



# FCC RADIO TEST REPORT

| FCC ID       | : 2AJN7-TP00122AUC   |
|--------------|--|
| Equipment    | : Notebook Computer/Foldable PC                                    |
| Brand Name   | : Lenovo   |
| Model Name   | : TP00122A   |
| Applicant    | : LC Future Center Limited Taiwan Branch                           |
|              | 7F., No. 780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan |
| Manufacturer | : LCFC (HeFei) Electronics Technology Co., Ltd.                    |
|              | No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei       |
|              | Economics & Technology Development Area, Anhui, CHINA              |
| Standard     | : FCC 47 CFR Part 2, and 90(S)                                     |

Equipment: Foxconn T99W175 tested inside of Lenovo Notebook Computer/Foldable PC.

The product was received on Jul. 21, 2020 and testing was started from Aug. 17, 2020 and completed on Aug. 28, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis W/m

Approved by: Louis Wu SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan



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# History of this test report

| Version | Description             | Issued Date   |
|---------|-------------------------|---------------|
| 01      | Initial issue of report | Sep. 18, 2020 |
|         |                         |               |
|         |                         |               |
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|         |                         |               |



# **Summary of Test Result**

| Report<br>Clause | Ref Std.<br>Clause | Test Items                                       | Result<br>(PASS/FAIL) | Remark                                     |
|------------------|--------------------|--|-----------------------|--|
| _                | §2.1046            | Conducted Output Power                           | -                     | See Note                                   |
|                  | §90.635            | and Effective Radiated Power                     |                       |  |
| -                | -                  | Peak-to-Average Ratio                            | -                     | See Note                                   |
| -                | §2.1049<br>§90.209 | Occupied Bandwidth and 26dB Bandwidth            | -                     | See Note                                   |
| -                | §2.1051<br>§90.691 | Emission masks –<br>In-band emissions            | -                     | See Note                                   |
| -                | §2.1051<br>§90.691 | Emission masks –<br>Out of band emissions        | -                     | See Note                                   |
| -                | §2.1055<br>§90.213 | Frequency Stability for<br>Temperature & Voltage | -                     | See Note                                   |
| 3.1              | §2.1053<br>§90.691 | Field Strength of Spurious Radiation             | Pass                  | Under limit<br>26.12 dB at<br>2440.000 MHz |

**Note:** The module (Model: T99W175) makes no difference after verifying output power, this report reuses test data from the module report.

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

#### **Reviewed by: Wii Chang**

**Report Producer: Celery Wei** 



# **1** General Description

### **1.1 Feature of Equipment Under Test**

| Product Feature                 |                                    |  |  |  |  |  |  |
|---------------------------------|------------------------------------|--|--|--|--|--|--|
| Equipment                       | Notebook Computer/Foldable PC      |  |  |  |  |  |  |
| Brand Name                      | Lenovo                             |  |  |  |  |  |  |
| Model Name                      | TP00122A                           |  |  |  |  |  |  |
| FCC ID                          | 2AJN7-TP00122AUC                   |  |  |  |  |  |  |
|                                 | WCDMA/HSPA/LTE/GNSS/5G NR          |  |  |  |  |  |  |
|                                 | WLAN 11a/b/g/n HT20/HT40           |  |  |  |  |  |  |
| EUT supports Radios application | WLAN 11ac VHT20/VHT40/VHT80/VHT160 |  |  |  |  |  |  |
|                                 | WLAN 11ax HE20/HE40/HE80/HE160     |  |  |  |  |  |  |
|                                 | Bluetooth BR/EDR/LE                |  |  |  |  |  |  |
| EUT Stage                       | Production Unit                    |  |  |  |  |  |  |

#### Remark:

- 1. The above EUT's information was declared by manufacturer.
- 2. Equipment: Foxconn T99W175 tested inside of Lenovo Notebook Computer.
- 3. All test items were performed with Main Antenna.

| WWAN Antenna Information |              |                 |                 |      |  |  |  |  |  |
|--------------------------|--------------|-----------------|-----------------|------|--|--|--|--|--|
| Main Antenna             | Manufacturer | Amphenol        | Peak gain (dBi) | 1.94 |  |  |  |  |  |
|                          | Part number  | LXA494-16-000-C | Туре            | PIFA |  |  |  |  |  |
| MIMO 2 Antenna           | Manufacturer | Amphenol        | Peak gain (dBi) | 1.44 |  |  |  |  |  |
|                          | Part number  | LXA493-16-000-C | Туре            | PIFA |  |  |  |  |  |

### **1.2 Product Specification of Equipment Under Test**

| Product Specification subjective to this standard |                                      |  |  |  |  |  |  |  |
|---|--------------------------------------|--|--|--|--|--|--|--|
| Tx Frequency                                      | LTE Band 26 : 814.7 ~ 823.3 MHz      |  |  |  |  |  |  |  |
| Rx Frequency                                      | LTE Band 26 : 859.7 ~ 868.3 MHz      |  |  |  |  |  |  |  |
| Bandwidth   | 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz |  |  |  |  |  |  |  |
| Type of Modulation                                | QPSK / 16QAM / 64QAM / 256QAM        |  |  |  |  |  |  |  |



### **1.3 Modification of EUT**

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

### **1.4 Testing Site**

| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications<br>Laboratory        |  |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|--|
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan |  |  |  |  |  |  |
| Toot Site No       | Sporton Site No.  |  |  |  |  |  |  |
| Test Site No.      | 03CH12-HY   |  |  |  |  |  |  |
| Test Engineer      | Jack Cheng, Lance Chiang and Chuan Chu  |  |  |  |  |  |  |
| Temperature        | <b>22.8~26.2</b> ℃  |  |  |  |  |  |  |
| Relative Humidity  | 56.5~68.6%  |  |  |  |  |  |  |

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW0007

### 1.5 Applied Standards

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

- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.



# 2 Test Configuration of Equipment Under Test

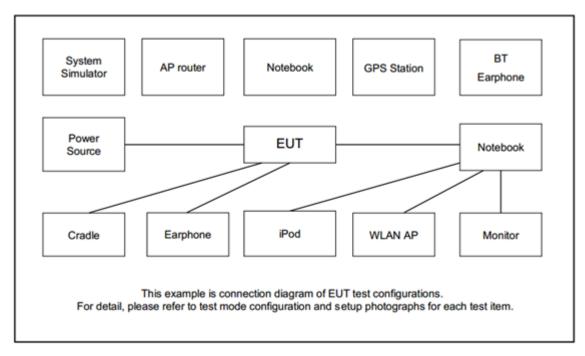
### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

| Conducted                     | Dand                 |                                      | Ba                                      | ndwid                                    | th (MHz) Modulation                       |  |  | RB #                    |                                       |                                  | Test Channel |      |      |   |   |      |
|-------------------------------|----------------------|--------------------------------------|---|--|---|--|--|-------------------------|---------------------------------------|----------------------------------|--------------|------|------|---|---|------|
| Test Cases                    | Band                 | 1.4                                  | 3                                       | 5  | 10  | 15                                     | 20                                     | QPSK                    | 16QAM                                 | 64QAM                            | 1            | Half | Full | L | М | Н    |
| Radiated Spurious<br>Emission | 26                   | v                                    |   |  | v   | v                                      | -                                      | v                       |                                       |                                  | v            |      |      | v | v | v    |
| Remark                        | 2. Th<br>3. LT<br>El | ne marl<br>E Ban<br>RP ove<br>equenc | k "-" me<br>d26 tra<br>r 15M⊦<br>y spec | eans th<br>insmit f<br>Iz bane<br>trum w | hat this<br>frequer<br>dwidth<br>rhich fa | bandw<br>ncy for<br>compli<br>Ils with | idth is<br>part22<br>es the<br>in part | not suppo<br>rule is 82 | 24MHz-84<br>t line of pa<br>complies. | ting<br>I9MHz, fo<br>art22 rule, | •            |      |      |   |   | ИНz. |

# 2.2 Connection Diagram of Test System





### 2.3 Support Unit used in test configuration and system

| ltem | Equipment        | Brand Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | Anritsu    | MT8821C   | N/A    | N/A        | Unshielded, 1.8 m |

# 2.4 Frequency List of Low/Middle/High Channels

| LTE Band 26 Channel and Frequency List |                        |        |                  |         |  |  |  |  |  |  |
|--|------------------------|--------|------------------|---------|--|--|--|--|--|--|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle           | Highest |  |  |  |  |  |  |
| 15                                     | Channel                | 26765  | -                | -       |  |  |  |  |  |  |
|  | Frequency              | 821.5  | -                | -       |  |  |  |  |  |  |
| 10                                     | Channel                | -      | 26740            | -       |  |  |  |  |  |  |
| 10                                     | Frequency              | -      | t Middle Highest | -       |  |  |  |  |  |  |
|  | Channel                | 26697  | 26740            | 26783   |  |  |  |  |  |  |
| 1.4                                    | Frequency              | 814.7  | 819              | 823.3   |  |  |  |  |  |  |

# 3 Radiated Test Items

### 3.1 Field Strength of Spurious Radiation Measurement

#### 3.1.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log<sub>10</sub>(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

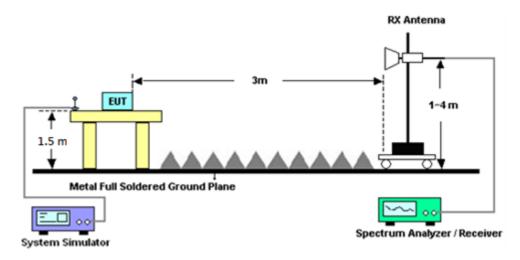
#### 3.1.2 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)



#### 3.1.3 Test Setup

For radiated test above 1GHz



#### 3.1.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix A.



# 4 List of Measuring Equipment

| Instrument           | Brand Name         | Model No.           | Serial No.           | Characteristics                  | Calibration<br>Date | Test Date                       | Due Date      | Remark                   |
|----------------------|--------------------|---------------------|----------------------|----------------------------------|---------------------|---------------------------------|---------------|--------------------------|
| Horn Antenna         | SCHWARZBE<br>CK    | BBHA 9120 D         | 9120D-132<br>8       | 1GHz~18GHz                       | Nov. 14, 2019       | Aug. 17, 2020~<br>Aug. 28, 2020 | Nov. 13, 2020 | Radiation<br>(03CH12-HY) |
| Preamplifier         | Agilent            | 8449B               | 3008A023<br>75       | 1GHz~26.5GHz                     | Mar. 26, 2020       | Aug. 17, 2020~<br>Aug. 28, 2020 | Mar. 25, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier         | Jet-Power          | JPA0118-55-3<br>03K | 171000180<br>0054002 | 1GHz~18GHz                       | Feb. 07, 2020       | Aug. 17, 2020~<br>Aug. 28, 2020 | Feb. 06, 2021 | Radiation<br>(03CH12-HY) |
| Spectrum<br>Analyzer | Rohde &<br>Schwarz | FSV3044             | 101048               | 10Hz~44GHz                       | Apr. 29, 2020       | Aug. 17, 2020~<br>Aug. 28, 2020 | Apr. 28, 2021 | Radiation<br>(03CH12-HY) |
| Signal Generator     | Anritsu            | MG3694C             | 163401               | 0.1Hz~40GHz                      | Feb. 15, 2020       | Aug. 17, 2020~<br>Aug. 28, 2020 | Feb. 14, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable             | HUBER +<br>SUHNER  | SUCOFLEX<br>126E    | 0058/126E            | 30MHz~18GHz                      | Dec. 12, 2019       | Aug. 17, 2020~<br>Aug. 28, 2020 | Dec. 11, 2020 | Radiation<br>(03CH12-HY) |
| RF Cable             | HUBER +<br>SUHNER  | SUCOFLEX<br>102     | 505134/2             | 30MHz~40GHz                      | Feb. 25, 2020       | Aug. 17, 2020~<br>Aug. 28, 2020 | Feb. 24, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable             | HUBER +<br>SUHNER  | SUCOFLEX<br>102     | 800740/2             | 30MHz~40GHz                      | Feb. 25, 2020       | Aug. 17, 2020~<br>Aug. 28, 2020 | Feb. 24, 2021 | Radiation<br>(03CH12-HY) |
| Hygrometer           | TECPEL             | DTM-303B            | TP140349             | N/A                              | Oct. 25, 2019       | Aug. 17, 2020~<br>Aug. 28, 2020 | Oct. 24, 2020 | Radiation<br>(03CH12-HY) |
| Controller           | EMEC               | EM1000              | N/A                  | Control Turn<br>table & Ant Mast | N/A                 | Aug. 17, 2020~<br>Aug. 28, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Antenna Mast         | EMEC               | AM-BS-4500-<br>B    | N/A                  | 1m~4m                            | N/A                 | Aug. 17, 2020~<br>Aug. 28, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Turn Table           | EMEC               | TT2000              | N/A                  | 0~360 Degree                     | N/A                 | Aug. 17, 2020~<br>Aug. 28, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Software             | Audix              | E3<br>6.2009-8-24   | RK-00098<br>9        | N/A                              | N/A                 | Aug. 17, 2020~<br>Aug. 28, 2020 | N/A           | Radiation<br>(03CH12-HY) |



# 5 Uncertainty of Evaluation

#### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| Measuring Uncertainty for a Level of | 3.21 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y))       | 3.21 |



# Appendix A. Test Results of Radiated Test

| LTE Band 26 / 1.4MHz / QPSK |                    |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|--------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>(MHz) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                      | 1632               | -62.98         | -13              | -49.98                  | -71.35                  | -68.52                   | 0.91                       | 8.60                        | Н                     |
|                             | 2448               | -58.89         | -13              | -45.89                  | -72.33                  | -66.23                   | 1.14                       | 10.63                       | Н                     |
|                             | 3256               | -57.35         | -13              | -44.35                  | -72.77                  | -65.80                   | 1.32                       | 11.91                       | Н                     |
|                             | 1632               | -63.63         | -13              | -50.63                  | -71.53                  | -69.17                   | 0.91                       | 8.60                        | V                     |
|                             | 2448               | -58.81         | -13              | -45.81                  | -72.34                  | -66.15                   | 1.14                       | 10.63                       | V                     |
|                             | 3256               | -56.58         | -13              | -43.58                  | -72.49                  | -65.03                   | 1.32                       | 11.91                       | V                     |
|                             | 1640               | -62.98         | -13              | -49.98                  | -71.38                  | -68.54                   | 0.92                       | 8.63                        | Н                     |
|                             | 2456               | -57.63         | -13              | -44.63                  | -71.09                  | -64.98                   | 1.14                       | 10.64                       | Н                     |
| Middle                      | 3280               | -57.33         | -13              | -44.33                  | -72.7                   | -65.83                   | 1.32                       | 11.97                       | Н                     |
| Middle                      | 1640               | -63.50         | -13              | -50.50                  | -71.39                  | -69.06                   | 0.92                       | 8.63                        | V                     |
|                             | 2456               | -58.74         | -13              | -45.74                  | -72.3                   | -66.09                   | 1.14                       | 10.64                       | V                     |
|                             | 3280               | -56.61         | -13              | -43.61                  | -72.46                  | -65.11                   | 1.32                       | 11.97                       | V                     |
|                             | 1648               | -63.22         | -13              | -50.22                  | -71.64                  | -68.81                   | 0.92                       | 8.66                        | Н                     |
| Highest                     | 2472               | -58.49         | -13              | -45.49                  | -71.96                  | -65.86                   | 1.14                       | 10.66                       | Н                     |
|                             | 3296               | -57.37         | -13              | -44.37                  | -72.7                   | -65.91                   | 1.32                       | 12.01                       | Н                     |
|                             | 1648               | -63.87         | -13              | -50.87                  | -71.76                  | -69.46                   | 0.92                       | 8.66                        | V                     |
|                             | 2472               | -58.62         | -13              | -45.62                  | -72.24                  | -65.99                   | 1.14                       | 10.66                       | V                     |
|                             | 3296               | -57.29         | -13              | -44.29                  | -73.09                  | -65.83                   | 1.32                       | 12.01                       | V                     |

# LTE Band 26

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 26 / 10MHz / QPSK |                    |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|--------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>(MHz) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                     | 1632               | -62.77         | -13              | -49.77                  | -71.14                  | -68.31                   | 0.91                       | 8.60                        | Н                     |
|                            | 2440               | -39.12         | -13              | -26.12                  | -52.55                  | -46.45                   | 1.14                       | 10.62                       | Н                     |
|                            | 3256               | -57.44         | -13              | -44.44                  | -72.86                  | -65.89                   | 1.32                       | 11.91                       | Н                     |
|                            | 1632               | -63.27         | -13              | -50.27                  | -71.17                  | -68.81                   | 0.91                       | 8.60                        | V                     |
|                            | 2440               | -46.89         | -13              | -33.89                  | -60.32                  | -54.22                   | 1.14                       | 10.62                       | V                     |
|                            | 3256               | -56.86         | -13              | -43.86                  | -72.28                  | -65.31                   | 1.32                       | 11.91                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 26 / 15MHz / QPSK |                    |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|--------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>(MHz) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1656               | -62.12         | -13              | -49.12                  | -70.57                  | -67.74                   | 0.92                       | 8.69                        | Н                     |
|                            | 2488               | -47.22         | -13              | -34.22                  | -60.72                  | -54.61                   | 1.15                       | 10.68                       | Н                     |
|                            | 3312               | -57.43         | -13              | -44.43                  | -72.73                  | -66.00                   | 1.33                       | 12.05                       | Н                     |
|                            | 1656               | -62.99         | -13              | -49.99                  | -70.87                  | -68.61                   | 0.92                       | 8.69                        | V                     |
|                            | 2488               | -52.76         | -13              | -39.76                  | -66.45                  | -60.15                   | 1.15                       | 10.68                       | V                     |
|                            | 3312               | -57.19         | -13              | -44.19                  | -72.95                  | -65.76                   | 1.33                       | 12.05                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.