



## Maximum Permissible Exposure Report

### 1. Product Information

|                     |   |
|---------------------|---|
| FCC ID              | : 2ATFT-AT133   |
| EUT                 | : Smart Android Car TV  |
| Test Model          | : AT133   |
| Power Supply        | : For AC Adapter: Input:100-240V~, 50/60Hz, 0.5A<br>Output: 12.0V=1.5A, 18.0W<br>For DC Adapter: Input: DC 12-24V<br>Output: 12V=1.5A,          |
| Hardware Version    | : V1.0  |
| Software Version    | : /   |
| Bluetooth           |   |
| Frequency Range     | : 2402MHz~2480MHz   |
| Channel Number      | : 79 channels for Bluetooth V4.2(DSS)<br>40 channels for Bluetooth V4.2 (DTS)   |
| Channel Spacing     | : 1MHz for Bluetooth V4.2 (DSS)<br>2MHz for Bluetooth V4.2 (DTS)  |
| Modulation Type     | : GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V4.2(DSS)<br>GFSK for Bluetooth V4.2 (DTS)   |
| Bluetooth Version   | : V4.2  |
| Antenna Description | : Chip Antenna, 1.82dBi(Max.)   |
| 2.4G WLAN           |   |
| Frequency Range     | : 2412MHz~2462MHz   |
| Channel Spacing     | : 5MHz  |
| Channel Number      | : 11 Channels for 20MHz bandwidth (2412~2462MHz)<br>7 Channels for 40MHz bandwidth (2422~2452MHz)   |
| Modulation Type     | : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)      |
| Antenna Description | : Chip Antenna, 1.82dBi(Max.)   |
| 5.2G WLAN           |   |
| Frequency Range     | : 5180MHz~5240MHz   |
| Channel Number      | : 4 channels for 20MHz bandwidth(5180MHz~5240MHz)<br>2 channels for 40MHz bandwidth(5190MHz~5230MHz)<br>1 channels for 80MHz bandwidth(5210MHz) |
| Modulation Type     | : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)  |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



|                     |  |
|---------------------|--|
|                     | IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)   |
| Antenna Description | : Chip Antenna, -0.69dBi(Max.)   |
| 5.8G WLAN           |  |
| Frequency Range     | : 5745MHz~5825MHz  |
| Channel Number      | : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)<br>2 channels for 40MHz bandwidth(5755MHz~5795MHz)<br>1 channels for 80MHz bandwidth(5775MHz)            |
| Modulation Type     | : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | : Chip Antenna, 0.59dBi(Max.)  |
| Exposure category   | : General population/uncontrolled environment  |
| EUT Type            | : Production Unit  |
| Device Type         | : Portabel Devices   |

## 2. Evaluation Method

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} (\text{GHz})] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- a) The  $[\sum \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg}] + [\sum \text{ of MPE ratios}] \leq 1.0$ .
- b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all  $\leq 0.04$ , and the  $[\sum \text{ of MPE ratios}] \leq 1.0$ .

### 3. Limit

#### 3. 1 Refer Evaluation Method

[ANSI C95.1–1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices

#### 3. 2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100) *                             | 6                       |
| 3.0 – 30                                    | 1842/f                       | 4.89/f                       | (900/f <sup>2</sup> )*              | 6                       |
| 30 – 300                                    | 61.4                         | 0.163                        | 1.0                                 | 6                       |
| 300 – 1500                                  | /                            | /                            | f/300                               | 6                       |
| 1500 – 100,000                              | /                            | /                            | 5                                   | 6                       |

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz)                          | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Uncontrolled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                     | 614                          | 1.63                         | (100) *                             | 30                      |
| 3.0 – 30                                      | 824/f                        | 2.19/f                       | (180/f <sup>2</sup> )*              | 30                      |
| 30 – 300                                      | 27.5                         | 0.073                        | 0.2                                 | 30                      |
| 300 – 1500                                    | /                            | /                            | f/1500                              | 30                      |
| 1500 – 100,000                                | /                            | /                            | 1.0                                 | 30                      |

F=frequency in MHz

\*=Plane-wave equivalent power density





#### 4. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

| Internal/External Identification | Antenna type and antenna number | Operate frequency band | Maximum antenna gain   | Notes           |
|----------------------------------|---------------------------------|------------------------|--|-----------------|
| Internal                         | Chip Antenna                    | 2400-6000MHz           | BT: 1.82dBi<br>2.4G WLAN: 1.82dBi<br>5.2G WLAN: -0.69dBi<br>5.8G WLAN: 0.59dBi | BT/WIFI Antenna |

#### 5. Conducted Power

[BT]

| Mode           | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|----------------|---------|-----------------|-----------------------------------|
| GFSK           | 0       | 2402            | 0.46                              |
|                | 39      | 2441            | 0.55                              |
|                | 79      | 2480            | 0.54                              |
| $\pi/4$ -DQPSK | 0       | 2402            | 0.07                              |
|                | 39      | 2441            | 0.29                              |
|                | 79      | 2480            | 0.32                              |
| 8-DPSK         | 0       | 2402            | 0.22                              |
|                | 39      | 2441            | 0.39                              |
|                | 79      | 2480            | 0.43                              |

[BT LE]

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|------|---------|-----------------|-----------------------------------|
| GFSK | 0       | 2402            | -2.67                             |
|      | 19      | 2440            | -2.25                             |
|      | 39      | 2480            | -2.08                             |

[2.4G WLAN]

| Mode              | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|-------------------|---------|-----------------|-----------------------------------|
| IEEE 802.11b      | 1       | 2412            | 15.43                             |
|                   | 6       | 2437            | 15.66                             |
|                   | 11      | 2462            | 15.44                             |
| IEEE 802.11g      | 1       | 2412            | 15.55                             |
|                   | 6       | 2437            | 15.79                             |
|                   | 11      | 2462            | 15.67                             |
| IEEE 802.11n HT20 | 1       | 2412            | 14.88                             |
|                   | 6       | 2437            | 15.01                             |
|                   | 11      | 2462            | 15.53                             |
| IEEE 802.11n HT40 | 3       | 2422            | 14.31                             |
|                   | 6       | 2437            | 14.28                             |
|                   | 9       | 2462            | 14.34                             |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## [5.2G WLAN]

| Mode                | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|---------------------|---------|-----------------|--------------------------------------|
| IEEE 802.11a        | 36      | 5180            | 13.03                                |
|                     | 40      | 5200            | 12.71                                |
|                     | 48      | 5240            | 11.82                                |
| IEEE 802.11n HT20   | 36      | 5180            | 12.57                                |
|                     | 40      | 5200            | 12.27                                |
|                     | 48      | 5240            | 10.88                                |
| IEEE 802.11n HT40   | 38      | 5190            | 12.64                                |
|                     | 46      | 5230            | 11.16                                |
| IEEE 802.11ac VHT20 | 36      | 5180            | 12.62                                |
|                     | 40      | 5200            | 12.36                                |
|                     | 48      | 5240            | 11.24                                |
| IEEE 802.11ac VHT40 | 38      | 5190            | 12.56                                |
|                     | 46      | 5230            | 11.17                                |
| IEEE 802.11ac VHT80 | 42      | 5210            | 11.6                                 |

## [5.8G WLAN]

| Mode                | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|---------------------|---------|-----------------|--------------------------------------|
| IEEE 802.11a        | 149     | 5745            | 11.86                                |
|                     | 157     | 5785            | 11.74                                |
|                     | 165     | 5825            | 11.29                                |
| IEEE 802.11n HT20   | 149     | 5745            | 11.84                                |
|                     | 157     | 5785            | 11.59                                |
|                     | 165     | 5825            | 11.28                                |
| IEEE 802.11n HT40   | 151     | 5755            | 11.65                                |
|                     | 159     | 5795            | 11.28                                |
| IEEE 802.11ac VHT20 | 149     | 5745            | 11.81                                |
|                     | 157     | 5785            | 11.62                                |
|                     | 165     | 5825            | 11.3                                 |
| IEEE 802.11ac VHT40 | 151     | 5755            | 11.56                                |
|                     | 159     | 5795            | 11.3                                 |
| IEEE 802.11ac VHT80 | 155     | 5775            | 11.07                                |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

**6. Manufacturing Tolerance**

[BT]

| GFSK(Peak)       |           |            |            |
|------------------|-----------|------------|------------|
| Channel          | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)     | 0         | 0          | 0          |
| Tolerance ± (dB) | 1.0       | 1.0        | 1.0        |
| π/4-DQPSK(Peak)  |           |            |            |
| Channel          | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)     | 0         | 0          | 0          |
| Tolerance ± (dB) | 1.0       | 1.0        | 1.0        |
| 8-DPSK(Peak)     |           |            |            |
| Channel          | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)     | 0         | 0          | 0          |
| Tolerance ± (dB) | 1.0       | 1.0        | 1.0        |

[BT LE]

| GFSK(Peak)       |           |            |            |
|------------------|-----------|------------|------------|
| Channel          | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)     | -2.0      | -2.0       | -2.0       |
| Tolerance ± (dB) | 1.0       | 1.0        | 1.0        |

[2.4G WLAN]

| IEEE 802.11b(Peak)   |            |            |            |
|----------------------|------------|------------|------------|
| Channel              | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)         | 15.0       | 15.0       | 15.0       |
| Tolerance ± (dB)     | 1.0        | 1.0        | 1.0        |
| IEEE 802.11g(Peak)   |            |            |            |
| Channel              | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)         | 15.0       | 15.0       | 15.0       |
| Tolerance ± (dB)     | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n20(Peak) |            |            |            |
| Channel              | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)         | 14.0       | 15.0       | 15.0       |
| Tolerance ± (dB)     | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n40(Peak) |            |            |            |
| Channel              | Channel 03 | Channel 06 | Channel 09 |
| Target (dBm)         | 15.0       | 15.0       | 15.0       |
| Tolerance ± (dB)     | 1.0        | 1.0        | 1.0        |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## [5.2G WLAN]

| IEEE 802.11a (Average)        |            |            |            |
|-------------------------------|------------|------------|------------|
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 13.0       | 12.0       | 11.0       |
| Tolerance ± (dB)              | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT20 (Average)   |            |            |            |
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 12.0       | 12.0       | 10.0       |
| Tolerance ± (dB)              | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT40 (Average)   |            |            |            |
| Channel                       | Channel 38 | Channel 46 |            |
| Target (dBm)                  | 12.0       | 11.0       |            |
| Tolerance ± (dB)              | 1.0        | 1.0        |            |
| IEEE 802.11ac VHT20 (Average) |            |            |            |
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 12.0       | 12.0       | 11.0       |
| Tolerance ± (dB)              | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ac VHT40 (Average) |            |            |            |
| Channel                       | Channel 38 | Channel 46 |            |
| Target (dBm)                  | 12.0       | 11.0       |            |
| Tolerance ± (dB)              | 1.0        | 1.0        |            |
| IEEE 802.11ac VHT80(Average)  |            |            |            |
| Channel                       | Channel 42 |            |            |
| Target (dBm)                  | 11.0       |            |            |
| Tolerance ± (dB)              | 1.0        |            |            |





[5.8G WLAN]

| IEEE 802.11a (Average)        |             |             |             |
|-------------------------------|-------------|-------------|-------------|
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 11.0        | 11.0        | 11.0        |
| Tolerance ± (dB)              | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT20 (Average)   |             |             |             |
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 11.0        | 11.0        | 11.0        |
| Tolerance ± (dB)              | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT40 (Average)   |             |             |             |
| Channel                       | Channel 151 | Channel 159 |             |
| Target (dBm)                  | 11.0        | 11.0        |             |
| Tolerance ± (dB)              | 1.0         | 1.0         |             |
| IEEE 802.11ac VHT20 (Average) |             |             |             |
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 11.0        | 11.0        | 11.0        |
| Tolerance ± (dB)              | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ac VHT40 (Average) |             |             |             |
| Channel                       | Channel 151 | Channel 159 |             |
| Target (dBm)                  | 11.0        | 11.0        |             |
| Tolerance ± (dB)              | 1.0         | 1.0         |             |
| IEEE 802.11ac VHT80(Average)  |             |             |             |
| Channel                       | Channel 155 |             |             |
| Target (dBm)                  | 11.0        |             |             |
| Tolerance ± (dB)              | 1.0         |             |             |







## 7. Measurement Results

### 7.1 Standalone MPE Evaluation

[BT]

| Band/Mode |          | f (GHz) | Antenna Distance (mm) | RF output power |        | SAR Test Exclusion Threshold | SAR Test Exclusion |
|-----------|----------|---------|-----------------------|-----------------|--------|------------------------------|--------------------|
|           |          |         |                       | dBm             | mW     |                              |                    |
| BT        | GFSK     | 2.480   | 25                    | 1.0             | 1.2589 | 0.0793 <3.0                  | Yes                |
|           | π/4DQPSK | 2.480   | 25                    | 1.0             | 1.2589 | 0.0793 <3.0                  | Yes                |
|           | 8DPSK    | 2.480   | 25                    | 1.0             | 1.2589 | 0.0793 <3.0                  | Yes                |

[BT LE]

| Band/Mode |      | f (GHz) | Antenna Distance (mm) | RF output power |        | SAR Test Exclusion Threshold | SAR Test Exclusion |
|-----------|------|---------|-----------------------|-----------------|--------|------------------------------|--------------------|
|           |      |         |                       | dBm             | mW     |                              |                    |
| BT LE     | GFSK | 2.480   | 25                    | -1.0            | 1.2589 | 0.0500 <3.0                  | Yes                |

[2.4G WIFI]

| Modulation Type   | f (GHz) | Antenna Distance (mm) | Output power |         | SAR Test Exclusion Threshold | SAR Test Exclusion |
|-------------------|---------|-----------------------|--------------|---------|------------------------------|--------------------|
|                   |         |                       | dBm          | mW      |                              |                    |
| IEEE 802.11b      | 2.4     | 25                    | 16.0         | 39.8107 | 2.4925 <3.0                  | Yes                |
| IEEE 802.11g      | 2.4     | 25                    | 16.0         | 39.8107 | 2.4925 <3.0                  | Yes                |
| IEEE 802.11n HT20 | 2.4     | 25                    | 16.0         | 39.8107 | 2.4925 <3.0                  | Yes                |
| IEEE 802.11n HT40 | 2.4     | 25                    | 16.0         | 39.8107 | 2.4925 <3.0                  | Yes                |

[5.2G WIFI]

| Modulation Type     | f (GHz) | Antenna Distance (mm) | Output power |         | SAR Test Exclusion Threshold | SAR Test Exclusion |
|---------------------|---------|-----------------------|--------------|---------|------------------------------|--------------------|
|                     |         |                       | dBm          | mW      |                              |                    |
| IEEE 802.11a        | 5.2     | 25                    | 14.0         | 25.1189 | 2.2912 <3.0                  | Yes                |
| IEEE 802.11n HT20   | 5.2     | 25                    | 13.0         | 19.9526 | 1.8200 <3.0                  | Yes                |
| IEEE 802.11n HT40   | 5.2     | 25                    | 13.0         | 19.9526 | 1.8200 <3.0                  | Yes                |
| IEEE 802.11ac VHT20 | 5.2     | 25                    | 13.0         | 19.9526 | 1.8200 <3.0                  | Yes                |
| IEEE 802.11ac VHT40 | 5.2     | 25                    | 13.0         | 19.9526 | 1.8200 <3.0                  | Yes                |
| IEEE 802.11ac VHT80 | 5.2     | 25                    | 12.0         | 15.8489 | 1.4456 <3.0                  | Yes                |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



[5.8G WIFI]

| Modulation Type     | f (GHz) | Antenna Distance (mm) | Output power |         | SAR Test Exclusion Threshold | SAR Test Exclusion |
|---------------------|---------|-----------------------|--------------|---------|------------------------------|--------------------|
|                     |         |                       | dBm          | mW      |                              |                    |
| IEEE 802.11a        | 5.8     | 25                    | 12.0         | 15.8489 | 1.5268 <3.0                  | Yes                |
| IEEE 802.11n HT20   | 5.8     | 25                    | 12.0         | 15.8489 | 1.5268 <3.0                  | Yes                |
| IEEE 802.11n HT40   | 5.8     | 25                    | 12.0         | 15.8489 | 1.5268 <3.0                  | Yes                |
| IEEE 802.11ac VHT20 | 5.8     | 25                    | 12.0         | 15.8489 | 1.5268 <3.0                  | Yes                |
| IEEE 802.11ac VHT40 | 5.8     | 25                    | 12.0         | 15.8489 | 1.5268 <3.0                  | Yes                |
| IEEE 802.11ac VHT80 | 5.8     | 25                    | 12.0         | 15.8489 | 1.5268 <3.0                  | Yes                |

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 25mm from user manual provide by manufacturer.

7.2 Simultaneous Transmission MPE Evaluation

The EUT equipped with one antenna. So no need consider simultaneous transmission.

8. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----THE END OF REPORT-----

