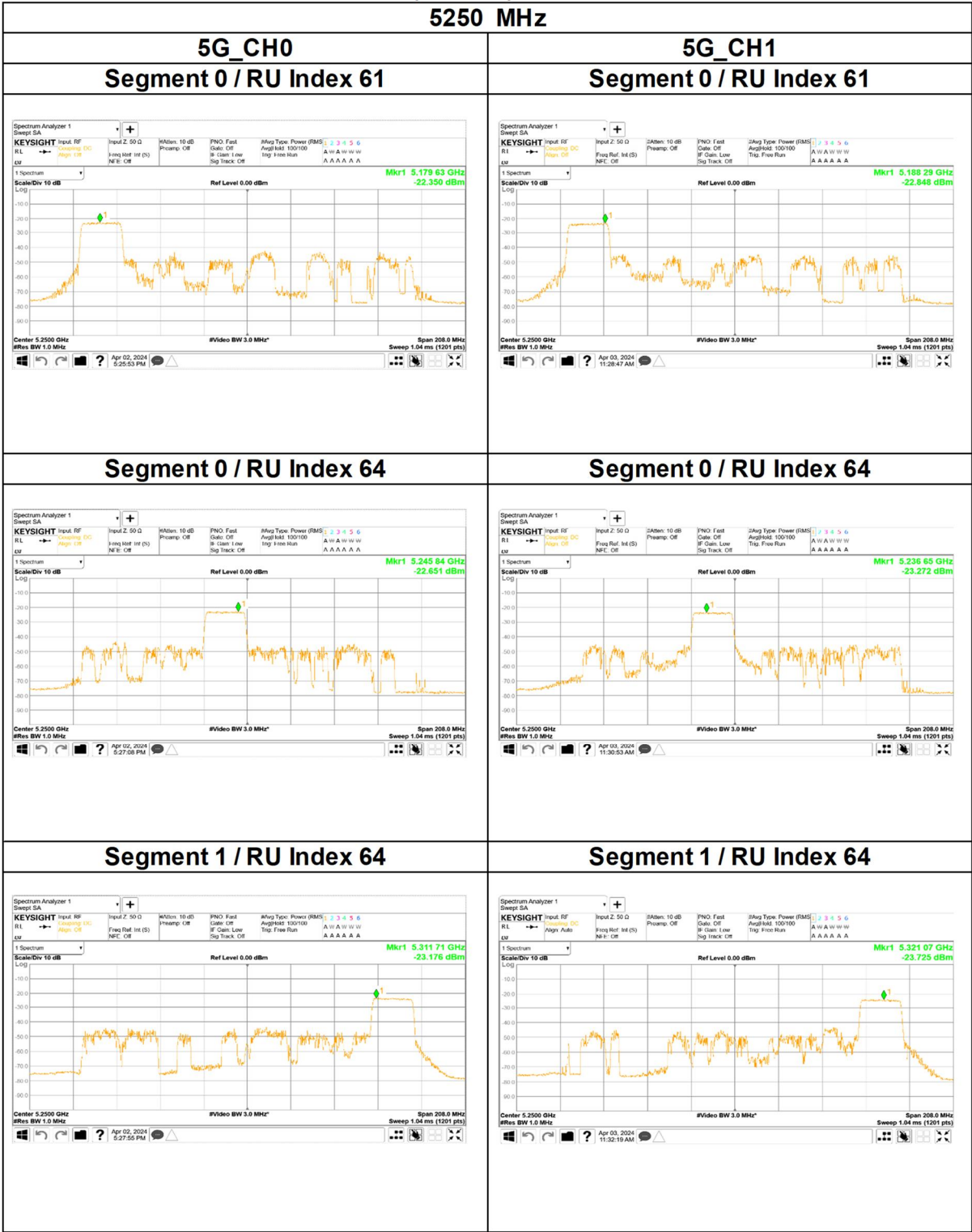


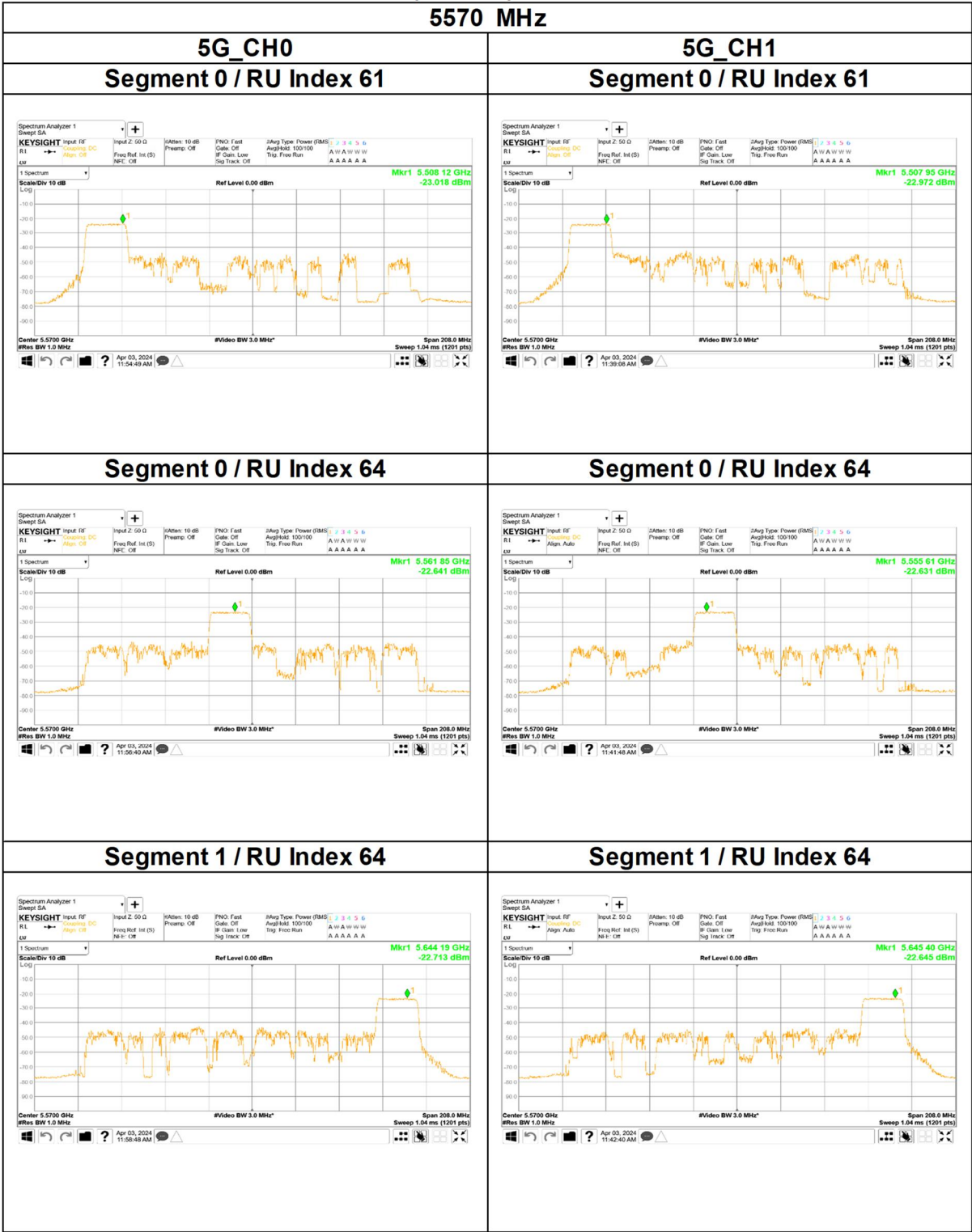
**Maximum Power Spectral Density**

**11ax-160(OFDMA), 242-tone RU**  
**5250 MHz**



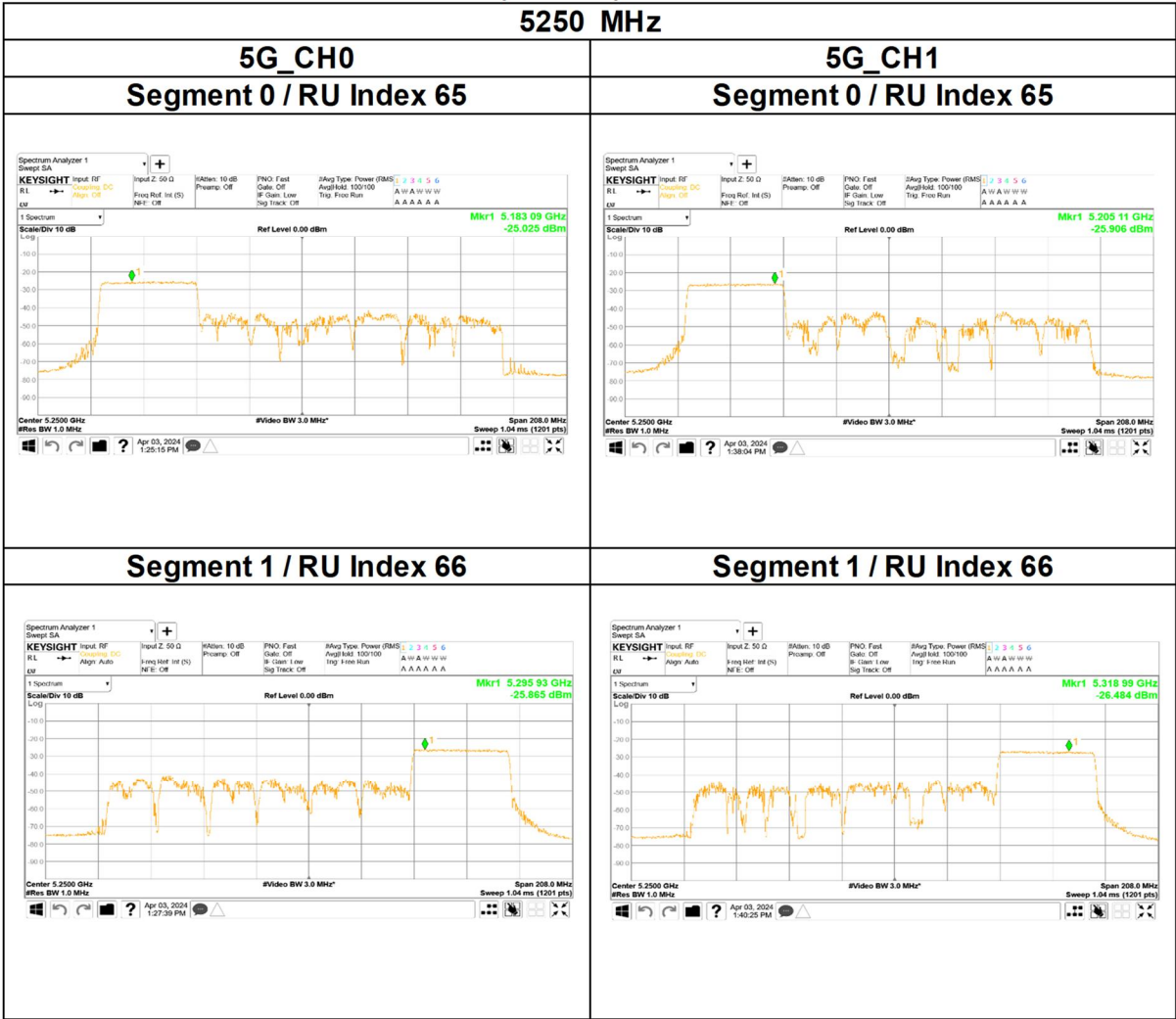
Maximum Power Spectral Density

11ax-160(OFDMA), 242-tone RU  
5570 MHz



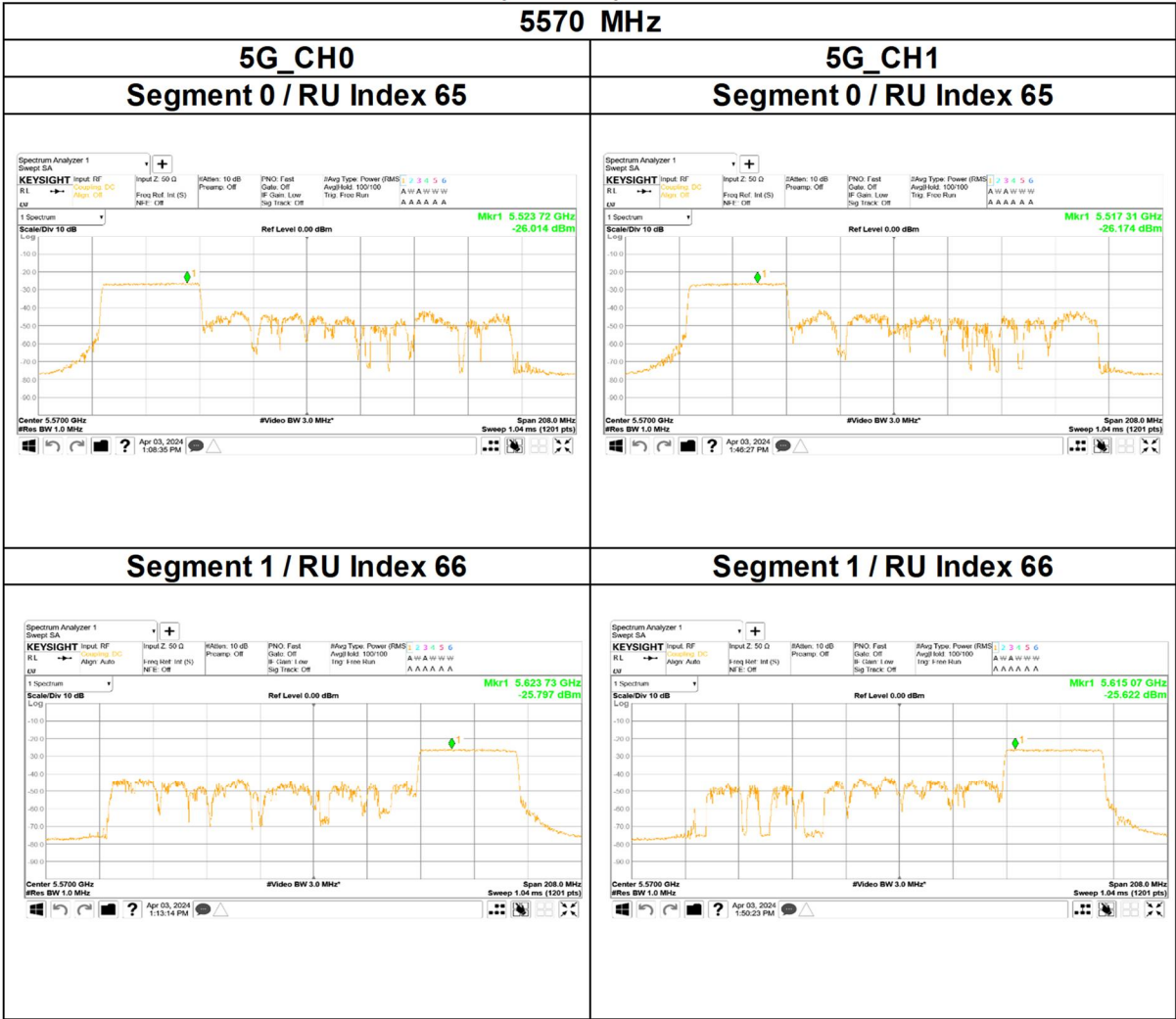
Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU  
5250 MHz



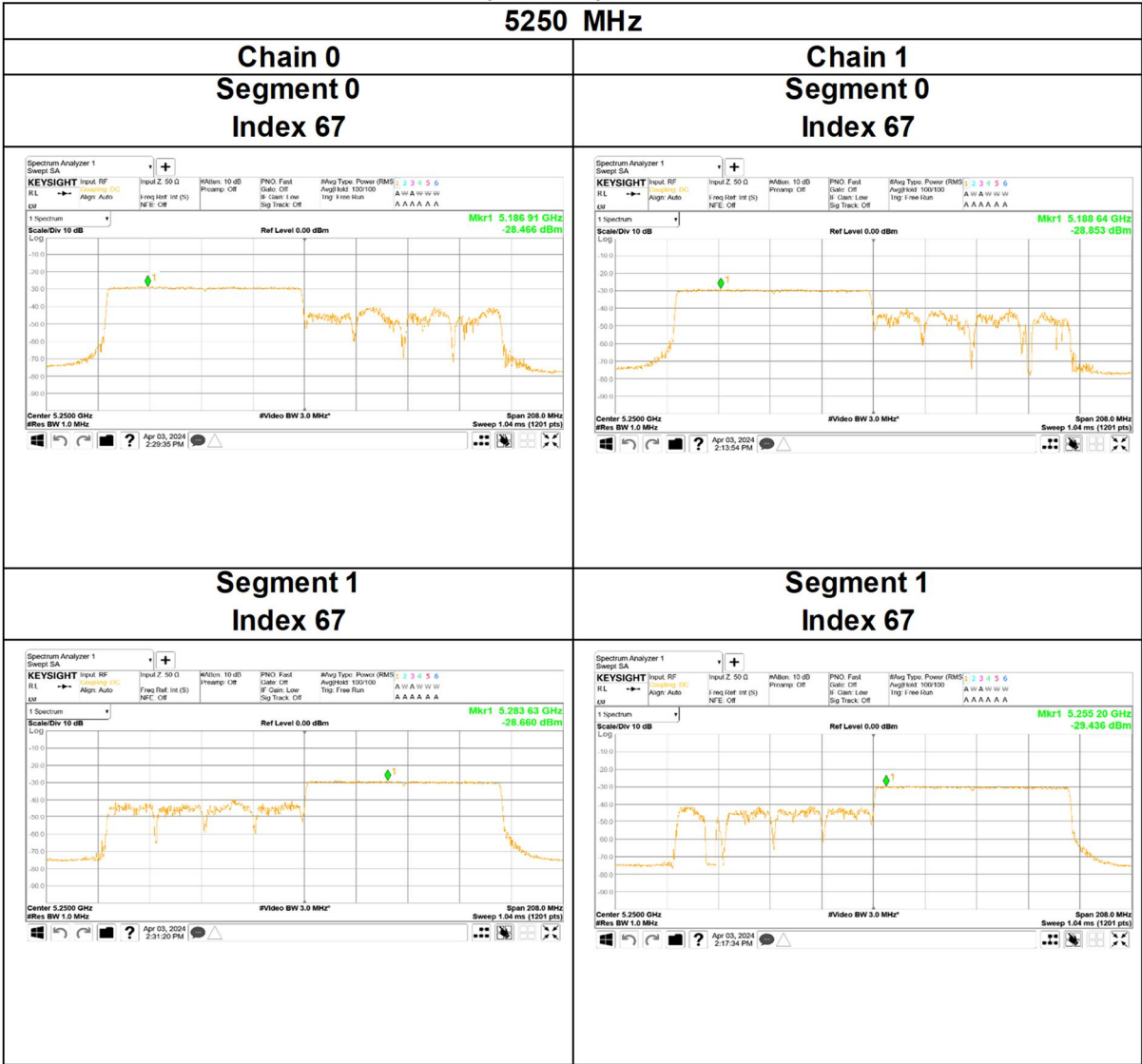
Maximum Power Spectral Density

11ax-160(OFDMA), 484-tone RU  
5570 MHz



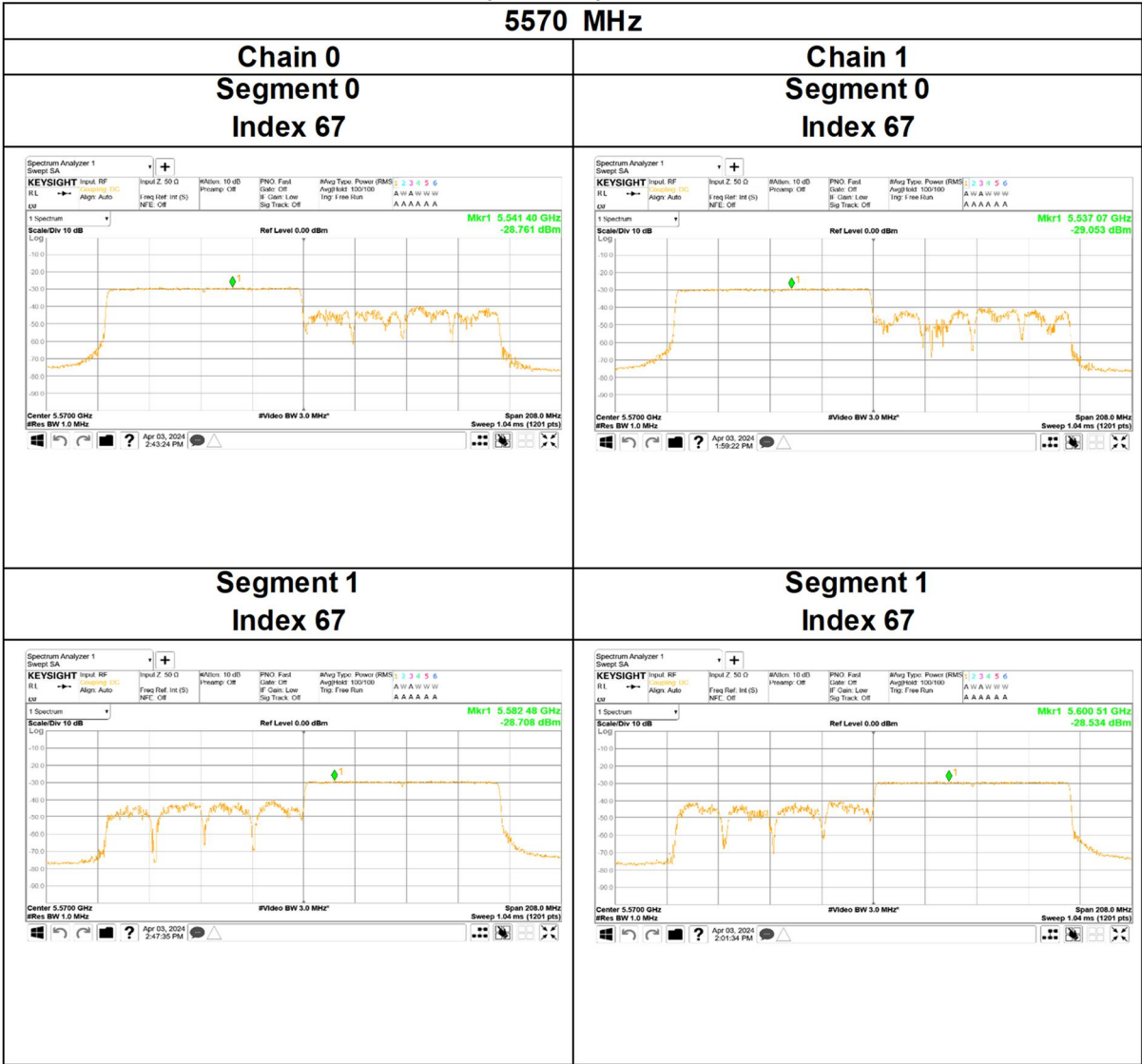
Maximum Power Spectral Density

11ax-160(OFDMA), 996-tone RU  
5250 MHz



Maximum Power Spectral Density

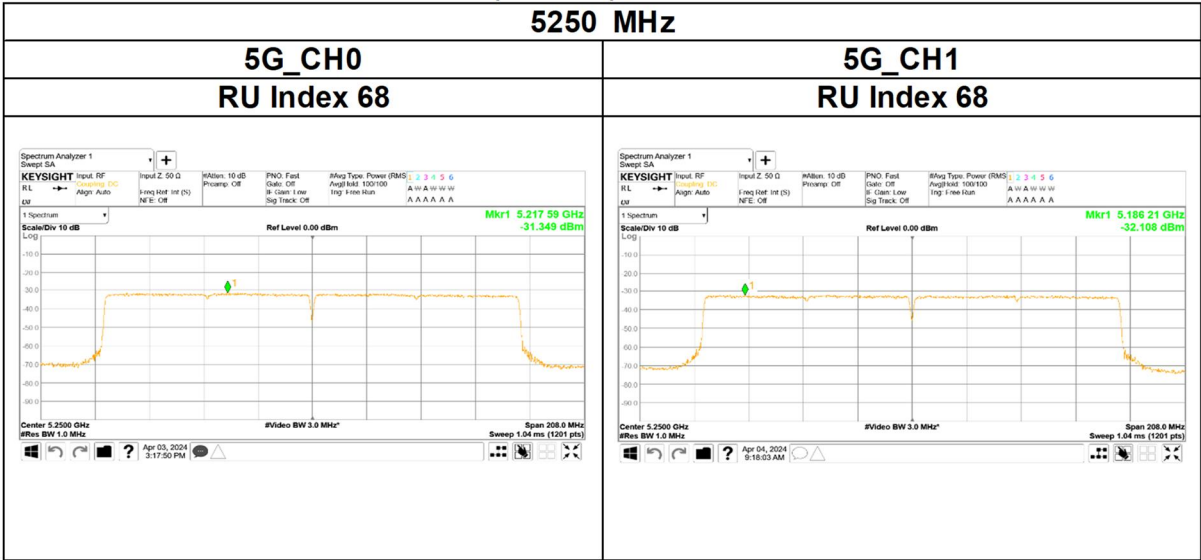
11ax-160(OFDMA), 996-tone RU  
5570 MHz



Maximum Power Spectral Density

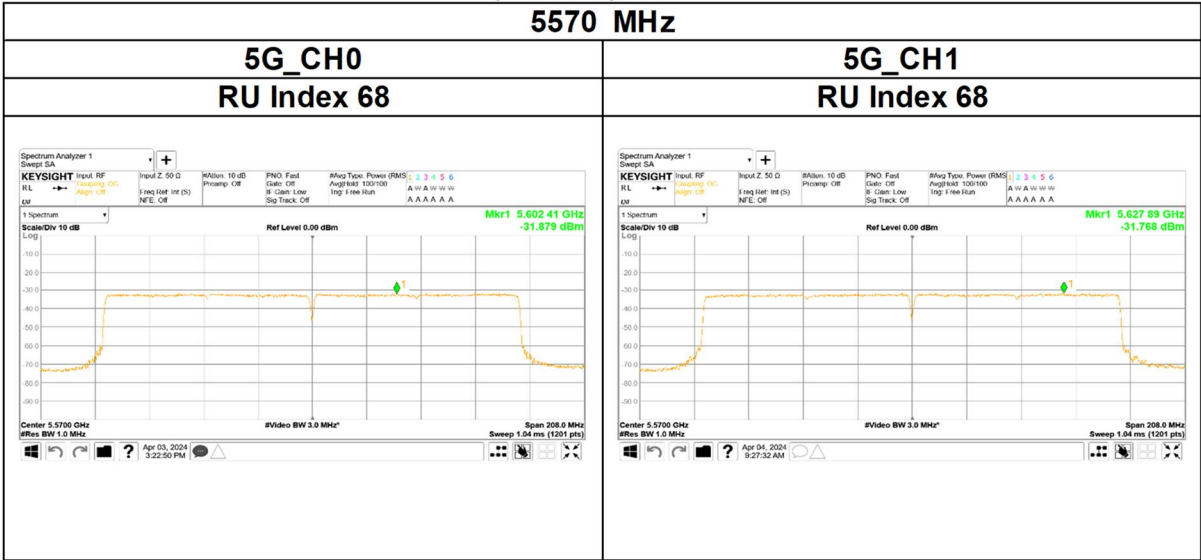
11ax-160(OFDMA), 2x996-tone RU

5250 MHz



11ax-160(OFDMA), 2x996-tone RU

5570 MHz



## Radiated Spurious Emission

Test place Shonan EMC Lab.  
Semi Anechoic Chamber SAC 3  
Date December 23, 2023  
Temperature / Humidity 23 deg. C / 26 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11a 5180 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5150.000           | PK       | 48.83             | 32.16              | 16.62        | 43.07        | 2.10                    | 56.64              | 73.9              | 17.2           | 177            | 45              | -          |
| Hori.    | 5150.000           | AV       | 37.55             | 32.16              | 16.62        | 43.07        | 2.10                    | 45.36              | 53.9              | 8.5            | 177            | 45              | VBW:510 Hz |
| Vert.    | 5150.000           | PK       | 48.88             | 32.16              | 16.62        | 43.07        | 2.10                    | 56.69              | 73.9              | 17.2           | 234            | 0               | -          |
| Vert.    | 5150.000           | AV       | 37.64             | 32.16              | 16.62        | 43.07        | 2.10                    | 45.45              | 53.9              | 8.4            | 234            | 0               | VBW:510 Hz |

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

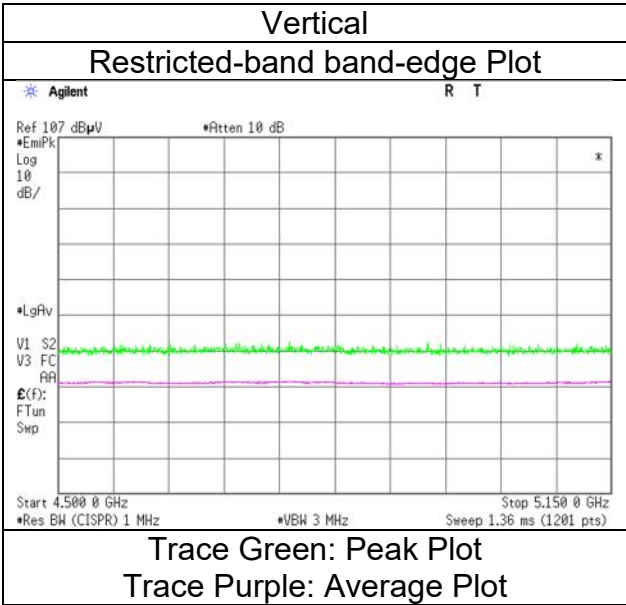
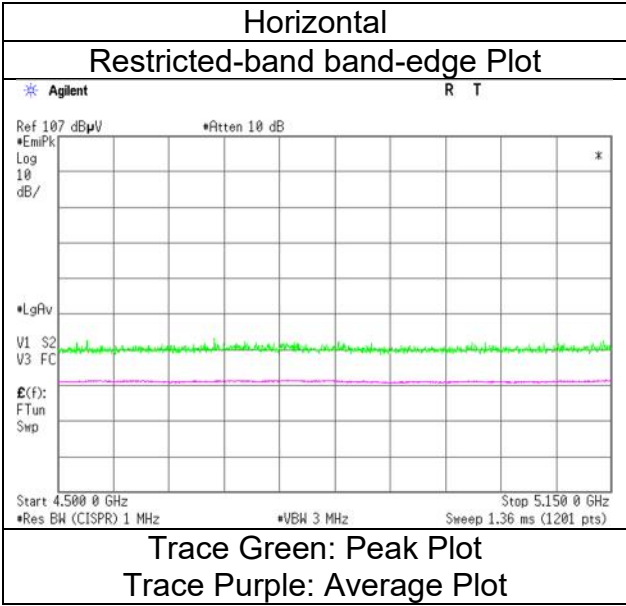
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 3                               |
| Date                   | December 23, 2023                   |
| Temperature / Humidity | 23 deg. C / 26 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11a 5180 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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 SAC 3  
Date December 23, 2023  
Temperature / Humidity 23 deg. C / 26 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11a 5320 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (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.    | 5350.000        | PK       | 49.38          | 31.98           | 16.74     | 43.30     | 2.10                 | 56.90           | 73.9           | 17.0        | 179         | 34           | -          |
| Hori.    | 5350.000        | AV       | 38.11          | 31.98           | 16.74     | 43.30     | 2.10                 | 45.63           | 53.9           | 8.2         | 179         | 34           | VBW:510 Hz |
| Vert.    | 5350.000        | PK       | 49.77          | 31.98           | 16.74     | 43.30     | 2.10                 | 57.29           | 73.9           | 16.6        | 235         | 0            | -          |
| Vert.    | 5350.000        | AV       | 38.23          | 31.98           | 16.74     | 43.30     | 2.10                 | 45.75           | 53.9           | 8.1         | 235         | 0            | VBW:510 Hz |

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

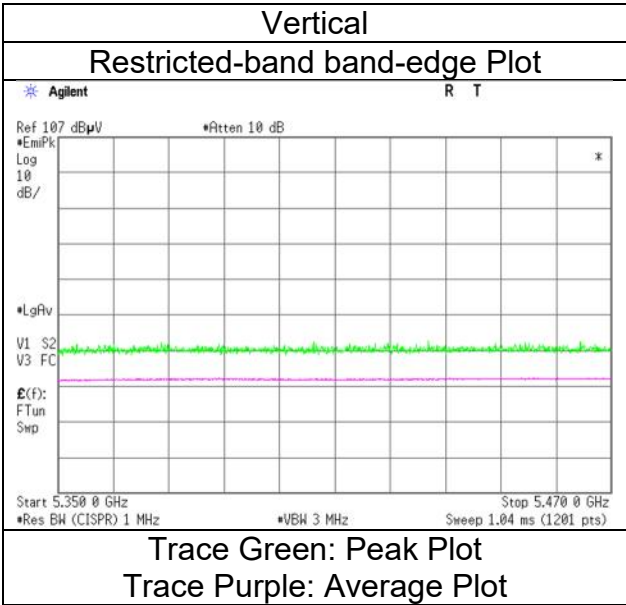
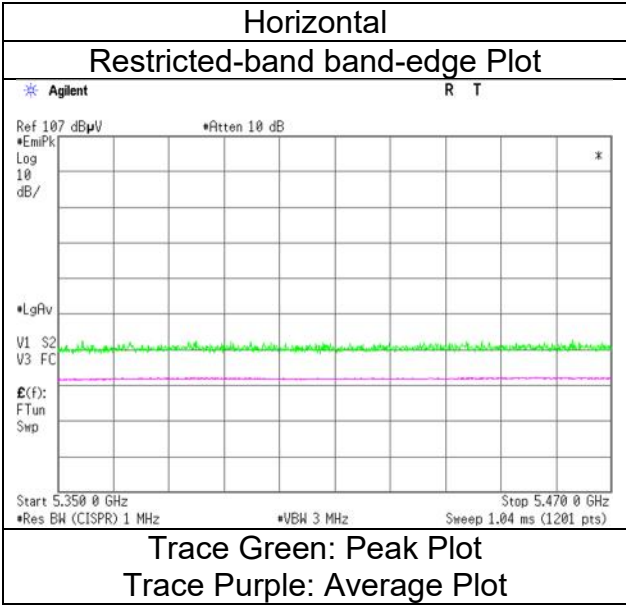
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 3                               |
| Date                   | December 23, 2023                   |
| Temperature / Humidity | 23 deg. C / 26 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11a 5320 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 3                               |
| Date                   | December 23, 2023                   |
| Temperature / Humidity | 23 deg. C / 26 % RH                 |
| Engineer               | Kenichi Adachi                      |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11a 5500 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

### (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.    | 5460.000        | PK       | 48.38          | 32.24           | 16.82     | 43.42     | 2.10                 | 56.12           | 73.9           | 17.7        | 178         | 39           | -          |
| Hori.    | 5460.000        | AV       | 38.13          | 32.24           | 16.82     | 43.42     | 2.10                 | 45.87           | 53.9           | 8.0         | 178         | 39           | VBW:510 Hz |
| Vert.    | 5460.000        | PK       | 48.76          | 32.24           | 16.82     | 43.42     | 2.10                 | 56.50           | 73.9           | 17.4        | 293         | 0            | -          |
| Vert.    | 5460.000        | AV       | 38.33          | 32.24           | 16.82     | 43.42     | 2.10                 | 46.07           | 53.9           | 7.8         | 293         | 0            | VBW:510 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5470.000        | PK       | 48.46          | 32.25           | 16.83     | 43.44     | 2.10                 | 56.20           | -39.03              | -27.0       | 12.0        | 178         | 39           | -      |
| Vert.    | 5470.000        | PK       | 48.96          | 32.25           | 16.83     | 43.44     | 2.10                 | 56.70           | -38.53              | -27.0       | 11.5        | 293         | 0            | -      |

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

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

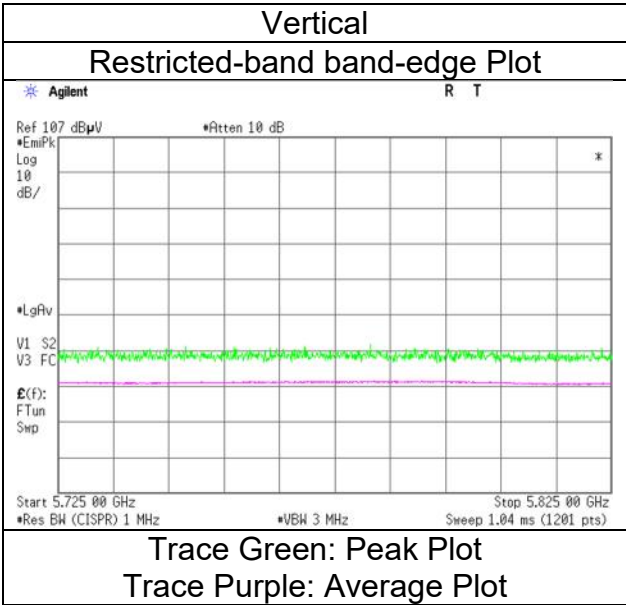
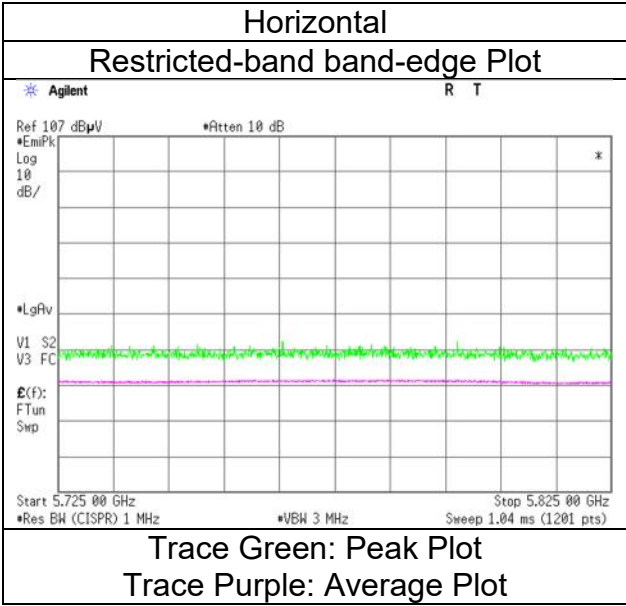
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 3                               |
| Date                   | December 23, 2023                   |
| Temperature / Humidity | 23 deg. C / 26 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11a 5500 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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 SAC 3  
Date December 25, 2023  
Temperature / Humidity 21 deg. C / 35 % RH  
Engineer Yohsuke Matsuzawa  
(1 GHz to 6.4 GHz)  
Mode Tx 11a 5700 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5725.000        | PK       | 48.72          | 32.63           | 16.97     | 43.42     | 2.10                 | 57.00           | -38.23              | -27.0       | 11.2        | 129         | 221          | -      |
| Vert.    | 5725.000        | PK       | 48.10          | 32.63           | 16.97     | 43.42     | 2.10                 | 56.38           | -38.85              | -27.0       | 11.8        | 142         | 1            | -      |

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

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

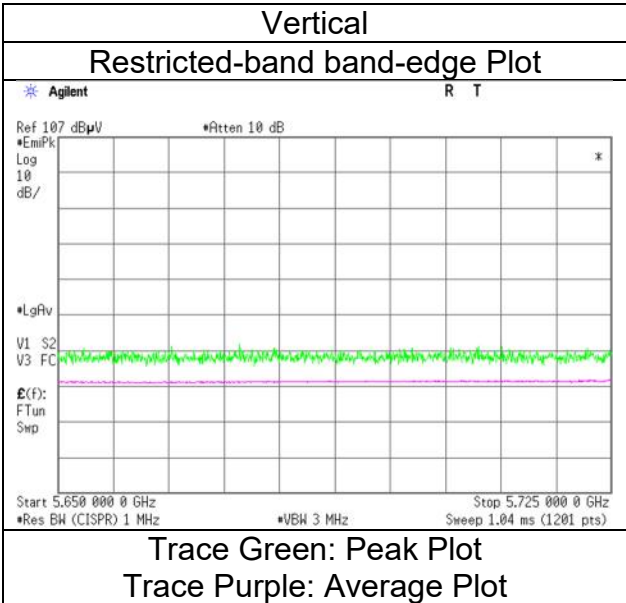
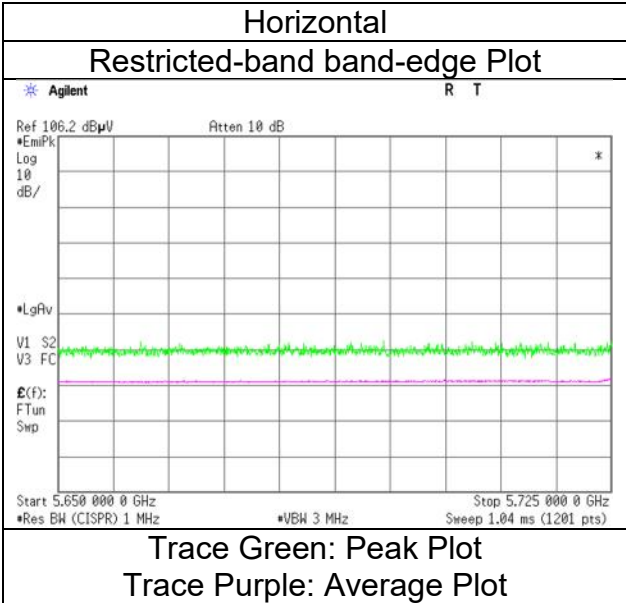
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11a 5700 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11a 5745 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5650.000        | PK       | 48.29          | 32.44           | 17.03     | 43.44     | 2.10                 | 56.42           | -38.81             | -27.0       | 11.8        | 316         | 26           | -      |
| Hori.    | 5700.000        | PK       | 48.11          | 32.56           | 17.05     | 43.43     | 2.10                 | 56.39           | -38.84             | 10.0        | 48.8        | 316         | 26           | -      |
| Hori.    | 5720.000        | PK       | 48.93          | 32.61           | 17.06     | 43.42     | 2.10                 | 57.28           | -37.95             | 15.6        | 53.5        | 316         | 26           | -      |
| Hori.    | 5723.300        | PK       | 50.92          | 32.62           | 17.07     | 43.42     | 2.10                 | 59.29           | -35.94             | 23.2        | 59.1        | 316         | 26           | -      |
| Hori.    | 5725.000        | PK       | 49.80          | 32.63           | 17.07     | 43.42     | 2.10                 | 58.18           | -37.05             | 27.0        | 64.0        | 316         | 26           | -      |
| Vert.    | 5650.000        | PK       | 48.82          | 32.44           | 17.03     | 43.44     | 2.10                 | 56.95           | -38.28             | -27.0       | 11.2        | 196         | 353          | -      |
| Vert.    | 5700.000        | PK       | 49.10          | 32.56           | 17.05     | 43.43     | 2.10                 | 57.38           | -37.85             | 10.0        | 47.8        | 196         | 353          | -      |
| Vert.    | 5720.000        | PK       | 48.64          | 32.61           | 17.06     | 43.42     | 2.10                 | 56.99           | -38.24             | 15.6        | 53.8        | 196         | 353          | -      |
| Vert.    | 5723.300        | PK       | 50.00          | 32.62           | 17.07     | 43.42     | 2.10                 | 58.37           | -36.86             | 23.2        | 60.0        | 196         | 353          | -      |
| Vert.    | 5725.000        | PK       | 50.55          | 32.63           | 17.07     | 43.42     | 2.10                 | 58.93           | -36.30             | 27.0        | 63.3        | 196         | 353          | -      |

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

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

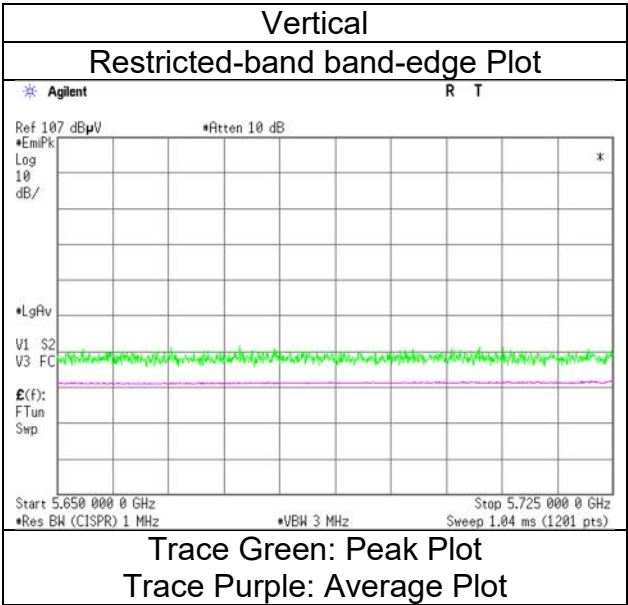
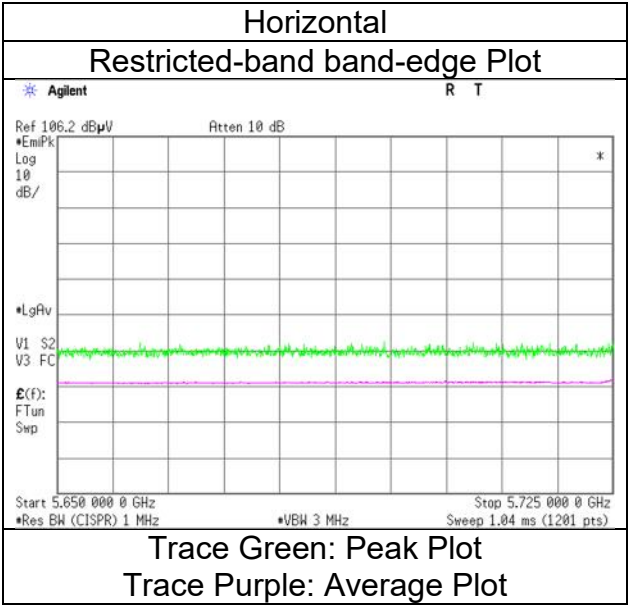
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11a 5745 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11a 5825 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5850.000        | PK       | 49.77          | 32.94           | 17.14     | 43.39     | 2.10                 | 58.56           | -36.67             | 27.0        | 63.6        | 144         | 21           | -      |
| Hori.    | 5855.000        | PK       | 48.98          | 32.95           | 17.14     | 43.39     | 2.10                 | 57.78           | -37.45             | 15.6        | 53.0        | 144         | 21           | -      |
| Hori.    | 5875.000        | PK       | 48.35          | 32.98           | 17.18     | 43.39     | 2.10                 | 57.22           | -38.01             | 10.0        | 48.0        | 144         | 21           | -      |
| Hori.    | 5925.000        | PK       | 48.55          | 33.06           | 17.20     | 43.38     | 2.10                 | 57.53           | -37.70             | -27.0       | 10.7        | 144         | 21           | -      |
| Vert.    | 5850.000        | PK       | 52.22          | 32.94           | 17.14     | 43.39     | 2.10                 | 61.01           | -34.22             | 27.0        | 61.2        | 186         | 354          | -      |
| Vert.    | 5855.000        | PK       | 49.03          | 32.95           | 17.14     | 43.39     | 2.10                 | 57.83           | -37.40             | 15.6        | 53.0        | 186         | 354          | -      |
| Vert.    | 5875.000        | PK       | 49.77          | 32.98           | 17.18     | 43.39     | 2.10                 | 58.64           | -36.59             | 10.0        | 46.5        | 186         | 354          | -      |
| Vert.    | 5925.000        | PK       | 49.21          | 33.06           | 17.20     | 43.38     | 2.10                 | 58.19           | -37.04             | -27.0       | 10.0        | 186         | 354          | -      |

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

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

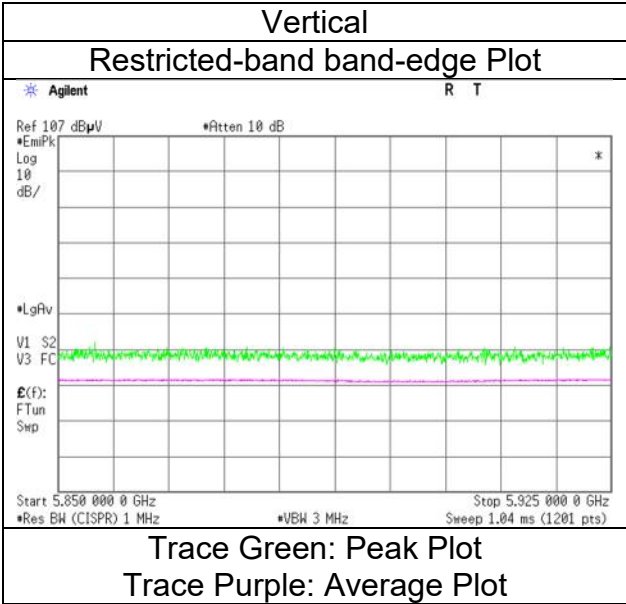
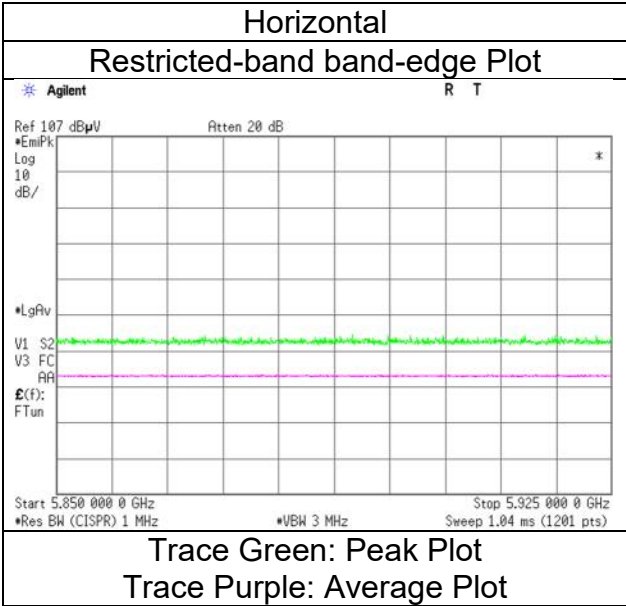
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11a 5825 MHz                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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 SAC 2 WAC 1 SAC 3 WAC 1  
Date January 6, 2024 January 10, 2024 December 19, 2023 January 17, 2024  
Temperature / Humidity 23 deg. C / 30 % RH 20 deg. C / 35 % RH 23 deg. C / 47 % RH 24 deg. C / 31 % RH  
Engineer Makoto Hosaka Miku Ikudome Yosuke Murakami Hiromasa Sato  
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz) (18 GHz to 40 GHz)  
Mode Tx 11n-20 5180 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (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.    | 5150.000        | PK       | 45.24          | 32.23           | 17.20     | 38.73     | 2.10                 | 58.04           | 73.9           | 15.8        | 129         | 44           | -          |
| Hori.    | 15540.000       | PK       | 48.11          | 39.48           | 11.65     | 40.53     | -9.54                | 49.17           | 73.9           | 24.7        | 150         | 0            | -          |
| Hori.    | 5150.000        | AV       | 33.26          | 32.23           | 17.20     | 38.73     | 2.10                 | 46.06           | 53.9           | 7.8         | 129         | 44           | VBW:200 Hz |
| Hori.    | 15540.000       | AV       | 35.27          | 39.48           | 11.65     | 40.53     | -9.54                | 36.33           | 53.9           | 17.5        | 150         | 0            | VBW:200 Hz |
| Vert.    | 5150.000        | PK       | 45.56          | 32.23           | 17.20     | 38.73     | 2.10                 | 58.36           | 73.9           | 15.5        | 113         | 341          | -          |
| Vert.    | 15540.000       | PK       | 48.31          | 39.48           | 11.65     | 40.53     | -9.54                | 49.37           | 73.9           | 24.5        | 150         | 0            | -          |
| Vert.    | 5150.000        | AV       | 33.08          | 32.23           | 17.20     | 38.73     | 2.10                 | 45.88           | 53.9           | 8.0         | 113         | 341          | VBW:200 Hz |
| Vert.    | 15540.000       | AV       | 35.17          | 39.48           | 11.65     | 40.53     | -9.54                | 36.23           | 53.9           | 17.6        | 150         | 0            | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 6906.600        | PK       | 52.02          | 35.14           | -33.35    | -         | 2.10                 | 55.91           | -39.32             | -27.0       | 12.3        | 118         | 193          | -      |
| Hori.    | 10360.000       | PK       | 56.60          | 36.36           | 9.37      | 42.84     | -9.54                | 49.95           | -45.28             | -27.0       | 18.2        | 198         | 206          | -      |
| Hori.    | 31080.000       | PK       | 47.88          | 43.43           | 18.62     | 61.84     | -9.54                | 38.55           | -56.68             | -27.0       | 29.6        | 171         | 243          | -      |
| Hori.    | 36260.000       | PK       | 49.43          | 43.80           | 20.43     | 62.10     | -9.54                | 42.02           | -53.21             | -27.0       | 26.2        | 150         | 0            | -      |
| Vert.    | 6906.600        | PK       | 53.43          | 35.14           | -33.35    | -         | 2.10                 | 57.32           | -37.91             | -27.0       | 10.9        | 162         | 192          | -      |
| Vert.    | 10360.000       | PK       | 57.47          | 36.36           | 9.37      | 42.84     | -9.54                | 50.82           | -44.41             | -27.0       | 17.4        | 149         | 261          | -      |
| Vert.    | 31080.000       | PK       | 47.85          | 43.43           | 18.62     | 61.84     | -9.54                | 38.52           | -56.71             | -27.0       | 29.7        | 168         | 221          | -      |
| Vert.    | 36260.000       | PK       | 49.12          | 43.80           | 20.43     | 62.10     | -9.54                | 41.71           | -53.52             | -27.0       | 26.5        | 150         | 0            | -      |

6.4 GHz - 10 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

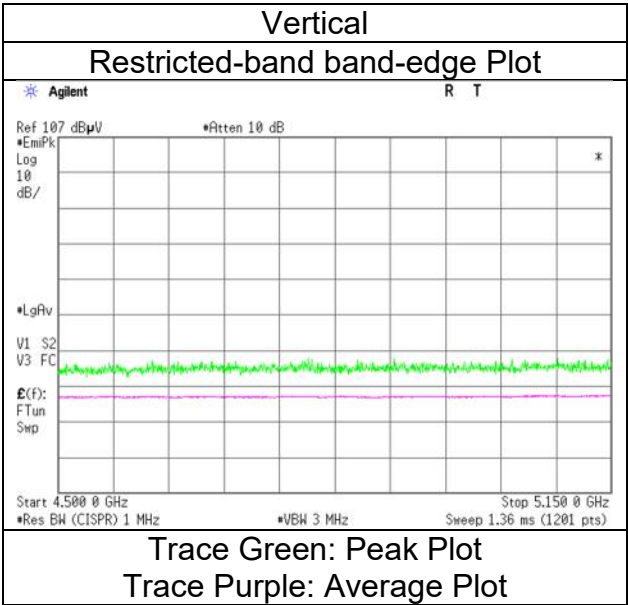
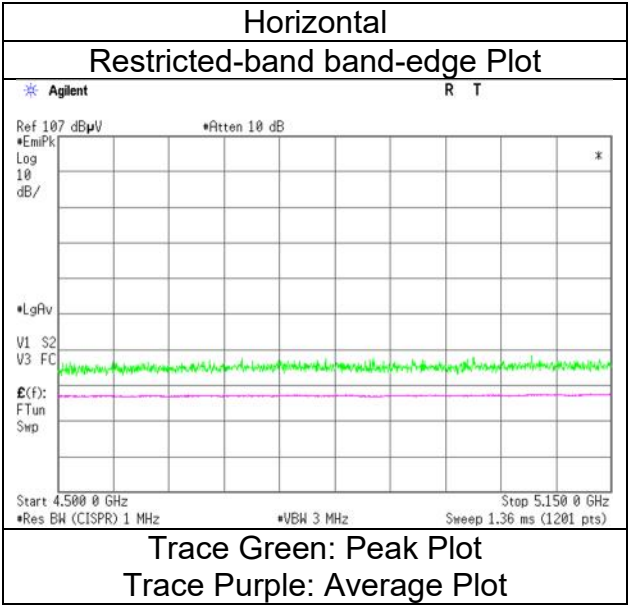
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 2                               |
| Date                   | January 6, 2024                     |
| Temperature / Humidity | 23 deg. C / 30 % RH                 |
| Engineer               | Makoto Hosaka                       |
| Mode                   | Tx 11n-20 5180 MHz                  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 2                               | WAC 1                               | SAC 3                               | WAC 1                               |
| Date                   | January 6, 2024                     | January 10, 2024                    | December 20, 2023                   | January 17, 2024                    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH                 | 21 deg. C / 26 % RH                 | 24 deg. C / 31 % RH                 |
| Engineer               | Makoto Hosaka<br>(1 GHz to 6.4 GHz) | Miku Ikudome<br>(6.4 GHz to 10 GHz) | Hiromasa Sato<br>(10 GHz to 18 GHz) | Hiromasa Sato<br>(18 GHz to 40 GHz) |
| Mode                   | Tx 11n-20 5240 MHz                  |                                     |                                     |                                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                                     |                                     |                                     |

**(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.    | 15720.000       | PK       | 46.58          | 39.63           | 11.60     | 40.56     | -9.54                | 47.71           | 73.9           | 26.1        | 150         | 0            | -                       |
| Hori.    | 15720.000       | AV       | 33.48          | 39.63           | 11.60     | 40.56     | -9.54                | 34.61           | 53.9           | 19.2        | 150         | 0            | VBW:200 Hz, Floor noise |
| Vert.    | 15720.000       | PK       | 47.10          | 39.63           | 11.60     | 40.56     | -9.54                | 48.23           | 73.9           | 25.6        | 150         | 0            | -                       |
| Vert.    | 15720.000       | AV       | 35.87          | 39.63           | 11.60     | 40.56     | -9.54                | 37.00           | 53.9           | 16.9        | 150         | 0            | VBW:200 Hz, Floor noise |

Result [dBuV/m] = 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 (3.82 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] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 6986.625        | PK       | 52.28          | 35.60           | -33.34    | -         | 2.10                 | 56.64           | -38.59              | -27.0       | 11.5        | 228         | 115          | -      |
| Hori.    | 10480.000       | PK       | 53.03          | 36.51           | 9.40      | 42.84     | -9.54                | 46.56           | -48.67              | -27.0       | 21.6        | 209         | 217          | -      |
| Vert.    | 6986.617        | PK       | 52.87          | 35.60           | -33.34    | -         | 2.10                 | 57.23           | -38.00              | -27.0       | 11.0        | 165         | 191          | -      |
| Vert.    | 10480.000       | PK       | 53.96          | 36.51           | 9.40      | 42.84     | -9.54                | 47.49           | -47.74              | -27.0       | 20.7        | 148         | 258          | -      |

6.4 GHz to 10 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

\*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 (3.82 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  | SAC 2                               | WAC 1               | SAC 3               | WAC 1               |
| Date                   | January 6, 2024                     | January 10, 2024    | December 20, 2023   | January 17, 2024    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH | 21 deg. C / 26 % RH | 24 deg. C / 31 % RH |
| Engineer               | Makoto Hosaka                       | Miku Ikudome        | Hiromasa Sato       | Hiromasa Sato       |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  | (18 GHz to 40 GHz)  |
| Mode                   | Tx 11n-20 5320 MHz                  |                     |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |                     |

**(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.    | 5350.000        | PK       | 45.62          | 31.95           | 17.34     | 38.83     | 2.10                 | 58.18           | 73.9           | 15.7        | 151         | 30           | -                       |
| Hori.    | 10640.000       | PK       | 52.99          | 37.12           | 9.46      | 42.86     | -9.54                | 47.17           | 73.9           | 26.7        | 202         | 205          | -                       |
| Hori.    | 15960.000       | PK       | 46.07          | 40.08           | 11.53     | 40.60     | -9.54                | 47.54           | 73.9           | 26.3        | 100         | 0            | -                       |
| Hori.    | 5350.000        | AV       | 33.09          | 31.95           | 17.34     | 38.83     | 2.10                 | 45.65           | 53.9           | 8.2         | 151         | 30           | VBW: 200 Hz             |
| Hori.    | 10640.000       | AV       | 39.94          | 37.12           | 9.46      | 42.86     | -9.54                | 34.12           | 53.9           | 19.7        | 202         | 205          | VBW: 200 Hz             |
| Hori.    | 15960.000       | AV       | 33.88          | 40.08           | 11.53     | 40.60     | -9.54                | 35.35           | 53.9           | 18.5        | 100         | 0            | VBW: 200 Hz, FloorNoise |
| Vert.    | 5350.000        | PK       | 45.86          | 31.95           | 17.34     | 38.83     | 2.10                 | 58.42           | 73.9           | 15.4        | 147         | 334          | -                       |
| Vert.    | 10640.000       | PK       | 52.70          | 37.12           | 9.46      | 42.86     | -9.54                | 46.88           | 73.9           | 27.0        | 136         | 239          | -                       |
| Vert.    | 15960.000       | PK       | 46.40          | 40.08           | 11.53     | 40.60     | -9.54                | 47.87           | 73.9           | 26.0        | 100         | 0            | -                       |
| Vert.    | 5350.000        | AV       | 33.01          | 31.95           | 17.34     | 38.83     | 2.10                 | 45.57           | 53.9           | 8.3         | 147         | 334          | VBW: 200 Hz             |
| Vert.    | 10640.000       | AV       | 40.22          | 37.12           | 9.46      | 42.86     | -9.54                | 34.40           | 53.9           | 19.5        | 136         | 239          | VBW: 200 Hz             |
| Vert.    | 15960.000       | AV       | 33.81          | 40.08           | 11.53     | 40.60     | -9.54                | 35.28           | 53.9           | 18.6        | 100         | 0            | VBW: 200 Hz, FloorNoise |

Result [dBuV/m] = 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 (3.82 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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 7093.266        | PK       | 53.11          | 36.07           | -33.21    | 0.00      | 2.10                 | 58.07           | -37.16             | -27.0       | 10.1        | 176         | 84           | -      |
| Vert.    | 7093.258        | PK       | 54.40          | 36.07           | -33.21    | 0.00      | 2.10                 | 59.36           | -35.87             | -27.0       | 8.8         | 148         | 106          | -      |

6.4 GHz - 10 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

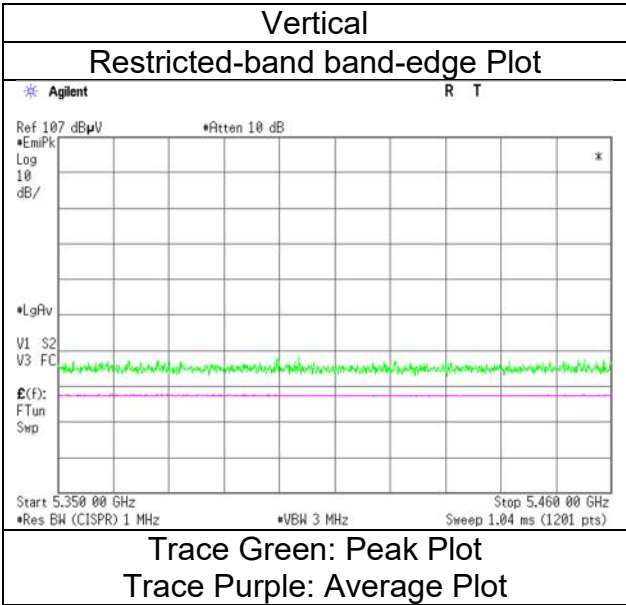
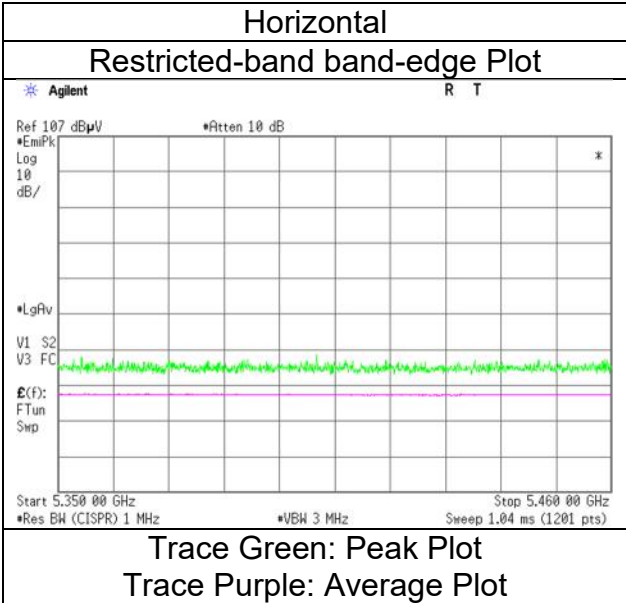
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  | SAC 2                               |
| Date                   | January 6, 2024                     |
| Temperature / Humidity | 23 deg. C / 30 % RH                 |
| Engineer               | Makoto Hosaka                       |
| Mode                   | Tx 11n-20 5320 MHz                  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 2                               | WAC 1               | SAC 3               | WAC 1               |
| Date                   | January 6, 2024                     | January 10, 2024    | December 20, 2023   | January 17, 2024    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH | 21 deg. C / 26 % RH | 24 deg. C / 31 % RH |
| Engineer               | Makoto Hosaka                       | Miku Ikudome        | Yosuke Murakami     | Hiromasa Sato       |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  | (18 GHz to 40 GHz)  |
| Mode                   | Tx 11n-20 5500 MHz                  |                     |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |                     |

### (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.    | 5460.000        | PK       | 44.87          | 32.14           | 17.43     | 38.89     | 2.10                 | 57.65           | 73.9           | 16.2        | 116         | 38           | -          |
| Hori.    | 11000.000       | PK       | 49.61          | 37.58           | 9.59      | 42.90     | -9.54                | 44.34           | 73.9           | 29.5        | 186         | 212          | -          |
| Hori.    | 5460.000        | AV       | 33.18          | 32.14           | 17.43     | 38.89     | 2.10                 | 45.96           | 53.9           | 7.9         | 116         | 38           | VBW:200 Hz |
| Hori.    | 11000.000       | AV       | 36.88          | 37.58           | 9.59      | 42.90     | -9.54                | 31.61           | 53.9           | 22.2        | 186         | 212          | VBW:200 Hz |
| Vert.    | 5460.000        | PK       | 45.07          | 32.14           | 17.43     | 38.89     | 2.10                 | 57.85           | 73.9           | 16.0        | 141         | 341          | -          |
| Vert.    | 11000.000       | PK       | 49.80          | 37.58           | 9.59      | 42.90     | -9.54                | 44.53           | 73.9           | 29.3        | 183         | 263          | -          |
| Vert.    | 5460.000        | AV       | 33.18          | 32.14           | 17.43     | 38.89     | 2.10                 | 45.96           | 53.9           | 7.9         | 141         | 341          | VBW:200 Hz |
| Vert.    | 11000.000       | AV       | 36.92          | 37.58           | 9.59      | 42.90     | -9.54                | 31.65           | 53.9           | 22.2        | 183         | 263          | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5470.000        | PK       | 45.55          | 32.15           | 17.43     | 38.89     | 2.10                 | 58.34           | -36.89             | -27.0       | 9.8         | 116         | 38           | -      |
| Hori.    | 6600.002        | PK       | 50.41          | 34.30           | -33.36    | -         | 2.10                 | 53.45           | -41.78             | -27.0       | 14.7        | 174         | 26           | -      |
| Hori.    | 16500.000       | PK       | 45.96          | 40.19           | 12.29     | 40.65     | -9.54                | 48.25           | -46.98             | -27.0       | 19.9        | 150         | 0            | -      |
| Vert.    | 5470.000        | PK       | 45.67          | 32.15           | 17.43     | 38.89     | 2.10                 | 58.46           | -36.77             | -27.0       | 9.7         | 141         | 341          | -      |
| Vert.    | 6600.001        | PK       | 50.66          | 34.30           | -33.36    | -         | 2.10                 | 53.70           | -41.53             | -27.0       | 14.5        | 149         | 2            | -      |
| Vert.    | 16500.000       | PK       | 46.06          | 40.19           | 12.29     | 40.65     | -9.54                | 48.35           | -46.88             | -27.0       | 19.8        | 150         | 0            | -      |

6.4 GHz - 10 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

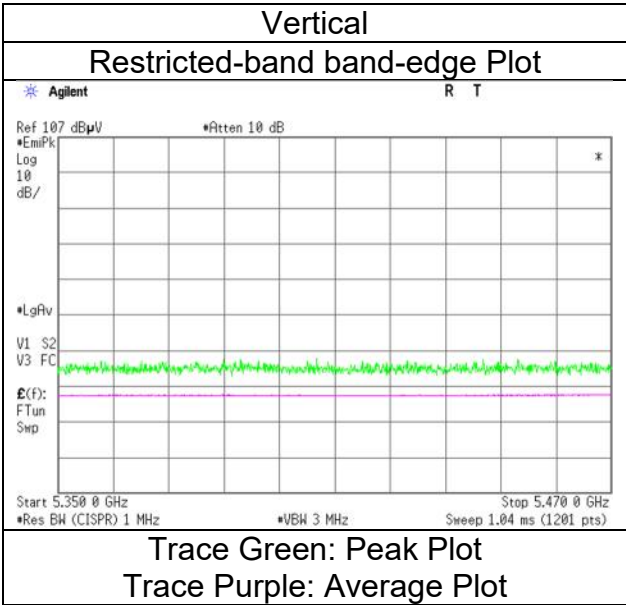
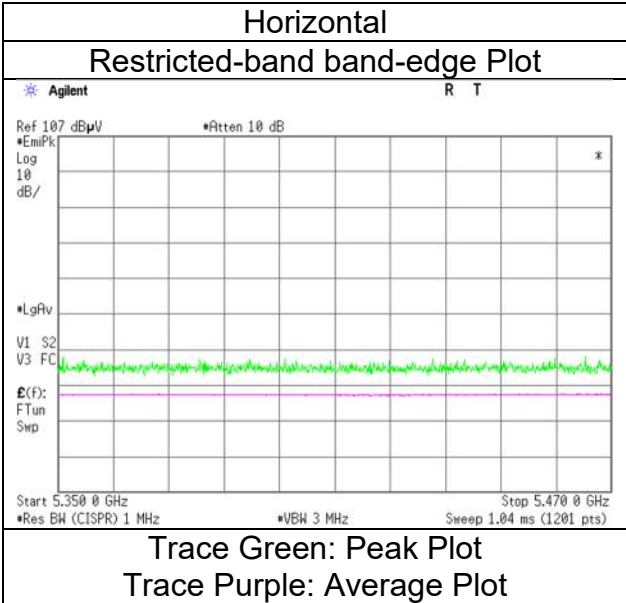
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 2                               |
| Date                   | January 6, 2024                     |
| Temperature / Humidity | 23 deg. C / 30 % RH                 |
| Engineer               | Makoto Hosaka                       |
| Mode                   | Tx 11n-20 5500 MHz                  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 2                               | WAC 1                               | SAC 3                                 | WAC 1                               |
| Date                   | January 6, 2024                     | January 10, 2024                    | December 20, 2023                     | January 17, 2024                    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH                 | 21 deg. C / 26 % RH                   | 24 deg. C / 31 % RH                 |
| Engineer               | Makoto Hosaka<br>(1 GHz to 6.4 GHz) | Miku Ikudome<br>(6.4 GHz to 10 GHz) | Yosuke Murakami<br>(10 GHz to 18 GHz) | Hiromasa Sato<br>(18 GHz to 40 GHz) |
| Mode                   | Tx 11n-20 5580 MHz                  |                                     |                                       |                                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                                     |                                       |                                     |

### (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.    | 11160.000       | PK       | 47.95          | 37.72           | 9.68      | 42.80     | -9.54                | 43.01           | 73.9           | 30.8        | 192         | 199          | -          |
| Hori.    | 11160.000       | AV       | 35.68          | 37.72           | 9.68      | 42.80     | -9.54                | 30.74           | 53.9           | 23.1        | 192         | 199          | VBW:200 Hz |
| Vert.    | 11160.000       | PK       | 47.15          | 37.72           | 9.68      | 42.80     | -9.54                | 42.21           | 73.9           | 31.6        | 184         | 279          | -          |
| Vert.    | 11160.000       | AV       | 35.45          | 37.72           | 9.68      | 42.80     | -9.54                | 30.51           | 53.9           | 23.3        | 184         | 279          | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 6696.000        | PK       | 49.49          | 34.33           | -33.36    | -         | 2.10                 | 52.56           | -42.67             | -27.0       | 15.6        | 162         | 86           | -      |
| Hori.    | 16740.000       | PK       | 46.98          | 39.61           | 12.39     | 40.57     | -9.54                | 48.87           | -46.36             | -27.0       | 19.3        | 150         | 0            | -      |
| Vert.    | 6695.996        | PK       | 49.82          | 34.33           | -33.36    | -         | 2.10                 | 52.89           | -42.34             | -27.0       | 15.3        | 146         | 196          | -      |
| Vert.    | 16740.000       | PK       | 47.21          | 39.61           | 12.39     | 40.57     | -9.54                | 49.10           | -46.13             | -27.0       | 19.1        | 150         | 0            | -      |

6.4 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 2                               | WAC 1               | SAC 3               | WAC 1               |
| Date                   | January 6, 2024                     | January 10, 2024    | December 20, 2023   | January 17, 2024    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH | 21 deg. C / 26 % RH | 24 deg. C / 31 % RH |
| Engineer               | Makoto Hosaka                       | Miku Ikudome        | Yosuke Murakami     | Hiromasa Sato       |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  | (18 GHz to 40 GHz)  |
| Mode                   | Tx 11n-20 5700 MHz                  |                     |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |                     |

### (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.    | 11400.000       | PK       | 46.70          | 38.26           | 9.80      | 42.64     | -9.54                | 42.58           | 73.9           | 31.3        | 194         | 251          | -          |
| Hori.    | 11400.000       | AV       | 35.37          | 38.26           | 9.80      | 42.64     | -9.54                | 31.25           | 53.9           | 22.6        | 194         | 251          | VBW:200 Hz |
| Vert.    | 11400.000       | PK       | 47.07          | 38.26           | 9.80      | 42.64     | -9.54                | 42.95           | 73.9           | 30.9        | 181         | 250          | -          |
| Vert.    | 11400.000       | AV       | 35.61          | 38.26           | 9.80      | 42.64     | -9.54                | 31.49           | 53.9           | 22.4        | 181         | 250          | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5725.000        | PK       | 46.05          | 32.57           | 17.61     | 38.95     | 2.10                 | 59.38           | -35.85             | -27.0       | 8.8         | 149         | 28           | -      |
| Hori.    | 6840.000        | PK       | 48.79          | 34.75           | -33.34    | -         | 2.10                 | 52.30           | -42.93             | -27.0       | 15.9        | 113         | 90           | -      |
| Hori.    | 17100.000       | PK       | 45.30          | 39.85           | 12.51     | 40.42     | -9.54                | 47.70           | -47.53             | -27.0       | 20.5        | 150         | 0            | -      |
| Vert.    | 5725.000        | PK       | 45.82          | 32.57           | 17.61     | 38.95     | 2.10                 | 59.15           | -36.08             | -27.0       | 9.0         | 177         | 348          | -      |
| Vert.    | 6840.000        | PK       | 49.38          | 34.75           | -33.34    | -         | 2.10                 | 52.89           | -42.34             | -27.0       | 15.3        | 142         | 195          | -      |
| Vert.    | 17100.000       | PK       | 45.19          | 39.85           | 12.51     | 40.42     | -9.54                | 47.59           | -47.64             | -27.0       | 20.6        | 150         | 0            | -      |

6.4 GHz - 10 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

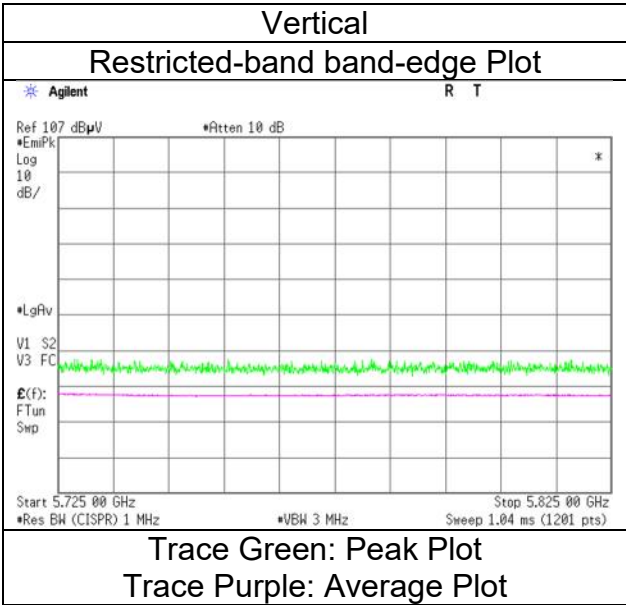
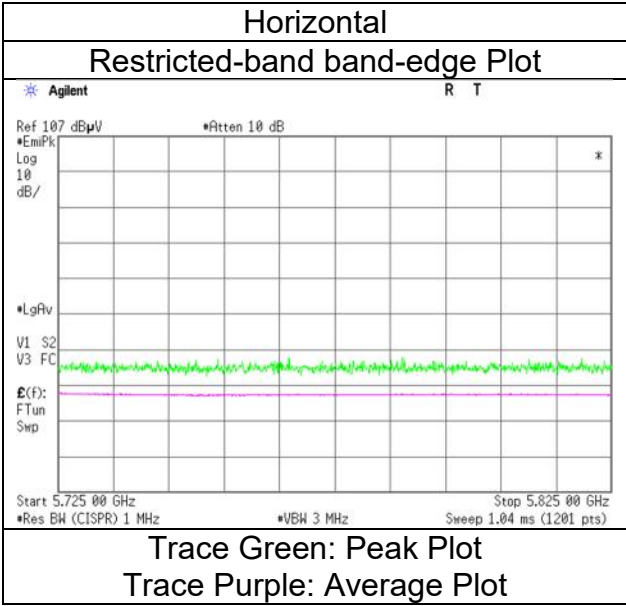
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 2                               |
| Date                   | January 6, 2024                     |
| Temperature / Humidity | 23 deg. C / 30 % RH                 |
| Engineer               | Makoto Hosaka                       |
| Mode                   | Tx 11n-20 5700 MHz                  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 2                               | WAC 1               | SAC 3               | WAC 1               |
| Date                   | January 6, 2024                     | January 10, 2024    | December 20, 2023   | January 17, 2024    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH | 21 deg. C / 26 % RH | 24 deg. C / 31 % RH |
| Engineer               | Makoto Hosaka                       | Miku Ikudome        | Yosuke Murakami     | Hiromasa Sato       |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  | (18 GHz to 40 GHz)  |
| Mode                   | Tx 11n-20 5745 MHz                  |                     |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |                     |

### (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.    | 11490.000       | PK       | 48.74          | 38.32           | 9.86      | 42.59     | -9.54                | 44.79           | 73.9           | 29.1        | 199         | 215          | -          |
| Hori.    | 11490.000       | AV       | 35.80          | 38.32           | 9.86      | 42.59     | -9.54                | 31.85           | 53.9           | 22.0        | 199         | 215          | VBW:200 Hz |
| Vert.    | 11490.000       | PK       | 47.07          | 38.32           | 9.86      | 42.59     | -9.54                | 43.12           | 73.9           | 30.7        | 169         | 257          | -          |
| Vert.    | 11490.000       | AV       | 35.62          | 38.32           | 9.86      | 42.59     | -9.54                | 31.67           | 53.9           | 22.2        | 169         | 257          | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5650.000        | PK       | 44.71          | 32.35           | 17.55     | 38.94     | 2.10                 | 57.77           | -37.46              | -27.0       | 10.4        | 177         | 33           | -      |
| Hori.    | 5700.000        | PK       | 45.27          | 32.48           | 17.59     | 38.95     | 2.10                 | 58.49           | -36.74              | 10.0        | 46.7        | 177         | 33           | -      |
| Hori.    | 5720.000        | PK       | 44.81          | 32.55           | 17.60     | 38.95     | 2.10                 | 58.11           | -37.12              | 15.6        | 52.7        | 177         | 33           | -      |
| Hori.    | 5725.000        | PK       | 46.02          | 32.57           | 17.61     | 38.95     | 2.10                 | 59.35           | -35.88              | 27.0        | 62.8        | 177         | 33           | -      |
| Hori.    | 6894.000        | PK       | 48.78          | 35.05           | -33.35    | -         | 2.10                 | 52.58           | -42.65              | -27.0       | 15.6        | 122         | 88           | -      |
| Hori.    | 17235.000       | PK       | 45.58          | 40.07           | 12.53     | 40.33     | -9.54                | 48.31           | -46.92              | -27.0       | 19.9        | 150         | 0            | -      |
| Vert.    | 5650.000        | PK       | 45.14          | 32.35           | 17.55     | 38.94     | 2.10                 | 58.20           | -37.03              | -27.0       | 10.0        | 139         | 341          | -      |
| Vert.    | 5700.000        | PK       | 44.93          | 32.48           | 17.59     | 38.95     | 2.10                 | 58.15           | -37.08              | 10.0        | 47.0        | 100         | 341          | -      |
| Vert.    | 5720.000        | PK       | 45.75          | 32.55           | 17.60     | 38.95     | 2.10                 | 59.05           | -36.18              | 15.6        | 51.7        | 139         | 341          | -      |
| Vert.    | 5725.000        | PK       | 47.03          | 32.57           | 17.61     | 38.95     | 2.10                 | 60.36           | -34.87              | 27.0        | 61.8        | 139         | 341          | -      |
| Vert.    | 6894.000        | PK       | 49.04          | 35.05           | -33.35    | -         | 2.10                 | 52.84           | -42.39              | -27.0       | 15.3        | 160         | 114          | -      |
| Vert.    | 17235.000       | PK       | 45.60          | 40.07           | 12.53     | 40.33     | -9.54                | 48.33           | -46.90              | -27.0       | 19.9        | 150         | 0            | -      |

6.4 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Result (EIRP [dBm]) =  $10 \cdot \log_{10} \left( \frac{10^{\frac{1}{10} \cdot \text{Result [dBuV/m]}}}{20} \right) \cdot 10^{-6} \cdot \text{Distance : 3 [m]}^2 \cdot 10^{-3}$

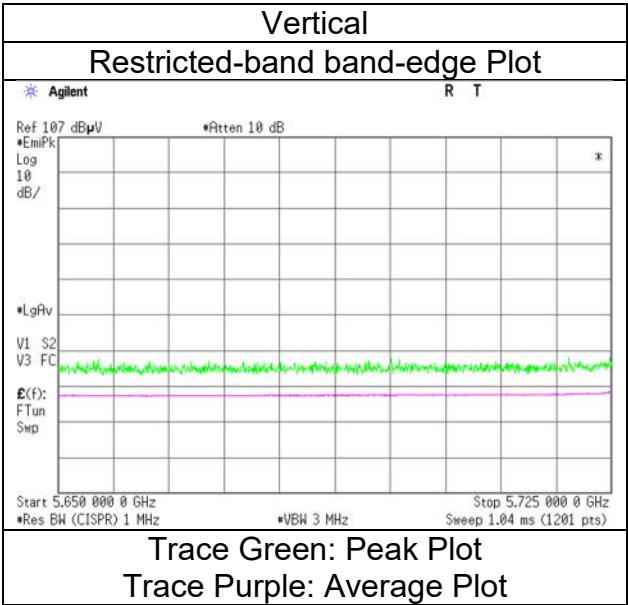
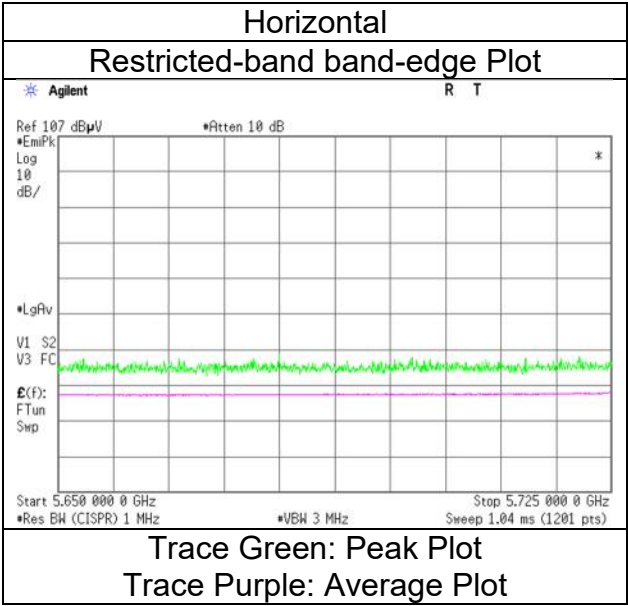
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 2                               |
| Date                   | January 6, 2024                     |
| Temperature / Humidity | 23 deg. C / 30 % RH                 |
| Engineer               | Makoto Hosaka                       |
| Mode                   | Tx 11n-20 5745 MHz                  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 2                               | WAC 1                               | SAC 3                                 | WAC 1                               |
| Date                   | January 6, 2024                     | January 10, 2024                    | December 20, 2023                     | January 17, 2024                    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH                 | 21 deg. C / 26 % RH                   | 24 deg. C / 31 % RH                 |
| Engineer               | Makoto Hosaka<br>(1 GHz to 6.4 GHz) | Miku Ikudome<br>(6.4 GHz to 10 GHz) | Yosuke Murakami<br>(10 GHz to 18 GHz) | Hiromasa Sato<br>(18 GHz to 40 GHz) |
| Mode                   | Tx 11n-20 5785 MHz                  |                                     |                                       |                                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                                     |                                       |                                     |

### (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.    | 11570.000       | PK       | 49.68          | 38.33           | 9.89      | 42.55     | -9.54                | 45.81           | 73.9           | 28.0        | 192         | 288          | -          |
| Hori.    | 11570.000       | AV       | 37.51          | 38.33           | 9.89      | 42.55     | -9.54                | 33.64           | 53.9           | 20.2        | 192         | 288          | VBW:200 Hz |
| Vert.    | 11570.000       | PK       | 49.16          | 38.33           | 9.89      | 42.55     | -9.54                | 45.29           | 73.9           | 28.6        | 184         | 259          | -          |
| Vert.    | 11570.000       | AV       | 37.45          | 38.33           | 9.89      | 42.55     | -9.54                | 33.58           | 53.9           | 20.3        | 184         | 259          | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 6942.000        | PK       | 48.69          | 35.34           | -33.34    | -         | 2.10                 | 52.79           | -42.44             | -27.0       | 15.4        | 139         | 93           | -      |
| Hori.    | 17355.000       | PK       | 46.04          | 40.18           | 12.55     | 40.26     | -9.54                | 48.97           | -46.26             | -27.0       | 19.2        | 150         | 0            | -      |
| Vert.    | 6942.000        | PK       | 49.17          | 35.34           | -33.34    | -         | 2.10                 | 53.27           | -41.96             | -27.0       | 14.9        | 178         | 114          | -      |
| Vert.    | 17355.000       | PK       | 46.36          | 40.18           | 12.55     | 40.26     | -9.54                | 49.29           | -45.94             | -27.0       | 18.9        | 150         | 0            | -      |

6.4 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 2                               | WAC 1               | SAC 3               | WAC 1               |
| Date                   | January 6, 2024                     | January 10, 2024    | December 20, 2023   | January 17, 2024    |
| Temperature / Humidity | 23 deg. C / 30 % RH                 | 20 deg. C / 35 % RH | 21 deg. C / 26 % RH | 24 deg. C / 31 % RH |
| Engineer               | Makoto Hosaka                       | Miku Ikudome        | Yosuke Murakami     | Hiromasa Sato       |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  | (18 GHz to 40 GHz)  |
| Mode                   | Tx 11n-20 5825 MHz                  |                     |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |                     |

**(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.    | 11650.000       | PK       | 50.79          | 38.33           | 9.94      | 42.51     | -9.54                | 47.01           | 73.9           | 26.8        | 184         | 283          | -          |
| Hori.    | 11650.000       | AV       | 38.03          | 38.33           | 9.94      | 42.51     | -9.54                | 34.25           | 53.9           | 19.6        | 184         | 283          | VBW:200 Hz |
| Vert.    | 11650.000       | PK       | 49.84          | 38.33           | 9.94      | 42.51     | -9.54                | 46.06           | 73.9           | 27.8        | 179         | 249          | -          |
| Vert.    | 11650.000       | AV       | 37.90          | 38.33           | 9.94      | 42.51     | -9.54                | 34.12           | 53.9           | 19.7        | 179         | 249          | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5850.000        | PK       | 46.18          | 32.90           | 17.71     | 38.97     | 2.10                 | 59.92           | -35.31             | 27.0        | 62.3        | 149         | 26           | -      |
| Hori.    | 5855.000        | PK       | 46.03          | 32.91           | 17.71     | 38.97     | 2.10                 | 59.78           | -35.45             | 15.6        | 51.0        | 149         | 26           | -      |
| Hori.    | 5875.000        | PK       | 45.51          | 32.96           | 17.73     | 38.98     | 2.10                 | 59.32           | -35.91             | 10.0        | 45.9        | 149         | 26           | -      |
| Hori.    | 5925.000        | PK       | 44.94          | 33.04           | 17.76     | 38.99     | 2.10                 | 58.85           | -36.38             | -27.0       | 9.3         | 149         | 26           | -      |
| Hori.    | 7766.650        | PK       | 51.44          | 36.28           | -32.55    | -         | 2.10                 | 57.27           | -37.96             | -27.0       | 10.9        | 118         | 79           | -      |
| Hori.    | 17475.000       | PK       | 46.08          | 40.28           | 12.57     | 40.18     | -9.54                | 49.21           | -46.02             | -27.0       | 19.0        | 150         | 0            | -      |
| Vert.    | 5850.000        | PK       | 45.70          | 32.90           | 17.71     | 38.97     | 2.10                 | 59.44           | -35.79             | 27.0        | 62.7        | 153         | 347          | -      |
| Vert.    | 5855.000        | PK       | 45.59          | 32.91           | 17.71     | 38.97     | 2.10                 | 59.34           | -35.89             | 15.6        | 51.4        | 153         | 347          | -      |
| Vert.    | 5875.000        | PK       | 45.16          | 32.96           | 17.73     | 38.98     | 2.10                 | 58.97           | -36.26             | 10.0        | 46.2        | 153         | 347          | -      |
| Vert.    | 5925.000        | PK       | 45.34          | 33.04           | 17.76     | 38.99     | 2.10                 | 59.25           | -35.98             | -27.0       | 8.9         | 153         | 347          | -      |
| Vert.    | 7766.512        | PK       | 50.82          | 36.28           | -32.42    | -         | 2.10                 | 56.78           | -38.45             | -27.0       | 11.4        | 176         | 113          | -      |
| Vert.    | 17475.000       | PK       | 45.70          | 40.28           | 12.57     | 40.18     | -9.54                | 48.83           | -46.40             | -27.0       | 19.4        | 150         | 0            | -      |

6.4 GHz - 10 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

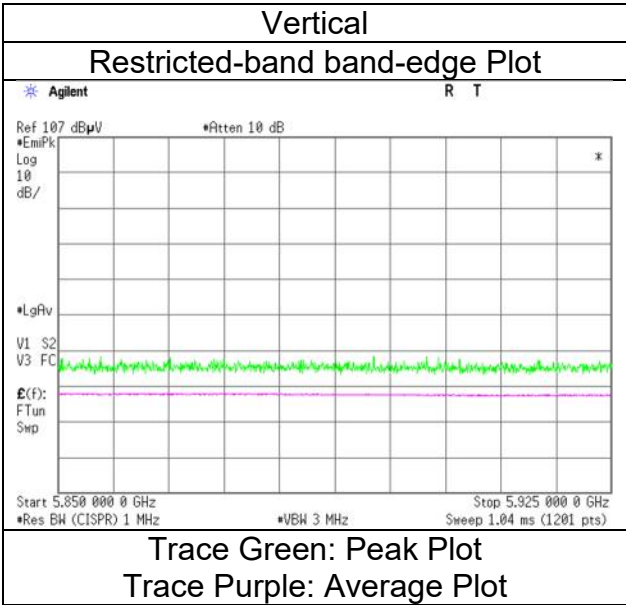
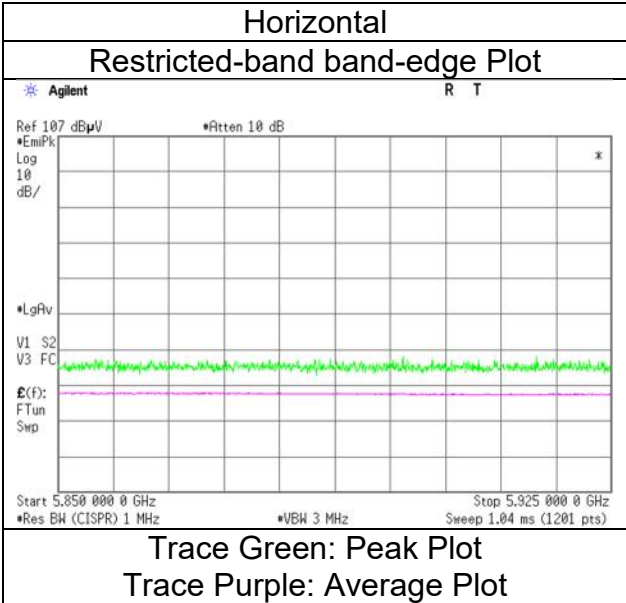
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 2                               |
| Date                   | January 6, 2024                     |
| Temperature / Humidity | 23 deg. C / 30 % RH                 |
| Engineer               | Makoto Hosaka                       |
| Mode                   | Tx 11n-20 5825 MHz                  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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 SAC 3  
Date December 25, 2023  
Temperature / Humidity 21 deg. C / 35 % RH  
Engineer Yohsuke Matsuzawa  
(1 GHz to 6.4 GHz)  
Mode Tx 11ac-20 5180 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5150.000           | PK       | 48.51             | 32.16              | 16.71        | 43.07        | 2.10                    | 56.41              | 73.9              | 17.4           | 169            | 44              | -          |
| Hori.    | 5150.000           | AV       | 37.05             | 32.16              | 16.71        | 43.07        | 2.10                    | 44.95              | 53.9              | 8.9            | 169            | 44              | VBW:200 Hz |
| Vert.    | 5150.000           | PK       | 49.26             | 32.16              | 16.71        | 43.07        | 2.10                    | 57.16              | 73.9              | 16.7           | 158            | 342             | -          |
| Vert.    | 5150.000           | AV       | 36.88             | 32.16              | 16.71        | 43.07        | 2.10                    | 44.78              | 53.9              | 9.1            | 158            | 342             | VBW:200 Hz |

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

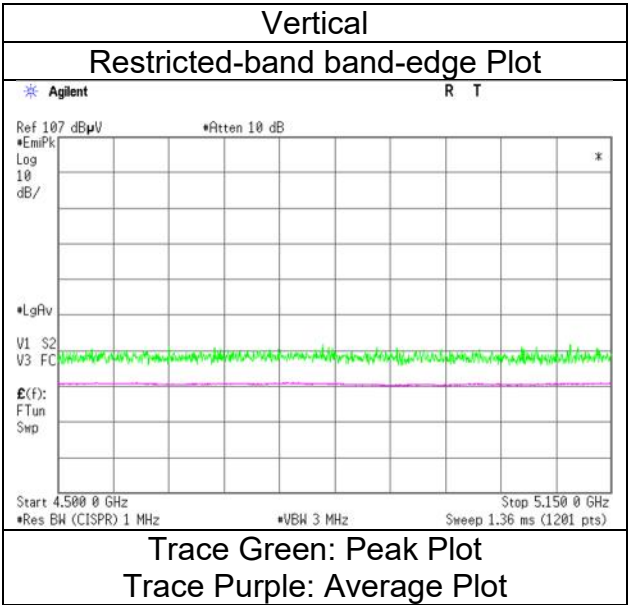
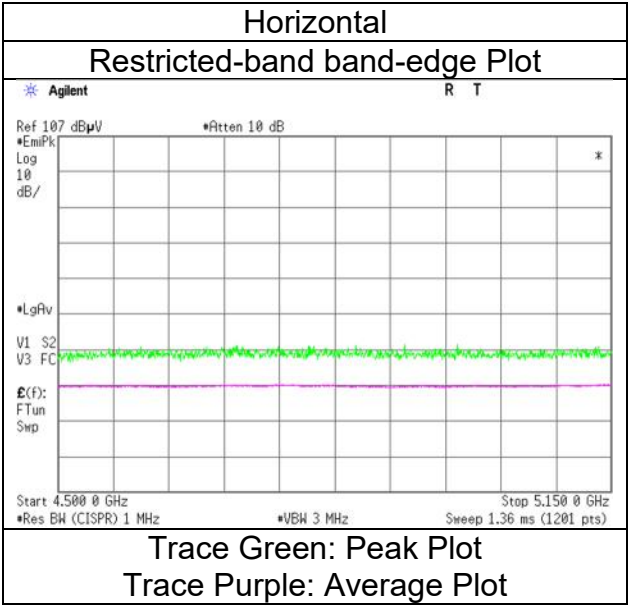
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11ac-20 5180 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11ac-20 5320 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

### (above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5350.000           | PK       | 51.83             | 31.98              | 16.83        | 43.30        | 2.10                    | 59.44              | 73.9              | 14.4           | 367            | 127             | -          |
| Hori.    | 5350.000           | AV       | 38.29             | 31.98              | 16.83        | 43.30        | 2.10                    | 45.90              | 53.9              | 8.0            | 367            | 127             | VBW:200 Hz |
| Vert.    | 5350.000           | PK       | 49.36             | 31.98              | 16.83        | 43.30        | 2.10                    | 56.97              | 73.9              | 16.9           | 224            | 1               | -          |
| Vert.    | 5350.000           | AV       | 37.88             | 31.98              | 16.83        | 43.30        | 2.10                    | 45.49              | 53.9              | 8.4            | 224            | 1               | VBW:200 Hz |

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

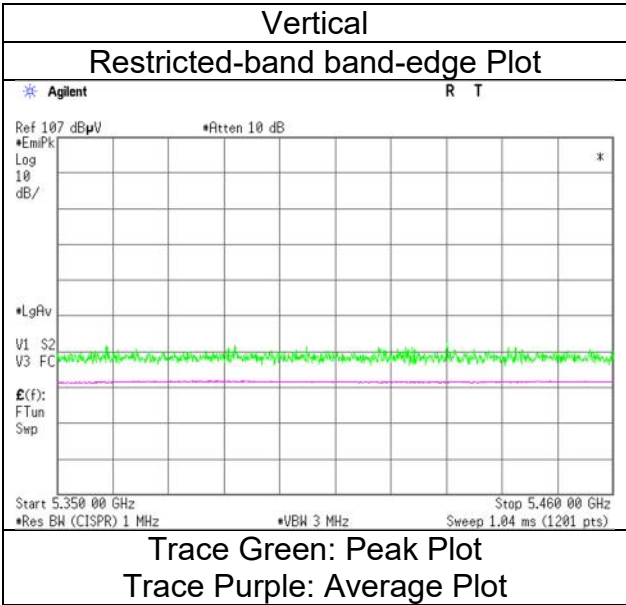
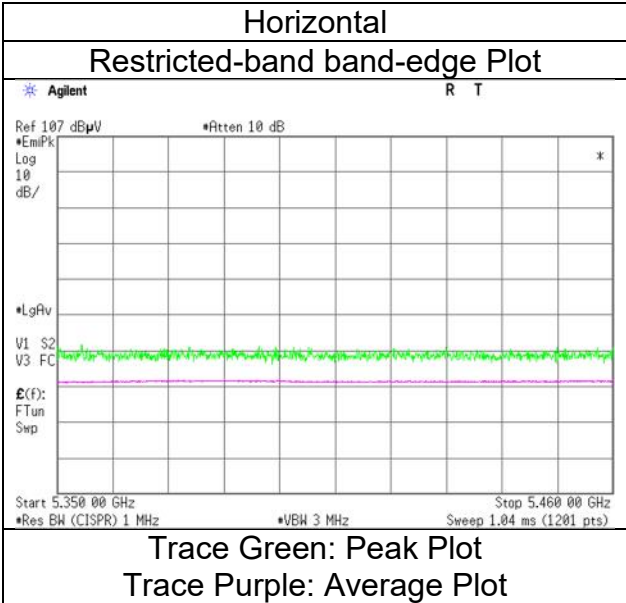
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11ac-20 5320 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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      SAC 3  
Date                              December 25, 2023  
Temperature / Humidity        21 deg. C / 35 % RH  
Engineer                        Yohsuke Matsuzawa  
                                      (1 GHz to 6.4 GHz)  
Mode                              Tx 11ac-20 5500 MHz  
Antenna type                    5G\_CH 0: monopole 5G\_CH 1: monopole

**(above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5460.000           | PK       | 50.25             | 32.24              | 16.91        | 43.42        | 2.10                    | 58.08              | 73.9              | 15.8           | 355            | 216             | -          |
| Hori.    | 5460.000           | AV       | 38.23             | 32.24              | 16.91        | 43.42        | 2.10                    | 46.06              | 53.9              | 7.8            | 355            | 216             | VBW:200 Hz |
| Vert.    | 5460.000           | PK       | 50.37             | 32.24              | 16.91        | 43.42        | 2.10                    | 58.20              | 73.9              | 15.7           | 108            | 357             | -          |
| Vert.    | 5460.000           | AV       | 37.25             | 32.24              | 16.91        | 43.42        | 2.10                    | 45.08              | 53.9              | 8.8            | 108            | 357             | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[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.    | 5470.000           | PK       | 50.31             | 32.25              | 16.92        | 43.44        | 2.10                    | 58.14              | -37.09                 | -27.0          | 10.0           | 355            | 216             | -      |
| Vert.    | 5470.000           | PK       | 50.52             | 32.25              | 16.92        | 43.44        | 2.10                    | 58.35              | -36.88                 | -27.0          | 9.8            | 108            | 357             | -      |

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

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

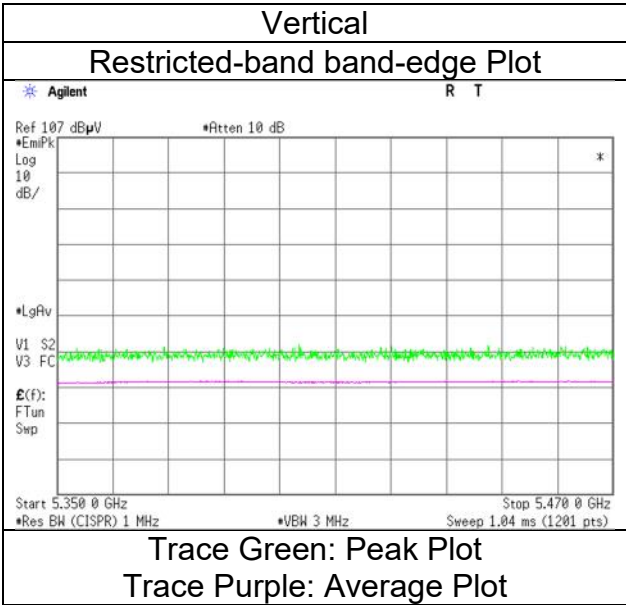
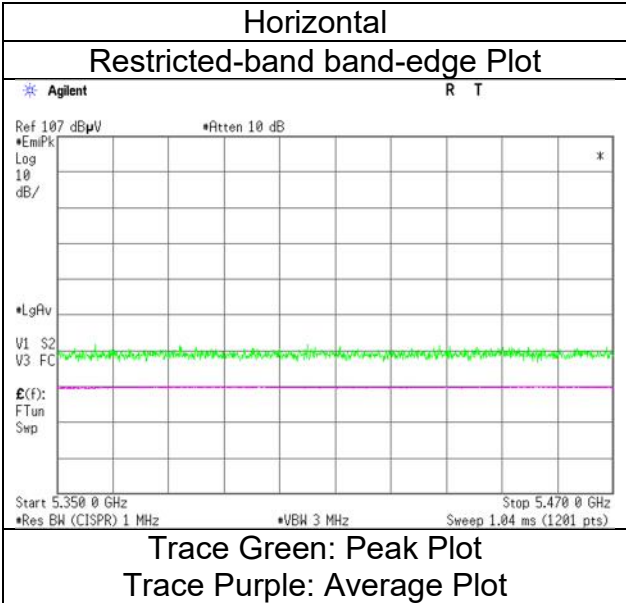
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11ac-20 5500 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11ac-20 5700 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5725.000        | PK       | 51.25          | 32.63           | 17.07     | 43.42     | 2.10                 | 59.63           | -35.60             | -27.0       | 8.6         | 344         | 23           | -      |
| Vert.    | 5725.000        | PK       | 50.00          | 32.63           | 17.07     | 43.42     | 2.10                 | 58.38           | -36.85             | -27.0       | 9.8         | 217         | 2            | -      |

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

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

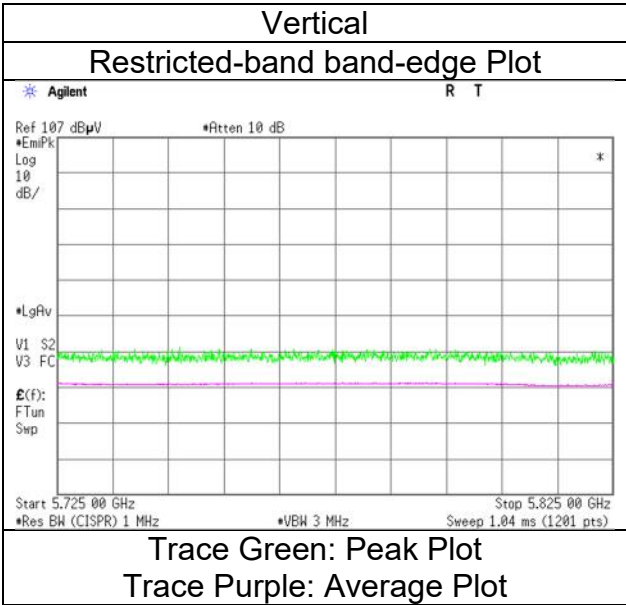
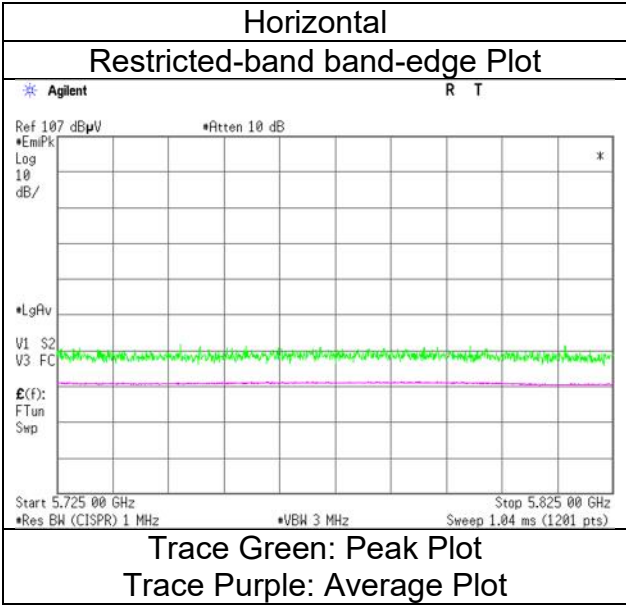
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11ac-20 5700 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11ac-20 5745 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5650.000        | PK       | 49.18          | 32.44           | 17.03     | 43.44     | 2.10                 | 57.31           | -37.92             | -27.0       | <b>10.9</b> | 362         | 121          | -      |
| Hori.    | 5700.000        | PK       | 49.22          | 32.56           | 17.05     | 43.43     | 2.10                 | 57.50           | -37.73             | 10.0        | 47.7        | 362         | 121          | -      |
| Hori.    | 5720.000        | PK       | 49.12          | 32.61           | 17.06     | 43.42     | 2.10                 | 57.47           | -37.76             | 15.6        | 53.3        | 362         | 121          | -      |
| Hori.    | 5725.000        | PK       | 49.32          | 32.63           | 17.07     | 43.42     | 2.10                 | 57.70           | -37.53             | 27.0        | 64.5        | 362         | 121          | -      |
| Vert.    | 5650.000        | PK       | 48.85          | 32.44           | 17.03     | 43.44     | 2.10                 | 56.98           | -38.25             | -27.0       | 11.2        | 165         | 206          | -      |
| Vert.    | 5700.000        | PK       | 48.77          | 32.56           | 17.05     | 43.43     | 2.10                 | 57.05           | -38.18             | 10.0        | 48.1        | 165         | 206          | -      |
| Vert.    | 5720.000        | PK       | 49.59          | 32.61           | 17.06     | 43.42     | 2.10                 | 57.94           | -37.29             | 15.6        | 52.8        | 165         | 206          | -      |
| Vert.    | 5725.000        | PK       | 49.36          | 32.63           | 17.07     | 43.42     | 2.10                 | 57.74           | -37.49             | 27.0        | 64.4        | 165         | 206          | -      |

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

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

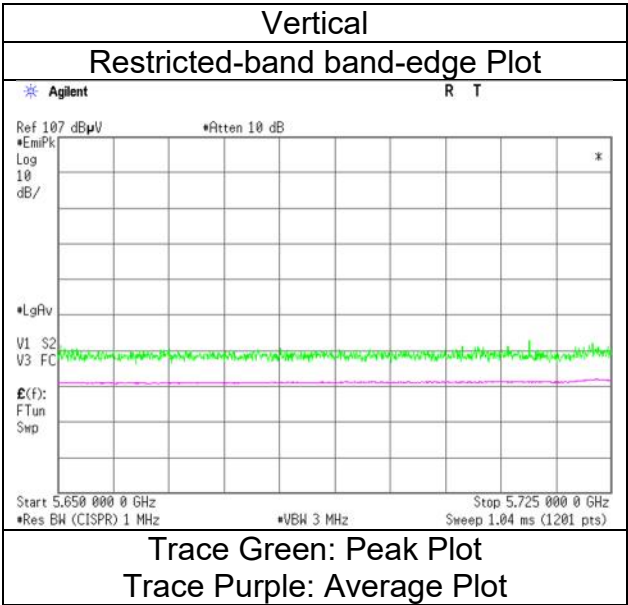
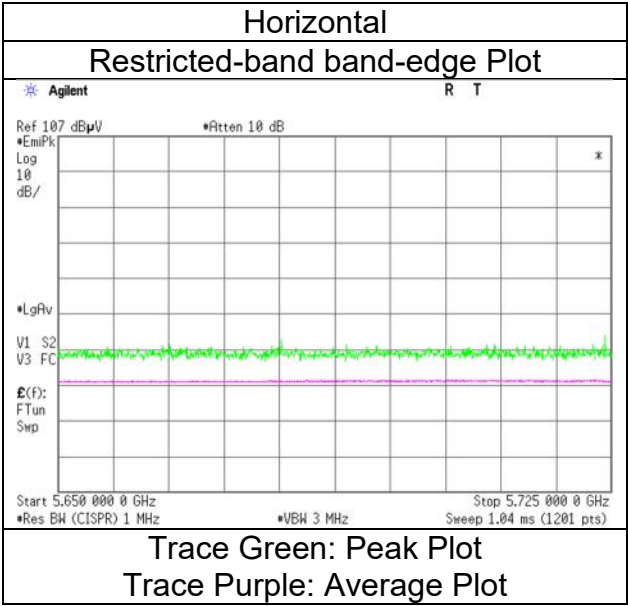
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11ac-20 5745 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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 SAC 3  
Date December 25, 2023  
Temperature / Humidity 21 deg. C / 35 % RH  
Engineer Yohsuke Matsuzawa  
(1 GHz to 6.4 GHz)  
Mode Tx 11ac-20 5825 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5850.000        | PK       | 51.25          | 32.94           | 17.14     | 43.39     | 2.10                 | 60.04           | -35.19             | 27.0        | 62.1        | 134         | 67           | -      |
| Hori.    | 5855.000        | PK       | 49.78          | 32.95           | 17.14     | 43.39     | 2.10                 | 58.58           | -36.65             | 15.6        | 52.2        | 134         | 67           | -      |
| Hori.    | 5875.000        | PK       | 49.46          | 32.98           | 17.18     | 43.39     | 2.10                 | 58.33           | -36.90             | 10.0        | 46.9        | 134         | 67           | -      |
| Hori.    | 5925.000        | PK       | 49.01          | 33.06           | 17.20     | 43.38     | 2.10                 | 57.99           | -37.24             | -27.0       | 10.2        | 134         | 67           | -      |
| Vert.    | 5850.000        | PK       | 49.52          | 32.94           | 17.05     | 43.39     | 2.10                 | 58.22           | -37.01             | 27.0        | 64.0        | 113         | 225          | -      |
| Vert.    | 5855.000        | PK       | 48.49          | 32.95           | 17.05     | 43.39     | 2.10                 | 57.20           | -38.03             | 15.6        | 53.6        | 113         | 225          | -      |
| Vert.    | 5875.000        | PK       | 48.65          | 32.98           | 17.08     | 43.39     | 2.10                 | 57.42           | -37.81             | 10.0        | 47.8        | 113         | 225          | -      |
| Vert.    | 5925.000        | PK       | 48.99          | 33.06           | 17.10     | 43.38     | 2.10                 | 57.87           | -37.36             | -27.0       | 10.3        | 113         | 225          | -      |

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

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

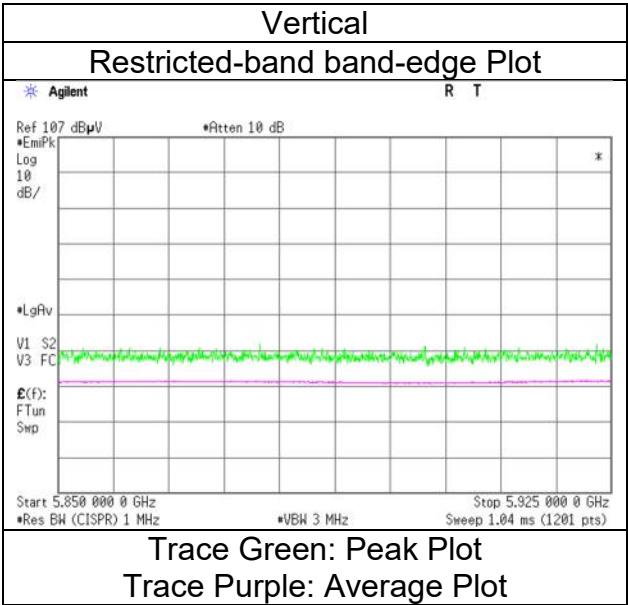
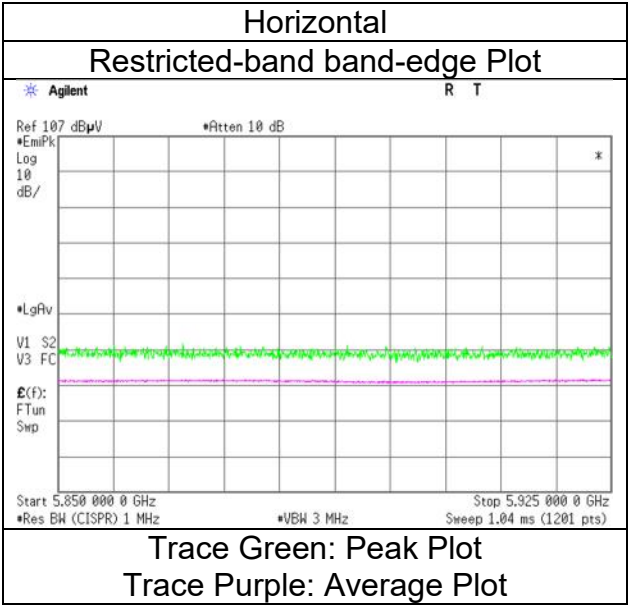
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  | SAC 3                               |
| Date                   | December 25, 2023                   |
| Temperature / Humidity | 21 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11ac-20 5825 MHz                 |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  
Date March 7, 2024 March 8, 2024 December 20, 2023  
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH  
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami  
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)  
Mode Tx 11ax-20(OFDM) 5180 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (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.                                     | 5150.000        | PK       | 48.62          | 31.86           | -24.90    | -         | 2.10                 | 57.68           | 73.9           | 16.2        | 210         | 53           | -                        |
| Hori.                                     | 15540.000       | PK       | 46.46          | 39.48           | 11.65     | 40.53     | -9.54                | 47.52           | 73.9           | 26.3        | 150         | 0            | -                        |
| Hori.                                     | 5150.000        | AV       | 35.37          | 31.86           | -24.90    | -         | 2.10                 | 44.43           | 53.9           | 9.4         | 210         | 53           | VBW: 200 Hz              |
| Hori.                                     | 15540.000       | AV       | 35.39          | 39.48           | 11.65     | 40.53     | -9.54                | 36.45           | 53.9           | 17.4        | 150         | 0            | VBW: 200 Hz, Floor noise |
| Vert.                                     | 5150.000        | PK       | 48.74          | 31.86           | -24.90    | -         | 2.10                 | 57.80           | 73.9           | 16.1        | 134         | 205          | -                        |
| Vert.                                     | 15540.000       | PK       | 46.55          | 39.48           | 11.65     | 40.53     | -9.54                | 47.61           | 73.9           | 26.2        | 150         | 0            | -                        |
| Vert.                                     | 5150.000        | AV       | 34.65          | 31.86           | -24.90    | -         | 2.10                 | 43.71           | 53.9           | 10.1        | 134         | 205          | VBW: 200 Hz              |
| Vert.                                     | 15540.000       | AV       | 35.28          | 39.48           | 11.65     | 40.53     | -9.54                | 36.34           | 53.9           | 17.5        | 150         | 0            | VBW: 200 Hz, Floor noise |

1 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
| Hori.                                     | 6906.598        | PK       | 53.60          | 35.14           | -32.62    | -         | 2.10                 | 58.22           | -37.01             | -27.0       | 10.0        | 177         | 67           | -      |
| Hori.                                     | 10360.000       | PK       | 57.93          | 36.36           | 9.37      | 42.84     | -9.54                | 51.28           | -43.95             | -27.0       | 16.9        | 203         | 203          | -      |
| Vert.                                     | 6906.598        | PK       | 52.80          | 35.14           | -32.62    | -         | 2.10                 | 57.42           | -37.81             | -27.0       | 10.8        | 150         | 4            | -      |
| Vert.                                     | 10360.000       | PK       | 57.73          | 36.36           | 9.37      | 42.84     | -9.54                | 51.08           | -44.15             | -27.0       | 17.1        | 208         | 246          | -      |

1 GHz - 10 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

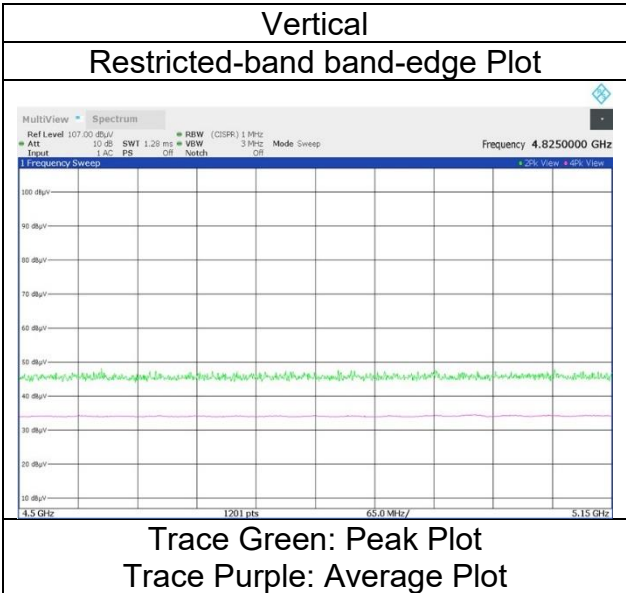
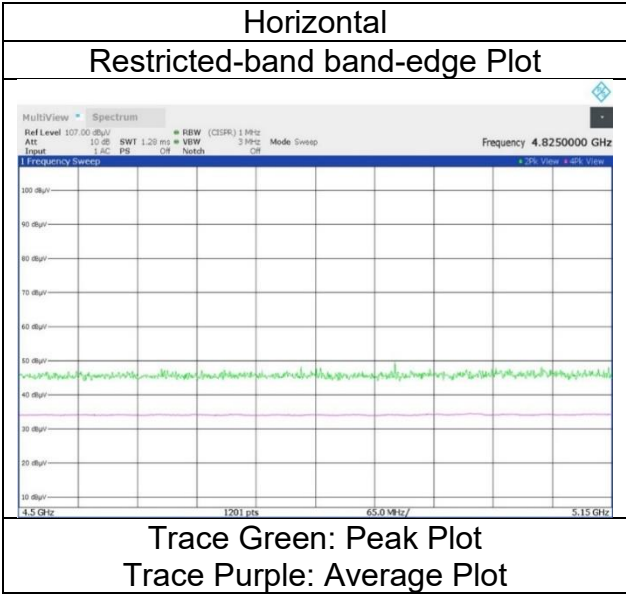
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | March 7, 2024                       |
| Temperature / Humidity | 22 deg. C / 30 % RH                 |
| Engineer               | Takayuki Kobayashi                  |
| Mode                   | Tx 11ax-20(OFDM) 5180 MHz           |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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                                  |
| Date                   | March 7, 2024                            | March 8, 2024                             | December 20, 2023                     |
| Temperature / Humidity | 22 deg. C / 30 % RH                      | 22 deg. C / 35 % RH                       | 21 deg. C / 26 % RH                   |
| Engineer               | Takayuki Kobayashi<br>(1 GHz to 6.4 GHz) | Takayuki Kobayashi<br>(6.4 GHz to 10 GHz) | Yosuke Murakami<br>(10 GHz to 18 GHz) |
| Mode                   | Tx 11ax-20(OFDM) 5240 MHz                |                                           |                                       |
| Antenna type           | 5G CH 0: monopole 5G CH 1: monopole      |                                           |                                       |

(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.    | 15720.000       | PK       | 47.48          | 39.63            | 11.60     | 40.56     | -9.54                | 48.61           | 73.9           | 25.2        | 150         | 0            | -                        |
| Hori.    | 15720.000       | AV       | 34.98          | 39.63            | 11.60     | 40.56     | -9.54                | 36.11           | 53.9           | 17.7        | 150         | 0            | VBW: 200 Hz, Floor noise |
| Vert.    | 15720.000       | PK       | 47.69          | 39.63            | 11.60     | 40.56     | -9.54                | 48.82           | 73.9           | 25.0        | 150         | 0            | -                        |
| Vert.    | 15720.000       | AV       | 35.07          | 39.63            | 11.60     | 40.56     | -9.54                | 36.20           | 53.9           | 17.7        | 150         | 0            | VBW: 200 Hz, Floor noise |

|                                                                                                                              |           |    |       |       |       |       |       |       |      |  |
|------------------------------------------------------------------------------------------------------------------------------|-----------|----|-------|-------|-------|-------|-------|-------|------|--|
| Vert.                                                                                                                        | 15720.000 | AV | 55.07 | 55.05 | 11.00 | 40.50 | -9.54 | 50.20 | 55.9 |  |
| Result [dBuV/m] = 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 :  $20\log (3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Result (ERP)<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-----------------------|----------------|----------------|----------------|-----------------|--------|
| Hori.    | 6986.367           | PK       | 53.66             | 35.60              | -32.61       | -            | 2.10                    | 58.75              | -36.48                | -27.0          | <b>9.4</b>     | 124            | 70              | -      |
| Hori.    | 10480.000          | PK       | 54.61             | 36.51              | 9.40         | 42.84        | -9.54                   | 48.14              | -47.09                | -27.0          | 20.0           | 203            | 204             | -      |
| Vert.    | 6986.367           | PK       | 53.39             | 35.60              | -32.61       | -            | 2.10                    | 58.48              | -36.75                | -27.0          | 9.7            | 105            | 113             | -      |
| Vert.    | 10480.000          | PK       | 54.74             | 36.51              | 9.40         | 42.84        | -9.54                   | 48.27              | -46.96                | -27.0          | 19.9           | 198            | 237             | -      |

1 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log (3.82 \text{ m} / 3.0 \text{ m}) = 2.10 \text{ dB}$

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

**Radiated Spurious Emission**

|                        |                                     |                     |                     |
|------------------------|-------------------------------------|---------------------|---------------------|
| Test place             | Shonan EMC Lab.                     |                     |                     |
| Semi Anechoic Chamber  | WAC1                                | WAC1                | WAC1                |
| Date                   | March 7, 2024                       | March 8, 2024       | December 20, 2023   |
| Temperature / Humidity | 22 deg. C / 30 % RH                 | 22 deg. C / 35 % RH | 21 deg. C / 26 % RH |
| Engineer               | Takayuki Kobayashi                  | Takayuki Kobayashi  | Yosuke Murakami     |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  |
| Mode                   | Tx 11ax-20(OFDM) 5320 MHz           |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |

**(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.                                     | 5350.000        | PK       | 50.00          | 31.58           | -24.65    | -         | 2.10                 | 59.03           | 73.9           | 14.8        | 112         | 38           | -                        |
| Hori.                                     | 10640.000       | PK       | 52.06          | 37.12           | 9.46      | 42.86     | -9.54                | 46.24           | 73.9           | 27.6        | 201         | 225          | -                        |
| Hori.                                     | 15960.000       | PK       | 45.98          | 40.08           | 11.53     | 40.60     | -9.54                | 47.45           | 73.9           | 26.4        | 150         | 0            | -                        |
| Hori.                                     | 5350.000        | AV       | 34.15          | 31.58           | -24.65    | -         | 2.10                 | 43.18           | 53.9           | 10.7        | 112         | 38           | VBW: 200 Hz              |
| Hori.                                     | 10640.000       | AV       | 39.33          | 37.12           | 9.46      | 42.86     | -9.54                | 33.51           | 53.9           | 20.3        | 201         | 225          | VBW: 200 Hz              |
| Hori.                                     | 15960.000       | AV       | 33.99          | 40.08           | 11.53     | 40.60     | -9.54                | 35.46           | 53.9           | 18.4        | 150         | 0            | VBW: 200 Hz, Floor noise |
| Vert.                                     | 5350.000        | PK       | 50.01          | 31.58           | -24.65    | -         | 2.10                 | 59.04           | 73.9           | 14.8        | 148         | 216          | -                        |
| Vert.                                     | 10640.000       | PK       | 53.00          | 37.12           | 9.46      | 42.86     | -9.54                | 47.18           | 73.9           | 26.7        | 203         | 240          | -                        |
| Vert.                                     | 15960.000       | PK       | 46.25          | 40.08           | 11.53     | 40.60     | -9.54                | 47.72           | 73.9           | 26.1        | 150         | 0            | -                        |
| Vert.                                     | 5350.000        | AV       | 34.36          | 31.58           | -24.65    | -         | 2.10                 | 43.39           | 53.9           | 10.5        | 148         | 216          | VBW: 200 Hz              |
| Vert.                                     | 10640.000       | AV       | 40.45          | 37.12           | 9.46      | 42.86     | -9.54                | 34.63           | 53.9           | 19.2        | 203         | 240          | VBW: 200 Hz              |
| Vert.                                     | 15960.000       | AV       | 33.97          | 40.08           | 11.53     | 40.60     | -9.54                | 35.44           | 53.9           | 18.4        | 150         | 0            | VBW: 200 Hz, Floor noise |

1 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
| Hori.                                     | 7092.994        | PK       | 54.08          | 36.07           | -32.47    | -         | 2.10                 | 59.78           | -35.45             | -27.0       | 8.4         | 105         | 68           | -      |
| Vert.                                     | 7092.994        | PK       | 54.16          | 36.07           | -32.47    | -         | 2.10                 | 59.86           | -35.37             | -27.0       | 8.3         | 175         | 81           | -      |

1 GHz - 10 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

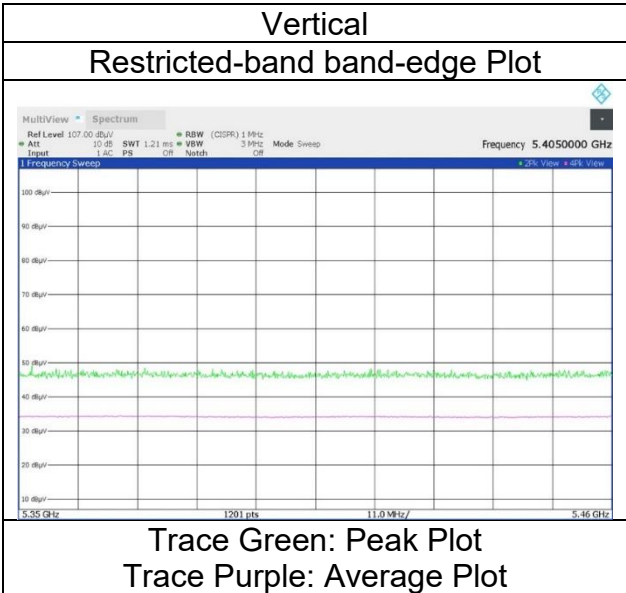
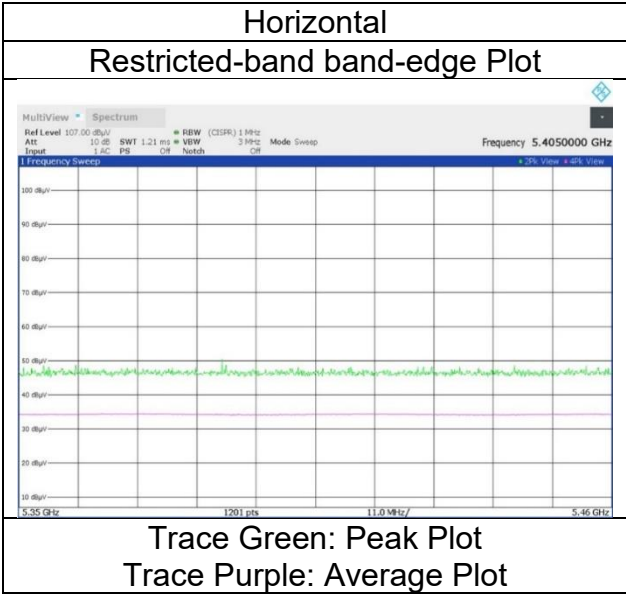
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | March 7, 2024                       |
| Temperature / Humidity | 22 deg. C / 30 % RH                 |
| Engineer               | Takayuki Kobayashi                  |
| Mode                   | Tx 11ax-20(OFDM) 5320 MHz           |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  
Date March 7, 2024 March 8, 2024 December 20, 2023  
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH  
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami  
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)  
Mode Tx 11ax-20(OFDM) 5500 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

**(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.    | 5460.000        | PK       | 48.25          | 31.78           | -24.51    | -         | 2.10                 | 57.62           | 73.9           | 16.2        | 203         | 35           | -          |
| Hori.    | 7333.333        | PK       | 49.37          | 36.28           | -32.10    | -         | 2.10                 | 55.65           | 73.9           | 18.2        | 100         | 59           | -          |
| Hori.    | 11000.000       | PK       | 49.52          | 37.58           | 9.59      | 42.90     | -9.54                | 44.25           | 73.9           | 29.6        | 189         | 209          | -          |
| Hori.    | 5460.000        | AV       | 34.46          | 31.78           | -24.51    | -         | 2.10                 | 43.83           | 53.9           | 10.0        | 203         | 35           | VBW:200 Hz |
| Hori.    | 11000.000       | AV       | 37.38          | 37.58           | 9.59      | 42.90     | -9.54                | 32.11           | 53.9           | 21.7        | 189         | 209          | VBW:200 Hz |
| Vert.    | 5460.000        | PK       | 49.27          | 31.78           | -24.51    | -         | 2.10                 | 58.64           | 73.9           | 15.2        | 148         | 217          | -          |
| Vert.    | 7333.333        | PK       | 49.87          | 36.28           | -32.10    | -         | 2.10                 | 56.15           | 73.9           | 17.7        | 152         | 190          | -          |
| Vert.    | 11000.000       | PK       | 48.94          | 37.58           | 9.59      | 42.90     | -9.54                | 43.67           | 73.9           | 30.2        | 195         | 245          | -          |
| Vert.    | 5460.000        | AV       | 34.40          | 31.78           | -24.51    | -         | 2.10                 | 43.77           | 53.9           | 10.1        | 148         | 217          | VBW:200 Hz |
| Vert.    | 11000.000       | AV       | 36.69          | 37.58           | 9.59      | 42.90     | -9.54                | 31.42           | 53.9           | 22.4        | 195         | 245          | VBW:200 Hz |

1 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5470.000        | PK       | 48.19          | 31.79           | -24.50    | -         | 2.10                 | 57.58           | -37.65             | -27.0       | 10.6        | 203         | 35           | -      |
| Hori.    | 6599.943        | PK       | 50.72          | 34.30           | -32.65    | -         | 2.10                 | 54.47           | -40.76             | -27.0       | 13.7        | 149         | 62           | -      |
| Hori.    | 16500.000       | PK       | 47.07          | 40.19           | 12.29     | 40.65     | -9.54                | 49.36           | -45.87             | -27.0       | 18.8        | 150         | 0            | -      |
| Vert.    | 5470.000        | PK       | 48.78          | 31.79           | -24.50    | -         | 2.10                 | 58.17           | -37.06             | -27.0       | 10.0        | 148         | 217          | -      |
| Vert.    | 6599.943        | PK       | 51.81          | 34.30           | -32.65    | -         | 2.10                 | 55.56           | -39.67             | -27.0       | 12.6        | 173         | 194          | -      |
| Vert.    | 16500.000       | PK       | 47.23          | 40.19           | 12.29     | 40.65     | -9.54                | 49.52           | -45.71             | -27.0       | 18.7        | 150         | 0            | -      |

1 GHz - 10 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

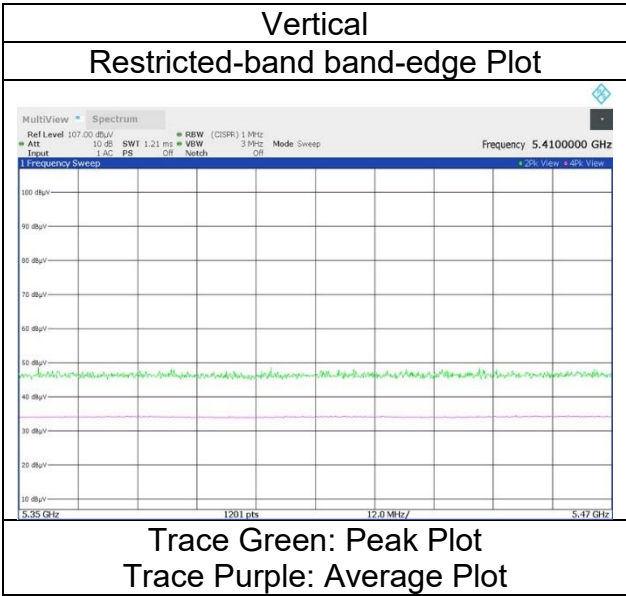
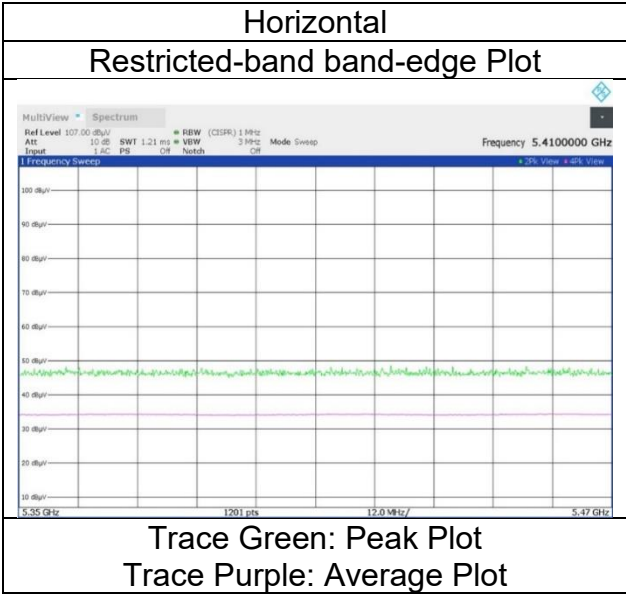
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | March 7, 2024                       |
| Temperature / Humidity | 22 deg. C / 30 % RH                 |
| Engineer               | Takayuki Kobayashi                  |
| Mode                   | Tx 11ax-20(OFDM) 5500 MHz           |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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  
Date March 7, 2024 March 8, 2024 December 20, 2023  
Temperature / Humidity 22 deg. C / 30 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH  
Engineer Takayuki Kobayashi Takayuki Kobayashi Yosuke Murakami  
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)  
Mode Tx 11ax-20(OFDM) 5580 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### (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.    | 7440.938        | PK       | 49.41          | 36.45           | -31.94    | -         | 2.10                 | 56.02           | 73.9           | 17.8        | 100         | 64           | -          |
| Hori.    | 11160.000       | PK       | 48.04          | 37.72           | 9.68      | 42.80     | -9.54                | 43.10           | 73.9           | 30.8        | 192         | 225          | -          |
| Hori.    | 11160.000       | AV       | 35.70          | 37.72           | 9.68      | 42.80     | -9.54                | 30.76           | 53.9           | 23.1        | 192         | 225          | VBW:200 Hz |
| Vert.    | 7440.938        | PK       | 49.79          | 36.45           | -31.94    | -         | 2.10                 | 56.40           | 73.9           | 17.5        | 148         | 201          | -          |
| Vert.    | 11160.000       | PK       | 47.96          | 37.72           | 9.68      | 42.80     | -9.54                | 43.02           | 73.9           | 30.8        | 174         | 256          | -          |
| Vert.    | 11160.000       | AV       | 35.42          | 37.72           | 9.68      | 42.80     | -9.54                | 30.48           | 53.9           | 23.4        | 174         | 256          | VBW:200 Hz |

Result [dBuV/m] = 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 16740.000       | PK       | 46.34          | 39.61           | 12.39     | 40.57     | -9.54                | 48.23           | -47.00              | -27.0       | 20.0        | 150         | 0            | -      |
| Vert.    | 16740.000       | PK       | 46.76          | 39.61           | 12.39     | 40.57     | -9.54                | 48.65           | -46.58              | -27.0       | 19.5        | 150         | 0            | -      |

1 GHz - 10 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + 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 :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                |
| Date                   | March 7, 2024                       | March 8, 2024       | December 20, 2023   |
| Temperature / Humidity | 22 deg. C / 30 % RH                 | 22 deg. C / 35 % RH | 21 deg. C / 26 % RH |
| Engineer               | Takayuki Kobayashi                  | Takayuki Kobayashi  | Yosuke Murakami     |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  |
| Mode                   | Tx 11ax-20(OFDM) 5700 MHz           |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |

### (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.    | 7599.947        | PK       | 49.11          | 36.25           | -31.78    | -         | 2.10                 | 55.68           | 73.9           | 18.2        | 155         | 60           | -          |
| Hori.    | 11400.000       | PK       | 47.97          | 38.26           | 9.80      | 42.64     | -9.54                | 43.85           | 73.9           | 30.0        | 206         | 241          | -          |
| Hori.    | 11400.000       | AV       | 35.40          | 38.26           | 9.80      | 42.64     | -9.54                | 31.28           | 53.9           | 22.6        | 206         | 241          | VBW:200 Hz |
| Vert.    | 7599.947        | PK       | 48.99          | 36.25           | -31.78    | -         | 2.10                 | 55.56           | 73.9           | 18.3        | 179         | 191          | -          |
| Vert.    | 11400.000       | PK       | 47.82          | 38.26           | 9.80      | 42.64     | -9.54                | 43.70           | 73.9           | 30.2        | 146         | 241          | -          |
| Vert.    | 11400.000       | AV       | 35.35          | 38.26           | 9.80      | 42.64     | -9.54                | 31.23           | 53.9           | 22.6        | 146         | 241          | VBW:200 Hz |

1 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5725.000        | PK       | 49.71          | 32.01           | -24.39    | -         | 2.10                 | 59.43           | -35.80             | -27.0       | 8.8         | 126         | 44           | -      |
| Hori.    | 17100.000       | PK       | 46.33          | 39.85           | 12.51     | 40.42     | -9.54                | 48.73           | -46.50             | -27.0       | 19.5        | 150         | 0            | -      |
| Vert.    | 5725.000        | PK       | 51.54          | 32.01           | -24.39    | -         | 2.10                 | 61.26           | -33.97             | -27.0       | 6.9         | 162         | 213          | -      |
| Vert.    | 17100.000       | PK       | 46.24          | 39.85           | 12.51     | 40.42     | -9.54                | 48.64           | -46.59             | -27.0       | 19.5        | 150         | 0            | -      |

1 GHz - 10 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

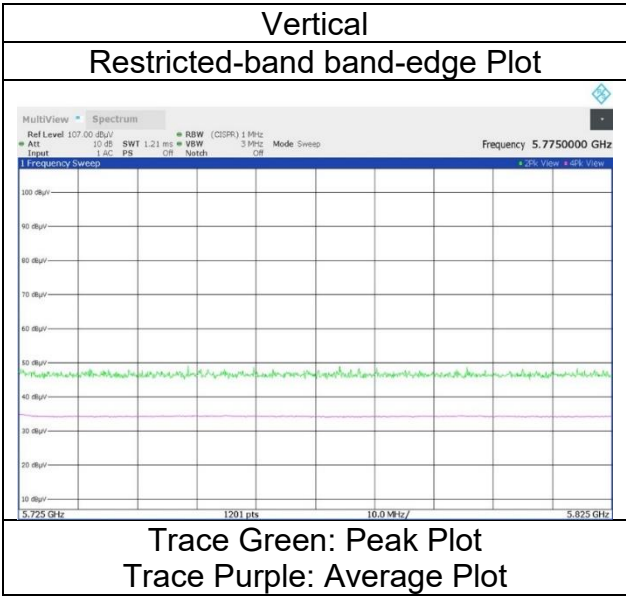
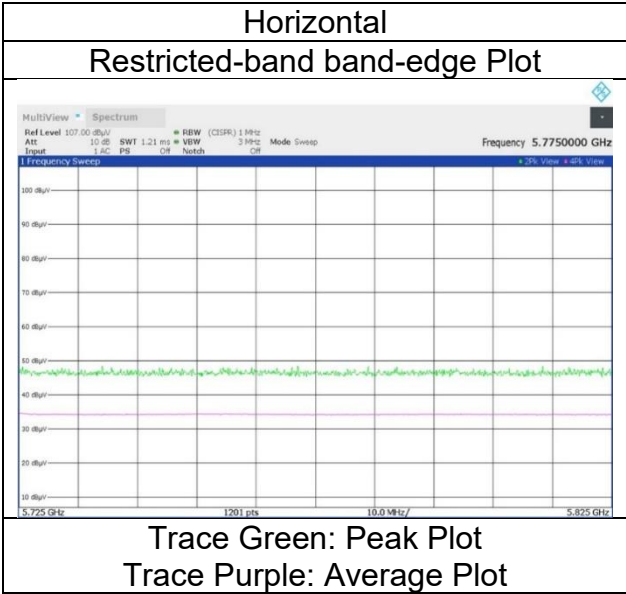
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | March 7, 2024                       |
| Temperature / Humidity | 22 deg. C / 30 % RH                 |
| Engineer               | Takayuki Kobayashi                  |
| Mode                   | Tx 11ax-20(OFDM) 5700 MHz           |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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                |
| Date                   | March 8, 2024                       | March 8, 2024       | December 20, 2023   |
| Temperature / Humidity | 23 deg. C / 35 % RH                 | 22 deg. C / 35 % RH | 21 deg. C / 26 % RH |
| Engineer               | Yohsuke Matsuzawa                   | Takayuki Kobayashi  | Yosuke Murakami     |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  |
| Mode                   | Tx 11ax-20(OFDM) 5745 MHz           |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |

### (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.    | 7659.936        | PK       | 49.49          | 36.19           | -31.73    | -         | 2.10                 | 56.05           | 73.9           | 17.8        | 188         | 61           | -          |
| Hori.    | 11490.000       | PK       | 48.80          | 38.32           | 9.86      | 42.59     | -9.54                | 44.85           | 73.9           | 29.0        | 202         | 282          | -          |
| Hori.    | 11490.000       | AV       | 36.38          | 38.32           | 9.86      | 42.59     | -9.54                | 32.43           | 53.9           | 21.4        | 202         | 282          | VBW:200 Hz |
| Vert.    | 7659.936        | PK       | 49.33          | 36.19           | -31.73    | -         | 2.10                 | 55.89           | 73.9           | 18.0        | 137         | 108          | -          |
| Vert.    | 11490.000       | PK       | 47.84          | 38.32           | 9.86      | 42.59     | -9.54                | 43.89           | 73.9           | 30.0        | 199         | 264          | -          |
| Vert.    | 11490.000       | AV       | 35.67          | 38.32           | 9.86      | 42.59     | -9.54                | 31.72           | 53.9           | 22.1        | 199         | 264          | VBW:200 Hz |

1 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5650.000        | PK       | 48.56          | 31.84           | -24.41    | -         | 2.10                 | 58.09           | -37.14             | -27.0       | 10.1        | 164         | 21           | -      |
| Hori.    | 5700.000        | PK       | 48.38          | 31.95           | -24.39    | -         | 2.10                 | 58.04           | -37.19             | 10.0        | 47.1        | 164         | 21           | -      |
| Hori.    | 5715.000        | PK       | 48.53          | 31.98           | -24.39    | -         | 2.10                 | 58.22           | -37.01             | 14.2        | 51.2        | 164         | 21           | -      |
| Hori.    | 5720.000        | PK       | 50.21          | 31.99           | -24.38    | -         | 2.10                 | 59.92           | -35.31             | 15.6        | 50.9        | 164         | 21           | -      |
| Hori.    | 5725.000        | PK       | 49.57          | 32.01           | -24.39    | -         | 2.10                 | 59.29           | -35.94             | 27.0        | 62.9        | 164         | 21           | -      |
| Hori.    | 17235.000       | PK       | 46.36          | 40.07           | 12.53     | 40.33     | -9.54                | 49.09           | -46.14             | -27.0       | 19.1        | 150         | 0            | -      |
| Vert.    | 5650.000        | PK       | 48.53          | 31.84           | -24.41    | -         | 2.10                 | 58.06           | -37.17             | -27.0       | 10.1        | 157         | 347          | -      |
| Vert.    | 5700.000        | PK       | 48.65          | 31.95           | -24.39    | -         | 2.10                 | 58.31           | -36.92             | 10.0        | 46.9        | 157         | 347          | -      |
| Vert.    | 5715.000        | PK       | 48.53          | 31.98           | -24.39    | -         | 2.10                 | 58.22           | -37.01             | 14.2        | 51.2        | 157         | 347          | -      |
| Vert.    | 5720.000        | PK       | 50.33          | 31.99           | -24.38    | -         | 2.10                 | 60.04           | -35.19             | 15.6        | 50.7        | 157         | 347          | -      |
| Vert.    | 5725.000        | PK       | 49.68          | 32.01           | -24.39    | -         | 2.10                 | 59.40           | -35.83             | 27.0        | 62.8        | 157         | 347          | -      |
| Vert.    | 17235.000       | PK       | 45.97          | 40.07           | 12.53     | 40.33     | -9.54                | 48.70           | -46.53             | -27.0       | 19.5        | 150         | 0            | -      |

1 GHz - 10 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

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

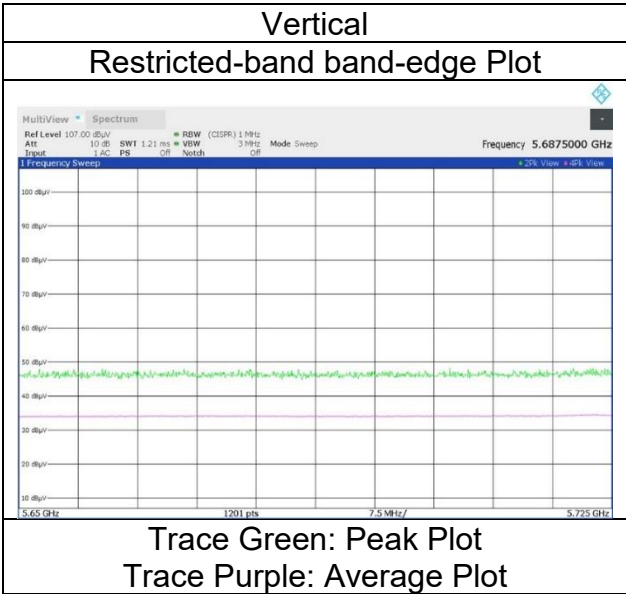
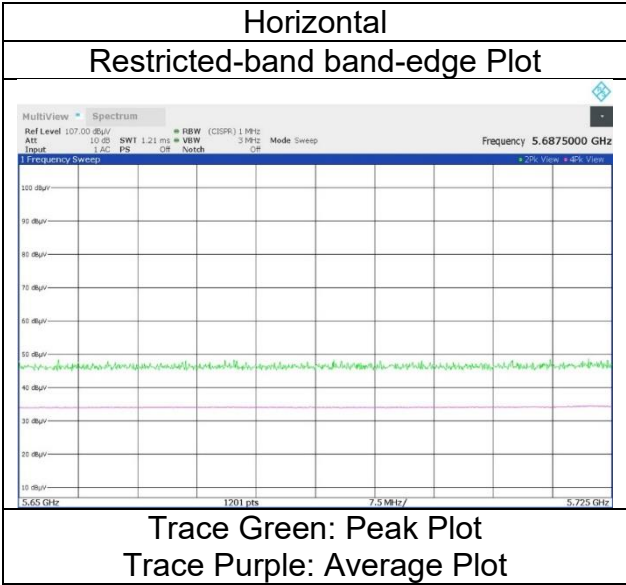
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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  
Mode  
Antenna type

Shonan EMC Lab.  
WAC1  
March 8, 2024  
23 deg. C / 35 % RH  
Yohsuke Matsuzawa  
Tx 11ax-20(OFDM) 5745 MHz  
5G\_CH 0: monopole 5G\_CH 1: monopole



\* 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  
Date March 8, 2024 March 8, 2024 December 20, 2023  
Temperature / Humidity 23 deg. C / 35 % RH 22 deg. C / 35 % RH 21 deg. C / 26 % RH  
Engineer Yohsuke Matsuzawa Takayuki Kobayashi Yosuke Murakami  
(1 GHz to 6.4 GHz) (6.4 GHz to 10 GHz) (10 GHz to 18 GHz)  
Mode Tx 11ax-20(OFDM) 5785 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

**(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.    | 7713.520        | PK       | 48.59          | 36.21           | -31.69    | -         | 2.10                 | 55.21           | 73.9           | 18.6        | 170         | 68           | -          |
| Hori.    | 11570.000       | PK       | 50.03          | 38.33           | 9.89      | 42.55     | -9.54                | 46.16           | 73.9           | 27.7        | 121         | 208          | -          |
| Hori.    | 11570.000       | AV       | 37.22          | 38.33           | 9.89      | 42.55     | -9.54                | 33.35           | 53.9           | 20.5        | 121         | 208          | VBW:200 Hz |
| Vert.    | 7713.520        | PK       | 48.86          | 36.21           | -31.69    | -         | 2.10                 | 55.48           | 73.9           | 18.4        | 146         | 112          | -          |
| Vert.    | 11570.000       | PK       | 48.91          | 38.33           | 9.89      | 42.55     | -9.54                | 45.04           | 73.9           | 28.8        | 178         | 265          | -          |
| Vert.    | 11570.000       | AV       | 36.97          | 38.33           | 9.89      | 42.55     | -9.54                | 33.10           | 53.9           | 20.8        | 178         | 265          | VBW:200 Hz |

1 GHz - 10 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (EIRP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|---------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 17355.000       | PK       | 46.69          | 40.18           | 12.55     | 40.26     | -9.54                | 49.62           | -45.61              | -27.0       | 18.6        | 150         | 0            | -      |
| Vert.    | 17355.000       | PK       | 46.90          | 40.18           | 12.55     | 40.26     | -9.54                | 49.83           | -45.40              | -27.0       | 18.4        | 150         | 0            | -      |

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

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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                |
| Date                   | March 8, 2024                       | March 8, 2024       | December 20, 2023   |
| Temperature / Humidity | 23 deg. C / 35 % RH                 | 22 deg. C / 35 % RH | 21 deg. C / 26 % RH |
| Engineer               | Yohsuke Matsuzawa                   | Takayuki Kobayashi  | Yosuke Murakami     |
|                        | (1 GHz to 6.4 GHz)                  | (6.4 GHz to 10 GHz) | (10 GHz to 18 GHz)  |
| Mode                   | Tx 11ax-20(OFDM) 5825 MHz           |                     |                     |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |                     |                     |

### (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.    | 11650.000       | PK       | 49.57          | 38.33           | 9.94      | 42.51     | -9.54                | 45.79           | 73.9           | 28.1        | 193         | 204          | -          |
| Hori.    | 11650.000       | AV       | 37.11          | 38.33           | 9.94      | 42.51     | -9.54                | 33.33           | 53.9           | 20.5        | 193         | 204          | VBW:200 Hz |
| Vert.    | 11650.000       | PK       | 49.35          | 38.33           | 9.94      | 42.51     | -9.54                | 45.57           | 73.9           | 28.3        | 173         | 259          | -          |
| Vert.    | 11650.000       | AV       | 37.31          | 38.33           | 9.94      | 42.51     | -9.54                | 33.53           | 53.9           | 20.3        | 173         | 259          | VBW:200 Hz |

Result [dBuV/m] = 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 (3.82 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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5850.000        | PK       | 48.68          | 32.33           | -24.33    | -         | 2.10                 | 58.78           | -36.45             | 27.0        | 63.4        | 142         | 34           | -      |
| Hori.    | 5855.000        | PK       | 47.85          | 32.34           | -24.32    | -         | 2.10                 | 57.97           | -37.26             | 15.6        | 52.8        | 142         | 34           | -      |
| Hori.    | 5860.000        | PK       | 48.57          | 32.35           | -24.33    | -         | 2.10                 | 58.69           | -36.54             | 14.2        | 50.7        | 142         | 34           | -      |
| Hori.    | 5875.000        | PK       | 48.36          | 32.38           | -24.32    | -         | 2.10                 | 58.52           | -36.71             | 10.0        | 46.7        | 142         | 34           | -      |
| Hori.    | 5925.000        | PK       | 48.62          | 32.46           | -24.31    | -         | 2.10                 | 58.87           | -36.36             | -27.0       | 9.3         | 142         | 34           | -      |
| Hori.    | 7766.123        | PK       | 48.56          | 36.28           | -31.64    | -         | 2.10                 | 55.30           | -39.93             | -27.0       | 12.9        | 151         | 4            | -      |
| Hori.    | 17475.000       | PK       | 46.46          | 40.28           | 12.57     | 40.18     | -9.54                | 49.59           | -45.64             | -27.0       | 18.6        | 150         | 0            | -      |
| Vert.    | 5850.000        | PK       | 48.15          | 32.33           | -24.33    | -         | 2.10                 | 58.25           | -36.98             | 27.0        | 63.9        | 100         | 201          | -      |
| Vert.    | 5855.000        | PK       | 48.32          | 32.34           | -24.32    | -         | 2.10                 | 58.44           | -36.79             | 15.6        | 52.3        | 100         | 201          | -      |
| Vert.    | 5860.000        | PK       | 48.36          | 32.35           | -24.33    | -         | 2.10                 | 58.48           | -36.75             | 14.2        | 50.9        | 100         | 201          | -      |
| Vert.    | 5875.000        | PK       | 48.87          | 32.38           | -24.32    | -         | 2.10                 | 59.03           | -36.20             | 10.0        | 46.2        | 100         | 201          | -      |
| Vert.    | 5925.000        | PK       | 48.83          | 32.46           | -24.31    | -         | 2.10                 | 59.08           | -36.15             | -27.0       | 9.1         | 100         | 201          | -      |
| Vert.    | 7766.123        | PK       | 48.46          | 36.28           | -31.64    | -         | 2.10                 | 55.20           | -40.03             | -27.0       | 13.0        | 149         | 10           | -      |
| Vert.    | 17475.000       | PK       | 46.44          | 40.28           | 12.57     | 40.18     | -9.54                | 49.57           | -45.66             | -27.0       | 18.6        | 150         | 0            | -      |

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

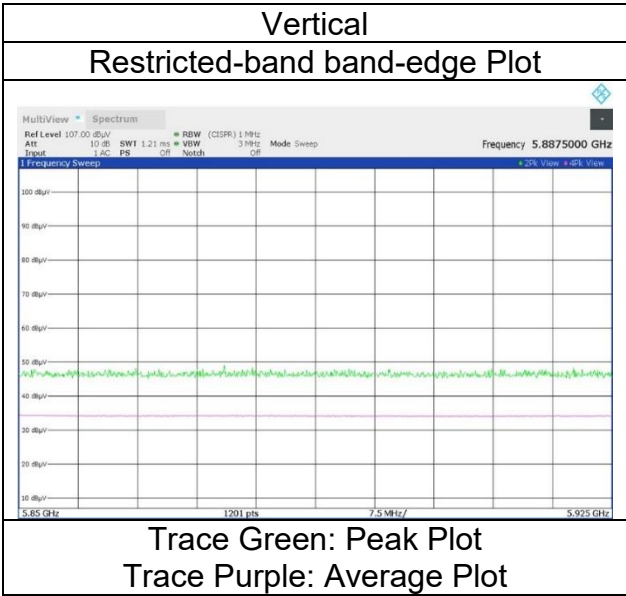
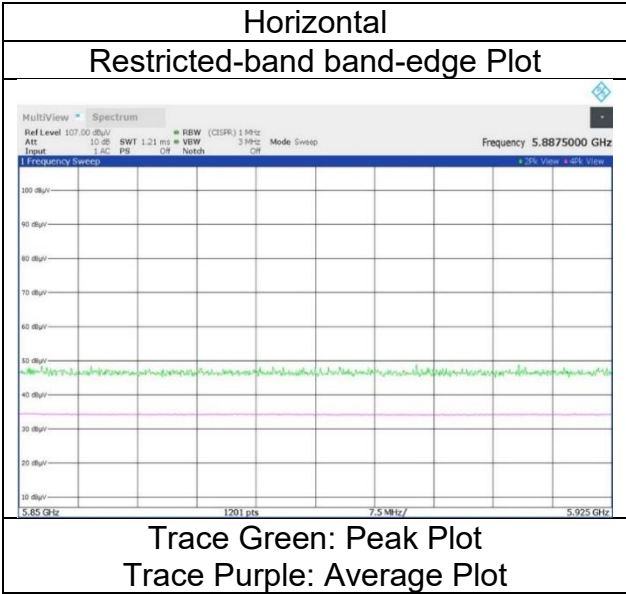
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).

Distance factor : 1 GHz - 10 GHz : 20log (3.82 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                   | March 8, 2024                       |
| Temperature / Humidity | 23 deg. C / 35 % RH                 |
| Engineer               | Yohsuke Matsuzawa                   |
| Mode                   | Tx 11ax-20(OFDM) 5825 MHz           |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |



\* 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                              April 17, 2024  
Temperature / Humidity        21 deg. C / 58 % RH  
Engineer                        Kenichi Adachi  
                                        (1 GHz to 6.4 GHz)  
Mode                              Tx 11ax-20(OFDMA) 26-tone 5180 MHz  
Antenna type                    5G\_CH 0: monopole 5G\_CH 1: monopole

**Index 0**  
**(above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5150.000           | PK       | 47.30             | 31.86              | -25.53       | -            | 2.10                    | 55.73              | 73.9              | 18.1           | 165            | 343             | -          |
| Hori.    | 5150.000           | AV       | 35.02             | 31.86              | -25.53       | -            | 2.10                    | 43.45              | 53.9              | 10.4           | 165            | 343             | VBW: 1 kHz |
| Vert.    | 5150.000           | PK       | 46.70             | 31.86              | -25.53       | -            | 2.10                    | 55.13              | 73.9              | 18.7           | 129            | 343             | -          |
| Vert.    | 5150.000           | AV       | 35.12             | 31.86              | -25.53       | -            | 2.10                    | 43.55              | 53.9              | 10.3           | 129            | 343             | VBW: 1 kHz |

1 GHz - 6.4 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

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

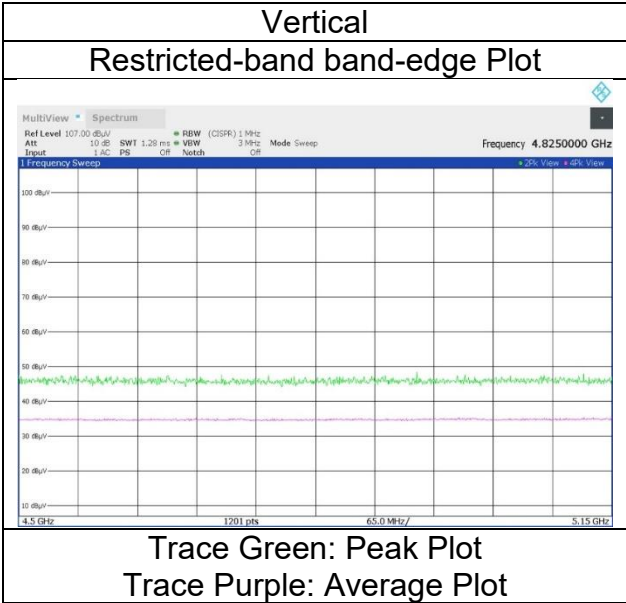
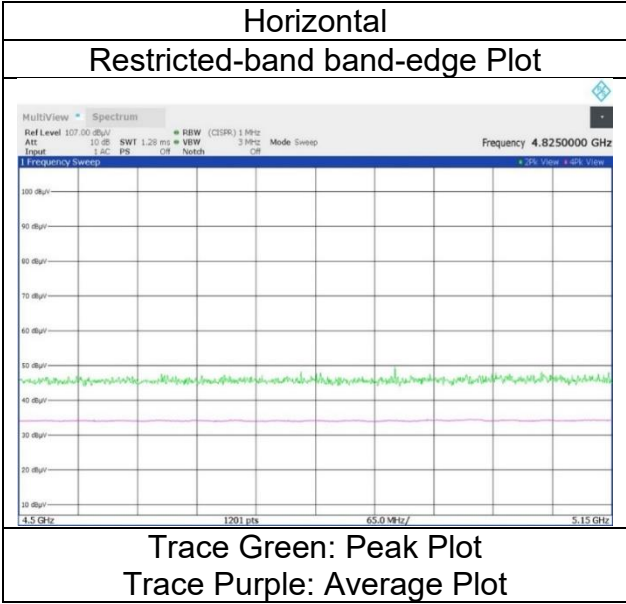
Distance factor : 1 GHz - 10 GHz : 20log (3.82 m / 3.0 m) = 2.10 dB

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 26-tone 5180 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 26-tone 5320 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

### Index 8

#### (above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5350.000           | PK       | 51.11             | 31.58              | -25.29       | -            | 2.10                    | 59.50              | 73.9              | 14.4           | 168            | 332             | -          |
| Hori.    | 5350.000           | AV       | 34.81             | 31.58              | -25.29       | -            | 2.10                    | 43.20              | 53.9              | 10.7           | 168            | 332             | VBW: 1 kHz |
| Vert.    | 5350.000           | PK       | 47.51             | 31.58              | -25.29       | -            | 2.10                    | 55.90              | 73.9              | 18.0           | 150            | 352             | -          |
| Vert.    | 5350.000           | AV       | 34.81             | 31.58              | -25.29       | -            | 2.10                    | 43.20              | 53.9              | 10.7           | 150            | 352             | VBW: 1 kHz |

1 GHz - 6.4 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

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

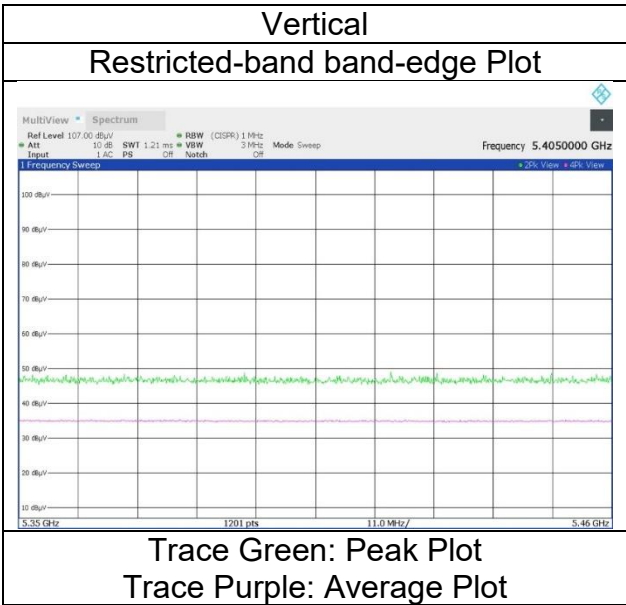
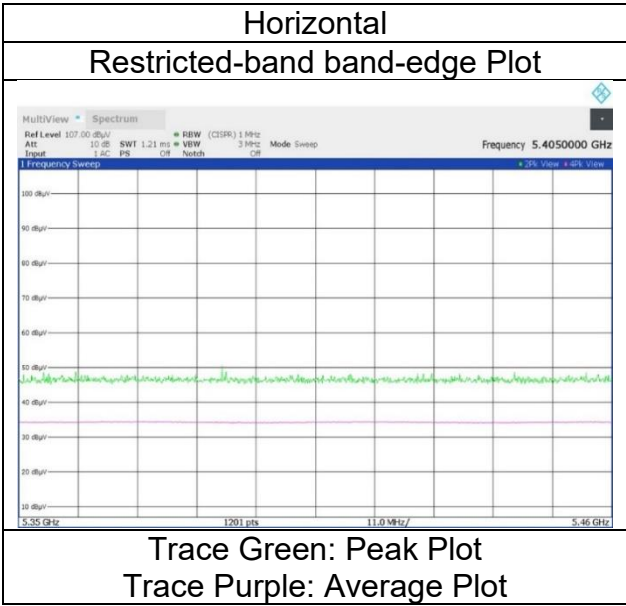
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 26-tone 5320 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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                              April 17, 2024  
Temperature / Humidity        21 deg. C / 58 % RH  
Engineer                        Kenichi Adachi  
                                         (1 GHz to 6.4 GHz)  
Mode                              Tx 11ax-20(OFDMA) 26-tone 5500 MHz  
Antenna type                    5G\_CH 0: monopole 5G\_CH 1: monopole

**Index 0**  
**(above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5460.000           | PK       | 46.12             | 31.78              | -25.16       | -            | 2.10                    | 54.84              | 73.9              | 19.0           | 239            | 342             | -          |
| Hori.    | 5460.000           | AV       | 34.63             | 31.78              | -25.16       | -            | 2.10                    | 43.35              | 53.9              | 10.5           | 239            | 342             | VBW: 1 kHz |
| Vert.    | 5460.000           | PK       | 47.07             | 31.78              | -25.16       | -            | 2.10                    | 55.79              | 73.9              | 18.1           | 144            | 344             | -          |
| Vert.    | 5460.000           | AV       | 34.98             | 31.78              | -25.16       | -            | 2.10                    | 43.70              | 53.9              | 10.2           | 144            | 344             | VBW: 1 kHz |

1 GHz - 6.4 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Result (ERP)<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-----------------------|----------------|----------------|----------------|-----------------|--------|
| Hori.    | 5470.000           | PK       | 47.64             | 31.79              | -25.15       | -            | 2.10                    | 56.38              | -38.85                | -27.0          | 11.8           | 239            | 342             | -      |
| Vert.    | 5470.000           | PK       | 46.20             | 31.79              | -25.15       | -            | 2.10                    | 54.94              | -40.29                | -27.0          | 13.2           | 144            | 344             | -      |

1 GHz - 6.4 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

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

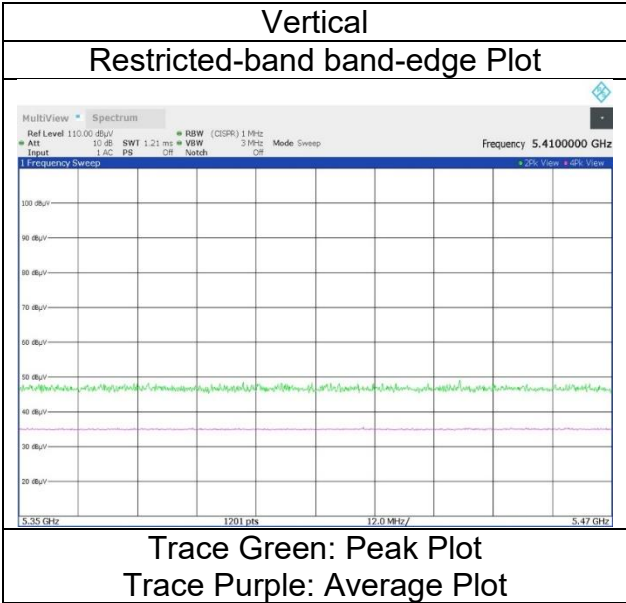
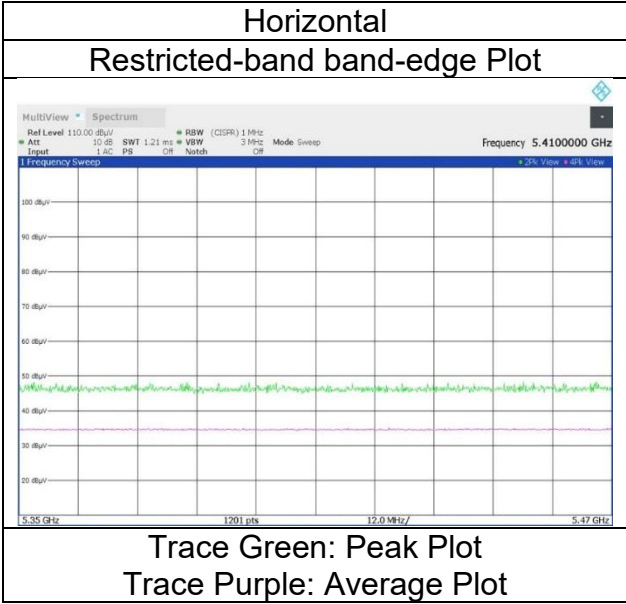
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 26-tone 5500 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 26-tone 5700 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

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**(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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Result (ERP)<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-----------------------|----------------|----------------|----------------|-----------------|--------|
| Hori.    | 5725.000           | PK       | 47.38             | 32.01              | -25.06       | -            | 2.10                    | 56.43              | -38.80                | -27.0          | 11.8           | 244            | 28              | -      |
| Vert.    | 5725.000           | PK       | 46.32             | 32.01              | -25.06       | -            | 2.10                    | 55.37              | -39.86                | -27.0          | 12.8           | 139            | 356             | -      |

1 GHz - 6.4 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

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

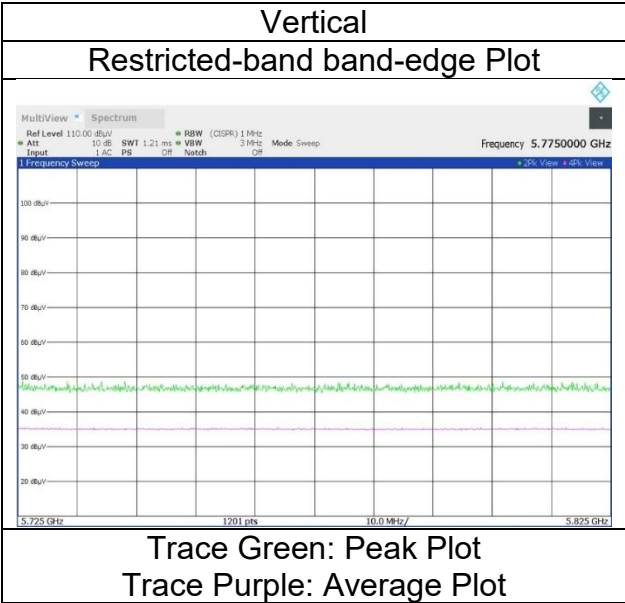
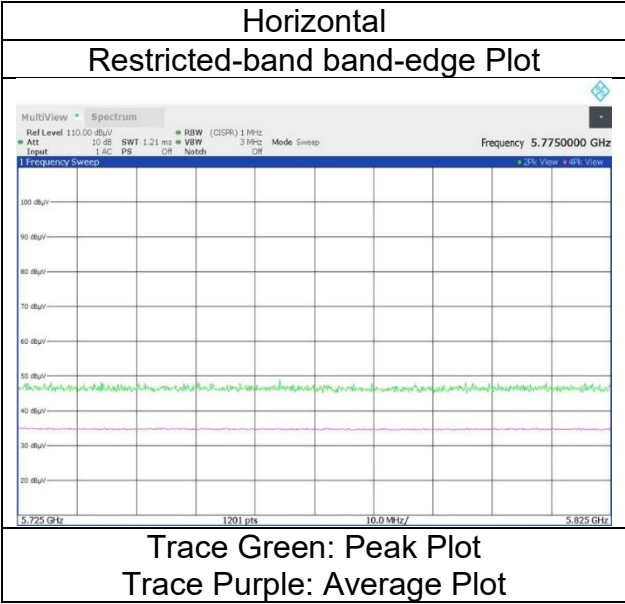
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 26-tone 5700 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 26-tone 5745 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

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#### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5650.000        | PK       | 46.69          | 31.84           | -25.07    | -         | 2.10                 | 55.56           | -39.67             | -27.0       | 12.6        | 150         | 343          | -      |
| Hori.    | 5700.000        | PK       | 46.71          | 31.95           | -25.06    | -         | 2.10                 | 55.70           | -39.53             | 10.0        | 49.5        | 150         | 343          | -      |
| Hori.    | 5715.000        | PK       | 47.60          | 31.98           | -25.06    | -         | 2.10                 | 56.62           | -38.61             | 14.2        | 52.8        | 150         | 343          | -      |
| Hori.    | 5720.000        | PK       | 47.22          | 31.99           | -25.05    | -         | 2.10                 | 56.26           | -38.97             | 15.6        | 54.5        | 150         | 343          | -      |
| Hori.    | 5725.000        | PK       | 46.36          | 32.01           | -25.06    | -         | 2.10                 | 55.41           | -39.82             | 27.0        | 66.8        | 150         | 343          | -      |
| Vert.    | 5650.000        | PK       | 46.33          | 31.84           | -25.07    | -         | 2.10                 | 55.20           | -40.03             | -27.0       | 13.0        | 159         | 341          | -      |
| Vert.    | 5700.000        | PK       | 46.78          | 31.95           | -25.06    | -         | 2.10                 | 55.77           | -39.46             | 10.0        | 49.4        | 159         | 341          | -      |
| Vert.    | 5715.000        | PK       | 46.40          | 31.98           | -25.06    | -         | 2.10                 | 55.42           | -39.81             | 14.2        | 54.0        | 159         | 341          | -      |
| Vert.    | 5720.000        | PK       | 46.75          | 31.99           | -25.05    | -         | 2.10                 | 55.79           | -39.44             | 15.6        | 55.0        | 159         | 341          | -      |
| Vert.    | 5725.000        | PK       | 47.75          | 32.01           | -25.06    | -         | 2.10                 | 56.80           | -38.43             | 27.0        | 65.4        | 159         | 341          | -      |

1 GHz - 6.4 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

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

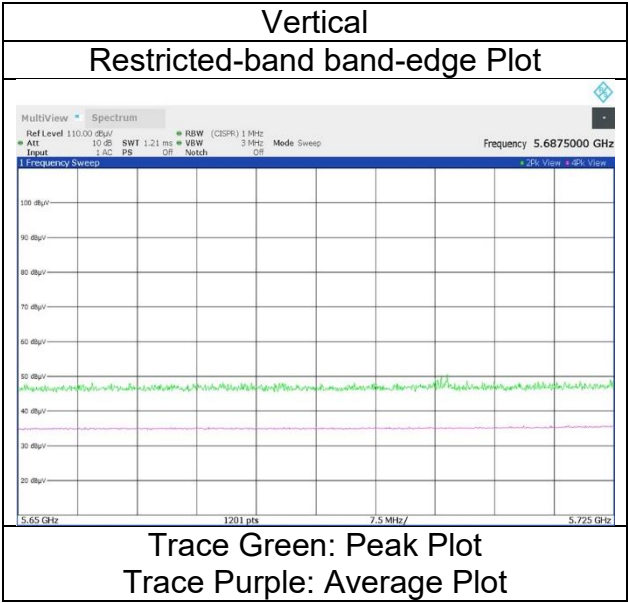
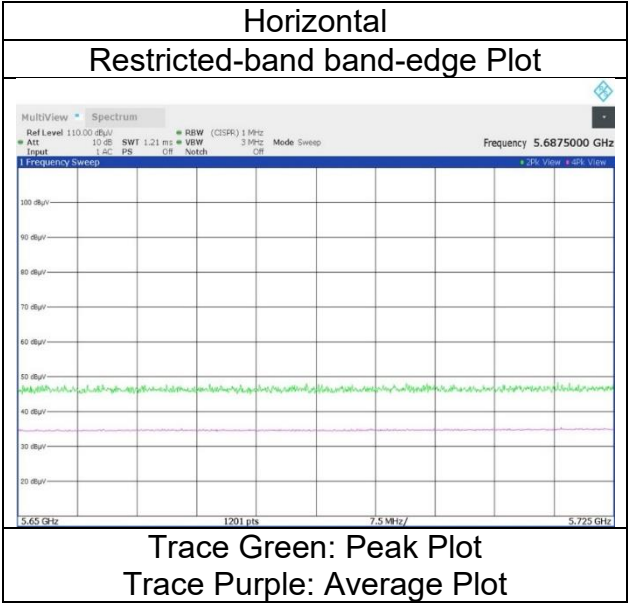
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 26-tone 5745 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 26-tone 5825 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

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#### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5850.000        | PK       | 47.22          | 32.33           | -25.01    | -         | 2.10                 | 56.64           | -38.59             | 27.0        | 65.5        | 150         | 163          | -      |
| Hori.    | 5855.000        | PK       | 46.07          | 32.34           | -25.00    | -         | 2.10                 | 55.51           | -39.72             | 15.6        | 55.3        | 150         | 163          | -      |
| Hori.    | 5860.000        | PK       | 45.80          | 32.35           | -25.01    | -         | 2.10                 | 55.24           | -39.99             | 14.2        | 54.1        | 150         | 163          | -      |
| Hori.    | 5875.000        | PK       | 46.26          | 32.38           | -25.00    | -         | 2.10                 | 55.74           | -39.49             | 10.0        | 49.4        | 150         | 163          | -      |
| Hori.    | 5925.000        | PK       | 46.36          | 32.46           | -24.99    | -         | 2.10                 | 55.93           | -39.30             | -27.0       | 12.3        | 150         | 163          | -      |
| Vert.    | 5850.000        | PK       | 47.87          | 32.33           | -25.01    | -         | 2.10                 | 57.29           | -37.94             | 27.0        | 64.9        | 223         | 193          | -      |
| Vert.    | 5855.000        | PK       | 47.85          | 32.34           | -25.00    | -         | 2.10                 | 57.29           | -37.94             | 15.6        | 53.5        | 223         | 193          | -      |
| Vert.    | 5860.000        | PK       | 47.15          | 32.35           | -25.01    | -         | 2.10                 | 56.59           | -38.64             | 14.2        | 52.8        | 223         | 193          | -      |
| Vert.    | 5875.000        | PK       | 46.62          | 32.38           | -25.00    | -         | 2.10                 | 56.10           | -39.13             | 10.0        | 49.1        | 223         | 193          | -      |
| Vert.    | 5925.000        | PK       | 46.84          | 32.46           | -24.99    | -         | 2.10                 | 56.41           | -38.82             | -27.0       | 11.8        | 223         | 193          | -      |

1 GHz - 6.4 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

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

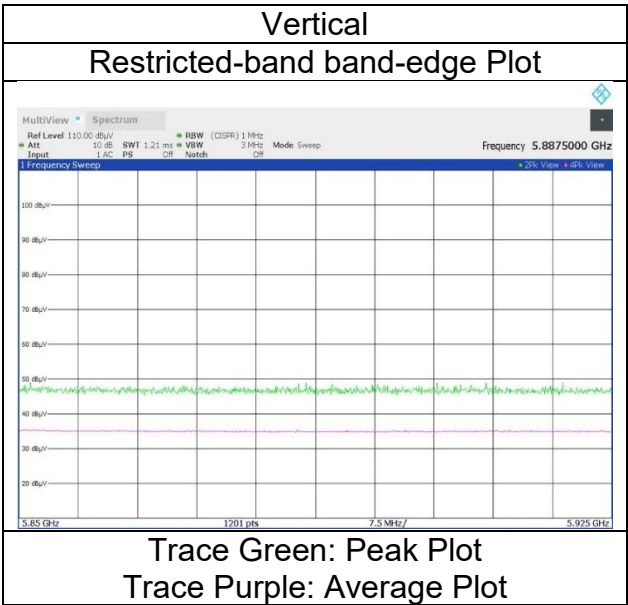
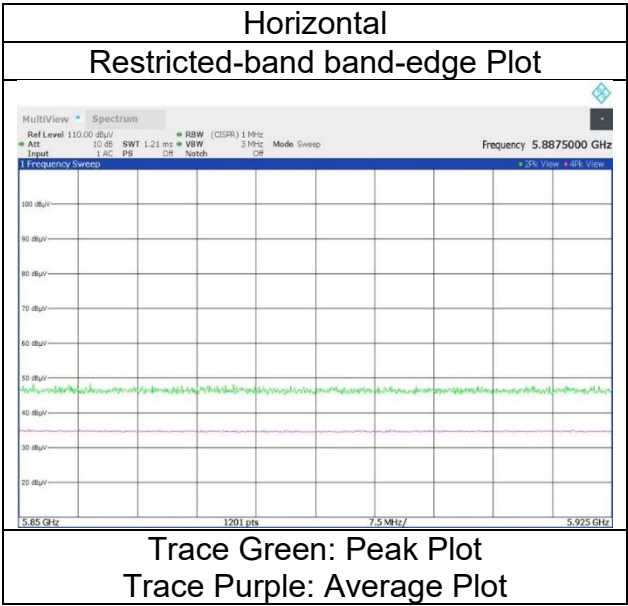
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 26-tone 5825 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 52-tone 5180 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

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(above 1 GHz Inside of the restricted band)

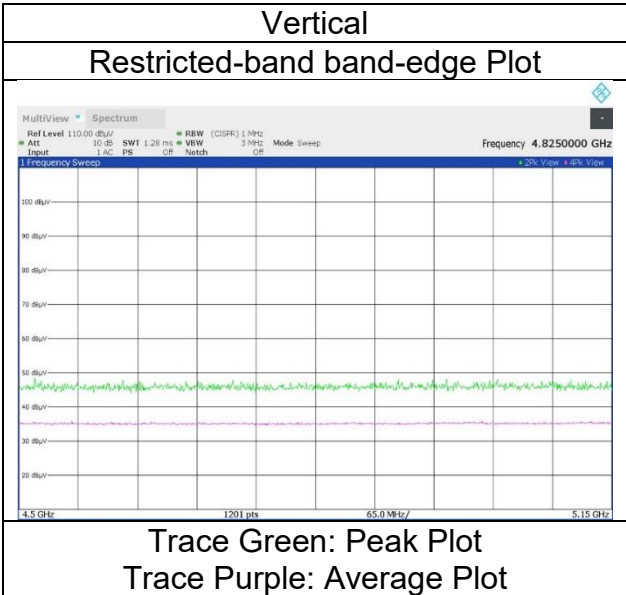
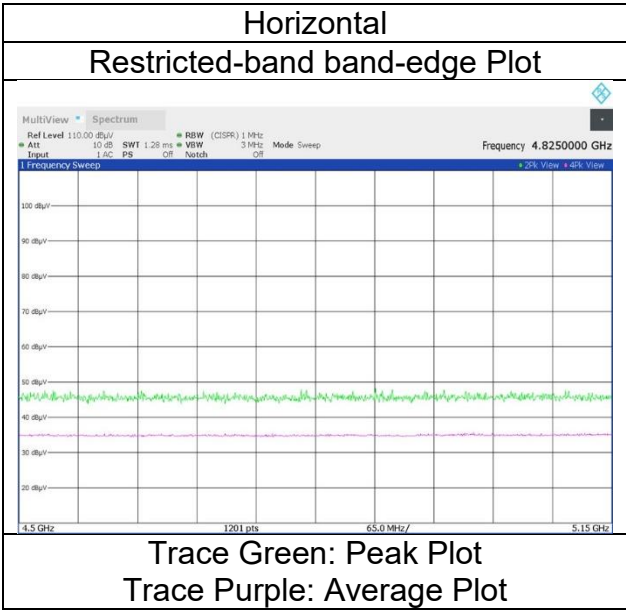
| (* PK: Peak, AV: Average, QP: Quasi-Peak) |                    |          |                   |                    |              |              |                         |                    |                   |                |                |                 |            |
|-------------------------------------------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Polarity                                  | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
| Hori.                                     | 5150.000           | PK       | 47.16             | 31.86              | -25.53       | -            | 2.10                    | 55.59              | 73.9              | 18.3           | 128            | 339             | -          |
| Hori.                                     | 5150.000           | AV       | 35.34             | 31.86              | -25.53       | -            | 2.10                    | 43.77              | 53.9              | 10.1           | 128            | 339             | VBW: 2 kHz |
| Vert.                                     | 5150.000           | PK       | 47.21             | 31.86              | -25.53       | -            | 2.10                    | 55.64              | 73.9              | 18.2           | 227            | 339             | -          |
| Vert.                                     | 5150.000           | AV       | 35.18             | 31.86              | -25.53       | -            | 2.10                    | 43.61              | 53.9              | 10.2           | 227            | 339             | VBW: 2 kHz |

1 GHz - 6.4 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  
\*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 (3.82 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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 52-tone 5180 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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                              April 17, 2024  
Temperature / Humidity        21 deg. C / 58 % RH  
Engineer                        Kenichi Adachi  
                                         (1 GHz to 6.4 GHz)  
Mode                              Tx 11ax-20(OFDMA) 52-tone 5320 MHz  
Antenna type                    5G\_CH 0: monopole 5G\_CH 1: monopole

**Index 40**  
**(above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5350.000           | PK       | 48.86             | 31.58              | -25.29       | -            | 2.10                    | 57.25              | 73.9              | 16.6           | 143            | 333             | -          |
| Hori.    | 5350.000           | AV       | 35.22             | 31.58              | -25.29       | -            | 2.10                    | 43.61              | 53.9              | 10.2           | 143            | 333             | VBW: 2 kHz |
| Vert.    | 5350.000           | PK       | 47.30             | 31.58              | -25.29       | -            | 2.10                    | 55.69              | 73.9              | 18.2           | 150            | 354             | -          |
| Vert.    | 5350.000           | AV       | 35.55             | 31.58              | -25.29       | -            | 2.10                    | 43.94              | 53.9              | 9.9            | 150            | 354             | VBW: 2 kHz |

1 GHz - 6.4 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

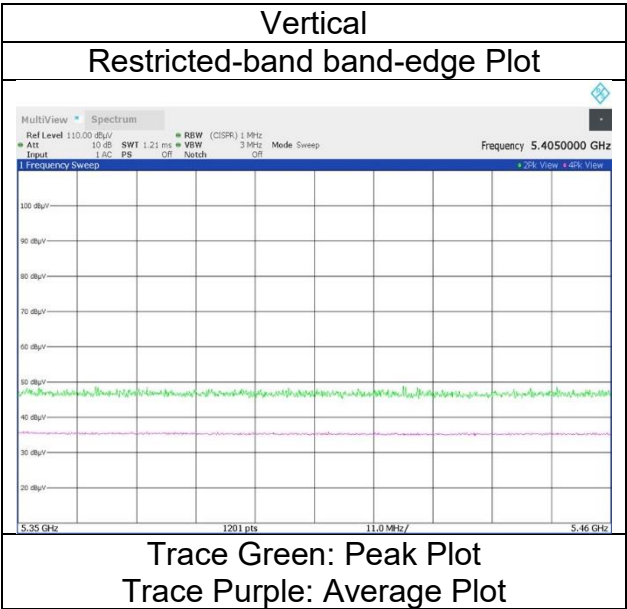
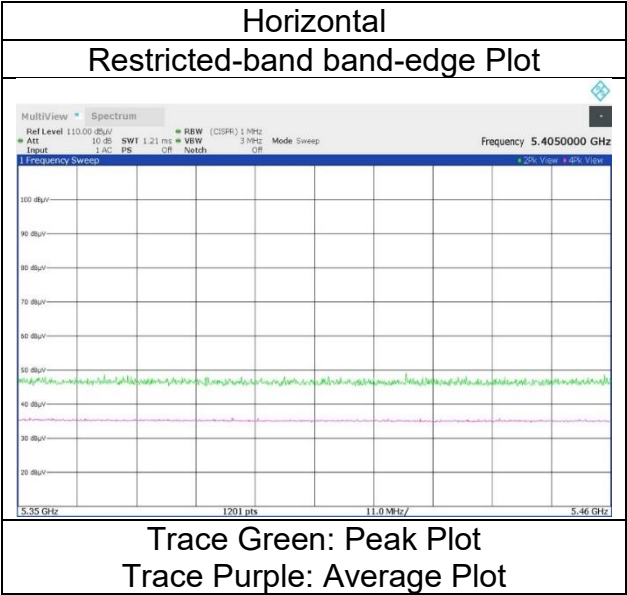
10 GHz - 40 GHz :  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

**Radiated Spurious Emission**

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer  
Mode  
Antenna type

Shonan EMC Lab.  
WAC1  
April 17, 2024  
21 deg. C / 58 % RH  
Kenichi Adachi  
Tx 11ax-20(OFDMA) 52-tone 5320 MHz  
5G\_CH 0: monopole 5G\_CH 1: monopole

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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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11ax-20(OFDMA) 52-tone 5500 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

### Index 37 (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.    | 5460.000        | PK       | 47.71          | 31.78           | -25.16    | -         | 2.10                 | 56.43           | 73.9           | 17.4        | 109         | 344          | -            |
| Hori.    | 5460.000        | AV       | 35.10          | 31.78           | -25.16    | -         | 2.10                 | 43.82           | 53.9           | 10.0        | 109         | 344          | VBW: 2.0 kHz |
| Vert.    | 5460.000        | PK       | 46.69          | 31.78           | -25.16    | -         | 2.10                 | 55.41           | 73.9           | 18.4        | 215         | 342          | -            |
| Vert.    | 5460.000        | AV       | 35.54          | 31.78           | -25.16    | -         | 2.10                 | 44.26           | 53.9           | 9.6         | 215         | 342          | VBW: 2.0 kHz |

1 GHz - 6.4 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5470.000        | PK       | 46.20          | 31.79           | -25.15    | -         | 2.10                 | 54.94           | -40.29             | -27.0       | 13.2        | 109         | 344          | -      |
| Vert.    | 5470.000        | PK       | 47.91          | 31.79           | -25.15    | -         | 2.10                 | 56.65           | -38.58             | -27.0       | 11.5        | 215         | 342          | -      |

1 GHz - 6.4 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

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

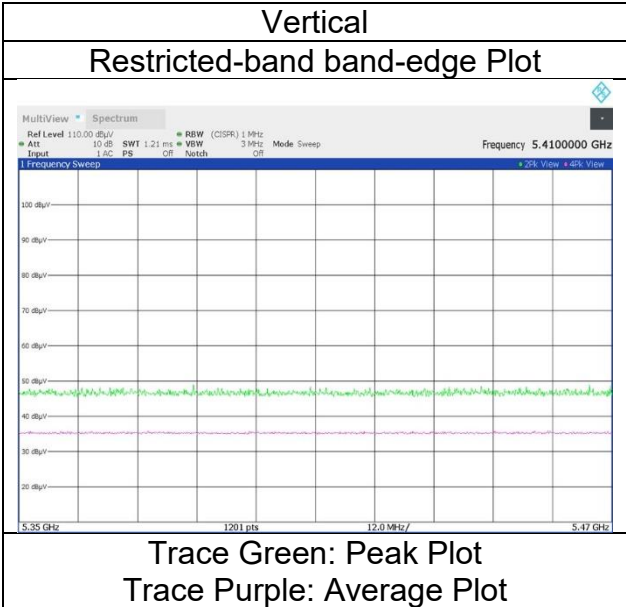
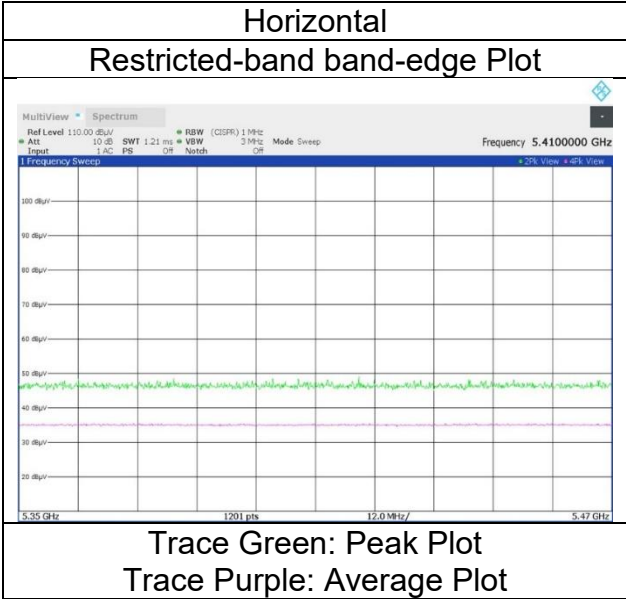
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 52-tone 5500 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 52-tone 5700 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

**Index 40**  
**(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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5725.000        | PK       | 47.75          | 32.01           | -25.06    | -         | 2.10                 | 56.80           | -38.43             | -27.0       | 11.4        | 200         | 29           | -      |
| Vert.    | 5725.000        | PK       | 47.64          | 32.01           | -25.06    | -         | 2.10                 | 56.69           | -38.54             | -27.0       | 11.5        | 207         | 349          | -      |

1 GHz - 6.4 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

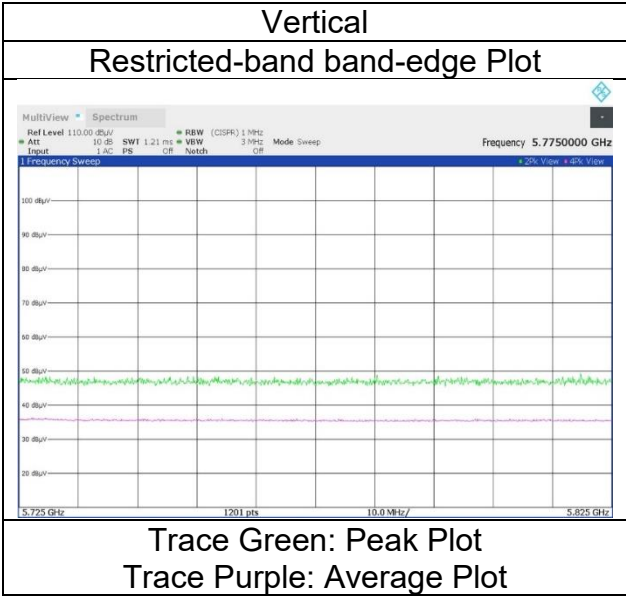
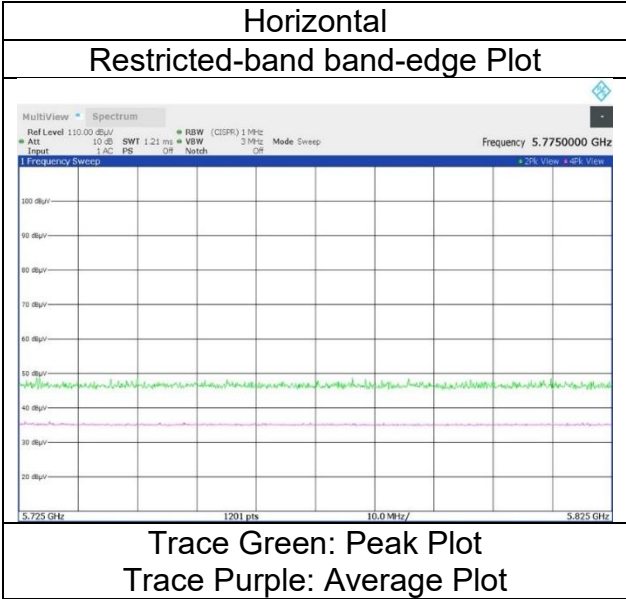
10 GHz - 40 GHz :  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

**Radiated Spurious Emission**

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer  
Mode  
Antenna type

Shonan EMC Lab.  
WAC1  
April 17, 2024  
21 deg. C / 58 % RH  
Kenichi Adachi  
Tx 11ax-20(OFDMA) 52-tone 5700 MHz  
5G\_CH 0: monopole 5G\_CH 1: monopole

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 52-tone 5745 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

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#### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5650.000        | PK       | 46.35          | 31.84           | -25.07    | -         | 2.10                 | 55.22           | -40.01             | -27.0       | 13.0        | 145         | 341          | -      |
| Hori.    | 5700.000        | PK       | 46.09          | 31.95           | -25.06    | -         | 2.10                 | 55.08           | -40.15             | 10.0        | 50.1        | 145         | 341          | -      |
| Hori.    | 5715.000        | PK       | 47.81          | 31.98           | -25.06    | -         | 2.10                 | 56.83           | -38.40             | 14.2        | 52.5        | 145         | 341          | -      |
| Hori.    | 5720.000        | PK       | 46.43          | 31.99           | -25.05    | -         | 2.10                 | 55.47           | -39.76             | 15.6        | 55.3        | 145         | 341          | -      |
| Hori.    | 5725.000        | PK       | 47.55          | 32.01           | -25.06    | -         | 2.10                 | 56.60           | -38.63             | 27.0        | 65.6        | 145         | 341          | -      |
| Vert.    | 5650.000        | PK       | 46.29          | 31.84           | -25.07    | -         | 2.10                 | 55.16           | -40.07             | -27.0       | 13.0        | 174         | 342          | -      |
| Vert.    | 5700.000        | PK       | 47.55          | 31.95           | -25.06    | -         | 2.10                 | 56.54           | -38.69             | 10.0        | 48.6        | 174         | 342          | -      |
| Vert.    | 5715.000        | PK       | 46.41          | 31.98           | -25.06    | -         | 2.10                 | 55.43           | -39.80             | 14.2        | 53.9        | 174         | 342          | -      |
| Vert.    | 5720.000        | PK       | 47.17          | 31.99           | -25.05    | -         | 2.10                 | 56.21           | -39.02             | 15.6        | 54.6        | 174         | 342          | -      |
| Vert.    | 5725.000        | PK       | 48.45          | 32.01           | -25.06    | -         | 2.10                 | 57.50           | -37.73             | 27.0        | 64.7        | 174         | 342          | -      |

1 GHz - 6.4 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

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

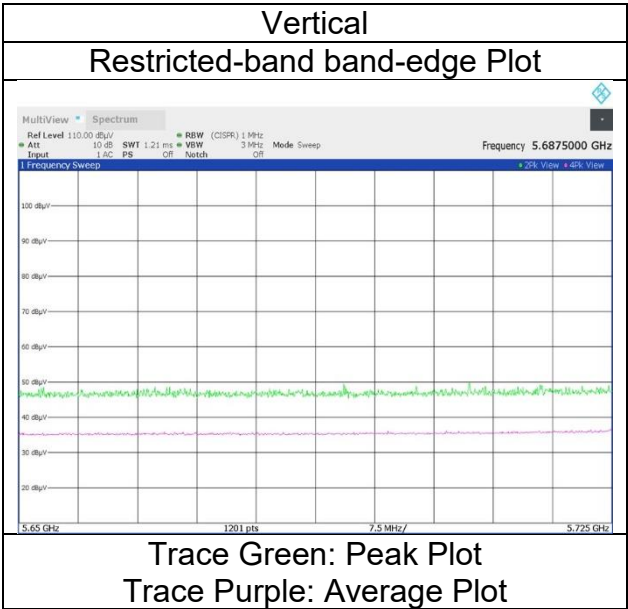
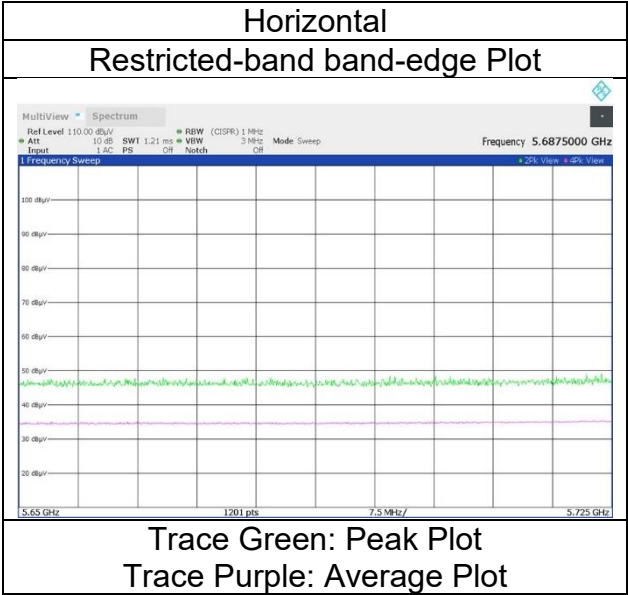
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 52-tone 5745 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11ax-20(OFDMA) 52-tone 5825 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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#### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5850.000        | PK       | 47.52          | 32.33           | -25.01    | -         | 2.10                 | 56.94           | -38.29             | 27.0        | 65.2        | 165         | 337          | -      |
| Hori.    | 5855.000        | PK       | 47.17          | 32.34           | -25.00    | -         | 2.10                 | 56.61           | -38.62             | 15.6        | 54.2        | 165         | 337          | -      |
| Hori.    | 5860.000        | PK       | 47.26          | 32.35           | -25.01    | -         | 2.10                 | 56.70           | -38.53             | 14.2        | 52.7        | 165         | 337          | -      |
| Hori.    | 5875.000        | PK       | 46.99          | 32.38           | -25.00    | -         | 2.10                 | 56.47           | -38.76             | 10.0        | 48.7        | 165         | 337          | -      |
| Hori.    | 5925.000        | PK       | 46.15          | 32.46           | -24.99    | -         | 2.10                 | 55.72           | -39.51             | -27.0       | <b>12.5</b> | 165         | 337          | -      |
| Vert.    | 5850.000        | PK       | 46.71          | 32.33           | -25.35    | -         | 2.10                 | 55.79           | -39.44             | 27.0        | 66.4        | 183         | 350          | -      |
| Vert.    | 5855.000        | PK       | 46.94          | 32.34           | -25.34    | -         | 2.10                 | 56.04           | -39.19             | 15.6        | 54.7        | 183         | 350          | -      |
| Vert.    | 5860.000        | PK       | 46.73          | 32.35           | -25.35    | -         | 2.10                 | 55.83           | -39.40             | 14.2        | 53.5        | 183         | 350          | -      |
| Vert.    | 5875.000        | PK       | 46.85          | 32.38           | -25.34    | -         | 2.10                 | 55.99           | -39.24             | 10.0        | 49.2        | 183         | 350          | -      |
| Vert.    | 5925.000        | PK       | 46.33          | 32.46           | -25.33    | -         | 2.10                 | 55.56           | -39.67             | -27.0       | 12.6        | 183         | 350          | -      |

1 GHz - 6.4 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

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

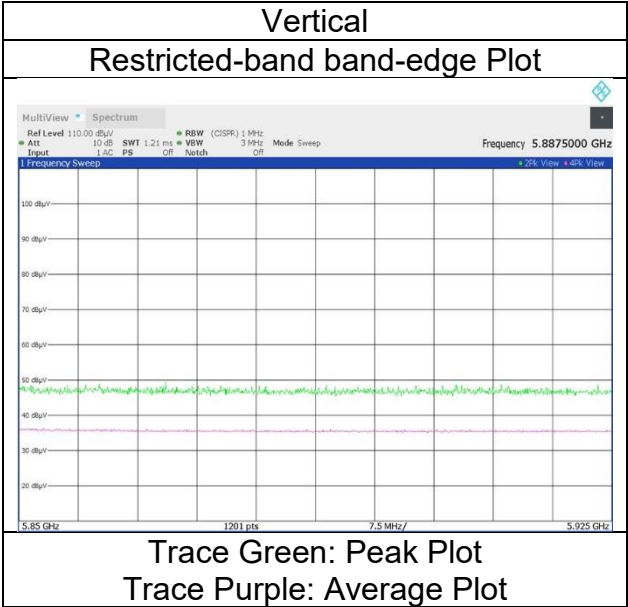
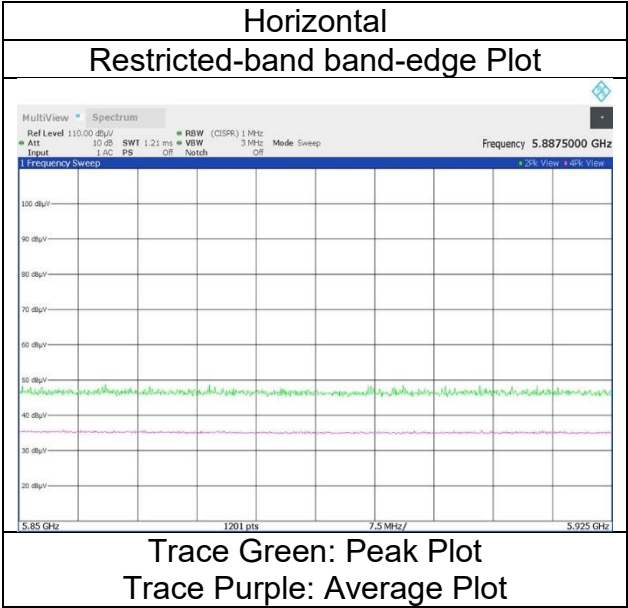
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 52-tone 5825 MHz  |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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                                              April 17, 2024  
Temperature / Humidity                        21 deg. C / 58 % RH  
Engineer                                         Kenichi Adachi  
                                                          (1 GHz to 6.4 GHz)  
Mode                                              Tx 11ax-20(OFDMA) 106-tone 5180 MHz  
Antenna type                                    5G\_CH 0: monopole 5G\_CH 1: monopole

**Index 53**  
**(above 1 GHz Inside 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] | Distance<br>Factor [dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark     |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|------------|
| Hori.    | 5150.000           | PK       | 47.69             | 31.86              | -25.53       | -            | 2.10                    | 56.12              | 73.9              | 17.7           | 210            | 335             | -          |
| Hori.    | 5150.000           | AV       | 35.20             | 31.86              | -25.53       | -            | 2.10                    | 43.63              | 53.9              | 10.2           | 210            | 335             | VBW: 3 kHz |
| Vert.    | 5150.000           | PK       | 47.77             | 31.86              | -25.53       | -            | 2.10                    | 56.20              | 73.9              | 17.7           | 111            | 358             | -          |
| Vert.    | 5150.000           | AV       | 35.60             | 31.86              | -25.53       | -            | 2.10                    | 44.03              | 53.9              | 9.8            | 111            | 358             | VBW: 3 kHz |

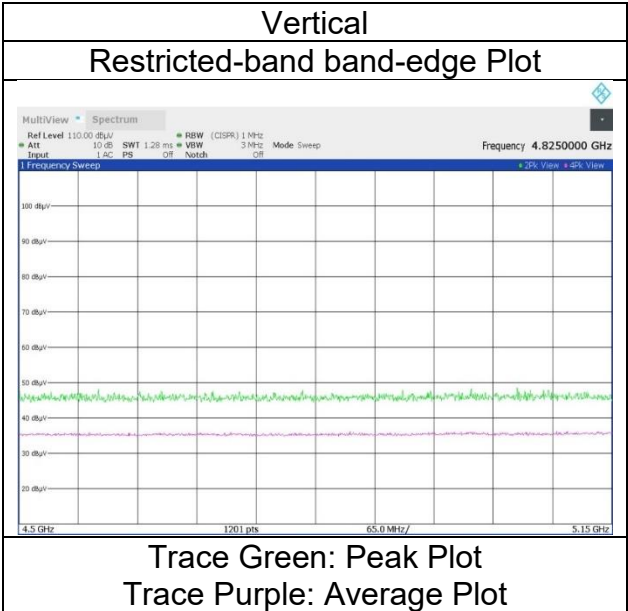
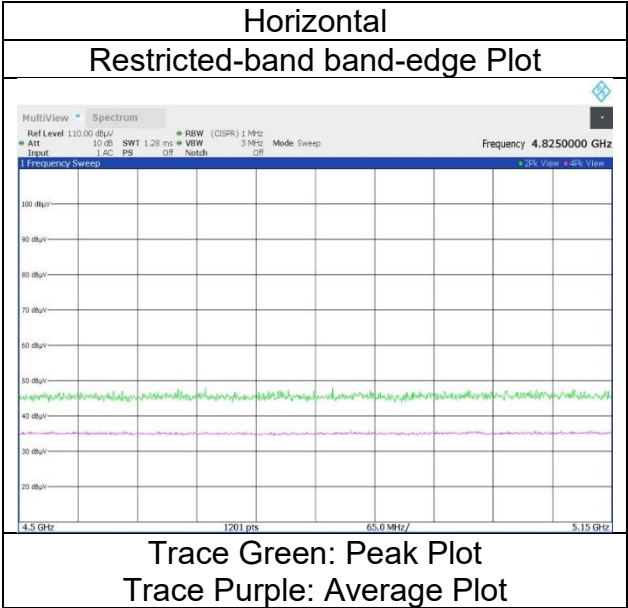
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor  
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor  
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).  
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$   
                                                          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  
Mode  
Antenna type

Shonan EMC Lab.  
WAC1  
April 17, 2024  
21 deg. C / 58 % RH  
Kenichi Adachi  
Tx 11ax-20(OFDMA) 106-tone 5180 MHz  
5G\_CH 0: monopole 5G\_CH 1: monopole

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 106-tone 5320 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

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(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.                                     | 5350.000        | PK       | 47.21          | 31.58           | -25.29    | -         | 2.10                 | 55.60           | 73.9           | 18.3        | 156         | 336          | -          |
| Hori.                                     | 5350.000        | AV       | 35.25          | 31.58           | -25.29    | -         | 2.10                 | 43.64           | 53.9           | 10.2        | 156         | 336          | VBW: 3 kHz |
| Vert.                                     | 5350.000        | PK       | 48.05          | 31.58           | -25.29    | -         | 2.10                 | 56.44           | 73.9           | 17.4        | 150         | 350          | -          |
| Vert.                                     | 5350.000        | AV       | 35.54          | 31.58           | -25.29    | -         | 2.10                 | 43.93           | 53.9           | 9.9         | 150         | 350          | VBW: 3 kHz |

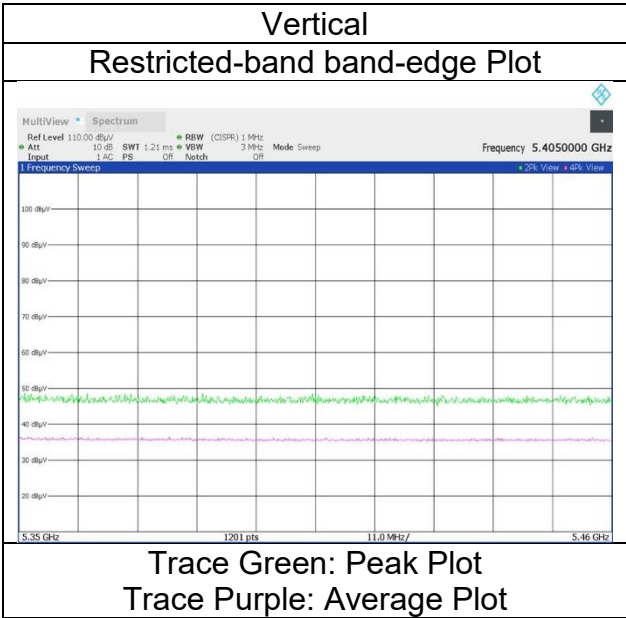
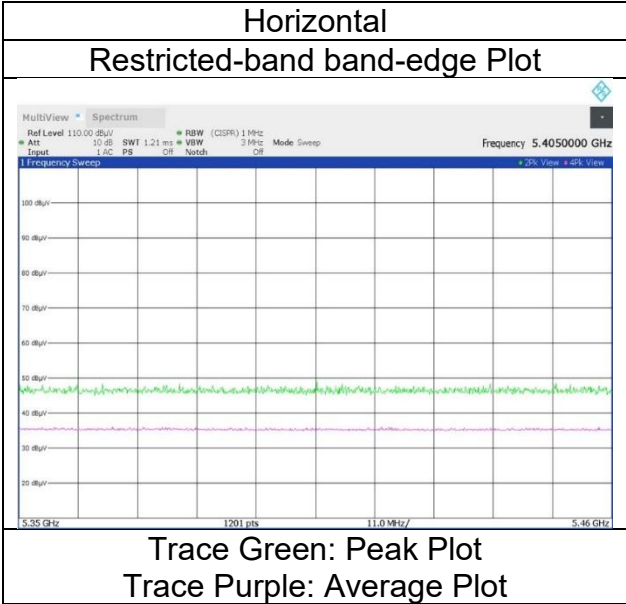
1 GHz - 6.4 GHz : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier)) + Distance factor  
Other bands : Result = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz) - Gain(Amplifier) + Distance factor  
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).  
Distance factor : 1 GHz - 10 GHz : 20log (3.82 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  
Mode  
Antenna type

Shonan EMC Lab.  
WAC1  
April 17, 2024  
21 deg. C / 58 % RH  
Kenichi Adachi  
Tx 11ax-20(OFDMA) 106-tone 5320 MHz  
5G\_CH 0: monopole 5G\_CH 1: monopole

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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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
|                        | (1 GHz to 6.4 GHz)                  |
| Mode                   | Tx 11ax-20(OFDMA) 106-tone 5500 MHz |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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#### (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.    | 5460.000        | PK       | 47.50          | 31.78           | -25.16    | -         | 2.10                 | 56.22           | 73.9           | 17.6        | 172         | 331          | -          |
| Hori.    | 5460.000        | AV       | 35.17          | 31.78           | -25.16    | -         | 2.10                 | 43.89           | 53.9           | 10.0        | 172         | 331          | VBW: 3 kHz |
| Vert.    | 5460.000        | PK       | 46.49          | 31.78           | -25.16    | -         | 2.10                 | 55.21           | 73.9           | 18.6        | 167         | 330          | -          |
| Vert.    | 5460.000        | AV       | 36.10          | 31.78           | -25.16    | -         | 2.10                 | 44.82           | 53.9           | 9.0         | 167         | 330          | VBW: 3 kHz |

1 GHz - 6.4 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5470.000        | PK       | 47.54          | 31.79           | -25.15    | -         | 2.10                 | 56.28           | -38.95             | -27.0       | 11.9        | 172         | 331          | -      |
| Vert.    | 5470.000        | PK       | 46.82          | 31.79           | -25.15    | -         | 2.10                 | 55.56           | -39.67             | -27.0       | 12.6        | 167         | 330          | -      |

1 GHz - 6.4 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

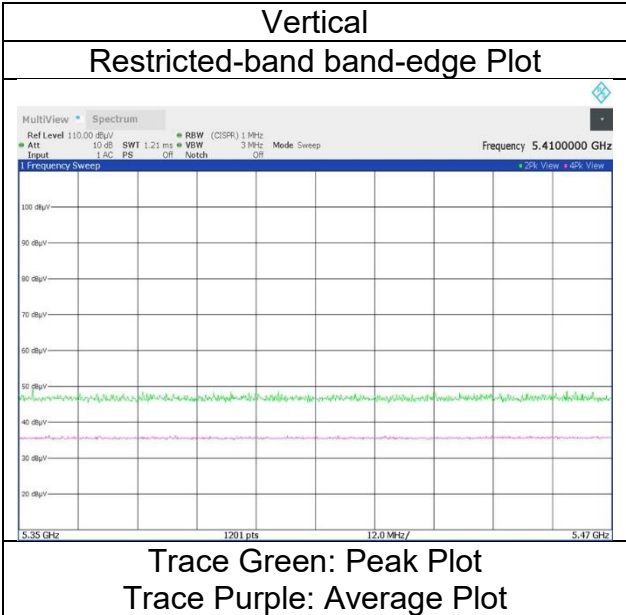
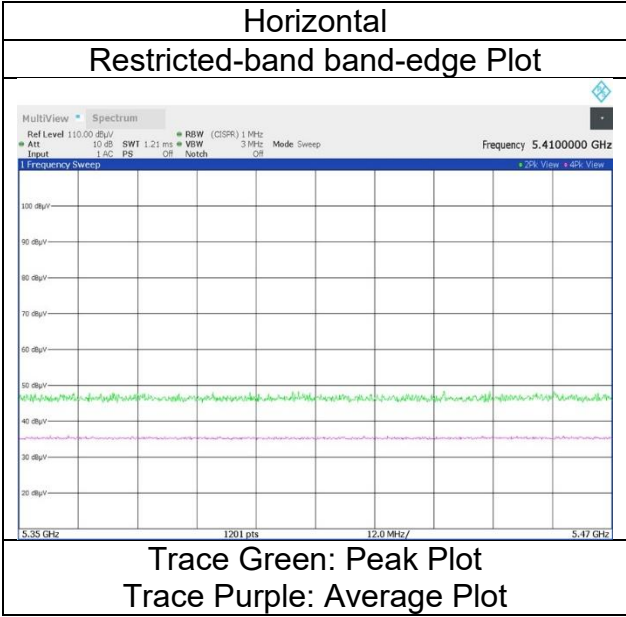
10 GHz - 40 GHz :  $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

**Radiated Spurious Emission**

Test place  
Semi Anechoic Chamber  
Date  
Temperature / Humidity  
Engineer  
Mode  
Antenna type

Shonan EMC Lab.  
WAC1  
April 17, 2024  
21 deg. C / 58 % RH  
Kenichi Adachi  
Tx 11ax-20(OFDMA) 106-tone 5500 MHz  
5G\_CH 0: monopole 5G\_CH 1: monopole

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 106-tone 5700 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

**Index 54**  
**(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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5725.000        | PK       | 46.78          | 32.01           | -25.06    | -         | 2.10                 | 55.83           | -39.40             | -27.0       | 12.4        | 175         | 329          | -      |
| Vert.    | 5725.000        | PK       | 47.32          | 32.01           | -25.06    | -         | 2.10                 | 56.37           | -38.86             | -27.0       | 11.8        | 169         | 340          | -      |

1 GHz - 6.4 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

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

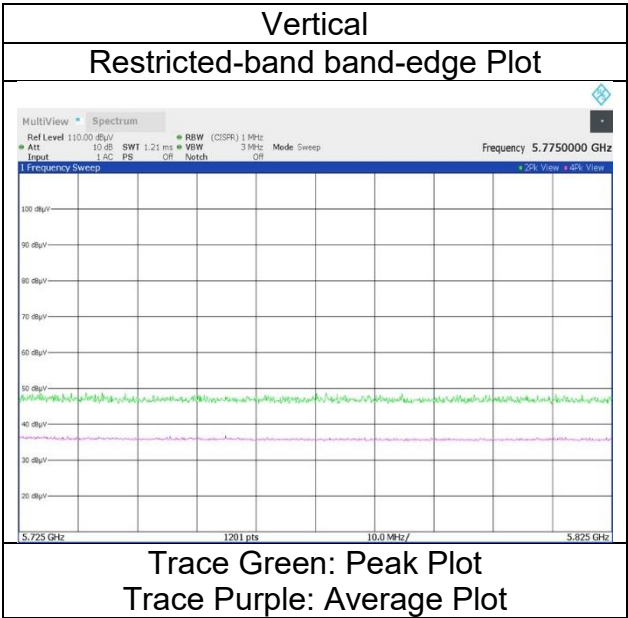
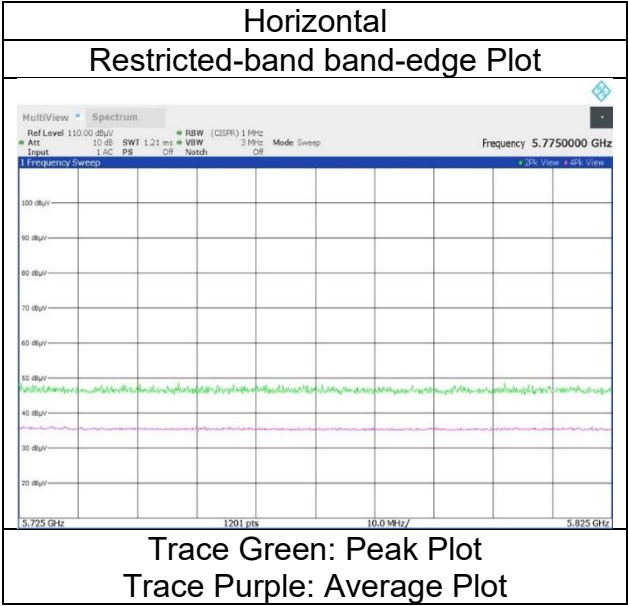
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 106-tone 5700 MHz |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 106-tone 5745 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

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#### (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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5650.000        | PK       | 46.76          | 31.84           | -25.07    | -         | 2.10                 | 55.63           | -39.60             | -27.0       | 12.6        | 135         | 327          | -      |
| Hori.    | 5700.000        | PK       | 46.78          | 31.95           | -25.06    | -         | 2.10                 | 55.77           | -39.46             | 10.0        | 49.4        | 135         | 327          | -      |
| Hori.    | 5715.000        | PK       | 46.63          | 31.98           | -25.06    | -         | 2.10                 | 55.65           | -39.58             | 14.2        | 53.7        | 135         | 327          | -      |
| Hori.    | 5720.000        | PK       | 46.23          | 31.99           | -25.05    | -         | 2.10                 | 55.27           | -39.96             | 15.6        | 55.5        | 135         | 327          | -      |
| Hori.    | 5725.000        | PK       | 47.03          | 32.01           | -25.06    | -         | 2.10                 | 56.08           | -39.15             | 27.0        | 66.1        | 135         | 327          | -      |
| Vert.    | 5650.000        | PK       | 46.56          | 31.84           | -25.07    | -         | 2.10                 | 55.43           | -39.80             | -27.0       | 12.8        | 151         | 331          | -      |
| Vert.    | 5700.000        | PK       | 46.28          | 31.95           | -25.06    | -         | 2.10                 | 55.27           | -39.96             | 10.0        | 49.9        | 151         | 331          | -      |
| Vert.    | 5715.000        | PK       | 47.25          | 31.98           | -25.06    | -         | 2.10                 | 56.27           | -38.96             | 14.2        | 53.1        | 151         | 331          | -      |
| Vert.    | 5720.000        | PK       | 47.64          | 31.99           | -25.05    | -         | 2.10                 | 56.68           | -38.55             | 15.6        | 54.1        | 151         | 331          | -      |
| Vert.    | 5725.000        | PK       | 46.89          | 32.01           | -25.06    | -         | 2.10                 | 55.94           | -39.29             | 27.0        | 66.2        | 151         | 331          | -      |

1 GHz - 6.4 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

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

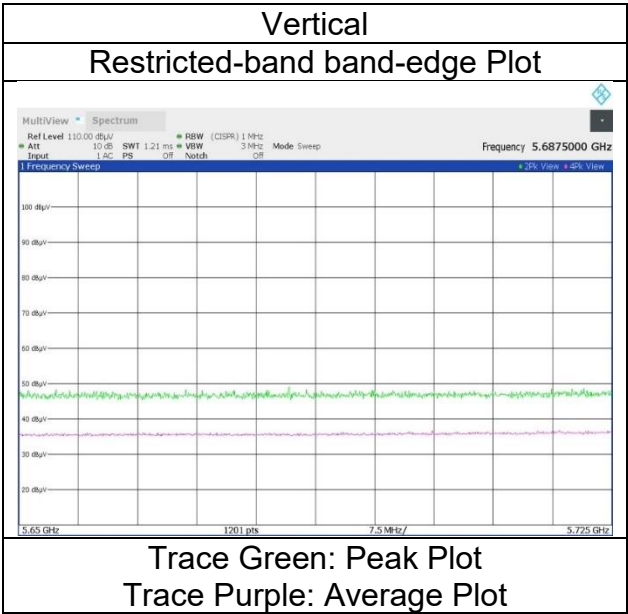
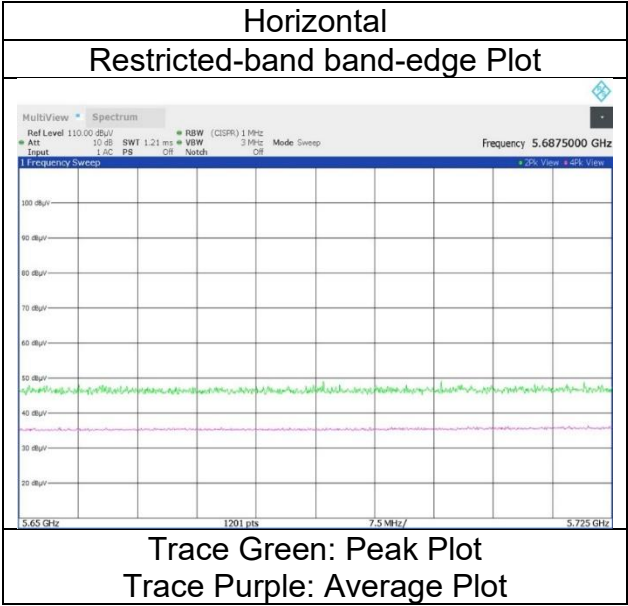
Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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                   | April 17, 2024                      |
| Temperature / Humidity | 21 deg. C / 58 % RH                 |
| Engineer               | Kenichi Adachi                      |
| Mode                   | Tx 11ax-20(OFDMA) 106-tone 5745 MHz |
| Antenna type           | 5G_CH 0: monopole 5G_CH 1: monopole |

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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 April 17, 2024  
Temperature / Humidity 21 deg. C / 58 % RH  
Engineer Kenichi Adachi  
(1 GHz to 6.4 GHz)  
Mode Tx 11ax-20(OFDMA) 106-tone 5825 MHz  
Antenna type 5G\_CH 0: monopole 5G\_CH 1: monopole

**Index 54**  
**(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] | Distance Factor [dB] | Result [dBuV/m] | Result (ERP) [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [deg.] | Remark |
|----------|-----------------|----------|----------------|-----------------|-----------|-----------|----------------------|-----------------|--------------------|-------------|-------------|-------------|--------------|--------|
| Hori.    | 5850.000        | PK       | 46.37          | 32.33           | -25.01    | -         | 2.10                 | 55.79           | -39.44             | 27.0        | 66.4        | 151         | 341          | -      |
| Hori.    | 5855.000        | PK       | 46.18          | 32.34           | -25.00    | -         | 2.10                 | 55.62           | -39.61             | 15.6        | 55.2        | 151         | 341          | -      |
| Hori.    | 5860.000        | PK       | 46.42          | 32.35           | -25.01    | -         | 2.10                 | 55.86           | -39.37             | 14.2        | 53.5        | 151         | 341          | -      |
| Hori.    | 5875.000        | PK       | 46.46          | 32.38           | -25.00    | -         | 2.10                 | 55.94           | -39.29             | 10.0        | 49.2        | 151         | 341          | -      |
| Hori.    | 5925.000        | PK       | 48.15          | 32.46           | -24.99    | -         | 2.10                 | 57.72           | -37.51             | -27.0       | 10.5        | 151         | 341          | -      |
| Vert.    | 5850.000        | PK       | 47.44          | 32.33           | -25.01    | -         | 2.10                 | 56.86           | -38.37             | 27.0        | 65.3        | 148         | 344          | -      |
| Vert.    | 5855.000        | PK       | 47.73          | 32.34           | -25.00    | -         | 2.10                 | 57.17           | -38.06             | 15.6        | 53.6        | 148         | 344          | -      |
| Vert.    | 5860.000        | PK       | 47.31          | 32.35           | -25.01    | -         | 2.10                 | 56.75           | -38.48             | 14.2        | 52.6        | 148         | 344          | -      |
| Vert.    | 5875.000        | PK       | 47.68          | 32.38           | -25.00    | -         | 2.10                 | 57.16           | -38.07             | 10.0        | 48.0        | 148         | 344          | -      |
| Vert.    | 5925.000        | PK       | 48.14          | 32.46           | -24.99    | -         | 2.10                 | 57.71           | -37.52             | -27.0       | 10.5        | 148         | 344          | -      |

1 GHz - 6.4 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

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

Distance factor : 1 GHz - 10 GHz :  $20\log(3.82\text{ m} / 3.0\text{ m}) = 2.10\text{ dB}$

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