

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date May 27, 2024 June 3, 2024  
Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 64 %RH  
Engineer Yuta Shiba Makoto Hosaka  
(1 GHz - 10 GHz) (10 GHz - 18 GHz)  
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 5955 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 11910.000       | PK       | 46.05          | 38.54           | -25.71    | -         | -9.54                | 49.34           | 73.9           | 24.5        | 150         | 0            | Floor Noise |
| Hori.    | 11910.000       | AV       | 34.43          | 38.54           | -25.71    | -         | -9.54                | 37.72           | 53.9           | 16.1        | 150         | 0            | Floor Noise |
| Vert.    | 11910.000       | PK       | 47.22          | 38.54           | -25.71    | -         | -9.54                | 50.51           | 73.9           | 23.3        | 150         | 0            | Floor Noise |
| Vert.    | 11910.000       | AV       | 34.15          | 38.54           | -25.71    | -         | -9.54                | 37.44           | 53.9           | 16.4        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 47.45          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.02           | -38.21              | -7.0        | 31.2        | 161         | 342          | -      |
| Hori.    | 5925.000        | AV       | 35.58          | 32.46           | -24.99    | -         | 0.22             | 2.10                 | 45.37           | -49.86              | -27.0       | 22.8        | 161         | 342          | -      |
| Vert.    | 5925.000        | PK       | 46.06          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.63           | -39.60              | -7.0        | 32.6        | 148         | 340          | -      |
| Vert.    | 5925.000        | AV       | 34.51          | 32.46           | -24.99    | -         | 0.22             | 2.10                 | 44.30           | -50.93              | -27.0       | 23.9        | 148         | 340          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP) [dBm] =  $10 * \log((10^{\wedge}(Electric\ Field\ Strength\ [dBuV/m] / 20)) * 10^{\wedge}(-6) * Distance : 3\ [m])^2 / 30 * 10^{\wedge}3)$

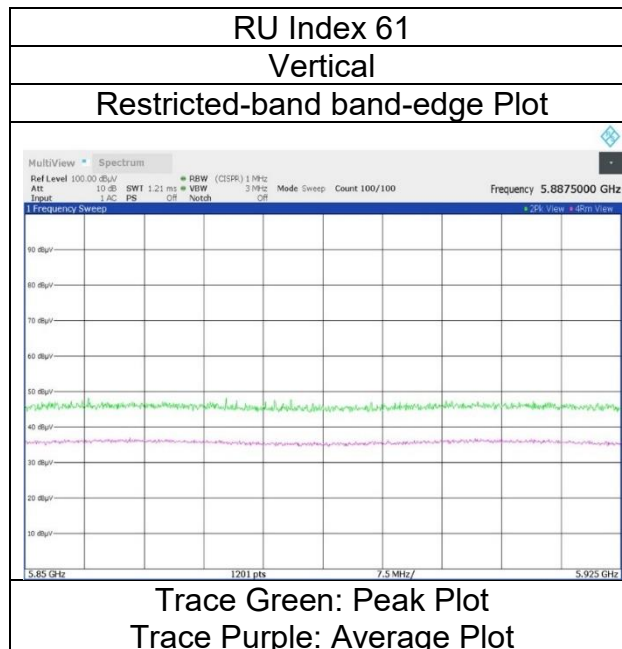
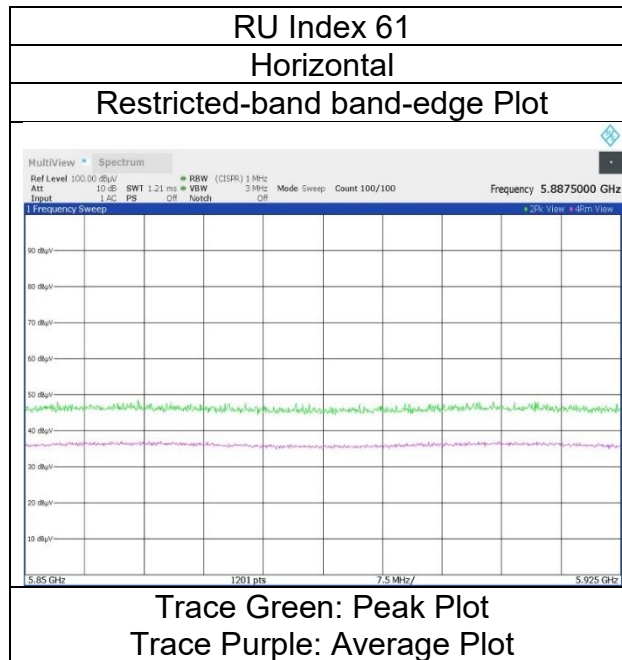
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

## Radiated Spurious Emission

Test place                      Shonan EMC Lab.  
Semi Anechoic Chamber    WAC1  
Date                            May 27, 2024  
Temperature / Humidity    23 deg. C, 65 %RH  
Engineer                      Yuta Shiba  
                                      (1 GHz -10 GHz)  
Mode                            Tx 11ax-20 (OFDMA) 242-tone RU, 5955 MHz (CDD)  
Antenna type                 5G CH0: monopole , 5G CH1: slot



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 3, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz - 10 GHz) (10 GHz - 18 GHz)  
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6415 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 12830.000       | PK       | 46.14          | 38.63           | -24.94    | -         | 0.00             | -9.54                | 50.29           | -44.94              | -7.0        | 37.9        | 150         | 0            | Floor Noise |
| Hori.    | 12830.000       | AV       | 34.10          | 38.63           | -24.94    | -         | 0.00             | -9.54                | 38.25           | -56.98              | -27.0       | 29.9        | 150         | 0            | Floor Noise |
| Vert.    | 12830.000       | PK       | 45.57          | 38.63           | -24.94    | -         | 0.00             | -9.54                | 49.72           | -45.51              | -7.0        | 38.5        | 150         | 0            | Floor Noise |
| Vert.    | 12830.000       | AV       | 33.57          | 38.63           | -24.94    | -         | 0.00             | -9.54                | 37.72           | -57.51              | -27.0       | 30.5        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 3, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz - 10 GHz) (10 GHz - 18 GHz)  
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6435 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

| (* PK: Peak, AV: Average, QP: Quasi-Peak) |                    |          |                   |                    |              |              |                     |                         |                    |                        |                |                |                |                 |             |  |
|-------------------------------------------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|-------------------------|--------------------|------------------------|----------------|----------------|----------------|-----------------|-------------|--|
| Polarity                                  | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty<br>Factor [dB] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Result (EIRP)<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark      |  |
| Hori.                                     | 12870.000          | PK       | 46.33             | 38.68              | -24.92       | -            | 0.00                | -9.54                   | 50.55              | -44.68                 | -7.0           | 37.6           | 150            | 0               | Floor Noise |  |
| Hori.                                     | 12870.000          | AV       | 34.22             | 38.68              | -24.92       | -            | 0.00                | -9.54                   | 38.44              | -56.79                 | -27.0          | 29.7           | 150            | 0               | Floor Noise |  |
| Vert.                                     | 12870.000          | PK       | 45.81             | 38.68              | -24.92       | -            | 0.00                | -9.54                   | 50.03              | -45.20                 | -7.0           | 38.2           | 150            | 0               | Floor Noise |  |
| Vert.                                     | 12870.000          | AV       | 33.63             | 38.68              | -24.92       | -            | 0.00                | -9.54                   | 37.85              | -57.38                 | -27.0          | 30.3           | 150            | 0               | Floor Noise |  |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{(-6)} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

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Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz - 10 GHz) (10 GHz - 18 GHz)  
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6515 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

| (* PK: Peak, AV: Average, QP: Quasi-Peak) |                    |          |                   |                    |              |              |                     |                         |                    |                        |                |                |                |                 |             |  |
|-------------------------------------------|--------------------|----------|-------------------|--------------------|--------------|--------------|---------------------|-------------------------|--------------------|------------------------|----------------|----------------|----------------|-----------------|-------------|--|
| Polarity                                  | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Duty<br>Factor [dB] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Result (EIRP)<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark      |  |
| Hori.                                     | 13030.000          | PK       | 46.48             | 38.84              | -24.86       | -            | 0.00                | -9.54                   | 50.92              | -44.31                 | -7.0           | 37.3           | 150            | 0               | Floor Noise |  |
| Hori.                                     | 13030.000          | AV       | 34.28             | 38.84              | -24.86       | -            | 0.00                | -9.54                   | 38.72              | -56.51                 | -27.0          | 29.5           | 150            | 0               | Floor Noise |  |
| Vert.                                     | 13030.000          | PK       | 47.17             | 38.84              | -24.86       | -            | 0.00                | -9.54                   | 51.61              | -43.62                 | -7.0           | 36.6           | 150            | 0               | Floor Noise |  |
| Vert.                                     | 13030.000          | AV       | 34.45             | 38.84              | -24.86       | -            | 0.00                | -9.54                   | 38.89              | -56.34                 | -27.0          | 29.3           | 150            | 0               | Floor Noise |  |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 \cdot 10^{-3}$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

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Date June 13, 2024 June 3, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 22 deg. C, 64 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz - 10 GHz) (10 GHz - 18 GHz)  
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6535 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

| (* PK: Peak, AV: Average, QP: Quasi-Peak) |                 |          |                |                 |           |           |                  |                      |                 |                     |             |             |             |              |             |  |
|-------------------------------------------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|--|
| Polarity                                  | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |  |
| Hori.                                     | 13070.000       | PK       | 46.49          | 38.86           | -24.83    | -         | 0.00             | -9.54                | 50.98           | -44.25              | -7.0        | 37.2        | 150         | 0            | Floor Noise |  |
| Hori.                                     | 13070.000       | AV       | 34.49          | 38.86           | -24.83    | -         | 0.00             | -9.54                | 38.98           | -56.25              | -27.0       | <b>29.2</b> | 150         | 0            | Floor Noise |  |
| Vert.                                     | 13070.000       | PK       | 46.32          | 38.86           | -24.83    | -         | 0.00             | -9.54                | 50.81           | -44.42              | -7.0        | 37.4        | 150         | 0            | Floor Noise |  |
| Vert.                                     | 13070.000       | AV       | 34.25          | 38.86           | -24.83    | -         | 0.00             | -9.54                | 38.74           | -56.49              | -27.0       | 29.4        | 150         | 0            | Floor Noise |  |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

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Mode Tx 11ax-20 (OFDMA) 242-tone RU, 6855 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13710.000       | PK       | 46.62          | 39.07           | -24.69    | -         | 0.00             | -9.54                | 51.46           | -43.77              | -7.0        | 36.7        | 150         | 0            | Floor Noise |
| Hori.    | 13710.000       | AV       | 34.51          | 39.07           | -24.69    | -         | 0.00             | -9.54                | 39.35           | -55.88              | -27.0       | 28.8        | 150         | 0            | Floor Noise |
| Vert.    | 13710.000       | PK       | 46.20          | 39.07           | -24.69    | -         | 0.00             | -9.54                | 51.04           | -44.19              | -7.0        | 37.1        | 150         | 0            | Floor Noise |
| Vert.    | 13710.000       | AV       | 34.87          | 39.07           | -24.69    | -         | 0.00             | -9.54                | 39.71           | -55.52              | -27.0       | 28.5        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

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### RU Index 61

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13790.000       | PK       | 46.12          | 39.08           | -24.71    | -         | 0.00             | -9.54                | 50.95           | -44.28              | -7.0        | 37.2        | 150         | 0            | Floor Noise |
| Hori.    | 13790.000       | AV       | 33.72          | 39.08           | -24.71    | -         | 0.00             | -9.54                | 38.55           | -56.68              | -27.0       | 29.6        | 150         | 0            | Floor Noise |
| Vert.    | 13790.000       | PK       | 45.90          | 39.08           | -24.71    | -         | 0.00             | -9.54                | 50.73           | -44.50              | -7.0        | 37.5        | 150         | 0            | Floor Noise |
| Vert.    | 13790.000       | AV       | 33.77          | 39.08           | -24.71    | -         | 0.00             | -9.54                | 38.60           | -56.63              | -27.0       | 29.6        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

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

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Semi Anechoic Chamber WAC1 WAC1  
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Temperature / Humidity 23 deg. C, 65 %RH 22 deg. C, 64 %RH  
Engineer Yuta Shiba Makoto Hosaka  
(1 GHz - 10 GHz) (10 GHz - 18 GHz)  
Mode Tx 11ax-20 (OFDMA) 242-tone RU, 7095 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 7125.000        | PK       | 47.21          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.26           | -33.97              | -7.0        | 26.9        | 147         | 351          | -           |
| Hori.    | 14190.000       | PK       | 46.16          | 39.08           | -24.64    | -         | 0.00             | -9.54                | 51.06           | -44.17              | -7.0        | 37.1        | 150         | 0            | Floor Noise |
| Hori.    | 7125.000        | AV       | 35.88          | 36.14           | -24.19    | -         | 0.22             | 2.10                 | 50.15           | -45.08              | -27.0       | <b>18.0</b> | 147         | 351          | -           |
| Hori.    | 14190.000       | AV       | 34.57          | 39.08           | -24.64    | -         | 0.00             | -9.54                | 39.47           | -55.76              | -27.0       | 28.7        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | PK       | 46.11          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.16           | -35.07              | -7.0        | 28.0        | 150         | 73           | -           |
| Vert.    | 14190.000       | PK       | 45.93          | 39.08           | -24.64    | -         | 0.00             | -9.54                | 50.83           | -44.40              | -7.0        | 37.4        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | AV       | 34.77          | 36.14           | -24.19    | -         | 0.22             | 2.10                 | 49.04           | -46.19              | -27.0       | 19.1        | 150         | 73           | -           |
| Vert.    | 14190.000       | AV       | 34.79          | 39.08           | -24.64    | -         | 0.00             | -9.54                | 39.69           | -55.54              | -27.0       | 28.5        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

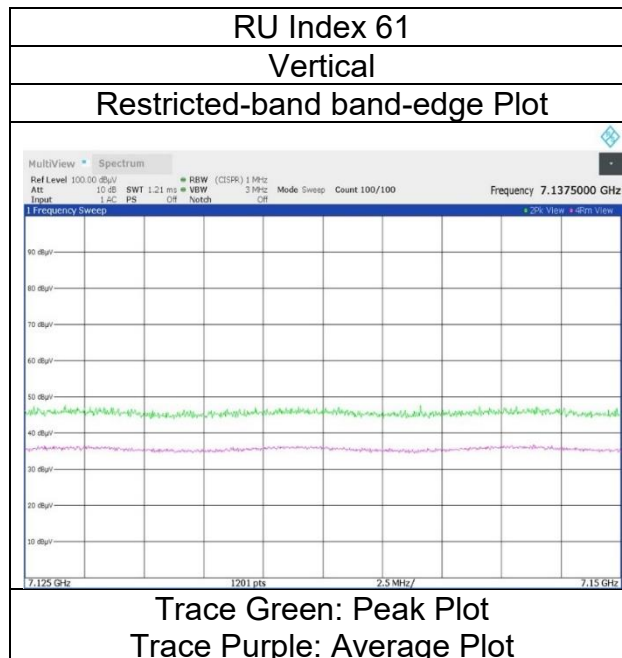
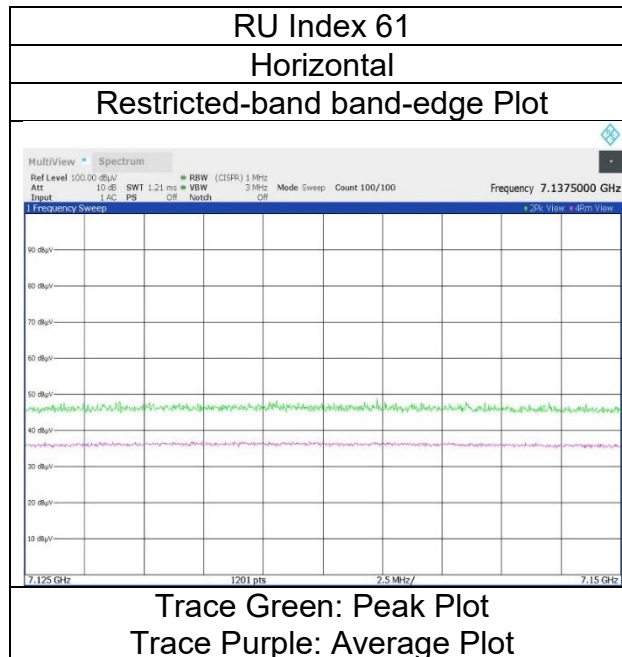
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

## Radiated Spurious Emission

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 27, 2024                                   |
| Temperature / Humidity | 23 deg. C, 65 %RH                              |
| Engineer               | Yuta Shiba                                     |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-20 (OFDMA) 242-tone RU, 7095 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 5965 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 0

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 48.02          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.59           | -37.64              | -7.0        | 30.6        | 133         | 343          | -      |
| Hori.    | 5925.000        | AV       | 35.70          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.27           | -49.96              | -27.0       | 22.9        | 133         | 343          | -      |
| Vert.    | 5925.000        | PK       | 45.80          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.37           | -39.86              | -7.0        | 32.8        | 150         | 339          | -      |
| Vert.    | 5925.000        | AV       | 34.83          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.40           | -50.83              | -27.0       | 23.8        | 150         | 339          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

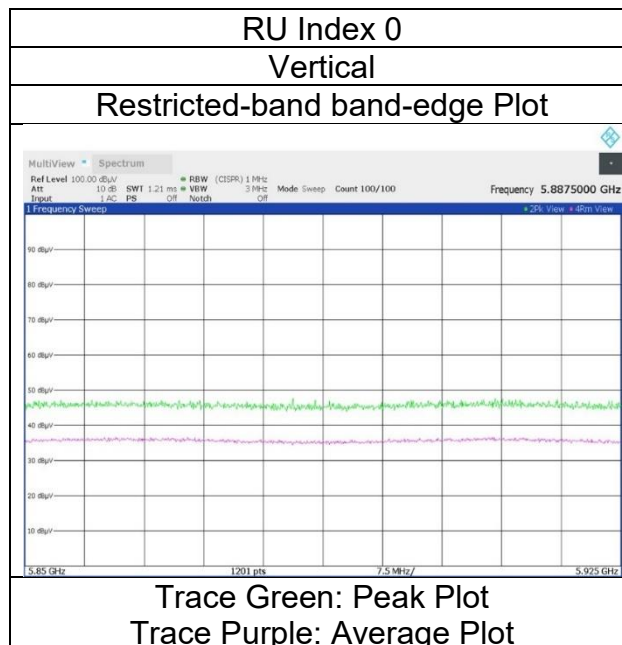
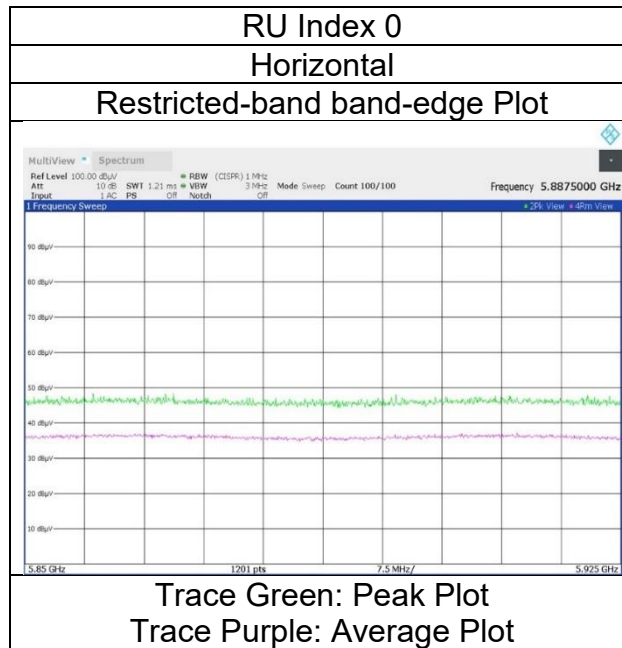
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

|                        |                                               |
|------------------------|-----------------------------------------------|
| Test place             | Shonan EMC Lab.                               |
| Semi Anechoic Chamber  | WAC1                                          |
| Date                   | May 27, 2024                                  |
| Temperature / Humidity | 23 deg. C, 65 %RH                             |
| Engineer               | Yuta Shiba                                    |
|                        | (1 GHz -10 GHz)                               |
| Mode                   | Tx 11ax-40 (OFDMA) 26-tone RU, 5965 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot               |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 26-tone RU, 7085 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 17

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 48.05          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 62.10           | -33.13              | -7.0        | 26.1        | 112         | 4            | -      |
| Hori.    | 7125.000        | AV       | 35.59          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.64           | -45.59              | -27.0       | <b>18.5</b> | 112         | 4            | -      |
| Vert.    | 7125.000        | PK       | 46.77          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.82           | -34.41              | -7.0        | 27.4        | 150         | 77           | -      |
| Vert.    | 7125.000        | AV       | 35.19          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.24           | -45.99              | -27.0       | 18.9        | 150         | 77           | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

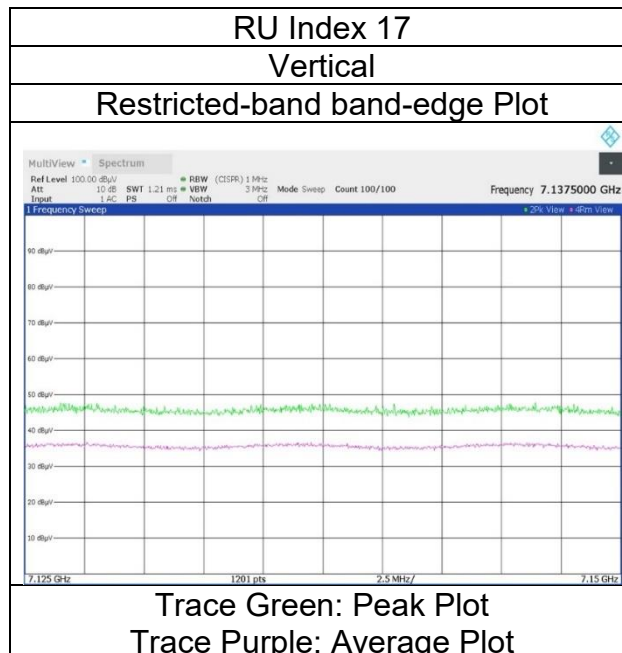
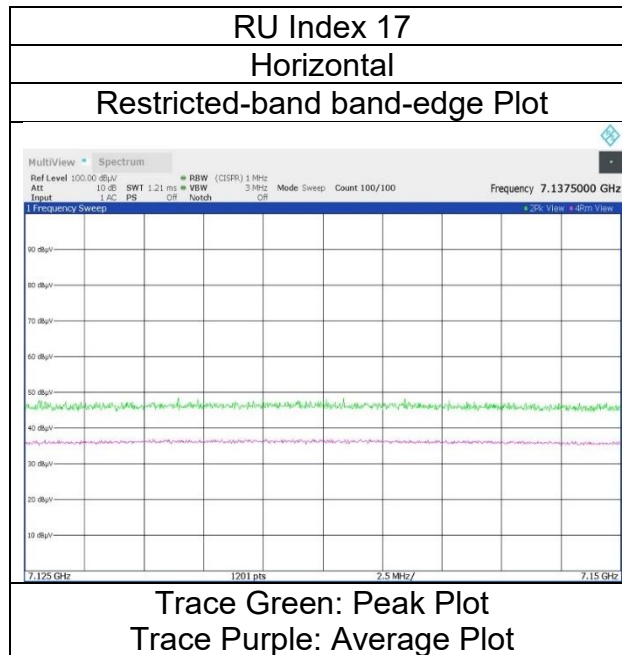
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

|                        |                                               |
|------------------------|-----------------------------------------------|
| Test place             | Shonan EMC Lab.                               |
| Semi Anechoic Chamber  | WAC1                                          |
| Date                   | May 27, 2024                                  |
| Temperature / Humidity | 23 deg. C, 65 %RH                             |
| Engineer               | Yuta Shiba                                    |
| Mode                   | Tx 11ax-40 (OFDMA) 26-tone RU, 7085 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot               |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 5965 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 37

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 47.48          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.05           | -38.18              | -7.0        | 31.1        | 146         | 342          | -      |
| Hori.    | 5925.000        | AV       | 35.79          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.36           | -49.87              | -27.0       | 22.8        | 146         | 342          | -      |
| Vert.    | 5925.000        | PK       | 45.30          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 54.87           | -40.36              | -7.0        | 33.3        | 150         | 339          | -      |
| Vert.    | 5925.000        | AV       | 34.50          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.07           | -51.16              | -27.0       | 24.1        | 150         | 339          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

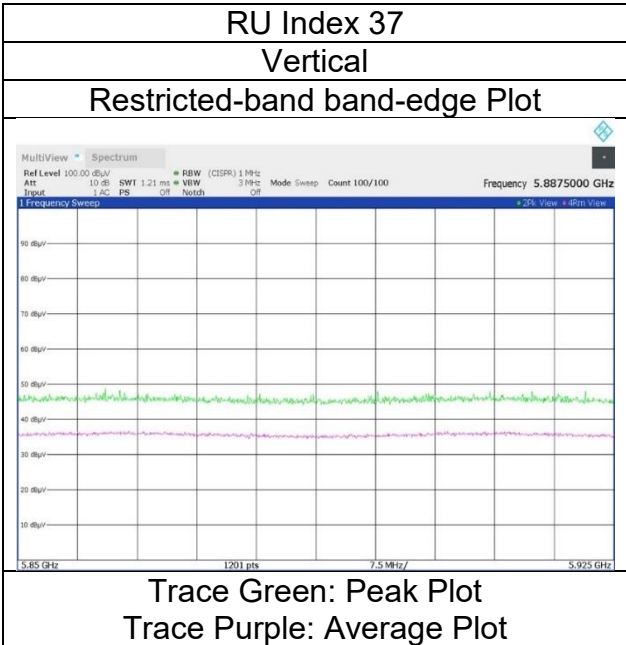
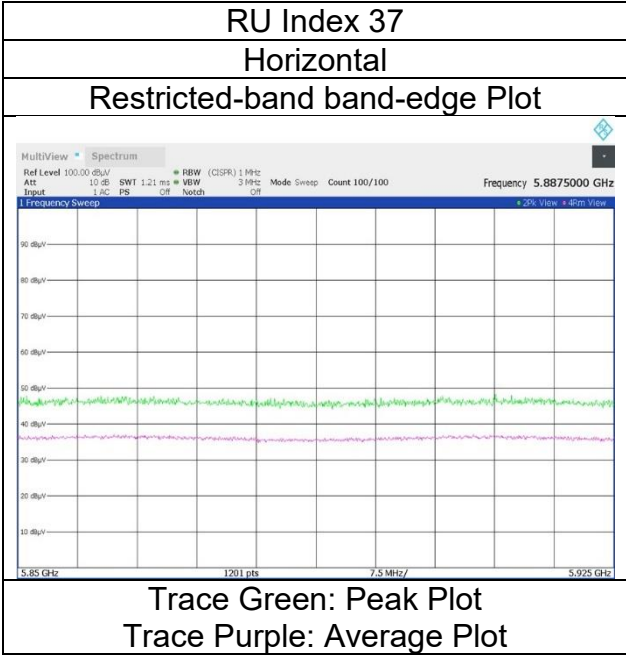
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                               |
|------------------------|-----------------------------------------------|
| Test place             | Shonan EMC Lab.                               |
| Semi Anechoic Chamber  | WAC1                                          |
| Date                   | May 27, 2024                                  |
| Temperature / Humidity | 23 deg. C,65 %RH                              |
| Engineer               | Yuta Shiba                                    |
|                        | (1 GHz -10 GHz)                               |
| Mode                   | Tx 11ax-40 (OFDMA) 52-tone RU, 5965 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot               |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 52-tone RU, 7085 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 44

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 47.87          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.92           | -33.31              | -7.0        | 26.3        | 113         | 4            | -      |
| Hori.    | 7125.000        | AV       | 35.93          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.98           | -45.25              | -27.0       | 18.2        | 113         | 4            | -      |
| Vert.    | 7125.000        | PK       | 45.78          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.83           | -35.40              | -7.0        | 28.4        | 164         | 76           | -      |
| Vert.    | 7125.000        | AV       | 34.58          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 48.63           | -46.60              | -27.0       | 19.6        | 164         | 76           | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]}^2 \cdot 30 \cdot 10^3 \right)$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

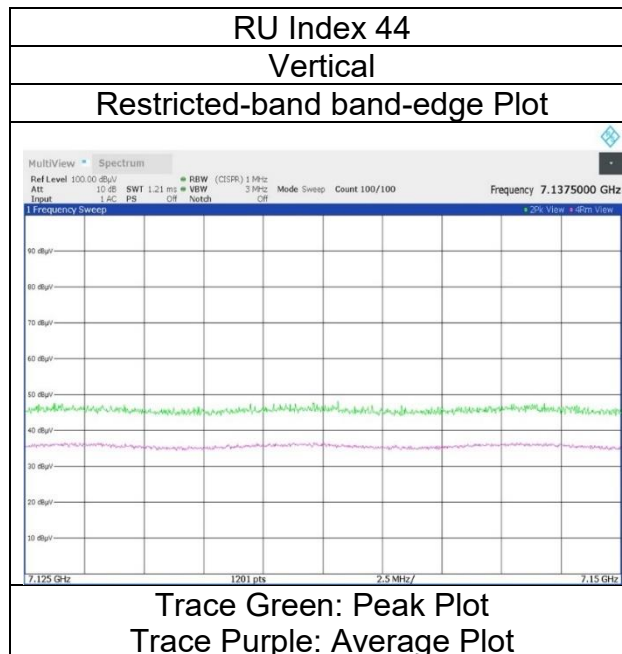
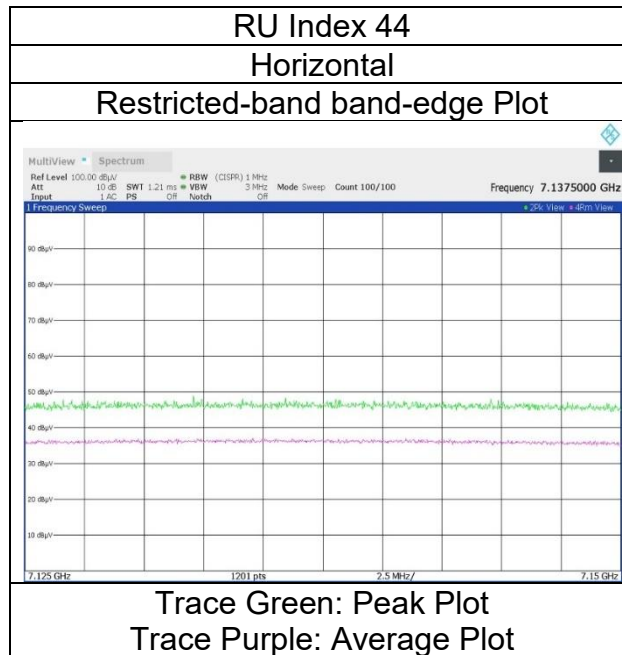
10 GHz - 40 GHz :  $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 27, 2024  
23 deg. C, 65 %RH  
Yuta Shiba  
(1 GHz -10 GHz)  
Tx 11ax-40 (OFDMA) 52-tone RU, 7085 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 5965 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 53

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 47.92          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.49           | -37.74              | -7.0        | 30.7        | 146         | 341          | -      |
| Hori.    | 5925.000        | AV       | 35.67          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.24           | -49.99              | -27.0       | 22.9        | 146         | 341          | -      |
| Vert.    | 5925.000        | PK       | 45.48          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.05           | -40.18              | -7.0        | 33.1        | 150         | 339          | -      |
| Vert.    | 5925.000        | AV       | 34.77          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.34           | -50.89              | -27.0       | 23.8        | 150         | 339          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

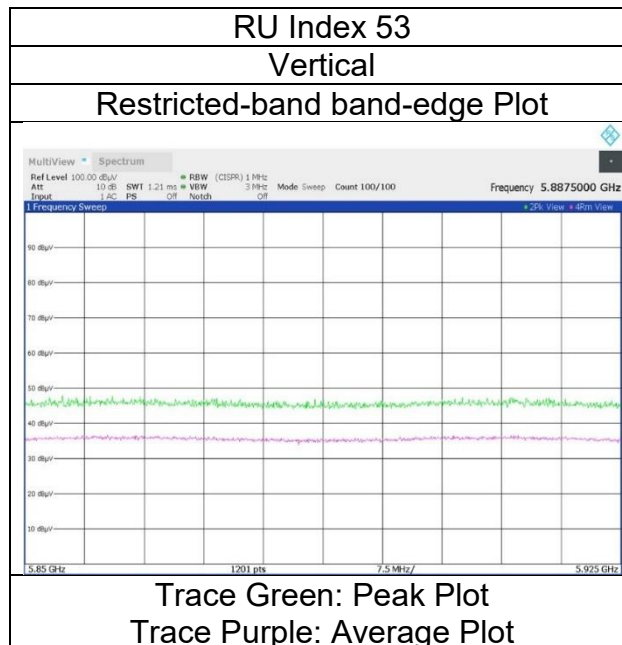
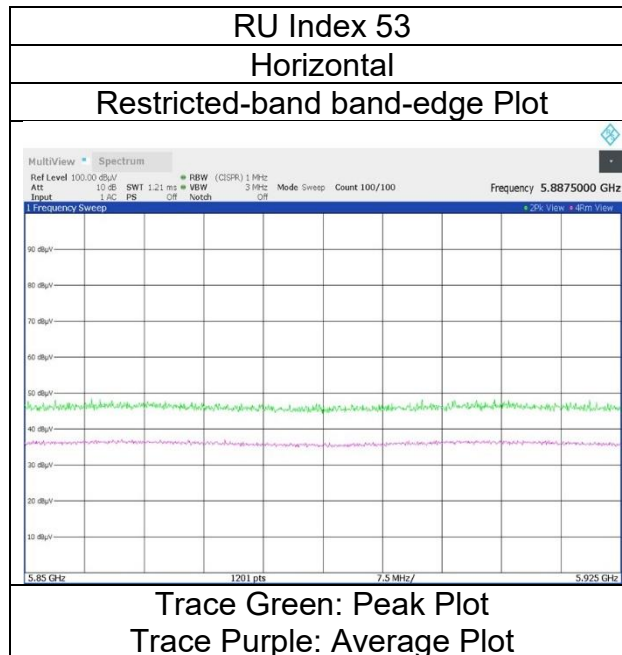
10 GHz - 40 GHz :  $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 27, 2024  
23 deg. C, 65 %RH  
Yuta Shiba  
(1 GHz -10 GHz)  
Tx 11ax-40 (OFDMA) 106 -tone RU, 5965 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 106 -tone RU, 7085 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 56

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 47.78          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.83           | -33.40              | -7.0        | 26.4        | 113         | 4            | -      |
| Hori.    | 7125.000        | AV       | 35.92          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.97           | -45.26              | -27.0       | 18.2        | 113         | 4            | -      |
| Vert.    | 7125.000        | PK       | 46.71          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.76           | -34.47              | -7.0        | 27.4        | 140         | 76           | -      |
| Vert.    | 7125.000        | AV       | 34.42          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 48.47           | -46.76              | -27.0       | 19.7        | 140         | 76           | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

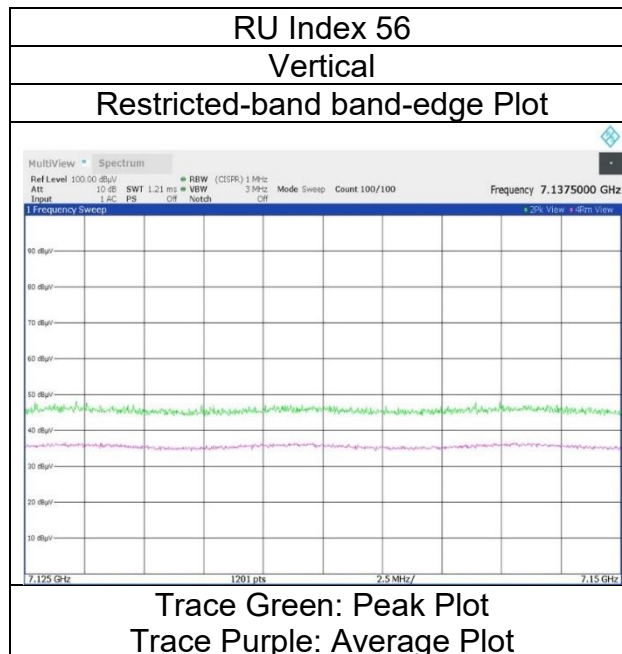
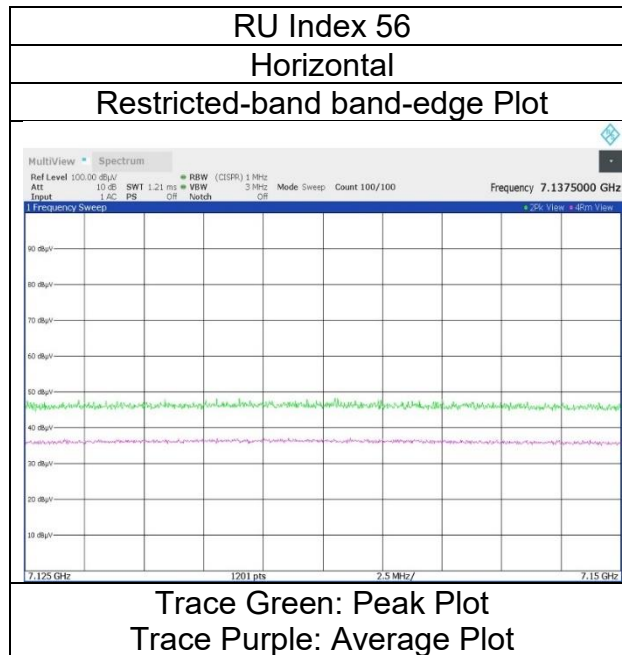
10 GHz - 40 GHz :  $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 27, 2024  
23 deg. C, 65 %RH  
Yuta Shiba  
(1 GHz -10 GHz)  
Tx 11ax-40 (OFDMA) 106 -tone RU, 7085 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 5965 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 47.30          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 56.87           | -38.36              | -7.0        | 31.3        | 133         | 343          | -      |
| Hori.    | 5925.000        | AV       | 35.30          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.87           | -50.36              | -27.0       | 23.3        | 133         | 343          | -      |
| Vert.    | 5925.000        | PK       | 46.12          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.69           | -39.54              | -7.0        | 32.5        | 153         | 338          | -      |
| Vert.    | 5925.000        | AV       | 35.48          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.05           | -50.18              | -27.0       | 23.1        | 153         | 338          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^{\frac{2}{30}} \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

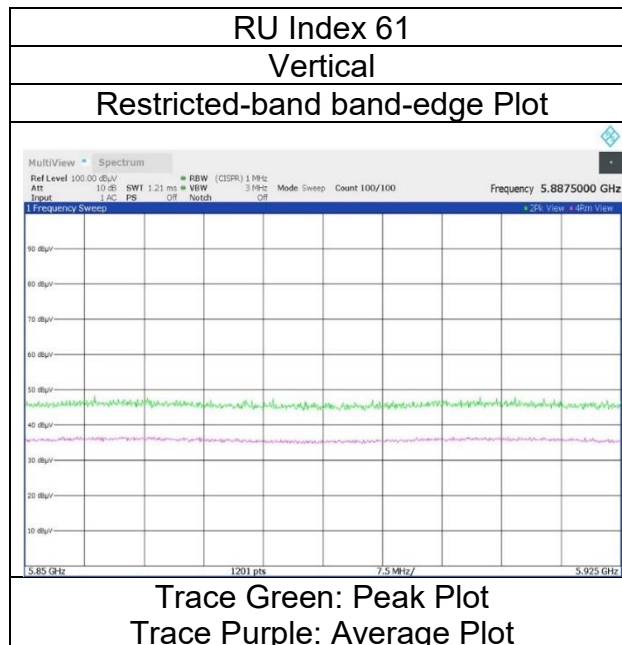
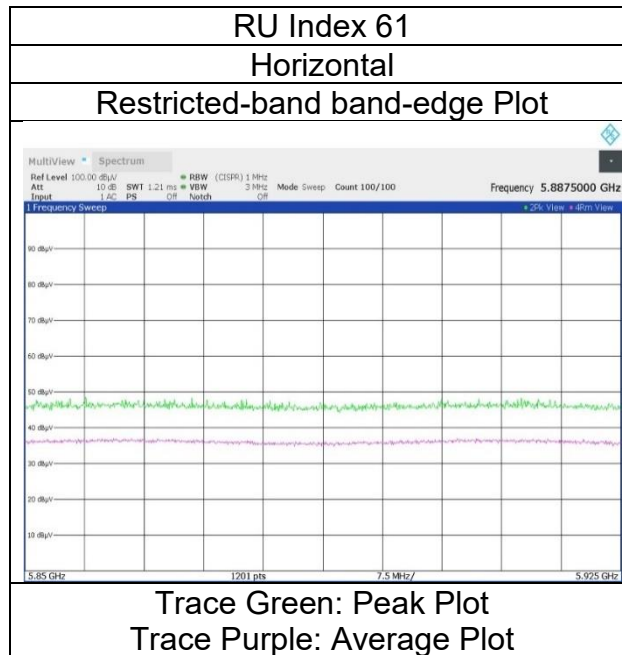
10 GHz - 40 GHz :  $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 27, 2024  
23 deg. C, 65 %RH  
Yuta Shiba  
(1 GHz -10 GHz)  
Tx 11ax-40 (OFDMA) 242-tone RU, 5965 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 27, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yuta Shiba  
(1 GHz -10 GHz)  
Mode Tx 11ax-40 (OFDMA) 242-tone RU, 7085 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 62

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 46.85          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 61.09           | -34.14              | -7.0        | 27.1        | 108         | 338          | -      |
| Hori.    | 7125.000        | AV       | 35.64          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 49.88           | -45.35              | -27.0       | 18.3        | 108         | 338          | -      |
| Vert.    | 7125.000        | PK       | 47.42          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 61.66           | -33.57              | -7.0        | 26.5        | 130         | 85           | -      |
| Vert.    | 7125.000        | AV       | 35.38          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 49.62           | -45.61              | -27.0       | 18.6        | 130         | 85           | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{(-6)} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

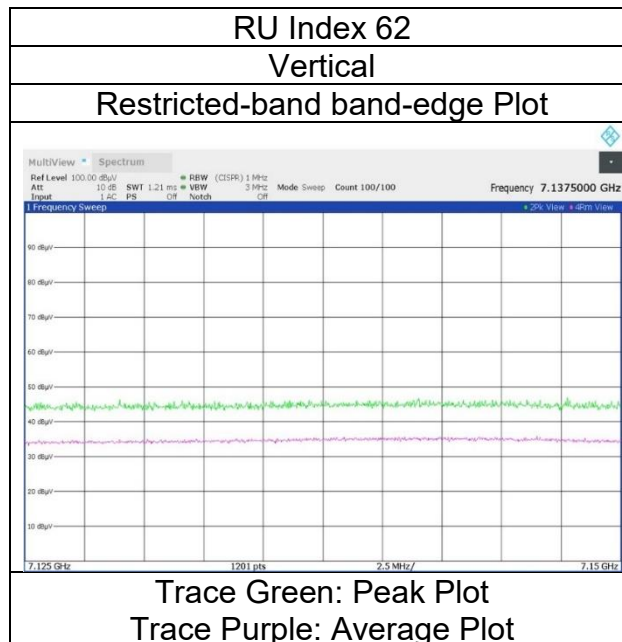
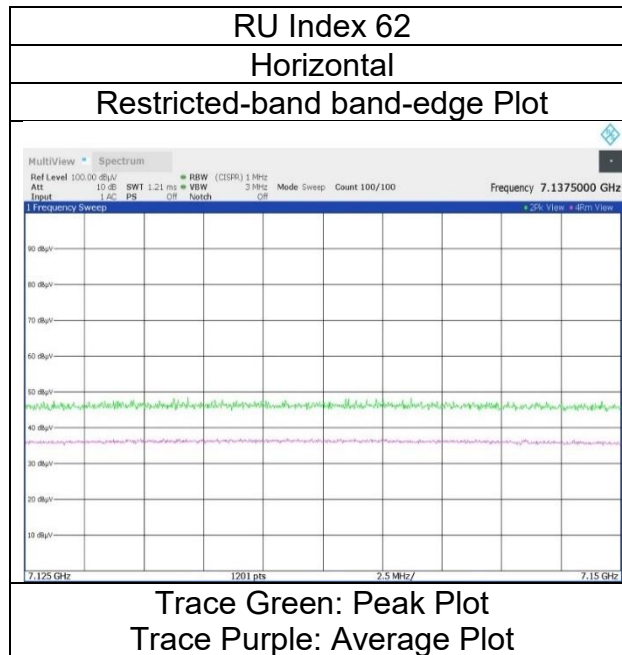
10 GHz - 40 GHz :  $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 27, 2024  
23 deg. C, 65 %RH  
Yuta Shiba  
(1 GHz -10 GHz)  
Tx 11ax-40 (OFDMA) 242-tone RU, 7085 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

|                        |                                                |                   |
|------------------------|------------------------------------------------|-------------------|
| Test place             | Shonan EMC Lab.                                |                   |
| Semi Anechoic Chamber  | WAC1                                           | WAC1              |
| Date                   | May 27, 2024                                   | June 2, 2024      |
| Temperature / Humidity | 23 deg. C, 65 %RH                              | 32 deg. C, 62 %RH |
| Engineer               | Yuta Shiba                                     | Makoto Hosaka     |
|                        | (1 GHz -10 GHz)                                | (10 GHz -18 GHz)  |
| Mode                   | Tx 11ax-40 (OFDMA) 484-tone RU, 5965 MHz (CDD) |                   |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |                   |

### RU Index 65

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 11930.000       | PK       | 48.09          | 38.55           | -25.70    | -         | -9.54                | 51.40           | 73.9           | 22.5        | 150         | 0            | Floor Noise |
| Hori.    | 17895.000       | PK       | 47.85          | 40.34           | -21.49    | -         | -9.54                | 57.16           | 73.9           | 16.7        | 150         | 0            | Floor Noise |
| Hori.    | 11930.000       | AV       | 35.81          | 38.55           | -25.70    | -         | -9.54                | 39.12           | 53.9           | 14.7        | 150         | 0            | Floor Noise |
| Hori.    | 17895.000       | AV       | 35.86          | 40.34           | -21.49    | -         | -9.54                | 45.17           | 53.9           | 8.7         | 150         | 0            | Floor Noise |
| Vert.    | 11930.000       | PK       | 47.47          | 38.55           | -25.70    | -         | -9.54                | 50.78           | 73.9           | 23.1        | 150         | 0            | Floor Noise |
| Vert.    | 17895.000       | PK       | 47.84          | 40.34           | -21.49    | -         | -9.54                | 57.15           | 73.9           | 16.7        | 150         | 0            | Floor Noise |
| Vert.    | 11930.000       | AV       | 36.15          | 38.55           | -25.70    | -         | -9.54                | 39.46           | 53.9           | 14.4        | 150         | 0            | Floor Noise |
| Vert.    | 17895.000       | AV       | 35.95          | 40.34           | -21.49    | -         | -9.54                | 45.26           | 53.9           | 8.6         | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 47.61          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.18           | -38.05              | -7.0        | 31.0        | 140         | 341          | -      |
| Hori.    | 5925.000        | AV       | 35.51          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.08           | -50.15              | -27.0       | 23.1        | 140         | 341          | -      |
| Vert.    | 5925.000        | PK       | 46.10          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.67           | -39.56              | -7.0        | 32.5        | 152         | 338          | -      |
| Vert.    | 5925.000        | AV       | 35.06          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.63           | -50.60              | -27.0       | 23.6        | 152         | 338          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

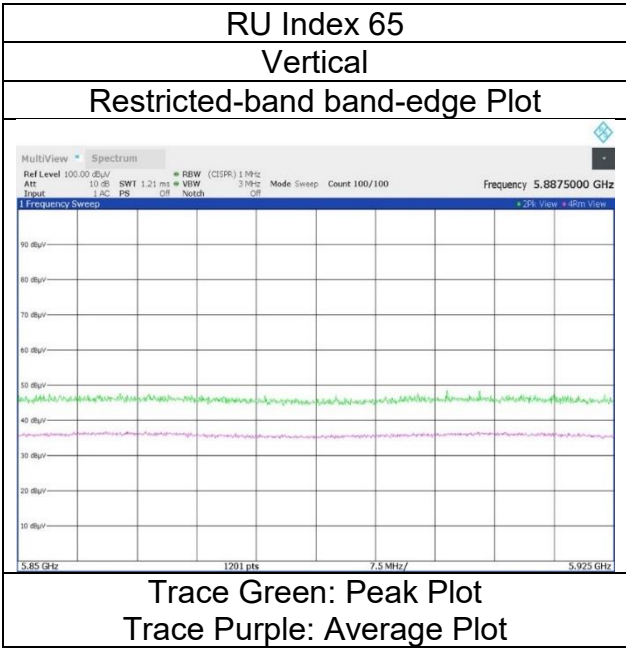
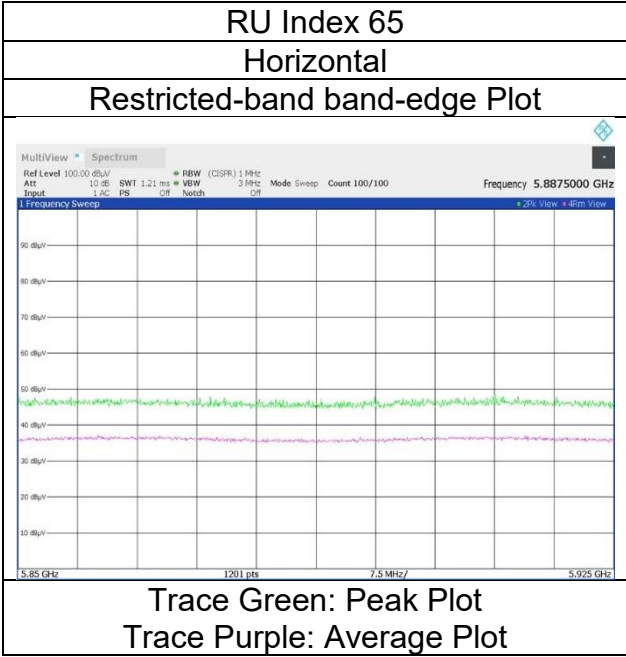
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

**Radiated Spurious Emission**

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 27, 2024                                   |
| Temperature / Humidity | 23 deg. C,65 %RH                               |
| Engineer               | Yuta Shiba                                     |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-40 (OFDMA) 484-tone RU, 5965 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6405 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 12810.000       | PK       | 47.83          | 38.61           | -24.96    | -         | 0.00             | -9.54                | 51.94           | -43.29              | -7.0        | 36.2        | 150         | 0            | Floor Noise |
| Hori.    | 12810.000       | AV       | 35.78          | 38.61           | -24.96    | -         | 0.00             | -9.54                | 39.89           | -55.34              | -27.0       | 28.3        | 150         | 0            | Floor Noise |
| Vert.    | 12810.000       | PK       | 47.52          | 38.61           | -24.96    | -         | 0.00             | -9.54                | 51.63           | -43.60              | -7.0        | 36.6        | 150         | 0            | Floor Noise |
| Vert.    | 12810.000       | AV       | 35.87          | 38.61           | -24.96    | -         | 0.00             | -9.54                | 39.98           | -55.25              | -27.0       | <b>28.2</b> | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6445 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 12890.000       | PK       | 47.63          | 38.70           | -24.92    | -         | 0.00             | -9.54                | 51.87           | -43.36              | -7.0        | 36.3        | 150         | 0            | Floor Noise |
| Hori.    | 12890.000       | AV       | 35.92          | 38.70           | -24.92    | -         | 0.00             | -9.54                | 40.16           | -55.07              | -27.0       | 28.0        | 150         | 0            | Floor Noise |
| Vert.    | 12890.000       | PK       | 47.69          | 38.70           | -24.92    | -         | 0.00             | -9.54                | 51.93           | -43.30              | -7.0        | 36.3        | 150         | 0            | Floor Noise |
| Vert.    | 12890.000       | AV       | 36.01          | 38.70           | -24.92    | -         | 0.00             | -9.54                | 40.25           | -54.98              | -27.0       | 27.9        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]}^2 \cdot 30 \cdot 10^{-3} \right)$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6525 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13050.000       | PK       | 47.64          | 38.85           | -24.85    | -         | 0.00             | -9.54                | 52.10           | -43.13              | -7.0        | 36.1        | 150         | 0            | Floor Noise |
| Hori.    | 13050.000       | AV       | 35.96          | 38.85           | -24.85    | -         | 0.00             | -9.54                | 40.42           | -54.81              | -27.0       | 27.8        | 150         | 0            | Floor Noise |
| Vert.    | 13050.000       | PK       | 47.75          | 38.85           | -24.85    | -         | 0.00             | -9.54                | 52.21           | -43.02              | -7.0        | 36.0        | 150         | 0            | Floor Noise |
| Vert.    | 13050.000       | AV       | 35.85          | 38.85           | -24.85    | -         | 0.00             | -9.54                | 40.31           | -54.92              | -27.0       | 27.9        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6565 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13130.000       | PK       | 47.65          | 38.89           | -24.81    | -         | 0.00             | -9.54                | 52.19           | -43.04              | -7.0        | 36.0        | 150         | 0            | Floor Noise |
| Hori.    | 13130.000       | AV       | 35.76          | 38.89           | -24.81    | -         | 0.00             | -9.54                | 40.30           | -54.93              | -27.0       | 27.9        | 150         | 0            | Floor Noise |
| Vert.    | 13130.000       | PK       | 47.44          | 38.89           | -24.81    | -         | 0.00             | -9.54                | 51.98           | -43.25              | -7.0        | 36.2        | 150         | 0            | Floor Noise |
| Vert.    | 13130.000       | AV       | 35.78          | 38.89           | -24.81    | -         | 0.00             | -9.54                | 40.32           | -54.91              | -27.0       | 27.9        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6845 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13690.000       | PK       | 47.92          | 39.08           | -24.68    | -         | 0.00             | -9.54                | 52.78           | -42.45              | -7.0        | 35.4        | 150         | 0            | Floor Noise |
| Hori.    | 13690.000       | AV       | 36.19          | 39.08           | -24.68    | -         | 0.00             | -9.54                | 41.05           | -54.18              | -27.0       | 27.1        | 150         | 0            | Floor Noise |
| Vert.    | 13690.000       | PK       | 48.06          | 39.08           | -24.68    | -         | 0.00             | -9.54                | 52.92           | -42.31              | -7.0        | 35.3        | 150         | 0            | Floor Noise |
| Vert.    | 13690.000       | AV       | 36.13          | 39.08           | -24.68    | -         | 0.00             | -9.54                | 40.99           | -54.24              | -27.0       | 27.2        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 32 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-40 (OFDMA) 484-tone RU, 6885 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13770.000       | PK       | 47.52          | 39.09           | -24.70    | -         | 0.00             | -9.54                | 52.37           | -42.86              | -7.0        | 35.8        | 150         | 0            | Floor Noise |
| Hori.    | 13770.000       | AV       | 35.88          | 39.09           | -24.70    | -         | 0.00             | -9.54                | 40.73           | -54.50              | -27.0       | 27.5        | 150         | 0            | Floor Noise |
| Vert.    | 13770.000       | PK       | 47.77          | 39.09           | -24.70    | -         | 0.00             | -9.54                | 52.62           | -42.61              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Vert.    | 13770.000       | AV       | 35.83          | 39.09           | -24.70    | -         | 0.00             | -9.54                | 40.68           | -54.55              | -27.0       | 27.5        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( (10^{\text{Electric Field Strength [dBuV/m]} / 20}) \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

|                        |                                                |                   |
|------------------------|------------------------------------------------|-------------------|
| Test place             | Shonan EMC Lab.                                |                   |
| Semi Anechoic Chamber  | WAC1                                           | WAC1              |
| Date                   | May 27, 2024                                   | June 2, 2024      |
| Temperature / Humidity | 23 deg. C, 65 %RH                              | 32 deg. C, 62 %RH |
| Engineer               | Yuta Shiba                                     | Makoto Hosaka     |
|                        | (1 GHz -10 GHz)                                | (10 GHz -18 GHz)  |
| Mode                   | Tx 11ax-40 (OFDMA) 484-tone RU, 7085 MHz (CDD) |                   |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |                   |

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 7125.000        | PK       | 47.63          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.68           | -33.55              | -7.0        | 26.5        | 136         | 3            | -           |
| Hori.    | 14170.000       | PK       | 47.73          | 39.07           | -24.67    | -         | 0.00             | -9.54                | 52.59           | -42.64              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Hori.    | 7125.000        | AV       | 35.58          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.63           | -45.60              | -27.0       | <b>18.6</b> | 136         | 3            | -           |
| Hori.    | 14170.000       | AV       | 36.05          | 39.07           | -24.67    | -         | 0.00             | -9.54                | 40.91           | -54.32              | -27.0       | 27.3        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | PK       | 46.30          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.35           | -34.88              | -7.0        | 27.8        | 166         | 75           | -           |
| Vert.    | 14170.000       | PK       | 47.85          | 39.07           | -24.67    | -         | 0.00             | -9.54                | 52.71           | -42.52              | -7.0        | 35.5        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | AV       | 35.56          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.61           | -45.62              | -27.0       | <b>18.6</b> | 166         | 75           | -           |
| Vert.    | 14170.000       | AV       | 36.03          | 39.07           | -24.67    | -         | 0.00             | -9.54                | 40.89           | -54.34              | -27.0       | 27.3        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

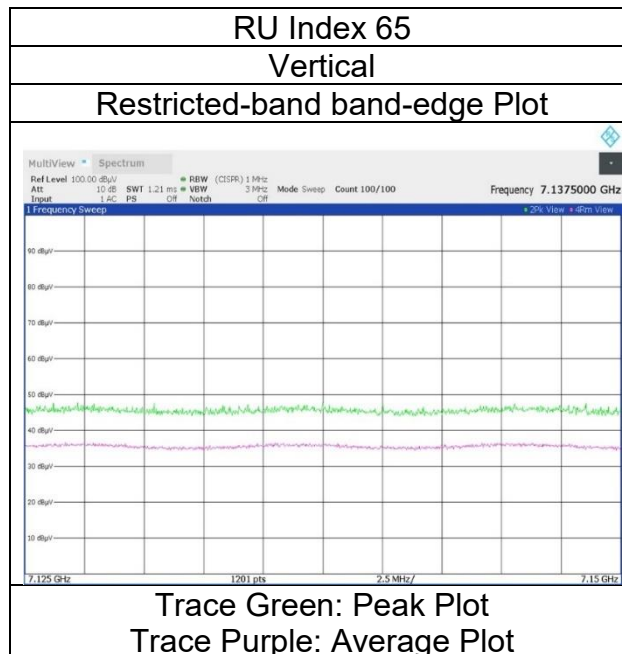
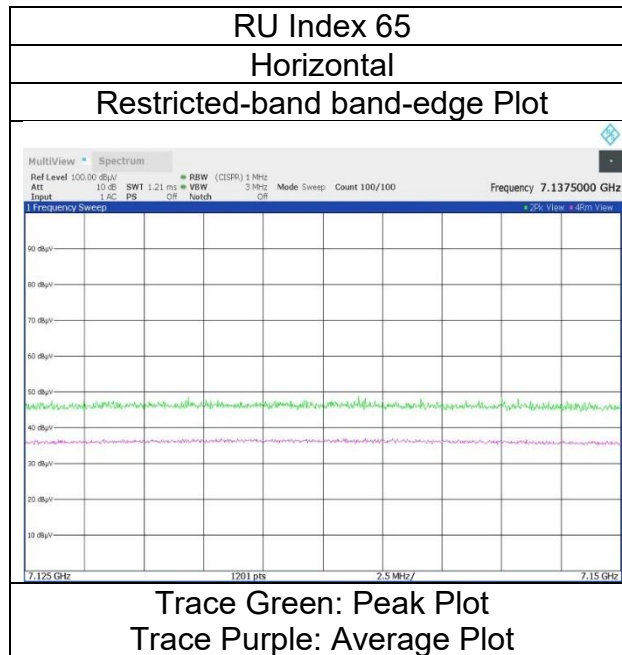
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 27, 2024  
23 deg. C, 65 %RH  
Yuta Shiba  
(1 GHz -10 GHz)  
Tx 11ax-40 (OFDMA) 484-tone RU, 7085 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 5985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 0

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 45.82          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.39           | -39.84              | -7.0        | 32.8        | 148         | 342          | -      |
| Hori.    | 5925.000        | AV       | 35.03          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.60           | -50.63              | -27.0       | 23.6        | 148         | 342          | -      |
| Vert.    | 5925.000        | PK       | 47.71          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.28           | -37.95              | -7.0        | 30.9        | 151         | 340          | -      |
| Vert.    | 5925.000        | AV       | 35.41          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.98           | -50.25              | -27.0       | <b>23.2</b> | 151         | 340          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

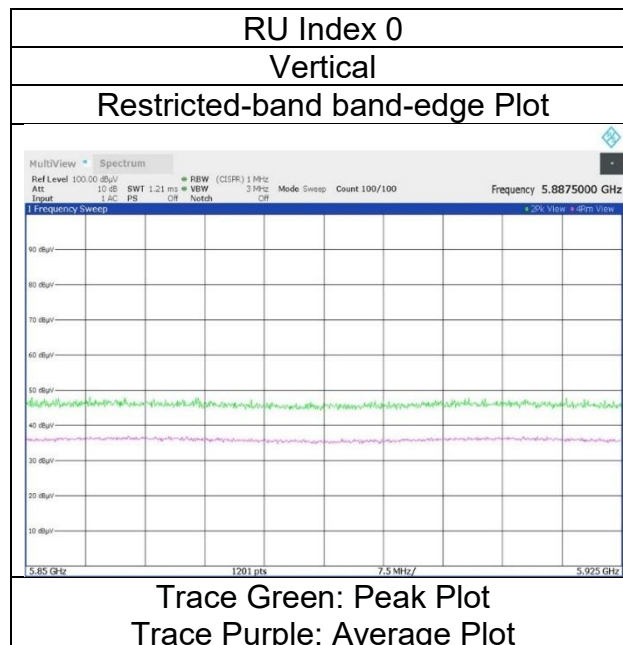
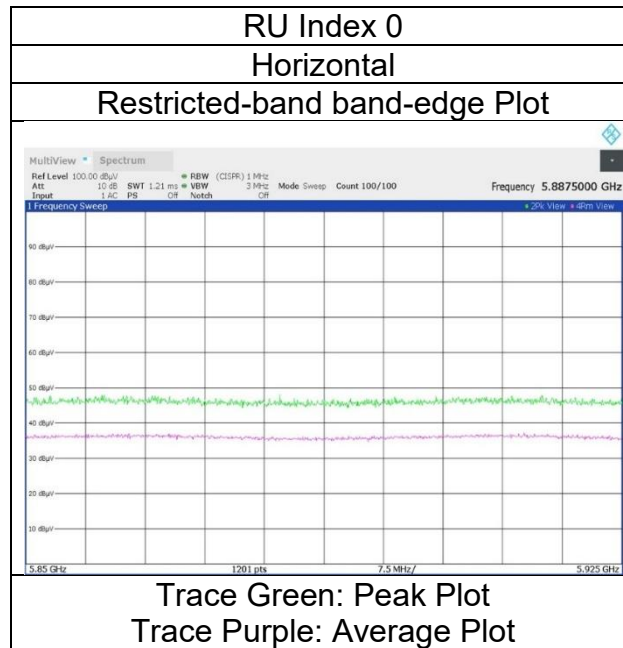
10 GHz - 40 GHz :  $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 26-tone RU, 5985 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 26-tone RU, 7025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 36

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 45.41          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.46           | -35.77              | -7.0        | 28.7        | 161         | 355          | -      |
| Hori.    | 7125.000        | AV       | 35.09          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.14           | -46.09              | -27.0       | 19.0        | 161         | 355          | -      |
| Vert.    | 7125.000        | PK       | 47.54          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.59           | -33.64              | -7.0        | 26.6        | 175         | 189          | -      |
| Vert.    | 7125.000        | AV       | 35.81          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.86           | -45.37              | -27.0       | 18.3        | 175         | 189          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 \times 10^3$

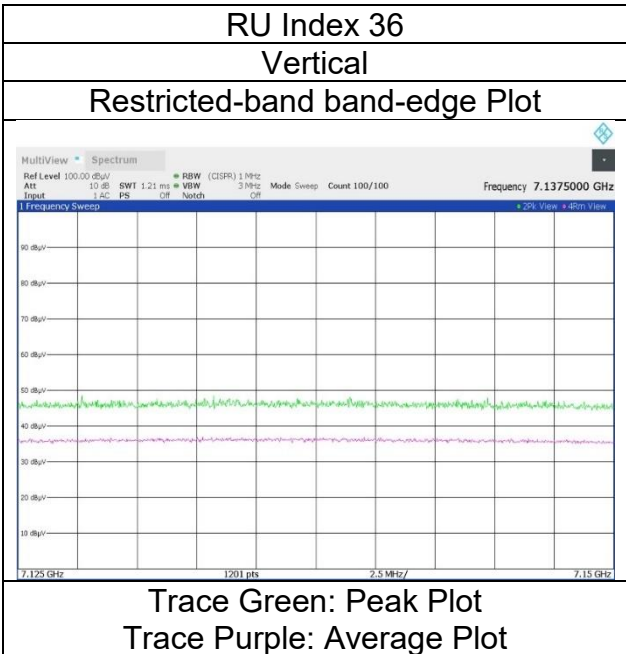
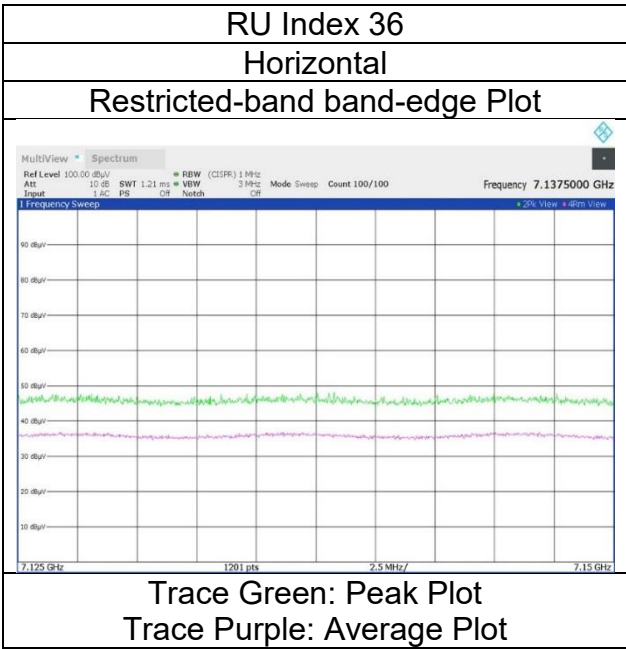
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                               |
|------------------------|-----------------------------------------------|
| Test place             | Shonan EMC Lab.                               |
| Semi Anechoic Chamber  | WAC1                                          |
| Date                   | May 24, 2024                                  |
| Temperature / Humidity | 23 deg. C, 62 %RH                             |
| Engineer               | Yohsuke Matsuzawa                             |
|                        | (1 GHz -10 GHz)                               |
| Mode                   | Tx 11ax-80 (OFDMA) 26-tone RU, 7025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot               |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 5985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 37

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 45.56          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.13           | -40.10              | -7.0        | 33.1        | 149         | 342          | -      |
| Hori.    | 5925.000        | AV       | 35.08          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.65           | -50.58              | -27.0       | 23.5        | 149         | 342          | -      |
| Vert.    | 5925.000        | PK       | 48.52          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 58.09           | -37.14              | -7.0        | 30.1        | 187         | 330          | -      |
| Vert.    | 5925.000        | AV       | 37.16          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 46.73           | -48.50              | -27.0       | 21.5        | 187         | 330          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{(-6)} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

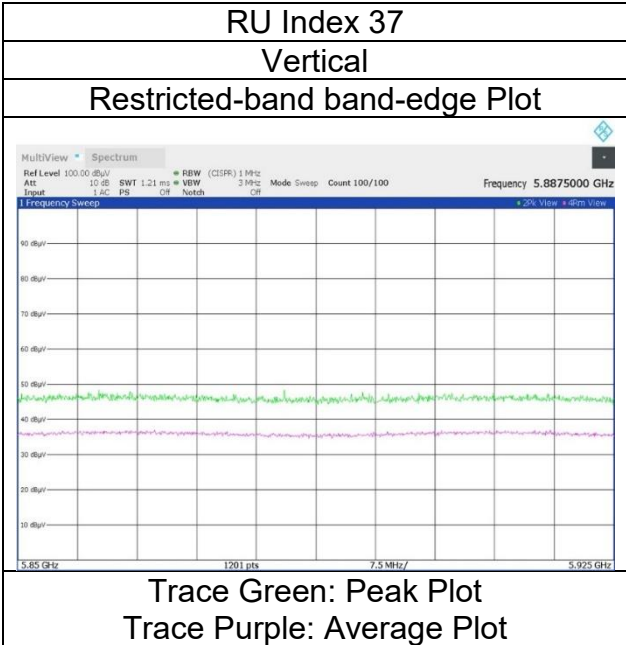
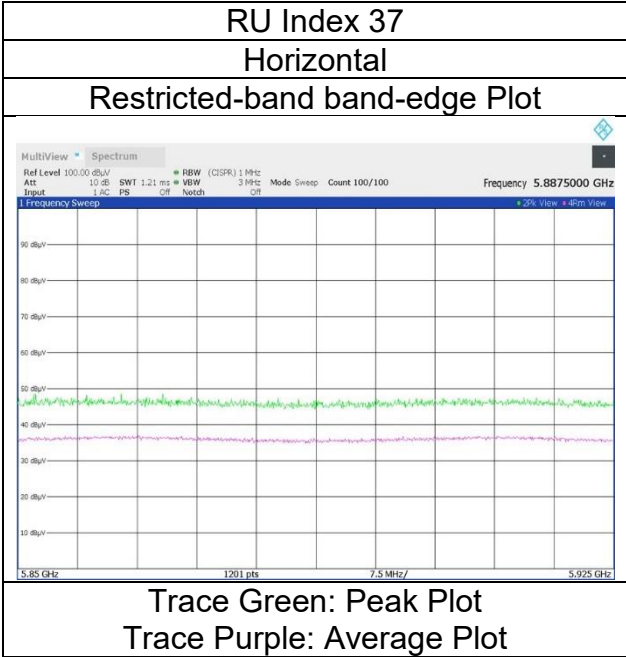
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                               |
|------------------------|-----------------------------------------------|
| Test place             | Shonan EMC Lab.                               |
| Semi Anechoic Chamber  | WAC1                                          |
| Date                   | May 24, 2024                                  |
| Temperature / Humidity | 23 deg. C, 62 %RH                             |
| Engineer               | Yohsuke Matsuzawa                             |
|                        | (1 GHz -10 GHz)                               |
| Mode                   | Tx 11ax-80 (OFDMA) 52-tone RU, 5985 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot               |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 52-tone RU, 7025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 52

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 46.31          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.36           | -34.87              | -7.0        | 27.8        | 138         | 357          | -      |
| Hori.    | 7125.000        | AV       | 35.53          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.58           | -45.65              | -27.0       | 18.6        | 138         | 357          | -      |
| Vert.    | 7125.000        | PK       | 47.34          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.39           | -33.84              | -7.0        | 26.8        | 175         | 189          | -      |
| Vert.    | 7125.000        | AV       | 35.68          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.73           | -45.50              | -27.0       | 18.5        | 175         | 189          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

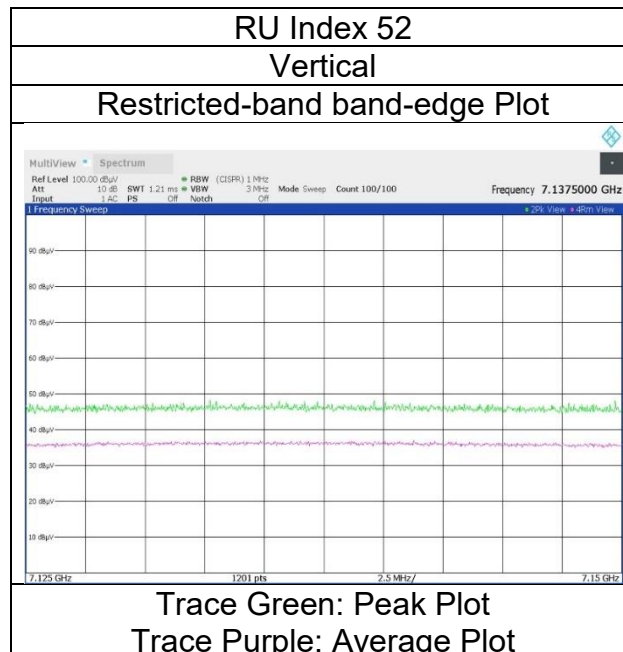
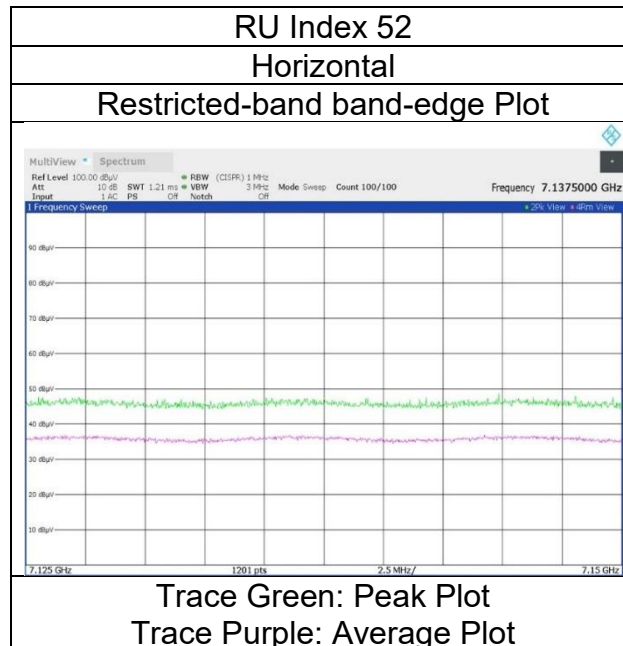
10 GHz - 40 GHz :  $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 52-tone RU, 7025 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 5985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 53

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 45.48          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.05           | -40.18              | -7.0        | 33.1        | 147         | 342          | -      |
| Hori.    | 5925.000        | AV       | 34.71          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.28           | -50.95              | -27.0       | 23.9        | 147         | 342          | -      |
| Vert.    | 5925.000        | PK       | 47.52          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.09           | -38.14              | -7.0        | 31.1        | 157         | 337          | -      |
| Vert.    | 5925.000        | AV       | 35.50          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.07           | -50.16              | -27.0       | 23.1        | 157         | 337          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

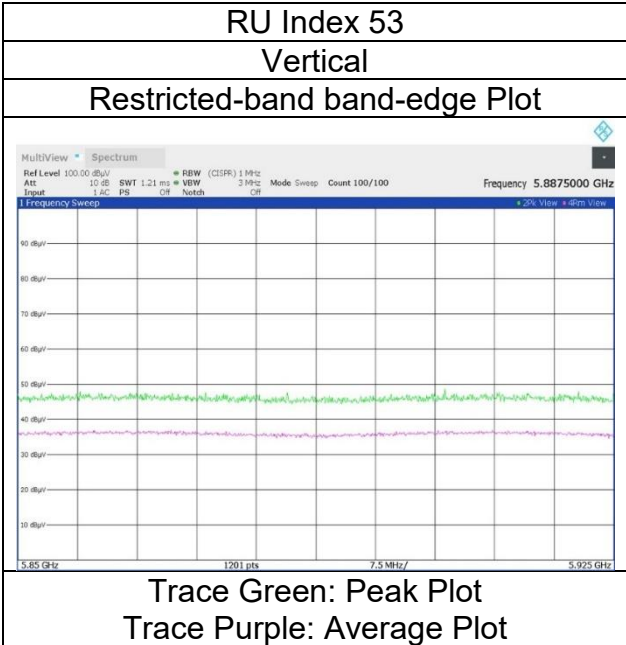
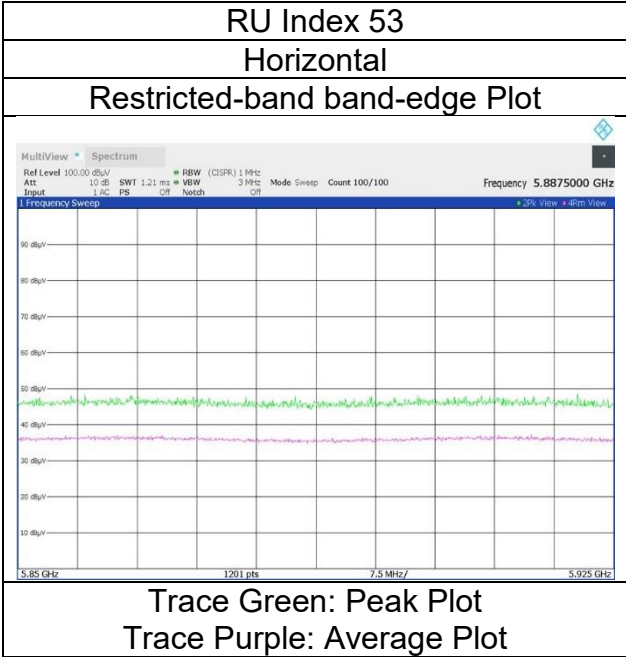
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 24, 2024                                   |
| Temperature / Humidity | 23 deg. C, 62 %RH                              |
| Engineer               | Yohsuke Matsuzawa                              |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-80 (OFDMA) 106-tone RU, 5985 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 106-tone RU, 7025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 60

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 46.13          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.18           | -35.05              | -7.0        | 28.0        | 161         | 357          | -      |
| Hori.    | 7125.000        | AV       | 35.36          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.41           | -45.82              | -27.0       | 18.8        | 161         | 357          | -      |
| Vert.    | 7125.000        | PK       | 47.75          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.80           | -33.43              | -7.0        | 26.4        | 110         | 5            | -      |
| Vert.    | 7125.000        | AV       | 35.72          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.77           | -45.46              | -27.0       | 18.4        | 110         | 5            | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

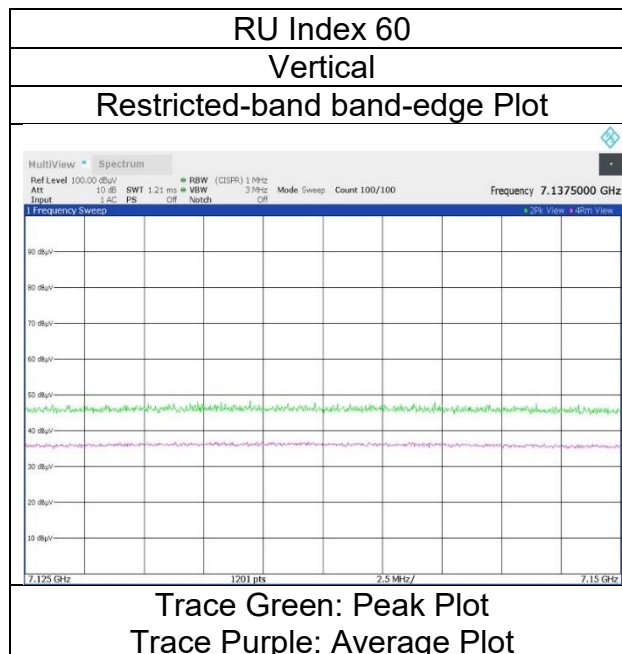
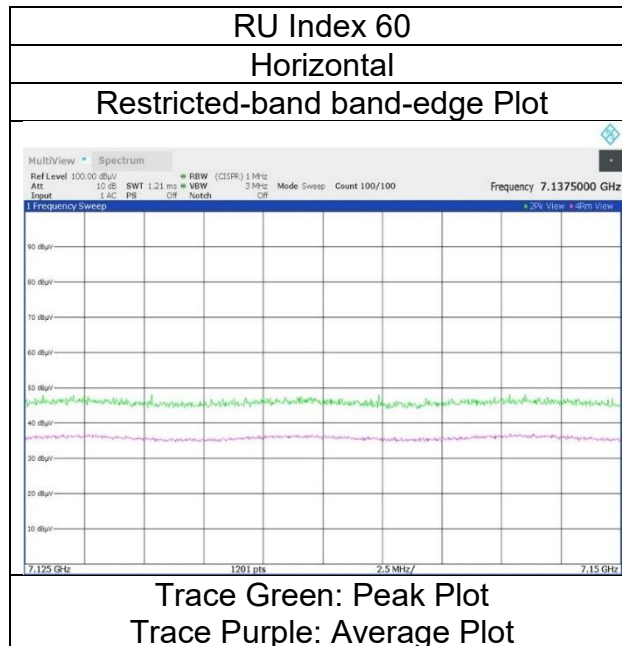
10 GHz - 40 GHz :  $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 106-tone RU, 7025 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 5985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 61

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 46.08          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.65           | -39.58              | -7.0        | 32.5        | 150         | 343          | -      |
| Hori.    | 5925.000        | AV       | 35.21          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.78           | -50.45              | -27.0       | 23.4        | 150         | 343          | -      |
| Vert.    | 5925.000        | PK       | 47.73          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.30           | -37.93              | -7.0        | 30.9        | 152         | 336          | -      |
| Vert.    | 5925.000        | AV       | 35.58          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.15           | -50.08              | -27.0       | 23.0        | 152         | 336          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \times 10^{-6} \times \text{Distance} : 3 \text{ [m]} \right)^2 / 30 \times 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

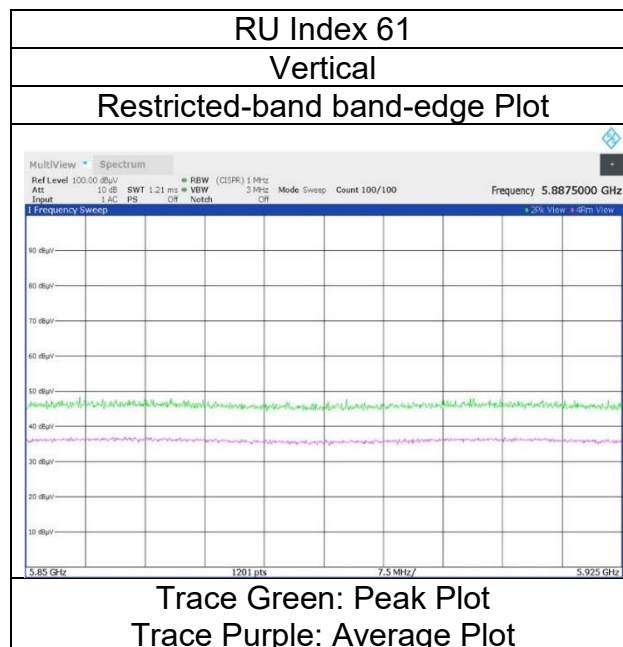
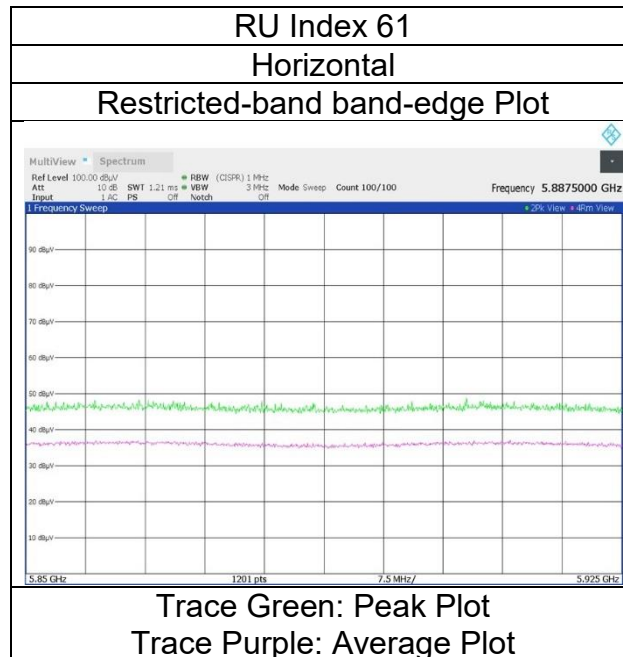
10 GHz - 40 GHz :  $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 242-tone RU, 5985 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-80 (OFDMA) 242-tone RU, 7025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 64

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 46.05          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.10           | -35.13              | -7.0        | 28.1        | 104         | 357          | -      |
| Hori.    | 7125.000        | AV       | 35.60          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.65           | -45.58              | -27.0       | 18.5        | 104         | 357          | -      |
| Vert.    | 7125.000        | PK       | 47.76          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.81           | -33.42              | -7.0        | 26.4        | 133         | 6            | -      |
| Vert.    | 7125.000        | AV       | 36.07          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 50.12           | -45.11              | -27.0       | 18.1        | 133         | 6            | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

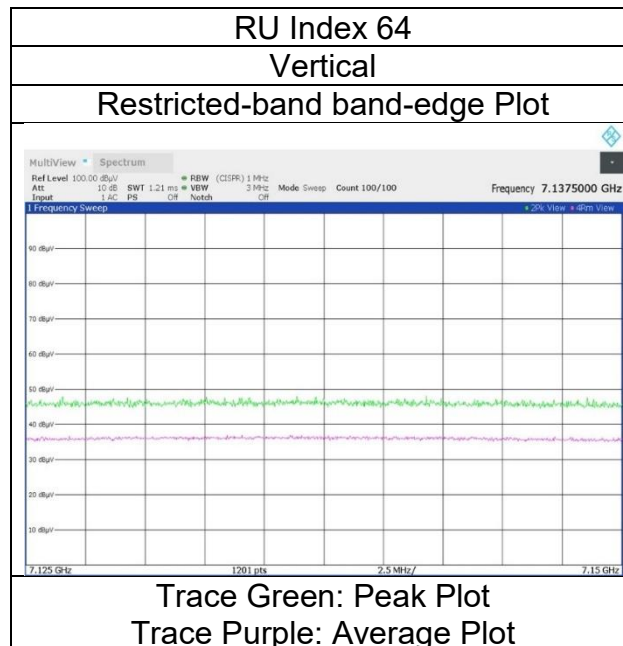
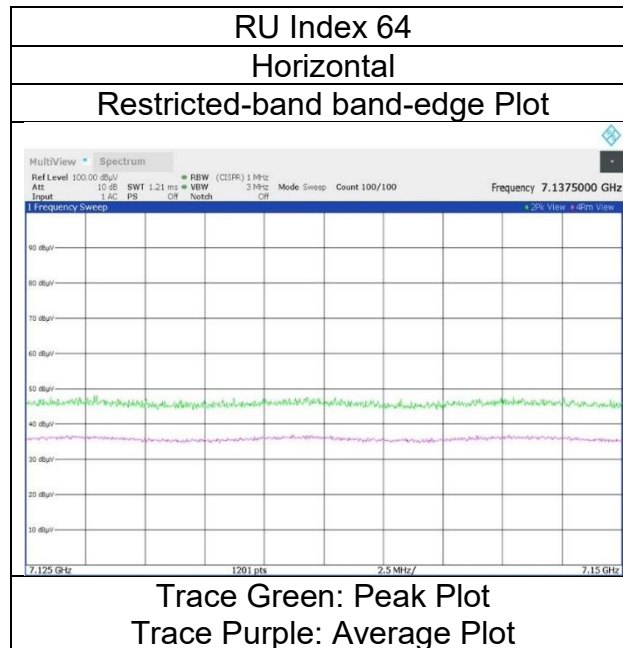
10 GHz - 40 GHz :  $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 242-tone RU, 7025 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date May 24, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 5985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 11970.000       | PK       | 47.45          | 38.60           | -25.69    | -         | -9.54                | 50.82           | 73.9           | 23.0        | 150         | 0            | Floor Noise |
| Hori.    | 17955.000       | PK       | 47.39          | 40.36           | -21.50    | -         | -9.54                | 56.71           | 73.9           | 17.1        | 150         | 0            | Floor Noise |
| Hori.    | 11970.000       | AV       | 35.79          | 38.60           | -25.69    | -         | -9.54                | 39.16           | 53.9           | 14.7        | 150         | 0            | Floor Noise |
| Hori.    | 17955.000       | AV       | 35.81          | 40.36           | -21.50    | -         | -9.54                | 45.13           | 53.9           | 8.7         | 150         | 0            | Floor Noise |
| Vert.    | 11970.000       | PK       | 47.47          | 38.60           | -25.69    | -         | -9.54                | 50.84           | 73.9           | 23.0        | 150         | 0            | Floor Noise |
| Vert.    | 17955.000       | PK       | 47.62          | 40.36           | -21.50    | -         | -9.54                | 56.94           | 73.9           | 16.9        | 150         | 0            | Floor Noise |
| Vert.    | 11970.000       | AV       | 35.47          | 38.60           | -25.69    | -         | -9.54                | 38.84           | 53.9           | 15.0        | 150         | 0            | Floor Noise |
| Vert.    | 17955.000       | AV       | 35.82          | 40.36           | -21.50    | -         | -9.54                | 45.14           | 53.9           | 8.7         | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 46.22          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.79           | -39.44              | -7.0        | 32.4        | 149         | 343          | -      |
| Hori.    | 5925.000        | AV       | 35.20          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.77           | -50.46              | -27.0       | 23.4        | 149         | 343          | -      |
| Vert.    | 5925.000        | PK       | 47.21          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 56.78           | -38.45              | -7.0        | 31.4        | 158         | 337          | -      |
| Vert.    | 5925.000        | AV       | 35.52          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.09           | -50.14              | -27.0       | 23.1        | 158         | 337          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

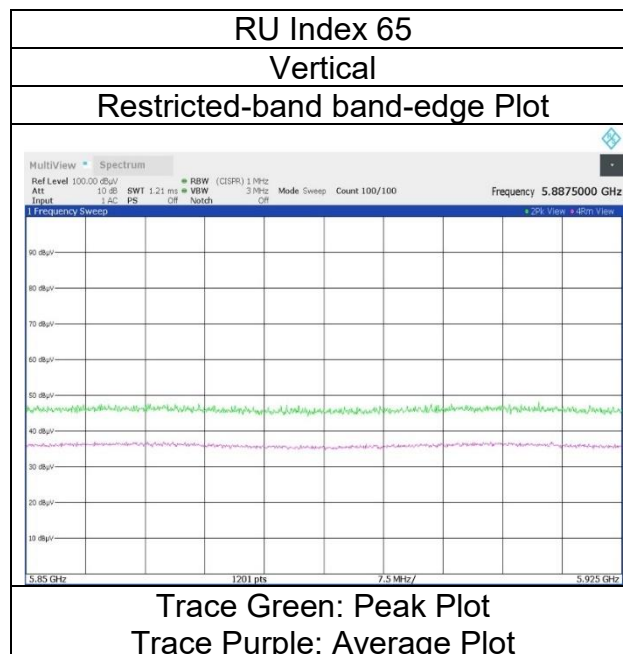
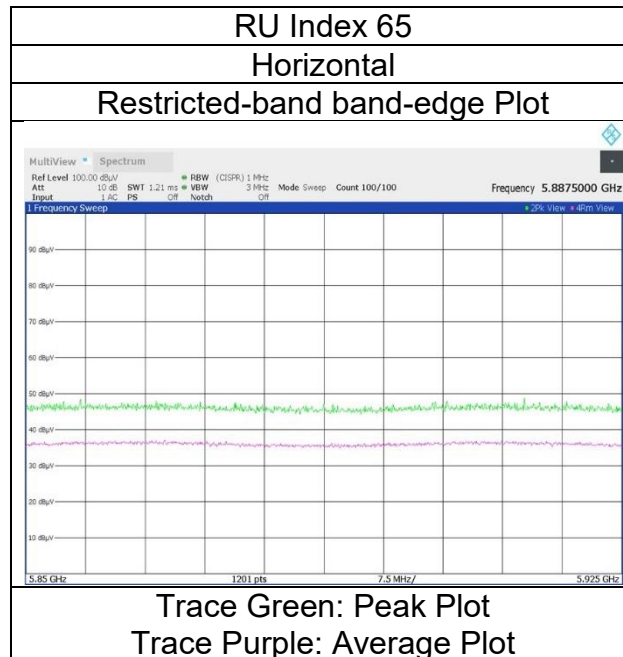
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 484-tone RU, 5985 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6385 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 66

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 12770.000       | PK       | 47.84          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 51.86           | -43.37              | -7.0        | 36.3        | 150         | 0            | Floor Noise |
| Hori.    | 12770.000       | AV       | 35.75          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 39.77           | -55.46              | -27.0       | <b>28.4</b> | 150         | 0            | Floor Noise |
| Vert.    | 12770.000       | PK       | 48.00          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 52.02           | -43.21              | -7.0        | 36.2        | 150         | 0            | Floor Noise |
| Vert.    | 12770.000       | AV       | 35.76          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 39.78           | -55.45              | -27.0       | <b>28.4</b> | 150         | 0            | Floor Noise |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6465 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 12930.000       | PK       | 48.31          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 52.62           | -42.61              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Hori.    | 12930.000       | AV       | 35.96          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 40.27           | -54.96              | -27.0       | 27.9        | 150         | 0            | Floor Noise |
| Vert.    | 12930.000       | PK       | 48.15          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 52.46           | -42.77              | -7.0        | 35.7        | 150         | 0            | Floor Noise |
| Vert.    | 12930.000       | AV       | 36.19          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 40.50           | -54.73              | -27.0       | 27.7        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6465 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 66

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 12930.000       | PK       | 48.04          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 52.35           | -42.88              | -7.0        | 35.8        | 150         | 0            | Floor Noise |
| Hori.    | 12930.000       | AV       | 36.37          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 40.68           | -54.55              | -27.0       | 27.5        | 150         | 0            | Floor Noise |
| Vert.    | 12930.000       | PK       | 47.83          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 52.14           | -43.09              | -7.0        | 36.0        | 150         | 0            | Floor Noise |
| Vert.    | 12930.000       | AV       | 35.92          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 40.23           | -55.00              | -27.0       | 28.0        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6545 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13090.000       | PK       | 47.35          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 51.85           | -43.38              | -7.0        | 36.3        | 150         | 0            | Floor Noise |
| Hori.    | 13090.000       | AV       | 35.92          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 40.42           | -54.81              | -27.0       | 27.8        | 150         | 0            | Floor Noise |
| Vert.    | 13090.000       | PK       | 47.46          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 51.96           | -43.27              | -7.0        | 36.2        | 150         | 0            | Floor Noise |
| Vert.    | 13090.000       | AV       | 36.01          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 40.51           | -54.72              | -27.0       | 27.7        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6865 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 66

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13730.000       | PK       | 47.78          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 52.61           | -42.62              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Hori.    | 13730.000       | AV       | 35.92          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 40.75           | -54.48              | -27.0       | 27.4        | 150         | 0            | Floor Noise |
| Vert.    | 13730.000       | PK       | 48.20          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 53.03           | -42.20              | -7.0        | 35.2        | 150         | 0            | Floor Noise |
| Vert.    | 13730.000       | AV       | 35.77          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 40.60           | -54.63              | -27.0       | 27.6        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 6945 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13890.000       | PK       | 47.99          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 52.79           | -42.44              | -7.0        | 35.4        | 150         | 0            | Floor Noise |
| Hori.    | 13890.000       | AV       | 35.83          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 40.63           | -54.60              | -27.0       | 27.6        | 150         | 0            | Floor Noise |
| Vert.    | 13890.000       | PK       | 47.63          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 52.43           | -42.80              | -7.0        | 35.8        | 150         | 0            | Floor Noise |
| Vert.    | 13890.000       | AV       | 35.80          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 40.60           | -54.63              | -27.0       | 27.6        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date May 24, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 484-tone RU, 7025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 66

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 7125.000        | PK       | 46.95          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 61.19           | -34.04              | -7.0        | 27.0        | 113         | 337          | -           |
| Hori.    | 14050.000       | PK       | 48.40          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 53.14           | -42.09              | -7.0        | 35.0        | 150         | 0            | Floor Noise |
| Hori.    | 7125.000        | AV       | 35.46          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 49.70           | -45.53              | -27.0       | <b>18.5</b> | 113         | 337          | -           |
| Hori.    | 14050.000       | AV       | 36.10          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 40.84           | -54.39              | -27.0       | 27.3        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | PK       | 46.80          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 61.04           | -34.19              | -7.0        | 27.1        | 151         | 86           | -           |
| Vert.    | 14050.000       | PK       | 48.00          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 52.74           | -42.49              | -7.0        | 35.4        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | AV       | 35.45          | 35.91           | -23.77    | -         | 0.00             | 2.10                 | 49.69           | -45.54              | -27.0       | <b>18.5</b> | 151         | 86           | -           |
| Vert.    | 14050.000       | AV       | 35.95          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 40.69           | -54.54              | -27.0       | 27.5        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

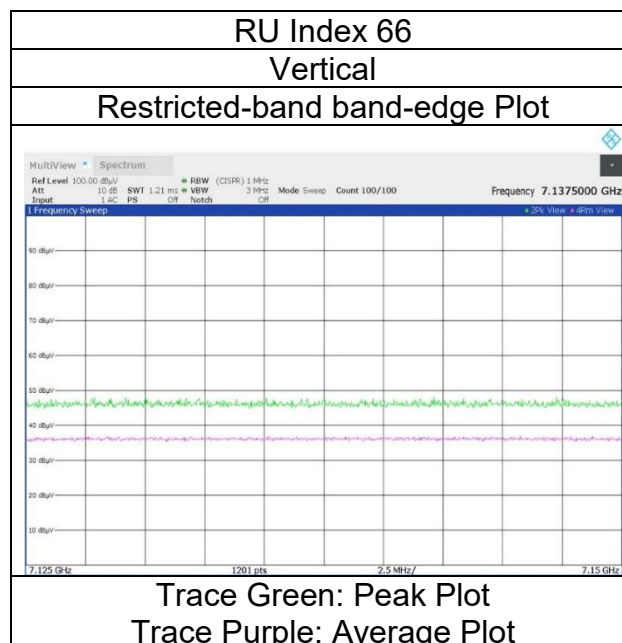
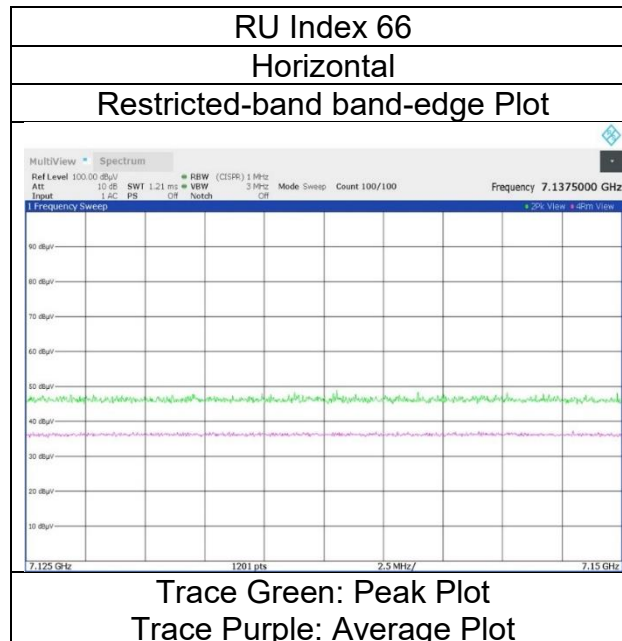
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 484-tone RU, 7025 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date May 24, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 62 %RH 23 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 5985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 11970.000       | PK       | 47.62          | 38.60           | -25.69    | -         | -9.54                | 50.99           | 73.9           | 22.9        | 150         | 0            | Floor Noise |
| Hori.    | 17955.000       | PK       | 47.40          | 40.36           | -21.50    | -         | -9.54                | 56.72           | 73.9           | 17.1        | 150         | 0            | Floor Noise |
| Hori.    | 11970.000       | AV       | 35.81          | 38.60           | -25.69    | -         | -9.54                | 39.18           | 53.9           | 14.7        | 150         | 0            | Floor Noise |
| Hori.    | 17955.000       | AV       | 35.62          | 40.36           | -21.50    | -         | -9.54                | 44.94           | 53.9           | 8.9         | 150         | 0            | Floor Noise |
| Vert.    | 11970.000       | PK       | 47.84          | 38.60           | -25.69    | -         | -9.54                | 51.21           | 73.9           | 22.6        | 150         | 0            | Floor Noise |
| Vert.    | 17955.000       | PK       | 47.48          | 40.36           | -21.50    | -         | -9.54                | 56.80           | 73.9           | 17.1        | 150         | 0            | Floor Noise |
| Vert.    | 11970.000       | AV       | 35.98          | 38.60           | -25.69    | -         | -9.54                | 39.35           | 53.9           | 14.5        | 150         | 0            | Floor Noise |
| Vert.    | 17955.000       | AV       | 35.71          | 40.36           | -21.50    | -         | -9.54                | 45.03           | 53.9           | 8.8         | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 47.14          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 56.71           | -38.52              | -7.0        | 31.5        | 161         | 342          | -      |
| Hori.    | 5925.000        | AV       | 35.35          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.92           | -50.31              | -27.0       | 23.3        | 161         | 342          | -      |
| Vert.    | 5925.000        | PK       | 47.91          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.48           | -37.75              | -7.0        | 30.7        | 164         | 339          | -      |
| Vert.    | 5925.000        | AV       | 35.65          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.22           | -50.01              | -27.0       | 23.0        | 164         | 339          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

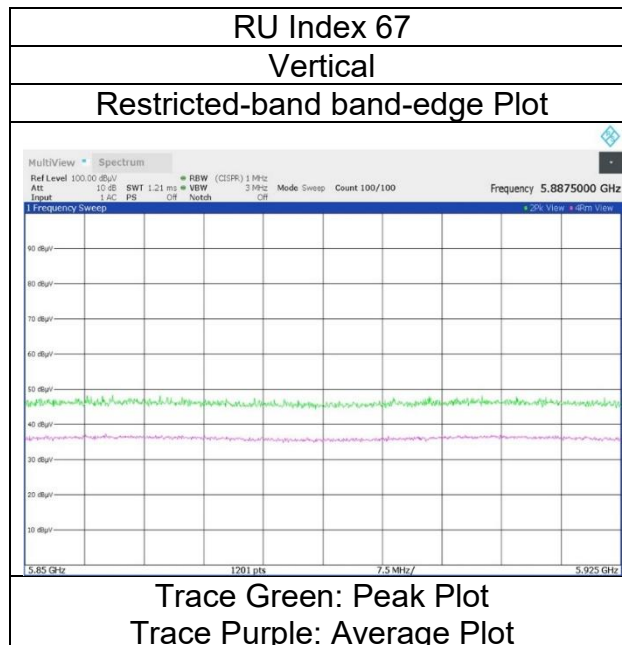
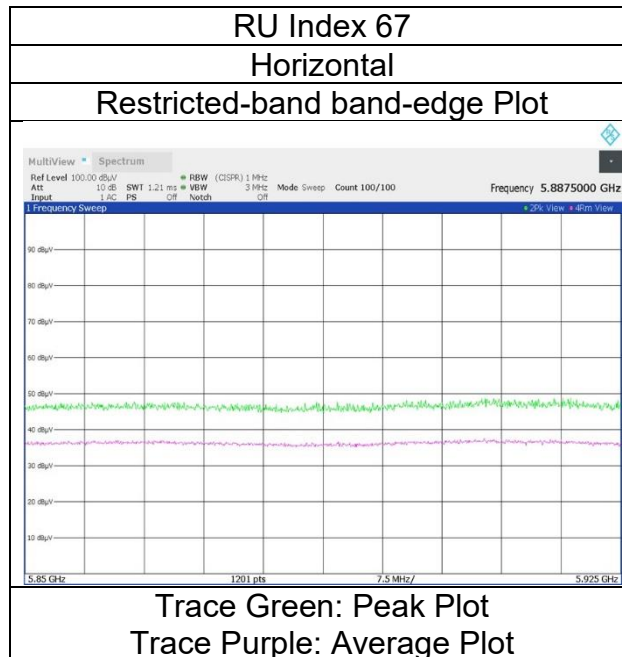
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

## Radiated Spurious Emission

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer

Shonan EMC Lab.  
WAC1  
May 24, 2024  
23 deg. C, 62 %RH  
Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Tx 11ax-80 (OFDMA) 996-tone RU, 5985 MHz (CDD)  
5G CH0: monopole , 5G CH1: slot

Mode  
Antenna type



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6385 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 67

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 12770.000       | PK       | 47.44          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 51.46           | -43.77              | -7.0        | 36.7        | 150         | 0            | Floor Noise |
| Hori.    | 12770.000       | AV       | 35.58          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 39.60           | -55.63              | -27.0       | 28.6        | 150         | 0            | Floor Noise |
| Vert.    | 12770.000       | PK       | 47.29          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 51.31           | -43.92              | -7.0        | 36.9        | 150         | 0            | Floor Noise |
| Vert.    | 12770.000       | AV       | 35.81          | 38.53           | -24.97    | -         | 0.00             | -9.54                | 39.83           | -55.40              | -27.0       | 28.4        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6465 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 67

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

| (* PK: Peak, AV: Average, QP: Quasi-Peak) |                 |          |                |                 |           |           |                  |                      |                 |                     |             |             |             |              |             |  |
|-------------------------------------------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|--|
| Polarity                                  | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |  |
| Hori.                                     | 12930.000       | PK       | 47.89          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 52.20           | -43.03              | -7.0        | 36.0        | 150         | 0            | Floor Noise |  |
| Hori.                                     | 12930.000       | AV       | 36.14          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 40.45           | -54.78              | -27.0       | 27.7        | 150         | 0            | Floor Noise |  |
| Vert.                                     | 12930.000       | PK       | 47.78          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 52.09           | -43.14              | -7.0        | 36.1        | 150         | 0            | Floor Noise |  |
| Vert.                                     | 12930.000       | AV       | 36.01          | 38.76           | -24.91    | -         | 0.00             | -9.54                | 40.32           | -54.91              | -27.0       | 27.9        | 150         | 0            | Floor Noise |  |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6545 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 67

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13090.000       | PK       | 48.38          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 52.88           | -42.35              | -7.0        | 35.3        | 150         | 0            | Floor Noise |
| Hori.    | 13090.000       | AV       | 35.89          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 40.39           | -54.84              | -27.0       | 27.8        | 150         | 0            | Floor Noise |
| Vert.    | 13090.000       | PK       | 47.60          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 52.10           | -43.13              | -7.0        | 36.1        | 150         | 0            | Floor Noise |
| Vert.    | 13090.000       | AV       | 35.84          | 38.86           | -24.82    | -         | 0.00             | -9.54                | 40.34           | -54.89              | -27.0       | 27.8        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6865 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 67

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13730.000       | PK       | 47.80          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 52.63           | -42.60              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Hori.    | 13730.000       | AV       | 35.89          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 40.72           | -54.51              | -27.0       | 27.5        | 150         | 0            | Floor Noise |
| Vert.    | 13730.000       | PK       | 47.77          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 52.60           | -42.63              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Vert.    | 13730.000       | AV       | 35.66          | 39.07           | -24.70    | -         | 0.00             | -9.54                | 40.49           | -54.74              | -27.0       | 27.7        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1  
Date June 13, 2024 June 2, 2024  
Temperature / Humidity 23 deg. C, 64 %RH 23 deg. C, 62 %RH  
Engineer Yusuke Tanikawara Makoto Hosaka  
(1 GHz -10 GHz) (10 GHz -18 GHz)  
Mode Tx 11ax-80 (OFDMA) 996-tone RU, 6945 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### RU Index 67

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13890.000       | PK       | 47.92          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 52.72           | -42.51              | -7.0        | 35.5        | 150         | 0            | Floor Noise |
| Hori.    | 13890.000       | AV       | 36.21          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 41.01           | -54.22              | -27.0       | 27.2        | 150         | 0            | Floor Noise |
| Vert.    | 13890.000       | PK       | 47.98          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 52.78           | -42.45              | -7.0        | 35.4        | 150         | 0            | Floor Noise |
| Vert.    | 13890.000       | AV       | 36.11          | 39.08           | -24.74    | -         | 0.00             | -9.54                | 40.91           | -54.32              | -27.0       | 27.3        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 \cdot 10^{-3}$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

|                        |                                                |                   |
|------------------------|------------------------------------------------|-------------------|
| Test place             | Shonan EMC Lab.                                |                   |
| Semi Anechoic Chamber  | WAC1                                           | WAC1              |
| Date                   | May 24, 2024                                   | June 2, 2024      |
| Temperature / Humidity | 23 deg. C, 65 %RH                              | 23 deg. C, 62 %RH |
| Engineer               | Yohsuke Matsuzawa                              | Makoto Hosaka     |
|                        | (1 GHz -10 GHz)                                | (10 GHz -18 GHz)  |
| Mode                   | Tx 11ax-80 (OFDMA) 996-tone RU, 7025 MHz (CDD) |                   |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |                   |

### RU Index 67

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 7125.000        | PK       | 46.44          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.49           | -34.74              | -7.0        | 27.7        | 155         | 357          | -           |
| Hori.    | 14050.000       | PK       | 47.71          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 52.45           | -42.78              | -7.0        | 35.7        | 150         | 0            | Floor Noise |
| Hori.    | 7125.000        | AV       | 35.15          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.20           | -46.03              | -27.0       | 19.0        | 155         | 357          | -           |
| Hori.    | 14050.000       | AV       | 35.98          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 40.72           | -54.51              | -27.0       | 27.5        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | PK       | 47.60          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.65           | -33.58              | -7.0        | 26.5        | 102         | 189          | -           |
| Vert.    | 14050.000       | PK       | 47.74          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 52.48           | -42.75              | -7.0        | 35.7        | 150         | 0            | Floor Noise |
| Vert.    | 7125.000        | AV       | 35.66          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.71           | -45.52              | -27.0       | <b>18.5</b> | 102         | 189          | -           |
| Vert.    | 14050.000       | AV       | 35.97          | 39.04           | -24.76    | -         | 0.00             | -9.54                | 40.71           | -54.52              | -27.0       | 27.5        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

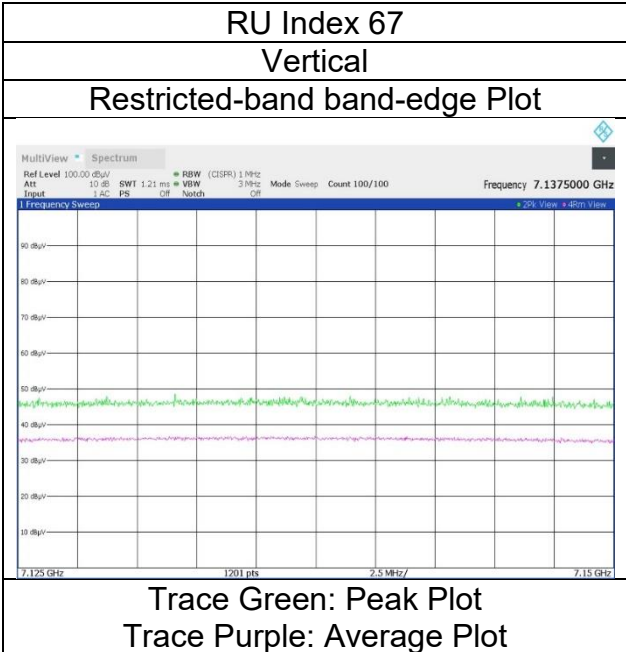
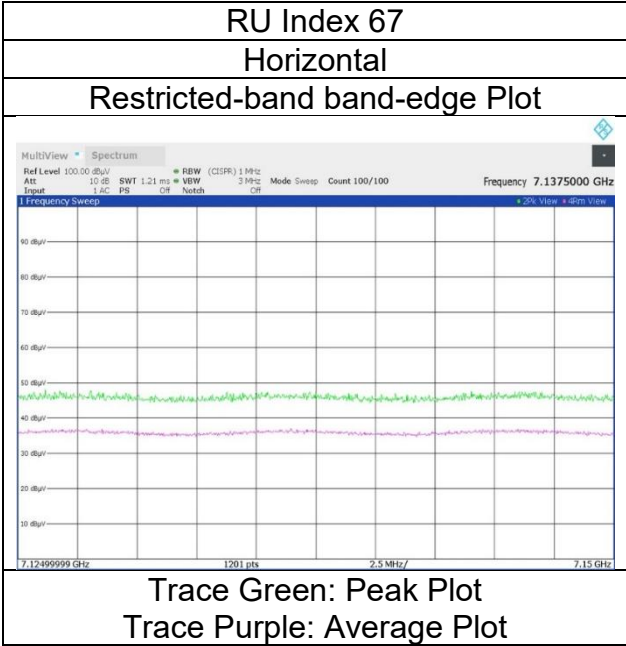
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

**Radiated Spurious Emission**

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 24, 2024                                   |
| Temperature / Humidity | 23 deg. C,65 %RH                               |
| Engineer               | Yohsuke Matsuzawa                              |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-80 (OFDMA) 996-tone RU, 7025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 26-tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 0 / Index 0

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 44.92          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 54.49           | -40.74              | -7.0        | 33.7        | 150         | 341          | -      |
| Hori.    | 5925.000        | AV       | 34.92          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.49           | -50.74              | -27.0       | 23.7        | 150         | 341          | -      |
| Vert.    | 5925.000        | PK       | 47.36          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 56.93           | -38.30              | -7.0        | 31.3        | 152         | 339          | -      |
| Vert.    | 5925.000        | AV       | 35.72          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.29           | -49.94              | -27.0       | <b>22.9</b> | 152         | 339          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

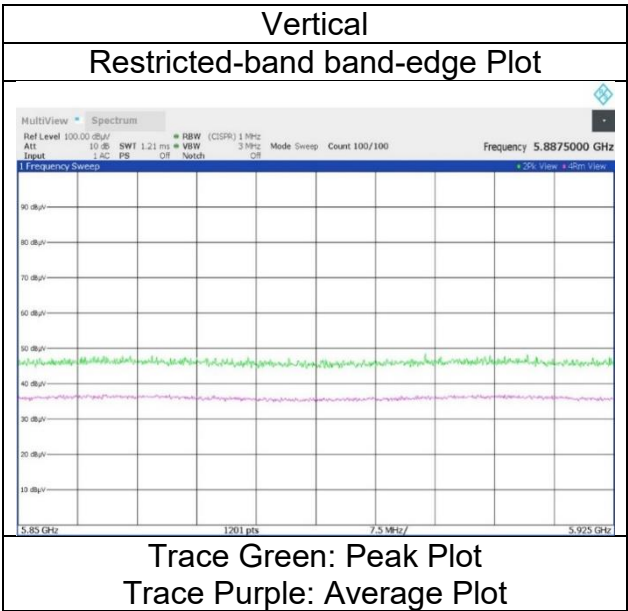
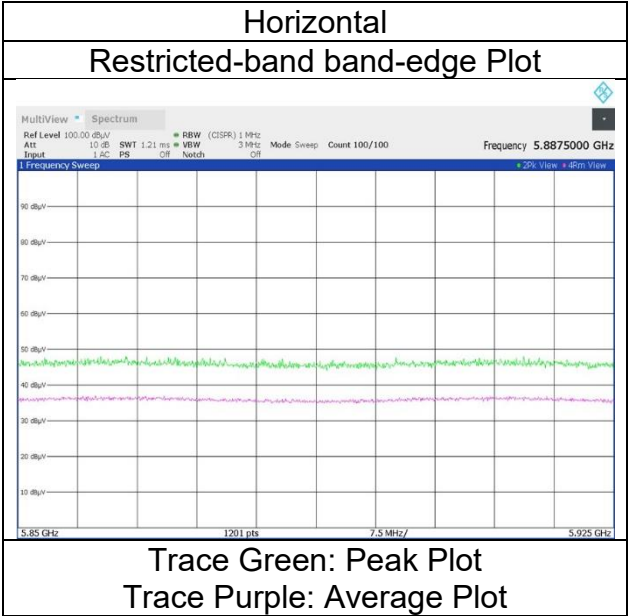
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 24, 2024                                   |
| Temperature / Humidity | 23 deg. C, 65 %RH                              |
| Engineer               | Yohsuke Matsuzawa                              |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-160 (OFDMA) 26-tone RU, 6025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |

Segment 0 / 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 26-tone RU, 6985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 1 / Index 36

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 45.71          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.76           | -35.47              | -7.0        | 28.4        | 140         | 356          | -      |
| Hori.    | 7125.000        | AV       | 35.51          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.56           | -45.67              | -27.0       | 18.6        | 140         | 356          | -      |
| Vert.    | 7125.000        | PK       | 47.57          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.62           | -33.61              | -7.0        | 26.6        | 159         | 190          | -      |
| Vert.    | 7125.000        | AV       | 35.60          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.65           | -45.58              | -27.0       | 18.5        | 159         | 190          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 \times 10^3$

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

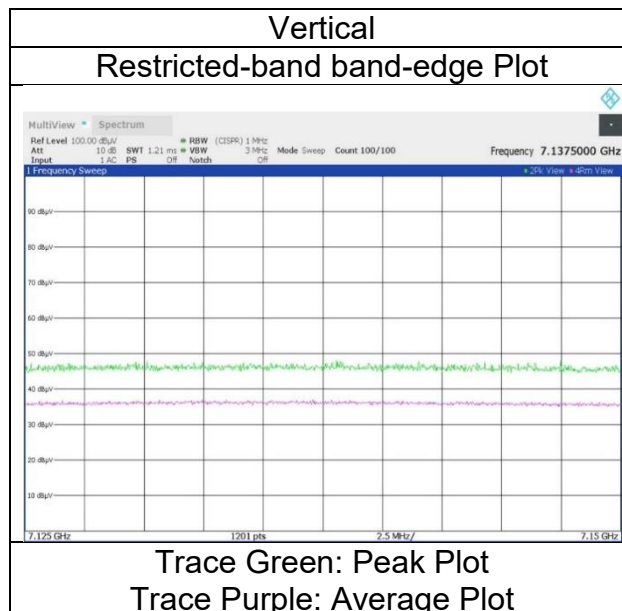
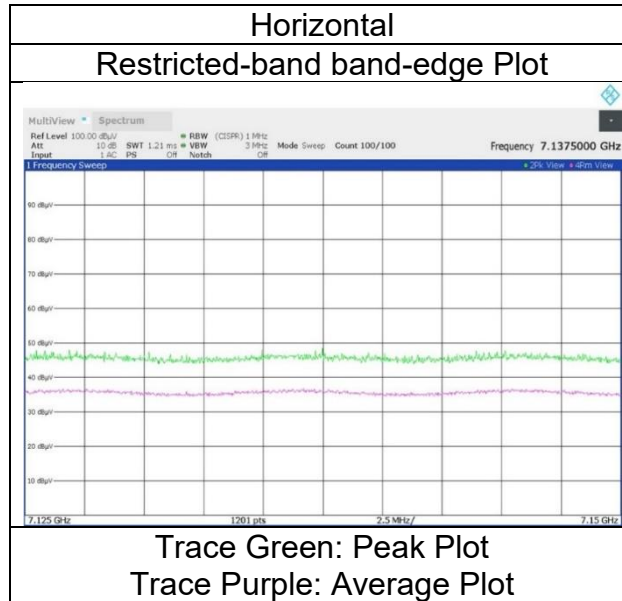
Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 24, 2024                                   |
| Temperature / Humidity | 23 deg. C, 65 %RH                              |
| Engineer               | Yohsuke Matsuzawa                              |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-160 (OFDMA) 26-tone RU, 6985 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |

Segment 1 / Index 36



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 52-tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 0 / Index 37

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 45.21          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 54.78           | -40.45              | -7.0        | 33.4        | 149         | 341          | -      |
| Hori.    | 5925.000        | AV       | 35.17          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.74           | -50.49              | -27.0       | 23.4        | 149         | 341          | -      |
| Vert.    | 5925.000        | PK       | 47.46          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.03           | -38.20              | -7.0        | 31.2        | 178         | 340          | -      |
| Vert.    | 5925.000        | AV       | 35.66          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.23           | -50.00              | -27.0       | 23.0        | 178         | 340          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

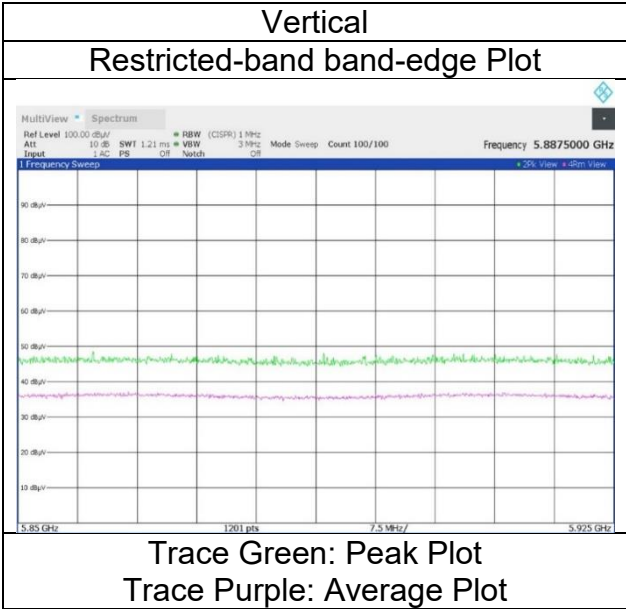
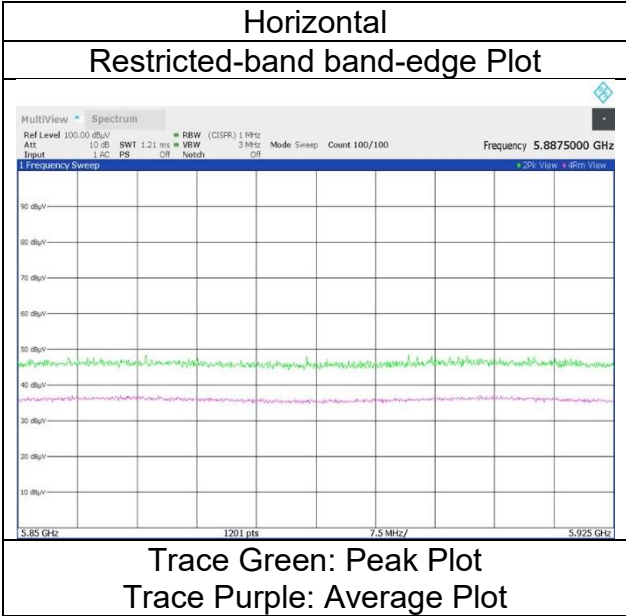
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

**Radiated Spurious Emission**

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 24, 2024                                   |
| Temperature / Humidity | 23 deg. C, 65 %RH                              |
| Engineer               | Yohsuke Matsuzawa                              |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-160 (OFDMA) 52-tone RU, 6025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |

Segment 0 / 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.

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 52-tone RU, 6985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 1 / Index 52

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 45.22          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.27           | -35.96              | -7.0        | 28.9        | 140         | 356          | -      |
| Hori.    | 7125.000        | AV       | 34.73          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 48.78           | -46.45              | -27.0       | 19.4        | 140         | 356          | -      |
| Vert.    | 7125.000        | PK       | 48.14          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 62.19           | -33.04              | -7.0        | 26.0        | 100         | 189          | -      |
| Vert.    | 7125.000        | AV       | 35.92          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.97           | -45.26              | -27.0       | 18.2        | 100         | 189          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

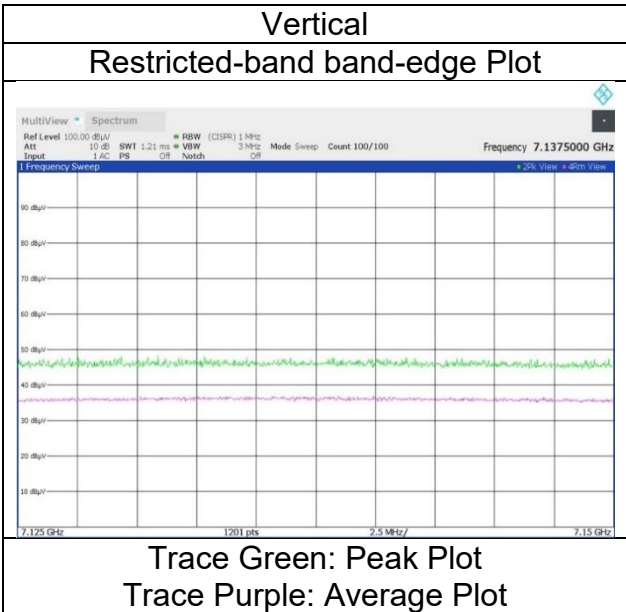
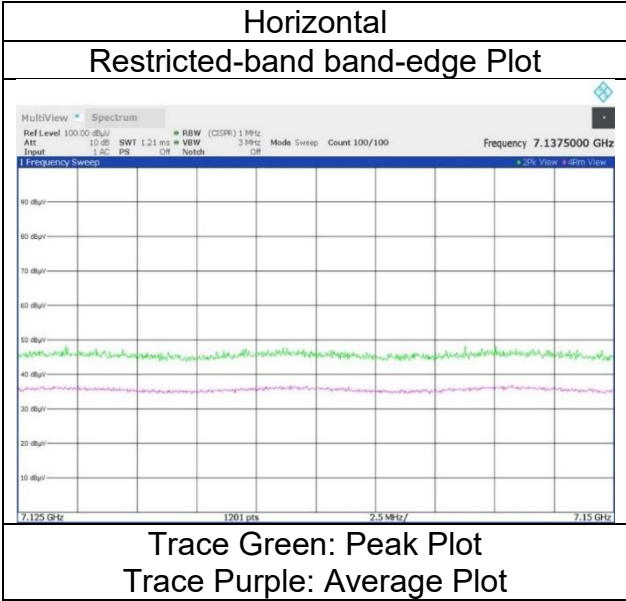
Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                                |
|------------------------|------------------------------------------------|
| Test place             | Shonan EMC Lab.                                |
| Semi Anechoic Chamber  | WAC1                                           |
| Date                   | May 24, 2024                                   |
| Temperature / Humidity | 23 deg. C, 65 %RH                              |
| Engineer               | Yohsuke Matsuzawa                              |
|                        | (1 GHz -10 GHz)                                |
| Mode                   | Tx 11ax-160 (OFDMA) 52-tone RU, 6985 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                |

Segment 1 / Index 52



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 106-tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 0 / Index 53

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 45.42          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 54.99           | -40.24              | -7.0        | 33.2        | 150         | 341          | -      |
| Hori.    | 5925.000        | AV       | 34.70          | 32.46           | -24.99    | -         | 0.25             | 2.10                 | 44.52           | -50.71              | -27.0       | 23.7        | 150         | 341          | -      |
| Vert.    | 5925.000        | PK       | 47.54          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.11           | -38.12              | -7.0        | 31.1        | 162         | 336          | -      |
| Vert.    | 5925.000        | AV       | 35.56          | 32.46           | -24.99    | -         | 0.25             | 2.10                 | 45.38           | -49.85              | -27.0       | 22.8        | 162         | 336          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

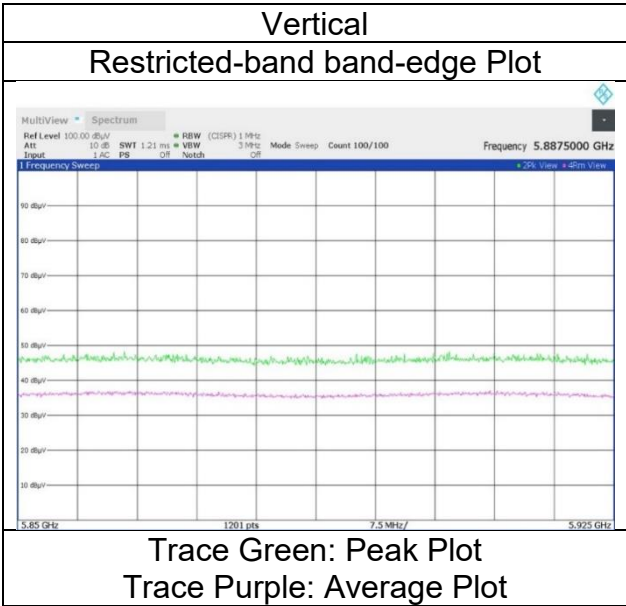
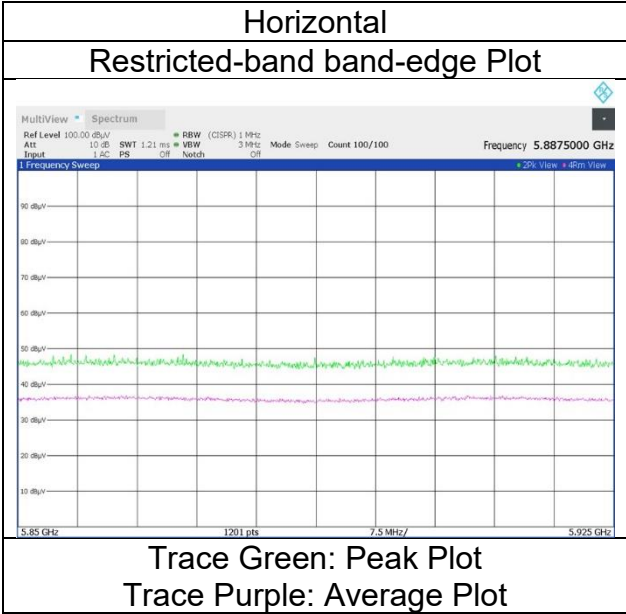
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

**Radiated Spurious Emission**

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Test place             | Shonan EMC Lab.                                 |
| Semi Anechoic Chamber  | WAC1                                            |
| Date                   | May 24, 2024                                    |
| Temperature / Humidity | 23 deg. C, 65 %RH                               |
| Engineer               | Yohsuke Matsuzawa                               |
|                        | (1 GHz -10 GHz)                                 |
| Mode                   | Tx 11ax-160 (OFDMA) 106-tone RU, 6025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |

Segment 0 / 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 106-tone RU, 6985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment / Index 60

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 45.78          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.83           | -35.40              | -7.0        | 28.4        | 100         | 358          | -      |
| Hori.    | 7125.000        | AV       | 34.93          | 36.14           | -24.19    | -         | 0.25             | 2.10                 | 49.23           | -46.00              | -27.0       | 19.0        | 100         | 358          | -      |
| Vert.    | 7125.000        | PK       | 47.49          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.54           | -33.69              | -7.0        | 26.6        | 174         | 197          | -      |
| Vert.    | 7125.000        | AV       | 35.74          | 36.14           | -24.19    | -         | 0.25             | 2.10                 | 50.04           | -45.19              | -27.0       | 18.1        | 174         | 197          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

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

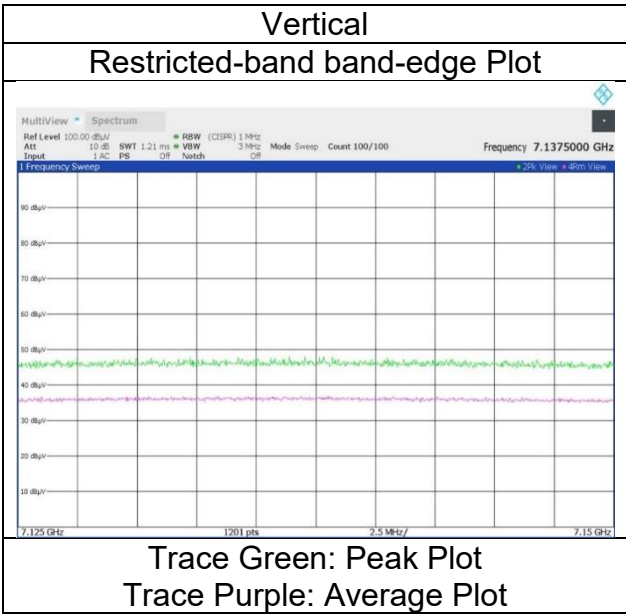
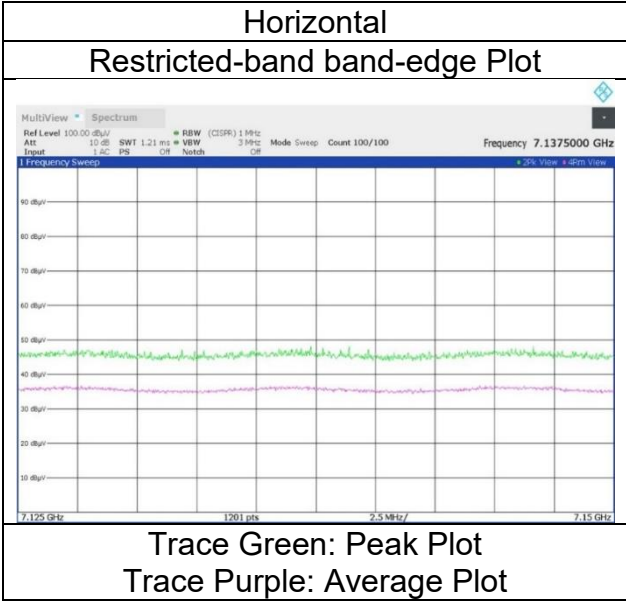
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Test place             | Shonan EMC Lab.                                 |
| Semi Anechoic Chamber  | WAC1                                            |
| Date                   | May 24, 2024                                    |
| Temperature / Humidity | 23 deg. C, 65 %RH                               |
| Engineer               | Yohsuke Matsuzawa                               |
|                        | (1 GHz -10 GHz)                                 |
| Mode                   | Tx 11ax-160 (OFDMA) 106-tone RU, 6985 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |

Segment 1 / Index 60



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 242-tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 0 / Index 61

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 45.45          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.02           | -40.21              | -7.0        | 33.2        | 150         | 344          | -      |
| Hori.    | 5925.000        | AV       | 35.18          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.75           | -50.48              | -27.0       | 23.4        | 150         | 344          | -      |
| Vert.    | 5925.000        | PK       | 48.16          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.73           | -37.50              | -7.0        | 30.5        | 151         | 338          | -      |
| Vert.    | 5925.000        | AV       | 35.47          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.04           | -50.19              | -27.0       | 23.1        | 151         | 338          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 \cdot 10^3$

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

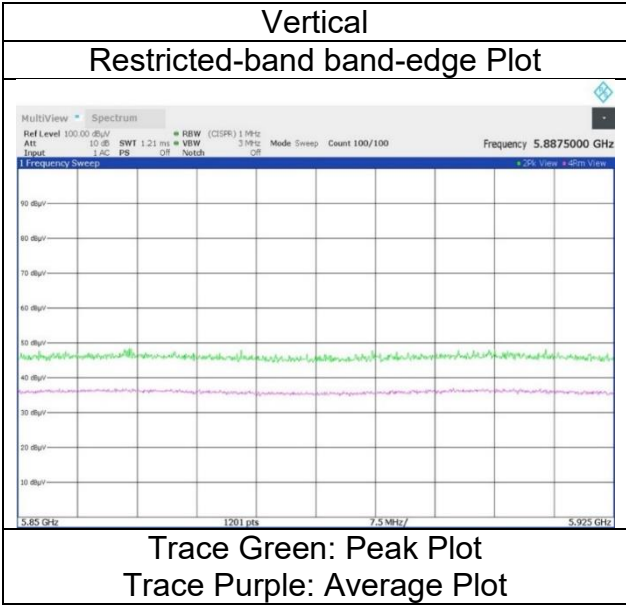
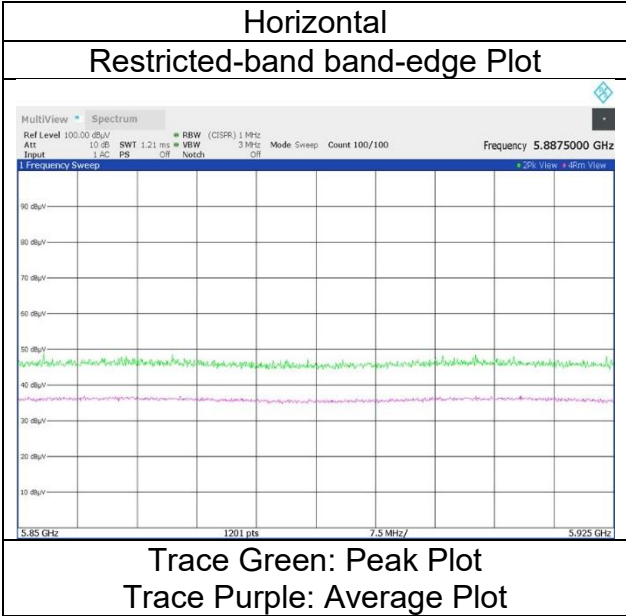
Distance factor : 1 GHz - 10 GHz :  $20\log (3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Test place             | Shonan EMC Lab.                                 |
| Semi Anechoic Chamber  | WAC1                                            |
| Date                   | May 24, 2024                                    |
| Temperature / Humidity | 23 deg. C, 65 %RH                               |
| Engineer               | Yohsuke Matsuzawa                               |
|                        | (1 GHz -10 GHz)                                 |
| Mode                   | Tx 11ax-160 (OFDMA) 242-tone RU, 6025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |

Segment 0 / 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 242-tone RU, 6985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 1 / Index 64

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 45.55          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.60           | -35.63              | -7.0        | 28.6        | 151         | 358          | -      |
| Hori.    | 7125.000        | AV       | 35.09          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.14           | -46.09              | -27.0       | 19.0        | 151         | 358          | -      |
| Vert.    | 7125.000        | PK       | 47.41          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.46           | -33.77              | -7.0        | 26.7        | 152         | 8            | -      |
| Vert.    | 7125.000        | AV       | 35.94          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.99           | -45.24              | -27.0       | 18.2        | 152         | 8            | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^{\frac{2}{30}} \cdot 10^3$

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

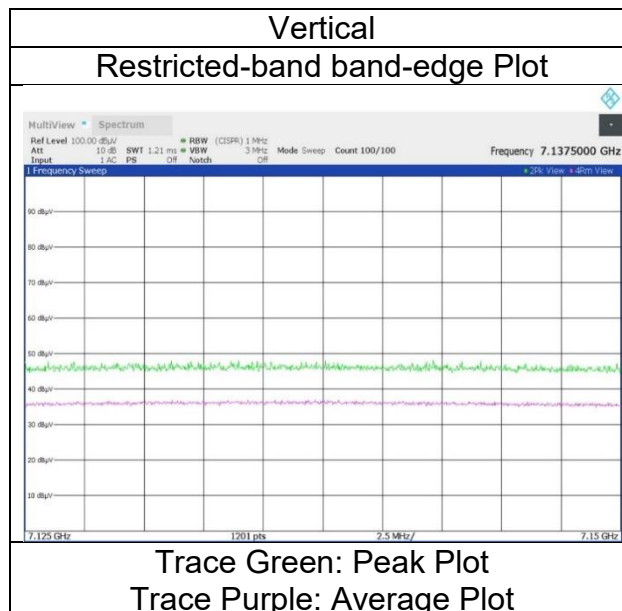
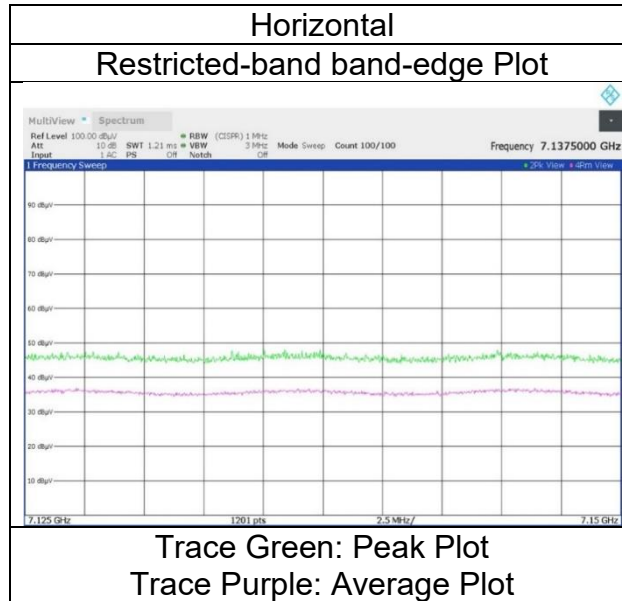
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 242-tone RU, 6985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

Segment 1 / Index 64



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 484-tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 0 / Index 65

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 45.01          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 54.58           | -40.65              | -7.0        | 33.6        | 150         | 342          | -      |
| Hori.    | 5925.000        | AV       | 34.65          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.22           | -51.01              | -27.0       | 24.0        | 150         | 342          | -      |
| Vert.    | 5925.000        | PK       | 47.29          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 56.86           | -38.37              | -7.0        | 31.3        | 170         | 340          | -      |
| Vert.    | 5925.000        | AV       | 35.71          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.28           | -49.95              | -27.0       | 22.9        | 170         | 340          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance} : 3 \text{ [m]} \right)^2 / 30 \cdot 10^3$

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

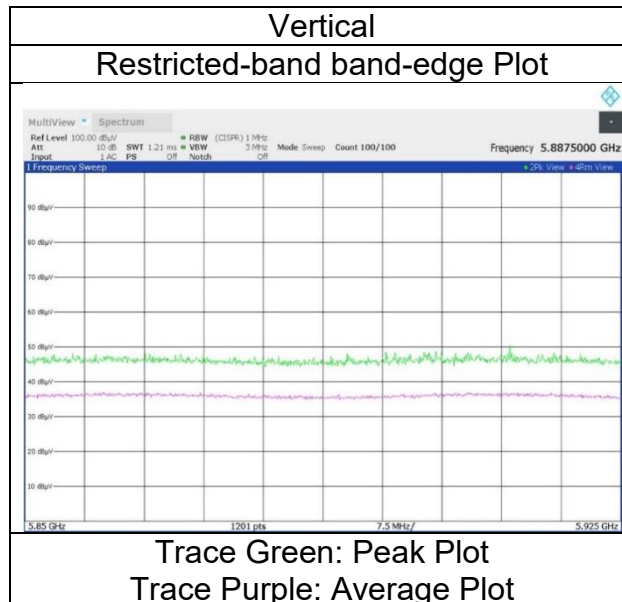
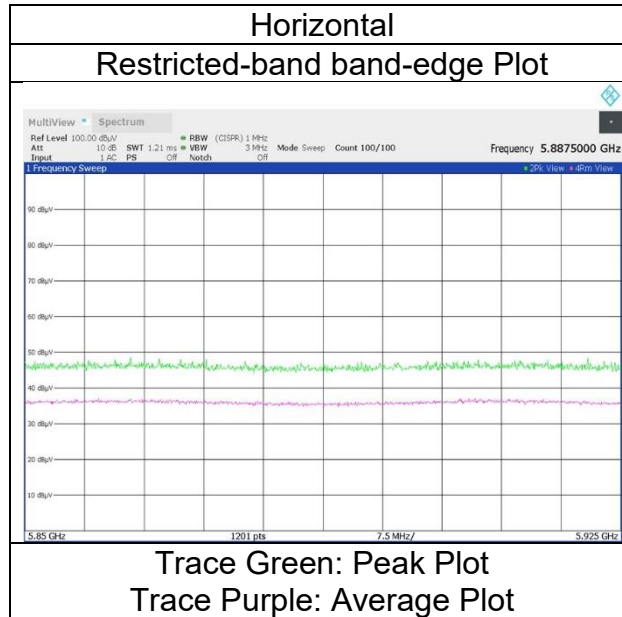
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 484-tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

Segment 0 / 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 484-tone RU, 6985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 1 / Index 66

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 46.24          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.29           | -34.94              | -7.0        | 27.9        | 150         | 358          | -      |
| Hori.    | 7125.000        | AV       | 34.51          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 48.56           | -46.67              | -27.0       | 19.6        | 150         | 358          | -      |
| Vert.    | 7125.000        | PK       | 47.15          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 61.20           | -34.03              | -7.0        | 27.0        | 191         | 9            | -      |
| Vert.    | 7125.000        | AV       | 35.45          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.50           | -45.73              | -27.0       | 18.7        | 191         | 9            | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \cdot 10^{-6} \cdot \text{Distance} : 3 \text{ [m]} \right)^2 / 30 \cdot 10^3$

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

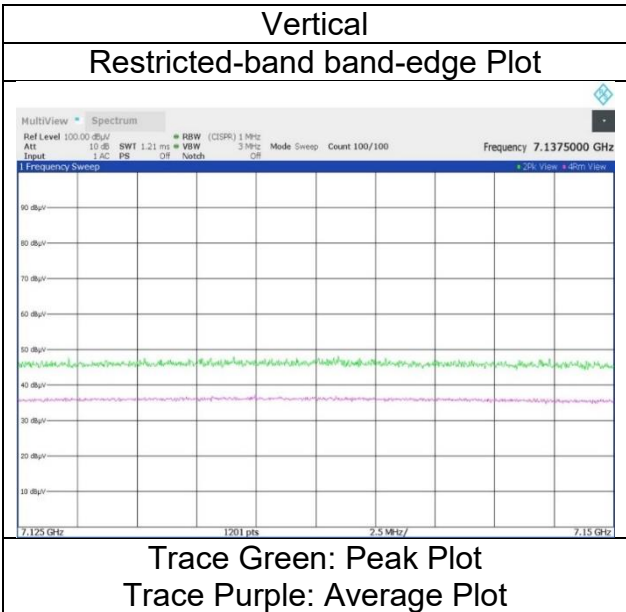
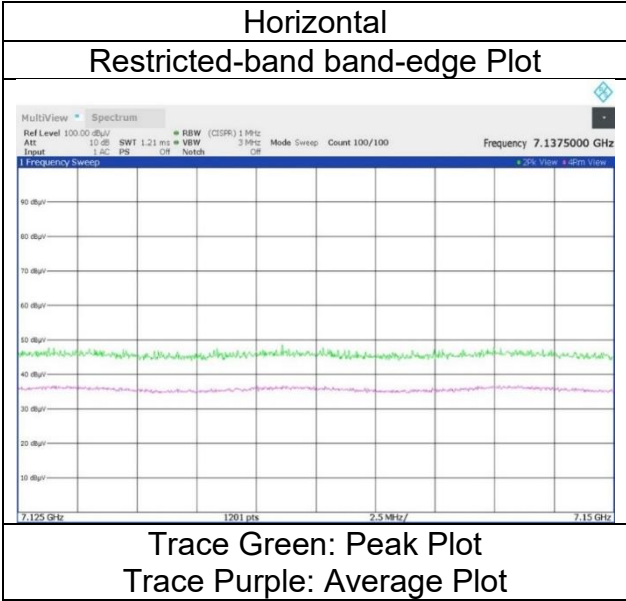
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Test place             | Shonan EMC Lab.                                 |
| Semi Anechoic Chamber  | WAC1                                            |
| Date                   | May 24, 2024                                    |
| Temperature / Humidity | 23 deg. C, 65 %RH                               |
| Engineer               | Yohsuke Matsuzawa                               |
|                        | (1 GHz -10 GHz)                                 |
| Mode                   | Tx 11ax-160 (OFDMA) 484-tone RU, 6985 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |

Segment 1 / Index 66



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1 WAC1 WAC1  
Date May 24, 2024 June 2, 2024 June 14, 2024 June 11, 2024  
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 24 deg. C, 66 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yohsuke Matsuzawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz)  
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole, 5G CH1: slot

### Segment 0 / Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 12050.000       | PK       | 47.56          | 38.65           | -25.63    | -         | -9.54                | 51.04           | 73.9           | 22.8        | 150         | 0            | Floor Noise |
| Hori.    | 18075.000       | PK       | 42.01          | 39.82           | 13.77     | 48.47     | -9.54                | 37.59           | 73.9           | 36.3        | 150         | 0            | Floor Noise |
| Hori.    | 12050.000       | AV       | 35.93          | 38.65           | -25.63    | -         | -9.54                | 39.41           | 53.9           | 14.4        | 150         | 0            | Floor Noise |
| Hori.    | 18075.000       | AV       | 30.28          | 39.82           | 13.77     | 48.47     | -9.54                | 25.86           | 53.9           | 28.0        | 150         | 0            | Floor Noise |
| Vert.    | 12050.000       | PK       | 47.51          | 38.65           | -25.63    | -         | -9.54                | 50.99           | 73.9           | 22.9        | 150         | 0            | Floor Noise |
| Vert.    | 18075.000       | PK       | 41.62          | 39.82           | 13.77     | 48.47     | -9.54                | 37.20           | 73.9           | 36.7        | 150         | 0            | Floor Noise |
| Vert.    | 12050.000       | AV       | 35.91          | 38.65           | -25.63    | -         | -9.54                | 39.39           | 53.9           | 14.5        | 150         | 0            | Floor Noise |
| Vert.    | 18075.000       | AV       | 30.09          | 39.82           | 13.77     | 48.47     | -9.54                | 25.67           | 53.9           | 28.2        | 150         | 0            | Floor Noise |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 48.62          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 58.19           | -37.04              | -7.0        | 30.0        | 149         | 342          | -      |
| Hori.    | 24100.000       | PK       | 42.33          | 40.49           | 16.04     | 46.90     | 0.00             | -9.54                | 42.42           | -52.81              | -7.0        | 45.8        | 163         | 195          | -      |
| Hori.    | 5925.000        | AV       | 36.12          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.69           | -49.54              | -27.0       | 22.5        | 149         | 342          | -      |
| Hori.    | 24100.000       | AV       | 31.93          | 40.49           | 16.04     | 46.90     | 0.00             | -9.54                | 32.02           | -63.21              | -27.0       | 36.2        | 163         | 195          | -      |
| Vert.    | 5925.000        | PK       | 50.18          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 59.75           | -35.48              | -7.0        | 28.4        | 177         | 336          | -      |
| Vert.    | 24100.000       | PK       | 41.69          | 40.49           | 16.04     | 46.90     | 0.00             | -9.54                | 41.78           | -53.45              | -7.0        | 46.4        | 174         | 245          | -      |
| Vert.    | 5925.000        | AV       | 35.64          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 45.21           | -50.02              | -27.0       | 23.0        | 177         | 336          | -      |
| Vert.    | 24100.000       | AV       | 30.36          | 40.49           | 16.04     | 46.90     | 0.00             | -9.54                | 30.45           | -64.78              | -27.0       | 37.7        | 174         | 245          | -      |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

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

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

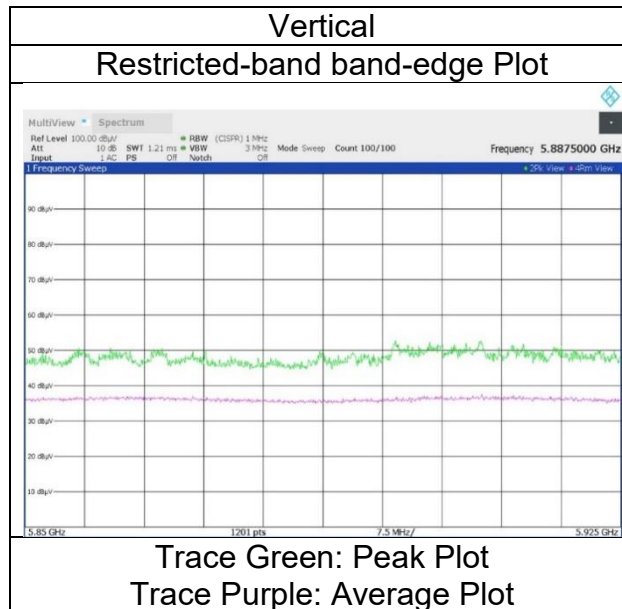
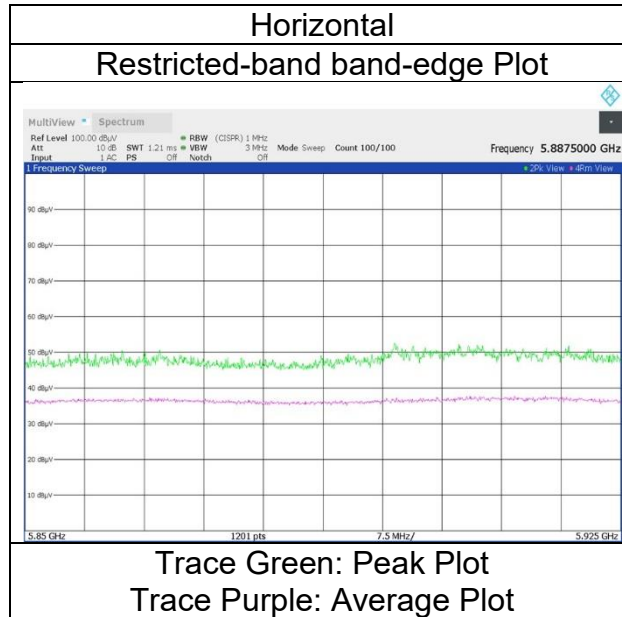
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

## Radiated Spurious Emission

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Test place             | Shonan EMC Lab.                                 |
| Semi Anechoic Chamber  | WAC1                                            |
| Date                   | May 24, 2024                                    |
| Temperature / Humidity | 23 deg. C, 65 %RH                               |
| Engineer               | Yohsuke Matsuzawa                               |
|                        | (1 GHz -10 GHz)                                 |
| Mode                   | Tx 11ax-160 (OFDMA) 996-tone RU, 6025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |

Segment 0 / Index 67



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1 WAC1 WAC1  
Date May 24, 2024 June 2, 2024 June 14, 2024 June 11, 2024  
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 24 deg. C, 66 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yohsuke Matsuzawa  
(1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)  
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6345 MHz (CDD)  
Antenna type 5G CH0: monopole, 5G CH1: slot

### Segment 1 / Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 12690.000       | PK       | 47.95          | 38.45           | -25.00    | -         | -9.54                | 51.86           | 73.9           | 22.0        | 150         | 0            | Floor Noise |
| Hori.    | 19035.000       | PK       | 41.45          | 40.28           | 14.16     | 47.92     | -9.54                | 38.43           | 73.9           | 35.4        | 150         | 0            | Floor Noise |
| Hori.    | 12690.000       | AV       | 35.92          | 38.45           | -25.00    | -         | -9.54                | 39.83           | 53.9           | 14.0        | 150         | 0            | Floor Noise |
| Hori.    | 19035.000       | AV       | 29.80          | 40.28           | 14.16     | 47.92     | -9.54                | 26.78           | 53.9           | 27.1        | 150         | 0            | Floor Noise |
| Vert.    | 12690.000       | PK       | 47.64          | 38.45           | -25.00    | -         | -9.54                | 51.55           | 73.9           | 22.3        | 150         | 0            | Floor Noise |
| Vert.    | 19035.000       | PK       | 42.01          | 40.28           | 14.16     | 47.92     | -9.54                | 38.99           | 73.9           | 34.9        | 150         | 0            | Floor Noise |
| Vert.    | 12690.000       | AV       | 35.76          | 38.45           | -25.00    | -         | -9.54                | 39.67           | 53.9           | 14.2        | 150         | 0            | Floor Noise |
| Vert.    | 19035.000       | AV       | 29.71          | 40.28           | 14.16     | 47.92     | -9.54                | 26.69           | 53.9           | 27.2        | 150         | 0            | Floor Noise |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 25380.000       | PK       | 43.56          | 40.80           | 16.69     | 47.32     | 0.00             | -9.54                | 44.19           | -51.04              | -7.0        | 44.0        | 188         | 204          | -      |
| Hori.    | 25380.000       | AV       | 33.10          | 40.80           | 16.69     | 47.32     | 0.00             | -9.54                | 33.73           | -61.50              | -27.0       | 34.5        | 188         | 204          | -      |
| Vert.    | 25380.000       | PK       | 42.94          | 40.80           | 16.69     | 47.32     | 0.00             | -9.54                | 43.57           | -51.66              | -7.0        | 44.6        | 181         | 254          | -      |
| Vert.    | 25380.000       | AV       | 32.28          | 40.80           | 16.69     | 47.32     | 0.00             | -9.54                | 32.91           | -62.32              | -27.0       | 35.3        | 181         | 254          | -      |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Result (EIRP) [dBm] =  $10 \times \text{LOG}((10 \wedge (\text{Electric Field Strength [dBuV/m]} / 20)) \times 10 \wedge (-6) \times \text{Distance} : 3 [\text{m}] \wedge 2 / 30 \times 10 \wedge 3)$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1 WAC1 WAC1  
Date May 24, 2024 June 2, 2024 June 14, 2024 June 10, 2024  
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 25 deg. C, 62 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yusuke Tanikawara  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz)  
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6505 MHz (CDD)  
Antenna type 5G CH0: monopole, 5G CH1: slot

### Segment 0 / Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 19515.000       | PK       | 41.67          | 40.42           | 14.41     | 47.68     | -9.54                | 39.28           | 73.9           | 34.6        | 150         | 0            | Floor Noise |
| Hori.    | 19515.000       | AV       | 29.84          | 40.42           | 14.41     | 47.68     | -9.54                | 27.45           | 53.9           | 26.4        | 150         | 0            | Floor Noise |
| Vert.    | 19515.000       | PK       | 42.13          | 40.42           | 14.41     | 47.68     | -9.54                | 39.74           | 73.9           | 34.1        | 150         | 0            | Floor Noise |
| Vert.    | 19515.000       | AV       | 29.83          | 40.42           | 14.41     | 47.68     | -9.54                | 27.44           | 53.9           | 26.4        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13010.000       | PK       | 48.35          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 52.76           | -42.47              | -7.0        | 35.4        | 150         | 0            | Floor Noise |
| Hori.    | 26020.000       | PK       | 45.85          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 46.95           | -48.28              | -7.0        | 41.2        | 202         | 202          | -           |
| Hori.    | 13010.000       | AV       | 36.15          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 40.56           | -54.67              | -27.0       | 27.6        | 150         | 0            | Floor Noise |
| Hori.    | 26020.000       | AV       | 36.67          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 37.77           | -57.46              | -27.0       | 30.4        | 202         | 202          | -           |
| Vert.    | 13010.000       | PK       | 48.01          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 52.42           | -42.81              | -7.0        | 35.8        | 150         | 0            | Floor Noise |
| Vert.    | 26020.000       | PK       | 44.38          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 45.48           | -49.75              | -7.0        | 42.7        | 175         | 273          | -           |
| Vert.    | 13010.000       | AV       | 36.19          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 40.60           | -54.63              | -27.0       | 27.6        | 150         | 0            | Floor Noise |
| Vert.    | 26020.000       | AV       | 33.95          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 35.05           | -60.18              | -27.0       | 33.1        | 175         | 273          | -           |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1 WAC1 WAC1  
Date May 24, 2024 June 2, 2024 June 14, 2024 June 11, 2024  
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 24 deg. C, 66 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yohsuke Matsuzawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz)  
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6505 MHz (CDD)  
Antenna type 5G CH0: monopole, 5G CH1: slot

### Segment 1 / Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 19515.000       | PK       | 41.54          | 40.42           | 14.41     | 47.68     | -9.54                | 39.15           | 73.9           | 34.7        | 150         | 197          | Floor Noise |
| Hori.    | 19515.000       | AV       | 29.77          | 40.42           | 14.41     | 47.68     | -9.54                | 27.38           | 53.9           | 26.5        | 150         | 197          | Floor Noise |
| Vert.    | 19515.000       | PK       | 41.24          | 40.42           | 14.41     | 47.68     | -9.54                | 38.85           | 73.9           | 35.0        | 150         | 0            | Floor Noise |
| Vert.    | 19515.000       | AV       | 29.78          | 40.42           | 14.41     | 47.68     | -9.54                | 27.39           | 53.9           | 26.5        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13010.000       | PK       | 47.53          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 51.94           | -43.29              | -7.0        | 36.2        | 150         | 0            | Floor Noise |
| Hori.    | 26020.000       | PK       | 45.39          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 46.49           | -48.74              | -7.0        | 41.7        | 206         | 207          | -           |
| Hori.    | 13010.000       | AV       | 36.07          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 40.48           | -54.75              | -27.0       | 27.7        | 150         | 0            | Floor Noise |
| Hori.    | 26020.000       | AV       | 36.13          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 37.23           | -58.00              | -27.0       | 31.0        | 206         | 207          | -           |
| Vert.    | 13010.000       | PK       | 48.07          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 52.48           | -42.75              | -7.0        | 35.7        | 150         | 0            | Floor Noise |
| Vert.    | 26020.000       | PK       | 44.44          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 45.54           | -49.69              | -7.0        | 42.6        | 175         | 273          | -           |
| Vert.    | 13010.000       | AV       | 36.01          | 38.82           | -24.87    | -         | 0.00             | -9.54                | 40.42           | -54.81              | -27.0       | 27.8        | 150         | 0            | Floor Noise |
| Vert.    | 26020.000       | AV       | 33.70          | 41.04           | 16.69     | 47.09     | 0.00             | -9.54                | 34.80           | -60.43              | -27.0       | 33.4        | 175         | 273          | -           |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG}((10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20)) \times 10^{\wedge}(-6) \times \text{Distance} : 3\text{ [m]})^{\wedge}2 / 30 \times 10^{\wedge}3)$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date June 10, 2024 WAC1  
Temperature / Humidity 24 deg. C, 65 %RH 23 deg. C, 65 %RH  
Engineer Yusuke Tanikawara Yohsuke Matsuzawa Makoto Hosaka  
(Below 1 GHz) (1 GHz -10 GHz) (10 GHz -18 GHz) (18 GHz -26.5 GHz) (26.5 GHz -40 GHz)  
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Segment 0 / Index 67

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 171.700         | QP       | 38.40          | 12.65           | 7.32      | 33.01     | 0.00                 | 25.36           | 43.5           | 18.1        | 178         | 115          | -           |
| Hori.    | 497.914         | QP       | 36.30          | 17.73           | 8.04      | 32.18     | 0.00                 | 29.89           | 46.0           | 16.1        | 100         | 296          | -           |
| Hori.    | 564.773         | QP       | 36.90          | 18.11           | 8.18      | 31.99     | 0.00                 | 31.20           | 46.0           | 14.8        | 173         | 211          | -           |
| Hori.    | 799.725         | QP       | 30.20          | 20.68           | 8.72      | 31.05     | 0.00                 | 28.55           | 46.0           | 17.4        | 100         | 202          | -           |
| Hori.    | 815.218         | QP       | 24.20          | 20.76           | 8.74      | 30.99     | 0.00                 | 22.71           | 46.0           | 23.2        | 148         | 192          | -           |
| Hori.    | 13330.000       | PK       | 47.61          | 39.03           | -24.71    | -         | -9.54                | 52.39           | 73.9           | 21.5        | 150         | 0            | Floor Noise |
| Hori.    | 19995.000       | PK       | 41.11          | 40.32           | 14.45     | 47.58     | -9.54                | 38.76           | 73.9           | 35.1        | 150         | 0            | Floor Noise |
| Hori.    | 13330.000       | AV       | 35.41          | 39.03           | -24.71    | -         | -9.54                | 40.19           | 53.9           | 13.7        | 150         | 0            | Floor Noise |
| Hori.    | 19995.000       | AV       | 29.43          | 40.32           | 14.45     | 47.58     | -9.54                | 27.08           | 53.9           | 26.8        | 150         | 0            | Floor Noise |
| Vert.    | 91.065          | QP       | 43.10          | 9.20            | 6.92      | 33.09     | 0.00                 | 26.13           | 43.5           | 17.3        | 100         | 209          | -           |
| Vert.    | 170.504         | QP       | 37.60          | 12.63           | 7.31      | 33.01     | 0.00                 | 24.53           | 43.5           | 18.9        | 100         | 356          | -           |
| Vert.    | 252.501         | QP       | 41.90          | 11.80           | 7.36      | 32.82     | 0.00                 | 28.24           | 46.0           | 17.7        | 100         | 37           | -           |
| Vert.    | 521.159         | QP       | 30.10          | 17.57           | 8.09      | 32.11     | 0.00                 | 23.65           | 46.0           | 22.3        | 100         | 186          | -           |
| Vert.    | 557.814         | QP       | 38.10          | 17.84           | 8.16      | 32.00     | 0.00                 | 32.10           | 46.0           | 13.9        | 100         | 192          | -           |
| Vert.    | 13330.000       | PK       | 47.89          | 39.03           | -24.71    | -         | -9.54                | 52.67           | 73.9           | 21.2        | 150         | 0            | Floor Noise |
| Vert.    | 19995.000       | PK       | 40.95          | 40.32           | 14.45     | 47.58     | -9.54                | 38.60           | 73.9           | 35.3        | 150         | 0            | Floor Noise |
| Vert.    | 13330.000       | AV       | 35.54          | 39.03           | -24.71    | -         | -9.54                | 40.32           | 53.9           | 13.5        | 150         | 0            | Floor Noise |
| Vert.    | 19995.000       | AV       | 29.35          | 40.32           | 14.45     | 47.58     | -9.54                | 27.00           | 53.9           | 26.9        | 150         | 0            | Floor Noise |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 26660.000       | PK       | 54.93          | 43.20           | 17.03     | 60.18     | 0.00             | -9.54                | 45.44           | -49.79              | -7.0        | 42.7        | 173         | 223          | -      |
| Hori.    | 26660.000       | AV       | 48.84          | 43.20           | 17.03     | 60.18     | 0.00             | -9.54                | 39.35           | -55.88              | -27.0       | 28.8        | 173         | 223          | -      |
| Vert.    | 26660.000       | PK       | 54.78          | 43.20           | 17.03     | 60.18     | 0.00             | -9.54                | 45.29           | -49.94              | -7.0        | 42.9        | 175         | 267          | -      |
| Vert.    | 26660.000       | AV       | 47.12          | 43.20           | 17.03     | 60.18     | 0.00             | -9.54                | 37.63           | -57.60              | -27.0       | 30.6        | 175         | 267          | -      |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1 WAC1 WAC1 WAC1  
Date May 24, 2024 June 2, 2024 June 14, 2024 June 11, 2024  
Temperature / Humidity 23 deg. C, 65 %RH 23 deg. C, 62 %RH 24 deg. C, 63 %RH 24 deg. C, 66 %RH  
Engineer Yohsuke Matsuzawa Makoto Hosaka Hiromasa Sato Yohsuke Matsuzawa  
(1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz)  
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6825 MHz (CDD)  
Antenna type 5G CH0: monopole, 5G CH1: slot

### Segment 1 / Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 20475.000       | PK       | 40.95          | 40.22           | 14.81     | 47.27     | -9.54                | 39.17           | 73.9           | 34.7        | 150         | 0            | Floor Noise |
| Hori.    | 20475.000       | AV       | 29.21          | 40.22           | 14.81     | 47.27     | -9.54                | 27.43           | 53.9           | 26.4        | 150         | 0            | Floor Noise |
| Vert.    | 20475.000       | PK       | 40.93          | 40.22           | 14.81     | 47.27     | -9.54                | 39.15           | 73.9           | 34.7        | 150         | 0            | Floor Noise |
| Vert.    | 20475.000       | AV       | 29.18          | 40.22           | 14.81     | 47.27     | -9.54                | 27.40           | 53.9           | 26.5        | 150         | 0            | Floor Noise |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13650.000       | PK       | 48.19          | 39.10           | -24.67    | -         | 0.00             | -9.54                | 53.08           | -42.15              | -7.0        | 35.1        | 150         | 0            | Floor Noise |
| Hori.    | 27300.000       | PK       | 54.68          | 43.42           | 17.31     | 60.62     | 0.00             | -9.54                | 45.25           | -49.98              | -7.0        | 42.9        | 154         | 218          | -           |
| Hori.    | 13650.000       | AV       | 35.88          | 39.10           | -24.67    | -         | 0.00             | -9.54                | 40.77           | -54.46              | -27.0       | 27.4        | 150         | 0            | Floor Noise |
| Hori.    | 27300.000       | AV       | 47.27          | 43.42           | 17.31     | 60.62     | 0.00             | -9.54                | 37.84           | -57.39              | -27.0       | 30.3        | 154         | 218          | -           |
| Vert.    | 13650.000       | PK       | 47.73          | 39.10           | -24.67    | -         | 0.00             | -9.54                | 52.62           | -42.61              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Vert.    | 27300.000       | PK       | 51.90          | 43.42           | 17.31     | 60.62     | 0.00             | -9.54                | 42.47           | -52.76              | -7.0        | 45.7        | 175         | 246          | -           |
| Vert.    | 13650.000       | AV       | 35.90          | 39.10           | -24.67    | -         | 0.00             | -9.54                | 40.79           | -54.44              | -27.0       | 27.4        | 150         | 0            | Floor Noise |
| Vert.    | 27300.000       | AV       | 44.57          | 43.42           | 17.31     | 60.62     | 0.00             | -9.54                | 35.14           | -60.09              | -27.0       | 33.0        | 175         | 246          | -           |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Result (EIRP) [dBm] =  $10 \times \log((10 \wedge (\text{Electric Field Strength [dBuV/m]} / 20)) \times 10 \wedge (-6) \times \text{Distance} : 3 [\text{m}]) \wedge 2 / 30 \times 10 \wedge 3)$

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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

## Radiated Spurious Emission

|                        |                                                 |                   |                    |                    |
|------------------------|-------------------------------------------------|-------------------|--------------------|--------------------|
| Test place             | Shonan EMC Lab.                                 |                   |                    |                    |
| Semi Anechoic Chamber  | WAC1                                            | WAC1              | WAC1               | WAC1               |
| Date                   | May 24, 2024                                    | June 2, 2024      | June 14, 2024      | June 11, 2024      |
| Temperature / Humidity | 23 deg. C, 65 %RH                               | 23 deg. C, 62 %RH | 24 deg. C, 63 %RH  | 24 deg. C, 66 %RH  |
| Engineer               | Yohsuke Matsuzawa                               | Makoto Hosaka     | Hiromasa Sato      | Yohsuke Matsuzawa  |
|                        | (1 GHz -10 GHz)                                 | (10 GHz -18 GHz)  | (18 GHz -26.5 GHz) | (26.5 GHz -40 GHz) |
| Mode                   | Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD) |                   |                    |                    |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |                   |                    |                    |

### Segment 0 / Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 20955.000       | PK       | 41.98          | 40.21           | 14.99     | 47.17     | -9.54                | 40.47           | 73.9           | 33.4        | 150         | 0            | Floor Noise |
| Hori.    | 20955.000       | AV       | 30.30          | 40.21           | 14.99     | 47.17     | -9.54                | 28.79           | 53.9           | <b>25.1</b> | 150         | 0            | Floor Noise |
| Vert.    | 20955.000       | PK       | 40.93          | 40.21           | 14.99     | 47.17     | -9.54                | 39.42           | 73.9           | 34.4        | 150         | 0            | Floor Noise |
| Vert.    | 20955.000       | AV       | 30.13          | 40.21           | 14.99     | 47.17     | -9.54                | 28.62           | 53.9           | 25.2        | 150         | 0            | Floor Noise |

1 GHz - 18 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor  
 Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor  
 Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$   
 10 GHz - 40 GHz :  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 13970.000       | PK       | 47.87          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 52.63           | -42.60              | -7.0        | 35.6        | 150         | 0            | Floor Noise |
| Hori.    | 27940.000       | PK       | 53.58          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 44.20           | -51.03              | -7.0        | 44.0        | 161         | 194          | -           |
| Hori.    | 13970.000       | AV       | 36.25          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 41.01           | -54.22              | -27.0       | 27.2        | 150         | 0            | Floor Noise |
| Hori.    | 27940.000       | AV       | 47.36          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 37.98           | -57.25              | -27.0       | 30.2        | 161         | 194          | -           |
| Vert.    | 13970.000       | PK       | 47.75          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 52.51           | -42.72              | -7.0        | 35.7        | 150         | 0            | Floor Noise |
| Vert.    | 27940.000       | PK       | 53.29          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 43.91           | -51.32              | -7.0        | 44.3        | 169         | 247          | -           |
| Vert.    | 13970.000       | AV       | 36.18          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 40.94           | -54.29              | -27.0       | 27.2        | 150         | 0            | Floor Noise |
| Vert.    | 27940.000       | AV       | 44.24          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 34.86           | -60.37              | -27.0       | 33.3        | 169         | 247          | -           |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor  
 Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor  
 Result (AV) [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Duty factor + Distance factor  
 Result (EIRP [dBm]) =  $10 * \log(10^{\wedge}(\text{Electric Field Strength [dBuV/m]} / 20) * 10^{\wedge}(-6) * \text{Distance : 3 [m]} )^{\wedge}2 / 30 * 10^{\wedge}3)$   
 \*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).  
 Distance factor : 1 GHz - 10 GHz :  $20\log(3.820\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$   
 10 GHz - 40 GHz :  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

## Radiated Spurious Emission

|                        |                                                 |                   |                    |                    |
|------------------------|-------------------------------------------------|-------------------|--------------------|--------------------|
| Test place             | Shonan EMC Lab.                                 |                   |                    |                    |
| Semi Anechoic Chamber  | WAC1                                            | WAC1              | WAC1               | WAC1               |
| Date                   | May 24, 2024                                    | June 2, 2024      | June 14, 2024      | June 11, 2024      |
| Temperature / Humidity | 23 deg. C, 65 %RH                               | 23 deg. C, 62 %RH | 24 deg. C, 63 %RH  | 24 deg. C, 66 %RH  |
| Engineer               | Yohsuke Matsuzawa                               | Makoto Hosaka     | Hiromasa Sato      | Yohsuke Matsuzawa  |
|                        | (1 GHz -10 GHz)                                 | (10 GHz -18 GHz)  | (18 GHz -26.5 GHz) | (26.5 GHz -40 GHz) |
| Mode                   | Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD) |                   |                    |                    |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |                   |                    |                    |

### Segment 1 / Index 67

#### (above 1 GHz Inside of the restricted band)

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Distance Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|----------------|-------------|-------------|--------------|-------------|
| Hori.    | 20955.000       | PK       | 41.55          | 40.21           | 14.99     | 47.17     | -9.54                | 40.04           | 73.9           | 33.8        | 150         | 0            | Floor Noise |
| Hori.    | 20955.000       | AV       | 30.22          | 40.21           | 14.99     | 47.17     | -9.54                | 28.71           | 53.9           | 25.1        | 150         | 0            | Floor Noise |
| Vert.    | 20955.000       | PK       | 41.30          | 40.21           | 14.99     | 47.17     | -9.54                | 39.79           | 73.9           | 34.1        | 150         | 0            | Floor Noise |
| Vert.    | 20955.000       | AV       | 30.00          | 40.21           | 14.99     | 47.17     | -9.54                | 28.49           | 53.9           | 25.4        | 150         | 0            | Floor Noise |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark      |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|-------------|
| Hori.    | 7125.000        | PK       | 46.14          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.19           | -35.04              | -7.0        | 28.0        | 159         | 357          | -           |
| Hori.    | 13970.000       | PK       | 48.02          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 52.78           | -42.45              | -7.0        | 35.4        | 150         | 0            | Floor Noise |
| Hori.    | 27940.000       | PK       | 54.14          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 44.76           | -50.47              | -7.0        | 43.4        | 159         | 194          | -           |
| Hori.    | 7125.000        | AV       | 35.58          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.63           | -45.60              | -27.0       | 18.6        | 159         | 357          | -           |
| Hori.    | 13970.000       | AV       | 36.34          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 41.10           | -54.13              | -27.0       | 27.1        | 150         | 0            | Floor Noise |
| Hori.    | 27940.000       | AV       | 47.12          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 37.74           | -57.49              | -27.0       | 30.4        | 159         | 194          | -           |
| Vert.    | 7125.000        | PK       | 45.99          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 60.04           | -35.19              | -7.0        | 28.1        | 172         | 123          | -           |
| Vert.    | 13970.000       | PK       | 48.31          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 53.07           | -42.16              | -7.0        | 35.1        | 150         | 0            | Floor Noise |
| Vert.    | 27940.000       | PK       | 52.53          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 43.15           | -52.08              | -7.0        | 45.0        | 140         | 248          | -           |
| Vert.    | 7125.000        | AV       | 35.32          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.37           | -45.86              | -27.0       | 18.8        | 172         | 123          | -           |
| Vert.    | 13970.000       | AV       | 36.42          | 39.06           | -24.76    | -         | 0.00             | -9.54                | 41.18           | -54.05              | -27.0       | 27.0        | 150         | 0            | Floor Noise |
| Vert.    | 27940.000       | AV       | 44.03          | 43.64           | 17.58     | 61.06     | 0.00             | -9.54                | 34.65           | -60.58              | -27.0       | 33.5        | 140         | 248          | -           |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor

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

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

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

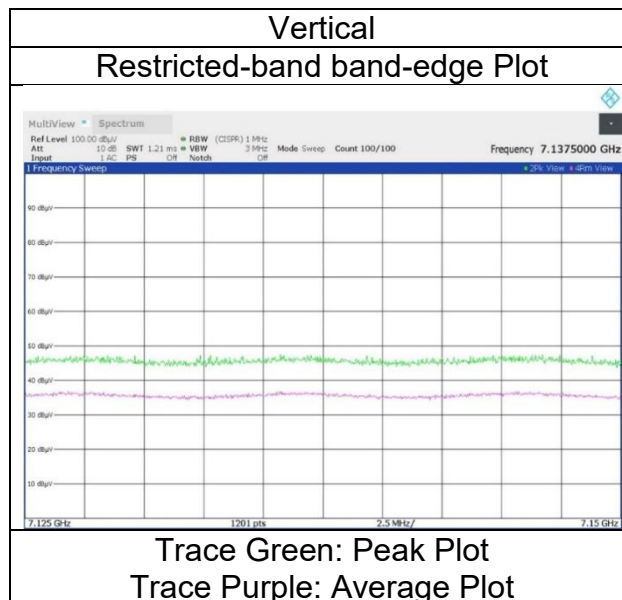
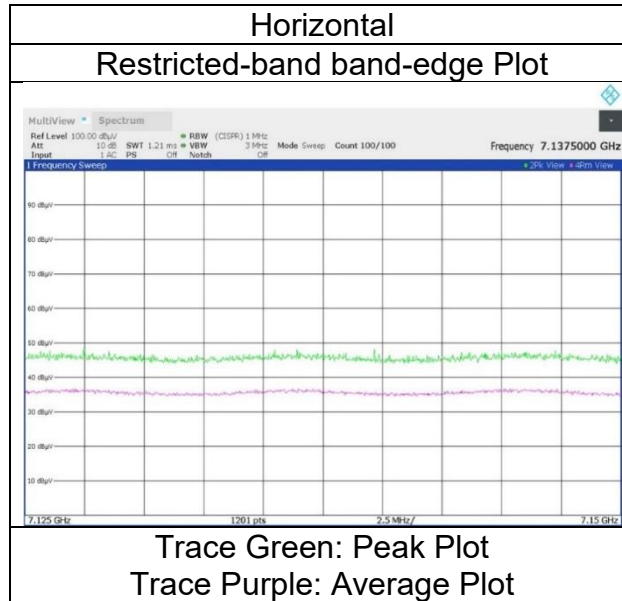
Distance factor : 1 GHz - 10 GHz : 20log (3.820 m / 3.0 m) = 2.10 dB

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

## Radiated Spurious Emission

Test place                      Shonan EMC Lab.  
Semi Anechoic Chamber      WAC1  
Date                              May 24, 2024  
Temperature / Humidity        23 deg. C, 65 %RH  
Engineer                        Yohsuke Matsuzawa  
                                      (1 GHz -10 GHz)  
Mode                              Tx 11ax-160 (OFDMA) 996-tone RU, 6985 MHz (CDD)  
Antenna type                    5G CH0: monopole , 5G CH1: slot

Segment 1 / Index 67



\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 2×996 -tone RU, 6025 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Index 68

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5925.000        | PK       | 47.87          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 57.44           | -37.79              | -7.0        | 30.7        | 104         | 343          | -      |
| Hori.    | 5925.000        | AV       | 36.52          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 46.09           | -49.14              | -27.0       | 22.1        | 104         | 343          | -      |
| Vert.    | 5925.000        | PK       | 46.23          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 55.80           | -39.43              | -7.0        | 32.4        | 195         | 338          | -      |
| Vert.    | 5925.000        | AV       | 35.35          | 32.46           | -24.99    | -         | 0.00             | 2.10                 | 44.92           | -50.31              | -27.0       | 23.3        | 195         | 338          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]} \right)^2 / 30 \cdot 10^3$

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

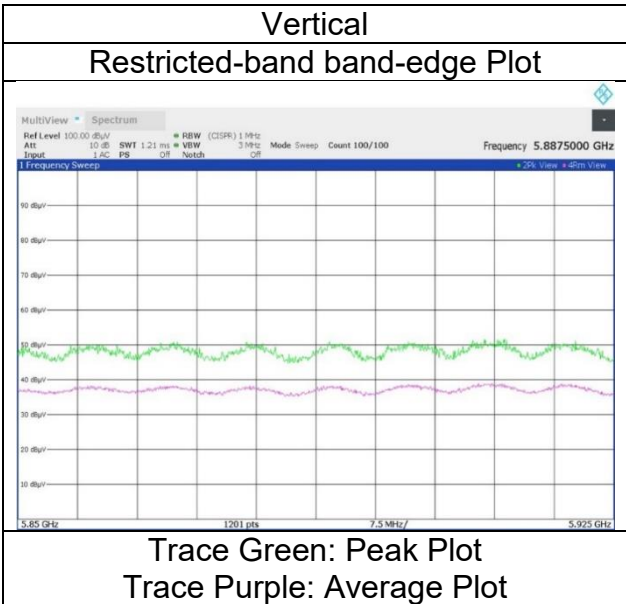
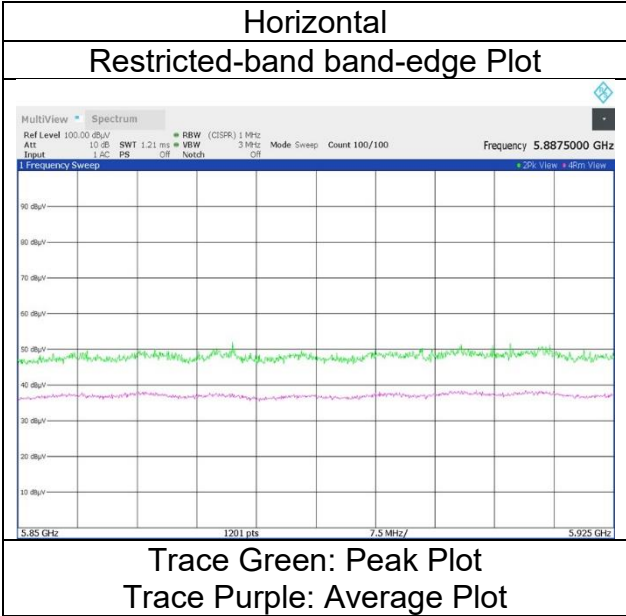
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                                    |
|------------------------|----------------------------------------------------|
| Test place             | Shonan EMC Lab.                                    |
| Semi Anechoic Chamber  | WAC1                                               |
| Date                   | May 24, 2024                                       |
| Temperature / Humidity | 23 deg. C, 65 %RH                                  |
| Engineer               | Yohsuke Matsuzawa                                  |
|                        | (1 GHz -10 GHz)                                    |
| Mode                   | Tx 11ax-160 (OFDMA) 2×996 -tone RU, 6025 MHz (CDD) |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                    |

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\* 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

Test place Shonan EMC Lab.  
Semi Anechoic Chamber WAC1  
Date May 24, 2024  
Temperature / Humidity 23 deg. C, 65 %RH  
Engineer Yohsuke Matsuzawa  
(1 GHz -10 GHz)  
Mode Tx 11ax-160 (OFDMA) 2×996 -tone RU, 6985 MHz (CDD)  
Antenna type 5G CH0: monopole , 5G CH1: slot

### Index 68

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

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

| Polarity | Frequency [MHz] | Detector | Reading [dBuV] | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Duty Factor [dB] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|------------------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7125.000        | PK       | 45.31          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.36           | -35.87              | -7.0        | 28.8        | 149         | 356          | -      |
| Hori.    | 7125.000        | AV       | 35.00          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.05           | -46.18              | -27.0       | 19.1        | 149         | 356          | -      |
| Vert.    | 7125.000        | PK       | 45.51          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 59.56           | -35.67              | -7.0        | 28.6        | 149         | 196          | -      |
| Vert.    | 7125.000        | AV       | 35.37          | 36.14           | -24.19    | -         | 0.00             | 2.10                 | 49.42           | -45.81              | -27.0       | 18.8        | 149         | 196          | -      |

Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor

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

Result (EIRP [dBm]) =  $10 \times \text{LOG} \left( \left( 10^{\frac{\text{Electric Field Strength [dBuV/m]}{20}} \right)^2 \times 10^{-6} \times \text{Distance : 3 [m]} \right)^2 / 30 \times 10^3$

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

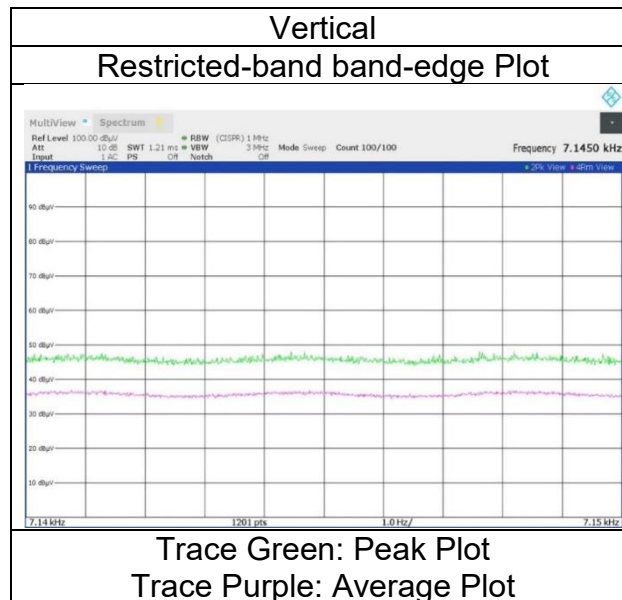
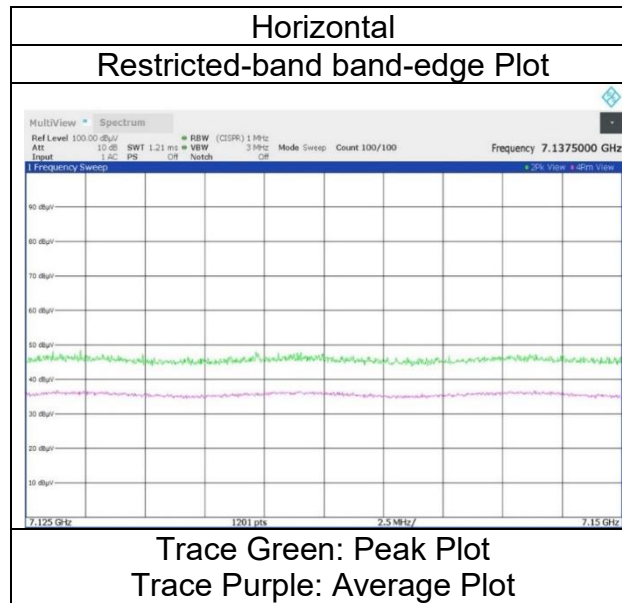
Distance factor : 1 GHz - 10 GHz :  $20\log(3.820 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

## Radiated Spurious Emission

Test place                      WAC1  
Semi Anechoic Chamber      May 24, 2024  
Date                              23 deg. C, 65 %RH  
Temperature / Humidity      Yohsuke Matsuzawa  
Engineer                        (1 GHz -10 GHz)  
Mode                              Tx 11ax-160 (OFDMA) 2x996 -tone RU, 6985 MHz (CDD)  
Antenna type                    5G CH0: monopole , 5G CH1: slot

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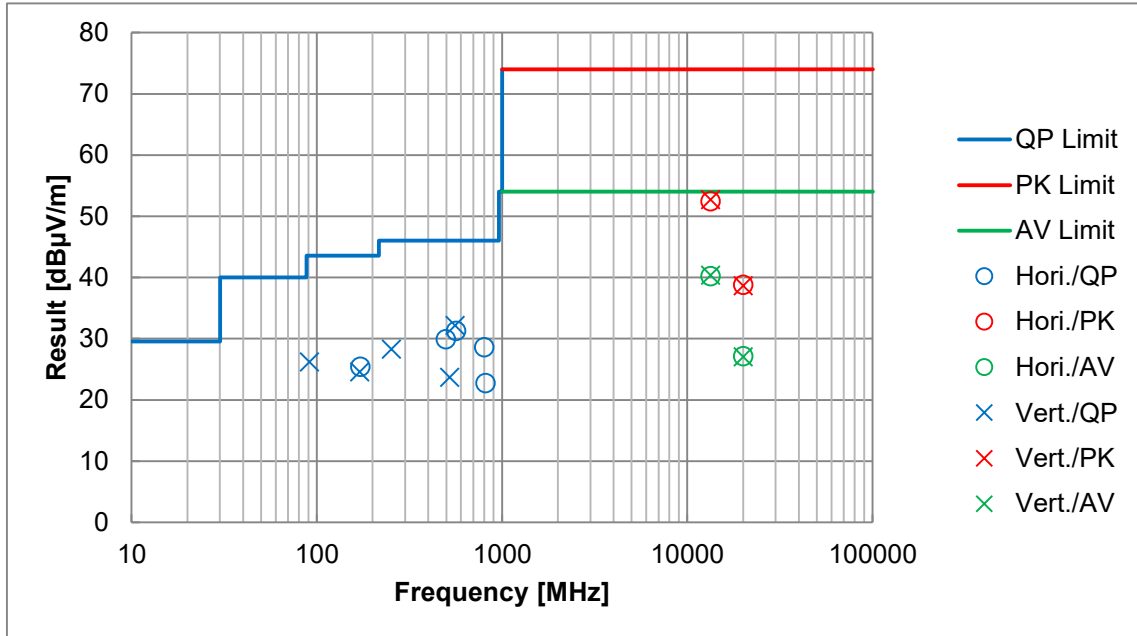


\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

**Radiated Spurious Emission**  
**(Plot data, Worst case mode for Maximum Conducted Output Power)**

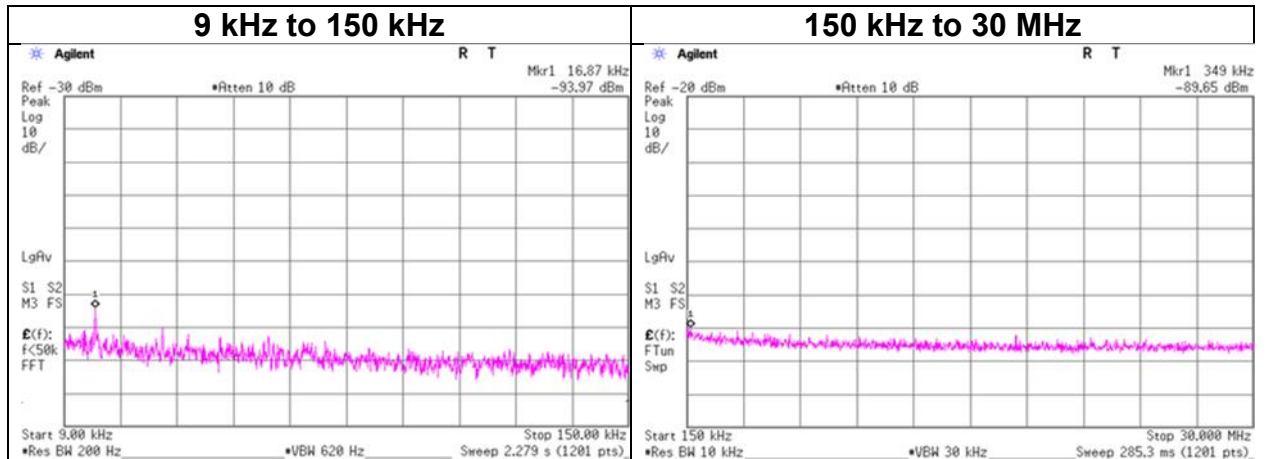
|                        |                                                 |                   |                   |                    |                    |
|------------------------|-------------------------------------------------|-------------------|-------------------|--------------------|--------------------|
| Test place             | Shonan EMC Lab.                                 |                   |                   |                    |                    |
| Semi Anechoic Chamber  | WAC1                                            | WAC1              | WAC1              | WAC1               | WAC1               |
| Date                   | June 10, 2024                                   | May 24, 2024      | June 2, 2024      | June 14, 2024      | June 10, 2024      |
| Temperature / Humidity | 24 deg. C, 65 %RH                               | 23 deg. C, 65 %RH | 23 deg. C, 62 %RH | 24 deg. C, 63 %RH  | 25 deg. C, 62 %RH  |
| Engineer               | Yusuke Tanikawara                               | Yohsuke Matsuzawa | Makoto Hosaka     | Hiromasa Sato      | Yusuke Tanikawara  |
|                        | (Below 1 GHz)                                   | (1 GHz -10 GHz)   | (10 GHz -18 GHz)  | (18 GHz -26.5 GHz) | (26.5 GHz -40 GHz) |
| Mode                   | Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD) |                   |                   |                    |                    |
| Antenna type           | 5G CH0: monopole , 5G CH1: slot                 |                   |                   |                    |                    |



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

## Conducted Spurious Emission

Test place Shonan EMC Lab. No.8 Shielded Room  
Date June 24, 2015  
Temperature / Humidity 25 deg. C / 55 % RH  
Engineer Yohsuke Matsuzawa  
Mode Tx 11ax-160 (OFDMA) 996-tone RU, 6665 MHz (CDD)



| Frequency<br>[kHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Attenuator<br>Loss<br>[dB] | Antenna<br>Gain *<br>[dBi] | N<br>(Number<br>of Output) | EIRP<br>[dBm] | Distance<br>[m] | Ground<br>bounce<br>[dB] | E<br>(field strength)<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Remark |
|--------------------|------------------|-----------------------|----------------------------|----------------------------|----------------------------|---------------|-----------------|--------------------------|-----------------------------------|-------------------|----------------|--------|
| 16.87              | -94.0            | 0.01                  | 9.83                       | 2.0                        | 1.0                        | -82.1         | 300             | 6.0                      | -20.9                             | 43.0              | 63.9           | -      |
| 349.00             | -89.7            | 0.01                  | 9.83                       | 2.0                        | 1.0                        | -77.8         | 300             | 6.0                      | -16.6                             | 16.7              | 33.3           | -      |

$E [dBuV/m] = EIRP [dBm] - 20 \log (Distance [m]) + Ground\ bounce [dB] + 104.8 [dBuV/m]$

$EIRP[dBm] = Reading [dBm] + Cable\ loss [dB] + Attenuator\ Loss [dB] + Antenna\ gain [dBi] + 10 * \log (N)$

N: Number of output

## APPENDIX 2: Test Instruments

### Test Equipment (1/3)

| Test Item | LIMS ID | Description        | Manufacturer                      | Model                  | Serial          | Last Calibration Date | Cal Int |
|-----------|---------|--------------------|-----------------------------------|------------------------|-----------------|-----------------------|---------|
| AT        | 145113  | Digital Multimeter | Agilent Technologies              | U1251A                 | TW46350095      | 2023/09/25            | 12      |
| AT        | 145745  | Terminator         | TME                               | CT-01 BP               | -               | 2023/12/08            | 12      |
| AT        | 145800  | Spectrum Analyzer  | Keysight Technologies Inc         | E4448A                 | MY48250106      | 2024/03/25            | 12      |
| AT        | 146190  | Terminator         | TME                               | CT-01 BP               | -               | 2023/12/08            | 12      |
| AT        | 146212  | Digital Hitester   | HIOKI E.E. CORPORATION            | 3805-50                | 80997828        | 2023/09/25            | 12      |
| AT        | 146223  | Spectrum Analyzer  | Keysight Technologies Inc         | N9010A-526             | MY48031482      | 2023/10/07            | 12      |
| AT        | 146247  | Power Meter        | Keysight Technologies Inc         | 8990B                  | MY51000272      | 2024/05/14            | 12      |
| AT        | 146310  | Power sensor       | Keysight Technologies Inc         | N1923A                 | MY5326009       | 2024/05/14            | 12      |
| AT        | 160495  | Attenuator         | Weinschel Corp.                   | 54A-20                 | 86752           | 2023/12/08            | 12      |
| AT        | 160496  | Attenuator         | Weinschel Corp.                   | 54A-20                 | 87636           | 2023/12/08            | 12      |
| AT        | 169910  | Power Meter        | Keysight Technologies Inc         | 8990B                  | MY51000448      | 2023/09/28            | 12      |
| AT        | 169911  | Power sensor       | Keysight Technologies Inc         | N1923A                 | MY57270004      | 2023/09/28            | 12      |
| AT        | 169912  | Power sensor       | Keysight Technologies Inc         | N1923A                 | MY57290005      | 2023/09/28            | 12      |
| AT        | 171614  | Terminator         | Weinschel - API Technologies Corp | M1459A                 | 88995           | 2024/05/10            | 12      |
| AT        | 171616  | Terminator         | Weinschel - API Technologies Corp | M1459A                 | 89025           | 2024/05/09            | 12      |
| AT        | 191845  | Thermo-Hygrometer  | CUSTOM. Inc                       | CTH-201                | -               | 2023/08/07            | 12      |
| AT        | 191847  | Thermo-Hygrometer  | CUSTOM. Inc                       | CTH-201                | -               | 2023/08/03            | 12      |
| AT        | 196937  | Coaxial Cable      | Huber+Suhner                      | SUCOFLEX 102           | 803605/2        | 2024/03/07            | 12      |
| AT        | 196941  | Coaxial Cable      | Huber+Suhner                      | SUCOFLEX 102           | 803093/2        | 2024/03/07            | 12      |
| AT        | 236410  | Spectrum Analyzer  | Keysight Technologies Inc         | N9030B                 | MY63050151      | 2024/04/26            | 12      |
| AT        | 240499  | Spectrum Analyzer  | Keysight Technologies Inc         | N9020B                 | MY59050557      | 2023/10/21            | 12      |
| AT        | 242075  | Terminator         | Weinschel - API Technologies Corp | M1459A                 | 121073          | 2023/11/17            | 12      |
| CE        | 145035  | Coaxial Cable      | Suhner                            | RG223U                 | -               | 2024/04/01            | 12      |
| CE        | 145541  | LISN               | Rohde & Schwarz                   | ENV216                 | 100514          | 2024/02/06            | 12      |
| CE        | 145542  | LISN               | Rohde & Schwarz                   | ENV216                 | 100516          | 2024/02/06            | 12      |
| CE        | 145746  | Terminator         | TME                               | CT-01 BP               | -               | 2023/12/08            | 12      |
| CE        | 146209  | Test Receiver      | Rohde & Schwarz                   | ESU26                  | 100484          | 2023/09/22            | 12      |
| CE        | 146210  | Digital Hitester   | HIOKI E.E. CORPORATION            | 3805-50                | 80997823        | 2023/09/25            | 12      |
| CE        | 146294  | Humidity Indicator | A&D Company                       | AD-5681                | 4062118         | -                     | -       |
| CE        | 146432  | Tape Measure       | TAJIMA                            | GL19-55                | -               | -                     | -       |
| CE        | 199786  | Attenuator         | JFW                               | 50HF-006N              | -               | 2024/06/14            | 12      |
| CE,RE     | 170932  | EMI Software       | TSJ (Techno Science Japan)        | TEPTO-DV3(RE,CE,ME,PE) | Ver 3.1.0546    | -                     | -       |
| RE        | 144878  | Pre Amplifier      | Hewlett Packard                   | 8449B                  | 3008A01268      | 2024/04/04            | 12      |
| RE        | 144941  | Horn Antenna       | Schwarzbeck Mess-Elektronik OHG   | BBHA9120D              | 230             | 2024/05/13            | 12      |
| RE        | 144942  | Horn Antenna       | ETS-Lindgren (Cedar Park, Texas)  | 3160-10                | 00047525        | 2024/05/23            | 12      |
| RE        | 145007  | Pre Amplifier      | Toyo Corporation                  | HAP18-26W              | 19              | 2024/03/05            | 12      |
| RE        | 145129  | Pre Amplifier      | Toyo Corporation                  | HAP26-40W              | B3208602403-176 | 2024/05/09            | 12      |

### Test Equipment (2/3)

| Test Item | LIMS ID | Description                       | Manufacturer                            | Model                                      | Serial                                  | Last Calibration Date | Cal Int |
|-----------|---------|-----------------------------------|-----------------------------------------|--------------------------------------------|-----------------------------------------|-----------------------|---------|
| RE        | 145176  | Coaxial Cable                     | Suhner                                  | SUCOFLEX 102                               | 32703/2                                 | 2023/08/23            | 12      |
| RE        | 145512  | Horn Antenna                      | ETS-Lindgren                            | 3160-09                                    | 00094868                                | 2024/06/20            | 12      |
| RE        | 145514  | Horn Antenna                      | ETS-Lindgren                            | 3160-10                                    | 00092383                                | 2024/06/20            | 12      |
| RE        | 145515  | Horn Antenna                      | ETS-Lindgren<br>(Cedar Park, Texas)     | 3116                                       | 108256                                  | 2024/05/13            | 12      |
| RE        | 145527  | Logperiodic Antenna               | Schwarzbeck<br>Mess-Elektronik OHG      | VUSLP9111B                                 | 193                                     | 2024/04/10            | 12      |
| RE        | 179540  | Coaxial Cable                     | Huber+Suhner                            | SUCOFLEX 102                               | 802815/2                                | 2024/03/05            | 12      |
| RE        | 196945  | Coaxial Cable                     | Huber+Suhner                            | SUCOFLEX 102                               | 803414/2                                | 2024/03/12            | 12      |
| RE        | 199784  | Attenuator                        | JFW                                     | 50HF-006N                                  | -                                       | 2024/06/14            | 12      |
| RE        | 207280  | Tape Measure                      | ASKUL                                   | -                                          | -                                       | -                     | -       |
| RE        | 213530  | Test Receiver                     | Rohde & Schwarz                         | ESW44                                      | 103068                                  | 2024/02/22            | 12      |
| RE        | 235267  | Test Receiver                     | Rohde & Schwarz                         | ESW44                                      | 103018                                  | 2024/03/05            | 12      |
| RE        | 235268  | Test Receiver                     | Rohde & Schwarz                         | ESW44                                      | 103212                                  | 2023/12/26            | 12      |
| RE        | 235639  | DIGITAL MULTIMETER                | HIOKI E.E. CORPORATION                  | DT4261                                     | 230313156                               | 2024/05/29            | 12      |
| RE        | 235735  | Thermo-Hygrometer                 | CUSTOM. Inc                             | CTH-230                                    | -                                       | 2024/04/28            | 12      |
| RE        | 236212  | Semi-Anechoic Chamber             | TDK                                     | SWAC-01(NSA)                               | 1                                       | 2024/05/09            | 12      |
| RE        | 236583  | Horn Antenna                      | AINFO Inc.                              | LB-8180-NF                                 | 2030013000111                           | -                     | -       |
| RE        | 236616  | Semi-Anechoic Chamber             | TDK                                     | SWAC-01(SVSWR)                             | 1                                       | 2024/06/04            | 12      |
| RE        | 236708  | Coaxial Cable                     | Hayashi-Repic co., Ltd.                 | NMS079B-GL310C-SMS117B-2m                  | 47256-02-03                             | 2024/05/09            | 12      |
| RE        | 236710  | Coaxial Cable                     | Hayashi-Repic co., Ltd.                 | KMS020B-GL140sE-KMS020B-7.0m               | 47256-03-01                             | 2024/05/09            | 12      |
| RE        | 236723  | Coaxial Cable                     | Hayashi-Repic co., Ltd.                 | SF106(HUBER+SUHNER)/LMR400UF/GL310C/GL310C | 2000429/47753-1/47256-01-03/47256-01-01 | 2024/05/09            | 12      |
| RE        | 236755  | Coaxial Cable                     | Huber+Suhner                            | SF106/11N/11N/6000                         | 2001166                                 | 2023/05/23            |         |
| RE        | 236769  | Horn Antenna                      | AINFO Inc.                              | LB-8180-NF                                 | 2030013000111                           | 2024/04/19            | 12      |
| RE        | 236799  | Antenna Tilt Jig                  | Intelligent System Engineering Co., Ltd | Antenna Tilt Jig                           | 1512004-0019-052                        | -                     | -       |
| RE        | 236966  | Pre Amplifier                     | TSJ (Techno Science Japan)              | MLA-9K01-L01                               | 23050009                                | 2024/06/14            | 12      |
| RE        | 237784  | RF RELAY MATRIX with preamplifier | TSJ (Techno Science Japan)              | RFM-E221261R                               | 07795                                   | 2023/11/01            | 12      |
| RE        | 239643  | Coaxial Cable                     | Junkosha                                | MWX221-01000NFSNMS/B                       | 2306S021                                | 2023/08/22            | 12      |
| RE        | 239649  | Coaxial Cable                     | Huber+Suhner                            | SUCOFLEX 102                               | 2001217/2                               | 2023/08/22            | 12      |
| RE        | 239786  | Biconical Antenna                 | Schwarzbeck<br>Mess-Elektronik OHG      | VHBB 9124+BBA9106                          | 01895                                   | 2023/09/21            | 12      |
| RE        | 242058  | Highpass Filter                   | Micro-Tronics                           | HPM50107                                   | G118                                    | 2023/11/17            | 12      |

### Test Equipment (3/3)

| Test Item | LIMS ID | Description   | Manufacturer            | Model                  | Serial      | Last Calibration Date | Cal Int |
|-----------|---------|---------------|-------------------------|------------------------|-------------|-----------------------|---------|
| RE        | 243209  | Coaxial Cable | Hayashi-Repic co., Ltd. | SMS13-13A26-NFS13-1.0m | 49190-01-01 | 2023/12/20            | 12      |
| RE        | 243215  | Coaxial Cable | Hayashi-Repic co., Ltd. | SMS13-13A26-NMS13-9.0m | 49306-01-03 | 2024/06/12            | 12      |
| RE        | 243217  | Coaxial Cable | Hayashi-Repic co., Ltd. | SMS13-13A26-NMS13-9.0m | 49306-01-04 | 2023/12/20            | 12      |

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

**The expiration date of the calibration is the end of the expired month.  
As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

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

**Test item:**

**AT: Antenna Terminal Conducted test**

**CE: Conducted Emission**

**RE: Radiated Emission**