FCC Test Report

APPLICANT : Lenovo(Shanghai) Electronics

Technology Co., Ltd.

EQUIPMENT: Portable Tablet Computer

BRAND NAME : Lenovo

MODEL NAME : Lenovo TB-7305F

FCC ID : 057TB7305F

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jun. 15, 2019 and testing was completed on Jul. 01, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: O57TB7305F Page Number : 1 of 22
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Report No.: FC961501

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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FC961501 | Rev. 01 | Initial issue of report | Aug. 01, 2019 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|-------------------|----------|--------------------------|-----------------|--------|-------------|
| | | | | | Under limit |
| 3.1 | 15.107 | AC Conducted Emission | < 15.107 limits | PASS | 10.03 dB at |
| | | | | | 0.481 MHz |
| | | | | | Under limit |
| 3.2 | 15.109 | 15.109 Radiated Emission | < 15.109 limits | PASS | 3.27 dB at |
| | | | | | 480.080 MHz |

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1. General Description

1.1. Applicant

Lenovo(Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Report No.: FC961501

1.2. Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong

1.3. Product Feature of Equipment Under Test

| | Product Feature |
|---------------------------------|---|
| Equipment | Portable Tablet Computer |
| Brand Name | Lenovo |
| Model Name | Lenovo TB-7305F |
| FCC ID | O57TB7305F |
| EUT supports Radios application | WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR / EDR / LE GNSS |
| HW Version | Lenovo Tablet TB-7305F |
| SW Version | TB-7305F_RF01_190604 |
| EUT Stage | Identical Prototype |

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- There are five types of EUT, the difference could be referred to the product equality declaration which is exhibit separately. According to the difference, we choose the sample 1 to full test and the sample 2 is verified the difference.

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1.4. Product Specification of Equipment Under Test

| Standards-related Product Specification | | | | | | |
|---|--|--|--|--|--|--|
| Tx Frequency | 802.11b/g/n: 2412 MHz ~ 2462 MHz | | | | | |
| | Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz | | | | | |
| Rx Frequency | Bluetooth: 2402 MHz ~ 2480 MHz | | | | | |
| , , | GNSS: 1559 MHz ~ 1610 MHz | | | | | |
| | WLAN: PIFA Antenna | | | | | |
| Antenna Type | Bluetooth : PIFA Antenna | | | | | |
| | GNSS: PIFA Antenna | | | | | |
| | 802.11b: DSSS (DBPSK / DQPSK / CCK) | | | | | |
| | 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) | | | | | |
| | Bluetooth LE : GFSK | | | | | |
| Type of Modulation | Bluetooth (1Mbps) : GFSK | | | | | |
| | Bluetooth (2Mbps) : π/4-DQPSK | | | | | |
| | Bluetooth (3Mbps) : 8-DPSK | | | | | |
| | GNSS: BPSK | | | | | |

Note: GNSS= GPS

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| Test Firm | Sporton International (Kunshan) Inc. | | | | | | |
|--------------------|--|---------------------|--------------------------------|--|--|--|--|
| | No. 1098, Pengxi North Road, Kunshan Economic Development Zone | | | | | | |
| Test Site Location | Jiangsu Province 215300 People's Republic of China | | | | | | |
| Test Site Location | TEL: +86-512-57900158 | | | | | | |
| | FAX: +86-512-57900958 | | | | | | |
| | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. | | | | |
| Test Site No. | CO01-KS | CN1257 | 314309 | | | | |
| | 03CH06-KS | CN1257 | 314309 | | | | |

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

| Test Items | Function Type |
|--------------|---|
| | Mode 1: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + Battery 1 + USB Cable 1(Charging from Adapter 1) for Sample 1 |
| | Mode 2: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 2(Charging from Adapter 2) for Sample 1 |
| | Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + Battery 1 + USB Cable 2(Charging from Adapter 2) for Sample 1 |
| AC Conducted | Mode 4: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) for Sample 1 |
| Emission | Mode 5: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USB Cable 2(Data Link with Notebook) for Sample 1 |
| | Mode 6: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + Battery 2 + USB Cable 2(Charging from Adapter 2) for Sample 2 |
| | Mode 7: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 2(Charging from Adapter 2) for Sample 2 |
| | Mode 8: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 2 + USB Cable 1(Data Link with Notebook) for Sample 2 |

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| | Mode 1: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + Battery 1 USB Cable 1(Charging from Adapter 1) for Sample 1 |
|-----------|---|
| | Mode 2: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 USB Cable 2(Charging from Adapter 2) for Sample 1 |
| | Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone Battery 1 + USB Cable 2(Charging from Adapter 2) for Sample 1 |
| Radiated | Mode 4: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USl Cable 1(Data Link with Notebook) for Sample 1 |
| Emissions | Mode 5: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USl Cable 2(Data Link with Notebook) for Sample 1 |
| | Mode 6: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 2 USB Cable 2(Charging from Adapter 2) for Sample 2 |
| | Mode 7: Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 2 USB Cable 2(Charging from Adapter 2) for Sample 2 |
| | Mode 8: Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 2 + USI Cable 1(Data Link with Notebook) for Sample 2 |

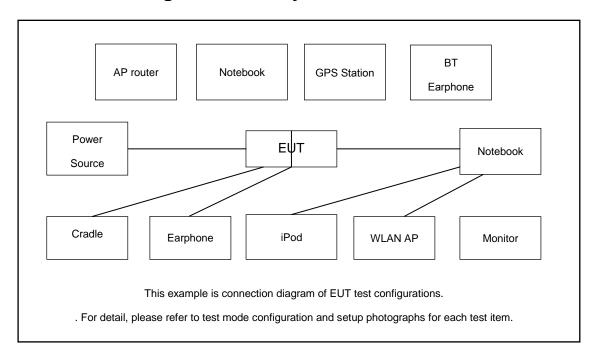
Remark:

- 1. The worst case of AC is mode 7; only the test data of this mode is reported.
- 2. The worst case of RE is mode 8; only the test data of this mode is reported.
- 3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord | |
|------|----------------------------|------------|------------|-------------|-----------------|--|--|
| 1. | Vector Signal Generator | R&S | SMBV100A | 258305 | N/A | Unshielded,1.8m | |
| 2. | WLAN AP | D-Link | DIR-855 | KA2DIR855A2 | N/A | Unshielded,1.8m | |
| 3. | WLAN AP | TP-LINK | TL-WDR5600 | N/A | N/A | Unshielded,1.8m | |
| 4. | WLAN AP | ASUS | AC66U | N/A | N/A | Unshielded,1.8m | |
| 5. | Bluetooth Earphone | Lenovo | LBH308 | N/A | N/A | N/A | |
| 6. | Bluetooth Earphone | Xiaomi | LYEJ02LM | N/A | N/A | N/A | |
| 7. | Earphone | Lenovo | P121 | N/A | Unshielded,1.2m | N/A | |
| 8. | Notebook | ook Lenovo | | N/A | N/A | shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m | |
| 9. | Notebook | Thimnkpad | PF034R7N | N/A | N/A | shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m | |
| 10. | SD Card | Kingston | 8GB | N/A | N/A | N/A | |
| 11. | SD Card | SanDisk | Uitra | N/A | N/A | N/A | |
| 12. | iPod | Apple | A1199 | Fcc DoC | Unshielded,1.0m | N/A | |

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2.4. EUT Operation Test Setup

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Turn on camera to capture images.
- 3. Turn on MPEG4 function.
- 4. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

| Frequency of emission | Conducted limit (dBuV) | | | | |
|-----------------------|------------------------|-----------|--|--|--|
| (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.

3.1.2 Measuring Instruments

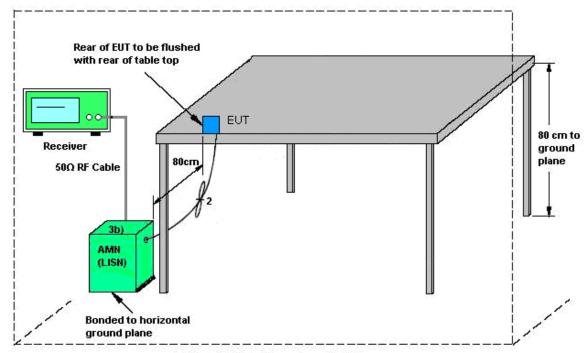
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.1.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

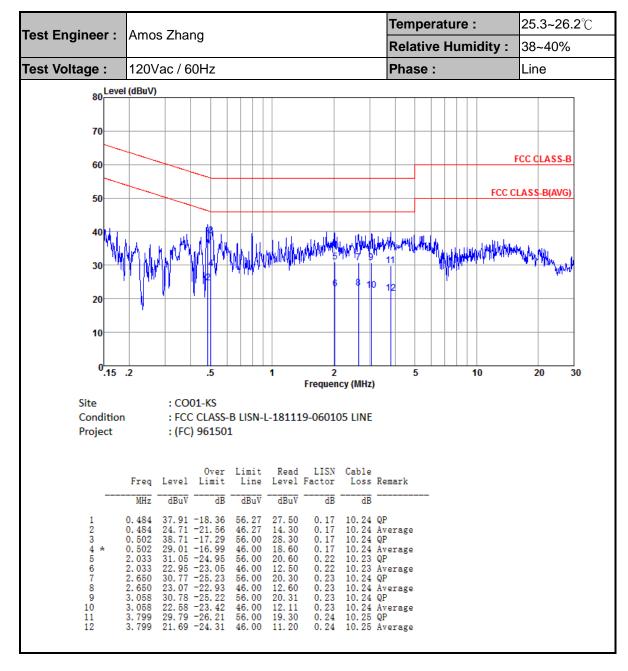
EUT = Equipment under test

ISN = Impedance stabilization network

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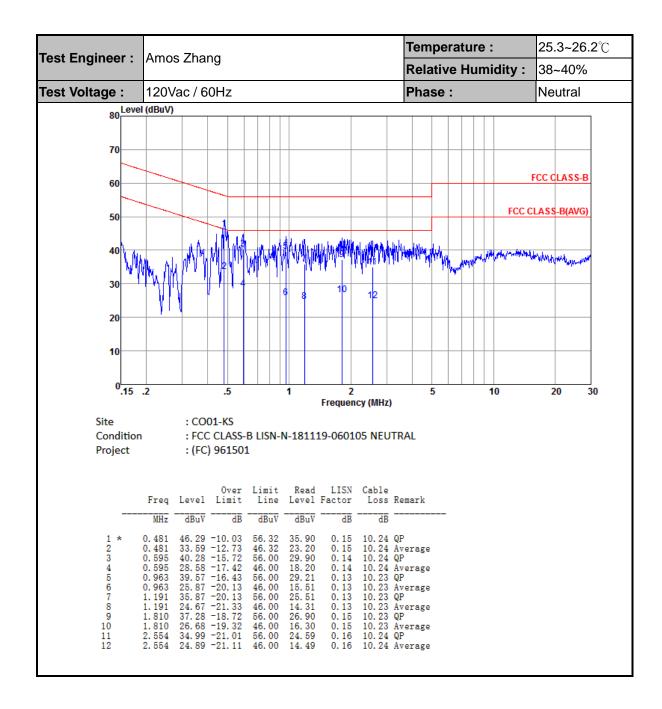
3.1.5 Test Result of AC Conducted Emission



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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

| Frequency | Field Strength | Measurement Distance |
|-----------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (meters) |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

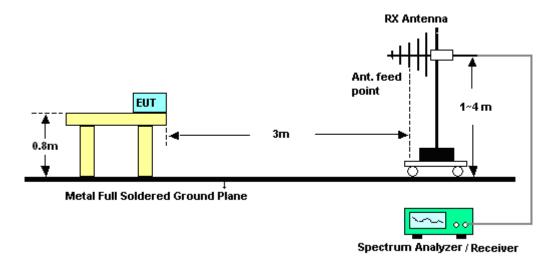
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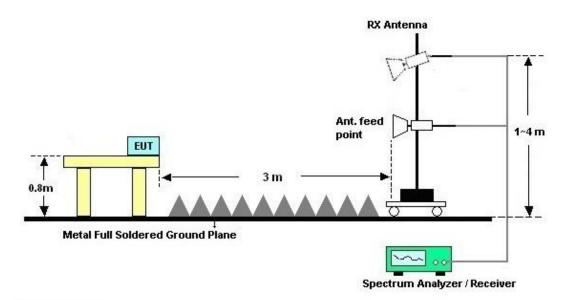
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

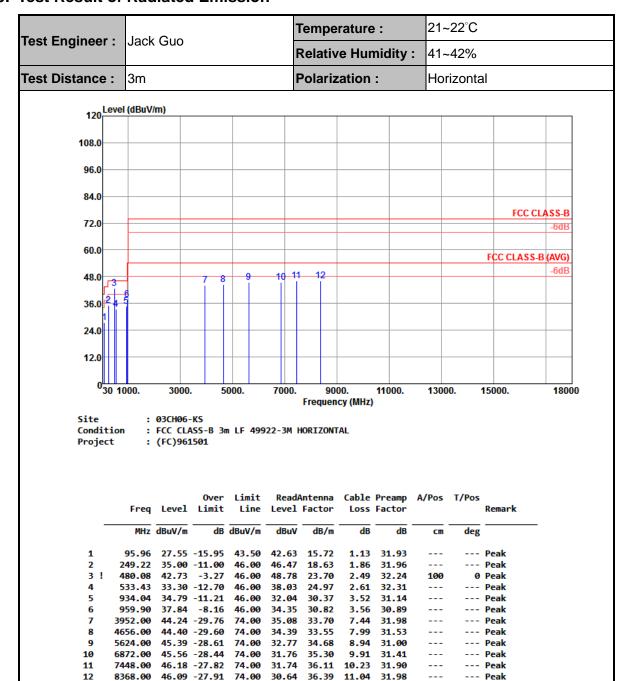


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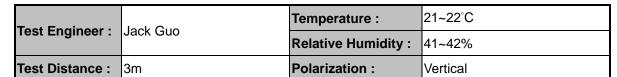
3.2.5. Test Result of Radiated Emission

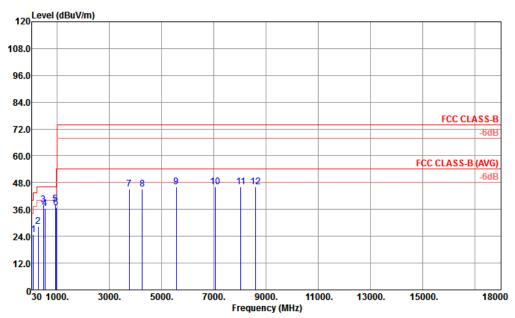


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: 03CH06-KS

Site Condition : FCC CLASS-B 3m LF 49922-3M VERTICAL : (FC)961501

Project

| | Frea | Level | | Limit Line | | Antenna Factor | | | | T/Pos | Remark |
|----|---------|--------|--------|---------------|-------|-------------------|-------|-------|-----|-------|--------|
| | | dBuV/m | | dBuV/m | dBuV | | dB | dB | | | |
| | MHZ | abuv/m | ав | abuv/m | abuv | ab/m | ав | ав | cm | deg | |
| 1 | 95.96 | 24.72 | -18.78 | 43.50 | 39.80 | 15.72 | 1.13 | 31.93 | | | Peak |
| 2 | 276.38 | 28.49 | -17.51 | 46.00 | 39.57 | 19.02 | 1.92 | 32.02 | | | Peak |
| 3 | 480.08 | 38.20 | -7.80 | 46.00 | 44.25 | 23.70 | 2.49 | 32.24 | | | Peak |
| 4 | 531.49 | 36.33 | -9.67 | 46.00 | 41.12 | 24.92 | 2.60 | 32.31 | | | Peak |
| 5 | 934.04 | 38.49 | -7.51 | 46.00 | 35.74 | 30.37 | 3.52 | 31.14 | 100 | 0 | Peak |
| 6 | 959.90 | 36.81 | -9.19 | 46.00 | 33.32 | 30.82 | 3.56 | 30.89 | | | Peak |
| 7 | 3760.00 | 45.06 | -28.94 | 74.00 | 36.30 | 33.60 | 7.18 | 32.02 | | | Peak |
| 8 | 4272.00 | 45.00 | -29.00 | 74.00 | 35.46 | 33.69 | 7.71 | 31.86 | | | Peak |
| 9 | 5568.00 | 46.00 | -28.00 | 74.00 | 33.51 | 34.61 | 8.90 | 31.02 | | | Peak |
| 10 | 7072.00 | 46.11 | -27.89 | 74.00 | 32.01 | 35.42 | 10.01 | 31.33 | | | Peak |
| 11 | 8032.00 | 46.12 | -27.88 | 74.00 | 31.03 | 36.13 | 11.00 | 32.04 | | | Peak |
| 12 | 8608.00 | 46.25 | -27.75 | 74.00 | 30.21 | 36.43 | 11.44 | 31.83 | | | Peak |

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4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|--------------|-------------------|------------------|----------------------------|---------------------|---------------|---------------|--------------------------|
| EMI Receiver | R&S | ESCI7 | 100768 | 9kHz~7GHz; | Apr. 16, 2019 | Jun. 29, 2019 | Apr. 15, 2020 | Conduction (CO01-KS) |
| AC LISN | MessTec | AN3016 | 060103 | 9kHz~30MHz | Oct. 12, 2018 | Jun. 29, 2019 | Oct. 11, 2019 | Conduction (CO01-KS) |
| AC LISN (for auxiliary equipment) | MessTec | AN3016 | 060105 | 9kHz~30MHz | Nov. 19, 2018 | Jun. 29, 2019 | Nov. 18, 2019 | Conduction (CO01-KS) |
| AC Power Source | Chroma | 61602 | ABP0000008 11 | AC 0V~300V, 45Hz~1000Hz | Oct. 12, 2018 | Jun. 29, 2019 | Oct. 11, 2019 | Conduction (CO01-KS) |
| EMI Test Receiver | Keysight | N9038A | MY56400023 | 3Hz~8.5GHz;M ax 30dBm | Oct. 12, 2018 | Jul. 01, 2019 | Oct. 11, 2019 | Radiation (03CH06-KS) |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55370528 | 10Hz-44GHz | Oct. 09, 2018 | Jul. 01, 2019 | Oct. 08, 2019 | Radiation (03CH06-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 44483 | 30MHz-1GHz | Dec. 28, 2018 | Jul. 01, 2019 | Dec. 27, 2019 | Radiation (03CH06-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 75957 | 1GHz~18GHz | Oct. 20, 2018 | Jul. 01, 2019 | Oct. 19, 2019 | Radiation (03CH06-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101070 | 18GHz~40GHz | Jan. 05, 2019 | Jul. 01, 2019 | Jan. 04, 2020 | Radiation (03CH06-KS) |
| Amplifier | MITEQ | TTA1840-35-H G | 2014749 | 18~40GHz | Jan. 14, 2019 | Jul. 01, 2019 | Jan. 13, 2020 | Radiation (03CH06-KS) |
| Amplifier | SONOMA | 310N | 187289 | 9KHz ~1GHZ | Aug. 06, 2018 | Jul. 01, 2019 | Aug. 05, 2019 | Radiation (03CH06-KS) |
| Amplifier | Keysight | 83017A | MY53270203 | 500MHz~26.5G Hz | Apr. 15, 2019 | Jul. 01, 2019 | Apr. 14, 2020 | Radiation (03CH06-KS) |
| AC Power Source | Chroma | 61601 | F104090004 | N/A | NCR | Jul. 01, 2019 | NCR | Radiation (03CH06-KS) |
| Turn Table | ChamPro | EM 1000-T | 060762-T | 0~360 degree | NCR | Jul. 01, 2019 | NCR | Radiation (03CH06-KS) |
| Antenna Mast | ChamPro | EM 1000-A | 060762-A | 1 m~4 m | NCR | Jul. 01, 2019 | NCR | Radiation (03CH06-KS) |

NCR: No Calibration Required

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

| Measuring Uncertainty for a Level of Confidence | 2.9 dB | |
|---|--------|--|
| of 95% (U = 2Uc(y)) | 2.9 UD | |

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| Measuring Uncertainty for a Level of Confidence | 5.0 dB |
|---|--------|
| of 95% (U = 2Uc(y)) | 5.0 dB |

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

| Measuring Uncertainty for a Level of Confidence | 5.0 dB |
|---|--------|
| of 95% (U = 2Uc(y)) | 5.0 dB |

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

| 5.0 dB |
|--------|
| |

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