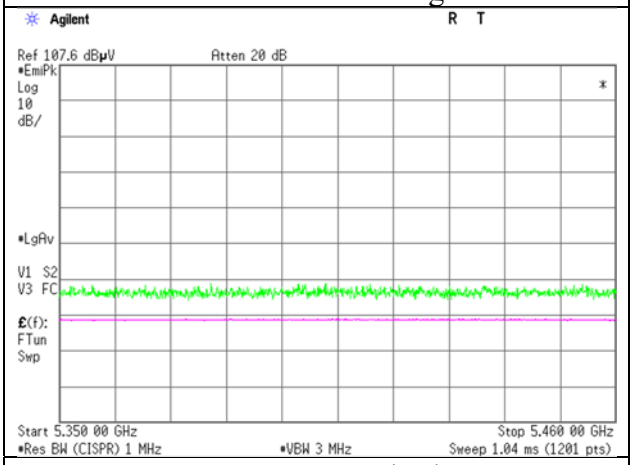
Radiated Spurious Emission
(PIFA Antenna)

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

RU Index 44

Horizontal

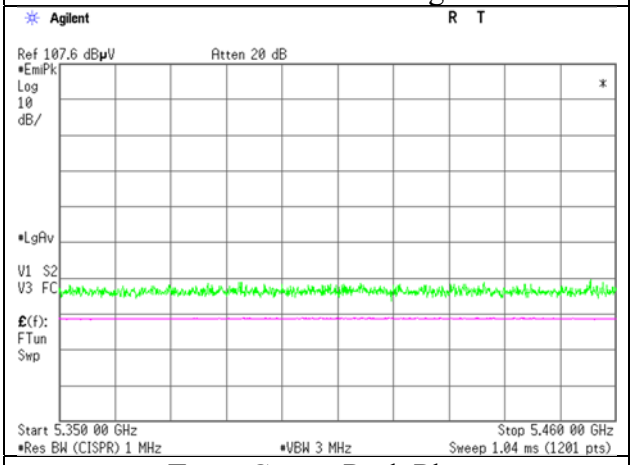
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 28 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (106-tone RU)

RU Index 56

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5350.000	PK	40.9	31.5	6.0	31.8	-	46.4	73.9	27.5	
Hori.	5350.000	AV	30.8	31.5	6.0	31.8	2.6	38.9	53.9	15.0	*1)
Vert.	5350.000	PK	40.8	31.5	6.0	31.8	-	46.4	73.9	27.5	
Vert.	5350.000	AV	30.9	31.5	6.0	31.8	2.6	39.0	53.9	14.9	*1)

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

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

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

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

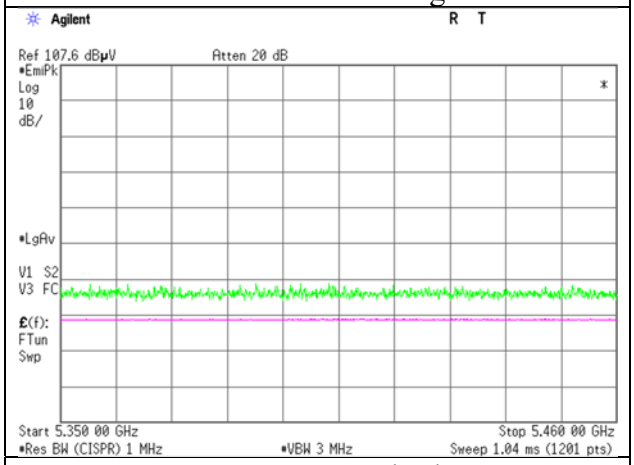
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 28 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (106-tone RU)

RU Index 56

Horizontal

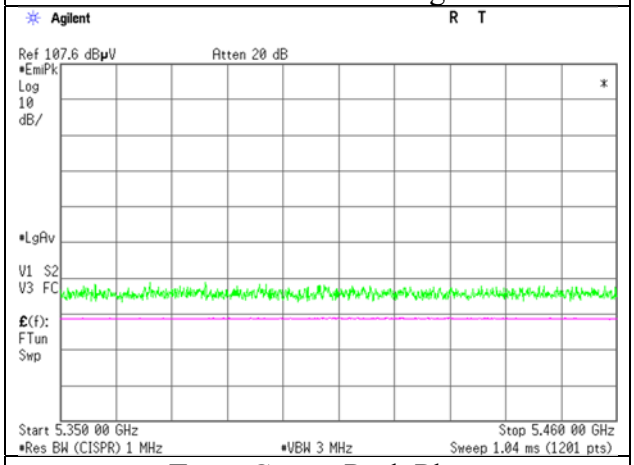
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 28 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (242-tone RU)

RU Index 62

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5350.000	PK	40.4	31.5	6.0	31.8	-	46.0	73.9	27.9	
Hori.	5350.000	AV	30.9	31.5	6.0	31.8	3.2	39.7	53.9	14.2	*1)
Vert.	5350.000	PK	40.5	31.5	6.0	31.8	-	46.1	73.9	27.8	
Vert.	5350.000	AV	30.7	31.5	6.0	31.8	3.2	39.5	53.9	14.4	*1)

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

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

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

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

Radiated Spurious Emission

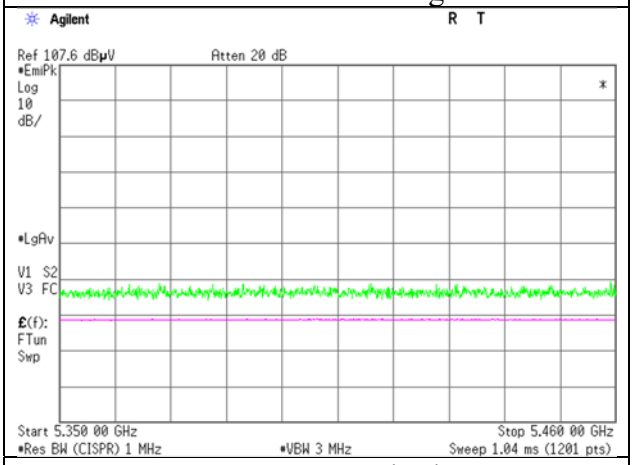
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 28 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (242-tone RU)

RU Index 62

Horizontal

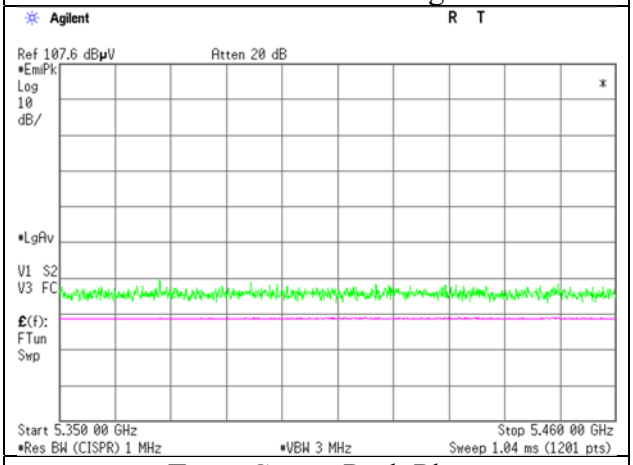
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 7, 2020
Temperature / Humidity	21 deg. C / 25 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 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.	5350.000	PK	56.1	31.5	6.1	31.7	-	61.9	73.9	12.0	
Hori.	5350.000	AV	44.9	31.5	6.1	31.7	0.3	51.0	53.9	2.9	*1)
Vert.	5350.000	PK	56.1	31.5	6.1	31.7	-	61.9	73.9	12.0	
Vert.	5350.000	AV	45.5	31.5	6.1	31.7	0.3	51.5	53.9	2.4	*1)

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

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

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

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

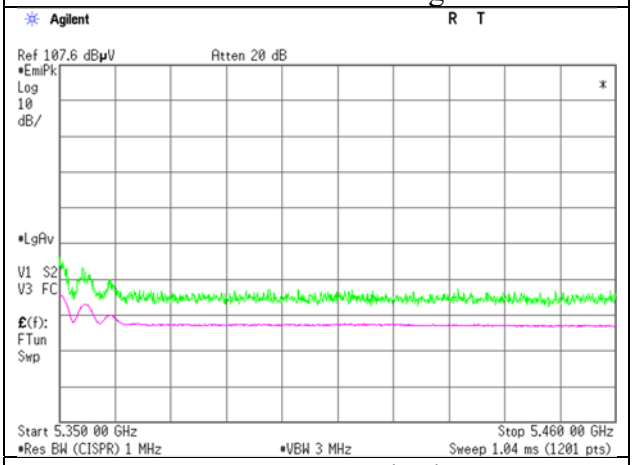
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 7, 2020
Temperature / Humidity	21 deg. C / 25 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (484-tone RU)

RU Index 65

Horizontal

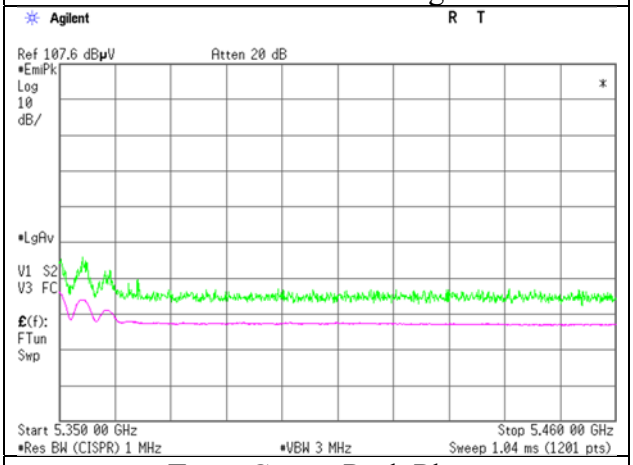
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 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	40.1	31.7	6.0	31.9	-	45.9	68.2	22.3	
Hori.	5470.000	PK	40.3	31.7	6.0	31.9	-	46.1	68.2	22.1	
Hori.	5460.000	AV	31.9	31.7	6.0	31.9	0.2	37.9	53.9	16.0	*1)
Vert.	5460.000	PK	40.1	31.7	6.0	31.9	-	45.9	68.2	22.3	
Vert.	5470.000	PK	40.4	31.7	6.0	31.9	-	46.2	68.2	22.0	
Vert.	5460.000	AV	31.9	31.7	6.0	31.9	0.2	37.9	53.9	16.0	*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 20log (3.9 m / 3.0 m) = 2.28 dB

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

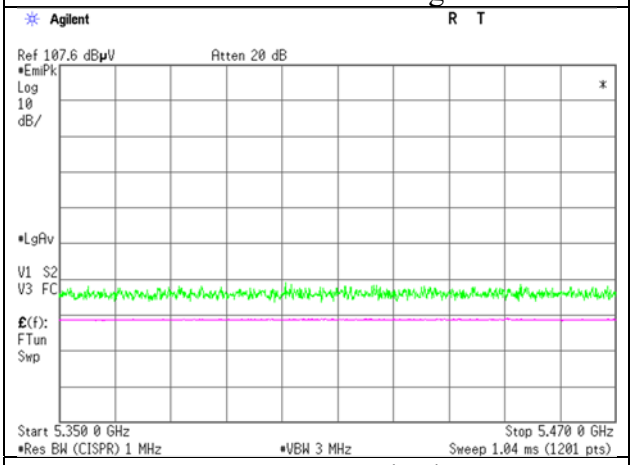
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (26-tone RU)

RU Index 0

Horizontal

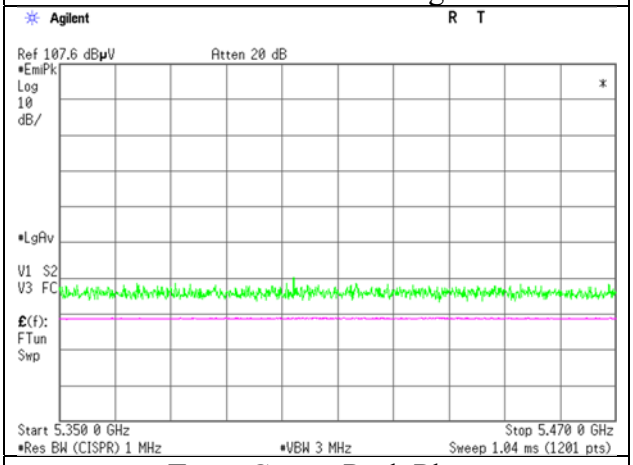
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 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	40.1	31.7	6.0	31.9	-	45.9	68.2	22.3	
Hori.	5470.000	PK	40.3	31.7	6.0	31.9	-	46.2	68.2	22.1	
Hori.	5460.000	AV	32.1	31.7	6.0	31.9	0.2	38.1	53.9	15.8	*1)
Vert.	5460.000	PK	40.2	31.7	6.0	31.9	-	46.0	68.2	22.2	
Vert.	5470.000	PK	40.4	31.7	6.0	31.9	-	46.3	68.2	21.9	
Vert.	5460.000	AV	32.0	31.7	6.0	31.9	0.2	38.0	53.9	15.9	*1)

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

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

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

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

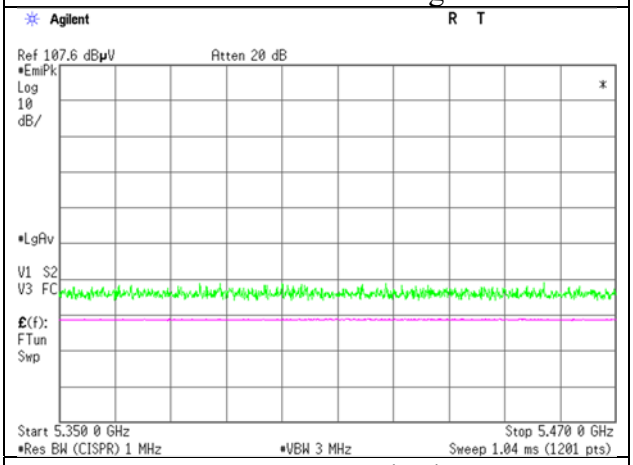
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (52-tone RU)

RU Index37

Horizontal

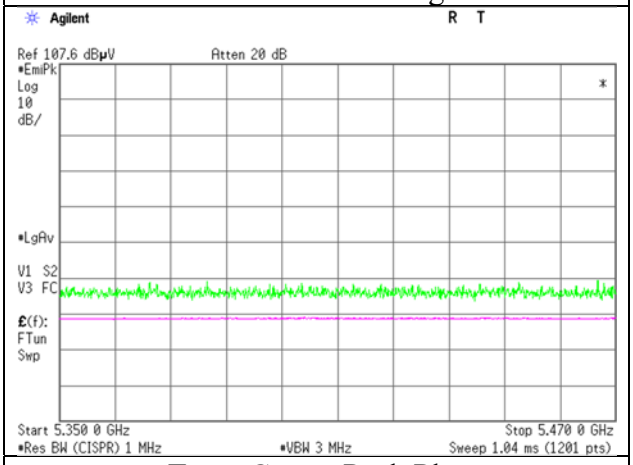
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 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	40.6	31.7	6.0	31.9	-	46.4	68.2	21.8	
Hori.	5470.000	PK	40.7	31.7	6.0	31.9	-	46.5	68.2	21.7	
Hori.	5460.000	AV	32.5	31.7	6.0	31.9	0.2	38.5	53.9	15.4	*1)
Vert.	5460.000	PK	40.5	31.7	6.0	31.9	-	46.3	68.2	21.9	
Vert.	5470.000	PK	40.6	31.7	6.0	31.9	-	46.4	68.2	21.8	
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 20log (3.9 m / 3.0 m) = 2.28 dB

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

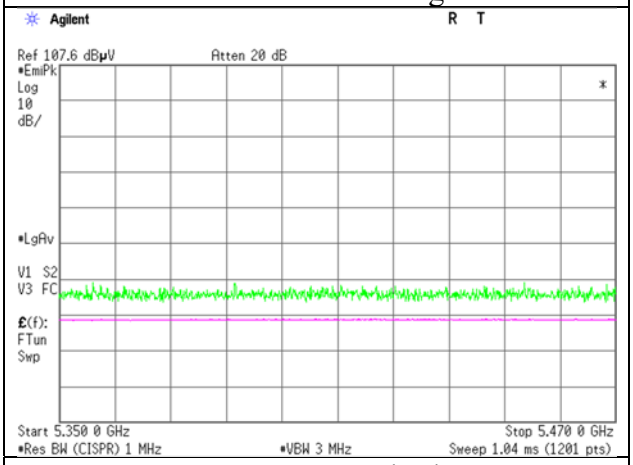
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (106-tone RU)

RU Index 53

Horizontal

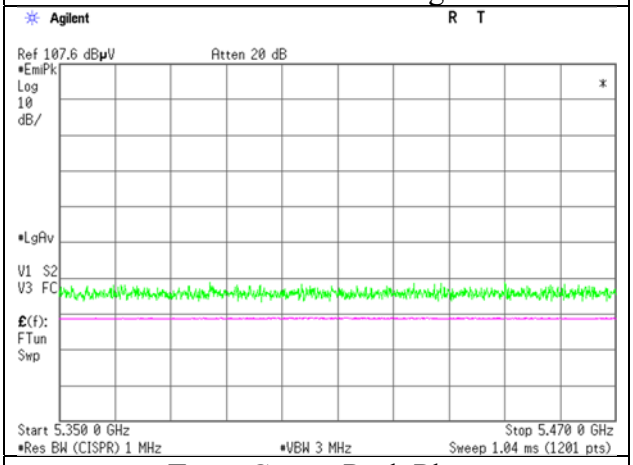
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 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	40.5	31.7	6.0	31.9	-	46.3	68.2	21.9	
Hori.	5470.000	PK	40.5	31.7	6.0	31.9	-	46.4	68.2	21.9	
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	40.5	31.7	6.0	31.9	-	46.3	68.2	21.9	
Vert.	5470.000	PK	40.7	31.7	6.0	31.9	-	46.5	68.2	21.7	
Vert.	5460.000	AV	32.6	31.7	6.0	31.9	0.2	38.7	53.9	15.2	*1)

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

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

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

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

Radiated Spurious Emission

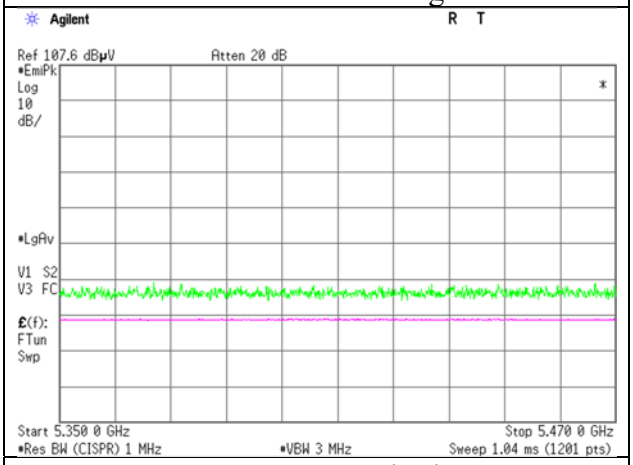
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (242-tone RU)

RU Index 61

Horizontal

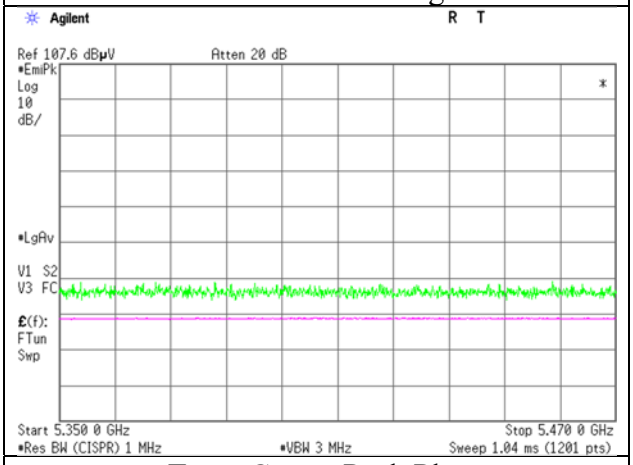
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 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	52.5	31.7	6.1	31.7	-	58.5	68.2	9.7	
Hori.	5470.000	PK	55.8	31.7	6.1	31.7	-	61.8	68.2	6.4	
Hori.	5460.000	AV	36.6	31.7	6.1	31.7	0.3	42.9	53.9	11.1	*1)
Vert.	5460.000	PK	47.0	31.7	6.1	31.7	-	53.0	68.2	15.2	
Vert.	5470.000	PK	49.7	31.7	6.1	31.7	-	55.8	68.2	12.4	
Vert.	5460.000	AV	34.2	31.7	6.1	31.7	0.3	40.5	53.9	13.4	*1)

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

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

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

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

Radiated Spurious Emission

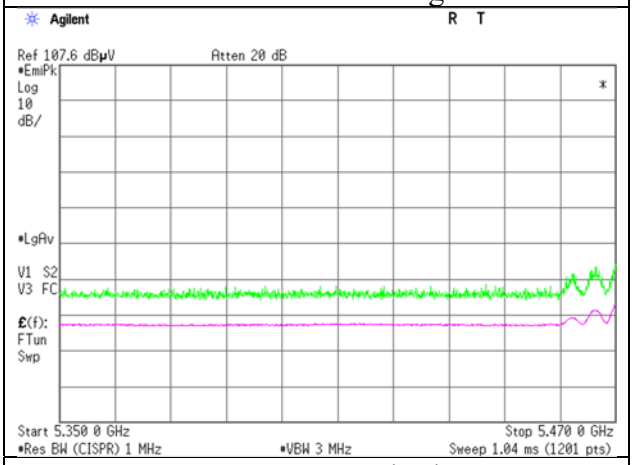
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (484-tone RU)

RU Index 65

Horizontal

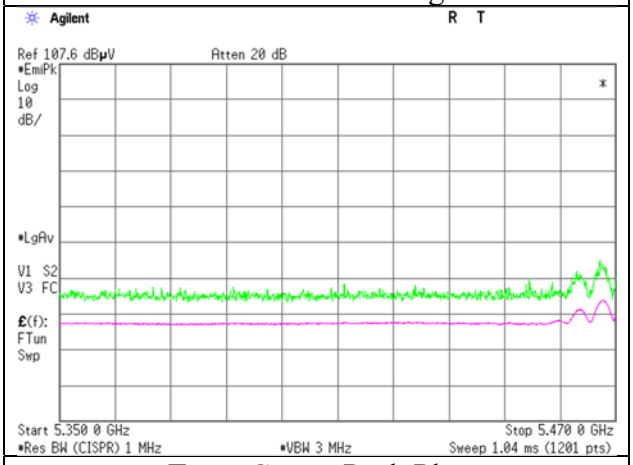
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (26-tone RU)

RU Index 17

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	41.2	32.0	6.1	31.9	-	47.4	68.2	20.8	
Vert.	5725.000	PK	40.1	32.0	6.1	31.9	-	46.3	68.2	21.9	

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

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

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

Radiated Spurious Emission

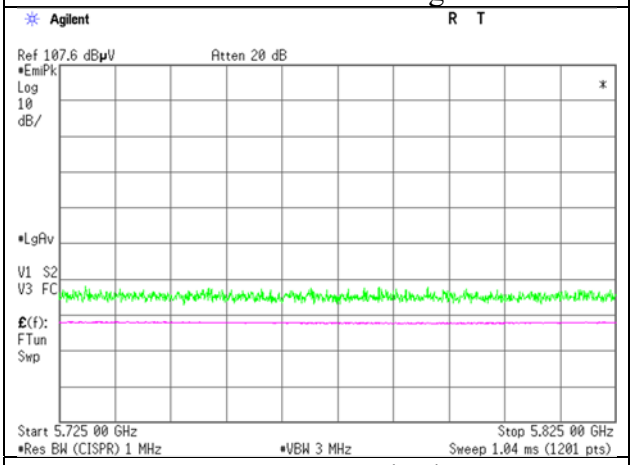
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (26-tone RU)

RU Index 17

Horizontal

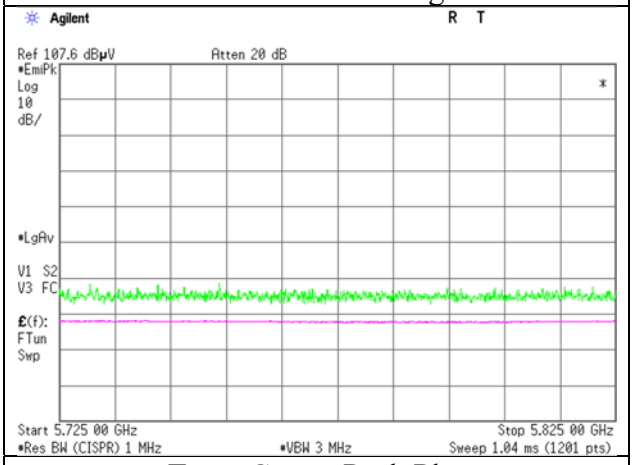
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (52-tone RU)

RU Index 44

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	41.2	32.0	6.1	31.9	-	47.4	68.2	20.8	
Vert.	5725.000	PK	41.2	32.0	6.1	31.9	-	47.3	68.2	20.9	

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

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

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

Radiated Spurious Emission

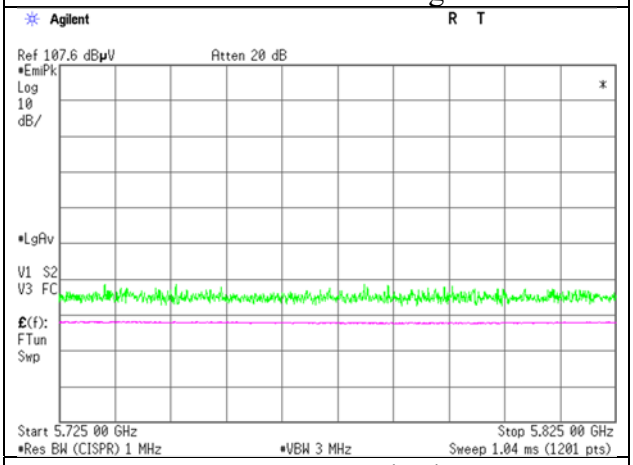
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (52-tone RU)

RU Index 44

Horizontal

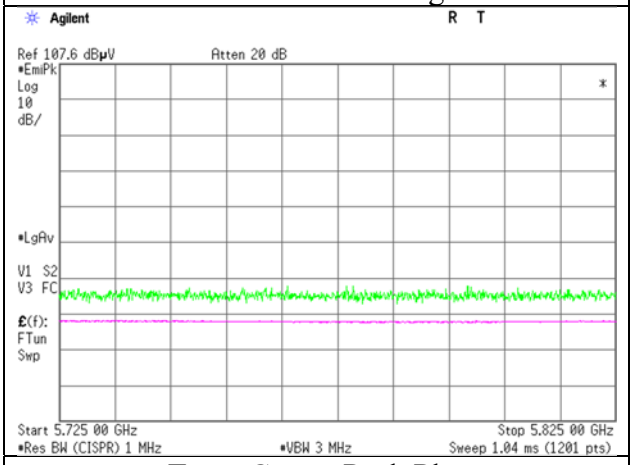
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (106-tone RU)

RU Index 56

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	41.3	32.0	6.1	31.9	-	47.4	68.2	20.8	
Vert.	5725.000	PK	41.2	32.0	6.1	31.9	-	47.4	68.2	20.8	

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 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission

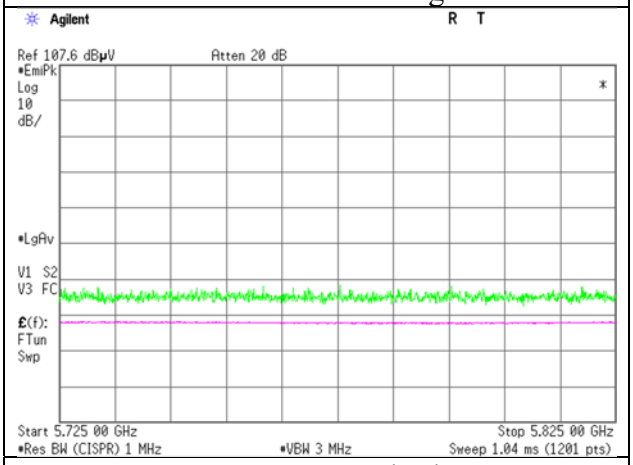
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (106-tone RU)

RU Index 56

Horizontal

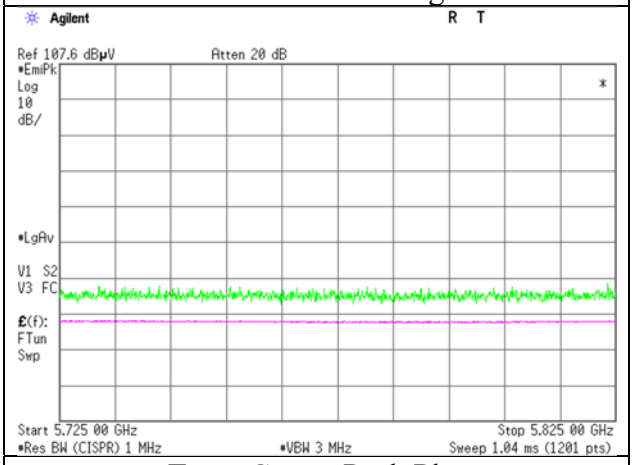
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (242-tone RU)

RU Index 62

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	41.4	32.0	6.1	31.9	-	47.5	68.2	20.7	
Vert.	5725.000	PK	41.2	32.0	6.1	31.9	-	47.4	68.2	20.8	

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 20log (3.9 m / 3.0 m) = 2.28 dB

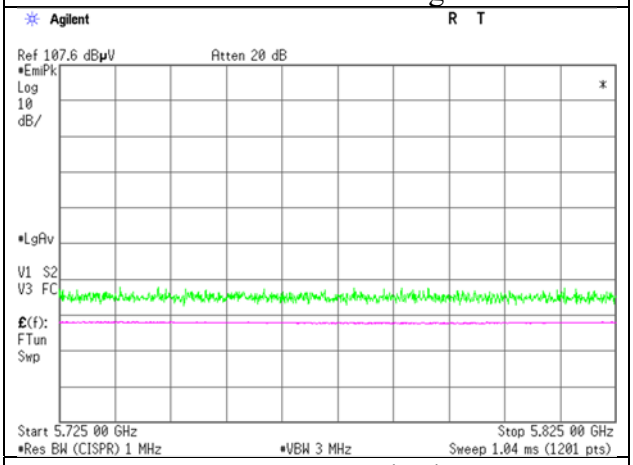
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (242-tone RU)

RU Index 62

Horizontal

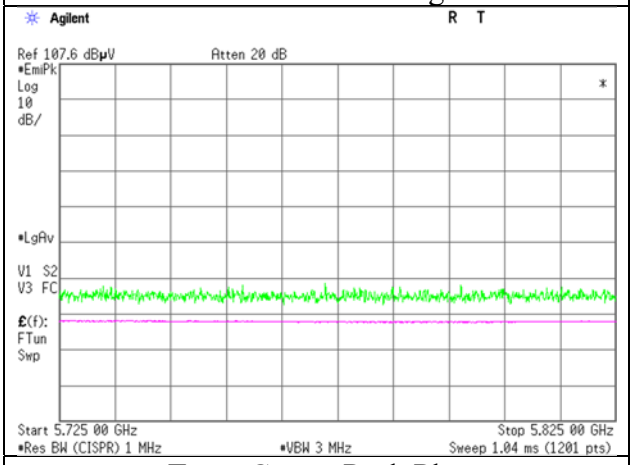
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 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.	5725.000	PK	49.2	32.0	6.2	31.8	-	55.6	68.2	12.6	
Vert.	5725.000	PK	52.3	32.0	6.2	31.8	-	58.7	68.2	9.5	

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 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission

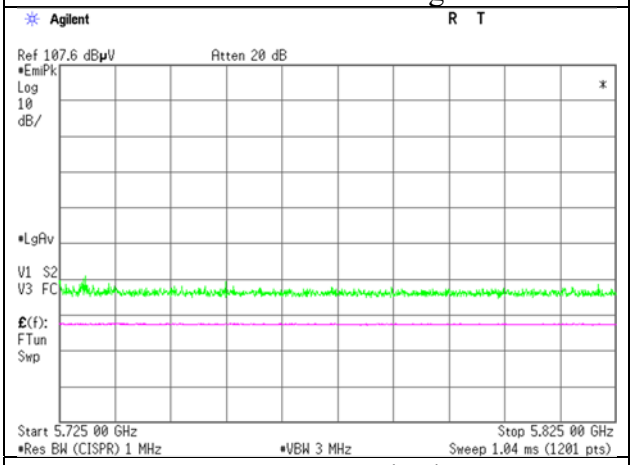
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (484-tone RU)

RU Index 65

Horizontal

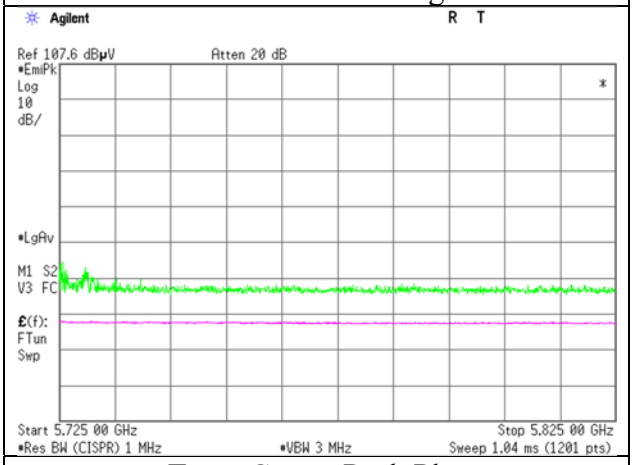
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 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	41.3	31.8	6.1	31.9	-	47.2	68.2	21.0	
Hori.	5700.000	PK	41.3	31.9	6.1	31.9	-	47.4	105.2	57.8	
Hori.	5720.000	PK	41.5	32.0	6.1	31.9	-	47.7	110.8	63.1	
Hori.	5725.000	PK	41.7	32.0	6.1	31.9	-	47.8	122.2	74.4	
Vert.	5650.000	PK	41.3	31.8	6.1	31.9	-	47.3	68.2	20.9	
Vert.	5700.000	PK	41.4	31.9	6.1	31.9	-	47.5	105.2	57.7	
Vert.	5720.000	PK	41.7	32.0	6.1	31.9	-	47.8	110.8	63.0	
Vert.	5725.000	PK	41.8	32.0	6.1	31.9	-	47.9	122.2	74.3	

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 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission

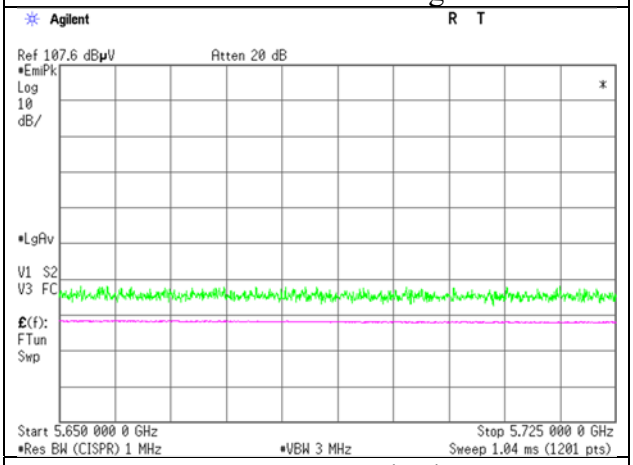
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (26-tone RU)

RU Index 0

Horizontal

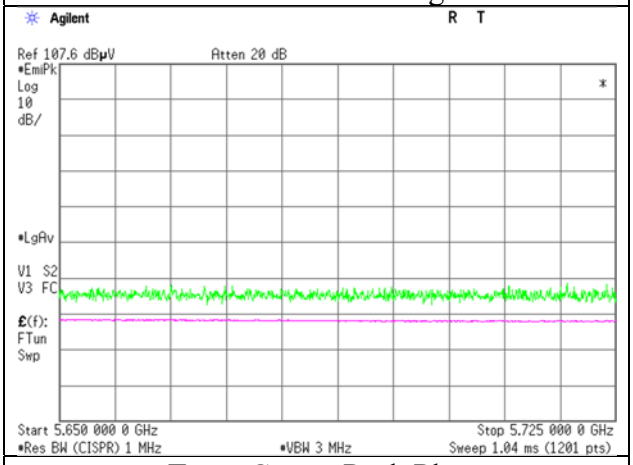
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (52-tone RU)

RU Index 37

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	40.4	31.8	6.1	31.9	-	46.3	68.2	21.9	
Hori.	5700.000	PK	40.7	31.9	6.1	31.9	-	46.8	105.2	58.4	
Hori.	5720.000	PK	40.8	32.0	6.1	31.9	-	46.9	110.8	63.9	
Hori.	5725.000	PK	41.9	32.0	6.1	31.9	-	48.1	122.2	74.1	
Vert.	5650.000	PK	40.4	31.8	6.1	31.9	-	46.4	68.2	21.8	
Vert.	5700.000	PK	40.4	31.9	6.1	31.9	-	46.5	105.2	58.7	
Vert.	5720.000	PK	40.6	32.0	6.1	31.9	-	46.7	110.8	64.1	
Vert.	5725.000	PK	43.0	32.0	6.1	31.9	-	49.1	122.2	73.1	

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

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

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

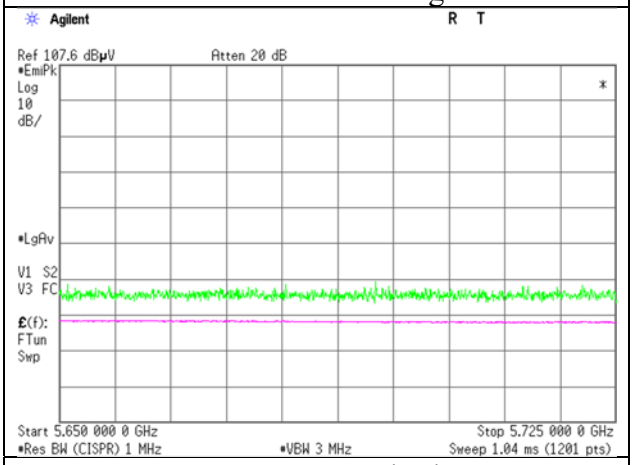
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (52-tone RU)

RU Index 37

Horizontal

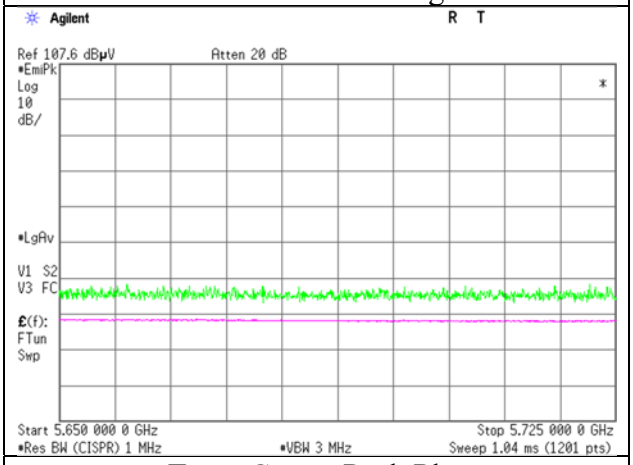
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (106-tone RU)

RU Index 53

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	40.8	31.8	6.1	31.9	-	46.8	68.2	21.4	
Hori.	5700.000	PK	40.4	31.9	6.1	31.9	-	46.5	105.2	58.7	
Hori.	5720.000	PK	41.2	32.0	6.1	31.9	-	47.3	110.8	63.5	
Hori.	5725.000	PK	43.2	32.0	6.1	31.9	-	49.3	122.2	72.9	
Vert.	5650.000	PK	40.7	31.8	6.1	31.9	-	46.7	68.2	21.5	
Vert.	5700.000	PK	40.9	31.9	6.1	31.9	-	47.0	105.2	58.2	
Vert.	5720.000	PK	41.9	32.0	6.1	31.9	-	48.0	110.8	62.8	
Vert.	5725.000	PK	44.4	32.0	6.1	31.9	-	50.6	122.2	71.6	

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

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

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

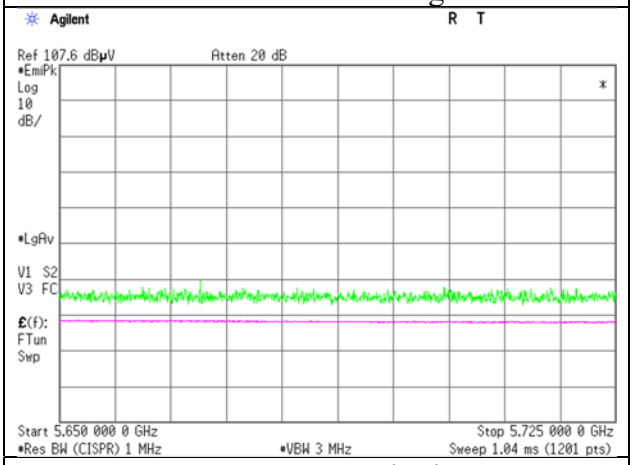
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (106-tone RU)

RU Index 53

Horizontal

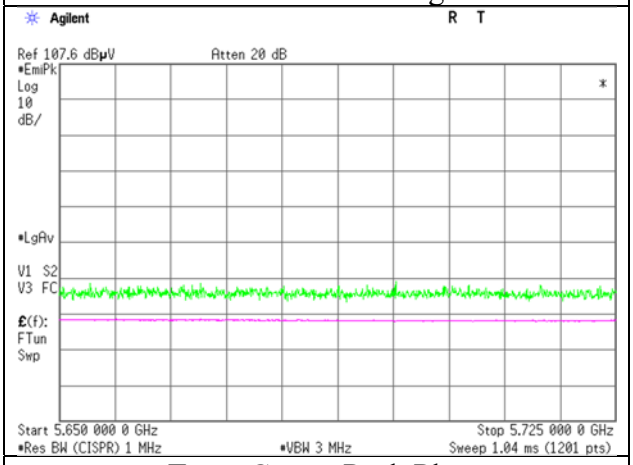
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 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	40.6	31.8	6.1	31.9	-	46.6	68.2	21.6	
Hori.	5700.000	PK	40.8	31.9	6.1	31.9	-	46.9	105.2	58.3	
Hori.	5720.000	PK	47.5	32.0	6.1	31.9	-	53.6	110.8	57.2	
Hori.	5725.000	PK	50.0	32.0	6.1	31.9	-	56.1	122.2	66.1	
Vert.	5650.000	PK	40.8	31.8	6.1	31.9	-	46.8	68.2	21.4	
Vert.	5700.000	PK	41.0	31.9	6.1	31.9	-	47.1	105.2	58.2	
Vert.	5720.000	PK	51.3	32.0	6.1	31.9	-	57.4	110.8	53.4	
Vert.	5725.000	PK	53.8	32.0	6.1	31.9	-	60.0	122.2	62.3	

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).

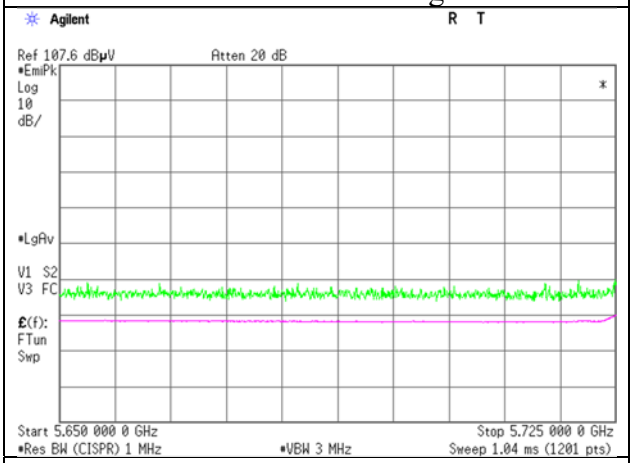
Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB

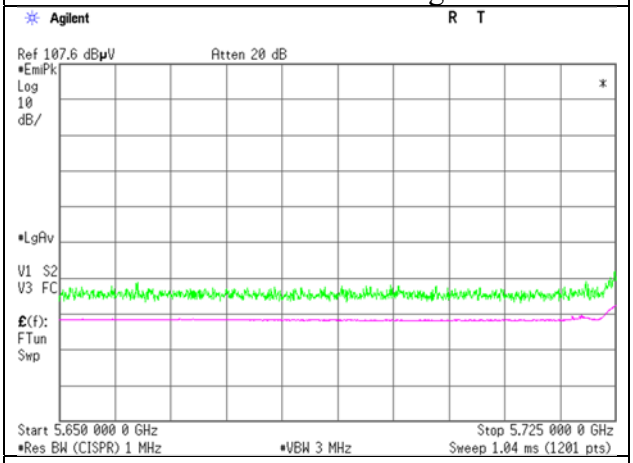
Radiated Spurious Emission

(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (242-tone RU)

RU Index 61

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 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	41.5	31.8	6.2	31.8	-	47.6	68.2	20.6	
Hori.	5700.000	PK	50.3	31.9	6.2	31.8	-	56.6	105.2	48.6	
Hori.	5720.000	PK	57.5	32.0	6.2	31.8	-	63.9	110.8	46.9	
Hori.	5725.000	PK	60.2	32.0	6.2	31.8	-	66.6	122.2	55.6	
Vert.	5650.000	PK	41.5	31.8	6.2	31.8	-	47.7	68.2	20.5	
Vert.	5700.000	PK	46.6	31.9	6.2	31.8	-	52.9	105.2	52.3	
Vert.	5720.000	PK	56.0	32.0	6.2	31.8	-	62.3	110.8	48.5	
Vert.	5725.000	PK	58.3	32.0	6.2	31.8	-	64.6	122.2	57.6	

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

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

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

Radiated Spurious Emission

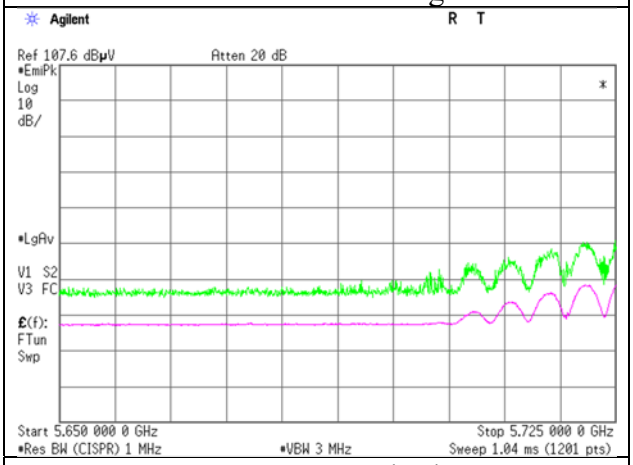
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (484-tone RU)

RU Index 65

Horizontal

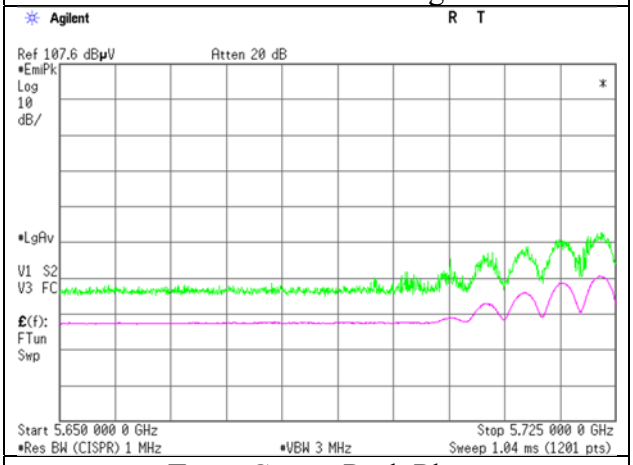
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (26-tone RU)

RU Index 17

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	40.5	32.2	6.1	31.9	-	47.0	122.2	75.2	
Hori.	5855.000	PK	40.4	32.2	6.1	31.9	-	46.8	110.8	64.0	
Hori.	5875.000	PK	40.3	32.3	6.2	31.9	-	46.8	105.2	58.5	
Hori.	5925.000	PK	40.1	32.3	6.2	31.9	-	46.6	68.2	21.6	
Vert.	5850.000	PK	40.4	32.2	6.1	31.9	-	46.9	122.2	75.3	
Vert.	5855.000	PK	40.4	32.2	6.1	31.9	-	46.9	110.8	63.9	
Vert.	5875.000	PK	40.3	32.3	6.2	31.9	-	46.8	105.2	58.4	
Vert.	5925.000	PK	40.1	32.3	6.2	31.9	-	46.6	68.2	21.6	

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

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

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

Radiated Spurious Emission

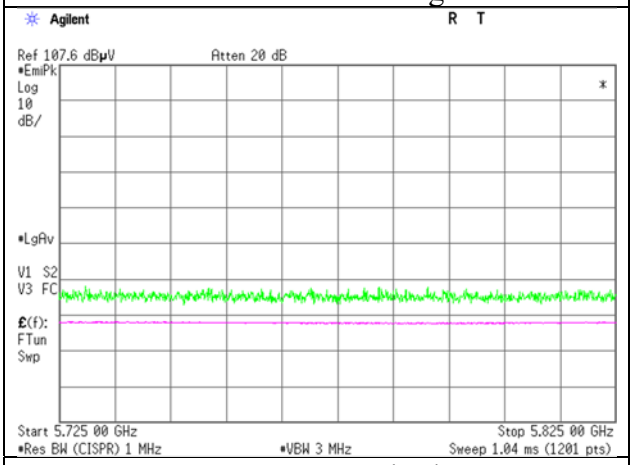
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (26-tone RU)

RU Index 17

Horizontal

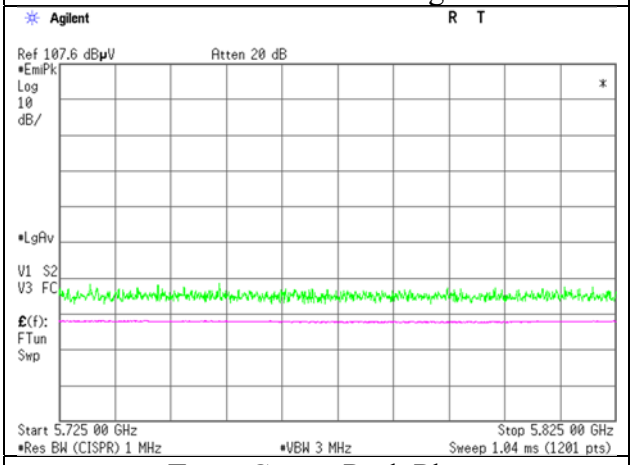
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (52-tone RU)

RU Index 44

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	40.7	32.2	6.1	31.9	-	47.2	122.2	75.0	
Hori.	5855.000	PK	40.4	32.2	6.1	31.9	-	46.9	110.8	63.9	
Hori.	5875.000	PK	40.3	32.3	6.2	31.9	-	46.8	105.2	58.4	
Hori.	5925.000	PK	40.2	32.3	6.2	31.9	-	46.7	68.2	21.5	
Vert.	5850.000	PK	40.5	32.2	6.1	31.9	-	47.0	122.2	75.2	
Vert.	5855.000	PK	40.4	32.2	6.1	31.9	-	46.9	110.8	63.9	
Vert.	5875.000	PK	40.4	32.3	6.2	31.9	-	46.8	105.2	58.4	
Vert.	5925.000	PK	40.2	32.3	6.2	31.9	-	46.7	68.2	21.5	

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 20log (3.9 m / 3.0 m) = 2.28 dB

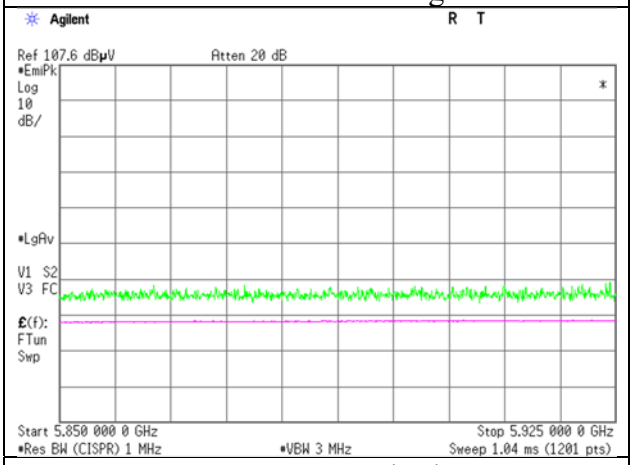
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (52-tone RU)

RU Index 44

Horizontal

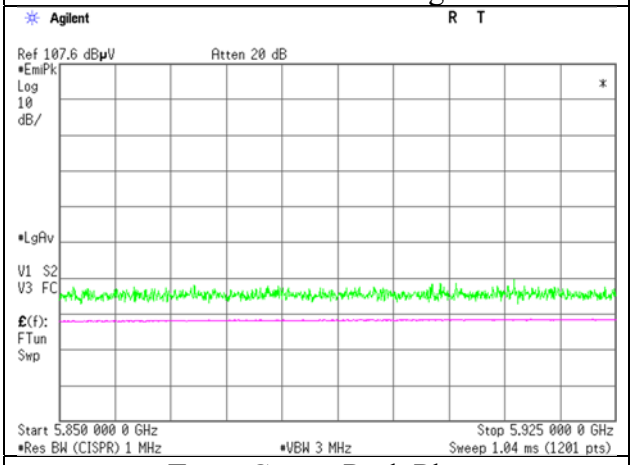
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (106-tone RU)

RU Index 56

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	40.4	32.2	6.1	31.9	-	46.9	122.2	75.3	
Hori.	5855.000	PK	40.4	32.2	6.1	31.9	-	46.8	110.8	64.0	
Hori.	5875.000	PK	40.7	32.3	6.2	31.9	-	47.1	105.2	58.1	
Hori.	5925.000	PK	40.5	32.3	6.2	31.9	-	47.0	68.2	21.2	
Vert.	5850.000	PK	40.6	32.2	6.1	31.9	-	47.0	122.2	75.2	
Vert.	5855.000	PK	40.3	32.2	6.1	31.9	-	46.8	110.8	64.0	
Vert.	5875.000	PK	40.6	32.3	6.2	31.9	-	47.0	105.2	58.2	
Vert.	5925.000	PK	40.7	32.3	6.2	31.9	-	47.2	68.2	21.0	

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

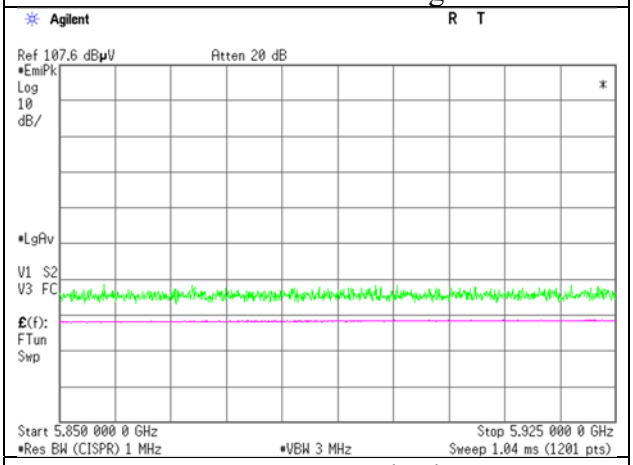
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

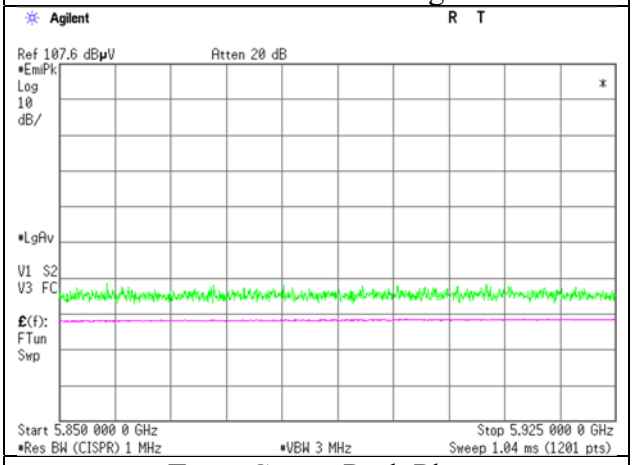
Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (106-tone RU)

RU Index 56

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (242-tone RU)

RU Index 62

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	40.9	32.2	6.1	31.9	-	47.3	122.2	74.9	
Hori.	5855.000	PK	40.4	32.2	6.1	31.9	-	46.8	110.8	64.0	
Hori.	5875.000	PK	40.5	32.3	6.2	31.9	-	47.0	105.2	58.2	
Hori.	5925.000	PK	40.2	32.3	6.2	31.9	-	46.7	68.2	21.5	
Vert.	5850.000	PK	40.9	32.2	6.1	31.9	-	47.4	122.2	74.8	
Vert.	5855.000	PK	40.5	32.2	6.1	31.9	-	46.9	110.8	63.9	
Vert.	5875.000	PK	40.5	32.3	6.2	31.9	-	46.9	105.2	58.3	
Vert.	5925.000	PK	40.2	32.3	6.2	31.9	-	46.7	68.2	21.5	

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 20log (3.9 m / 3.0 m) = 2.28 dB

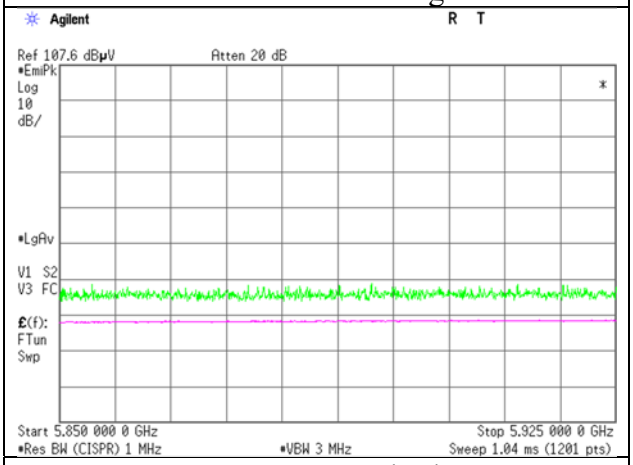
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 25, 2020
Temperature / Humidity	23 deg. C / 35 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (242-tone RU)

RU Index 62

Horizontal

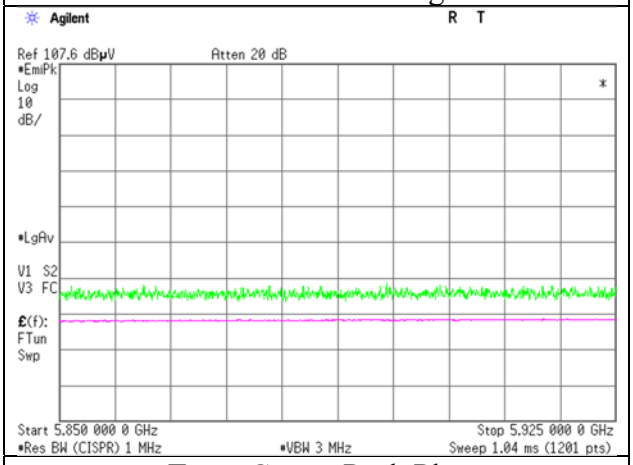
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 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.	5850.000	PK	46.2	32.2	6.2	31.8	-	52.9	122.2	69.3	
Hori.	5855.000	PK	44.6	32.2	6.2	31.8	-	51.3	110.8	59.5	
Hori.	5875.000	PK	42.2	32.3	6.3	31.8	-	48.9	105.2	56.3	
Hori.	5925.000	PK	41.2	32.3	6.3	31.9	-	47.9	68.2	20.3	
Vert.	5850.000	PK	48.0	32.2	6.2	31.8	-	54.6	122.2	67.6	
Vert.	5855.000	PK	46.6	32.2	6.2	31.8	-	53.2	110.8	57.6	
Vert.	5875.000	PK	42.0	32.3	6.3	31.8	-	48.6	105.2	56.6	
Vert.	5925.000	PK	41.3	32.3	6.3	31.9	-	48.0	68.2	20.2	

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 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission

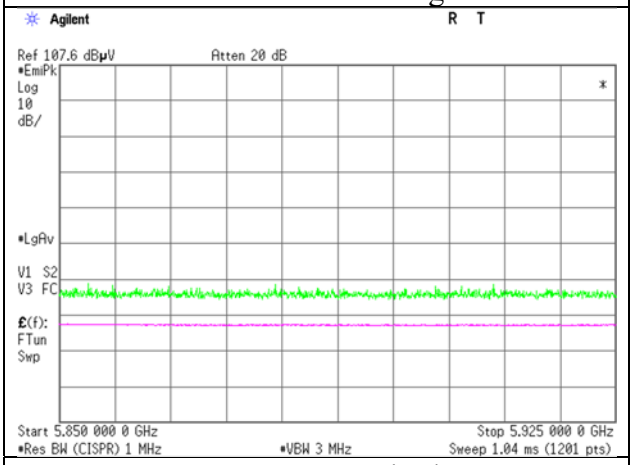
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (484-tone RU)

RU Index 65

Horizontal

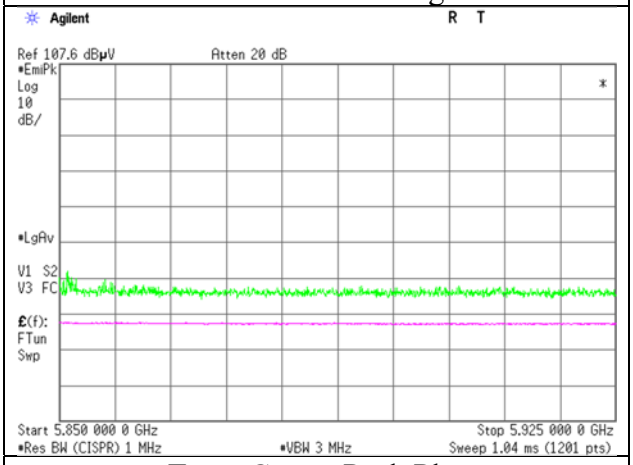
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (26-tone RU)

RU Index 0

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5150.000	PK	40.3	31.7	5.9	31.8	-	46.1	73.9	27.8	
Hori.	5150.000	AV	32.2	31.7	5.9	31.8	0.2	38.2	53.9	15.7	*1)
Vert.	5150.000	PK	40.3	31.7	5.9	31.8	-	46.1	73.9	27.8	
Vert.	5150.000	AV	32.2	31.7	5.9	31.8	0.2	38.2	53.9	15.7	*1)

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

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

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

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

Radiated Spurious Emission

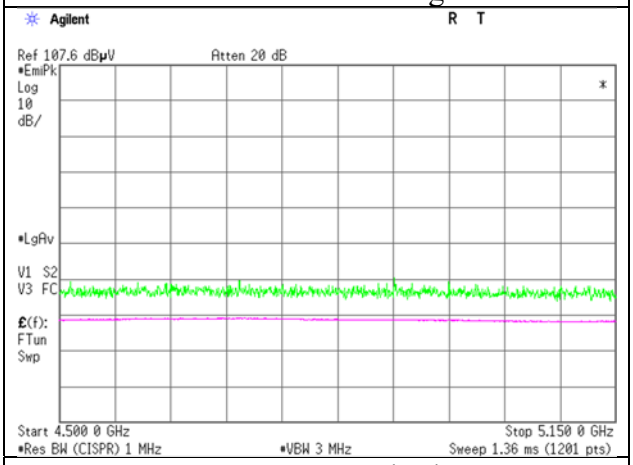
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (26-tone RU)

RU Index 0

Horizontal

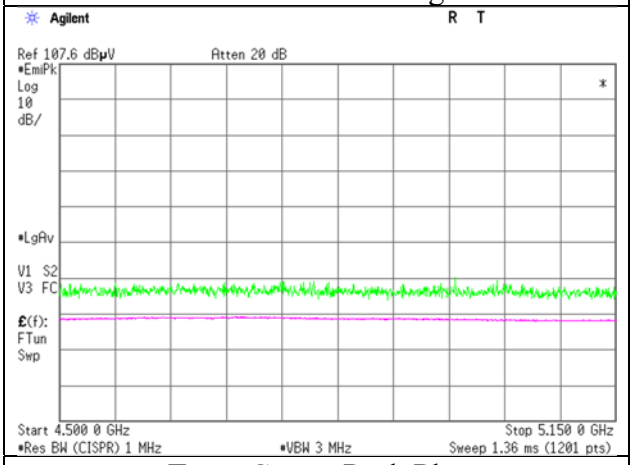
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (52-tone RU)

RU Index 37

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5150.000	PK	40.3	31.7	5.9	31.8	-	46.1	73.9	27.8	
Hori.	5150.000	AV	32.3	31.7	5.9	31.8	0.2	38.3	53.9	15.6	*1)
Vert.	5150.000	PK	40.5	31.7	5.9	31.8	-	46.3	73.9	27.6	
Vert.	5150.000	AV	32.4	31.7	5.9	31.8	0.2	38.4	53.9	15.5	*1)

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

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

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

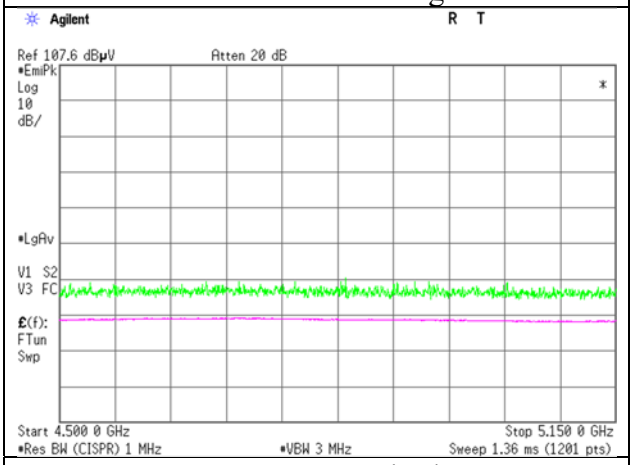
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (52-tone RU)

RU Index 37

Horizontal

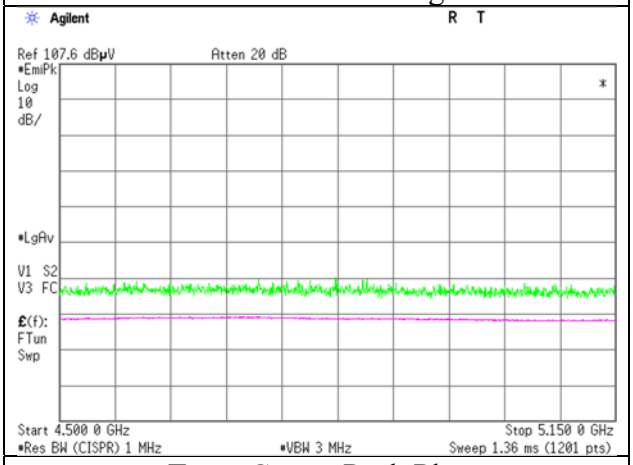
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (106-tone RU)

RU Index 53

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5150.000	PK	40.2	31.7	5.9	31.8	-	46.0	73.9	27.9	
Hori.	5150.000	AV	32.2	31.7	5.9	31.8	0.2	38.2	53.9	15.7	*1)
Vert.	5150.000	PK	40.6	31.7	5.9	31.8	-	46.4	73.9	27.5	
Vert.	5150.000	AV	32.2	31.7	5.9	31.8	0.2	38.2	53.9	15.7	*1)

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

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

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

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

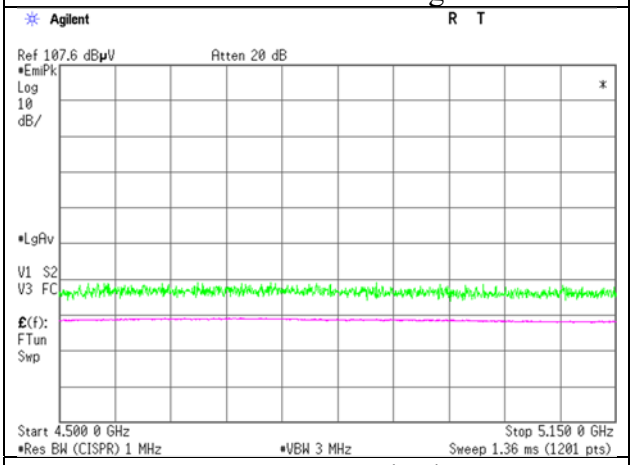
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (106-tone RU)

RU Index 53

Horizontal

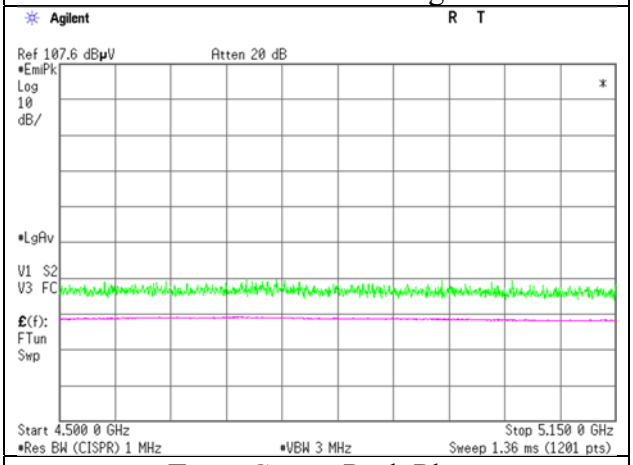
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (242-tone RU)

RU Index 61

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5150.000	PK	40.7	31.7	5.9	31.8	-	46.5	73.9	27.5	
Hori.	5150.000	AV	32.5	31.7	5.9	31.8	0.2	38.5	53.9	15.4	*1)
Vert.	5150.000	PK	40.3	31.7	5.9	31.8	-	46.1	73.9	27.8	
Vert.	5150.000	AV	32.3	31.7	5.9	31.8	0.2	38.4	53.9	15.5	*1)

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

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

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

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

Radiated Spurious Emission

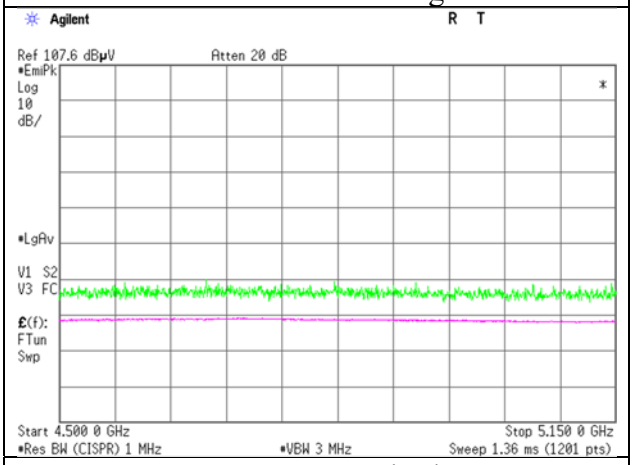
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (242-tone RU)

RU Index 61

Horizontal

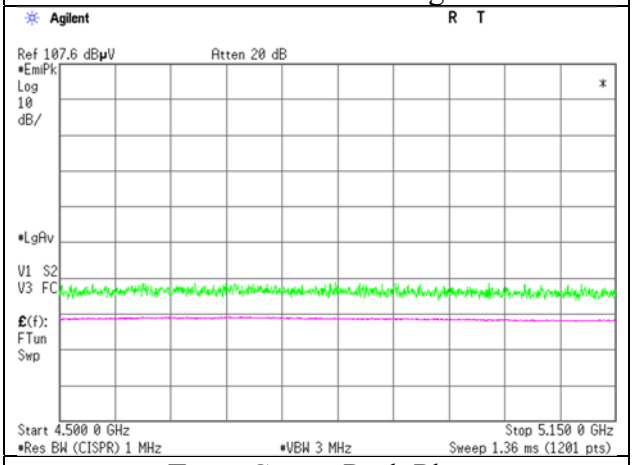
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (484-tone RU)

RU Index 65

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5150.000	PK	40.7	31.7	5.9	31.8	-	46.5	73.9	27.4	
Hori.	5150.000	AV	32.6	31.7	5.9	31.8	0.3	38.7	53.9	15.2	*1)
Vert.	5150.000	PK	40.2	31.7	5.9	31.8	-	46.0	73.9	27.9	
Vert.	5150.000	AV	32.3	31.7	5.9	31.8	0.3	38.3	53.9	15.6	*1)

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

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

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

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

Radiated Spurious Emission

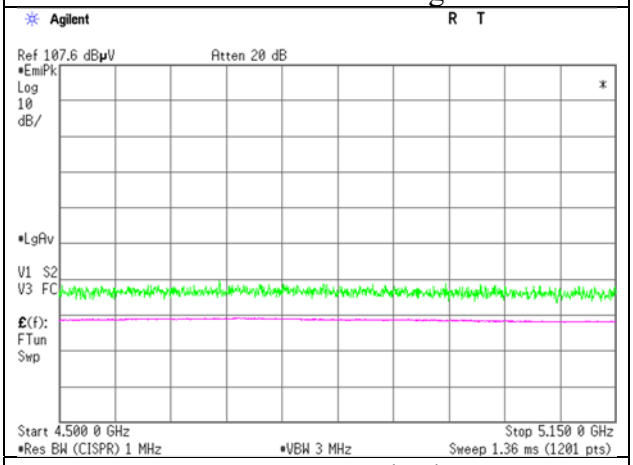
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (484-tone RU)

RU Index 65

Horizontal

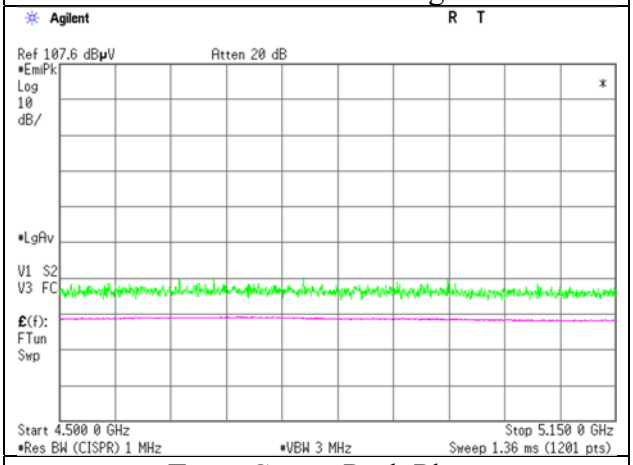
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 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.	5150.000	PK	52.1	31.7	6.0	31.6	-	58.2	73.9	15.7	
Hori.	5150.000	AV	37.4	31.7	6.0	31.6	0.3	43.7	53.9	10.2	*1)
Vert.	5150.000	PK	52.2	31.7	6.0	31.6	-	58.3	73.9	15.6	
Vert.	5150.000	AV	40.7	31.7	6.0	31.6	0.3	47.0	53.9	6.9	*1)

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

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

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

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

Radiated Spurious Emission

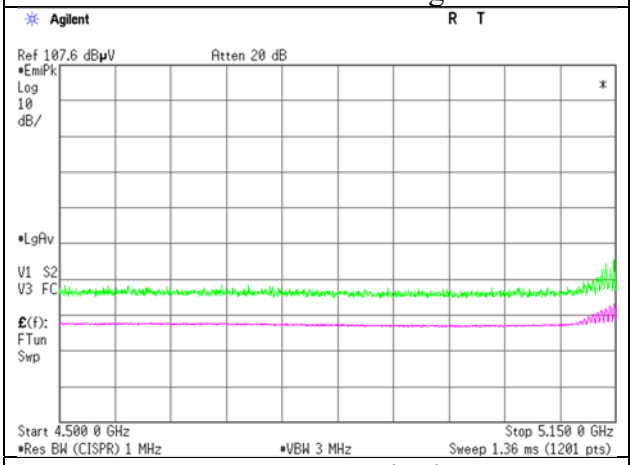
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (996-tone RU)

RU Index 67

Horizontal

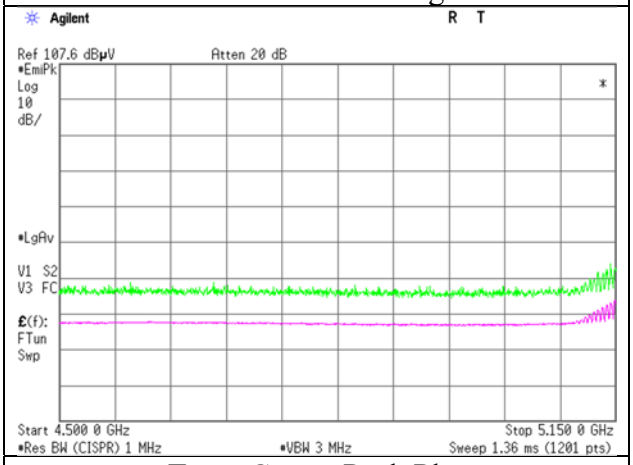
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 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.	5350.000	PK	41.1	31.5	6.0	31.8	-	46.7	73.9	27.2	
Hori.	5350.000	AV	32.8	31.5	6.0	31.8	2.2	40.5	53.9	13.4	*1)
Vert.	5350.000	PK	41.3	31.5	6.0	31.8	-	46.9	73.9	27.0	
Vert.	5350.000	AV	32.9	31.5	6.0	31.8	2.2	40.7	53.9	13.2	*1)

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

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

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

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

Radiated Spurious Emission

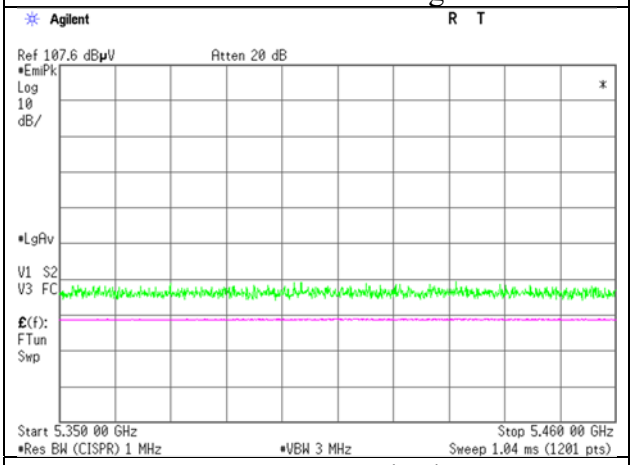
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (26-tone RU)

RU Index 36

Horizontal

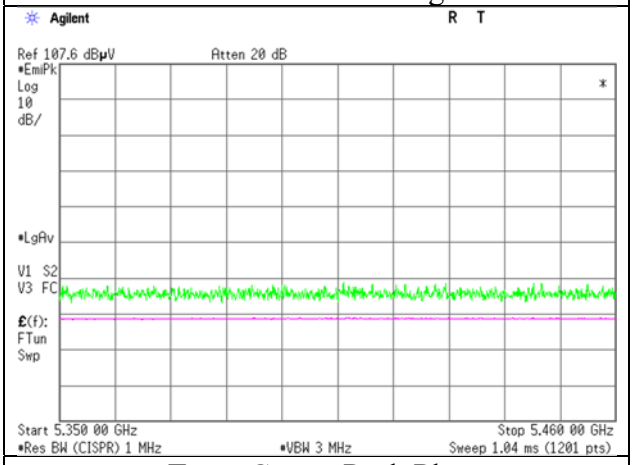
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 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.	5350.000	PK	41.1	31.5	6.0	31.8	-	46.7	73.9	27.2	
Hori.	5350.000	AV	32.3	31.5	6.0	31.8	2.2	40.1	53.9	13.8	*1)
Vert.	5350.000	PK	41.2	31.5	6.0	31.8	-	46.7	73.9	27.2	
Vert.	5350.000	AV	32.9	31.5	6.0	31.8	2.2	40.6	53.9	13.3	*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 20log (3.9 m / 3.0 m) = 2.28 dB

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

Radiated Spurious Emission

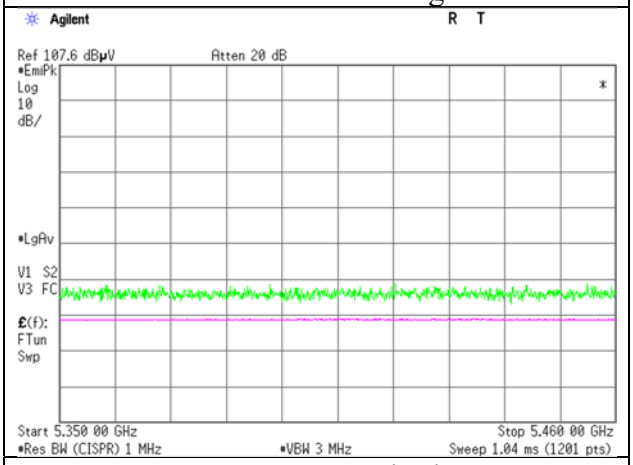
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (52-tone RU)

RU Index 52

Horizontal

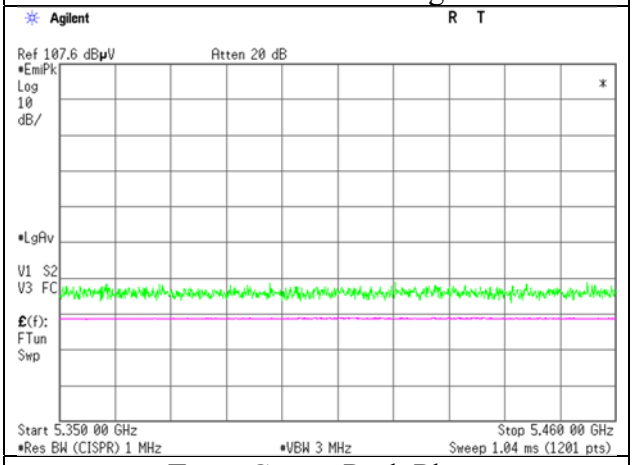
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 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.	5350.000	PK	41.5	31.5	6.0	31.8	-	47.0	73.9	26.9	
Hori.	5350.000	AV	32.2	31.5	6.0	31.8	2.5	40.3	53.9	13.6	*1)
Vert.	5350.000	PK	41.3	31.5	6.0	31.8	-	46.9	73.9	27.0	
Vert.	5350.000	AV	32.8	31.5	6.0	31.8	2.5	40.8	53.9	13.1	*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 20log (3.9 m / 3.0 m) = 2.28 dB

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

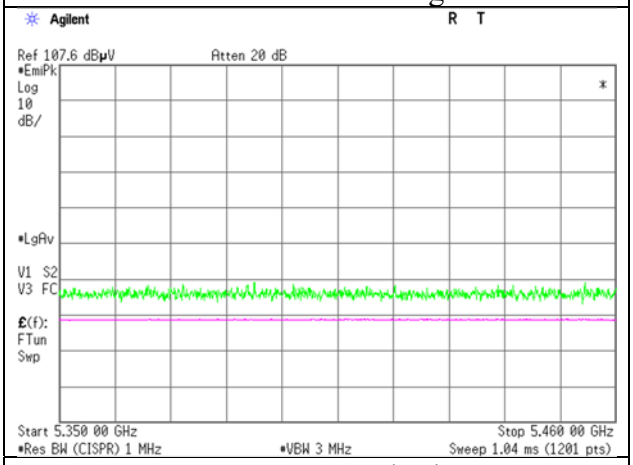
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (106-tone RU)

RU Index 60

Horizontal

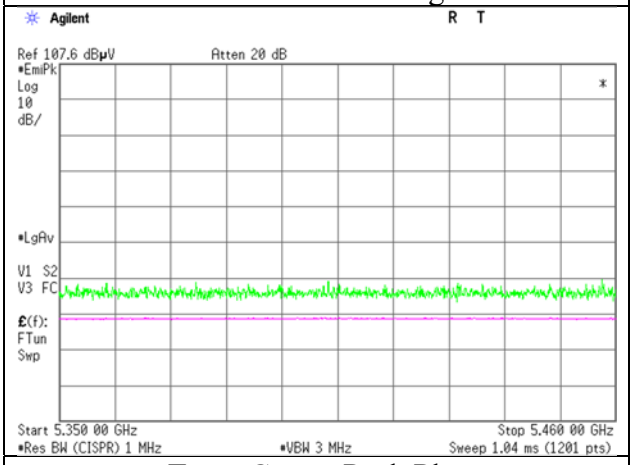
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 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.	5350.000	PK	41.7	31.5	6.0	31.8	-	47.2	73.9	26.7	
Hori.	5350.000	AV	32.9	31.5	6.0	31.8	3.0	41.5	53.9	12.4	*1)
Vert.	5350.000	PK	41.6	31.5	6.0	31.8	-	47.1	73.9	26.8	
Vert.	5350.000	AV	33.5	31.5	6.0	31.8	3.0	42.1	53.9	11.8	*1)

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

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

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

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

Radiated Spurious Emission

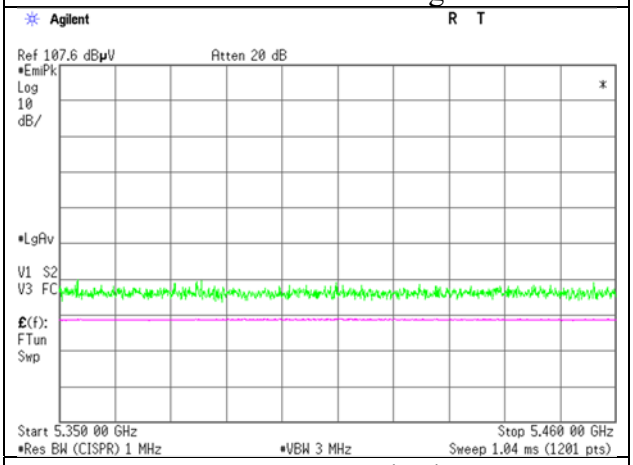
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (242-tone RU)

RU Index 64

Horizontal

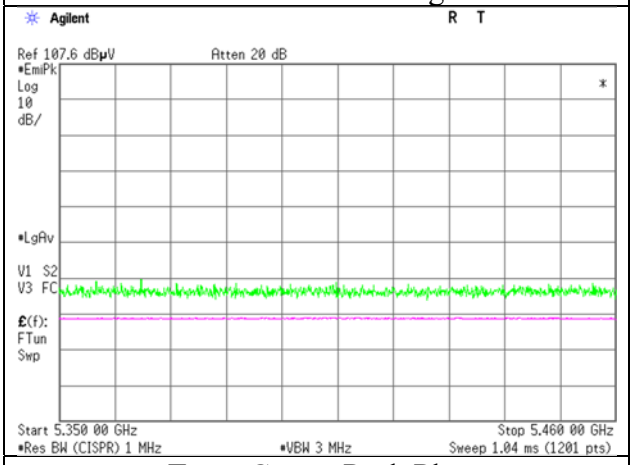
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 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.	5350.000	PK	48.5	31.5	6.0	31.8	-	54.1	73.9	19.9	
Hori.	5350.000	AV	36.6	31.5	6.0	31.8	0.3	42.4	53.9	11.5	*1)
Vert.	5350.000	PK	49.0	31.5	6.0	31.8	-	54.6	73.9	19.3	
Vert.	5350.000	AV	37.1	31.5	6.0	31.8	0.3	42.9	53.9	11.0	*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 20log (3.9 m / 3.0 m) = 2.28 dB

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

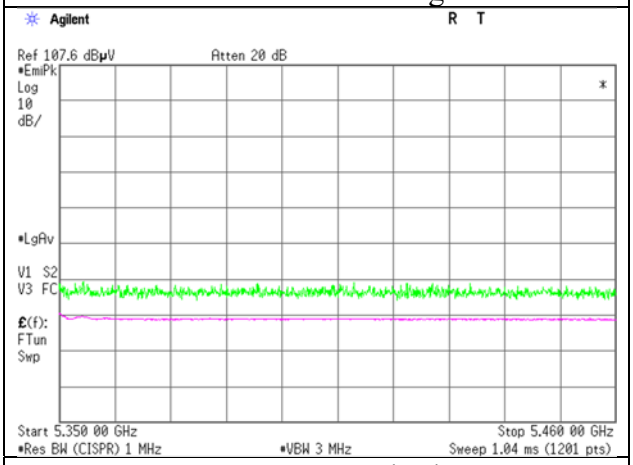
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (484-tone RU)

RU Index 64

Horizontal

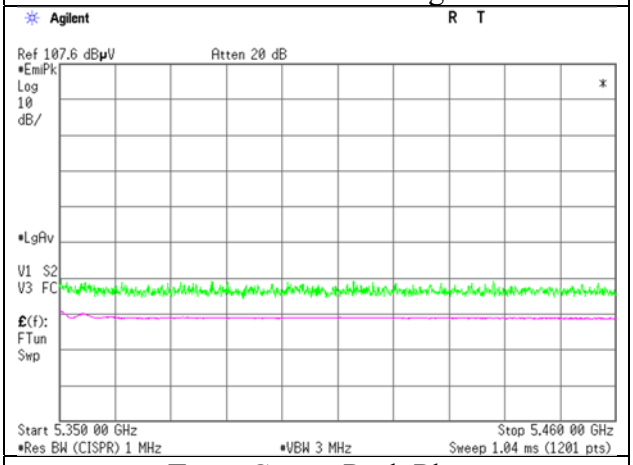
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 7, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 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.	5350.000	PK	53.0	31.5	6.1	31.7	-	58.8	73.9	15.1	
Hori.	5350.000	AV	44.9	31.5	6.1	31.7	0.3	51.0	53.9	2.9	*1)
Vert.	5350.000	PK	56.4	31.5	6.1	31.7	-	62.2	73.9	11.7	
Vert.	5350.000	AV	46.2	31.5	6.1	31.7	0.3	52.3	53.9	1.6	*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 20log (3.9 m / 3.0 m) = 2.28 dB

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

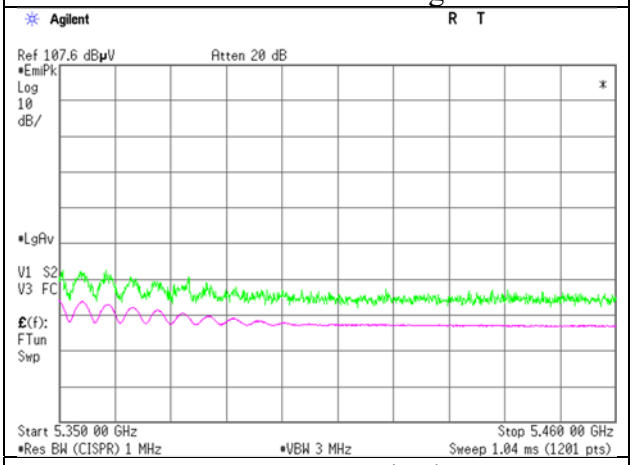
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 7, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (996-tone RU)

RU Index 67

Horizontal

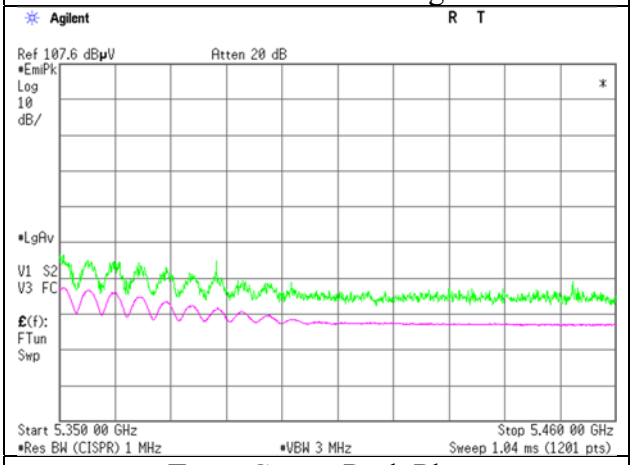
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	40.0	31.7	6.0	31.9	-	45.9	68.2	22.4	
Hori.	5470.000	PK	41.0	31.7	6.0	31.9	-	46.9	68.2	21.4	
Hori.	5460.000	AV	32.3	31.7	6.0	31.9	0.2	38.3	53.9	15.6	*1)
Vert.	5460.000	PK	40.2	31.7	6.0	31.9	-	46.0	68.2	22.2	
Vert.	5470.000	PK	41.1	31.7	6.0	31.9	-	46.9	68.2	21.3	
Vert.	5460.000	AV	32.5	31.7	6.0	31.9	0.2	38.5	53.9	15.4	*1)

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

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

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

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

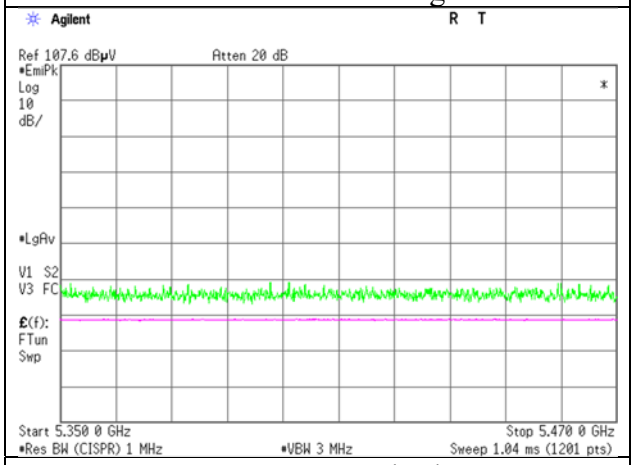
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5530 MHz (26-tone RU)

RU Index 0

Horizontal

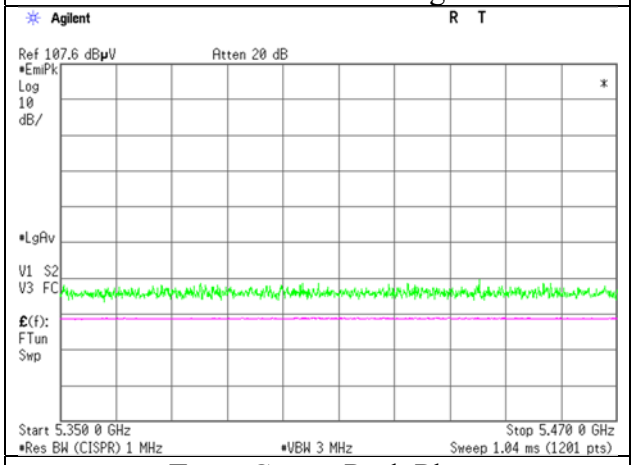
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	40.1	31.7	6.0	31.9	-	46.0	68.2	22.3	
Hori.	5470.000	PK	41.0	31.7	6.0	31.9	-	46.8	68.2	21.4	
Hori.	5460.000	AV	32.3	31.7	6.0	31.9	0.2	38.4	53.9	15.6	*1)
Vert.	5460.000	PK	40.3	31.7	6.0	31.9	-	46.1	68.2	22.1	
Vert.	5470.000	PK	41.1	31.7	6.0	31.9	-	46.9	68.2	21.3	
Vert.	5460.000	AV	32.7	31.7	6.0	31.9	0.2	38.7	53.9	15.2	*1)

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

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

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

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

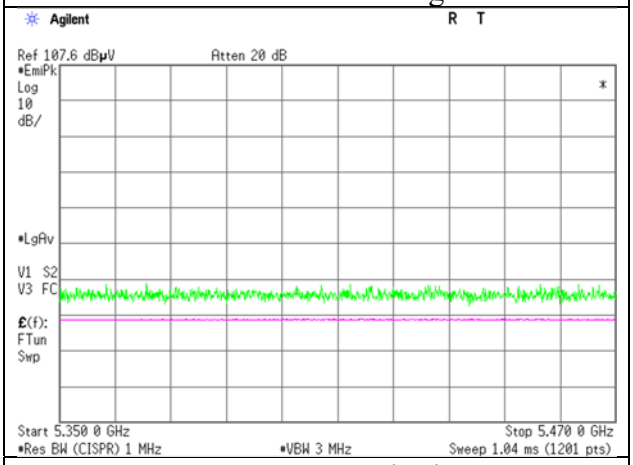
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5530 MHz (52-tone RU)

RU Index37

Horizontal

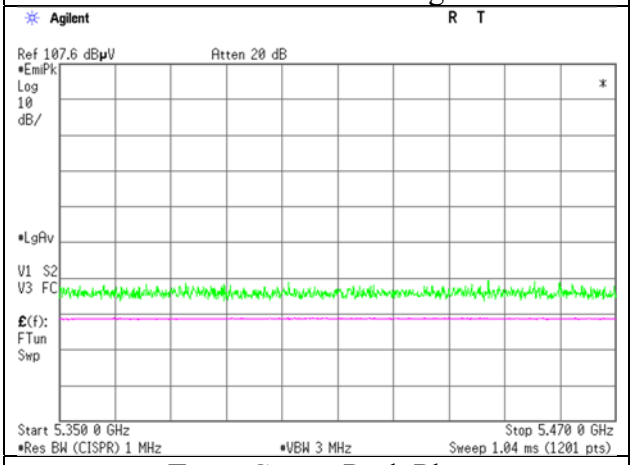
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	40.5	31.7	6.0	31.9	-	46.4	68.2	21.9	
Hori.	5470.000	PK	41.1	31.7	6.0	31.9	-	46.9	68.2	21.3	
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	40.8	31.7	6.0	31.9	-	46.7	68.2	21.5	
Vert.	5470.000	PK	41.1	31.7	6.0	31.9	-	46.9	68.2	21.3	
Vert.	5460.000	AV	32.7	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 20log (3.9 m / 3.0 m) = 2.28 dB

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

Radiated Spurious Emission

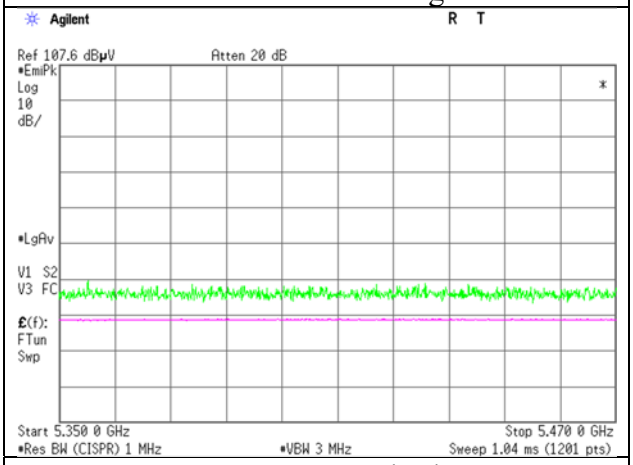
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5530 MHz (106-tone RU)

RU Index 53

Horizontal

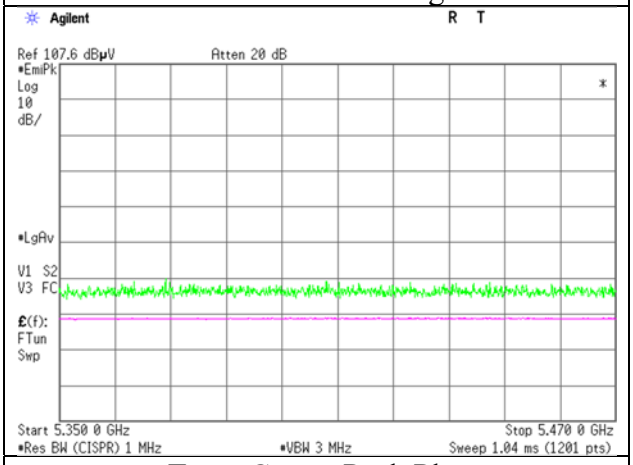
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	41.8	31.7	6.0	31.9	-	47.6	68.2	20.6	
Hori.	5470.000	PK	42.0	31.7	6.0	31.9	-	47.9	68.2	20.3	
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	41.7	31.7	6.0	31.9	-	47.5	68.2	20.7	
Vert.	5470.000	PK	41.9	31.7	6.0	31.9	-	47.8	68.2	20.4	
Vert.	5460.000	AV	32.8	31.7	6.0	31.9	0.2	38.9	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 20log (3.9 m / 3.0 m) = 2.28 dB

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

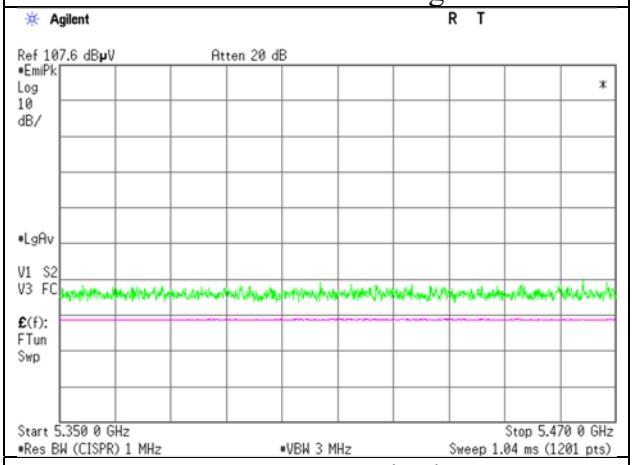
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5530 MHz (242-tone RU)

RU Index 61

Horizontal

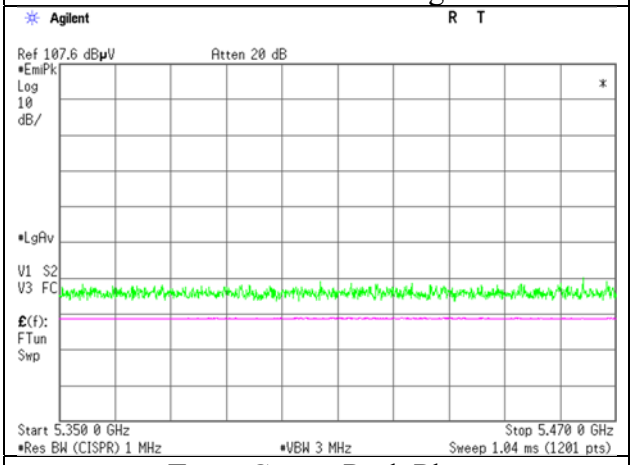
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	43.2	31.7	6.0	31.9	-	49.0	68.2	19.2	
Hori.	5470.000	PK	48.0	31.7	6.0	31.9	-	53.8	68.2	14.4	
Hori.	5460.000	AV	33.4	31.7	6.0	31.9	0.3	39.5	53.9	14.4	*1)
Vert.	5460.000	PK	44.7	31.7	6.0	31.9	-	50.6	68.2	17.6	
Vert.	5470.000	PK	48.4	31.7	6.0	31.9	-	54.2	68.2	14.0	
Vert.	5460.000	AV	34.4	31.7	6.0	31.9	0.3	40.5	53.9	13.4	*1)

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

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

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

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

Radiated Spurious Emission

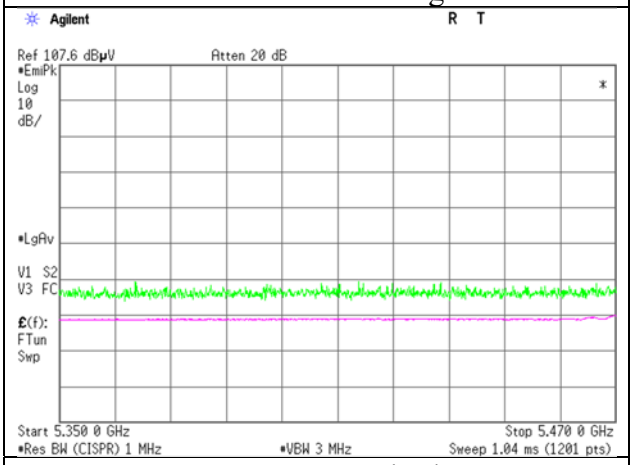
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5530 MHz (484-tone RU)

RU Index 65

Horizontal

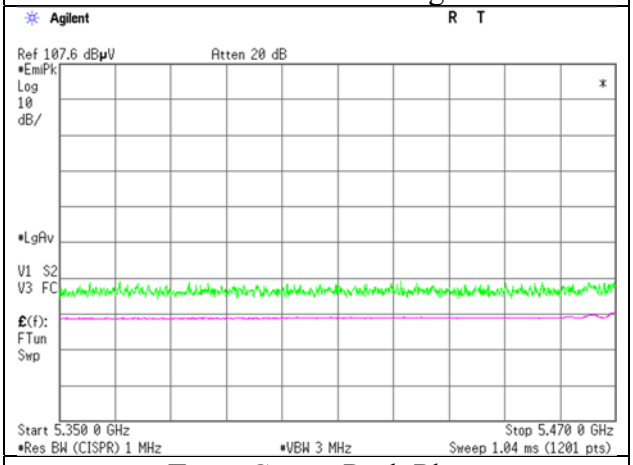
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 7, 2020
Temperature / Humidity	23 deg. C / 30 % 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	53.0	31.7	6.1	31.7	-	59.1	68.2	9.1	
Hori.	5470.000	PK	55.5	31.7	6.1	31.7	-	61.5	68.2	6.7	
Hori.	5460.000	AV	42.1	31.7	6.1	31.7	0.3	48.4	53.9	5.5	*1)
Vert.	5460.000	PK	56.6	31.7	6.1	31.7	-	62.6	68.2	5.6	
Vert.	5470.000	PK	58.0	31.7	6.1	31.7	-	64.0	68.2	4.2	
Vert.	5460.000	AV	45.6	31.7	6.1	31.7	0.3	51.9	53.9	2.0	*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 20log (3.9 m / 3.0 m) = 2.28 dB

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

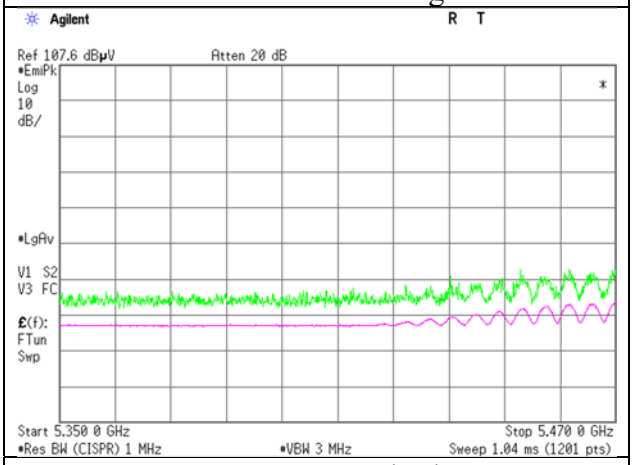
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 7, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5530 MHz (996-tone RU)

RU Index 67

Horizontal

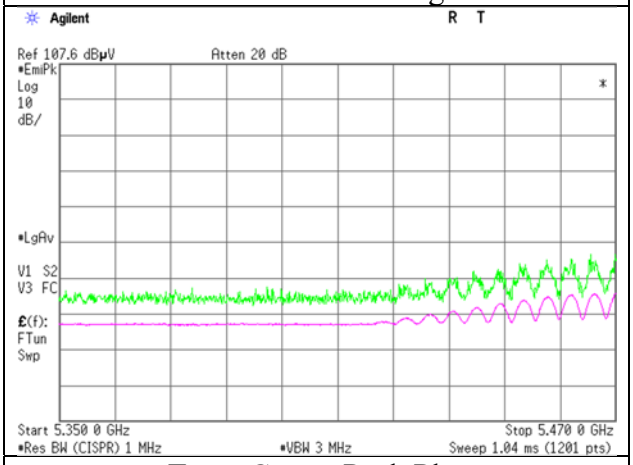
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	40.8	32.0	6.1	31.9	-	47.0	68.2	21.2	
Vert.	5725.000	PK	41.0	32.0	6.1	31.9	-	47.2	68.2	21.0	

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

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

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

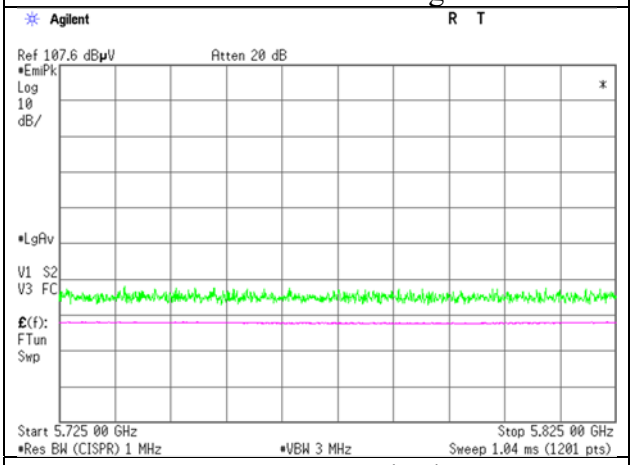
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5610 MHz (26-tone RU)

RU Index 36

Horizontal

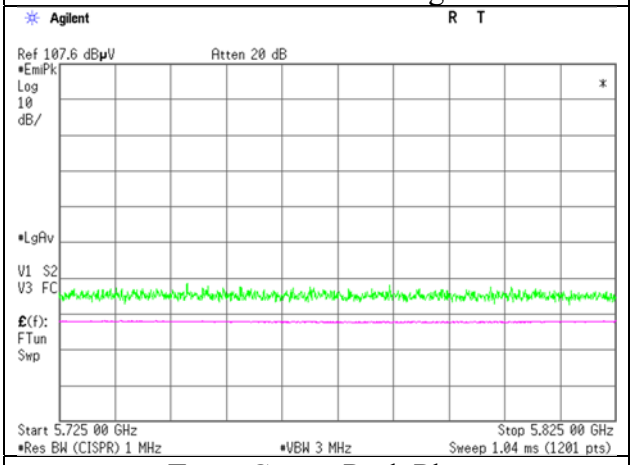
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	40.9	32.0	6.1	31.9	-	47.0	68.2	21.2	
Vert.	5725.000	PK	41.0	32.0	6.1	31.9	-	47.2	68.2	21.0	

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

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

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

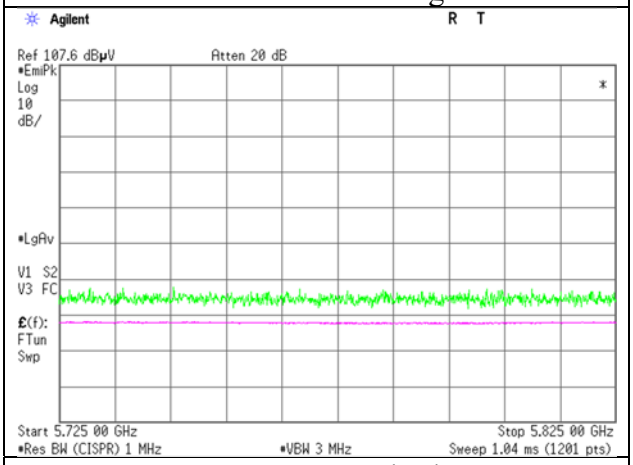
Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5610 MHz (52-tone RU)

RU Index 52

Horizontal

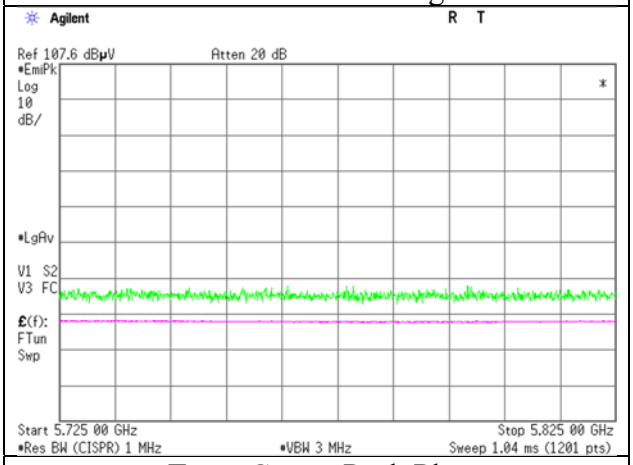
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	41.0	32.0	6.1	31.9	-	47.2	68.2	21.1	
Vert.	5725.000	PK	41.1	32.0	6.1	31.9	-	47.3	68.2	21.0	

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

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

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

Radiated Spurious Emission

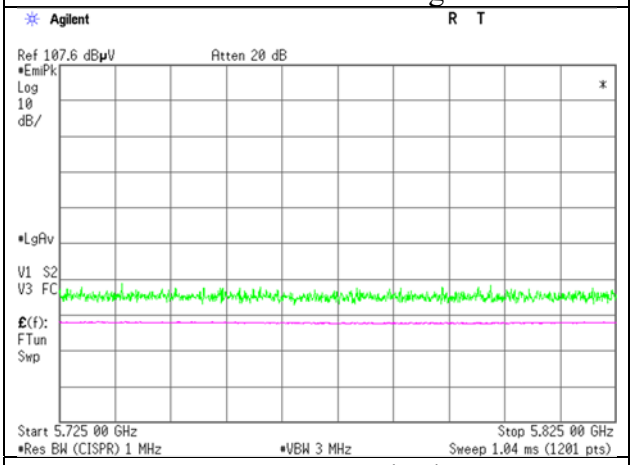
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5610 MHz (106-tone RU)

RU Index 60

Horizontal

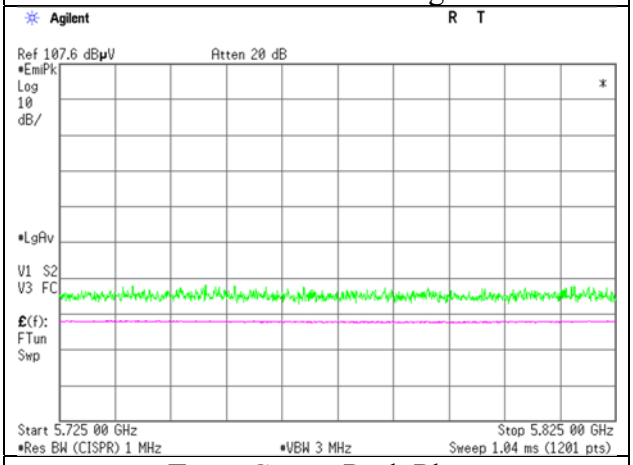
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	40.8	32.0	6.1	31.9	-	47.0	68.2	21.2	
Vert.	5725.000	PK	41.0	32.0	6.1	31.9	-	47.2	68.2	21.0	

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

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

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

Radiated Spurious Emission

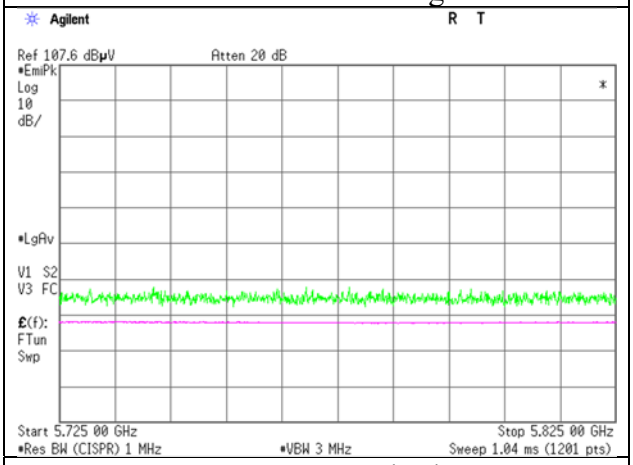
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % RH
Engineer	Yuta Moriya
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5610 MHz (242-tone RU)

RU Index 64

Horizontal

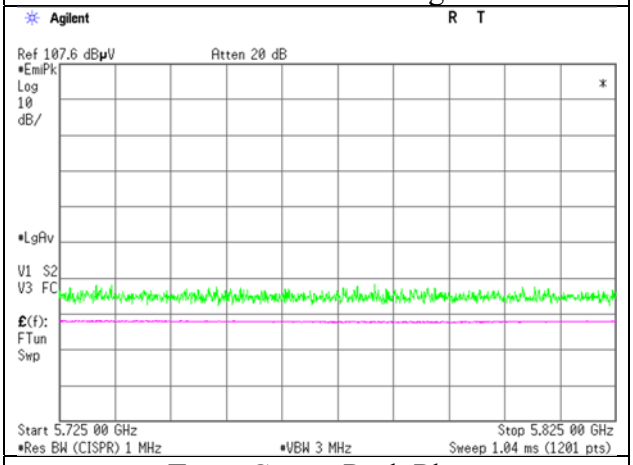
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 21, 2020
Temperature / Humidity	23 deg. C / 30 % 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	41.1	32.0	6.1	31.9	-	47.3	68.2	21.0	
Vert.	5725.000	PK	41.3	32.0	6.1	31.9	-	47.5	68.2	20.7	

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

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

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

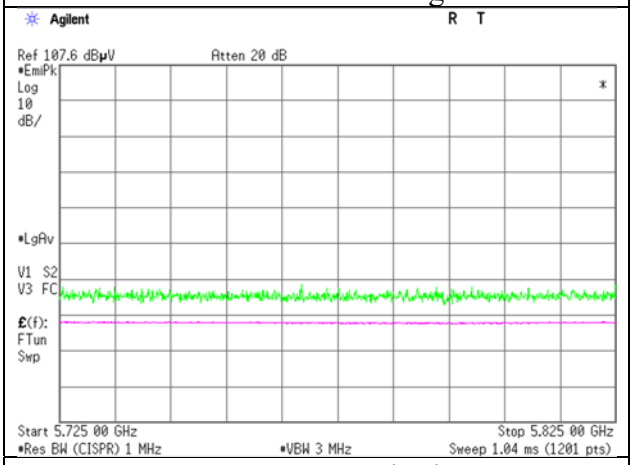
Radiated Spurious Emission
(PIFA Antenna)

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

Horizontal

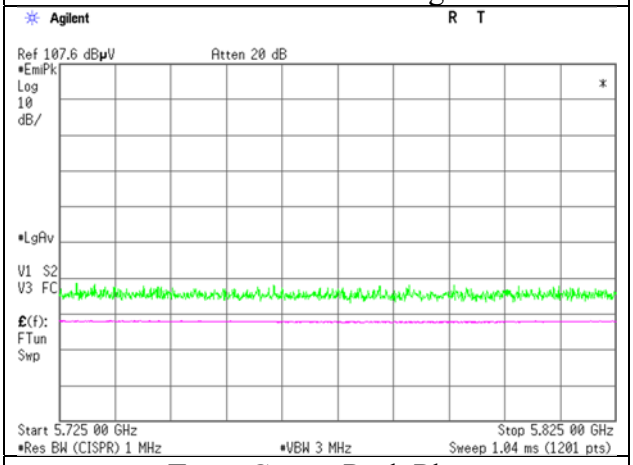
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(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	42.0	32.0	6.2	31.8	-	48.4	68.2	19.8	
Vert.	5725.000	PK	41.0	32.0	6.2	31.8	-	47.4	68.2	20.8	

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 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission

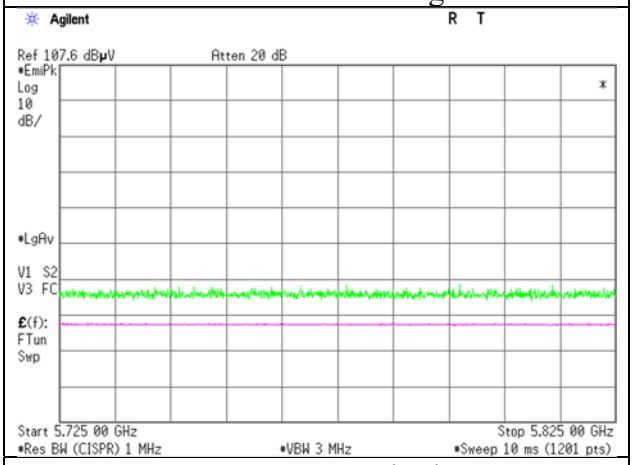
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5610 MHz (996-tone RU)

RU Index 67

Horizontal

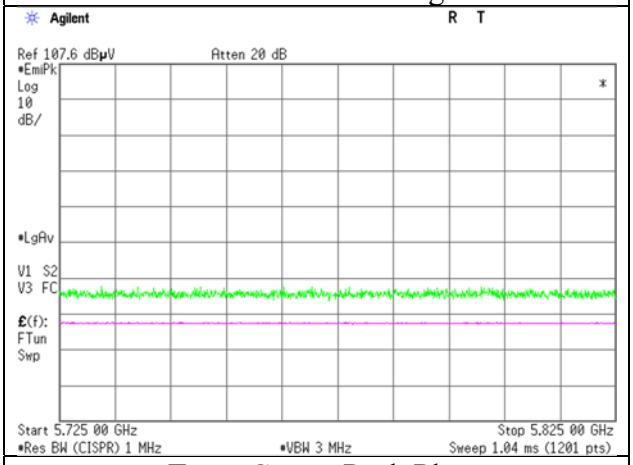
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	41.9	31.8	6.1	31.9	-	47.9	68.2	20.4	
Hori.	5700.000	PK	42.5	31.9	6.1	31.9	-	48.6	105.2	56.6	
Hori.	5720.000	PK	42.4	32.0	6.1	31.9	-	48.6	110.8	62.2	
Hori.	5725.000	PK	43.0	32.0	6.1	31.9	-	49.1	122.2	73.1	
Vert.	5650.000	PK	42.0	31.8	6.1	31.9	-	47.9	68.2	20.3	
Vert.	5700.000	PK	41.8	31.9	6.1	31.9	-	47.9	105.2	57.3	
Vert.	5720.000	PK	42.5	32.0	6.1	31.9	-	48.6	110.8	62.2	
Vert.	5725.000	PK	42.6	32.0	6.1	31.9	-	48.7	122.2	73.5	

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 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission

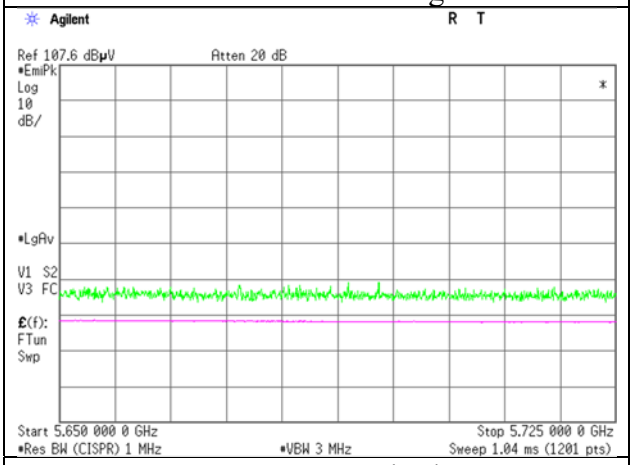
(PIFA Antenna)

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

Horizontal

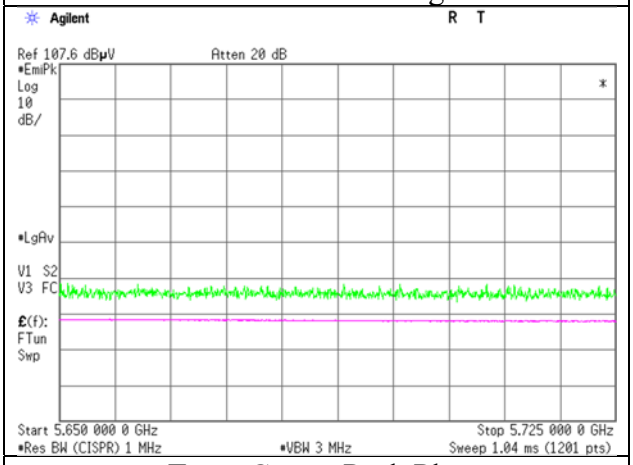
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	42.0	31.8	6.1	31.9	-	48.0	68.2	20.3	
Hori.	5700.000	PK	41.8	31.9	6.1	31.9	-	47.8	105.2	57.4	
Hori.	5720.000	PK	42.5	32.0	6.1	31.9	-	48.6	110.8	62.2	
Hori.	5725.000	PK	42.3	32.0	6.1	31.9	-	48.4	122.2	73.8	
Vert.	5650.000	PK	41.9	31.8	6.1	31.9	-	47.9	68.2	20.3	
Vert.	5700.000	PK	42.3	31.9	6.1	31.9	-	48.3	105.2	56.9	
Vert.	5720.000	PK	42.1	32.0	6.1	31.9	-	48.3	110.8	62.5	
Vert.	5725.000	PK	43.0	32.0	6.1	31.9	-	49.2	122.2	73.0	

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

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

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

Radiated Spurious Emission

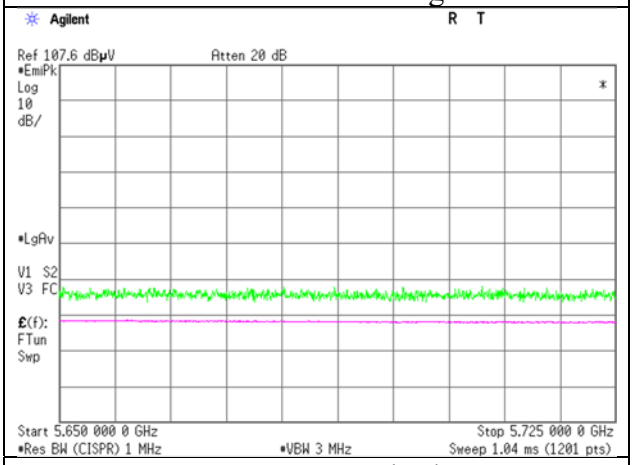
(PIFA Antenna)

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

Horizontal

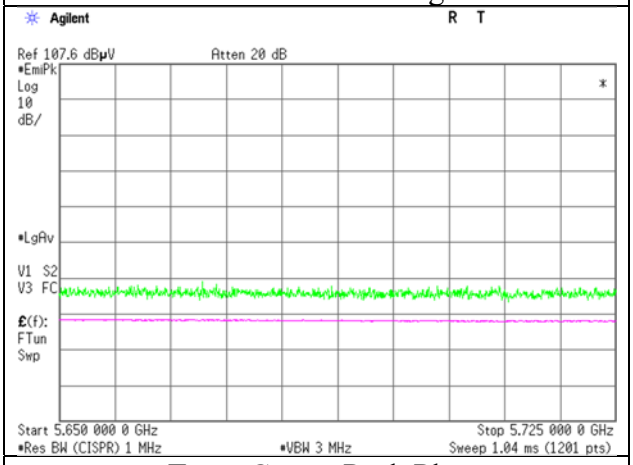
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	42.0	31.8	6.1	31.9	-	48.0	68.2	20.2	
Hori.	5700.000	PK	42.0	31.9	6.1	31.9	-	48.1	105.2	57.1	
Hori.	5720.000	PK	43.3	32.0	6.1	31.9	-	49.4	110.8	61.4	
Hori.	5725.000	PK	45.8	32.0	6.1	31.9	-	51.9	122.2	70.3	
Vert.	5650.000	PK	42.0	31.8	6.1	31.9	-	48.0	68.2	20.2	
Vert.	5700.000	PK	42.1	31.9	6.1	31.9	-	48.2	105.2	57.0	
Vert.	5720.000	PK	42.8	32.0	6.1	31.9	-	49.0	110.8	61.9	
Vert.	5725.000	PK	45.0	32.0	6.1	31.9	-	51.2	122.2	71.0	

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

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

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

Radiated Spurious Emission

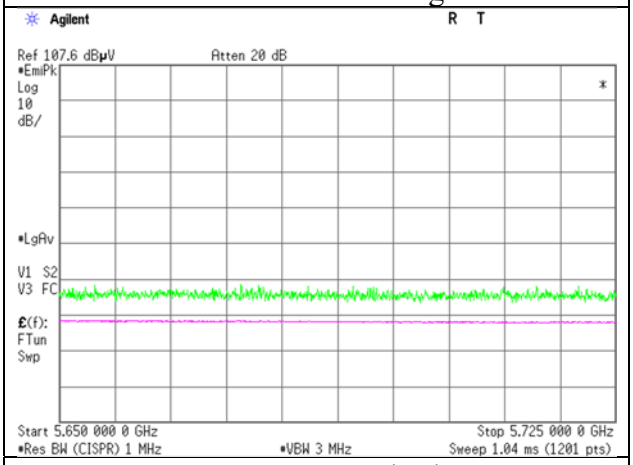
(PIFA Antenna)

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

Horizontal

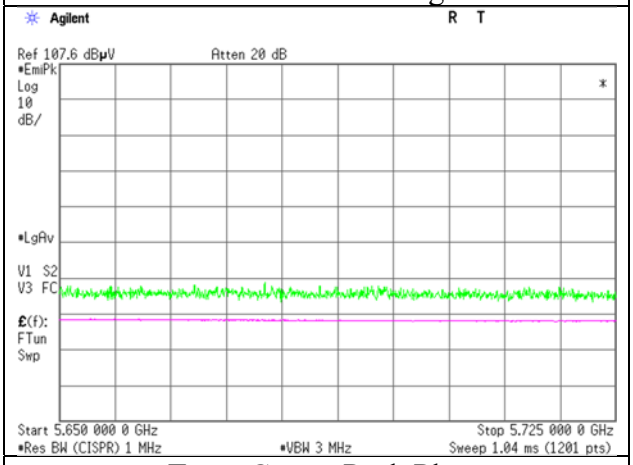
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	20.2	
Hori.	5700.000	PK	42.3	31.9	6.1	31.9	-	48.4	105.2	56.8	
Hori.	5720.000	PK	47.6	32.0	6.1	31.9	-	53.7	110.8	57.1	
Hori.	5725.000	PK	49.6	32.0	6.1	31.9	-	55.8	122.2	66.5	
Vert.	5650.000	PK	42.0	31.8	6.1	31.9	-	48.0	68.2	20.2	
Vert.	5700.000	PK	43.2	31.9	6.1	31.9	-	49.3	105.2	55.9	
Vert.	5720.000	PK	49.0	32.0	6.1	31.9	-	55.1	110.8	55.7	
Vert.	5725.000	PK	51.4	32.0	6.1	31.9	-	57.6	122.2	64.6	

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

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

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

Radiated Spurious Emission

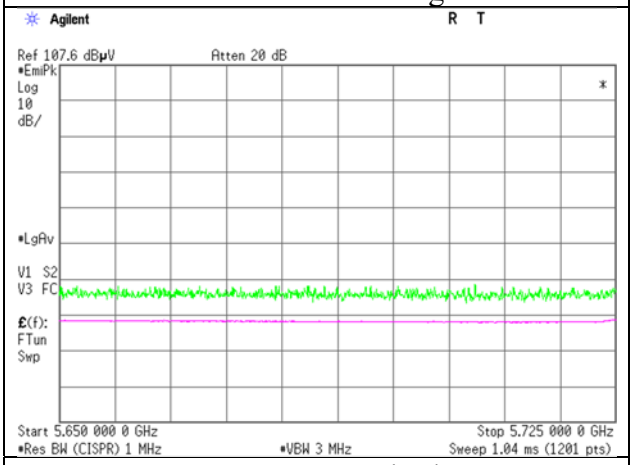
(PIFA Antenna)

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

Horizontal

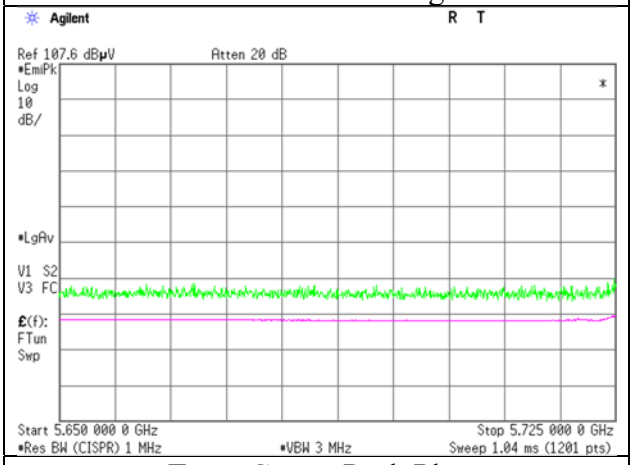
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	42.3	31.8	6.1	31.9	-	48.2	68.2	20.0	
Hori.	5700.000	PK	45.7	31.9	6.1	31.9	-	51.8	105.2	53.4	
Hori.	5720.000	PK	52.2	32.0	6.1	31.9	-	58.4	110.8	52.4	
Hori.	5725.000	PK	55.6	32.0	6.1	31.9	-	61.8	122.2	60.4	
Vert.	5650.000	PK	43.0	31.8	6.1	31.9	-	49.0	68.2	19.2	
Vert.	5700.000	PK	45.7	31.9	6.1	31.9	-	51.8	105.2	53.4	
Vert.	5720.000	PK	54.0	32.0	6.1	31.9	-	60.1	110.8	50.7	
Vert.	5725.000	PK	56.8	32.0	6.1	31.9	-	63.0	122.2	59.2	

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 20log (3.9 m / 3.0 m) = 2.28 dB

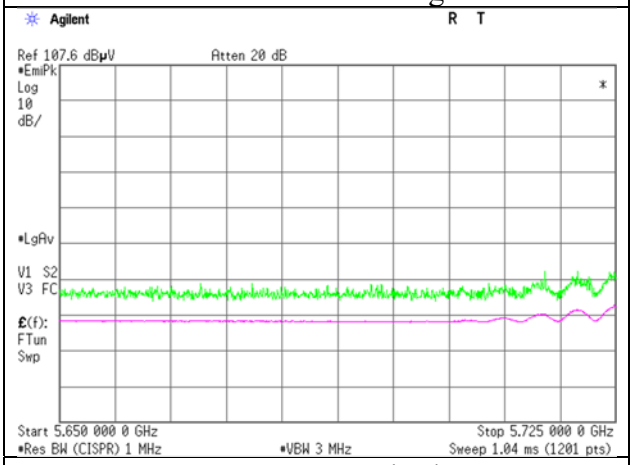
Radiated Spurious Emission
(PIFA Antenna)

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

Horizontal

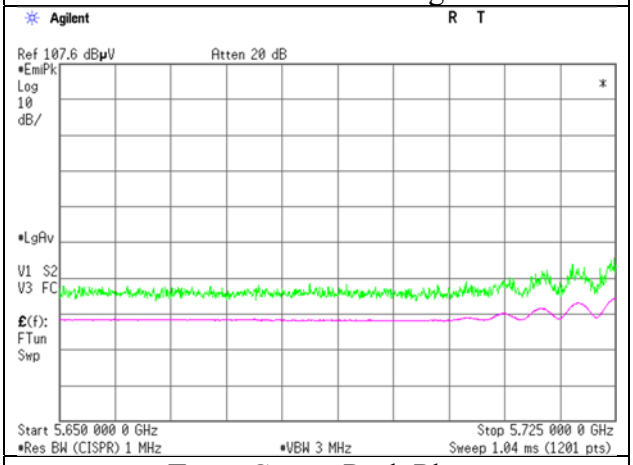
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	42.0	32.2	6.1	31.9	-	48.5	110.8	62.3	
Hori.	5875.000	PK	41.7	32.3	6.2	31.9	-	48.1	105.2	57.1	
Hori.	5925.000	PK	42.1	32.3	6.2	31.9	-	48.6	68.2	19.6	
Vert.	5850.000	PK	42.1	32.2	6.1	31.9	-	48.6	122.2	73.6	
Vert.	5855.000	PK	41.7	32.2	6.1	31.9	-	48.2	110.8	62.6	
Vert.	5875.000	PK	41.8	32.3	6.2	31.9	-	48.2	105.2	57.0	
Vert.	5925.000	PK	41.7	32.3	6.2	31.9	-	48.2	68.2	20.0	

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

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

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

Radiated Spurious Emission

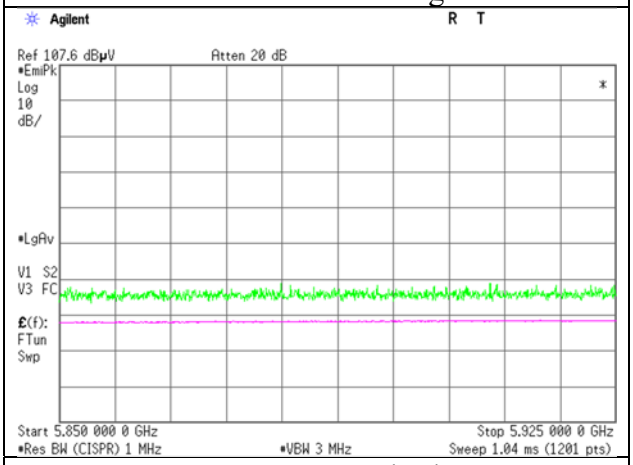
(PIFA Antenna)

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

Horizontal

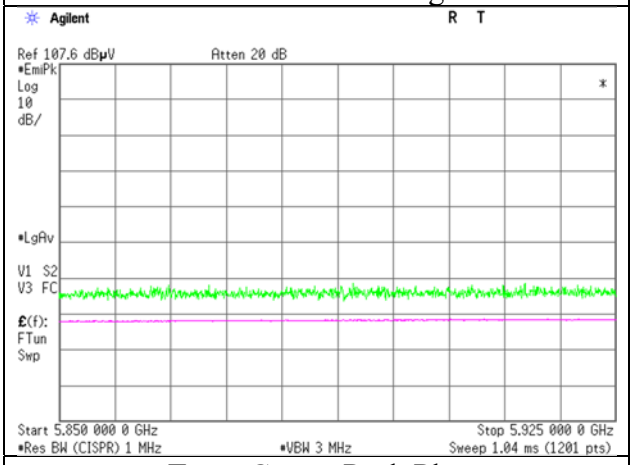
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	42.2	32.2	6.1	31.9	-	48.7	122.2	73.5	
Hori.	5855.000	PK	42.2	32.2	6.1	31.9	-	48.7	110.8	62.1	
Hori.	5875.000	PK	42.1	32.3	6.2	31.9	-	48.6	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	42.2	32.2	6.1	31.9	-	48.7	122.2	73.5	
Vert.	5855.000	PK	42.0	32.2	6.1	31.9	-	48.5	110.8	62.3	
Vert.	5875.000	PK	42.1	32.3	6.2	31.9	-	48.6	105.2	56.6	
Vert.	5925.000	PK	42.1	32.3	6.2	31.9	-	48.6	68.2	19.6	

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

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

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

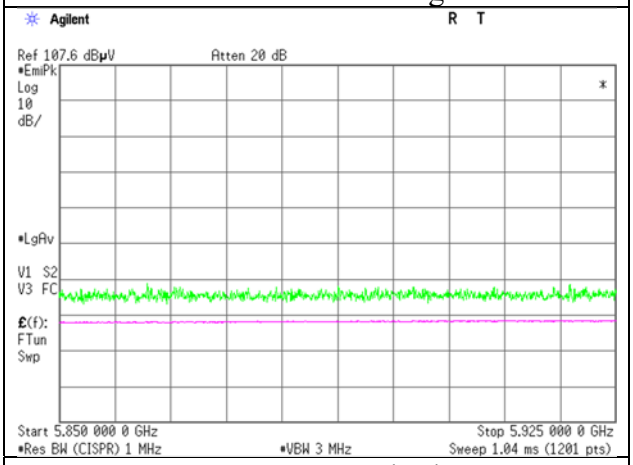
Radiated Spurious Emission
(PIFA Antenna)

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

Horizontal

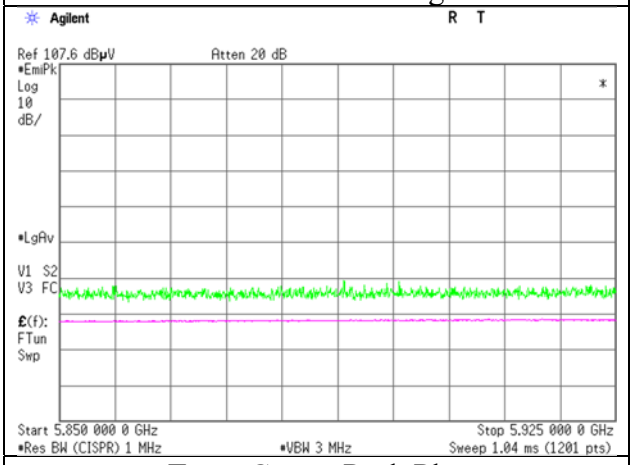
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	42.2	32.2	6.1	31.9	-	48.7	122.2	73.5	
Hori.	5855.000	PK	42.1	32.2	6.1	31.9	-	48.6	110.8	62.2	
Hori.	5875.000	PK	41.8	32.3	6.2	31.9	-	48.3	105.2	56.9	
Hori.	5925.000	PK	42.1	32.3	6.2	31.9	-	48.6	68.2	19.6	
Vert.	5850.000	PK	42.5	32.2	6.1	31.9	-	48.9	122.2	73.3	
Vert.	5855.000	PK	42.2	32.2	6.1	31.9	-	48.6	110.8	62.2	
Vert.	5875.000	PK	42.3	32.3	6.2	31.9	-	48.8	105.2	56.4	
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 20log (3.9 m / 3.0 m) = 2.28 dB

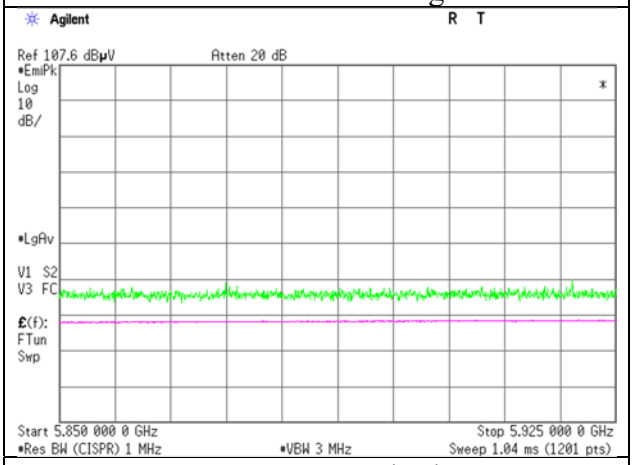
Radiated Spurious Emission
(PIFA Antenna)

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

Horizontal

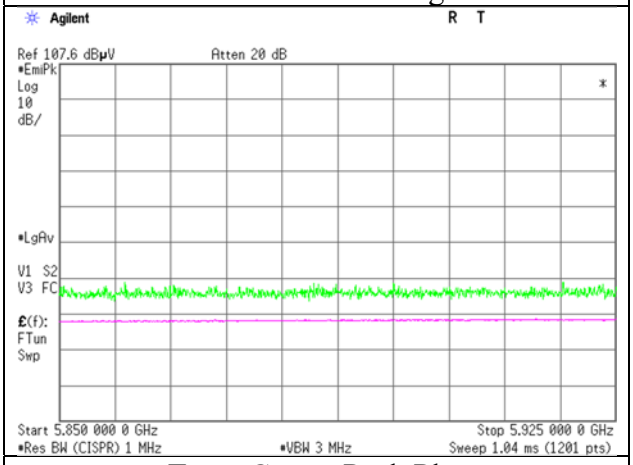
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	42.1	32.2	6.1	31.9	-	48.6	122.2	73.7	
Hori.	5855.000	PK	42.0	32.2	6.1	31.9	-	48.5	110.8	62.3	
Hori.	5875.000	PK	42.0	32.3	6.2	31.9	-	48.5	105.2	56.7	
Hori.	5925.000	PK	42.0	32.3	6.2	31.9	-	48.5	68.2	19.7	
Vert.	5850.000	PK	42.9	32.2	6.1	31.9	-	49.4	122.2	72.8	
Vert.	5855.000	PK	42.4	32.2	6.1	31.9	-	48.9	110.8	61.9	
Vert.	5875.000	PK	42.0	32.3	6.2	31.9	-	48.4	105.2	56.8	
Vert.	5925.000	PK	42.2	32.3	6.2	31.9	-	48.7	68.2	19.5	

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 20log (3.9 m / 3.0 m) = 2.28 dB

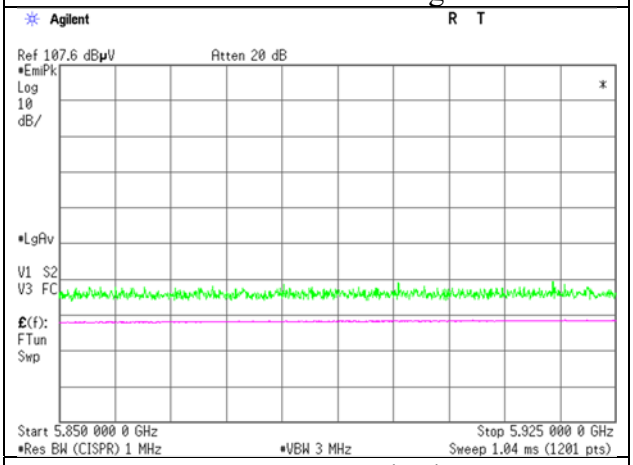
Radiated Spurious Emission
(PIFA Antenna)

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

Horizontal

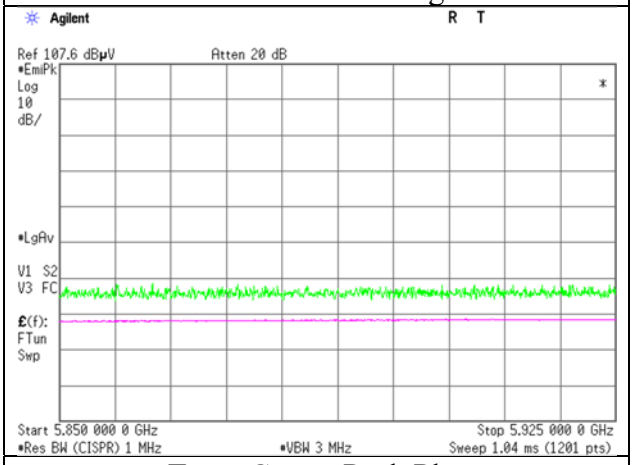
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	February 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	44.0	32.2	6.1	31.9	-	50.5	122.2	71.7	
Hori.	5855.000	PK	43.1	32.2	6.1	31.9	-	49.5	110.8	61.3	
Hori.	5875.000	PK	42.4	32.3	6.2	31.9	-	48.9	105.2	56.3	
Hori.	5925.000	PK	42.3	32.3	6.2	31.9	-	48.8	68.2	19.4	
Vert.	5850.000	PK	43.7	32.2	6.1	31.9	-	50.2	122.2	72.1	
Vert.	5855.000	PK	43.4	32.2	6.1	31.9	-	49.8	110.8	61.0	
Vert.	5875.000	PK	42.2	32.3	6.2	31.9	-	48.7	105.2	56.6	
Vert.	5925.000	PK	42.2	32.3	6.2	31.9	-	48.7	68.2	19.5	

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 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission

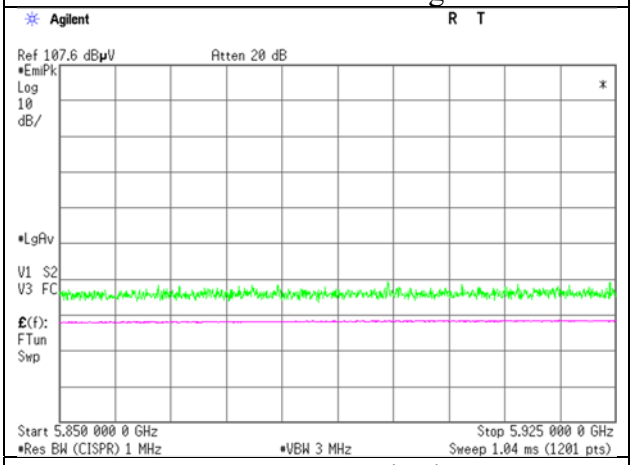
(PIFA Antenna)

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

Horizontal

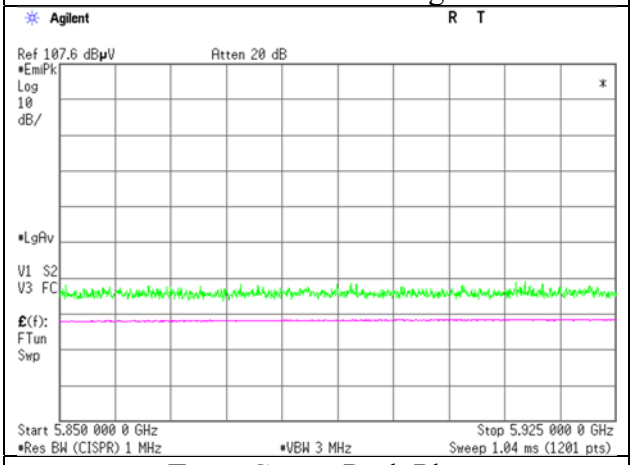
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission

(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(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	41.2	31.8	6.2	31.8	-	47.3	68.2	20.9	
Hori.	5700.000	PK	53.8	31.9	6.2	31.8	-	60.0	105.2	45.2	
Hori.	5720.000	PK	57.4	32.0	6.2	31.8	-	63.8	110.8	47.0	
Hori.	5725.000	PK	59.3	32.0	6.2	31.8	-	65.7	122.2	56.5	
Hori.	5850.000	PK	44.0	32.2	6.2	31.8	-	50.6	122.2	71.6	
Hori.	5855.000	PK	43.2	32.2	6.2	31.8	-	49.8	110.8	61.0	
Hori.	5875.000	PK	42.0	32.3	6.3	31.8	-	48.7	105.2	56.5	
Hori.	5925.000	PK	40.9	32.3	6.3	31.9	-	47.6	68.2	20.6	
Vert.	5650.000	PK	41.8	31.8	6.2	31.8	-	48.0	68.2	20.2	
Vert.	5700.000	PK	55.9	31.9	6.2	31.8	-	62.1	105.2	43.1	
Vert.	5720.000	PK	58.4	32.0	6.2	31.8	-	64.8	110.8	46.0	
Vert.	5725.000	PK	59.8	32.0	6.2	31.8	-	66.2	122.2	56.0	
Vert.	5850.000	PK	49.8	32.2	6.2	31.8	-	56.5	122.2	65.8	
Vert.	5855.000	PK	48.0	32.2	6.2	31.8	-	54.6	110.8	56.2	
Vert.	5875.000	PK	45.3	32.3	6.3	31.8	-	51.9	105.2	53.3	
Vert.	5925.000	PK	41.1	32.3	6.3	31.9	-	47.8	68.2	20.4	

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

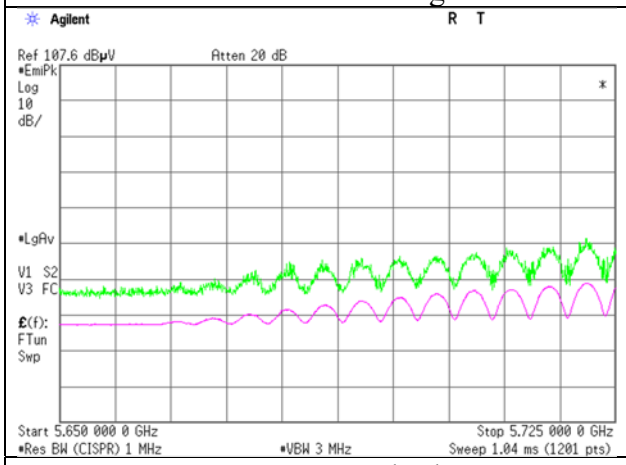
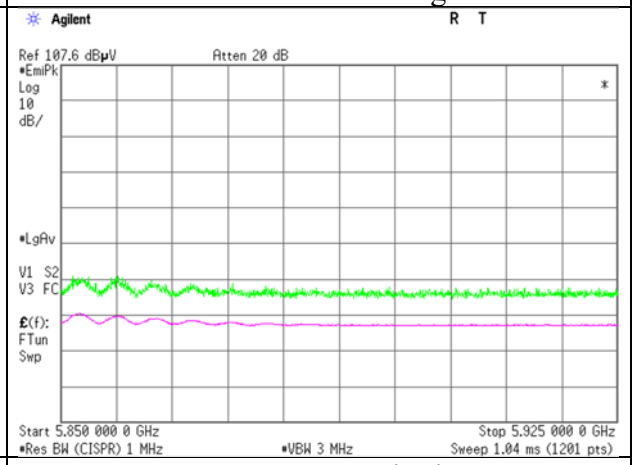
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

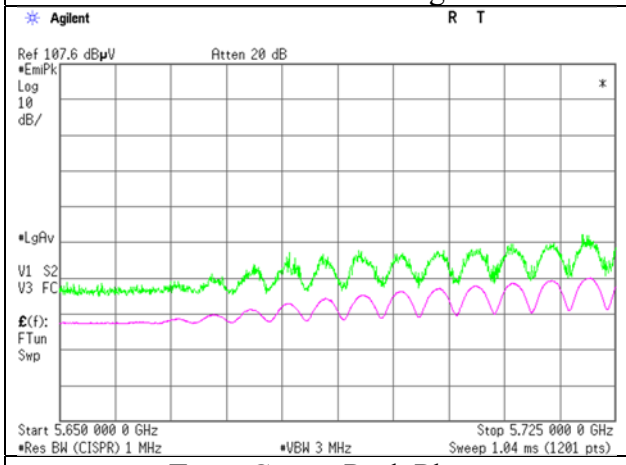
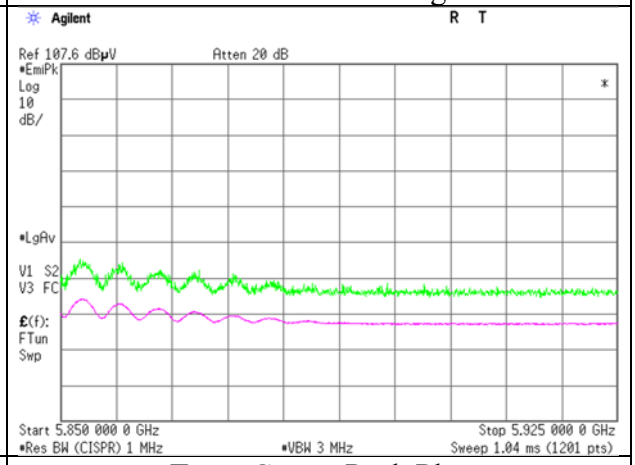
Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	April 8, 2020
Temperature / Humidity	21 deg. C / 30 % RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5775 MHz (996-tone RU)

RU Index 67

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

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

Radiated Spurious Emission
(PIFA Antenna)

Report No.	13170804H	
Test place	Ise EMC Lab. No.2 Semi Anechoic Chamber	
Date	January 21, 2020	January 22, 2020
Temperature / Humidity	23 deg. 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.	33.220	QP	28.8	17.4	7.1	30.5	-	22.8	40.0	17.2	
Hori.	54.275	QP	25.2	9.8	7.4	30.4	-	12.0	40.0	28.0	
Hori.	93.018	QP	25.5	9.1	7.9	30.2	-	12.3	43.5	31.2	
Hori.	352.037	QP	24.6	15.0	10.2	29.5	-	20.4	46.0	25.6	
Hori.	494.477	QP	24.0	17.5	11.0	30.0	-	22.4	46.0	23.6	
Hori.	978.888	QP	22.1	22.2	13.3	27.8	-	29.8	54.0	24.2	
Hori.	5350.000	PK	49.1	31.5	5.8	34.3	-	52.2	73.9	21.7	
Hori.	5354.560	PK	47.8	31.5	5.8	34.3	-	50.9	73.9	23.0	
Hori.	10580.000	PK	41.8	40.1	-2.1	34.5	-	45.2	68.2	23.0	Floor noise
Hori.	15870.000	PK	44.8	37.4	-0.4	34.2	-	47.6	73.9	26.4	Floor noise
Hori.	5350.000	AV	38.6	31.5	5.8	34.3	0.8	42.4	53.9	11.5	*1)
Hori.	5354.560	AV	38.3	31.5	5.8	34.3	0.8	42.1	53.9	11.8	*1)
Hori.	15870.000	AV	36.5	37.4	-0.4	34.2	-	39.3	53.9	14.7	Floor noise
Vert.	33.220	QP	32.8	17.4	7.1	30.5	-	26.8	40.0	13.2	
Vert.	54.275	QP	34.9	9.8	7.4	30.4	-	21.7	40.0	18.3	
Vert.	93.018	QP	26.6	9.1	7.9	30.2	-	13.4	43.5	30.1	
Vert.	352.037	QP	25.0	15.0	10.2	29.5	-	20.8	46.0	25.2	
Vert.	494.477	QP	24.1	17.5	11.0	30.0	-	22.5	46.0	23.5	
Vert.	978.888	QP	22.1	22.2	13.3	27.8	-	29.8	54.0	24.2	
Vert.	5350.000	PK	51.5	31.5	5.8	34.3	-	54.6	73.9	19.3	
Vert.	5354.560	PK	51.5	31.5	5.8	34.3	-	54.6	73.9	19.3	
Vert.	10580.000	PK	43.4	40.1	-2.1	34.5	-	46.9	68.2	21.3	Floor noise
Vert.	15870.000	PK	44.4	37.4	-0.4	34.2	-	47.2	73.9	26.7	Floor noise
Vert.	5350.000	AV	41.3	31.5	5.8	34.3	0.8	45.1	53.9	8.8	*1)
Vert.	5354.560	AV	42.8	31.5	5.8	34.3	0.8	46.6	53.9	7.3	*1)
Vert.	15870.000	AV	36.2	37.4	-0.4	34.2	-	39.0	53.9	14.9	Floor noise

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

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

Distance factor: 1 GHz - 10 GHz 20log (3.65 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)

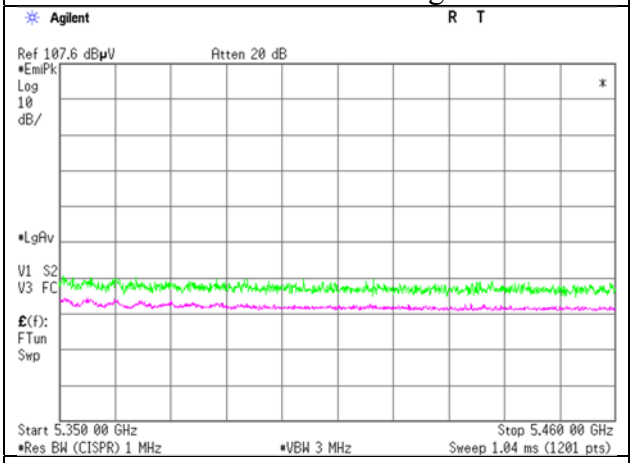
Radiated Spurious Emission

(PIFA Antenna)

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

Horizontal

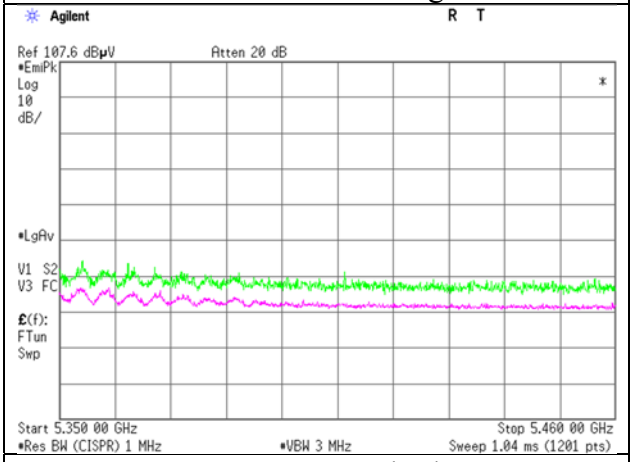
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot

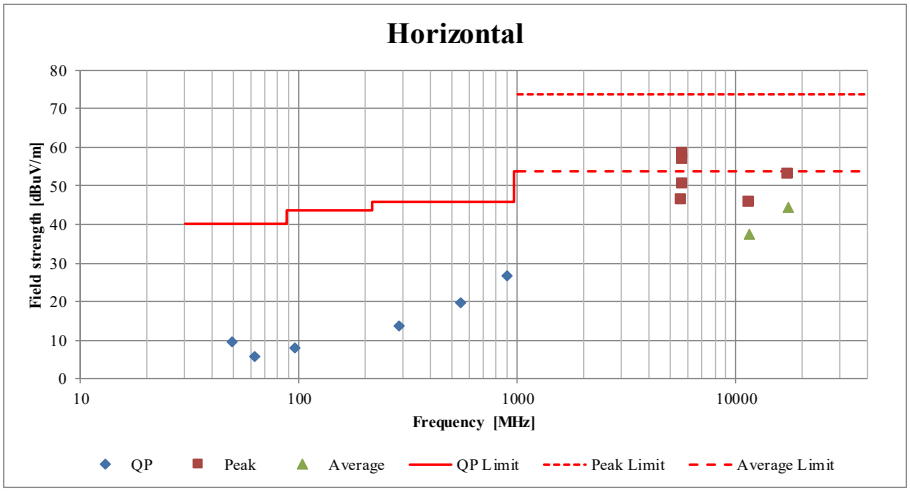


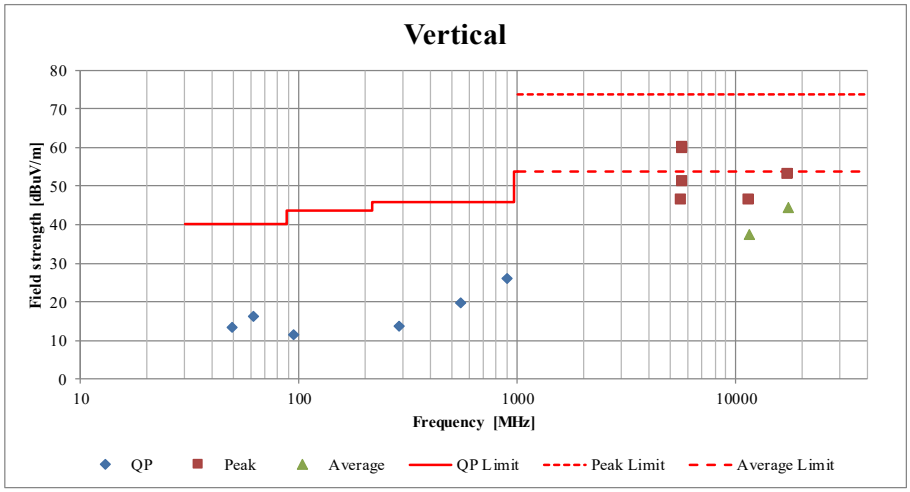
Trace Green: Peak Plot
Trace Purple: Average Plot

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

Radiated Spurious Emission
(Plot data, Worst case)
(PIFA Antenna)

Report No.	13170804H			
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber			
Date	December 21, 2019	January 9, 2020	January 9, 2020	January 10, 2020
Temperature / Humidity	23 deg. C / 40 % RH	22 deg. C / 34 % RH	24 deg. C / 35 % RH	24 deg. C / 35 % RH
Engineer	Yuta Moriya	Junki Nagatomi	Tomohisa Nakagawa	Tomohisa Nakagawa
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)	(Below1GHz)
Mode	Tx 11ax-40 5755 MHz (OFDM)			





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

Radiated Spurious Emission
(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
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5180 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5150.000	PK	41.4	31.7	5.9	31.8	-	47.2	73.9	26.7	
Hori.	10360.000	PK	44.7	40.1	-3.1	33.5	-	48.2	68.2	20.0	Floor noise
Hori.	15540.000	PK	44.2	37.7	-1.6	32.7	-	47.6	73.9	26.3	Floor noise
Hori.	5150.000	AV	32.9	31.7	5.9	31.8	0.5	39.2	53.9	14.7	*1)
Hori.	15540.000	AV	35.4	37.7	-1.6	32.7	-	38.8	53.9	15.1	Floor noise
Vert.	5150.000	PK	42.5	31.7	5.9	31.8	-	48.3	73.9	25.6	
Vert.	10360.000	PK	45.0	40.1	-3.1	33.5	-	48.5	68.2	19.7	Floor noise
Vert.	15540.000	PK	43.3	37.7	-1.6	32.7	-	46.6	73.9	27.3	Floor noise
Vert.	5150.000	AV	33.5	31.7	5.9	31.8	0.5	39.8	53.9	14.1	*1)
Vert.	15540.000	AV	35.4	37.7	-1.6	32.7	-	38.7	53.9	15.2	Floor noise

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

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

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

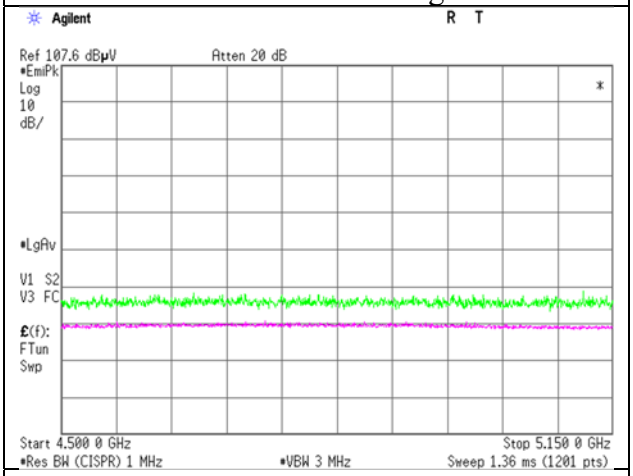
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

(IFA Antenna)

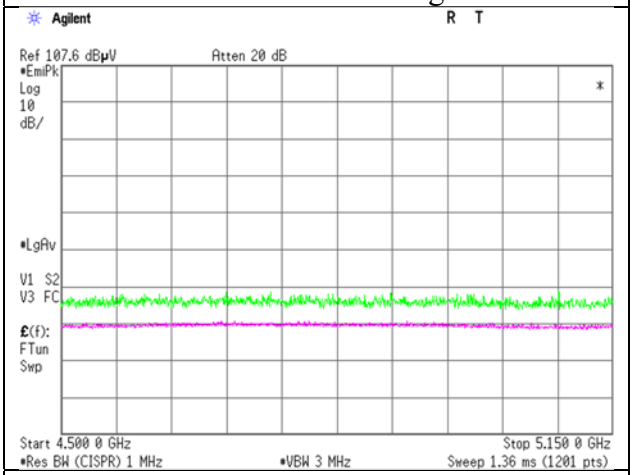
Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 7, 2020
Temperature / Humidity	23 deg. C / 38 RH
Engineer	Junki Nagatomi
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (OFDM)

Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	January 7, 2020	January 7, 2020	January 8, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5260 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	10520.000	PK	41.0	40.0	-3.0	33.6	-	44.5	68.2	23.7	Floor noise
Hori.	15780.000	PK	42.0	37.3	-1.6	32.8	-	44.9	73.9	29.0	Floor noise
Hori.	15780.000	AV	33.4	37.3	-1.6	32.8	-	36.3	53.9	17.6	Floor noise
Vert.	10520.000	PK	41.0	40.0	-3.0	33.6	-	44.5	68.2	23.7	Floor noise
Vert.	15780.000	PK	41.1	37.3	-1.6	32.8	-	43.9	73.9	30.0	Floor noise
Vert.	15780.000	AV	33.1	37.3	-1.6	32.8	-	35.9	53.9	18.0	Floor noise

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

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

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

Radiated Spurious Emission
(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
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5320 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5350.000	PK	41.7	31.5	6.0	31.8	-	47.3	73.9	26.6	
Hori.	10640.000	PK	42.5	39.9	-2.9	33.6	-	45.9	73.9	28.0	Floor noise
Hori.	15960.000	PK	43.2	37.9	-1.7	32.8	-	46.5	73.9	27.4	Floor noise
Hori.	5350.000	AV	33.2	31.5	6.0	31.8	0.5	39.3	53.9	14.6	*1)
Hori.	10640.000	AV	33.8	39.9	-2.9	33.6	-	37.1	53.9	16.8	Floor noise
Hori.	15960.000	AV	35.0	37.9	-1.7	32.8	-	38.4	53.9	15.5	Floor noise
Vert.	5350.000	PK	43.3	31.5	6.0	31.8	-	48.9	73.9	25.0	
Vert.	10640.000	PK	42.4	39.9	-2.9	33.6	-	45.7	73.9	28.2	Floor noise
Vert.	15960.000	PK	43.1	37.9	-1.7	32.8	-	46.4	73.9	27.5	Floor noise
Vert.	5350.000	AV	34.3	31.5	6.0	31.8	0.5	40.4	53.9	13.5	*1)
Vert.	10640.000	AV	33.7	39.9	-2.9	33.6	-	37.0	53.9	16.9	Floor noise
Vert.	15960.000	AV	34.8	37.9	-1.7	32.8	-	38.2	53.9	15.8	Floor noise

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

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

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

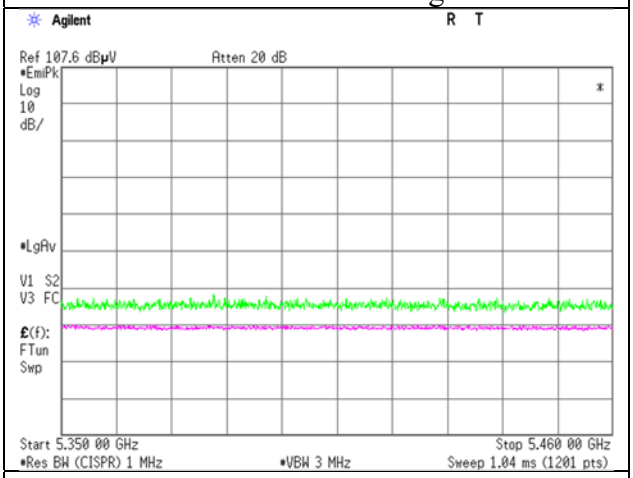
*1) Not Out of Band emission (Leakage Power)

Radiated Spurious Emission
(IFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 7, 2020
Temperature / Humidity	23 deg. C / 38 RH
Engineer	Junki Nagatomi
Mode	Tx 11ax-20 5320 MHz (OFDM)

Horizontal

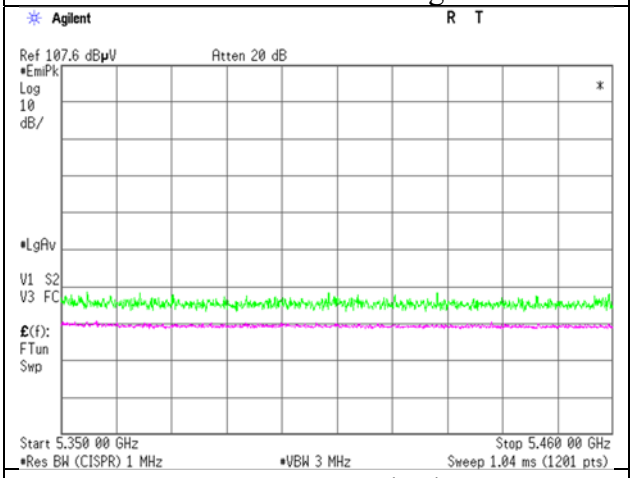
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	January 7, 2020	January 7, 2020	January 8, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5500 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5460.000	PK	41.2	31.7	6.0	31.9	-	47.0	68.2	21.2	
Hori.	5470.000	PK	41.7	31.7	6.0	31.9	-	47.5	68.2	20.7	
Hori.	11000.000	PK	41.9	40.2	-2.7	33.6	-	45.7	73.9	28.2	Floor noise
Hori.	16500.000	PK	44.6	39.6	-1.6	32.7	-	49.9	68.2	18.3	Floor noise
Hori.	5460.000	AV	32.6	31.7	6.0	31.9	0.5	39.0	53.9	14.9	*1)
Hori.	11000.000	AV	33.9	40.2	-2.7	33.6	-	37.7	53.9	16.2	Floor noise
Vert.	5460.000	PK	41.2	31.7	6.0	31.9	-	47.1	68.2	21.2	
Vert.	5470.000	PK	42.8	31.7	6.0	31.9	-	48.6	68.2	19.6	
Vert.	11000.000	PK	41.9	40.2	-2.7	33.6	-	45.8	73.9	28.1	Floor noise
Vert.	16500.000	PK	43.6	39.6	-1.6	32.7	-	49.0	68.2	19.2	Floor noise
Vert.	5460.000	AV	33.0	31.7	6.0	31.9	0.5	39.3	53.9	14.6	*1)
Vert.	11000.000	AV	33.6	40.2	-2.7	33.6	-	37.5	53.9	16.4	Floor noise

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

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

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

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

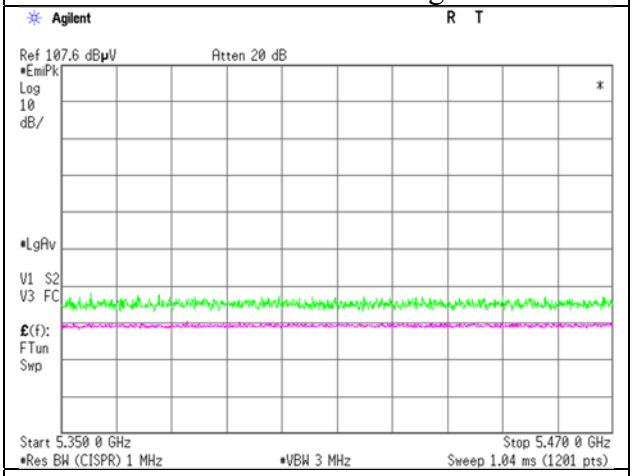
Radiated Spurious Emission

(IFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 7, 2020
Temperature / Humidity	23 deg. C / 38 RH
Engineer	Junki Nagatomi
Mode	Tx 11ax-20 5500 MHz (OFDM)

Horizontal

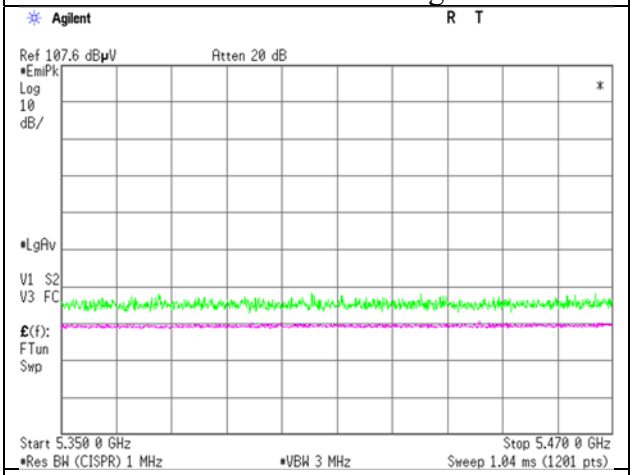
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	January 7, 2020	January 7, 2020	January 8, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5580 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	43.3	32.0	6.1	31.9	-	49.5	68.2	18.7	
Hori.	11160.000	PK	42.0	39.8	-2.7	33.6	-	45.5	73.9	28.4	Floor noise
Hori.	16740.000	PK	44.9	41.1	-1.5	32.7	-	51.8	68.2	16.4	Floor noise
Hori.	11160.000	AV	33.9	39.8	-2.7	33.6	-	37.4	53.9	16.5	Floor noise
Vert.	5725.000	PK	45.1	32.0	6.1	31.9	-	51.3	68.2	16.9	
Vert.	11160.000	PK	42.5	39.8	-2.7	33.6	-	46.0	73.9	27.9	Floor noise
Vert.	16740.000	PK	42.6	41.1	-1.5	32.7	-	49.6	68.2	18.7	Floor noise
Vert.	11160.000	AV	33.6	39.8	-2.7	33.6	-	37.1	53.9	16.8	Floor noise

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

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

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

Radiated Spurious Emission
(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
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 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)
Mode	Tx 11ax-20 5700 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5725.000	PK	43.3	32.0	6.1	31.9	-	49.5	68.2	18.7	
Hori.	11400.000	PK	42.1	39.9	-2.5	33.6	-	45.9	73.9	28.0	Floor noise
Hori.	17100.000	PK	44.0	42.3	-1.4	32.6	-	52.2	68.2	16.0	Floor noise
Hori.	11400.000	AV	33.7	39.9	-2.5	33.6	-	37.5	53.9	16.5	Floor noise
Vert.	5725.000	PK	45.1	32.0	6.1	31.9	-	51.3	68.2	16.9	
Vert.	11400.000	PK	42.3	39.9	-2.5	33.6	-	46.0	73.9	27.9	Floor noise
Vert.	17100.000	PK	43.8	42.3	-1.4	32.6	-	52.1	68.2	16.2	Floor noise
Vert.	11400.000	AV	33.4	39.9	-2.5	33.6	-	37.2	53.9	16.7	Floor noise

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

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

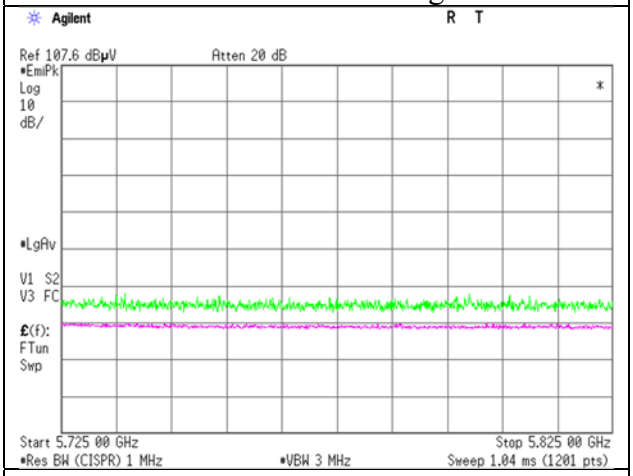
Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(IFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 7, 2020
Temperature / Humidity	23 deg. C / 38 RH
Engineer	Junki Nagatomi
Mode	Tx 11ax-20 5700 MHz (OFDM)

Horizontal

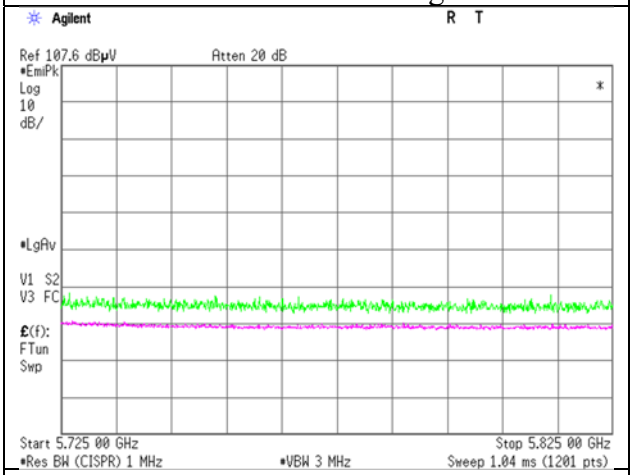
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	January 7, 2020	January 7, 2020	January 8, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5745 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5650.000	PK	41.2	31.8	6.1	31.9	-	47.1	68.2	21.1	
Hori.	5700.000	PK	41.3	31.9	6.1	31.9	-	47.4	105.2	57.8	
Hori.	5720.000	PK	46.4	32.0	6.1	31.9	-	52.6	110.8	58.2	
Hori.	5725.000	PK	52.1	32.0	6.1	31.9	-	58.2	122.2	64.0	
Hori.	11490.000	PK	42.0	39.7	-2.5	33.5	-	45.7	73.9	28.3	Floor noise
Hori.	17235.000	PK	43.6	42.7	-1.4	32.6	-	52.3	68.2	15.9	Floor noise
Hori.	11490.000	AV	33.5	39.7	-2.5	33.5	-	37.2	53.9	16.7	Floor noise
Vert.	5650.000	PK	40.4	31.8	6.1	31.9	-	46.3	68.2	21.9	
Vert.	5700.000	PK	42.0	31.9	6.1	31.9	-	48.0	105.2	57.2	
Vert.	5720.000	PK	46.3	32.0	6.1	31.9	-	52.5	110.8	58.4	
Vert.	5725.000	PK	51.5	32.0	6.1	31.9	-	57.7	122.2	64.5	
Vert.	11490.000	PK	41.7	39.7	-2.5	33.5	-	45.4	73.9	28.5	Floor noise
Vert.	17235.000	PK	44.1	42.7	-1.4	32.6	-	52.9	68.2	15.3	Floor noise
Vert.	11490.000	AV	33.2	39.7	-2.5	33.5	-	36.9	53.9	17.0	Floor noise

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

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

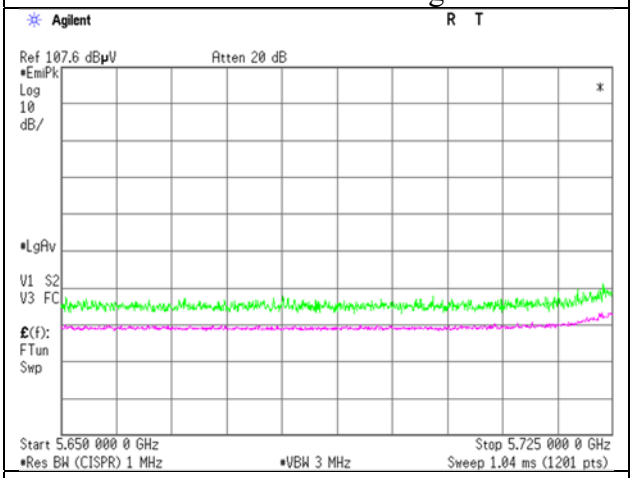
Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission
(IFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 7, 2020
Temperature / Humidity	23 deg. C / 38 RH
Engineer	Junki Nagatomi
Mode	Tx 11ax-20 5745 MHz (OFDM)

Horizontal

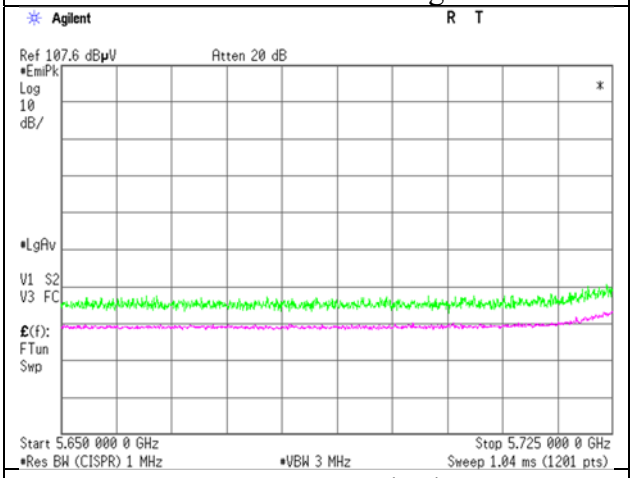
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	January 7, 2020	January 7, 2020	January 8, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5785 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	11570.000	PK	42.0	39.5	-2.4	33.5	-	45.6	73.9	28.3	Floor noise
Hori.	17355.000	PK	44.0	44.0	-1.3	32.6	-	54.1	68.2	14.2	Floor noise
Hori.	11570.000	AV	33.4	39.5	-2.4	33.5	-	37.0	53.9	17.0	Floor noise
Vert.	11570.000	PK	41.8	39.5	-2.4	33.5	-	45.4	73.9	28.5	Floor noise
Vert.	17355.000	PK	43.6	44.0	-1.3	32.6	-	53.6	68.2	14.6	Floor noise
Vert.	11570.000	AV	33.2	39.5	-2.4	33.5	-	36.8	53.9	17.1	Floor noise

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

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

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

Radiated Spurious Emission
(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
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-20 5825 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5850.000	PK	44.6	32.2	6.1	31.9	-	51.1	122.2	71.1	
Hori.	5855.000	PK	43.3	32.2	6.1	31.9	-	49.8	110.8	61.0	
Hori.	5875.000	PK	42.0	32.3	6.2	31.9	-	48.4	105.2	56.8	
Hori.	5925.000	PK	41.3	32.3	6.2	31.9	-	47.8	68.2	20.4	
Hori.	11650.000	PK	43.4	39.2	-2.4	33.5	-	46.7	73.9	27.2	Floor noise
Hori.	17475.000	PK	42.8	44.7	-1.3	32.6	-	53.6	68.2	14.7	Floor noise
Hori.	11650.000	AV	34.1	39.2	-2.4	33.5	-	37.4	53.9	16.5	Floor noise
Vert.	5850.000	PK	44.9	32.2	6.1	31.9	-	51.4	122.2	70.8	
Vert.	5855.000	PK	43.3	32.2	6.1	31.9	-	49.8	110.8	61.0	
Vert.	5875.000	PK	41.6	32.3	6.2	31.9	-	48.0	105.2	57.2	
Vert.	5925.000	PK	40.9	32.3	6.2	31.9	-	47.4	68.2	20.8	
Vert.	11650.000	PK	42.2	39.2	-2.4	33.5	-	45.5	73.9	28.4	Floor noise
Vert.	17475.000	PK	44.6	44.7	-1.3	32.6	-	55.4	68.2	12.8	Floor noise
Vert.	11650.000	AV	33.8	39.2	-2.4	33.5	-	37.1	53.9	16.8	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

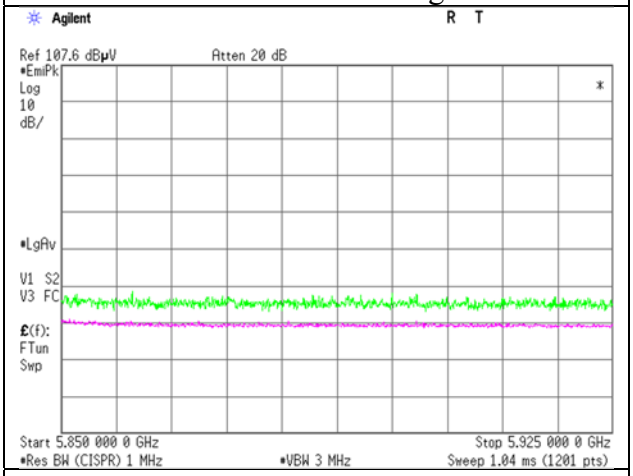
Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

(IFA Antenna)

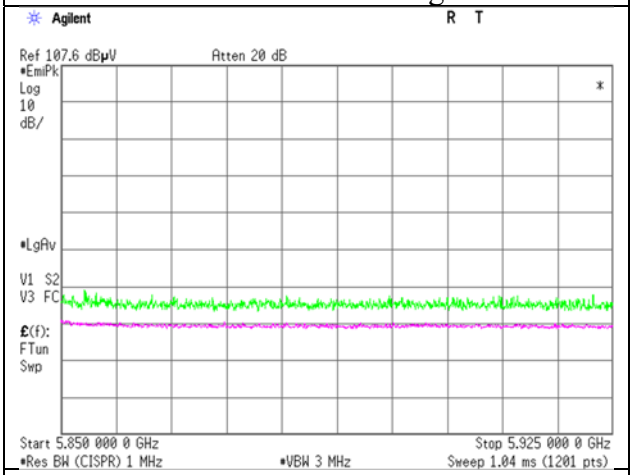
Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 7, 2020
Temperature / Humidity	23 deg. C / 38 RH
Engineer	Junki Nagatomi
Mode	Tx 11ax-20 5825 MHz (OFDM)

Horizontal
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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	January 7, 2020	January 7, 2020	January 8, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-40 5190 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5150.000	PK	42.4	31.7	5.9	31.8	-	48.2	73.9	25.7	
Hori.	10380.000	PK	42.0	40.1	-3.1	33.5	-	45.5	68.2	22.8	Floor noise
Hori.	15570.000	PK	44.7	37.5	-1.6	32.8	-	47.8	73.9	26.1	Floor noise
Hori.	5150.000	AV	33.0	31.7	5.9	31.8	0.8	39.6	53.9	14.3	*1)
Hori.	15570.000	AV	35.7	37.5	-1.6	32.8	-	38.8	53.9	15.1	Floor noise
Vert.	5150.000	PK	43.8	31.7	5.9	31.8	-	49.6	73.9	24.3	
Vert.	10380.000	PK	42.2	40.1	-3.1	33.5	-	45.7	68.2	22.5	Floor noise
Vert.	15570.000	PK	44.4	37.5	-1.6	32.8	-	47.5	73.9	26.4	Floor noise
Vert.	5150.000	AV	34.0	31.7	5.9	31.8	0.8	40.5	53.9	13.4	*1)
Vert.	15570.000	AV	35.6	37.5	-1.6	32.8	-	38.7	53.9	15.2	Floor noise

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

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

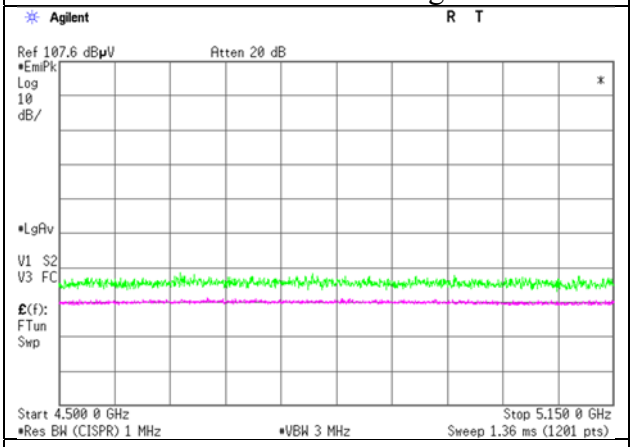
Distance factor: 1 GHz - 10 GHz 20log (3.9 m / 3.0 m) = 2.28 dB
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

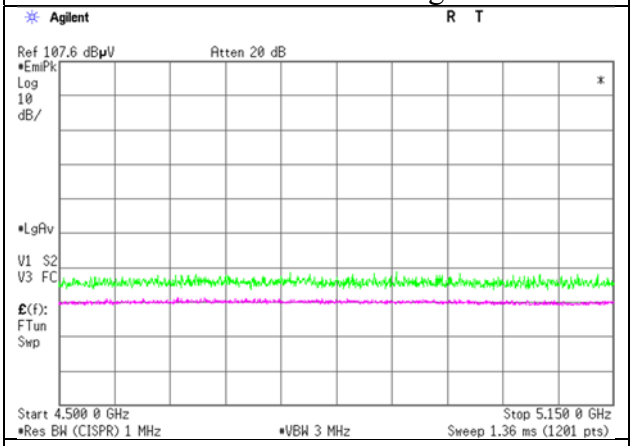
*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

(IFA Antenna)

Report No.	13170804H
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	January 7, 2020
Temperature / Humidity	23 deg. C / 38 RH
Engineer	Junki Nagatomi
Mode	Tx 11ax-40 5190 MHz (OFDM)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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	January 7, 2020	January 7, 2020	January 8, 2020
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-40 5270 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	10540.000	PK	41.9	40.0	-3.0	33.6	-	45.4	68.2	22.8	Floor noise
Hori.	15810.000	PK	43.7	37.1	-1.7	32.8	-	46.4	73.9	27.6	Floor noise
Hori.	15810.000	AV	35.2	37.1	-1.7	32.8	-	37.8	53.9	16.1	Floor noise
Vert.	10540.000	PK	41.2	40.0	-3.0	33.6	-	44.7	68.2	23.5	Floor noise
Vert.	15810.000	PK	43.3	37.1	-1.7	32.8	-	45.9	73.9	28.0	Floor noise
Vert.	15810.000	AV	34.9	37.1	-1.7	32.8	-	37.5	53.9	16.4	Floor noise

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

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

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

Radiated Spurious Emission
(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
Temperature / Humidity	23 deg. C / 38 RH	23 deg. C / 35 % RH	22 deg. C / 39 RH
Engineer	Junki Nagatomi	Tomohisa Nakagawa	Junki Nagatomi
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)
		(26.5 GHz - 40 GHz)	
Mode	Tx 11ax-40 5310 MHz (OFDM)		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	5350.000	PK	44.4	31.5	6.0	31.8	-	50.0	73.9	23.9	
Hori.	10620.000	PK	42.4	39.8	-2.9	33.6	-	45.7	73.9	28.2	Floor noise
Hori.	15930.000	PK	43.6	37.6	-1.7	32.8	-	46.7	73.9	27.2	Floor noise
Hori.	5350.000	AV	33.9	31.5	6.0	31.8	0.8	40.2	53.9	13.7	*1)
Hori.	10620.000	AV	33.4	39.8	-2.9	33.6	-	36.7	53.9	17.3	Floor noise
Hori.	15930.000	AV	34.6	37.6	-1.7	32.8	-	37.7	53.9	16.2	Floor noise
Vert.	5350.000	PK	45.2	31.5	6.0	31.8	-	50.8	73.9	23.1	
Vert.	10620.000	PK	43.0	39.8	-2.9	33.6	-	46.3	73.9	27.6	Floor noise
Vert.	15930.000	PK	44.3	37.6	-1.7	32.8	-	47.4	73.9	26.5	Floor noise
Vert.	5350.000	AV	35.9	31.5	6.0	31.8	0.8	42.3	53.9	11.6	*1)
Vert.	10620.000	AV	33.4	39.8	-2.9	33.6	-	36.7	53.9	17.2	Floor noise
Vert.	15930.000	AV	34.6	37.6	-1.7	32.8	-	37.7	53.9	16.2	Floor noise

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

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

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

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