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: 11253018S-B-R1 : 1 of 120 : November 7, 2016

: YR7SKR3000P6

RADIO TEST REPORT

Test Report No.: 11253018S-B-R1

Applicant : KONICA MINOLTA, INC.

Type of Equipment : SKR 3000

Model No. : P-61

FCC ID : YR7SKR3000P6

Test regulation : FCC Part 15 Subpart E: 2016

Test Result : Complied

- 1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
- 2. The results in this report apply only to the sample tested.
- 3. This sample tested is in compliance with the above regulation.
- 4. The test results in this report are traceable to the national or international standards.
- 5. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.
- 6. This test report covers Radio technical requirements. It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)
- 7. This report is a revised version of 11253018S-B. 11253018S-B is replaced with this report.

Date of test:

Representative test engineer:

Hiroyuki Morikawa
Engineer
Consumer Technology Division

Approved by:

Toyokazu Imamura

Leader Consumer Technology Division





The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.

There is no testing item of "Non-accreditation".

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REVISION HISTORY

Original Test Report No.: 11253018S-B

| Revision | Test report No. | Date | Page revised | Contents |
|-----------------|-----------------|---------------------|-----------------|-----------------------------------|
| - (Original) | 11253018S-B | August 30, 2016 | - | - |
| 1 | 11253018S-B-R1 | November 7, 2016 | 4 | Correction of radio specification |
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SECTION 1: Customer information

Company Name : KONICA MINOLTA, INC.

Address : 1, Sakura-machi, Hino-shi, Tokyo, Japan 191-8511

Telephone Number : +81-42-589-8429 Facsimile Number : +81-42-589-8053 Contact Person : Masayoshi Inoue

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : SKR 3000 Model No. : P-61

Serial No. : Refer to Section 4, Clause 4.2

Rating : DC 15 V
Receipt Date of Sample : June 17, 2016
Country of Mass-production : Japan

Condition of EUT : Engineering prototype

(Not for Sale: This sample is equivalent to mass-produced items.)

Modification of EUT : No Modification by the test lab

2.2 Product Description

Model: P-61 (referred to as the EUT in this report) is a SKR 3000.

General Specification

Clock frequency(ies) in the system : 532 MHz (Maximum)

Radio Specification

Radio Type : Transceiver

WLAN

| Type of radio | IEEE802.11b | IEEE802.11g | IEEE802.11a | IEEE802.11n (20 M band) | IEEE802.11n (40 M band) |
|---------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| Frequency | 2412 MHz-2462 MHz | 2412 MHz-2462 MHz | 5180 MHz-5240 MHz | 2412 MHz-2462 MHz | 5190 MHz-5230 MHz |
| of operation | | | 5260 MHz-5320 MHz | 5180 MHz-5240 MHz | 5270 MHz-5310 MHz |
| | | | 5500 MHz-5700 MHz | 5260 MHz-5320 MHz | 5510 MHz-5670 MHz |
| | | | 5745 MHz-5825 MHz | 5500 MHz-5700 MHz | 5755 MHz-5795 MHz |
| | | | | 5745 MHz-5825 MHz | |
| Type of | DSSS | OFDM-CCK | OFDM | | |
| modulation | (CCK, DQPSK, | (64QAM, 16QAM, | (64QAM, 16QAM, QPSK | , BPSK) | |
| | DBPSK) | QPSK, BPSK) | | | |
| Channel | 5 MHz | | 20 MHz | 2.4 GHz band | 40 MHz |
| spacing | | | | 5 MHz | |
| | | | | 5 GHz band | |
| | | | | 20 MHz | |
| Antenna type | [Main Antenna (chain 0) |)/Sub Antenna (chain 1)] | | | |
| | PIFA (Planar Inverted F | Antenna) | | | |
| Antenna | Main Antenna (chain 0) | -1.95 dBi (2.4 GHz Ban | d), -0.98 dBi (5 GHz Band) | | |
| Gain | Sub Antenna (chain 1) | -2.21 dBi (2.4 GHz Band | d), -1.54 dBi (5 GHz Band) | | |
| Antenna | [Main Antenna (chain 0) |)/Sub Antenna (chain 1)] | | | |
| Connector | Connector; PCB side: U.FI | L, Antenna side: soldered | | | |
| type | | | | | |

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SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part 15 Subpart E

FCC part 15 final revised on April 6, 2016.

Title : FCC 47CFR Part15 Radio Frequency Device Subpart E

Unlicensed National Information Infrastructure Devices

Section 15.407 General technical requirements

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3.2 Procedures and results

| Item | Test Procedure | Specification | Worst margin | Results | Remarks |
|---|--|--|--|----------|-------------------------|
| Conducted Emission | FCC: ANSI C63.10-2013 | FCC: 15.407 (b) (6) / 15.207 | N/A | N/A *1) | _ |
| | IC: RSS-Gen 8.8 | IC: RSS-Gen 8.8 | | , | |
| 26 dB Emission | FCC: KDB Publication Number 789033 | FCC: 15.407 (a) (1) (2) (3) | N/A | | Conducted |
| Bandwidth | IC: - | IC: - | | | |
| | FCC: KDB Publication Number 789033 | FCC: 15.407 (a) (1) (2) (3) | | | |
| Maximum Conducted Output Power | IC: - | IC: RSS-247 6.2.1 (1) 6.2.2 (1) 6.2.3 (1) 6.2.4 (1) | See data | Complied | Conducted |
| | FCC: KDB Publication Number 789033 | FCC: 15.407 (a) (1) (2) (3) | | | |
| Maximum Power Spectral Density | IC: - | IC: RSS-247 6.2.1 (1) 6.2.2 (1) 6.2.3 (1) 6.2.4 (1) | | Complied | Conducted |
| | FCC: ANSI C63.10-2013 KDB Publication Number 789033 | FCC: 15.407 (b), 15.205 and 15.209 | 4.0 dB | | Conducted (< 30 MHz) |
| Spurious Emission Restricted Band Edge | IC: - | IC: RSS-247 6.2.1 (2) 6.2.2 (2) 6.2.3 (2) 6.2.4 (2) | 5350.000 MHz, AV, Vert. Tx 11n-40 5310 MHz | Complied | Radiated (> 30 MHz) *2) |
| 6 dB Emission | FCC: ANSI C63.10-2013 | FCC: 15.407 (e) | G 1.4 | G 11 1 | 0 1 1 |
| Bandwidth | IC: - | IC: RSS-247 6.2.4 (1) | See data | Complied | Conducted |

Note: UL Japan, Inc.'s EMI Work Procedures No. 13-EM-W0420 and 13-EM-W0422.

FCC Part 15.31 (e)

This EUT provides stable voltage (DC3.3 V/1.8 V) constantly to RF part regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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^{*} For DFS tests, please see the test report number 11253018S-C issued by UL Japan, Inc.

^{*1)} The test is not applicable since the EUT has no AC mains. Wireless LAN does not operate during charging.

^{*2)} Radiated test was selected over 30 MHz based on section FCC 15.407 (b) and KDB 789033 D02 G.3.b).

^{*} In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred.

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3.3 Addition to standard

| Item | Test Procedure | Specification | Worst margin | Results | Remarks |
|---------------|----------------|---------------|--------------|---------|-----------|
| 99 % Occupied | RSS-Gen 6.6 | IC: - | N/A | N/A | Conducted |
| Band Width | RSS-Gell 0.0 | 10 | IN/A | IN/A | Conducted |

Other than above, no addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

EMI

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

| Item | Frequency range | Uncertainty (+/-) | | | |
|------------------------------------|-----------------|-------------------|----------------|----------------|----------------|
| | | No. 1 SAC / SR | No. 2 SAC / SR | No. 3 SAC / SR | No. 4 SAC / SR |
| Conducted emission (AC Mains) LISN | 150 kHz-30 MHz | 2.1 dB | 2.1 dB | 2.6 dB | 2.2 dB |
| Radiated emission | 9 kHz-30 MHz | 2.7 dB | 2.7 dB | 3.1 dB | - |
| (M easurement distance: 3 m) | 30 MHz-300 MHz | 4.4 dB | 4.4 dB | 4.6 dB | - |
| | 300 MHz-1 GHz | 5.6 dB | 5.5 dB | 5.3 dB | - |
| | 1 GHz-13 GHz | 5.2 dB | 5.2 dB | 5.2 dB | - |
| Radiated emission | 13 GHz-18 GHz | 4.9 dB | 4.9 dB | 4.9 dB | - |
| (Measurement distance: 1 m) | 18 GHz-40 GHz | 4.9 dB | 4.9 dB | 4.9 dB | - |

SAC=Semi-Anechoic Chamber

SR= Shielded Room is applied besides radiated emission

| Antenna terminal test | Uncertainty (+/-) |
|---|-------------------|
| Power Measurement above 1 GHz (Average Detector)_SPM-06 | 0.76 dB |
| Power Measurement above 1 GHz (Peak Detector)_SPM-06 | 0.79 dB |
| Power Measurement above 1 GHz (Average Detector)_SPM-07 | 0.74 dB |
| Power Measurement above 1 GHz (Peak Detector)_SPM-07 | 1.08 dB |
| Spurious emission (Conducted) below 1GHz | 1.5 dB |
| Spurious emission (Conducted) 1 GHz-3 GHz | 1.7 dB |
| Spurious emission (Conducted) 3 GHz-18 GHz | 2.4 dB |
| Spurious emission (Conducted) 18 GHz-26.5 GHz | 2.5 dB |
| Spurious emission (Conducted) 26.5 GHz-40 GHz | 2.5 dB |
| Bandwidth M easurement | 0.66 % |
| Duty cycle and Time Measurement | 0.012 % |

Radiated emission test

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

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3.5 Test Location

UL Japan, Inc. Shonan EMC Lab.

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Telephone: +81 463 50 6400, Facsimile: +81 463 50 6401

JAB Accreditation No. RTL02610

| Test site | IC Registration Number | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Maximum 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 E.U.T. during testing

4.1 Operating Mode(s)

| Mode | Remarks* |
|--------------------------------------|-----------------------|
| IEEE 802.11a (11a) | 18 Mbps, PN9 |
| IEEE 802.11n MIMO 20 MHz BW (11n-20) | MCS 11 (Long GI), PN9 |
| IEEE 802.11n SISO 20 MHz BW (11n-20) | MCS 3 (Long GI), PN9 |
| IEEE 802.11n MIMO 40 MHz BW (11n-40) | MCS 10 (Long GI), PN9 |
| IEEE 802.11n SISO 40 MHz BW (11n-40) | MCS 3 (Long GI), PN9 |

^{*}Power of the EUT was set by the software as follows; Software: WLAN Auth Tool ver.1.3.0

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^{*}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.

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*The details of Operation mode(s)

| Test Item | Operating | Tested | | Tested F | requency | |
|--|------------------|----------|----------|----------|------------|-----------|
| | Mode | Antenna | Lower | Middle | Additional | Upper |
| | | *2) | Band | Band | Band | Band |
| 26 dB Emission Bandwidth | 11a Tx | Sub | 5180 MHz | 5260 MHz | 5500 MHz | 5745 MHz |
| 99 % Occupied Bandwidth | 11n-20 Tx (SISO) | Sub | 5220 MHz | 5300 MHz | 5580 MHz | 5785 MHz |
| | 11n-20 Tx (MIMO) | Main | 5240 MHz | 5320 MHz | 5700 MHz | 5825 MHz |
| | 11n-40 Tx (SISO) | Main | 5190 MHz | 5270 MHz | 5510 MHz | 5755 MHz |
| | 11n-40 Tx (MIMO) | Main | 5230 MHz | 5310 MHz | 5550 MHz | 5795 MHz |
| | | | | | 5670 MHz | |
| 20 dB Bandwidth | 11a Tx | Sub | 5240 MHz | - | - | - |
| | 11n-20 Tx (SISO) | Sub | | | | |
| | 11n-20 Tx (MIMO) | Main | | | | |
| | 11n-40 Tx (SISO) | Main | 5230 MHz | | | |
| | 11n-40 Tx (MIMO) | Main | | | | |
| 6 dB Bandwidth | 11a Tx | Sub | - | - | - | 5745 MHz |
| | 11n-20 Tx (SISO) | Sub | | | | 5785 MHz |
| | 11n-20 Tx (MIMO) | Main | | | | 5825 MHz |
| | 11n-40 Tx (SISO) | Main | - | - | - | 5755 MHz |
| | 11n-40 Tx (MIMO) | Main | | | | 5795 MHz |
| Maximum Conducted Output | 11a Tx | Sub | 5180 MHz | 5260 MHz | 5500 MHz | 5745 MHz |
| Power, | 11n-20 Tx (SISO) | Sub | 5220 MHz | 5300 MHz | 5580 MHz | 5785 MHz |
| Maximum Power Spectral Density | 11n-20 Tx (MIMO) | Main+Sub | 5240 MHz | 5320 MHz | 5700 MHz | 5825 MHz |
| | 11n-40 Tx (SISO) | Main | 5190 MHz | 5270 MHz | 5510 MHz | 5755 MHz |
| | 11n-40 Tx (MIMO) | Main+Sub | 5230 MHz | 5310 MHz | 5550 MHz | 5795 MHz |
| | | | | | 5670 MHz | |
| Radiated Spurious Emission (Below 1 GHz) *1) | 11n-20 Tx (MIMO) | Main+Sub | - | - | | 5745 MHz |
| Radiated Spurious Emission | 11a Tx | Sub | 5180 MHz | 5320 MHz | 5500 MHz | 5745 MHz |
| (Above 1 GHz) | | | 5240 MHz | | 5580 MHz | 5785 MHz |
| | | | | | 5700 MHz | 5825 MHz |
| | 11n-20 Tx (MIMO) | Main+Sub | 5180 MHz | 5240 MHz | 5500 MHz | 5745 MHz |
| | | | | 5320 MHz | 5580 MHz | 5785 MHz |
| | | | | | 5700 MHz | 5825 MHz |
| | 11n-40 Tx (MIMO) | Main+Sub | 5190 MHz | 5230 MHz | 5510 MHz | 5755 MHz |
| | | | | 5310 MHz | 5550 MHz | 5795 MHz |
| G 1 - 10 - F | 11 20 F (1 F) | 26: .0: | | | 5670 MHz | 5545 > 67 |
| Conducted Spurious Emission | 11n-20 Tx (MIMO) | Main+Sub | - | - | - | 5745 MHz |

^{*1)} The mode was tested as a representative, because it had the highest power at antenna terminal test.

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^{*2)} The test was performed with the antenna that had higher power as a representative.

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4.2 Configuration and peripherals

A: EUT

Description of EUT

| No. | Item | Model number | Serial number | Manufacturer | Remarks |
|-----|----------|--------------|--------------------------------|----------------|---------|
| A | SKR 3000 | P-61 | A8CE-S002 *1) A8CE-S003 *2) | KONICA MINOLTA | EUT |

^{*1)} Used for Antenna Terminal conducted test

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^{*} Test data was taken under worse case conditions.

^{*2)} Used for Radiated Emission test

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SECTION 5: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 0.5 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

< Above 1 GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane.

The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane.

The height of the measuring antenna varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

< Below 1 GHz >

The result also satisfied with the general limits specified in section 15.209 (a).

< Above 1 GHz >

Inside of restricted bands (Section 15.205):

Apply to limit in the Section 15.209 (a).

Outside of the restricted bands:

Apply to limit 68.2 dBuV/m, 3 m (-27 dBm e.i.r.p.*) in the Section 15.407 (b) (1) (2) (3).

Restricted band edge:

Apply to limit in the Section 15.209 (a).

Since this limit is severer than the limit of the inside of restricted bands.

*Electric field strength to e.i.r.p. conversion:

$$E = \frac{1000000\sqrt{30P}}{3}$$
 (uV/m) : P is the e.i.r.p. (Watts)

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Test Antennas are used as below;

| Frequency | 30 MHz to 300 MHz | 300 MHz to 1 GHz | Above 1 GHz |
|--------------|-------------------|------------------|-------------|
| Antenna Type | Biconical | Logperiodic | Horn |

| Frequency | Below 1 GHz | Above 1 GHz | | |
|-----------------|---------------|-----------------------------|-----------------------|--|
| Instrument used | Test Receiver | Spectrum Analyzer | | |
| Detector | QP | Peak | Average | |
| IF Bandwidth | BW: 120 kHz | RBW: 1 MHz | Detector: Power | |
| | | VBW: 3 MHz | Averaging (Linear | |
| | | | voltage) | |
| | | Trace: ≥ 100 traces | | |
| | | Duty factor was | | |
| | | | added to the results. | |
| Test Distance | 3 m | 3 m (below 1 GHz), | | |
| | | 3 m*2) (1 GHz – 13 GHz), | | |
| | | 1 m*3) (13 GHz – 26.5 GHz), | | |

^{*1)} The test method was also referred to KDB 789033 D01 General UNII Test Procedures 1 Old Rules v01r04 "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E (Issued on June 6, 2014)".

*2) Distance Factor: $20 \times \log (3.705/3.0 \text{ m}) = 1.83 \text{ dB}$ *3) Distance Factor: $20 \times \log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Measurement range : 30 MHz - 40 GHz Test data : APPENDIX

Test result : Pass

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SECTION 6: 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 and Test method |
|-----------------------------------|---|-------------------------|------------------|---------------|---------------------------------------|-------------|--|
| 26 dB Bandwidth | Enough to capture the emission | Close to 1 % of EBW | > RBW | Auto | Peak | Max Hold | Spectrum Analyzer |
| 99 % Occupied Bandwidth | Enough width to display emission skirts | 1 % to 5 % of OBW | ≥ 3 RBW | Auto | Sample | Max Hold | Spectrum Analyzer |
| 20 dB Bandwidth | Enough to capture the emission | 430 kHz | 1.3 MHz | Auto | Peak | Max Hold | Spectrum Analyzer |
| 6 dB Bandwidth | Enough to capture the emission | 100 kHz | 300 kHz | Auto | Peak | Max Hold | Spectrum Analyzer |
| Maximum Conducted Output Power | - | - | - | Auto | Average | - | Power Meter (Sensor: 80 MHz BW) (Method PM) |
| Maximum Power Spectral Density | Encompass the entire EBW | 1 MHz or 100 kHz *1) | ≥ 3 RBW | Auto | RMS Power Averaging (100 times) | Clear Write | Spectrum Analyzer |
| Conducted Spurious Emission*2) | 9 kHz – 150 kHz 150 kHz – 30 MHz | 200 Hz 10 kHz | 620 Hz 30 kHz | Auto | Peak | Max Hold | Spectrum Analyzer |

^{*} The test method was also referred to KDB 789033 D02 General UNII Test Procedures New Rules v01r02 "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E (Issued on April 8, 2016)".

The test results and limit are rounded off to two decimals place, so some differences might be observed.

Test data : APPENDIX

Test result : Pass

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^{*1)} KDB 789033 D02 says that RBW is set to be 500 kHz for 5.725 GHz-5.850 GHz, but it is not possible with spectrum analyzer, so RBW Correction Factor ($10 \log(500 \text{ kHz} / 100 \text{ kHz})$) was added to the test result.
*2) In the frequency range below 30 MHz, RBW was narrowed to separate the noise contents.
Then, wide-band noise near the limit was checked separately, however the noise was not detected as shown in the chart. (9 kHz-150 kHz: RBW = 200 Hz, 150 kHz-30 MHz: RBW = 10 kHz)

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APPENDIX 1: Test data

26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11a

| 11a | | | | |
|-------------|-----------|----------------|---------------|-------|
| Antenna | Tested | 26 dB Emission | 99 % Occupied | Limit |
| | Frequency | Bandwidth | Bandwidth | |
| | [MHz] | [MHz] | [MHz] | [MHz] |
| | 5180 | = | 16.779 | - |
| | 5220 | - | 16.841 | - |
| | 5240 | - | 16.744 | - |
| | 5260 | 19.548 | 16.820 | - |
| | 5300 | 20.091 | 16.781 | - |
| Sub Antenna | 5320 | 20.135 | 16.779 | - |
| Suo Antenna | 5500 | 20.141 | 16.744 | - |
| | 5580 | 20.742 | 16.821 | - |
| | 5700 | 20.099 | 16.809 | - |
| | 5745 | = | 16.848 | - |
| | 5785 | - | 16.898 | - |
| | 5825 | - | 16.977 | - |

11n-20 (SISO)

| Antenna | Tested | 26 dB Emission | 99 % Occupied | Limit |
|-------------|-----------|----------------|---------------|-------|
| | Frequency | Bandwidth | Bandwidth | |
| | [MHz] | [MHz] | [MHz] | [MHz] |
| | 5180 | - | 18.116 | - |
| | 5220 | - | 18.096 | - |
| | 5240 | - | 18.094 | - |
| | 5260 | 21.443 | 18.096 | - |
| | 5300 | 22.242 | 18.040 | - |
| Sub Antenna | 5320 | 21.989 | 18.059 | - |
| Suo Antenna | 5500 | 22.411 | 18.113 | - |
| | 5580 | 22.973 | 18.063 | - |
| | 5700 | 22.374 | 18.064 | - |
| | 5745 | - | 18.305 | - |
| | 5785 | - | 18.331 | - |
| | 5825 | - | 18.478 | - |

^{*} The test was carried out by worst antenna port.

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26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (SISO)

| 11n-40 (SISO) | | | | |
|---------------|-----------|----------------|---------------|-------|
| Antenna | Tested | 26 dB Emission | 99 % Occupied | Limit |
| | Frequency | Bandwidth | Bandwidth | |
| | [MHz] | [MHz] | [MHz] | [MHz] |
| | 5190 | - | 36.655 | - |
| | - | - | - | - |
| | 5230 | - | 36.923 | - |
| | 5270 | 44.720 | 36.811 | - |
| | - | - | - | - |
| Main Antenna | 5310 | 44.104 | 36.650 | - |
| Wain Antenia | 5510 | 44.097 | 36.571 | - |
| | 5550 | 47.252 | 36.752 | - |
| | 5670 | 49.838 | 36.682 | - |
| | 5755 | = | 36.733 | - |
| | - | - | - | - |
| | 5795 | - | 36.545 | - |

11n-20 (MIMO)

| Antenna | Tested | 26 dB Emission | 99 % Occupied | Limit |
|--------------|-----------|----------------|---------------|-------|
| | Frequency | Bandwidth | Bandwidth | |
| | [MHz] | [MHz] | [MHz] | [MHz] |
| | 5180 | - | 17.997 | - |
| | 5220 | - | 17.977 | - |
| | 5240 | - | 17.985 | - |
| | 5260 | 21.156 | 17.992 | - |
| | 5300 | 21.939 | 18.007 | - |
| Main Antenna | 5320 | 20.827 | 17.996 | - |
| Wani Antenia | 5500 | 21.388 | 18.064 | - |
| | 5580 | 21.587 | 18.004 | - |
| | 5700 | 20.139 | 17.960 | - |
| | 5745 | = | 18.050 | - |
| | 5785 | - | 18.081 | - |
| | 5825 | - | 18.328 | - |

^{*} The test was carried out by worst antenna port.

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26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (MIMO)

| 1111-40 (M1MO |) | | | |
|---------------|-----------|----------------|---------------|-------|
| Antenna | Tested | 26 dB Emission | 99 % Occupied | Limit |
| | Frequency | Bandwidth | Bandwidth | |
| | [MHz] | [MHz] | [MHz] | [MHz] |
| | 5190 | - | 36.575 | - |
| | - | - | - | - |
| | 5230 | - | 36.090 | - |
| | 5270 | 47.186 | 36.736 | - |
| | - | - | - | - |
| Main Antenna | 5310 | 44.153 | 36.620 | - |
| Wain Antenna | 5510 | 39.906 | 35.872 | - |
| | 5550 | 43.580 | 35.928 | - |
| | 5670 | 42.482 | 35.842 | - |
| | 5755 | - | 36.881 | - |
| | - | - | - | - |
| | 5795 | - | 36.747 | - |

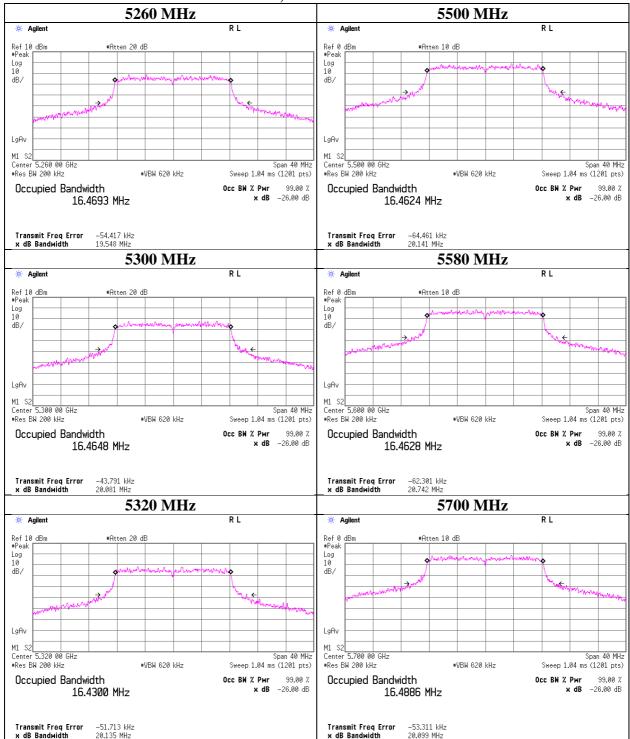
^{*} The test was carried out by worst antenna port.

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26 dB Emission Bandwidth

11a, Sub Antenna



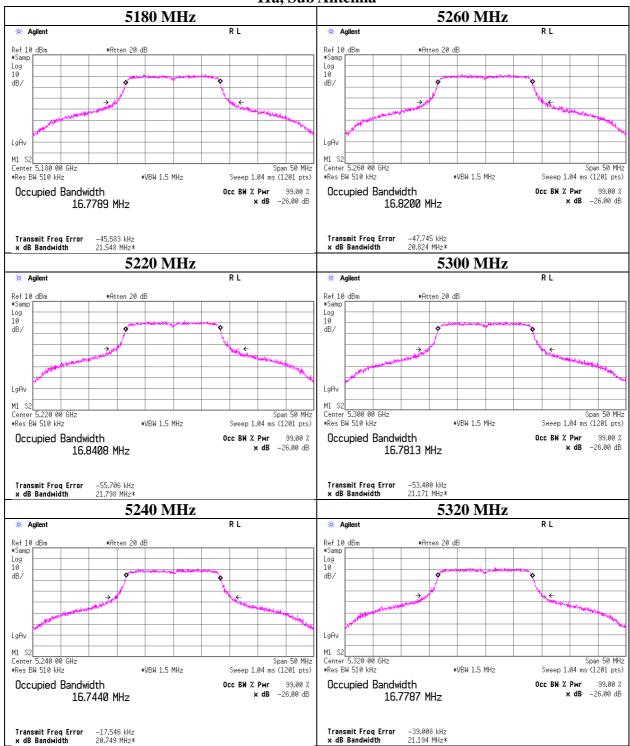
UL Japan, Inc. Shonan EMC Lab.

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

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99 % Occupied Bandwidth

11a, Sub Antenna

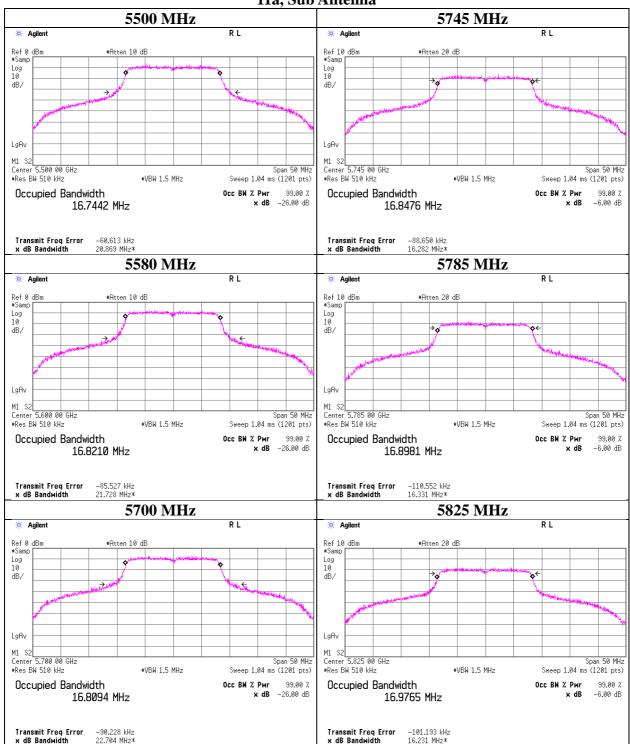


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99 % Occupied Bandwidth

11a, Sub Antenna

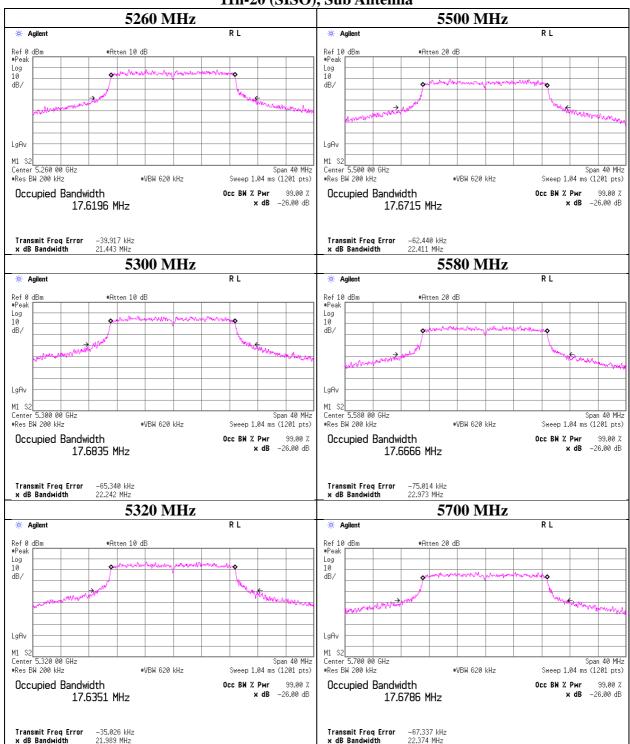


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26 dB Emission Bandwidth

11n-20 (SISO), Sub Antenna



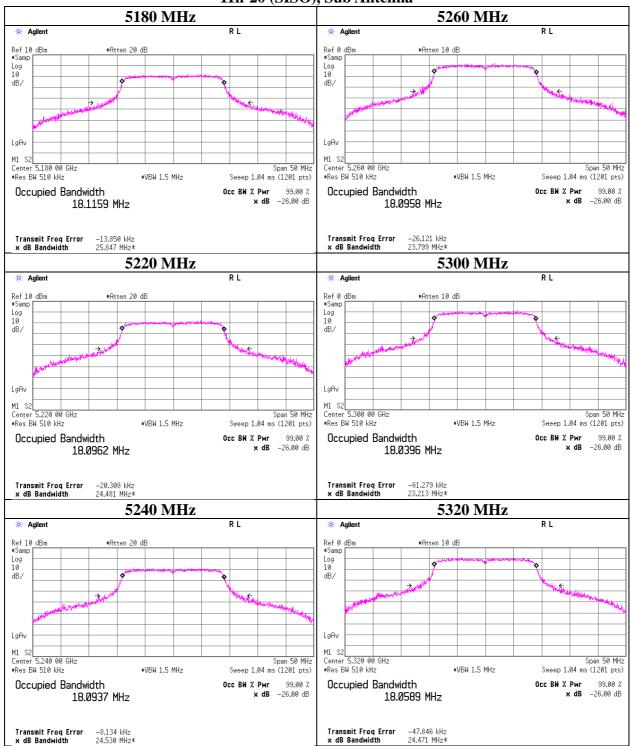
UL Japan, Inc. Shonan EMC Lab.

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99 % Occupied Bandwidth

11n-20 (SISO), Sub Antenna

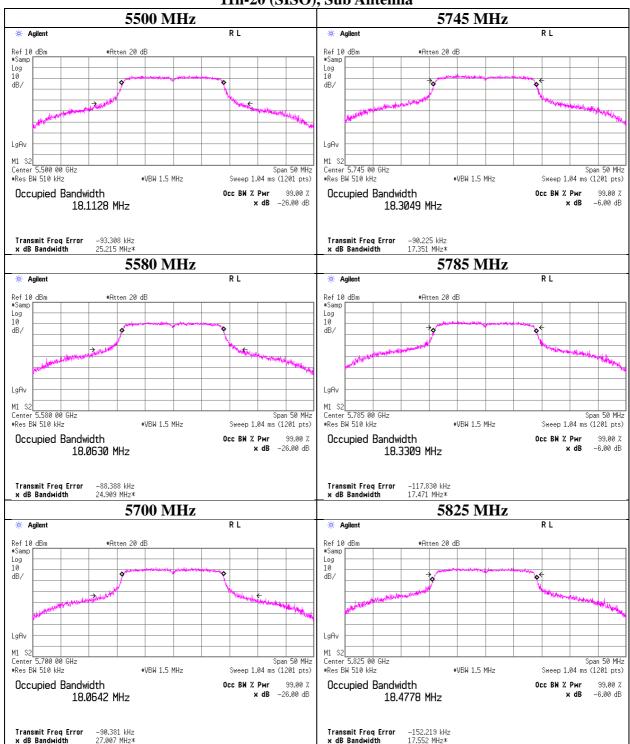


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99 % Occupied Bandwidth

11n-20 (SISO), Sub Antenna



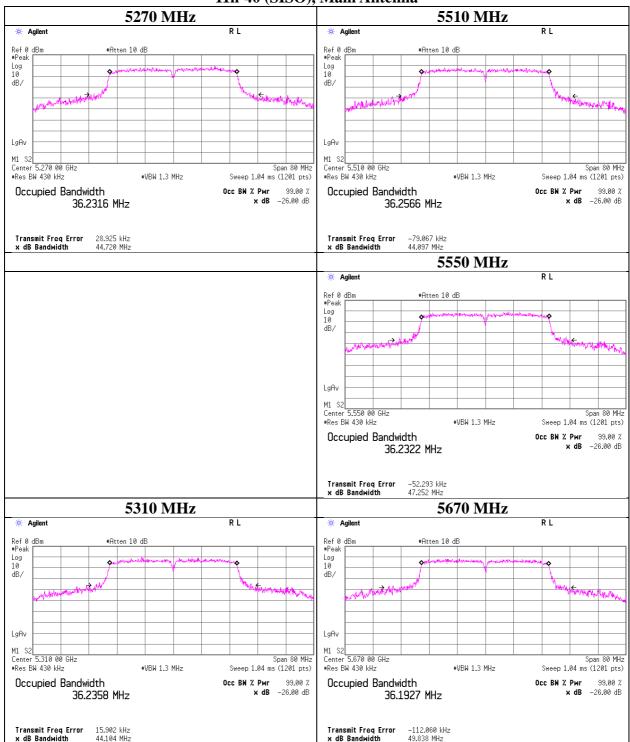
UL Japan, Inc. Shonan EMC Lab.

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26 dB Emission Bandwidth

11n-40 (SISO), Main Antenna



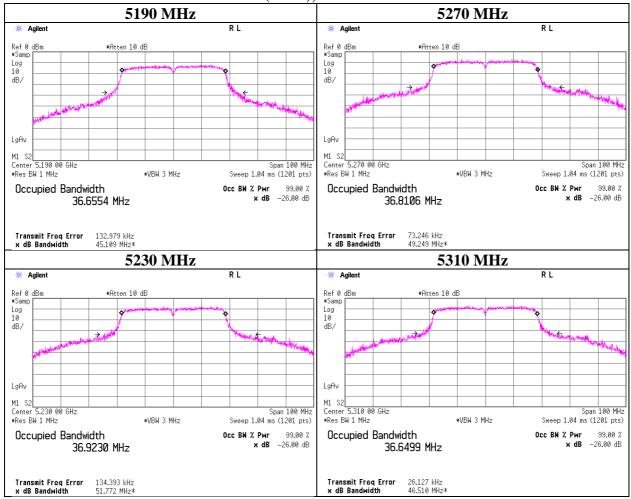
UL Japan, Inc. Shonan EMC Lab.

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99 % Occupied Bandwidth

11n-40 (SISO), Main Antenna

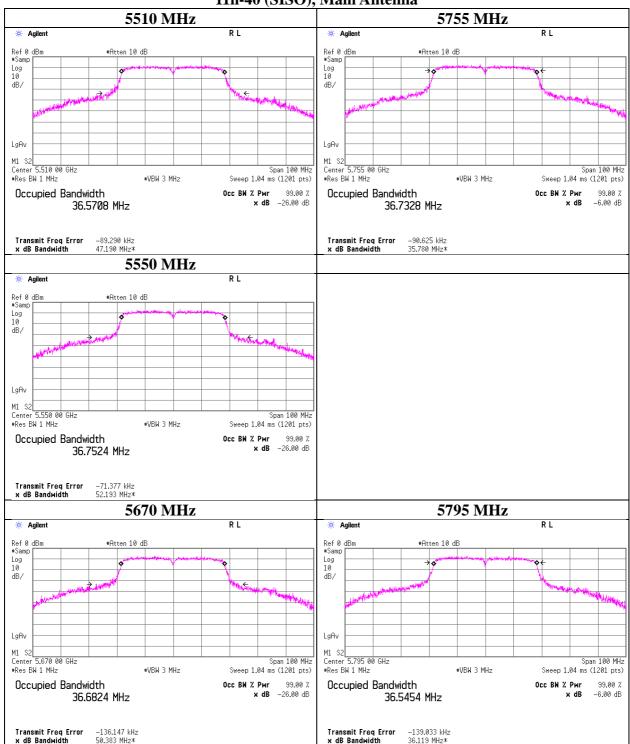


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99 % Occupied Bandwidth

11n-40 (SISO), Main Antenna



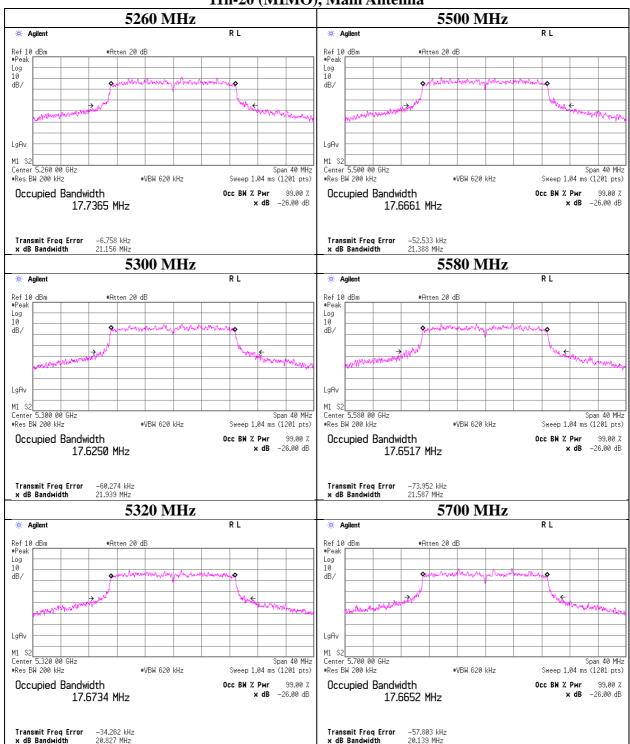
UL Japan, Inc. Shonan EMC Lab.

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26 dB Emission Bandwidth

11n-20 (MIMO), Main Antenna

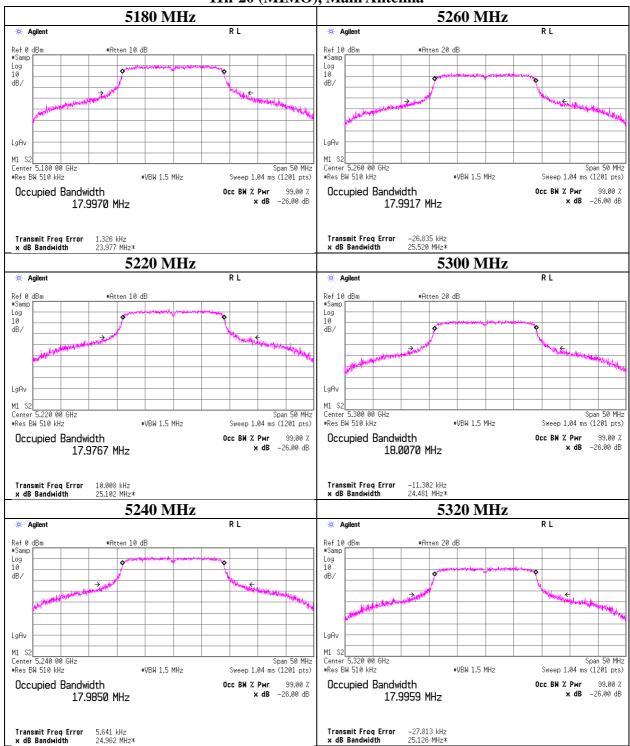


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99 % Occupied Bandwidth

11n-20 (MIMO), Main Antenna

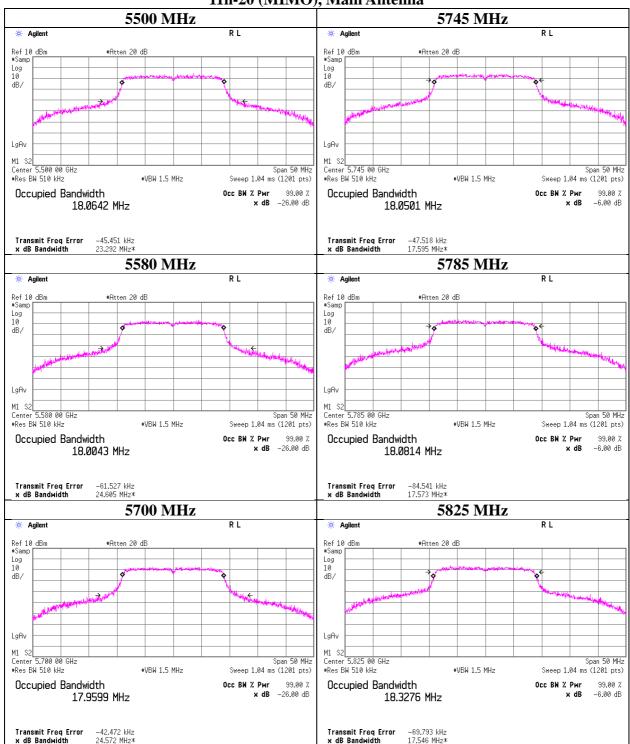


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99 % Occupied Bandwidth

11n-20 (MIMO), Main Antenna

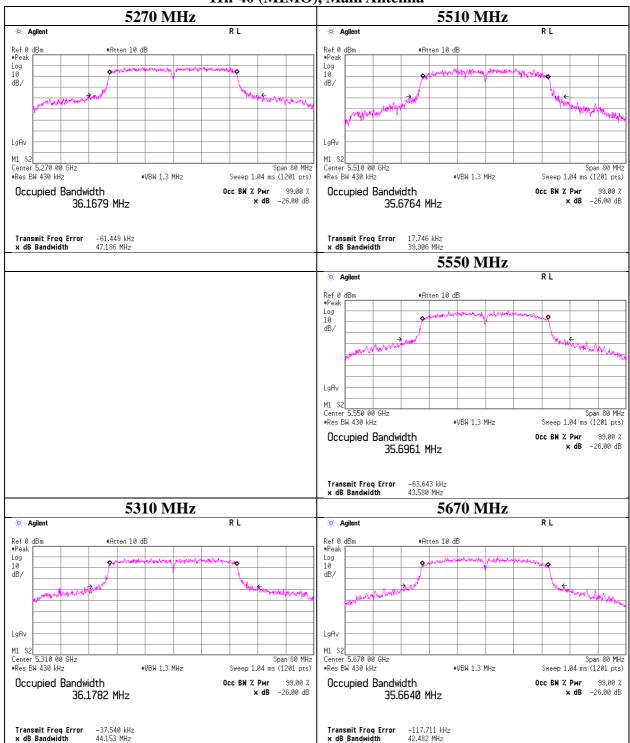


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26 dB Emission Bandwidth

11n-40 (MIMO), Main Antenna



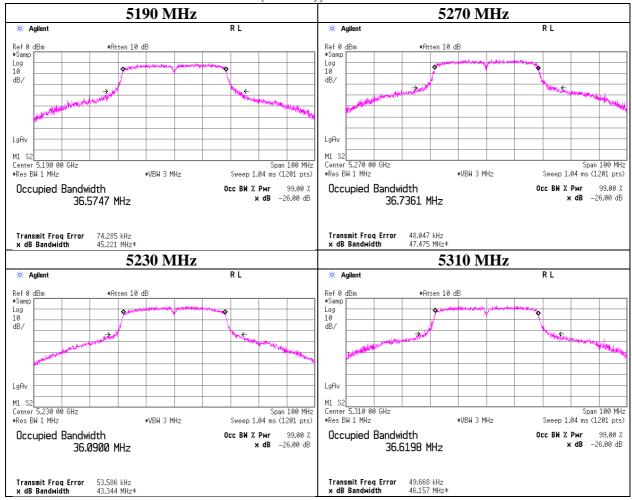
UL Japan, Inc. Shonan EMC Lab.

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99 % Occupied Bandwidth

11n-40 (MIMO), Main Antenna

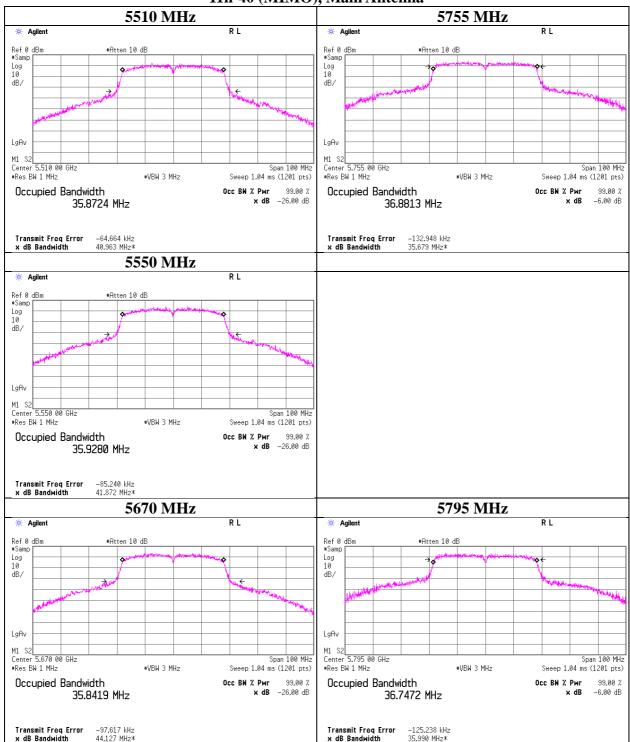


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99 % Occupied Bandwidth

11n-40 (MIMO), Main Antenna



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 FCC ID
 : YR7SKR3000P6

20 dB Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

| Mode | Antenna | Tested | 20 dB Emission |
|---------------|--------------|-----------|----------------|
| | | Frequency | Bandwidth |
| | | [MHz] | [MHz] |
| 11a | Sub Antenna | 5240 | 17.471 |
| 11n-20 (SISO) | Sub Antenna | 5240 | 18.999 |
| 11n-40 (SISO) | Main Antenna | 5230 | 39.907 |
| 11n-20 (MIMO) | Main Antenna | 5240 | 18.833 |
| 11n-40 (MIMO) | Main Antenna | 5230 | 38.018 |

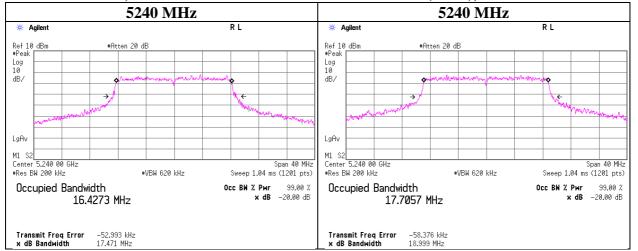
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

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FCC ID : YR7SKR3000P6

20dB Bandwdth

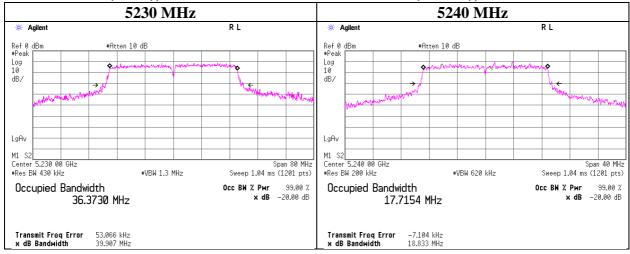
11a, Sub Antenna

11n-20 (SISO), Sub Antenna

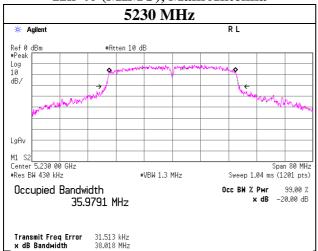


11n-40 (SISO), Main Antenna

11n-20 (MIMO), Main Antenna



11n-40 (MIMO), Main Antenna



UL Japan, Inc. Shonan EMC Lab.

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Test report No. : 11253018S-B-R1
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6 dB Bandwidth

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

| M ode | Antenna | Tested 6 dB | | Limit |
|------------------|------------------|-------------|-----------|-------|
| | | Frequency | Bandwidth | |
| | | [MHz] | [MHz] | [kHz] |
| | | 5745 | 15.868 | > 500 |
| 11a | Sub Antenna | 5785 | 16.007 | > 500 |
| | | 5825 | 16.289 | > 500 |
| | | 5745 | 17.230 | > 500 |
| 11n-20 (SISO) | Sub Antenna | 5785 | 17.271 | > 500 |
| | | 5825 | 17.245 | > 500 |
| 11n-40 (SISO) | Main Antenna | 5755 | 35.813 | > 500 |
| 1111 40 (5150) | Widin / Mitchila | 5795 | 35.447 | > 500 |
| | | 5745 | 17.670 | > 500 |
| 11n-20 (MIMO) | Main Antenna | 5785 | 17.624 | > 500 |
| | | 5825 | 16.954 | > 500 |
| 11n-40 (MIMO) | Main Antenna | 5755 | 35.846 | > 500 |
| 1111-40 (WIIWIO) | Wi am Antenna | 5795 | 35.691 | > 500 |

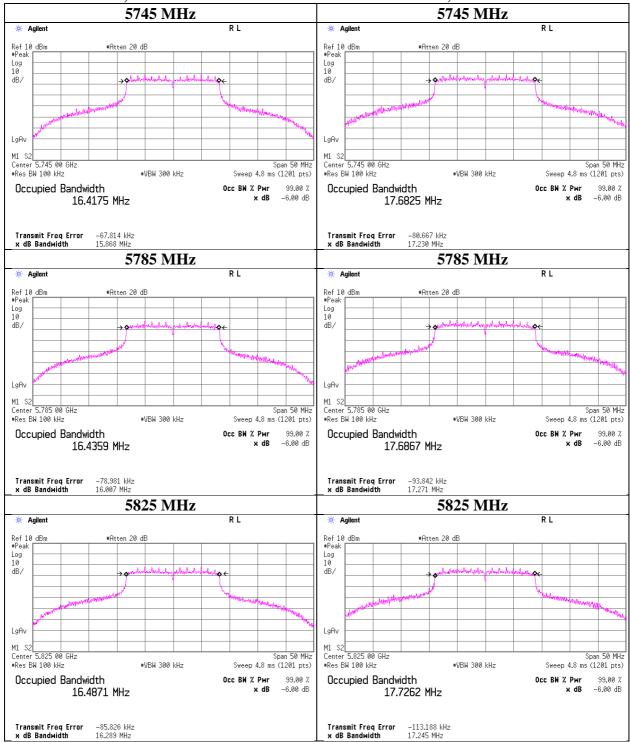
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6 dB Bandwidth

11a, Sub Antenna

11n-20, Sub Antenna



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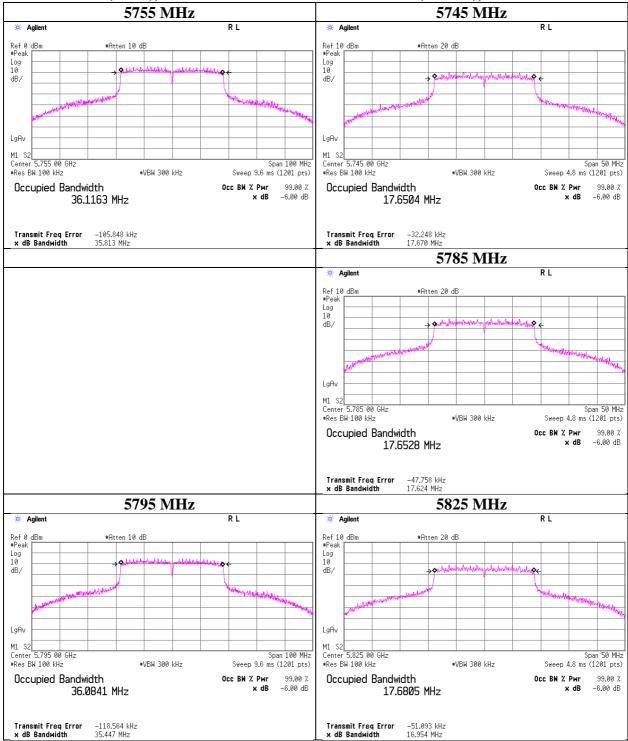
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

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6 dB Bandwidth

11n-40 (SISO), Main Antenna

11n-20 (MIMO), Sub Antenna



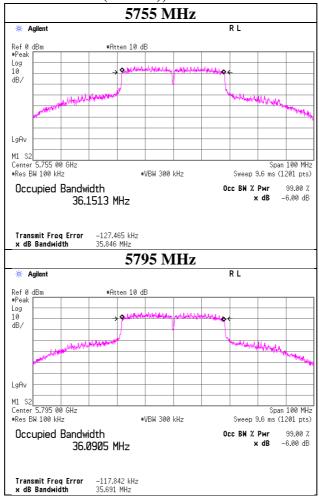
UL Japan, Inc. Shonan EMC Lab.

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6 dB Bandwidth

11n-40 (MIMO), Main Antenna



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Test report No. : 11253018S-B-R1
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FCC ID : YR7SKR3000P6

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1

DateJuly 7, 2016July 11, 2016Temperature / Humidity25 deg. C / 54 % RH23 deg. C / 45 % RHEngineerHiroyuki MorikawaYosuke Ishikawa

Mode Tx

11a, Sub Antenna

Applied limit: 15.407, mobile and portable client device

| 11a, Sub A | ntenna | | | | | | | | | Applied | l limit: 15. | .40 /, mob | iie and po | rtable clie | nt device |
|------------|---------|-------|--------|--------|---------|-------------|------------|-------|----------|----------|--------------|------------|------------|-------------|-----------|
| Tested | Power | Cable | Atten. | Duty | Antenna | 26 dB | 99% | | Conducte | ed Power | | | e.i.1 | r.p. | |
| Frequency | Meter | Loss | Loss | Factor | Gain | EBW | OBW | Res | ult | Limit | Margin | Res | sult | Limit | Margin |
| | Reading | | | | | (B for FCC) | (B for IC) | | | | | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dB] | [dBi] | [MHz] | [MHz] | [dBm] | [mW] | [dBm] | [dB] | [dBm] | [mW] | [dBm] | [dB] |
| 5180 | -1.61 | 3.97 | 9.99 | 0.18 | -1.61 | - | 16.779 | 12.53 | 17.91 | 23.97 | 11.44 | 10.92 | 12.36 | 29.97 | 19.05 |
| 5220 | -1.78 | 3.98 | 9.99 | 0.18 | -1.70 | - | 16.841 | 12.37 | 17.26 | 23.97 | 11.60 | 10.67 | 11.67 | 29.97 | 19.30 |
| 5240 | -2.91 | 3.98 | 9.99 | 0.18 | -1.75 | - | 16.744 | 11.24 | 13.30 | 23.97 | 12.73 | 9.49 | 8.90 | 29.97 | 20.48 |
| 5260 | -2.31 | 3.98 | 10.00 | 0.18 | -1.79 | 19.548 | 16.820 | 11.85 | 15.31 | 23.91 | 12.06 | 10.06 | 10.13 | 29.97 | 19.91 |
| 5300 | -2.48 | 3.99 | 10.00 | 0.18 | -1.89 | 20.081 | 16.781 | 11.69 | 14.76 | 23.97 | 12.28 | 9.81 | 9.56 | 29.97 | 20.17 |
| 5320 | -2.55 | 3.99 | 10.00 | 0.18 | -1.93 | 20.135 | 16.779 | 11.62 | 14.52 | 23.97 | 12.35 | 9.69 | 9.31 | 29.97 | 20.28 |
| 5500 | -1.86 | 4.02 | 10.01 | 0.18 | -2.34 | 20.141 | 17.744 | 12.35 | 17.18 | 23.97 | 11.62 | 10.01 | 10.03 | 29.97 | 19.96 |
| 5580 | -2.02 | 4.06 | 10.00 | 0.18 | -2.50 | 20.742 | 16.821 | 12.22 | 16.67 | 23.97 | 11.75 | 9.72 | 9.38 | 29.97 | 20.25 |
| 5700 | -2.35 | 4.11 | 9.99 | 0.18 | -2.73 | 20.099 | 16.809 | 11.93 | 15.60 | 23.97 | 12.04 | 9.20 | 8.32 | 29.97 | 20.77 |
| 5745 | -1.70 | 4.13 | 9.99 | 0.18 | -2.71 | - | - | 12.60 | 18.20 | 30.00 | 17.40 | 9.89 | 9.75 | 36.00 | 26.11 |
| 5785 | -2.06 | 4.15 | 9.99 | 0.18 | -2.57 | - | - | 12.26 | 16.83 | 30.00 | 17.74 | 9.69 | 9.32 | 36.00 | 26.31 |
| 5825 | -1.83 | 4.17 | 9.98 | 0.18 | -2.43 | - | - | 12.50 | 17.78 | 30.00 | 17.50 | 10.07 | 10.17 | 36.00 | 25.93 |

Sample Calculation:

 $Conducted\ Power\ Result = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss + Duty\ Factor\ e.i.r.p.\ Result = Conducted\ Power\ Result + Antenna\ Gain$

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

 $Although \ the \ EUT \ operates \ on \ Master \ mode, more \ stringent \ limit \ for \ Client \ device \ was \ applied. \ (W52 \ for \ FCC)$

UL Japan, Inc. Shonan EMC Lab.

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FCC ID : YR7SKR3000P6

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1

DateJuly 7, 2016July 11, 2016Temperature / Humidity25 deg. C / 54 % RH23 deg. C / 45 % RHEngineerHiroyuki MorikawaYosuke Ishikawa

Mode Tx

11n-20 (SISO), Sub Antenna

Applied limit: 15.407, mobile and portable client device

| 1111-20 (515 | 50), Sub | Amtenna | | | | | | | | пррпсс | i iiiiiit. 13. | .407, mou | nic and po | rtable elle | iii de vice |
|--------------|----------|---------|--------|--------|---------|-------------|------------|-------|---------|----------|----------------|-----------|------------|-------------|-------------|
| Tested | Power | Cable | Atten. | Duty | Antenna | 26 dB | 99% | | Conduct | ed Power | | | e.i.1 | r.p. | |
| Frequency | Meter | Loss | Loss | Factor | Gain | EBW | OBW | Res | sult | Limit | Margin | Res | sult | Limit | Margin |
| | Reading | | | | | (B for FCC) | (B for IC) | | | | | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dB] | [dBi] | [MHz] | [MHz] | [dBm] | [mW] | [dBm] | [dB] | [dBm] | [mW] | [dBm] | [dB] |
| 5180 | -1.80 | 3.97 | 9.99 | 0.25 | -1.61 | - | 18.116 | 12.41 | 17.42 | 23.97 | 11.56 | 10.80 | 12.03 | 29.97 | 19.17 |
| 5220 | -1.80 | 3.98 | 9.99 | 0.25 | -1.70 | - | 18.096 | 12.42 | 17.46 | 23.97 | 11.55 | 10.72 | 11.80 | 29.97 | 19.25 |
| 5240 | -2.54 | 3.98 | 9.99 | 0.25 | -1.75 | - | 18.094 | 11.68 | 14.72 | 23.97 | 12.29 | 9.93 | 9.85 | 29.97 | 20.04 |
| 5260 | -2.19 | 3.98 | 10.00 | 0.25 | -1.79 | 21.443 | 18.096 | 12.04 | 16.00 | 23.97 | 11.93 | 10.25 | 10.59 | 29.97 | 19.72 |
| 5300 | -2.59 | 3.99 | 10.00 | 0.25 | -1.89 | 22.242 | 18.040 | 11.65 | 14.62 | 23.97 | 12.32 | 9.77 | 9.47 | 29.97 | 20.21 |
| 5320 | -2.52 | 3.99 | 10.00 | 0.25 | -1.93 | 21.989 | 18.059 | 11.72 | 14.86 | 23.97 | 12.25 | 9.79 | 9.53 | 29.97 | 20.18 |
| 5500 | -1.89 | 4.02 | 10.01 | 0.25 | -2.34 | 22.411 | 18.113 | 12.39 | 17.34 | 23.97 | 11.58 | 10.05 | 10.12 | 29.97 | 19.92 |
| 5580 | -2.16 | 4.06 | 10.00 | 0.25 | -2.50 | 22.973 | 18.063 | 12.15 | 16.41 | 23.97 | 11.82 | 9.65 | 9.23 | 29.97 | 20.32 |
| 5700 | -2.19 | 4.11 | 9.99 | 0.25 | -2.73 | 22.374 | 18.064 | 12.16 | 16.44 | 23.97 | 11.81 | 9.43 | 8.77 | 29.97 | 20.54 |
| 5745 | -1.55 | 4.13 | 9.99 | 0.25 | -2.71 | - | - | 12.82 | 19.14 | 30.00 | 17.18 | 10.11 | 10.26 | 36.00 | 25.89 |
| 5785 | -1.84 | 4.15 | 9.99 | 0.25 | -2.57 | - | - | 12.55 | 17.99 | 30.00 | 17.45 | 9.98 | 9.96 | 36.00 | 26.02 |
| 5825 | -2.22 | 4.17 | 9.98 | 0.25 | -2.43 | - | - | 12.18 | 16.52 | 30.00 | 17.82 | 9.75 | 9.45 | 36.00 | 26.25 |
| 0 1 0 1 | | | | | | | | | | | | | | | |

Sample Calculation:

 $Conducted\ Power\ Result = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss + Duty\ Factor\ e.i.r.p.\ Result = Conducted\ Power\ Result + Antenna\ Gain$

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

 $Although \ the \ EUT \ operates \ on \ Master \ mode, more \ stringent \ limit \ for \ Client \ device \ was \ applied. \ (W52 \ for \ FCC)$

UL Japan, Inc. Shonan EMC Lab.

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

Test report No. : 11253018S-B-R1
Page : 41 of 120
Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 7, 2016
Temperature / Humidity Engineer 25 deg. C / 54 % RH
Hiroyuki Morikawa

Mode Tx

11n-40 (SISO), Main Antenna

Applied limit: 15.407, mobile and portable client device

| 11n-40 (515 | oo), man | Antenn | a | | | | | | | пррисс | 1 IIIIII . 13 | .407, 11100 | nic and po | rtable elle | ont device |
|-------------|----------|--------|--------|--------|---------|-------------|------------|-------|---------|----------|---------------|-------------|------------|-------------|------------|
| Tested | Power | Cable | Atten. | Duty | Antenna | 26 dB | 99% | | Conduct | ed Power | | | e.i. | r.p. | |
| Frequency | Meter | Loss | Loss | Factor | Gain | EBW | OBW | Res | sult | Limit | M argin | Re | sult | Limit | M argin |
| | Reading | | | | | (B for FCC) | (B for IC) | | | | | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dB] | [dBi] | [MHz] | [MHz] | [dBm] | [mW] | [dBm] | [dB] | [dBm] | [mW] | [dBm] | [dB] |
| 5190 | -5.18 | 3.97 | 9.99 | 0.46 | -2.26 | - | 36.655 | 9.24 | 8.39 | 23.97 | 14.73 | 6.98 | 4.99 | 29.97 | 22.99 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5230 | -1.79 | 3.98 | 9.99 | 0.46 | -1.94 | - | 36.545 | 12.64 | 18.37 | 23.97 | 11.33 | 10.70 | 11.75 | 29.97 | 19.27 |
| 5270 | -2.19 | 3.98 | 10.00 | 0.46 | -1.62 | 44.720 | 36.811 | 12.25 | 16.79 | 23.97 | 11.72 | 10.63 | 11.56 | 29.97 | 19.34 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5310 | -4.39 | 3.99 | 10.00 | 0.46 | -1.30 | 44.104 | 36.650 | 10.06 | 10.14 | 23.97 | 13.91 | 8.76 | 7.52 | 29.97 | 21.21 |
| 5510 | -3.19 | 4.02 | 10.01 | 0.46 | -2.48 | 44.097 | 36.571 | 11.30 | 13.49 | 23.97 | 12.67 | 8.82 | 7.62 | 29.97 | 21.15 |
| 5550 | -1.72 | 4.04 | 10.01 | 0.46 | -2.54 | 47.252 | 36.752 | 12.79 | 19.01 | 23.97 | 11.18 | 10.25 | 10.59 | 29.97 | 19.72 |
| 5670 | -2.41 | 4.10 | 10.00 | 0.46 | -2.73 | 49.838 | 36.682 | 12.15 | 16.41 | 23.97 | 11.82 | 9.42 | 8.76 | 29.97 | 20.55 |
| 5755 | -1.78 | 4.14 | 9.99 | 0.46 | -2.60 | - | - | 12.81 | 19.10 | 30.00 | 17.19 | 10.21 | 10.49 | 36.00 | 25.79 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5795 | -2.27 | 4.16 | 9.99 | 0.46 | -2.33 | - | - | 12.34 | 17.14 | 30.00 | 17.66 | 10.01 | 10.02 | 36.00 | 25.99 |

Sample Calculation:

 $Conducted\ Power\ Result = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss + Duty\ Factor\ e.i.r.p.\ Result = Conducted\ Power\ Result + Antenna\ Gain$

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

 $Although \ the \ EUT \ operates \ on \ Master \ mode, more \ stringent \ limit \ for \ Client \ device \ was \ applied. \ (W52 \ for \ FCC)$

UL Japan, Inc. Shonan EMC Lab.

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

Test report No. : 11253018S-B-R1
Page : 42 of 120
Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1

DateJuly 7, 2016July 11, 2016Temperature / Humidity25 deg. C / 54 % RH23 deg. C / 45 % RHEngineerHiroyuki MorikawaYosuke Ishikawa

Mode Tx

11n-20 (MIMO), Main+Sub Antenna

Applied limit: 15.407, mobile and portable client device

| 1111-20 (1111 | 1110), 111a | III I D UD ZX | псша | | | | | | | Jiica iiiiii. | 10.107, 111 | io onio una p | ortuoie en | |
|---------------|-------------|---------------|-------|---------|----------|----------|-------|---------|-------|---------------|-------------|---------------|------------|--------|
| Tested | 26 dB | 99% | | | Conducte | ed power | | | | | e.i.1 | r.p. | | |
| Frequency | EBW | OBW | | Antenna | | Result | Limit | M argin | | Antenna | | Result | Limit | Margin |
| | (B for FCC) | (B for IC) | M ain | Sub | Total | | | | Main | Sub | Total | | | |
| [MHz] | [MHz] | [MHz] | [mW] | [mW] | [mW] | [dBm] | [dBm] | [dB] | [mW] | [mW] | [mW] | [dBm] | [dBm] | [dB] |
| 5180 | - | 17.997 | 18.07 | 16.26 | 34.33 | 15.36 | 23.97 | 8.61 | 10.54 | 11.22 | 21.77 | 13.38 | 29.97 | 16.59 |
| 5220 | - | 17.977 | 16.29 | 14.55 | 30.85 | 14.89 | 23.97 | 9.08 | 10.23 | 9.84 | 20.07 | 13.03 | 29.97 | 16.94 |
| 5240 | - | 17.985 | 14.35 | 12.56 | 26.92 | 14.30 | 23.97 | 9.67 | 9.35 | 8.40 | 17.75 | 12.49 | 29.97 | 17.48 |
| 5260 | 21.156 | 17.992 | 18.41 | 15.03 | 33.44 | 15.24 | 23.97 | 8.73 | 12.45 | 9.95 | 22.39 | 13.50 | 29.97 | 16.47 |
| 5300 | 21.939 | 18.007 | 16.11 | 14.42 | 30.53 | 14.85 | 23.97 | 9.12 | 11.72 | 9.34 | 21.07 | 13.24 | 29.97 | 16.73 |
| 5320 | 20.827 | 17.996 | 16.11 | 13.30 | 29.41 | 14.69 | 23.97 | 9.28 | 12.16 | 8.53 | 20.69 | 13.16 | 29.97 | 16.81 |
| 5500 | 21.388 | 18.064 | 16.52 | 17.95 | 34.47 | 15.37 | 23.97 | 8.60 | 9.36 | 10.47 | 19.84 | 12.97 | 29.97 | 17.00 |
| 5580 | 21.587 | 18.004 | 16.79 | 16.33 | 33.12 | 15.20 | 23.97 | 8.77 | 9.25 | 9.19 | 18.44 | 12.66 | 29.97 | 17.31 |
| 5700 | 20.139 | 17.960 | 16.37 | 17.06 | 33.43 | 15.24 | 23.97 | 8.73 | 8.65 | 9.10 | 17.74 | 12.49 | 29.97 | 17.48 |
| 5745 | - | - | 26.92 | 23.44 | 50.36 | 17.02 | 30.00 | 12.98 | 14.55 | 12.56 | 27.11 | 14.33 | 36.00 | 21.67 |
| 5785 | - | - | 22.34 | 21.73 | 44.06 | 16.44 | 30.00 | 13.56 | 12.86 | 12.03 | 24.89 | 13.96 | 36.00 | 22.04 |
| 5825 | - | - | 21.78 | 20.61 | 42.38 | 16.27 | 30.00 | 13.73 | 13.36 | 11.79 | 25.14 | 14.00 | 36.00 | 22.00 |

| | | Main An | tenna | | | | | Sub Ante | nna | | | | |
|-----------|--------|---------|-------|--------|---------|-------|----------|----------|-------|--------|---------|-------|----------|
| Tested | Duty | Power | Cable | Atten. | Antenna | Res | sult | Power | Cable | Atten. | Antenna | Res | sult |
| Frequency | Factor | Meter | Loss | Loss | Gain | Cond. | e.i.r.p. | Meter | Loss | Loss | Gain | Cond. | e.i.r.p. |
| | | Reading | | | | Power | | Reading | | | | Power | |
| [MHz] | [dB] | [dBm] | [dB] | [dB] | [dBi] | [dBm] | [dBm] | [dBm] | [dB] | [dB] | [dBi] | [dBm] | [dBm] |
| 5180 | 0.49 | -1.88 | 3.97 | 9.99 | -2.34 | 12.57 | 10.23 | -2.34 | 3.97 | 9.99 | -1.61 | 12.11 | 10.50 |
| 5220 | 0.49 | -2.34 | 3.98 | 9.99 | -2.02 | 12.12 | 10.10 | -2.83 | 3.98 | 9.99 | -1.70 | 11.63 | 9.93 |
| 5240 | 0.49 | -2.89 | 3.98 | 9.99 | -1.86 | 11.57 | 9.71 | -3.47 | 3.98 | 9.99 | -1.75 | 10.99 | 9.24 |
| 5260 | 0.49 | -1.82 | 3.98 | 10.00 | -1.70 | 12.65 | 10.95 | -2.70 | 3.98 | 10.00 | -1.79 | 11.77 | 9.98 |
| 5300 | 0.49 | -2.41 | 3.99 | 10.00 | -1.38 | 12.07 | 10.69 | -2.89 | 3.99 | 10.00 | -1.89 | 11.59 | 9.71 |
| 5320 | 0.49 | -2.41 | 3.99 | 10.00 | -1.22 | 12.07 | 10.85 | -3.24 | 3.99 | 10.00 | -1.93 | 11.24 | 9.31 |
| 5500 | 0.49 | -2.34 | 4.02 | 10.01 | -2.47 | 12.18 | 9.71 | -1.98 | 4.02 | 10.01 | -2.34 | 12.54 | 10.20 |
| 5580 | 0.49 | -2.30 | 4.06 | 10.00 | -2.59 | 12.25 | 9.66 | -2.42 | 4.06 | 10.00 | -2.50 | 12.13 | 9.63 |
| 5700 | 0.49 | -2.45 | 4.11 | 9.99 | -2.77 | 12.14 | 9.37 | -2.27 | 4.11 | 9.99 | -2.73 | 12.32 | 9.59 |
| 5745 | 0.49 | -0.31 | 4.13 | 9.99 | -2.67 | 14.30 | 11.63 | -0.91 | 4.13 | 9.99 | -2.71 | 13.70 | 10.99 |
| 5785 | 0.49 | -1.14 | 4.15 | 9.99 | -2.40 | 13.49 | 11.09 | -1.26 | 4.15 | 9.99 | -2.57 | 13.37 | 10.80 |
| 5825 | 0.49 | -1.26 | 4.17 | 9.98 | -2.12 | 13.38 | 11.26 | -1.50 | 4.17 | 9.98 | -2.43 | 13.14 | 10.71 |

Sample Calculation:

 $Conducted\ Power\ Result = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss + Duty\ Factor\ e.i.r.p.\ Result = Conducted\ Power\ Result + Antenna\ Gain$

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

UL Japan, Inc. Shonan EMC Lab.

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

Test report No. : 11253018S-B-R1
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 7, 2016
Temperature / Humidity Engineer 25 deg. C / 54 % RH
Hiroyuki Morikawa

Mode Tx

11n-40 (MIMO), Main+Sub Antenna

Applied limit: 15.407, mobile and portable client device

| 1111-40 (1411 | 1110), 111a | III I D U D A | псша | | | | | | - P | piica iiiiit. | 10.107, 11. | roome ama p | ortuoie en | |
|---------------|-------------|---------------|-------|---------|----------|----------|-------|--------|-------|---------------|-------------|-------------|------------|---------|
| Tested | 26 dB | 99% | | | Conducto | ed power | | | | | e.i. | r.p. | | |
| Frequency | EBW | OBW | | Antenna | | Result | Limit | Margin | | Antenna | | Result | Limit | M argin |
| | (B for FCC) | (B for IC) | Main | Sub | Total | | | | M ain | Sub | Total | | | |
| [MHz] | [MHz] | [MHz] | [mW] | [mW] | [mW] | [dBm] | [dBm] | [dB] | [mW] | [mW] | [mW] | [dBm] | [dBm] | [dB] |
| 5190 | - | 36.575 | 8.87 | 6.30 | 15.17 | 11.81 | 23.97 | 12.16 | 5.27 | 4.32 | 9.60 | 9.82 | 29.97 | 20.15 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5230 | - | 36.551 | 18.54 | 16.22 | 34.75 | 15.41 | 23.97 | 8.56 | 11.86 | 10.90 | 22.76 | 13.57 | 29.97 | 16.40 |
| 5270 | 47.186 | 36.736 | 18.66 | 15.42 | 34.08 | 15.33 | 23.97 | 8.64 | 12.85 | 10.15 | 23.00 | 13.62 | 29.97 | 16.35 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5310 | 44.153 | 36.620 | 9.33 | 7.76 | 17.10 | 12.33 | 23.97 | 11.64 | 6.92 | 5.00 | 11.92 | 10.76 | 29.97 | 19.21 |
| 5510 | 39.906 | 35.872 | 13.52 | 15.21 | 28.73 | 14.58 | 23.97 | 9.39 | 7.64 | 8.83 | 16.47 | 12.17 | 29.97 | 17.80 |
| 5550 | 43.580 | 35.928 | 19.63 | 20.00 | 39.63 | 15.98 | 23.97 | 7.99 | 10.93 | 11.41 | 22.34 | 13.49 | 29.97 | 16.48 |
| 5670 | 42.482 | 35.842 | 17.06 | 15.38 | 32.44 | 15.11 | 23.97 | 8.86 | 9.11 | 8.31 | 17.42 | 12.41 | 29.97 | 17.56 |
| 5755 | - | - | 22.70 | 16.67 | 39.37 | 15.95 | 30.00 | 14.05 | 12.46 | 9.01 | 21.47 | 13.32 | 36.00 | 22.68 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5795 | - | - | 20.99 | 18.88 | 39.87 | 16.01 | 30.00 | 13.99 | 12.28 | 10.54 | 22.81 | 13.58 | 36.00 | 22.42 |

| | | Main An | tenna | | | | | Sub Ante | enna | | | | |
|-----------|--------|---------|-------|--------|---------|-------|----------|----------|-------|--------|---------|-------|----------|
| Tested | Duty | Power | Cable | Atten. | Antenna | Res | sult | Power | Cable | Atten. | Antenna | Res | sult |
| Frequency | Factor | Meter | Loss | Loss | Gain | Cond. | e.i.r.p. | Meter | Loss | Loss | Gain | Cond. | e.i.r.p. |
| | | Reading | | | | Power | | Reading | | | | Power | |
| [MHz] | [dB] | [dBm] | [dB] | [dB] | [dBi] | [dBm] | [dBm] | [dBm] | [dB] | [dB] | [dBi] | [dBm] | [dBm] |
| 5190 | 0.68 | -5.16 | 3.97 | 9.99 | -2.26 | 9.48 | 7.22 | -6.65 | 3.97 | 9.99 | -1.63 | 7.99 | 6.36 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5230 | 0.68 | -1.97 | 3.98 | 9.99 | -1.94 | 12.68 | 10.74 | -2.55 | 3.98 | 9.99 | -1.72 | 12.10 | 10.38 |
| 5270 | 0.68 | -1.95 | 3.98 | 10.00 | -1.62 | 12.71 | 11.09 | -2.78 | 3.98 | 10.00 | -1.82 | 11.88 | 10.06 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5310 | 0.68 | -4.97 | 3.99 | 10.00 | -1.30 | 9.70 | 8.40 | -5.77 | 3.99 | 10.00 | -1.91 | 8.90 | 6.99 |
| 5510 | 0.68 | -3.40 | 4.02 | 10.01 | -2.48 | 11.31 | 8.83 | -2.89 | 4.02 | 10.01 | -2.36 | 11.82 | 9.46 |
| 5550 | 0.68 | -1.80 | 4.04 | 10.01 | -2.54 | 12.93 | 10.39 | -1.72 | 4.04 | 10.01 | -2.44 | 13.01 | 10.57 |
| 5670 | 0.68 | -2.46 | 4.10 | 10.00 | -2.73 | 12.32 | 9.59 | -2.91 | 4.10 | 10.00 | -2.67 | 11.87 | 9.20 |
| 5755 | 0.68 | -1.25 | 4.14 | 9.99 | -2.60 | 13.56 | 10.96 | -2.59 | 4.14 | 9.99 | -2.67 | 12.22 | 9.55 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5795 | 0.68 | -1.61 | 4.16 | 9.99 | -2.33 | 13.22 | 10.89 | -2.07 | 4.16 | 9.99 | -2.53 | 12.76 | 10.23 |

Sample Calculation:

 $Conducted\ Power\ Result = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss + Duty\ Factor\ e.i.r.p.\ Result = Conducted\ Power\ Result + Antenna\ Gain$

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

UL Japan, Inc. Shonan EMC Lab.

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

Test report No. : 11253018S-B-R1
Page : 44 of 120
Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 7, 2016
Temperature / Humidity Engineer 25 deg. C / 54 % RH
Hiroyuki Morikawa

Mode Tx

11a, 5220 MHz

| - | Rate | | Re | eading (tir | ned avera | ge) | | Duty | В | urst pow | er | Remarks |
|---|------|-------|-------|-------------|-----------|-------|-------|--------|-------|----------|-------|---------|
| | | | | Ant | enna | | | factor | | Antenna | | |
| | | M ain | Sub | Main | Sub | Total | Total | | Main | Sub | Total | |
| | | [dBm] | [dBm] | [mW] | [mW] | [mW] | [dBm] | [dB] | [dBm] | [dBm] | [dBm] | |
| - | 6 | -2.47 | -1.75 | - | - | - | - | 0.06 | -2.41 | -1.69 | - | |
| | 9 | -1.96 | -1.97 | - | - | - | - | 0.09 | -1.87 | -1.88 | - | |
| | 12 | -1.99 | -2.03 | - | | - | - | 0.12 | -1.87 | -1.91 | - | |
| | 18 | -2.06 | -1.78 | - | - | - | - | 0.18 | -1.88 | -1.60 | - | * TX |
| | 24 | -2.19 | -1.91 | - | | - | - | 0.24 | -1.95 | -1.67 | - | |
| | 36 | -2.35 | -2.05 | - | | - | - | 0.35 | -2.00 | -1.70 | - | |
| | 48 | -3.93 | -3.67 | - | - | - | - | 0.50 | -3.43 | -3.17 | - | |
| | 54 | -4.90 | -4.66 | - | - | - | - | 0.56 | -4.34 | -4.10 | - | |

^{*} Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

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

11n-20 (SISO), 5220 MHz

| GI | MCS | | Re | eading (tir | ned avera | ge) | | Duty | В | urst pow | er | Remarks |
|-------|--------|-------|-------|-------------|-----------|-------|-------|--------|-------|----------|-------|---------|
| | Number | | | Ant | enna | | | factor | | Antenna | | |
| | | Main | Sub | M ain | Sub | Total | Total | | Main | Sub | Total | |
| | | [dBm] | [dBm] | [mW] | [mW] | [mW] | [dBm] | [dB] | [dBm] | [dBm] | [dBm] | |
| long | 0 | -2.51 | -2.04 | - | - | - | - | 0.07 | -2.44 | -1.97 | - | |
| | 1 | -2.42 | -2.17 | - | - | - | - | 0.13 | -2.29 | -2.04 | - | |
| | 2 | -2.31 | -1.96 | - | - | - | - | 0.19 | -2.12 | -1.77 | - | |
| | 3 | -2.21 | -1.80 | - | - | - | - | 0.25 | -1.96 | -1.55 | - | * TX |
| | 4 | -2.33 | -1.93 | - | | - | - | 0.36 | -1.97 | -1.57 | - | |
| | 5 | -4.06 | -3.79 | - | - | - | - | 0.46 | -3.60 | -3.33 | - | |
| | 6 | -5.92 | -5.78 | - | | - | - | 0.55 | -5.37 | -5.23 | - | |
| | 7 | -7.41 | -6.93 | - | - | - | - | 0.60 | -6.81 | -6.33 | - | |
| short | 0 | -2.25 | -2.16 | - | - | - | - | 0.05 | -2.20 | -2.11 | - | |
| | 1 | -2.44 | -2.42 | - | - | - | - | 0.20 | -2.24 | -2.22 | - | |
| | 2 | -2.48 | -2.05 | - | | - | - | 0.21 | -2.27 | -1.84 | - | |
| | 3 | -2.25 | -1.92 | - | - | - | - | 0.27 | -1.98 | -1.65 | - | |
| | 4 | -2.43 | -2.11 | - | | - | - | 0.39 | -2.04 | -1.72 | - | |
| | 5 | -4.10 | -3.82 | - | - | - | - | 0.49 | -3.61 | -3.33 | - | |
| | 6 | -6.06 | -6.01 | - | - | - | - | 0.60 | -5.46 | -5.41 | - | |
| | 7 | -7.06 | -7.00 | - | - | - | - | 0.66 | -6.40 | -6.34 | - | |

^{*} Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

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

UL Japan, Inc. Shonan EMC Lab.

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

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Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 7, 2016
Temperature / Humidity 25 deg. C / 54 % RH
Engineer Hiroyuki Morikawa

Mode Tx

11n-40 (SISO), 5190 MHz

| GI | MCS | | Re | eading (tir | ned avera | ge) | | Duty | В | urst pow | er | Remarks |
|-------|--------|-------|-------|-------------|-----------|-------|-------|--------|-------|----------|-------|---------|
| | Number | | | Ant | enna | | | factor | | Antenna | | |
| | | Main | Sub | Main | Sub | Total | Total | | Main | Sub | Total | |
| | | [dBm] | [dBm] | [mW] | [mW] | [mW] | [dBm] | [dB] | [dBm] | [dBm] | [dBm] | |
| long | 0 | -4.97 | -6.54 | - | =: | - | - | 0.14 | -4.83 | -6.40 | - | |
| | 1 | -5.13 | -6.79 | - | - | - | - | 0.34 | -4.79 | -6.45 | - | |
| | 2 | -5.22 | -6.82 | - | | - | - | 0.37 | -4.85 | -6.45 | - | |
| | 3 | -5.18 | -5.76 | - | - | - | - | 0.46 | -4.72 | -5.30 | - | * TX |
| | 4 | -5.57 | -5.95 | - | | - | - | 0.64 | -4.93 | -5.31 | - | |
| | 5 | -5.68 | -6.22 | - | | - | - | 0.82 | -4.86 | -5.40 | - | |
| | 6 | -5.72 | -6.35 | - | - | - | - | 0.90 | -4.82 | -5.45 | - | |
| | 7 | -6.49 | -7.74 | - | - | - | - | 0.98 | -5.51 | -6.76 | - | |
| short | 0 | -6.58 | -6.58 | - | - | - | - | 0.15 | -6.43 | -6.43 | - | |
| | 1 | -5.40 | -6.73 | - | - | - | - | 0.28 | -5.12 | -6.45 | - | |
| | 2 | -5.53 | -6.85 | - | | - | - | 0.40 | -5.13 | -6.45 | - | |
| | 3 | -5.44 | -5.85 | - | - | - | - | 0.67 | -4.77 | -5.18 | - | |
| | 4 | -5.79 | -6.07 | - | - | - | - | 0.75 | -5.04 | -5.32 | - | |
| | 5 | -5.94 | -6.21 | - | - | - | - | 0.84 | -5.10 | -5.37 | - | |
| | 6 | -5.91 | -6.50 | - | - | - | - | 0.98 | -4.93 | -5.52 | - | |
| | 7 | -6.78 | -7.77 | - | - | - | - | 1.06 | -5.72 | -6.71 | - | |

^{*} Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

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

11n-20 (MIMO), 5220 MHz

| 1111-20 (| MIMO), | 3220 WIII | L | | | | | | | | | |
|-----------|--------|-----------|-------|------------|-----------|-------|-------|--------|-------|-----------|-------|---------|
| GI | MCS | | Re | ading (tin | ned avera | ge) | | Duty | В | surst pow | er | Remarks |
| | Number | | | Ante | enna | | | factor | | Antenna | | |
| | | Main | Sub | Main | Sub | Total | Total | | Main | Sub | Total | |
| | | [dBm] | [dBm] | [mW] | [mW] | [mW] | [dBm] | [dB] | [dBm] | [dBm] | [dBm] | |
| long | 8 | -2.18 | -2.75 | 0.61 | 0.53 | 1.14 | 0.55 | 0.14 | - | - | 0.69 | |
| | 9 | -2.31 | -2.87 | 0.59 | 0.52 | 1.10 | 0.43 | 0.27 | - | - | 0.70 | |
| | 10 | -2.46 | -2.87 | 0.57 | 0.52 | 1.08 | 0.35 | 0.39 | - | - | 0.74 | |
| | 11 | -2.34 | -2.83 | 0.58 | 0.52 | 1.10 | 0.43 | 0.49 | - | - | 0.92 | *TX |
| | 12 | -2.59 | -2.99 | 0.55 | 0.50 | 1.05 | 0.22 | 0.65 | - | - | 0.87 | |
| | 13 | -4.26 | -4.70 | 0.37 | 0.34 | 0.71 | -1.46 | 0.82 | - | - | -0.64 | |
| | 14 | -5.95 | -6.33 | 0.25 | 0.23 | 0.49 | -3.13 | 0.89 | - | - | -2.24 | |
| | 15 | -6.89 | -7.27 | 0.20 | 0.19 | 0.39 | -4.07 | 0.95 | - | - | -3.12 | |
| short | 8 | -2.20 | -2.65 | 0.60 | 0.54 | 1.15 | 0.59 | 0.15 | - | - | 0.74 | |
| | 9 | -2.42 | -2.83 | 0.57 | 0.52 | 1.09 | 0.39 | 0.30 | - | - | 0.69 | |
| | 10 | -2.61 | -2.92 | 0.55 | 0.51 | 1.06 | 0.25 | 0.42 | - | - | 0.67 | |
| | 11 | -2.40 | -2.88 | 0.58 | 0.52 | 1.09 | 0.37 | 0.54 | - | - | 0.91 | |
| | 12 | -2.68 | -3.02 | 0.54 | 0.50 | 1.04 | 0.16 | 0.73 | - | - | 0.89 | |
| | 13 | -4.35 | -4.64 | 0.37 | 0.34 | 0.71 | -1.48 | 0.88 | - | - | -0.60 | |
| | 14 | -6.01 | -6.35 | 0.25 | 0.23 | 0.48 | -3.17 | 0.95 | - | - | -2.22 | |
| | 15 | -7.09 | -7.58 | 0.20 | 0.17 | 0.37 | -4.32 | 1.02 | - | - | -3.30 | |

^{*} Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

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

UL Japan, Inc. Shonan EMC Lab.

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

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Maximum Conducted Output Power

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 7, 2016
Temperature / Humidity 25 deg. C / 54 % RH
Engineer Hiroyuki Morikawa

Mode Tx

11n-40 (MIMO), 5190 MHz

| GI | MCS | | Re | ading (tin | ned avera | ge) | | Duty | В | urst pow | er | Remarks |
|-------|--------|-------|-------|------------|-----------|-------|-------|--------|-------|----------|-------|---------|
| | Number | | | Ante | enna | | | factor | | Antenna | | |
| | | Main | Sub | Main | Sub | Total | Total | | Main | Sub | Total | |
| | | [dBm] | [dBm] | [mW] | [mW] | [mW] | [dBm] | [dB] | [dBm] | [dBm] | [dBm] | |
| long | 8 | -4.95 | -6.50 | 0.32 | 0.22 | 0.54 | -2.65 | 0.14 | - | - | -2.51 | |
| | 9 | -5.14 | -6.61 | 0.31 | 0.22 | 0.52 | -2.80 | 0.27 | - | - | -2.53 | |
| | 10 | -5.16 | -6.65 | 0.30 | 0.22 | 0.52 | -2.83 | 0.39 | - | - | -2.44 | * TX |
| | 11 | -5.60 | -6.55 | 0.28 | 0.22 | 0.50 | -3.04 | 0.49 | - | - | -2.55 | |
| | 12 | -5.98 | -6.90 | 0.25 | 0.20 | 0.46 | -3.41 | 0.65 | - | - | -2.76 | |
| | 13 | -5.94 | -6.98 | 0.25 | 0.20 | 0.46 | -3.42 | 0.82 | - | - | -2.60 | |
| | 14 | -6.07 | -7.03 | 0.25 | 0.20 | 0.45 | -3.51 | 0.89 | - | - | -2.62 | |
| | 15 | -7.17 | -7.84 | 0.19 | 0.16 | 0.36 | -4.48 | 0.95 | - | - | -3.53 | |
| short | 8 | -5.04 | -6.54 | 0.31 | 0.22 | 0.54 | -2.72 | 0.15 | - | - | -2.57 | |
| | 9 | -5.22 | -6.69 | 0.30 | 0.21 | 0.51 | -2.88 | 0.30 | - | - | -2.58 | |
| | 10 | -5.53 | -6.84 | 0.28 | 0.21 | 0.49 | -3.13 | 0.42 | - | - | -2.71 | |
| | 11 | -5.71 | -6.84 | 0.27 | 0.21 | 0.48 | -3.23 | 0.54 | - | - | -2.69 | |
| | 12 | -6.04 | -6.92 | 0.25 | 0.20 | 0.45 | -3.45 | 0.73 | - | - | -2.72 | |
| | 13 | -5.98 | -7.05 | 0.25 | 0.20 | 0.45 | -3.47 | 0.88 | - | - | -2.59 | |
| | 14 | -6.27 | -7.12 | 0.24 | 0.19 | 0.43 | -3.66 | 0.95 | - | - | -2.71 | |
| | 15 | -7.20 | -7.92 | 0.19 | 0.16 | 0.35 | -4.53 | 1.02 | - | - | -3.51 | |

^{*} Worst rate

Sample Calculation:

Burst power = Reading (timed average) + Duty factor

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

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

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Average Output Power (Reference data for SAR testing)

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11a, 6 Mbps, Sub Antenna

| Tested | Power | Cable | Atten. | Re | sult |
|-----------|---------|-------|--------|--------|----------|
| Frequency | Meter | Loss | Loss | (Timed | average) |
| | Reading | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] |
| 5180 | -2.39 | 3.97 | 9.99 | 11.57 | 14.35 |
| 5220 | -1.75 | 3.98 | 9.99 | 12.22 | 16.67 |
| 5240 | -2.43 | 3.98 | 9.99 | 11.54 | 14.26 |
| 5260 | -0.83 | 3.98 | 10.00 | 13.15 | 20.65 |
| 5300 | -1.04 | 3.99 | 10.00 | 12.95 | 19.72 |
| 5320 | -0.63 | 3.99 | 10.00 | 13.36 | 21.68 |
| 5500 | -1.03 | 4.02 | 10.01 | 13.00 | 19.95 |
| 5580 | -0.96 | 4.06 | 10.00 | 13.10 | 20.42 |
| 5700 | -1.51 | 4.11 | 9.99 | 12.59 | 18.16 |
| 5745 | -1.20 | 4.13 | 9.99 | 12.92 | 19.59 |
| 5785 | -1.29 | 4.15 | 9.99 | 12.85 | 19.28 |
| 5825 | -1.63 | 4.17 | 9.98 | 12.52 | 17.86 |

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

11n-20 (SISO), MCS3 (GI long) Sub Antenna

| Tested | Power | Cable | Atten. | Re | sult |
|-----------|---------|-------|--------|--------|----------|
| Frequency | Meter | Loss | Loss | (Timed | average) |
| | Reading | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] |
| 5180 | -1.80 | 3.97 | 9.99 | 12.16 | 16.44 |
| 5220 | -1.80 | 3.98 | 9.99 | 12.17 | 16.48 |
| 5240 | -2.54 | 3.98 | 9.99 | 11.43 | 13.90 |
| 5260 | -2.19 | 3.98 | 10.00 | 11.79 | 15.10 |
| 5300 | -2.59 | 3.99 | 10.00 | 11.40 | 13.80 |
| 5320 | -2.52 | 3.99 | 10.00 | 11.47 | 14.03 |
| 5500 | -1.86 | 4.02 | 10.01 | 12.17 | 16.48 |
| 5580 | -2.02 | 4.06 | 10.00 | 12.04 | 16.00 |
| 5700 | -2.35 | 4.11 | 9.99 | 11.75 | 14.96 |
| 5745 | -1.55 | 4.13 | 9.99 | 12.57 | 18.07 |
| 5785 | -1.84 | 4.15 | 9.99 | 12.30 | 16.98 |
| 5825 | -2.22 | 4.17 | 9.98 | 11.93 | 15.60 |

Sample Calculation:

 $Result \ (Timed \ average) = Reading + Cable \ Loss \ (including \ the \ cable(s) \ customer \ supplied) + Atten. \ Loss$

The test was performed with condition that obtained the maximum frame power in pre-check.

UL Japan, Inc. Shonan EMC Lab.

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

^{*}The equipment and cables were not used for factor 0 dB of the data sheets.

^{*}The equipment and cables were not used for factor 0 dB of the data sheets.

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Average Output Power (Reference data for RF Exposure)

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (SISO), MCS0 (GI long), Main Antenna

| Tested | Power | Cable | Atten. | Re | sult |
|-----------|---------|-------|--------|--------|----------|
| Frequency | Meter | Loss | Loss | (Timed | average) |
| | Reading | | | | |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [mW] |
| 5190 | -4.97 | 3.97 | 9.99 | 8.99 | 7.93 |
| - | - | - | - | - | - |
| 5230 | -1.01 | 3.98 | 9.99 | 12.96 | 19.77 |
| 5270 | -1.20 | 3.98 | 10.00 | 12.78 | 18.97 |
| - | - | - | - | - | - |
| 5310 | -0.90 | 3.99 | 10.00 | 13.09 | 20.37 |
| 5510 | -2.40 | 4.02 | 10.01 | 11.63 | 14.55 |
| 5550 | -0.63 | 4.04 | 10.01 | 13.42 | 21.98 |
| 5670 | -1.37 | 4.10 | 10.00 | 12.73 | 18.75 |
| 5755 | -1.27 | 4.14 | 9.99 | 12.86 | 19.32 |
| - | - | - | - | - | - |
| 5795 | -1.19 | 4.16 | 9.99 | 12.96 | 19.77 |

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

11n-20 (MIMO), MCS8 (GI short)

| | , mic | | 1010) | | | | | | T | | | |
|-----------|----------|-------|--------|----------|----------|-------|--------|----------|---------|------------|-------------|-------|
| | Main Ant | tenna | | | Sub Ante | nna | | | Main+Su | ıb Antenn | ıa | |
| Tested | Power | Cable | Atten. | Result | Power | Cable | Atten. | Result | R | esult (Tin | ned average | (e) |
| Frequency | Meter | Loss | Loss | (Timed | Meter | Loss | Loss | (Timed | Ante | enna | | |
| | Reading | | | average) | Reading | | | average) | M ain | Sub | To | tal |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [mW] | [mW] | [dBm] |
| 5180 | -2.13 | 3.97 | 9.99 | 11.83 | -2.23 | 3.97 | 9.99 | 11.73 | 15.24 | 14.89 | 30.13 | 14.79 |
| 5220 | -2.20 | 3.98 | 9.99 | 11.77 | -2.65 | 3.98 | 9.99 | 11.32 | 15.03 | 13.55 | 28.58 | 14.56 |
| 5240 | -2.50 | 3.98 | 9.99 | 11.47 | -3.19 | 3.98 | 9.99 | 10.78 | 14.03 | 11.97 | 26.00 | 14.15 |
| 5260 | -1.26 | 3.98 | 10.00 | 12.72 | -2.50 | 3.98 | 10.00 | 11.48 | 18.71 | 14.06 | 32.77 | 15.15 |
| 5300 | -1.98 | 3.99 | 10.00 | 12.01 | -2.68 | 3.99 | 10.00 | 11.31 | 15.89 | 13.52 | 29.41 | 14.68 |
| 5320 | -1.95 | 3.99 | 10.00 | 12.04 | -2.48 | 3.99 | 10.00 | 11.51 | 16.00 | 14.16 | 30.15 | 14.79 |
| 5500 | -1.93 | 4.02 | 10.01 | 12.10 | -2.02 | 4.02 | 10.01 | 12.01 | 16.22 | 15.89 | 32.10 | 15.07 |
| 5580 | -1.89 | 4.06 | 10.00 | 12.17 | -2.39 | 4.06 | 10.00 | 11.67 | 16.48 | 14.69 | 31.17 | 14.94 |
| 5700 | -2.14 | 4.11 | 9.99 | 11.96 | -2.36 | 4.11 | 9.99 | 11.74 | 15.70 | 14.93 | 30.63 | 14.86 |
| 5745 | -0.39 | 4.13 | 9.99 | 13.73 | -0.80 | 4.13 | 9.99 | 13.32 | 23.60 | 21.48 | 45.08 | 16.54 |
| 5785 | -0.94 | 4.15 | 9.99 | 13.20 | -1.32 | 4.15 | 9.99 | 12.82 | 20.89 | 19.14 | 40.04 | 16.02 |
| 5825 | -1.09 | 4.17 | 9.98 | 13.06 | -1.66 | 4.17 | 9.98 | 12.49 | 20.23 | 17.74 | 37.97 | 15.79 |

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

The test was performed with condition that obtained the maximum frame power in pre-check.

UL Japan, Inc. Shonan EMC Lab.

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

^{*}The equipment and cables were not used for factor 0 dB of the data sheets.

^{*}The equipment and cables were not used for factor 0 dB of the data sheets.

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Average Output Power (Reference data for RF Exposure)

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (MIMO), MCS8 (GI long)

| | Main An | tenna | | | Sub Ante | nna | | | Main+Su | ıb Antenr | ıa | |
|-----------|---------|-------|--------|----------|----------|-------|--------|----------|---------|-------------|------------|-------|
| Tested | Power | Cable | Atten. | Result | Power | Cable | Atten. | Result | R | lesult (Tin | ned averag | e) |
| Frequency | Meter | Loss | Loss | (Timed | Meter | Loss | Loss | (Timed | Ant | enna | | |
| | Reading | | | average) | Reading | | | average) | M ain | Sub | To | otal |
| [MHz] | [dBm] | [dB] | [dB] | [dBm] | [dBm] | [dB] | [dB] | [dBm] | [mW] | [mW] | [mW] | [dBm] |
| 5190 | -4.95 | 3.97 | 9.99 | 9.01 | -6.50 | 3.97 | 9.99 | 7.46 | 7.96 | 5.57 | 13.53 | 11.31 |
| - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 5230 | -1.69 | 3.98 | 9.99 | 12.28 | -2.26 | 3.98 | 9.99 | 11.71 | 16.90 | 14.83 | 31.73 | 15.01 |
| 5270 | -1.63 | 3.98 | 10.00 | 12.35 | -2.50 | 3.98 | 10.00 | 11.48 | 17.18 | 14.06 | 31.24 | 14.95 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5310 | -1.55 | 3.99 | 10.00 | 12.44 | -2.29 | 3.99 | 10.00 | 11.70 | 17.54 | 14.79 | 32.33 | 15.10 |
| 5510 | -2.99 | 4.02 | 10.01 | 11.04 | -2.76 | 4.02 | 10.01 | 11.27 | 12.71 | 13.40 | 26.10 | 14.17 |
| 5550 | -0.95 | 4.04 | 10.01 | 13.10 | -1.64 | 4.04 | 10.01 | 12.41 | 20.42 | 17.42 | 37.84 | 15.78 |
| 5670 | -2.18 | 4.10 | 10.00 | 11.92 | -2.63 | 4.10 | 10.00 | 11.47 | 15.56 | 14.03 | 29.59 | 14.71 |
| 5755 | -0.90 | 4.14 | 9.99 | 13.23 | -1.76 | 4.14 | 9.99 | 12.37 | 21.04 | 17.26 | 38.30 | 15.83 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5795 | -1.06 | 4.16 | 9.99 | 13.09 | -2.12 | 4.16 | 9.99 | 12.03 | 20.37 | 15.96 | 36.33 | 15.60 |

Sample Calculation:

Result (Timed average) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

The test was performed with condition that obtained the maximum frame power in pre-check.

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

^{*}The equipment and cables were not used for factor 0 dB of the data sheets.

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Burst rate confirmation

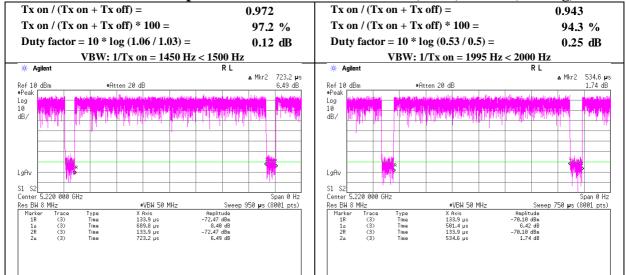
Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 7, 2016
Temperature / Humidity 25 deg. C / 54 % RH
Engineer Hiroyuki Morikawa

Mode Tx

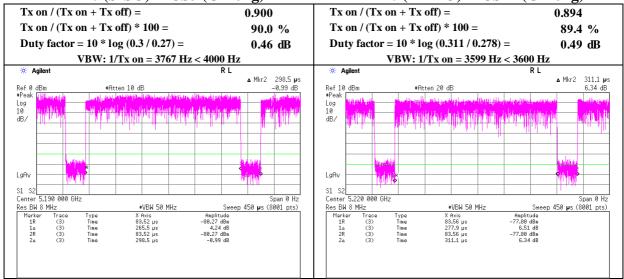
11a 18Mbps

11n-20 (SISO) MCS0 (GI long)



11n-40 (SISO) MCS3 (GI long)

11n-20 (MIMO) MCS11 (GI long)



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

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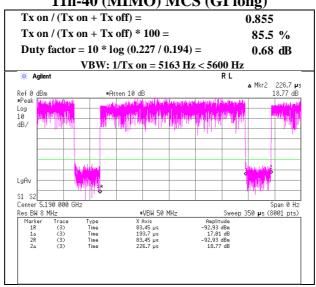
Burst rate confirmation

Test place Shonan EMC Lab. No.5 Shielded Room

11253018S-B-R1 Report No. Date July 7, 2016 Temperature / Humidity 25 deg. C / 54 % RH Engineer Hiroyuki Morikawa

Mode Tx

11n-40 (MIMO) MCS (GI long)



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

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 : November 7, 2016

 FCC ID
 : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11a, Sub Antenna

Applied limit: 15.407, mobile and portable client device

| IIu, Dubii | | | | | | | I I | | , | · · · · · · · · · · · · · · · · · | | |
|------------|---------|-------|--------|--------|---------|------------|--------|-----------|---------|-----------------------------------|-------------|---------|
| Tested | PSD | Cable | Atten. | Duty | Antenna | RBW | PSI | O (Conduc | ted) | P | SD (e.i.r.p | .) |
| Frequency | Reading | Loss | Loss | Factor | Gain | Correction | Result | Limit | M argin | Result | Limit | M argin |
| | [dBm | | | | | Factor | [dBm | [dBm | | [dBm | [dBm | |
| [MHz] | /MHz] | [dB] | [dB] | [dB] | [dBi] | [dB] | /MHz] | /MHz] | [dB] | /MHz] | /MHz] | [dB] |
| 5180 | -12.17 | 3.97 | 9.99 | 0.18 | -1.61 | 0.00 | 1.97 | 11.00 | 9.03 | 0.36 | 17.00 | 16.64 |
| 5220 | -12.44 | 3.98 | 9.99 | 0.18 | -1.70 | 0.00 | 1.71 | 11.00 | 9.29 | 0.00 | 17.00 | 17.00 |
| 5240 | -13.43 | 3.98 | 9.99 | 0.18 | -1.75 | 0.00 | 0.72 | 11.00 | 10.28 | -1.02 | 17.00 | 18.02 |
| 5260 | -12.70 | 3.98 | 10.00 | 0.18 | -1.79 | 0.00 | 1.46 | 11.00 | 9.54 | -0.33 | 17.00 | 17.33 |
| 5300 | -13.04 | 3.99 | 10.00 | 0.18 | -1.89 | 0.00 | 1.13 | 11.00 | 9.87 | -0.75 | 17.00 | 17.76 |
| 5320 | -12.85 | 3.99 | 10.00 | 0.18 | -1.93 | 0.00 | 1.32 | 11.00 | 9.68 | -0.61 | 17.00 | 17.61 |
| 5500 | -12.01 | 4.02 | 10.01 | 0.18 | -2.34 | 0.00 | 2.20 | 11.00 | 8.80 | -0.14 | 17.00 | 17.14 |
| 5580 | -12.05 | 4.06 | 10.00 | 0.18 | -2.50 | 0.00 | 2.19 | 11.00 | 8.81 | -0.30 | 17.00 | 17.30 |
| 5700 | -12.30 | 4.11 | 9.99 | 0.18 | -2.73 | 0.00 | 1.98 | 11.00 | 9.02 | -0.75 | 17.00 | 17.75 |
| 5745 | -21.17 | 4.13 | 9.99 | 0.18 | -2.71 | 6.99 | 0.12 | 30.00 | 29.88 | -2.59 | 36.00 | 38.59 |
| 5785 | -21.56 | 4.15 | 9.99 | 0.18 | -2.57 | 6.99 | -0.25 | 30.00 | 30.25 | -2.82 | 36.00 | 38.82 |
| 5825 | -22.26 | 4.17 | 9.98 | 0.18 | -2.43 | 6.99 | -0.94 | 30.00 | 30.94 | -3.37 | 36.00 | 39.37 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

 $PSD\ Result\ (Conducted) = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss\ + Duty\ Factor\ + RBW\ Correction\ Factor\ + Cable\ Loss\ + Duty\ Factor\ + Cable\ + Duty\ Factor\ + Dut$

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

UL Japan, Inc. Shonan EMC Lab.

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

 Test report No.
 : 11253018S-B-R1

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 Issued date
 : November 7, 2016

 FCC ID
 : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-20 (SISO), Sub Antenna

Applied limit: 15.407, mobile and portable client device

| - (| - // | | | | | | 1.1 | | | | | |
|-----------|---------|-------|--------|--------|---------|------------|--------|-----------|---------|--------|-------------|---------|
| Tested | PSD | Cable | Atten. | Duty | Antenna | RBW | PSI |) (Conduc | ted) | P | SD (e.i.r.p | .) |
| Frequency | Reading | Loss | Loss | Factor | Gain | Correction | Result | Limit | M argin | Result | Limit | M argin |
| | [dBm | | | | | Factor | [dBm | [dBm | | [dBm | [dBm | |
| [MHz] | /MHz] | [dB] | [dB] | [dB] | [dBi] | [dB] | /MHz] | /MHz] | [dB] | /MHz] | /MHz] | [dB] |
| 5180 | -12.51 | 3.97 | 9.99 | 0.25 | -1.61 | 0.00 | 1.71 | 11.00 | 9.30 | 0.10 | 17.00 | 16.90 |
| 5220 | -12.81 | 3.98 | 9.99 | 0.25 | -1.70 | 0.00 | 1.42 | 11.00 | 9.59 | -0.29 | 17.00 | 17.29 |
| 5240 | -13.35 | 3.98 | 9.99 | 0.25 | -1.75 | 0.00 | 0.87 | 11.00 | 10.13 | -0.88 | 17.00 | 17.88 |
| 5260 | -13.01 | 3.98 | 10.00 | 0.25 | -1.79 | 0.00 | 1.22 | 11.00 | 9.78 | -0.57 | 17.00 | 17.57 |
| 5300 | -13.75 | 3.99 | 10.00 | 0.25 | -1.89 | 0.00 | 0.49 | 11.00 | 10.51 | -1.40 | 17.00 | 18.40 |
| 5320 | -13.44 | 3.99 | 10.00 | 0.25 | -1.93 | 0.00 | 0.80 | 11.00 | 10.20 | -1.13 | 17.00 | 18.13 |
| 5500 | -12.08 | 4.02 | 10.01 | 0.25 | -2.34 | 0.00 | 2.20 | 11.00 | 8.80 | -0.14 | 17.00 | 17.14 |
| 5580 | -11.97 | 4.06 | 10.00 | 0.25 | -2.50 | 0.00 | 2.34 | 11.00 | 8.66 | -0.15 | 17.00 | 17.15 |
| 5700 | -12.69 | 4.11 | 9.99 | 0.25 | -2.73 | 0.00 | 1.66 | 11.00 | 9.34 | -1.07 | 17.00 | 18.07 |
| 5745 | -21.39 | 4.13 | 9.99 | 0.25 | -2.71 | 6.99 | -0.03 | 30.00 | 30.03 | -2.74 | 36.00 | 38.74 |
| 5785 | -21.80 | 4.15 | 9.99 | 0.25 | -2.57 | 6.99 | -0.42 | 30.00 | 30.42 | -2.99 | 36.00 | 38.99 |
| 5825 | -21.89 | 4.17 | 9.98 | 0.25 | -2.43 | 6.99 | -0.50 | 30.00 | 30.50 | -2.93 | 36.00 | 38.93 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

 $PSD\ Result\ (Conducted) = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss\ + Duty\ Factor\ + RBW\ Correction\ Factor\ + Cable\ Loss\ + Duty\ Factor\ + Cable\ + Duty\ Factor\ + Cable\ Loss\ + Duty\ Factor\ + Duty\ Factor\ + Cable\ Loss\ + Duty\ Factor\ +$

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

UL Japan, Inc. Shonan EMC Lab.

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

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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (SISO), Main Antenna

Applied limit: 15.407, mobile and portable client device

| 1111-40 (512 | , 0 ,, 111111 | 1 111111111111 | • | | | | P | p | 10, 11 | ioone una p | | 0111 00 1100 |
|--------------|---------------|----------------|--------|--------|---------|------------|--------|-----------|---------|-------------|-------------|--------------|
| Tested | PSD | Cable | Atten. | Duty | Antenna | RBW | PSI | O (Conduc | ted) | P | SD (e.i.r.p | .) |
| Frequency | Reading | Loss | Loss | Factor | Gain | Correction | Result | Limit | M argin | Result | Limit | M argin |
| | [dBm | | | | | Factor | [dBm | [dBm | | [dBm | [dBm | |
| [MHz] | /MHz] | [dB] | [dB] | [dB] | [dBi] | [dB] | /MHz] | /MHz] | [dB] | /MHz] | /MHz] | [dB] |
| 5190 | -19.81 | 3.97 | 9.99 | 0.46 | -2.26 | 0.00 | -5.39 | 11.00 | 16.39 | -7.65 | 17.00 | 24.65 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5230 | -15.30 | 3.98 | 9.99 | 0.46 | -1.94 | 0.00 | -0.87 | 11.00 | 11.87 | -2.81 | 17.00 | 19.81 |
| 5270 | -15.19 | 3.98 | 10.00 | 0.46 | -1.62 | 0.00 | -0.75 | 11.00 | 11.75 | -2.37 | 17.00 | 19.37 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5310 | -14.99 | 3.99 | 10.00 | 0.46 | -1.30 | 0.00 | -0.54 | 11.00 | 11.54 | -1.84 | 17.00 | 18.84 |
| 5510 | -16.45 | 4.02 | 10.01 | 0.46 | -2.48 | 0.00 | -1.96 | 11.00 | 12.96 | -4.44 | 17.00 | 21.44 |
| 5550 | -14.99 | 4.04 | 10.01 | 0.46 | -2.54 | 0.00 | -0.48 | 11.00 | 11.48 | -3.02 | 17.00 | 20.02 |
| 5670 | -15.14 | 4.10 | 10.00 | 0.46 | -2.73 | 0.00 | -0.58 | 11.00 | 11.58 | -3.31 | 17.00 | 20.31 |
| 5755 | -23.54 | 4.14 | 9.99 | 0.46 | -2.60 | 6.99 | -1.96 | 30.00 | 31.96 | -4.56 | 36.00 | 40.56 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5795 | -24.34 | 4.16 | 9.99 | 0.46 | -2.33 | 6.99 | -2.74 | 30.00 | 32.74 | -5.07 | 36.00 | 41.07 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

 $PSD\ Result\ (Conducted) = Reading + Cable\ Loss\ (including\ the\ cable(s)\ customer\ supplied) + Atten.\ Loss\ + Duty\ Factor\ + RBW\ Correction\ Factor\ + Cable\ Loss\ + Duty\ Factor\ + Cable\ + Duty\ Factor\ + Dut$

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

UL Japan, Inc. Shonan EMC Lab.

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

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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-20 (MIMO), Main+Sub Antenna

Applied limit: 15.407, mobile and portable client device

| 11II-20 (MI | 1 110), 1 11 a | штопра | пиша | | | PSD (e.i.r.p.) | | | | | cirt de vice | |
|-------------|-------------------------------|----------|----------|-----------|-----------|----------------|----------|----------|----------|-----------|--------------|---------|
| Tested | | | PSD (Co | nducted) | | | | | PSD (| e.i.r.p.) | | |
| Frequency | | Antenna | | Result | Limit | M argin | | Antenna | | Result | Limit | M argin |
| | M ain | Sub | Total | | | | M ain | Sub | Total | | | |
| [MHz] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] |
| 5180 | 0.94 | 1.28 | 2.22 | 3.46 | 11.00 | 7.54 | 0.55 | 0.88 | 1.43 | 1.55 | 17.00 | 15.45 |
| 5220 | 1.45 | 1.23 | 2.68 | 4.28 | 11.00 | 6.72 | 0.91 | 0.83 | 1.74 | 2.41 | 17.00 | 14.59 |
| 5240 | 1.33 | 1.01 | 2.34 | 3.70 | 11.00 | 7.30 | 0.87 | 0.68 | 1.55 | 1.89 | 17.00 | 15.11 |
| 5260 | 1.91 | 1.23 | 3.14 | 4.96 | 11.00 | 6.04 | 1.29 | 0.81 | 2.10 | 3.23 | 17.00 | 13.77 |
| 5300 | 1.58 | 1.26 | 2.84 | 4.54 | 11.00 | 6.46 | 1.15 | 0.82 | 1.97 | 2.94 | 17.00 | 14.06 |
| 5320 | 1.46 | 1.39 | 2.85 | 4.55 | 11.00 | 6.45 | 1.10 | 0.89 | 1.99 | 2.99 | 17.00 | 14.01 |
| 5500 | 1.94 | 2.21 | 4.15 | 6.18 | 11.00 | 4.82 | 1.10 | 1.29 | 2.39 | 3.78 | 17.00 | 13.22 |
| 5580 | 1.76 | 1.54 | 3.30 | 5.18 | 11.00 | 5.82 | 0.97 | 0.87 | 1.84 | 2.64 | 17.00 | 14.36 |
| 5700 | 1.63 | 1.74 | 3.37 | 5.27 | 11.00 | 5.73 | 0.86 | 0.93 | 1.79 | 2.52 | 17.00 | 14.48 |
| 5745 | 1.58 | 1.65 | 3.23 | 5.09 | 30.00 | 24.91 | 0.85 | 0.89 | 1.74 | 2.40 | 36.00 | 33.60 |
| 5785 | 1.60 | 1.44 | 3.04 | 4.82 | 30.00 | 25.18 | 0.92 | 0.79 | 1.72 | 2.34 | 36.00 | 33.66 |
| 5825 | 1.71 | 1.38 | 3.09 | 4.90 | 30.00 | 25.10 | 1.05 | 0.79 | 1.84 | 2.64 | 36.00 | 33.36 |

| | | | Main An | tenna | | | | | Sub Ante | nna | | | | |
|-----------|--------|------------|-----------|-------|--------|---------|-----------|-----------|-----------|-------|--------|---------|-----------|-----------|
| Tested | Duty | RBW | PSD | Cable | Atten. | Antenna | PSD 1 | Result | PSD | Cable | Atten. | Antenna | PSD | Result |
| Frequency | Factor | Correction | Reading | Loss | Loss | Gain | Cond. | e.i.r.p. | Reading | Loss | Loss | Gain | Cond. | e.i.r.p. |
| | | Factor | | | | | | | | | | | | |
| [MHz] | [dB] | [dB] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5180 | 0.49 | 0.00 | -14.73 | 3.97 | 9.99 | -2.34 | -0.28 | -2.62 | -13.38 | 3.97 | 9.99 | -1.61 | 1.07 | -0.54 |
| 5220 | 0.49 | 0.00 | -12.84 | 3.98 | 9.99 | -2.02 | 1.62 | -0.40 | -13.57 | 3.98 | 9.99 | -1.70 | 0.89 | -0.81 |
| 5240 | 0.49 | 0.00 | -13.22 | 3.98 | 9.99 | -1.86 | 1.24 | -0.62 | -14.40 | 3.98 | 9.99 | -1.75 | 0.06 | -1.69 |
| 5260 | 0.49 | 0.00 | -11.67 | 3.98 | 10.00 | -1.70 | 2.80 | 1.10 | -13.57 | 3.98 | 10.00 | -1.79 | 0.90 | -0.89 |
| 5300 | 0.49 | 0.00 | -12.49 | 3.99 | 10.00 | -1.38 | 1.99 | 0.61 | -13.47 | 3.99 | 10.00 | -1.89 | 1.01 | -0.88 |
| 5320 | 0.49 | 0.00 | -12.84 | 3.99 | 10.00 | -1.22 | 1.64 | 0.42 | -13.05 | 3.99 | 10.00 | -1.93 | 1.43 | -0.50 |
| 5500 | 0.49 | 0.00 | -11.64 | 4.02 | 10.01 | -2.47 | 2.88 | 0.41 | -11.08 | 4.02 | 10.01 | -2.34 | 3.44 | 1.10 |
| 5580 | 0.49 | 0.00 | -12.10 | 4.06 | 10.00 | -2.59 | 2.45 | -0.14 | -12.67 | 4.06 | 10.00 | -2.50 | 1.88 | -0.62 |
| 5700 | 0.49 | 0.00 | -12.47 | 4.11 | 9.99 | -2.77 | 2.12 | -0.65 | -12.19 | 4.11 | 9.99 | -2.73 | 2.40 | -0.33 |
| 5745 | 0.49 | 6.99 | -19.62 | 4.13 | 9.99 | -2.67 | 1.98 | -0.69 | -19.42 | 4.13 | 9.99 | -2.71 | 2.18 | -0.53 |
| 5785 | 0.49 | 6.99 | -19.58 | 4.15 | 9.99 | -2.40 | 2.04 | -0.36 | -20.05 | 4.15 | 9.99 | -2.57 | 1.57 | -1.00 |
| 5825 | 0.49 | 6.99 | -19.31 | 4.17 | 9.98 | -2.12 | 2.32 | 0.20 | -20.22 | 4.17 | 9.98 | -2.43 | 1.41 | -1.02 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

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

Test report No. : 11253018S-B-R1
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (MIMO), Main+Sub Antenna

Applied limit: 15.407, mobile and portable client device

| 1111-40 (1411 | 1110), 111a | III TO UU A | пиша | | | | repplied lillite. 15.407, illoone and portable cheft device | | | | | |
|---------------|-------------|-------------|----------|-----------|-----------|---------|---|----------|----------|-----------|-----------|---------|
| Tested | | | PSD (Co | onducted) | | | | | PSD (| e.i.r.p.) | | |
| Frequency | | Antenna | | Result | Limit | M argin | | Antenna | | Result | Limit | M argin |
| | M ain | Sub | Total | | | | M ain | Sub | Total | | | |
| [MHz] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] |
| 5190 | 0.35 | 0.27 | 0.62 | -2.07 | 11.00 | 13.07 | 0.21 | 0.19 | 0.39 | -4.04 | 17.00 | 21.04 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5230 | 0.80 | 0.96 | 1.76 | 2.46 | 11.00 | 8.54 | 0.51 | 0.64 | 1.16 | 0.64 | 17.00 | 16.36 |
| 5270 | 0.77 | 0.61 | 1.38 | 1.39 | 11.00 | 9.61 | 0.53 | 0.40 | 0.93 | -0.32 | 17.00 | 17.32 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5310 | 0.73 | 0.65 | 1.38 | 1.38 | 11.00 | 9.62 | 0.54 | 0.42 | 0.96 | -0.19 | 17.00 | 17.19 |
| 5510 | 0.63 | 0.86 | 1.49 | 1.72 | 11.00 | 9.28 | 0.35 | 0.50 | 0.85 | -0.68 | 17.00 | 17.68 |
| 5550 | 0.99 | 1.08 | 2.06 | 3.14 | 11.00 | 7.86 | 0.55 | 0.61 | 1.16 | 0.66 | 17.00 | 16.34 |
| 5670 | 0.90 | 0.86 | 1.75 | 2.44 | 11.00 | 8.56 | 0.48 | 0.46 | 0.94 | -0.26 | 17.00 | 17.26 |
| 5755 | 0.97 | 0.69 | 1.66 | 2.20 | 30.00 | 27.80 | 0.53 | 0.37 | 0.90 | -0.44 | 36.00 | 36.44 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5795 | 0.78 | 0.92 | 1.70 | 2.30 | 30.00 | 27.70 | 0.46 | 0.51 | 0.97 | -0.14 | 36.00 | 36.14 |

| | | | Main An | tenna | | | | | Sub Ante | enna | | | | |
|-----------|--------|------------|-----------|-------|--------|---------|-----------|-----------|-----------|-------|--------|---------|-----------|-----------|
| Tested | Duty | RBW | PSD | Cable | Atten. | Antenna | PSD 1 | Result | PSD | Cable | Atten. | Antenna | PSD | Result |
| Frequency | Factor | Correction | Reading | Loss | Loss | Gain | Cond. | e.i.r.p. | Reading | Loss | Loss | Gain | Cond. | e.i.r.p. |
| | | Factor | | | | | | | | | | | | |
| [MHz] | [dB] | [dB] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5190 | 0.68 | 0.00 | -19.18 | 3.97 | 9.99 | -2.26 | -4.54 | -6.80 | -20.33 | 3.97 | 9.99 | -1.63 | -5.69 | -7.32 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5230 | 0.68 | 0.00 | -15.60 | 3.98 | 9.99 | -1.94 | -0.95 | -2.89 | -14.84 | 3.98 | 9.99 | -1.72 | -0.19 | -1.91 |
| 5270 | 0.68 | 0.00 | -15.79 | 3.98 | 10.00 | -1.62 | -1.13 | -2.75 | -16.84 | 3.98 | 10.00 | -1.82 | -2.18 | -4.00 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5310 | 0.68 | 0.00 | -16.04 | 3.99 | 10.00 | -1.30 | -1.37 | -2.67 | -16.57 | 3.99 | 10.00 | -1.91 | -1.90 | -3.81 |
| 5510 | 0.68 | 0.00 | -16.74 | 4.02 | 10.01 | -2.48 | -2.03 | -4.51 | -15.36 | 4.02 | 10.01 | -2.36 | -0.65 | -3.01 |
| 5550 | 0.68 | 0.00 | -14.79 | 4.04 | 10.01 | -2.54 | -0.06 | -2.60 | -14.41 | 4.04 | 10.01 | -2.44 | 0.32 | -2.12 |
| 5670 | 0.68 | 0.00 | -15.25 | 4.10 | 10.00 | -2.73 | -0.47 | -3.20 | -15.45 | 4.10 | 10.00 | -2.67 | -0.67 | -3.34 |
| 5755 | 0.68 | 6.99 | -21.94 | 4.14 | 9.99 | -2.60 | -0.14 | -2.74 | -23.41 | 4.14 | 9.99 | -2.67 | -1.61 | -4.28 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5795 | 0.68 | 6.99 | -22.90 | 4.16 | 9.99 | -2.33 | -1.08 | -3.41 | -22.19 | 4.16 | 9.99 | -2.53 | -0.37 | -2.90 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (W52 for FCC)

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

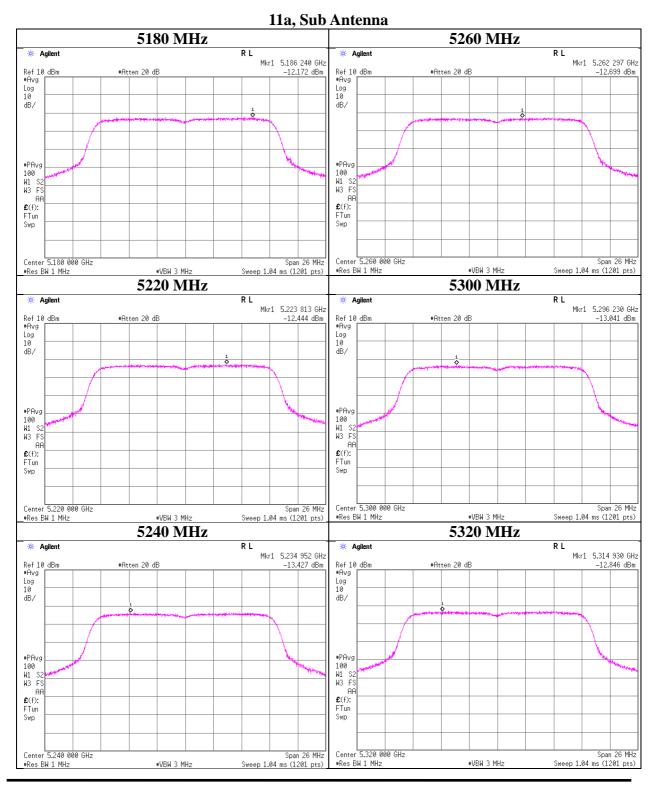
Test report No. : 11253018S-B-R1
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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

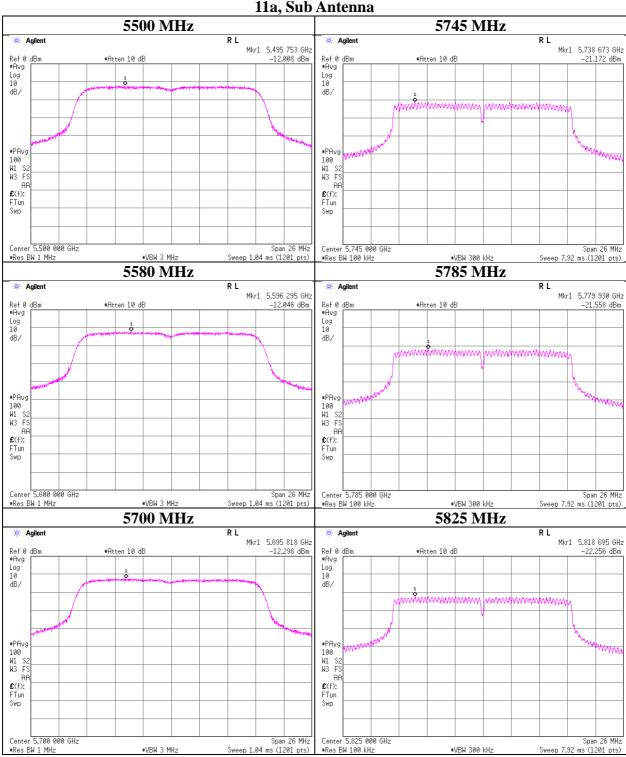
: 11253018S-B-R1 Test report No. Page : 58 of 120 Issued date : November 7, 2016 : YR7SKR3000P6 FCC ID

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1 Date July 11, 2016 Temperature / Humidity 23 deg. C / 45 % RH Yosuke Ishikawa Engineer

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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

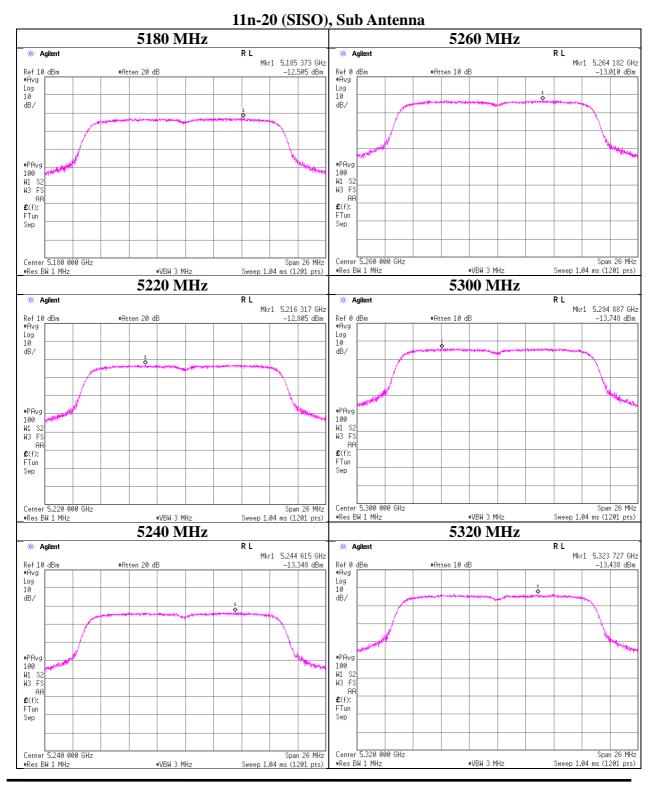
Test report No. : 11253018S-B-R1
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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

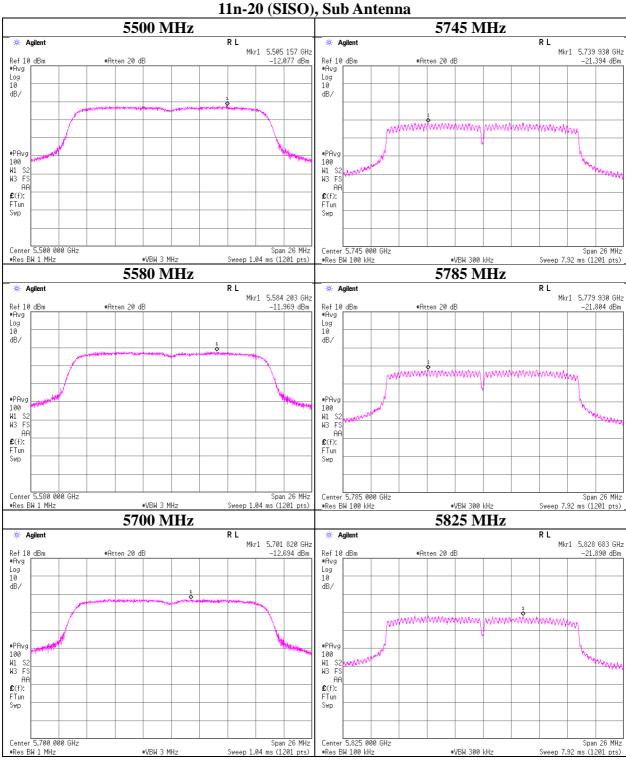
: 11253018S-B-R1 Test report No. Page : 60 of 120 Issued date : November 7, 2016 : YR7SKR3000P6 FCC ID

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1 Date July 11, 2016 Temperature / Humidity 23 deg. C / 45 % RH Yosuke Ishikawa Engineer

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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FCC ID : YR7SKR3000P6

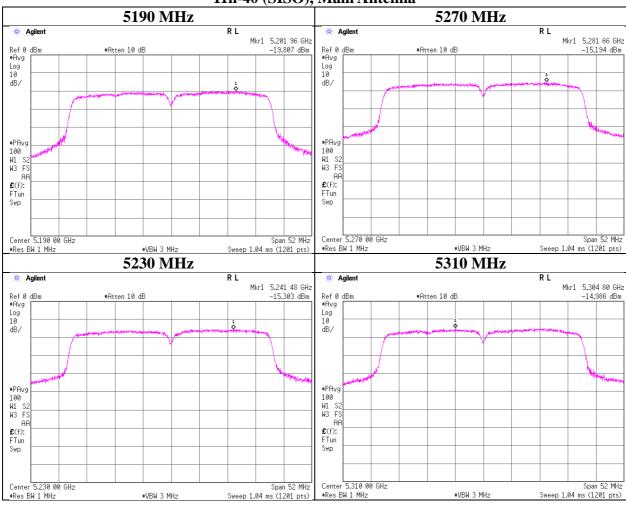
Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (SISO), Main Antenna



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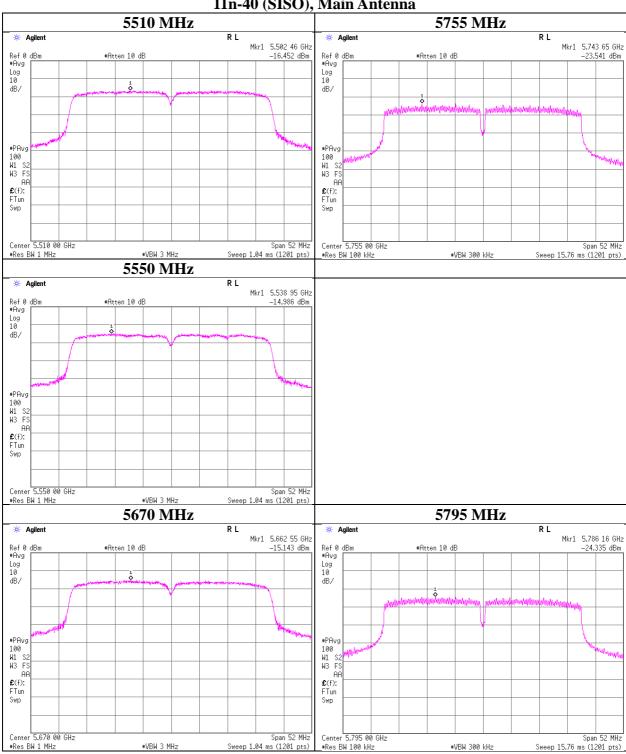
Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1 Date July 11, 2016 Temperature / Humidity 23 deg. C / 45 % RH Yosuke Ishikawa Engineer

Mode Tx

11n-40 (SISO), Main Antenna



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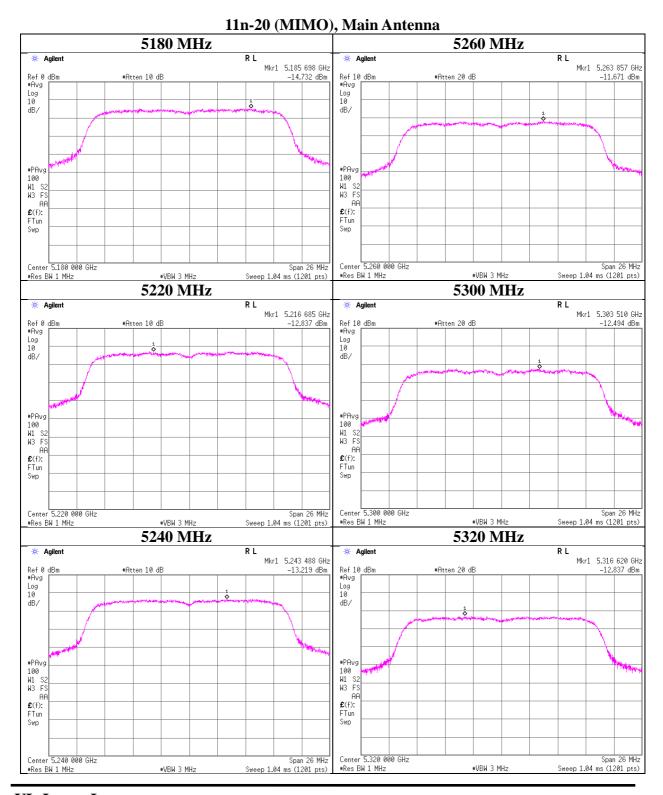
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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

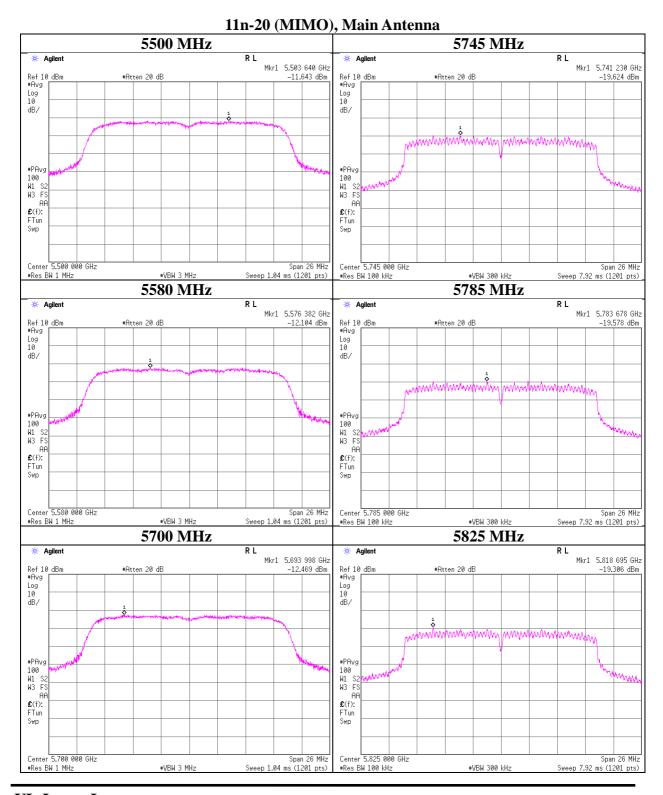
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Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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

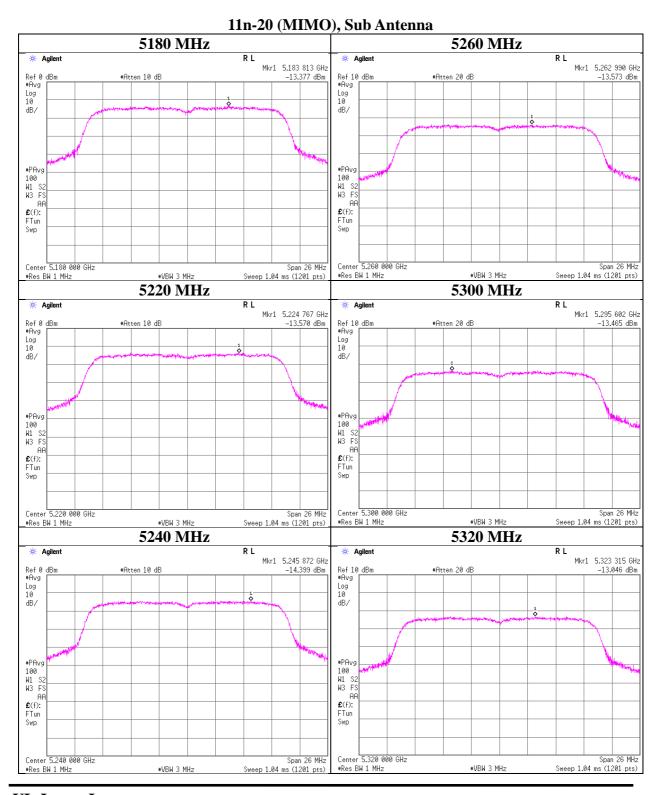
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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

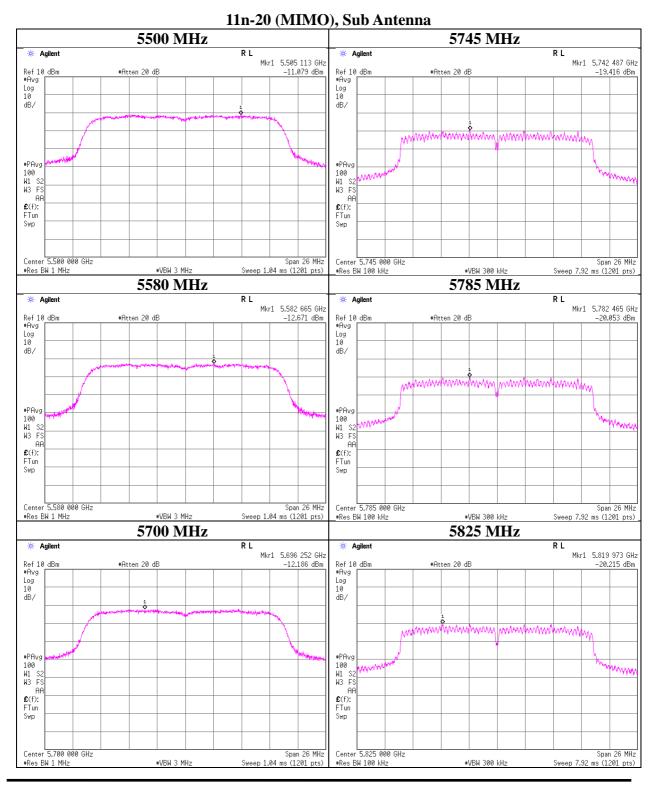
Test report No. : 11253018S-B-R1
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx



UL Japan, Inc. Shonan EMC Lab.

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Test report No. : 11253018S-B-R1
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FCC ID : YR7SKR3000P6

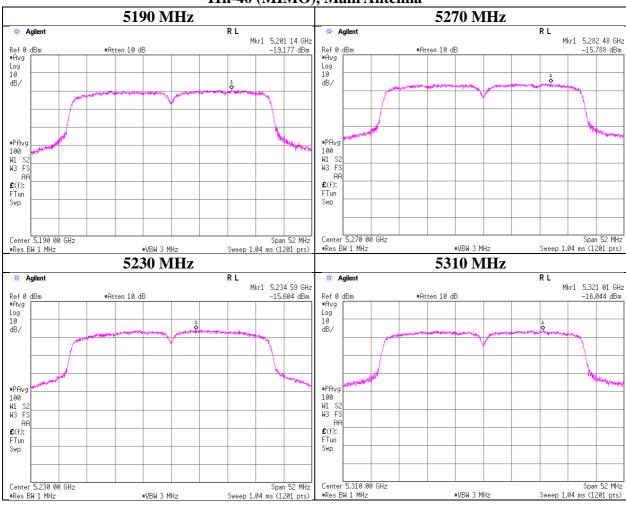
Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (MIMO), Main Antenna



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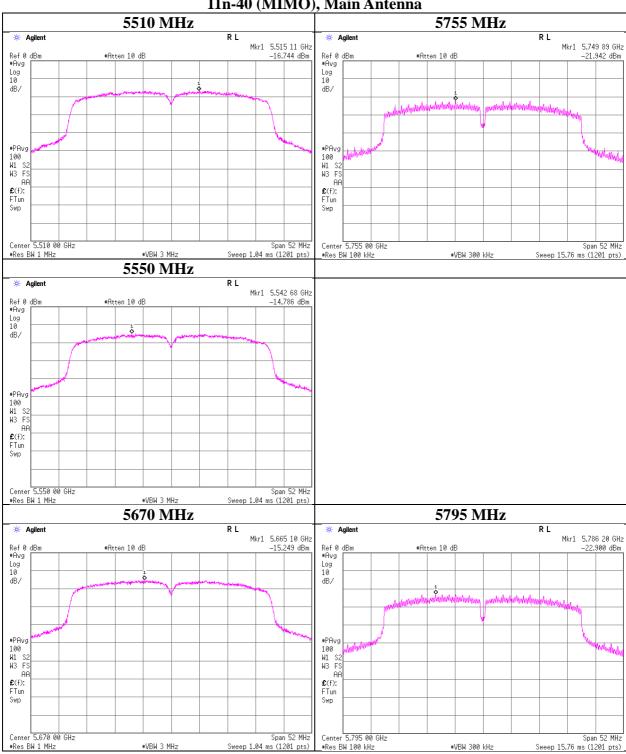
Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1 Date July 11, 2016 Temperature / Humidity 23 deg. C / 45 % RH Yosuke Ishikawa Engineer

Mode Tx

11n-40 (MIMO), Main Antenna



UL Japan, Inc. Shonan EMC Lab.

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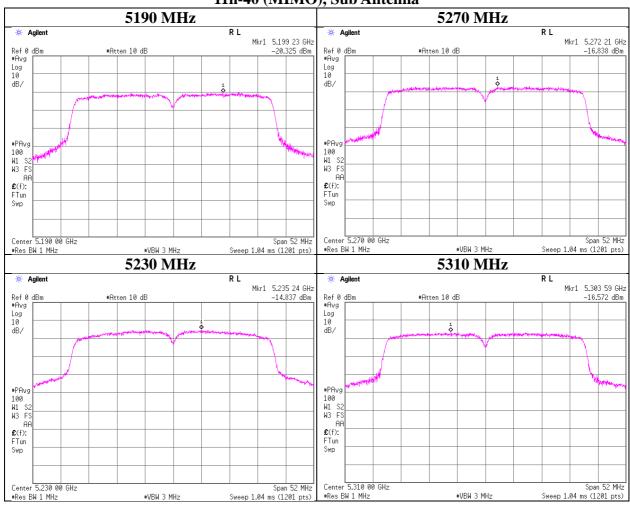
Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx

11n-40 (MIMO), Sub Antenna



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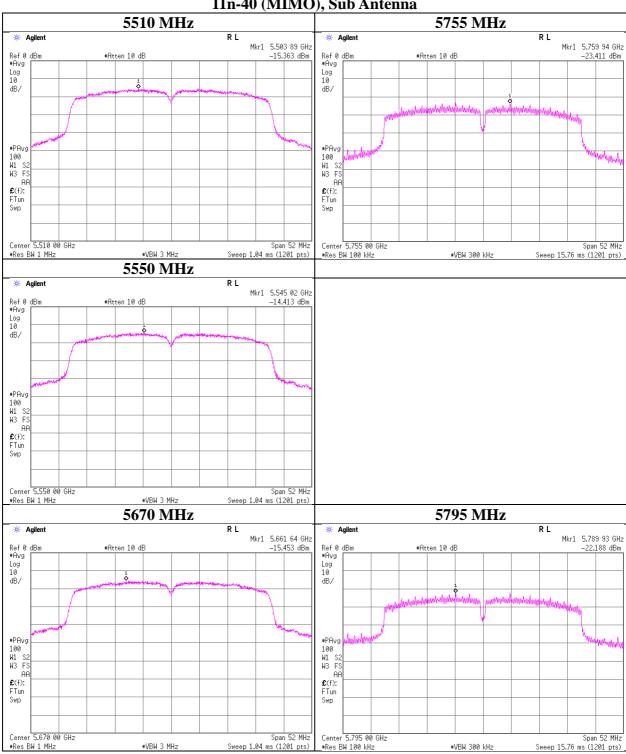
Maximum Power Spectral Density

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1 Date July 11, 2016 Temperature / Humidity 23 deg. C / 45 % RH Yosuke Ishikawa Engineer

Mode Tx

11n-40 (MIMO), Sub Antenna



UL Japan, Inc. Shonan EMC Lab.

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Test report No. : 11253018S-B-R1 Page : 71 of 120 : November 7, 2016 **Issued date** FCC ID : YR7SKR3000P6

Radiated Spurious Emission

| Report No. | 11253018S-B-R1 | | | | | | | | |
|---------------------|-----------------|------------------|------------------|------------------|------------------|--|--|--|--|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 | | | | |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 | | | | |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / | | | | |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH | | | | |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke | | | | |
| | Ishikawa | Takano | Takano | Takano | Ishikawa | | | | |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – | | | | |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz | | | | |
| Mode | Tx 11a 5180 MHz | | | | | | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| | | | , | Q1 : Quasi 1 cu | , | | | | | | | | |
|----------|-----------|----------|---------|-----------------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5150.000 | PK | 47.10 | 32.04 | 15.63 | 41.02 | 1.83 | 55.58 | 73.90 | 18.3 | 112 | 214 | |
| Hori. | 6906.653 | PK | 51.51 | 36.22 | 6.86 | 40.88 | 1.83 | 55.54 | 73.90 | 18.3 | 157 | 107 | |
| Hori. | 10360.000 | PK | 46.74 | 39.15 | 8.00 | 40.37 | 1.83 | 55.35 | 73.90 | 18.5 | 150 | 0 | |
| Hori. | 15540.000 | PK | 45.41 | 40.44 | 10.48 | 40.23 | -9.54 | 46.56 | 73.90 | 27.3 | 150 | 0 | |
| Hori. | 5150.000 | ΑV | 35.65 | 32.04 | 15.63 | 41.02 | 1.83 | 44.13 | 53.90 | 9.8 | 112 | 214 | VBW:1.5 kHz |
| Hori. | 6906.653 | ΑV | 45.59 | 36.22 | 6.86 | 40.88 | 1.83 | 49.62 | 53.90 | 4.2 | 157 | 107 | VBW:1.5 kHz |
| Hori. | 10360.000 | AV | 35.52 | 39.15 | 8.00 | 40.37 | 1.83 | 44.13 | 53.90 | 9.7 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 15540.000 | AV | 36.60 | 40.44 | 10.48 | 40.23 | -9.54 | 37.75 | 53.90 | 16.1 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 5150.000 | PK | 47.76 | 32.04 | 15.63 | 41.02 | 1.83 | 56.24 | 73.90 | 17.7 | 133 | 294 | |
| Vert. | 6906.649 | PK | 51.56 | 36.22 | 6.86 | 40.88 | 1.83 | 55.59 | 73.90 | 18.3 | 100 | 86 | |
| Vert. | 10360.000 | PK | 45.56 | 39.15 | 8.00 | 40.37 | 1.83 | 54.17 | 73.90 | 19.7 | 150 | 0 | |
| Vert. | 15540.000 | PK | 44.81 | 40.44 | 10.48 | 40.23 | -9.54 | 45.96 | 73.90 | 27.9 | 150 | 0 | |
| Vert. | 5150.000 | AV | 36.04 | 32.04 | 15.63 | 41.02 | 1.83 | 44.52 | 53.90 | 9.4 | 133 | 294 | VBW:1.5 kHz |
| Vert. | 6906.649 | AV | 45.31 | 36.22 | 6.86 | 40.88 | 1.83 | 49.34 | 53.90 | 4.5 | 100 | 86 | VBW:1.5 kHz |
| Vert. | 10360.000 | AV | 35.90 | 39.15 | 8.00 | 40.37 | 1.83 | 44.51 | 53.90 | 9.3 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 15540.000 | AV | 36.80 | 40.44 | 10.48 | 40.23 | -9.54 | 37.95 | 53.90 | 15.9 | 150 | 0 | VBW:1.5 kHz |

Result [dBuVm] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor *Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

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

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ 13 GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

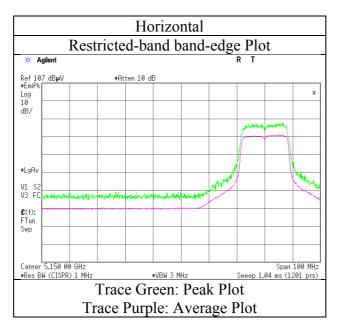
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FCC ID : YR7SKR3000P6

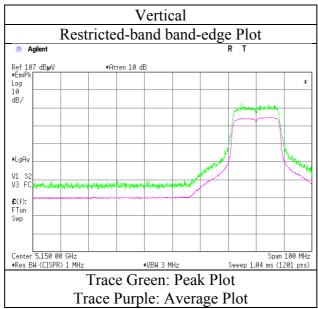
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11a 5180 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Test report No. : 11253018S-B-R1 Page : 73 of 120 **Issued date** : November 7, 2016 FCC ID : YR7SKR3000P6

Radiated Spurious Emission

| Report No. | 11253018S-B-R | 11 | | | |
|---------------------|---------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11a 5240 M | Hz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 6986.638 | PK | 49.76 | 36.46 | 6.87 | 40.91 | 1.83 | 54.01 | 73.90 | 19.8 | 155 | 105 | |
| Hori. | 10480.000 | PK | 45.93 | 39.48 | 7.97 | 40.40 | 1.83 | 54.81 | 73.90 | 19.0 | 150 | 0 | |
| Hori. | 15720.000 | PK | 43.56 | 40.04 | 10.53 | 40.09 | -9.54 | 44.50 | 73.90 | 29.4 | 150 | 0 | |
| Hori. | 6986.638 | AV | 42.14 | 36.46 | 6.87 | 40.91 | 1.83 | 46.39 | 53.90 | 7.5 | 155 | 105 | VBW:1.5 kHz |
| Hori. | 10480.000 | AV | 35.96 | 39.48 | 7.97 | 40.40 | 1.83 | 44.84 | 53.90 | 9.0 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 15720.000 | AV | 35.73 | 40.04 | 10.53 | 40.09 | -9.54 | 36.67 | 53.90 | 17.2 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 6986.649 | PK | 50.18 | 36.46 | 6.87 | 40.91 | 1.83 | 54.43 | 73.90 | 19.4 | 109 | 87 | |
| Vert. | 10480.000 | PK | 47.28 | 39.48 | 7.97 | 40.40 | 1.83 | 56.16 | 73.90 | 17.7 | 150 | 0 | |
| Vert. | 15720.000 | PK | 44.42 | 40.04 | 10.53 | 40.09 | -9.54 | 45.36 | 73.90 | 28.5 | 150 | 0 | |
| Vert. | 6986.649 | AV | 42.63 | 36.46 | 6.87 | 40.91 | 1.83 | 46.88 | 53.90 | 7.0 | 109 | 87 | VBW:1.5 kHz |
| Vert. | 10480.000 | AV | 35.84 | 39.48 | 7.97 | 40.40 | 1.83 | 44.72 | 53.90 | 9.1 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 15720.000 | AV | 36.36 | 40.04 | 10.53 | 40.09 | -9.54 | 37.30 | 53.90 | 16.6 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor *Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

*The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

13 GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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Radiated Spurious Emission

| Report No. | 11253018S-B- | R1 | | | |
|---------------------|--------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, | July 11, | July 14, | July 16, |
| | vary >, =010 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| 3.6.1 | T 11 5220 N | et t | | | |

Mode Tx 11a 5320 MHz

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5350.000 | PK | 46.89 | 32.09 | 15.78 | 40.84 | 1.83 | 55.75 | 73.90 | 18.2 | 141 | 217 | |
| Hori. | 7093.318 | PK | 50.89 | 36.55 | 6.93 | 41.01 | 1.83 | 55.19 | 73.90 | 18.7 | 143 | 105 | |
| Hori. | 10640.000 | PK | 45.54 | 39.71 | 8.05 | 40.50 | 1.83 | 54.63 | 73.90 | 19.2 | 150 | 0 | |
| Hori. | 15960.000 | PK | 44.68 | 39.51 | 10.59 | 39.91 | -9.54 | 45.33 | 73.90 | 28.5 | 150 | 0 | |
| Hori. | 5350.000 | AV | 35.31 | 32.09 | 15.78 | 40.84 | 1.83 | 44.17 | 53.90 | 9.7 | 141 | 217 | VBW:1.5 kHz |
| Hori. | 7093.318 | AV | 44.06 | 36.55 | 6.93 | 41.01 | 1.83 | 48.36 | 53.90 | 5.5 | 143 | 105 | VBW:1.5 kHz |
| Hori. | 10640.000 | AV | 34.99 | 39.71 | 8.05 | 40.50 | 1.83 | 44.08 | 53.90 | 9.8 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 15960.000 | AV | 36.22 | 39.51 | 10.59 | 39.91 | -9.54 | 36.87 | 53.90 | 17.0 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 5350.000 | PK | 47.11 | 32.09 | 15.78 | 40.84 | 1.83 | 55.97 | 73.90 | 17.9 | 186 | 260 | |
| Vert. | 7093.316 | PK | 51.54 | 36.55 | 6.93 | 41.01 | 1.83 | 55.84 | 73.90 | 18.0 | 100 | 85 | |
| Vert. | 10640.000 | PK | 44.21 | 39.71 | 8.05 | 40.50 | 1.83 | 53.30 | 73.90 | 20.6 | 150 | 0 | |
| Vert. | 15960.000 | PK | 44.13 | 39.51 | 10.59 | 39.91 | -9.54 | 44.78 | 73.90 | 29.1 | 150 | 0 | |
| Vert. | 5350.000 | AV | 35.68 | 32.09 | 15.78 | 40.84 | 1.83 | 44.54 | 53.90 | 9.4 | 186 | 260 | VBW:1.5 kHz |
| Vert. | 7093.316 | AV | 43.93 | 36.55 | 6.93 | 41.01 | 1.83 | 48.23 | 53.90 | 5.6 | 100 | 85 | VBW:1.5 kHz |
| Vert. | 10640.000 | AV | 34.80 | 39.71 | 8.05 | 40.50 | 1.83 | 43.89 | 53.90 | 10.0 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 15960.000 | AV | 36.13 | 39.51 | 10.59 | 39.91 | | 36.78 | 53.90 | 17.1 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : 20log(3.705 m/3.0 m) = 1.83 dB 13 GHz - 40 GHz : <math>20log(1.0 m/3.0 m) = -9.54 dB

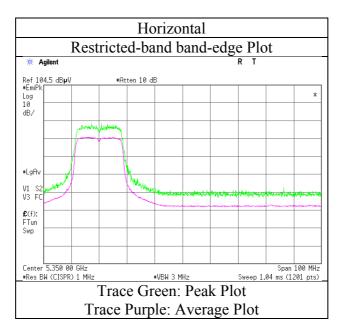
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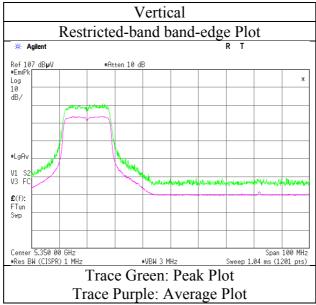
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11a 5320 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | .1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz - | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11a 5500 MI | Hz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5460.000 | PK | 47.20 | 32.12 | 15.86 | 40.74 | 1.83 | 56.27 | 73.90 | 17.6 | 136 | 242 | |
| Hori. | 7333.324 | PK | 47.66 | 36.68 | 7.08 | 41.26 | 1.83 | 51.99 | 73.90 | 21.9 | 139 | 108 | |
| Hori. | 11000.000 | PK | 45.08 | 40.19 | 8.29 | 40.74 | 1.83 | 54.65 | 73.90 | 19.2 | 150 | 0 | |
| Hori. | 16500.000 | PK | 44.37 | 40.46 | 10.87 | 39.86 | -9.54 | 46.30 | 73.90 | 27.6 | 150 | 0 | |
| Hori. | 5460.000 | AV | 35.90 | 32.12 | 15.86 | 40.74 | 1.83 | 44.97 | 53.90 | 8.9 | 136 | 242 | VBW:1.5 kHz |
| Hori. | 7333.324 | AV | 38.49 | 36.68 | 7.08 | 41.26 | 1.83 | 42.82 | 53.90 | 11.0 | 139 | 108 | VBW:1.5 kHz |
| Hori. | 11000.000 | AV | 35.39 | 40.19 | 8.29 | 40.74 | 1.83 | 44.96 | 53.90 | 8.9 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 16500.000 | AV | 36.09 | 40.46 | 10.87 | 39.86 | -9.54 | 38.02 | 53.90 | 15.8 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 5460.000 | PK | 47.08 | 32.12 | 15.86 | 40.74 | 1.83 | 56.15 | 73.90 | 17.8 | 173 | 265 | |
| Vert. | 7333.318 | PK | 47.98 | 36.68 | 7.08 | 41.26 | 1.83 | 52.31 | 73.90 | 21.5 | 100 | 89 | |
| Vert. | 11000.000 | PK | 45.41 | 40.19 | 8.29 | 40.74 | 1.83 | 54.98 | 73.90 | 18.9 | 150 | 0 | |
| Vert. | 16500.000 | PK | 44.70 | 40.46 | 10.87 | 39.86 | -9.54 | 46.63 | 73.90 | 27.2 | 150 | 0 | |
| Vert. | 5460.000 | AV | 36.04 | 32.12 | 15.86 | 40.74 | 1.83 | 45.11 | 53.90 | 8.8 | 173 | 265 | VBW:1.5 kHz |
| Vert. | 7333.318 | AV | 38.26 | 36.68 | 7.08 | 41.26 | 1.83 | 42.59 | 53.90 | 11.3 | 100 | 89 | VBW:1.5 kHz |
| Vert. | 11000.000 | AV | 35.31 | 40.19 | 8.29 | 40.74 | 1.83 | 44.88 | 53.90 | 9.0 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 16500.000 | | 36.60 | 40.46 | 10.87 | 39.86 | -9.54 | 38.53 | 53.90 | 15.3 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5470.000 | PK | 46.53 | 32.12 | 15.87 | 40.73 | 1.83 | 55.62 | -39.61 | -27.00 | 12.6 | 136 | 242 | |
| Vert. | 5470.000 | PK | 47.25 | 32.12 | 15.87 | 40.73 | 1.83 | 56.34 | -38.89 | -27.00 | 11.9 | 173 | 265 | |
| | | | | | | | | | _ | | | | | |

Result [dBuV/m] = Reading + Ant Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Cain(Amprifier) + Distance factor Resrult(EIRP[dBm])=10*LOG (({ 10^(Electric Field Strength [dBuV/m] / 20) * 10^(-6) * Distance:3[m])^2 } / 30) *10^3)

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^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level.

Distance factor : 1 GHz - 13 GHz : 20log (3.705 m / 3.0 m) = 1.83 dB13 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log (3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ $13 \text{ GHz} - 40 \text{ GHz} : <math>20\log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

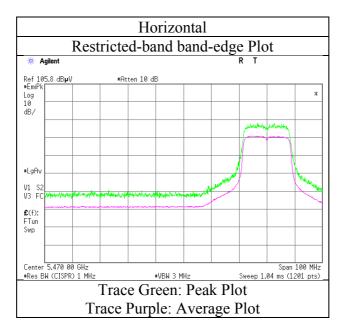
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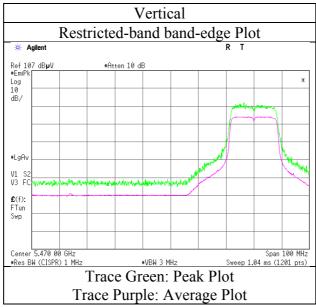
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11a 5500 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | 11 | | | |
|---------------------|---------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11a 5580 M | Hz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7439.972 | PK | 47.00 | 36.74 | 7.14 | 41.37 | 1.83 | 51.34 | 73.90 | 22.5 | 173 | 104 | |
| Hori. | 11160.000 | PK | 45.28 | 40.15 | 8.38 | 40.61 | 1.83 | 55.03 | 73.90 | 18.8 | 150 | 0 | |
| Hori. | 16740.000 | PK | 44.44 | 40.96 | 10.94 | 39.94 | -9.54 | 46.86 | 73.90 | 27.0 | 150 | 0 | |
| Hori. | 7439.972 | AV | 36.93 | 36.74 | 7.14 | 41.37 | 1.83 | 41.27 | 53.90 | 12.6 | 173 | 104 | VBW:1.5 kHz |
| Hori. | 11160.000 | AV | 35.61 | 40.15 | 8.38 | 40.61 | 1.83 | 45.36 | 53.90 | 8.5 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 16740.000 | AV | 36.73 | 40.96 | 10.94 | 39.94 | -9.54 | 39.15 | 53.90 | 14.7 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 7439.984 | PK | 46.73 | 36.74 | 7.14 | 41.37 | 1.83 | 51.07 | 73.90 | 22.8 | 100 | 91 | |
| Vert. | 11160.000 | PK | 45.24 | 40.15 | 8.38 | 40.61 | 1.83 | 54.99 | 73.90 | 18.9 | 150 | 0 | |
| Vert. | 16740.000 | PK | 44.83 | 40.96 | 10.94 | 39.94 | -9.54 | 47.25 | 73.90 | 26.6 | 150 | 0 | |
| Vert. | 7439.984 | AV | 36.32 | 36.74 | 7.14 | 41.37 | 1.83 | 40.66 | 53.90 | 13.2 | 100 | 91 | VBW:1.5 kHz |
| Vert. | 11160.000 | AV | 35.64 | 40.15 | 8.38 | 40.61 | 1.83 | 45.39 | 53.90 | 8.5 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 16740.000 | | 36.09 | 40.96 | 10.94 | 39.94 | -9.54 | 38.51 | 53.90 | 15.3 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

 $^{13 \}text{ GHz} - 40 \text{ GHz} : 20 \log (3.705 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | .1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz - | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11a 5700 MI | Hz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7599.930 | PK | 46.95 | 36.94 | 7.15 | 41.45 | 1.83 | 51.42 | 73.90 | 22.4 | 139 | 101 | |
| Hori. | 11400.000 | PK | 44.80 | 40.10 | 8.51 | 40.41 | 1.83 | 54.83 | 73.90 | 19.0 | 150 | 0 | |
| Hori. | 17100.000 | PK | 44.52 | 41.85 | 11.03 | 40.01 | -9.54 | 47.85 | 73.90 | 26.0 | 150 | 0 | |
| Hori. | 7599.930 | AV | 36.49 | 36.94 | 7.15 | 41.45 | 1.83 | 40.96 | 53.90 | 12.9 | 139 | 101 | VBW:1.5 kHz |
| Hori. | 11400.000 | AV | 33.73 | 40.10 | 8.51 | 40.41 | 1.83 | 43.76 | 53.90 | 10.1 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 17100.000 | AV | 36.13 | 41.85 | 11.03 | 40.01 | -9.54 | 39.46 | 53.90 | 14.4 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 7599.948 | PK | 46.81 | 36.94 | 7.15 | 41.45 | 1.83 | 51.28 | 73.90 | 22.6 | 100 | 96 | |
| Vert. | 11400.000 | PK | 45.86 | 40.10 | 8.51 | 40.41 | 1.83 | 55.89 | 73.90 | 18.0 | 150 | 0 | |
| Vert. | 17100.000 | PK | 45.23 | 41.85 | 11.03 | 40.01 | -9.54 | 48.56 | 73.90 | 25.3 | 150 | 0 | |
| Vert. | 7599.948 | AV | 36.52 | 36.94 | 7.15 | 41.45 | 1.83 | 40.99 | 53.90 | 12.9 | 100 | 96 | VBW:1.5 kHz |
| Vert. | 11400.000 | AV | 34.01 | 40.10 | 8.51 | 40.41 | 1.83 | 44.04 | 53.90 | 9.8 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 17100.000 | AV | 36.25 | 41.85 | 11.03 | 40.01 | -9.54 | 39.58 | 53.90 | 14.3 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

Distance factor: $1 \text{ GHz} - 13 \text{ GHz} : 20 \log (3.705 \text{ m} / 3.0 \text{ m}) = 1.83 \text{ dB}$ $13 \text{ GHz} - 40 \text{ GHz} : 20 \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5725.000 | PK | 46.43 | 32.58 | 16.04 | 40.62 | 1.83 | 56.26 | -38.97 | -27.00 | 12.0 | 124 | 256 | |
| Vert. | 5725.000 | PK | 46.45 | 32.58 | 16.04 | 40.62 | 1.83 | 56.28 | -38.95 | -27.00 | 12.0 | 209 | 262 | |

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^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

Resrult(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) * 10^3)

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

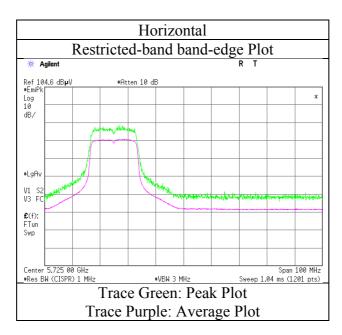
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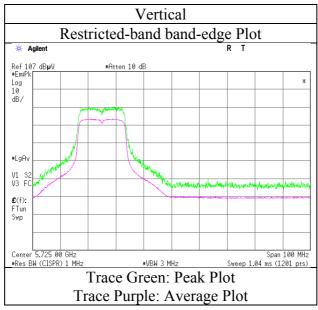
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11a 5700 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

| Report No. | 11253018S-B-F | R1 | | | |
|---------------------|---------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11a 5745 M | Hz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7660.000 | PK | 47.14 | 37.05 | 7.13 | 41.47 | 1.83 | 51.68 | 73.90 | 22.2 | 154 | 103 | |
| Hori. | 11490.000 | PK | 44.48 | 40.08 | 8.56 | 40.34 | 1.83 | 54.61 | 73.90 | 19.2 | 150 | 0 | |
| Hori. | 17235.000 | PK | 44.35 | 42.32 | 11.03 | 39.98 | -9.54 | 48.18 | 73.90 | 25.7 | 150 | 0 | |
| Hori. | 7660.000 | AV | 35.86 | 37.05 | 7.13 | 41.47 | 1.83 | 40.40 | 53.90 | 13.5 | 154 | 103 | VBW:1.5 kHz |
| Hori. | 11490.000 | AV | 33.40 | 40.08 | 8.56 | 40.34 | 1.83 | 43.53 | 53.90 | 10.3 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 17235.000 | AV | 35.65 | 42.32 | 11.03 | 39.98 | -9.54 | 39.48 | 53.90 | 14.4 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 7659.905 | PK | 46.36 | 37.05 | 7.13 | 41.47 | 1.83 | 50.90 | 73.90 | 23.0 | 153 | 86 | |
| Vert. | 11490.000 | PK | 43.90 | 40.08 | 8.56 | 40.34 | 1.83 | 54.03 | 73.90 | 19.8 | 150 | 0 | |
| Vert. | 17235.000 | PK | 43.77 | 42.32 | 11.03 | 39.98 | -9.54 | 47.60 | 73.90 | 26.3 | 150 | 0 | |
| Vert. | 7659.905 | AV | 36.09 | 37.05 | 7.13 | 41.47 | 1.83 | 40.63 | 53.90 | 13.2 | 153 | 86 | VBW:1.5 kHz |
| Vert. | 11490.000 | AV | 33.47 | 40.08 | 8.56 | 40.34 | 1.83 | 43.60 | 53.90 | 10.3 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 17235.000 | AV | 35.83 | 42.32 | 11.03 | 39.98 | -9.54 | 39.66 | 53.90 | 14.2 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

(Calculation) (above 1GHz Outside of the restricted band)

| | | (* PK: Peak | , AV: Average, | QP: Quasi-Pea | k) | | | | | | | | | |
|----------|-----------|-------------|----------------|---------------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5650.000 | PK | 46.68 | 32.43 | 15.99 | 40.65 | 1.83 | 56.28 | -38.95 | -27.00 | 12.0 | 126 | 254 | |
| Hori. | 5700.000 | PK | 46.65 | 32.53 | 16.02 | 40.63 | 1.83 | 56.40 | -38.83 | 10.00 | 48.8 | 126 | 254 | |
| Hori. | 5720.000 | PK | 46.18 | 32.57 | 16.03 | 40.62 | 1.83 | 55.99 | -39.24 | 15.60 | 54.8 | 126 | 254 | |
| Hori. | 5725.000 | PK | 51.82 | 32.58 | 16.04 | 40.62 | 1.83 | 61.65 | -33.58 | 27.00 | 60.6 | 126 | 254 | |
| Vert. | 5650.000 | PK | 46.25 | 32.43 | 15.99 | 40.65 | 1.83 | 55.85 | -39.38 | -27.00 | 12.4 | 172 | 248 | |
| Vert. | 5700.000 | PK | 46.26 | 32.53 | 16.02 | 40.63 | 1.83 | 56.01 | -39.22 | 10.00 | 49.2 | 172 | 248 | |
| Vert. | 5720.000 | PK | 46.66 | 32.57 | 16.03 | 40.62 | 1.83 | 56.47 | -38.76 | 15.60 | 54.4 | 172 | 248 | 1 |
| Vert | 5725 000 | PK | 55 44 | 32 58 | 16.04 | 40.62 | 1.83 | 65.27 | -29.96 | 27.00 | 57.0 | 172 | 248 | |

Distance factor : 1 GHz - 13 GHz : 20log (3.705 m/ 3.0 m) = 1.83 dB 13 GHz - 40 GHz : 20log (1.0 m/ 3.0 m) = -9.54 dB

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20 \log (3.705 \text{ m} / 3.0 \text{ m}) = 1.83 \text{ dB}$

¹³ GHz - 40 GHz : 20log (1.0 m/3.0 m) = -9.54 dB

^{*}The 4th harmonic was not seen so the result was its base noise level.

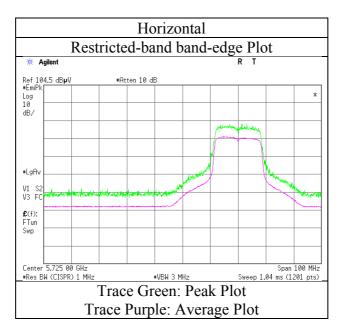
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

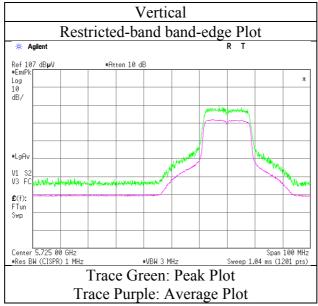
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11a 5745 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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

 Test report No.
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 Issued date
 : November 7, 2016

 FCC ID
 : YR7SKR3000P6

Radiated Spurious Emission

| Report No. | 11253018S-B-R | 11 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11a 5785 MI | Hz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7713.193 | PK | 48.19 | 37.14 | 7.12 | 41.48 | 1.83 | 52.80 | 73.90 | 21.1 | 151 | 107 | |
| Hori. | 11570.000 | PK | 42.88 | 40.01 | 8.57 | 40.27 | 1.83 | 53.02 | 73.90 | 20.8 | 150 | 0 | |
| Hori. | 17355.000 | PK | 44.02 | 42.75 | 11.03 | 39.96 | -9.54 | 48.30 | 73.90 | 25.6 | 150 | 0 | |
| Hori. | 7713.193 | AV | 37.18 | 37.14 | 7.12 | 41.48 | 1.83 | 41.79 | 53.90 | 12.1 | 151 | 107 | VBW:1.5 kHz |
| Hori. | 11570.000 | AV | 32.57 | 40.01 | 8.57 | 40.27 | 1.83 | 42.71 | 53.90 | 11.1 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 17355.000 | AV | 35.86 | 42.75 | 11.03 | 39.96 | -9.54 | 40.14 | 53.90 | 13.7 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 7713.333 | PK | 47.86 | 37.14 | 7.11 | 41.48 | 1.83 | 52.46 | 73.90 | 21.4 | 153 | 92 | |
| Vert. | 11570.000 | PK | 43.84 | 40.01 | 8.57 | 40.27 | 1.83 | 53.98 | 73.90 | 19.9 | 100 | 0 | |
| Vert. | 17355.000 | PK | 44.72 | 42.75 | 11.03 | 39.96 | -9.54 | 49.00 | 73.90 | 24.9 | 150 | 0 | |
| Vert. | 7713.333 | AV | 37.17 | 37.14 | 7.11 | 41.48 | 1.83 | 41.77 | 53.90 | 12.1 | 153 | 92 | VBW:1.5 kHz |
| Vert. | 11570.000 | AV | 32.73 | 40.01 | 8.57 | 40.27 | 1.83 | 42.87 | 53.90 | 11.0 | 100 | 0 | VBW:1.5 kHz |
| Vert. | 17355.000 | AV | 35.96 | 42.75 | 11.03 | 39.96 | -9.54 | 40.24 | 53.90 | 13.6 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

¹³ GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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Radiated Spurious Emission

| Report No. | 11253018S-B- | R1 | | | |
|---------------------|--------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, | July 11, | July 14, | July 16, |
| | July 2, 2010 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| 3.6.1 | T 11 5005 1 | et t | | | |

Mode Tx 11a 5825 MHz

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7766.658 | PK | 47.62 | 37.23 | 7.11 | 41.49 | 1.83 | 52.30 | 73.90 | 21.6 | 152 | 110 | |
| Hori. | 11650.000 | PK | 43.76 | 39.94 | 8.59 | 40.20 | 1.83 | 53.92 | 73.90 | 19.9 | 150 | 0 | |
| Hori. | 17475.000 | PK | 45.16 | 43.17 | 11.03 | 39.94 | -9.54 | 49.88 | 73.90 | 24.0 | 150 | 0 | |
| Hori. | 7766.658 | AV | 36.85 | 37.23 | 7.11 | 41.49 | 1.83 | 41.53 | 53.90 | 12.3 | 152 | 110 | VBW:1.5 kHz |
| Hori. | 11650.000 | AV | 32.37 | 39.94 | 8.59 | 40.20 | 1.83 | 42.53 | 53.90 | 11.3 | 150 | 0 | VBW:1.5 kHz |
| Hori. | 17475.000 | AV | 36.37 | 43.17 | 11.03 | 39.94 | -9.54 | 41.09 | 53.90 | 12.8 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 7766.597 | PK | 47.45 | 37.23 | 7.11 | 41.49 | 1.83 | 52.13 | 73.90 | 21.7 | 155 | 93 | |
| Vert. | 11650.000 | PK | 42.58 | 39.94 | 8.59 | 40.20 | 1.83 | 52.74 | 73.90 | 21.1 | 150 | 0 | |
| Vert. | 17475.000 | PK | 45.51 | 43.17 | 11.03 | 39.94 | -9.54 | 50.23 | 73.90 | 23.6 | 150 | 0 | |
| Vert. | 7766.597 | AV | 36.83 | 37.23 | 7.11 | 41.49 | 1.83 | 41.51 | 53.90 | 12.3 | 155 | 93 | VBW:1.5 kHz |
| Vert. | 11650.000 | AV | 32.44 | 39.94 | 8.59 | 40.20 | 1.83 | 42.60 | 53.90 | 11.3 | 150 | 0 | VBW:1.5 kHz |
| Vert. | 17475.000 | AV | 36.32 | 43.17 | 11.03 | 39.94 | -9.54 | 41.04 | 53.90 | 12.8 | 150 | 0 | VBW:1.5 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5850.000 | PK | 46.10 | 32.82 | 16.13 | 40.57 | 1.83 | 56.31 | -38.92 | 27.00 | 65.9 | 135 | 259 | |
| Hori. | 5855.000 | PK | 46.27 | 32.83 | 16.13 | 40.57 | 1.83 | 56.49 | -38.74 | 15.60 | 54.3 | 135 | 259 | |
| Hori. | 5875.000 | PK | 45.69 | 32.87 | 16.15 | 40.57 | 1.83 | 55.97 | -39.26 | 10.00 | 49.3 | 135 | 259 | |
| Hori. | 5925.000 | PK | 45.91 | 32.97 | 16.19 | 40.55 | 1.83 | 56.35 | -38.88 | -27.00 | 11.9 | 135 | 259 | |
| Vert. | 5850.000 | PK | 45.98 | 32.82 | 16.13 | 40.57 | 1.83 | 56.19 | -39.04 | 27.00 | 66.0 | 213 | 267 | |
| Vert. | 5855.000 | PK | 45.41 | 32.83 | 16.13 | 40.57 | 1.83 | 55.63 | -39.60 | 15.60 | 55.2 | 213 | 267 | |
| Vert. | 5875.000 | PK | 45.52 | 32.87 | 16.15 | 40.57 | 1.83 | 55.80 | -39.43 | 10.00 | 49.4 | 213 | 267 | |
| Vert. | 5925.000 | PK | 45.31 | 32.97 | 16.19 | 40.55 | 1.83 | 55.75 | -39.48 | -27.00 | 12.5 | 213 | 267 | |

 $Result \ [dBuV/m] = Reading + Ant. Fac. + Loss \ (Cable + (Attenuator \ or \ Filter) (below \ 18 \ GHz)) - Cain (Amprifier) + Distance factor \ Resrult (EIRP[dBm]) = 10*LOG \ ((\{10^c (Electric \ Field \ Strength \ [dBuV/m] \ / \ 20)*10^c-(6)*Distance \ 3[m] \)^2 \ / \ 30)*10^3)$

Distance factor : 1 GHz - 13 GHz : 20log (3.705 m/ 3.0 m) = 1.83 dB

13 GHz - 40 GHz : $20\log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : $1 \text{ GHz} - 13 \text{ GHz} : 20 \log (3.705 \text{ m} / 3.0 \text{ m}) = 1.83 \text{ dB}$

Distance factor: 1 GHz - 13 GHz: $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ 13 GHz - 40 GHz: $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level.

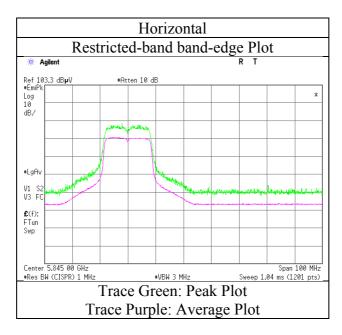
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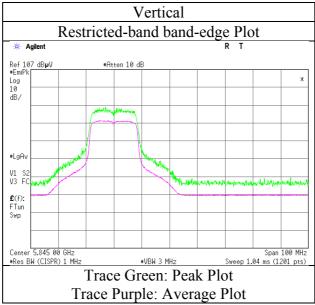
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11a 5825 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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

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Radiated Spurious Emission

| | | 5F 10 6FEE 0 5F10 | | | |
|---------------------|---------------|-------------------|------------------|------------------|------------------|
| Report No. | 11253018S-B-I | R1 | | | |
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 11, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 518 | 0 MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| | | (| , At v. Atverage, | Q Q |) | | | | | | | | |
|----------|-----------|----------|-------------------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5150.000 | PK | 47.02 | 32.04 | 15.63 | 41.02 | 1.83 | 55.50 | 73.90 | 18.4 | 100 | 24 | |
| Hori. | 6906.685 | PK | 50.26 | 36.22 | 6.86 | 40.88 | 1.83 | 54.29 | 73.90 | 19.6 | 161 | 105 | |
| Hori. | 10360.000 | PK | 40.03 | 39.15 | 8.00 | 40.37 | 1.83 | 48.64 | 73.90 | 25.2 | 150 | 0 | |
| Hori. | 15540.000 | PK | 44.79 | 40.44 | 10.48 | 40.23 | -9.54 | 45.94 | 73.90 | 27.9 | 150 | 0 | |
| Hori. | 5150.000 | AV | 36.36 | 32.04 | 15.63 | 41.02 | 1.83 | 44.84 | 53.90 | 9.1 | 100 | 24 | VBW:3.6 kHz |
| Hori. | 6906.685 | AV | 42.78 | 36.22 | 6.86 | 40.88 | 1.83 | 46.81 | 53.90 | 7.0 | 161 | 105 | VBW:3.6 kHz |
| Hori. | 10360.000 | AV | 36.63 | 39.15 | 8.00 | 40.37 | 1.83 | 45.24 | 53.90 | 8.6 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 15540.000 | AV | 36.70 | 40.44 | 10.48 | 40.23 | -9.54 | 37.85 | 53.90 | 16.0 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 5150.000 | PK | 47.71 | 32.04 | 15.63 | 41.02 | 1.83 | 56.19 | 73.90 | 17.7 | 100 | 359 | |
| Vert. | 6906.685 | PK | 51.38 | 36.22 | 6.86 | 40.88 | 1.83 | 55.41 | 73.90 | 18.4 | 100 | 99 | |
| Vert. | 10360.000 | PK | 49.06 | 39.15 | 8.00 | 40.37 | 1.83 | 57.67 | 73.90 | 16.2 | 150 | 0 | |
| Vert. | 15540.000 | PK | 45.11 | 40.44 | 10.48 | 40.23 | -9.54 | 46.26 | 73.90 | 27.6 | 150 | 0 | |
| Vert. | 5150.000 | AV | 36.65 | 32.04 | 15.63 | 41.02 | 1.83 | 45.13 | 53.90 | 8.8 | 100 | 359 | VBW:3.6 kHz |
| Vert. | 6906.685 | AV | 42.57 | 36.22 | 6.86 | 40.88 | 1.83 | 46.60 | 53.90 | 7.3 | 100 | 99 | VBW:3.6 kHz |
| Vert. | 10360.000 | AV | 36.74 | 39.15 | 8.00 | 40.37 | 1.83 | 45.35 | 53.90 | 8.5 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 15540.000 | AV | 36.34 | 40.44 | 10.48 | 40.23 | -9.54 | 37.49 | 53.90 | 16.4 | 150 | 0 | VBW:3.6 kHz |

Result [dBuVm] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor *Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

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

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ 13 GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

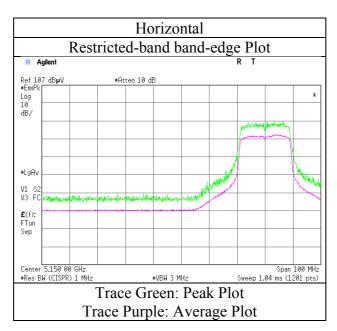
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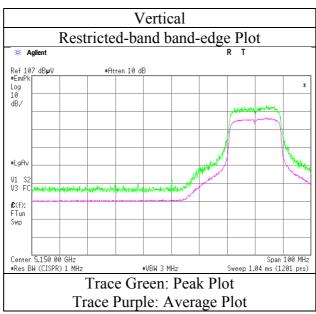
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11n-20 5180 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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

: 11253018S-B-R1 Test report No. Page : 88 of 120 **Issued date** : November 7, 2016 FCC ID : YR7SKR3000P6

Radiated Spurious Emission

| Report No. | 11253018S-B-I | R1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 11, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5240 |) MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 6986.769 | PK | 51.11 | 36.46 | 6.87 | 40.91 | 1.83 | 55.36 | 73.90 | 18.5 | 154 | 111 | |
| Hori. | 10480.000 | PK | 49.13 | 39.48 | 7.97 | 40.40 | 1.83 | 58.01 | 73.90 | 15.8 | 150 | 0 | |
| Hori. | 15720.000 | PK | 44.38 | 40.04 | 10.53 | 40.09 | -9.54 | 45.32 | 73.90 | 28.5 | 150 | 0 | |
| Hori. | 6986.769 | AV | 42.54 | 36.46 | 6.87 | 40.91 | 1.83 | 46.79 | 53.90 | 7.1 | 154 | 111 | VBW:3.6 kHz |
| Hori. | 10480.000 | AV | 37.10 | 39.48 | 7.97 | 40.40 | 1.83 | 45.98 | 53.90 | 7.9 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 15720.000 | AV | 35.67 | 40.04 | 10.53 | 40.09 | -9.54 | 36.61 | 53.90 | 17.2 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 6986.769 | PK | 50.95 | 36.46 | 6.87 | 40.91 | 1.83 | 55.20 | 73.90 | 18.7 | 110 | 96 | |
| Vert. | 10480.000 | PK | 47.46 | 39.48 | 7.97 | 40.40 | 1.83 | 56.34 | 73.90 | 17.5 | 150 | 0 | |
| Vert. | 15720.000 | PK | 44.75 | 40.04 | 10.53 | 40.09 | -9.54 | 45.69 | 73.90 | 28.2 | 150 | 0 | |
| Vert. | 6986.769 | AV | 40.90 | 36.46 | 6.87 | 40.91 | 1.83 | 45.15 | 53.90 | 8.7 | 110 | 96 | VBW:3.6 kHz |
| Vert. | 10480.000 | AV | 37.53 | 39.48 | 7.97 | 40.40 | 1.83 | 46.41 | 53.90 | 7.4 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 15720.000 | AV | 35.66 | 40.04 | 10.53 | 40.09 | -9.54 | 36.60 | 53.90 | 17.3 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

13 GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

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 Issued date
 : November 7, 2016

 FCC ID
 : YR7SKR3000P6

Radiated Spurious Emission

| Report No. | 11253018S-B-F | R1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 11, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5320 |) MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5350.000 | PK | 47.97 | 32.09 | 15.78 | 40.84 | 1.83 | 56.83 | 73.90 | 17.1 | 100 | 54 | |
| Hori. | 7093.459 | PK | 51.75 | 36.55 | 6.93 | 41.01 | 1.83 | 56.05 | 73.90 | 17.8 | 139 | 107 | |
| Hori. | 10640.000 | PK | 48.27 | 39.71 | 8.05 | 40.50 | 1.83 | 57.36 | 73.90 | 16.5 | 150 | 0 | |
| Hori. | 15960.000 | PK | 44.80 | 39.51 | 10.59 | 39.91 | -9.54 | 45.45 | 73.90 | 28.4 | 150 | 0 | |
| Hori. | 5350.000 | AV | 36.82 | 32.09 | 15.78 | 40.84 | 1.83 | 45.68 | 53.90 | 8.2 | 100 | 54 | VBW:3.6 kHz |
| Hori. | 7093.459 | AV | 42.46 | 36.55 | 6.93 | 41.01 | 1.83 | 46.76 | 53.90 | 7.1 | 139 | 107 | VBW:3.6 kHz |
| Hori. | 10640.000 | AV | 35.83 | 39.71 | 8.05 | 40.50 | 1.83 | 44.92 | 53.90 | 8.9 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 15960.000 | AV | 36.11 | 39.51 | 10.59 | 39.91 | -9.54 | 36.76 | 53.90 | 17.1 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 5350.000 | PK | 46.97 | 32.09 | 15.78 | 40.84 | 1.83 | 55.83 | 73.90 | 18.1 | 100 | 359 | |
| Vert. | 7093.459 | PK | 51.83 | 36.55 | 6.93 | 41.01 | 1.83 | 56.13 | 73.90 | 17.7 | 106 | 91 | |
| Vert. | 10640.000 | PK | 47.26 | 39.71 | 8.05 | 40.50 | 1.83 | 56.35 | 73.90 | 17.5 | 150 | 0 | |
| Vert. | 15960.000 | PK | 44.99 | 39.51 | 10.59 | 39.91 | -9.54 | 45.64 | 73.90 | 28.2 | 150 | 0 | |
| Vert. | 5350.000 | AV | 36.84 | 32.09 | 15.78 | 40.84 | 1.83 | 45.70 | 53.90 | 8.2 | 100 | 359 | VBW:3.6 kHz |
| Vert. | 7093.459 | AV | 42.35 | 36.55 | 6.93 | 41.01 | 1.83 | 46.65 | 53.90 | 7.2 | 106 | 91 | VBW:3.6 kHz |
| Vert. | 10640.000 | AV | 35.98 | 39.71 | 8.05 | 40.50 | 1.83 | 45.07 | 53.90 | 8.8 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 15960.000 | | 35.95 | 39.51 | 10.59 | 39.91 | -9.54 | 36.60 | 53.90 | 17.3 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Cain(Amprifier) + Distance factor

*The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : 20log (3.705 m / 3.0 m) = 1.83 dB

13 GHz - 40 GHz : 20log (3.703 m/ 3.0 m) = -9.54 dB

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

*The 4th harmonic was not seen so the result was its base noise level

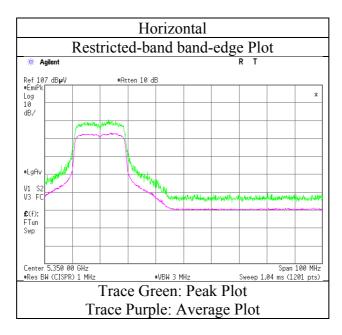
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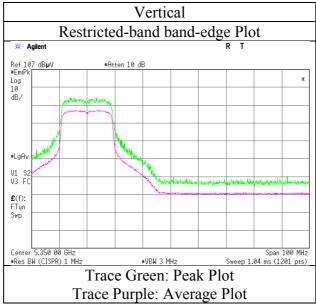
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11n-20 5320 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | 11 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 11, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5500 | MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5460.000 | PK | 47.20 | 32.12 | 15.86 | 40.74 | 1.83 | 56.27 | 73.90 | 17.6 | 136 | 242 | |
| Hori. | 7333.383 | PK | 48.31 | 36.68 | 7.08 | 41.26 | 1.83 | 52.64 | 73.90 | 21.2 | 119 | 107 | |
| Hori. | 11000.000 | PK | 47.49 | 40.19 | 8.29 | 40.74 | 1.83 | 57.06 | 73.90 | 16.8 | 150 | 0 | |
| Hori. | 16500.000 | PK | 44.23 | 40.46 | 10.87 | 39.86 | -9.54 | 46.16 | 73.90 | 27.7 | 150 | 0 | |
| Hori. | 5460.000 | AV | 35.90 | 32.12 | 15.86 | 40.74 | 1.83 | 44.97 | 53.90 | 8.9 | 136 | 242 | VBW:3.6 kHz |
| Hori. | 7333.383 | AV | 38.29 | 36.68 | 7.08 | 41.26 | 1.83 | 42.62 | 53.90 | 11.2 | 119 | 107 | VBW:3.6 kHz |
| Hori. | 11000.000 | AV | 36.77 | 40.19 | 8.29 | 40.74 | 1.83 | 46.34 | 53.90 | 7.5 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 16500.000 | AV | 36.82 | 40.46 | 10.87 | 39.86 | -9.54 | 38.75 | 53.90 | 15.1 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 5460.000 | PK | 47.08 | 32.12 | 15.86 | 40.74 | 1.83 | 56.15 | 73.90 | 17.8 | 173 | 265 | |
| Vert. | 7333.383 | PK | 47.98 | 36.68 | 7.08 | 41.26 | 1.83 | 52.31 | 73.90 | 21.5 | 100 | 93 | |
| Vert. | 11000.000 | PK | 40.04 | 40.19 | 8.29 | 40.74 | 1.83 | 49.61 | 73.90 | 24.2 | 150 | 0 | |
| Vert. | 16500.000 | PK | 44.65 | 40.46 | 10.87 | 39.86 | -9.54 | 46.58 | 73.90 | 27.3 | 150 | 0 | |
| Vert. | 5460.000 | AV | 36.04 | 32.12 | 15.86 | 40.74 | 1.83 | 45.11 | 53.90 | 8.8 | 173 | 265 | VBW:3.6 kHz |
| Vert. | 7333.383 | AV | 37.62 | 36.68 | 7.08 | 41.26 | 1.83 | 41.95 | 53.90 | 11.9 | 100 | 93 | VBW:3.6 kHz |
| Vert. | 11000.000 | AV | 36.46 | 40.19 | 8.29 | 40.74 | 1.83 | 46.03 | 53.90 | 7.8 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 16500.000 | | 36.03 | 40.46 | 10.87 | 39.86 | -9.54 | 37.96 | 53.90 | 15.9 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

Distance factor : 1 GHz - 13 GHz : 20log (3.705 m / 3.0 m) = 1.83 dB

13 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|------------|------------------|------------|--------------|--------------|------------------|-------------|--------------|-----------------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | i I |
| Hori. | 5470.000 | PK | 46.53 | 32.12 | 15.87 | 40.73 | 1.83 | 55.62 | -39.61 | -27.00 | 12.6 | 136 | 242 | |
| Vert. | 5470.000 | PK | 47.25 | 32.12 | 15.87 | 40.73 | 1.83 | 56.34 | -38.89 | -27.00 | 11.9 | 173 | 265 | |
| Result [d] | BuV/ml = Reading | + Ant.Fac. | + Loss (Cabl | e+(Attenuate | or or Filter)(be | elow 18 GHz |) - Gain(Amp | rifier) + Dista | nce factor | | | | | |

Resrult(EIRP[dBm])=10*LOG (({ 10^(Electric Field Strength [dBuV/m] / 20) * 10^(-6) * Distance:3[m])^2 } / 30) *10^3)

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level.

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log (3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ $13 \text{ GHz} - 40 \text{ GHz} : <math>20\log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

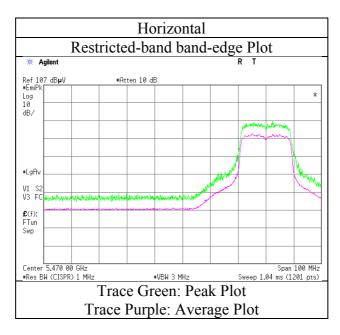
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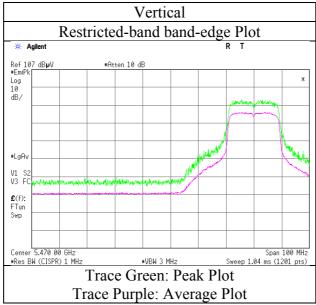
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11n-20 5500 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | .1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 11, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz - | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5580 | MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band) (* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7440.000 | PK | 49.14 | 36.74 | 7.14 | 41.37 | 1.83 | 53.48 | 73.90 | 20.4 | 148 | 99 | |
| Hori. | 11160.000 | PK | 49.06 | 40.15 | 8.38 | 40.61 | 1.83 | 58.81 | 73.90 | 15.0 | 150 | 0 | |
| Hori. | 16740.000 | PK | 44.33 | 40.96 | 10.94 | 39.94 | -9.54 | 46.75 | 73.90 | 27.1 | 150 | 0 | |
| Hori. | 7440.000 | AV | 37.11 | 36.74 | 7.14 | 41.37 | 1.83 | 41.45 | 53.90 | 12.4 | 148 | 99 | VBW:3.6 kHz |
| Hori. | 11160.000 | AV | 36.77 | 40.15 | 8.38 | 40.61 | 1.83 | 46.52 | 53.90 | 7.3 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 16740.000 | AV | 36.13 | 40.96 | 10.94 | 39.94 | -9.54 | 38.55 | 53.90 | 15.3 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 7440.000 | PK | 48.76 | 36.74 | 7.14 | 41.37 | 1.83 | 53.10 | 73.90 | 20.8 | 100 | 95 | |
| Vert. | 11160.000 | PK | 49.12 | 40.15 | 8.38 | 40.61 | 1.83 | 58.87 | 73.90 | 15.0 | 150 | 0 | |
| Vert. | 16740.000 | PK | 44.27 | 40.96 | 10.94 | 39.94 | -9.54 | 46.69 | 73.90 | 27.2 | 150 | 0 | |
| Vert. | 7440.000 | AV | 36.75 | 36.74 | 7.14 | 41.37 | 1.83 | 41.09 | 53.90 | 12.8 | 100 | 95 | VBW:3.6 kHz |
| Vert. | 11160.000 | AV | 36.78 | 40.15 | 8.38 | 40.61 | 1.83 | 46.53 | 53.90 | 7.3 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 16740.000 | AV | 36.22 | 40.96 | 10.94 | 39.94 | | 38.64 | 53.90 | 15.2 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | .1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 11, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5700 | MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7599.235 | PK | 48.98 | 36.94 | 7.15 | 41.45 | 1.83 | 53.45 | 73.90 | 20.4 | 141 | 97 | |
| Hori. | 11400.000 | PK | 46.85 | 40.10 | 8.51 | 40.41 | 1.83 | 56.88 | 73.90 | 17.0 | 150 | 0 | |
| Hori. | 17100.000 | PK | 44.66 | 41.85 | 11.03 | 40.01 | -9.54 | 47.99 | 73.90 | 25.9 | 150 | 0 | |
| Hori. | 7599.235 | AV | 37.73 | 36.94 | 7.15 | 41.45 | 1.83 | 42.20 | 53.90 | 11.7 | 141 | 97 | VBW:3.6 kHz |
| Hori. | 11400.000 | AV | 35.76 | 40.10 | 8.51 | 40.41 | 1.83 | 45.79 | 53.90 | 8.1 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 17100.000 | AV | 35.97 | 41.85 | 11.03 | 40.01 | -9.54 | 39.30 | 53.90 | 14.6 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 7599.235 | PK | 49.98 | 36.94 | 7.15 | 41.45 | 1.83 | 54.45 | 73.90 | 19.4 | 100 | 98 | |
| Vert. | 11400.000 | PK | 46.94 | 40.10 | 8.51 | 40.41 | 1.83 | 56.97 | 73.90 | 16.9 | 150 | 0 | |
| Vert. | 17100.000 | PK | 44.54 | 41.85 | 11.03 | 40.01 | -9.54 | 47.87 | 73.90 | 26.0 | 150 | 0 | |
| Vert. | 7599.235 | AV | 37.53 | 36.94 | 7.15 | 41.45 | 1.83 | 42.00 | 53.90 | 11.9 | 100 | 98 | VBW:3.6 kHz |
| Vert. | 11400.000 | AV | 35.82 | 40.10 | 8.51 | 40.41 | 1.83 | 45.85 | 53.90 | 8.0 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 17100.000 | AV | 36.18 | 41.85 | 11.03 | 40.01 | -9.54 | 39.51 | 53.90 | 14.3 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5725.000 | PK | 47.40 | 32.58 | 16.04 | 40.62 | 1.83 | 57.23 | -38.00 | -27.00 | 11.0 | 100 | 289 | |
| Vert. | 5725.000 | PK | 50.05 | 32.58 | 16.04 | 40.62 | 1.83 | 59.88 | -35.35 | -27.00 | 8.4 | 100 | 8 | |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

*The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log (3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ $13 \text{ GHz} - 40 \text{ GHz} : <math>20\log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

UL Japan, Inc. **Shonan EMC Lab.**

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

¹³ GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

 $Resrult(EIRP[dBm]) = 10*LOG \ ((\{ 10 \land (Electric Field Strength \ [dBuV/m] \ / \ 20)*10 \land (-6)*Distance: 3[m]) \land 2 \} \ / \ 30)*10^3)$ *Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

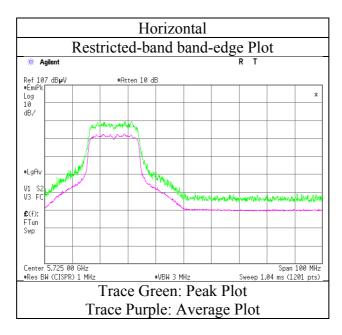
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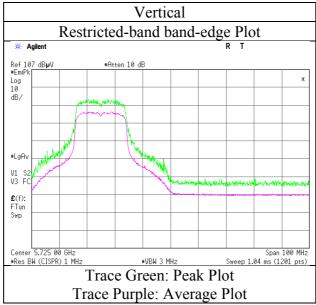
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11n-20 5700 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

| Report No. | 11253018S-I | B-R1 | | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 3 | 1 | 1 | 1 | 3 | 3 |
| Date | July 17, | July 9, | July 11, | July 11, | July 14, | July 16, |
| | 2016 | 2016 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 24 deg. C / | 24 deg. C / | 23 deg. C / |
| Humidity | 58 % RH | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Wataru | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Kojima | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 30 MHz - | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 1 GHz | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5 | 745 MHz | | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 70.000 | QP | 25.20 | 5.88 | 7.17 | 32.16 | 0.00 | 6.09 | 40.00 | 33.9 | 200 | 217 | |
| Hori. | 100.000 | QP | 29.90 | 9.71 | 7.44 | 32.14 | 0.00 | 14.91 | 43.52 | 28.6 | 150 | 83 | |
| Hori. | 500.000 | QP | 22.20 | 17.39 | 9.58 | 31.92 | 0.00 | 17.25 | 46.02 | 28.7 | 150 | 299 | |
| Hori. | 700.000 | QP | 22.10 | 20.24 | 10.37 | 31.83 | 0.00 | 20.88 | 46.02 | 25.1 | 100 | 267 | |
| Hori. | 7660.000 | PK | 49.26 | 37.05 | 7.13 | 41.47 | 1.83 | 53.80 | 73.90 | 20.1 | 147 | 107 | |
| Hori. | 11490.000 | PK | 45.74 | 40.08 | 8.56 | 40.34 | 1.83 | 55.87 | 73.90 | 18.0 | 150 | 0 | |
| Hori. | 17235.000 | PK | 43.98 | 42.32 | 11.03 | 39.98 | -9.54 | 47.81 | 73.90 | 26.0 | 150 | 0 | |
| Hori. | 7660.000 | AV | 37.55 | 37.05 | 7.13 | 41.47 | 1.83 | 42.09 | 53.90 | 11.8 | 147 | 107 | VBW:3.6 kHz |
| Hori. | 11490.000 | AV | 34.63 | 40.08 | 8.56 | 40.34 | 1.83 | 44.76 | 53.90 | 9.1 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 17235.000 | AV | 35.45 | 42.32 | 11.03 | 39.98 | -9.54 | 39.28 | 53.90 | 14.6 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 40.000 | QP | 2.30 | 13.85 | 6.87 | 32.18 | 0.00 | -9.16 | 40.00 | 49.1 | 100 | 34 | |
| Vert. | 70.000 | QP | 23.20 | 5.88 | 7.17 | 32.16 | 0.00 | 4.09 | 40.00 | 35.9 | 100 | 320 | |
| Vert. | 250.000 | QP | 22.50 | 17.10 | 8.41 | 31.99 | 0.00 | 16.02 | 46.02 | 30.0 | 100 | 47 | |
| Vert. | 366.258 | QP | 22.20 | 15.28 | 9.02 | 31.93 | 0.00 | 14.57 | 46.02 | 31.4 | 100 | 101 | |
| Vert. | 484.470 | QP | 22.00 | 17.17 | 9.52 | 31.93 | 0.00 | 16.76 | 46.02 | 29.2 | 100 | 106 | |
| Vert. | 7660.000 | PK | 48.32 | 37.05 | 7.13 | 41.47 | 1.83 | 52.86 | 73.90 | 21.0 | 145 | 100 | |
| Vert. | 11490.000 | PK | 46.81 | 40.08 | 8.56 | 40.34 | 1.83 | 56.94 | 73.90 | 16.9 | 150 | 0 | |
| Vert. | 17235.000 | PK | 44.26 | 42.32 | 11.03 | 39.98 | -9.54 | 48.09 | 73.90 | 25.8 | 150 | 0 | |
| Vert. | 7660.000 | AV | 38.34 | 37.05 | 7.13 | 41.47 | 1.83 | 42.88 | 53.90 | 11.0 | 145 | 100 | VBW:3.6 kHz |
| Vert. | 11490.000 | AV | 34.75 | 40.08 | 8.56 | 40.34 | 1.83 | 44.88 | 53.90 | 9.0 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 17235.000 | AV | 35.58 | 42.32 | 11.03 | 39.98 | -9.54 | 39.41 | 53.90 | 14.4 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

(Calculation) (above 1GHz Outside of the restricted band)

| | | (111. 1 0 0 0 0 | , m v. m verage, | Qr. Quasi rea | , | | | | | | | | | |
|----------|-----------|------------------|------------------|---------------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5650.000 | PK | 46.44 | 32.43 | 15.99 | 40.65 | 1.83 | 56.04 | -39.19 | -27.00 | 12.2 | 100 | 278 | |
| Hori. | 5700.000 | PK | 47.15 | 32.53 | 16.02 | 40.63 | 1.83 | 56.90 | -38.33 | 10.00 | 48.3 | 100 | 278 | 1 |
| Hori. | 5720.000 | PK | 51.15 | 32.57 | 16.03 | 40.62 | 1.83 | 60.96 | -34.27 | 15.60 | 49.9 | 100 | 278 | 1 |
| Hori. | 5725.000 | PK | 59.90 | 32.58 | 16.04 | 40.62 | 1.83 | 69.73 | -25.50 | 27.00 | 52.5 | 100 | 278 | 1 |
| Vert. | 5650.000 | PK | 46.44 | 32.43 | 15.99 | 40.65 | 1.83 | 56.04 | -39.19 | -27.00 | 12.2 | 100 | 7 | 1 |
| Vert. | 5700.000 | PK | 47.14 | 32.53 | 16.02 | 40.63 | 1.83 | 56.89 | -38.34 | 10.00 | 48.3 | 100 | 7 | 1 |
| Vert. | 5720.000 | PK | 56.79 | 32.57 | 16.03 | 40.62 | 1.83 | 66.60 | -28.63 | 15.60 | 44.2 | 100 | 7 | 1 |
| Vert. | 5725.000 | PK | 64.88 | 32.58 | 16.04 | 40.62 | 1.83 | 74.71 | -20.52 | 27.00 | 47.5 | 100 | 7 | i |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

 $Resrult(EIRP[dBm]) = 10*LOG \ ((\{\ 10\ \land\ (Electric\ Field\ Strength\ [dBuV/m]\ /\ 20\)*\ 10\ \land (-6)*\ Distance: 3[m]\)\ \land\ 2\ \}\ /\ 30)*\ 10\ \land\ 3)$ *The 4th harmonic was not seen so the result was its base noise level.

Distance factor: 1 GHz - 13 GHz: 20log (3.705 m/3.0 m) = 1.83 dB

13 GHz - 40 GHz : $20\log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor: 1 GHz - 13 GHz: 20log (3.705 m/3.0 m) = 1.83 dB 13 GHz - 40 GHz: 20log (1.0 m/3.0 m) = -9.54 dB

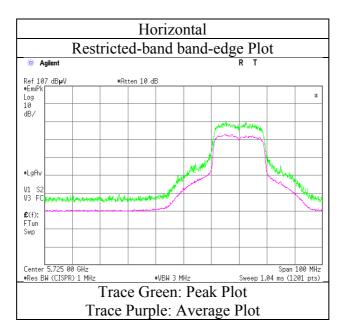
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FCC ID : YR7SKR3000P6

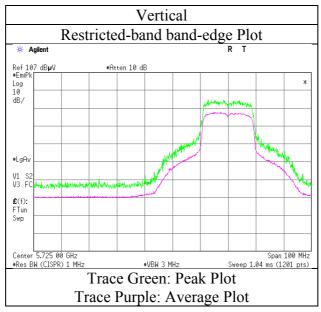
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11n-20 5745 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

Radiated Spurious Emission

| Report No. | 11253018S-B-R | .1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz - | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5785 | MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7713.322 | PK | 50.23 | 37.14 | 7.11 | 41.48 | 1.83 | 54.83 | 73.90 | 19.0 | 148 | 114 | |
| Hori. | 11570.000 | PK | 45.83 | 40.01 | 8.57 | 40.27 | 1.83 | 55.97 | 73.90 | 17.9 | 150 | 0 | |
| Hori. | 17355.000 | PK | 44.45 | 42.75 | 11.03 | 39.96 | -9.54 | 48.73 | 73.90 | 25.1 | 150 | 0 | |
| Hori. | 7713.322 | AV | 38.65 | 37.14 | 7.11 | 41.48 | 1.83 | 43.25 | 53.90 | 10.6 | 148 | 114 | VBW:3.6 kHz |
| Hori. | 11570.000 | AV | 34.44 | 40.01 | 8.57 | 40.27 | 1.83 | 44.58 | 53.90 | 9.3 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 17355.000 | AV | 35.82 | 42.75 | 11.03 | 39.96 | -9.54 | 40.10 | 53.90 | 13.8 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 7713.322 | PK | 49.58 | 37.14 | 7.11 | 41.48 | 1.83 | 54.18 | 73.90 | 19.7 | 148 | 87 | |
| Vert. | 11570.000 | PK | 44.97 | 40.01 | 8.57 | 40.27 | 1.83 | 55.11 | 73.90 | 18.7 | 150 | 0 | |
| Vert. | 17355.000 | PK | 43.80 | 42.75 | 11.03 | 39.96 | -9.54 | 48.08 | 73.90 | 25.8 | 150 | 0 | |
| Vert. | 7713.322 | AV | 39.04 | 37.14 | 7.11 | 41.48 | 1.83 | 43.64 | 53.90 | 10.2 | 148 | 87 | VBW:3.6 kHz |
| Vert. | 11570.000 | AV | 34.51 | 40.01 | 8.57 | 40.27 | 1.83 | 44.65 | 53.90 | 9.2 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 17355.000 | AV | 35.91 | 42.75 | 11.03 | 39.96 | -9.54 | 40.19 | 53.90 | 13.7 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

¹³ GHz - 40 GHz : $20\log(2.760 \text{ m/ } 3.0 \text{ m}) = -9.54 \text{ dB}$

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | 11 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 1 | 3 | 3 |
| Date | July 9, 2016 | July 10, 2016 | July 11, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 24 deg. C / | 25 deg. C / | 23 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 73 % RH | 68 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Yosuke | Shinichi | Shinichi | Shinichi | Yosuke |
| | Ishikawa | Takano | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5825 | MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| | | | | Q - 1 Q mmor - 1 m | | | | | | | | | |
|----------|-----------|----------|---------|--------------------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7766.678 | PK | 51.24 | 37.23 | 7.11 | 41.49 | 1.83 | 55.92 | 73.90 | 17.9 | 129 | 116 | |
| Hori. | 11650.000 | PK | 44.87 | 39.94 | 8.59 | 40.20 | 1.83 | 55.03 | 73.90 | 18.8 | 150 | 0 | |
| Hori. | 17475.000 | PK | 44.59 | 43.17 | 11.03 | 39.94 | -9.54 | 49.31 | 73.90 | 24.5 | 150 | 0 | |
| Hori. | 7766.678 | AV | 38.90 | 37.23 | 7.11 | 41.49 | 1.83 | 43.58 | 53.90 | 10.3 | 129 | 116 | VBW:3.6 kHz |
| Hori. | 11650.000 | AV | 34.29 | 39.94 | 8.59 | 40.20 | 1.83 | 44.45 | 53.90 | 9.4 | 150 | 0 | VBW:3.6 kHz |
| Hori. | 17475.000 | AV | 36.33 | 43.17 | 11.03 | 39.94 | -9.54 | 41.05 | 53.90 | 12.8 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 7766.678 | PK | 50.03 | 37.23 | 7.11 | 41.49 | 1.83 | 54.71 | 73.90 | 19.1 | 138 | 89 | |
| Vert. | 11650.000 | PK | 46.16 | 39.94 | 8.59 | 40.20 | 1.83 | 56.32 | 73.90 | 17.5 | 150 | 0 | |
| Vert. | 17475.000 | PK | 45.07 | 43.17 | 11.03 | 39.94 | -9.54 | 49.79 | 73.90 | 24.1 | 150 | 0 | |
| Vert. | 7766.678 | AV | 38.68 | 37.23 | 7.11 | 41.49 | 1.83 | 43.36 | 53.90 | 10.5 | 138 | 89 | VBW:3.6 kHz |
| Vert. | 11650.000 | AV | 34.86 | 39.94 | 8.59 | 40.20 | 1.83 | 45.02 | 53.90 | 8.8 | 150 | 0 | VBW:3.6 kHz |
| Vert. | 17475.000 | AV | 36.51 | 43.17 | 11.03 | 39.94 | -9.54 | 41.23 | 53.90 | 12.6 | 150 | 0 | VBW:3.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

(Calculation) (above 1GHz Outside of the restricted band)

| | | (* PK: Peak | , AV: Average, | QP: Quasi-Pea | k) | | | | | | | | | |
|----------|-----------|-------------|----------------|---------------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5850.000 | PK | 50.28 | 32.82 | 16.13 | 40.57 | 1.83 | 60.49 | -34.74 | 27.00 | 61.7 | 100 | 288 | |
| Hori. | 5855.000 | PK | 46.60 | 32.83 | 16.13 | 40.57 | 1.83 | 56.82 | -38.41 | 15.60 | 54.0 | 100 | 288 | |
| Hori. | 5875.000 | PK | 46.80 | 32.87 | 16.15 | 40.57 | 1.83 | 57.08 | -38.15 | 10.00 | 48.2 | 100 | 288 | |
| Hori. | 5925.000 | PK | 46.96 | 32.97 | 16.19 | 40.55 | 1.83 | 57.40 | -37.83 | -27.00 | 10.8 | 100 | 288 | |
| Vert. | 5850.000 | PK | 53.86 | 32.82 | 16.13 | 40.57 | 1.83 | 64.07 | -31.16 | 27.00 | 58.2 | 100 | 5 | |
| Vert. | 5855.000 | PK | 48.29 | 32.83 | 16.13 | 40.57 | 1.83 | 58.51 | -36.72 | 15.60 | 52.3 | 100 | 5 | |
| Vert. | 5875.000 | PK | 45.76 | 32.87 | 16.15 | 40.57 | 1.83 | 56.04 | -39.19 | 10.00 | 49.2 | 100 | 5 | |
| Vert. | 5925.000 | PK | 46.10 | 32.97 | 16.19 | 40.55 | 1.83 | 56.54 | -38.69 | -27.00 | 11.7 | 100 | 5 | |

 Vert.
 5925,000 PK
 46.10
 32.97
 16.19
 40.55
 1.83
 56.54
 -38.

 Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

 Resrult(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20)* 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30)*10^3)

Distance factor : 1 GHz - 13 GHz : 20log (3.705 m/ 3.0 m) = 1.83 dB

13 GHz - 40 GHz : $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

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^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor: 1 GHz - 13 GHz: $20 \log (3.705 \text{ m} / 3.0 \text{ m}) = 1.83 \text{ dB}$

¹³ GHz - 40 GHz : $20\log(3.00 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level.

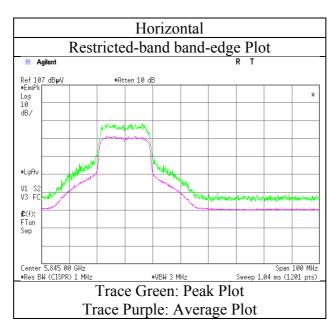
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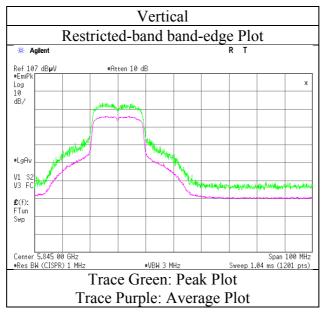
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 9, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 9, 2016
24 deg. C / 73 % RH
Yosuke Ishikawa
1 GHz – 6.4 GHz
Tx 11n-20 5825 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Issued date : November 7, 2016
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Radiated Spurious Emission

| Report No. | 11253018S-B-R | .1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, 2016 | July 11, 2016 | July 13, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz - | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5190 | MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5150.000 | PK | 46.98 | 32.04 | 15.63 | 41.02 | 1.83 | 55.46 | 73.90 | 18.4 | 100 | 27 | |
| Hori. | 6919.724 | PK | 51.15 | 36.26 | 6.85 | 40.89 | 1.83 | 55.20 | 73.90 | 18.7 | 124 | 104 | |
| Hori. | 10380.000 | PK | 47.96 | 39.21 | 8.00 | 40.37 | 1.83 | 56.63 | 73.90 | 17.2 | 150 | 0 | |
| Hori. | 15570.000 | PK | 45.33 | 39.88 | 10.65 | 40.21 | -9.54 | 46.11 | 73.90 | 27.7 | 150 | 0 | |
| Hori. | 5150.000 | AV | 37.86 | 32.04 | 15.63 | 41.02 | 1.83 | 46.34 | 53.90 | 7.5 | 100 | 27 | VBW:5.6 kHz |
| Hori. | 6919.724 | AV | 42.66 | 36.26 | 6.85 | 40.89 | 1.83 | 46.71 | 53.90 | 7.1 | 124 | 104 | VBW:5.6 kHz |
| Hori. | 10380.000 | AV | 36.97 | 39.21 | 8.00 | 40.37 | 1.83 | 45.64 | 53.90 | 8.2 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 15570.000 | AV | 35.80 | 39.88 | 10.65 | 40.21 | -9.54 | 36.58 | 53.90 | 17.3 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 5150.000 | PK | 46.87 | 32.04 | 15.63 | 41.02 | 1.83 | 55.35 | 73.90 | 18.5 | 127 | 359 | |
| Vert. | 6919.724 | PK | 50.43 | 36.26 | 6.85 | 40.89 | 1.83 | 54.48 | 73.90 | 19.4 | 100 | 98 | |
| Vert. | 10380.000 | PK | 46.95 | 39.21 | 8.00 | 40.37 | 1.83 | 55.62 | 73.90 | 18.2 | 150 | 0 | |
| Vert. | 15570.000 | PK | 44.87 | 39.88 | 10.65 | 40.21 | -9.54 | 45.65 | 73.90 | 28.2 | 150 | 0 | |
| Vert. | 5150.000 | AV | 37.74 | 32.04 | 15.63 | 41.02 | 1.83 | 46.22 | 53.90 | 7.6 | 127 | 359 | VBW:5.6 kHz |
| Vert. | 6919.724 | AV | 42.57 | 36.26 | 6.85 | 40.89 | 1.83 | 46.62 | 53.90 | 7.2 | 100 | 98 | VBW:5.6 kHz |
| Vert. | 10380.000 | AV | 37.03 | 39.21 | 8.00 | 40.37 | 1.83 | 45.70 | 53.90 | 8.2 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 15570.000 | | 35.85 | 39.88 | 10.65 | 40.21 | -9.54 | 36.63 | 53.90 | 17.2 | 150 | 0 | VBW:5.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Cain(Amprifier) + Distance factor

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^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : 20log (3.705 m / 3.0 m) = 1.83 dB

¹³ GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

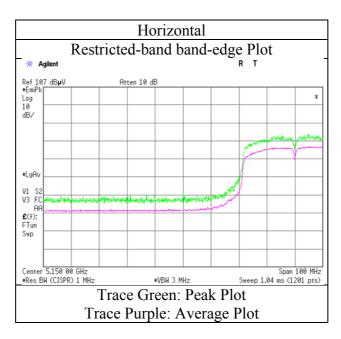
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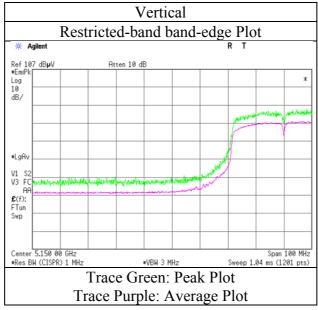
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 10, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 10, 2016
25 deg. C / 68 % RH
Shinichi Takano
1 GHz – 6.4 GHz
Tx 11n-40 5190 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

| Report No. | 11253018S-B-R | 11 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, 2016 | July 11, 2016 | July 13, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5230 | MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 6973.275 | PK | 49.49 | 36.42 | 6.87 | 40.90 | 1.83 | 53.71 | 73.90 | 20.1 | 126 | 107 | |
| Hori. | 10460.000 | PK | 46.61 | 39.42 | 7.97 | 40.39 | 1.83 | 55.44 | 73.90 | 18.4 | 150 | 0 | |
| Hori. | 15690.000 | PK | 44.48 | 39.69 | 10.72 | 40.12 | -9.54 | 45.23 | 73.90 | 28.6 | 150 | 0 | |
| Hori. | 6973.275 | AV | 41.38 | 36.42 | 6.87 | 40.90 | 1.83 | 45.60 | 53.90 | 8.3 | 126 | 107 | VBW:5.6 kHz |
| Hori. | 10460.000 | AV | 37.36 | 39.42 | 7.97 | 40.39 | 1.83 | 46.19 | 53.90 | 7.7 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 15690.000 | AV | 35.94 | 39.69 | 10.72 | 40.12 | -9.54 | 36.69 | 53.90 | 17.2 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 6973.275 | PK | 48.36 | 36.42 | 6.87 | 40.90 | 1.83 | 52.58 | 73.90 | 21.3 | 100 | 98 | |
| Vert. | 10460.000 | PK | 45.94 | 39.42 | 7.97 | 40.39 | 1.83 | 54.77 | 73.90 | 19.1 | 150 | 0 | |
| Vert. | 15690.000 | PK | 44.50 | 39.69 | 10.72 | 40.12 | -9.54 | 45.25 | 73.90 | 28.6 | 150 | 0 | |
| Vert. | 6973.275 | AV | 39.73 | 36.42 | 6.87 | 40.90 | 1.83 | 43.95 | 53.90 | 9.9 | 100 | 98 | VBW:5.6 kHz |
| Vert. | 10460.000 | AV | 37.47 | 39.42 | 7.97 | 40.39 | 1.83 | 46.30 | 53.90 | 7.6 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 15690.000 | AV | 36.08 | 39.69 | 10.72 | 40.12 | -9.54 | 36.83 | 53.90 | 17.0 | 150 | 0 | VBW:5.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

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Radiated Spurious Emission

| Report No. | 11253018S-B-F | R1 | | | |
|---------------------|----------------|------------------|------------------|------------------|------------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, 2016 | July 11, 2016 | July 13, 2016 | July 14, 2016 | July 16, 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5310 |) MHz | | | |

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| | | (Tre. roun | , Av. Average, | Qr. Quant rea | | | | | | | | | |
|----------|-----------|-------------|----------------|---------------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5350.000 | PK | 47.59 | 32.09 | 15.78 | 40.84 | 1.83 | 56.45 | 73.90 | 17.4 | 123 | 52 | |
| Hori. | 7080.000 | PK | 51.58 | 36.54 | 6.93 | 40.99 | 1.83 | 55.89 | 73.90 | 18.0 | 152 | 110 | |
| Hori. | 10620.000 | PK | 46.78 | 39.69 | 8.04 | 40.48 | 1.83 | 55.86 | 73.90 | 18.0 | 150 | 0 | |
| Hori. | 15930.000 | PK | 45.92 | 39.31 | 10.85 | 39.93 | -9.54 | 46.61 | 73.90 | 27.2 | 150 | 0 | |
| Hori. | 5350.000 | AV | 38.24 | 32.09 | 15.78 | 40.84 | 1.83 | 47.10 | 53.90 | 6.8 | 123 | 52 | VBW:5.6 kHz |
| Hori. | 7080.000 | AV | 42.48 | 36.54 | 6.93 | 40.99 | 1.83 | 46.79 | 53.90 | 7.1 | 152 | 110 | VBW:5.6 kHz |
| Hori. | 10620.000 | AV | 36.50 | 39.69 | 8.04 | 40.48 | 1.83 | 45.58 | 53.90 | 8.3 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 15930.000 | AV | 36.12 | 39.31 | 10.85 | 39.93 | -9.54 | 36.81 | 53.90 | 17.0 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 5350.000 | PK | 50.78 | 32.09 | 15.78 | 40.84 | 1.83 | 59.64 | 73.90 | 14.2 | 154 | 359 | |
| Vert. | 7080.000 | PK | 51.29 | 36.54 | 6.93 | 40.99 | 1.83 | 55.60 | 73.90 | 18.3 | 100 | 92 | |
| Vert. | 10620.000 | PK | 48.48 | 39.69 | 8.04 | 40.48 | 1.83 | 57.56 | 73.90 | 16.3 | 150 | 0 | |
| Vert. | 15930.000 | PK | 44.27 | 39.31 | 10.85 | 39.93 | -9.54 | 44.96 | 73.90 | 28.9 | 150 | 0 | |
| Vert. | 5350.000 | AV | 40.97 | 32.09 | 15.78 | 40.84 | 1.83 | 49.83 | 53.90 | 4.0 | 154 | 359 | VBW:5.6 kHz |
| Vert. | 7080.000 | AV | 42.24 | 36.54 | 6.93 | 40.99 | 1.83 | 46.55 | 53.90 | 7.3 | 100 | 92 | VBW:5.6 kHz |
| Vert. | 10620.000 | AV | 35.25 | 39.69 | 8.04 | 40.48 | 1.83 | 44.33 | 53.90 | 9.5 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 15930.000 | AV | 36.32 | 39.31 | 10.85 | 39.93 | -9.54 | 37.01 | 53.90 | 16.8 | 150 | 0 | VBW:5.6 kHz |

| Vert. | 13930.000|AV | 30.32| 39.31| 10.83| 39.93| -9.34| 37.01| 55:
| Result [dBuVm] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Cain(Amprifier) + Distance factor

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

*The 4th harmonic was not seen so the result was its base noise level.

Distance factor: 1 GHz - 13 GHz: 20log (3.705 m / 3.0 m) = 1.83 dB

13 GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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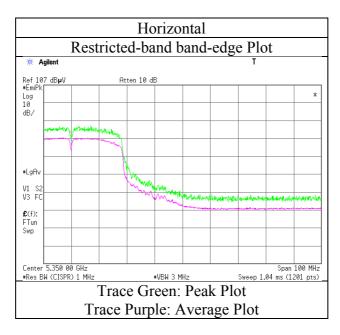
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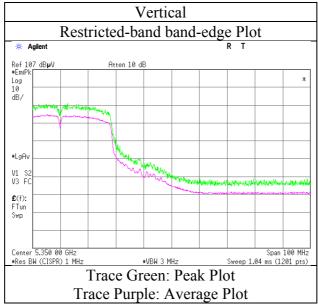
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 10, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 10, 2016
25 deg. C / 68 % RH
Shinichi Takano
1 GHz – 6.4 GHz
Tx 11n-40 5320 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

| Report No. | 11253018S-I | 3-R1 | | | |
|---------------------|--------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, | July 11, | July 13, | July 14, | July 16, |
| | 2016 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5: | 510 MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 5460.000 | PK | 46.64 | 32.12 | 15.86 | 40.74 | 1.83 | 55.71 | 73.90 | 18.1 | 153 | 275 | |
| Hori. | 7293.298 | PK | 47.91 | 36.66 | 7.06 | 41.22 | 1.83 | 52.24 | 73.90 | 21.6 | 149 | 120 | |
| Hori. | 11020.000 | PK | 46.95 | 40.19 | 8.30 | 40.72 | 1.83 | 56.55 | 73.90 | 17.3 | 150 | 0 | |
| Hori. | 16530.000 | PK | 44.33 | 40.28 | 11.19 | 39.87 | -9.54 | 46.39 | 73.90 | 27.5 | 150 | 0 | |
| Hori. | 5460.000 | AV | 36.87 | 32.12 | 15.86 | 40.74 | 1.83 | 45.94 | 53.90 | 7.9 | 153 | 275 | VBW:5.6 kHz |
| Hori. | 7293.298 | AV | 38.07 | 36.66 | 7.06 | 41.22 | 1.83 | 42.40 | 53.90 | 11.5 | 149 | 120 | VBW:5.6 kHz |
| Hori. | 11020.000 | AV | 36.68 | 40.19 | 8.30 | 40.72 | 1.83 | 46.28 | 53.90 | 7.6 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 16530.000 | AV | 35.98 | 40.28 | 11.19 | 39.87 | -9.54 | 38.04 | 53.90 | 15.8 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 5460.000 | PK | 47.21 | 32.12 | 15.86 | 40.74 | 1.83 | 56.28 | 73.90 | 17.6 | 153 | 267 | |
| Vert. | 7293.298 | PK | 48.26 | 36.66 | 7.06 | 41.22 | 1.83 | 52.59 | 73.90 | 21.3 | 100 | 89 | |
| Vert. | 11020.000 | PK | 47.74 | 40.19 | 8.30 | 40.72 | 1.83 | 57.34 | 73.90 | 16.5 | 150 | 0 | |
| Vert. | 16530.000 | PK | 44.32 | 40.28 | 11.19 | 39.87 | -9.54 | 46.38 | 73.90 | 27.5 | 150 | 0 | |
| Vert. | 5460.000 | AV | 37.79 | 32.12 | 15.86 | 40.74 | 1.83 | 46.86 | 53.90 | 7.0 | 153 | 267 | VBW:5.6 kHz |
| Vert. | 7293.298 | AV | 37.73 | 36.66 | 7.06 | 41.22 | 1.83 | 42.06 | 53.90 | 11.8 | 100 | 89 | VBW:5.6 kHz |
| Vert. | 11020.000 | AV | 36.89 | 40.19 | 8.30 | 40.72 | 1.83 | 46.49 | 53.90 | 7.4 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 16530.000 | | 35.84 | 40.28 | 11.19 | 39.87 | -9.54 | 37.90 | | 16.0 | 150 | 0 | VBW:5.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

Distance factor : 1 GHz - 13 GHz : 20log (3.705 m / 3.0 m) = 1.83 dB13 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5470.000 | PK | 48.18 | 32.12 | 15.87 | 40.73 | 1.83 | 57.27 | -37.93 | -27.00 | 10.9 | 153 | 275 | |
| Vert. | 5470.000 | PK | 50.30 | 32.12 | 15.87 | 40.73 | 1.83 | 59.39 | -35.81 | -27.00 | 8.8 | 153 | 267 | |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

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^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level.

Resrult(EIRP[dBm])=10*LOG (({ 10^(Electric Field Strength [dBuV/m] / 20) * 10^(-6) * Distance:3[m])^2 } / 30) *10^3)

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

*The 4th harmonic was not seen so the result was its base noise level.

Distance factor: 1 GHz - 13 GHz: 20log (3.705 m/ 3.0 m) = 1.83 dB

13 GHz - 40 GHz: 20log (1.0 m/ 3.0 m) = -9.54 dB

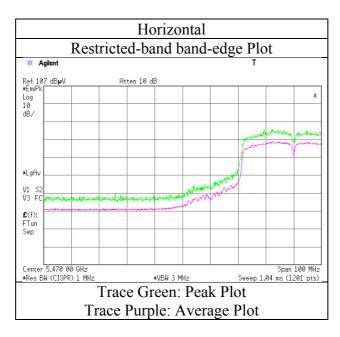
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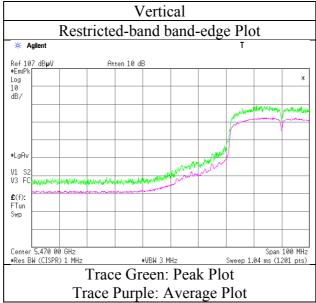
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 10, 2016
Temperature / Humidity
Engineer
Test frequency band
Mode
July 10, 2016
25 deg. C / 68 % RH
Shinichi Takano
1 GHz – 6.4 GHz
Tx 11n-40 5510 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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

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Radiated Spurious Emission

| Report No. | 11253018S-I | B-R1 | | | |
|---------------------|--------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, | July 11, | July 13, | July 14, | July 16, |
| | 2016 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz - |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5: | 550 MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7440.789 | PK | 46.99 | 36.74 | 7.14 | 41.37 | 1.83 | 51.33 | 73.90 | 22.5 | 153 | 127 | |
| Hori. | 11100.000 | PK | 47.04 | 40.17 | 8.34 | 40.66 | 1.83 | 56.72 | 73.90 | 17.1 | 150 | 0 | |
| Hori. | 16650.000 | PK | 45.26 | 40.52 | 11.21 | 39.91 | -9.54 | 47.54 | 73.90 | 26.3 | 150 | 0 | |
| Hori. | 7440.789 | AV | 35.75 | 36.74 | 7.14 | 41.37 | 1.83 | 40.09 | 53.90 | 13.8 | 153 | 127 | VBW:5.6 kHz |
| Hori. | 11100.000 | AV | 36.98 | 40.17 | 8.34 | 40.66 | 1.83 | 46.66 | 53.90 | 7.2 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 16650.000 | AV | 36.50 | 40.52 | 11.21 | 39.91 | -9.54 | 38.78 | 53.90 | 15.1 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 7440.789 | PK | 46.96 | 36.74 | 7.14 | 41.37 | 1.83 | 51.30 | 73.90 | 22.6 | 100 | 96 | |
| Vert. | 11100.000 | PK | 47.14 | 40.17 | 8.34 | 40.66 | 1.83 | 56.82 | 73.90 | 17.0 | 150 | 0 | |
| Vert. | 16650.000 | PK | 44.48 | 40.52 | 11.21 | 39.91 | -9.54 | 46.76 | 73.90 | 27.1 | 150 | 0 | |
| Vert. | 7440.789 | AV | 35.82 | 36.74 | 7.14 | 41.37 | 1.83 | 40.16 | 53.90 | 13.7 | 100 | 96 | VBW:5.6 kHz |
| Vert. | 11100.000 | AV | 36.93 | 40.17 | 8.34 | 40.66 | 1.83 | 46.61 | 53.90 | 7.2 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 16650.000 | | 36.28 | 40.52 | 11.21 | 39.91 | -9.54 | 38.56 | 53.90 | 15.3 | 150 | 0 | VBW:5.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor *Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

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

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

¹³ GHz - 40 GHz : $20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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Radiated Spurious Emission

| Report No. | 11253018S- | B-R1 | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, | July 11, | July 13, | July 14, | July 16, |
| | 2016 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5 | 670 MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7596.062 | PK | 47.45 | 36.94 | 7.15 | 41.45 | 1.83 | 51.92 | 73.90 | 21.9 | 141 | 114 | |
| Hori. | 11340.000 | PK | 46.09 | 40.12 | 8.47 | 40.46 | 1.83 | 56.05 | 73.90 | 17.8 | 150 | 0 | |
| Hori. | 17010.000 | PK | 44.28 | 41.26 | 11.28 | 40.03 | -9.54 | 47.25 | 73.90 | 26.6 | 150 | 0 | |
| Hori. | 7596.062 | AV | 36.77 | 36.94 | 7.15 | 41.45 | 1.83 | 41.24 | 53.90 | 12.6 | 141 | 114 | VBW:5.6 kHz |
| Hori. | 11340.000 | AV | 35.59 | 40.12 | 8.47 | 40.46 | 1.83 | 45.55 | 53.90 | 8.3 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 17010.000 | AV | 36.51 | 41.26 | 11.28 | 40.03 | -9.54 | 39.48 | 53.90 | 14.4 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 7596.062 | PK | 48.39 | 36.94 | 7.15 | 41.45 | 1.83 | 52.86 | 73.90 | 21.0 | 100 | 89 | |
| Vert. | 11340.000 | PK | 47.44 | 40.12 | 8.47 | 40.46 | 1.83 | 57.40 | 73.90 | 16.5 | 150 | 0 | |
| Vert. | 17010.000 | PK | 44.52 | 41.26 | 11.28 | 40.03 | -9.54 | 47.49 | 73.90 | 26.4 | 150 | 0 | |
| Vert. | 7596.062 | AV | 37.02 | 36.94 | 7.15 | 41.45 | 1.83 | 41.49 | 53.90 | 12.4 | 100 | 89 | VBW:5.6 kHz |
| Vert. | 11340.000 | AV | 36.56 | 40.12 | 8.47 | 40.46 | 1.83 | 46.52 | 53.90 | 7.3 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 17010.000 | AV | 36.49 | 41.26 | 11.28 | 40.03 | -9.54 | 39.46 | 53.90 | 14.4 | 150 | 0 | VBW:5.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

 $13 \text{ GHz} - 40 \text{ GHz} : 20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ $13 \text{ GHz} - 40 \text{ GHz} : 20\log(1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5725.000 | PK | 46.82 | 32.58 | 16.04 | 40.62 | 1.83 | 56.65 | -38.55 | -27.00 | 11.6 | 159 | 286 | |
| Vert. | 5725.000 | PK | 46.87 | 32.58 | 16.04 | 40.62 | 1.83 | 56.70 | -38.50 | -27.00 | 11.5 | 110 | 349 | |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

Partitly [dPp] - 10*1 OC. ((1.10 \(\) Electric Field Strength (dPp) V/m) / 20) * 10 \(\) (6) * Distance 2[m] \(\) \(\) 21 / 20) * 10(2)

*The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log (3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$ $13 \text{ GHz} - 40 \text{ GHz} : <math>20\log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705 \text{ m}/3.0 \text{ m}) = 1.83 \text{ dB}$

Resrult(EIRP[dBm])=10*LOG (({ 10^(Electric Field Strength [dBuV/m] / 20) * 10^(-6) * Distance:3[m])^2 } / 30) *10^3)

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

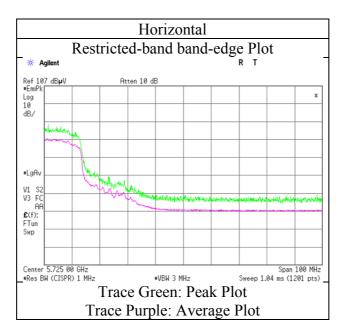
Test report No. : 11253018S-B-R1
Page : 110 of 120
Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

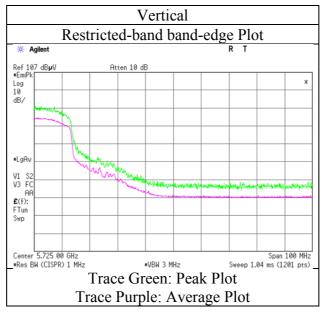
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 10, 2016
Temperature / Humidity
Engineer
Shinichi Takano
Test frequency band
Mode
July 10, 2016
25 deg. C / 68 % RH
Shinichi Takano
1 GHz – 6.4 GHz
Tx 11n-40 5670 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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

Test report No. : 11253018S-B-R1 Page : 111 of 120 Issued date : November 7, 2016 FCC ID : YR7SKR3000P6

Radiated Spurious Emission

| Report No. | 11253018S-I | 3-R1 | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, | July 11, | July 13, | July 14, | July 16, |
| | 2016 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5 | 755 MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7660.596 | PK | 47.89 | 37.05 | 7.13 | 41.47 | 1.83 | 52.43 | 73.90 | 21.4 | 160 | 125 | |
| Hori. | 11510.000 | PK | 46.03 | 40.07 | 8.56 | 40.32 | 1.83 | 56.17 | 73.90 | 17.7 | 150 | 0 | |
| Hori. | 17265.000 | PK | 44.28 | 42.10 | 11.34 | 39.98 | -9.54 | 48.20 | 73.90 | 25.7 | 150 | 0 | |
| Hori. | 7660.596 | AV | 37.24 | 37.05 | 7.13 | 41.47 | 1.83 | 41.78 | 53.90 | 12.1 | 160 | 125 | VBW:5.6 kHz |
| Hori. | 11510.000 | AV | 34.87 | 40.07 | 8.56 | 40.32 | 1.83 | 45.01 | 53.90 | 8.8 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 17265.000 | AV | 35.75 | 42.10 | 11.34 | 39.98 | -9.54 | 39.67 | 53.90 | 14.2 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 7660.596 | PK | 47.88 | 37.05 | 7.13 | 41.47 | 1.83 | 52.42 | 73.90 | 21.4 | 100 | 97 | |
| Vert. | 11510.000 | PK | 45.46 | 40.07 | 8.56 | 40.32 | 1.83 | 55.60 | 73.90 | 18.3 | 150 | 0 | |
| Vert. | 17265.000 | PK | 43.94 | 42.10 | 11.34 | 39.98 | -9.54 | 47.86 | 73.90 | 26.0 | 150 | 0 | |
| Vert. | 7660.596 | AV | 37.76 | 37.05 | 7.13 | 41.47 | 1.83 | 42.30 | 53.90 | 11.6 | 100 | 97 | VBW:5.6 kHz |
| Vert. | 11510.000 | AV | 34.78 | 40.07 | 8.56 | 40.32 | 1.83 | 44.92 | 53.90 | 8.9 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 17265.000 | AV | 35.64 | 42.10 | 11.34 | 39.98 | -9.54 | 39.56 | 53.90 | 14.3 | 150 | 0 | VBW:5.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

(Calculation) (above 1GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak) Margin Polarity Detector Reading Ant.Fac Distance Result esult (EIRI Height Angle Remark [MHz] [dBuV] [dB/m] [dB] [dB] Factor [dB] [dBuV/m] [dBm] [dBm] [dB] [cm] Hori. 5650.000 15.9 40.6 10.7 Hori. 5700.000 PK 46.26 32.53 16.02 40.63 1.83 56.01 -39.19 10.00 49.2 134 283 5720.000 PK 57.11 32.5 16.03 40.62 -28.28 134 Hori 5723 644 PK 57.79 32.57 16.03 40.62 1.83 67.60 -27.60 -27.59 23 91 51.5 283 57.78 27.00 5725.000 PK 32.58 67.61 54.6 283 Hori. 16.04 40.62 1.83 5650.000 PK 46.79 32.43 15.99 56.39 -38.81 -27.00 11.8 158 359 Vert. 40.65 1.83 5700.000 PK 46.87 32.53 16.02 40.63 1.83 -38.58 10.00 158 359 Vert. 56.62 Vert. 5720.000 PK 59.64 32.57 16.03 40.62 1.83 69.45 -25.75 15.60 41.4 158 359 359 Vert. 5723 644 PK 62.12 32.57 16.03 40.62 1.83 71 93 -23 27 23 91 47.2 158 32.58 27.00 359 Vert. 5725.000 PK 61.51 16.04 40.62 1.83 71.34 -23.80

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amprifier) + Distance factor

13 GHz - 40 GHz: $20\log (1.0 \text{ m}/3.0 \text{ m}) = -9.54 \text{ dB}$

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^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor: 1 GHz - 13 GHz: $20 \log (3.705 \text{ m} / 3.0 \text{ m}) = 1.83 \text{ dB}$

¹³ GHz - 40 GHz : 20log (1.0 m/3.0 m) = -9.54 dB

Resrult(EIRP[dBm])=10*LOG (({ 10^(Electric Field Strength [dBuV/m] / 20) * 10^(-6) * Distance:3[m])^2 } / 30) *10^3)

^{*}Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : 20log (3.705 m / 3.0 m) = 1.83 dB

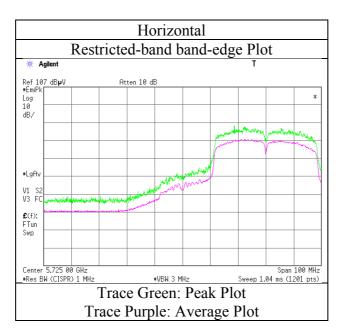
Test report No. : 11253018S-B-R1
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Issued date : November 7, 2016
FCC ID : YR7SKR3000P6

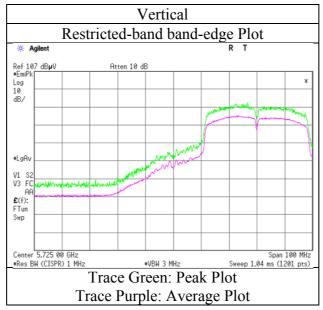
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date
July 10, 2016
Temperature / Humidity
Engineer
Shinichi Takano
Test frequency band
Mode
July 10, 2016
25 deg. C / 68 % RH
Shinichi Takano
1 GHz – 6.4 GHz
Tx 11n-40 5755 MHz





^{*} Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

| Report No. | 11253018S-I | 3-R1 | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 1 | 1 | 3 | 3 | 3 |
| Date | July 10, | July 11, | July 13, | July 14, | July 16, |
| | 2016 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 25 deg. C / | 23 deg. C / | 24 deg. C / | 23 deg. C / | 23 deg. C / |
| Humidity | 68 % RH | 61 % RH | 62 % RH | 60 % RH | 60 % RH |
| Engineer | Shinichi | Takahiro | Shinichi | Shinichi | Yosuke |
| | Takano | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-40 5 | 795 MHz | | | |

(below 1GHz and above 1GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

| | | | , | | | | | | | | | | |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|----------|--------|--------|--------|-------------|
| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Limit | Margin | Height | Angle | Remark |
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBuV/m] | [dB] | [cm] | [deg.] | |
| Hori. | 7713.039 | PK | 49.89 | 37.14 | 7.12 | 41.48 | 1.83 | 54.50 | 73.90 | 19.4 | 156 | 127 | |
| Hori. | 11590.000 | PK | 44.61 | 40.00 | 8.57 | 40.25 | 1.83 | 54.76 | 73.90 | 19.1 | 150 | 0 | |
| Hori. | 17385.000 | PK | 45.29 | 42.49 | 11.37 | 39.95 | -9.54 | 49.66 | 73.90 | 24.2 | 150 | 0 | |
| Hori. | 7713.039 | AV | 38.77 | 37.14 | 7.12 | 41.48 | 1.83 | 43.38 | 53.90 | 10.5 | 156 | 127 | VBW:5.6 kHz |
| Hori. | 11590.000 | AV | 34.75 | 40.00 | 8.57 | 40.25 | 1.83 | 44.90 | 53.90 | 9.0 | 150 | 0 | VBW:5.6 kHz |
| Hori. | 17385.000 | AV | 36.07 | 42.49 | 11.37 | 39.95 | -9.54 | 40.44 | 53.90 | 13.4 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 7713.039 | PK | 48.82 | 37.14 | 7.12 | 41.48 | 1.83 | 53.43 | 73.90 | 20.4 | 100 | 85 | |
| Vert. | 11590.000 | PK | 44.92 | 40.00 | 8.57 | 40.25 | 1.83 | 55.07 | 73.90 | 18.8 | 150 | 0 | |
| Vert. | 17385.000 | PK | 44.94 | 42.49 | 11.37 | 39.95 | -9.54 | 49.31 | 73.90 | 24.5 | 150 | 0 | |
| Vert. | 7713.039 | AV | 38.44 | 37.14 | 7.12 | 41.48 | 1.83 | 43.05 | 53.90 | 10.8 | 100 | 85 | VBW:5.6 kHz |
| Vert. | 11590.000 | AV | 34.50 | 40.00 | 8.57 | 40.25 | 1.83 | 44.65 | 53.90 | 9.2 | 150 | 0 | VBW:5.6 kHz |
| Vert. | 17385.000 | AV | 36.17 | 42.49 | 11.37 | 39.95 | -9.54 | 40.54 | 53.90 | 13.3 | 150 | 0 | VBW:5.6 kHz |

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter/Delow 18 (7412)) - Cain(Amprifier) + Distance factor *Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

13 GHz - 40 GHz : 20log (1.0 m/3.0 m) = -9.54 dB

(Calculation) (above 1GHz Outside of the restricted band)

| Polarity | Frequency | Detector | Reading | Ant.Fac. | Loss | Gain | Distance | Result | Result (EIRP) | Limit | Margin | Height | Angle | Remark |
|----------|-----------|----------|---------|----------|-------|-------|-------------|----------|---------------|--------|--------|--------|--------|--------|
| | [MHz] | | [dBuV] | [dB/m] | [dB] | [dB] | Factor [dB] | [dBuV/m] | [dBm] | [dBm] | [dB] | [cm] | [deg.] | |
| Hori. | 5850.000 | PK | 46.44 | 32.82 | 16.13 | 40.57 | 1.83 | 56.65 | -38.55 | 27.00 | 65.6 | 137 | 290 | |
| Hori. | 5855.000 | PK | 46.26 | 32.83 | 16.13 | 40.57 | 1.83 | 56.48 | -38.72 | 15.60 | 54.3 | 137 | 290 | |
| Hori. | 5875.000 | PK | 46.39 | 32.87 | 16.15 | 40.57 | 1.83 | 56.67 | -38.53 | 10.00 | 48.5 | 137 | 290 | |
| Hori. | 5925.000 | PK | 46.82 | 32.97 | 16.19 | 40.55 | 1.83 | 57.26 | -37.94 | -27.00 | 10.9 | 137 | 290 | |
| Vert. | 5850.000 | PK | 46.20 | 32.82 | 16.13 | 40.57 | 1.83 | 56.41 | -38.79 | 27.00 | 65.8 | 161 | 348 | |
| Vert. | 5855.000 | PK | 45.62 | 32.83 | 16.13 | 40.57 | 1.83 | 55.84 | -39.36 | 15.60 | 55.0 | 161 | 348 | |
| Vert. | 5875.000 | PK | 45.85 | 32.87 | 16.15 | 40.57 | 1.83 | 56.13 | -39.07 | 10.00 | 49.1 | 161 | 348 | |
| Vert. | 5925.000 | PK | 47.36 | 32.97 | 16.19 | 40.55 | 1.83 | 57.80 | -37.40 | -27.00 | 10.4 | 161 | 348 | |

 $Result \ [dBuV/m] = Reading + Ant.Fac. + Loss \ (Cable+(Attenuator\ or\ Filter)(below\ 18\ GHz)) - Gain(Amprifier) + Distance\ factor\ Resrult(EIRP[dBm]) = 10*LOG\ ((\{10^{(10)} (Electric\ Field\ Strength\ [dBuV/m]\ /\ 20\)*10^{(-6)}*Distance\ 3[m]\)^2 \}\ /\ 30)*10^3)$

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^{*}The 4th harmonic was not seen so the result was its base noise level. Distance factor : 1 GHz - 13 GHz : $20\log(3.705\text{ m}/3.0\text{ m}) = 1.83\text{ dB}$

^{**}Nother frequency noises omitted in this report were not seen or have enough margin (more than 20dB).
*The 4th harmonic was not seen so the result was its base noise level.

Distance factor: 1 GHz - 13 GHz: 20log (3.705 m/ 3.0 m) = 1.83 dB

13 GHz - 40 GHz: 20log (1.0 m/ 3.0 m) = -9.54 dB

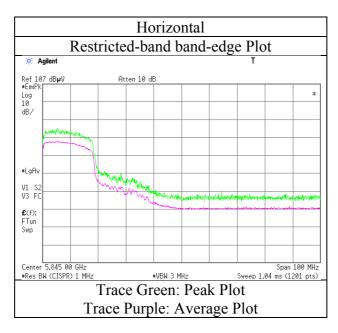
Test report No. : 11253018S-B-R1
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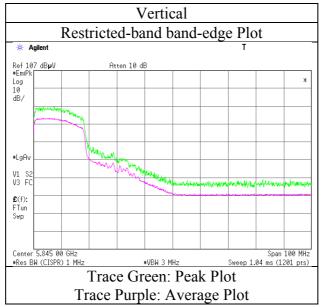
Radiated Spurious Emission

Report No. 11253018S-B-R1

Test place(AC No.)

Date July 9, 2016
Temperature / Humidity 24 deg. C / 73 % RH
Engineer Yosuke Ishikawa
Test frequency band 1 GHz – 6.4 GHz
Mode Tx 11a 5825 MHz





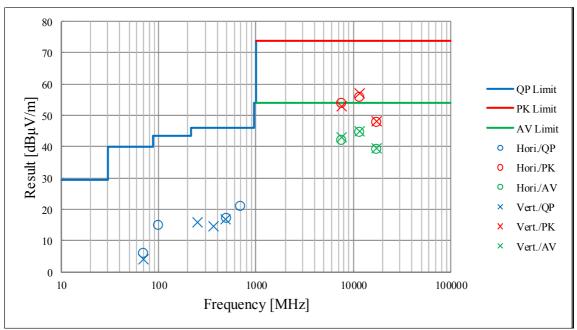
^{*} Final result of restricted band edge was shown in tabular data.

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Test report No. : 11253018S-B-R1
Page : 115 of 120
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Radiated Spurious Emission (Plot data, Worst case)

| Report No. | 11253018S-I | 3-R1 | | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Test place(AC No.) | 3 | 1 | 1 | 1 | 3 | 3 |
| Date | July 17, | July 9, | July 11, | July 11, | July 14, | July 16, |
| | 2016 | 2016 | 2016 | 2016 | 2016 | 2016 |
| Temperature / | 24 deg. C / | 24 deg. C / | 23 deg. C / |
| Humidity | 58 % RH | 73 % RH | 61 % RH | 63 % RH | 60 % RH | 60 % RH |
| Engineer | Wataru | Yosuke | Takahiro | Shinichi | Shinichi | Yosuke |
| | Kojima | Ishikawa | Suzuki | Takano | Takano | Ishikawa |
| Test frequency band | 30 MHz – | 1 GHz – | 6.4 GHz – | 13 GHz – | 18 GHz – | 26 GHz – |
| | 1 GHz | 6.4 GHz | 13 GHz | 18 GHz | 26 GHz | 40 GHz |
| Mode | Tx 11n-20 5 | 745 MHz | | | | |



^{*}These plots data contains sufficient number to show the trend of characteristic features for EUT.

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

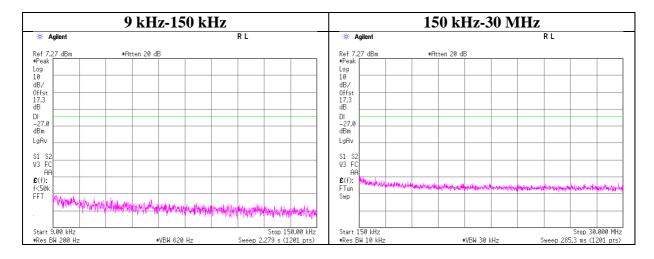
Test report No. : 11253018S-B-R1
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Conducted Spurious Emission

Test place Shonan EMC Lab. No.5 Shielded Room

Report No. 11253018S-B-R1
Date July 11, 2016
Temperature / Humidity 23 deg. C / 45 % RH
Engineer Yosuke Ishikawa

Mode Tx 11n-20 (MIMO) 5745 MHz



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APPENDIX 2: Test instruments

| Control No. | Instrument | Manufacturer | Model No | Serial No | Test Item | Calibration Date * Interval(month) |
|--------------------|-----------------------|--|----------------------------|---------------|-----------|------------------------------------|
| KSA-08 | Spectrum Analyzer | Agilent | E4446A | MY46180525 | AT | 2016/03/28 * 12 |
| SPM-07 | Power Meter | Agilent | 8990B | MY5100272 | AT | 2016/04/04 * 12 |
| SPSS-04 | Power sensor | Agilent | N1923A | MY5326009 | AT | 2016/04/04 * 12 |
| SCC-G13 | Coaxial Cable | Suhner | SUCOFLEX 102 | 31599/2 | AT | 2016/03/23 * 12 |
| SAT10-10 | Attenuator | Weinschel Corp. | 54A-10 | 37584 | AT | 2016/04/18 * 12 |
| STM-G4 | Terminator | Weinschel | M1459A | U6592 | AT | 2015/07/14 * 12 |
| SOS-09 | Humidity Indicator | A&D | AD-5681 | 4061484 | AT | 2015/12/07 * 12 |
| STS-05 | Digital Hitester | Hioki | 3805-50 | 080997828 | AT | 2015/11/18 * 12 |
| SAF-04 | Pre Amplifier | TOYO Corporation | TPA0118-36 | 1440489 | RE | 2016/03/22 * 12 |
| SCC-G06 | Coaxial Cable | Junkosha | J12J102207-00 | MAY-23-16-091 | RE | 2016/06/14 * 12 |
| SCC-G21 | Coaxial Cable | Suhner | SUCOFLEX 104 | 296169/4 | RE | 2016/05/11 * 12 |
| SHA-01 | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-725 | RE | 2015/08/10 * 12 |
| SOS-01 | Humidity Indicator | A&D | AD-5681 | 4062555 | RE | 2015/10/22 * 12 |
| SSA-02 | Spectrum Analyzer | Agilent | E4448A | MY48250106 | RE | 2016/03/23 * 12 |
| SJM-02 | Measure | KOMELON | KMC-36 | - | RE | - |
| SAEC-01(SVS WR) | Semi-Anechoic Chamber | TDK | SAEC-01(SVSWR) | 1 | RE | 2015/07/08 * 12 |
| COTS-SEMI-1 | EMI Software | TSJ | TEPTO-DV(RE,CE, RFI,MF) | - | RE | - |
| STS-01 | Digital Hitester | Hioki | 3805-50 | 080997812 | RE | 2015/11/18 * 12 |
| SAT10-05 | Attenuator(above1GHz) | Agilent | 8493C-010 | 74864 | RE | 2015/11/04 * 12 |
| SFL-03 | Highpass Filter | MICRO-TRONICS | HPM50112 | 028 | RE | 2015/11/16 * 12 |
| SCC-G04 | Coaxial Cable | Junkosha | J12J102207-00 | JUN-12-14-018 | RE | 2016/06/23 * 12 |
| SCC-G23 | Coaxial Cable | Suhner | SUCOFLEX 104 | 297342/4 | RE | 2016/05/11 * 12 |
| SHA-03 | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-739 | RE | 2015/08/11 * 12 |
| SOS-05 | Humidity Indicator | A&D | AD-5681 | 4062518 | RE | 2015/10/22 * 12 |
| SJM-15 | Measure | ASKUL | - | - | RE | - |
| SAEC-03(SVS WR) | Semi-Anechoic Chamber | TDK | SAEC-03(SVSWR) | 3 | RE | 2015/08/28 * 12 |
| STS-03 | Digital Hitester | Hioki | 3805-50 | 080997823 | RE | 2015/11/18 * 12 |
| SHA-04 | Horn Antenna | ETS LINDGREN | 3160-09 | LM3640 | RE | 2016/03/15 * 12 |
| SAF-08 | Pre Amplifier | TOYO Corporation | HAP18-26W | 00000019 | RE | 2016/03/23 * 12 |
| SCC-G15 | Coaxial Cable | Suhner | SUCOFLEX 102 | 32703/2 | RE | 2016/03/08 * 12 |
| SCC-G33 | Coaxial Cable | Junkosha | MWX241-01000KM SKMS | - | RE | 2016/04/18 * 12 |
| SHA-06 | Horn Antenna | ETS LINDGREN | 3160-10 | LM3459 | RE | 2016/03/24 * 12 |
| SAF-10 | Pre Amplifier | TOYO Corporation | HAP26-40W | 00000010 | RE | 2016/03/23 * 12 |
| SSA-03 | Spectrum Analyzer | Agilent | E4448A | MY48250152 | RE | 2015/09/16 * 12 |
| SCC-G19 | Coaxial Cable | Suhner | SUCOFLEX 102A | 1188/2A | RE | 2016/03/08 * 12 |
| SAJ-01 | Antenna Tilt Jig | Intelligent System Engineering Co., Ltd | Antenna Tilt Jig | T-S001 | RE | Pre Check |

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| Control No. | Instrument | Manufacturer | Model No | Serial No | Test Item | Calibration Date * Interval(month) |
|-----------------------|-----------------------|---------------------------------|---------------------------------|--------------|-----------|------------------------------------|
| SAEC-03(NSA) | Semi-Anechoic Chamber | TDK | SAEC-03(NSA) | 3 | RE | 2015/07/16 * 12 |
| SBA-03 | Biconical Antenna | Schwarzbeck | BBA9106 | 91032666 | RE | 2015/10/11 * 12 |
| SLA-03 | Logperiodic Antenna | Schwarzbeck | UHALP9108A | UHALP | RE | 2015/10/11 * 12 |
| | | | | 9108-A 0901 | | |
| SAT6-08 | Attenuator | HIROSE ELECTRIC CO.,LTD. | AT-406(40) | - | RE | 2015/08/31 * 12 |
| SCC-C1/C2/C3/ | Coaxial Cable&RF | Fujikura/Fujikura/Suhne | 8D2W/12DSFA/141 | -/0901-271(R | RE | 2016/04/22 * 12 |
| C4/C5/C10/SRS E-03 | Selector | r/Suhner/Suhner/Suhner/ TOYO | PE/141PE/141PE/14 1PE/NS4906 | F Selector) | | |
| SAF-03 | Pre Amplifier | SONOMA | 310N | 290213 | RE | 2016/02/25 * 12 |
| STR-06 | Test Receiver | Rohde & Schwarz | ESCI | 101259 | RE | 2016/03/28 * 12 |
| SOS-05 | Humidity Indicator | A&D | AD-5681 | 4062518 | RE | 2015/10/22 * 12 |
| SJM-15 | Measure | ASKUL | - | - | RE | - |
| STS-03 | Digital Hitester | Hioki | 3805-50 | 080997823 | RE | 2015/11/18 * 12 |

The expiration date of the calibration is the end of the expired month. All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

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

Test Item: RE: Radiated Emission

AT: Antenna Terminal Conducted test

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