

UL LLC 333 Pfingsten Rd. Northbrook, IL 60062

www.ul.com/emc (847) 272-8800

Job Number: 1001499549

Project Number: 12CA21441

File Number: MC17070

Date: April 23, 2012

Model: CMAP Pro

Electromagnetic Compatibility Test Report

For

Med-Tek LLC

Copyright © 2012 UL LLC

UL LLC authorizes the above-named company to reproduce this Report provided it is reproduced in its entirety.

Job Number: 1001499549 File Number: MC17070 Page 2 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Test Report Details

Tests Performed By: UL LLC

333 Pfingsten Rd. Northbrook, IL 60062

Tests Performed For: Med-Tek LLC

2665 South Bayshore Dr.

Suite 502

Coconut Grove, FL 33133

Applicant Contact: Martin Rodriquez
Phone: (866) 930-2627

E-mail: mrodriguez@med-tek.com

Test Report Date: April 23, 2012

Product Type: Medical with transmitter

Product standards FCC Part 15.27(d)

Model Number: CMAP Pro

Sample Serial Number: Prototype

EUT Category: Medical with transmitter

Testing Start Date: April 13, 2012

Date Testing Complete: April 16, 2012

Overall Results: Compliant

UL LLC reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL LLC shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL LLC issued reports. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

File Number: MC17070 3 of 49 Page

Job Number: **CMAP Pro** Model Number: Client Name: Med-Tek LLC

1001499549

Report Directory

| 1.0 | G E N E R A L - Product Description | 4 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1.1 | Equipment Description | 4 |
| 1.2 | Equipment Marking Plate | 4 |
| 1. 1. | Device Configuration During Test .3.1 Equipment Used During Test: .3.2 Input/Output Ports: .3.3 EUT Internal Operating Frequencies: .3.4 Power Interface: | 5 5 6 |
| 1.4 | EUT Configurations | 7 |
| 1.5 | EUT Operation Modes | 7 |
| 1.6 | Rational for EUT Configuration | 7 |
| 2.0 | Summary | 8 |
| 2.1 | Deviations from standard test methods | 8 |
| 2.2 | Device Modifications Necessary for Compliance | 8 |
| 2.3 | Reference Standards | 9 |
| 2.4 | Results Summary | 9 |
| 3.0 | Calibration of Equipment Used for Measurement | 10 |
| 4.0 | EMISSIONS TEST RESULTS | 10 |
| 4.1 | Test Conditions and Results – RADIATED EMISSIONS | 11 |
| 4.2 | Test Conditions and Results – BAND EDGE COMPLIANCE | 29 |
| 5.0 | IMMUNITY TEST RESULTS | 47 |
| Append | dix A | 48 |
| Accr | reditations and Authorizations | 48 |

Job Number: 1001499549 File Number: MC17070 Page 4 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Report Revision History

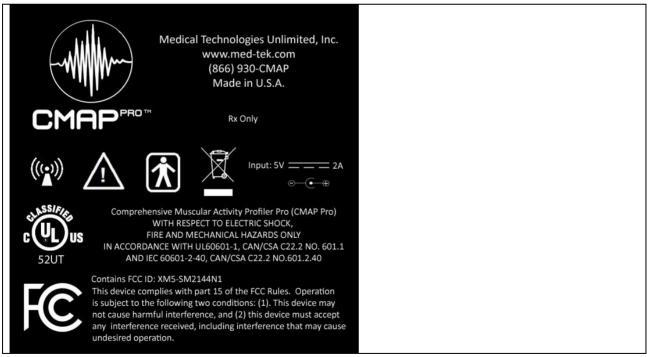
| Revision Date | Description | Revised By | Revision Reviewed By |
|------------------|-------------|------------|-------------------------|
| None | | | |

1.0 GENERAL-Product Description

1.1 Equipment Description

Medical Equipment containing a 802.11bg modular transmitter. The purpose of this report is to check the Radiated Spurious Emissions due to the modular being placed in a new host. Only Radiated and Bandedge Emissions were performed per the manufacturer request.

1.2 Equipment Marking Plate



Job Number: 1001499549 File Number: MC17070 Page 5 of 49

CMAP Pro Model Number: Client Name: Med-Tek LLC

1.3 **Device Configuration During Test**

1.3.1 **Equipment Used During Test:**

| Use | Product Type | Manufacturer | Model | Comments |
|-------------------------------------------------------------------------------------------------------------------|----------------|--------------|-------|----------|
| EUT | Main Unit | MTU | POD | None |
| AE | Patient grip | MTU | FCE | None |
| AE | Patient Motion | MTU | ROM | None |
| AE | Patient sEMG | MTU | EMG | None |
| Note: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test) | | | | |

1.3.2 **Input/Output Ports:**

| Port # | Name | Type* | Cable Max. >3m (Y/N) | Cable Shielded (Y/N) | Comments |
|--------|-----------|-------|----------------------------|----------------------------|---------------------------|
| 0 | Enclosure | N/E | _ | _ | None |
| 1 | Mains | AC | N | N | Connects to AC/DC adapter |
| 2 | EMG | IO | N | Y | None |
| 3 | FCE | Ю | N | Y | None |
| 4 | MT1/ROM | Ю | N | Y | None |

Note:

= AC Power Port DC = DC Power Port N/E = Non-Electrical

AC I/O = Signal Input or Output Port (Not Involved in Process Control)
= Telecommunication Ports

Job Number: 1001499549 File Number: MC17070 Page 6 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

1.3.3 EUT Internal Operating Frequencies:

| Frequency (MHz) | Description |
|-----------------|----------------------|
| 12 | Wifi |
| 12 | Microcontroller/CPLD |
| 2400 | Wifi transmission |

1.3.4 Power Interface:

| Mode # /Rated | Voltage (V) | Current (A) | Power (W) | Frequency (DC/AC-Hz) | Phases (#) | Comments |
|---------------------|---------------------|----------------|--------------|-------------------------|---------------|----------|
| 1 | Battery Operated | - | - | | | None |

.

Job Number: 1001499549 File Number: MC17070 Page 7 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

1.4 EUT Configurations

| | Mode # | Description |
|------------------------------------------------|--------|----------------------------------------------|
| 1 EUT was configured with all cables connected | | EUT was configured with all cables connected |

1.5 EUT Operation Modes

| Mode # | Description |
|--------|-----------------------------------------------------------|
| 1 | EUT was set to 11b 1Mbps, 11g 6Mbps. Hi, Mid, Low channel |

1.6 Rational for EUT Configuration

| Mode # | Description |
|--------|-----------------------------------------------------------------|
| 1 | The selected EUT configuration was chosen to maximize emissions |

Job Number: 1001499549 File Number: MC17070 Page 8 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

2.0 Summary

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL LLC in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

| 2.1 | Deviations from standard test methods | | | | |
|-----|-----------------------------------------------|--|--|--|--|
| | None | | | | |
| | | | | | |
| 2.2 | Device Modifications Necessary for Compliance | | | | |
| | None | | | | |

Job Number: 1001499549 File Number: MC17070 Page 9 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

2.3 Reference Standards

| Standard Number | Standard Number Standard Name | |
|--------------------|---------------------------------------------------------------|------|
| FCC Part 15.247(d) | Code of Federal Regulations, Part 15, Radio Frequency Devices | 2010 |

2.4 Results Summary

This product is considered Class B

| Requirement – Test | Result (Compliant / Non- Compliant)* |
|--------------------|-----------------------------------------|
| Radiated Emissions | Compliant |
| Bandedge | Compliant |

Test Engineer:

Reviewer:

Michael Ferrer (Ext.41312) Senior Project Engineer International EMC Services Conformity Assessment Services Bartlomiej Mucha(Ext.41216) Staff Engineer International EMC Services Conformity Assessment Services

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Job Number: 1001499549 File Number: MC17070 Page 10 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

3.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

4.0 EMISSIONS TEST RESULTS

| The emissions tests were performed according to following regulations: | | | | | | | | |
|------------------------------------------------------------------------|----------------|--|--|--|--|--|--|--|
| United States | | | | | | | | |
| Code of Federal Regulations Title 47 | Part 15.247(d) | | | | | | | |

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

| Ambient | oient 22.5 ± 2.5 | | Relative 45 ± 15 | | 950 ± 150 |
|-----------------|------------------|-------------|------------------|----------------|-----------|
| Temperature, °C | 22.5 ± 2.5 | Humidity, % | 45 ± 15 | Pressure, mBar | 950 ± 150 |

Sample Calculations

Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:

Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB) Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB) Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

Job Number: 1001499549 File Number: MC17070 Page 11 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

4.1 Test Conditions and Results - RADIATED EMISSIONS

| ı | est |
|---|-------------|
| С | Description |

T--4

Measurements were made in a 10 meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 and 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.

| Basic Standard | FCC Part 15.247(d) | | | | |
|--------------------------------------------------------------------|--------------------|---------------------------------|--|--|--|
| UL LPG | 80-EM-S0029 | | | | |
| | Frequency range | Measurement Point | | | |
| Fully configured sample scanned over the following frequency range | 30MHz – 1GHz | (10 meter measurement distance) | | | |
| Fully configured sample scanned over the following frequency range | 1GHz – 25GHz | (3 meter measurement distance) | | | |

Limits - Class B

| | Limit (dBµV/m) | | | | | |
|-----------------|----------------|-----------------|--|--|--|--|
| Frequency (MHz) | Quasi-Peak | Average | | | | |
| 30 - 88 | 40 | NA | | | | |
| 88 - 216 | 43.5 | NA | | | | |
| 216 - 960 | 46 | NA | | | | |
| 960 - 1000 | 54 | NA | | | | |
| Above 960 (FCC) | NA | 54 (at 3-meter) | | | | |

Supplementary information: Preliminary testing shows Y axis was the worst case configuration. Plots for 30-1000, Limit shown will be QP limit. During Preliminary scan any peaks found within 6dB will be measured using QP detector. Only very close Emissions were repeated for HI and Low channel, otherwise 11bg CH 6 will contain all QP measurements.

Job Number: 1001499549 File Number: MC17070 Page 12 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Table 1 Radiated Emissions EUT Configuration Settings

| Power Interface Mode # | EUT Configurations Mode # | EUT Operation Mode # | | |
|---------------------------------|---------------------------|----------------------|--|--|
| 1 | 1 | 1 | | |
| Supplementary information: None | | | | |

Table 2 Radiated Emissions Test Equipment

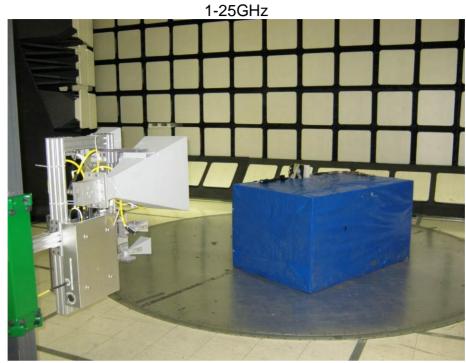
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due Date |
|-------------------|-----------------|----------|------------|-------------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESU | EMC4323 | Dec 28 2011 | Dec 31 2012 |
| Bicon Antenna | Chase | VBA6106A | EMC4078 | 20120117 | 20130131 |
| Log-P Antenna | Chase | UPA6109 | EMC4313 | 20110929 | 20120629 |
| Spectrum Analyzer | Rhode & Schwarz | FSEK | EMC4182 | 20111227 | 20121231 |
| Antenna Array | UL | BOMS | EMC4276 | 20111227 | 20121231 |

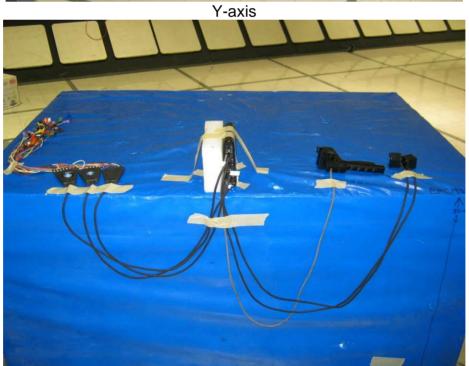
Figure 1 Test setup for Radiated Emissions



Job Number: 1001499549 File Number: MC17070 Page 13 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

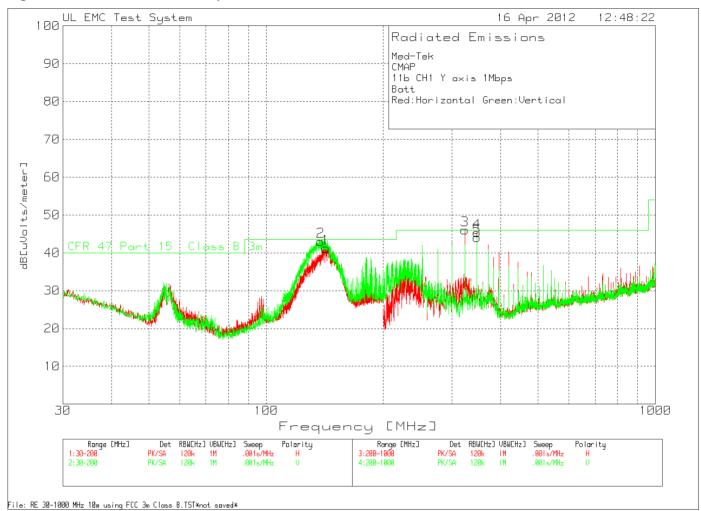




Job Number: 1001499549 File Number: MC17070 Page 14 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 2 Radiated Emissions Graph



Job Number: 1001499549 File Number: MC17070 Page 15 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP 11b CH1 Y axis 1Mbps Batt Red:Horizontal Green:Vertical

| Test Frequency | Meter Reading | Detector | Antenna Factor | Gain/Loss Factor | 10m to 3m [dB] | dB[uVolts/meter] | CFR 47 Part 15 Class B 3m | Margin | Height [cm] | Polarity | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------|--------------------|------------------------|-------------------------|---------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------|------------------|--------------------------|--------------------------|
| 142.2289 | 45.72 | PK | 14.4 | -29.4 | 10.5 | 41.22 | 43.5 | -2.28 | 400 | Horz | |
| 137.8111 | 47.74 | PK | 14.2 | -29.4 | 10.5 | 43.04 | 43.5 | -0.46 | 99 | Vert | |
| 323.9174 | 54.66 | PK | 13.6 | -32.7 | 10.5 | 46.06 | 46 | 0.06 | 299 | Horz | |
| 347.9014 | 52.58 | PK | 14.7 | -32.4 | 10.5 | 45.38 | 46 | -0.62 | 299 | Horz | |
| 347.9014 | 51.3 | PK | 14.7 | -32.4 | 10.5 | 44.1 | 46 | -1.9 | 99 | Vert | |
| \$25.50 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$45.60 \$4 | 55 75 75 Meter Reading | 을 <mark>공</mark> Detector | 9. Shitenna Factor | 2. 2. Gain/Loss Factor | 10.46 10.46 10.46 | 7 7 8 5 9 4 dB[uVolts/meter] | B B CFR 47 Part 15 Class B 3m | 6.0- 8.0- 8.0- 8.0- 8.0- 8.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9.0- 9 | 6 Azimuth [Degs] | 282 212 213 214 | ZioH ZioH Polarity |
| 347.9904 | 53.22 | QP | 14.7 | -32.4 | 10.46 | 45.98 | 46 | -0.02 | 116 | 217 | Horz |

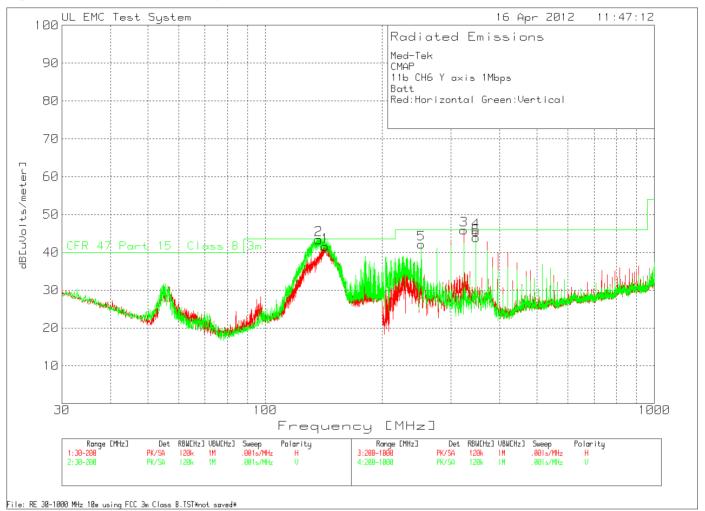
PK - Peak detector

QP - Quasi-Peak detector

Job Number: 1001499549 File Number: MC17070 Page 16 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 3 Radiated Emissions Graph



Job Number: 1001499549 File Number: MC17070 Page 17 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek
CMAP
11b CH6 Y axis 1Mbps
Batt
Red:Horizontal Green:Vertical

| 142.5687 Test Frequency | 99 99 Meter Reading 34 Detector | 5. 5. Antenna Factor | o 6 6 7 6 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10m to 3m [dB] | 41. 41.7 dB[uVolts/meter] | ප දු CFR 47 Part 15 Class B 3m | Margin | & G Height [cm] T | Zo Polarity | |
|----------------------------|---------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|--------------------------------------|--------|-------------------------|-------------|----------|
| 137.2164 | 48.06 PK | 14.2 | -29.4 | 10.5 | 43.36 | 43.5 | -0.14 | 99 V | /ert | |
| 323.9174 | 54.48 PK | 13.6 | -32.7 | 10.5 | 45.88 | 46 | -0.12 | 299 F | lorz | |
| 347.9014 | 52.65 PK | 14.7 | -32.4 | 10.5 | 45.45 | 46 | -0.55 | 299 F | lorz | |
| 251.9654 | 52.85 PK | 11.9 | -33.1 | 10.5 | 42.15 | 46 | -3.85 | 99 V | /ert | |
| 347.9014 | 51.14 PK | 14.7 | -32.4 | 10.5 | 43.94 | 46 | -2.06 | 99 V | /ert | |
| Test Frequency | Meter Reading Detector | Antenna Factor | Gain/Loss Factor | 10m to 3m [dB] | dB[uVolts/meter] | CFR 47 Part 15 Class B 3m | Margin | Azimuth [Degs] | Height [cm] | Polarity |
| 140.7869 | 44.65 QP | 14.3 | -29.4 | 10.5 | 40.05 | 43.5 | -3.45 | 270 | 397 F | lorz |
| 136.9326 | 46.67 QP | 14.2 | -29.4 | 10.5 | 41.97 | 43.5 | -1.53 | 99 | 100 V | /ert |
| 347.9888 | 52.66 QP | 14.7 | -32.4 | 10.5 | 45.46 | 46 | -0.54 | 103 | 216 H | lorz |
| 323.992 | 54.43 QP | 13.6 | -32.7 | 10.5 | 45.83 | 46 | -0.17 | 106 | | |
| | 34.43 QI | | | | | | | 253 100 Vert | | |
| 347.9888 | 50.29 QP | 14.7 | -32.4 | 10.5 | 43.09 | 46 | -2.91 | 253 | 100 V | ert/ |

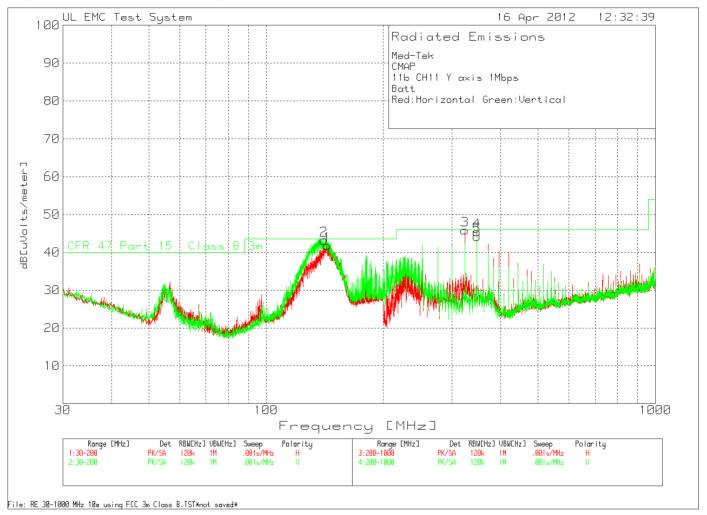
PK - Peak detector

QP - Quasi-Peak detector

Job Number: 1001499549 File Number: MC17070 Page 18 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 4 Radiated Emissions Graph



Job Number: 1001499549 File Number: MC17070 Page 19 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek
CMAP
11b CH11 Y axis
1Mbps
Batt
Red:Horizontal Green:Vertical

| Test Frequency | Meter Reading | Detector | Antenna Factor | Gain/Loss Factor | 10m to 3m [dB] | dB[uVolts/meter] | CFR 47 Part 15 Class B 3m | Margin | Height [cm] | Polarity | |
|----------------------------|-------------------------|--------------|---------------------------|----------------------|-------------------|-----------------------------|-------------------------------|-------------------------|--------------------|------------------------|---------------|
| 143.4183 | 46.33 | PK | 14.4 | -29.4 | 10.5 | 41.83 | 43.5 | -1.67 | 400 | Horz | |
| 140.7846 | 47.84 | PK | 14.3 | -29.4 | 10.5 | 43.24 | 43.5 | -0.26 | 99 | Vert | |
| 323.9174 | 54.45 | PK | 13.6 | -32.7 | 10.5 | 45.85 | 46 | -0.15 | 299 | Horz | |
| 347.9014 | 52.59 | PK | 14.7 | -32.4 | 10.5 | 45.39 | 46 | -0.61 | 299 | Horz | |
| 347.9014 | 51.39 | PK | 14.7 | -32.4 | 10.5 | 44.19 | 46 | -1.81 | 99 | Vert | |
| 323.9888 Test Frequency | 5 45 8 Meter Reading | , 공 Detector | 13.5 9. Antenna Factor | b c Gain/Loss Factor | 99 10m to 3m [dB] | 7 5 7 6 dB[uVolts/meter] | S & CFR 47 Part 15 Class B 3m | 90.0- 90.0- 90.0- | 1 C Azimuth [Degs] | 274 274 Height [cm] | z zo Polarity |
| 347.9888 | 53 | QP | 14.7 | -32.4 | 10.46 | 45.76 | 46 | -0.24 | 115 | 218 | Horz |

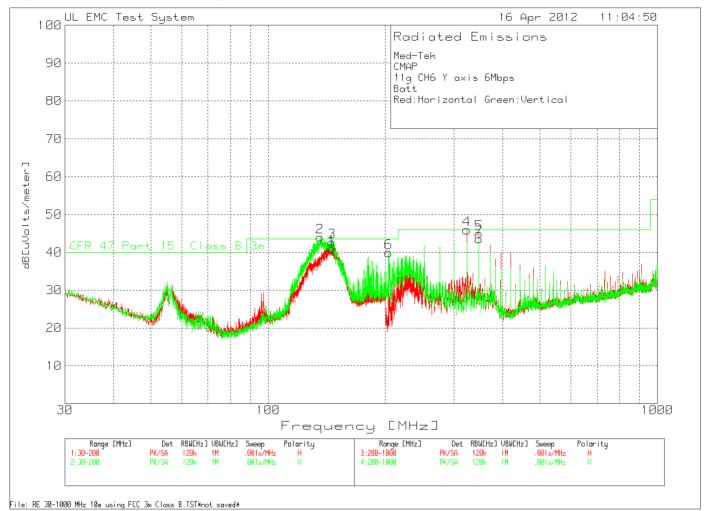
PK - Peak detector

QP - Quasi-Peak detector

Job Number: 1001499549 File Number: MC17070 Page 20 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 5 Radiated Emissions Graph



Job Number: 1001499549 File Number: MC17070 Page 21 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP 11g CH6 Y axis 6Mbps Batt Red:Horizontal Green:Vertical

| 145.7971 135.942 145.8821 323.9174 347.9014 203.9973 347.9014 | 98 84 84 84 84 84 84 84 84 84 84 84 84 84 | уч уч уч уч уч уч уч уч уч уч уч уч уч у | 2.41 2.42 4.5 13.6 14.7 10.9 14.7 | -29.4 -29.4 -29.4 -32.7 -32.4 -33.4 -32.4 | 10.5 10.5 10.5 10.5 10.5 10.5 | 41.03 42.73 45.96 44.95 39.95 43.54 | 9 5 5 5 CFR 47 Part 15 Class B 3m | .iga be W -2.47 0.5 -0.77 -0.04 -1.05 -3.55 -2.46 | 99 300 300 99 99 | Horz Vert Horz Horz Vert Vert | |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 147.4844 136.9376 146.659 347.9984 323.9888 203.9936 347.992 | 43.84 46.77 45.07 52.52 54.16 51.21 50.43 | ද ද ද ද ද ද Detector | 2.41 2.42 4.5 14.5 13.6 10.9 14.7 | -29.4 -29.4 -32.4 -32.7 -33.4 -32.4 | 10.5 10.5 10.5 10.5 10.5 10.5 | 39.44 42.07 40.67 45.56 45.56 39.21 43.23 | 9 5 5 5 CFR 47 Part 15 Class B 3m | -4.06 -1.43 -2.83 -0.68 -0.44 -4.29 -2.77 | 762 763 764 765 766 766 766 766 766 766 766 766 766 | [cm] 400 102 105 249 297 101 100 | Advised to the second s |

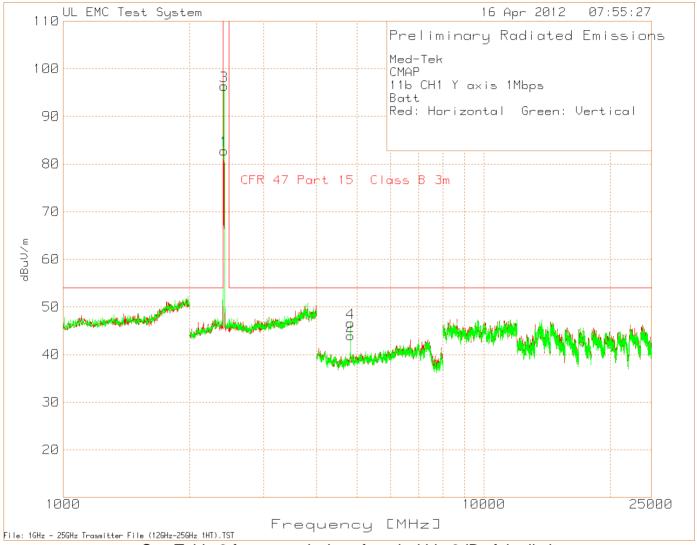
PK - Peak detector

QP - Quasi-Peak detector

Job Number: 1001499549 File Number: MC17070 Page 22 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 6 Radiated Emissions Graph

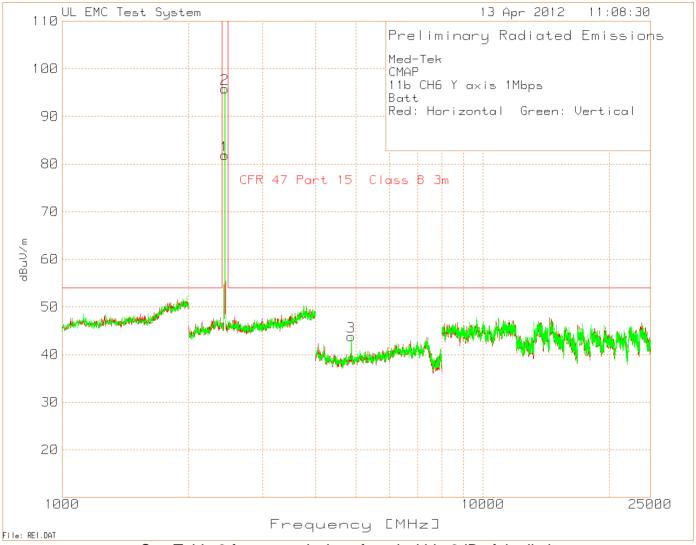


See Table 3 for any emissions found within 6dB of the limit

Job Number: 1001499549 File Number: MC17070 Page 23 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 7 Radiated Emissions Graph

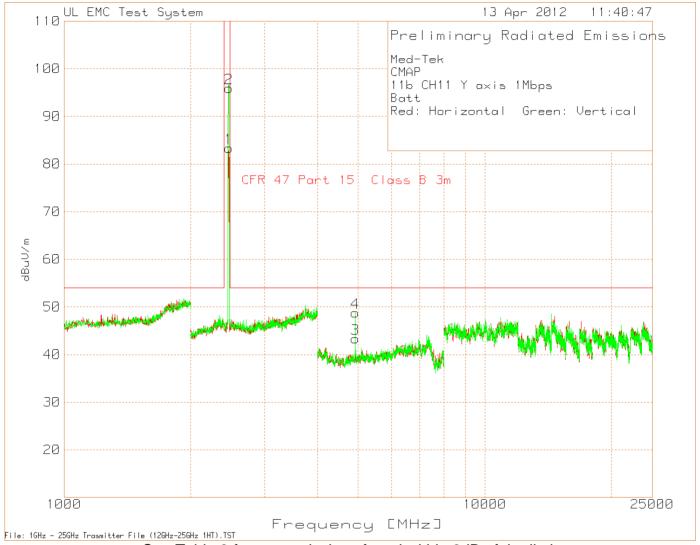


See Table 3 for any emissions found within 6dB of the limit

Job Number: 1001499549 File Number: MC17070 Page 24 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 8 Radiated Emissions Graph

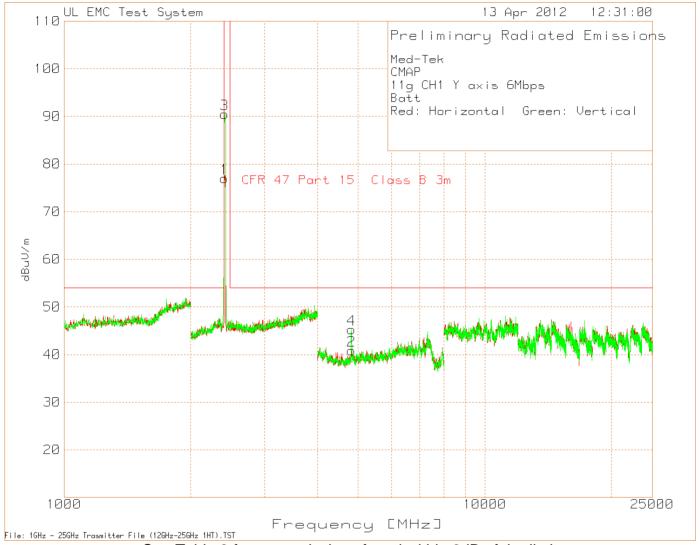


See Table 3 for any emissions found within 6dB of the limit

Job Number: 1001499549 File Number: MC17070 Page 25 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 9 Radiated Emissions Graph

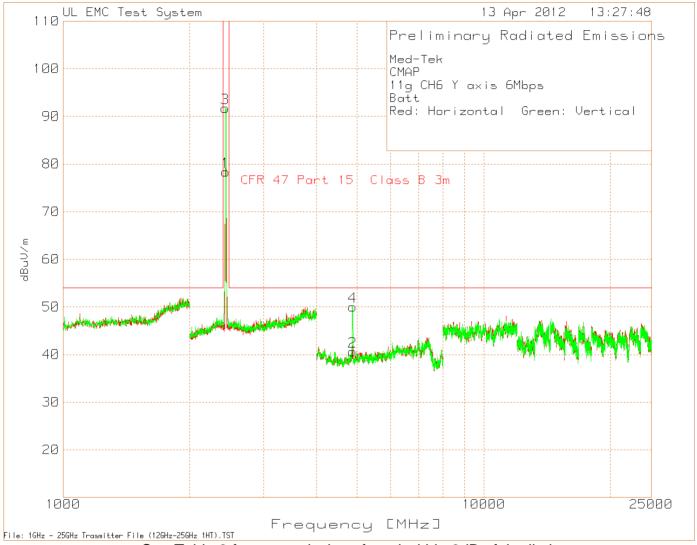


See Table 3 for any emissions found within 6dB of the limit

Job Number: 1001499549 File Number: MC17070 Page 26 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 10 Radiated Emissions Graph

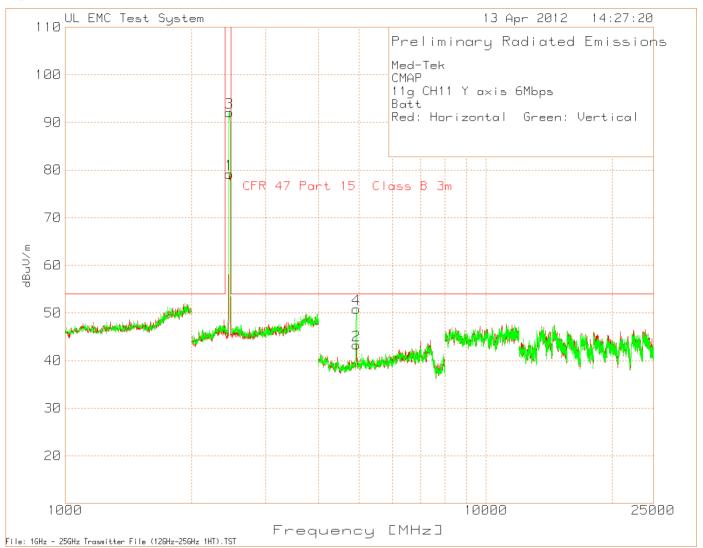


See Table 3 for any emissions found within 6dB of the limit

Job Number: 1001499549 File Number: MC17070 Page 27 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 11 Radiated Emissions Graph



Job Number: 1001499549 File Number: MC17070 Page 28 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Table 3 Radiated Emissions Data Points

Med-Tek CMAP

Batt

Red: Peak Green: AV

| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | m/VwBb | CFR 47 Part 15 Class B 3m | Margin | Azimuth [Degs] | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|---------------------------|--------|----------------|-------------|----------|
| CH11 11b | | | | | | | | | | |
| 4924.0371 | 74.53 | PK | 27.8 | -51.83 | 50.5 | 74 | -23.5 | 146 | 107 | Vert |
| 4924.0571 | 72 | LnAv | 27.8 | -51.83 | 47.97 | 54 | -6.03 | 146 | 107 | Vert |
| CH11 11g | | | | | | | | | | |
| 4921.8036 | 75.86 | PK | 27.8 | -51.88 | 51.78 | 74 | -22.22 | 125 | 109 | Vert |
| 4924.1283 | 59 | LnAv | 27.8 | -51.83 | 34.97 | 54 | -19.03 | 125 | 109 | Vert |
| CH6 11g | | | | | | | | | | |
| 4872.511 | 74.46 | PK | 27.7 | -51.18 | 50.98 | 74 | -23.02 | 115 | 119 | Vert |
| 4875.978 | 55.38 | LnAv | 27.7 | -51.17 | 31.91 | 54 | -22.09 | 115 | 119 | Vert |

PK - Peak detector

Av - Average detector

Job Number: 1001499549 File Number: MC17070 Page 29 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

4.2 Test Conditions and Results – BAND EDGE COMPLIANCE

| ı | est | |
|---|--------|-------|
| С | Descri | ption |

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section15.205(c)).

| 13.203(a) (300 000101113.203(b)). | | | | | | | | |
|--------------------------------------------------------------------|----------------------------------------------------------------|-------------------|--|--|--|--|--|--|
| Basic Standard | 47 CFR Part 15.247(d) | | | | | | | |
| | RSS-210, A8. | 5 | | | | | | |
| | Frequency range | Measurement Point | | | | | | |
| Fully configured sample scanned over the following frequency range | 2400MHz – 2483.5MHz | Radiated | | | | | | |
| | Limits | | | | | | | |
| Measurement Type | | | | | | | | |
| Radiated | Radiated only required if emissions are in the restricted band | | | | | | | |
| Supplementary information: None | | | | | | | | |

Table 4 Band Edge Compliance EUT Configuration Settings

| Power Interface Mode # | EUT Configurations Mode # | EUT Operation Mode # | | | | | | | |
|---------------------------------|---------------------------|----------------------|--|--|--|--|--|--|--|
| 1 | 1 | 1 | | | | | | | |
| Supplementary information: None | | | | | | | | | |

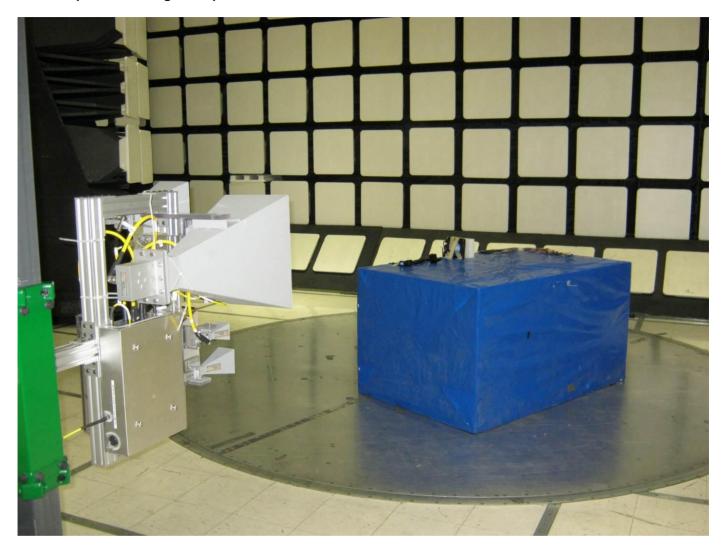
Table 5 Band Edge Compliance Test Equipment

| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due Date |
|-------------------|-----------------|-------|------------|-----------|---------------|
| Spectrum Analyzer | Rhode & Schwarz | FSEK | EMC4182 | 20111227 | 20121231 |
| Antenna Array | UL | BOMS | EMC4276 | 20111227 | 20121231 |

Job Number: 1001499549 File Number: MC17070 Page 30 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Test setup for Band Edge Compliance



Job Number: 1001499549 File Number: MC17070 Page 31 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Figure 12 Radiated Emissions Band Edge Compliance Graph



Job Number: 1001499549 File Number: MC17070 Page 32 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP 11b CH1 Y axis 1Mbps

Batt

Red: Peak Green: AV

Peak 2370 - 2430MHz

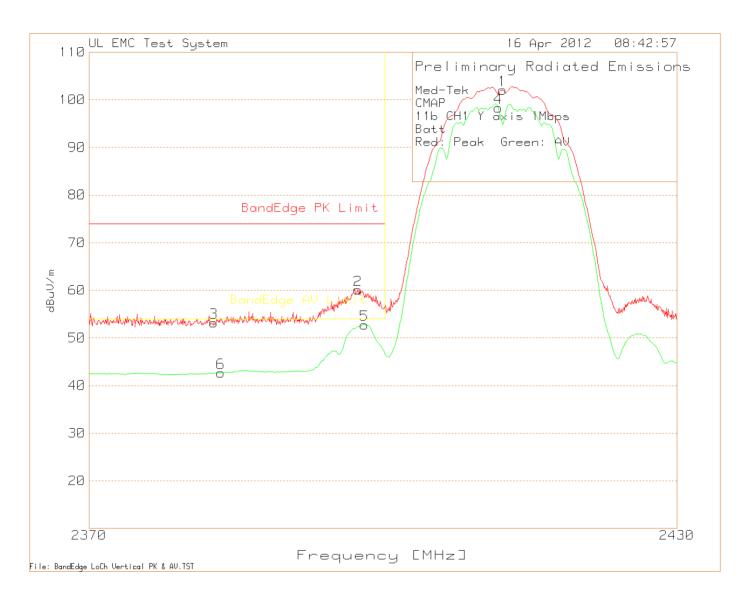
| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limit | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|-------------------|--------|-------------|----------|
| 2411.982 | 62.12 | PK | 21.8 | 3.89 | 87.81 | - | - | - | - | 100 | Horz |
| 2401.351 | 27.54 | PK | 21.8 | 4.28 | 53.62 | - | - | - | - | 100 | Horz |
| 2397.508 | 28.71 | PK | 21.8 | 4.37 | 54.88 | 74 | -19.12 | - | - | 100 | Horz |
| 2386.517 | 26.7 | PK | 21.8 | 4.42 | 52.92 | 74 | -21.08 | - | - | 150 | Horz |
| 2411.622 | 58.75 | ΑV | 21.8 | 3.9 | 84.45 | - | - | - | - | 99 | Horz |
| 2400.39 | 15.62 | ΑV | 21.8 | 4.3 | 41.72 | - | - | - | - | 99 | Horz |
| 2397.267 | 17.03 | ΑV | 21.8 | 4.38 | 43.21 | - | - | 54 | -10.79 | 99 | Horz |
| 2385.676 | 15.4 | ΑV | 21.8 | 4.41 | 41.61 | - | - | 54 | -12.39 | 99 | Horz |

PK - Peak detector

Av - Average detector

Job Number: 1001499549 File Number: MC17070 Page 33 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC



Job Number: 1001499549 File Number: MC17070 Page 34 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP

11b CH1 Y axis 1Mbps

Batt

Red: Peak Green: AV

Peak 2370 - 2430MHz

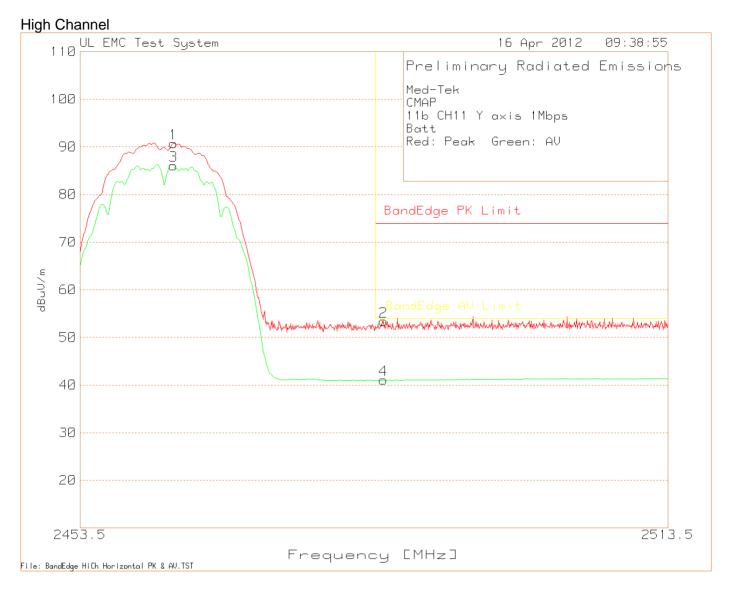
| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limit | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|-------------------|--------|-------------|----------|
| 2412.042 | 76.33 | PK | 21.8 | 3.89 | 102.02 | - | - | - | - | 99 | Vert |
| 2397.267 | 33.89 | PK | 21.8 | 4.38 | 60.07 | - | - | - | - | 99 | Vert |
| 2382.613 | 27.08 | PK | 21.8 | 4.35 | 53.23 | 74 | -20.77 | - | - | 150 | Vert |
| 2411.622 | 72.57 | ΑV | 21.8 | 3.9 | 98.27 | - | - | - | - | 101 | Vert |
| 2397.928 | 26.64 | ΑV | 21.8 | 4.36 | 52.8 | - | - | - | - | 101 | Vert |
| 2383.333 | 16.55 | ΑV | 21.8 | 4.37 | 42.72 | - | - | 54 | -11.28 | 101 | Vert |

PK - Peak detector

Av - Average detector

Job Number: 1001499549 File Number: MC17070 Page 35 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC



Job Number: 1001499549 File Number: MC17070 Page 36 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP

11b CH11 Y axis 1Mbps

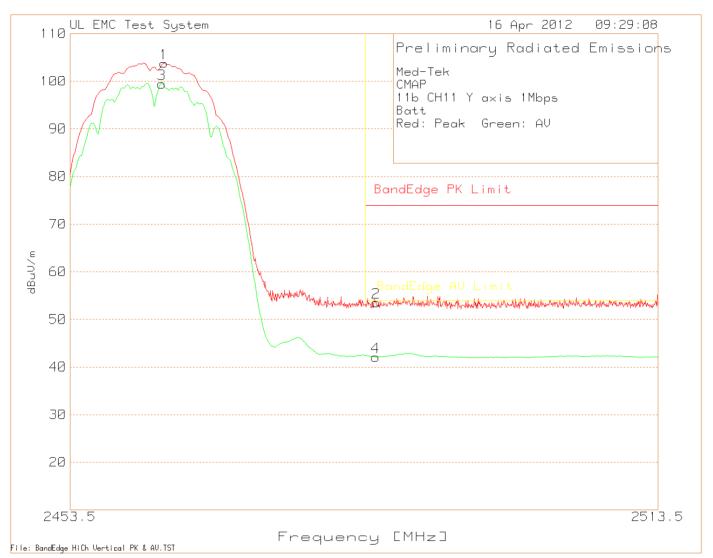
Batt

Red: Peak Green: AV

Peak 2370 - 2430MHz

| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limi | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|------------------|--------|-------------|----------|
| 2462.929 | 64.6 | PK | 22 | 4.08 | 90.68 | - | - | - | - | 100 | Horz |
| 2484.311 | 27.51 | PK | 22.1 | 3.77 | 53.38 | 74 | -20.62 | - | - | 100 | Horz |
| 2462.929 | 60.04 | ΑV | 22 | 4.08 | 86.12 | - | - | - | - | 99 | Horz |
| 2484.311 | 15.17 | ΑV | 22.1 | 3.77 | 41.04 | _ | _ | 54 | -12.96 | 99 | Horz |

PK - Peak detector Av - Average detector Job Number: 1001499549 File Number: MC17070 Page 37 of 49



Job Number: 1001499549 File Number: MC17070 Page 38 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP

11b CH11 Y axis 1Mbps

Batt

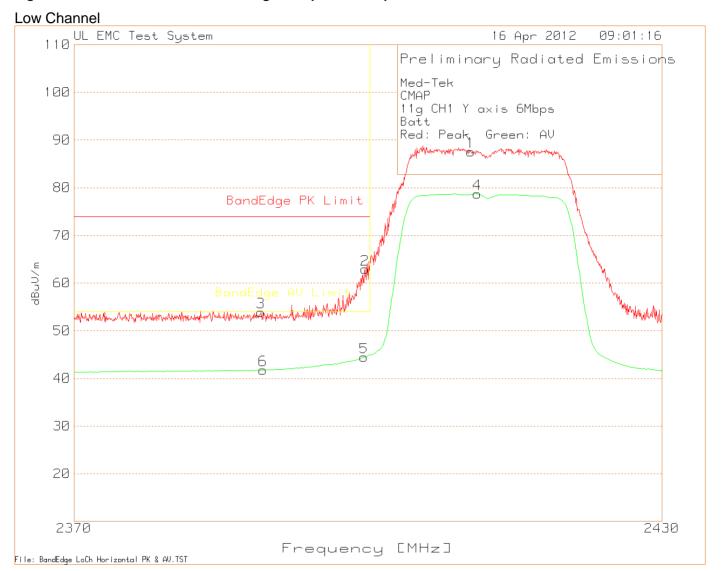
Red: Peak Green: AV

Peak 2370 - 2430MHz

| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limit | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|-------------------|--------|-------------|----------|
| 2462.989 | 77.73 | PK | 22 | 4.08 | 103.81 | - | - | - | - | 102 | Vert |
| 2484.551 | 27.66 | PK | 22.1 | 3.77 | 53.53 | 74 | -20.47 | - | - | 102 | Vert |
| 2462.779 | 73.39 | ΑV | 22 | 4.08 | 99.47 | - | - | - | - | 101 | Vert |
| 2484.521 | 16.26 | ΑV | 22.1 | 3.77 | 42.13 | - | _ | 54 | -11.87 | 101 | Vert |

PK - Peak detector Av - Average detector Job Number: 1001499549 File Number: MC17070 Page 39 of 49

Figure 13 Radiated Emissions Band Edge Compliance Graph



Job Number: 1001499549 File Number: MC17070 Page 40 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP

11g CH1 Y axis 6Mbps

Batt

Red: Peak Green: AV

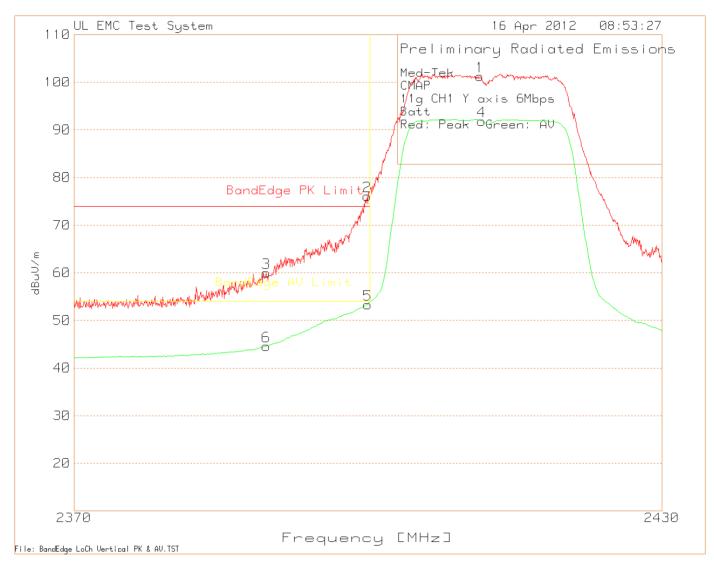
Peak 2370 - 2430MHz

| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limit | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|-------------------|--------|-------------|----------|
| 2410.36 | 61.81 | PK | 21.8 | 3.95 | 87.56 | - | - | - | - | 99 | Horz |
| 2399.55 | 36.78 | PK | 21.8 | 4.32 | 62.9 | - | - | - | - | 99 | Horz |
| 2388.919 | 27.64 | PK | 21.8 | 4.46 | 53.9 | 74 | -20.1 | - | - | 150 | Horz |
| 2411.021 | 52.95 | ΑV | 21.8 | 3.93 | 78.68 | - | - | - | - | 99 | Horz |
| 2399.429 | 18.3 | ΑV | 21.8 | 4.33 | 44.43 | - | - | - | - | 99 | Horz |
| 2389.159 | 15.53 | ΑV | 21.8 | 4.47 | 41.8 | - | - | 54 | -12.2 | 99 | Horz |

PK - Peak detector

Av - Average detector

Job Number: 1001499549 File Number: MC17070 Page 41 of 49



Job Number: 1001499549 File Number: MC17070 Page 42 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP

11g CH1 Y axis 6Mbps

Batt

Red: Peak Green: AV

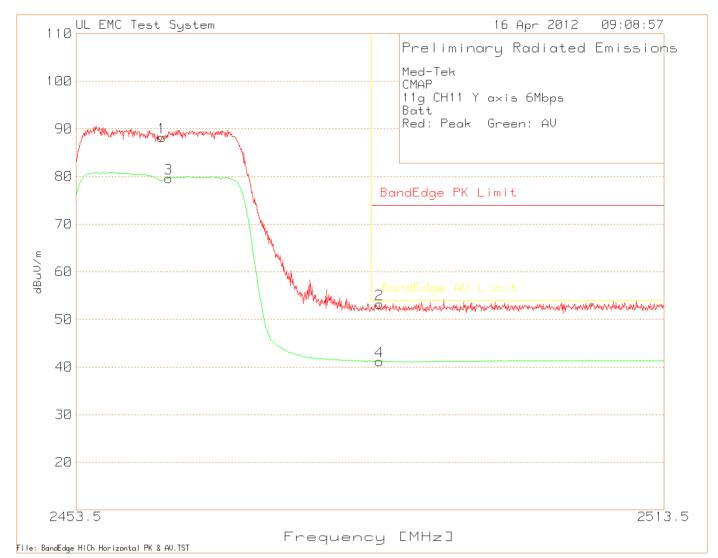
Peak 2370 - 2430MHz

| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limit | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|-------------------|--------|-------------|----------|
| 2411.261 | 75.52 | PK | 21.8 | 3.92 | 101.24 | - | - | - | - | 101 | Vert |
| 2399.73 | 50.01 | PK | 21.8 | 4.32 | 76.13 | - | - | - | - | 101 | Vert |
| 2389.459 | 33.76 | PK | 21.8 | 4.47 | 60.03 | 74 | -13.97 | - | - | 101 | Vert |
| 2411.441 | 66.18 | ΑV | 21.8 | 3.91 | 91.89 | - | - | - | - | 100 | Vert |
| 2399.79 | 27.25 | ΑV | 21.8 | 4.32 | 53.37 | - | - | - | - | 100 | Vert |
| 2389.459 | 18.34 | ΑV | 21.8 | 4.47 | 44.61 | - | - | 54 | -9.39 | 100 | Vert |

PK - Peak detector

Av - Average detector

Job Number: 1001499549 File Number: MC17070 Page 43 of 49



Job Number: 1001499549 File Number: MC17070 Page 44 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP

11g CH11 Y axis 6Mbps

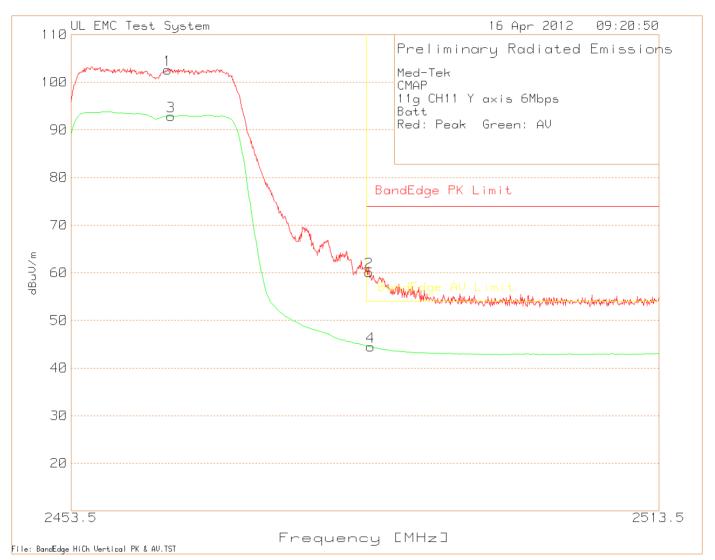
Batt

Red: Peak Green: AV

Peak 2370 - 2430MHz

| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limi | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|------------------|--------|-------------|----------|
| 2462.209 | 62.09 | PK | 22 | 4.1 | 88.19 | - | - | - | - | 99 | Horz |
| 2484.311 | 27.38 | PK | 22.1 | 3.77 | 53.25 | 74 | -20.75 | - | - | 99 | Horz |
| 2462.869 | 53.58 | ΑV | 22 | 4.08 | 79.66 | - | - | - | - | 99 | Horz |
| 2484.311 | 15.33 | ΑV | 22.1 | 3.77 | 41.2 | - | - | 54 | -12.8 | 99 | Horz |

PK - Peak detector Av - Average detector Job Number: 1001499549 File Number: MC17070 Page 45 of 49



Job Number: 1001499549 File Number: MC17070 Page 46 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Med-Tek CMAP

11g CH11 Y axis 6Mbps

Batt

Red: Peak Green: AV

Peak 2370 - 2430MHz

| Test Frequency | Meter Reading | Detector | Antenna Factor | BOMS Factor [dB] | dBuV/m | BandEdge PK Limit | Margin | BandEdge AV Limit | Margin | Height [cm] | Polarity |
|----------------|---------------|----------|----------------|------------------|--------|-------------------|--------|-------------------|--------|-------------|----------|
| 2463.29 | 76.57 | PK | 22 | 4.07 | 102.64 | - | - | - | - | 101 | Vert |
| 2483.77 | 34.22 | PK | 22.1 | 3.77 | 60.09 | 74 | -13.91 | - | - | 101 | Vert |
| 2463.59 | 66.82 | ΑV | 22 | 4.06 | 92.88 | - | - | - | - | 101 | Vert |
| 2483.89 | 18.59 | ΑV | 22.1 | 3.77 | 44.46 | - | _ | 54 | -9.54 | 101 | Vert |

PK - Peak detector Av - Average detector Job Number: 1001499549 File Number: MC17070 Page 47 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

5.0 IMMUNITY TEST RESULTS

The immunity tests were not performed nor were required per the standard.

Job Number: 1001499549 File Number: MC17070 Page 48 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC

Appendix A

Accreditations and Authorizations



NVLAP Lab code: 100414-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see http://ts.nist.gov/standards/scopes/1004140.htm



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91044).



Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2180



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: Radiated Emissions R-621, Conducted Emissions C-642.

Job Number: 1001499549 File Number: MC17070 Page 49 of 49

Model Number: CMAP Pro Client Name: Med-Tek LLC



ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).





NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 2004/108/EC, Annex III (2-3). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6