

**FCC 15.209 & RSS-216
(Class II Permissive Change)
Wireless Power Transfer Report**

**for
A
Acer Incorporated**

**8F., No.88, Sec. 1, Xintai 5th Rd., Xizhi,
New Taipei City 22181, Taiwan (R.O.C)**

**Product Name : WPC Module
Model Name : WCPTI-S
Brand : acer
FCC ID : HLZWPC2
IC : 1754F-WPC2**

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



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APPENDIX A TEST DATA AND PLOTS
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TEST REPORT CERTIFICATION (Class II Permissive Change)

Applicant : Acer Incorporated
Manufacture : Golden Elite Technology (SHENZHEN) CO., LTD.
EUT Description
(1) Product : WPC Module
(2) Model : WCPTI-S
(3) Brand : acer

Applicable Standards:

47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 4), November 2014
RSS-216 (Issue 2), January 2016
ANSI C63.10:2013

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2017. 09. 29

Reviewed by: Annie Yu (Annie Yu/Administrator)

Approved by: Ben Cheng (Ben Cheng/Manager)

1. REVISION RECORD OF TEST REPORT

| Edition No | Issued Data | Revision Summary | Report Number |
|------------|--------------|------------------|---------------|
| 0 | 2017. 09. 29 | Original Report | EM-F170622 |

2. SUMMARY OF TEST RESULTS

| Rule | | Description | Results |
|------------|--------------|-------------------------|-------------------|
| FCC | IC | | |
| 15.207 | RSS-Gen §8.8 | Conducted Emission | PASS |
| 15.209 | RSS-Gen §8.9 | Radio Spurious Emission | PASS |
| 15.215 (c) | --- | 20dB Bandwidth | PASS |
| --- | RSS-Gen §6.6 | 99dB Bandwidth | PASS |
| 15.203 | RSS-Gen §8.3 | Antenna Requirement | Compliance |

3. GENERAL INFORMATION

3.1. Description of Application

| | |
|-------------|--|
| Applicant | Acer Incorporated 8F., No.88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C) |
| Manufacture | Golden Elite Technology (SHENZHEN) CO., LTD. No.1, Nan-Huan Rd., ShaJing, BaoAn, Shenzhen, China |
| Product | WPC Module |
| Model | WCPTI-S |
| Brand | acer |

3.2. Description of EUT

| | |
|------------------------------------|---|
| Test Model | WCPTI-S |
| Serial Number | N/A |
| Power Rating | DC 19V |
| RF Features | Wireless Power Transfer |
| WPC device or system that includes | Component: Wireless module ; Type: Category I |
| Host | Host Name: Personal Computer, Host Brand: acer Host Model: D17W8 |
| Accessories | N/A |
| Date of Receipt | 2017. 09. 20 |
| Date of Test | 2017. 09. 25 ~ 26 |

3.3. Information for Class II Change Permissive

| Item | Original | Class II Change Permissive |
|--|---|---|
| Host | Host Name: Personal Computer Host Brand: acer Host Model: D17E3 | Host Name: Personal Computer Host Brand: acer Host Model: D17W8 |
| The EUT is an addition version with original FCC ID: HLZWPC2 and IC: 1754F-WPC2. | | |

3.4. EUT Specifications Assessed in Current Report

| Mode | Fundamental Range (MHz) | Modulation |
|------|-------------------------|------------|
| WPC | 110-205 kHz | FSK |

3.5. Antenna Information

| No. | Antenna Part Number | Manufacture | Antenna Type | Frequency (MHz) | Max Gain (dBi) |
|-----|---------------------|-------------|--------------|-----------------|----------------|
| 1 | --- | --- | Loop | --- | --- |

3.6. Description of Key Components

None.

3.7. Test Configuration

| AC Conduction | |
|---------------|------------------|
| Test Case | Normal operation |

| Item | Mode | Test Frequency |
|--|------|----------------|
| Radiated Test Case Radiated Spurious Emission | WPC | 127kHz |
| Conducted Test Case 20dB Bandwidth | WPC | 127kHz |

Note 1:

Mobile Device:

Portable Device, and 3 axis were assessed.

Lie

Side

Stand

3.8. Tested Supporting System List

3.8.1. Support Peripheral Unit

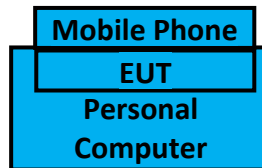
| No. | Product | Brand | Model No. | Serial No. | Approval |
|-----|-------------------|---------|-------------|------------|-----------------------|
| 1. | Personal Computer | acer | D17W8 | N/A | FCC by DoC |
| 2. | Mobile Phone | SAMSUNG | SM-G9208/SS | N/A | FCC ID: A3LSMG920F |

3.8.2. Cable Lists

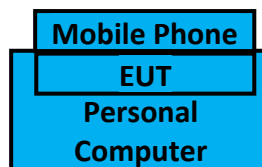
| No. | Cable Description Of The Above Support Units |
|-----|--|
| 1. | AC Adapter: acer, M/N PA-1131-16 DC Power Cord: Unshielded, Detachable, 1.5m AC Power Cord: Unshielded, Undetachable, 1.8m |
| 2. | N/A |

3.9. Setup Configuration

3.9.1. For AC Conduction Test



3.9.2. For Radiated Spurious Emission Test



3.10. Operating Condition of EUT

To Set EUT on RF function under continues transmitting.

3.11. Description of Test Facility

| | |
|-------------------|---|
| Name of Test Firm | Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: sales@audixtech.com |
| Accreditations | The laboratory is accredited by following organizations under ISO/IEC 17025:2005 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724 (3) FCC OET Designation No. TW1004 & TW1090 |
| Test Facilities | (1) No. 7 Shielding Room (2) Semi-Anechoic Chamber (IC Test Site Registration No.: 5183B-1) (3) Fully Anechoic Chamber (IC Test Site Registration No.: 5183B-4) |

3.12. Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty |
|----------------------------------|-----------------|-------------|
| Conduction Test | 150kHz~30MHz | ±3.50dB |
| Radiation Test (Distance: 3m) | 30MHz~1000MHz | ± 3.68dB |
| | Above 1GHz | ± 5.82dB |

Remark : Uncertainty = $ku_c(y)$

| Test Item | Uncertainty |
|----------------|-------------|
| 20dB Bandwidth | ± 0.2kHz |

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

| Item | Type | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|------|---------------|--------------|-----------|------------|--------------|----------|
| 1. | Test Receiver | R&S | ESCI | 101276 | 2017. 03. 23 | 1 Year |
| 2. | A.M.N. | R&S | ESH2-Z5 | 100366 | 2017. 07. 20 | 1 Year |
| 3. | L.I.S.N. | Kyoritsu | KNW-407 | 8-1539-3 | 2017. 01. 13 | 1 Year |
| 4. | Pulse Limiter | R&S | ESH3-Z2 | 101495 | 2017. 01. 16 | 1 Year |
| 5. | Test Software | Audix | e3 | V.6.120424 | N.C.R. | N.C.R. |

4.2. Radiated Emission Measurement

| Item | Type | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|------|-------------------|--------------|------------|------------|--------------|----------|
| 1. | Spectrum Analyzer | Agilent | N9010A-526 | MY53400071 | 2017. 09. 13 | 1 Year |
| 2. | Test Receiver | R & S | ESCS30 | 100338 | 2017. 06. 19 | 1 Year |
| 3. | Amplifier | HP | 8447D | 2944A06305 | 2017. 02. 16 | 1 Year |
| 4. | Bilog Antenna | TESEQ | CBL6112D | 33821 | 2017. 01. 21 | 1 Year |
| 5. | Loop Antenna | R&S | HFH2-Z2 | 891847/27 | 2016. 12. 23 | 1 Year |
| 6. | Test Software | Audix | e3 | V.6.110601 | N.C.R. | N.C.R. |

4.3. RF Radiated Measurement

| Item | Type | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|------|-------------------|--------------|------------|------------|--------------|----------|
| 1. | Spectrum Analyzer | Agilent | N9010A-526 | MY53400071 | 2017. 09. 13 | 1 Year |
| 3. | Amplifier | HP | 8447D | 2944A06305 | 2017. 02. 16 | 1 Year |
| 4. | Bilog Antenna | TESEQ | CBL6112D | 33821 | 2017. 01. 21 | 1 Year |
| 6. | Test Software | Audix | e3 | V.6.110601 | N.C.R. | N.C.R. |

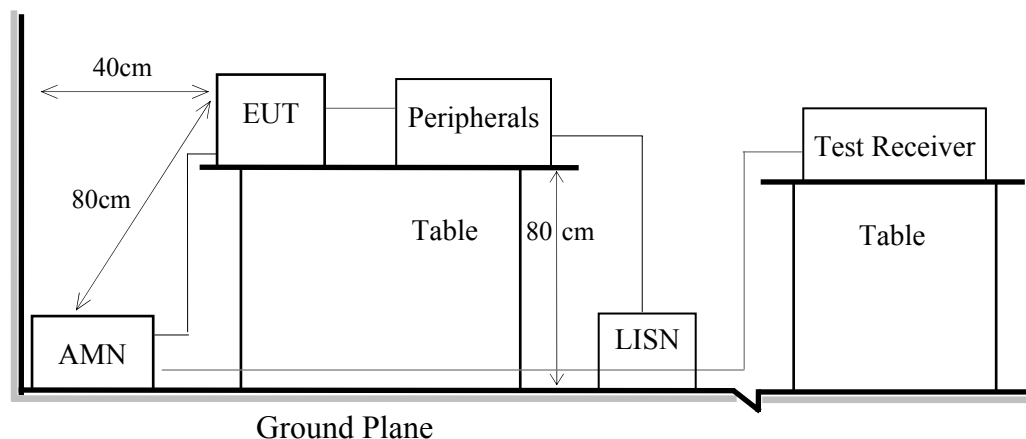
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.8

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

| Frequency | Conducted Limit | |
|-----------------|--------------------|--------------------|
| | Quasi-Peak Level | Average Level |
| 150kHz ~ 500kHz | 66 ~ 56 dB μ V | 56 ~ 46 dB μ V |
| 500kHz ~ 5MHz | 56 dB μ V | 46 dB μ V |
| 5MHz ~ 30MHz | 60 dB μ V | 50 dB μ V |

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

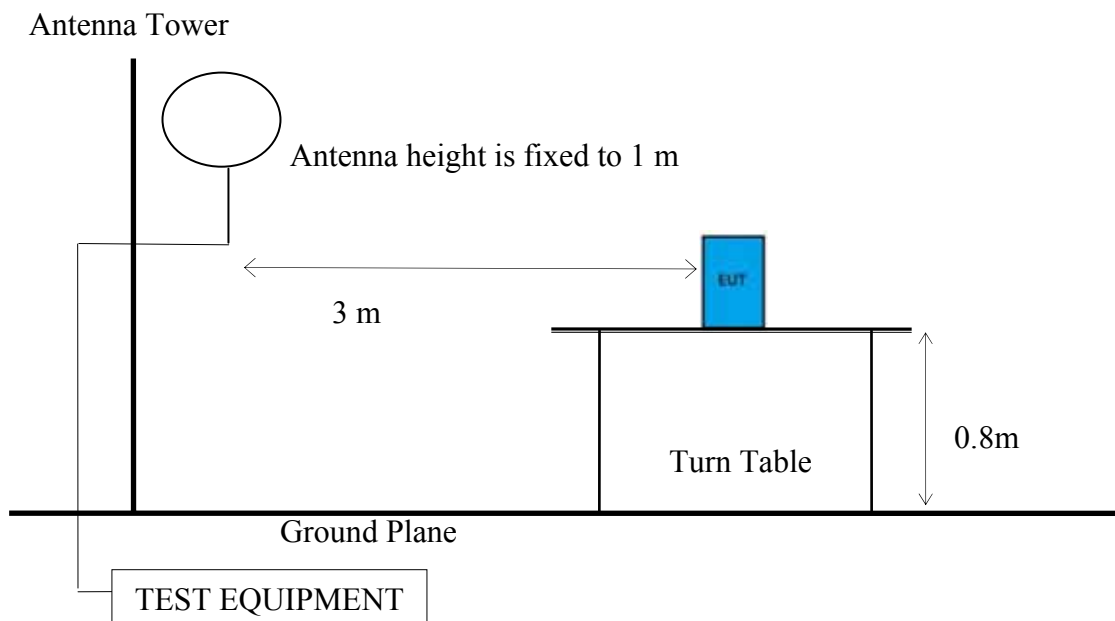
6. RADIATED SPURIOUS EMISSION

6.1. Block Diagram of Test Setup

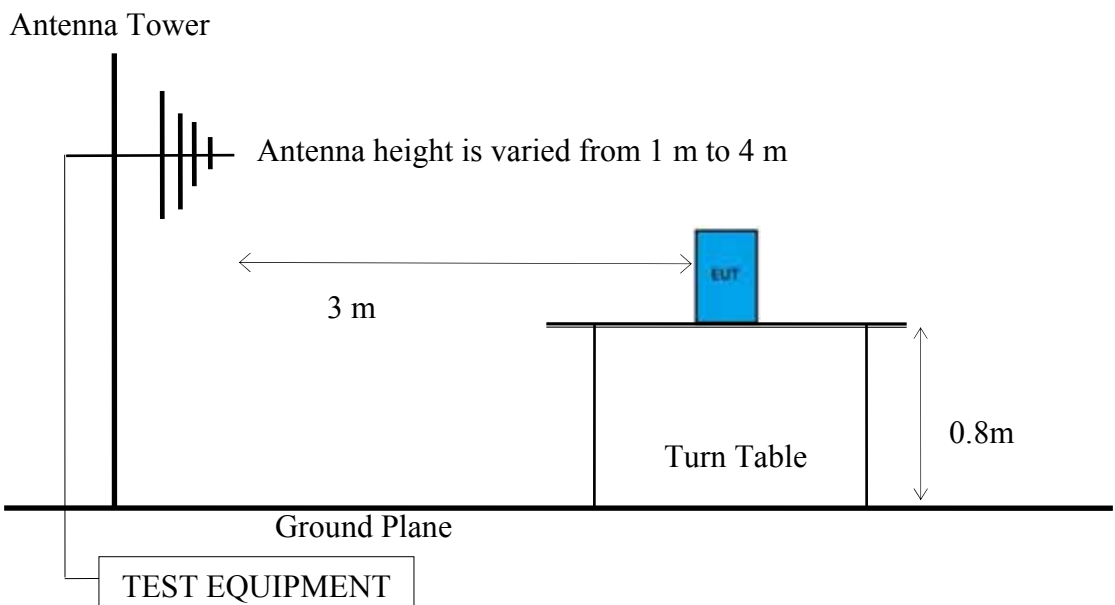
6.1.1. Block Diagram of EUT

Indicated as section 3.8

6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30MHz-1000MHz



6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6 must also comply with the radiated emission limits specified as below.

| Frequency (MHz) | Distance (m) | Limits | |
|-----------------|--------------|---|-----------|
| | | dB μ V/m | μ V/m |
| 0.009 - 0.490 | 300 | 67.6 | 2400/kHz |
| 0.490 - 1.705 | 30 | 87.6 | 24000/kHz |
| 1.705 - 30 | 30 | 29.5 | 30 |
| 30 - 88 | 3 | 40.0 | 100 |
| 88- 216 | 3 | 43.5 | 150 |
| 216- 960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |
| Above 1000 | 3 | 74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average) | |

Remark : (1) dB μ V/m = 20 log (μ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (10kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 1000MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 regulation.

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW \geq 3 x RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

6.4. Measurement Limit Formula

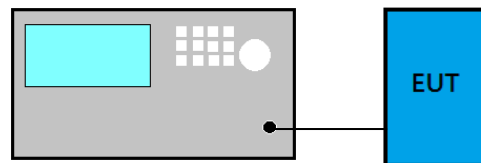
| Frequency (MHz) | Formula |
|---------------------------|---|
| 0.009 - 0.490MHz | 3 Limit (dB μ V/m) = 20log(2400/F ^{Note}) + 40log(300m/3m) |
| 0.490 - 1.705MHz | 3 Limit (dB μ V/m) = 20log(24000/F ^{Note}) + 40log(300m/3m) |
| 1.750- 30MHz | 3 Limit (dB μ V/m) = 20log(30) + 40log(300m/3m) |
| Note: F is test frequency | |

6.5. Test Results

Please refer to Appendix A.

7. 20dB/99dB BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The 20dB bandwidth shall be specified in operating frequency band.

7.3. Test Procedure

Following measurement procedure:

- (1) Set RBW close to 1% of OBW.
- (2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

7.4. Test Results

Please refer to Appendix A

8. DEVIATION TO TEST SPECIFICATIONS

【NONE】



*Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan*

*Tel: +886 2 26099301
Fax: +886 2 26099303*

APPDNDIX A

TEST DATA AND PLOTS

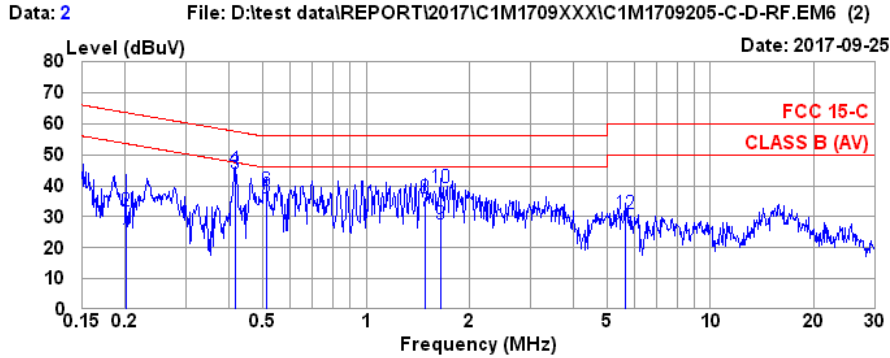
(Model: WCPTI-S)

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A.1 CONDUCTED EMISSION

| | | | |
|--------------|--------------------------------|------------|---------|
| Test Date | 2017/09/25 | Temp./Hum. | 26 /49% |
| Test Voltage | DC 19V (Via Personal Computer) | | |

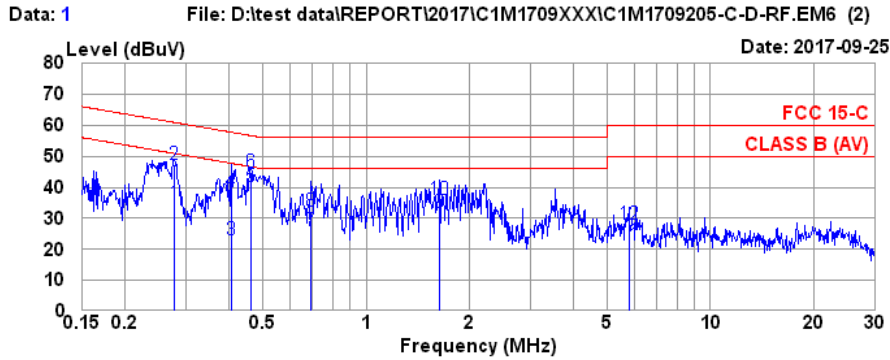


Site no. : No.7 Shielded Room Data no. : 2
 Condition : ESH2-Z5 366(ADAPTER) Phase : NEUTRAL
 Limit : FCC 15-C
 Env. / Ins. : 26°C / 49% ESCI(1276) Engineer : Nick Du
 EUT : WCPTI-S
 Power Rating : DC 19V(via PC)
 Test Mode : Operaing

| | Freq. (MHz) | AMN Factor (dB) | Cable Loss (dB) | Pulse Att. (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1 | 0.201 | 0.17 | 0.04 | 9.86 | 12.63 | 22.70 | 53.58 | 30.88 | Average |
| 2 | 0.201 | 0.17 | 0.04 | 9.86 | 21.81 | 31.88 | 63.58 | 31.70 | QP |
| 3 | 0.417 | 0.19 | 0.04 | 9.86 | 33.81 | 43.90 | 47.51 | 3.61 | Average |
| 4 | 0.417 | 0.19 | 0.04 | 9.86 | 35.28 | 45.37 | 57.51 | 12.14 | QP |
| 5 | 0.513 | 0.20 | 0.04 | 9.86 | 26.02 | 36.12 | 46.00 | 9.88 | Average |
| 6 | 0.513 | 0.20 | 0.04 | 9.86 | 28.40 | 38.50 | 56.00 | 17.50 | QP |
| 7 | 1.480 | 0.24 | 0.07 | 9.86 | 21.53 | 31.70 | 46.00 | 14.30 | Average |
| 8 | 1.480 | 0.24 | 0.07 | 9.86 | 25.90 | 36.07 | 56.00 | 19.93 | QP |
| 9 | 1.645 | 0.24 | 0.09 | 9.86 | 17.63 | 27.82 | 46.00 | 18.18 | Average |
| 10 | 1.645 | 0.24 | 0.09 | 9.86 | 29.34 | 39.53 | 56.00 | 16.47 | QP |
| 11 | 5.653 | 0.40 | 0.18 | 9.87 | 13.72 | 24.17 | 50.00 | 25.83 | Average |
| 12 | 5.653 | 0.40 | 0.18 | 9.87 | 20.49 | 30.94 | 60.00 | 29.06 | QP |

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

| | | | |
|--------------|--------------------------------|------------|---------|
| Test Date | 2017/09/25 | Temp./Hum. | 26 /49% |
| Test Voltage | DC 19V (Via Personal Computer) | | |



Site no. : No.7 Shielded Room Data no. : 1
 Condition : ESH2-Z5 366(ADAPTER) Phase : LINE
 Limit : FCC 15-C
 Env. / Ins. : 26*C / 49% ESCI(1276) Engineer : Nick Du
 EUT : WCPTI-S
 Power Rating : DC 19V (via PC)
 Test Mode : Operaing

| | Freq. (MHz) | AMN Factor (dB) | Cable Loss (dB) | Pulse Att. (dB) | Reading (dBμV) | Emission Level (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|----|-------------|-----------------|-----------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.277 | 0.17 | 0.04 | 9.86 | 24.61 | 34.68 | 50.90 | 16.22 | Average |
| 2 | 0.277 | 0.17 | 0.04 | 9.86 | 37.27 | 47.34 | 60.90 | 13.56 | QP |
| 3 | 0.406 | 0.18 | 0.04 | 9.86 | 12.87 | 22.95 | 47.73 | 24.78 | Average |
| 4 | 0.406 | 0.18 | 0.04 | 9.86 | 28.59 | 38.67 | 57.73 | 19.06 | QP |
| 5 | 0.464 | 0.18 | 0.04 | 9.86 | 30.10 | 40.18 | 46.63 | 6.45 | Average |
| 6 | 0.464 | 0.18 | 0.04 | 9.86 | 34.75 | 44.83 | 56.63 | 11.80 | QP |
| 7 | 0.690 | 0.20 | 0.05 | 9.86 | 15.93 | 26.04 | 46.00 | 19.96 | Average |
| 8 | 0.690 | 0.20 | 0.05 | 9.86 | 22.32 | 32.43 | 56.00 | 23.57 | QP |
| 9 | 1.628 | 0.24 | 0.08 | 9.86 | 21.85 | 32.03 | 46.00 | 13.97 | Average |
| 10 | 1.628 | 0.24 | 0.08 | 9.86 | 25.79 | 35.97 | 56.00 | 20.03 | QP |
| 11 | 5.805 | 0.43 | 0.18 | 9.87 | 11.04 | 21.52 | 50.00 | 28.48 | Average |
| 12 | 5.805 | 0.43 | 0.18 | 9.87 | 17.61 | 28.09 | 60.00 | 31.91 | QP |

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

A.2 RADIATED SPURIOUS EMISSION

| | | | |
|----------------|--------------------------------|------------|---------|
| Test Date | 2017/09/25 | Temp./Hum. | 23 /53% |
| Test Voltage | DC 19V (Via Personal Computer) | | |
| Test Frequency | TX 127kHz | | |

A.2.1. Frequency 9kHz~30MHz

Antenna at 0 Degree

| Test Frequency (MHz) | Test Result (dB μ V/m at 3m) | Limits (dB μ V/m at 3m) | Margin (dB) | Detector |
|-------------------------|-------------------------------------|--------------------------------|----------------|----------|
| 0.127 | 67.8 | 125.528 | 57.728 | Peak |
| 0.127 | 67.0 | 105.528 | 38.528 | Average |
| 0.381 | 47.8 | 115.986 | 68.186 | Peak |
| 0.381 | 46.6 | 95.986 | 49.386 | Average |
| 0.635 | 37.8 | 71.549 | 33.749 | QP |
| 0.889 | 33.3 | 68.626 | 35.326 | QP |
| 1.143 | 31.2 | 66.443 | 35.243 | QP |

Antenna at 90 Degree

| Test Frequency (MHz) | Test Result (dB μ V/m at 3m) | Limits (dB μ V/m at 3m) | Margin (dB) | Detector |
|-------------------------|-------------------------------------|--------------------------------|----------------|----------|
| 0.127 | 64.0 | 125.528 | 61.528 | Peak |
| 0.127 | 63.2 | 105.528 | 42.328 | Average |
| 0.381 | 47.1 | 115.986 | 68.886 | Peak |
| 0.381 | 43.6 | 95.986 | 52.386 | Average |
| 0.635 | 40.3 | 71.549 | 31.249 | QP |
| 0.889 | 37.5 | 68.626 | 31.126 | QP |
| 1.143 | 47.2 | 66.443 | 19.243 | QP |

Note: 1. All emissions are lower than the ambient level cannot be measured.

2. The Peak value has been compliance with Q.P. limit, thus measurement with Q.P. is not needed.

A.2.2. Frequency 30MHz ~ 1000MHz

Antenna at Horizontal Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dB μ V) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|----------------------------|-------------------------------|-----------------------|-------------|----------|
| 337.49 | 20.53 | 4.81 | 13.00 | 38.34 | 46.00 | 7.66 | Peak |
| 398.60 | 22.04 | 5.54 | 13.29 | 40.87 | 46.00 | 5.13 | Peak |
| 455.83 | 22.70 | 6.07 | 15.13 | 43.90 | 46.00 | 2.10 | Peak |
| 787.57 | 25.80 | 7.55 | 10.45 | 43.80 | 46.00 | 2.20 | Peak |
| 893.30 | 26.76 | 8.14 | 7.62 | 42.52 | 46.00 | 3.48 | Peak |
| 941.80 | 27.25 | 8.46 | 7.40 | 43.11 | 46.00 | 2.89 | Peak |

Antenna at Vertical Polarization

| Emission Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Meter Reading (dB μ V) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector |
|--------------------------|-----------------------|-----------------|----------------------------|-------------------------------|-----------------------|-------------|----------|
| 129.91 | 18.30 | 2.62 | 13.60 | 34.52 | 43.50 | 8.98 | Peak |
| 399.57 | 22.04 | 5.54 | 10.61 | 38.19 | 46.00 | 7.81 | Peak |
| 455.83 | 22.70 | 6.07 | 9.07 | 37.84 | 46.00 | 8.16 | Peak |
| 507.24 | 23.26 | 6.45 | 6.89 | 36.60 | 46.00 | 9.40 | Peak |
| 647.89 | 24.75 | 6.91 | 4.28 | 35.94 | 46.00 | 10.06 | Peak |
| 905.91 | 26.88 | 8.21 | 5.00 | 40.09 | 46.00 | 5.91 | Peak |

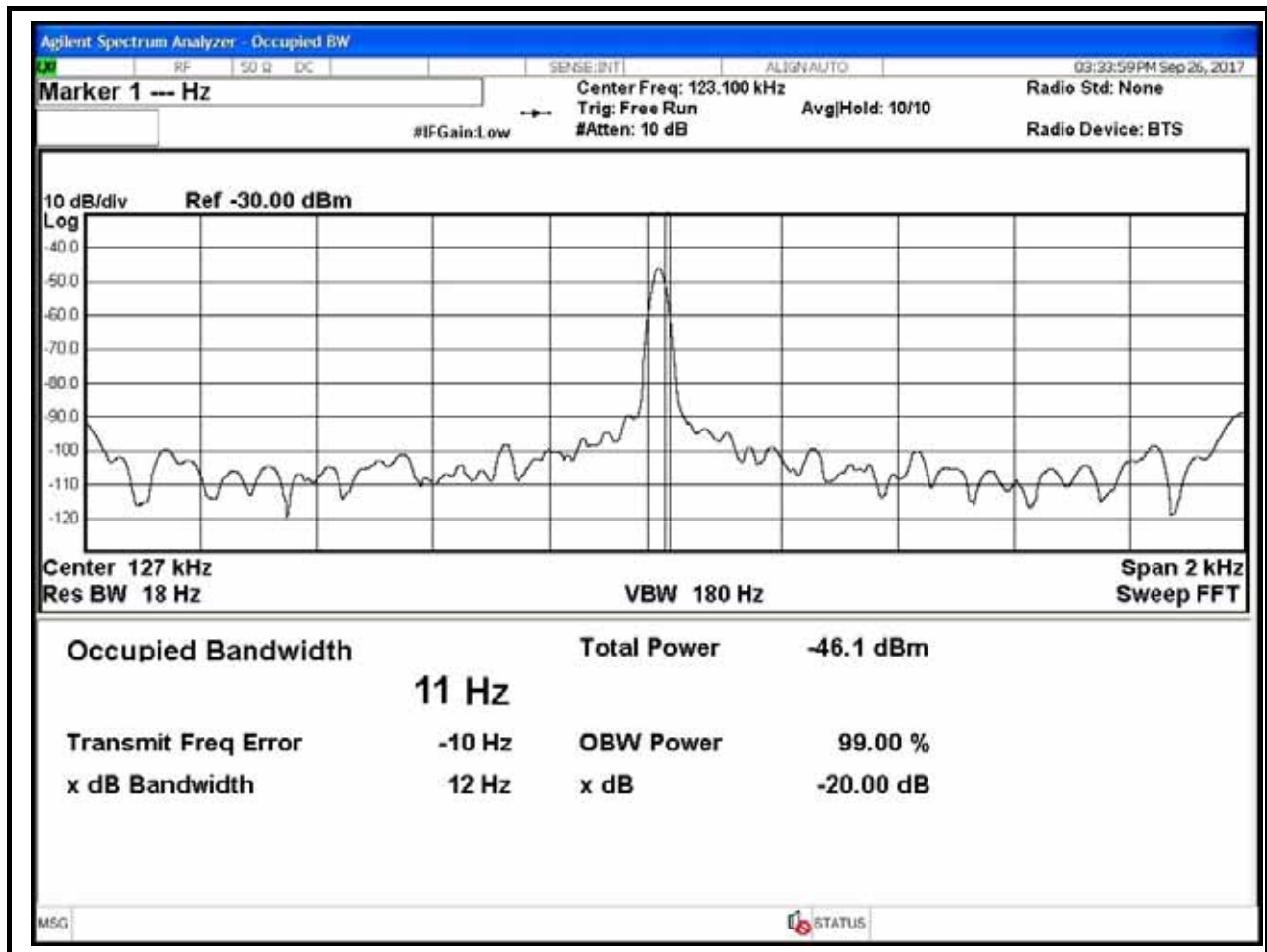
A.3 20dB/99dB BANDWIDTH

| | | | |
|------------|------------|--------------|--------------------------------|
| Test Date | 2017/09/26 | Temp./Hum. | 25 /50% |
| Cable Loss | N/A | Test Voltage | DC 19V (Via Personal Computer) |

A.4.1.1 20dB/99dB Bandwidth Result

| Centre Frequency (kHz) | 20 dB Bandwidth (Hz) | 99 dB Bandwidth (Hz) |
|------------------------|----------------------|----------------------|
| 127 | 12 | 11 |

A.4.1.2 Measurement Plots





Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

APPENDIX B

Tel: +886 2 26099301
Fax: +886 2 26099303

APPDNDIX B

TEST PHOTOGRAPHS

(Model: WCPTI-S)