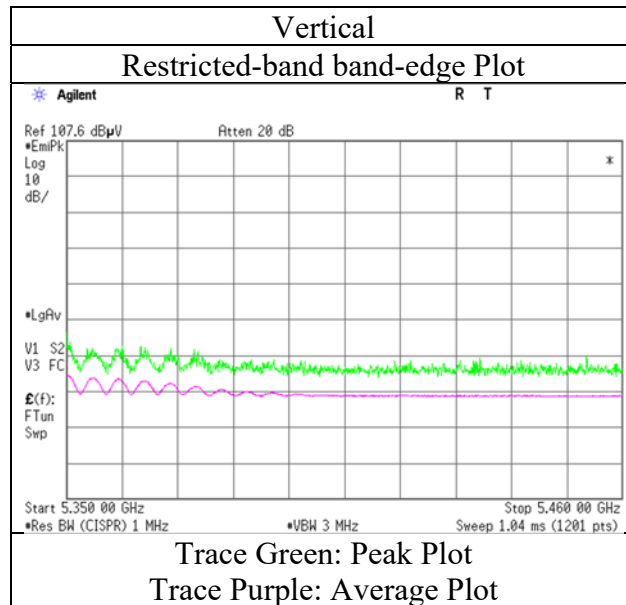
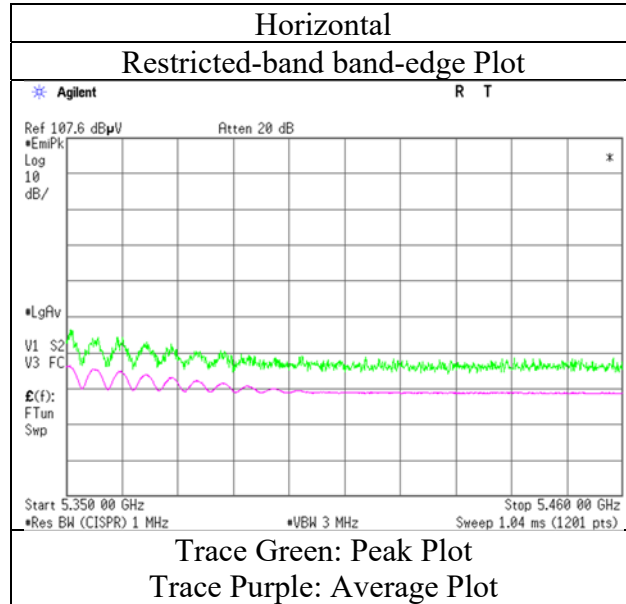


**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.4 Semi Anechoic Chamber  
Date April 9, 2020  
Temperature / Humidity 22 deg. C / 32 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5290 MHz (996-tone RU)

RU Index 67



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

**UL Japan, Inc.**

**Ise EMC Lab.**

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (26-tone RU)

RU Index 0

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5460.000	PK	40.2	31.7	6.0	31.9	-	46.0	68.2	22.2	
Hori.	5470.000	PK	41.1	31.7	6.0	31.9	-	47.0	68.2	21.2	
Hori.	5460.000	AV	32.4	31.7	6.0	31.9	0.2	38.5	53.9	15.4	*1)
Vert.	5460.000	PK	40.1	31.7	6.0	31.9	-	45.9	68.2	22.3	
Vert.	5470.000	PK	41.2	31.7	6.0	31.9	-	47.0	68.2	21.2	
Vert.	5460.000	AV	32.3	31.7	6.0	31.9	0.2	38.3	53.9	15.6	*1)

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

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

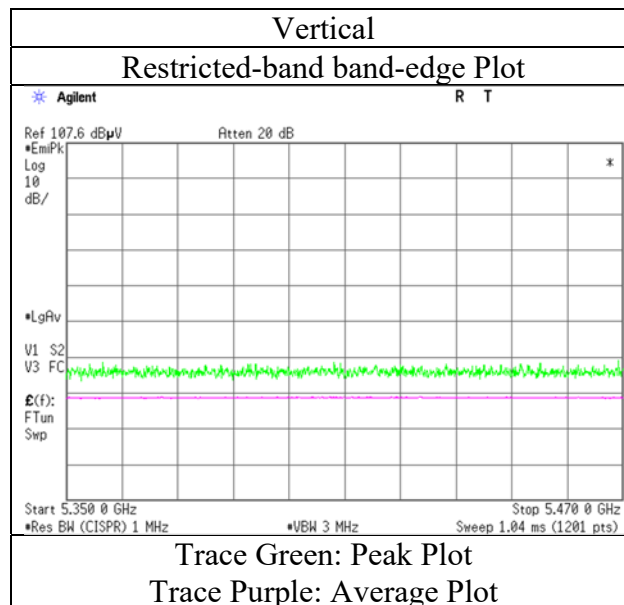
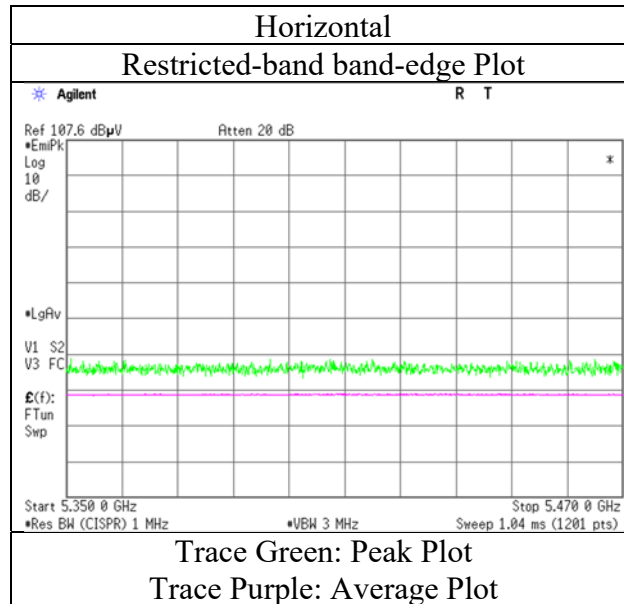
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (26-tone RU)

RU Index 0



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (52-tone RU)

RU Index37

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5460.000	PK	40.2	31.7	6.0	31.9	-	46.1	68.2	22.2	
Hori.	5470.000	PK	41.2	31.7	6.0	31.9	-	47.0	68.2	21.2	
Hori.	5460.000	AV	32.5	31.7	6.0	31.9	0.2	38.6	53.9	15.3	*1)
Vert.	5460.000	PK	40.9	31.7	6.0	31.9	-	46.7	68.2	21.5	
Vert.	5470.000	PK	41.2	31.7	6.0	31.9	-	47.1	68.2	21.1	
Vert.	5460.000	AV	32.6	31.7	6.0	31.9	0.2	38.6	53.9	15.3	*1)

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

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

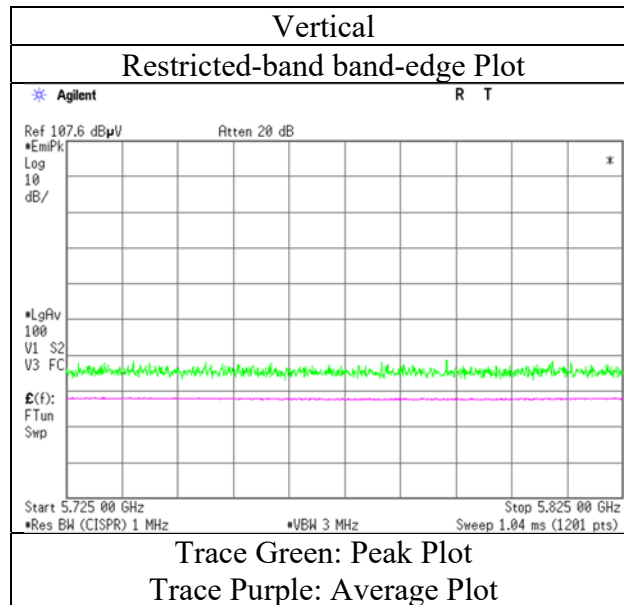
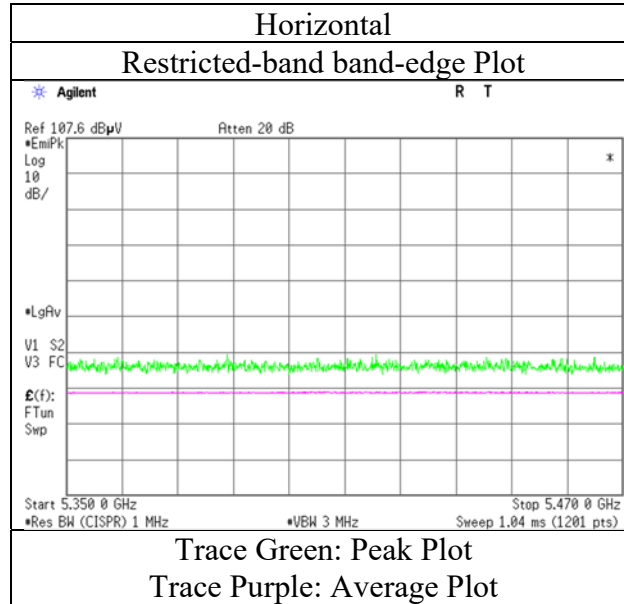
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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

**Radiated Spurious Emission**  
 (IFA Antenna)

Report No. 13170804H  
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
 Date February 19, 2020  
 Temperature / Humidity 22 deg. C / 42 % RH  
 Engineer Yuta Moriya  
 (1 GHz - 10 GHz)  
 Mode Tx 11ax-80 5530 MHz (52-tone RU)

RU Index37



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (106-tone RU)

RU Index 53

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5460.000	PK	40.3	31.7	6.0	31.9	-	46.2	68.2	22.1	
Hori.	5470.000	PK	41.3	31.7	6.0	31.9	-	47.1	68.2	21.1	
Hori.	5460.000	AV	32.6	31.7	6.0	31.9	0.2	38.6	53.9	15.3	*1)
Vert.	5460.000	PK	40.9	31.7	6.0	31.9	-	46.7	68.2	21.5	
Vert.	5470.000	PK	41.4	31.7	6.0	31.9	-	47.3	68.2	20.9	
Vert.	5460.000	AV	32.6	31.7	6.0	31.9	0.2	38.7	53.9	15.3	*1)

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

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

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

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

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**Ise EMC Lab.**

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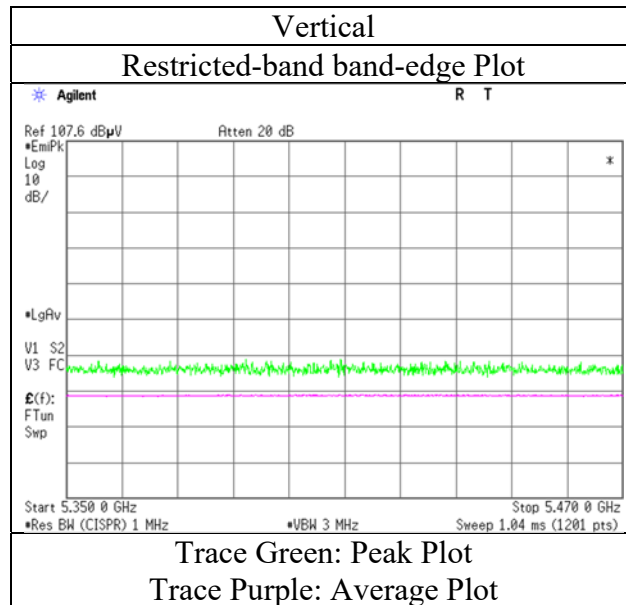
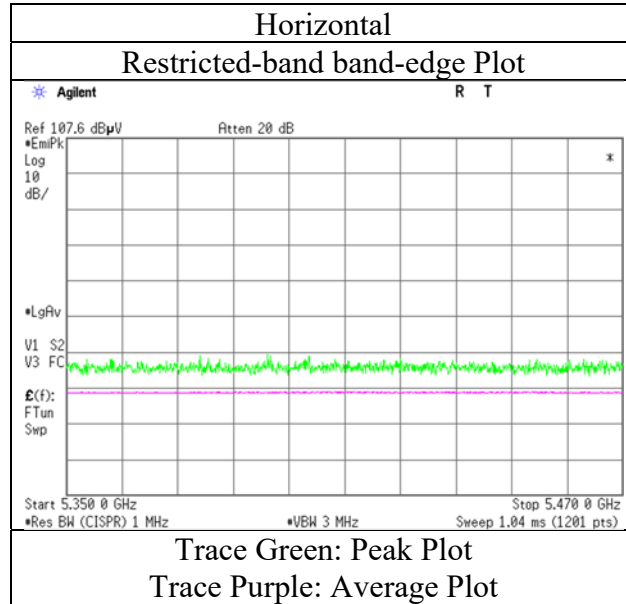
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

**Radiated Spurious Emission**  
 (IFA Antenna)

Report No. 13170804H  
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
 Date February 19, 2020  
 Temperature / Humidity 22 deg. C / 42 % RH  
 Engineer Yuta Moriya  
 (1 GHz - 10 GHz)  
 Mode Tx 11ax-80 5530 MHz (106-tone RU)

RU Index 53



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (242-tone RU)

RU Index 61

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5460.000	PK	40.4	31.7	6.0	31.9	-	46.2	68.2	22.0	
Hori.	5470.000	PK	41.4	31.7	6.0	31.9	-	47.2	68.2	21.0	
Hori.	5460.000	AV	32.8	31.7	6.0	31.9	0.2	38.9	53.9	15.0	*1)
Vert.	5460.000	PK	40.8	31.7	6.0	31.9	-	46.7	68.2	21.5	
Vert.	5470.000	PK	41.1	31.7	6.0	31.9	-	47.0	68.2	21.2	
Vert.	5460.000	AV	32.8	31.7	6.0	31.9	0.2	38.8	53.9	15.1	*1)

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

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

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

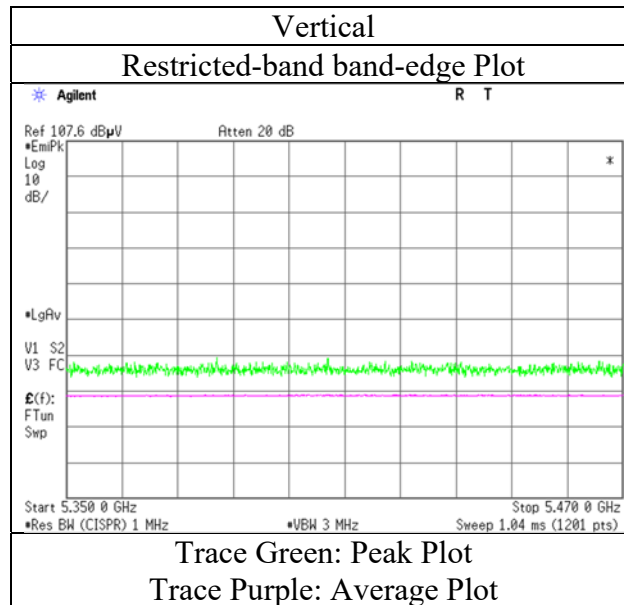
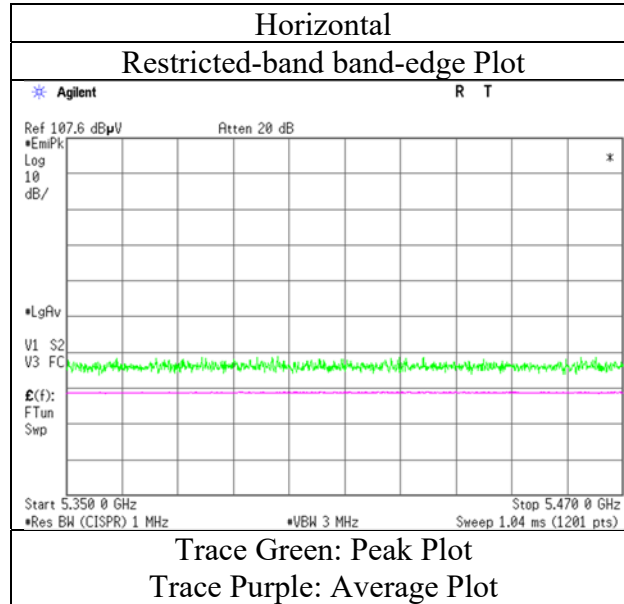
\*1) Not Out of Band emission(Leakage Power)



**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (242-tone RU)

RU Index 61



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (484-tone RU)

RU Index 65

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5460.000	PK	42.8	31.7	6.0	31.9	-	48.6	68.2	19.6	
Hori.	5470.000	PK	46.2	31.7	6.0	31.9	-	52.0	68.2	16.2	
Hori.	5460.000	AV	33.5	31.7	6.0	31.9	0.3	39.6	53.9	14.3	*1)
Vert.	5460.000	PK	42.5	31.7	6.0	31.9	-	48.3	68.2	19.9	
Vert.	5470.000	PK	47.2	31.7	6.0	31.9	-	53.0	68.2	15.2	
Vert.	5460.000	AV	33.8	31.7	6.0	31.9	0.3	39.9	53.9	14.0	*1)

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

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

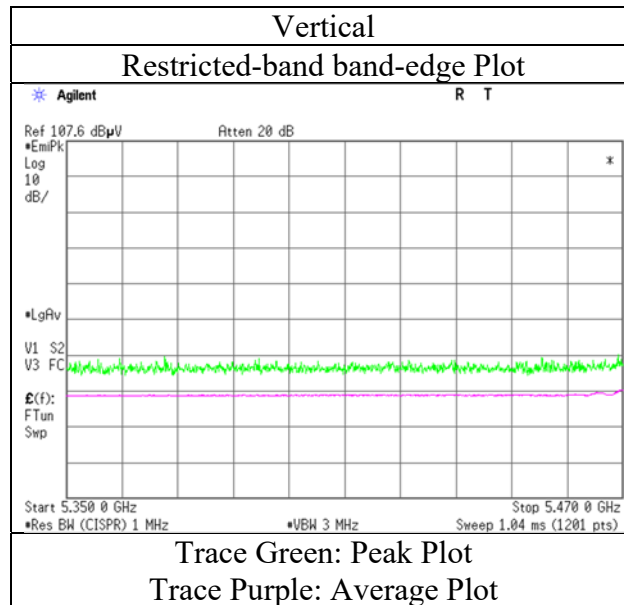
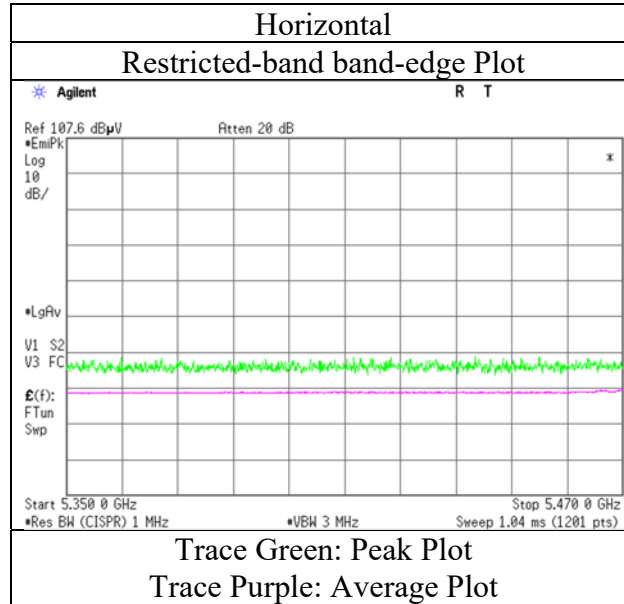
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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

**Radiated Spurious Emission**  
 (IFA Antenna)

Report No. 13170804H  
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
 Date February 19, 2020  
 Temperature / Humidity 22 deg. C / 42 % RH  
 Engineer Yuta Moriya  
 (1 GHz - 10 GHz)  
 Mode Tx 11ax-80 5530 MHz (484-tone RU)

RU Index 65



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

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.4 Semi Anechoic Chamber  
Date April 9, 2020  
Temperature / Humidity 22 deg. C / 32 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (996-tone RU)

RU Index 67

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5460.000	PK	55.1	32.0	6.4	31.3	-	62.1	68.2	6.1	
Hori.	5470.000	PK	56.0	32.0	6.4	31.3	-	63.0	68.2	5.2	
Hori.	5460.000	AV	44.7	32.0	6.4	31.3	0.3	52.0	53.9	1.9	*1)
Vert.	5460.000	PK	53.9	32.0	6.4	31.3	-	61.0	68.2	7.2	
Vert.	5470.000	PK	56.4	32.0	6.4	31.3	-	63.5	68.2	4.7	
Vert.	5460.000	AV	43.5	32.0	6.4	31.3	0.3	50.8	53.9	3.1	*1)

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

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

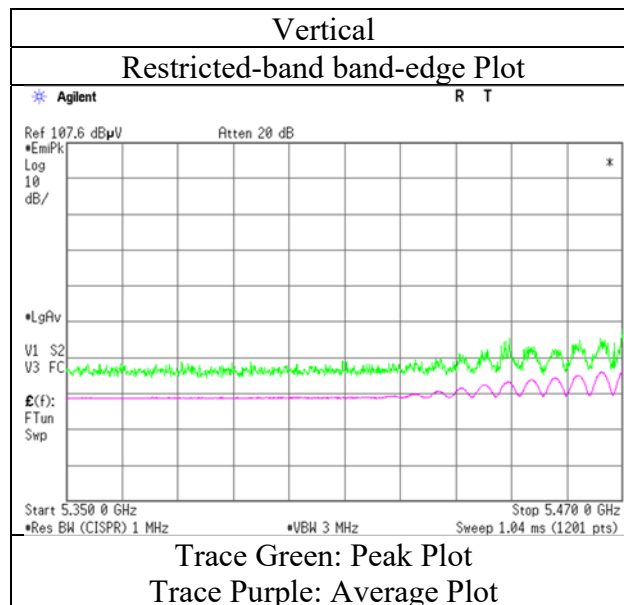
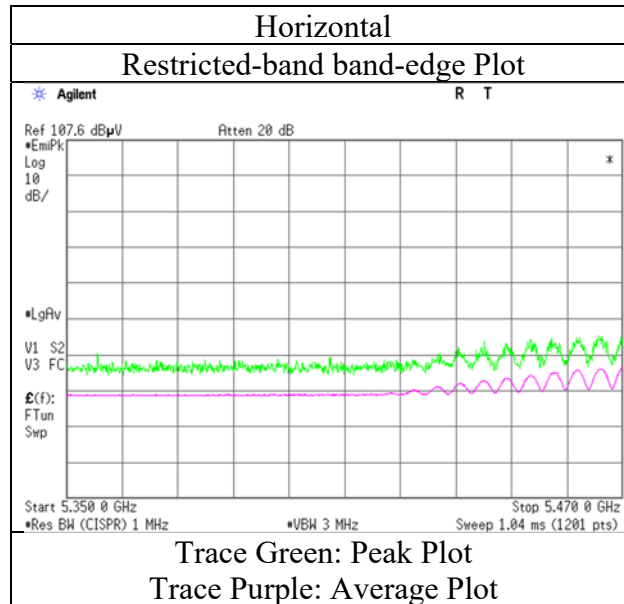
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.4 Semi Anechoic Chamber  
Date April 9, 2020  
Temperature / Humidity 22 deg. C / 32 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5530 MHz (996-tone RU)

RU Index 67



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

**UL Japan, Inc.**

**Ise EMC Lab.**

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (26-tone RU)

RU Index 36

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	40.2	32.0	6.1	31.9	-	46.4	68.2	21.8	
Vert.	5725.000	PK	40.3	32.0	6.1	31.9	-	46.5	68.2	21.7	

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

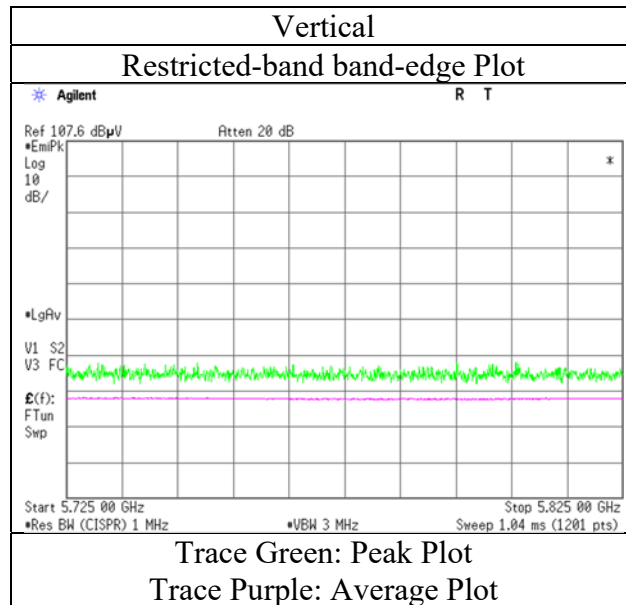
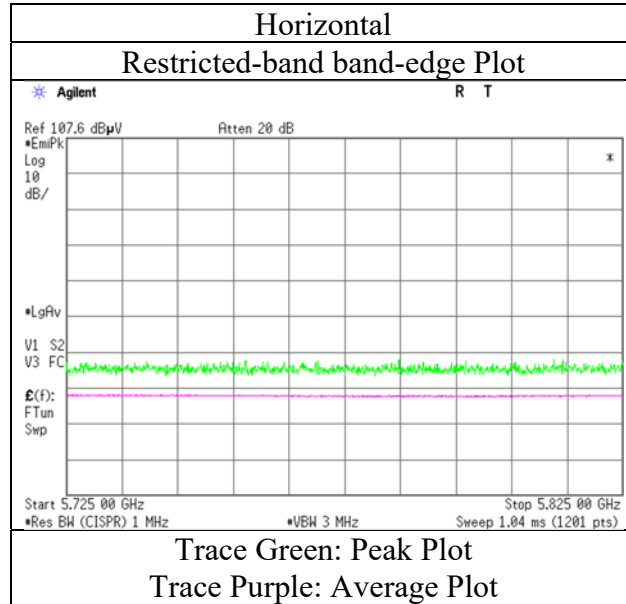
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (26-tone RU)

RU Index 36



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (52-tone RU)

RU Index 52

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	40.2	32.0	6.1	31.9	-	46.4	68.2	21.8	
Vert.	5725.000	PK	40.3	32.0	6.1	31.9	-	46.5	68.2	21.7	

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

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

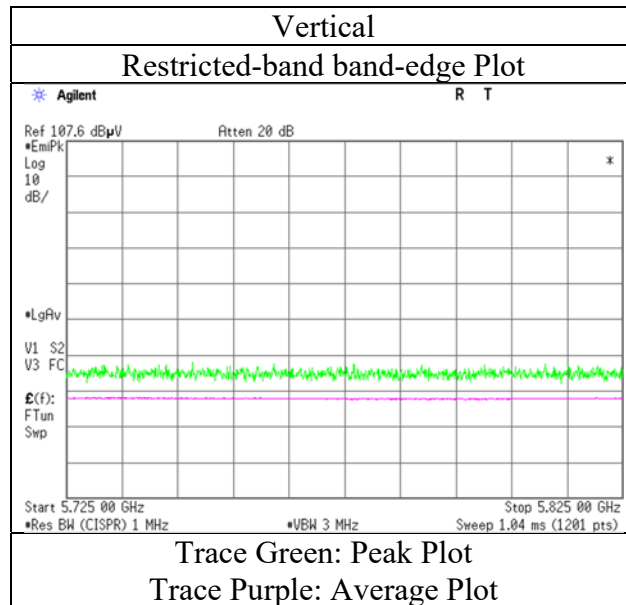
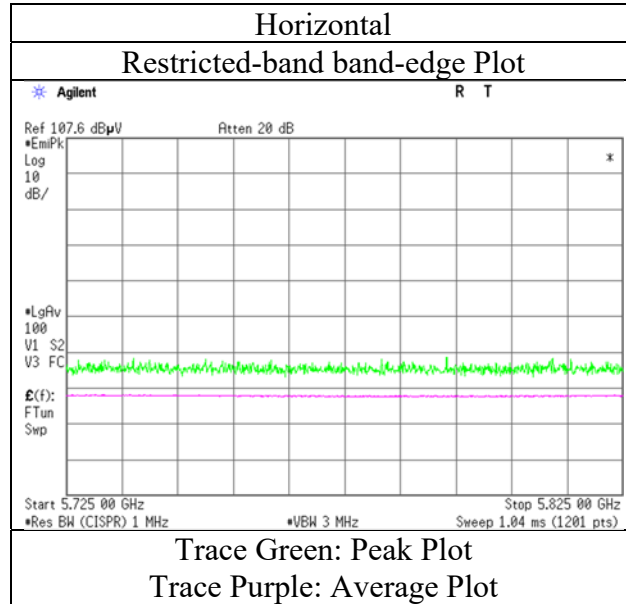
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$



**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (52-tone RU)

**RU Index 52**



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

**UL Japan, Inc.**

**Ise EMC Lab.**

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (106-tone RU)

RU Index 60

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	40.5	32.0	6.1	31.9	-	46.7	68.2	21.5	
Vert.	5725.000	PK	40.7	32.0	6.1	31.9	-	46.8	68.2	21.4	

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

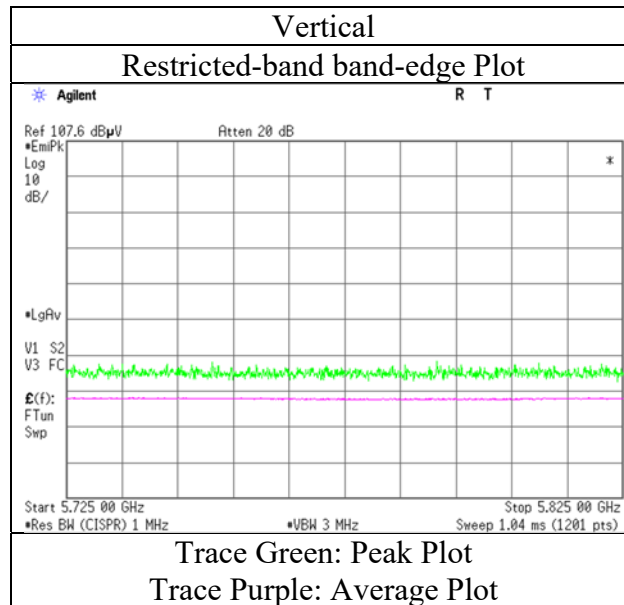
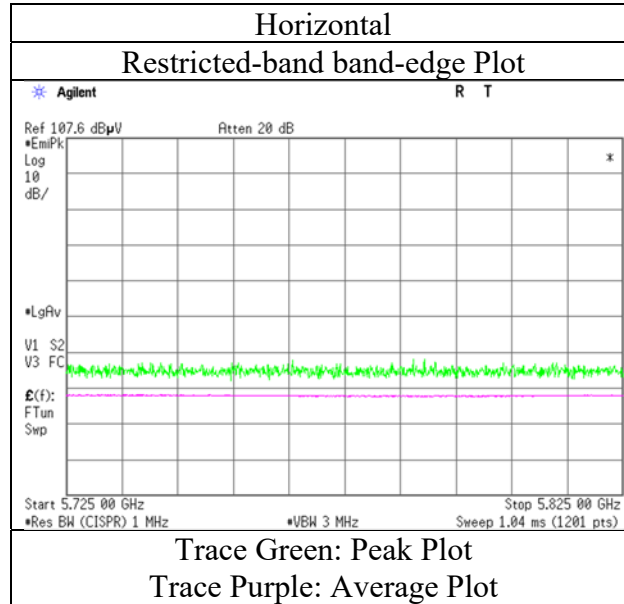
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (106-tone RU)

**RU Index 60**



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (242-tone RU)

RU Index 64

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	40.6	32.0	6.1	31.9	-	46.8	68.2	21.4	
Vert.	5725.000	PK	40.7	32.0	6.1	31.9	-	46.8	68.2	21.4	

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

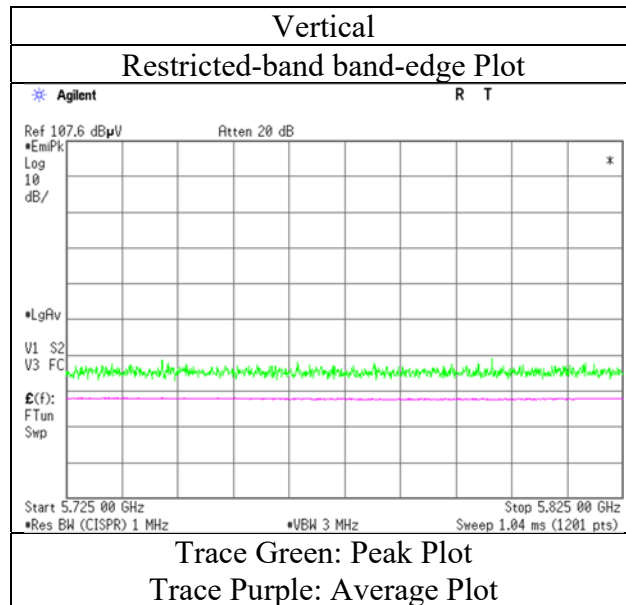
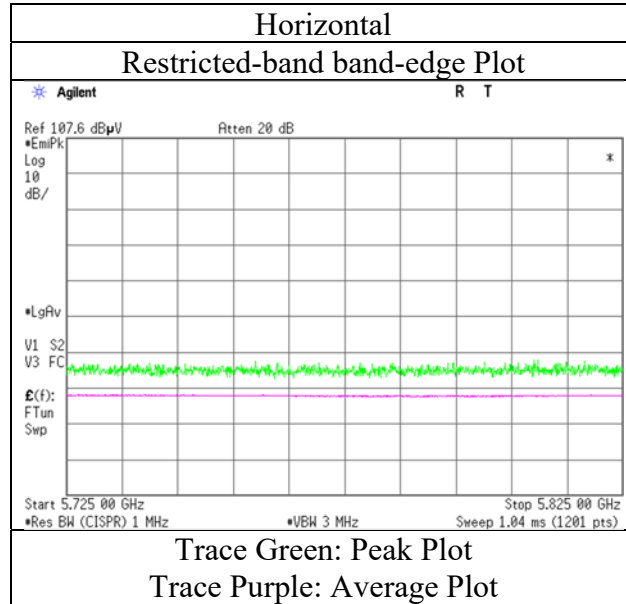
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (242-tone RU)

RU Index 64



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

**UL Japan, Inc.**

**Ise EMC Lab.**

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

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Facsimile : +81 596 24 8124

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (484-tone RU)

RU Index 66

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	40.6	32.0	6.1	31.9	-	46.8	68.2	21.4	
Vert.	5725.000	PK	40.9	32.0	6.1	31.9	-	47.0	68.2	21.2	

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

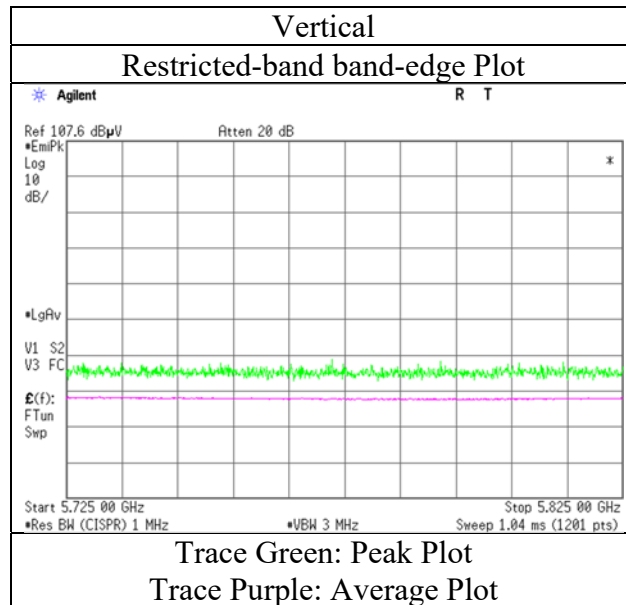
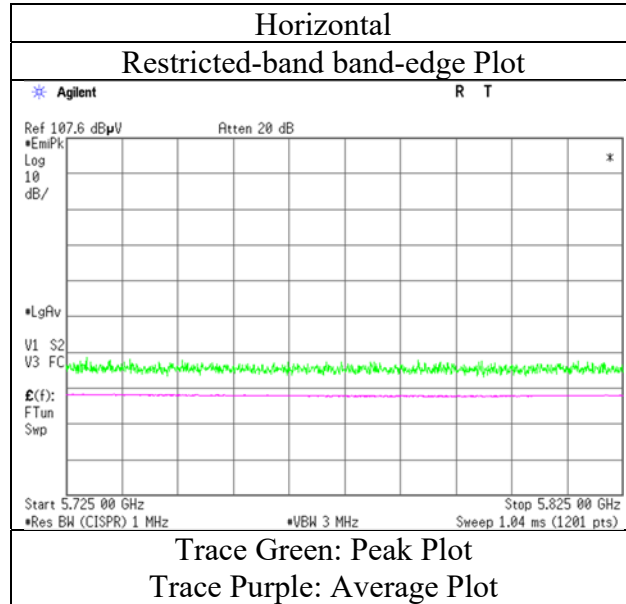
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 19, 2020  
Temperature / Humidity 22 deg. C / 42 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (484-tone RU)

RU Index 66



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

**UL Japan, Inc.**

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.4 Semi Anechoic Chamber  
Date April 10, 2020  
Temperature / Humidity 20 deg. C / 28 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (996-tone RU)

RU Index 67

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	41.2	32.5	6.5	31.4	-	48.8	68.2	19.4	
Vert.	5725.000	PK	42.1	32.5	6.5	31.4	-	49.7	68.2	18.5	

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

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

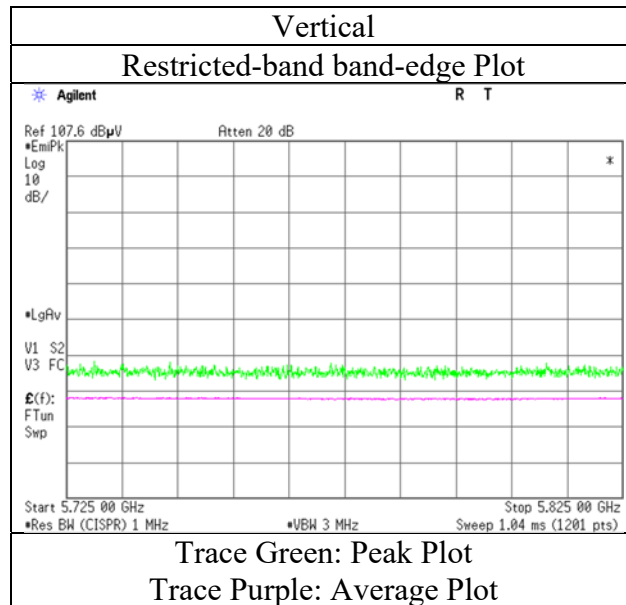
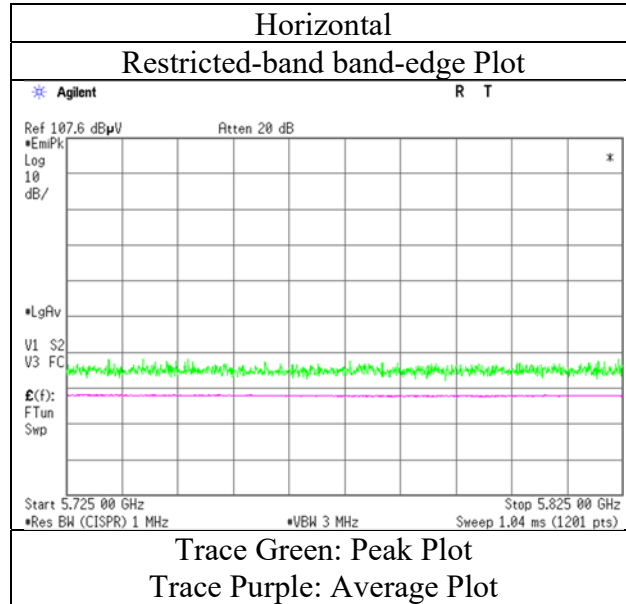
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$



**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.4 Semi Anechoic Chamber  
Date April 10, 2020  
Temperature / Humidity 20 deg. C / 28 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5610 MHz (996-tone RU)

RU Index 67



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

**UL Japan, Inc.**

**Ise EMC Lab.**

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (26-tone RU)

RU Index 0

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	42.0	31.8	6.1	31.9	-	48.0	68.2	20.2	
Hori.	5700.000	PK	41.9	31.9	6.1	31.9	-	48.0	105.2	57.2	
Hori.	5720.000	PK	41.9	32.0	6.1	31.9	-	48.1	110.8	62.8	
Hori.	5725.000	PK	42.3	32.0	6.1	31.9	-	48.5	122.2	73.7	
Vert.	5650.000	PK	42.0	31.8	6.1	31.9	-	48.0	68.2	20.2	
Vert.	5700.000	PK	41.9	31.9	6.1	31.9	-	48.0	105.2	57.2	
Vert.	5720.000	PK	42.0	32.0	6.1	31.9	-	48.1	110.8	62.7	
Vert.	5725.000	PK	42.3	32.0	6.1	31.9	-	48.5	122.2	73.8	

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

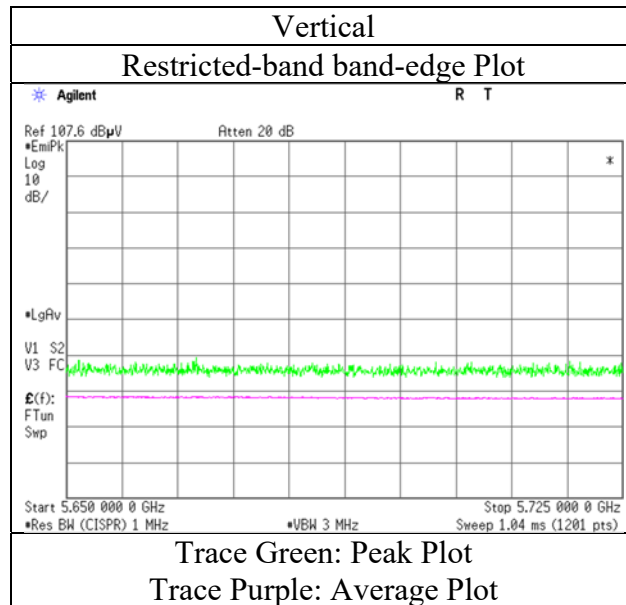
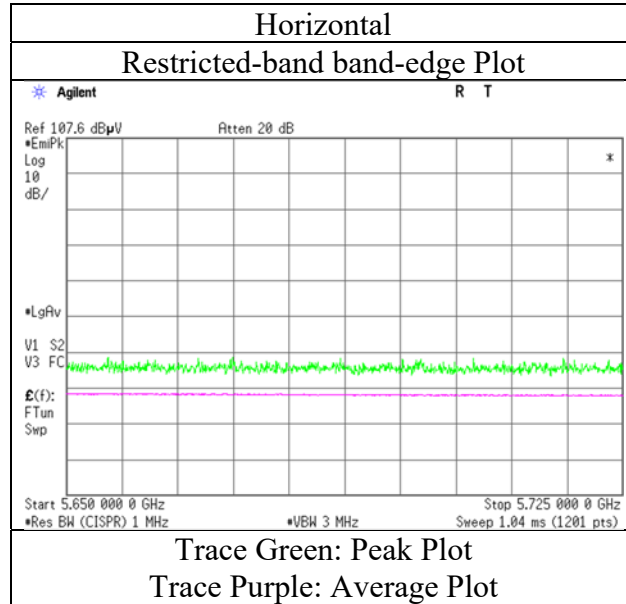
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (26-tone RU)

RU Index 0



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (52-tone RU)

RU Index 37

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	42.1	31.8	6.1	31.9	-	48.1	68.2	20.1	
Hori.	5700.000	PK	42.2	31.9	6.1	31.9	-	48.3	105.2	56.9	
Hori.	5720.000	PK	43.1	32.0	6.1	31.9	-	49.3	110.8	61.5	
Hori.	5725.000	PK	44.5	32.0	6.1	31.9	-	50.7	122.2	71.5	
Vert.	5650.000	PK	42.2	31.8	6.1	31.9	-	48.2	68.2	20.0	
Vert.	5700.000	PK	42.2	31.9	6.1	31.9	-	48.3	105.2	56.9	
Vert.	5720.000	PK	42.8	32.0	6.1	31.9	-	48.9	110.8	61.9	
Vert.	5725.000	PK	44.4	32.0	6.1	31.9	-	50.6	122.2	71.7	

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

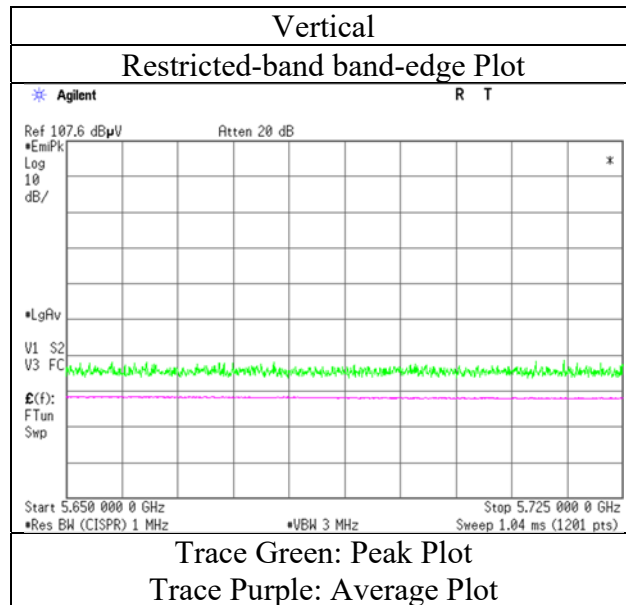
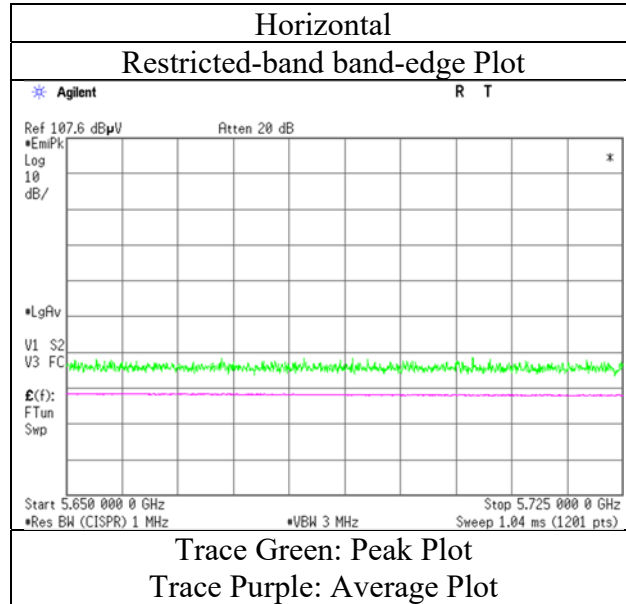
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (52-tone RU)

RU Index 37



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (106-tone RU)

RU Index 53

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	42.3	31.8	6.1	31.9	-	48.2	68.2	20.0	
Hori.	5700.000	PK	42.8	31.9	6.1	31.9	-	48.9	105.2	56.3	
Hori.	5720.000	PK	43.5	32.0	6.1	31.9	-	49.6	110.8	61.2	
Hori.	5725.000	PK	46.3	32.0	6.1	31.9	-	52.4	122.2	69.8	
Vert.	5650.000	PK	42.4	31.8	6.1	31.9	-	48.4	68.2	19.8	
Vert.	5700.000	PK	42.2	31.9	6.1	31.9	-	48.3	105.2	57.0	
Vert.	5720.000	PK	43.5	32.0	6.1	31.9	-	49.7	110.8	61.1	
Vert.	5725.000	PK	46.3	32.0	6.1	31.9	-	52.4	122.2	69.8	

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

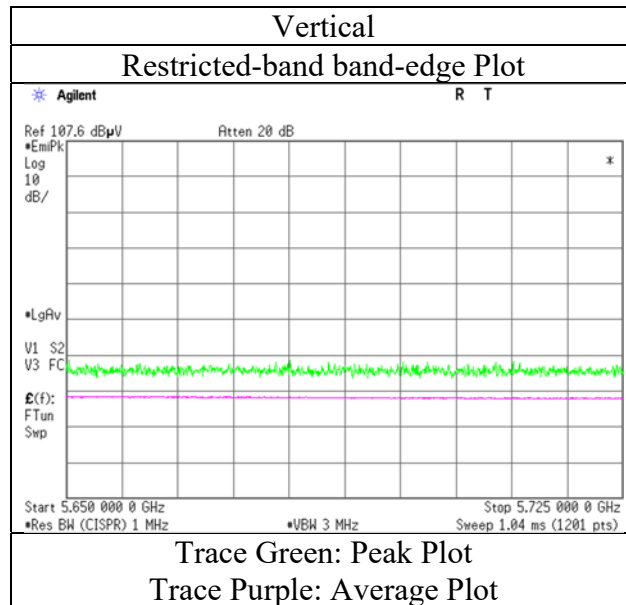
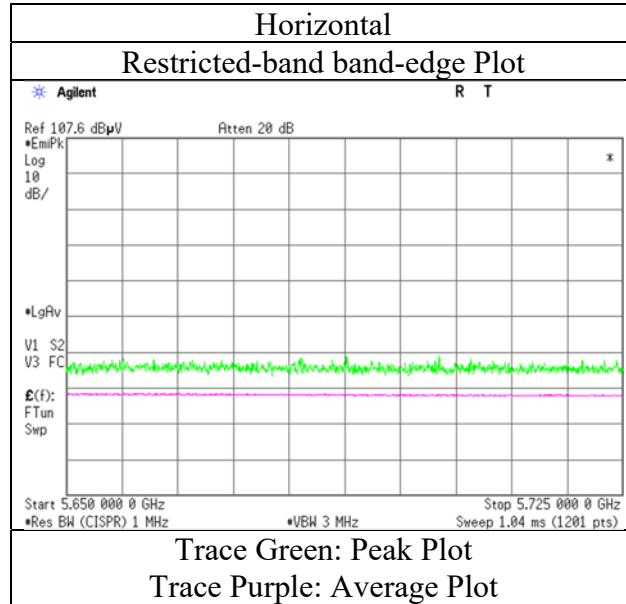
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (106-tone RU)

RU Index 53



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (242-tone RU)

RU Index 61

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	42.0	31.8	6.1	31.9	-	48.0	68.2	20.3	
Hori.	5700.000	PK	42.4	31.9	6.1	31.9	-	48.5	105.2	56.7	
Hori.	5720.000	PK	46.9	32.0	6.1	31.9	-	53.1	110.8	57.7	
Hori.	5725.000	PK	48.8	32.0	6.1	31.9	-	54.9	122.2	67.3	
Vert.	5650.000	PK	41.6	31.8	6.1	31.9	-	47.5	68.2	20.7	
Vert.	5700.000	PK	42.6	31.9	6.1	31.9	-	48.6	105.2	56.6	
Vert.	5720.000	PK	46.1	32.0	6.1	31.9	-	52.2	110.8	58.6	
Vert.	5725.000	PK	47.7	32.0	6.1	31.9	-	53.9	122.2	68.3	

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

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

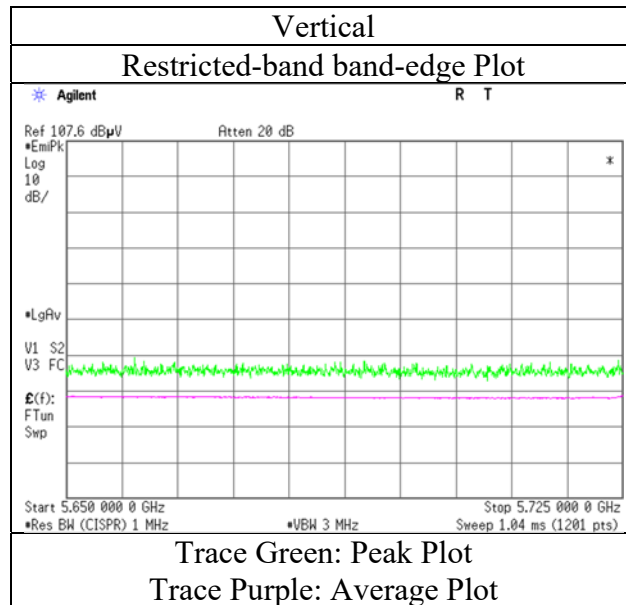
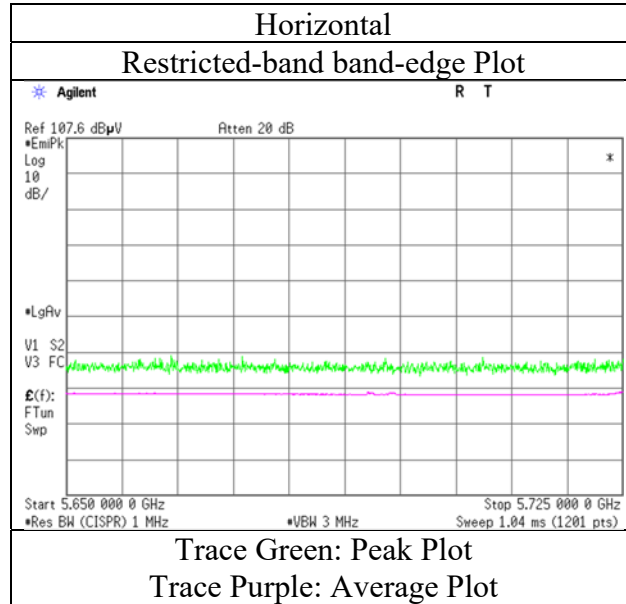
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$



**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (242-tone RU)

RU Index 61



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (484-tone RU)

RU Index 65

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	42.2	31.8	6.1	31.9	-	48.2	68.2	20.0	
Hori.	5700.000	PK	44.4	31.9	6.1	31.9	-	50.5	105.2	54.7	
Hori.	5720.000	PK	53.5	32.0	6.1	31.9	-	59.7	110.8	51.1	
Hori.	5725.000	PK	55.6	32.0	6.1	31.9	-	61.7	122.2	60.5	
Vert.	5650.000	PK	42.6	31.8	6.1	31.9	-	48.5	68.2	19.7	
Vert.	5700.000	PK	43.8	31.9	6.1	31.9	-	49.9	105.2	55.3	
Vert.	5720.000	PK	52.7	32.0	6.1	31.9	-	58.9	110.8	51.9	
Vert.	5725.000	PK	54.7	32.0	6.1	31.9	-	60.9	122.2	61.3	

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

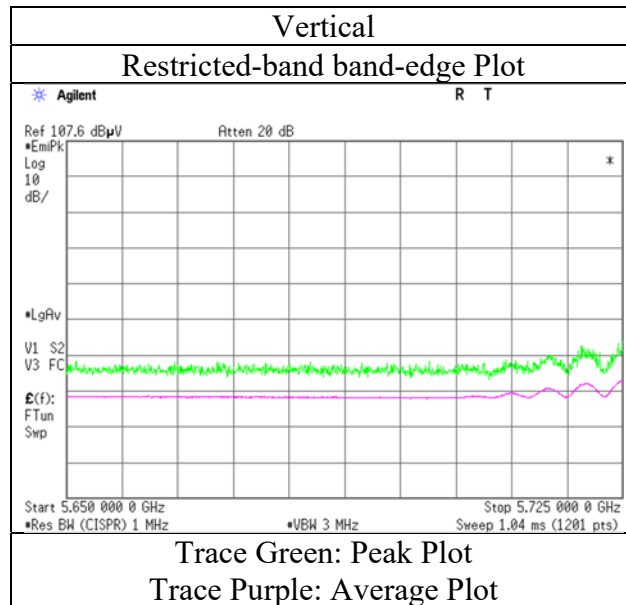
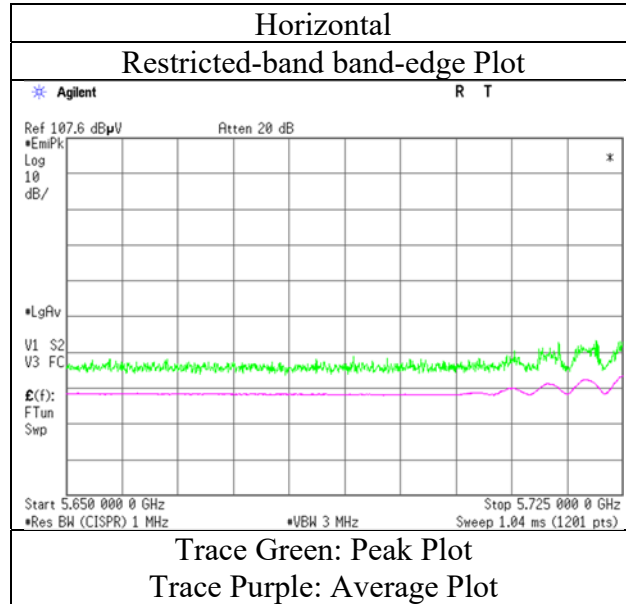
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
 (IFA Antenna)

Report No. 13170804H  
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
 Date February 20, 2020  
 Temperature / Humidity 23 deg. C / 28 % RH  
 Engineer Takafumi Noguchi  
 (1 GHz - 10 GHz)  
 Mode Tx 11ax-80 5775 MHz (484-tone RU)

RU Index 65



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

**UL Japan, Inc.**

**Ise EMC Lab.**

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (26-tone RU)

RU Index 36

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	42.1	32.2	6.1	31.9	-	48.6	122.2	73.6	
Hori.	5855.000	PK	41.9	32.2	6.1	31.9	-	48.3	110.8	62.5	
Hori.	5875.000	PK	42.0	32.3	6.2	31.9	-	48.5	105.2	56.7	
Hori.	5925.000	PK	42.2	32.3	6.2	31.9	-	48.7	68.2	19.5	
Vert.	5850.000	PK	42.1	32.2	6.1	31.9	-	48.6	122.2	73.6	
Vert.	5855.000	PK	41.8	32.2	6.1	31.9	-	48.3	110.8	62.5	
Vert.	5875.000	PK	41.8	32.3	6.2	31.9	-	48.3	105.2	56.9	
Vert.	5925.000	PK	42.0	32.3	6.2	31.9	-	48.5	68.2	19.7	

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

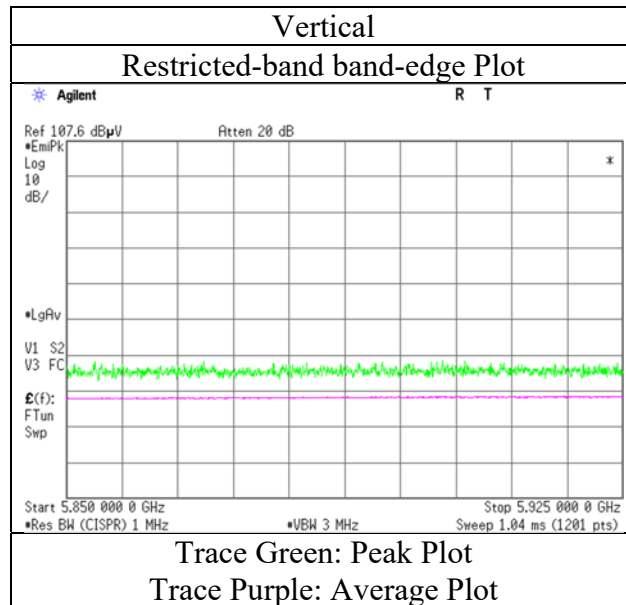
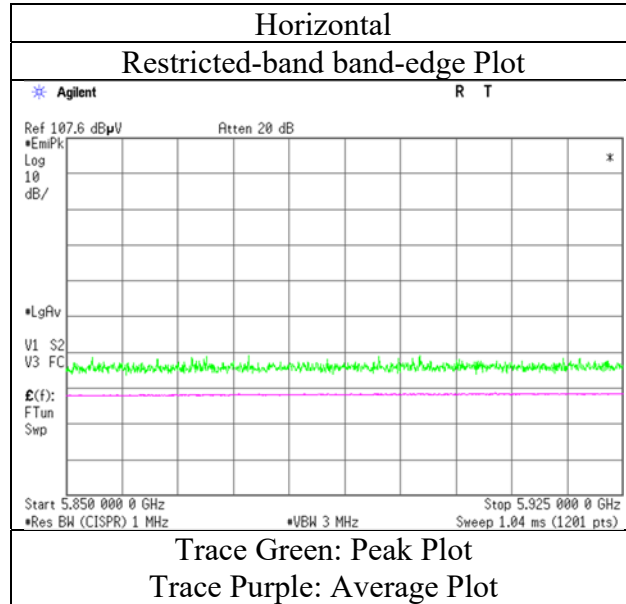
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (26-tone RU)

RU Index 36



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (52-tone RU)

RU Index 52

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	42.0	32.2	6.1	31.9	-	48.5	122.2	73.7	
Hori.	5855.000	PK	42.0	32.2	6.1	31.9	-	48.4	110.8	62.4	
Hori.	5875.000	PK	41.9	32.3	6.2	31.9	-	48.4	105.2	56.8	
Hori.	5925.000	PK	42.0	32.3	6.2	31.9	-	48.5	68.2	19.7	
Vert.	5850.000	PK	42.0	32.2	6.1	31.9	-	48.4	122.2	73.8	
Vert.	5855.000	PK	42.0	32.2	6.1	31.9	-	48.4	110.8	62.4	
Vert.	5875.000	PK	41.9	32.3	6.2	31.9	-	48.4	105.2	56.8	
Vert.	5925.000	PK	42.0	32.3	6.2	31.9	-	48.5	68.2	19.7	

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

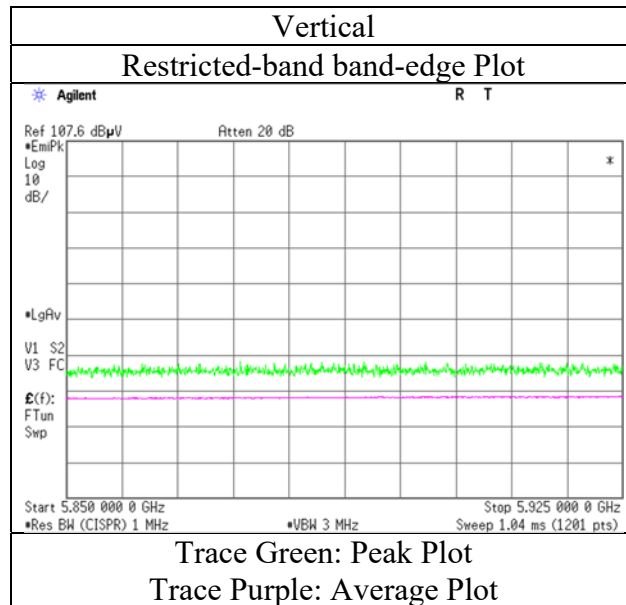
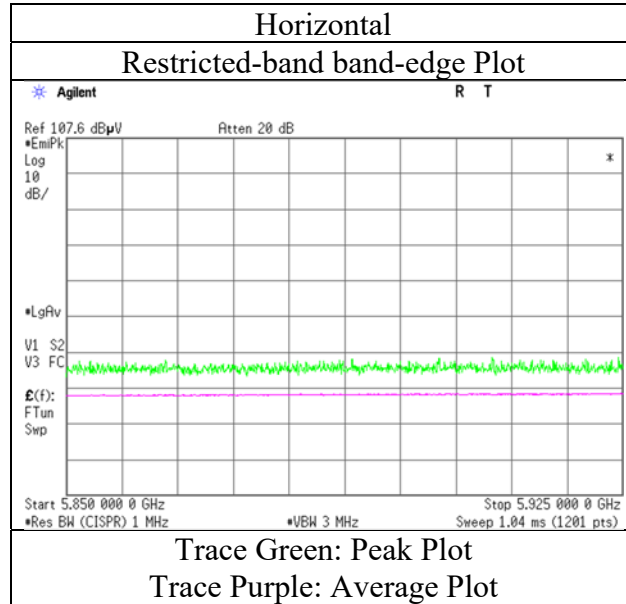
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (52-tone RU)

RU Index 52



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (106-tone RU)

RU Index 60

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	42.0	32.2	6.1	31.9	-	48.5	122.2	73.7	
Hori.	5855.000	PK	41.7	32.2	6.1	31.9	-	48.2	110.8	62.6	
Hori.	5875.000	PK	41.6	32.3	6.2	31.9	-	48.1	105.2	57.1	
Hori.	5925.000	PK	41.8	32.3	6.2	31.9	-	48.3	68.2	19.9	
Vert.	5850.000	PK	42.3	32.2	6.1	31.9	-	48.7	122.2	73.5	
Vert.	5855.000	PK	41.7	32.2	6.1	31.9	-	48.2	110.8	62.6	
Vert.	5875.000	PK	41.6	32.3	6.2	31.9	-	48.1	105.2	57.1	
Vert.	5925.000	PK	41.9	32.3	6.2	31.9	-	48.4	68.2	19.8	

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

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

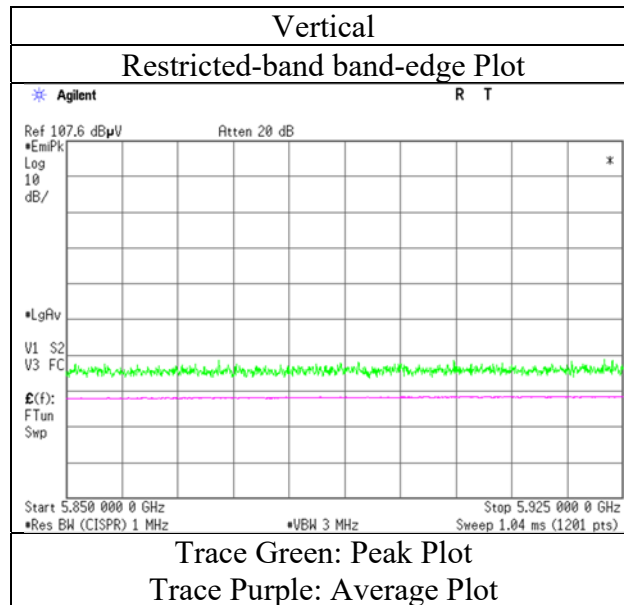
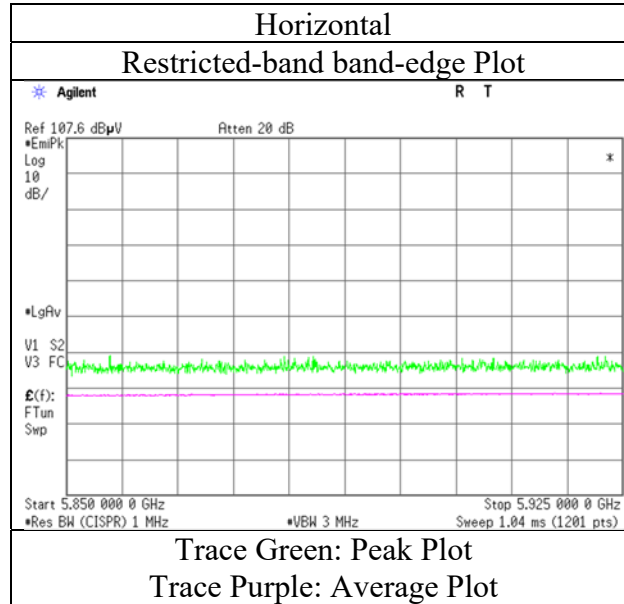
Distance factor: 1 GHz - 10 GHz  $20\log(3.9\text{ m} / 3.0\text{ m}) = 2.28\text{ dB}$



**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (106-tone RU)

RU Index 60



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (242-tone RU)

RU Index 64

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	42.4	32.2	6.1	31.9	-	48.8	122.2	73.4	
Hori.	5855.000	PK	42.1	32.2	6.1	31.9	-	48.6	110.8	62.2	
Hori.	5875.000	PK	42.1	32.3	6.2	31.9	-	48.6	105.2	56.6	
Hori.	5925.000	PK	41.8	32.3	6.2	31.9	-	48.4	68.2	19.9	
Vert.	5850.000	PK	42.1	32.2	6.1	31.9	-	48.6	122.2	73.6	
Vert.	5855.000	PK	42.1	32.2	6.1	31.9	-	48.6	110.8	62.2	
Vert.	5875.000	PK	42.1	32.3	6.2	31.9	-	48.6	105.2	56.6	
Vert.	5925.000	PK	42.0	32.3	6.2	31.9	-	48.5	68.2	19.7	

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

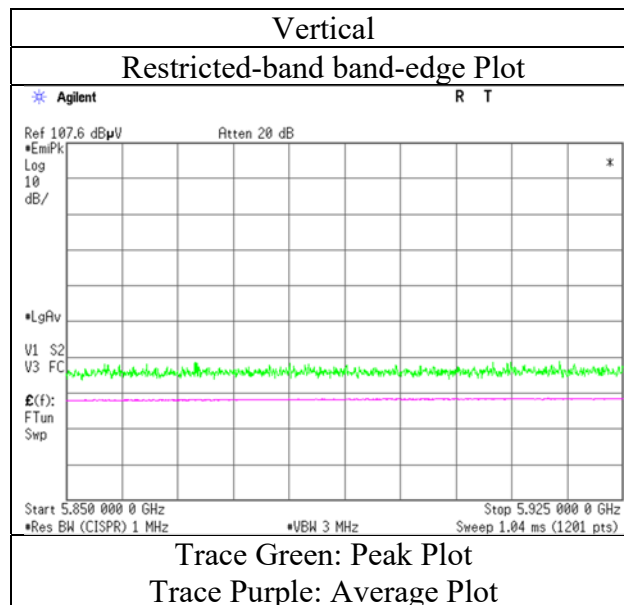
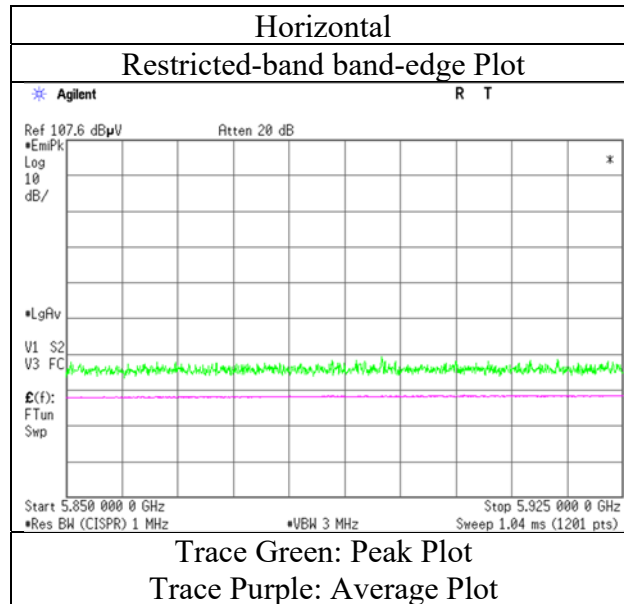
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (242-tone RU)

RU Index 64



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

**UL Japan, Inc.**

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Date February 20, 2020  
Temperature / Humidity 23 deg. C / 28 % RH  
Engineer Takafumi Noguchi  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (484-tone RU)

RU Index 66

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	44.4	32.2	6.1	31.9	-	50.9	122.2	71.3	
Hori.	5855.000	PK	44.4	32.2	6.1	31.9	-	50.9	110.8	59.9	
Hori.	5875.000	PK	42.5	32.3	6.2	31.9	-	49.0	105.2	56.2	
Hori.	5925.000	PK	42.1	32.3	6.2	31.9	-	48.6	68.2	19.6	
Vert.	5850.000	PK	44.3	32.2	6.1	31.9	-	50.8	122.2	71.4	
Vert.	5855.000	PK	43.3	32.2	6.1	31.9	-	49.8	110.8	61.0	
Vert.	5875.000	PK	42.5	32.3	6.2	31.9	-	48.9	105.2	56.3	
Vert.	5925.000	PK	42.5	32.3	6.2	31.9	-	49.0	68.2	19.2	

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

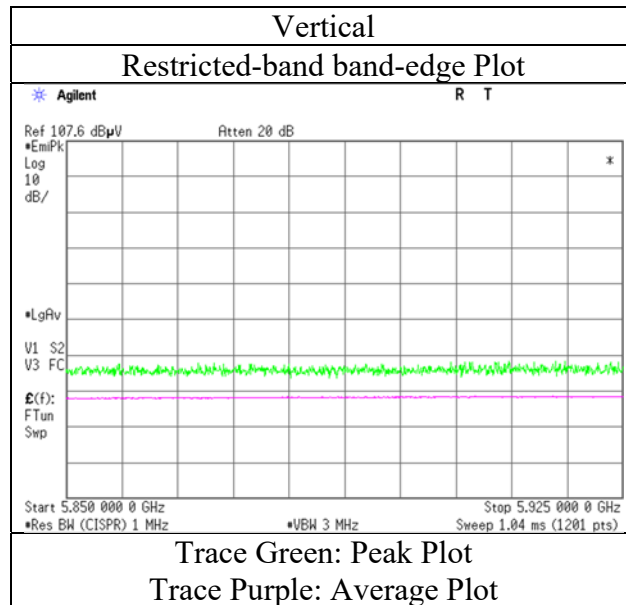
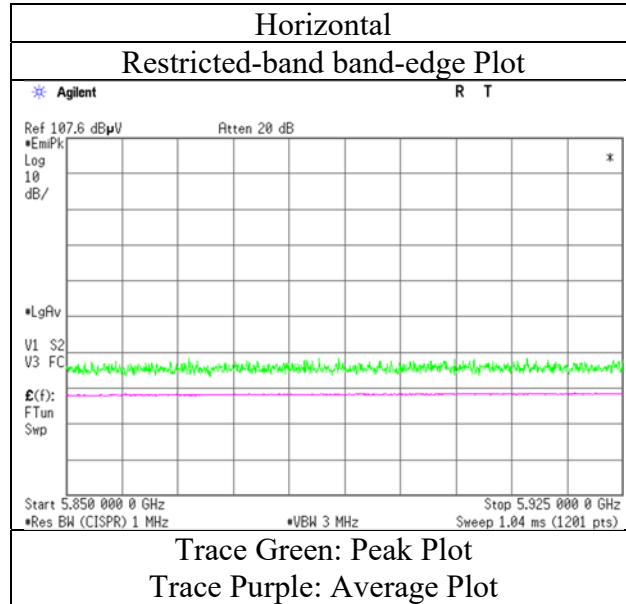
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
 (IFA Antenna)

Report No. 13170804H  
 Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
 Date February 20, 2020  
 Temperature / Humidity 23 deg. C / 28 % RH  
 Engineer Takafumi Noguchi  
 (1 GHz - 10 GHz)  
 Mode Tx 11ax-80 5775 MHz (484-tone RU)

RU Index 66



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

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**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.4 Semi Anechoic Chamber  
Date April 10, 2020  
Temperature / Humidity 20 deg. C / 28 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (996-tone RU)

RU Index 67

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	41.1	32.3	6.5	31.4	-	48.5	68.2	19.7	
Hori.	5700.000	PK	54.0	32.5	6.5	31.4	-	61.6	105.2	43.6	
Hori.	5720.000	PK	57.2	32.5	6.5	31.4	-	64.8	110.8	46.0	
Hori.	5725.000	PK	58.8	32.5	6.5	31.4	-	66.4	122.2	55.8	
Hori.	5850.000	PK	51.0	32.8	6.6	31.4	-	59.0	122.2	63.2	
Hori.	5855.000	PK	50.5	32.8	6.6	31.4	-	58.5	110.8	52.4	
Hori.	5875.000	PK	44.8	32.8	6.6	31.4	-	52.7	105.2	52.5	
Hori.	5925.000	PK	41.4	32.8	6.6	31.4	-	49.3	68.2	18.9	
Vert.	5650.000	PK	42.1	32.3	6.5	31.4	-	49.5	68.2	18.7	
Vert.	5700.000	PK	55.4	32.5	6.5	31.4	-	63.0	105.2	42.2	
Vert.	5720.000	PK	58.6	32.5	6.5	31.4	-	66.3	110.8	44.6	
Vert.	5725.000	PK	60.3	32.5	6.5	31.4	-	67.9	122.2	54.3	
Vert.	5850.000	PK	52.8	32.8	6.6	31.4	-	60.8	122.2	61.4	
Vert.	5855.000	PK	51.9	32.8	6.6	31.4	-	59.8	110.8	51.0	
Vert.	5875.000	PK	45.8	32.8	6.6	31.4	-	53.7	105.2	51.5	
Vert.	5925.000	PK	40.8	32.8	6.6	31.4	-	48.8	68.2	19.4	

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

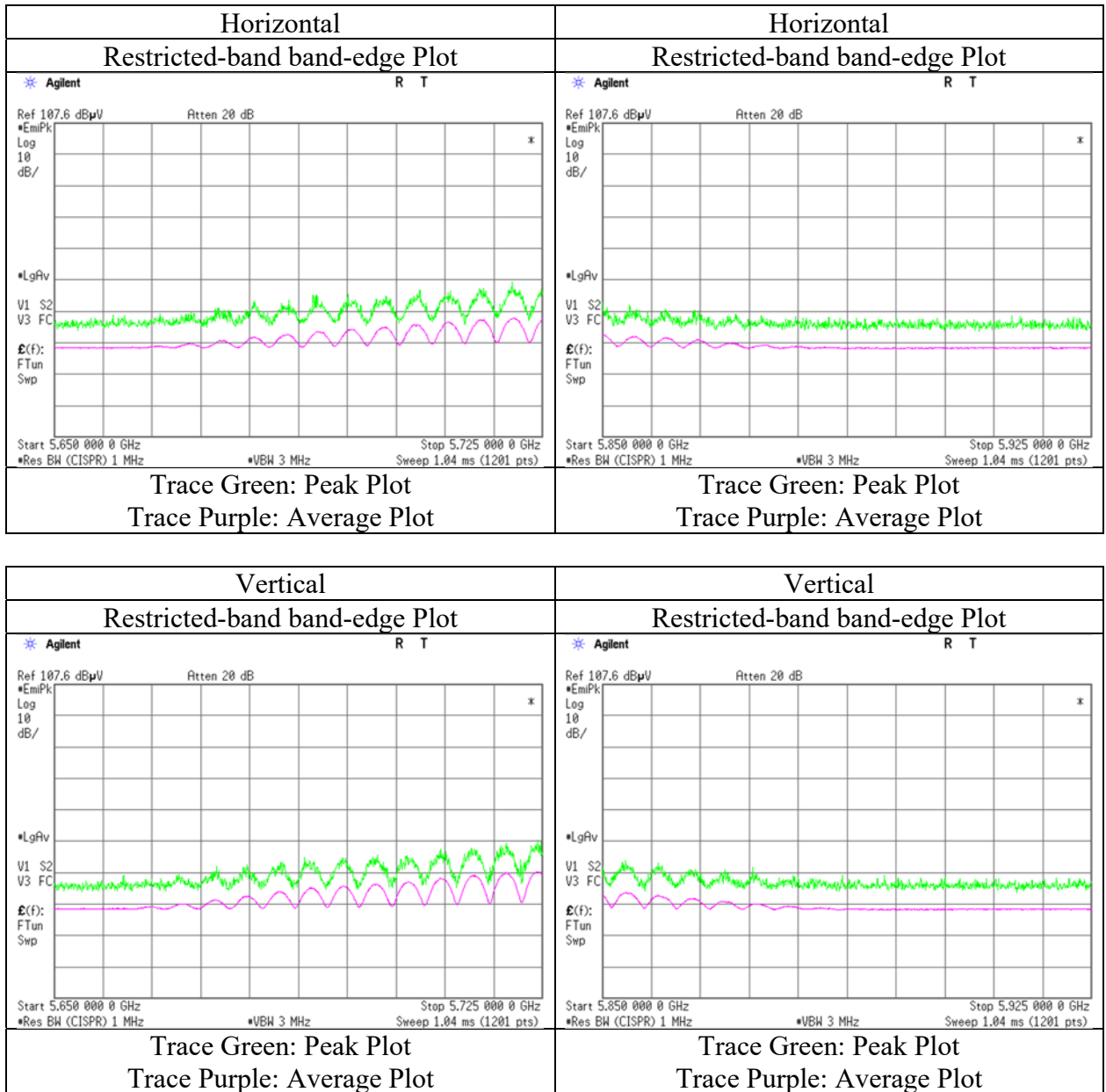
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.4 Semi Anechoic Chamber  
Date April 10, 2020  
Temperature / Humidity 20 deg. C / 28 % RH  
Engineer Yuta Moriya  
(1 GHz - 10 GHz)  
Mode Tx 11ax-80 5775 MHz (996-tone RU)

RU Index 67



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

**Radiated Spurious Emission**  
(IFA Antenna)

Report No. 13170804H  
Test place Ise EMC Lab. No.2 Semi Anechoic Chamber  
Date January 21, 2020 January 22, 2020  
Temperature / Humidity 23deg. C / 30 % RH 21 deg. C / 41 % RH  
Engineer Koji Yamamoto Takumi Shimada  
(1 GHz - 40 GHz) (Below1GHz)  
Mode Tx 11ax-80 5290 MHz (OFDM) + BT1 3DH5 Hopping

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	33.911	QP	28.6	17.2	7.1	30.5	-	22.4	40.0	17.6	
Hori.	52.966	QP	25.1	10.2	7.4	30.4	-	12.3	40.0	27.7	
Hori.	100.380	QP	25.5	10.4	8.0	30.2	-	13.6	43.5	29.9	
Hori.	363.212	QP	24.4	15.0	10.3	29.5	-	20.2	46.0	25.8	
Hori.	507.384	QP	24.1	17.5	11.1	30.0	-	22.7	46.0	23.3	
Hori.	967.858	QP	22.3	22.1	13.2	27.9	-	29.7	54.0	24.3	
Hori.	5350.000	PK	48.0	31.5	5.8	34.3	-	51.1	73.9	22.9	
Hori.	5354.922	PK	48.3	31.5	5.8	34.3	-	51.4	73.9	22.6	
Hori.	10580.000	PK	42.3	40.1	-2.1	34.5	-	45.8	68.2	22.4	Floor noise
Hori.	15870.000	PK	44.6	37.4	-0.4	34.2	-	47.4	73.9	26.5	Floor noise
Hori.	5350.000	AV	38.9	31.5	5.8	34.3	0.8	42.7	53.9	11.2	*1)
Hori.	5354.922	AV	39.1	31.5	5.8	34.3	0.8	42.9	53.9	11.0	*1)
Hori.	15870.000	AV	36.5	37.4	-0.4	34.2	-	39.3	53.9	14.6	Floor noise
Vert.	33.911	QP	32.3	17.2	7.1	30.5	-	26.1	40.0	13.9	
Vert.	52.966	QP	34.6	10.2	7.4	30.4	-	21.8	40.0	18.2	
Vert.	100.380	QP	26.5	10.4	8.0	30.2	-	14.6	43.5	28.9	
Vert.	363.212	QP	25.1	15.0	10.3	29.5	-	20.9	46.0	25.1	
Vert.	507.384	QP	24.1	17.5	11.1	30.0	-	22.7	46.0	23.3	
Vert.	967.858	QP	22.2	22.1	13.2	27.9	-	29.6	54.0	24.4	
Vert.	5350.000	PK	49.1	31.5	5.8	34.3	-	52.2	73.9	21.7	
Vert.	5354.922	PK	49.3	31.5	5.8	34.3	-	52.3	73.9	21.6	
Vert.	10580.000	PK	43.2	40.1	-2.1	34.5	-	46.6	68.2	21.6	Floor noise
Vert.	15870.000	PK	44.2	37.4	-0.4	34.2	-	47.0	73.9	26.9	Floor noise
Vert.	5350.000	AV	39.1	31.5	5.8	34.3	0.8	42.9	53.9	11.0	*1)
Vert.	5354.922	AV	39.4	31.5	5.8	34.3	0.8	43.2	53.9	10.7	*1)
Vert.	15870.000	AV	36.1	37.4	-0.4	34.2	-	38.9	53.9	15.0	Floor noise

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

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

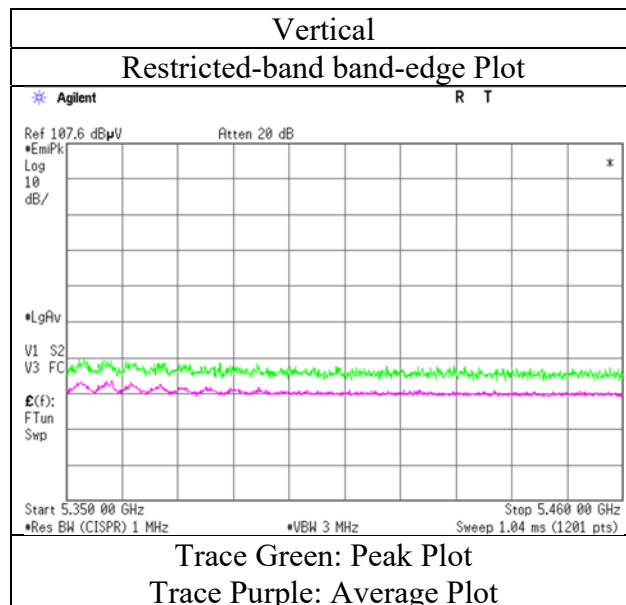
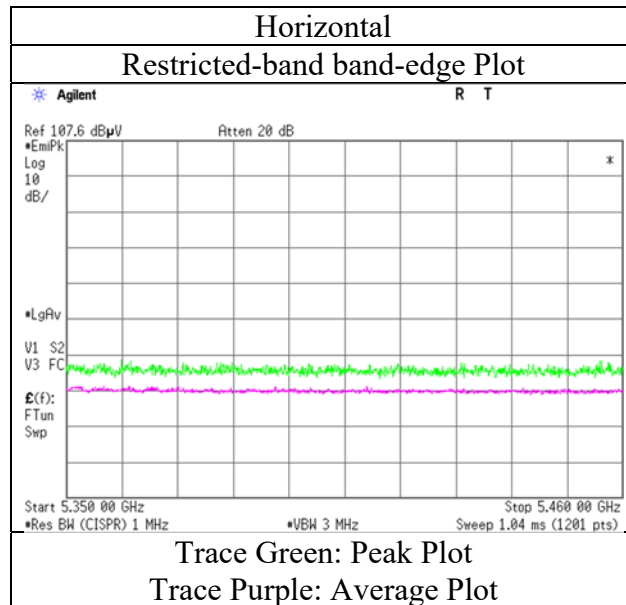
Distance factor: 1 GHz - 10 GHz 20log(3.65 m / 3.0 m) = 1.71 dB  
10 GHz - 26.5 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

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



**Radiated Spurious Emission**  
 (IFA Antenna)

Report No. 13170804H  
 Test place Ise EMC Lab. No.2 Semi Anechoic Chamber  
 Date January 21, 2020  
 Temperature / Humidity 23deg. C / 30 % RH  
 Engineer Koji Yamamoto  
 Mode Tx 11ax-80 5290 MHz (OFDM) + BT1 3DH5 Hopping



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

**UL Japan, Inc.**

**Ise EMC Lab.**

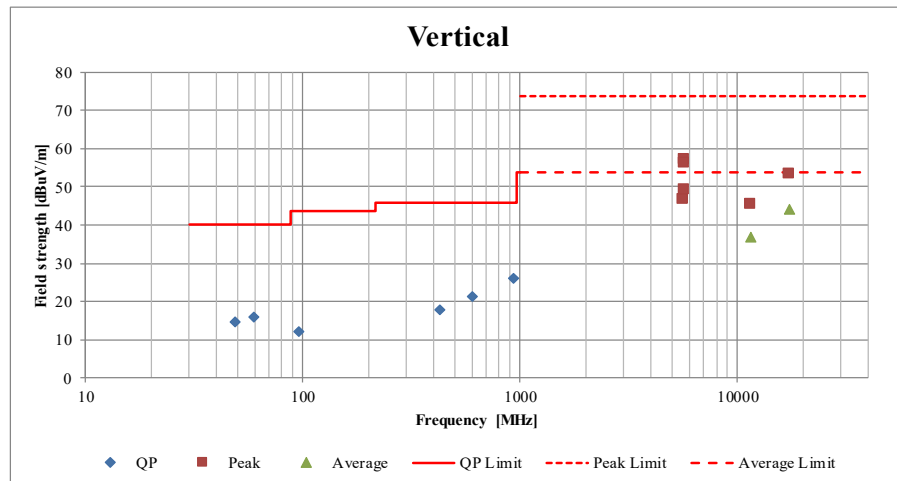
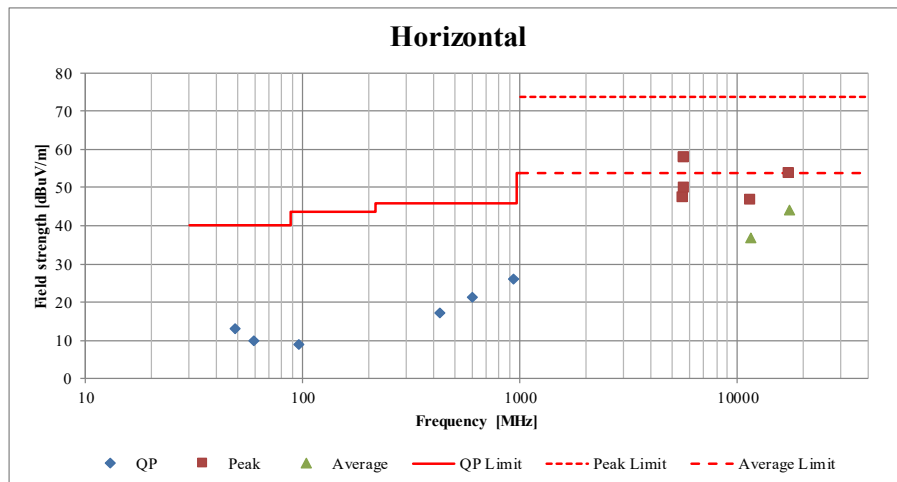
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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**Radiated Spurious Emission**  
**(Plot data, Worst case)**  
 (IFA Antenna)

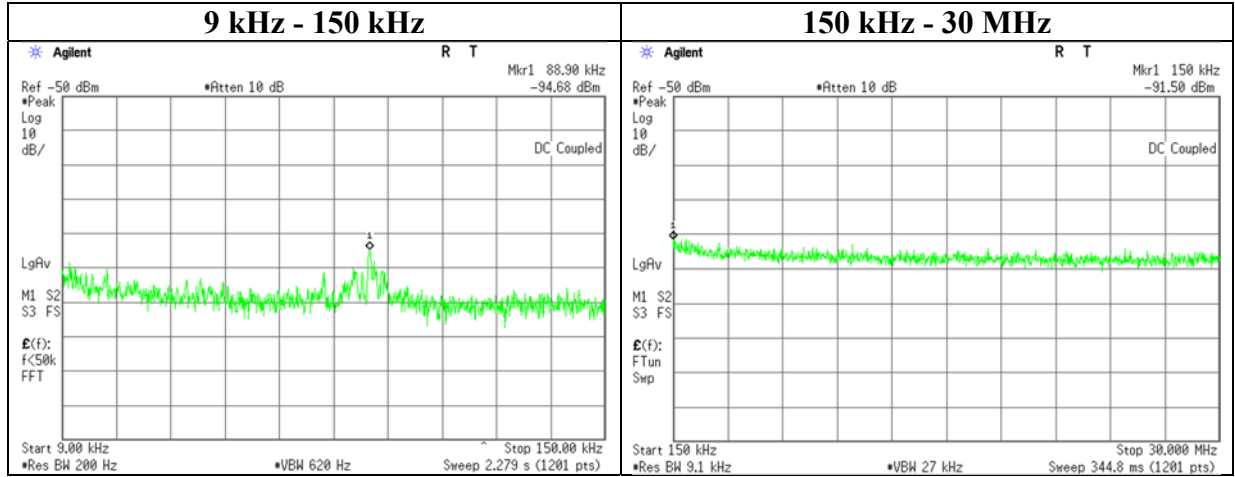
Report No.	13170804H			
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber			
Date	January 7, 2020	January 7, 2020	January 8, 2020	January 10, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH	24 deg. C / 35 % RH
Engineer	Junki Nagatomi (1 GHz - 10 GHz)	Tomohisa Nakagawa (10 GHz - 18 GHz) (26.5 GHz - 40 GHz)	Junki Nagatomi (18 GHz - 26.5 GHz)	Tomohisa Nakagawa (Below 1GHz)
Mode	Tx 11ax-40 5755 MHz (OFDM)			



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

## Conducted Spurious Emission

Report No. 13170804H  
Test place Ise EMC Lab. No.3 Measurement Room  
Date December 22, 2019  
Temperature / Humidity 22 deg. C / 38 % RH  
Engineer Akihiko Maeda  
Mode Tx 11ax-40 (OFDM) 5755 MHz



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator [dB]	Antenna Gain [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
88.90	-94.7	0.01	9.9	7.29	2	-74.5	300	6.0	-13.2	28.6	41.8	
150.00	-91.5	0.01	9.9	7.29	2	-71.3	300	6.0	-10.0	24.0	34.0	

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

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

N: Number of output

The worst antenna gain was applied.

## APPENDIX 2: Test instruments

### Test Instruments (1/3)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Calibration Due Date	Cal Int
RE/AT/CE	141532	DIGITAL HiTESTER	HIOKI	3805	51201197	01/06/2020	01/31/2021	12
RE/CE	141152	EMI measurement program	TSJ	TEPTO-DV	-	-	-	-
RE/AT/CE	141554	Thermo-Hygrometer	CUSTOM	CTH-201	1301	01/07/2020	01/31/2021	12
RE	141507	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	09/26/2019	09/30/2020	12
RE	142013	AC3_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	04/08/2019	04/30/2021	24
RE	141580	MicroWave System Amplifier	Keysight Technologies Inc	83017A	MY39500779	03/05/2019	03/31/2020 *1)	12
RE	177964	Microwave Cable	Junkosha INC.	MMX221	1901S329(1 m)/1902S579 (5m)	03/02/2020	03/31/2021	12
RE/CE	142008	AC3_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	06/26/2018	06/30/2020	24
RE/CE	141899	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY46180655	08/07/2019	08/31/2020	12
RE/AT/CE	142183	Measure	KOMELON	KMC-36	-	-	-	-
AT	141176	RPR3006W measurement software	DARE!! Instruments	RadiMation 2014.2.1	-	-	-	-
AT	141420	Attenuator	Weinschel Associates	WA56-10	56100307	05/17/2019	05/31/2020	12
AT	141419	Attenuator	Weinschel Associates	WA56-10	56100305	05/17/2019	05/31/2020	12
AT	141814	Power Meter	DARE!! Instruments	RPR3006W	14I00048SN O082	11/06/2019	11/30/2020	12
AT	141813	Power Meter	DARE!! Instruments	RPR3006W	14I00048SN O081	08/22/2019	08/31/2020	12
AT	141855	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187750	11/19/2019	11/30/2020	12
AT	141226	Microwave Cable	Junkosha	MMX221-00500DM SDMS	1502S304	03/05/2019	03/31/2020 *1)	12
AT/RE	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	10/09/2019	10/31/2020	12
AT	141194	Antenna Terminal Measurement Software	UL Japan	-	-	-	-	-
AT	141327	Coaxial Cable	UL Japan	-	-	02/04/2020	02/28/2021	12
AT	141156	Attenuator(10dB)	Weinschel Corp	2	BL1173	11/07/2019	11/30/2020	12
AT	141821	Power Splitters/Combiners	Mini-Circuit	ZFSC-2-10G	326	09/12/2019	09/30/2020	12
RE	141885	Spectrum Analyzer	Keysight Technologies Inc	E4448A	US44300523	11/21/2019	11/30/2020	12
RE	141517	Horn Antenna 26.5-40GHz	ETS LINDGREN	3160-10	152399	09/19/2019	09/30/2020	12
RE	141904	Spectrum Analyzer	Keysight Technologies Inc	N9030A	US51350215	09/20/2019	09/30/2020	12
RE	141588	Pre Amplifier	MITEQ, Inc	AMF-6F-2600400-33-8P / AMF-4F-2600	1871355 /1871328	09/27/2019	09/30/2020	12
RE	160324	Coaxial Cable	Huber+Suhner	SUCOFLEX 102A	MY009/2A	11/22/2019	11/30/2020	12

### UL Japan, Inc.

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**Test Instruments (2/3)**

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Calibration Due Date	Cal Int
RE	141293	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCB	602	01/06/2020	01/31/2021	12
RE	141513	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170306	10/08/2019	10/31/2020	12
RE	141266	Logperiodic Antenna(200-1000M Hz)	Schwarzbeck	VUSLP9111B	9111B-191	08/24/2019	08/31/2020	12
RE	141949	Test Receiver	Rohde & Schwarz	ESCI	100767	08/02/2019	08/31/2020	12
RE	142314	Attenuator	Pasternack	PE7390-6	D/C 1504	06/11/2019	06/30/2020	12
RE	141323	Coaxial cable	UL Japan	-	-	07/02/2019	07/31/2020	12
RE	141424	Biconical Antenna	Schwarzbeck	VHA9103+BBA9106	1915	08/24/2019	08/31/2020	12
RE	141582	Pre Amplifier	SONOMA INSTRUMENT	310	260834	02/10/2020	02/28/2021	12
CE	141357	LISN(AMN)	Schwarzbeck	NSLK8127	8127-729	07/05/2019	07/31/2020	12
CE	141216	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W/SFM14/sucoform141-PE/421-010	-/00640	07/02/2019	07/31/2020	12
CE	141247	Attenuator(13dB)	JFW Industries, Inc.	50FP-013H2 N	-	12/02/2019	12/31/2020	12
CE	146754	Test Receiver	Rohde & Schwarz	ESCI	100299	10/08/2019	10/31/2020	12
RE	141427	Biconical Antenna	Schwarzbeck	VHA9103B+BBA9106	8031	08/23/2019	08/31/2020	12
RE	142004	AC2_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	06/29/2018	06/30/2020	24
RE	142006	AC2_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/01/2019	04/30/2021	24
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/20/2019	08/31/2020	12
RE	141579	Pre Amplifier	Keysight Technologies Inc	8449B	3008A02142	01/07/2020	01/31/2021	12
RE	141512	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	254	09/03/2019	09/30/2020	12
RE	141392	Microwave Cable	Junkosha	MWX221	1604S253(1 m) / 537073/126E (5 m)	02/18/2020	02/28/2021	12
RE	141406	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	7001	09/12/2019	09/30/2020	12
RE	141503	Horn Antenna 18-26.5GHz	EMCO	3160-09	1265	10/08/2019	10/31/2020	12
RE	141279	Microwave Cable	Junkosha	MMX221-00500DM SDMS	1502S303	03/05/2019	03/31/2020 *1)	12
RE	141578	Pre Amplifier	Keysight Technologies Inc	8447D	2944A10845	09/06/2019	09/30/2020	12
RE	141317	Coaxial Cable	Fujikura/Agilent	-	-	09/03/2019	09/30/2020	12
RE	141203	Attenuator(6dB)	Weinschel Corp	2	BK7970	11/07/2019	11/30/2020	12
RE	141265	Logperiodic Antenna(200-1000M Hz)	Schwarzbeck	VUSLP9111B	9111B-190	08/23/2019	08/31/2020	12
RE	192300	Thermo-Hygrometer	CUSTOM	CTH-201	0013	12/19/2019	12/31/2020	12
AT	141572	Thermo-Hygrometer	CUSTOM	CTH-201	3401	01/07/2020	01/31/2021	12
AT	141414	Microwave Cable	Junkosha	MWX221	1207S407	08/06/2019	08/31/2020	12
AT	141900	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46185823	11/20/2019	11/30/2020	12
AT	141816	Power Meter	DARE!! Instruments	RPR3006W	14I00048SN0084	11/06/2019	11/30/2020	12

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**Test Instruments (3/3)**

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Calibration Due Date	Cal Int
RE	141545	DIGITAL HiTESTER	HIOKI	3805	51201148	01/6/2020	01/31/2021	12
RE	142017	AC4_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	04/4/2019	04/30/2021	24
RE	141562	Thermo-Hygrometer	CUSTOM	CTH-201	0010	01/7/2020	01/31/2021	12
RE	141412	Microwave Cable	Junkosha	MWX221	1305S002R(1m) / 1405S146(5m)	06/17/2019	06/30/2020	12
RE	141581	MicroWave System Amplifier	Keysight Technologies Inc	83017A	650	10/16/2019	10/31/2020	12
RE	141508	Horn Antenna 1-18GHz	Schwarzbeck Mess - Elektronik	BBHA9120D	9120D-557	09/26/2019	09/30/2020	12
RE	142227	Measure	KOMELON	KMC-36	-	-	-	-
AT	141338	Attenuator	Weinschel Associates	WA1-20-33	100130	04/02/2020	04/30/2021	12
AT	141250	Attenuator	Weinschel Associates	WA1-20-33	100133	04/02/2020	04/30/2021	12

**\*1) This test equipment was used for the tests before the expiration date of the calibration.**

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

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

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

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

**Test item:**

- CE: Conducted Emission test**
- RE: Radiated Emission test**
- AT: Antenna Terminal Conducted test**