2016 |
| Cables | | Range | | Mfr | | | Cat | Calibration Due | Calibrated on |
| Asset #1784 | | 9kHz - 18GHz | | Florida RF | | | II | 3/7/2017 | 3/7/2016 |
| Asset #2051 | | 9kHz - 18GHz | | Florida RF | | | II | 3/2/2017 | 3/2/2016 |

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Table

| | | | | | | | | | | | | | | | | | | | |
|--|--------------------|------------------------|---------------------------|---------------------------------|--------------------------|---|-----------------------------------|----------------------------------|----------------------------------|----------------|-----------------------|-------------------------------------|----------------|-----------------------|--|----------------------------------|--|-----|--|
| Date: 19-Jul-16 | | Company: DogWatch Inc. | | | | Work Order: Q1735 | | | | | | | | | | | | | |
| Engineer: Chris Bramley | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6Vdc | | | | | | | | | | | | | |
| Temp: 25.7°C | | Humidity: 37% | | | | Pressure: 1002mBar | | | | | | | | | | | | | |
| Frequency Range: 1-6GHz | | | | | | | | Measurement Distance: 3m | | | | | | | | | | | |
| Notes: SN:59 | | | | EUT Max Freq: 27MHz | | | | | | | | | | | | | | | |
| Rx Mode | | | | EUT TX Freq: 902.1 to 927.9 MHz | | | | | | | | | | | | | | | |
| Antenna Polarization (H/V) | Frequency (MHz) | Peak Reading (dBμV) | Average Reading (dBμV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Peak Reading (dBμV/m) | Adjusted Avg Reading (dBμV/m) | FCC 15.209 High Frequency - Peak | | | FCC 15.209 High Frequency - Average | | | | | | | |
| | | | | | | | | | Limit (dBμV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBμV/m) | Margin (dB) | Result (Pass/Fail) | | | | | |
| No emissions found | | | | | | | | | | | | | | | | | | | |
| Table Result: | | | | --- | | | | by | | --- | | dB | | Worst Freq: | | --- | | MHz | |
| Test Site: EMI Chamber 1 | | | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | | | | | | | | | | |
| Analyzer: Asset #1328 | | | | Preamp: Asset #1517 | | | | Antenna: Blue Horn | | | | | | | | | | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | | | | | | | | | | | Copyright Curtis-Straus LLC 2000 | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | | | | | | | | |

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Radiated Emissions Table

| | | | | | | | | | | | | | | | |
|--|--------------------|------------------------|---------------------------|-----------------------|--------------------------|---|-----------------------------------|----------------------------------|----------------------------------|---------------------|-----------------------|-------------------------------------|----------------|-----------------------|--|
| Date: 19-Jul-16 | | Company: Dogwatch Inc. | | | | Work Order: Q1735 | | | | | | | | | |
| Engineer: Tuyen Truong | | EUT Desc: SF-C10 | | | | EUT Operating Voltage/Frequency: 3.6V (battery) | | | | | | | | | |
| Temp: 22°C | | Humidity: 39% | | | | Pressure: 1015mBar | | | | | | | | | |
| Frequency Range: 6 to 10 GHz | | | | | | Measurement Distance: 1m | | | | | | | | | |
| Notes: RX mode (EUT SN# 59) | | | | | | EUT TX Frequencies: 902.1 to 927.9 MHz | | | | | | | | | |
| Antenna Polarization (H / V) | Frequency (MHz) | Peak Reading (dBµV) | Average Reading (dBµV) | Preamp Factor (dB) | Antenna Factor (dB/m) | Cable Factor (dB) | Adjusted Peak Reading (dBµV/m) | Adjusted Avg Reading (dBµV/m) | FCC 15.209 High Frequency - Peak | | | FCC 15.209 High Frequency - Average | | | |
| | | | | | | | | | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | Limit (dBµV/m) | Margin (dB) | Result (Pass/Fail) | |
| No emissions found in this range within 10dB of limit | | | | | | | | | | | | | | | |
| Table Result: | | --- | | by | | --- | | dB | | Worst Freq: --- MHz | | | | | |
| Test Site: EMI Chamber 1 | | | | Cable 1: Asset #2051 | | | | Cable 2: Asset #1784 | | | | Cable 3: --- | | | |
| Analyzer: Asset #1328 | | | | Preamp: Asset #1517 | | | | Antenna: Blue Horn | | | | Preselector: --- | | | |
| CSsoft Radiated Emissions Calculator v 1.017.165 | | | | | | | | | | | | | | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | | | | | | | | | | | | |
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| | | | | | | | | |
|--|-----------------|----------------|-------------------|--------------|--------------|------------|------------------------|----------------------|
| Spectrum Analyzers / Receivers / Preselectors | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| SA EMI Chamber (1328) | 9kHz-13.2 GHz | E4405B | Agilent | MY44210241 | 1328 | I | 2/26/2017 | 2/26/2016 |
| Radiated Emissions Sites | FCC Code | IC Code | VCCI Code | Range | | Cat | Calibration Due | Calibrated on |
| EMI Chamber 1 | 719150 | 2762A-6 | A-0015 | 30-1000MHz | | II | 3/21/2017 | 3/21/2015 |
| Preamps / Couplers Attenuators / Filters | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| 1517 HF Preamp | 1-20GHz | CS | CS | N/A | 1517 | II | 8/6/2016 | 8/6/2015 |
| Antennas | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Blue Horn | 1-18Ghz | 3117 | ETS | 157647 | 1861 | I | 2/8/2017 | 2/8/2015 |
| Meteorological Meters | | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Weather Clock (Pressure Only) | | BA928 | Oregon Scientific | C3166-1 | 831 | I | 4/28/2018 | 4/28/2016 |
| TH A#2080 | | HTC-1 | HDE | | 2080 | II | 4/5/2017 | 4/5/2016 |
| Cables | Range | | Mfr | | | Cat | Calibration Due | Calibrated on |
| Asset #1784 | 9kHz - 18GHz | | Florida RF | | | II | 3/7/2017 | 3/7/2016 |
| Asset #2051 | 9kHz - 18GHz | | Florida RF | | | II | 3/2/2017 | 3/2/2016 |

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AC Line Conducted Emissions LIMITS

| Frequency of emission (MHz) | Quasi-peak limit (dB μ V) | Average limit (dB μ V) |
|-----------------------------|-------------------------------|----------------------------|
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

N/A. EUT is battery powered only.

Occupied Bandwidth

REQUIREMENT

When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 6.6]

MEASUREMENTS / RESULTS

| 99% Occupied Bandwidth - Radiated Emissions Table | | | | |
|--|---------------------------|---------------------------|--|---|
| Date: 19-Jul-16 | | Company: Dogwatch Inc. | | Work Order: Q1735 |
| Engineer: Tuyen Truong | | EUT Desc: SF-C10 | | EUT Operating Voltage/Frequency: 3.6Vdc (battery) |
| Temp: 24°C | | Humidity: 45% | Pressure: 1002mBar | |
| Frequency Range: Fundamental Frequencies | | | Measurement Distance: 3m | |
| Notes: | | | EUT TX Frequencies: 902.1 to 927.9 MHz | |
| Antenna Polarization (H / V) | Channel / Frequency (MHz) | 99% OCC BW Readings (KHz) | | |
| h | 902.1 | 14.0651 | | |
| h | 915.1 | 14.0628 | | |
| h | 927.9 | 14.1219 | | |
| Test Site: EMI Chamber 1 | | Cable 1: Asset #2051 | Cable 2: Asset #1784 | Cable 3: --- |
| Analyzer: Asset #1328 | | Preamp: none | Antenna: Red-Brown | Preselector: --- |
| CSsoft Radiated Emissions Calculator | | v 1.017.165 | | |
| Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor | | | | |
| Copyright Curtis-Straus LLC 2000 | | | | |

Rev. 7/4/2016

| Spectrum Analyzers / Receivers / Preselectors | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
|---|---------------|-----------|---------------------|------------|-------|-----|-----------------|---------------|
| SA EMI Chamber (1328) | 9kHz-13.2 GHz | E4405B | Agilent | MY44210241 | 1328 | I | 2/26/2017 | 2/26/2016 |
| Radiated Emissions Sites | FCC Code | IC Code | VCCI Code | Range | | Cat | Calibration Due | Calibrated on |
| EMI Chamber 1 | 719150 | 2762A-6 | A-0015 | 30-1000MHz | | II | 3/21/2017 | 3/21/2015 |
| Preamps / Couplers Attenuators / Filters | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| none (n/a) | | | | | | | | |
| Antennas | Range | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| Red-Brown Bilog | 30-2000MHz | JB1 | Sunol | A0032406 | 1218 | I | 12/4/2016 | 12/4/2014 |
| Meteorological Meters | | MN | Mfr | SN | Asset | Cat | Calibration Due | Calibrated on |
| TH A#2080 | | HTC-1 | HDE | 2080 | 2080 | II | 4/5/2017 | 4/5/2016 |
| Barometric A#2160 | | 5396-0321 | Monarch Instruments | 4000060 | 2160 | I | 3/7/2017 | 3/7/2016 |
| Cables | Range | | Mfr | | | Cat | Calibration Due | Calibrated on |
| Asset #1784 | 9kHz - 18GHz | | Florida RF | | | II | 3/7/2017 | 3/7/2016 |
| Asset #2051 | 9kHz - 18GHz | | Florida RF | | | II | 3/2/2017 | 3/2/2016 |

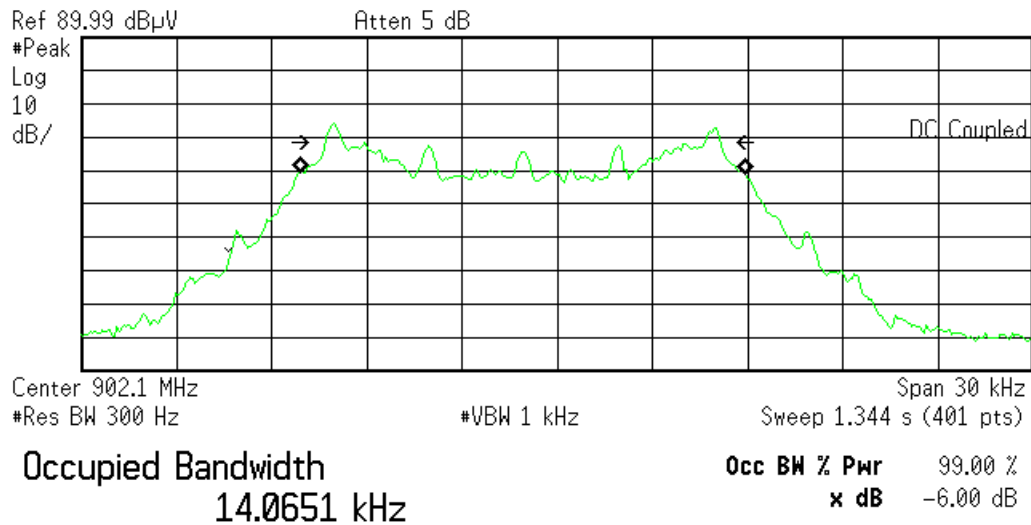
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Plot(s)

Agilent 11:23:35 Jul 19, 2016

R T



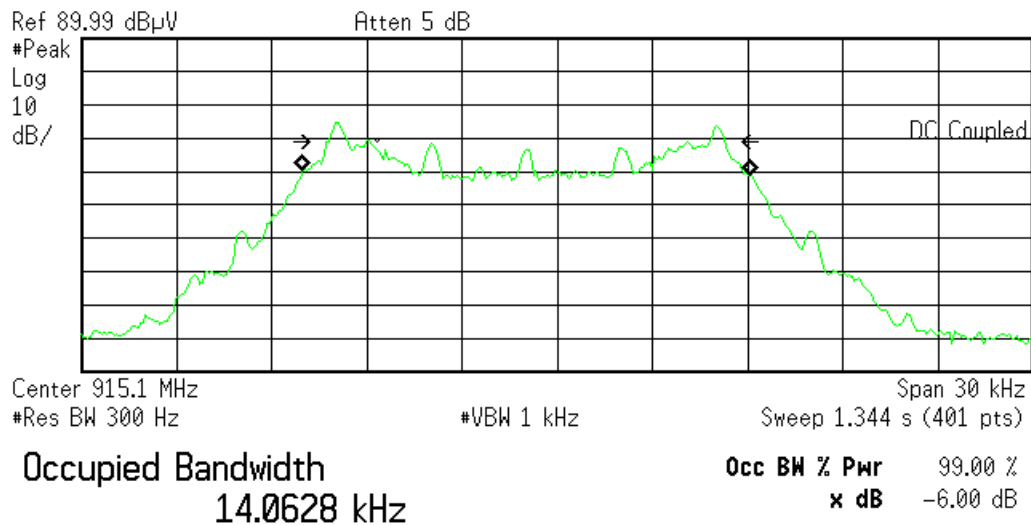
Transmit Freq Error -1.086 kHz
x dB Bandwidth 12.488 kHz

C:\temp.gif file saved

Occupied Bandwidth - Low Channel (902.1 MHz)

Agilent 10:57:29 Jul 19, 2016

R T



Transmit Freq Error -963.911 Hz
x dB Bandwidth 12.572 kHz

C:\temp.gif file saved

Occupied Bandwidth - Mid channel (915.1 MHz)



Agilent 11:58:34 Jul 19, 2016

R T

Mkr1 927.894000 MHz

64.78 dBμV

Ref 89.99 dBμV

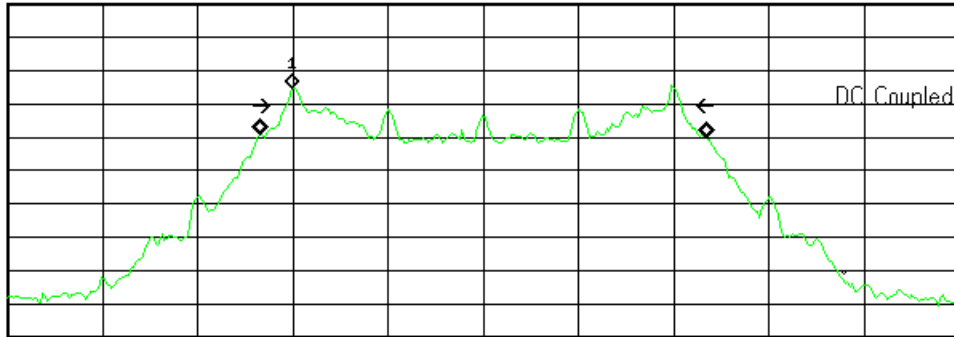
Atten 5 dB

#Peak

Log

10

dB/



Center 927.9 MHz

#Res BW 300 Hz

#VBW 1 kHz

Span 30 kHz

Sweep 1.344 s (401 pts)

Occupied Bandwidth

14.1219 kHz

Occ BW % Pwr 99.00 %

x dB -6.00 dB

Transmit Freq Error 10.300 Hz

x dB Bandwidth 12.481 kHz

C:\temp.gif file saved

Occupied Bandwidth - High Channel (927.9 MHz)

Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

| Measurement | Expanded Uncertainty k=2 | Maximum allowable uncertainty |
|---|--------------------------|-------------------------------|
| Radiated Emissions (30-1000MHz) | | |
| NIST | 5.6dB | N/A |
| CISPR | 4.6dB | 5.2dB (Ucisp) |
| Radiated Emissions (1-26.5GHz) | 4.6dB | N/A |
| Radiated Emissions (above 26.5GHz) | 4.9dB | N/A |
| Magnetic Radiated Emissions | 5.6dB | N/A |
| Conducted Emissions | | |
| NIST | 3.9dB | N/A |
| CISPR | 3.6dB | 3.6dB (Ucisp) |
| Telco Conducted Emissions (Current) | 2.9dB | N/A |
| Telco Conducted Emissions (Voltage) | 4.4dB | N/A |
| Electrostatic Discharge | 11.5% | N/A |
| Radiated RF Immunity (Uniform Field) | 1.6dB | N/A |
| Electrical Fast Transients | 23.1% | N/A |
| Surge | 23.1% | N/A |
| Conducted RF Immunity | 3dB | N/A |
| Magnetic Immunity | 12.8% | N/A |
| Dips and Interrupts | 2.3V | N/A |
| Harmonics | 3.5% | N/A |
| Flicker | 3.5% | N/A |
| Radio frequency (@ 2.4GHz) | 3.23×10^{-8} | 1×10^{-7} |
| RF power, conducted | 0.40dB | 0.75dB |
| Maximum frequency deviation: | | |
| • Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency | 3.4% 0.3dB | 5% 3dB |
| Adjacent channel power | 1.9dB | 3dB |
| Conducted spurious emission of transmitter, valid up to 12.75GHz | 2.39dB | 3dB |
| Conducted emission of receivers | 1.3dB | 3dB |
| Radiated emission of transmitter, valid up to 26.5GHz | 3.9dB | 6dB |
| Radiated emission of transmitter, valid up to 80GHz | 3.3dB | 6dB |
| Radiated emission of receiver, valid up to 26.5GHz | 3.9dB | 6dB |
| Radiated emission of receiver, valid up to 80GHz | 3.3dB | 6dB |
| Humidity | 2.37% | 5% |
| Temperature | 0.7°C | 1.0°C |
| Time | 4.1% | 10% |
| RF Power Density, Conducted | 0.4dB | 3dB |
| DC and low frequency voltages | 1.3% | 3% |
| Voltage (AC, <10kHz) | 1.3% | 2% |
| Voltage (DC) | 0.62% | 1% |
| The above reflects a 95% confidence level | | |



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Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPs," "MTL," "ACTS," "MTL-ACTS" and "CURTIS-STRAUS" (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only where such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.



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13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.

15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B) NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.

17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

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