

FCC Radio Test Report

FCC ID: 2AJN7-TP00160AL

| Report No. Equipment Model Name Brand Name Applicant Address Manufacturer Address | BTL-FCCP-4-2311T076 Notebook Computer TP00160A Lenovo LC Future Center 7F., No. 780, Beian Rd., Zhongshan Dist., Taipei City 104, Taiwan Lenovo PC HK Limited 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R. China | |
|--|--|--|
| Radio Function | LTE Band 14 | |
| FCC Rule Part(s) | FCC CFR Title 47, Part 90, Subpart R | |
| Date of Receipt Date of Test Issued Date | 2023/11/16 2023/11/28 ~ 2023/12/7 2024/3/27 | |

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by

Approved by

uang, Supervisor Jerry

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



CONTENTS

| 1 | SUMMA | RY OF TEST RESULTS | 5 |
|-------|---------|---|----|
| 1.1 | REFE | ERENCE TEST GUIDANCE | 6 |
| 1.2 | TEST | FACILITY | 6 |
| 1.3 | MEA | SUREMENT UNCERTAINTY | 6 |
| 1.4 | TEST | ENVIRONMENT CONDITIONS | 6 |
| 2 | GENER | AL INFORMATION | 7 |
| 2.1 | DES | CRIPTION OF EUT | 7 |
| 2.2 | TEST | MODES | 8 |
| 2.3 | BLOO | CK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 9 |
| 2.4 | SUPI | PORT UNITS | 9 |
| 3 | EFFEC | TIVE RADIATED POWER MEASUREMENT | 10 |
| 3.1 | LIMIT | - | 10 |
| 3.2 | TEST | PROCEDURE | 10 |
| 3.3 | DEVI | ATION FROM TEST STANDARD | 10 |
| 3.4 | TEST | SETUP | 10 |
| 3.5 | EUT | OPERATING CONDITIONS | 10 |
| 3.6 | TEST | RESULT | 10 |
| 4 | RADIAT | ED SPURIOUS EMISSIONS MEASUREMENT | 11 |
| 4.1 | LIMIT | - | 11 |
| 4.2 | TEST | PROCEDURE | 11 |
| 4.3 | DEVI | ATION FROM TEST STANDARD | 11 |
| 4.4 | TEST | SETUP | 12 |
| 4.5 | EUT | OPERATING CONDITIONS | 12 |
| 4.6 | TEST | RESULT | 12 |
| 5 | LIST OF | MEASURING EQUIPMENTS | 13 |
| 6 | EUT TE | ST PHOTO | 14 |
| 7 | EUT PH | OTOS | 14 |
| APPEN | IDIX A | EFFECTIVE RADIATED POWER | 15 |
| APPEN | IDIX B | RADIATED SPURIOUS EMISSIONS | 17 |



REVISION HISTORY

| Report No. | Version | Description | Issued Date | Note |
|---------------------|---------|-------------------------------|-------------|---------|
| BTL-FCCP-4-2311T076 | R00 | Original Report. | 2024/1/15 | Invalid |
| BTL-FCCP-4-2311T076 | R01 | Revised Typo. | 2024/3/22 | Invalid |
| BTL-FCCP-4-2311T076 | R02 | Revised Equipment Model Name. | 2024/3/27 | Valid |



1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| Standard(s) Section | Description | Test Result | Judgement | Remark |
|----------------------------------|------------------------------|-------------|-----------|--------|
| 2.1046 90.542(a)(7) | Effective Radiated Power | APPENDIX A | Pass | |
| | Peak To Average Ratio | NOTE (3) | Pass | |
| 2.1049 | Occupied Bandwidth | NOTE (3) | Pass | |
| 2.1051 90.210(b) | Emission Mask | NOTE (3) | Pass | |
| 2.1051 90.543(e)(2)(3) | Band Edge Measurements | NOTE (3) | Pass | |
| 2.1051 90.543(c) 90.543(f) | Conducted Spurious Emissions | NOTE (3) | Pass | |
| 2.1055 90.213 | Frequency Stability | NOTE (3) | Pass | |
| 2.1053 90.543(c) 90.543(f) | Radiated Spurious Emissions | APPENDIX B | Pass | |

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This item is demonstrated to full compliance referring to the test report number SEWM2304000133RG01 of the integrated module (model name: EM061K-GL, FCC ID: XMR2023EM061KGL), according to KDB 996369 D02 Q1 a) 2).
- (4) After spot check, this revision does not change original radio parameters.



1.1 **REFERENCE TEST GUIDANCE**

ANSI C63.26-2015 ANSI/TIA-603-E-2016 FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

1.2 **TEST FACILITY**

The test locations stated below are under the TAF Accreditation Number 0659. The test location(s) used to collect the test data in this report are: No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659) C05 \times SR10 ⊠ SR11 No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659) ⊠ CB21 □ CB22

□ C06

1.3 **MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = 2$, providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 Ucispr requirement.

A. Radiated emissions test :

| Test Site | Measurement Frequency Range | U,(dB) |
|-----------|--------------------------------|--------|
| | 0.03 GHz ~ 0.2 GHz | 4.17 |
| | 0.2 GHz ~ 1 GHz | 4.72 |
| CB21 | 1 GHz ~ 6 GHz | 5.21 |
| CB21 | 6 GHz ~ 18 GHz | 5.51 |
| | 18 GHz ~ 26 GHz | 3.69 |
| | 26 GHz ~ 40 GHz | 4.23 |

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.4 **TEST ENVIRONMENT CONDITIONS**

| Test Item | Environment Condition | Test Voltage | Tested by |
|-----------------------------|------------------------------|--------------|--------------|
| Effective Radiated Power | 23.2 °C, 42 % | AC 120V | Jerry Chuang |
| Radiated Spurious Emissions | Refer to data | AC 120V | Kevin Zhen |



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

| Equipment | Notebook Computer | | | | |
|---------------------|--|-----------|----------------|----|-----------|
| Model Name | TP00160A | • | | | |
| Brand Name | Lenovo | | | | |
| Model Difference | N/A | | | | |
| Power Source | DC voltage supplied fr (Lenovo/ ADLX65YSD | | Supply. | | |
| Power Rating | I/P: 100-240V~ 1.8A 50-60Hz O/P: 20.0VDC 3.25A 65.0W / 15.0VDC 3.0A / 9.0VDC 3.0A / 5.0VDC 3.0A 15.0W | | | | |
| WWAN Module | Quectel / EM061K-GL | | | | |
| Operation Frequency | Band UL Frequency (MHz) DL Frequency (| | requency (MHz) | | |
| Operation Frequency | LTE 14 | 788 ~ 798 | 3 | | 758 ~ 768 |
| | Band | BW (MHz) | Мо | de | Power (W) |
| | | 5 | QP | SK | 0.050 |
| Maximum ERP | 14 | 5 | 16Q | AM | 0.043 |
| | 14 | 10 | QP | SK | 0.050 |
| | | 10 | 16Q | AM | 0.043 |
| Test Model | TP00160A | | | | |
| Sample Status | Engineering Sample | | | | |
| EUT Modification(s) | N/A | | | | |

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Table for Filed Antenna:

| Antenna | Manufacture | Parts Number | Туре | Connector | Gain (dBi) | Note |
|---------|--------------|--------------|------|-----------|------------|-------------|
| Main | Luxshare-ICT | DC330022F20 | PIFA | I-PEX | -3.93 | LTE Band 14 |
| Aux | Luxshare-ICT | DC330022F20 | PIFA | I-PEX | - | RX only |

| Antenna | Manufacture | Parts Number | Туре | Connector | Gain (dBi) | Note |
|---------|-------------|--------------|------|-----------|------------|-------------|
| Main | SPEEDWIRE | DC330022J60 | PIFA | I-PEX | -3.93 | LTE Band 14 |
| Aux | SPEEDWIRE | DC330022J60 | PIFA | I-PEX | - | RX only |

(3) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



2.2 **TEST MODES**

| Test Items | Band | Test Mode | Note |
|--|-------------|---------------------|------|
| Effective Radiated Power | LTE Band 14 | Refer to APPENDIX A | - |
| Radiated Spurious Emissions (Below 1G) | LTE Band 14 | TX Mode (CH 23330) | - |
| Radiated Spurious Emissions (Above 1G) | LTE Band 14 | TX Mode (CH 23330) | - |

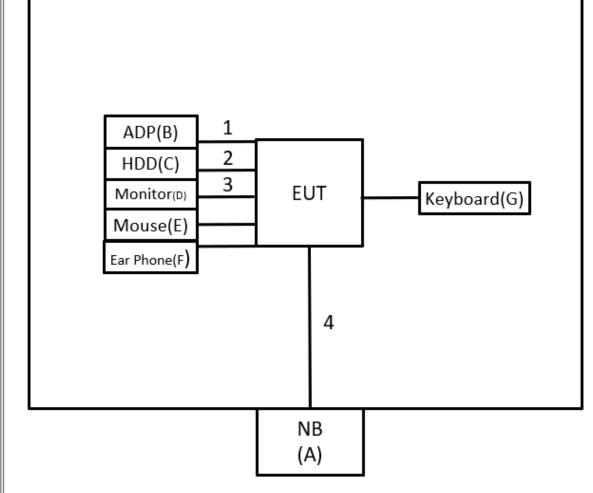
NOTE:

(1) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
(2) For Radiated Spurious Emissions both QPSK and 16QAM are evaluated, but only the worst case (QPSK) is recorded.



2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

| Item | Equipment | Brand | Model No. | Series No. | Remarks |
|------|----------------|--------------|--------------|-----------------------------|-----------------------------|
| Α | NB | HP | TPN-I119 | N/A | Furnished by test lab. |
| В | ADP | Lenovo | ADLX65YSDC2A | N/A | Supplied by test requester. |
| С | USB 2.5" HDD | TOSIBA | XS700 | 483B60M9KQS S | Furnished by test lab. |
| D | 27" 4K Monitor | DELL | U2720Q | CN-083VF-WSL 00-0B7-332L | Furnished by test lab. |
| Е | Mouse | Lenovo | SM-8823 | N/A | Furnished by test lab. |
| F | Ear Phone | HTC | N/A | N/A | Furnished by test lab. |
| G | Keyboard | Bloody | KB-8 | N/A | Furnished by test lab. |
| | | | | | |
| Item | Shielded | Ferrite Core | Length | Cable Type | Remarks |
| 1 | N/A | N/A | 0.9m | Power Cord | Supplied by test requester. |
| 2 | N/A | N/A | 1m | Type C to USB Cable | Furnished by test lab. |
| 3 | N/A | N/A | 1.8m | HDMI | Furnished by test lab. |
| 4 | N/A | N/A | 10m | RJ45 Cable | Furnished by test lab. |
| | | | | | |



3 EFFECTIVE RADIATED POWER MEASUREMENT

3.1 LIMIT

Mobile / Portable station are limited to 3 watts e.r.p.

3.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi..
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP

| Communication | FUT |
|---------------|-----|
| Simulator | 201 |

3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT

Please refer to the APPENDIX A.



4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$. The emission limit equal to -13 dBm.

NOTE:

- (1) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.
- (2) The test result calculated as following:
 - Measurement Value = Reading Level + Correct Factor
 - Correct Factor = Antenna Factor + Cable Loss Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level (dBm) | | Correct Factor (dB/m) | | Measurement Value (dBm) |
|------------------------|---|--------------------------|---|----------------------------|
| -50.43 | + | -2.11 | = | -52.54 |

| Measurement Value (dBm) | | Limit Value (dBm) | | Margin Level (dB) |
|----------------------------|---|----------------------|---|----------------------|
| -52.54 | - | -13 | = | -39.54 |

4.2 TEST PROCEDURE

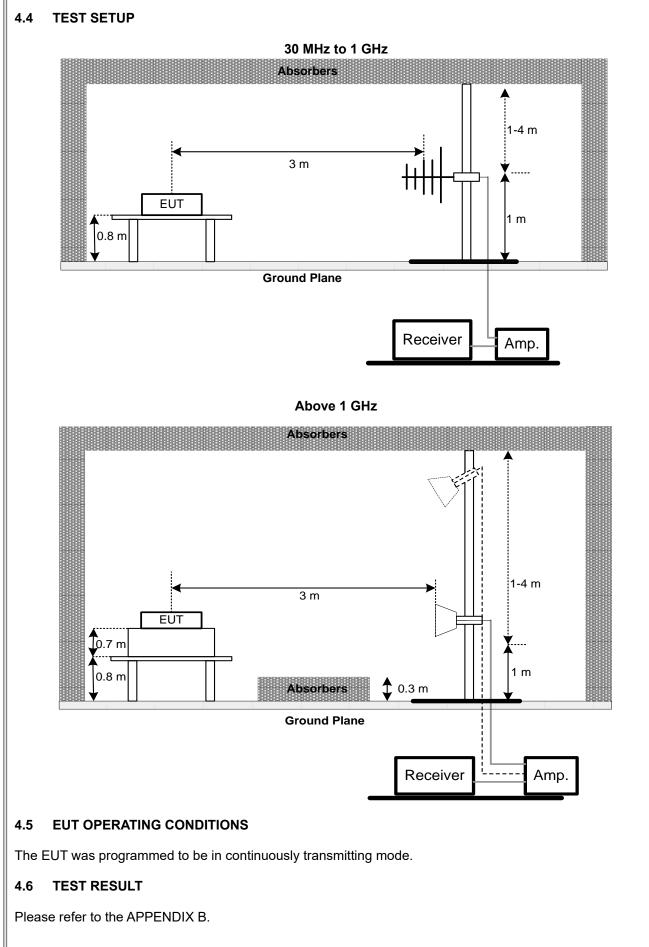
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi..
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.3 DEVIATION FROM TEST STANDARD

No deviation.







5 LIST OF MEASURING EQUIPMENTS **Effective Radiated Power** Kind of Calibrated Calibrated Item Manufacturer Type No. Serial No. Equipment Date Until WIRELESS 1 COMMUNICATIO Agilent E5515C GB47390193 2023/7/4 2024/7/3 N TEST SET Radio 2 Communication ANRITSU MT8820C 6201381608 2022/12/22 2023/12/21 Analyzer Radio 3 2023/11/22 2024/11/21 Communication ANRITSU MT8821C 6262044728 Test Station **Radiated Emissions** Calibrated Calibrated Kind of Item Manufacturer Serial No. Type No. Equipment Date Until 1 Preamplifier EMCI EMC330N 980850 2023/9/6 2024/9/5 2023/3/7 Preamplifier EMC118A45SE 980819 2024/3/6 2 EMCI 3 Pre-Amplifier EMCI EMC184045SE 980907 2023/9/21 2024/9/20 EMC104-SM-100 4 Test Cable EMCI 180809 2023/7/10 2024/7/9 0 EMC104-SM-SM-5 Test Cable EMCI 220322 2023/3/14 2024/3/13 3000 EMC104-SM-SM-6 220324 Test Cable EMCI 2023/3/14 2024/3/13 7000 **EXA Signal** 7 keysight N9020B MY57120120 2023/2/24 2024/2/23 Analyzer 8 Horn Antenna RFSPIN DRH18-E 211202A18EN 2023/5/12 2024/5/11 9 Horn Ant Schwarzbeck **BBHA 9170D** 1136 2023/5/12 2024/5/11 Log-bicon 10 Schwarzbeck **VULB9168** 1369 2023/5/9 2024/5/8 Antenna 11 6dB Attenuator EMCI EMCI-N-6-06 AT-06001 2023/5/9 2024/5/8 EMC101G-KM-K 12 Test Cable EMCI 2023/3/14 2024/3/13 220329 M-3000 EMC102-KM-KM-13 **Test Cable** EMCI 220327 2023/3/14 2024/3/13 1000 WIRELESS 14 COMMUNICATIO Agilent E5515C GB47390193 2023/7/4 2024/7/3 N TEST SET Radio 15 ANRITSU MT8820C 6201381608 2022/12/22 2023/12/21 Communication Analyzer Radio ANRITSU 6262044728 2023/11/22 2024/11/21 16 Communication MT8821C **Test Station** Wideband Radio 17 Communication R&S CMW500 154121 2023/1/12 2024/1/11 Tester EZ EMC Measurement 18 ΕZ (Version N/A N/A N/A Software NB-03A1-01)

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



6 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2311T076-FCCP-1 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2311T076-1 (APPENDIX-EUT PHOTOS).



APPENDIX A EFFECTIVE RADIATED POWER



| | BW | | Frequency | | UL RB | UL RB | | Average power | ERP power | ERP power |
|------|-------|---------|-----------|-------|------------|--------|-----|---------------|-----------|-----------|
| Band | (MHz) | Channel | (MHz) | Mode | Allocation | Offset | MPR | (dBm) | (dBm) | (W) |
| | | | | | 1 | 0 | 0 | 23.01 | 16.93 | 0.049 |
| | | | | QPSK | 1 | 12 | 0 | 23.04 | 16.96 | 0.050 |
| | | | | QF3K | 1 | 24 | 0 | 23.05 | 16.97 | 0.050 |
| | | 23305 | 790.5 | | 25 | 0 | 1 | 22.16 | 16.08 | 0.041 |
| | | 23303 | 790.5 | | 1 | 0 | 1 | 22.36 | 16.28 | 0.042 |
| | | | | 16QAM | 1 | 12 | 1 | 22.32 | 16.24 | 0.042 |
| | | | | IUQAW | 1 | 24 | 1 | 22.24 | 16.16 | 0.041 |
| | | | | | 25 | 0 | 2 | 21.11 | 15.03 | 0.032 |
| | | | | | 1 | 0 | 0 | 23.00 | 16.92 | 0.049 |
| | 14 5 | | | QPSK | 1 | 12 | 0 | 23.03 | 16.95 | 0.050 |
| | | | 793.0 | 16QAM | 1 | 24 | 0 | 23.04 | 16.96 | 0.050 |
| 14 | | 23330 | | | 25 | 0 | 1 | 22.16 | 16.08 | 0.041 |
| | 5 | | 755.0 | | 1 | 0 | 1 | 22.37 | 16.29 | 0.043 |
| | .4 5 | | | | 1 | 12 | 1 | 22.29 | 16.21 | 0.042 |
| | | | | | 1 | 24 | 1 | 22.26 | 16.18 | 0.041 |
| | | | | | 25 | 0 | 2 | 21.14 | 15.06 | 0.032 |
| | | | | | 1 | 0 | 0 | 23.00 | 16.92 | 0.049 |
| | | | | QPSK | 1 | 12 | 0 | 23.02 | 16.94 | 0.049 |
| | | | | QISK | 1 | 24 | 0 | 23.05 | 16.97 | 0.050 |
| | | 23355 | 795.5 | | 25 | 0 | 1 | 22.16 | 16.08 | 0.041 |
| | | 23333 | 755.5 | | 1 | 0 | 1 | 22.38 | 16.30 | 0.043 |
| | | | | 16QAM | 1 | 12 | 1 | 22.29 | 16.21 | 0.042 |
| | | | | TOCUM | 1 | 24 | 1 | 22.26 | 16.18 | 0.041 |
| | | | | | 25 | 0 | 2 | 21.10 | 15.02 | 0.032 |

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | ERP power (dBm) | ERP power (W) |
|------|-------------|---------|--------------------|--------|---------------------|-----------------|-----|------------------------|--------------------|------------------|
| | | | | | 1 | 0 | 0 | 23.07 | 16.99 | 0.050 |
| | | | | QPSK | 1 | 24 | 0 | 23.08 | 17.00 | 0.050 |
| | | | | QPSK | 1 | 49 | 0 | 23.11 | 17.03 | 0.050 |
| 14 | 10 | 23330 | 793.0 | | 50 | 0 | 1 | 22.21 | 16.13 | 0.041 |
| 14 | 10 | 25550 | 793.0 | | 1 | 0 | 1 | 22.43 | 16.35 | 0.043 |
| | | | | 160414 | 1 | 24 | 1 | 22.37 | 16.29 | 0.043 |
| | | | | 16QAM | 1 | 49 | 1 | 22.31 | 16.23 | 0.042 |
| | | | | | 50 | 0 | 2 | 21.18 | 15.10 | 0.032 |

NOTE:

(1) EIRP = Average power + Antenna gain. (2) ERP = EIRP - 2.15. (3) P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000



APPENDIX B RADIATED SPURIOUS EMISSIONS



| | | Test Mode LTE Banderst Channel CH233 | | | | | | | | | | est Dat | | | | /11/29 | | |
|--------|--------|--------------------------------------|---------------|--------|--------|------|------|-------|--------------|--------|-----|---------|--------|--------|----------|---------|-------------|--|
| | le | | | | | | | 0 | Polarization | | | | | | Vertical | | | |
| 0.0 | dB | Tem | 0 | | | 2 | 3°C | | | | | Hum. | | | 50 | 6% | | |
| 0.0 | aB | m | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -10 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| -30 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -40 | | | | | | | | | | | | | | | | | _ | |
| | | | | | | | | | | | | | | | | | | |
| -50 - | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -60 | | | | | | | | | | | | | | | | | - | |
| | 1 X | 2 X | 2 | | | | | | | | | | | | | | | |
| -70 | | | 3 X 4 X | 5 X | 6 X | | | | | | | | | | | | 1 | |
| -80 | | | ^ | | x | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| -90 - | | | | | | | | | | | | | | | | | _ | |
| -100.0 | | | | | | | | | | | | | | | | | | |
| 30.0 | nnn | 127.0 | 0 224 | 00 | 321 | 00 | 418. | 00 | 515. | nn | 612 | 00 | 709.0 | 0 806 | nn | 1000.00 | _ ⊨ MH₂ | |
| No. | | Mk. | Fred | | | ding | | rrect | | easure | | Limit | . 00.0 | Over | | 1000.00 | | |
| 110. | | iviit. | 1100 | 1. | | vel | | ctor | | ment | | Luur | | 0.101 | | | | |
| | | | MH | Z | | 3m | | βB | | dBm | | dBm | | dB | Detector | Comme | ent | |
| 1 | | * | 43.48 | | | 8.86 | | .49 | | 67.35 | | -13.00 | | -54.35 | peak | | | |
| 2 | | | 84.09 | | | 2.83 | | .87 | | 68.70 | | -13.00 | | -55.70 | peak | | | |
| 3 | | | 176.34 | 106 | | 9.39 | | .40 | | 71.79 | | -13.00 | | -58.79 | peak | | | |
| 4 | | | 216.0 | 136 | -71 | .05 | -3 | .75 | - | 74.80 | | -13.00 | | -61.80 | peak | | | |
| 5 | | | 256.30 | 010 | -71 | .38 | -3 | 6.01 | - | 74.39 | | -13.00 | | -61.39 | peak | | | |
| 6 | | | 300.85 | 563 | -72 | 2.49 | -3 | 5.29 | - | 75.78 | | -13.00 | | -62.78 | peak | | | |

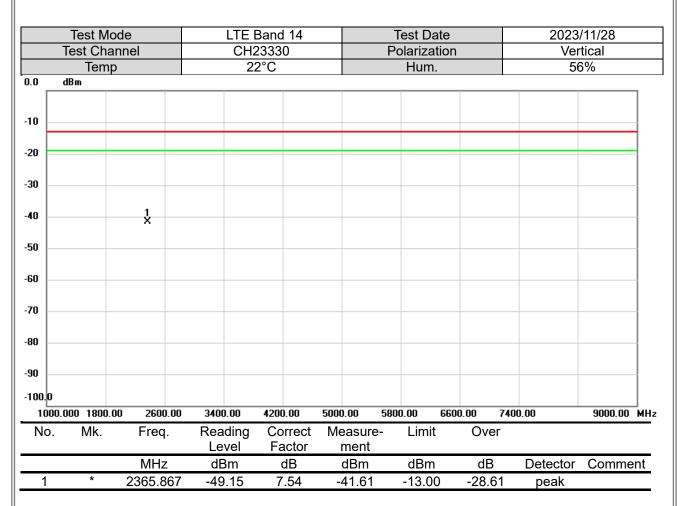
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.



| | Fest Mo | | | | | Band | | | | | est Dat | | | | /11/29 | | | | | |
|--------|-------------|--------|------------|-------------|---------|--------|-----------------|------|----------------|--------------|---------|--------|-------|----------|------------|-----|-----|--|--|--|
| Te | est Cha | | | | CH23330 | | | | | Polarization | | | | | Horizontal | | | | | |
| | Тетр dBm | | | | | | | | | | | | Hum. | | | | 56% | | | |
| 0.0 dB | m | | | | | | | | | | | | | | | _ | | | | |
| -10 | | | | | | | | | | | | | | | | | | | | |
| -20 | | | | | | | | | | | | | | | | | | | | |
| -30 | | | | | | | | | | | | | | | | | | | | |
| -40 | | | | | | | | | | | | | | | | | | | | |
| -50 | | | | | | | | | | | | | | | | | | | | |
| -60 | | | | | | | | | | | | | | | | | | | | |
| -70 * | 2 X | 3 X | 4 X | | 5 X | 6 X | | | | | | | | | | | | | | |
| -80 | | | | | | ^ | | | | | | | | | | | | | | |
| -90 | | | | | | | | | | | | | | | | | | | | |
| -100.0 | | | | | | | | | | | | | | | | | | | | |
| 30.000 | 127.00 | 224. | 00 | 321.0 |)0 | 418 | .00 | 515. | 00 | 612. | | 709.00 | 806 | 5.00 | 1000.00 | MHz | | | | |
| No. | Mk. | Freq | . | Read Lev | | | orrect actor | | easure ment | - | Limit | | Over | | | | | | | |
| | | MHz | z | dB | m | | dB | | dBm | | dBm | | dB | Detector | Comm | ent | | | | |
| 1 | * | 30.97 | 00 | -69 | -69.58 | | 2.76 | - | 66.82 | | -13.00 | - | 53.82 | peak | | | | | | |
| 2 | | 110.05 | 573 | -61 | .27 | -8 | 8.13 | - | 69.40 | | -13.00 | - | 56.40 | peak | | | | | | |
| 3 | | 177.37 | 753 | -63 | .74 | -(| 6.33 | - | 70.07 | | -13.00 | - | 57.07 | peak | | | | | | |
| 4 | | 250.67 | 750 | -65 | .12 | - | 7.97 | - | 73.09 | | -13.00 | - | 60.09 | peak | | | | | | |
| 5 | | 329.34 | 120 | -70. | .47 | -4 | 4.07 | - | 74.54 | | -13.00 | - | 61.54 | peak | | | | | | |
| 6 | | 392.55 | 537 | -72 | .23 | -2 | 2.46 | - | 74.69 | | -13.00 | - | 61.69 | peak | | | | | | |

(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.





(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



| | Test Mo Test Char | | | Band 14 23330 | | Test Date Polarization | | | /11/28 zontal | |
|-------|----------------------|-----------|------------------|-------------------|------------------|---------------------------|-----------|-------------------|------------------|-----|
| | Temp | | | 2°C | | Hum. | | Horizontal 56% | | |
|).0 | dBm | | L | 2.0 | | Tidini. | | | 570 | |
| Г | | | | | | | | | | ٦. |
| 10 | | | | | | | | | | |
| 20 - | | | | | | | | | | |
| 30 - | | | | | | | | | | |
| 40 - | | 1 | | | | | | | | |
| 50 - | | X | | | | | | | | |
| 60 - | | | | | | | | | | |
| 70 - | | | | | | | | | | |
| 80 - | | | | | | | | | | |
| 90 - | | | | | | | | | | |
| 100.0 | | | | | | | | | | |
| 100 | 0.000 1800.0 | D 2600.00 | 3400.00 | 4200.00 | 5000.00 | 5800.00 66 | 00.00 740 | 0.00 | 9000.00 | мн |
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | | |
| | | MHz | dBm | dB | dBm | dBm | dB | Detector | Comme | ent |
| 1 | * | 2365.867 | -53.26 | 7.70 | -45.56 | -13.00 | -32.56 | peak | | |

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.

End of Test Report