



RADIO TEST REPORT

Test Report No. 14423514S-B

| Customer | Panasonic Automotive Systems Co., Ltd. |
|---------------------------|---|
| Description of EUT | AV Control Unit for In-Vehicle Infotainment |
| Model Number of EUT | AM2202 |
| FCC ID | ACJ932AM2202 |
| Test Regulation | FCC Part 15 Subpart C |
| Test Result | Complied (Refer to SECTION 3) |
| Issue Date | August 8, 2022 |
| | Wireless LAN (2.4 GHz band) parts |
| Remarks | Spot check: Maximum Peak Output Power, Average Output Power |

| Representative Test Engineer | Approved By |
|--|--|
| J.Murakami | S. Takano |
| Yosuke Murakami Engineer | Shinichi Takano Engineer |
| | ICC MRA ACCREDITED |
| The testing in which "Non-accreditation" is displayed is | CERTIFICATE 1266.03 outside the accreditation scopes in UL Japan, Inc. |
| There is no testing item of "Non-accreditation". | 1 1 / |
| | |

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 21.0

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- The information provided from the customer for this report is identified in Section 1.
- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

REVISION HISTORY

Original Test Report No.: 14423514S-B

| Revision | Test Report No. | Date | Page Revised Contents |
|------------|-----------------|----------------|-----------------------|
| - | 14423514S-B | August 8, 2022 | - |
| (Original) | | | |

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Reference: Abbreviations (Including words undescribed in this report)

| A2LA | The American Association for Laboratory Accreditation | ICES | Interference-Causing Equipment Standard | |
|----------------|---|---------|--|--|
| AC | Alternating Current | IEC | International Electrotechnical Commission | |
| AFH | Adaptive Frequency Hopping | IEEE | Institute of Electrical and Electronics | |
| AM | Amplitude Modulation | IF | Engineers Intermediate Frequency | |
| | 1 | | International Laboratory Accreditation | |
| Amp, AMP | Amplifier | ILAC | Conference | |
| ANSI | American National Standards Institute | ISED | Innovation, Science and Economic Development Canada | |
| Ant, ANT | Antenna | ISO | International Organization for Standardization | |
| AP | Access Point | JAB | Japan Accreditation Board | |
| ASK | Amplitude Shift Keying | LAN | Local Area Network | |
| Atten., ATT | Attenuator | LIMS | Laboratory Information Management System | |
| AV | Average | MCS | Modulation and Coding Scheme | |
| BPSK | Binary Phase-Shift Keying | MRA | Mutual Recognition Arrangement | |
| BR | Bluetooth Basic Rate | N/A | Not Applicable | |
| BT | Bluetooth | NIST | National Institute of Standards and Technology | |
| BT LE | Bluetooth Low Energy | NS | No signal detect. | |
| BW | BandWidth | NSA | Normalized Site Attenuation | |
| Cal Int | Calibration Interval | NVLAP | National Voluntary Laboratory Accreditation Program | |
| CCK | Complementary Code Keying | OBW | Occupied Band Width | |
| Ch., CH | Channel | OFDM | Orthogonal Frequency Division Multiplexing | |
| CISPR | Comite International Special des Perturbations Radioelectriques | P/M | Power meter | |
| CW | Continuous Wave | PCB | Printed Circuit Board | |
| DBPSK | Differential BPSK | PER | Packet Error Rate | |
| DC | Direct Current | PHY | Physical Layer | |
| D-factor | Distance factor | PK | Peak | |
| DFS | Dynamic Frequency Selection | PN | Pseudo random Noise | |
| DQPSK | Differential QPSK | PRBS | Pseudo-Random Bit Sequence | |
| DSSS | Direct Sequence Spread Spectrum | PSD | Power Spectral Density | |
| EDR | Enhanced Data Rate | QAM | Quadrature Amplitude Modulation | |
| EIRP, e.i.r.p. | Equivalent Isotropically Radiated Power | QP | Quasi-Peak | |
| EMC | ElectroMagnetic Compatibility | QPSK | Quadri-Phase Shift Keying | |
| EMI | ElectroMagnetic Interference | RBW | Resolution Band Width | |
| EN | European Norm | RDS | Radio Data System | |
| ERP, e.r.p. | Effective Radiated Power | RE | Radio Equipment | |
| EU | European Union | RF | Radio Frequency | |
| EUT | Equipment Under Test | RMS | Root Mean Square | |
| Fac. | Factor | RSS | Radio Standards Specifications | |
| FCC | Federal Communications Commission | Rx | Receiving | |
| FHSS | Frequency Hopping Spread Spectrum | SA, S/A | Spectrum Analyzer | |
| FM | Frequency Modulation | SG | Signal Generator | |
| Freq. | Frequency | SVSWR | Site-Voltage Standing Wave Ratio | |
| FSK | Frequency Shift Keying | TR | Test Receiver | |
| GFSK | Gaussian Frequency-Shift Keying | Tx | Transmitting | |
| GNSS | Global Navigation Satellite System | VBW | Video BandWidth | |
| GPS | Global Positioning System | Vert. | Vertical | |
| Hori. | Horizontal | WLAN | Wireless LAN | |
| | | | i . | |

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SECTION 1: Customer Information

| Company Name | Panasonic Automotive Systems Co., Ltd.*1) |
|------------------|---|
| Address | 4261, Ikonobe-cho, Tsuzuki-ku, Yokohama-shi, Kanagawa-ken 224-8520, Japan |
| Telephone Number | +81-70-3179-1127 |
| Contact Person | Yoshinori Nagatani |

^{*1)} The Grantee name in the FCC application is "Panasonic Corporation of North America".

The information provided from the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

| Description | AV Control Unit for In-Vehicle Infotainment |
|---------------|---|
| Model Number | AM2202 |
| Serial Number | Refer to SECTION 4.2 |
| Condition | Engineering prototype |
| | (Not for Sale: This sample is equivalent to mass-produced items.) |
| Modification | No Modification by the test lab |
| Receipt Date | July 20, 2022 |
| Test Date | July 25, 2022 |

2.2 Product Description

General Specification

| Rating | DC 13.2 V |
|-----------------------|--------------------------|
| Operating temperature | -30 deg. C to +60 deg. C |

Radio Specification

Bluetooth (BR / EDR)

| Equipment Type | Transceiver |
|------------------------|--------------------------------|
| Frequency of Operation | 2402 MHz to 2480 MHz |
| Type of Modulation | FHSS (GFSK, π/4 DQPSK, 8 DPSK) |
| Antenna Type | Pattern antenna |
| Antenna Gain | 2 dBi |

WLAN (IEEE802.11b/11g/11n-20)

| | -7 |
|------------------------|----------------------|
| Equipment Type | Transceiver |
| Frequency of Operation | 2412 MHz to 2462 MHz |
| Type of Modulation | DSSS, OFDM |
| Antenna Type | Pattern antenna |
| Antenna Gain | 2 dBi |

^{*} The laboratory is exempted from liability of any test results affected from the above information in SECTION 2 and 4.

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SECTION 3: Test Specification, Procedures & Results

3.1 Test Specification

| Test Specification | FCC Part 15 Subpart C FCC Part 15 final revised on April 1, 2022 and effective May 2, 2022 |
|--------------------|---|
| Title | FCC 47 CFR Part 15 Radio Frequency Device Subpart C Intentional Radiators Section 15.207 Conducted limits Section 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz |

3.2 Procedures and Results

| Item | Test Procedure | Specification | Worst Margin | Results | Remarks |
|---|----------------------|----------------------|--------------|----------|-----------|
| Maximum Peak | FCC: KDB 558074 D01 | FCC: Section | See data. | Complied | Conducted |
| Output Power | 15.247 | 15.247(b)(3) | | a) 1 | |
| | Meas Guidance v05r02 | | | , | |
| | ISED: RSS-Gen 6.12 | ISED: RSS-247 5.4(d) | | | |
| Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593. | | | | | |
| * In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred. | | | | | |
| a) Refer to APPENDIX 1 (data of Maximum Peak Output Power) | | | | | |
| Symbols: | | | | | |
| Complied The data of this test item has enough margin, more than the measurement uncertainty. | | | | | |
| Complied# The data of this test item meets the limits unless the measurement uncertainty is taken into consideration. | | | | | |

FCC Part 15.31 (e)

The equipment provides the wireless transmitter with stable power supply.

Instead of a new battery, DC power supply was used for the test. That does not affect the test result, therefore the EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

The equipment and its antenna comply with the requirement since the antenna is built in the equipment and it cannot be replaced by end users. Therefore, the equipment complies with the antenna requirement of Section 15.203.

3.3 Addition to Standard

No addition, exclusion nor deviation has been made from the standard.

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3.4 Uncertainty

There is no applicable rule of uncertainty in this applied standard. Therefore, the results are derived depending on whether or not laboratory uncertainty is applied.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor k = 2.

| Antenna terminal test | Uncertainty (+/-) |
|---|-------------------|
| Power Measurement above 1 GHz (Average Detector) SPM-13 | 1.3 dB |
| Power Measurement above 1 GHz (Peak Detector) SPM-13 | 1.3 dB |
| Voltage | 0.97 % |

3.5 Test Location

UL Japan, Inc. Shonan EMC Lab.

1-22-3, Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 Japan

Telephone: +81 463 50 6400 A2LA Certificate Number: 1266.03

(FCC test firm registration number: 626366, ISED lab company number: 2973D / CAB identifier: JP0001)

| Test site | IC Registration Number | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | M aximum measurement distance |
|----------------------------|---------------------------|-------------------------------|--|-------------------------------------|
| No.1 Semi-anechoic chamber | 2973D-1 | 20.6 x 11.3 x 7.65 | 20.6 x 11.3 | 10 m |
| No.2 Semi-anechoic chamber | 2973D-2 | 20.6 x 11.3 x 7.65 | 20.6 x 11.3 | 10 m |
| No.3 Semi-anechoic chamber | 2973D-3 | 12.7 x 7.7 x 5.35 | 12.7 x 7.7 | 5 m |
| No.4 Semi-anechoic chamber | - | 8.1 x 5.1 x 3.55 | 8.1 x 5.1 | - |
| No.1 Shielded room | - | 6.8 x 4.1 x 2.7 | 6.8 x 4.1 | - |
| No.2 Shielded room | - | 6.8 x 4.1 x 2.7 | 6.8 x 4.1 | - |
| No.3 Shielded room | - | 6.3 x 4.7 x 2.7 | 6.3 x 4.7 | - |
| No.4 Shielded room | - | 4.4 x 4.7 x 2.7 | 4.4 x 4.7 | - |
| No.5 Shielded room | - | 7.8 x 6.4 x 2.7 | 7.8 x 6.4 | - |
| No.6 Shielded room | - | 7.8 x 6.4 x 2.7 | 7.8 x 6.4 | - |
| No.8 Shielded room | - | 3.45 x 5.5 x 2.4 | 3.45 x 5.5 | - |
| No.1 Measurement room | - | 2.55 x 4.1 x 2.5 | - | - |

3.6 Test Data, Test Instruments, and Test Set Up

Refer to APPENDIX.

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SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

Test operating mode was determined as follows according to "Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals - " of TCB Council Workshop October 2009.

| Mode | Remarks* |
|---------------------------------|----------------------|
| IEEE 802.11b (11b) | 2 Mbps, PN9 |
| IEEE 802.11g (11g) | 48 Mbps, PN9 |
| IEEE 802.11n 20 MHz BW (11n-20) | MCS 4 (Long GI), PN9 |

^{*}The worst condition was determined based on the test result of Maximum Peak Output Power (Low Channel) (Refer to 14337817S-A report)

*Power of the EUT was set by the software as follows;

Power Setting: Fixed Software: SI ver. 07851

(Date: 2022.05 09, Storage location: EUT memory)

*This setting of software is the worst case.

Any conditions under the normal use do not exceed the condition of setting.

In addition, end users cannot change the settings of the output power of the product.

*The Details Of Operating Mode(s)

| Test Item | Operating Mode | Tested Frequency |
|---------------------------|----------------|------------------|
| Maximum Peak Output Power | Tx 11b | 2412 MHz |
| | Tx 11g | 2437 MHz |
| | Tx 11n-20 | 2462 MHz |

4.2 Configuration and Peripherals

This page has been submitted for separate exhibit (refer to APPENDIX 4).

SECTION 5: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port.

| Test | Span | RBW | VBW | Sweep time | Detector | Trace | Instrument Used |
|--------------------|------|-----|-----|---------------|-------------|-------|----------------------|
| Maximum Peak | - | - | - | Auto | Peak/ | - | Power Meter |
| Output Power | | | | | Average *1) | | (Sensor: 160 MHz BW) |
| *1) Reference data | | | | | | | |

The test results and limit are rounded off to two decimals place, so some differences might be observed. The equipment and cables were not used for factor 0 dB of the data sheets.

Test Data : APPENDIX

Test Result : Pass

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APPENDIX 1: Test Data

Maximum Peak Output Power

Test place Shonan EMC Lab. No.1 Measurement Room

Date July 25, 2022
Temperature / Humidity Engineer July 25, 2022
24 deg. C / 42 % RH
Yosuke Murakami

Mode Tx

11b

2 Mbps (worst)

| | | | | | Cor | nducted Po | wer | | | | e.i.r.p. fo | r RSS-247 | | | | |
|-------|---------|-------|--------|--------|-------|--------------|------|---------|-------|--------|-------------|-----------|------|-------|-----|--------|
| Freq. | Reading | Cable | Atten. | Result | | Result Limit | | t Limit | | Margin | Antenna | Result | | Li | mit | Margin |
| | | Loss | Loss | | | | | | Gain | | | | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [dBm] | [mW] | [dB] | [dBi] | [dBm] | [mW] | [dBm] | [mW] | [dB] | | |
| 2412 | 3.15 | 1.75 | 9.87 | 14.77 | 29.99 | 30.00 | 1000 | 15.23 | 2.00 | 16.77 | 47.53 | 36.02 | 4000 | 19.25 | | |
| 2437 | 3.21 | 1.76 | 9.87 | 14.84 | 30.48 | 30.00 | 1000 | 15.16 | 2.00 | 16.84 | 48.31 | 36.02 | 4000 | 19.18 | | |
| 2462 | 3.24 | 1.76 | 9.87 | 14.87 | 30.69 | 30.00 | 1000 | 15.13 | 2.00 | 16.87 | 48.64 | 36.02 | 4000 | 19.15 | | |

11g

48 Mbps (worst)

| | | | | | Cor | nducted Po | wer | | | | e.i.r.p. for | r RSS-247 | | |
|-------|---------|-------|--------|-------|--------|------------|------|--------|---------|-------|--------------|-----------|------|--------|
| Freq. | Reading | Cable | Atten. | Res | sult | Li | nit | Margin | Antenna | Res | sult | Li | mit | Margin |
| | | Loss | Loss | | | | | | Gain | | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [dBm] | [mW] | [dB] | [dBi] | [dBm] | [mW] | [dBm] | [mW] | [dB] |
| 2412 | 9.35 | 1.75 | 9.87 | 20.97 | 125.03 | 30.00 | 1000 | 9.03 | 2.00 | 22.97 | 198.15 | 36.02 | 4000 | 13.05 |
| 2437 | 9.23 | 1.76 | 9.87 | 20.86 | 121.90 | 30.00 | 1000 | 9.14 | 2.00 | 22.86 | 193.20 | 36.02 | 4000 | 13.16 |
| 2462 | 9.30 | 1.76 | 9.87 | 20.93 | 123.88 | 30.00 | 1000 | 9.07 | 2.00 | 22.93 | 196.34 | 36.02 | 4000 | 13.09 |

11n-20 (SISO)

MCS 4 (Long G.I.) (worst)

| | | | | | Coı | nducted Po | wer | | | | e.i.r.p. for | r RSS-247 | | |
|-------|---------|-------|--------|--------------|--------|------------|------|--------|---------|-------|--------------|-----------|------|--------|
| Freq. | Reading | Cable | Atten. | Result Limit | | | mit | Margin | Antenna | Res | sult | Li | mit | Margin |
| | | Loss | Loss | | | | | | Gain | | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [dBm] | [mW] | [dB] | [dBi] | [dBm] | [mW] | [dBm] | [mW] | [dB] |
| 2412 | 9.06 | 1.75 | 9.87 | 20.68 | 116.95 | 30.00 | 1000 | 9.32 | 2.00 | 22.68 | 185.35 | 36.02 | 4000 | 13.34 |
| 2437 | 9.00 | 1.76 | 9.87 | 20.63 | 115.61 | 30.00 | 1000 | 9.37 | 2.00 | 22.63 | 183.23 | 36.02 | 4000 | 13.39 |
| 2462 | 8.92 | 1.76 | 9.87 | 20.55 | 113.50 | 30.00 | 1000 | 9.45 | 2.00 | 22.55 | 179.89 | 36.02 | 4000 | 13.47 |

Sample Calculation

 $Result = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Attenuator\ Loss$

e.i.r.p. Result = Conducted Power Result + Antenna Gain

All comparison were carried out on same frequency and measurement factors.

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Average Output Power (Reference data for RF Exposure)

Test place Shonan EMC Lab. No.1 Measurement Room

Date July 25, 2022
Temperature / Humidity 24 deg. C / 42 % RH
Engineer Yosuke Murakami

Mode Tx

<u>11b</u>

5.5 Mbps (worst)

(*1)

| Freq. | Reading | Cable | Atten. | Result | | Duty | Re | sult |
|-------|---------|-------|--------|----------------|-------|--------|------------|-------------|
| | | Loss | Loss | (Time average) | | factor | (Burst pow | er average) |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [dB] | [dBm] | [mW] |
| 2412 | 0.45 | 1.75 | 9.87 | 12.07 | 16.11 | 0.00 | 12.07 | 16.11 |
| 2437 | 0.49 | 1.76 | 9.87 | 12.12 | 16.29 | 0.00 | 12.12 | 16.29 |
| 2462 | 0.48 | 1.76 | 9.87 | 12.11 | 16.26 | 0.00 | 12.11 | 16.26 |

<u>11g</u>

54 Mbps (worst)

(*1)

| Freq. | Reading | Cable | Atten. | Result | | Duty | Res | sult |
|-------|---------|-------|--------|----------------|-------|--------|------------|-------------|
| | | Loss | Loss | (Time average) | | factor | (Burst pow | er average) |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [dB] | [dBm] | [mW] |
| 2412 | -1.39 | 1.75 | 9.87 | 10.23 | 10.54 | 0.00 | 10.23 | 10.54 |
| 2437 | -1.43 | 1.76 | 9.87 | 10.20 | 10.47 | 0.00 | 10.20 | 10.47 |
| 2462 | -1.41 | 1.76 | 9.87 | 10.22 | 10.52 | 0.00 | 10.22 | 10.52 |

11n-20 (SISO)

MCS 7 (Long G.I.) (worst)

(*1)

| Freq. | Reading | Cable | Atten. | Result | | Duty | Re | sult |
|-------|---------|-------|--------|----------------|------|--------|------------|-------------|
| | | Loss | Loss | (Time average) | | factor | (Burst pow | er average) |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [dB] | [dBm] | [mW] |
| 2412 | -2.43 | 1.75 | 9.87 | 9.19 | 8.30 | 0.00 | 9.19 | 8.30 |
| 2437 | -2.28 | 1.76 | 9.87 | 9.35 | 8.61 | 0.00 | 9.35 | 8.61 |
| 2462 | -2.47 | 1.76 | 9.87 | 9.16 | 8.24 | 0.00 | 9.16 | 8.24 |

Sample Calculation:

Result (Time average) = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss Result (Burst power average) = Result (Time average) + Duty factor

(*1) Power was measured with using the gate function of power meter.

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APPENDIX 2: Test Instruments

Test Equipment

| Test Item | Local ID | LIMS ID | Description | Manufacturer | Model | Serial | Last Calibration Date | Cal Int |
|-----------|--------------|---------|--------------------|--------------------------------------|--------------|------------|-----------------------------|------------|
| AT | KTS-08 | 145095 | Digital Tester | SANWA | PC500 | 7019224 | 2022/04/07 | 12 |
| AT | SAT10-16 | 160494 | Attenuator | Weinschel Corp. | 54A-10 | 83420 | 2021/12/07 | 12 |
| AT | SCC-G65 | 196942 | Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 803416/2 | 2022/03/01 | 12 |
| AT | SOS-28 | 191846 | Humidity Indicator | CUSTOM. Inc | CTH-201 | - | 2021/08/02 | 12 |
| AT | SPM-13 | 169910 | Power Meter | Keysight Technologies Inc | 8990B | MY51000448 | 2022/01/25 | 12 |
| AT | SPSS-06 | 169911 | Power sensor | Keysight Technologies Inc | N1923A | MY57270004 | 2022/01/25 | 12 |
| AT | SRENT- 09 | 150461 | Spectrum Analyzer | Keysight Technologies Inc | E4440A | MY46186392 | 2022/03/14 | 12 |
| AT | STM-G9 | 171616 | Terminator | Weinschel - API Technologies Corp | M1459A | 89025 | 2022/05/12 | 12 |

^{*}Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item: AT: Antenna Terminal Conducted