

ACCRET

Report No.: SZEM190301170702

Page: 1 of 30

TEST REPORT

Application No.: SZEM1903011707CR **Applicant:** Qbic Technology Co., Ltd

Address of Applicant: 26F.-12, No.99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22175,

Taiwan

Manufacturer: Qbic Technology Co., Ltd

Address of Manufacturer: 26F.-12, No.99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22175,

Taiwan

Factory: TPV Electronics(Fujian)Co., Ltd.

Address of Factory: Rongqiao Economic and Technological Development Zone, Fuqing City,

Fujian Province, P.R. China

Equipment Under Test (EUT):

EUT Name: Panel PC
Model No.: TD-1050 PRO

Trade mark: Qbic

FCC ID: 2AF82-TD1050HPRO

Standard(s): 47 CFR Part 15, Subpart C 15.225

Date of Receipt: 2019-03-14

Date of Test: 2019-03-19 to 2019-05-16

Date of Issue: 2019-05-27

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| | Revision Record | | | | | | |
|---------|--------------------------------------|------------|--|----------|--|--|--|
| Version | Version Chapter Date Modifier Remark | | | | | | |
| 01 | | 2019-05-27 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|---------------------------|---|
| | Landew | |
| | Leo Lai /Project Engineer | - |
| | EvicFu | |
| | Eric Fu /Reviewer | - |



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Test Summary

| Radio Spectrum Technical Requirement | | | | | | |
|--------------------------------------|-------------------------------------|--------|-------------------------------------|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.225 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass | | |

| Radio Spectrum Matter Part | | | | | | |
|---|-------------------------------------|---------------------------------------|---|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass | | |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.215 | Pass | | |
| Emission Mask | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.4 | 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C) | Pass | | |
| Frequency tolerance | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.8 | 47 CFR Part 15, Subpart C 15.225(e) | Pass | | |
| Radiated Emissions(9kHz- 30MHz) | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.4&6.5 | 47 CFR Part 15, Subpart C 15.225(d) & 15.209 | Pass | | |
| Radiated Emissions(30MHz- 1GHz) | 47 CFR Part 15, Subpart C 15.225 | ANSI C63.10 (2013) Section 6.4&6.5 | 47 CFR Part 15, Subpart C 15.225(d) & 15.209 | Pass | | |



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General Information

Details of E.U.T.

| Power supply: | DC 12V from AC/DC adapter |
|----------------------|-------------------------------------|
| | Model1: ADS-25D-12 |
| | Input: 100-240V~50/60Hz |
| | Output: DC 12V, 1.5A |
| | Model2: KSAB0241200150D5 |
| | Input: 100-240V~50/60Hz |
| | Output: DC 12V, 1.5A |
| Cable: | Undetachable DC output cable: 1.8m |
| | Model2 adapter with a ferrite core. |
| Operation Frequency: | 13.56MHz |
| Modulation Type: | ASK |
| Antenna Type: | Loop Antenna |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|---------------------------|
| 1 | Radio Frequency | ± 7.25 x 10 ⁻⁸ |
| 2 | Duty cycle | ± 0.37% |
| 3 | Occupied Bandwidth | ± 3% |
| 4 | RF conducted power | ± 0.75dB |
| 5 | RF power density | ± 2.84dB |
| 6 | Conducted Spurious emissions | ± 0.75dB |
| 7 | DE Dodieted newer | ± 4.5dB (below 1GHz) |
| / | RF Radiated power | ± 4.8dB (above 1GHz) |
| 8 | Dadiated Courieus emission tost | ± 4.5dB (Below 1GHz) |
| 0 | Radiated Spurious emission test | ± 4.8dB (Above 1GHz) |
| 9 | Temperature test | ± 1 ℃ |
| 10 | Humidity test | ± 3% |
| 11 | Supply voltages | ± 1.5% |
| 12 | Time | ± 3% |



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

· A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

Abnormalities from Standard Conditions

None



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Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | | | |
|---|------------------|---------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2017-05-10 | 2020-05-09 | | |
| Measurement Software | AUDIX | e3 V5.4.1221d | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2018-07-12 | 2019-07-11 | | |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2018-09-25 | 2019-09-24 | | |
| LISN | ETS-LINDGREN | 2016/2 | CEM007.00 | 2018-04-02 | 2019-04-01 | | |
| LISIN | E13-LINDGREN | 3816/2 | SEM007-02 | 2019-04-01 | 2020-03-31 | | |
| EMI Test Receiver | Dabda 9 Cabusara | ECC! | CEM004 00 | 2018-04-02 | 2019-04-01 | | |
| | Rohde & Schwarz | ESCI | SEM004-02 | 2019-04-01 | 2020-03-31 | | |

| Radiated Emissions (9kHz-30MHz) | | | | | | |
|---|-------------------|---------------------|--------------|---|---|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2018-07-12 | 2019-07-11 | |
| EMI Test Receiver | Rohde & Schwarz | ESR | CEM004 02 | 2018-04-02 | 2019-04-01 | |
| (9kHz-7GHz) | Honde & Schwarz | ESK | SEM004-03 | 2018-03-31 2021-03-30 N/A N/A 2018-07-12 2019-07-11 | | |
| Trilog-Broadband Antenna (30MHz-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2019-06-28 | |
| Dro amplifier | Sonoma Instrument | 310N | SEMONE 04 | 2018-04-13 | 2019-04-12 | |
| Pre-amplifier | Со | 31010 | SEM005-04 | 2019-04-12 | 2021-03-30 N/A 2019-07-11 2019-04-01 2020-03-31 2019-06-28 2019-04-12 2020-04-11 | |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 | |

| Radiated Emissions(30MHz-1GHz) | | | | | | | |
|---|-------------------------|---------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2018-07-12 | 2019-07-11 | | |
| EMI Test Receiver (9kHz-7GHz) | Rohde & Schwarz | ESR | SEM004-03 | 2019-04-01 | 2020-03-31 | | |
| Trilog-Broadband Antenna(30MHz-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2019-06-28 | | |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2018-04-13 | 2019-04-12 | | |



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| | | | | 2019-04-12 | 2020-04-11 |
|---------------------|--------------|------|-----------|------------|------------|
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |

| General used equipment | | | | | | | | |
|------------------------------------|--|----------|--------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2018-09-27 | 2019-09-26 | | | |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2018-09-27 | 2019-09-26 | | | |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2018-09-27 | 2019-09-26 | | | |
| | Changchun | | | 2018-04-05 | 2019-04-04 | | | |
| Barometer | Meteorological Industry Factory | DYM3 | SEM002-01 | 2019-04-04 | 2020-04-03 | | | |



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Radio Spectrum Technical Requirement 6

Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to Internal photos.



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7 **Radio Spectrum Matter Test Results**

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency range (MHz) | Limit (dBuV) | | | | |
|-----------------------|--------------|-----------|--|--|--|
| Frequency range (MHz) | Quasi-peak | Average | | | |
| 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.



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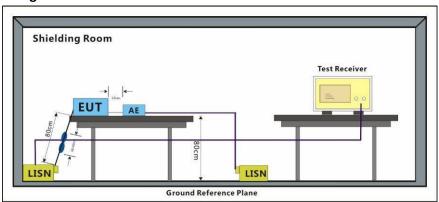
7.1.1 E.U.T. Operation

Operating Environment:

°C Temperature: 19 Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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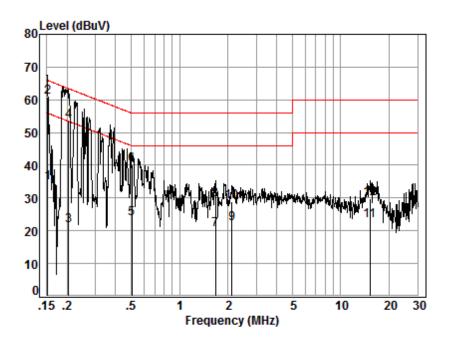
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Mode:a; Line:Live Line



: Shielding Room

Condition: Line Job No. : 11707CR

Test mode: a

| | | Cable | LISN | Read | | Limit | 0ver | |
|----|-------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.15 | 0.01 | 9.66 | 25.09 | 34.76 | 55.91 | -21.15 | Average |
| 2 | 0.15 | 0.01 | 9.66 | 51.15 | 60.82 | 65.91 | -5.09 | QP |
| 3 | 0.20 | 0.02 | 9.66 | 11.91 | 21.59 | 53.45 | -31.86 | Average |
| 4 | 0.20 | 0.02 | 9.66 | 43.77 | 53.45 | 63.45 | -10.00 | QP |
| 5 | 0.50 | 0.06 | 9.67 | 14.12 | 23.85 | 46.00 | -22.15 | Average |
| 6 | 0.50 | 0.06 | 9.67 | 30.28 | 40.01 | 56.00 | -15.99 | QP |
| 7 | 1.67 | 0.14 | 9.73 | 10.61 | 20.48 | 46.00 | -25.52 | Average |
| 8 | 1.67 | 0.14 | 9.73 | 19.64 | 29.51 | 56.00 | -26.49 | QP |
| 9 | 2.11 | 0.16 | 9.72 | 12.24 | 22.12 | 46.00 | -23.88 | Average |
| 10 | 2.11 | 0.16 | 9.72 | 19.16 | 29.04 | 56.00 | -26.96 | QP |
| 11 | 15.23 | 0.21 | 10.33 | 12.54 | 23.08 | 50.00 | -26.92 | Average |
| 12 | 15.23 | 0.21 | 10.33 | 19.35 | 29.89 | 60.00 | -30.11 | QP |



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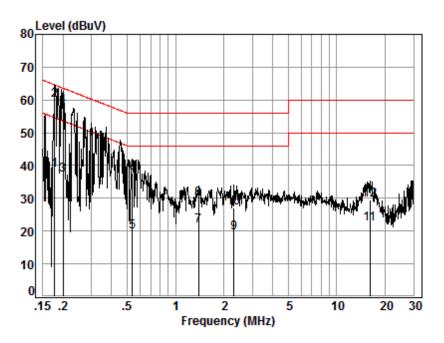
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Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral : 11707CR Job No.

Test mode: a

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|-------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.18 | 0.02 | 9.64 | 28.98 | 38.64 | 54.59 | -15.95 | Average |
| 2 | 0.18 | 0.02 | 9.64 | 50.31 | 59.97 | 64.59 | -4.62 | QP |
| 3 | 0.20 | 0.02 | 9.64 | 27.32 | 36.98 | 53.58 | -16.60 | Average |
| 4 | 0.20 | 0.02 | 9.64 | 48.50 | 58.16 | 63.58 | -5.42 | QP |
| 5 | 0.54 | 0.06 | 9.64 | 10.18 | 19.88 | 46.00 | -26.12 | Average |
| 6 | 0.54 | 0.06 | 9.64 | 27.90 | 37.60 | 56.00 | -18.40 | QP |
| 7 | 1.39 | 0.12 | 9.70 | 11.70 | 21.52 | 46.00 | -24.48 | Average |
| 8 | 1.39 | 0.12 | 9.70 | 20.12 | 29.94 | 56.00 | -26.06 | QP |
| 9 | 2.30 | 0.16 | 9.68 | 9.65 | 19.49 | 46.00 | -26.51 | Average |
| 10 | 2.30 | 0.16 | 9.68 | 17.16 | 27.00 | 56.00 | -29.00 | QP |
| 11 | 16.05 | 0.22 | 10.31 | 11.59 | 22.12 | 50.00 | -27.88 | Average |
| 12 | 16.05 | 0.22 | 10.31 | 19.05 | 29.58 | 60.00 | -30.42 | QP |



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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

Measurement Distance: 10m Limit: N/A

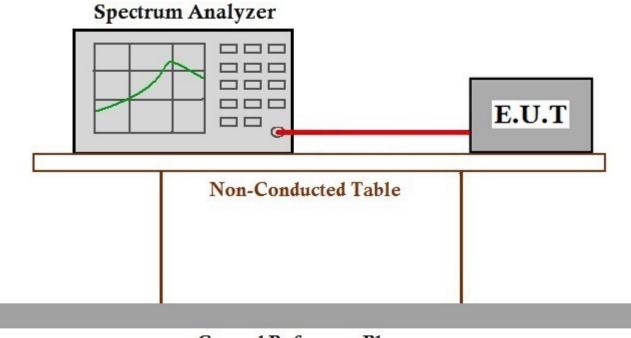
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data



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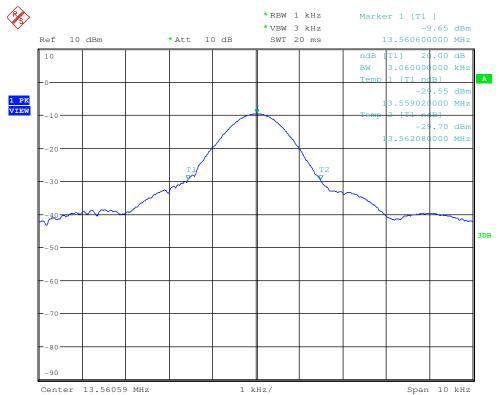
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Mode a:





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7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 10m

Limit:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

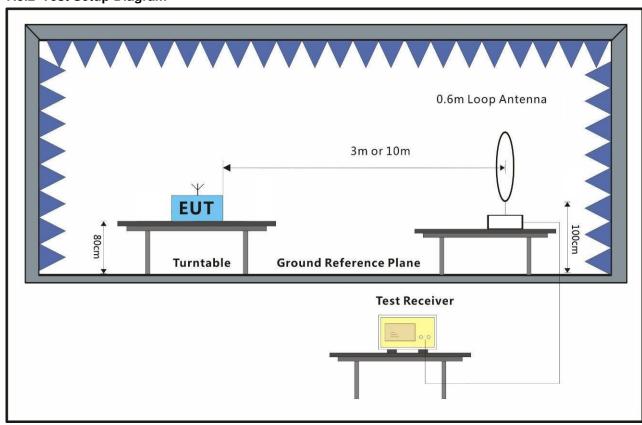
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





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7.3.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

| Frequenc y (MHz) | Cable loss (dB) | ANT Factor (dB) | Read Level @ 10m | Level @ 10m (dBuV/m) | Level @ 30m (dBuV/m) | Limit @ 30m (dBuV/m) | Margin (dB) |
|---------------------|-----------------|-----------------------|------------------------|-------------------------|----------------------------|--------------------------|----------------|
| 13.56 | 0.57 | 10.47 | 20.55 | 31.59 | 12.51 | 84.00 | -71.49 |

Below 30MHz

The test was performed at a 10m test site.

The level at 30m test distance is below:

The factor calculated by the following equation:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

 FS_{limit} is the calculation of field strength at the limit distance, expressed in dBµV/m

 FS_{max} is the measured field strength, expressed in dBµV/m d_{measure} is the distance of the measurement point from the EUT is the reference distance or the distance of the $\lambda/2\pi$ point d_{limit}



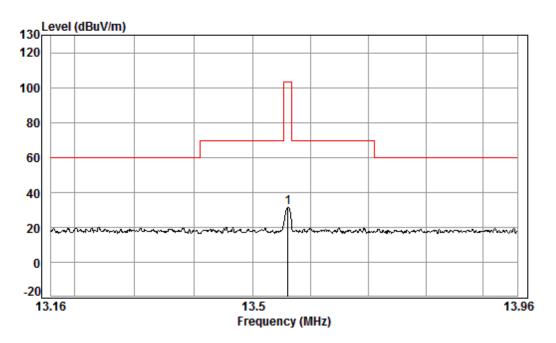
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Mode:a



Condition: 10m

Job No. : 11707CR

Test Mode: a

1

| | Limit Line | | | | | | Freq | |
|--------|---------------|--------|-------|-------|-------|------|-------|----|
| dB | dBuV/m | dBuV/m | dBuV | dB | dB/m | dB | MHz | - |
| -71.49 | 103.08 | 31.59 | 53.06 | 32.51 | 10.47 | 0.57 | 13.56 | рр |



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7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e) Test Method: ANSI C63.10 (2013) Section 6.8

Measurement Distance: 10m Limit: 1.356kHz

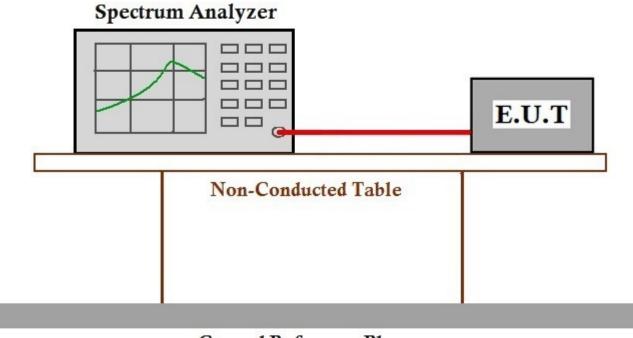
7.4.1 E.U.T. Operation

Operating Environment:

Humidity: 51 Temperature: 25 °C % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data



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| Declared Frequency (MHz) | 13.56MHz | |
|--------------------------|----------|--|
|--------------------------|----------|--|

| Temperature (℃) | Voltage(VDC) | Measurement Frequency Frequency(MHz) Tolerance (%) | | Limit (%) | Result |
|-----------------|--------------|--|---------|-----------|--------|
| 50 | | 13.560804 | 0.00593 | | Pass |
| 40 | | 13.560421 | 0.00310 | | Pass |
| 30 | | 13.560512 | 0.00378 | | Pass |
| 20 | 12 | 13.560533 | 0.00393 | | Pass |
| 10 | 12 | 13.560445 | 0.00328 | ±0.01 | Pass |
| 0 | | 13.560111 | 0.00082 | ±0.01 | Pass |
| -10 | | 13.560551 | 0.00406 | | Pass |
| -20 | | 13.560670 | 0.00494 | | Pass |
| 20 | 13.80 | 13.560137 | 0.00101 | | Pass |
| 20 | 10.20 | 13.560045 | 0.00033 | | Pass |



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7.5 Radiated Emissions(9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 10m

Limit:

| Frequency(MHz) | Field strength (microvolts/meter) | Limit (dBuV/m) | Detector | Measurement Distance (meters) |
|----------------|-----------------------------------|-------------------|----------|-------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | - | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | - | 30 |
| 1.705-30 | 30 | - | - | 30 |
| 30-88 | 100 | 40.0 | QP | 3 |
| 88-216 | 150 | 43.5 | QP | 3 |
| 216-960 | 200 | 46.0 | QP | 3 |
| 960-1000 | 500 | 54.0 | QP | 3 |
| Above 1000 | 500 | 54.0 | AV | 3 |



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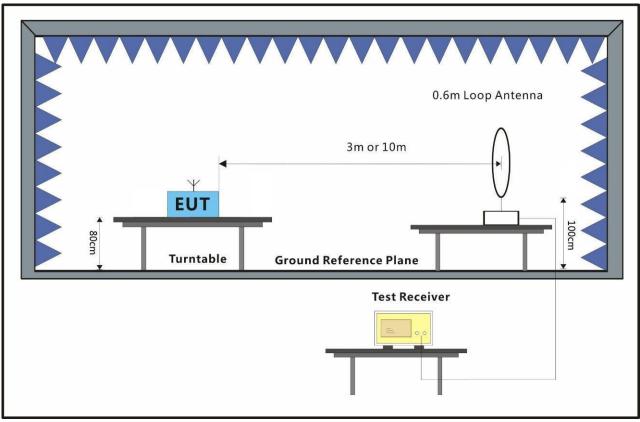
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 % RH Atmospheric Pressure: 1020 mbar °C Humidity: 51

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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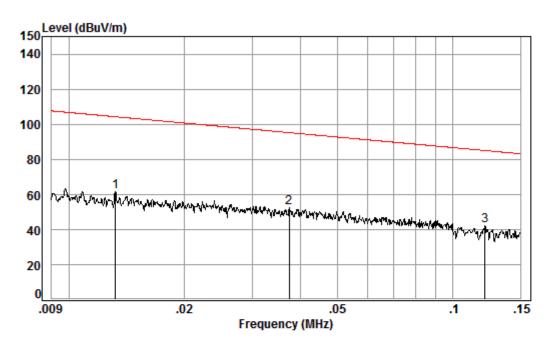
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0.009-0.15MHz



Condition: 10m Job No. : 11707CR

Test Mode: a

| | Freq | | | Preamp Factor | | | | |
|------|------|------|-------|------------------|-------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0.01 | 0.26 | 17.58 | 32.55 | 76.15 | 61.44 | 104.28 | -42.84 |
| 2 pp | 0.04 | 0.15 | 13.22 | 32.56 | 71.72 | 52.53 | 95.21 | -42.68 |
| 3 | 0.12 | 0.06 | 11.86 | 32.56 | 62.57 | 41.93 | 85.03 | -43.10 |



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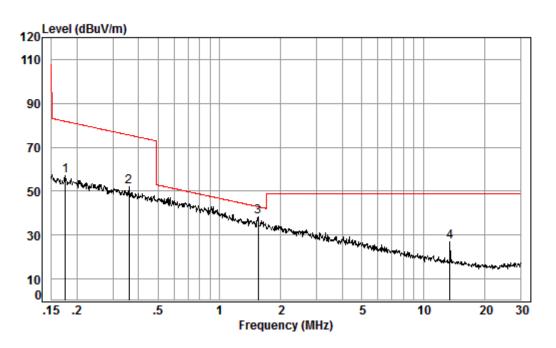


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0.15-30MHz



Condition: 10m Job No. : 11707CR

Test Mode: a

| | Freq | | | Preamp Factor | | | | |
|------|-------|------|-------|------------------|-------|--------|--------|--------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | ——dB |
| 1 | 0.18 | 0.08 | 11.79 | 32.56 | 77.64 | 56.95 | 81.79 | -24.84 |
| 2 | 0.36 | 0.11 | 11.84 | 32.56 | 72.41 | 51.80 | 75.58 | -23.78 |
| 3 рр | 1.55 | 0.30 | 12.06 | 32.55 | 58.46 | 38.27 | 42.88 | -4.61 |
| 4 | 13.55 | 0.57 | 10.48 | 32.51 | 48.46 | 27.00 | 48.63 | -21.63 |



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7.6 Radiated Emissions(30MHz-1GHz)

47 CFR Part 15, Subpart C 15.225(d) & 15.209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

| Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
|---------------|----------------------------------|-------------------|------------|--------------------------|
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |

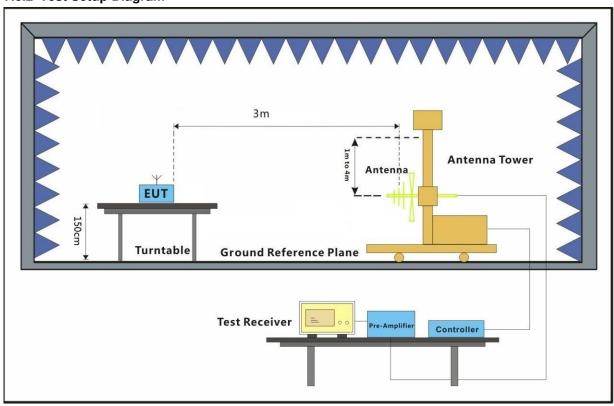
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25 Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.6.2 Test Setup Diagram





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7.6.3 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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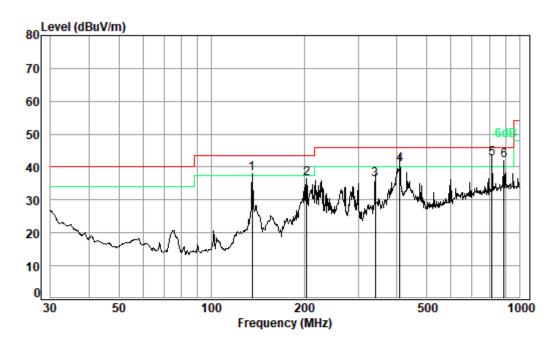
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Mode:a; Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 11707CR Test Mode: a(NFC)

| | Freq | | | Preamp Factor | | | Limit Line | Over Limit |
|------|--------|------|-------|------------------|-------|--------|---------------|---------------|
| _ | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 135.51 | 1.29 | 13.57 | 27.52 | 50.80 | 38.14 | 43.50 | -5.36 |
| 2 | 203.52 | 1.42 | 16.63 | 27.53 | 46.03 | 36.55 | 43.50 | -6.95 |
| 3 | 340.78 | 2.03 | 20.84 | 27.62 | 40.80 | 36.05 | 46.00 | -9.95 |
| 4 | 408.95 | 2.24 | 22.62 | 27.75 | 43.69 | 40.80 | 46.00 | -5.20 |
| 5 pp | 815.97 | 3.27 | 28.72 | 27.36 | 38.03 | 42.66 | 46.00 | -3.34 |
| 6 | 890.73 | 3.56 | 29.69 | 27.11 | 35.89 | 42.03 | 46.00 | -3.97 |



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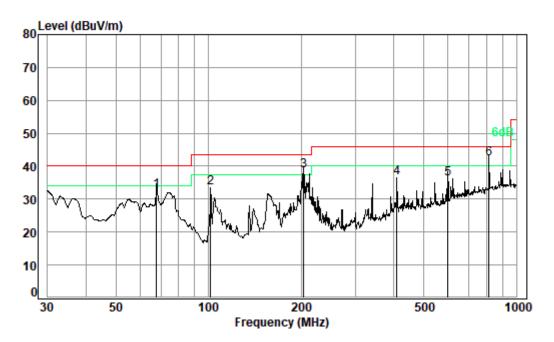
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Mode:a; Polarization:Vertical;



Condition: 3m VERTICAL

Job No. : 11707CR Test Mode: a(NFC)

| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 67.91 | 0.80 | 12.88 | 27.53 | 46.42 | 32.57 | 40.00 | -7.43 |
| 2 | 101.64 | 1.21 | 13.92 | 27.51 | 45.81 | 33.43 | 43.50 | -10.07 |
| 3 | 203.52 | 1.42 | 16.63 | 27.53 | 48.12 | 38.64 | 43.50 | -4.86 |
| 4 | 408.95 | 2.24 | 22.62 | 27.75 | 39.39 | 36.50 | 46.00 | -9.50 |
| 5 | 599.32 | 2.70 | 26.59 | 27.70 | 34.61 | 36.20 | 46.00 | -9.80 |
| 6 pp | 815.97 | 3.27 | 28.72 | 27.36 | 37.56 | 42.19 | 46.00 | -3.81 |



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8 **Photographs**

8.1 Test Setup

Please Refer to Setup Photos for details.

8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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