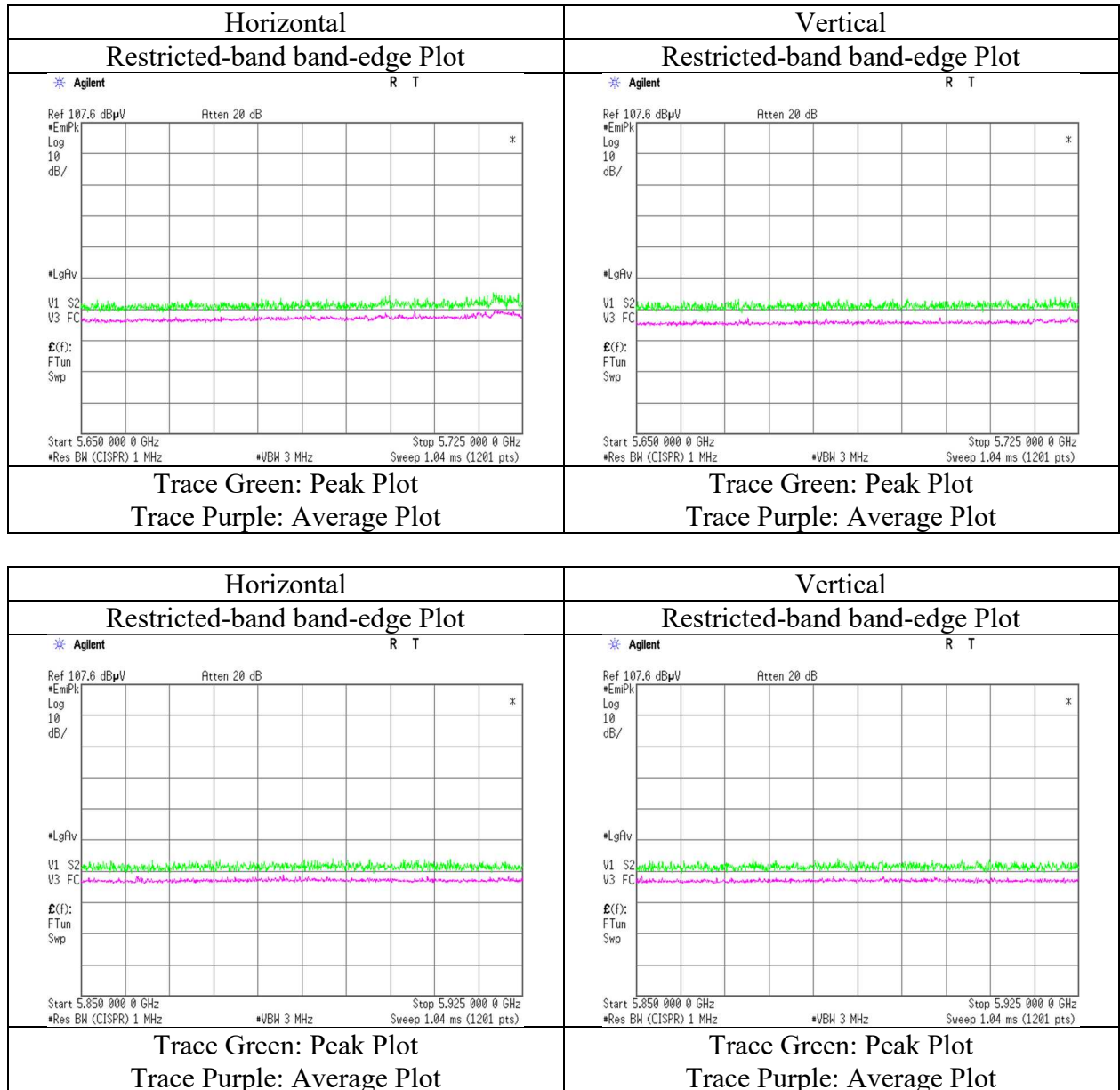


Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 18, 2020
Temperature / Humidity	24 deg. C / 59 % RH
Engineer	Kazuhiro Ando
Mode	Tx 11ac-80 MIMO 5775 MHz
EUT	Lo type

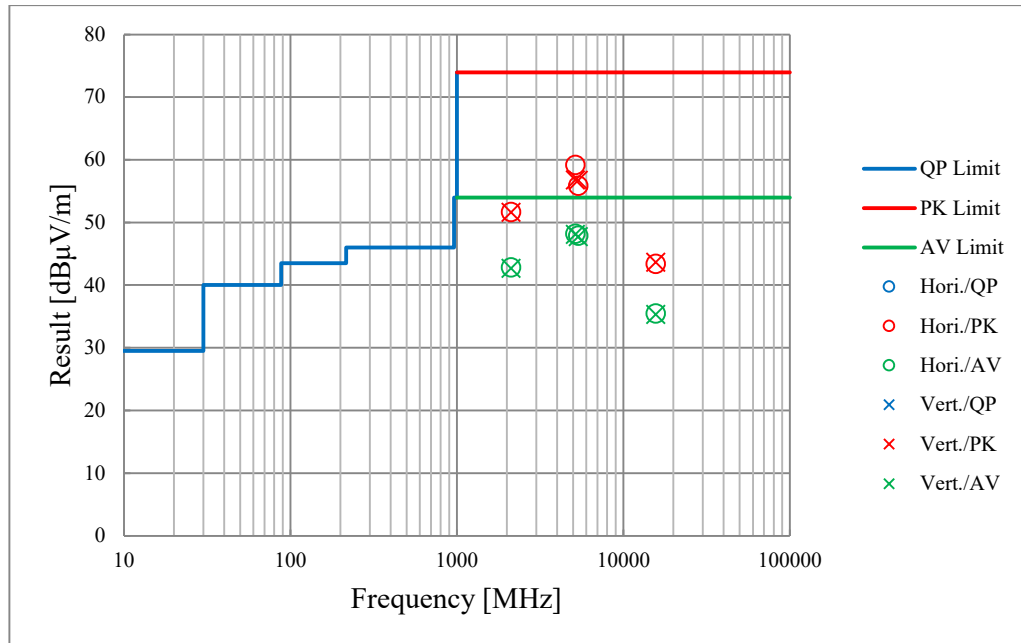


* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

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

Radiated Spurious Emission
(Plot data, Worst case)

Report No.	13408125M-C-R1			
Test place	Kashima EMC Lab.			
Semi Anechoic Chamber	No.11	No.11	No.11	No.11
Date	August 18, 2020	August 18, 2020	August 20, 2020	August 25, 2020
Temperature / Humidity	24 deg. C / 59 % RH	24 deg. C / 59 % RH	23 deg. C / 49 % RH	24 deg. C / 58 % RH
Engineer	Kazuhiro Ando	Kazuhiro Ando	Hiromitsu Tanabe	Hiromitsu Tanabe
	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -40 GHz)
Mode	Tx 11ac-80 MIMO 5210MHz			
EUT	Lo type			



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

Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 18, 2020
Temperature / Humidity 22 deg. C / 48 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-20 MIMO 5180 MHz with 11g 2437 MHz
EUT Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.92	32.51	15.00	45.38	2.21	55.26	73.9	18.6	133	339	VBW:10 kHz
Hori.	5150.000	AV	41.68	32.51	15.00	45.38	2.21	46.02	53.9	7.8	133	339	
Vert.	5150.000	PK	51.69	32.51	15.00	45.38	2.21	56.03	73.9	17.8	171	331	VBW:10 kHz
Vert.	5150.000	AV	42.17	32.51	15.00	45.38	2.21	46.51	53.9	7.3	171	331	

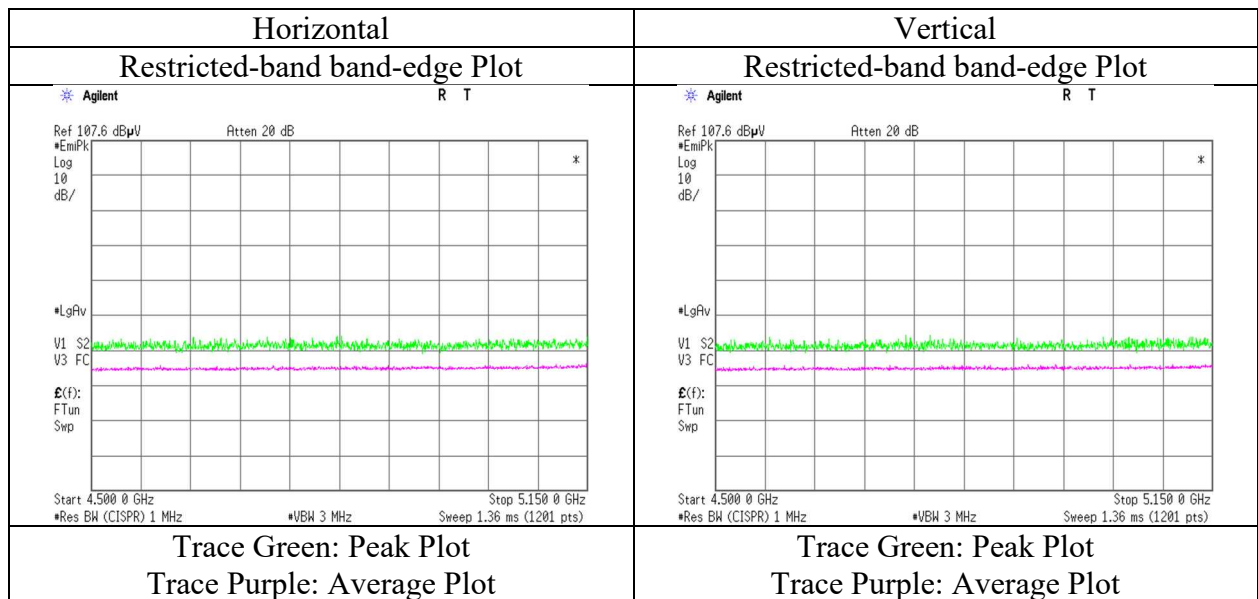
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87 \text{ m} / 3.0 \text{ m}) = 2.21 \text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.54 \text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5 \text{ m} / 3.0 \text{ m}) = -15.56 \text{ dB}$



* 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

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 18, 2020
Temperature / Humidity	22 deg. C / 48 % RH
	(1 GHz - 6.4 GHz)
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-20 MIMO 5240 MHz with 11g 2437 MHz
EUT	Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.26	32.96	15.11	45.45	2.21	55.09	73.9	18.8	138	341	VBW:10 kHz
Hori.	5350.000	AV	42.20	32.96	15.11	45.45	2.21	47.03	53.9	6.8	138	341	
Vert.	5350.000	PK	50.32	32.96	15.11	45.45	2.21	55.15	73.9	18.7	221	327	VBW:10 kHz
Vert.	5350.000	AV	41.58	32.96	15.11	45.45	2.21	46.41	53.9	7.4	221	327	

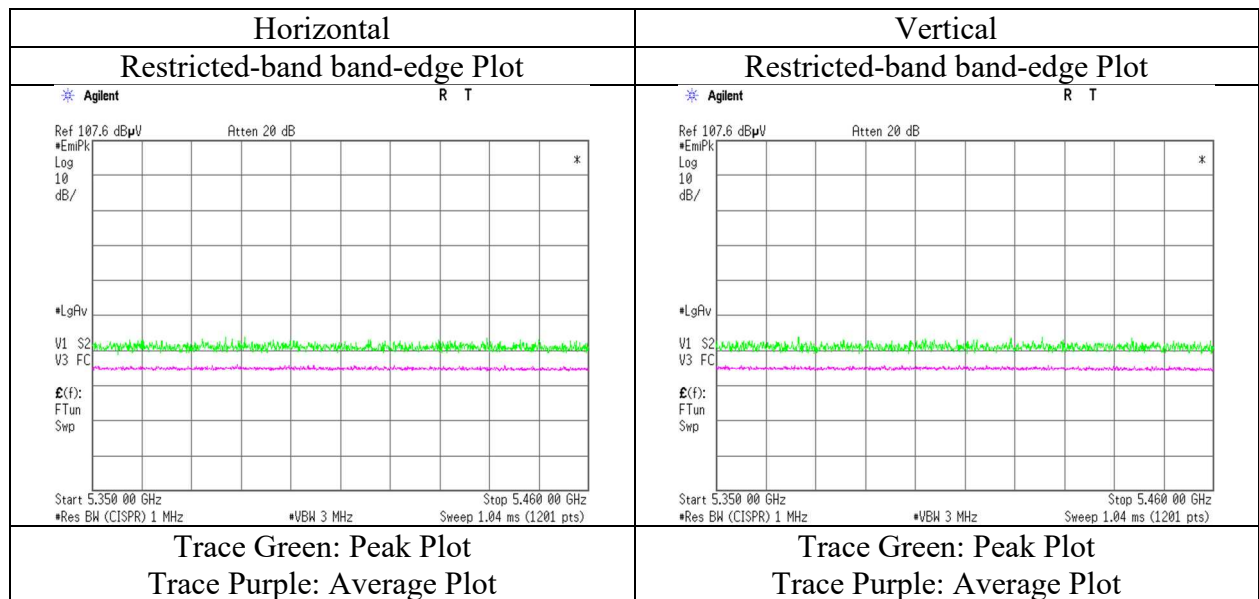
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$



* 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

Report No.	13408125M-C-R1				
Test place	Kashima EMC Lab.				
Semi Anechoic Chamber	No.6	No.11	No.11	No.11	No.11
Date	August 17, 2020	August 18, 2020	August 20, 2020	August 20, 2020	July 28, 2020
Temperature / Humidity	24 deg. C / 56 % RH	22 deg. C / 48 % RH	23 deg. C / 49 % RH	23 deg. C / 49 % RH	23 deg. C / 63 % RH
Engineer	Kazuhiro Ando	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe
	(30 MHz -1000 MHz)	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -40 GHz)
Mode	Tx 11ac-20 MIMO 5745 MHz with 11g 2437 MHz				
EUT	Lo type				

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	245.757	QP	48.01	11.72	7.73	32.34	0.00	35.12	46.0	10.8	139	274	
Hori.	248.375	QP	44.98	11.77	7.75	32.34	0.00	32.16	46.0	13.8	154	282	
Hori.	253.397	QP	47.36	11.89	7.78	32.34	0.00	34.69	46.0	11.3	132	280	
Hori.	718.126	QP	33.11	21.00	10.05	32.13	0.00	32.03	46.0	13.9	150	0	
Hori.	874.997	QP	33.75	22.98	10.61	31.61	0.00	35.73	46.0	10.2	124	157	
Hori.	999.996	QP	35.00	24.09	11.02	30.53	0.00	39.58	53.9	14.3	100	141	
Hori.	2111.600	PK	51.34	28.92	13.12	43.87	2.21	51.72	73.9	22.1	128	195	
Hori.	11490.000	PK	48.17	38.66	7.84	42.79	-9.54	42.34	73.9	31.5	150	0	
Hori.	2111.600	AV	43.05	28.92	13.12	43.87	2.21	43.43	53.9	10.4	128	195	VBW:10 Hz
Hori.	11490.000	AV	38.71	38.66	7.84	42.79	-9.54	32.88	53.9	21.0	150	0	VBW:10 kHz
Vert.	245.759	QP	40.00	11.72	7.73	32.34	0.00	27.11	46.0	18.8	100	36	
Vert.	874.997	QP	31.09	22.98	10.61	31.61	0.00	33.07	46.0	12.9	100	293	
Vert.	999.996	QP	33.42	24.09	11.02	30.53	0.00	38.00	53.9	15.9	117	164	
Vert.	2111.600	PK	51.08	28.92	13.12	43.87	2.21	51.46	73.9	22.4	156	233	
Vert.	11490.000	PK	47.74	38.66	7.84	42.79	-9.54	41.91	73.9	31.9	150	0	
Vert.	2111.600	AV	40.67	28.92	13.12	43.87	2.21	41.05	53.9	12.8	156	233	VBW:10 Hz
Vert.	11490.000	AV	38.69	38.66	7.84	42.79	-9.54	32.86	53.9	21.0	150	0	VBW:10 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.60	33.49	15.27	45.47	2.21	56.10	-39.12	-27.0	12.1	100	345	
Hori.	5700.000	PK	50.40	33.61	15.30	45.47	2.21	56.05	-39.17	10.0	49.1	100	345	
Hori.	5720.000	PK	54.64	33.67	15.31	45.46	2.21	60.37	-34.85	15.6	50.4	100	345	
Hori.	5725.000	PK	55.48	33.68	15.31	45.46	2.21	61.22	-34.00	27.0	61.0	100	345	
Hori.	17235.000	PK	50.68	41.09	9.83	44.82	-9.54	47.24	-47.98	-27.0	20.9	150	0	
Vert.	5650.000	PK	50.28	33.49	15.27	45.47	2.21	55.78	-39.44	-27.0	12.4	171	338	
Vert.	5700.000	PK	51.17	33.61	15.30	45.47	2.21	56.82	-38.40	10.0	48.4	171	338	
Vert.	5720.000	PK	53.94	33.67	15.31	45.46	2.21	59.67	-35.55	15.6	51.1	171	338	
Vert.	5725.000	PK	55.23	33.68	15.31	45.46	2.21	60.97	-34.25	27.0	61.2	171	338	
Vert.	17235.000	PK	50.05	41.09	9.83	44.82	-9.54	46.61	-48.61	-27.0	21.6	150	0	

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$

UL Japan, Inc.

Kashima EMC Lab.

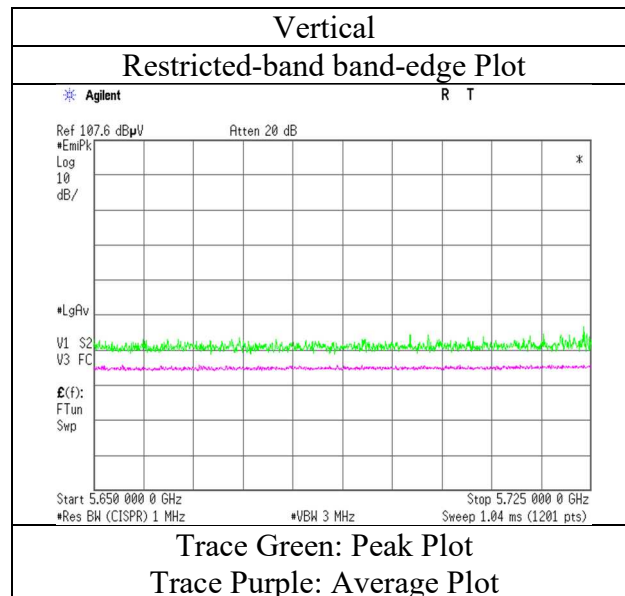
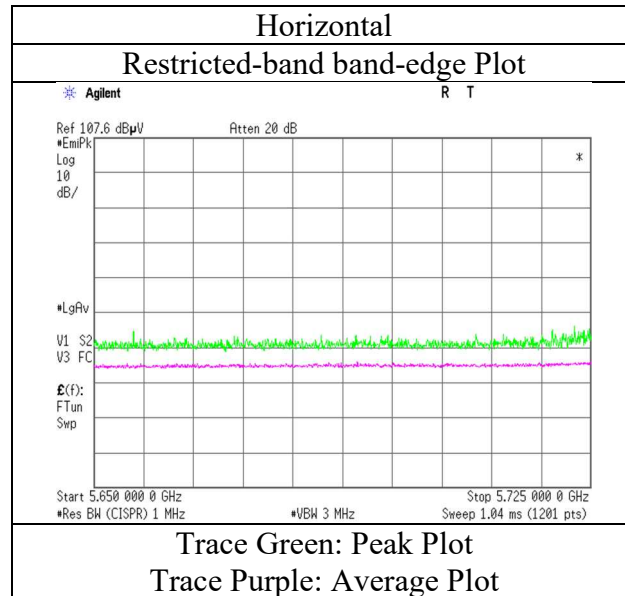
1614, Mushihata, Katori-shi, Chiba-ken, 289-0341 Japan

Telephone : +81 478 88 6500

Facsimile : +81 478 82 3373

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 18, 2020
Temperature / Humidity	22 deg. C / 48 % RH
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-20 MIMO 5745 MHz with 11g 2437 MHz
EUT	Lo type



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

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

UL Japan, Inc.

Kashima EMC Lab.

1614, Mushihata, Katori-shi, Chiba-ken, 289-0341 Japan

Telephone : +81 478 88 6500

Facsimile : +81 478 82 3373

Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 18, 2020
Temperature / Humidity 22 deg. C / 48 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-20 MIMO 5825 MHz with 11g 2437 MHz
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	50.81	34.21	15.37	45.39	2.21	57.21	-38.01	27.0	65.0	210	344	
Hori.	5855.000	PK	50.32	34.24	15.37	45.39	2.21	56.75	-38.47	15.6	54.0	210	344	
Hori.	5875.000	PK	51.13	34.37	15.39	45.38	2.21	57.72	-37.50	10.0	47.5	210	344	
Hori.	5925.000	PK	51.35	34.67	15.41	45.33	2.21	58.31	-36.91	-27.0	9.9	210	344	
Vert.	5850.000	PK	49.82	34.21	15.37	45.39	2.21	56.22	-39.00	27.0	66.0	157	338	
Vert.	5855.000	PK	49.67	34.24	15.37	45.39	2.21	56.10	-39.12	15.6	54.7	157	338	
Vert.	5875.000	PK	49.92	34.37	15.39	45.38	2.21	56.51	-38.71	10.0	48.7	157	338	
Vert.	5925.000	PK	50.63	34.67	15.41	45.33	2.21	57.59	-37.63	-27.0	10.6	157	338	

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

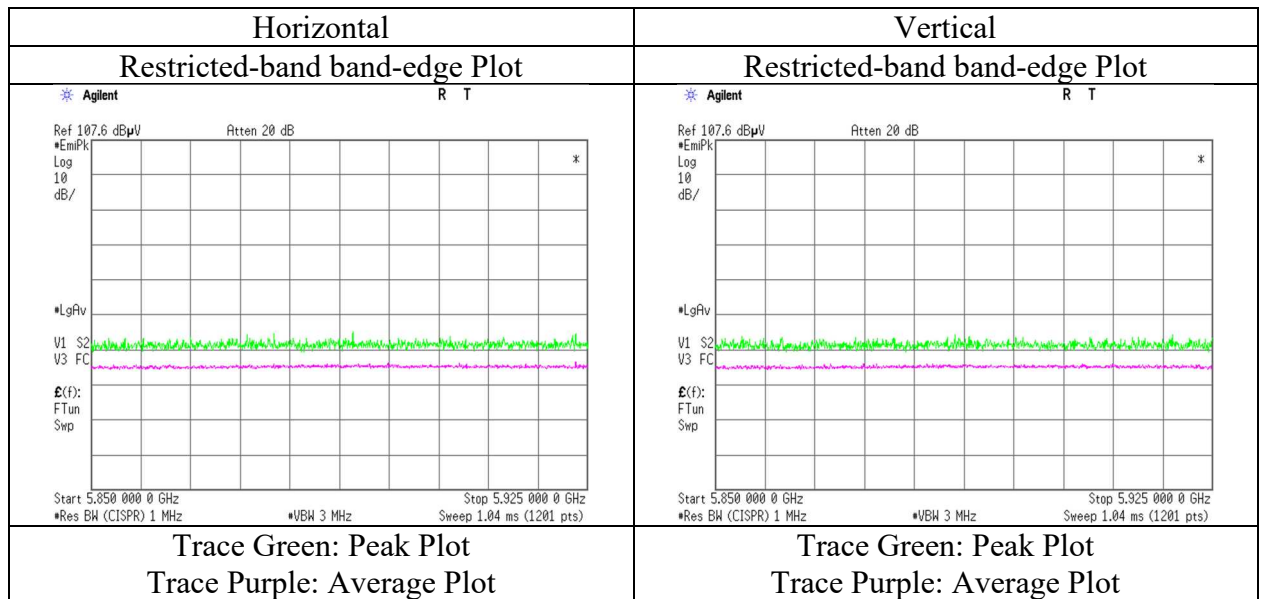
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) * 10 ^ 3)

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

Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB



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

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

UL Japan, Inc.

Kashima EMC Lab.

1614, Mushiata, Katori-shi, Chiba-ken, 289-0341 Japan

Telephone : +81 478 88 6500

Facsimile : +81 478 82 3373

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 18, 2020
Temperature / Humidity	22 deg. C / 48 % RH
	(1 GHz - 6.4 GHz)
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-40 MIMO 5190 MHz with 11g 2437 MHz
EUT	Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.79	32.51	15.00	45.38	2.21	56.13	73.9	17.7	105	338	VBW:13 kHz
Hori.	5150.000	AV	42.55	32.51	15.00	45.38	2.21	46.89	53.9	7.0	105	338	
Vert.	5150.000	PK	51.08	32.51	15.00	45.38	2.21	55.42	73.9	18.4	197	327	VBW:13 kHz
Vert.	5150.000	AV	42.44	32.51	15.00	45.38	2.21	46.78	53.9	7.1	197	327	

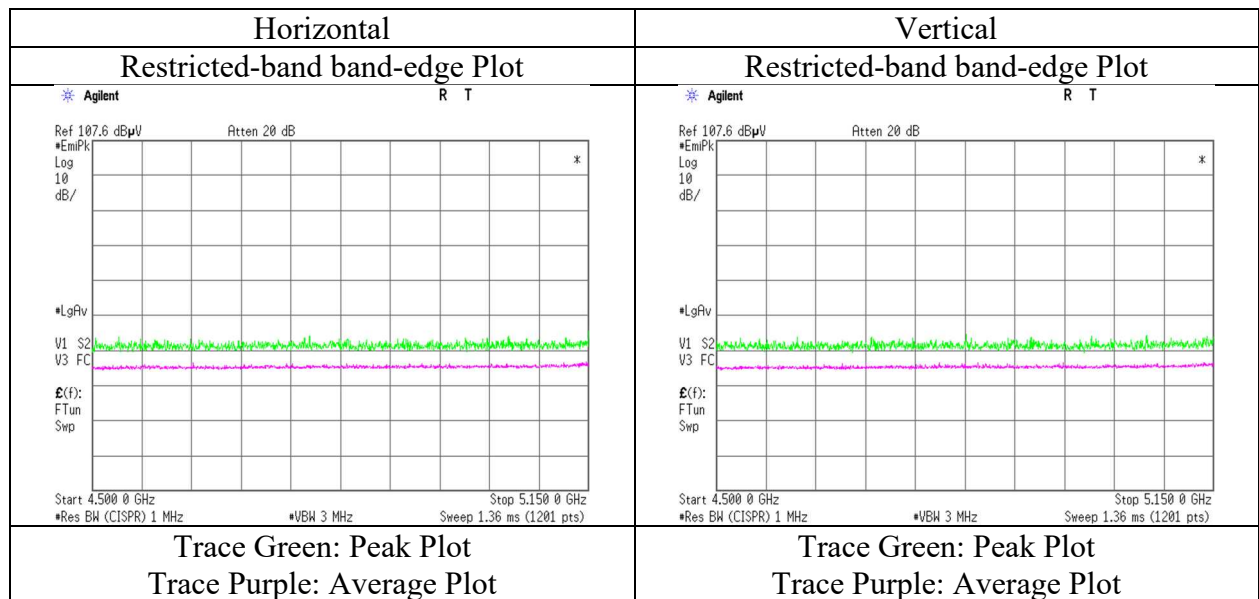
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$



* 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

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 18, 2020
Temperature / Humidity	22 deg. C / 48 % RH
	(1 GHz - 6.4 GHz)
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-40 MIMO 5230 MHz with 11g 2437 MHz
EUT	Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.42	32.96	15.11	45.45	2.21	55.25	73.9	18.6	138	342	VBW:13 kHz
Hori.	5350.000	AV	42.05	32.96	15.11	45.45	2.21	46.88	53.9	7.0	138	342	
Vert.	5350.000	PK	50.78	32.96	15.11	45.45	2.21	55.61	73.9	18.2	216	326	VBW:13 kHz
Vert.	5350.000	AV	41.94	32.96	15.11	45.45	2.21	46.77	53.9	7.1	216	326	

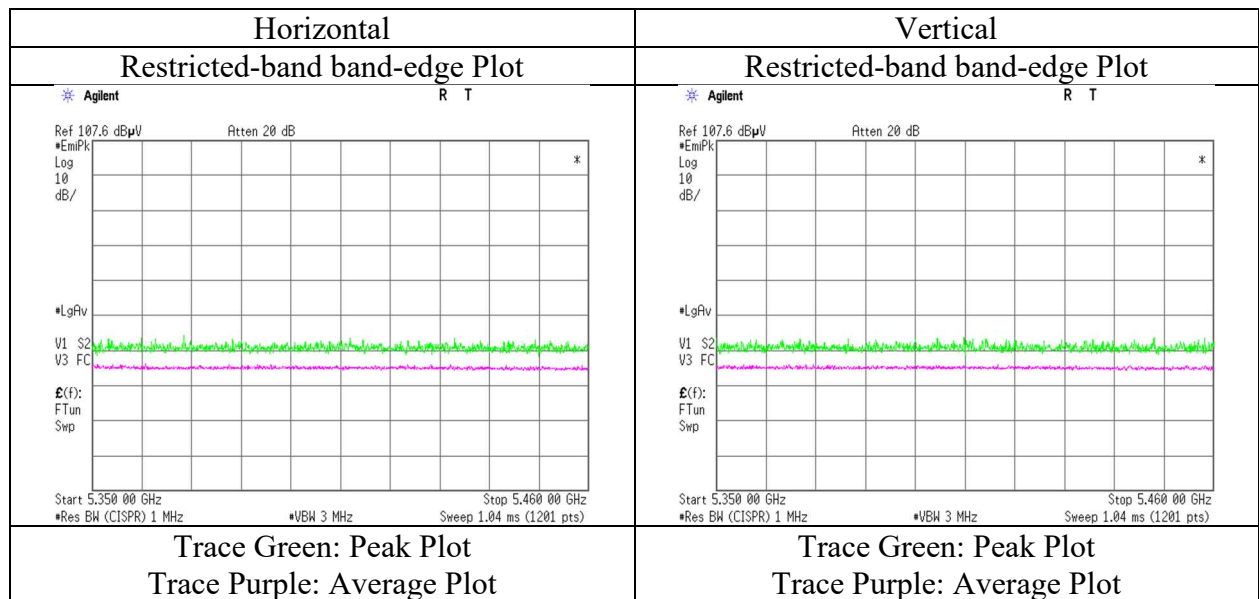
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$



* 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

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 18, 2020
Temperature / Humidity 22 deg. C / 48 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-40 MIMO 5755 MHz with 11g 2437 MHz
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	51.07	33.49	15.27	45.47	2.21	56.57	-38.65	-27.0	11.6	191	341	
Hori.	5700.000	PK	51.81	33.61	15.30	45.47	2.21	57.46	-37.76	10.0	47.7	191	341	
Hori.	5720.000	PK	54.94	33.67	15.31	45.46	2.21	60.67	-34.55	15.6	50.1	191	341	
Hori.	5725.000	PK	59.14	33.68	15.31	45.46	2.21	64.88	-30.34	27.0	57.3	191	341	
Vert.	5650.000	PK	49.81	33.49	15.27	45.47	2.21	55.31	-39.91	-27.0	12.9	160	339	
Vert.	5700.000	PK	51.63	33.61	15.30	45.47	2.21	57.28	-37.94	10.0	47.9	160	339	
Vert.	5720.000	PK	51.94	33.67	15.31	45.46	2.21	57.67	-37.55	15.6	53.1	160	339	
Vert.	5725.000	PK	54.39	33.68	15.31	45.46	2.21	60.13	-35.09	27.0	62.0	160	339	

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

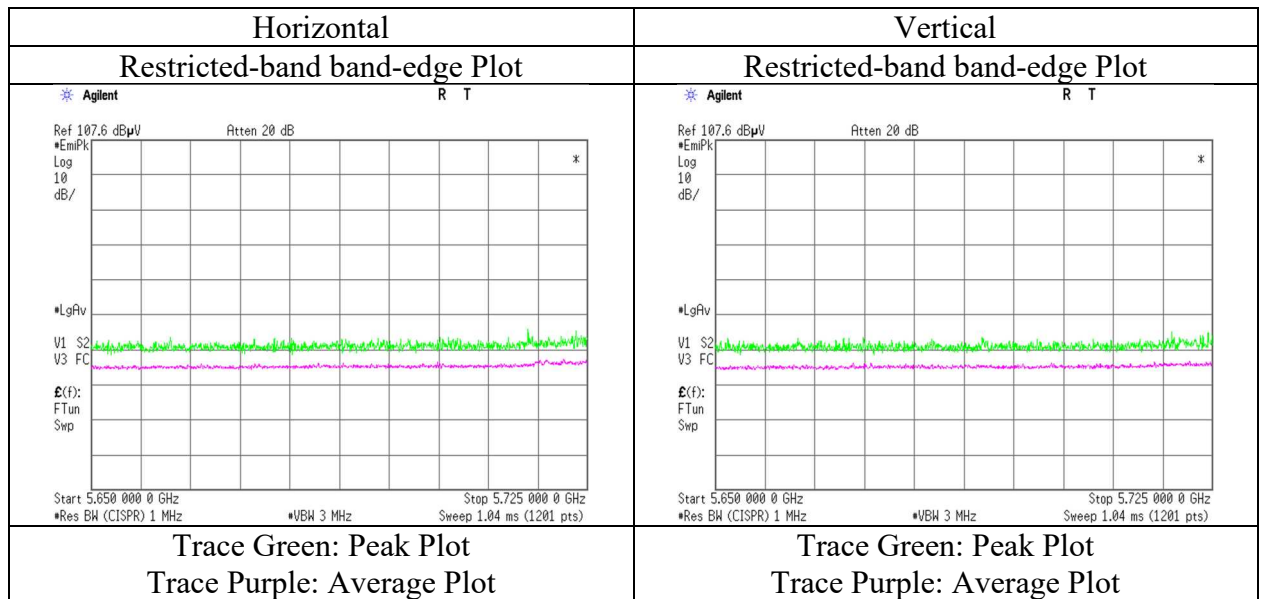
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

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

Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB



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

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

UL Japan, Inc.

Kashima EMC Lab.

1614, Mushiata, Katori-shi, Chiba-ken, 289-0341 Japan

Telephone : +81 478 88 6500

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Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 18, 2020
Temperature / Humidity 22 deg. C / 48 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-40 MIMO 5795 MHz with 11g 2437 MHz
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	51.16	34.21	15.37	45.39	2.21	57.56	-37.66	27.0	64.6	171	32	
Hori.	5855.000	PK	50.86	34.24	15.37	45.39	2.21	57.29	-37.93	15.6	53.5	171	32	
Hori.	5875.000	PK	52.56	34.37	15.39	45.38	2.21	59.15	-36.07	10.0	46.0	171	32	
Hori.	5925.000	PK	51.35	34.67	15.41	45.33	2.21	58.31	-36.91	-27.0	9.9	171	32	
Vert.	5850.000	PK	49.91	34.21	15.37	45.39	2.21	56.31	-38.91	27.0	65.9	153	340	
Vert.	5855.000	PK	50.87	34.24	15.37	45.39	2.21	57.30	-37.92	15.6	53.5	153	340	
Vert.	5875.000	PK	49.93	34.37	15.39	45.38	2.21	56.52	-38.70	10.0	48.7	153	340	
Vert.	5925.000	PK	51.84	34.67	15.41	45.33	2.21	58.80	-36.42	-27.0	9.4	153	340	

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

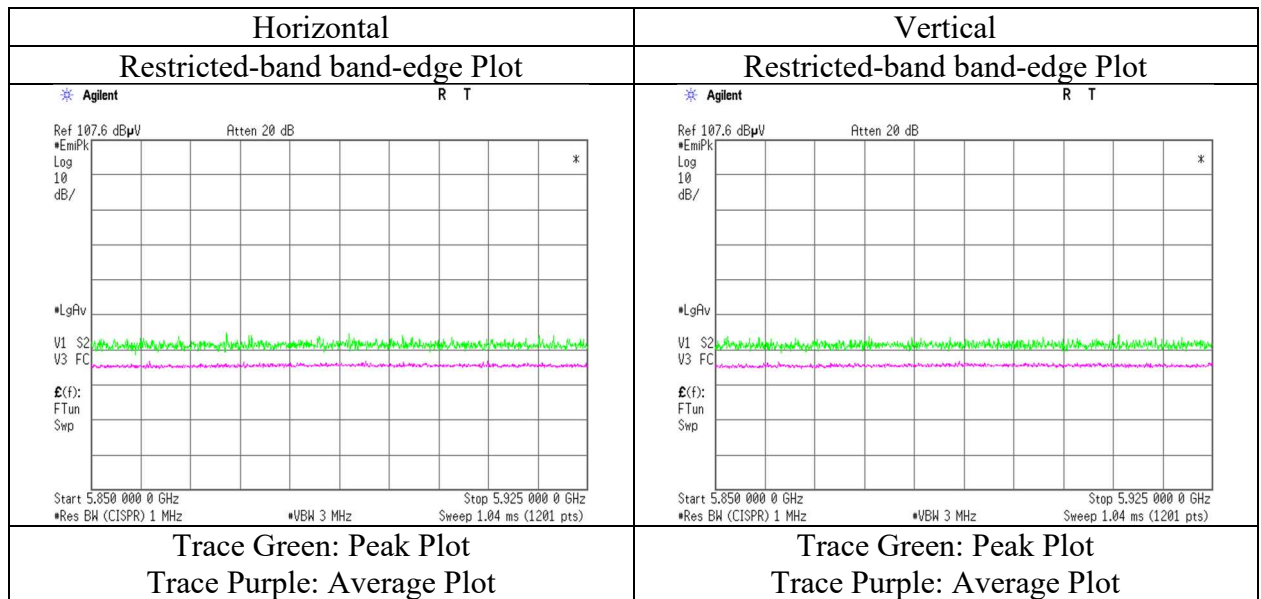
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) * 10 ^ 3)

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

Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB



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

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

UL Japan, Inc.

Kashima EMC Lab.

1614, Mushiata, Katori-shi, Chiba-ken, 289-0341 Japan

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Facsimile : +81 478 82 3373

Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 18, 2020
Temperature / Humidity 22 deg. C / 48 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-80 MIMO 5210 MHz with 11g 2437 MHz
EUT Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.38	32.51	15.00	45.38	2.21	55.72	73.9	18.1	100	343	
Hori.	5350.000	PK	51.28	32.96	15.11	45.45	2.21	56.11	73.9	17.7	100	343	
Hori.	5150.000	AV	42.73	32.51	15.00	45.38	2.21	47.07	53.9	6.8	100	343	VBW:18 kHz
Hori.	5350.000	AV	41.93	32.96	15.11	45.45	2.21	46.76	53.9	7.1	100	343	VBW:18 kHz
Vert.	5150.000	PK	51.61	32.51	15.00	45.38	2.21	55.95	73.9	17.9	186	328	
Vert.	5350.000	PK	50.76	32.96	15.11	45.45	2.21	55.59	73.9	18.3	186	328	
Vert.	5150.000	AV	41.88	32.51	15.00	45.38	2.21	46.22	53.9	7.6	186	328	VBW:18 kHz
Vert.	5350.000	AV	41.48	32.96	15.11	45.45	2.21	46.31	53.9	7.5	186	328	VBW:18 kHz

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

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

Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB

UL Japan, Inc.

Kashima EMC Lab.

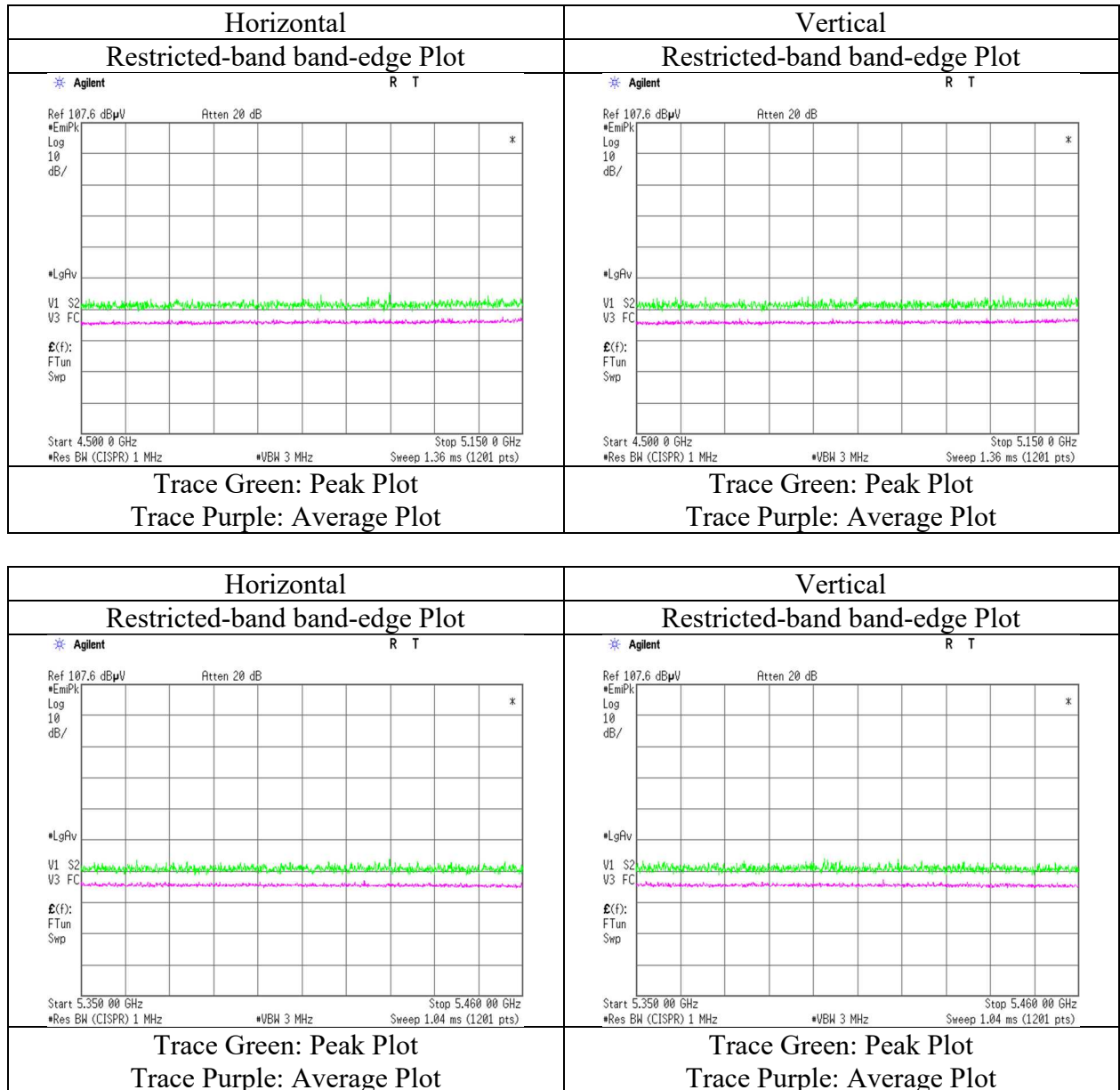
1614, Mushihata, Katori-shi, Chiba-ken, 289-0341 Japan

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Facsimile : +81 478 82 3373

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 18, 2020
Temperature / Humidity	22 deg. C / 48 % RH
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-80 MIMO 5210 MHz with 11g 2437 MHz
EUT	Lo type



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

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

UL Japan, Inc.

Kashima EMC Lab.

1614, Mushiata, Katori-shi, Chiba-ken, 289-0341 Japan

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Facsimile : +81 478 82 3373

Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 18, 2020
Temperature / Humidity 22 deg. C / 48 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-80 MIMO 5775 MHz with 11g 2437 MHz
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	51.45	33.49	15.27	45.47	2.21	56.95	-38.27	-27.0	11.2	153	31	
Hori.	5700.000	PK	52.74	33.61	15.30	45.47	2.21	58.39	-36.83	10.0	46.8	153	31	
Hori.	5720.000	PK	53.67	33.67	15.31	45.46	2.21	59.40	-35.82	15.6	51.4	153	31	
Hori.	5725.000	PK	53.41	33.68	15.31	45.46	2.21	59.15	-36.07	27.0	63.0	153	31	
Hori.	5850.000	PK	50.73	34.21	15.37	45.39	2.21	57.13	-38.09	27.0	65.0	153	31	
Hori.	5855.000	PK	51.74	34.24	15.37	45.39	2.21	58.17	-37.05	15.6	52.6	153	31	
Hori.	5875.000	PK	50.28	34.37	15.39	45.38	2.21	56.87	-38.35	10.0	48.3	153	31	
Hori.	5925.000	PK	52.02	34.67	15.41	45.33	2.21	58.98	-36.24	-27.0	9.2	153	31	
Vert.	5650.000	PK	51.66	33.49	15.27	45.47	2.21	57.16	-38.06	-27.0	11.0	154	340	
Vert.	5700.000	PK	52.12	33.61	15.30	45.47	2.21	57.77	-37.45	10.0	47.4	154	340	
Vert.	5720.000	PK	53.71	33.67	15.31	45.46	2.21	59.44	-35.78	15.6	51.3	154	340	
Vert.	5725.000	PK	52.83	33.68	15.31	45.46	2.21	58.57	-36.65	27.0	63.6	154	340	
Vert.	5850.000	PK	51.29	34.21	15.37	45.39	2.21	57.69	-37.53	27.0	64.5	154	340	
Vert.	5855.000	PK	51.34	34.24	15.37	45.39	2.21	57.77	-37.45	15.6	53.0	154	340	
Vert.	5875.000	PK	50.85	34.37	15.39	45.38	2.21	57.44	-37.78	10.0	47.7	154	340	
Vert.	5925.000	PK	51.29	34.67	15.41	45.33	2.21	58.25	-36.97	-27.0	9.9	154	340	

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

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

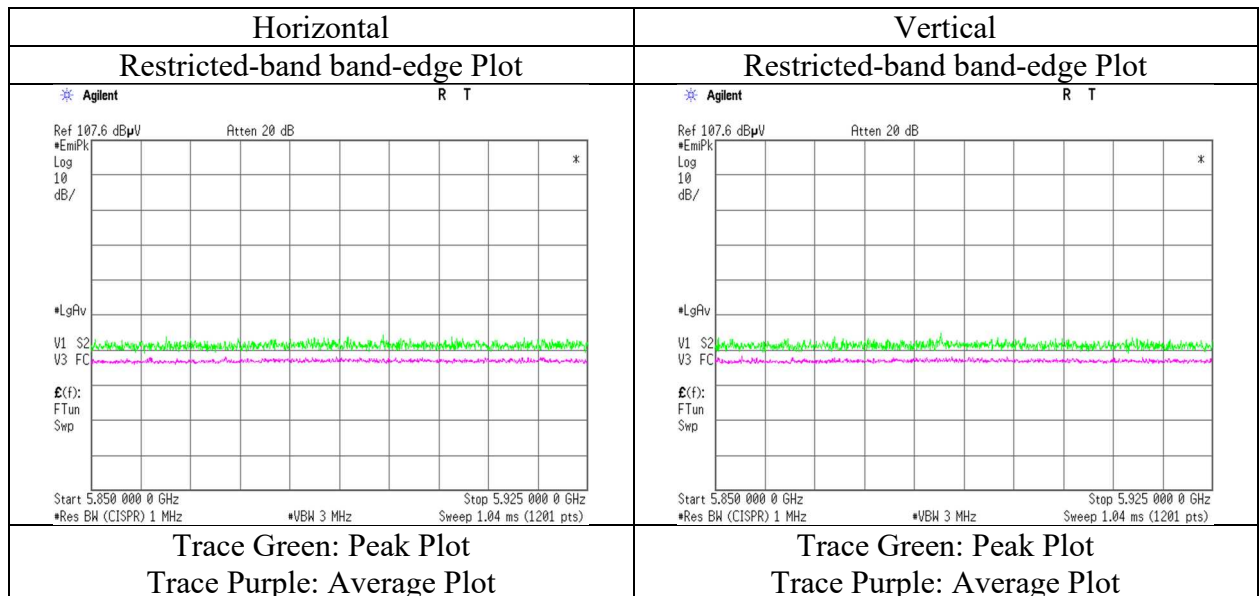
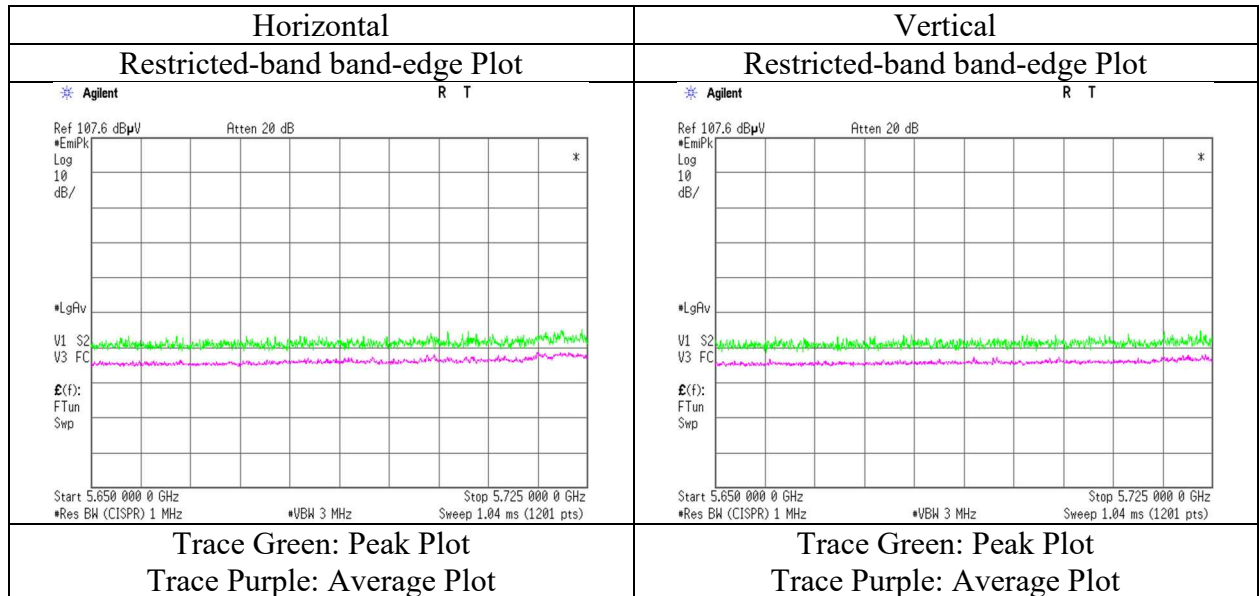
Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 18, 2020
Temperature / Humidity	22 deg. C / 48 % RH
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-80 MIMO 5775 MHz with 11g 2437 MHz
EUT	Lo type



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

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

UL Japan, Inc.

Kashima EMC Lab.

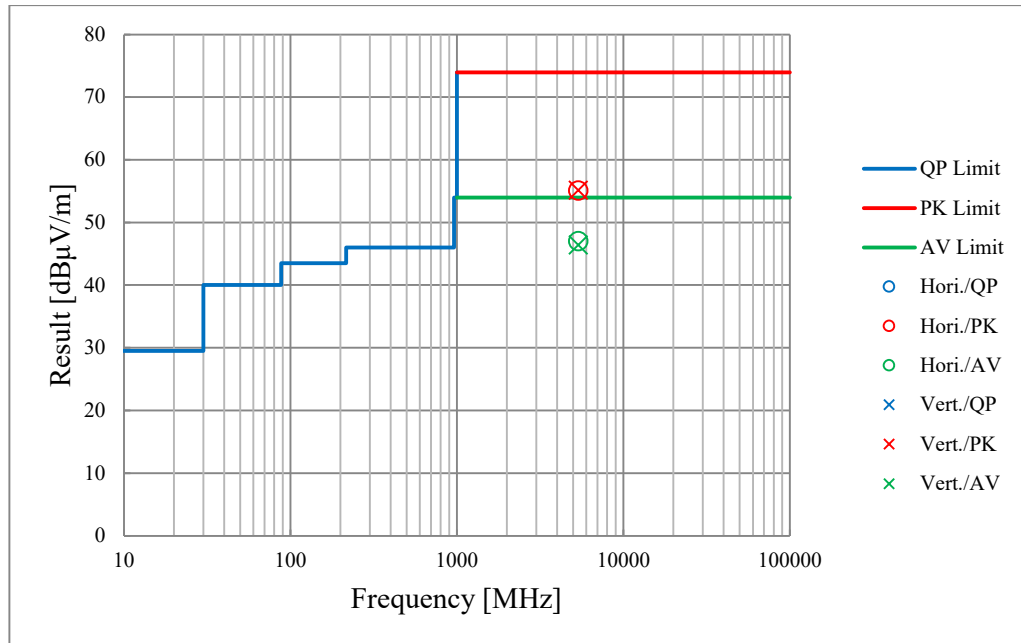
1614, Mushiata, Katori-shi, Chiba-ken, 289-0341 Japan

Telephone : +81 478 88 6500

Facsimile : +81 478 82 3373

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

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 18, 2020
Temperature / Humidity 22 deg. C / 48 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-20 MIMO 5240 MHz with 11g 2437 MHz
EUT Lo type



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

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 19, 2020
Temperature / Humidity	23 deg. C / 53 % RH
	(1 GHz - 6.4 GHz)
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-20 MIMO 5180 MHz with BT Hopping On DH5
EUT	Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.98	32.51	15.00	45.38	2.21	55.32	73.9	18.5	126	345	VBW:10 kHz
Hori.	5150.000	AV	41.97	32.51	15.00	45.38	2.21	46.31	53.9	7.5	126	345	
Vert.	5150.000	PK	52.25	32.51	15.00	45.38	2.21	56.59	73.9	17.3	105	310	VBW:10 kHz
Vert.	5150.000	AV	42.09	32.51	15.00	45.38	2.21	46.43	53.9	7.4	105	310	

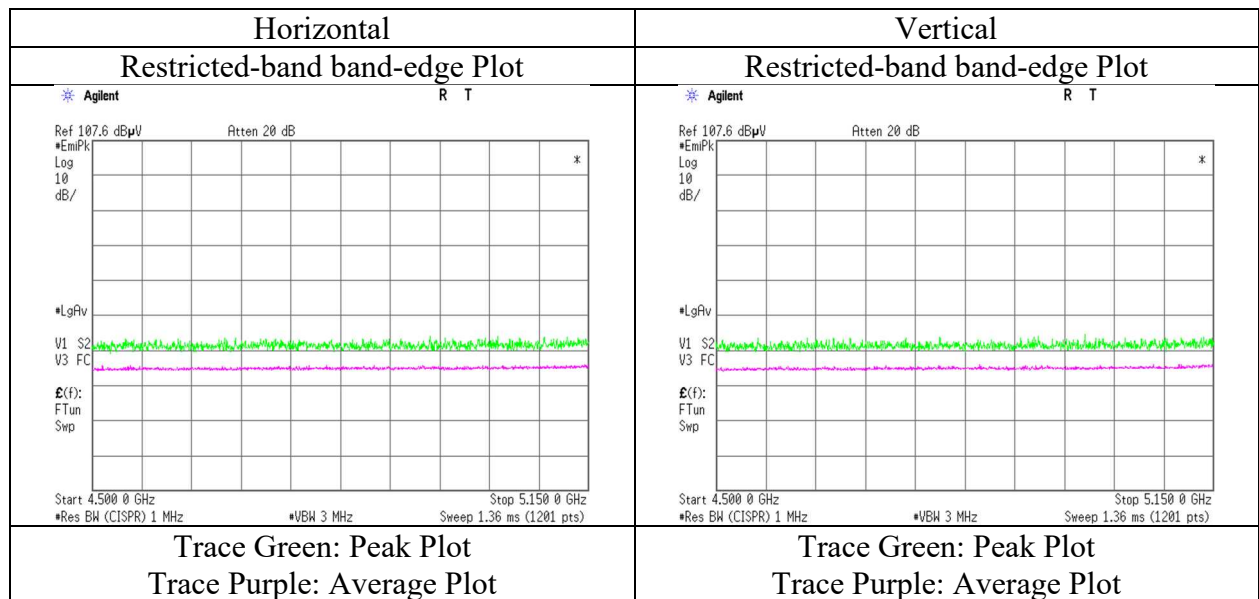
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$



* 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

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-20 MIMO 5240 MHz with BT Hopping On DH5
EUT Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.31	32.96	15.11	45.45	2.21	55.14	73.9	18.7	149	345	VBW:10 kHz
Hori.	5350.000	AV	41.37	32.96	15.11	45.45	2.21	46.20	53.9	7.7	149	345	
Vert.	5350.000	PK	51.52	32.96	15.11	45.45	2.21	56.35	73.9	17.5	202	319	VBW:10 kHz
Vert.	5350.000	AV	41.53	32.96	15.11	45.45	2.21	46.36	53.9	7.5	202	319	

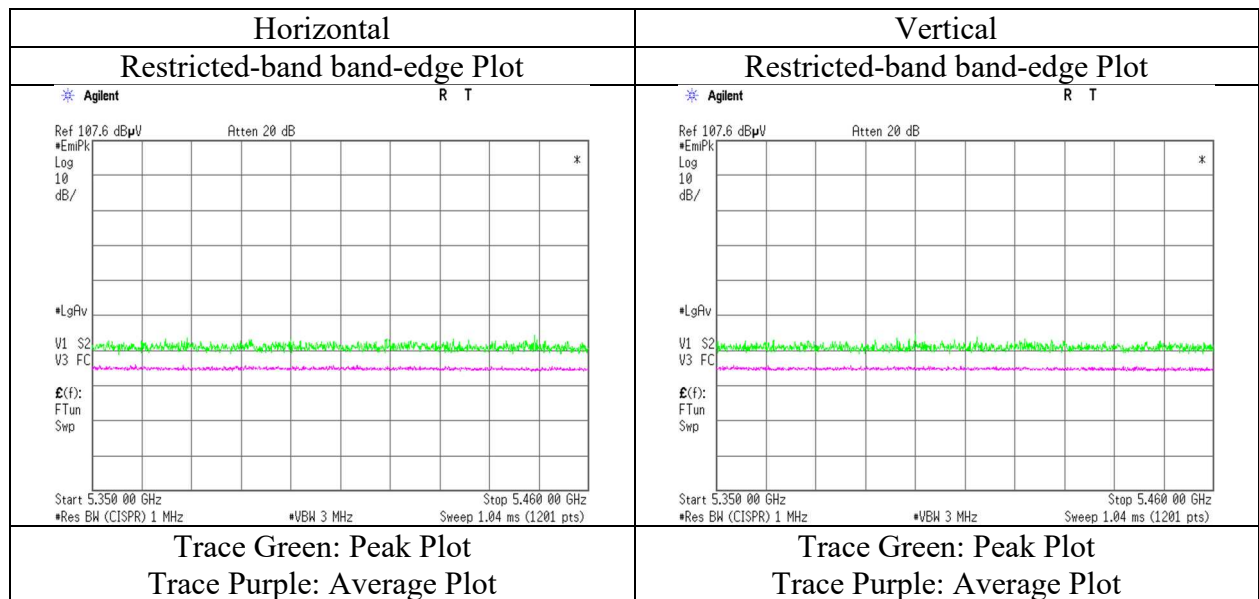
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$



* 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

Report No.	13408125M-C-R1				
Test place	Kashima EMC Lab.				
Semi Anechoic Chamber	No.6	No.11	No.11	No.11	No.11
Date	August 17, 2020	August 19, 2020	August 20, 2020	August 20, 2020	July 28, 2020
Temperature / Humidity	24 deg. C / 56 % RH	23 deg. C / 53 % RH	23 deg. C / 49 % RH	23 deg. C / 49 % RH	23 deg. C / 63 % RH
Engineer	Kazuhiro Ando	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe	Hiromitsu Tanabe
	(30 MHz -1000 MHz)	(1 GHz -6.4 GHz)	(6.4 GHz -10 GHz)	(10 GHz -18 GHz)	(18 GHz -40 GHz)
Mode	Tx 11ac-20 MIMO 5745 MHz with BT Hopping On DH5				
EUT	Lo type				

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	245.757	QP	47.78	11.72	7.73	32.34	0.00	34.89	46.0	11.1	159	279	
Hori.	248.375	QP	44.52	11.77	7.75	32.34	0.00	31.70	46.0	14.3	135	280	
Hori.	253.162	QP	47.68	11.89	7.78	32.34	0.00	35.01	46.0	10.9	122	283	
Hori.	718.126	QP	34.30	21.00	10.05	32.13	0.00	33.22	46.0	12.7	146	354	
Hori.	874.997	QP	34.16	22.98	10.61	31.61	0.00	36.14	46.0	9.8	122	150	
Hori.	999.996	QP	33.56	24.09	11.02	30.53	0.00	38.14	53.9	15.7	168	141	
Hori.	2111.450	PK	52.42	28.92	13.12	43.87	2.21	52.80	73.9	21.1	133	151	
Hori.	11490.000	PK	48.03	38.66	7.84	42.79	-9.54	42.20	73.9	31.7	150	0	
Hori.	2111.450	AV	42.81	28.92	13.12	43.87	2.21	43.19	53.9	10.7	133	151	VBW:10 Hz
Hori.	11490.000	AV	38.69	38.66	7.84	42.79	-9.54	32.86	53.9	21.0	150	0	VBW:10 kHz
Vert.	245.759	QP	39.93	11.72	7.73	32.34	0.00	27.04	46.0	18.9	100	36	
Vert.	874.997	QP	31.10	22.98	10.61	31.61	0.00	33.08	46.0	12.9	100	291	
Vert.	999.996	QP	33.45	24.09	11.02	30.53	0.00	38.03	53.9	15.8	108	162	
Vert.	2111.450	PK	52.38	28.92	13.12	43.87	2.21	52.76	73.9	21.1	162	46	
Vert.	11490.000	PK	48.70	38.66	7.84	42.79	-9.54	42.87	73.9	31.0	150	0	
Vert.	2111.450	AV	44.23	28.92	13.12	43.87	2.21	44.61	53.9	9.2	162	46	VBW:10 Hz
Vert.	11490.000	AV	38.84	38.66	7.84	42.79	-9.54	33.01	53.9	20.8	150	0	VBW:10 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	51.08	33.49	15.27	45.47	2.21	56.58	-38.64	-27.0	11.6	187	346	
Hori.	5700.000	PK	50.61	33.61	15.30	45.47	2.21	56.26	-38.96	10.0	48.9	187	346	
Hori.	5720.000	PK	53.45	33.67	15.31	45.46	2.21	59.18	-36.04	15.6	51.6	187	346	
Hori.	5725.000	PK	57.29	33.68	15.31	45.46	2.21	63.03	-32.19	27.0	59.1	187	346	
Hori.	17235.000	PK	49.87	41.09	9.83	44.82	-9.54	46.43	-48.79	-27.0	21.7	150	0	
Vert.	5650.000	PK	51.48	33.49	15.27	45.47	2.21	56.98	-38.24	-27.0	11.2	204	340	
Vert.	5700.000	PK	51.24	33.61	15.30	45.47	2.21	56.89	-38.33	10.0	48.3	204	340	
Vert.	5720.000	PK	52.57	33.67	15.31	45.46	2.21	58.30	-36.92	15.6	52.5	204	340	
Vert.	5725.000	PK	55.99	33.68	15.31	45.46	2.21	61.73	-33.49	27.0	60.4	204	340	
Vert.	17235.000	PK	49.63	41.09	9.83	44.82	-9.54	46.19	-49.03	-27.0	22.0	150	0	

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

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$

UL Japan, Inc.

Kashima EMC Lab.

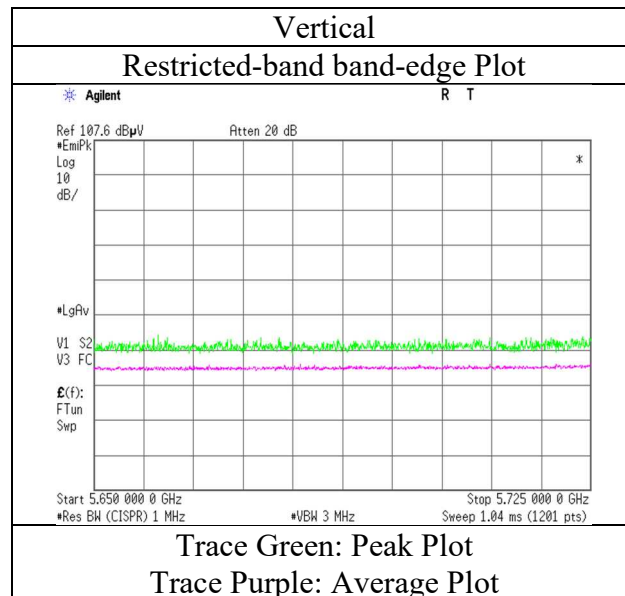
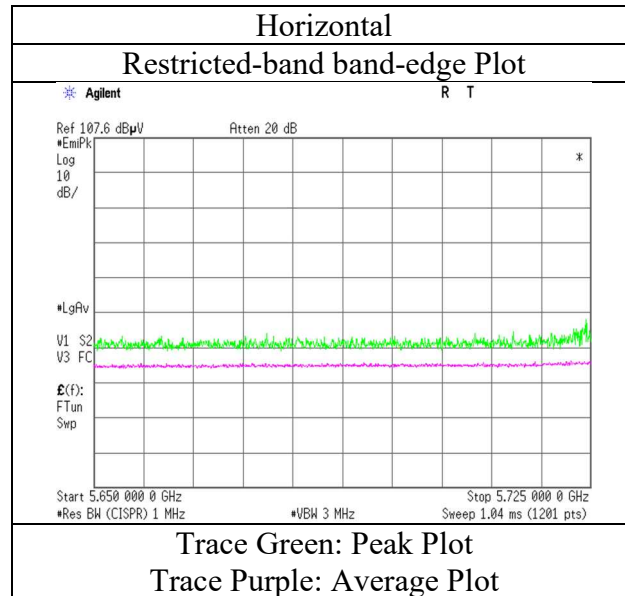
1614, Mushihata, Katori-shi, Chiba-ken, 289-0341 Japan

Telephone : +81 478 88 6500

Facsimile : +81 478 82 3373

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 19, 2020
Temperature / Humidity	23 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-20 MIMO 5745 MHz with BT Hopping On DH5
EUT	Lo type



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

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

UL Japan, Inc.

Kashima EMC Lab.

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Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-20 MIMO 5825 MHz with BT Hopping On DHS
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	50.50	34.21	15.37	45.39	2.21	56.90	-38.32	27.0	65.3	213	345	
Hori.	5855.000	PK	50.47	34.24	15.37	45.39	2.21	56.90	-38.32	15.6	53.9	213	345	
Hori.	5875.000	PK	49.38	34.37	15.39	45.38	2.21	55.97	-39.25	10.0	49.2	213	345	
Hori.	5925.000	PK	51.39	34.67	15.41	45.33	2.21	58.35	-36.87	-27.0	9.8	213	345	
Vert.	5850.000	PK	50.89	34.21	15.37	45.39	2.21	57.29	-37.93	27.0	64.9	199	339	
Vert.	5855.000	PK	50.59	34.24	15.37	45.39	2.21	57.02	-38.20	15.6	53.8	199	339	
Vert.	5875.000	PK	51.11	34.37	15.39	45.38	2.21	57.70	-37.52	10.0	47.5	199	339	
Vert.	5925.000	PK	51.54	34.67	15.41	45.33	2.21	58.50	-36.72	-27.0	9.7	199	339	

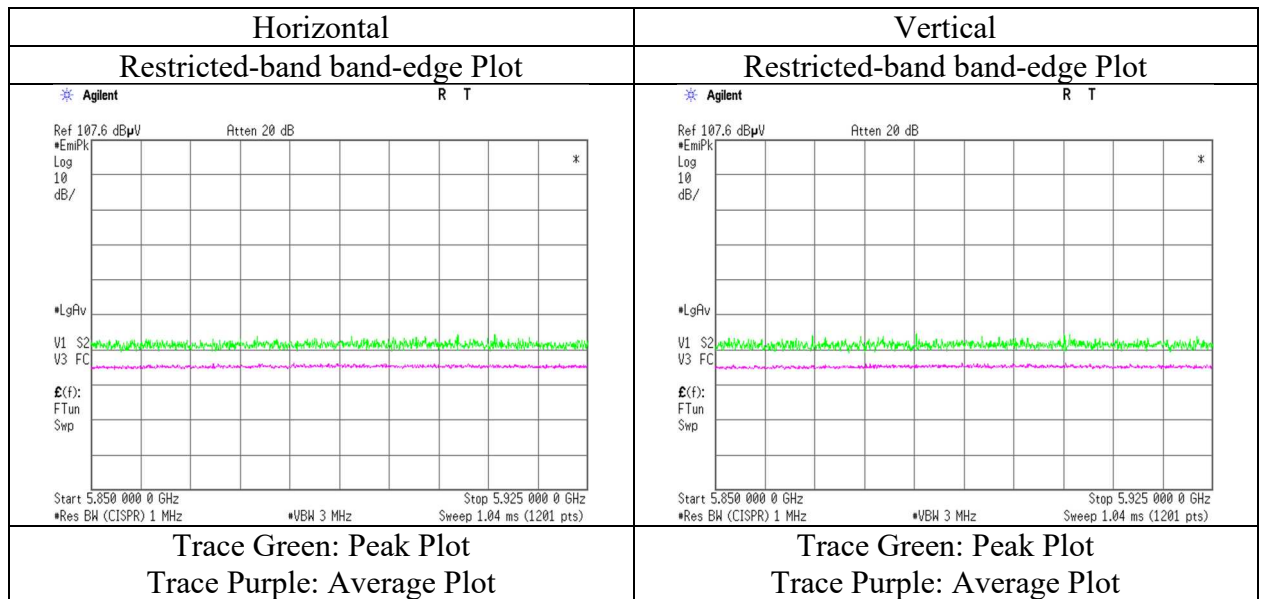
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) * 10 ^ 3)

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

Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB



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

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

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Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-40 MIMO 5190 MHz with BT Hopping On DH5
EUT Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	52.53	32.51	15.00	45.38	2.21	56.87	73.9	17.0	142	342	VBW:13 kHz
Hori.	5150.000	AV	42.88	32.51	15.00	45.38	2.21	47.22	53.9	6.6	142	342	
Vert.	5150.000	PK	52.31	32.51	15.00	45.38	2.21	56.65	73.9	17.2	107	312	VBW:13 kHz
Vert.	5150.000	AV	42.79	32.51	15.00	45.38	2.21	47.13	53.9	6.7	107	312	

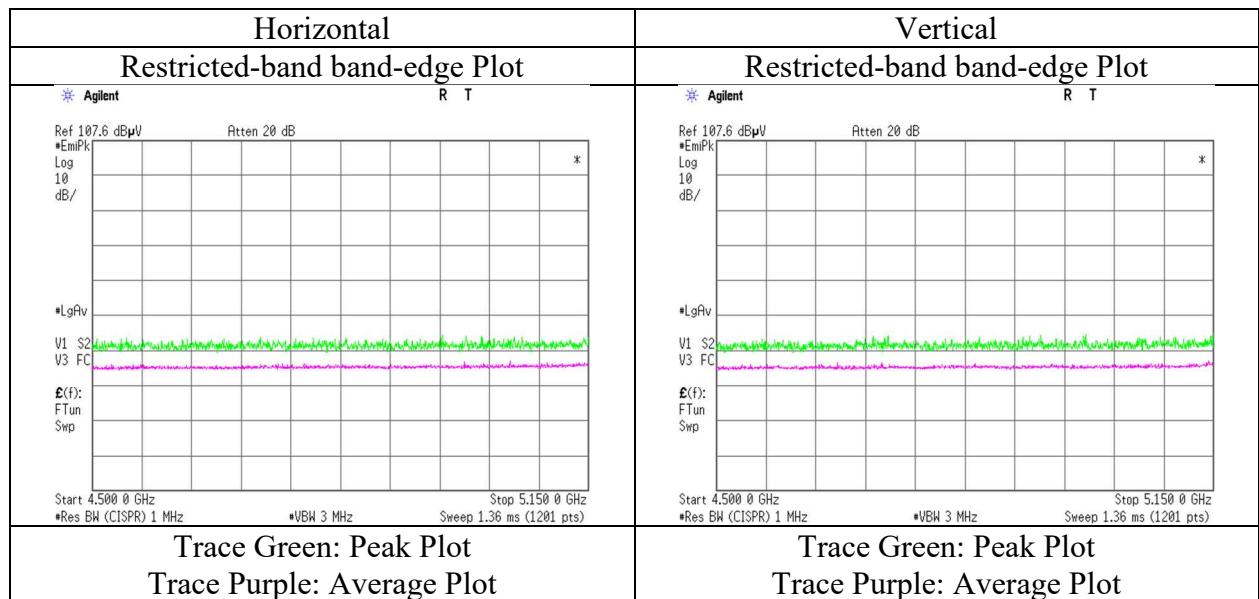
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$



* 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

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-40 MIMO 5230 MHz with BT Hopping On DH5
EUT Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	50.57	32.96	15.11	45.45	2.21	55.40	73.9	18.5	166	343	VBW:13 kHz
Hori.	5350.000	AV	42.21	32.96	15.11	45.45	2.21	47.04	53.9	6.8	166	343	
Vert.	5350.000	PK	49.61	32.96	15.11	45.45	2.21	54.44	73.9	19.4	208	319	VBW:13 kHz
Vert.	5350.000	AV	42.38	32.96	15.11	45.45	2.21	47.21	53.9	6.6	208	319	

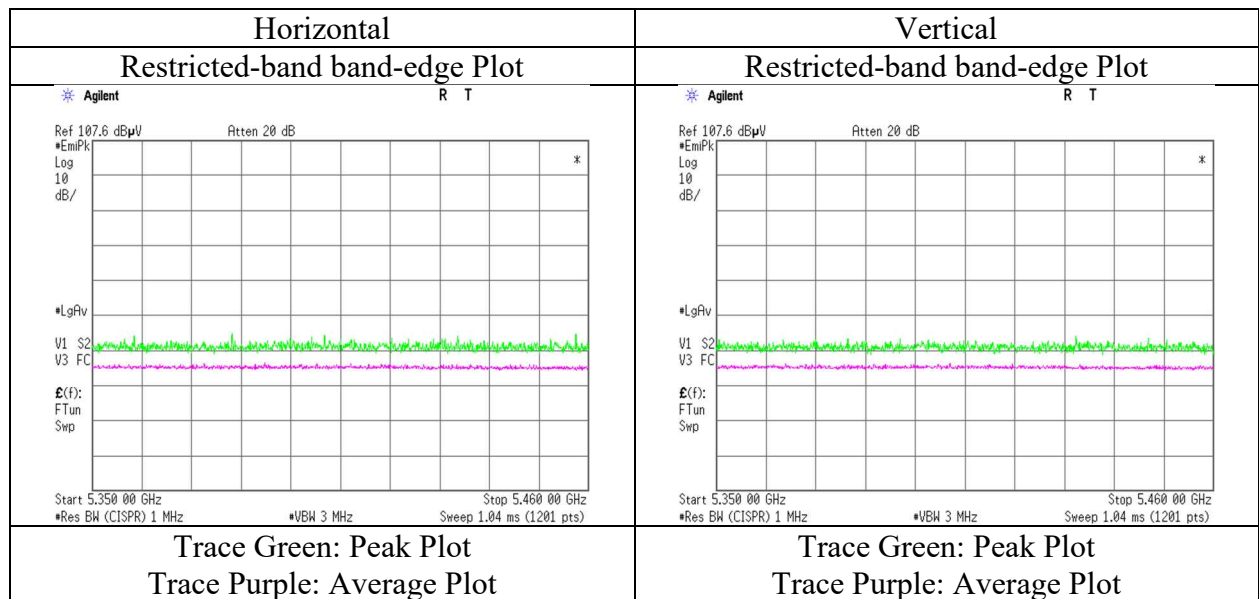
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$



* 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

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-40 MIMO 5755 MHz with BT Hopping On DHS
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	52.12	33.49	15.27	45.47	2.21	57.62	-37.60	-27.0	10.6	180	348	
Hori.	5700.000	PK	51.79	33.61	15.30	45.47	2.21	57.44	-37.78	10.0	47.7	180	348	
Hori.	5720.000	PK	54.50	33.67	15.31	45.46	2.21	60.23	-34.99	15.6	50.5	180	348	
Hori.	5725.000	PK	56.40	33.68	15.31	45.46	2.21	62.14	-33.08	27.0	60.0	180	348	
Vert.	5650.000	PK	50.95	33.49	15.27	45.47	2.21	56.45	-38.77	-27.0	11.7	175	341	
Vert.	5700.000	PK	51.20	33.61	15.30	45.47	2.21	56.85	-38.37	10.0	48.3	175	341	
Vert.	5720.000	PK	52.33	33.67	15.31	45.46	2.21	58.06	-37.16	15.6	52.7	175	341	
Vert.	5725.000	PK	55.99	33.68	15.31	45.46	2.21	61.73	-33.49	27.0	60.4	175	341	

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

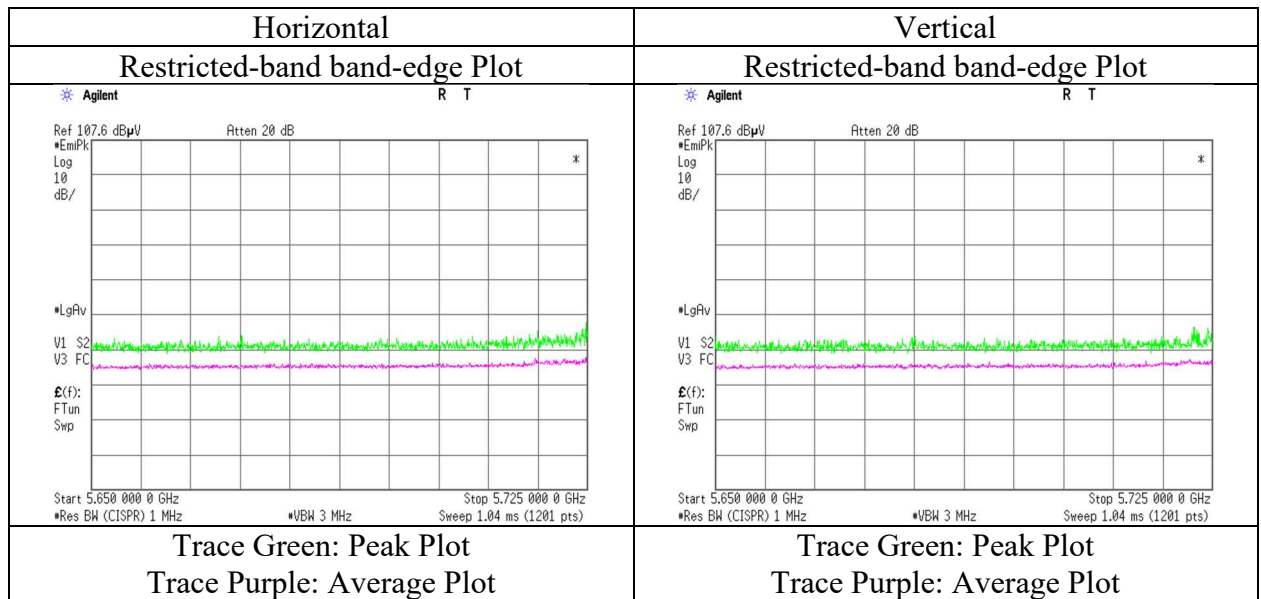
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) * 10 ^ 3)

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

Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB



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

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

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Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-40 MIMO 5795 MHz with BT Hopping On DHS
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	51.54	34.21	15.37	45.39	2.21	57.94	-37.28	27.0	64.2	151	346	
Hori.	5855.000	PK	51.05	34.24	15.37	45.39	2.21	57.48	-37.74	15.6	53.3	151	346	
Hori.	5875.000	PK	51.03	34.37	15.39	45.38	2.21	57.62	-37.60	10.0	47.6	151	346	
Hori.	5925.000	PK	51.85	34.67	15.41	45.33	2.21	58.81	-36.41	-27.0	9.4	151	346	
Vert.	5850.000	PK	51.88	34.21	15.37	45.39	2.21	58.28	-36.94	27.0	63.9	157	338	
Vert.	5855.000	PK	51.40	34.24	15.37	45.39	2.21	57.83	-37.39	15.6	52.9	157	338	
Vert.	5875.000	PK	51.23	34.37	15.39	45.38	2.21	57.82	-37.40	10.0	47.4	157	338	
Vert.	5925.000	PK	51.34	34.67	15.41	45.33	2.21	58.30	-36.92	-27.0	9.9	157	338	

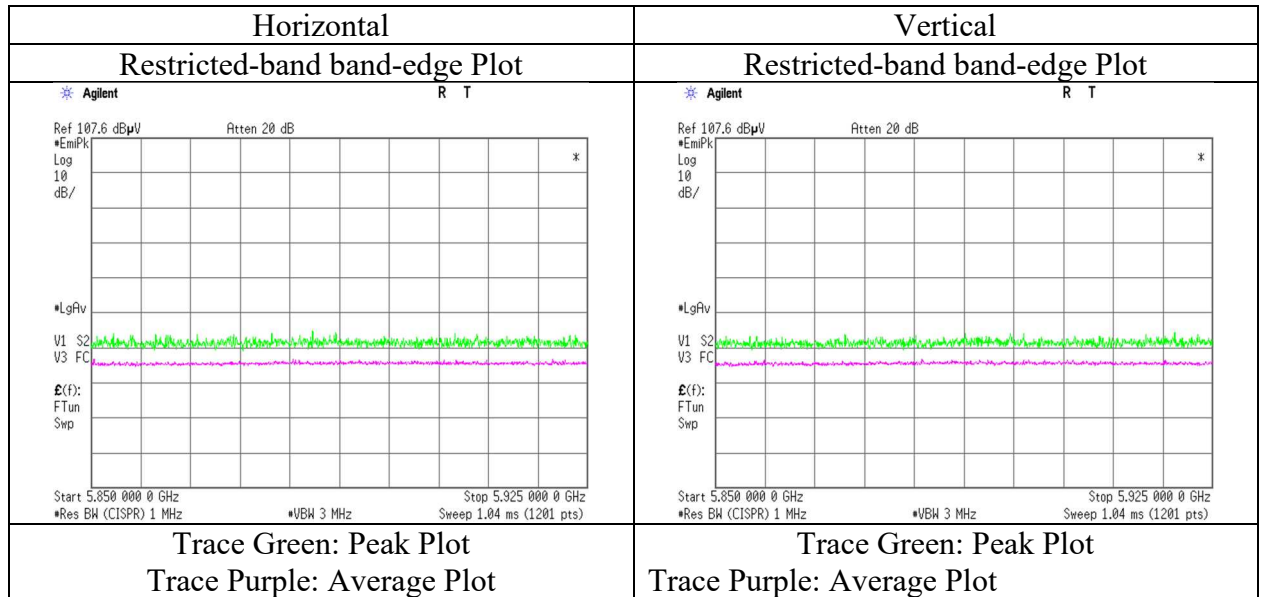
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) * 10 ^ 3)

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

Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB



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

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

UL Japan, Inc.

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Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-80 MIMO 5210 MHz with BT Hopping On DH5
EUT Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	52.21	32.51	15.00	45.38	2.21	56.55	73.9	17.3	156	345	
Hori.	5350.000	PK	50.76	32.96	15.11	45.45	2.21	55.59	73.9	18.3	156	345	
Hori.	5150.000	AV	43.22	32.51	15.00	45.38	2.21	47.56	53.9	6.3	156	345	VBW:18 kHz
Hori.	5350.000	AV	42.94	32.96	15.11	45.45	2.21	47.77	53.9	6.1	156	345	VBW:18 kHz
Vert.	5150.000	PK	51.76	32.51	15.00	45.38	2.21	56.10	73.9	17.8	152	311	
Vert.	5350.000	PK	50.75	32.96	15.11	45.45	2.21	55.58	73.9	18.3	152	311	
Vert.	5150.000	AV	43.57	32.51	15.00	45.38	2.21	47.91	53.9	5.9	152	311	VBW:18 kHz
Vert.	5350.000	AV	42.68	32.96	15.11	45.45	2.21	47.51	53.9	6.3	152	311	VBW:18 kHz

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

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

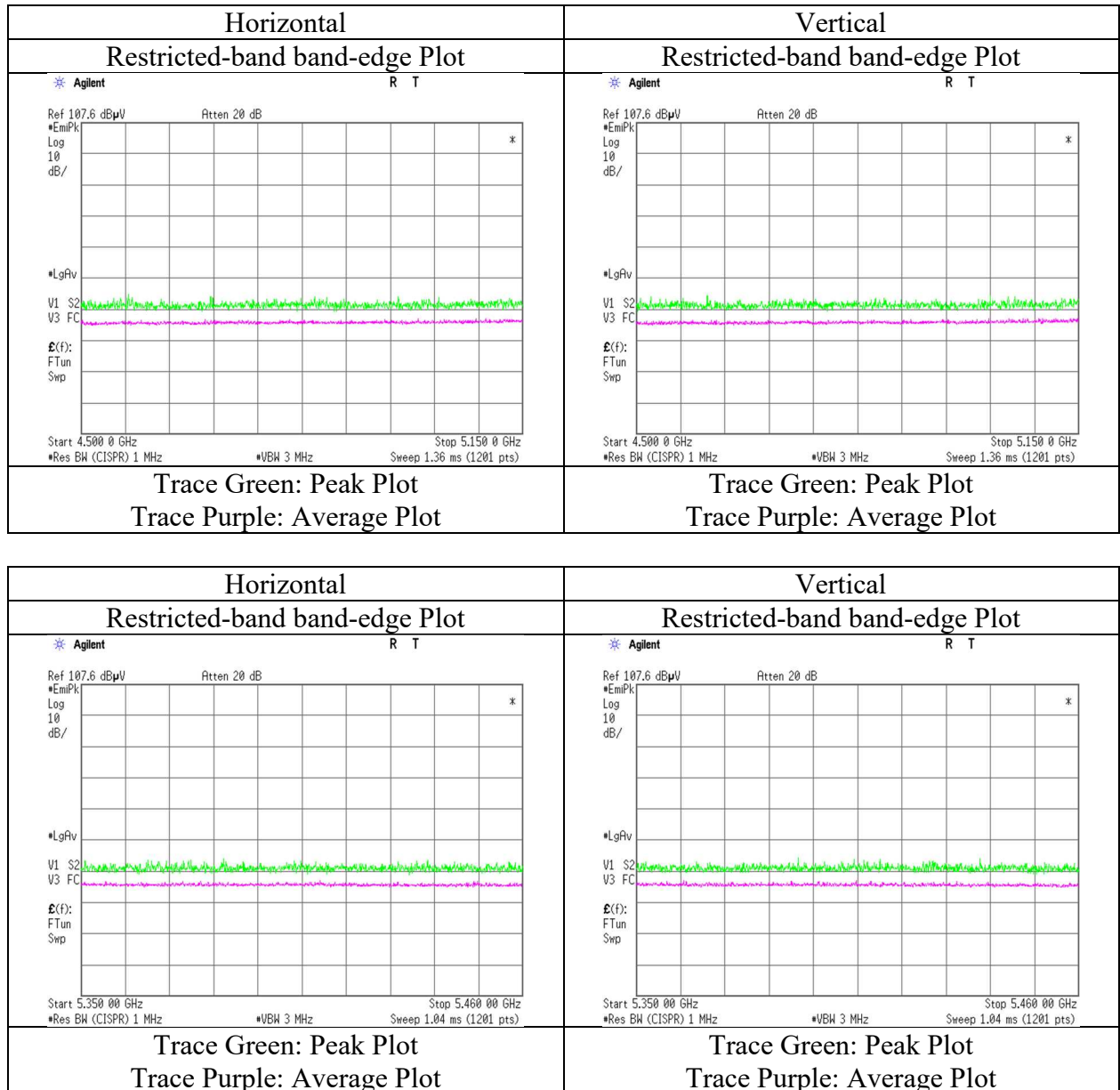
Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 19, 2020
Temperature / Humidity	23 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-80 MIMO 5210 MHz with BT Hopping On DH5
EUT	Lo type



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

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

UL Japan, Inc.

Kashima EMC Lab.

1614, Mushiata, Katori-shi, Chiba-ken, 289-0341 Japan

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Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-80 MIMO 5775 MHz with BT Hopping On DH5
EUT Lo type

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

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result(EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	52.32	33.49	15.27	45.47	2.21	57.82	-37.40	-27.0	10.4	151	347	
Hori.	5700.000	PK	53.00	33.61	15.30	45.47	2.21	58.65	-36.57	10.0	46.5	151	347	
Hori.	5720.000	PK	53.80	33.67	15.31	45.46	2.21	59.53	-35.69	15.6	51.2	151	347	
Hori.	5725.000	PK	53.49	33.68	15.31	45.46	2.21	59.23	-35.99	27.0	62.9	151	347	
Hori.	5850.000	PK	50.42	34.21	15.37	45.39	2.21	56.82	-38.40	27.0	65.4	151	347	
Hori.	5855.000	PK	51.60	34.24	15.37	45.39	2.21	58.03	-37.19	15.6	52.7	151	347	
Hori.	5875.000	PK	52.25	34.37	15.39	45.38	2.21	58.84	-36.38	10.0	46.3	151	347	
Hori.	5925.000	PK	51.54	34.67	15.41	45.33	2.21	58.50	-36.72	-27.0	9.7	151	347	
Vert.	5650.000	PK	51.27	33.49	15.27	45.47	2.21	56.77	-38.45	-27.0	11.4	201	339	
Vert.	5700.000	PK	51.98	33.61	15.30	45.47	2.21	57.63	-37.59	10.0	47.5	201	339	
Vert.	5720.000	PK	53.47	33.67	15.31	45.46	2.21	59.20	-36.02	15.6	51.6	201	339	
Vert.	5725.000	PK	52.71	33.68	15.31	45.46	2.21	58.45	-36.77	27.0	63.7	201	339	
Vert.	5850.000	PK	51.09	34.21	15.37	45.39	2.21	57.49	-37.73	27.0	64.7	201	339	
Vert.	5855.000	PK	50.53	34.24	15.37	45.39	2.21	56.96	-38.26	15.6	53.8	201	339	
Vert.	5875.000	PK	50.97	34.37	15.39	45.38	2.21	57.56	-37.66	10.0	47.6	201	339	
Vert.	5925.000	PK	52.28	34.67	15.41	45.33	2.21	59.24	-35.98	-27.0	8.9	201	339	

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result(EIRP[dBm])=10*LOG (({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

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

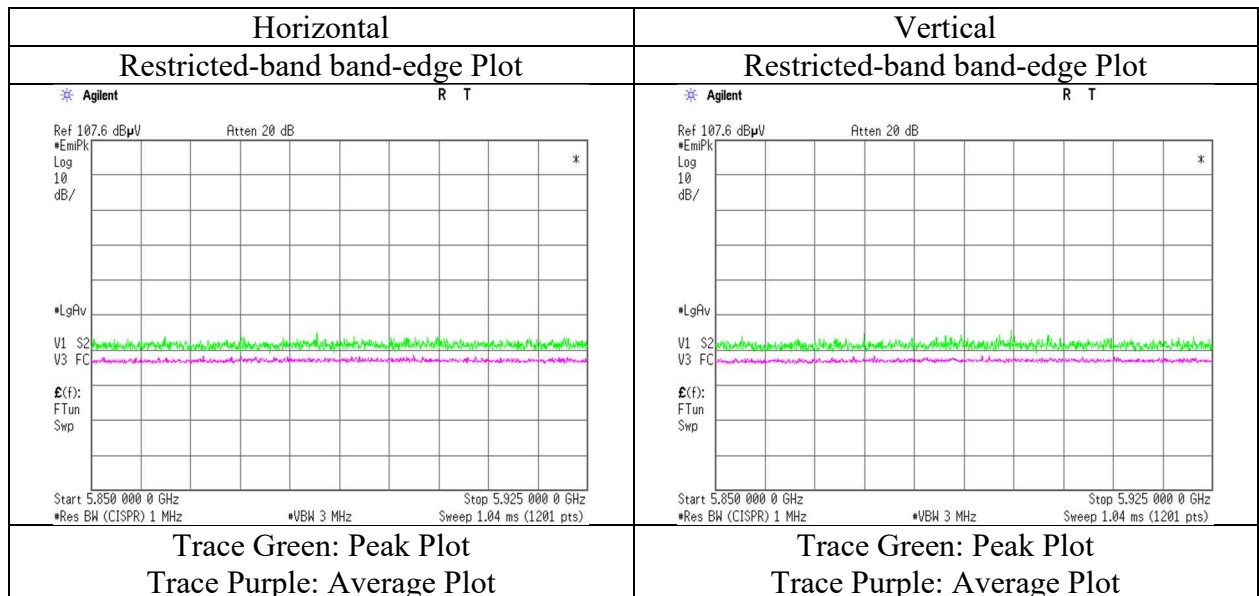
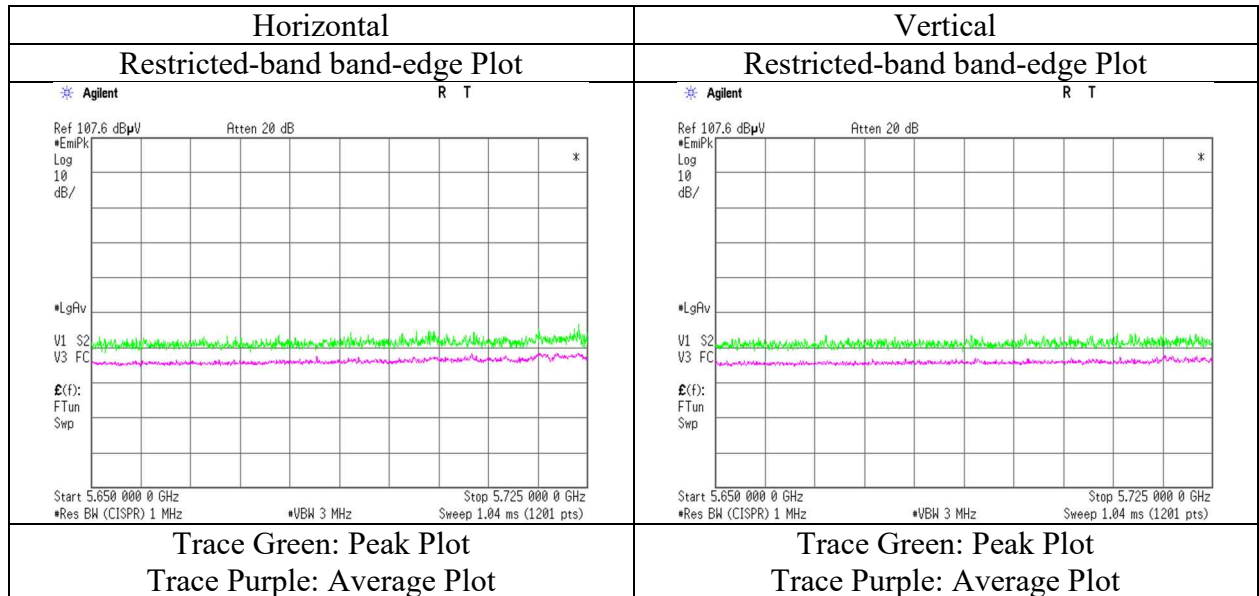
Distance factor : 1 GHz - 10 GHz : 20log (3.87 m / 3.0 m) = 2.21 dB

10 GHz - 26.5 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

26.5 GHz - 40 GHz : 20log (0.5 m / 3.0 m) = -15.56 dB

Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	August 19, 2020
Temperature / Humidity	23 deg. C / 53 % RH
Engineer	Hiromitsu Tanabe
Mode	Tx 11ac-80 MIMO 5775 MHz with BT Hopping On DH5
EUT	Lo type



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

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

UL Japan, Inc.

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Radiated Spurious Emission

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date November 13, 2020
Temperature / Humidity 22 deg. C / 39 % RH
(1 GHz - 6.4 GHz)
Engineer Kazuhiro Ando
Mode Tx 11ac-80 MIMO 5210 MHz with 11g 2437MHz and BT Hopping On DH5
EUT Lo type

(above 1 GHz Inside of the restricted band)

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

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	51.78	32.51	15.00	45.38	2.21	56.12	73.9	17.7	156	342	
Hori.	5350.000	PK	50.65	32.96	15.11	45.45	2.21	55.48	73.9	18.4	156	342	
Hori.	5150.000	AV	42.74	32.51	15.00	45.38	2.21	47.08	53.9	6.8	156	342	VBW:18 kHz
Hori.	5350.000	AV	42.39	32.96	15.11	45.45	2.21	47.22	53.9	6.6	156	342	VBW:18 kHz
Vert.	5150.000	PK	51.42	32.51	15.00	45.38	2.21	55.76	73.9	18.1	165	316	
Vert.	5350.000	PK	50.68	32.96	15.11	45.45	2.21	55.51	73.9	18.3	165	316	
Vert.	5150.000	AV	43.05	32.51	15.00	45.38	2.21	47.39	53.9	6.5	165	316	VBW:18 kHz
Vert.	5350.000	AV	42.11	32.96	15.11	45.45	2.21	46.94	53.9	6.9	165	316	VBW:18 kHz

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

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

Distance factor : 1 GHz - 10 GHz : $20\log(3.87\text{ m} / 3.0\text{ m}) = 2.21\text{ dB}$

10 GHz - 26.5 GHz : $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.54\text{ dB}$

26.5 GHz - 40 GHz : $20\log(0.5\text{ m} / 3.0\text{ m}) = -15.56\text{ dB}$

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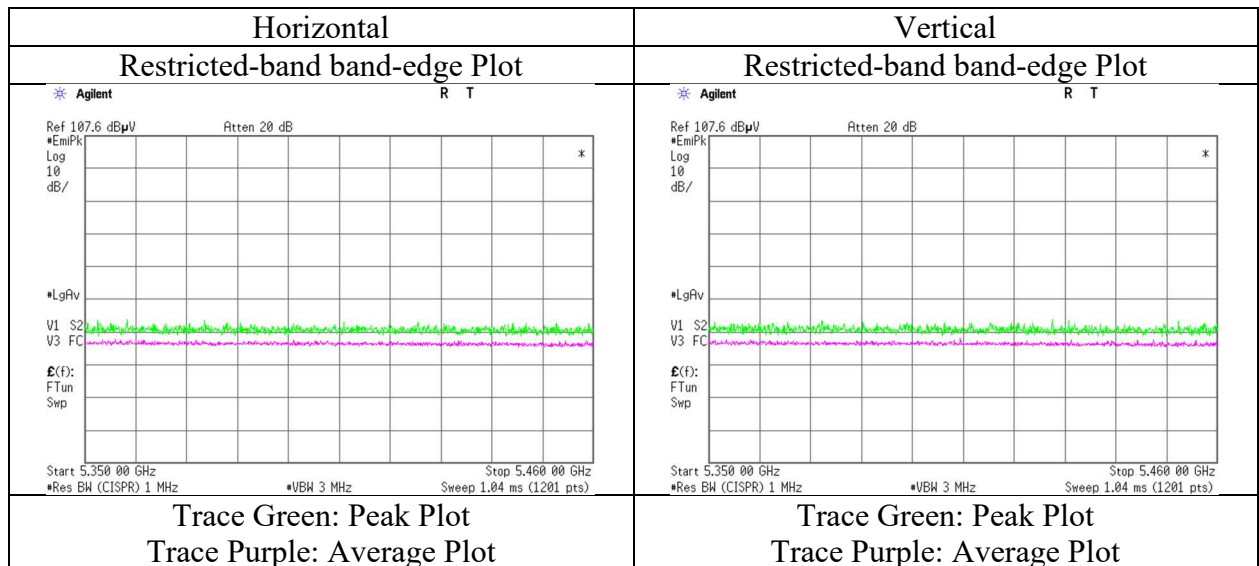
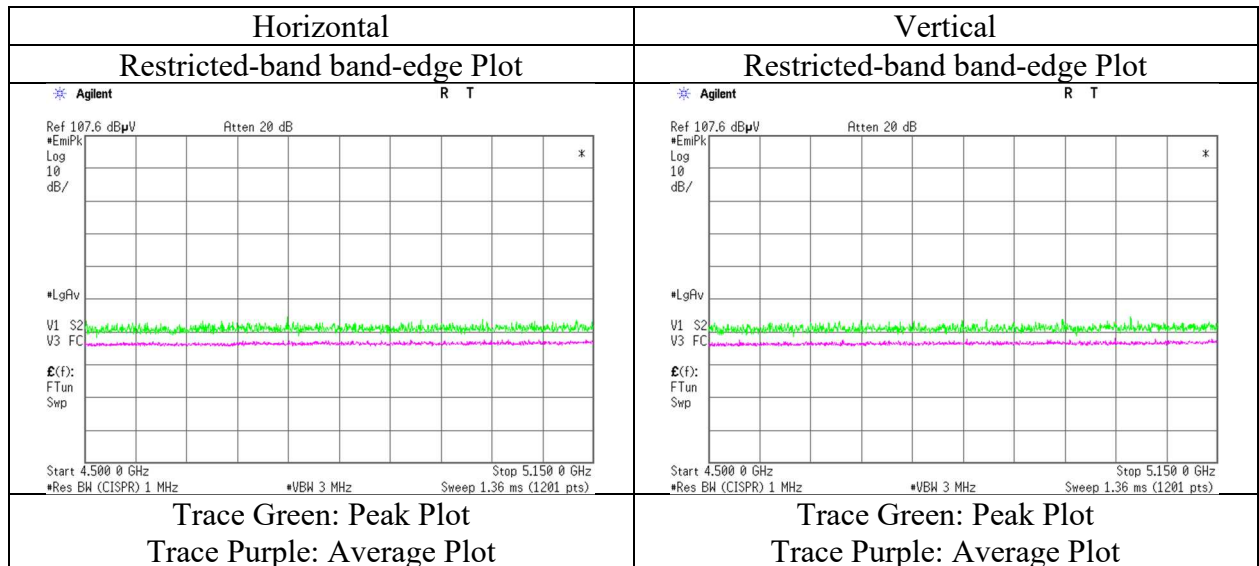
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Radiated Spurious Emission

Report No.	13408125M-C-R1
Test place	Kashima EMC Lab.
Semi Anechoic Chamber	No.11
Date	November 13, 2020
Temperature / Humidity	22 deg. C / 39 % RH
	(1 GHz - 6.4 GHz)
Engineer	Kazuhiro Ando
Mode	Tx 11ac-80 MIMO 5210 MHz with 11g 2437MHz and BT Hopping On DH5
EUT	Lo type



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

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

UL Japan, Inc.

Kashima EMC Lab.

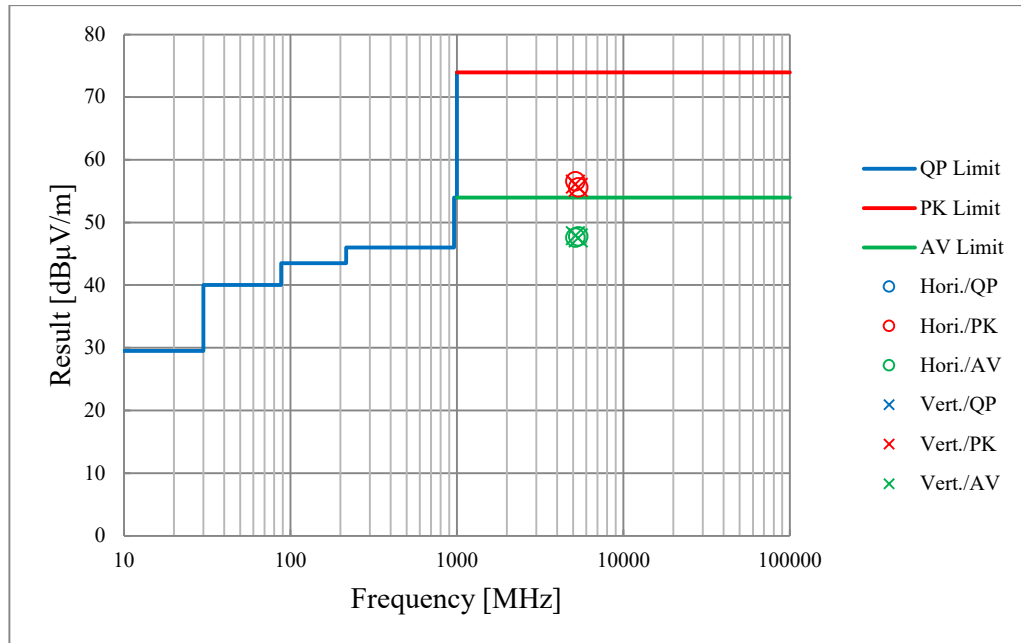
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Radiated Spurious Emission **(Plot data, Worst case)**

Report No. 13408125M-C-R1
Test place Kashima EMC Lab.
Semi Anechoic Chamber No.11
Date August 19, 2020
Temperature / Humidity 23 deg. C / 53 % RH
(1 GHz - 6.4 GHz)
Engineer Hiromitsu Tanabe
Mode Tx 11ac-80 MIMO 5210 MHz with BT Hopping On DH5
EUT Lo type



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

APPENDIX 2: Test instruments

Test equipment

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	CCC-S6-R	143107	6 Site RE System	UL Japan Inc.	none(No.6 RE)	none	2019/12/20	12
RE	CBL-09	143122	LOGBICON	Schwarzbeck Mess - Elektronik	VULB 9168	508	2020/04/07	12
RE	CAT5-04	178807	5dB Fixed Atten.	PASTERNAK	PE7047-5	none	2020/04/01	12
RE	CAF-07	142929	Pre-Amplifier	SONOMA INSTRUMENT	310N	240505	2019/11/21	12
RE	CTR-02	144194	Test Receiver	Rohde & Schwarz	ESCI	100601	2019/09/04	12
RE	CCC-S11-R	143169	Coaxial Cable	Fujikura,Suhner,Suhner, Agilent,Suhner,-,Suhner	5D-2W,SF106,SF104, 8496B+8494B,SF106, -,SF106	MY42143380,US0 0431042(Step Att)	2019/11/19	12
RE	CAF-16	142936	Pre-Amplifier	SONOMA INSTRUMENT	310N	325015	2020/05/12	12
RE	CTR-01	144193	Test Receiver	Rohde & Schwarz	ESU40	100426	2020/04/21	12
RE(GHz)	TSA-01	143642	Spectrum Analyzer	Keysight Technologies Inc	N9030A	MY53310670 Version A.13.12	2020/05/19	12
RE(GHz)	CAF-22	142940	Pre-Amplifier	Micro Wave Factory	MPR-1G26.5-35	161399	2020/06/08	12
RE(GHz)	CCC-G14	192241	Microwave Cable	Huber+Suhner	SF104/PC35m/PC35m /1000mm	805411/4	2020/01/15	12
RE(GHz)	CCC-G17	192244	Microwave Cable	Huber+Suhner	SF104/11N/11PC35/8 000MM	808996/4	2020/01/15	12
RE(GHz)	CHA-25	143456	Double Ridged Wave Guide	ETS-Lindgren	3115	00204573	2020/02/08	12
RE(GHz)	CAT10-17	143023	10dB Fixed Atten.	Weinschel - API Technologies Corp	54A-10	56251	2020/05/15	12
RE(GHz)	CHF-04	143442	HPF	MICRO-TRONICS	HPM50111-02	009	2020/05/15	12
RE(GHz)	CHF-05	143443	HPF	MICRO-TRONICS	HPM50112-02	006	2020/05/14	12
RE(GHz)	CHA-07	143438	Double Ridged Horn	ETS-Lindgren	3160-09	00166043	2020/06/06	12
RE(GHz)	CAF-19	142937	Pre-Amplifier	TOYO	HAP18-26W	00000035	2020/06/09	12
RE(GHz)	CCC-W09	143113	Micro Wave Cable	Suhner	SUCOFLEX104	MY588/4	2020/07/05	12
RE(GHz)	CHA-28	146356	Horn Antenna	ETS LINDGREN	3116	46543	2020/02/08	12
RE(GHz)	CCC-G13	171928	Microwave Cable	Huber+Suhner	SF102/SKm/SKm/100 0mm	801389/2	2020/07/05	12
RE(GHz)	CCC-W10	142992	Micro Wave Cable	Suhner	SUCOFLEX102	MY010/2A	2020/07/05	12
RE(GHz)	KAF-06	144880	Pre Amplifier	TSJ (Techno Science Japan)	MLA-1840B02-35	-	2020/04/09	12
EMI	CSCL-08	143667	Ruler	TAJIMA	L25-55	none	-	-
EMI	COS-06	143538	Temperature & Humidity Indicator	Hioki	3641/9680-50	070727010/070799 296	2020/07/21	12
EMI	CBM-06	143129	Barometer	Sunoh	SBR-151	000017	2018/11/26	36
EMI	CTS-07	144209	Digital Multimeter	Fluke Corporation	FLK-83-V	17610192	2019/10/27	12
EMI	COTS-CE MI-03	178804	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE, ME,PE)	-	-	-

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

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

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

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

Test item: RE: Radiated Emission

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