

KDB 178919 D01

FCC RADIO TEST REPORT

FCC ID: 2BBDIVBK30C21

Product: Telematics Headunit

Trade Mark: 

Model No.: 30C21

Family Model: N/A

Report No.: S24121204713004

Issue Date: Jan 03, 2025

Prepared for

Wuxi Auto-link World Information Technology Co., Ltd
No. 2, Gaokai Road, Economic Development Zone, Wuxi City,
Jiangsu Province, P.R. China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: Wuxi Auto-link World Information Technology Co., Ltd

Address: No. 2, Gaokai Road, Economic Development Zone, Wuxi City, Jiangsu Province, P.R. China

Manufacturer's Name: Wuxi Auto-link World Information Technology Co., Ltd

Address: No. 2, Gaokai Road, Economic Development Zone, Wuxi City, Jiangsu Province, P.R. China

Product description

Product name: Telematics Headunit

Trademark:



Model and/or type reference: 30C21

Family Model: N/A

Test Sample number: S241212047015

Date of Test: Dec 27, 2024 ~ Jan 03, 2025

Standards: FCC Part15.407

Test procedure: ANSI C63.10-2013

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D03 Client Without DFS New Rules v01r02

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 178919 D01

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Revision History

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.407) , Subpart E | | | |
|---|---------------------|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| 15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407(b)(8)(9) | Radiated Emissions | PASS | |
| 15.203 | Antenna Requirement | PASS | |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

| | |
|-----------------|---|
| CNAS-Lab. | : The Certificate Registration Number is L5516. |
| IC-Registration | The Certificate Registration Number is 9270A. CAB identifier:CN0074 |
| FCC- Accredited | Test Firm Registration Number: 463705. Designation Number: CN1184 |
| A2LA-Lab. | The Certificate Registration Number is 4298.01 |
| Name of Firm | : Shenzhen NTEK Testing Technology Co., Ltd. |
| Site Location | : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China. |

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|-------------------------------------|-------------------------|
| 1 | Conducted Emission Test | $\pm 2.80\text{dB}$ |
| 2 | RF power, conducted | $\pm 0.16\text{dB}$ |
| 3 | Spurious emissions, conducted | $\pm 0.21\text{dB}$ |
| 4 | All emissions, radiated(9KHz~30MHz) | $\pm 6\text{dB}$ |
| 5 | All emissions, radiated(30MHz~1GHz) | $\pm 2.64\text{dB}$ |
| 6 | All emissions, radiated(1GHz~6GHz) | $\pm 2.40\text{dB}$ |
| 7 | All emissions, radiated(> 6GHz) | $\pm 2.52\text{dB}$ |
| 8 | Temperature | $\pm 0.5^\circ\text{C}$ |
| 9 | Humidity | $\pm 2\%$ |

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

| | |
|---|--|
| Equipment | Telematics Headunit |
| Trade Mark | JETOUR |
| Model Name | 30C21 |
| Family Model | N/A |
| Model Difference | N/A |
| FCC ID | 2BBDIVBK30C21 |
| Product Description | Mode Supported <input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n(HT20) <input checked="" type="checkbox"/> 802.11n(HT40) <input checked="" type="checkbox"/> 802.11ac(HT20) <input checked="" type="checkbox"/> 802.11ac(HT40) <input checked="" type="checkbox"/> 802.11ac(HT80) |
| | Data Rate 802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9 |
| | Modulation OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac; |
| | Operating Frequency Range <input checked="" type="checkbox"/> U-NII-1: 5150 MHz ~5250MHz <input checked="" type="checkbox"/> U-NII-3: 5725 MHz ~5850 MHz |
| | Function: <input type="checkbox"/> Outdoor AP <input type="checkbox"/> Indoor AP <input type="checkbox"/> Fixed P2P <input checked="" type="checkbox"/> Client |
| | DFS type: <input type="checkbox"/> master devices <input type="checkbox"/> Slave devices with radar detection <input checked="" type="checkbox"/> Slave devices without radar detection |
| | Support TPC <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| | Smart system <input checked="" type="checkbox"/> SISO for 802.11a/n/ac <input checked="" type="checkbox"/> MIMO for 802.11n/ac |
| | Antenna Type Ant 1:Internal Antenna; Ant 2: Internal Antenna |
| | Antenna Gain 5.2G: Ant 1: 3.49 dBi; Ant 2: 0.93 dBi 5.8G: Ant 1: 1.47 dBi; Ant 2: -0.32 dBi |
| Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual. | |
| Adapter | N/A |
| Battery | N/A |
| Power supply | DC 12.0V |
| Connecting I/O Port(s) | Please refer to the User's Manual |
| HW Version | N/A |
| SW Version | N/A |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list:

| Band | 20MHz | | 40MHz | | 80MHz | |
|---------|---------|-----------|---------|-----------|---------|-----------|
| | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| U-NII-1 | 36 | 5180 MHz | 38 | 5190 MHz | 42 | 5210 MHz |
| | 40 | 5200 MHz | 46 | 5230 MHz | - | - |
| | 44 | 5220 MHz | | | | |
| | 48 | 5240 MHz | | | | |
| | 136 | 5680 MHz | | | | |
| | 140 | 5700 MHz | | | | |
| U-NII-3 | 149 | 5745 MHz | 151 | 5755 MHz | 155 | 5775 MHz |
| | 153 | 5765 MHz | 159 | 5795 MHz | | |
| | 157 | 5785 MHz | | | | |
| | 161 | 5805 MHz | | | | |
| | 165 | 5825 MHz | | | | |

3. The module for 5G WIFI have two antenna. please refer to antenna list for more antenna information.

Table 1:

| Antenna | Antenna Type | Antenna Gain(dBi) | |
|---------|------------------|-------------------|----------|
| | | 5.2GWIFI | 5.8GWIFI |
| 1(main) | Internal Antenna | 3.49 | 1.47 |
| 2(aux) | Internal Antenna | 0.93 | -0.32 |

| Mode | Tx/Rx |
|------------|--------------------|
| 802.11a | 1Tx, 1Rx |
| 802.11n/ac | 1Tx, 1Rx, 2Tx, 2Rx |

1.2 DESCRIPTION OF TEST MODES

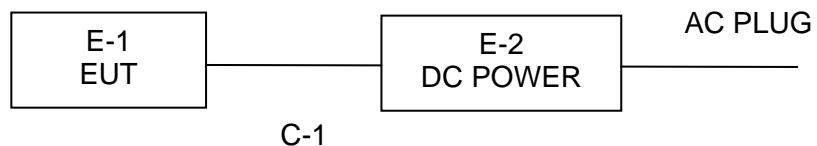
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| For Radiated Emission | |
|-----------------------|--|
| Final Test Mode | Description |
| Mode 1 | 802.11a / n/ ac20 CH36/ CH40/ CH48CH149/CH157/CH165 |
| Mode 2 | 802.11n40/ac40 CH38/CH46 /CH151/CH159 |
| Mode 3 | 802.11ac80 CH42/ CH155 |

| Mode | Frequency (MHz) | Power Setting |
|--------------|-----------------|---------------|
| 802.11n HT20 | 5180 | 10 |
| | 5200 | 10 |
| | 5240 | 10 |
| | 5745 | 10 |
| | 5785 | 10 |
| | 5825 | 10 |

Note:

The measurements are performed at the highest, middle, lowest available channels.

1.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

1.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Manufacturer | Model | Series No. | Note |
|------|---------------------|--------------|-------|------------|-------------|
| E-1 | Telematics Headunit | N/A | 30C21 | N/A | EUT |
| E-2 | DC POWER | N/A | N/A | N/A | Peripherals |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Note |
|------|-------------|---------------|--------------|------|
| C-1 | Power Cable | N/A | NO | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) During the battery power test, the battery is fully charged.

1.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|------------------------------------|--------------|--------------|---------------|------------------|------------------|--------------------|
| 1 | Spectrum Analyzer | Agilent | E4440A | MY41000130 | 2024.04.26 | 2025.04.25 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2024.04.25 | 2025.04.24 | 1 year |
| 3 | Spectrum Analyzer | R&S | FSV40 | 101417 | 2024.04.25 | 2025.04.24 | 1 year |
| 4 | Test Receiver | R&S | ESPI7 | 101318 | 2024.04.26 | 2025.04.25 | 1 year |
| 5 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2024.05.12 | 2025.05.11 | 1 year |
| 6 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2024.04.26 | 2027.04.25 | 3 year |
| 7 | Horn Antenna | EM | EM-AH-10180 | 2011071402 | 2024.05.12 | 2027.05.11 | 3 year |
| 8 | Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | 803 | 2024.05.12 | 2027.05.11 | 3 year |
| 9 | Amplifier | EMC | EMC051835 SE | 980246 | 2024.04.25 | 2025.04.24 | 1 year |
| 10 | Active Loop Antenna | SCHWARZBECK | FMZB 1519B | 055 | 2024.05.17 | 2027.05.16 | 3 year |
| 11 | Power Meter | DARE | RPR3006W | 15I00041SN084 | 2024.04.25 | 2025.04.24 | 1 year |
| 12 | Test Cable (9KHz-30MHz) | N/A | R-01 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 13 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 14 | High Test Cable(1G-40GHz) | N/A | R-03 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 15 | Filter | TRILTHIC | 2400MHz | 29 | 2024.04.26 | 2027.04.25 | 3 year |
| 16 | temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

2. EMC EMISSION TEST

2.1 RADIATED EMISSION MEASUREMENT

2.1.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

2.1.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part 15.205, Restricted bands

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Restricted Frequency(MHz) | Field Strength (μ V/m) | Field Strength (dB μ V/m) | Measurement Distance |
|---------------------------|-----------------------------|-------------------------------|----------------------|
| 0.009~0.490 | 2400/F(KHz) | 20 log (μ V/m) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 20 log (μ V/m) | 30 |
| 1.705~30.0 | 30 | 29.5 | 30 |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Limits of Radiated Emission Measurement(Above 1000MHz)

| Frequency(MHz) | Class B (dB μ V/m) (at 3M) | |
|----------------|--------------------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Remark :1. Emission level in dB μ V/m=20 log (μ V/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

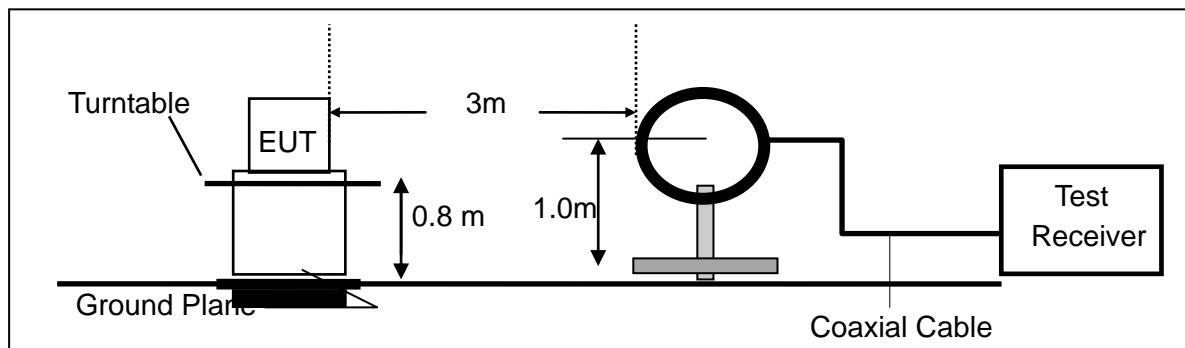
Limit line=Specific limits(dBuV) + distance extrapolation factor.

2.1.3 MEASURING INSTRUMENTS

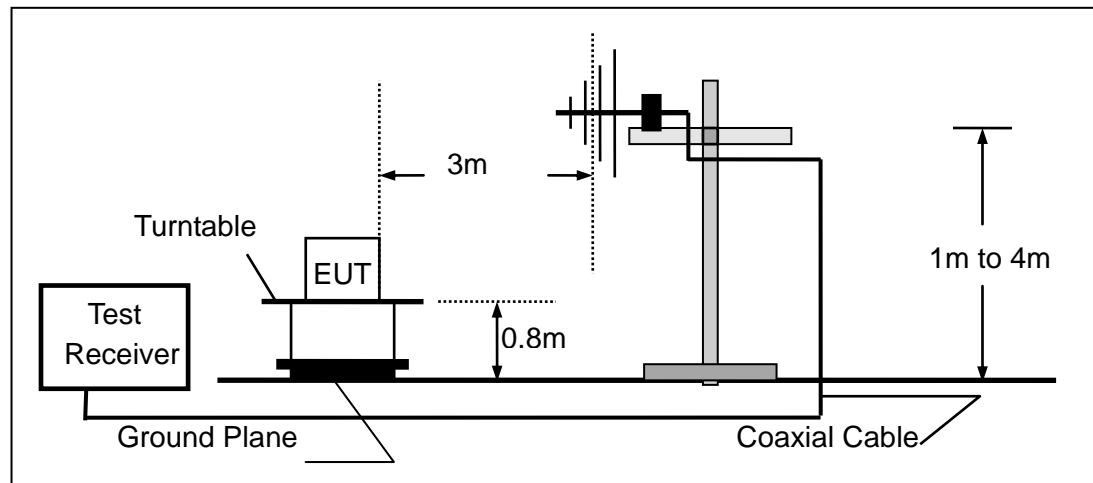
The Measuring equipment is listed in the section 1.2 of this test report.

2.1.4 TEST CONFIGURATION

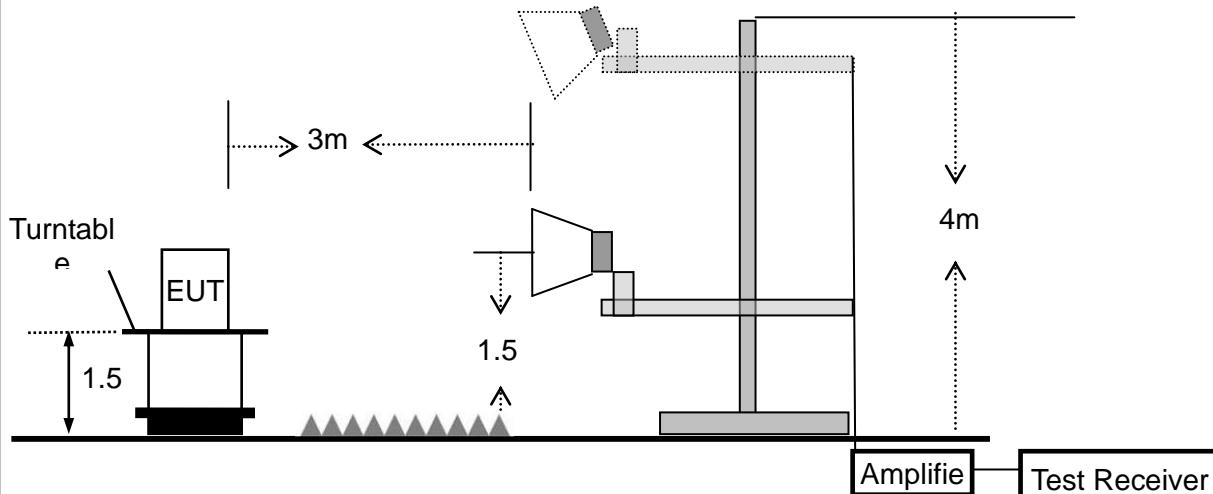
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



2.1.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

| Spectrum Parameter | Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000 | QP | 120 kHz | 300 kHz |
| Above 1000 | Peak | 1 MHz | 1 MHz |
| | Average | 1 MHz | 10 Hz |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] = $10 \cdot \lg(100 \text{ [kHz]} / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

2.1.6 TEST RESULTS (9KHZ – 30 MHZ)

| | | | |
|---------------|---------------------|---------------------|--------|
| EUT : | Telematics Headunit | Model No.: | 30C21 |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure: | 1010 hPa | Test Voltage : | DC 12V |
| Test Mode : | TX | Polarization : | -- |

| Freq. (MHz) | Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | State |
|----------------|---------------------|-------------------|----------------|-------|
| -- | -- | -- | -- | N/A |
| -- | -- | -- | -- | N/A |

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2.1.7 TEST RESULTS (30MHZ – 1GHZ)

| | | | |
|---------------|---------------------|---------------------|--------|
| EUT : | Telematics Headunit | Model No.: | 30C21 |
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 1010 hPa | Test Voltage : | DC 12V |
| Test Mode : | 802.11n20 mimo mode | | |

| Polar (H/V) | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark |
|----------------|-----------|------------------|--------|-------------------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| V | 57.1914 | 9.70 | 19.18 | 28.88 | 40.00 | -11.12 | QP |
| V | 85.5973 | 12.79 | 14.62 | 27.41 | 40.00 | -12.59 | QP |
| V | 108.2664 | 16.04 | 17.91 | 33.95 | 43.50 | -9.55 | QP |
| V | 141.8262 | 24.78 | 14.38 | 39.16 | 43.50 | -4.34 | QP |
| V | 492.4685 | 12.30 | 24.42 | 36.72 | 46.00 | -9.28 | QP |
| V | 760.7033 | 7.68 | 29.01 | 36.69 | 46.00 | -9.31 | QP |

Remark:

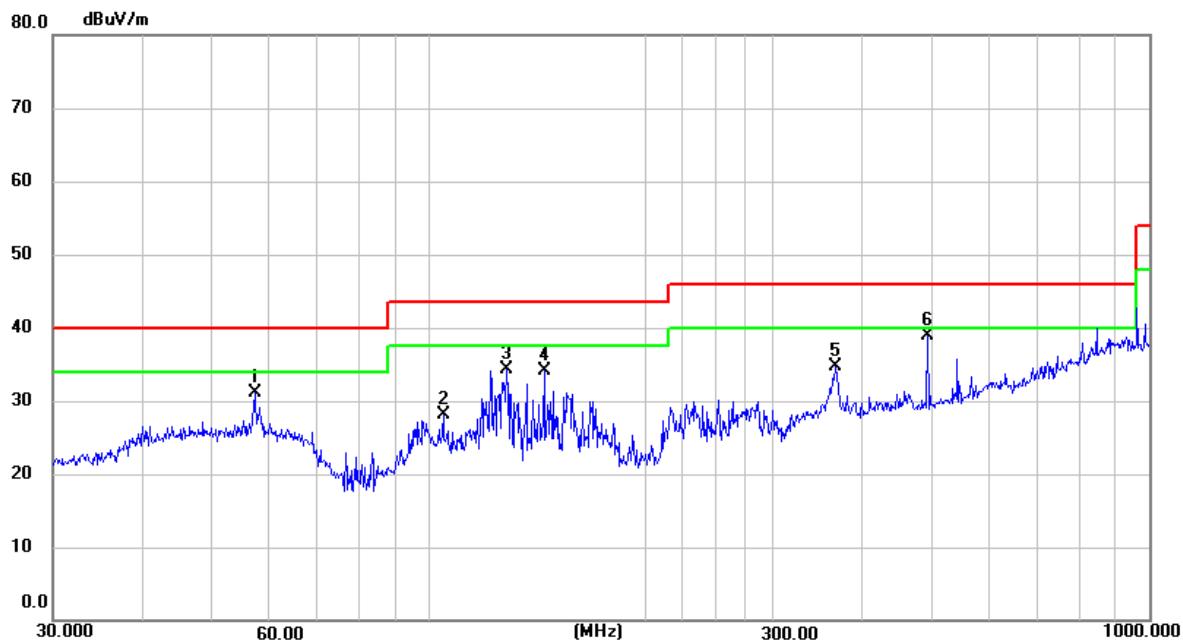
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



| Polar (H/V) | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark |
|----------------|-----------|------------------|--------|-------------------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| H | 57.1914 | 11.99 | 19.18 | 31.17 | 40.00 | -8.83 | QP |
| H | 104.5360 | 9.97 | 18.15 | 28.12 | 43.50 | -15.38 | QP |
| H | 128.1130 | 19.28 | 15.04 | 34.32 | 43.50 | -9.18 | QP |
| H | 144.3343 | 19.56 | 14.49 | 34.05 | 43.50 | -9.45 | QP |
| H | 366.8231 | 12.47 | 22.23 | 34.70 | 46.00 | -11.30 | QP |
| H | 492.4685 | 14.44 | 24.42 | 38.86 | 46.00 | -7.14 | QP |

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Note: All modes have been tested, just the worst mode has been recorded in the report.

2.3 ANTENNA REQUIREMENT

2.3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

2.3.2 EUT ANTENNA

The EUT antenna is permanent attached Internal Antenna. It comply with the standard requirement.

END OF REPORT