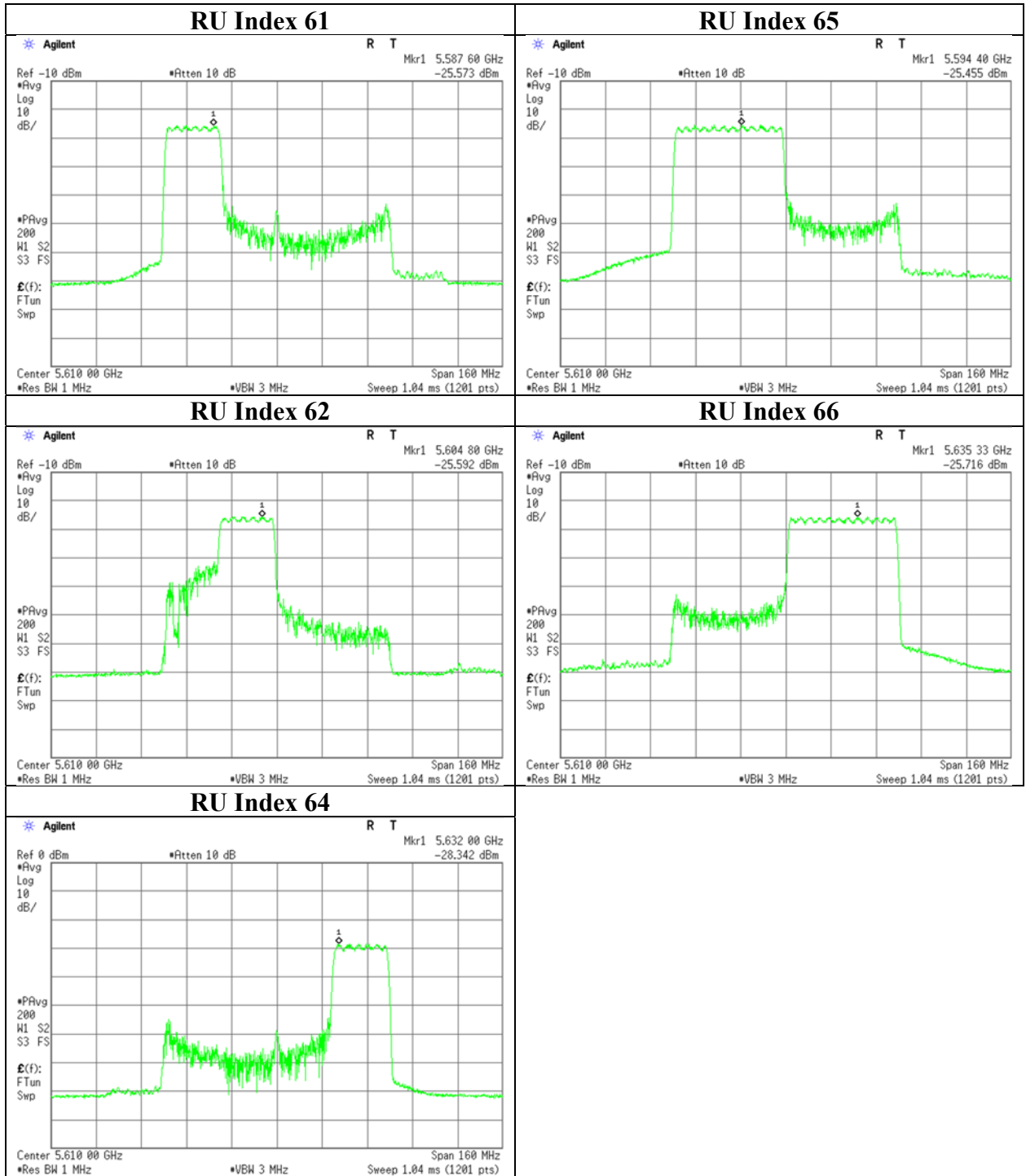


Maximum Power Spectral Density

11ax-80, Antenna 3

242-tone RU 5610 MHz

484-tone RU 5610 MHz



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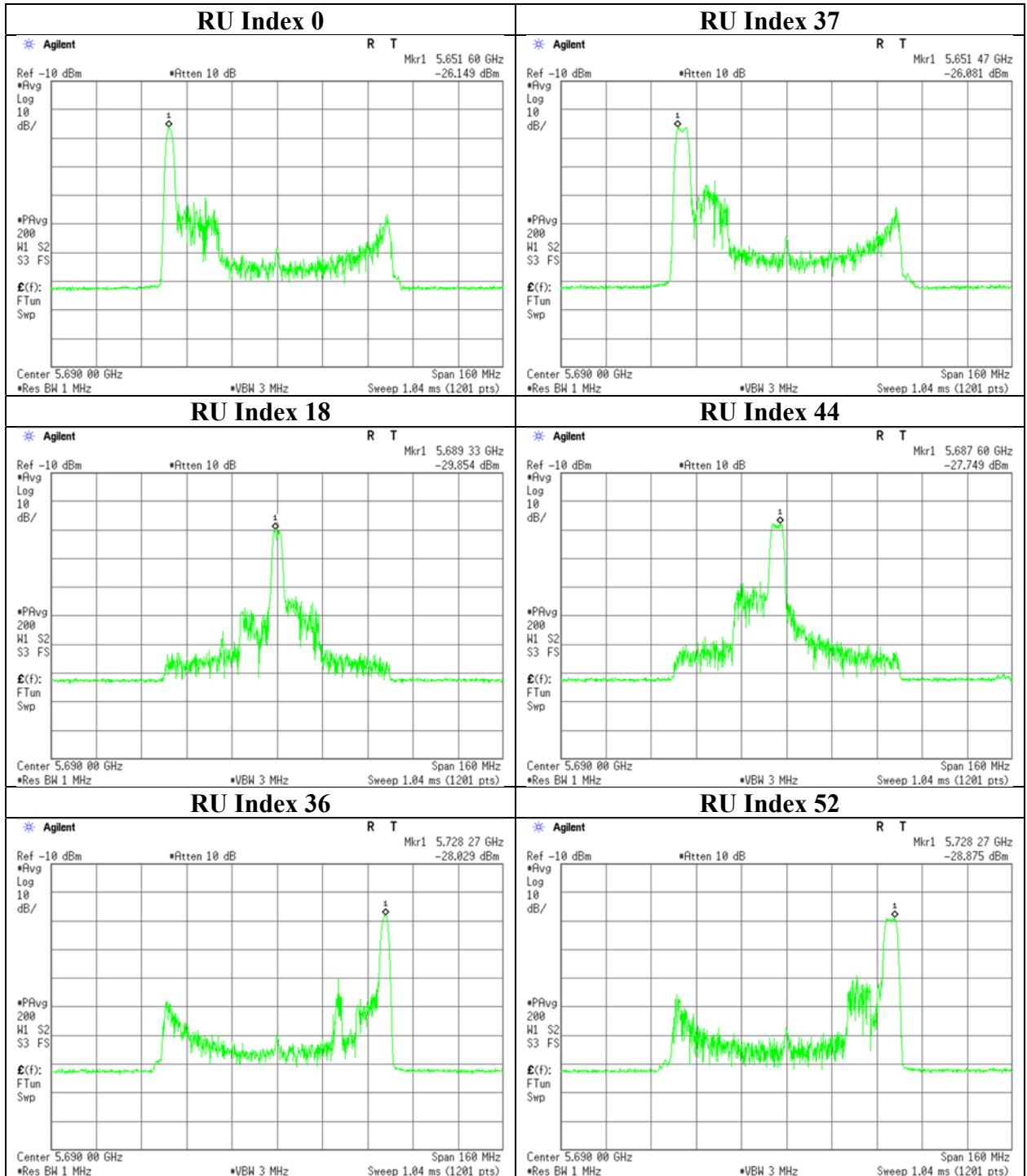
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

11ax-80, Antenna 3

26-tone RU 5690 MHz

52-tone RU 5690 MHz



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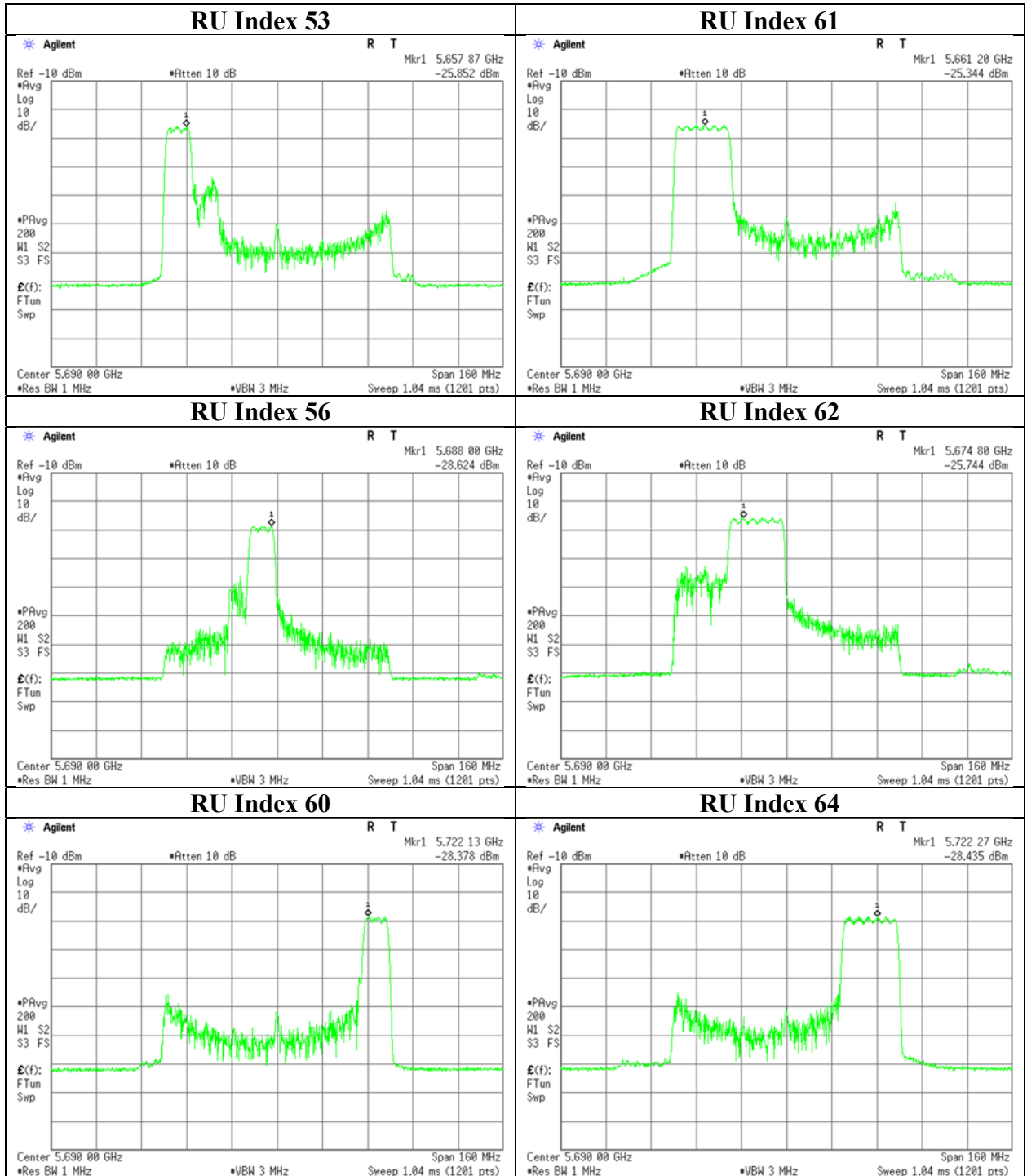
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

11ax-80, Antenna 3

106-tone RU 5690 MHz

242-tone RU 5690 MHz



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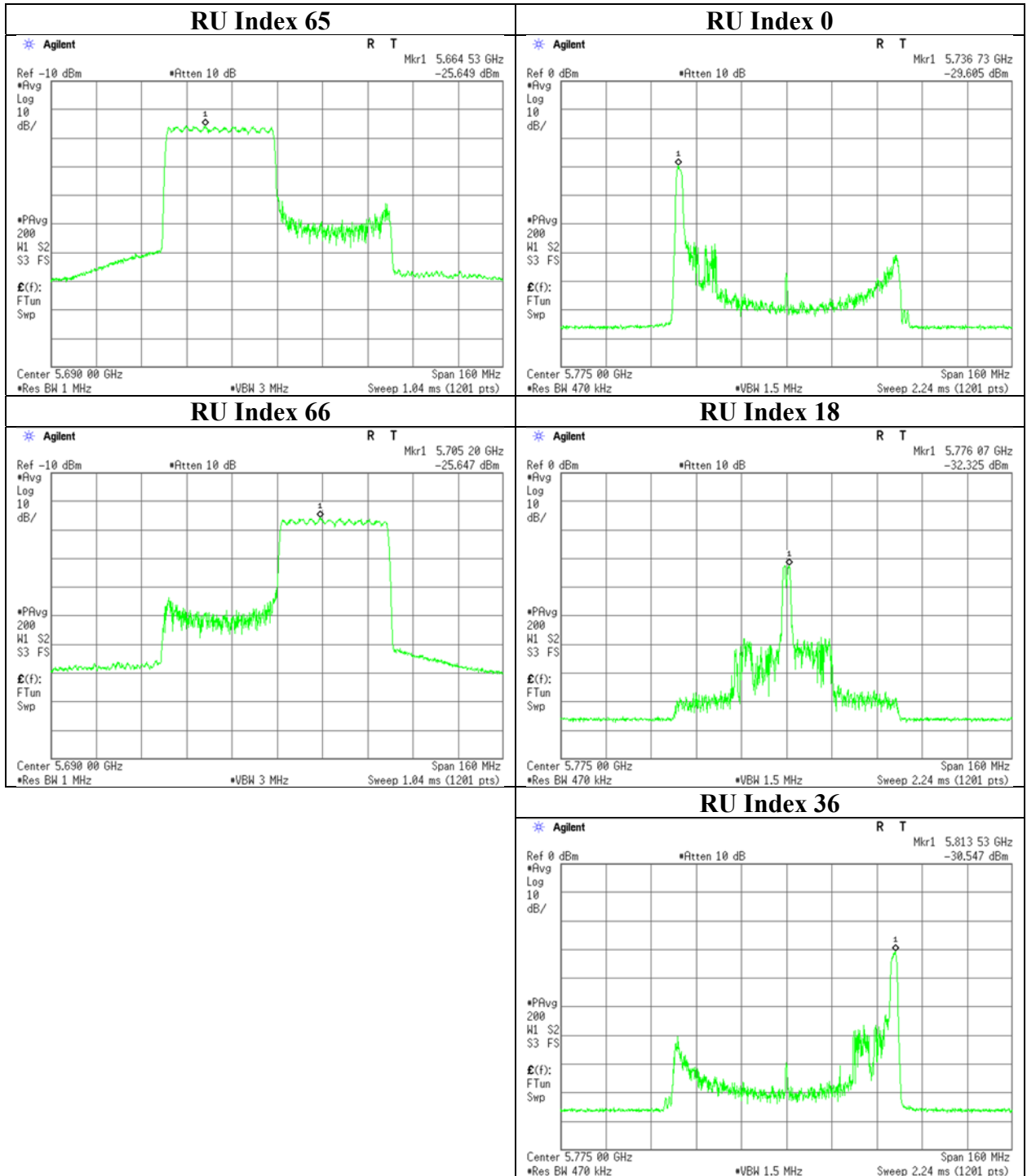
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

11ax-80, Antenna 3

484-tone RU 5690 MHz

26-tone RU 5775 MHz



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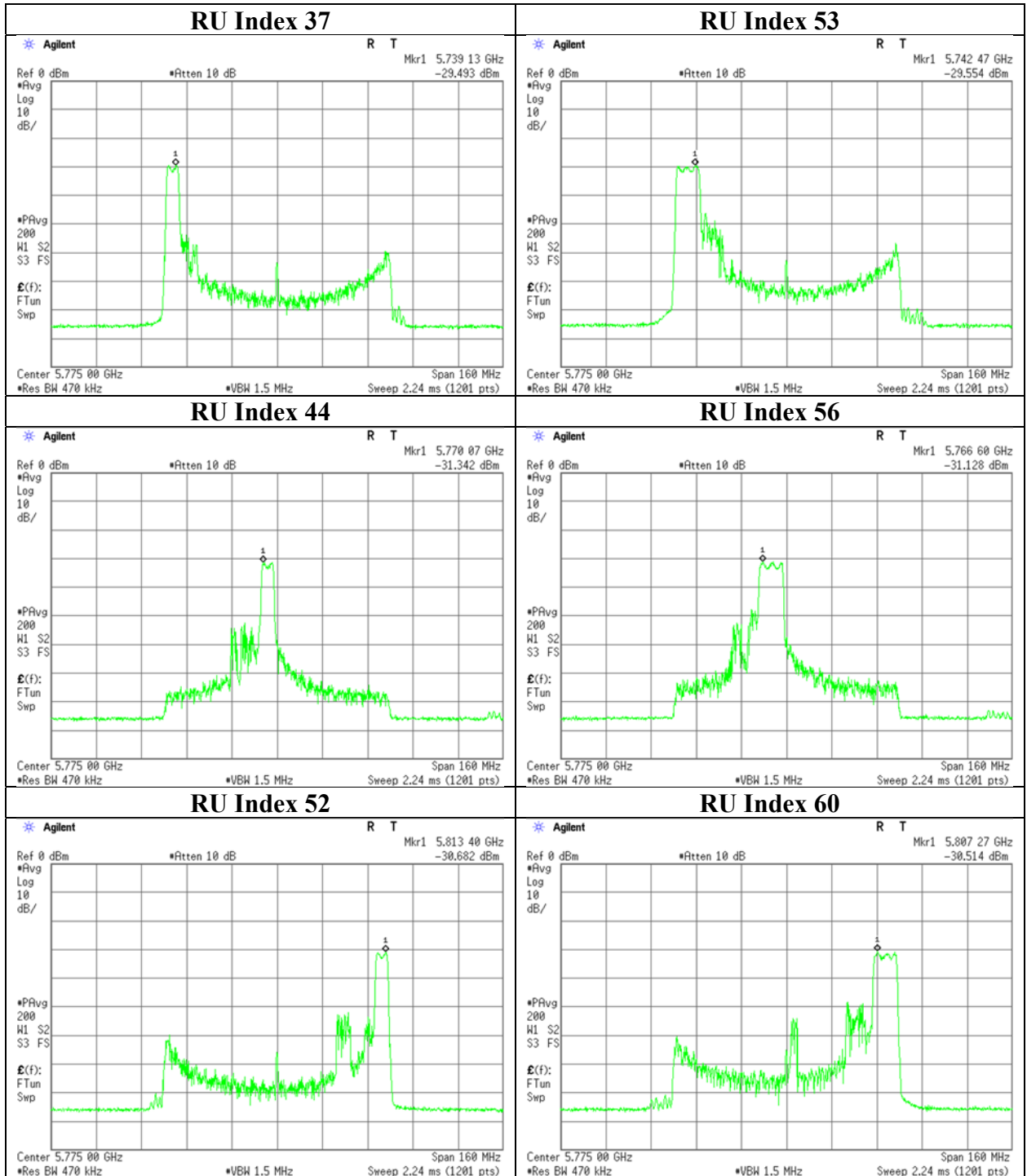
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

11ax-80, Antenna 3

52-tone RU 5775 MHz

106-tone RU 5775 MHz



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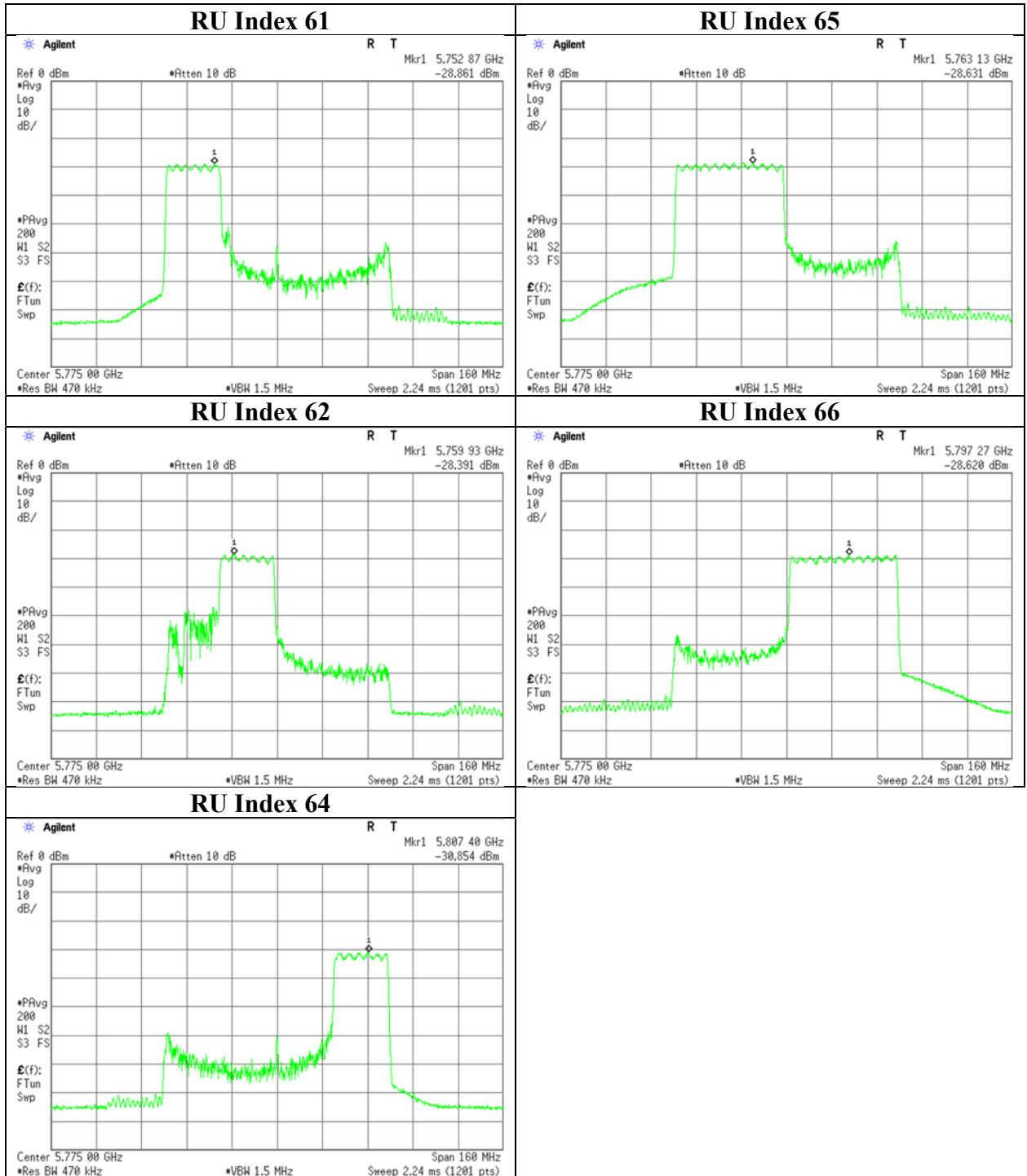
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

11ax-80, Antenna 3

242-tone RU 5775 MHz

484-tone RU 5775 MHz



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Ise EMC Lab.

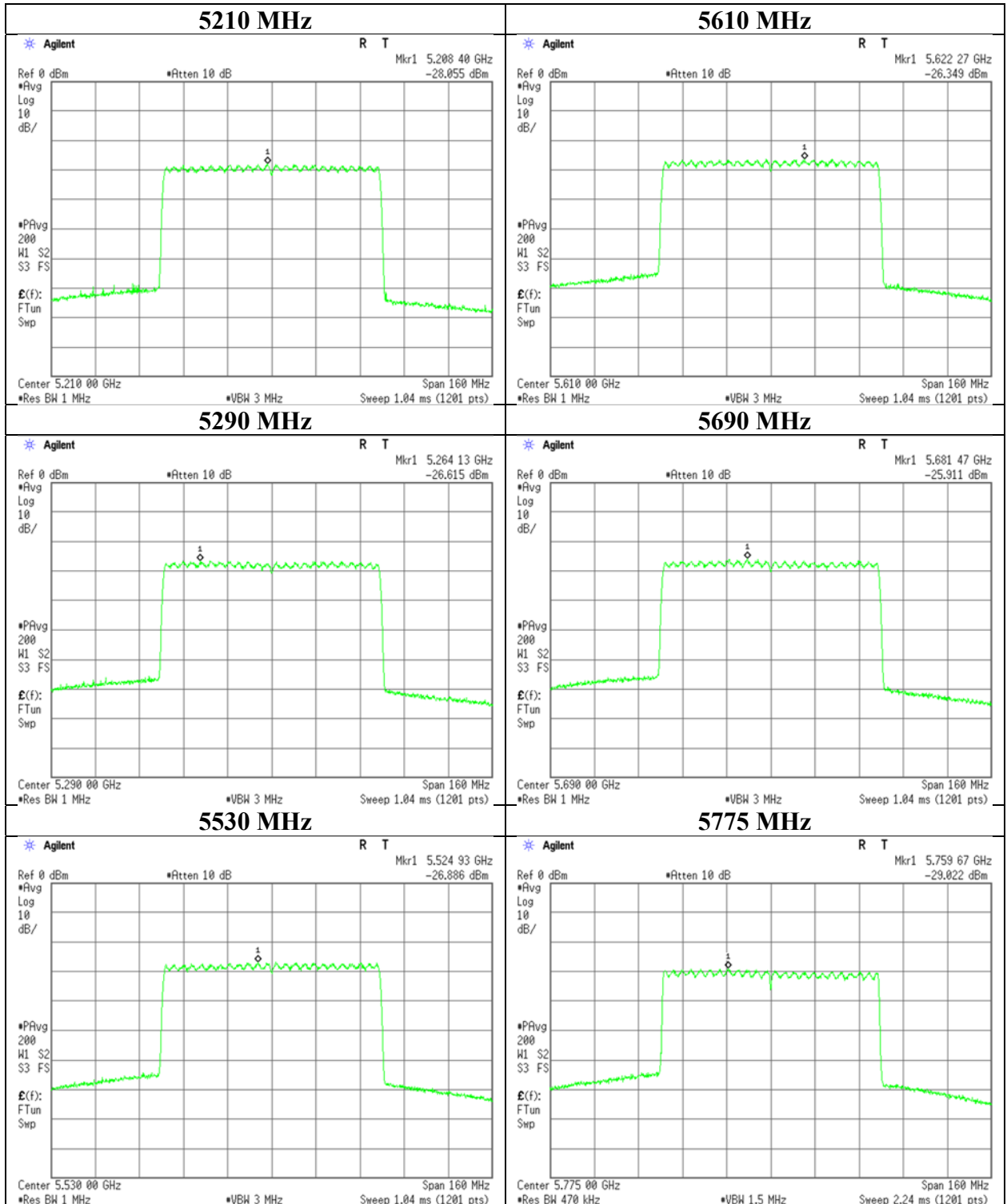
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Facsimile : +81 596 24 8124

Maximum Power Spectral Density

11ax-80, Antenna 1 996-tone RU



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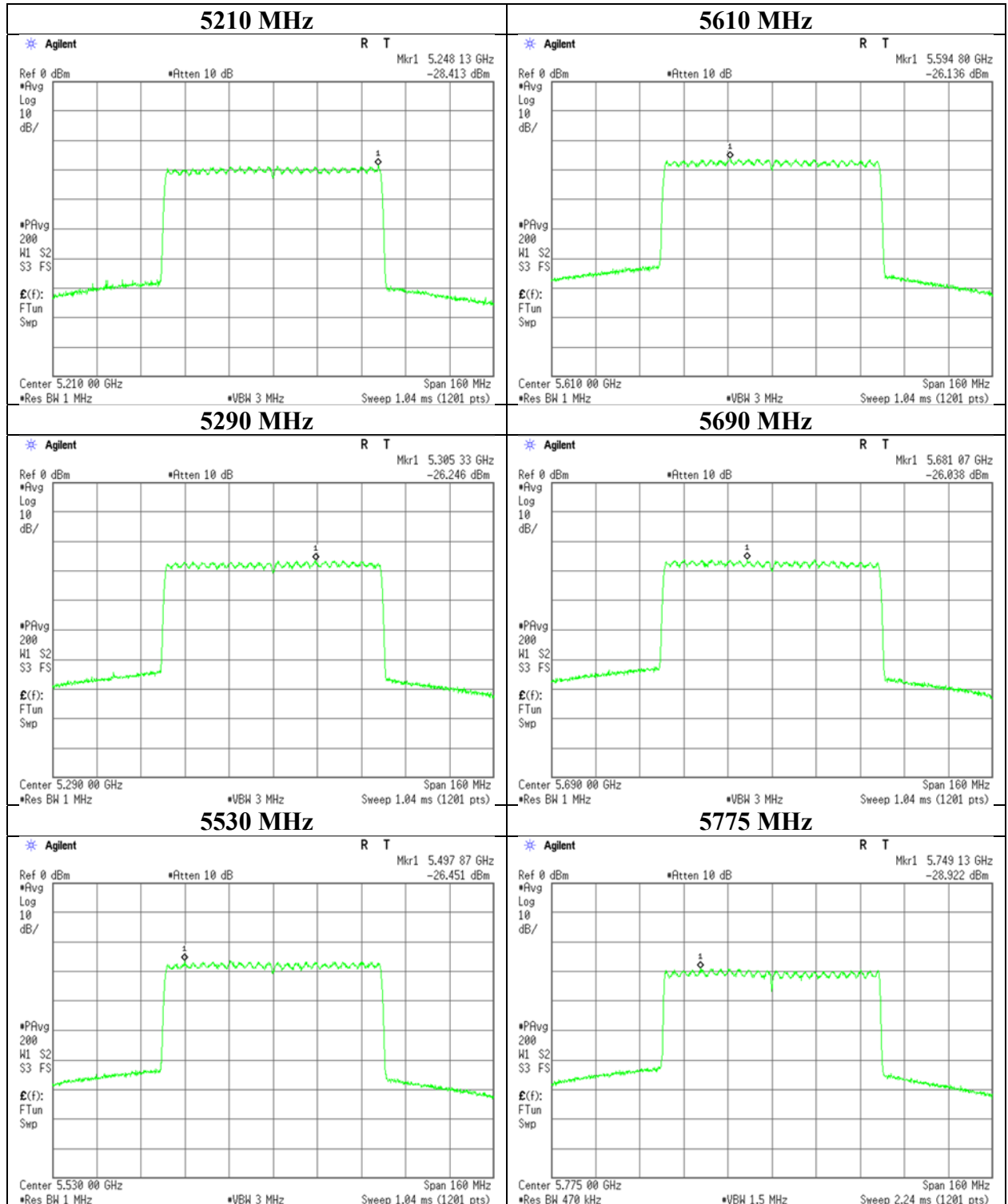
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

11ax-80, Antenna 3 996-tone RU



Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5180 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5150.000 | PK | 42.6 | 31.7 | -5.9 | 31.8 | - | 48.4 | 73.9 | 25.5 | |
| Hori. | 10360.000 | PK | 42.3 | 40.1 | -3.1 | 33.5 | - | 45.8 | 68.2 | 22.4 | Floor noise |
| Hori. | 15540.000 | PK | 44.9 | 37.7 | -1.6 | 32.7 | - | 48.2 | 73.9 | 25.7 | Floor noise |
| Hori. | 5150.000 | AV | 33.3 | 31.7 | -5.9 | 31.8 | 0.5 | 39.6 | 53.9 | 14.3 | *1) |
| Hori. | 15540.000 | AV | 36.0 | 37.7 | -1.6 | 32.7 | - | 39.3 | 53.9 | 14.6 | Floor noise |
| Vert. | 5150.000 | PK | 42.0 | 31.7 | -5.9 | 31.8 | - | 47.8 | 73.9 | 26.1 | |
| Vert. | 10360.000 | PK | 42.1 | 40.1 | -3.1 | 33.5 | - | 45.6 | 68.2 | 22.6 | Floor noise |
| Vert. | 15540.000 | PK | 44.6 | 37.7 | -1.6 | 32.7 | - | 47.9 | 73.9 | 26.0 | Floor noise |
| Vert. | 5150.000 | AV | 33.3 | 31.7 | -5.9 | 31.8 | 0.5 | 39.6 | 53.9 | 14.3 | *1) |
| Vert. | 15540.000 | AV | 36.0 | 37.7 | -1.6 | 32.7 | - | 39.3 | 53.9 | 14.6 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

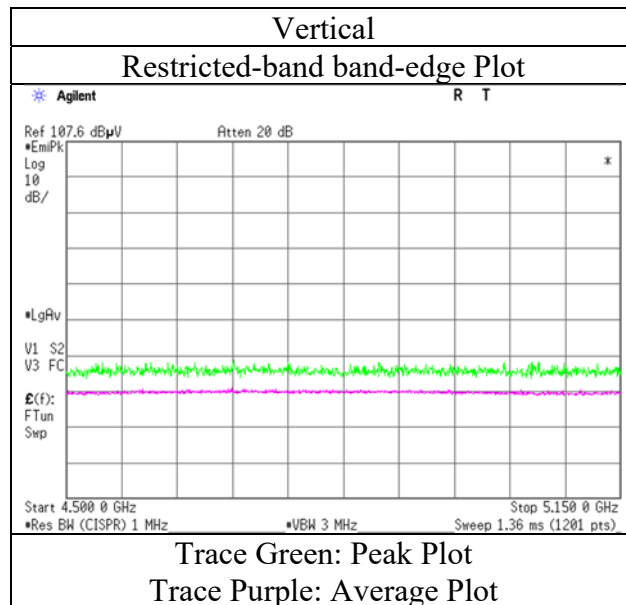
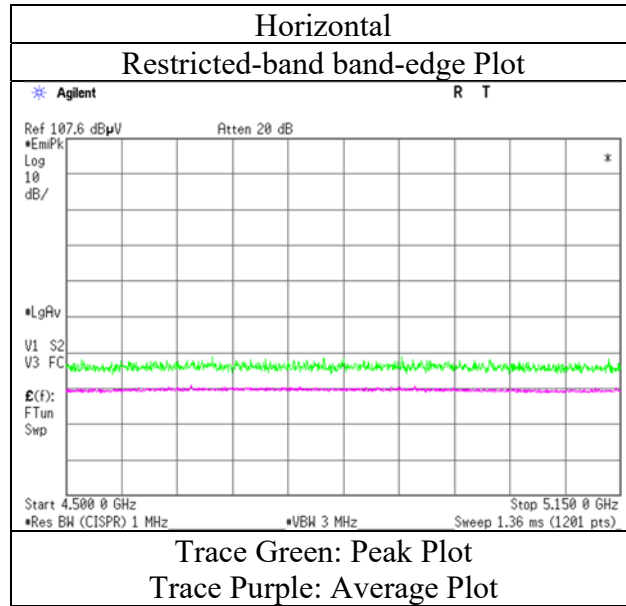
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$
10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5260 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 10520.000 | PK | 41.5 | 40.0 | -3.0 | 33.6 | - | 45.0 | 68.2 | 23.2 | Floor noise |
| Hori. | 15780.000 | PK | 44.5 | 37.3 | -1.6 | 32.8 | - | 47.3 | 73.9 | 26.6 | Floor noise |
| Hori. | 15780.000 | AV | 35.8 | 37.3 | -1.6 | 32.8 | - | 38.6 | 53.9 | 15.3 | Floor noise |
| Vert. | 10520.000 | PK | 41.9 | 40.0 | -3.0 | 33.6 | - | 45.4 | 68.2 | 22.8 | Floor noise |
| Vert. | 15780.000 | PK | 43.8 | 37.3 | -1.6 | 32.8 | - | 46.6 | 73.9 | 27.3 | Floor noise |
| Vert. | 15780.000 | AV | 35.8 | 37.3 | -1.6 | 32.8 | - | 38.6 | 53.9 | 15.3 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$
10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5320 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5350.000 | PK | 42.1 | 31.5 | 6.0 | 31.8 | - | 47.7 | 73.9 | 26.2 | |
| Hori. | 10640.000 | PK | 43.2 | 39.9 | -2.9 | 33.6 | - | 46.5 | 73.9 | 27.4 | Floor noise |
| Hori. | 15960.000 | PK | 43.4 | 37.9 | -1.7 | 32.8 | - | 46.7 | 73.9 | 27.2 | Floor noise |
| Hori. | 5350.000 | AV | 34.1 | 31.5 | 6.0 | 31.8 | 0.5 | 40.2 | 53.9 | 13.7 | *1) |
| Hori. | 10640.000 | AV | 33.7 | 39.9 | -2.9 | 33.6 | - | 37.1 | 53.9 | 16.8 | Floor noise |
| Hori. | 15960.000 | AV | 35.0 | 37.9 | -1.7 | 32.8 | - | 38.3 | 53.9 | 15.6 | Floor noise |
| Vert. | 5350.000 | PK | 43.9 | 31.5 | 6.0 | 31.8 | - | 49.5 | 73.9 | 24.4 | |
| Vert. | 10640.000 | PK | 42.9 | 39.9 | -2.9 | 33.6 | - | 46.3 | 73.9 | 27.6 | Floor noise |
| Vert. | 15960.000 | PK | 43.8 | 37.9 | -1.7 | 32.8 | - | 47.1 | 73.9 | 26.8 | Floor noise |
| Vert. | 5350.000 | AV | 34.7 | 31.5 | 6.0 | 31.8 | 0.5 | 40.8 | 53.9 | 13.1 | *1) |
| Vert. | 10640.000 | AV | 33.7 | 39.9 | -2.9 | 33.6 | - | 37.1 | 53.9 | 16.8 | Floor noise |
| Vert. | 15960.000 | AV | 35.0 | 37.9 | -1.7 | 32.8 | - | 38.3 | 53.9 | 15.6 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

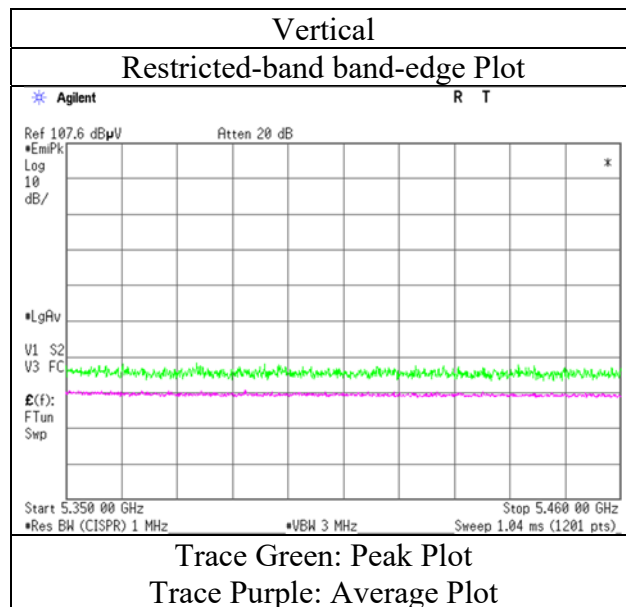
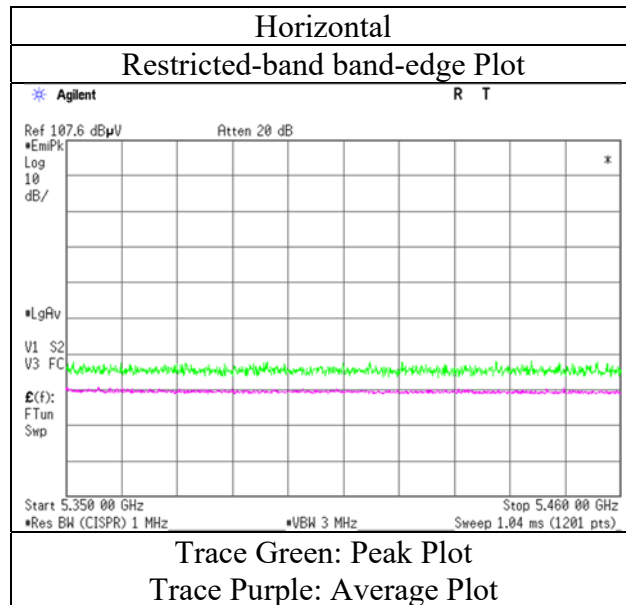
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$
10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

*1) Not Out of Band emission (Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-20 5320 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5500 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5460.000 | PK | 41.4 | 31.7 | 6.0 | 31.9 | - | 47.2 | 68.2 | 21.0 | |
| Hori. | 5470.000 | PK | 43.9 | 31.7 | 6.0 | 31.9 | - | 49.8 | 68.2 | 18.5 | |
| Hori. | 11000.000 | PK | 42.5 | 40.2 | -2.7 | 33.6 | - | 46.4 | 73.9 | 27.5 | Floor noise |
| Hori. | 16500.000 | PK | 44.2 | 39.6 | -1.6 | 32.7 | - | 49.6 | 68.2 | 18.6 | Floor noise |
| Hori. | 5460.000 | AV | 32.9 | 31.7 | 6.0 | 31.9 | 0.5 | 39.3 | 53.9 | 14.6 | *1) |
| Hori. | 11000.000 | AV | 33.9 | 40.2 | -2.7 | 33.6 | - | 37.8 | 53.9 | 16.1 | Floor noise |
| Vert. | 5460.000 | PK | 42.0 | 31.7 | 6.0 | 31.9 | - | 47.9 | 68.2 | 20.4 | |
| Vert. | 5470.000 | PK | 42.5 | 31.7 | 6.0 | 31.9 | - | 48.3 | 68.2 | 19.9 | |
| Vert. | 11000.000 | PK | 42.5 | 40.2 | -2.7 | 33.6 | - | 46.3 | 73.9 | 27.6 | Floor noise |
| Vert. | 16500.000 | PK | 44.2 | 39.6 | -1.6 | 32.7 | - | 49.5 | 68.2 | 18.7 | Floor noise |
| Vert. | 5460.000 | AV | 33.4 | 31.7 | 6.0 | 31.9 | 0.5 | 39.7 | 53.9 | 14.2 | *1) |
| Vert. | 11000.000 | AV | 33.9 | 40.2 | -2.7 | 33.6 | - | 37.8 | 53.9 | 16.1 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

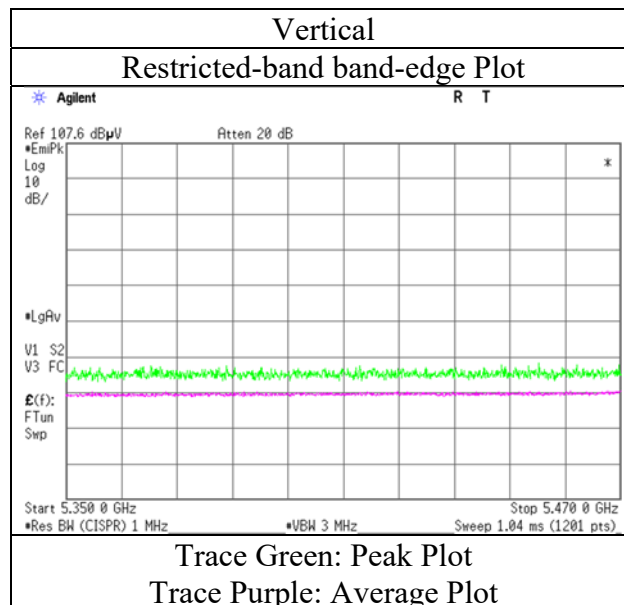
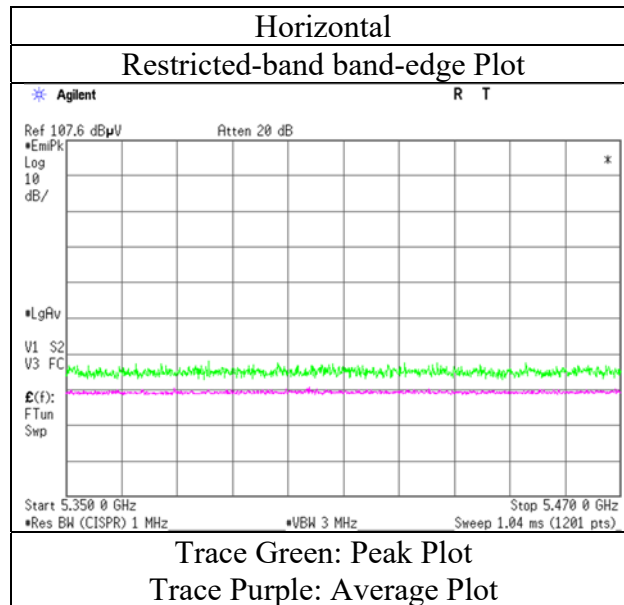
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$
10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-20 5500 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5580 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 11160.000 | PK | 42.8 | 39.8 | -2.7 | 33.6 | - | 46.3 | 73.9 | 27.6 | Floor noise |
| Hori. | 16740.000 | PK | 44.8 | 41.1 | -1.5 | 32.7 | - | 51.8 | 68.2 | 16.4 | Floor noise |
| Hori. | 11160.000 | AV | 34.2 | 39.8 | -2.7 | 33.6 | - | 37.7 | 53.9 | 16.2 | Floor noise |
| Vert. | 11160.000 | PK | 42.5 | 39.8 | -2.7 | 33.6 | - | 46.0 | 73.9 | 27.9 | Floor noise |
| Vert. | 16740.000 | PK | 44.4 | 41.1 | -1.5 | 32.7 | - | 51.3 | 68.2 | 16.9 | Floor noise |
| Vert. | 11160.000 | AV | 34.2 | 39.8 | -2.7 | 33.6 | - | 37.7 | 53.9 | 16.2 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$
10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5700 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5725.000 | PK | 45.1 | 32.0 | 6.1 | 31.9 | - | 51.3 | 68.2 | 16.9 | |
| Hori. | 11400.000 | PK | 41.8 | 39.9 | -2.5 | 33.6 | - | 45.6 | 73.9 | 28.3 | Floor noise |
| Hori. | 17100.000 | PK | 44.9 | 42.3 | -1.4 | 32.6 | - | 53.1 | 68.2 | 15.1 | Floor noise |
| Hori. | 11400.000 | AV | 34.1 | 39.9 | -2.5 | 33.6 | - | 37.9 | 53.9 | 16.0 | Floor noise |
| Vert. | 5725.000 | PK | 46.4 | 32.0 | 6.1 | 31.9 | - | 52.6 | 68.2 | 15.6 | |
| Vert. | 11400.000 | PK | 42.1 | 39.9 | -2.5 | 33.6 | - | 45.9 | 73.9 | 28.0 | Floor noise |
| Vert. | 17100.000 | PK | 44.5 | 42.3 | -1.4 | 32.6 | - | 52.8 | 68.2 | 15.4 | Floor noise |
| Vert. | 11400.000 | AV | 34.1 | 39.9 | -2.5 | 33.6 | - | 37.9 | 53.9 | 16.0 | Floor noise |

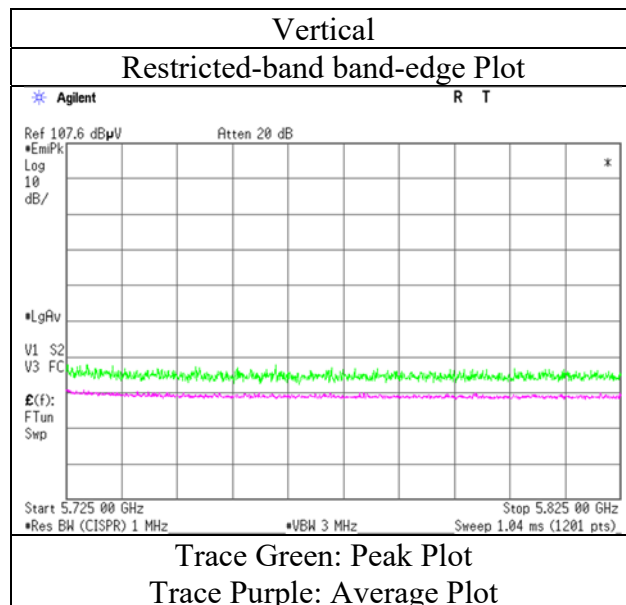
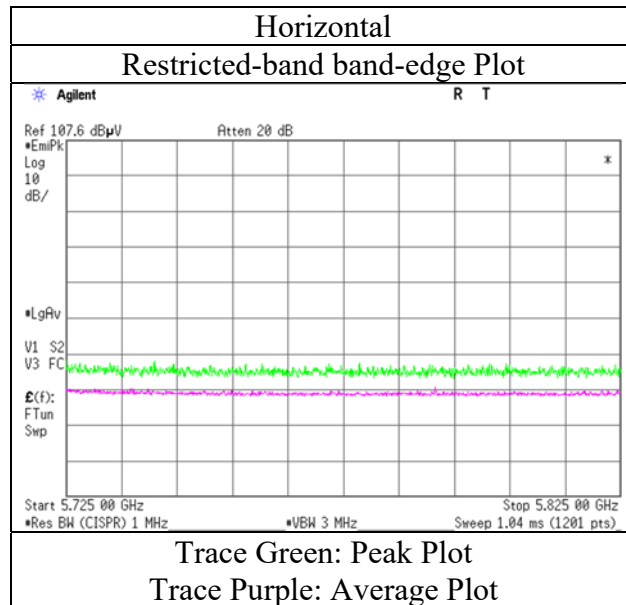
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-20 5700 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5745 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5650.000 | PK | 40.4 | 31.8 | 6.1 | 31.9 | - | 46.3 | 68.2 | 21.9 | |
| Hori. | 5700.000 | PK | 40.9 | 31.9 | 6.1 | 31.9 | - | 47.0 | 105.2 | 58.3 | |
| Hori. | 5720.000 | PK | 45.6 | 32.0 | 6.1 | 31.9 | - | 51.7 | 110.8 | 59.1 | |
| Hori. | 5725.000 | PK | 51.0 | 32.0 | 6.1 | 31.9 | - | 57.2 | 122.2 | 65.0 | |
| Hori. | 11490.000 | PK | 42.8 | 39.7 | -2.5 | 33.5 | - | 46.5 | 73.9 | 27.4 | Floor noise |
| Hori. | 17235.000 | PK | 43.9 | 42.7 | -1.4 | 32.6 | - | 52.6 | 68.2 | 15.6 | Floor noise |
| Hori. | 11490.000 | AV | 33.8 | 39.7 | -2.5 | 33.5 | - | 37.4 | 53.9 | 16.5 | Floor noise |
| Vert. | 5650.000 | PK | 41.9 | 31.8 | 6.1 | 31.9 | - | 47.9 | 68.2 | 20.3 | |
| Vert. | 5700.000 | PK | 41.9 | 31.9 | 6.1 | 31.9 | - | 48.0 | 105.2 | 57.2 | |
| Vert. | 5720.000 | PK | 47.6 | 32.0 | 6.1 | 31.9 | - | 53.8 | 110.8 | 57.0 | |
| Vert. | 5725.000 | PK | 54.4 | 32.0 | 6.1 | 31.9 | - | 60.6 | 122.2 | 61.6 | |
| Vert. | 11490.000 | PK | 43.1 | 39.7 | -2.5 | 33.5 | - | 46.8 | 73.9 | 27.1 | Floor noise |
| Vert. | 17235.000 | PK | 43.9 | 42.7 | -1.4 | 32.6 | - | 52.6 | 68.2 | 15.6 | Floor noise |
| Vert. | 11490.000 | AV | 33.8 | 39.7 | -2.5 | 33.5 | - | 37.4 | 53.9 | 16.5 | Floor noise |

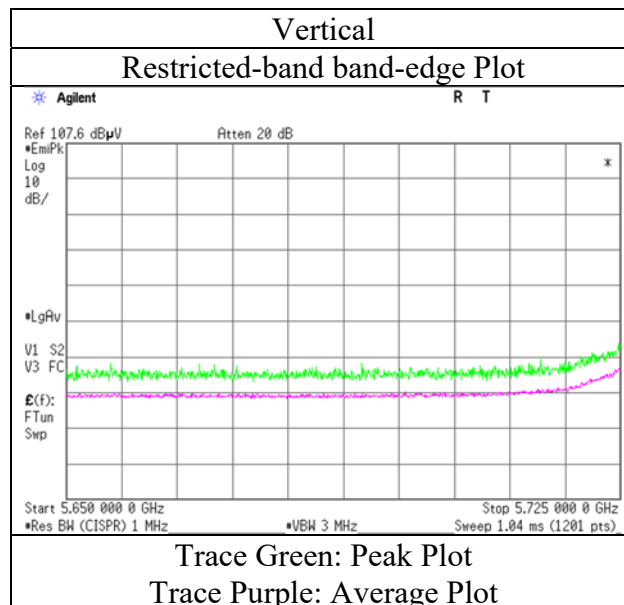
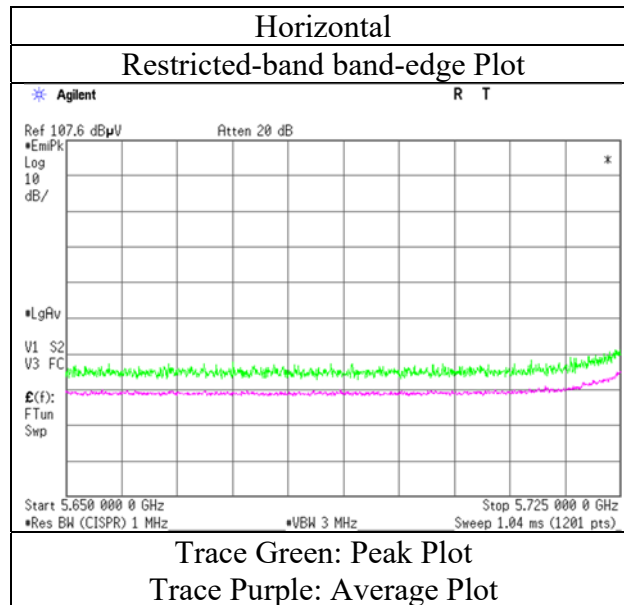
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date December 20, 2019
 Temperature / Humidity 23 deg. C / 40 % RH
 Engineer Yuta Moriya
 Mode Tx 11ax-20 5745 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5785 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 11570.000 | PK | 41.9 | 39.5 | -2.4 | 33.5 | - | 45.5 | 73.9 | 28.4 | Floor noise |
| Hori. | 17355.000 | PK | 43.7 | 44.0 | -1.3 | 32.6 | - | 53.7 | 68.2 | 14.5 | Floor noise |
| Hori. | 11570.000 | AV | 34.0 | 39.5 | -2.4 | 33.5 | - | 37.6 | 53.9 | 16.3 | Floor noise |
| Vert. | 11570.000 | PK | 42.3 | 39.5 | -2.4 | 33.5 | - | 45.9 | 73.9 | 28.0 | Floor noise |
| Vert. | 17355.000 | PK | 43.5 | 44.0 | -1.3 | 32.6 | - | 53.5 | 68.2 | 14.7 | Floor noise |
| Vert. | 11570.000 | AV | 34.0 | 39.5 | -2.4 | 33.5 | - | 37.6 | 53.9 | 16.3 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-20 5825 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5850.000 | PK | 46.2 | 32.2 | 6.1 | 31.9 | - | 52.6 | 122.2 | 69.6 | |
| Hori. | 5855.000 | PK | 42.4 | 32.2 | 6.1 | 31.9 | - | 48.9 | 110.8 | 62.0 | |
| Hori. | 5875.000 | PK | 41.1 | 32.3 | 6.2 | 31.9 | - | 47.6 | 105.2 | 57.6 | |
| Hori. | 5925.000 | PK | 40.9 | 32.3 | 6.2 | 31.9 | - | 47.5 | 68.2 | 20.8 | |
| Hori. | 11650.000 | PK | 42.4 | 39.2 | -2.4 | 33.5 | - | 45.7 | 73.9 | 28.2 | Floor noise |
| Hori. | 17475.000 | PK | 43.4 | 44.7 | -1.3 | 32.6 | - | 54.2 | 68.2 | 14.0 | Floor noise |
| Hori. | 11650.000 | AV | 34.2 | 39.2 | -2.4 | 33.5 | - | 37.5 | 53.9 | 16.4 | Floor noise |
| Vert. | 5850.000 | PK | 47.4 | 32.2 | 6.1 | 31.9 | - | 53.9 | 122.2 | 68.3 | |
| Vert. | 5855.000 | PK | 43.6 | 32.2 | 6.1 | 31.9 | - | 50.1 | 110.8 | 60.7 | |
| Vert. | 5875.000 | PK | 40.9 | 32.3 | 6.2 | 31.9 | - | 47.4 | 105.2 | 57.8 | |
| Vert. | 5925.000 | PK | 40.7 | 32.3 | 6.2 | 31.9 | - | 47.2 | 68.2 | 21.0 | |
| Vert. | 11650.000 | PK | 43.0 | 39.2 | -2.4 | 33.5 | - | 46.3 | 73.9 | 27.6 | Floor noise |
| Vert. | 17475.000 | PK | 43.2 | 44.7 | -1.3 | 32.6 | - | 54.0 | 68.2 | 14.2 | Floor noise |
| Vert. | 11650.000 | AV | 34.2 | 39.2 | -2.4 | 33.5 | - | 37.5 | 53.9 | 16.4 | Floor noise |

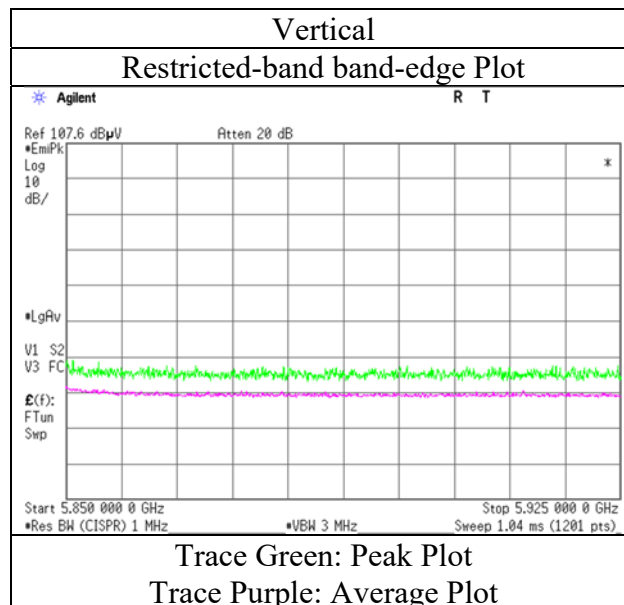
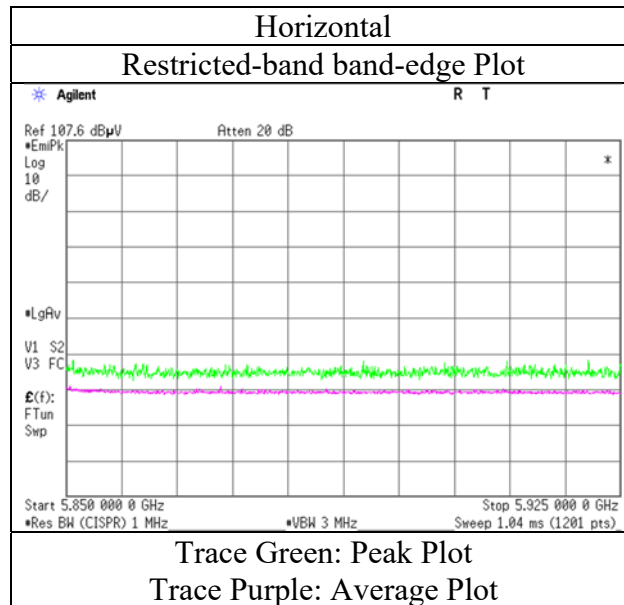
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date December 20, 2019
 Temperature / Humidity 23 deg. C / 40 % RH
 Engineer Yuta Moriya
 Mode Tx 11ax-20 5825 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-40 5190 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5150.000 | PK | 43.1 | 31.7 | 5.9 | 31.8 | - | 48.9 | 73.9 | 25.1 | |
| Hori. | 10380.000 | PK | 42.5 | 40.1 | -3.1 | 33.5 | - | 46.0 | 68.2 | 22.2 | Floor noise |
| Hori. | 15570.000 | PK | 44.9 | 37.5 | -1.6 | 32.8 | - | 48.0 | 73.9 | 25.9 | Floor noise |
| Hori. | 5150.000 | AV | 34.2 | 31.7 | 5.9 | 31.8 | 0.8 | 40.7 | 53.9 | 13.2 | *1) |
| Hori. | 15570.000 | AV | 35.9 | 37.5 | -1.6 | 32.8 | - | 39.0 | 53.9 | 14.9 | Floor noise |
| Vert. | 5150.000 | PK | 43.4 | 31.7 | 5.9 | 31.8 | - | 49.2 | 73.9 | 24.7 | |
| Vert. | 10380.000 | PK | 42.5 | 40.1 | -3.1 | 33.5 | - | 45.9 | 68.2 | 22.3 | Floor noise |
| Vert. | 15570.000 | PK | 44.1 | 37.5 | -1.6 | 32.8 | - | 47.2 | 73.9 | 26.8 | Floor noise |
| Vert. | 5150.000 | AV | 34.3 | 31.7 | 5.9 | 31.8 | 0.8 | 40.9 | 53.9 | 13.0 | *1) |
| Vert. | 15570.000 | AV | 35.9 | 37.5 | -1.6 | 32.8 | - | 39.0 | 53.9 | 14.9 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

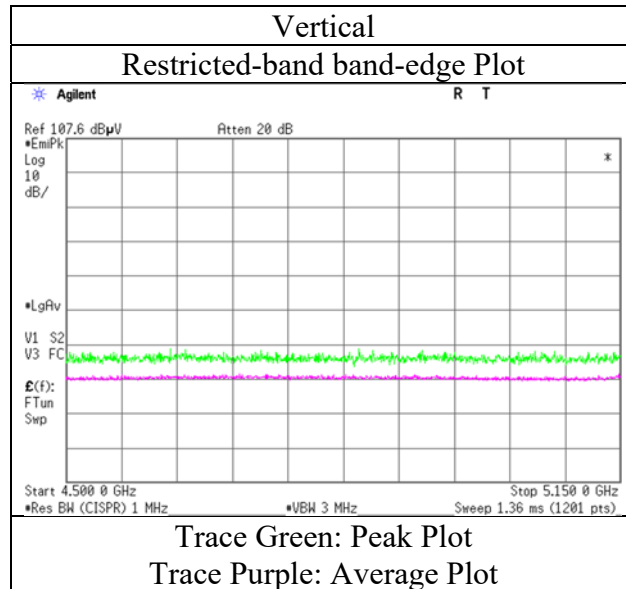
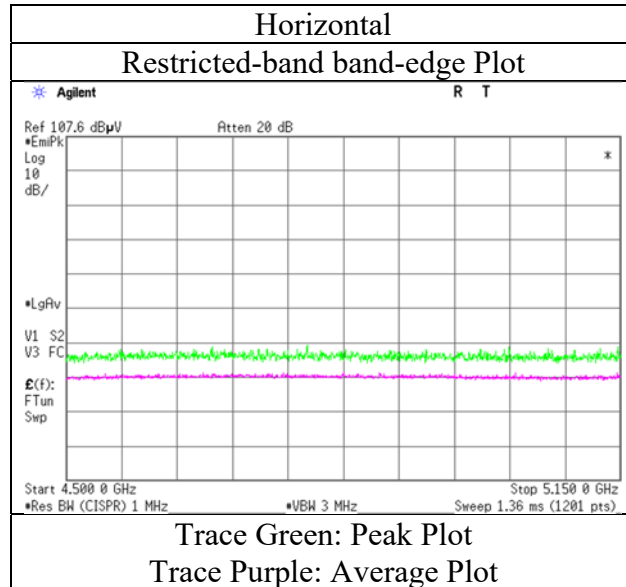
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-40 5190 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-40 5270 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 10540.000 | PK | 42.2 | 40.0 | -3.0 | 33.6 | - | 45.7 | 68.2 | 22.5 | Floor noise |
| Hori. | 15810.000 | PK | 43.7 | 37.1 | -1.7 | 32.8 | - | 46.3 | 73.9 | 27.6 | Floor noise |
| Hori. | 15810.000 | AV | 35.2 | 37.1 | -1.7 | 32.8 | - | 37.8 | 53.9 | 16.1 | Floor noise |
| Vert. | 10540.000 | PK | 43.0 | 40.0 | -3.0 | 33.6 | - | 46.5 | 68.2 | 21.8 | Floor noise |
| Vert. | 15810.000 | PK | 43.7 | 37.1 | -1.7 | 32.8 | - | 46.4 | 73.9 | 27.5 | Floor noise |
| Vert. | 15810.000 | AV | 35.2 | 37.1 | -1.7 | 32.8 | - | 37.8 | 53.9 | 16.1 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 20, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-40 5310 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5350.000 | PK | 48.4 | 31.5 | 6.0 | 31.8 | - | 54.0 | 73.9 | 19.9 | |
| Hori. | 10620.000 | PK | 41.8 | 39.8 | -2.9 | 33.6 | - | 45.1 | 73.9 | 28.8 | Floor noise |
| Hori. | 15930.000 | PK | 43.4 | 37.6 | -1.7 | 32.8 | - | 46.6 | 73.9 | 27.4 | Floor noise |
| Hori. | 5350.000 | AV | 37.9 | 31.5 | 6.0 | 31.8 | 0.8 | 44.2 | 53.9 | 9.7 | *1) |
| Hori. | 10620.000 | AV | 33.7 | 39.8 | -2.9 | 33.6 | - | 37.0 | 53.9 | 17.0 | Floor noise |
| Hori. | 15930.000 | AV | 35.0 | 37.6 | -1.7 | 32.8 | - | 38.2 | 53.9 | 15.8 | Floor noise |
| Vert. | 5350.000 | PK | 50.0 | 31.5 | 6.0 | 31.8 | - | 55.6 | 73.9 | 18.3 | |
| Vert. | 10620.000 | PK | 42.2 | 39.8 | -2.9 | 33.6 | - | 45.4 | 73.9 | 28.5 | Floor noise |
| Vert. | 15930.000 | PK | 43.4 | 37.6 | -1.7 | 32.8 | - | 46.6 | 73.9 | 27.4 | Floor noise |
| Vert. | 5350.000 | AV | 39.4 | 31.5 | 6.0 | 31.8 | 0.8 | 45.7 | 53.9 | 8.2 | *1) |
| Vert. | 10620.000 | AV | 33.7 | 39.8 | -2.9 | 33.6 | - | 37.0 | 53.9 | 17.0 | Floor noise |
| Vert. | 15930.000 | AV | 35.0 | 37.6 | -1.7 | 32.8 | - | 38.2 | 53.9 | 15.8 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

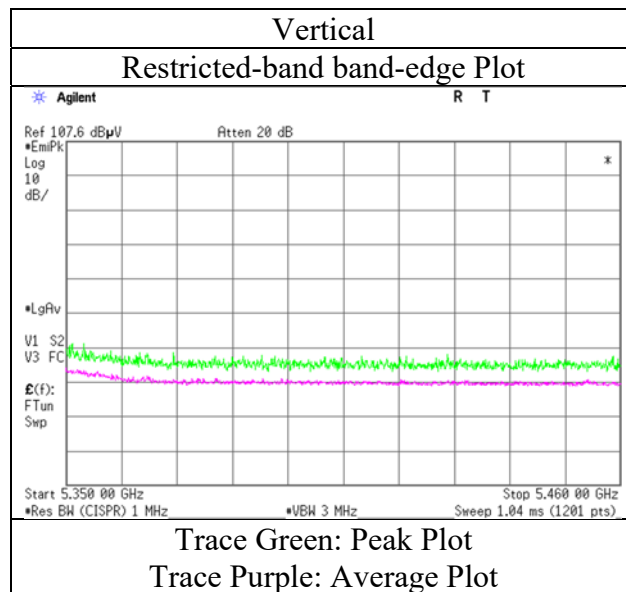
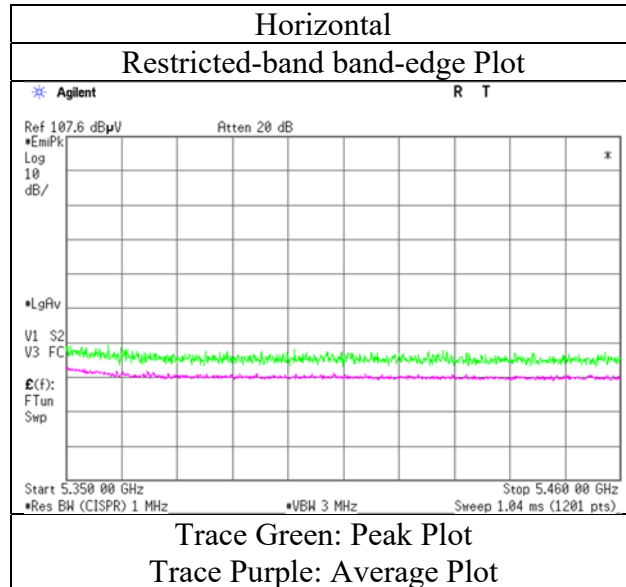
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date December 20, 2019
 Temperature / Humidity 23 deg. C / 40 % RH
 Engineer Yuta Moriya
 Mode Tx 11ax-40 5310 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-40 5510 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5460.000 | PK | 42.2 | 31.7 | 6.0 | 31.9 | - | 48.0 | 68.2 | 20.2 | |
| Hori. | 5470.000 | PK | 45.9 | 31.7 | 6.0 | 31.9 | - | 51.8 | 68.2 | 16.5 | |
| Hori. | 11020.000 | PK | 42.1 | 40.1 | -2.7 | 33.6 | - | 45.9 | 73.9 | 28.0 | Floor noise |
| Hori. | 16530.000 | PK | 44.2 | 39.8 | -1.6 | 32.7 | - | 49.7 | 68.2 | 18.5 | Floor noise |
| Hori. | 5460.000 | AV | 33.4 | 31.7 | 6.0 | 31.9 | 0.8 | 40.0 | 53.9 | 13.9 | *1) |
| Hori. | 11020.000 | AV | 33.8 | 40.1 | -2.7 | 33.6 | - | 37.5 | 53.9 | 16.4 | Floor noise |
| Vert. | 5460.000 | PK | 43.1 | 31.7 | 6.0 | 31.9 | - | 48.9 | 68.2 | 19.3 | |
| Vert. | 5470.000 | PK | 46.5 | 31.7 | 6.0 | 31.9 | - | 52.3 | 68.2 | 15.9 | |
| Vert. | 11020.000 | PK | 42.5 | 40.1 | -2.7 | 33.6 | - | 46.2 | 73.9 | 27.7 | Floor noise |
| Vert. | 16530.000 | PK | 44.1 | 39.8 | -1.6 | 32.7 | - | 49.6 | 68.2 | 18.6 | Floor noise |
| Vert. | 5460.000 | AV | 34.8 | 31.7 | 6.0 | 31.9 | 0.8 | 41.4 | 53.9 | 12.5 | *1) |
| Vert. | 11020.000 | AV | 33.8 | 40.1 | -2.7 | 33.6 | - | 37.5 | 53.9 | 16.4 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

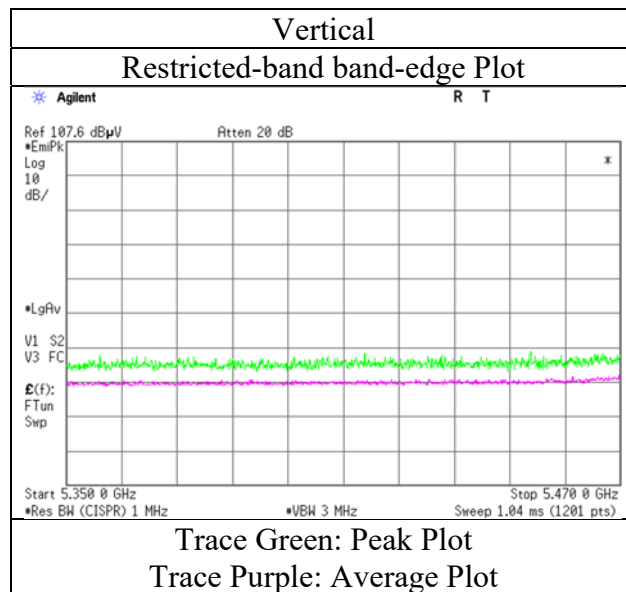
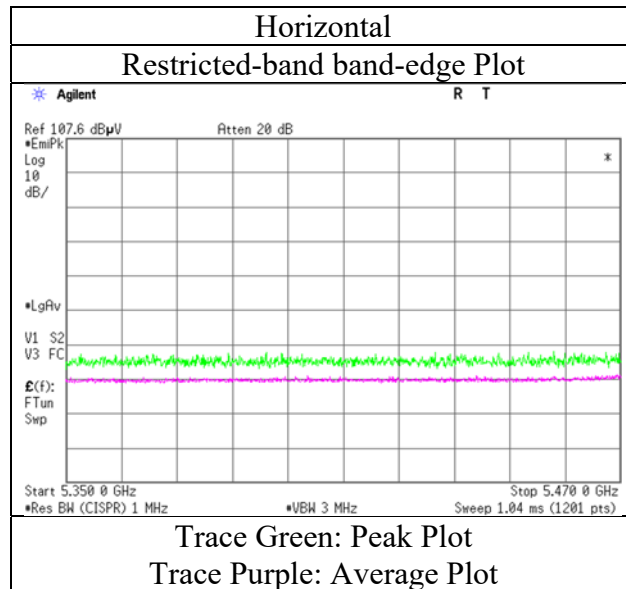
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$
10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-40 5510 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-40 5550 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 11100.000 | PK | 42.9 | 39.7 | -2.7 | 33.6 | - | 46.3 | 73.9 | 27.6 | Floor noise |
| Hori. | 16650.000 | PK | 44.6 | 40.4 | -1.5 | 32.7 | - | 50.8 | 68.2 | 17.4 | Floor noise |
| Hori. | 11100.000 | AV | 34.1 | 39.7 | -2.7 | 33.6 | - | 37.5 | 53.9 | 16.4 | Floor noise |
| Vert. | 11100.000 | PK | 42.4 | 39.7 | -2.7 | 33.6 | - | 45.8 | 73.9 | 28.1 | Floor noise |
| Vert. | 16650.000 | PK | 44.3 | 40.4 | -1.5 | 32.7 | - | 50.5 | 68.2 | 17.7 | Floor noise |
| Vert. | 11100.000 | AV | 34.1 | 39.7 | -2.7 | 33.6 | - | 37.5 | 53.9 | 16.4 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$
10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-40 5670 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5725.000 | PK | 43.2 | 32.0 | 6.1 | 31.9 | - | 49.4 | 68.2 | 18.8 | |
| Hori. | 11340.000 | PK | 42.5 | 39.9 | -2.6 | 33.6 | - | 46.2 | 73.9 | 27.7 | Floor noise |
| Hori. | 17010.000 | PK | 44.1 | 42.0 | -1.5 | 32.6 | - | 52.0 | 68.2 | 16.2 | Floor noise |
| Hori. | 11340.000 | AV | 33.6 | 39.9 | -2.6 | 33.6 | - | 37.3 | 53.9 | 16.6 | Floor noise |
| Vert. | 5725.000 | PK | 44.5 | 32.0 | 6.1 | 31.9 | - | 50.6 | 68.2 | 17.6 | |
| Vert. | 11340.000 | PK | 42.5 | 39.9 | -2.6 | 33.6 | - | 46.2 | 73.9 | 27.7 | Floor noise |
| Vert. | 17010.000 | PK | 43.6 | 42.0 | -1.5 | 32.6 | - | 51.5 | 68.2 | 16.7 | Floor noise |
| Vert. | 11340.000 | AV | 33.6 | 39.9 | -2.6 | 33.6 | - | 37.3 | 53.9 | 16.6 | Floor noise |

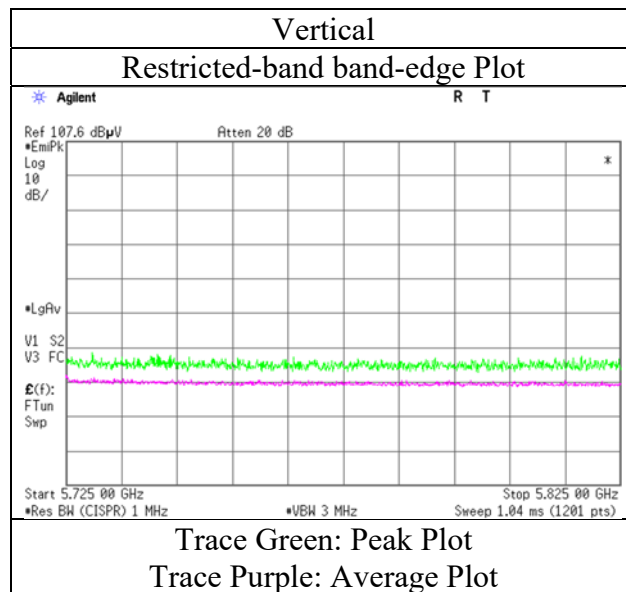
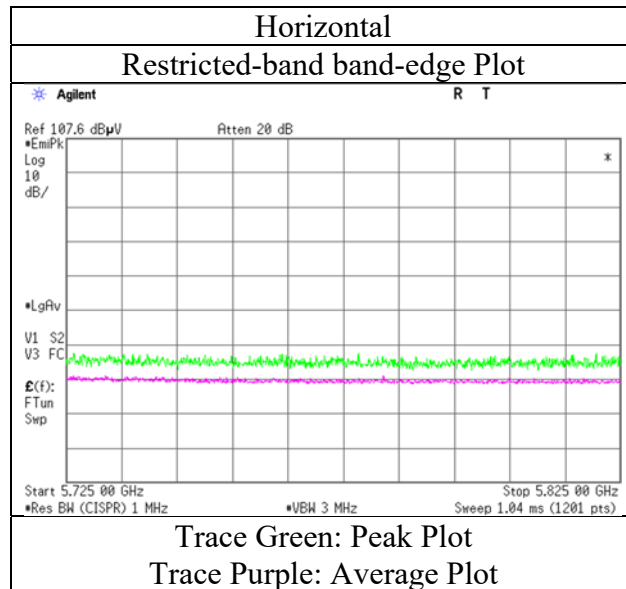
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-40 5670 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020 January 10, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz) (Below 1GHz)
Mode Tx 11ax-40 5755 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 49.274 | QP | 23.0 | 11.5 | 7.4 | 32.2 | - | 9.6 | 40.0 | 30.4 | |
| Hori. | 62.364 | QP | 23.1 | 7.3 | 7.6 | 32.2 | - | 5.8 | 40.0 | 34.2 | |
| Hori. | 95.790 | QP | 22.7 | 9.5 | 8.0 | 32.2 | - | 8.1 | 43.5 | 35.4 | |
| Hori. | 285.500 | QP | 22.3 | 13.4 | 9.8 | 31.9 | - | 13.6 | 46.0 | 32.4 | |
| Hori. | 550.400 | QP | 22.1 | 17.9 | 11.6 | 32.0 | - | 19.6 | 46.0 | 26.4 | |
| Hori. | 890.600 | QP | 22.0 | 22.1 | 13.5 | 31.0 | - | 26.6 | 46.0 | 19.4 | |
| Hori. | 5650.000 | PK | 40.5 | 31.8 | 6.1 | 31.9 | - | 46.4 | 68.2 | 21.8 | |
| Hori. | 5700.000 | PK | 44.4 | 31.9 | 6.1 | 31.9 | - | 50.5 | 105.2 | 54.7 | |
| Hori. | 5720.000 | PK | 52.3 | 32.0 | 6.1 | 31.9 | - | 58.5 | 110.8 | 52.4 | |
| Hori. | 5725.000 | PK | 50.6 | 32.0 | 6.1 | 31.9 | - | 56.8 | 122.2 | 65.4 | |
| Hori. | 11510.000 | PK | 42.2 | 39.7 | -2.5 | 33.5 | - | 45.8 | 73.9 | 28.1 | Floor noise |
| Hori. | 17265.000 | PK | 44.1 | 42.9 | -1.4 | 32.6 | - | 53.1 | 68.2 | 15.1 | Floor noise |
| Hori. | 11510.000 | AV | 33.7 | 39.7 | -2.5 | 33.5 | - | 37.4 | 53.9 | 16.5 | Floor noise |
| Vert. | 49.231 | QP | 26.6 | 11.5 | 7.4 | 32.2 | - | 13.3 | 40.0 | 26.8 | |
| Vert. | 61.859 | QP | 33.4 | 7.4 | 7.6 | 32.2 | - | 16.2 | 40.0 | 23.8 | |
| Vert. | 94.134 | QP | 26.5 | 9.2 | 8.0 | 32.2 | - | 11.6 | 43.5 | 31.9 | |
| Vert. | 285.700 | QP | 22.3 | 13.4 | 9.9 | 31.9 | - | 13.6 | 46.0 | 32.4 | |
| Vert. | 549.900 | QP | 22.1 | 17.9 | 11.6 | 32.0 | - | 19.6 | 46.0 | 26.4 | |
| Vert. | 890.400 | QP | 21.6 | 22.1 | 13.5 | 31.0 | - | 26.2 | 46.0 | 19.8 | |
| Vert. | 5650.000 | PK | 40.3 | 31.8 | 6.1 | 31.9 | - | 46.3 | 68.2 | 21.9 | |
| Vert. | 5700.000 | PK | 45.1 | 31.9 | 6.1 | 31.9 | - | 51.2 | 105.2 | 54.0 | |
| Vert. | 5720.000 | PK | 53.4 | 32.0 | 6.1 | 31.9 | - | 59.5 | 110.8 | 51.3 | |
| Vert. | 5725.000 | PK | 53.7 | 32.0 | 6.1 | 31.9 | - | 59.9 | 122.2 | 62.3 | |
| Vert. | 11510.000 | PK | 42.5 | 39.7 | -2.5 | 33.5 | - | 46.2 | 73.9 | 27.7 | Floor noise |
| Vert. | 17265.000 | PK | 44.1 | 42.9 | -1.4 | 32.6 | - | 53.0 | 68.2 | 15.2 | Floor noise |
| Vert. | 11510.000 | AV | 33.7 | 39.7 | -2.5 | 33.5 | - | 37.4 | 53.9 | 16.5 | Floor noise |

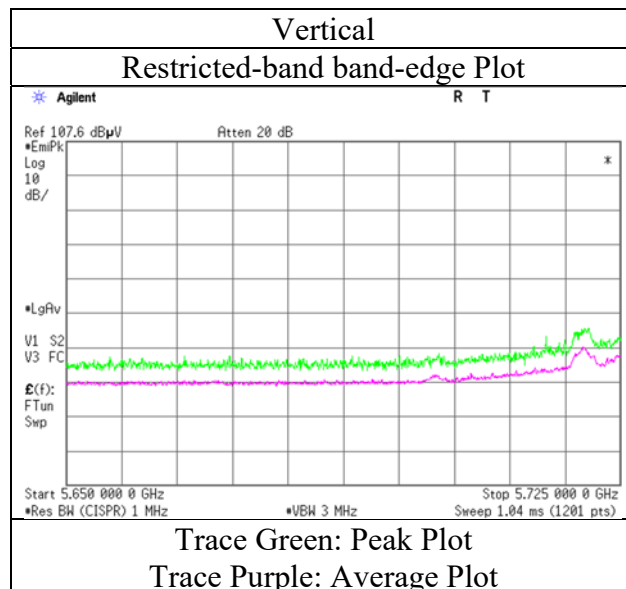
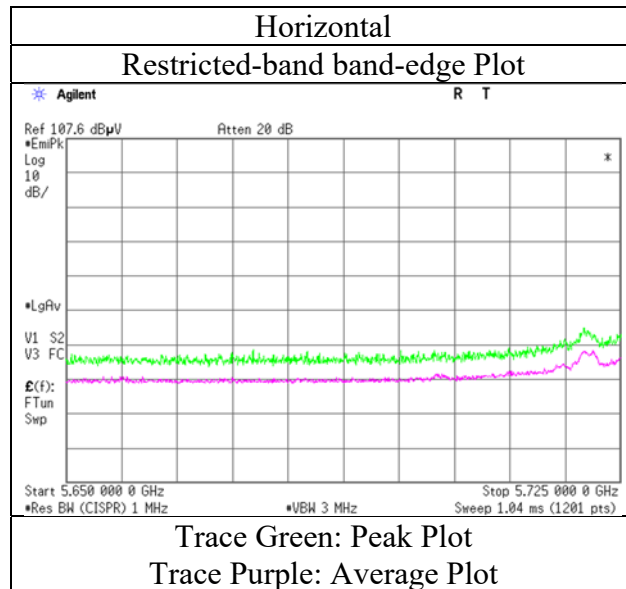
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-40 5755 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-40 5795 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5850.000 | PK | 44.1 | 32.2 | 6.1 | 31.9 | - | 50.5 | 122.2 | 71.7 | |
| Hori. | 5855.000 | PK | 41.1 | 32.2 | 6.1 | 31.9 | - | 47.6 | 110.8 | 63.2 | |
| Hori. | 5875.000 | PK | 40.4 | 32.3 | 6.2 | 31.9 | - | 46.9 | 105.2 | 58.3 | |
| Hori. | 5925.000 | PK | 40.3 | 32.3 | 6.2 | 31.9 | - | 46.8 | 68.2 | 21.4 | |
| Hori. | 11590.000 | PK | 42.0 | 39.3 | -2.4 | 33.5 | - | 45.3 | 73.9 | 28.6 | Floor noise |
| Hori. | 17385.000 | PK | 43.6 | 44.4 | -1.3 | 32.6 | - | 54.0 | 68.2 | 14.2 | Floor noise |
| Hori. | 11590.000 | AV | 33.7 | 39.3 | -2.4 | 33.5 | - | 37.0 | 53.9 | 16.9 | Floor noise |
| Vert. | 5850.000 | PK | 46.6 | 32.2 | 6.1 | 31.9 | - | 53.0 | 122.2 | 69.2 | |
| Vert. | 5855.000 | PK | 42.1 | 32.2 | 6.1 | 31.9 | - | 48.5 | 110.8 | 62.3 | |
| Vert. | 5875.000 | PK | 41.7 | 32.3 | 6.2 | 31.9 | - | 48.1 | 105.2 | 57.1 | |
| Vert. | 5925.000 | PK | 41.3 | 32.3 | 6.2 | 31.9 | - | 47.8 | 68.2 | 20.4 | |
| Vert. | 11590.000 | PK | 42.3 | 39.3 | -2.4 | 33.5 | - | 45.6 | 73.9 | 28.4 | Floor noise |
| Vert. | 17385.000 | PK | 43.4 | 44.4 | -1.3 | 32.6 | - | 53.9 | 68.2 | 14.4 | Floor noise |
| Vert. | 11590.000 | AV | 33.7 | 39.3 | -2.4 | 33.5 | - | 37.0 | 53.9 | 16.9 | Floor noise |

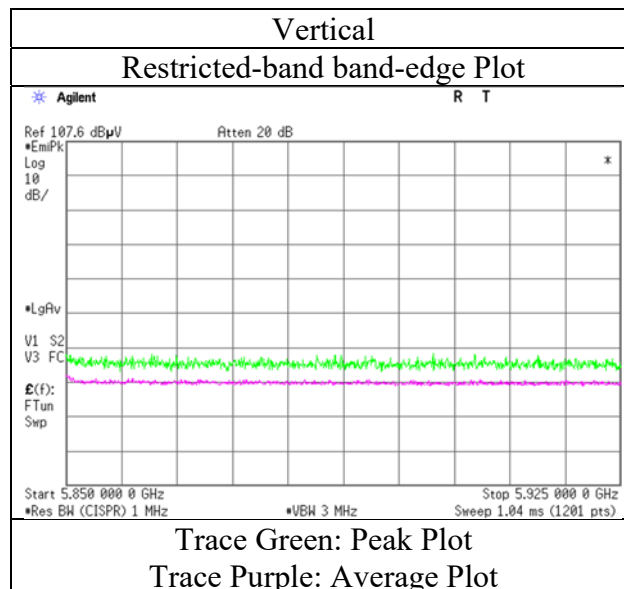
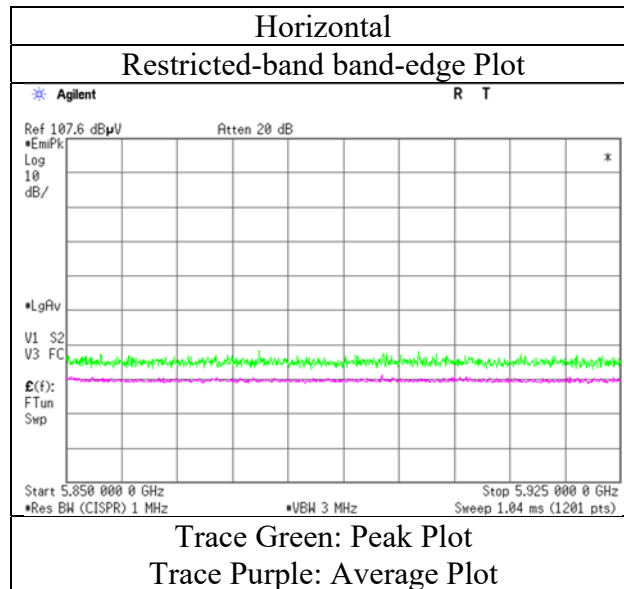
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-40 5795 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-80 5210 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5150.000 | PK | 44.5 | 31.7 | 5.9 | 31.8 | - | 50.3 | 73.9 | 23.7 | |
| Hori. | 10420.000 | PK | 42.8 | 40.0 | -3.1 | 33.5 | - | 46.2 | 68.2 | 22.0 | Floor noise |
| Hori. | 15630.000 | PK | 43.8 | 37.5 | -1.6 | 32.8 | - | 46.9 | 73.9 | 27.0 | Floor noise |
| Hori. | 5150.000 | AV | 34.6 | 31.7 | 5.9 | 31.8 | 0.8 | 41.2 | 53.9 | 12.7 | *1) |
| Hori. | 15630.000 | AV | 35.5 | 37.5 | -1.6 | 32.8 | - | 38.7 | 53.9 | 15.3 | Floor noise |
| Vert. | 5150.000 | PK | 44.4 | 31.7 | 5.9 | 31.8 | - | 50.2 | 73.9 | 23.7 | |
| Vert. | 10420.000 | PK | 42.3 | 40.0 | -3.1 | 33.5 | - | 45.7 | 68.2 | 22.5 | Floor noise |
| Vert. | 15630.000 | PK | 44.7 | 37.5 | -1.6 | 32.8 | - | 47.9 | 73.9 | 26.0 | Floor noise |
| Vert. | 5150.000 | AV | 35.3 | 31.7 | 5.9 | 31.8 | 0.8 | 41.9 | 53.9 | 12.0 | *1) |
| Vert. | 15630.000 | AV | 35.5 | 37.5 | -1.6 | 32.8 | - | 38.7 | 53.9 | 15.3 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

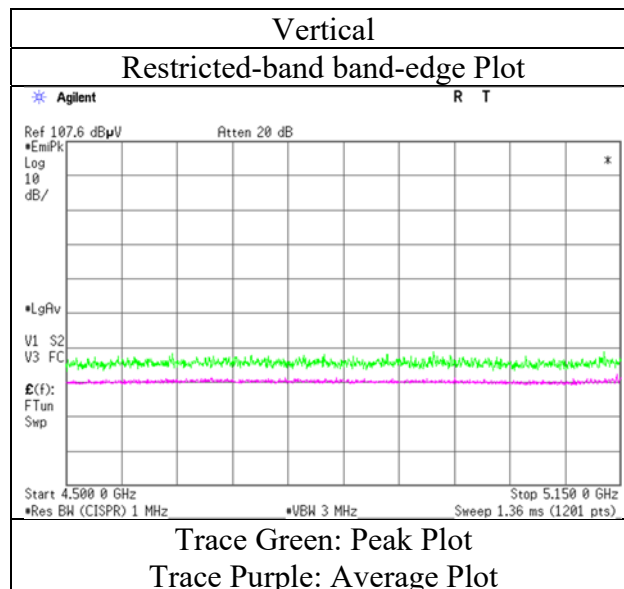
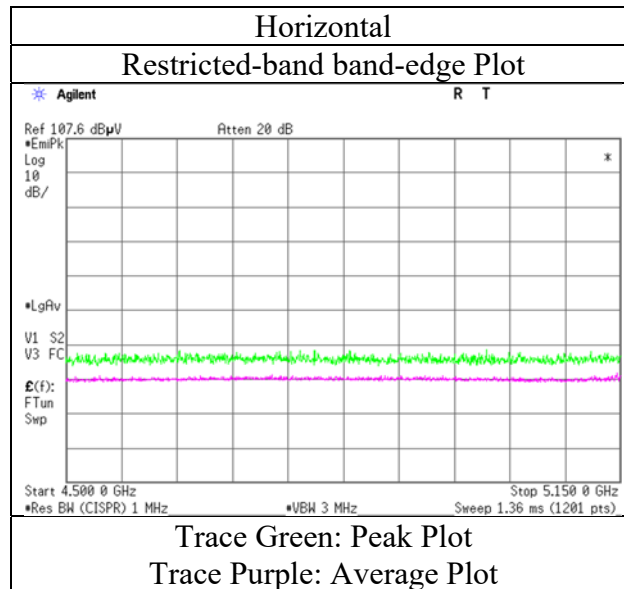
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date December 21, 2019
 Temperature / Humidity 23 deg. C / 40 % RH
 Engineer Yuta Moriya
 Mode Tx 11ax-80 5210 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

Ise EMC Lab.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-80 5290 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant. Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|------------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5350.000 | PK | 48.1 | 31.5 | 6.0 | 31.8 | - | 53.7 | 73.9 | 20.2 | |
| Hori. | 5354.567 | PK | 48.9 | 31.5 | 6.0 | 31.8 | - | 54.5 | 73.9 | 19.4 | |
| Hori. | 10580.000 | PK | 43.1 | 39.9 | -3.0 | 33.6 | - | 46.4 | 68.2 | 21.8 | Floor noise |
| Hori. | 15870.000 | PK | 43.7 | 37.6 | -1.7 | 32.8 | - | 46.8 | 73.9 | 27.1 | Floor noise |
| Hori. | 5350.000 | AV | 37.7 | 31.5 | 6.0 | 31.8 | 0.8 | 44.1 | 53.9 | 9.8 | *1) |
| Hori. | 5354.567 | AV | 37.9 | 31.5 | 6.0 | 31.8 | 0.8 | 44.3 | 53.9 | 9.6 | *1) |
| Hori. | 15870.000 | AV | 35.1 | 37.6 | -1.7 | 32.8 | - | 38.2 | 53.9 | 15.8 | Floor noise |
| Vert. | 5350.000 | PK | 51.2 | 31.5 | 6.0 | 31.8 | - | 56.8 | 73.9 | 17.1 | |
| Vert. | 5354.567 | PK | 53.2 | 31.5 | 6.0 | 31.8 | - | 58.8 | 73.9 | 15.2 | |
| Vert. | 10580.000 | PK | 42.1 | 39.9 | -3.0 | 33.6 | - | 45.5 | 68.2 | 22.8 | Floor noise |
| Vert. | 15870.000 | PK | 43.8 | 37.6 | -1.7 | 32.8 | - | 46.9 | 73.9 | 27.0 | Floor noise |
| Vert. | 5350.000 | AV | 41.0 | 31.5 | 6.0 | 31.8 | 0.8 | 47.3 | 53.9 | 6.6 | *1) |
| Vert. | 5354.567 | AV | 42.0 | 31.5 | 6.0 | 31.8 | 0.8 | 48.4 | 53.9 | 5.6 | *1) |
| Vert. | 15870.000 | AV | 35.1 | 37.6 | -1.7 | 32.8 | - | 38.2 | 53.9 | 15.8 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

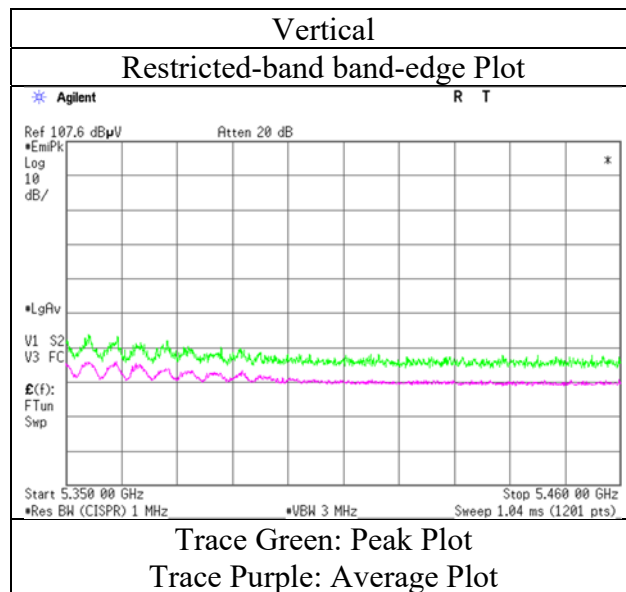
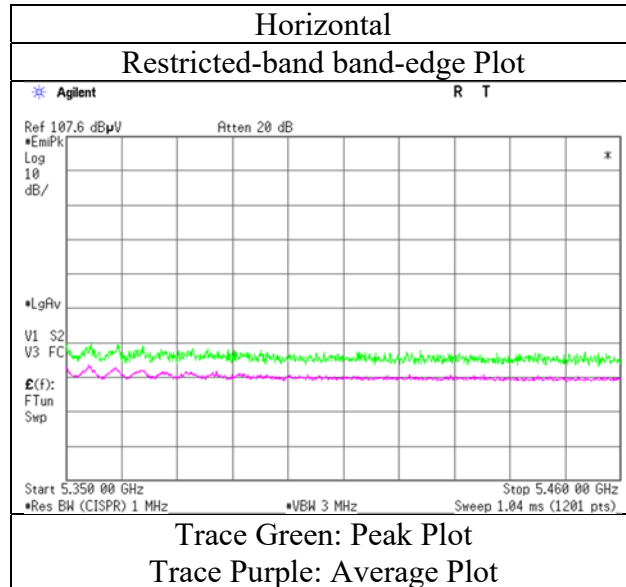
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019
Temperature / Humidity 23 deg. C / 40 % RH
Engineer Yuta Moriya
Mode Tx 11ax-80 5290 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-80 5530 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5460.000 | PK | 46.6 | 31.7 | 6.0 | 31.9 | - | 52.4 | 68.2 | 15.8 | |
| Hori. | 5470.000 | PK | 46.2 | 31.7 | 6.0 | 31.9 | - | 52.0 | 68.2 | 16.2 | |
| Hori. | 11060.000 | PK | 42.3 | 39.8 | -2.7 | 33.6 | - | 45.8 | 73.9 | 28.1 | Floor noise |
| Hori. | 16590.000 | PK | 43.9 | 40.3 | -1.6 | 32.7 | - | 50.0 | 68.2 | 18.2 | Floor noise |
| Hori. | 5460.000 | AV | 36.8 | 31.7 | 6.0 | 31.9 | 0.8 | 43.4 | 53.9 | 10.5 | *1) |
| Hori. | 11060.000 | AV | 34.0 | 39.8 | -2.7 | 33.6 | - | 37.5 | 53.9 | 16.4 | Floor noise |
| Vert. | 5460.000 | PK | 48.6 | 31.7 | 6.0 | 31.9 | - | 54.5 | 68.2 | 13.7 | |
| Vert. | 5470.000 | PK | 49.2 | 31.7 | 6.0 | 31.9 | - | 55.1 | 68.2 | 13.1 | |
| Vert. | 11060.000 | PK | 42.2 | 39.8 | -2.7 | 33.6 | - | 45.7 | 73.9 | 28.2 | Floor noise |
| Vert. | 16590.000 | PK | 43.7 | 40.3 | -1.6 | 32.7 | - | 49.8 | 68.2 | 18.5 | Floor noise |
| Vert. | 5460.000 | AV | 38.4 | 31.7 | 6.0 | 31.9 | 0.8 | 45.0 | 53.9 | 8.9 | *1) |
| Vert. | 11060.000 | AV | 34.0 | 39.8 | -2.7 | 33.6 | - | 37.5 | 53.9 | 16.4 | Floor noise |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

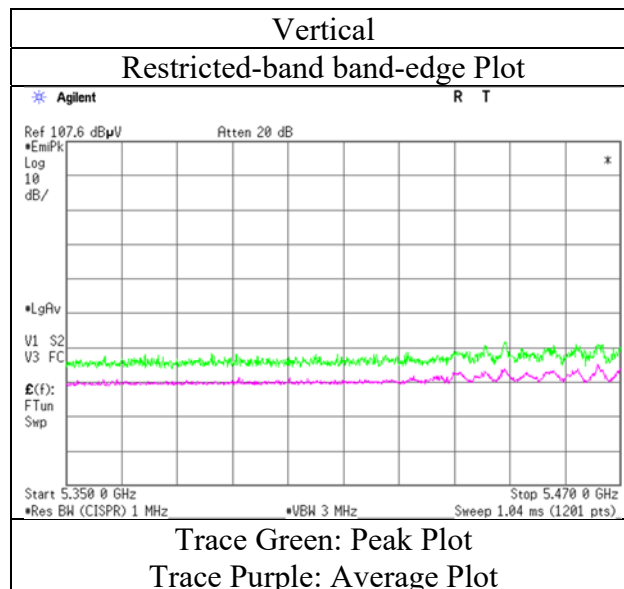
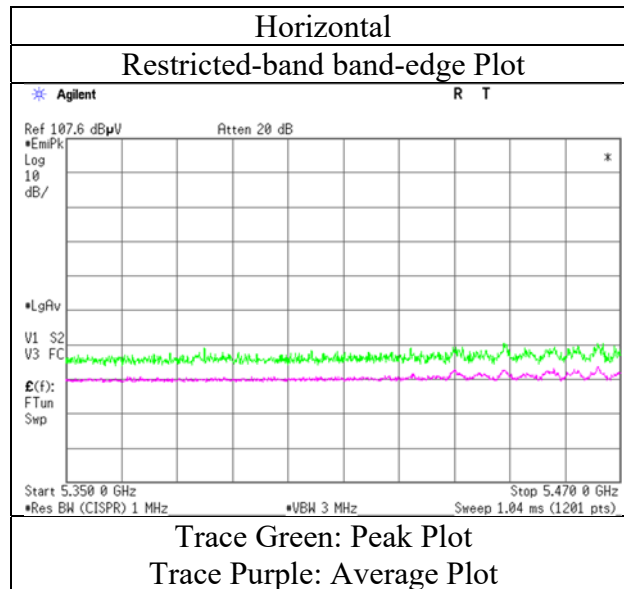
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
 (PIFA Antenna)

| | |
|------------------------|---|
| Report No. | 13170804H |
| Test place | Ise EMC Lab. No.3 Semi Anechoic Chamber |
| Date | December 21, 2019 |
| Temperature / Humidity | 23 deg. C / 40 % RH |
| Engineer | Yuta Moriya |
| Mode | Tx 11ax-80 5530 MHz (OFDM) |



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-80 5610 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5725.000 | PK | 41.3 | 32.0 | 6.1 | 31.9 | - | 47.5 | 68.2 | 20.7 | |
| Hori. | 11220.000 | PK | 42.5 | 39.6 | -2.6 | 33.6 | - | 45.9 | 73.9 | 28.0 | Floor noise |
| Hori. | 16830.000 | PK | 43.3 | 41.5 | -1.5 | 32.6 | - | 50.7 | 68.2 | 17.5 | Floor noise |
| Hori. | 11220.000 | AV | 34.0 | 39.6 | -2.6 | 33.6 | - | 37.4 | 53.9 | 16.5 | Floor noise |
| Vert. | 5725.000 | PK | 40.7 | 32.0 | 6.1 | 31.9 | - | 46.9 | 68.2 | 21.3 | |
| Vert. | 11220.000 | PK | 43.1 | 39.6 | -2.6 | 33.6 | - | 46.5 | 73.9 | 27.4 | Floor noise |
| Vert. | 16830.000 | PK | 43.3 | 41.5 | -1.5 | 32.6 | - | 50.7 | 68.2 | 17.5 | Floor noise |
| Vert. | 11220.000 | AV | 34.0 | 39.6 | -2.6 | 33.6 | - | 37.4 | 53.9 | 16.5 | Floor noise |

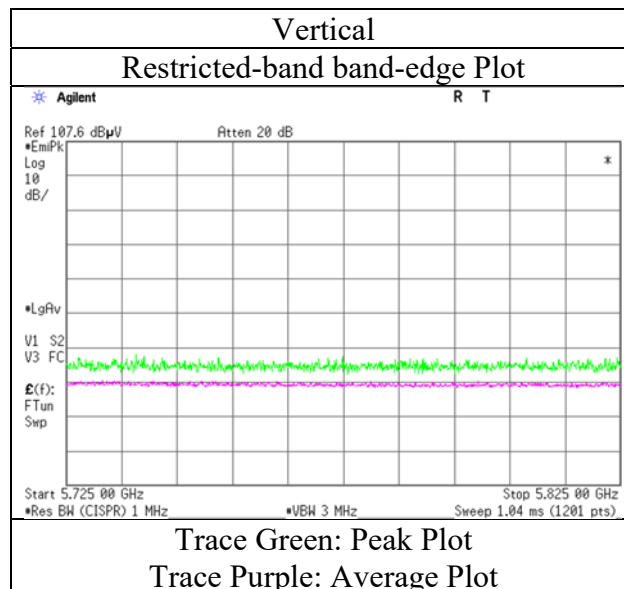
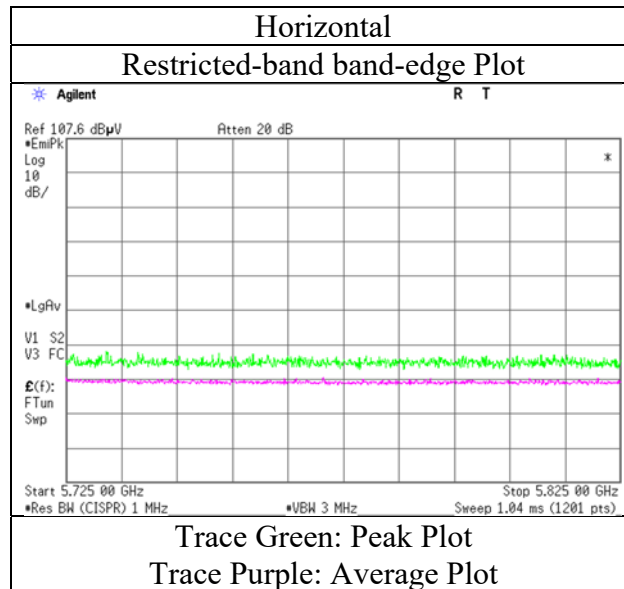
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date December 21, 2019
 Temperature / Humidity 23 deg. C / 40 % RH
 Engineer Yuta Moriya
 Mode Tx 11ax-80 5610 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date December 21, 2019 January 9, 2020 January 9, 2020
Temperature / Humidity 23 deg. C / 40 % RH 22 deg. C / 34 % RH 24 deg. C / 35 % RH
Engineer Yuta Moriya Junki Nagatomi Tomohisa Nakagawa
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 40 GHz)
Mode Tx 11ax-80 5775 MHz (OFDM)

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|-------------|
| Hori. | 5650.000 | PK | 41.6 | 31.8 | 6.1 | 31.9 | - | 47.6 | 68.2 | 20.6 | |
| Hori. | 5700.000 | PK | 47.0 | 31.9 | 6.1 | 31.9 | - | 53.1 | 105.2 | 52.1 | |
| Hori. | 5720.000 | PK | 51.1 | 32.0 | 6.1 | 31.9 | - | 57.2 | 110.8 | 53.6 | |
| Hori. | 5725.000 | PK | 51.7 | 32.0 | 6.1 | 31.9 | - | 57.8 | 122.2 | 64.4 | |
| Hori. | 5850.000 | PK | 45.3 | 32.2 | 6.1 | 31.9 | - | 51.7 | 122.2 | 70.5 | |
| Hori. | 5855.000 | PK | 42.9 | 32.2 | 6.1 | 31.9 | - | 49.4 | 110.8 | 61.5 | |
| Hori. | 5875.000 | PK | 42.0 | 32.3 | 6.2 | 31.9 | - | 48.4 | 105.2 | 56.8 | |
| Hori. | 5925.000 | PK | 40.6 | 32.3 | 6.2 | 31.9 | - | 47.2 | 68.2 | 21.1 | |
| Hori. | 11550.000 | PK | 42.5 | 39.8 | -2.5 | 33.5 | - | 46.4 | 73.9 | 27.5 | Floor noise |
| Hori. | 17325.000 | PK | 44.4 | 43.8 | -1.4 | 32.6 | - | 54.2 | 68.2 | 14.0 | Floor noise |
| Hori. | 11550.000 | AV | 33.7 | 39.8 | -2.5 | 33.5 | - | 37.5 | 53.9 | 16.4 | Floor noise |
| Vert. | 5650.000 | PK | 41.7 | 31.8 | 6.1 | 31.9 | - | 47.6 | 68.2 | 20.6 | |
| Vert. | 5700.000 | PK | 49.5 | 31.9 | 6.1 | 31.9 | - | 55.6 | 105.2 | 49.6 | |
| Vert. | 5720.000 | PK | 52.6 | 32.0 | 6.1 | 31.9 | - | 58.7 | 110.8 | 52.1 | |
| Vert. | 5725.000 | PK | 54.0 | 32.0 | 6.1 | 31.9 | - | 60.2 | 122.2 | 62.0 | |
| Vert. | 5850.000 | PK | 47.4 | 32.2 | 6.1 | 31.9 | - | 53.8 | 122.2 | 68.4 | |
| Vert. | 5855.000 | PK | 46.6 | 32.2 | 6.1 | 31.9 | - | 53.0 | 110.8 | 57.8 | |
| Vert. | 5875.000 | PK | 42.3 | 32.3 | 6.2 | 31.9 | - | 48.7 | 105.2 | 56.5 | |
| Vert. | 5925.000 | PK | 40.5 | 32.3 | 6.2 | 31.9 | - | 47.0 | 68.2 | 21.2 | |
| Vert. | 11550.000 | PK | 42.2 | 39.8 | -2.5 | 33.5 | - | 46.0 | 73.9 | 27.9 | Floor noise |
| Vert. | 17325.000 | PK | 44.2 | 43.8 | -1.4 | 32.6 | - | 54.0 | 68.2 | 14.2 | Floor noise |
| Vert. | 11550.000 | AV | 33.7 | 39.8 | -2.5 | 33.5 | - | 37.5 | 53.9 | 16.4 | Floor noise |

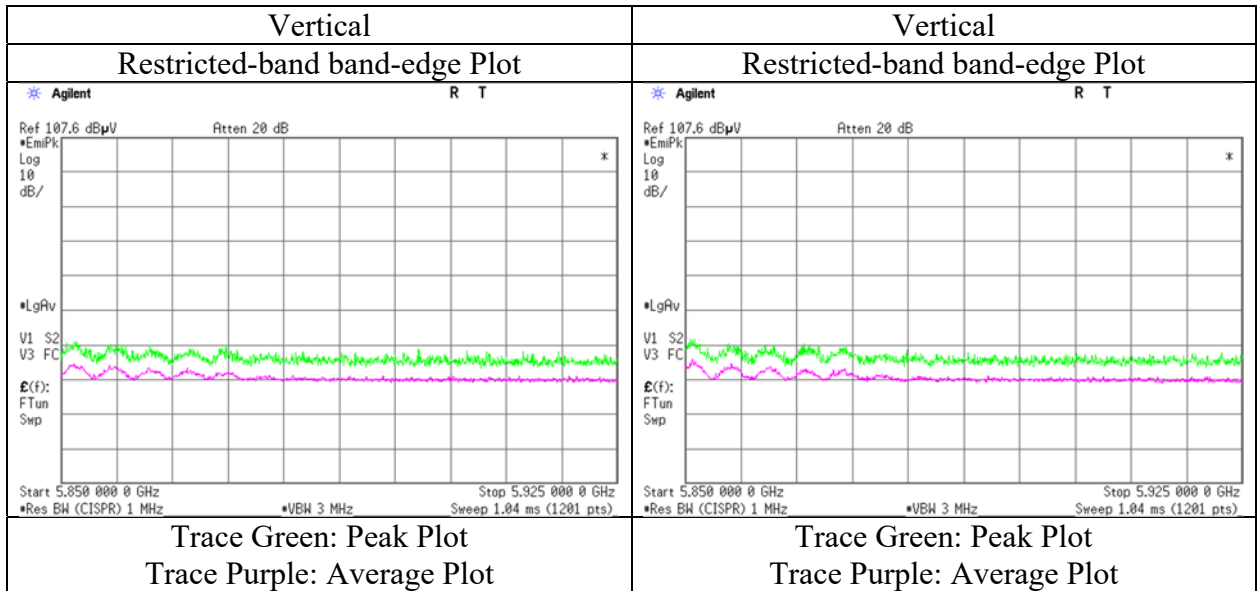
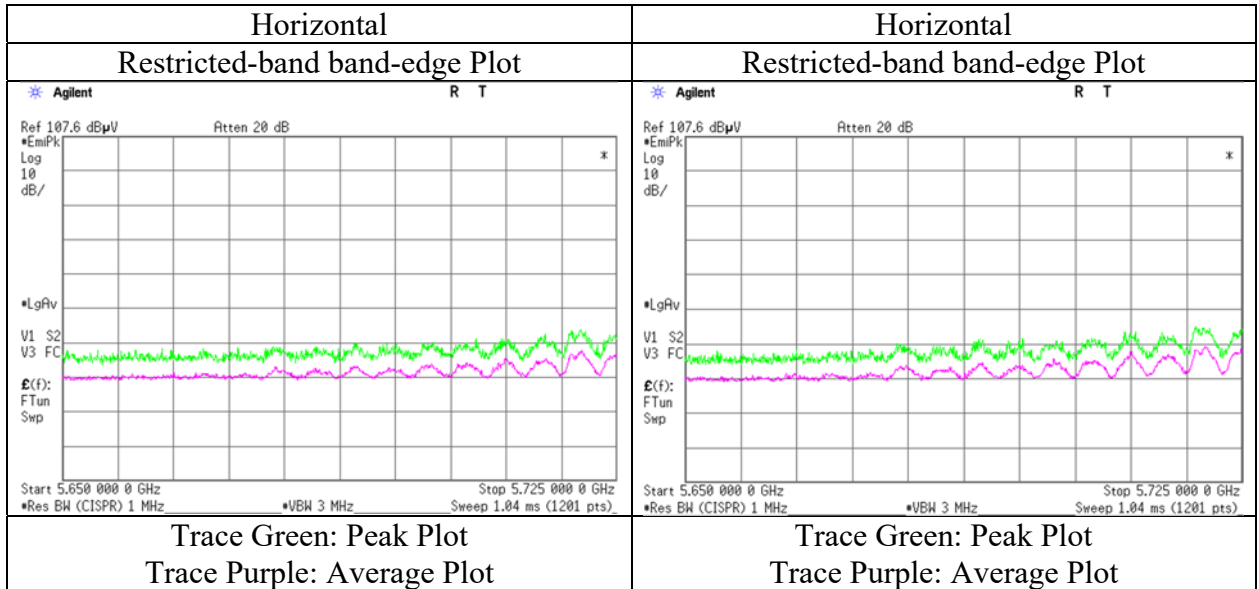
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date December 21, 2019
 Temperature / Humidity 23 deg. C / 40 % RH
 Engineer Yuta Moriya
 Mode Tx 11ax-80 5775 MHz (OFDM)



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 25, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (26-tone RU)

RU Index 0

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 40.6 | 31.7 | 5.9 | 31.8 | - | 46.4 | 73.9 | 27.5 | |
| Hori. | 5150.000 | AV | 32.6 | 31.7 | 5.9 | 31.8 | 0.2 | 38.6 | 53.9 | 15.3 | *1) |
| Vert. | 5150.000 | PK | 40.6 | 31.7 | 5.9 | 31.8 | - | 46.4 | 73.9 | 27.5 | |
| Vert. | 5150.000 | AV | 32.6 | 31.7 | 5.9 | 31.8 | 0.2 | 38.6 | 53.9 | 15.3 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

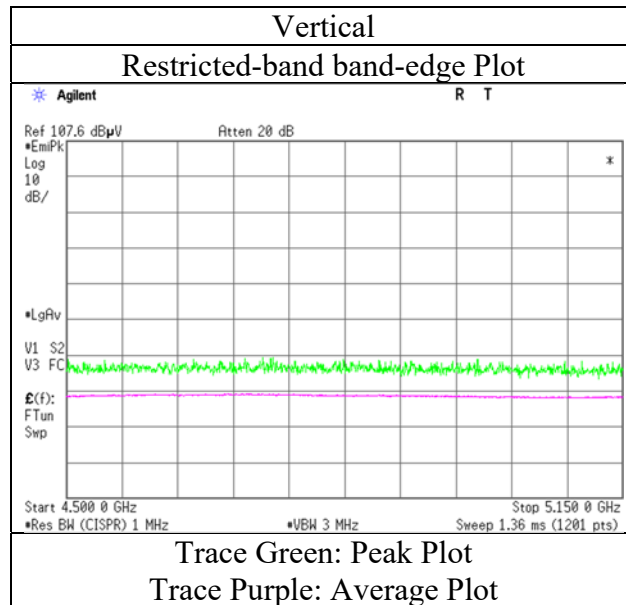
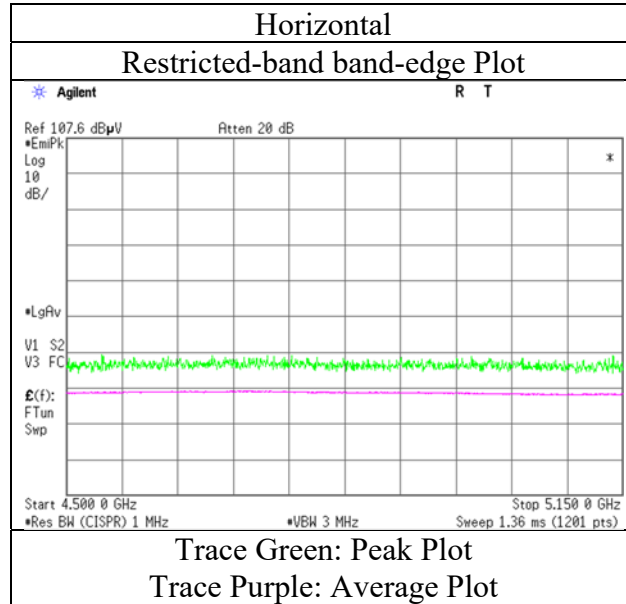
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 25, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (26-tone RU)

RU Index 0



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 25, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (52-tone RU)

RU Index 37

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 40.6 | 31.7 | 5.9 | 31.8 | - | 46.4 | 73.9 | 27.5 | |
| Hori. | 5150.000 | AV | 32.5 | 31.7 | 5.9 | 31.8 | 0.2 | 38.6 | 53.9 | 15.4 | *1) |
| Vert. | 5150.000 | PK | 40.7 | 31.7 | 5.9 | 31.8 | - | 46.5 | 73.9 | 27.4 | |
| Vert. | 5150.000 | AV | 32.7 | 31.7 | 5.9 | 31.8 | 0.2 | 38.7 | 53.9 | 15.2 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

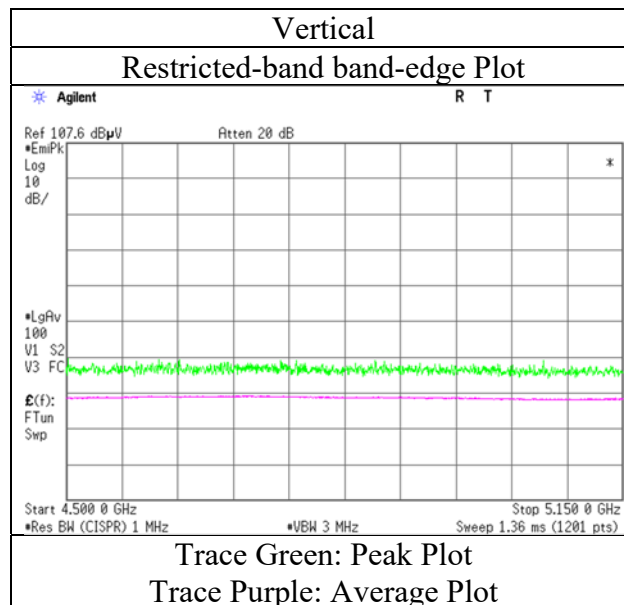
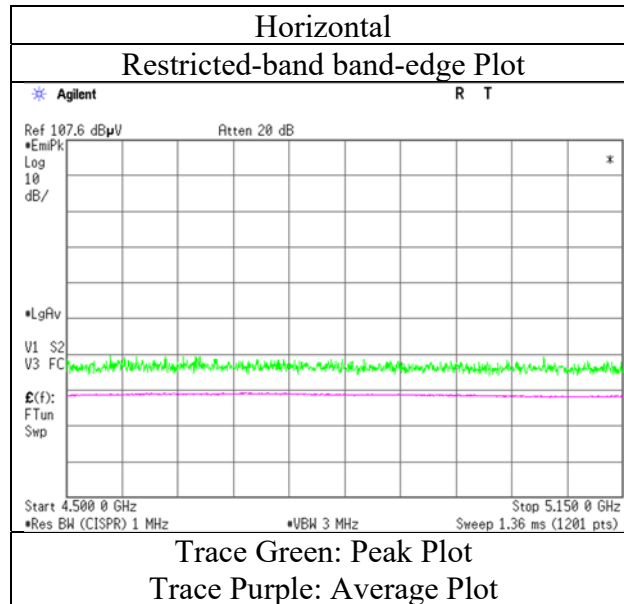
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 25, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (52-tone RU)

RU Index 37



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 25, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (106-tone RU)

RU Index 53

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 40.6 | 31.7 | 5.9 | 31.8 | - | 46.4 | 73.9 | 27.5 | |
| Hori. | 5150.000 | AV | 32.5 | 31.7 | 5.9 | 31.8 | 0.2 | 38.5 | 53.9 | 15.4 | *1) |
| Vert. | 5150.000 | PK | 40.7 | 31.7 | 5.9 | 31.8 | - | 46.5 | 73.9 | 27.4 | |
| Vert. | 5150.000 | AV | 32.7 | 31.7 | 5.9 | 31.8 | 0.2 | 38.7 | 53.9 | 15.2 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

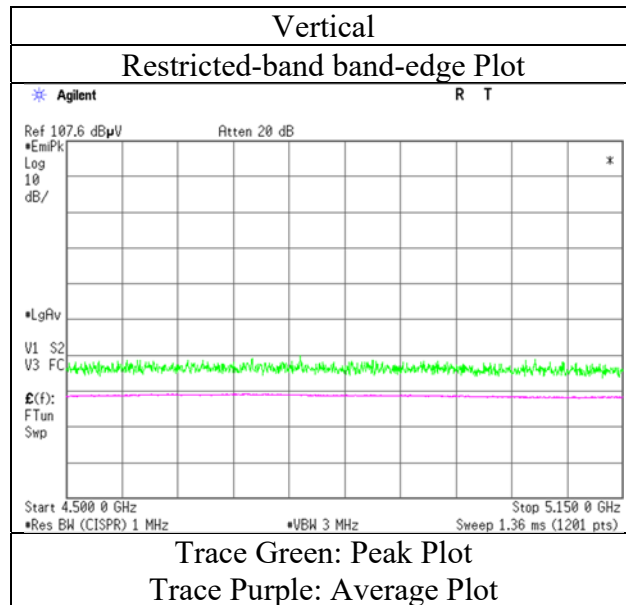
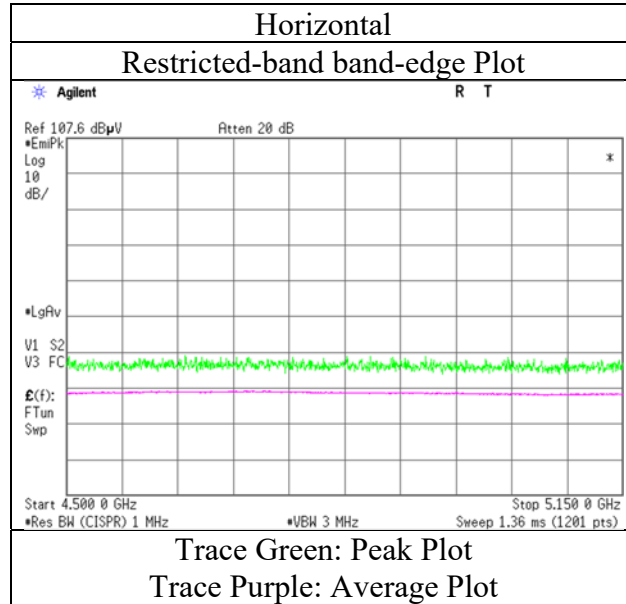
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 25, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (106-tone RU)

RU Index 53



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5180 MHz (242-tone RU)

RU Index 61

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 40.3 | 31.7 | 6.0 | 31.6 | - | 46.3 | 73.9 | 27.6 | |
| Hori. | 5150.000 | AV | 32.2 | 31.7 | 6.0 | 31.6 | 0.3 | 38.5 | 53.9 | 15.5 | *1) |
| Vert. | 5150.000 | PK | 49.1 | 31.7 | 6.0 | 31.6 | - | 55.2 | 73.9 | 18.7 | |
| Vert. | 5150.000 | AV | 32.1 | 31.7 | 6.0 | 31.6 | 0.3 | 38.4 | 53.9 | 15.5 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

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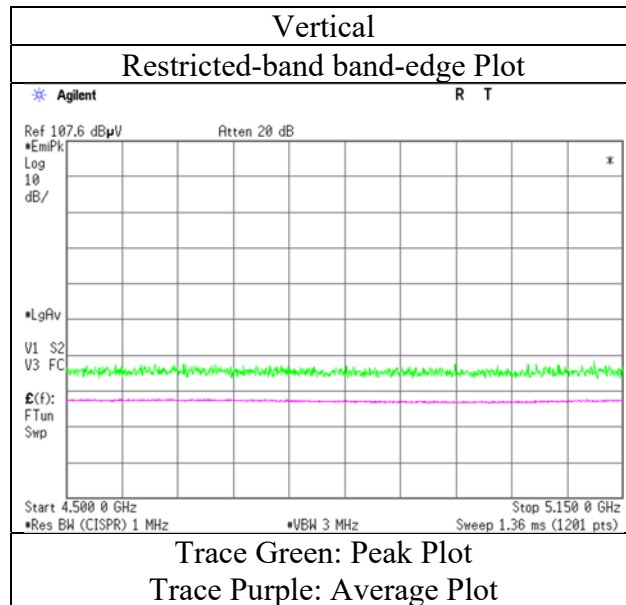
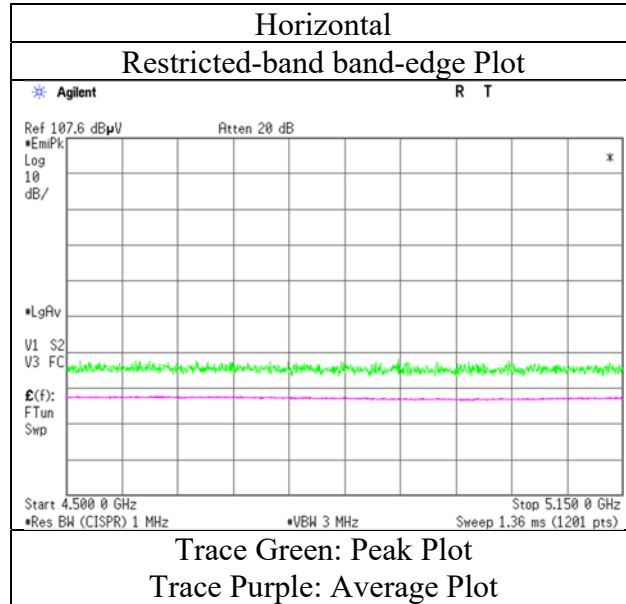
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date April 6, 2020
 Temperature / Humidity 20 deg. C / 27 % RH
 Engineer Yuta Moriya
 (1 GHz - 10 GHz)
 Mode Tx 11ax-20 5180 MHz (242-tone RU)

RU Index 61



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (26-tone RU)

RU Index 8

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5350.000 | PK | 40.5 | 31.5 | 6.0 | 31.8 | - | 46.1 | 73.9 | 27.8 | |
| Hori. | 5350.000 | AV | 32.2 | 31.5 | 6.0 | 31.8 | 0.2 | 38.0 | 53.9 | 15.9 | *1) |
| Vert. | 5350.000 | PK | 40.3 | 31.5 | 6.0 | 31.8 | - | 45.9 | 73.9 | 28.0 | |
| Vert. | 5350.000 | AV | 32.2 | 31.5 | 6.0 | 31.8 | 0.2 | 38.0 | 53.9 | 15.9 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

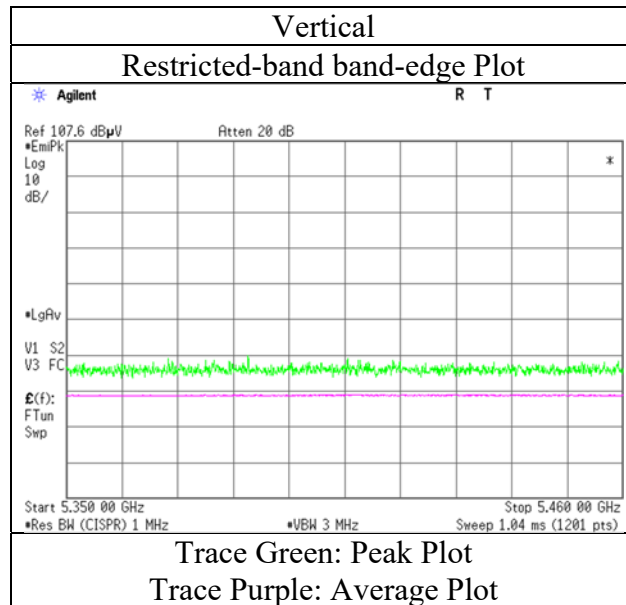
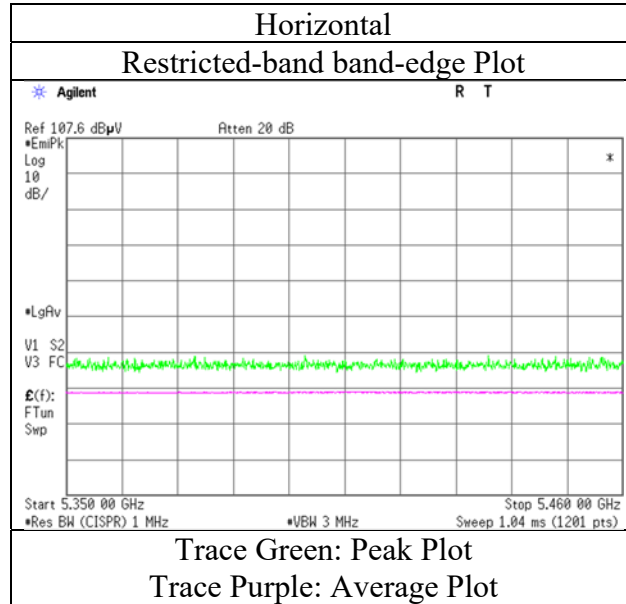
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (26-tone RU)

RU Index 8



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (52-tone RU)

RU Index 40

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5350.000 | PK | 40.5 | 31.5 | 6.0 | 31.8 | - | 46.1 | 73.9 | 27.8 | |
| Hori. | 5350.000 | AV | 32.3 | 31.5 | 6.0 | 31.8 | 0.2 | 38.1 | 53.9 | 15.8 | *1) |
| Vert. | 5350.000 | PK | 40.4 | 31.5 | 6.0 | 31.8 | - | 46.0 | 73.9 | 27.9 | |
| Vert. | 5350.000 | AV | 32.2 | 31.5 | 6.0 | 31.8 | 0.2 | 38.0 | 53.9 | 15.9 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

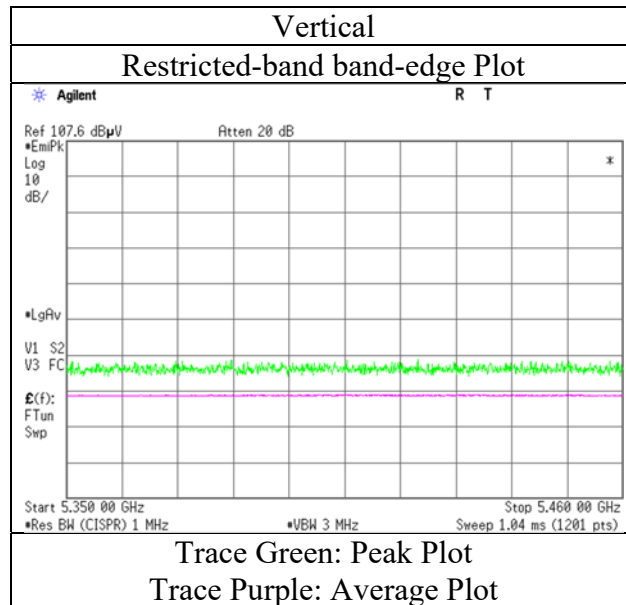
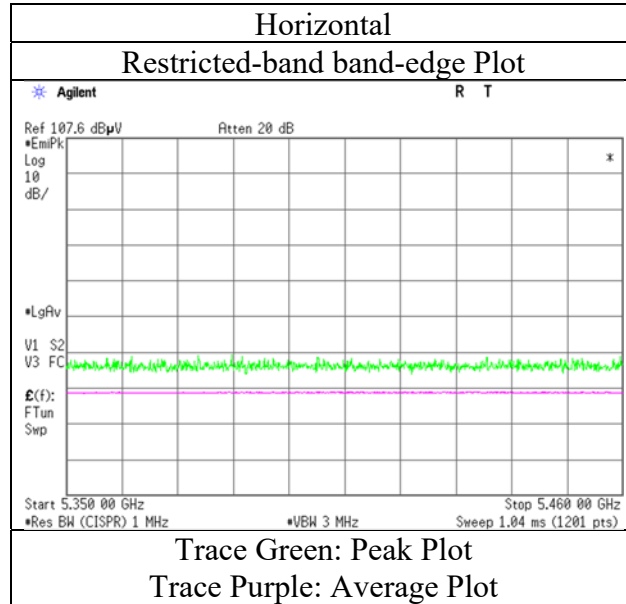
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (52-tone RU)

RU Index 40



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (106-tone RU)

RU Index 54

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5350.000 | PK | 40.7 | 31.5 | 6.0 | 31.8 | - | 46.3 | 73.9 | 27.6 | |
| Hori. | 5350.000 | AV | 32.6 | 31.5 | 6.0 | 31.8 | 0.2 | 38.4 | 53.9 | 15.5 | *1) |
| Vert. | 5350.000 | PK | 40.6 | 31.5 | 6.0 | 31.8 | - | 46.1 | 73.9 | 27.8 | |
| Vert. | 5350.000 | AV | 32.4 | 31.5 | 6.0 | 31.8 | 0.2 | 38.2 | 53.9 | 15.7 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

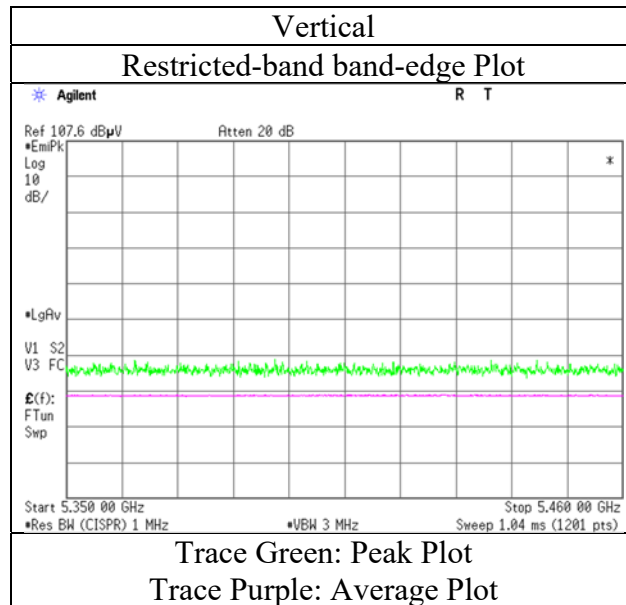
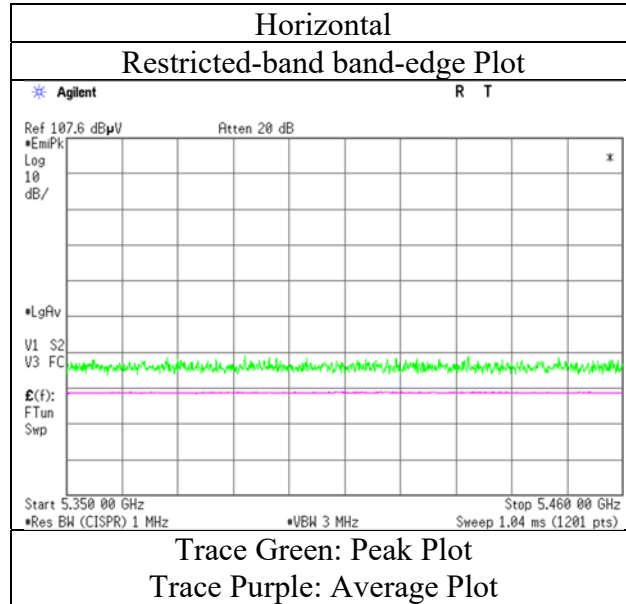
Distance factor: 1 GHz - 10 GHz 20log(3.9 m / 3.0 m) = 2.28 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (106-tone RU)

RU Index 54



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

Ise EMC Lab.

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Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (242-tone RU)

RU Index 61

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5350.000 | PK | 40.3 | 31.5 | 6.1 | 31.7 | - | 46.1 | 73.9 | 27.8 | |
| Hori. | 5350.000 | AV | 32.3 | 31.5 | 6.1 | 31.7 | 0.3 | 38.4 | 53.9 | 15.5 | *1) |
| Vert. | 5350.000 | PK | 41.2 | 31.5 | 6.1 | 31.7 | - | 47.0 | 73.9 | 26.9 | |
| Vert. | 5350.000 | AV | 32.2 | 31.5 | 6.1 | 31.7 | 0.3 | 38.3 | 53.9 | 15.6 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

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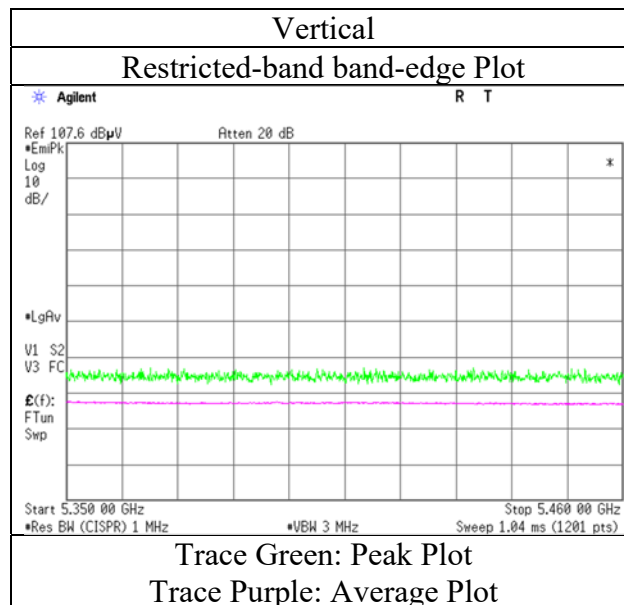
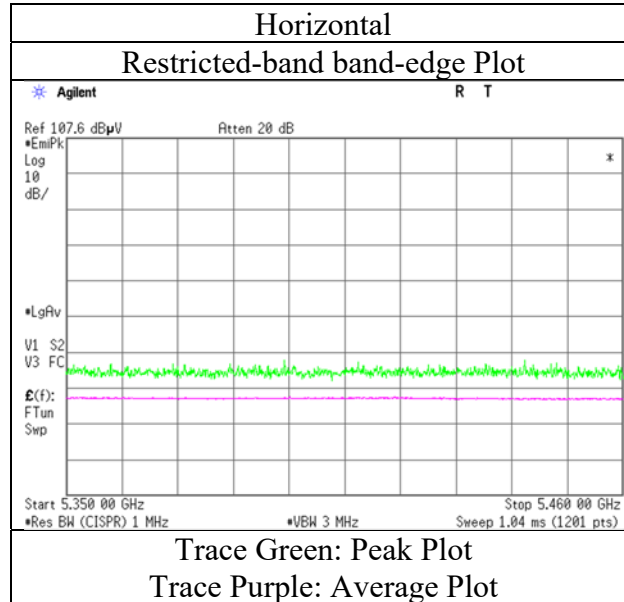
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5320 MHz (242-tone RU)

RU Index 61



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

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Telephone : +81 596 24 8999

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5500 MHz (26-tone RU)

RU Index 0

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5460.000 | PK | 40.3 | 31.7 | 6.0 | 31.9 | - | 46.1 | 68.2 | 22.1 | |
| Hori. | 5470.000 | PK | 40.5 | 31.7 | 6.0 | 31.9 | - | 46.3 | 68.2 | 21.9 | |
| Hori. | 5460.000 | AV | 32.5 | 31.7 | 6.0 | 31.9 | 0.2 | 38.5 | 53.9 | 15.4 | *1) |
| Vert. | 5460.000 | PK | 40.3 | 31.7 | 6.0 | 31.9 | - | 46.1 | 68.2 | 22.1 | |
| Vert. | 5470.000 | PK | 40.3 | 31.7 | 6.0 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Vert. | 5460.000 | AV | 32.2 | 31.7 | 6.0 | 31.9 | 0.2 | 38.3 | 53.9 | 15.7 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

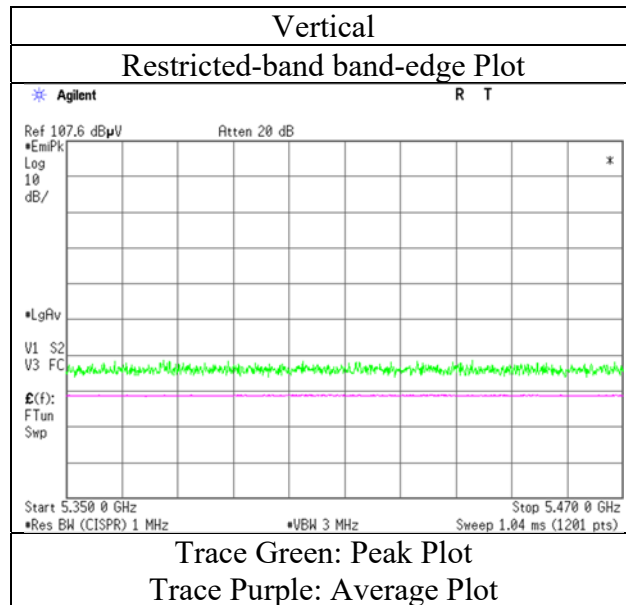
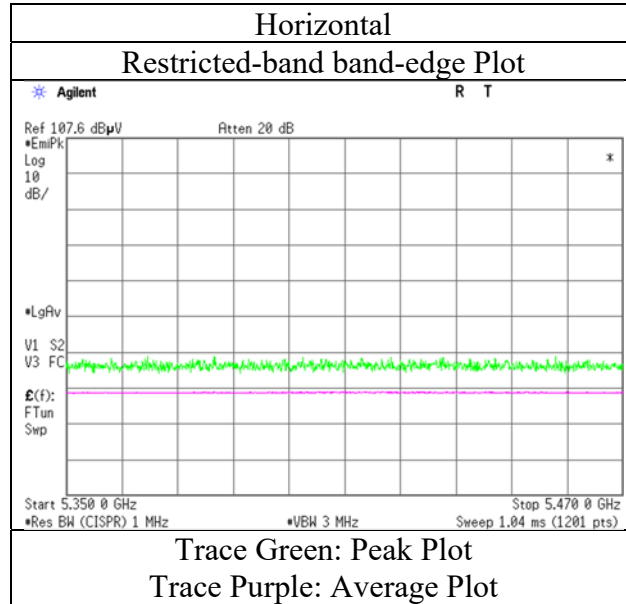
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5500 MHz (26-tone RU)

RU Index 0



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5500 MHz (52-tone RU)

RU Index37

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5460.000 | PK | 40.4 | 31.7 | 6.0 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Hori. | 5470.000 | PK | 40.5 | 31.7 | 6.0 | 31.9 | - | 46.4 | 68.2 | 21.9 | |
| Hori. | 5460.000 | AV | 32.5 | 31.7 | 6.0 | 31.9 | 0.2 | 38.6 | 53.9 | 15.4 | *1) |
| Vert. | 5460.000 | PK | 40.3 | 31.7 | 6.0 | 31.9 | - | 46.1 | 68.2 | 22.1 | |
| Vert. | 5470.000 | PK | 40.4 | 31.7 | 6.0 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Vert. | 5460.000 | AV | 32.5 | 31.7 | 6.0 | 31.9 | 0.2 | 38.5 | 53.9 | 15.4 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

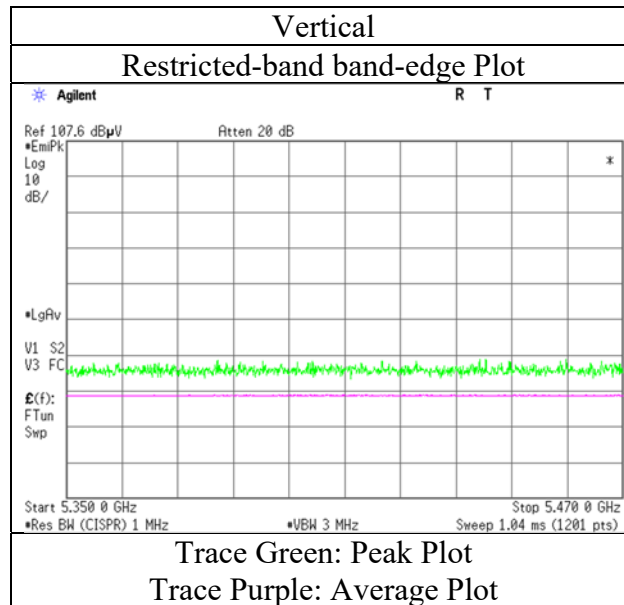
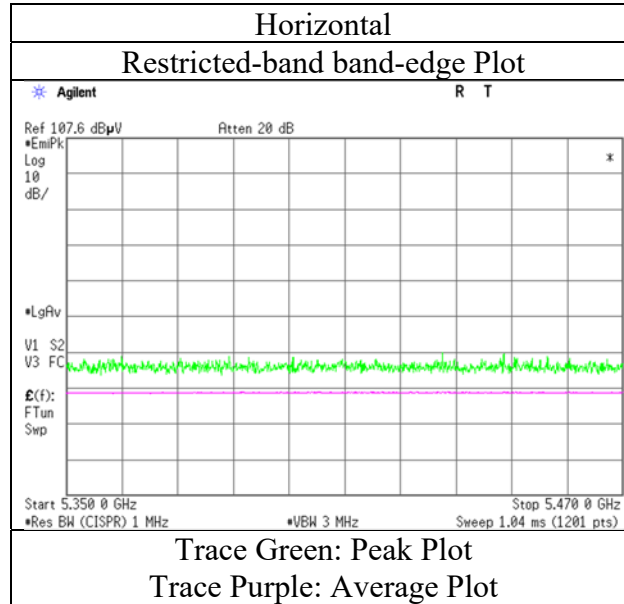
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date February 27, 2020
 Temperature / Humidity 23 deg. C / 31 % RH
 Engineer Yuta Moriya
 (1 GHz - 10 GHz)
 Mode Tx 11ax-20 5500 MHz (52-tone RU)

RU Index37



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5500 MHz (106-tone RU)

RU Index 53

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5460.000 | PK | 40.4 | 31.7 | 6.0 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Hori. | 5470.000 | PK | 40.5 | 31.7 | 6.0 | 31.9 | - | 46.4 | 68.2 | 21.8 | |
| Hori. | 5460.000 | AV | 32.5 | 31.7 | 6.0 | 31.9 | 0.2 | 38.6 | 53.9 | 15.3 | *1) |
| Vert. | 5460.000 | PK | 40.3 | 31.7 | 6.0 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Vert. | 5470.000 | PK | 40.4 | 31.7 | 6.0 | 31.9 | - | 46.3 | 68.2 | 22.0 | |
| Vert. | 5460.000 | AV | 32.4 | 31.7 | 6.0 | 31.9 | 0.2 | 38.5 | 53.9 | 15.4 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

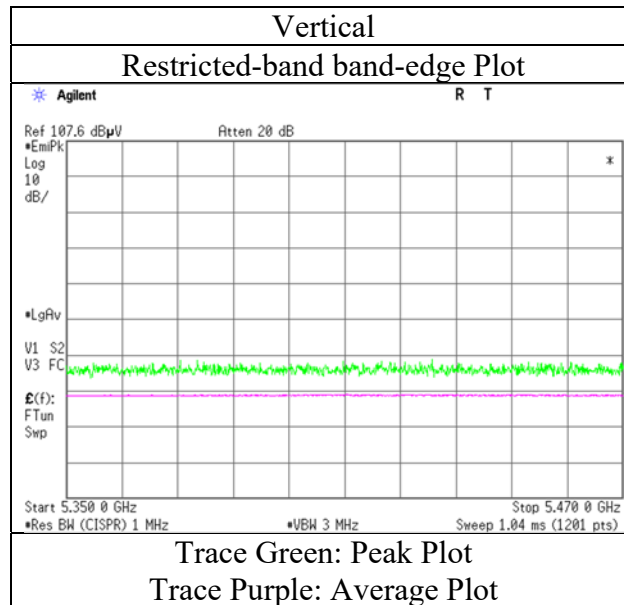
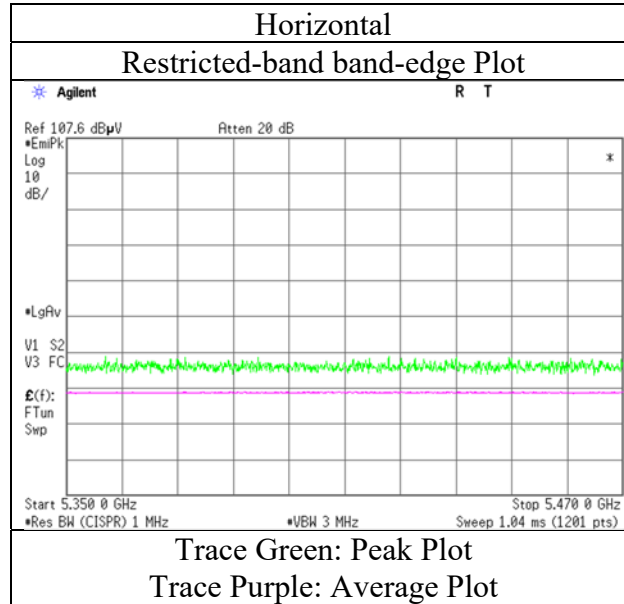
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5500 MHz (106-tone RU)

RU Index 53



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5500 MHz (242-tone RU)

RU Index 61

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5460.000 | PK | 39.7 | 31.7 | 6.1 | 31.7 | - | 45.8 | 68.2 | 22.4 | |
| Hori. | 5470.000 | PK | 41.9 | 31.7 | 6.1 | 31.7 | - | 48.0 | 68.2 | 20.2 | |
| Hori. | 5460.000 | AV | 32.2 | 31.7 | 6.1 | 31.7 | 0.3 | 38.5 | 53.9 | 15.4 | *1) |
| Vert. | 5460.000 | PK | 39.7 | 31.7 | 6.1 | 31.7 | - | 45.7 | 68.2 | 22.5 | |
| Vert. | 5470.000 | PK | 40.9 | 31.7 | 6.1 | 31.7 | - | 47.0 | 68.2 | 21.2 | |
| Vert. | 5460.000 | AV | 32.2 | 31.7 | 6.1 | 31.7 | 0.3 | 38.5 | 53.9 | 15.4 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Notes

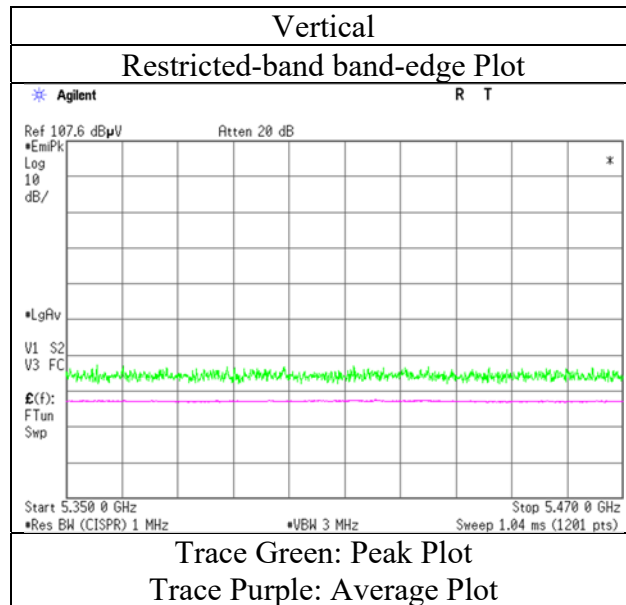
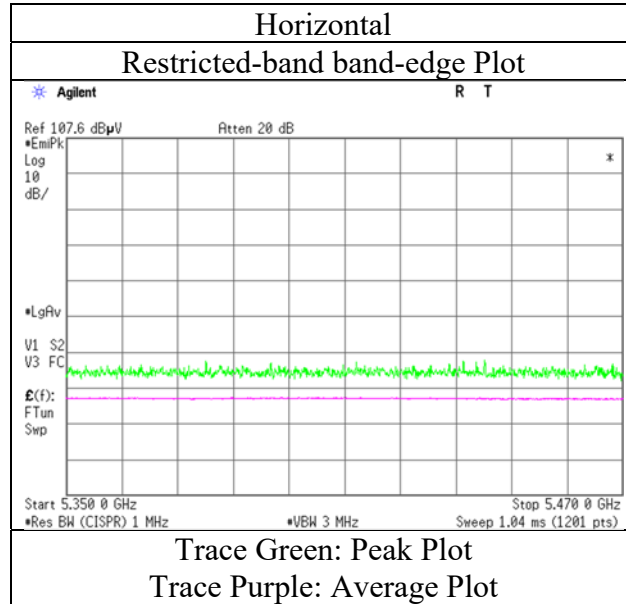
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5500 MHz (242-tone RU)

RU Index 61



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5700 MHz (26-tone RU)

RU Index 8

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5725.000 | PK | 40.3 | 32.0 | 6.1 | 31.9 | - | 46.5 | 68.2 | 21.8 | |
| Vert. | 5725.000 | PK | 40.3 | 32.0 | 6.1 | 31.9 | - | 46.5 | 68.2 | 21.7 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

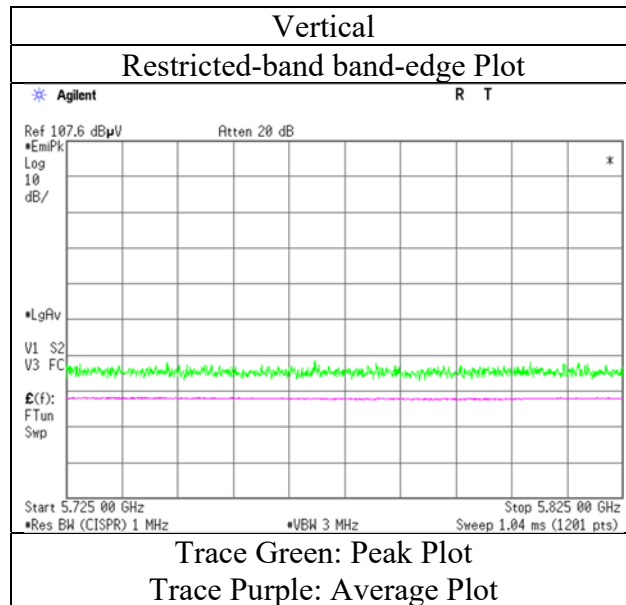
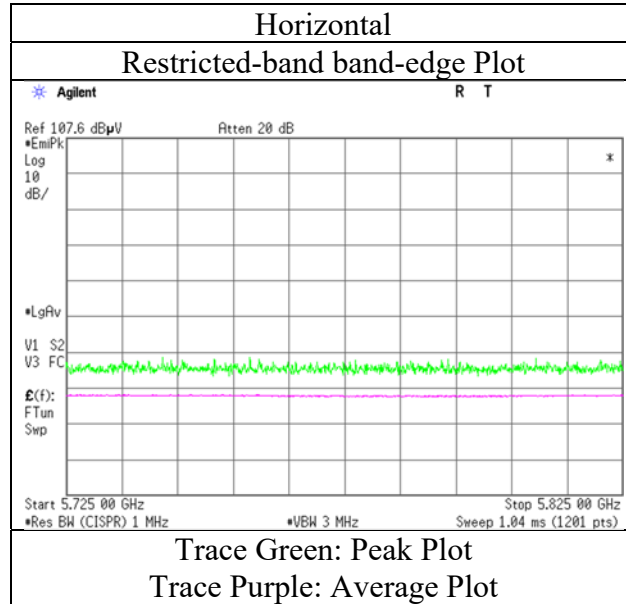
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5700 MHz (26-tone RU)

RU Index 8



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5700 MHz (52-tone RU)

RU Index 40

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori. | 5725.000 | PK | 40.2 | 32.0 | 6.1 | 31.9 | - | 46.4 | 68.2 | 21.8 | |
| Vert. | 5725.000 | PK | 40.2 | 32.0 | 6.1 | 31.9 | - | 46.4 | 68.2 | 21.8 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

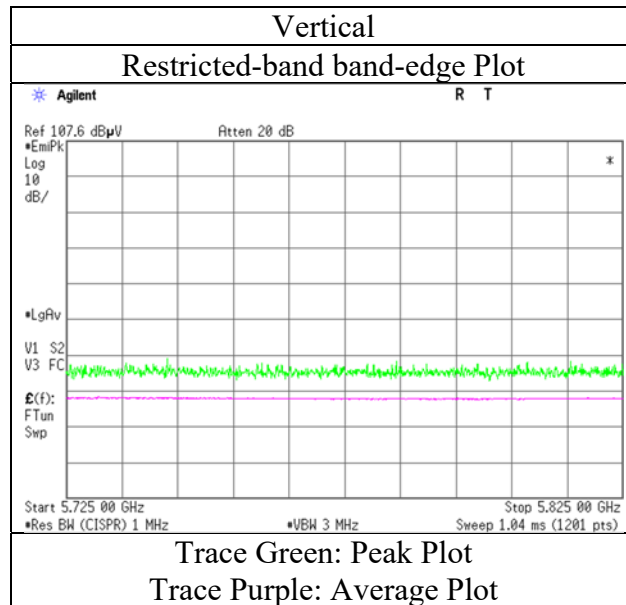
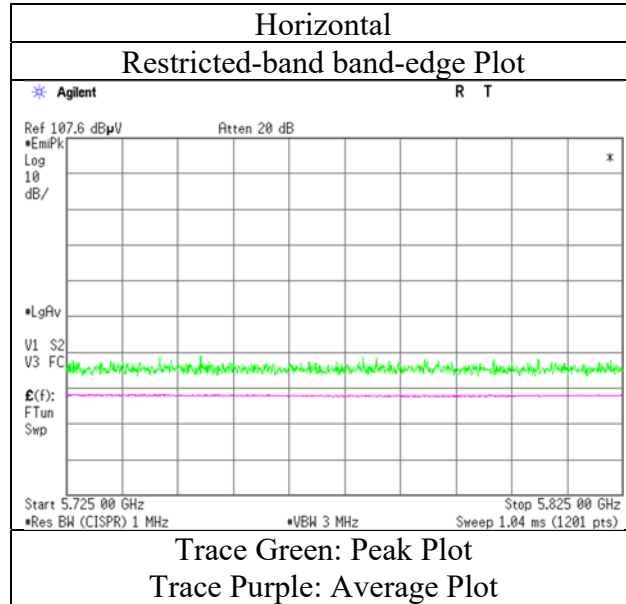
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5700 MHz(52-tone RU)

RU Index 40



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5700 MHz (106-tone RU)

RU Index 54

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5725.000 | PK | 40.3 | 32.0 | 6.1 | 31.9 | - | 46.4 | 68.2 | 21.8 | |
| Vert. | 5725.000 | PK | 40.3 | 32.0 | 6.1 | 31.9 | - | 46.5 | 68.2 | 21.7 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

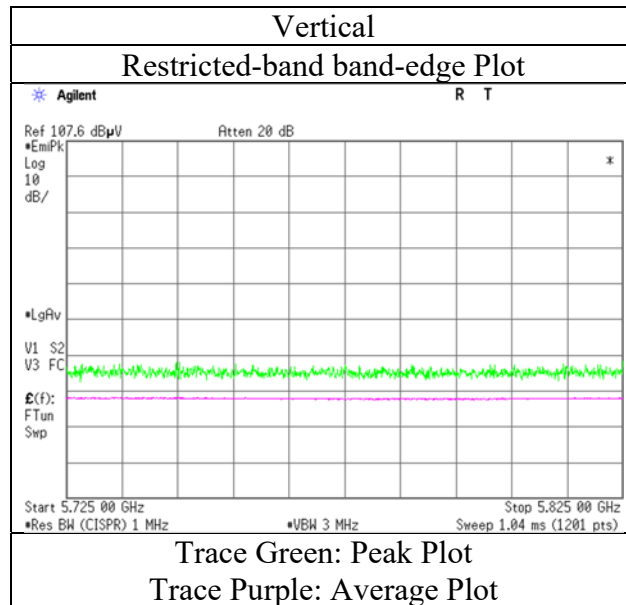
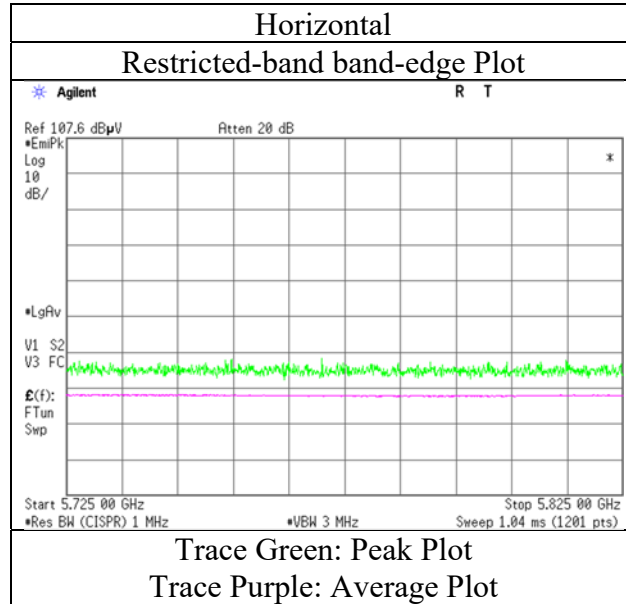
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5700 MHz (106-tone RU)

RU Index 54



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5700 MHz (242-tone RU)

RU Index 61

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5725.000 | PK | 56.0 | 32.0 | 6.2 | 31.8 | - | 62.4 | 68.2 | 5.8 | |
| Vert. | 5725.000 | PK | 56.9 | 32.0 | 6.2 | 31.8 | - | 63.2 | 68.2 | 5.0 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

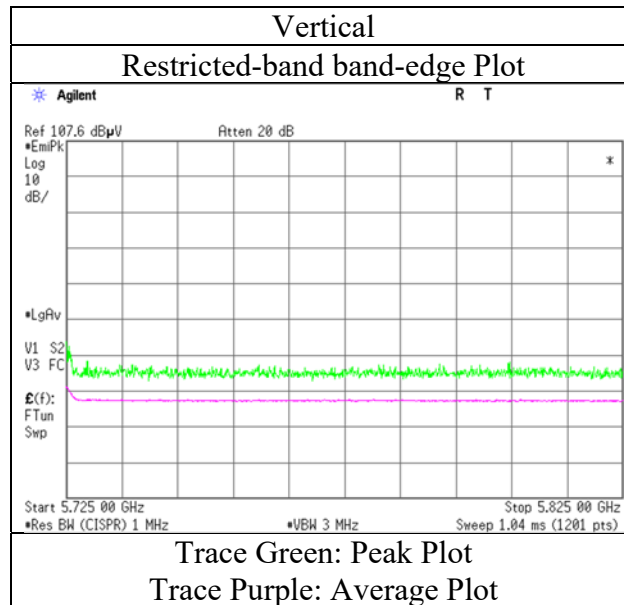
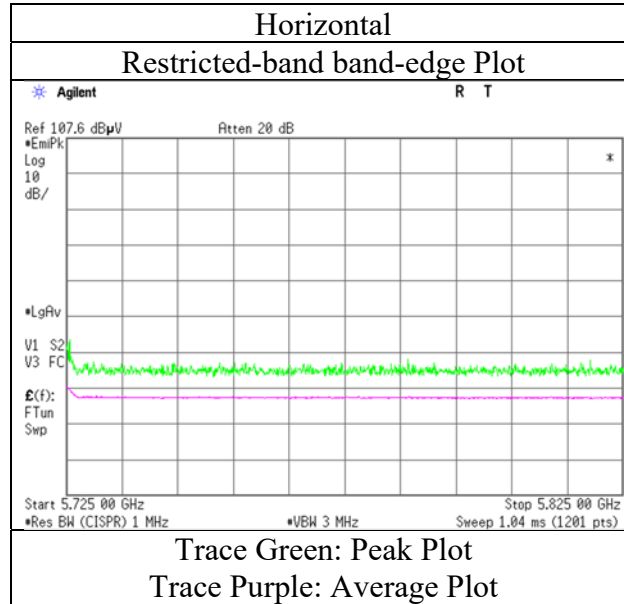
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date April 6, 2020
 Temperature / Humidity 20 deg. C / 27 % RH
 Engineer Yuta Moriya
 (1 GHz - 10 GHz)
 Mode Tx 11ax-20 5700 MHz (242-tone RU)

RU Index 61



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5745 MHz (26-tone RU)

RU Index 0

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5650.000 | PK | 40.3 | 31.8 | 6.1 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Hori. | 5700.000 | PK | 40.3 | 31.9 | 6.1 | 31.9 | - | 46.4 | 105.2 | 58.8 | |
| Hori. | 5720.000 | PK | 40.4 | 32.0 | 6.1 | 31.9 | - | 46.6 | 110.8 | 64.2 | |
| Hori. | 5725.000 | PK | 40.8 | 32.0 | 6.1 | 31.9 | - | 46.9 | 122.2 | 75.3 | |
| Vert. | 5650.000 | PK | 40.2 | 31.8 | 6.1 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Vert. | 5700.000 | PK | 40.3 | 31.9 | 6.1 | 31.9 | - | 46.4 | 105.2 | 58.8 | |
| Vert. | 5720.000 | PK | 40.5 | 32.0 | 6.1 | 31.9 | - | 46.7 | 110.8 | 64.2 | |
| Vert. | 5725.000 | PK | 40.8 | 32.0 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

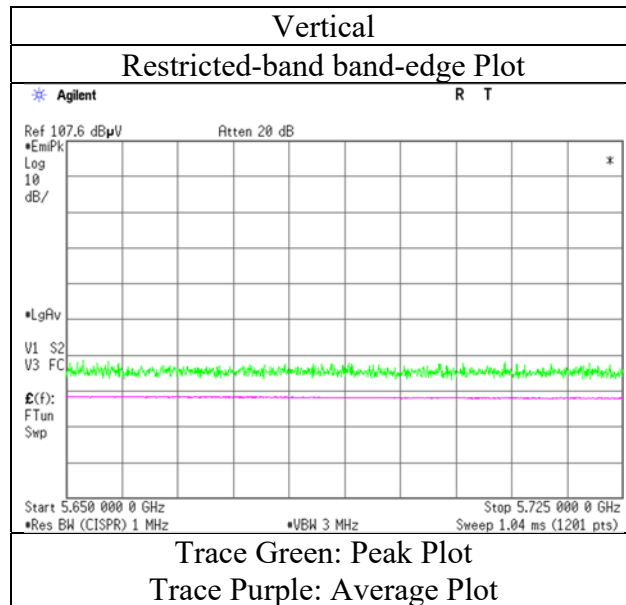
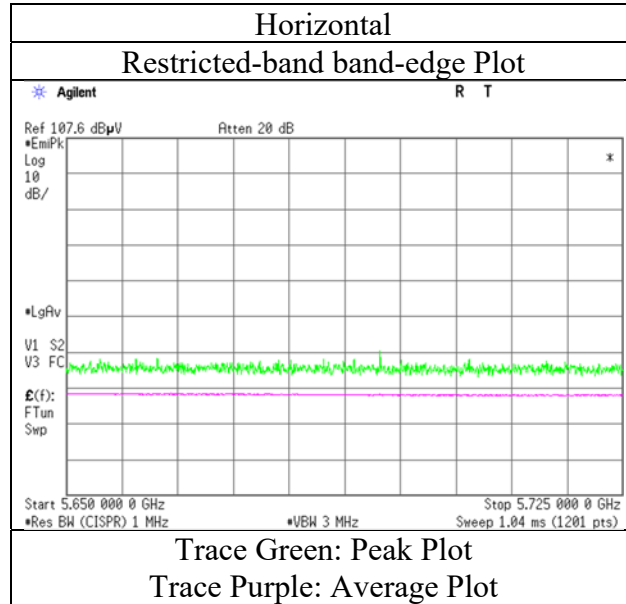
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 23 deg. C / 31 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5745 MHz (26-tone RU)

RU Index 0



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

Ise EMC Lab.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5745 MHz (52-tone RU)

RU Index 37

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5650.000 | PK | 40.3 | 31.8 | 6.1 | 31.9 | - | 46.3 | 68.2 | 21.9 | |
| Hori. | 5700.000 | PK | 40.4 | 31.9 | 6.1 | 31.9 | - | 46.5 | 105.2 | 58.7 | |
| Hori. | 5720.000 | PK | 40.5 | 32.0 | 6.1 | 31.9 | - | 46.6 | 110.8 | 64.2 | |
| Hori. | 5725.000 | PK | 40.8 | 32.0 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |
| Vert. | 5650.000 | PK | 40.3 | 31.8 | 6.1 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Vert. | 5700.000 | PK | 40.3 | 31.9 | 6.1 | 31.9 | - | 46.4 | 105.2 | 58.8 | |
| Vert. | 5720.000 | PK | 40.6 | 32.0 | 6.1 | 31.9 | - | 46.7 | 110.8 | 64.1 | |
| Vert. | 5725.000 | PK | 40.8 | 32.0 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

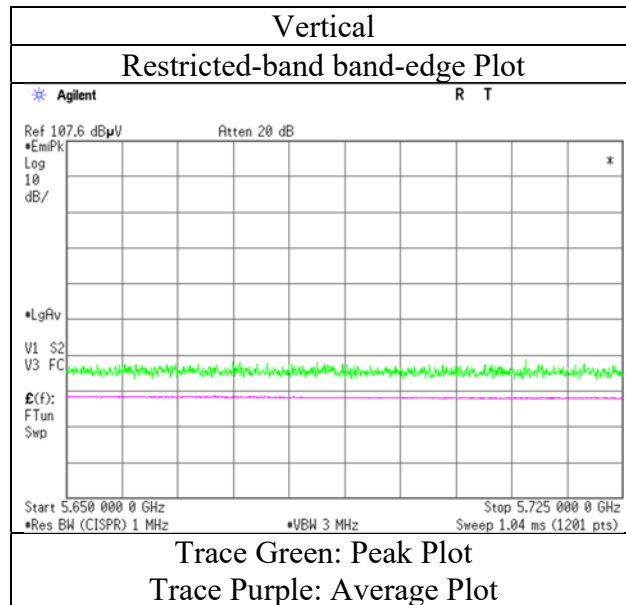
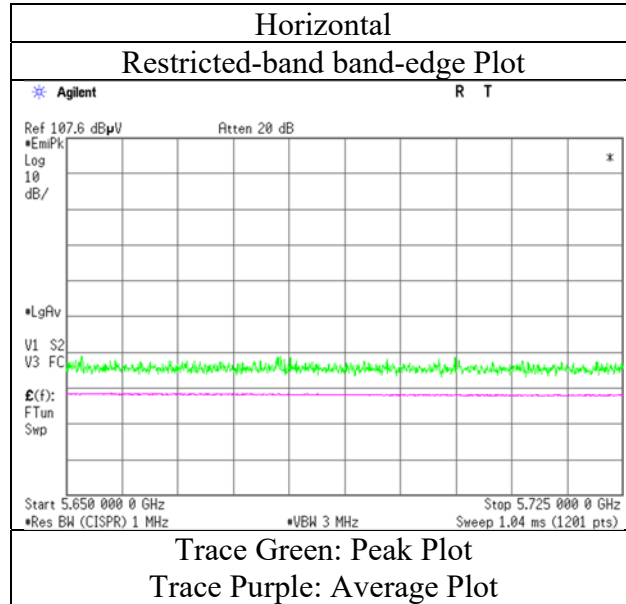
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date February 27, 2020
 Temperature / Humidity 22 deg. C / 36 % RH
 Engineer Yuta Moriya
 (1 GHz - 10 GHz)
 Mode Tx 11ax-20 5745 MHz (52-tone RU)

RU Index 37



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5745 MHz (106-tone RU)

RU Index 53

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5650.000 | PK | 40.3 | 31.8 | 6.1 | 31.9 | - | 46.3 | 68.2 | 21.9 | |
| Hori. | 5700.000 | PK | 40.7 | 31.9 | 6.1 | 31.9 | - | 46.8 | 105.2 | 58.5 | |
| Hori. | 5720.000 | PK | 40.4 | 32.0 | 6.1 | 31.9 | - | 46.5 | 110.8 | 64.3 | |
| Hori. | 5725.000 | PK | 40.8 | 32.0 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |
| Vert. | 5650.000 | PK | 40.3 | 31.8 | 6.1 | 31.9 | - | 46.2 | 68.2 | 22.0 | |
| Vert. | 5700.000 | PK | 40.4 | 31.9 | 6.1 | 31.9 | - | 46.5 | 105.2 | 58.7 | |
| Vert. | 5720.000 | PK | 40.5 | 32.0 | 6.1 | 31.9 | - | 46.7 | 110.8 | 64.1 | |
| Vert. | 5725.000 | PK | 40.9 | 32.0 | 6.1 | 31.9 | - | 47.1 | 122.2 | 75.1 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

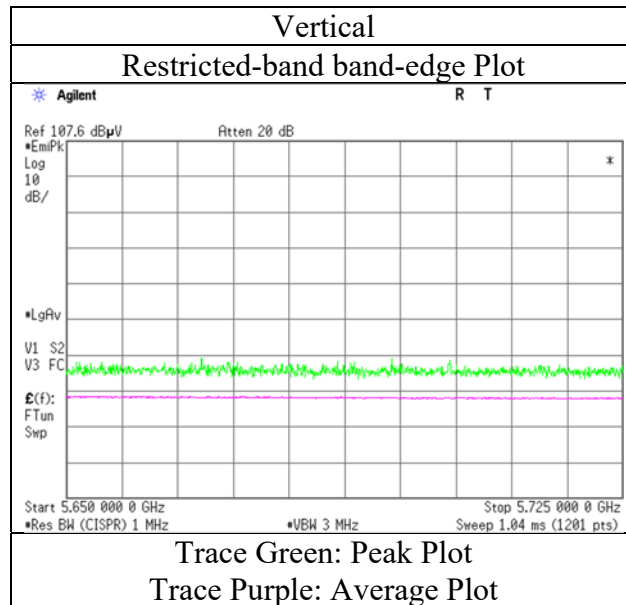
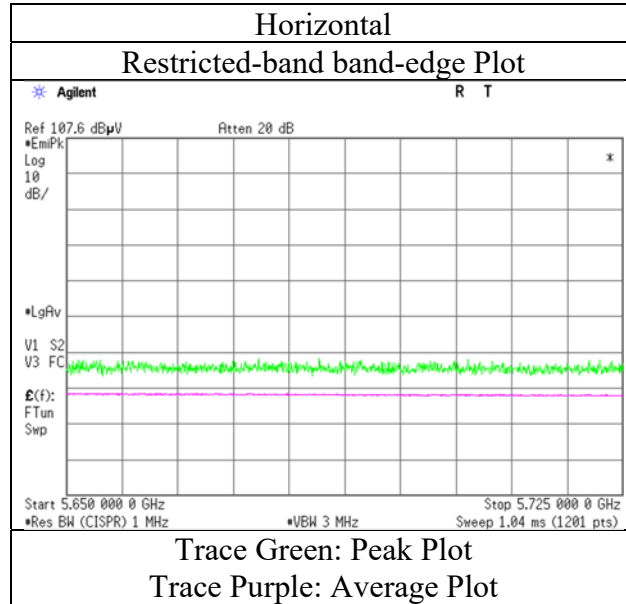
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date February 27, 2020
 Temperature / Humidity 22 deg. C / 36 % RH
 Engineer Yuta Moriya
 (1 GHz - 10 GHz)
 Mode Tx 11ax-20 5745 MHz (106-tone RU)

RU Index 53



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5745 MHz (242-tone RU)

RU Index 61

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5650.000 | PK | 39.8 | 31.8 | 6.2 | 31.8 | - | 45.9 | 68.2 | 22.3 | |
| Hori. | 5700.000 | PK | 40.7 | 31.9 | 6.2 | 31.8 | - | 47.0 | 105.2 | 58.3 | |
| Hori. | 5720.000 | PK | 55.6 | 32.0 | 6.2 | 31.8 | - | 62.0 | 110.8 | 48.8 | |
| Hori. | 5725.000 | PK | 61.4 | 32.0 | 6.2 | 31.8 | - | 67.8 | 122.2 | 54.5 | |
| Vert. | 5650.000 | PK | 40.3 | 31.8 | 6.2 | 31.8 | - | 46.4 | 68.2 | 21.8 | |
| Vert. | 5700.000 | PK | 40.5 | 31.9 | 6.2 | 31.8 | - | 46.8 | 105.2 | 58.4 | |
| Vert. | 5720.000 | PK | 53.4 | 32.0 | 6.2 | 31.8 | - | 59.7 | 110.8 | 51.1 | |
| Vert. | 5725.000 | PK | 62.3 | 32.0 | 6.2 | 31.8 | - | 68.7 | 122.2 | 53.5 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

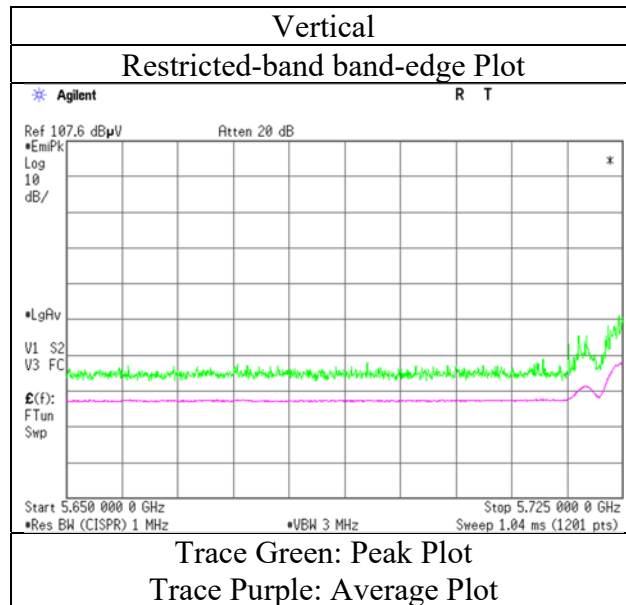
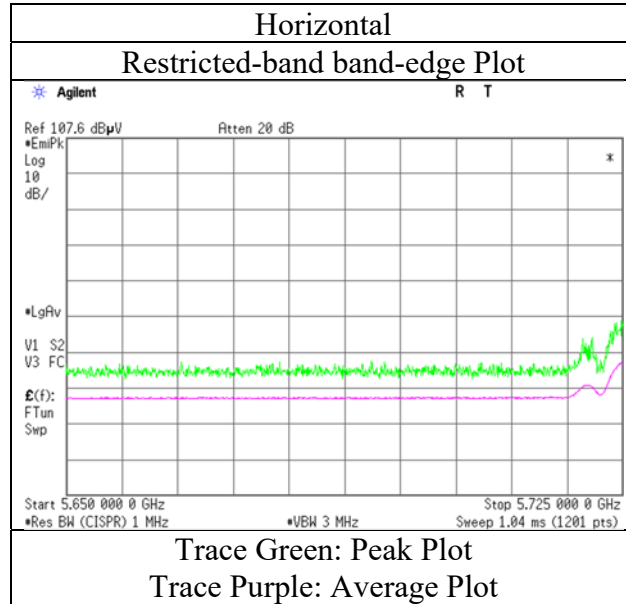
Distance

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
 (PIFA Antenna)

Report No. 13170804H
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
 Date April 6, 2020
 Temperature / Humidity 20 deg. C / 27 % RH
 Engineer Yuta Moriya
 (1 GHz - 10 GHz)
 Mode Tx 11ax-20 5745 MHz (242-tone RU)

RU Index 61



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (26-tone RU)

RU Index 8

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5850.000 | PK | 40.5 | 32.2 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |
| Hori. | 5855.000 | PK | 40.5 | 32.2 | 6.1 | 31.9 | - | 46.9 | 110.8 | 63.9 | |
| Hori. | 5875.000 | PK | 40.4 | 32.3 | 6.2 | 31.9 | - | 46.8 | 105.2 | 58.4 | |
| Hori. | 5925.000 | PK | 40.2 | 32.3 | 6.2 | 31.9 | - | 46.7 | 68.2 | 21.5 | |
| Vert. | 5850.000 | PK | 40.5 | 32.2 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |
| Vert. | 5855.000 | PK | 40.4 | 32.2 | 6.1 | 31.9 | - | 46.9 | 110.8 | 63.9 | |
| Vert. | 5875.000 | PK | 40.3 | 32.3 | 6.2 | 31.9 | - | 46.8 | 105.2 | 58.4 | |
| Vert. | 5925.000 | PK | 40.3 | 32.3 | 6.2 | 31.9 | - | 46.8 | 68.2 | 21.4 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

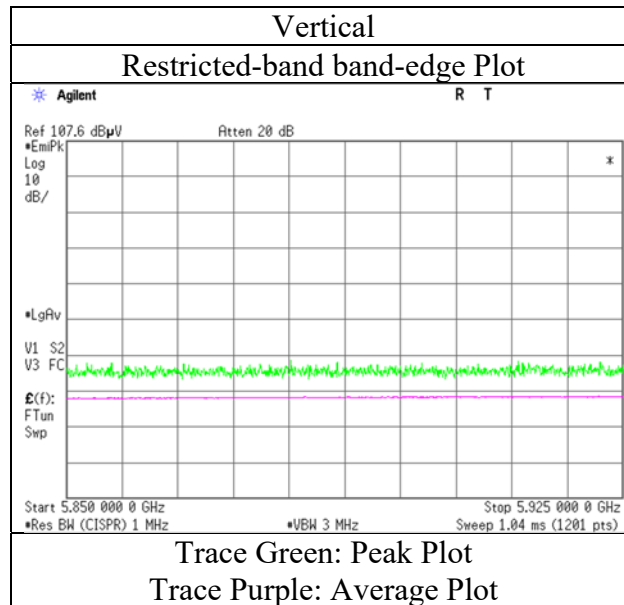
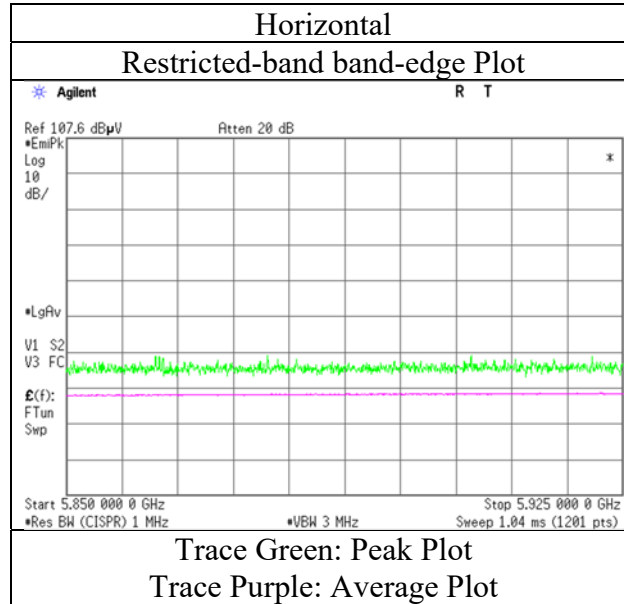
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (26-tone RU)

RU Index 8



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (52-tone RU)

RU Index 40

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5850.000 | PK | 40.6 | 32.2 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |
| Hori. | 5855.000 | PK | 40.5 | 32.2 | 6.1 | 31.9 | - | 47.0 | 110.8 | 63.9 | |
| Hori. | 5875.000 | PK | 40.4 | 32.3 | 6.2 | 31.9 | - | 46.9 | 105.2 | 58.4 | |
| Hori. | 5925.000 | PK | 40.2 | 32.3 | 6.2 | 31.9 | - | 46.7 | 68.2 | 21.5 | |
| Vert. | 5850.000 | PK | 40.5 | 32.2 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |
| Vert. | 5855.000 | PK | 40.4 | 32.2 | 6.1 | 31.9 | - | 46.9 | 110.8 | 63.9 | |
| Vert. | 5875.000 | PK | 40.3 | 32.3 | 6.2 | 31.9 | - | 46.8 | 105.2 | 58.4 | |
| Vert. | 5925.000 | PK | 40.3 | 32.3 | 6.2 | 31.9 | - | 46.8 | 68.2 | 21.4 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

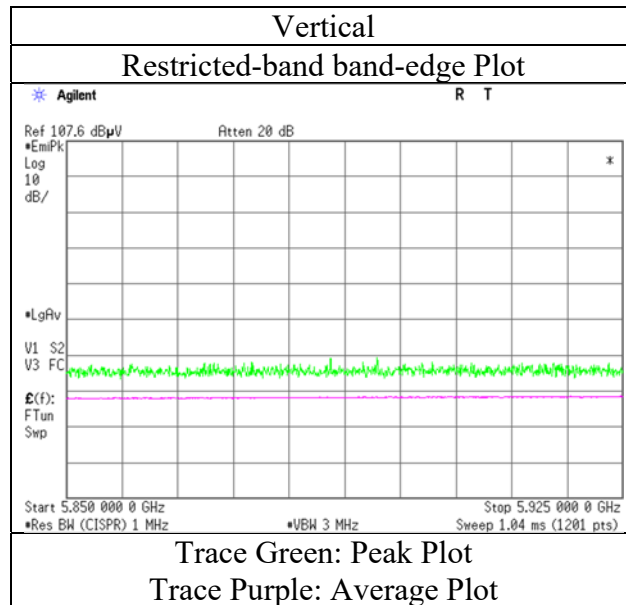
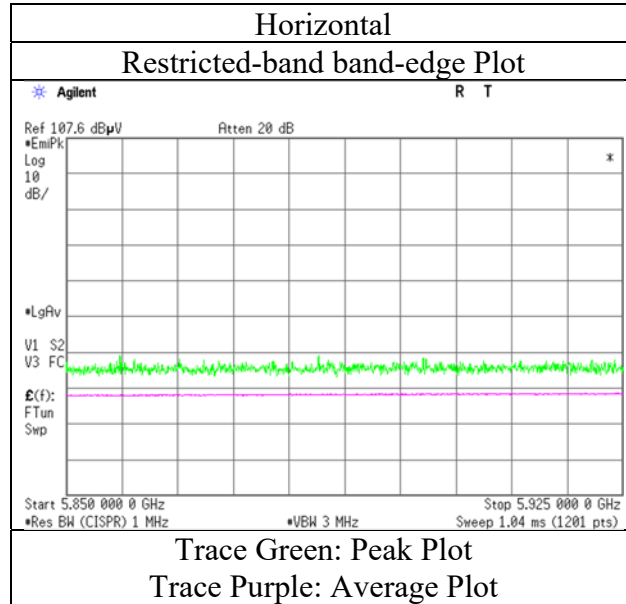
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (52-tone RU)

RU Index 40



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (106-tone RU)

RU Index 54

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5850.000 | PK | 40.6 | 32.2 | 6.1 | 31.9 | - | 47.1 | 122.2 | 75.1 | |
| Hori. | 5855.000 | PK | 40.6 | 32.2 | 6.1 | 31.9 | - | 47.0 | 110.8 | 63.8 | |
| Hori. | 5875.000 | PK | 40.6 | 32.3 | 6.2 | 31.9 | - | 47.1 | 105.2 | 58.2 | |
| Hori. | 5925.000 | PK | 40.5 | 32.3 | 6.2 | 31.9 | - | 47.0 | 68.2 | 21.2 | |
| Vert. | 5850.000 | PK | 40.5 | 32.2 | 6.1 | 31.9 | - | 47.0 | 122.2 | 75.2 | |
| Vert. | 5855.000 | PK | 40.5 | 32.2 | 6.1 | 31.9 | - | 47.0 | 110.8 | 63.9 | |
| Vert. | 5875.000 | PK | 40.4 | 32.3 | 6.2 | 31.9 | - | 46.9 | 105.2 | 58.4 | |
| Vert. | 5925.000 | PK | 40.3 | 32.3 | 6.2 | 31.9 | - | 46.8 | 68.2 | 21.4 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

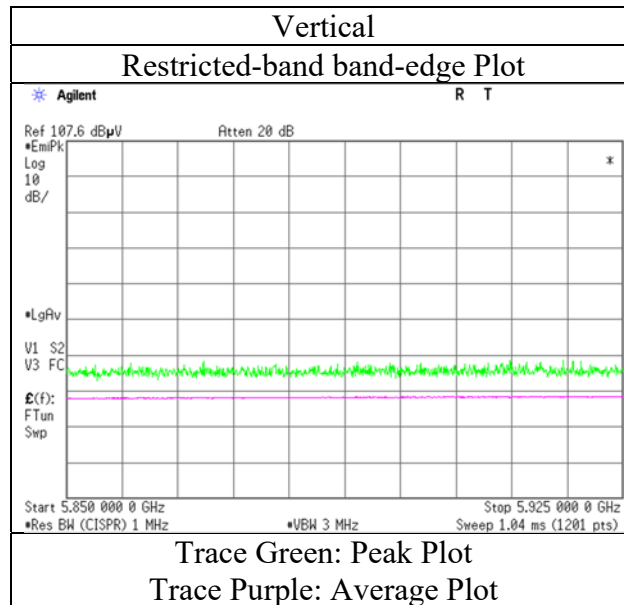
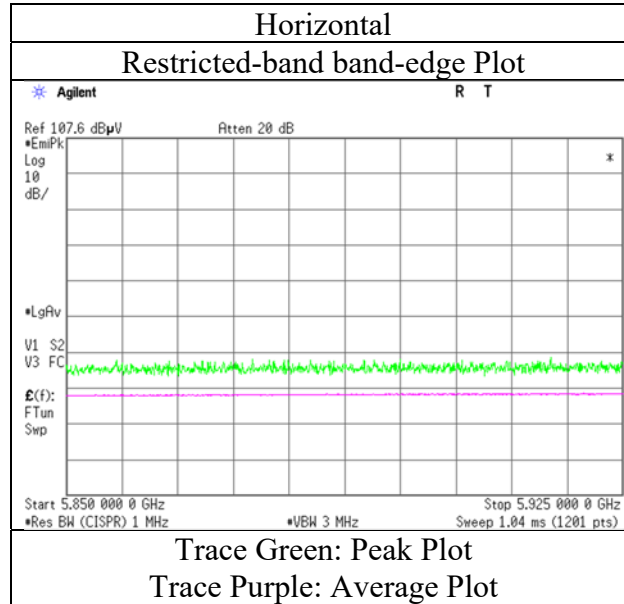
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 27, 2020
Temperature / Humidity 22 deg. C / 36 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (106-tone RU)

RU Index 54



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (242-tone RU)

RU Index 61

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5850.000 | PK | 52.3 | 32.2 | 6.2 | 31.8 | - | 58.9 | 122.2 | 63.3 | |
| Hori. | 5855.000 | PK | 47.0 | 32.2 | 6.2 | 31.8 | - | 53.6 | 110.8 | 57.2 | |
| Hori. | 5875.000 | PK | 40.1 | 32.3 | 6.3 | 31.8 | - | 46.7 | 105.2 | 58.5 | |
| Hori. | 5925.000 | PK | 40.1 | 32.3 | 6.3 | 31.9 | - | 46.8 | 68.2 | 21.4 | |
| Vert. | 5850.000 | PK | 54.9 | 32.2 | 6.2 | 31.8 | - | 61.6 | 122.2 | 60.6 | |
| Vert. | 5855.000 | PK | 50.0 | 32.2 | 6.2 | 31.8 | - | 56.7 | 110.8 | 54.1 | |
| Vert. | 5875.000 | PK | 41.2 | 32.3 | 6.3 | 31.8 | - | 47.9 | 105.2 | 57.3 | |
| Vert. | 5925.000 | PK | 40.8 | 32.3 | 6.3 | 31.9 | - | 47.5 | 68.2 | 20.7 | |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

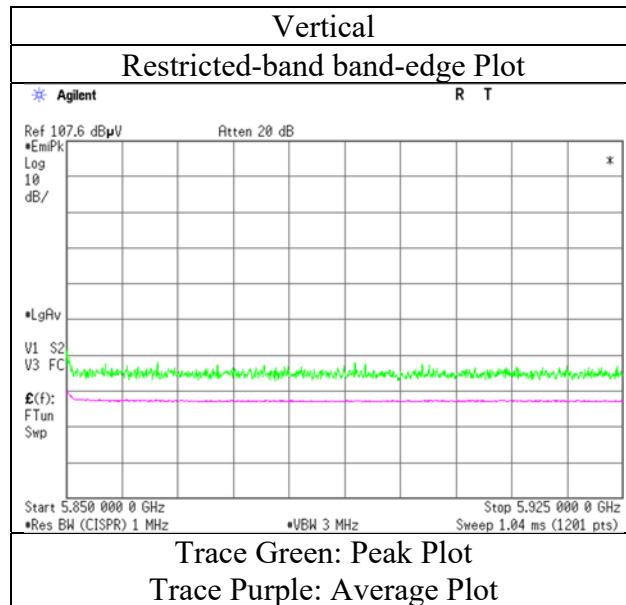
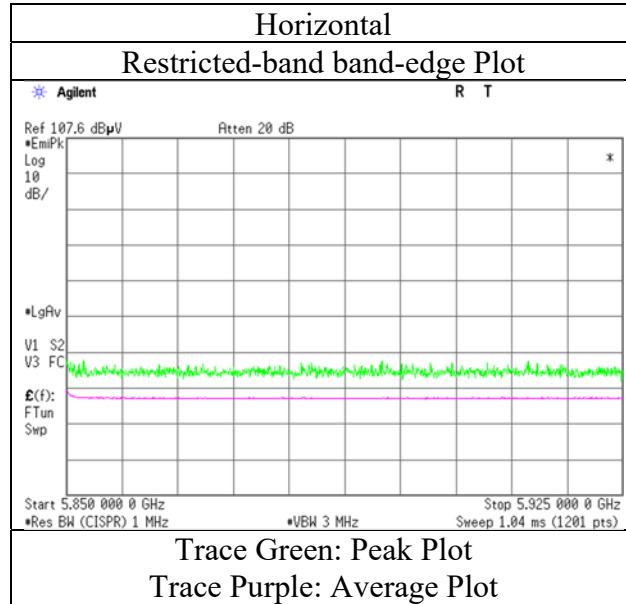
Distance factor:

1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 6, 2020
Temperature / Humidity 20 deg. C / 27 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-20 5825 MHz (242-tone RU)

RU Index 61



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (26-tone RU)

RU Index 0

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 40.4 | 31.7 | 5.9 | 31.8 | - | 46.2 | 73.9 | 27.7 | |
| Hori. | 5150.000 | AV | 32.1 | 31.7 | 5.9 | 31.8 | 0.2 | 38.1 | 53.9 | 15.8 | *1) |
| Vert. | 5150.000 | PK | 40.5 | 31.7 | 5.9 | 31.8 | - | 46.3 | 73.9 | 27.6 | |
| Vert. | 5150.000 | AV | 32.2 | 31.7 | 5.9 | 31.8 | 0.2 | 38.2 | 53.9 | 15.7 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

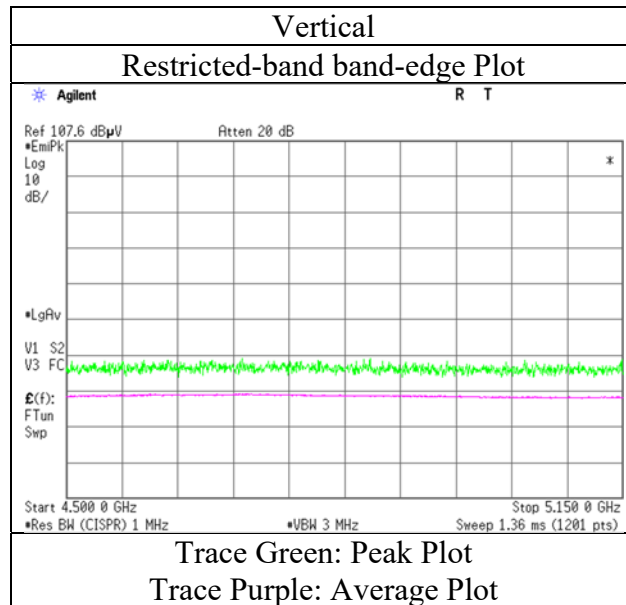
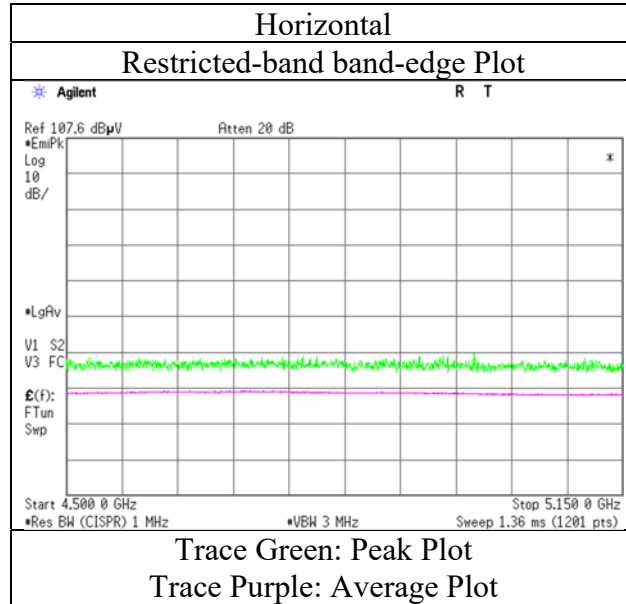
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (26-tone RU)

RU Index 0



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (52-tone RU)

RU Index 37

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|--------------------|-------------------|----------------|--------|
| Hori. | 5150.000 | PK | 40.4 | 31.7 | 5.9 | 31.8 | - | 46.2 | 73.9 | 27.7 | |
| Hori. | 5150.000 | AV | 32.2 | 31.7 | 5.9 | 31.8 | 0.2 | 38.2 | 53.9 | 15.7 | *1) |
| Vert. | 5150.000 | PK | 40.7 | 31.7 | 5.9 | 31.8 | - | 46.5 | 73.9 | 27.4 | |
| Vert. | 5150.000 | AV | 32.2 | 31.7 | 5.9 | 31.8 | 0.2 | 38.2 | 53.9 | 15.7 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission (Leakage Power)

UL Japan, Inc.

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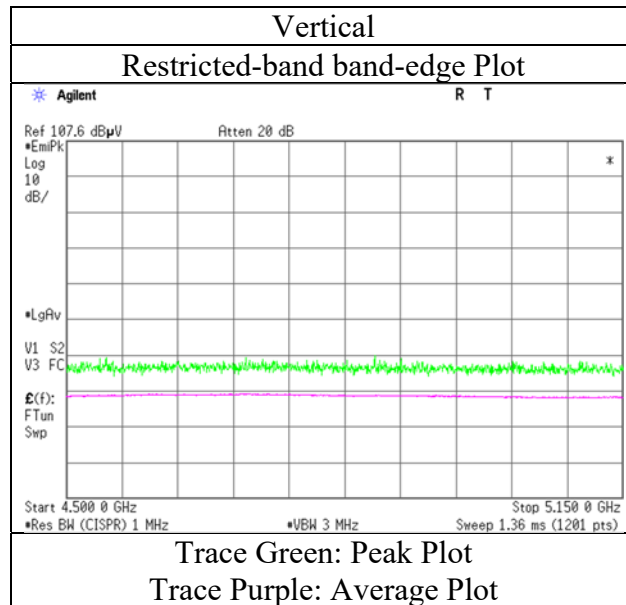
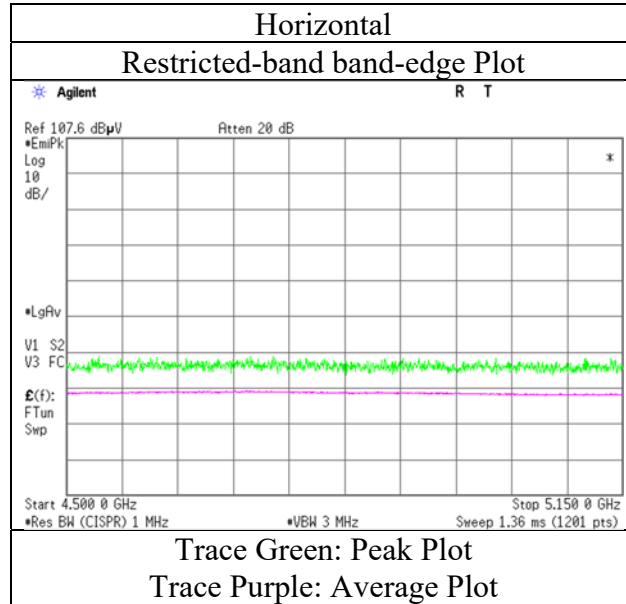
Telephone : +81 596 24 8999

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (52-tone RU)

RU Index 37



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (106-tone RU)

RU Index 53

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 40.4 | 31.7 | 5.9 | 31.8 | - | 46.2 | 73.9 | 27.8 | |
| Hori. | 5150.000 | AV | 32.3 | 31.7 | 5.9 | 31.8 | 0.2 | 38.4 | 53.9 | 15.6 | *1) |
| Vert. | 5150.000 | PK | 40.7 | 31.7 | 5.9 | 31.8 | - | 46.5 | 73.9 | 27.4 | |
| Vert. | 5150.000 | AV | 32.6 | 31.7 | 5.9 | 31.8 | 0.2 | 38.6 | 53.9 | 15.3 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

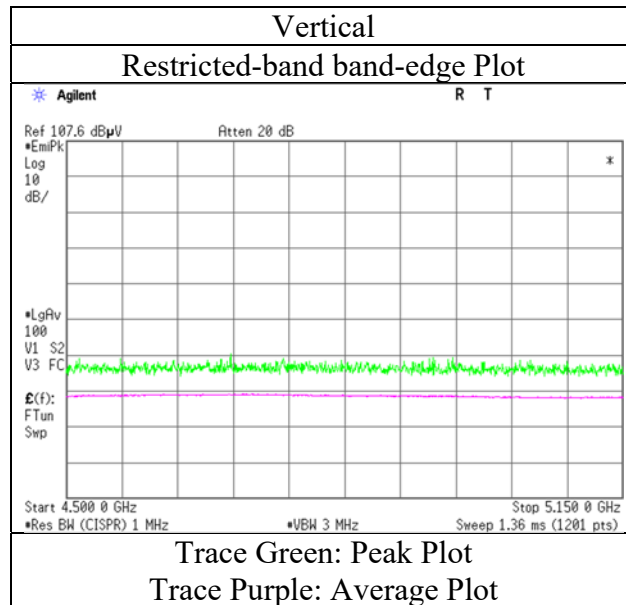
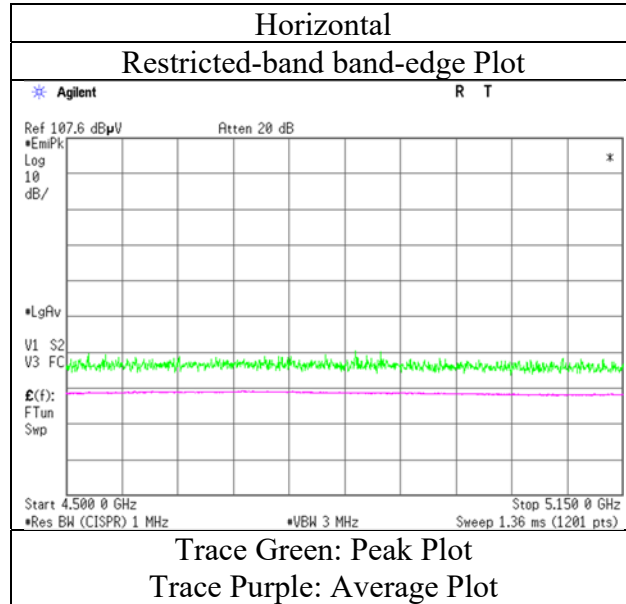
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (106-tone RU)

RU Index 53



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

UL Japan, Inc.

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Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (242-tone RU)

RU Index 61

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 40.8 | 31.7 | 5.9 | 31.8 | - | 46.6 | 73.9 | 27.3 | |
| Hori. | 5150.000 | AV | 32.5 | 31.7 | 5.9 | 31.8 | 0.2 | 38.5 | 53.9 | 15.4 | *1) |
| Vert. | 5150.000 | PK | 40.9 | 31.7 | 5.9 | 31.8 | - | 46.7 | 73.9 | 27.2 | |
| Vert. | 5150.000 | AV | 32.7 | 31.7 | 5.9 | 31.8 | 0.2 | 38.7 | 53.9 | 15.2 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

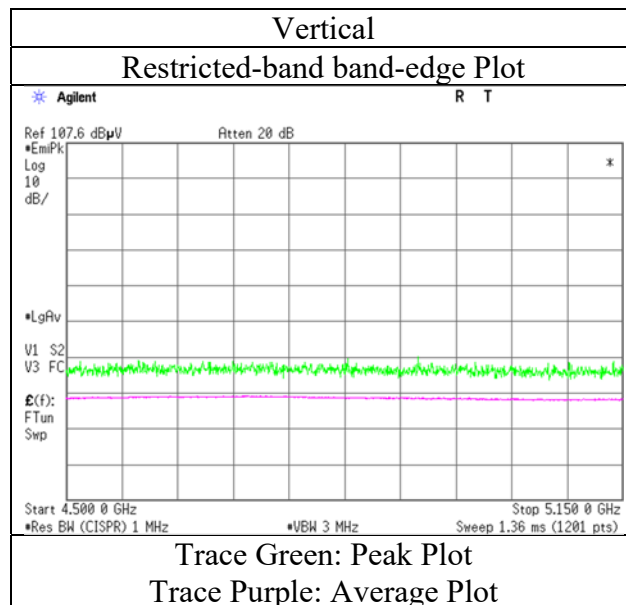
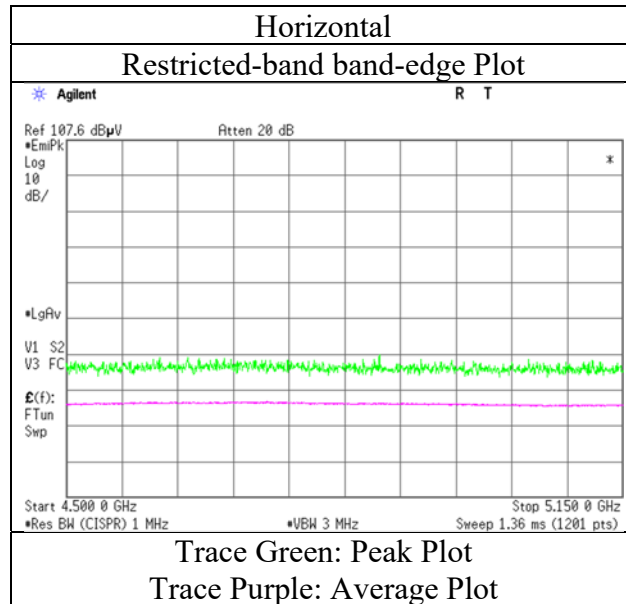
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (242-tone RU)

RU Index 61



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 7, 2020
Temperature / Humidity 21 deg. C / 25 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (484-tone RU)

RU Index 65

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5150.000 | PK | 51.6 | 31.7 | 6.0 | 31.6 | - | 57.7 | 73.9 | 16.2 | |
| Hori. | 5150.000 | AV | 39.4 | 31.7 | 6.0 | 31.6 | 0.3 | 45.7 | 53.9 | 8.2 | *1) |
| Vert. | 5150.000 | PK | 50.6 | 31.7 | 6.0 | 31.6 | - | 56.6 | 73.9 | 17.3 | |
| Vert. | 5150.000 | AV | 40.2 | 31.7 | 6.0 | 31.6 | 0.3 | 46.5 | 53.9 | 7.5 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

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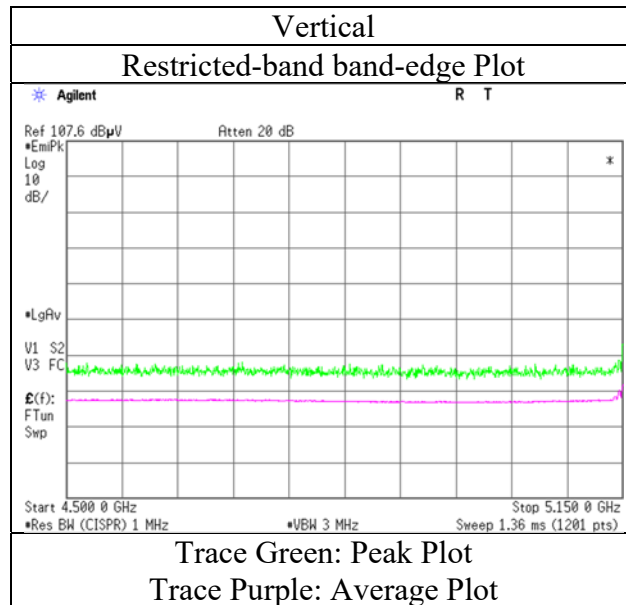
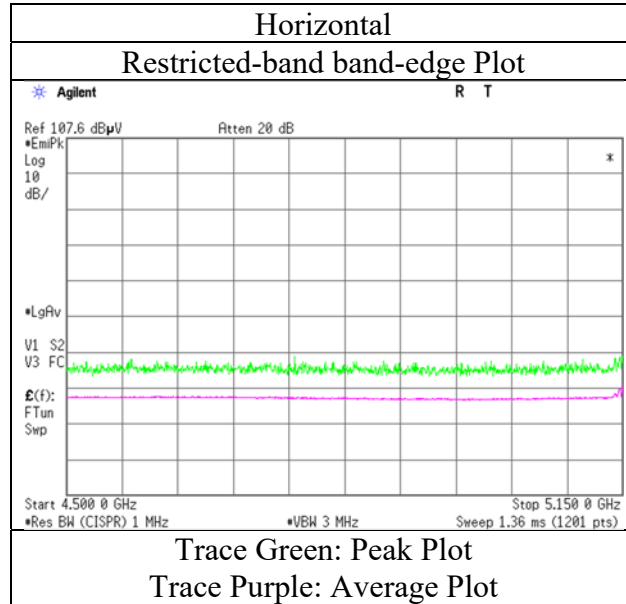
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date April 7, 2020
Temperature / Humidity 21 deg. C / 25 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5190 MHz (484-tone RU)

RU Index 65



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions. Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5310 MHz (26-tone RU)

RU Index 17

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5350.000 | PK | 40.7 | 31.5 | 6.0 | 31.8 | - | 46.3 | 73.9 | 27.6 | |
| Hori. | 5350.000 | AV | 30.6 | 31.5 | 6.0 | 31.8 | 2.3 | 38.5 | 53.9 | 15.4 | *1) |
| Vert. | 5350.000 | PK | 40.7 | 31.5 | 6.0 | 31.8 | - | 46.2 | 73.9 | 27.7 | |
| Vert. | 5350.000 | AV | 30.7 | 31.5 | 6.0 | 31.8 | 2.3 | 38.6 | 53.9 | 15.3 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

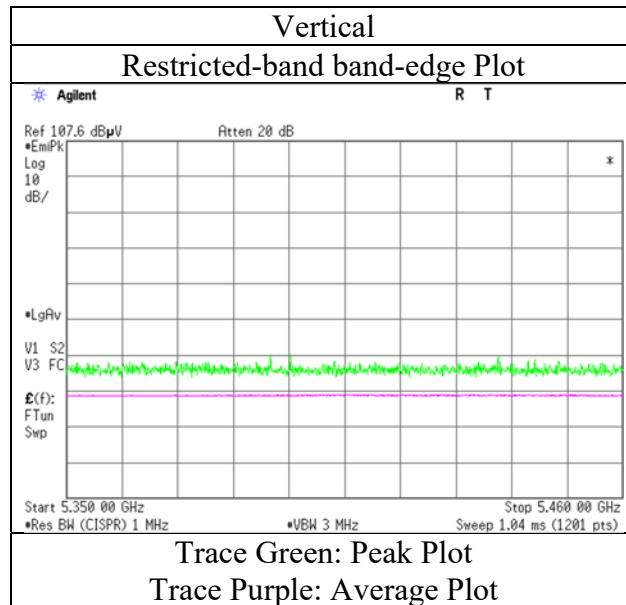
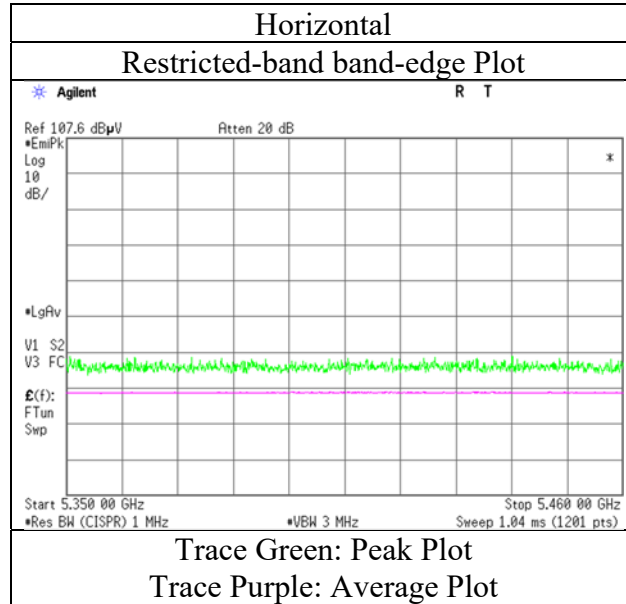
Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5310 MHz (26-tone RU)

RU Index 17



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(PIFA Antenna)

Report No. 13170804H
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date February 21, 2020
Temperature / Humidity 23 deg. C / 28 % RH
Engineer Yuta Moriya
(1 GHz - 10 GHz)
Mode Tx 11ax-40 5310 MHz (52-tone RU)

RU Index 44

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|-----------------|----------------|-------------|--------|
| Hori. | 5350.000 | PK | 41.0 | 31.5 | 6.0 | 31.8 | - | 46.6 | 73.9 | 27.3 | |
| Hori. | 5350.000 | AV | 30.7 | 31.5 | 6.0 | 31.8 | 2.3 | 38.5 | 53.9 | 15.4 | *1) |
| Vert. | 5350.000 | PK | 40.7 | 31.5 | 6.0 | 31.8 | - | 46.3 | 73.9 | 27.6 | |
| Vert. | 5350.000 | AV | 30.9 | 31.5 | 6.0 | 31.8 | 2.3 | 38.8 | 53.9 | 15.1 | *1) |

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

*1) Not Out of Band emission(Leakage Power)