

Report No: CCISE190810503V01

FCC REPORT

| Applicant: | Shenzhen LINGDU Auto Electronics Co., Ltd. | | |
|-------------------------|---|--|--|
| Address of Applicant: | 1801-1808 Haiyun Building, No. 468 Minzhi Avenue, Longhua, Shenzhen, China | | |
| Equipment Under Test (E | EUT) | | |
| Product Name: | CAR DVR | | |
| Model No.: | LS01, BN03 | | |
| FCC ID: | 2ASWV-LS01 | | |
| Applicable standards: | FCC CFR Title 47 Part 15 Subpart B | | |
| Date of sample receipt: | 30 Aug., 2019 | | |
| Date of Test: | 31 Aug., to 29 Sep., 2019 | | |
| Date of report issued: | 23 Oct., 2019 | | |
| Test Result: | PASS * | | |

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Version 2

| Version No. | Date | Description | |
|-------------|---------------|--|--|
| 00 | 30 Sep., 2019 | Original | |
| 01 | 23 Oct., 2019 | Updated address of Applicant and Manufacturer on P.1, P.5 | |
| | | | |
| | | | |
| | | | |

Tested by:

Test Engineer Winner Mang

Date:

23 Oct., 2019

23 Oct., 2019

Reviewed by:

Date:

Project Engineer



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4 Test Summary

| Test Item | Section in CFR 47 | Result | | | |
|--|--|--------|--|--|--|
| Conducted Emission | Part 15.107 | Pass | | | |
| Radiated Emission | Part 15.109 | Pass | | | |
| Remark: | | | | | |
| 1. Pass: The EUT complies with the esse | 1. Pass: The EUT complies with the essential requirements in the standard. | | | | |
| 2. N/A: The EUT not applicable of the test item. | | | | | |
| Test Method: ANSI C63.4:2014 | | | | | |



5 General Information

5.1 Client Information

| Applicant: | Shenzhen LINGDU Auto Electronics Co., Ltd. | | | |
|---------------|---|--|--|--|
| Address: | 1801-1808 Haiyun Building, No. 468 Minzhi Avenue, Longhua, Shenzhen, China | | | |
| Manufacturer: | Shenzhen LINGDU Auto Electronics Co., Ltd. | | | |
| Address: | 1801-1808 Haiyun Building, No. 468 Minzhi Avenue, Longhua, Shenzhen, China | | | |
| Factory: | Dongguan Kaka Electronic Technology Co., LTD. | | | |
| Address: | No.395, Huanshi East Road, Shitanpu District, Tangxia Town, Dongguan City, China | | | |

5.2 General Description of E.U.T.

| Product Name: | CAR DVR |
|------------------------|---|
| Model No.: | LS01, BN03 |
| | Model: HC-801 |
| Car adapter: | Input: DC12-24V |
| | Output: DC 5.0V, 2.5A |
| Remark: | Model No.: LS01, BN03 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and for different areas. |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects. |

5.3 Test Mode

| Operating mode | Detail description | | | |
|--|--|--|--|--|
| PC mode | Keep the EUT in Downloading mode(Worst case) | | | |
| Recording mode | Keep the EUT in Charging+Recording mode | | | |
| GPS mode | Keep the EUT in GPS receiver mode | | | |
| The completive placed 0.9m above the ground plane of 2m abomber. Measurements in both herizontal and | | | | |

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

| Parameters | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz) | ±1.60 dB (k=2) |
| Radiated Emission (9kHz ~ 30MHz) | ±3.12 dB (k=2) |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2) |
| Radiated Emission (1GHz ~ 18GHz) | ±5.38 dB (k=2) |
| Radiated Emission (18GHz ~ 40GHz) | ±3.36 dB (k=2) |



5.5 Description of Support Units

| Manufacturer | Description | Model Serial Number | | FCC ID/DoC |
|--------------|-------------------|---------------------|--------------------|------------|
| Apple | Smart Phone | A1687 | A1687 N/A | |
| GS Japan | Lead-acid battery | 55D26R-MFZ | 26R-MFZ 8362810610 | |
| DELL | PC | OPTIPLEX745 | N/A | DoC |
| DELL | MONITOR | E178FPC | N/A | DoC |
| DELL | KEYBOARD | SK-8115 | N/A | DoC |
| DELL | MOUSE | MOC5UO | N/A | DoC |
| LENOVO | Laptop | SL510 | 2847A65 | DoC |

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

| Cable Type | Description | Length | From | То |
|-------------|-------------|--------|------|---------|
| Car adapter | Unshielded | 3.5m | EUT | Adapter |

5.8 Additions to, deviations, or exclusions from the method

```
No
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5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.10 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



5.11 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|-----------------|---------------|--------------------|-------------------------|-----------------------------|--|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | |
| 3m SAC | SAEMC | 9m*6m*6m | 966 | 07-22-2017 | 07-21-2020 | |
| Loop Antenna | SCHWARZBECK | FMZB1519B | 00044 | 03-18-2019 | 03-17-2020 | |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-18-2019 | 03-17-2020 | |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-18-2019 | 03-17-2020 | |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 1805 | 06-22-2017 | 06-21-2020 | |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170582 | 11-21-2018 | 11-20-2019 | |
| EMI Test Software | AUDIX | E3 | Version: 6.110919b | | b | |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-18-2019 | 03-17-2020 | |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-18-2019 | 03-17-2020 | |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-18-2019 | 03-17-2020 | |
| Spectrum analyzer | Rohde & Schwarz | FSP40 | 100363 | 11-21-2018 | 11-20-2019 | |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-18-2019 | 03-17-2020 | |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-18-2019 | 03-17-2020 | |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-18-2019 | 03-17-2020 | |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-18-2019 | 03-17-2020 | |

| Conducted Emission: | | | | | | |
|---------------------|-----------------|------------|--------------------|-------------------------|-----------------------------|--|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101189 | 03-18-2019 | 03-17-2020 | |
| Pulse Limiter | SCHWARZBECK | OSRAM 2306 | 9731 | 03-18-2019 | 03-17-2020 | |
| LISN | CHASE | MN2050D | 1447 | 03-18-2019 | 03-17-2020 | |
| LISN | Rohde & Schwarz | ESH3-Z5 | 8438621/010 | 07-21-2018 | 07-20-2021 | |
| Cable | HP | 10503A | N/A | 03-18-2019 | 03-17-2020 | |
| EMI Test Software | AUDIX | E3 | Version: 6.110919b | | | |



6 Test results and Measurement Data

6.1 Conducted Emission

| Test Requirement: | FCC Part 15 B Section 15.10 |)7 | |
|-----------------------|---|---|--|
| Test Frequency Range: | 150kHz to 30MHz | | |
| Class / Severity: | Class B | | |
| Receiver setup: | RBW=9kHz, VBW=30kHz | | |
| Limit: | | Limit | (dBµV) |
| | Frequency range (MHz) | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 0.5-30 | 60 | 50 |
| | * Decreases with the logarith | m of the frequency. | |
| Test setup: | Reference Plar 40cm 80cr 40cm 80cr Equipment E.U.T Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m | LISN Filter AC po EMI Receiver | |
| Test procedure | The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices are LISN that provides a 500h termination. (Please referst photographs). Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.4: | on network(L.I.S.N.). The bedance for the measure also connected to the m/50uH coupling impe s to the block diagram of checked for maximum and the maximum emiss d all of the interface ca | ne provide a ring equipment. a main power through a dance with 500hm of the test setup and a conducted ion, the relative bles must be changed |
| Test Instruments: | Refer to section 5.11 for deta | ails | |
| Test mode: | Refer to section 5.3 for detail | ls | |
| Test results: | Pass | | |



| Product name: | CAF | R DVR | | F | Product model: | | | LS01 | | |
|--|--|---|---|---|--|--|---|-----------------|----------|---------------|
| ſest by: | Yar | Yaro 150 kHz ~ 30 MHz | | | Test mode: Phase: | | | PC mode Line | | |
| Test frequency: | 150 | | | | | | | | | |
| Fest voltage: | AC | 120 V/60 H | łz | E | Environment: Temp: 22.5°C Hunit | | | | ni: 55% | |
| Lovel (dBuV) | | | | | | | | | | |
| 80 Level (dBuV) | | | | | | | | | | |
| 70 | | | | | | | | | | |
| 60 | | | _ | | | | | FCC P | PART15 B | QP |
| 50 2 2 | | | | | 1 | | | FCC P | ABT15 B | AV |
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| 10 0 | | | | with the second s | hu ed Dôrden | | | | | - |
| 0 | | 5 | 1 | 2 | 100 A (10) - | 5 | | 10 | 20 | 30 |
| 0 | | 5 | 1 | 2 Frequen | cy (MHz) | 5 | | 10 | 20 | 30 |
| 0 -10.15 .2 | Read | | 1 Cable | | cy (MHz) | 5 Over | | 10 | 20 | 30 |
| -10 .15 .2 | | LISN | | | | Over | Remark | 10 | 20 | 30 |
| -10 .15 .2 | Read q Level | LISN Factor | Cable | Frequen | Limit | Over | | 10 | 20 | 30 |
| 0 -10.15 .2 Free | Read q Level z dBuV 8 27.89 | LISN Factor <u>dB</u> -0.44 | Cable Loss dB 10.77 | Frequent Level dBuV 38.22 | Limit Line dBuV 55.56 | Over Limit | Remark Average | | 20 | 30 |
| 0 -10.15 .2 Free | Read q Level z dBuV 8 27.89 4 35.58 | LISN Factor dB -0.44 -0.43 | Cable Loss dB 10.77 10.77 | Frequen Level dBuV 38. 22 45. 92 | Limit Line dBuV 55.56 64.77 | Over Limit dB -17.34 -18.85 | Remark Average QP | | 20 | 30 |
| 0 -10 .15 .2 Fre MH 1 0.15 2 0.17 3 0.25 4 0.25 | Read q Level z dBuV 8 27.89 4 35.58 8 35.23 8 25.11 | LISN Factor dB -0.44 -0.43 -0.40 -0.40 -0.40 | Cable Loss dB 10.77 10.77 10.75 10.75 | Frequent Level dBuV 38.22 45.92 45.58 35.46 | Limit Line dBuV 55.56 64.77 61.51 51.51 | Over Limit dB -17.34 -18.85 -15.93 -16.05 | Remark Average QP QP Average | | 20 | 30 |
| 0 -10.15 .2 Fre MH 1 0.15 2 0.17 3 0.25 4 0.25 5 2.94 | Read q Level z dBuV 8 27.89 4 35.58 8 35.23 8 25.11 6 22.68 | LISN Factor dB -0.44 -0.43 -0.40 -0.40 -0.40 -0.44 | Cable Loss dB 10.77 10.77 10.75 10.75 10.92 | Frequent Level dBuV 38. 22 45. 92 45. 58 35. 46 33. 16 | Limit Line dBuV 55.56 64.77 61.51 51.51 46.00 | Over Limit -17.34 -18.85 -15.93 -16.05 -12.84 | Remark Average QP QP Average Average | | 20 | 30 |
| 0 -10 .15 .2 Fre MH 1 0.15 2 0.17 3 0.25 4 0.25 4 0.25 5 2.94 6 4.09 7 4.09 | Read Level z dBuV 8 27.89 4 35.58 8 35.23 8 25.11 6 22.68 2 32.41 2 25.11 | LISN Factor dB -0.44 -0.43 -0.40 -0.40 -0.40 -0.44 -0.46 -0.46 | Cable Loss dB 10.77 10.77 10.75 10.75 10.92 10.89 10.89 | Frequent Level dBuV 38. 22 45. 92 45. 58 35. 46 33. 16 42. 84 35. 54 | Limit Line dBuV 55.56 64.77 61.51 51.51 46.00 56.00 46.00 | Over Limit -17.34 -18.85 -15.93 -16.05 -12.84 -13.16 -10.46 | Remark Average QP Average Average QP Average Average | | 20 | 30 |
| 0 -10.15.2 Fre 1 0.15 2 0.17 3 0.25 4 0.25 5 2.94 6 4.09 7 4.09 8 4.74 | Read Level z dBuV 8 27.89 4 35.58 8 35.23 8 25.11 6 22.68 2 32.41 2 25.11 6 32.48 | LISN Factor dB -0.44 -0.43 -0.40 -0.40 -0.40 -0.44 -0.46 -0.46 -0.48 | Cable Loss dB 10.77 10.77 10.75 10.75 10.92 10.89 10.89 10.89 | Frequent Level dBuV 38. 22 45. 92 45. 58 35. 46 33. 16 42. 84 35. 54 42. 86 | Limit Line dBuV 55.56 64.77 61.51 51.51 46.00 56.00 46.00 56.00 | Over Limit -17.34 -18.85 -15.93 -16.05 -12.84 -13.16 -10.46 -13.14 | Remark QP QP Average Average QP Average QP | | 20 | 30 |
| 0 -10.15 .2 Free MH 1 0.15 2 0.17 3 0.25 4 0.25 5 2.94 6 4.09 7 4.09 8 4.74 9 10.01 | Read Level z dBuV 8 27.89 4 35.58 8 35.23 8 25.11 6 22.68 2 32.41 2 25.11 6 32.48 9 33.86 | LISN Factor dB -0.44 -0.43 -0.40 -0.40 -0.40 -0.44 -0.46 -0.46 -0.48 -0.61 | Cable Loss dB 10.77 10.77 10.75 10.75 10.92 10.89 10.89 10.89 10.86 10.94 | Frequent Level dBuV 38. 22 45. 92 45. 58 35. 46 33. 16 42. 84 35. 54 42. 86 44. 19 | Limit Line dBuV 55.56 64.77 61.51 51.51 46.00 56.00 46.00 56.00 60.00 | Over Limit -17.34 -18.85 -15.93 -16.05 -12.84 -13.16 -10.46 -13.14 -15.81 | Remark QP QP Average QP Average QP Average QP QP | | 20 | 30 |
| 0 -10.15 .2 Free MH 1 0.15 2 0.17 3 0.25 4 0.25 5 2.94 6 4.09 7 4.09 8 4.74 | Read Level z dBuV 8 27.89 4 35.58 8 35.23 8 25.11 6 22.68 2 32.41 2 25.11 6 32.48 9 33.86 9 39.83 1 29.94 | LISN Factor dB -0.44 -0.43 -0.40 -0.40 -0.40 -0.44 -0.46 -0.46 -0.46 -0.48 -0.61 -0.80 -0.82 | Cable Loss dB 10.77 10.77 10.75 10.75 10.92 10.89 10.89 10.89 | Frequent Level dBuV 38. 22 45. 92 45. 58 35. 46 33. 16 42. 84 35. 54 42. 86 | Limit Line dBuV 55.56 64.77 61.51 51.51 46.00 56.00 46.00 56.00 60.00 | Over Limit -17.34 -18.85 -15.93 -16.05 -12.84 -13.16 -10.46 -13.14 -15.81 -10.06 -9.97 | Remark QP QP Average QP Average QP Average QP QP | | 20 | 30 |

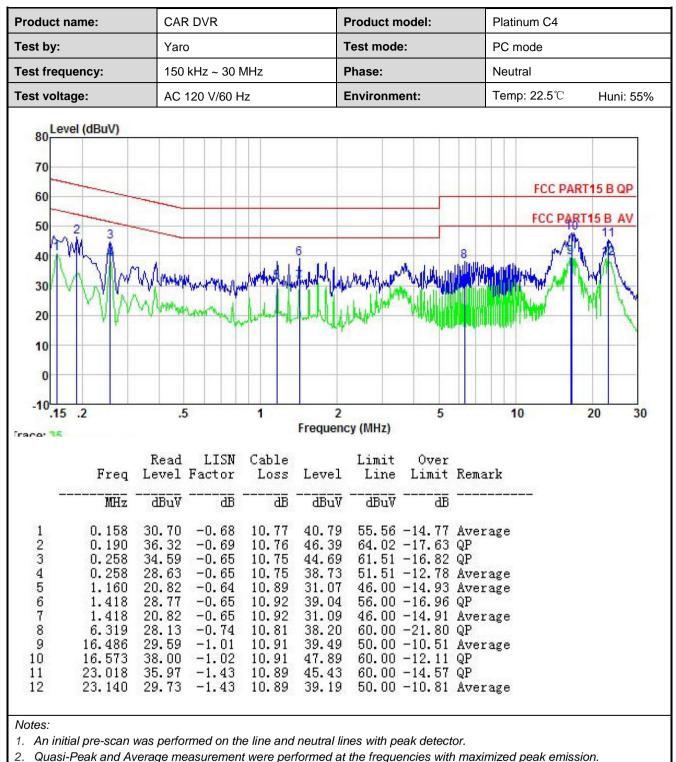
Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

Final Level =Receiver Read level + LISN Factor + Cable Loss. 3.





3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

| Test Requirement: | FCC Part 15 B S | ection 15.1 | 09 | | | | | |
|-----------------------|---------------------------------|---|------------------|----------------------------|--|----------------------|--|--|
| Test Frequency Range: | 30MHz to 6000M | IHz | | | | | | |
| Test site: | Measurement Dis | stance: 3m | (Sen | ni-Anechoic | Chamber) | | | |
| Receiver setup: | Frequency | Detect | or | RBW | VBW | Remark | | |
| | 30MHz-1GHz | Quasi-pe | eak | 120kHz | 300kHz | Quasi-peak Value | | |
| | Above 1GHz | Peak | | 1MHz | 3MHz | Peak Value | | |
| | | RMS | | 1MHz | 3MHz | Average Value | | |
| Limit: | Frequenc | | Lin | nit (dBuV/m | @3m) | Remark | | |
| | 30MHz-88N | | | 40.0 | | Quasi-peak Value | | |
| | 88MHz-216 | | 43.5 | | | Quasi-peak Value | | |
| | 216MHz-960MHz | | | 46.0 | | Quasi-peak Value | | |
| | 960MHz-10 | έHZ | | 54.0 | | Quasi-peak Value | | |
| | Above 1G | Hz | | 54.0 | | Average Value | | |
| Test setup: | | | | 74.0 | | Peak Value | | |
| | Below 1GHz | 4m - • • • • • • • • • • • • • • • • • • • | | | Antenna Tower Search Antenna Test zeiver | | | |
| | | W V | | Horn Antenna | Antenna Towe | | | |
| Test Procedure: | | • | | • | - | 8 meters above the | | |
| | degrees to det | | | | | e was rotated 360 | | |
| | - | | • | | - | e-receiving antenna, | | |
| | which was mo | | | • | | - | | |
| | 3. The antenna h ground to dete | eight is va ermine the vertical po | ried fi maxir | rom one met num value o | ter to four r f the field s | meters above the | | |



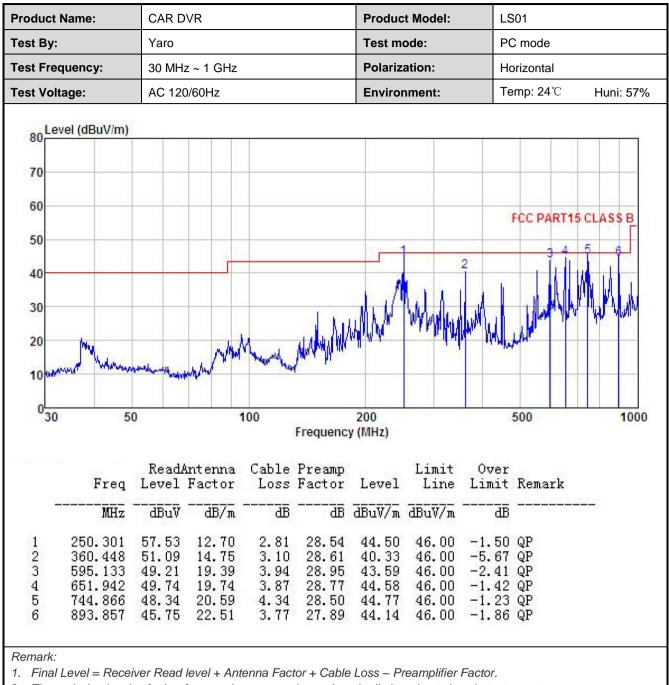
| | For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
|-------------------|--|
| | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |
| Test Instruments: | Refer to section 5.11 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | All of the observed value above 6GHz ware the niose floor , which were no recorded |



Measurement Data:

| oduct Nam | e: | CAR | DVR | | | Pro | oduct Mo | del: | LS01 | | |
|--|---|--|--|---|--|--|---|---|--|---|--|
| st By: | | Yaro | | | | Те | st mode: | | PC mode | | |
| st Frequen | су: | 30 M | Hz ~ 1 GH | łz | | Ро | larization | : | Vertical | | |
| st Voltage: | | AC 120/60Hz | | | | En | vironmen | nt: | Temp: 24°C Huni: 579 | | |
| 80 Level (| BuV/m |) | | | | | | | | | |
| 70 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 60 | | | | | | | | | FCC PART | 15 CLASS B | |
| 50 | - | | | | | | 2 | | 4 | | |
| 40 | | | | | | | 3 | | | | |
| 10 | | | | | | | | 13 | | the second se | |
| | | | | | 1 | 1.1 | . No of | 1 1.4 | | Beech W | |
| 30 | _ | | | | 1 | | MALAI. | All all a | W | MANAM | |
| 30 | | | 1.1 | Mund | Wind | | M | Andra | Whenthe | Maria | |
| 20 | Vilia | ul maker | admit | Mund | . June 1 | A Hadden | M | Multu | Welander | Markalahu | |
| - | Vinn | ul makes | admit | hund | all wood | Maha | 1 ⁴⁴ 144/1 | Andra | Welander | Markalahu | |
| 20 | Min | 50 | when | 100 | all wind | 200 | | Mult | 500 | 1000 | |
| 20 10 | Vinn | 50 | admit | 100 | Frequ | 200 lency (MH | z) | Mult | 500 | 1000 | |
| 20 10 | | ReadA | ntenna | Cable | Preamp | iency (MH | Limit | Over | | 1000 | |
| 20 10 | Freq | ReadA Level | Factor | Cable Loss | Preamp Factor | iency (MH Level | Limit Line | Limit | | 1000 | |
| 20 10 | | ReadA | ntenna Factor dB/m | Cable | Preamp Factor | iency (MH | Limit Line | | | 1000 | |
| | Freq MHz 3.619 | ReadA Level dBuV 50.82 | Factor | Cable Loss dB 2.33 | Preamp Factor dB 29.31 | Level dBuV/m 33.75 | Limit Line dBuV/m 43.50 | Limit dB 9.75 | Remark | 1000 | |
| 20 10 0 30 | Freq MHz 3.619 9.987 0.301 | ReadA Level dBuV 50.82 58.07 53.59 | Factor dB/m 9.91 12.30 12.70 | Cable Loss dB 2.33 2.82 2.81 | Preamp Factor dB 29.31 28.59 28.54 | Level dBuV/m 33.75 44.60 40.56 | Limit Line dBuV/m 43.50 46.00 46.00 | Limit | Remark QP QP QP | 1000 | |
| 20 10 0 30 1 1 1 1 1 2 2 3 2 5 4 4 4 4 4 4 4 4 4 4 4 4 4 | Freq MHz 3.619 9.987 0.301 5.414 | ReadA Level dBuV 50.82 58.07 53.59 53.45 | Factor <u>dB/m</u> 9.91 12.30 12.70 16.41 | Cable Loss dB 2.33 2.82 2.81 3.19 | Preamp Factor 29.31 28.59 28.54 28.86 | Level dBuV/m 33.75 44.60 40.56 44.19 | Limit Line dBuV/m 43.50 46.00 46.00 46.00 | Limit -9.75 -1.40 -5.44 -1.81 | Remark QP QP QP QP | 1000 | |
| 20 10 0 30 1 1 1 1 1 2 2 3 2 5 4 4 4 4 5 6 5 1 1 1 1 3 2 5 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 | Freq MHz 3.619 9.987 0.301 | ReadA Level dBuV 50.82 58.07 53.59 | Factor dB/m 9.91 12.30 12.70 | Cable Loss dB 2.33 2.82 2.81 | Preamp Factor 29.31 28.59 28.54 28.86 | Level dBuV/m 33.75 44.60 40.56 44.19 42.49 | Limit Line dBuV/m 43.50 46.00 46.00 | Limit | Remark QP QP QP QP QP | 1000 | |





2. The emission levels of other frequencies are very lower than the limit and not show in test report.



| oduct Name: | CAR I | DVR | | | Proc | duct Mod | el: | LS01 PC mode | | |
|---|--|---|--|--|--|---|-------------------|--|------------|---------|
| st By: | Yaro | | | | Test | t mode: | | | | |
| st Frequency: | 1 GHz | 1 GHz ~ 6 GHz | | | Pola | arization: | | Vertical | | |
| st Voltage: | AC 120/60Hz | | | | Env | Environment: | | | Temp: 24°C | |
| Lovel /dPu///r | 21 | | | | | | | | | |
| 80 Level (dBuV/n | | | | | | | | FCC | PART | 15 (PK) |
| 70 | | | | | | | | | | |
| 60 | | | | | | | | | _ | |
| 00 | | | | | | | | FCC | PART | 15 (AV) |
| 50 | | | | | | | | | | 5 |
| 40 | | | | | 1 | | 3 | MANAMANA | 1-may have | malham |
| | | | | and the second second | 1. n.n. is they | sweet as well | Compare a | | | 9 |
| and the second second | and the second | h sharehold | h shappeners | MAN MAN | AND A R. M. M. | Volta Sector Contraction | 4 | | | |
| 30 million and an | manual | hallow when | human | an and a second | 2 | | 1 | | | |
| 40 30 mg/max minutes | manual | 1 all generations | hiteration | , ALAN ANNA | 2 | | 4 | | | |
| 20 | and and a stand | - Manager and | hite at the second | _p da _b it, M. Autori | 2 | | 4 | | | |
| | un have a start | hally more and | h, Marken an | , Aa, M, M, Ash | 2 | | 4 | - | | |
| 20 | | | 200 | | | | | | 5000 | 6000 |
| 20 | | | | 0 | acy (MHz) | | | | | |
| 20 | 15 | | 200 | 0 Frequer | ncy (MHz) | Limit | Over | | | |
| 20 10 0 1000 1200 | 15 | 00 Intenna | 200 Cable | 0 Frequer | ncy (MHz) | Limit | Over | Remark | | |
| 20 10 0 1000 1200 | 15 Read/ 1 Level | 00 Intenna Factor | 200 Cable | 0 Frequer Preamp Factor | ncy (MHz) Level | Limit | Over Limit | | | |
| 20 10 0 1000 1200 Free MHz 1 2761.924 | 15 Read/ Level dBuV 1 46.48 | 00 Antenna Factor | 200 Cable Loss dB 5.09 | 0 Frequer Preamp Factor dB 41.70 | ncy (MHz) Level dBuV/m 38.02 | Limit Line dBuV/m 74.00 | Over Limit | Remark | | |
| 20 10 0 1000 1200 Free MHz 1 2761.924 | 15 Read/ Level dBuV 46.48 37.13 | 00 Antenna Factor | 200 Cable Loss dB 5.09 5.09 | 0 Frequer Preamp Factor dB 41.70 41.70 | ncy (MHz) Level dBuV/m 38.02 28.67 | Limit Line dBuV/m 74.00 54.00 | Over Limit | Remark Peak Average | | |
| 20 10 0 1000 1200 Free MHz 1 2761.924 | 15 Read/ Level dBuV 46.48 37.13 46.12 37.52 | 00 Antenna Factor | 200 Cable Loss dB 5.09 | 0 Frequer Factor dB 41.70 41.70 41.61 | ncy (MHz) Level dBuV/m 38.02 | Limit Line dBuV/m 74.00 54.00 74.00 54.00 | Over Limit | Remark Peak Average Peak Average | | |

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.





