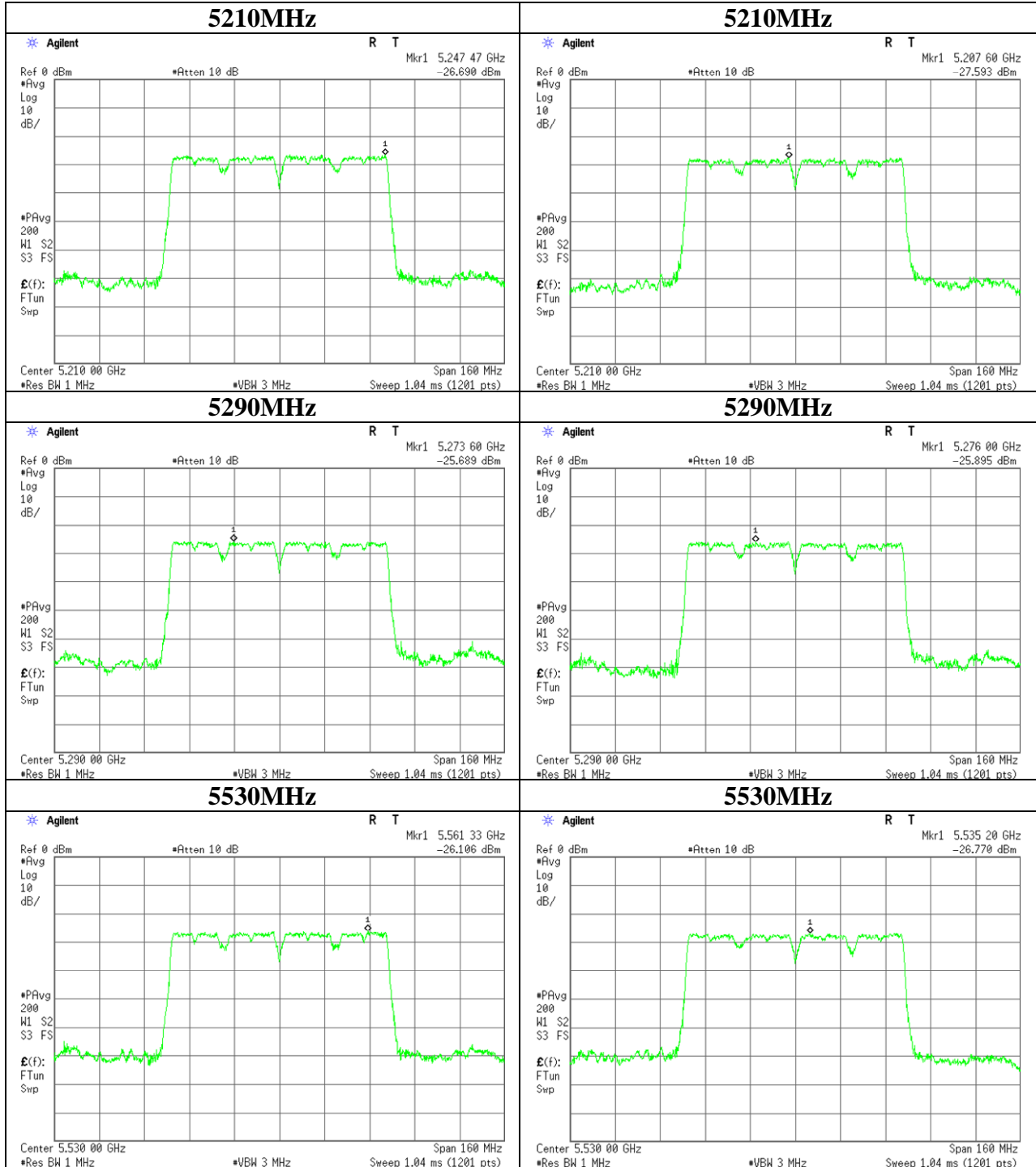


Maximum Power Spectral Density

11ac-80 Antenna 1

11ac-80 Antenna 2



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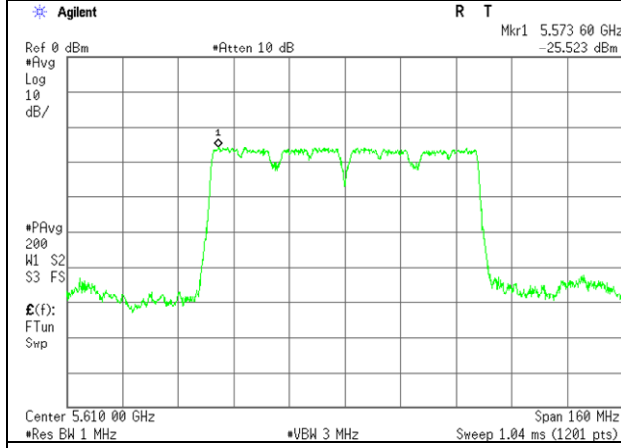
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Maximum Power Spectral Density

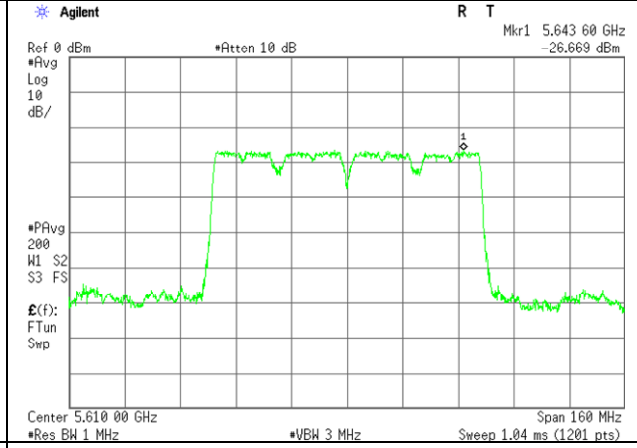
11ac-80 Antenna 1

5610MHz

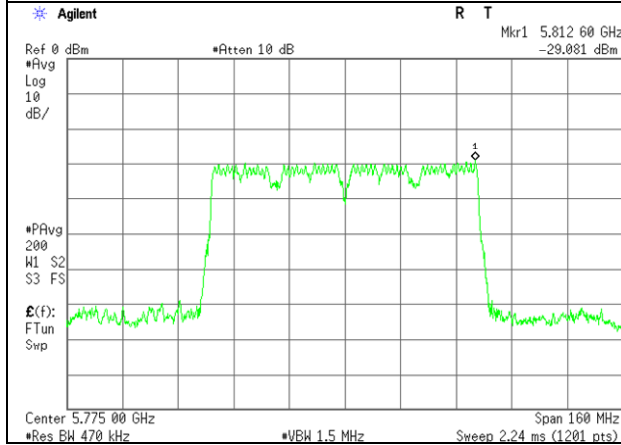


11ac-80 Antenna 2

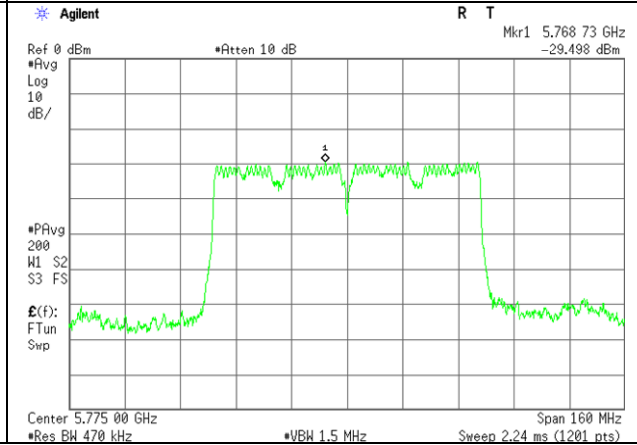
5610MHz



5775MHz



5775MHz



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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5180MHz		

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	60.1	32.2	3.8	31.6	-	64.5	73.9	9.4	
Hori	10360.000	PK	42.4	39.8	-2.4	33.3	-	46.5	73.9	27.4	Floor Noise
Hori	15540.000	PK	45.3	39.8	-2.4	33.3	-	49.4	73.9	24.5	Floor Noise
Hori	20720.000	PK	45.0	38.0	-1.6	32.6	-	48.8	73.9	25.1	Floor Noise
Hori	5150.000	AV	47.3	32.2	3.8	31.6	0.9	52.6	53.9	1.3	Integration Method *1)
Hori	10360.000	AV	33.6	39.8	-2.4	33.3	-	37.7	53.9	16.2	Floor Noise
Hori	15540.000	AV	34.0	39.8	-2.4	33.3	-	38.1	53.9	15.8	Floor Noise
Hori	20720.000	AV	36.4	38.0	-1.6	32.6	-	40.2	53.9	13.7	Floor Noise
Vert	5150.000	PK	59.3	32.2	3.8	31.6	-	63.7	73.9	10.2	
Vert	10360.000	PK	42.0	39.8	-2.4	33.3	-	46.1	73.9	27.8	Floor Noise
Vert	15540.000	PK	42.3	39.8	-2.4	33.3	-	46.4	73.9	27.5	Floor Noise
Vert	20720.000	PK	45.3	38.0	-1.6	32.6	-	49.1	73.9	24.8	Floor Noise
Vert	5150.000	AV	47.4	32.2	3.8	31.6	0.9	52.7	53.9	1.2	Integration Method *1)
Vert	10360.000	AV	33.0	39.8	-2.4	33.3	-	37.1	53.9	16.8	Floor Noise
Vert	15540.000	AV	32.2	39.8	-2.4	33.3	-	36.3	53.9	17.6	Floor Noise
Vert	20720.000	AV	36.6	38.0	-1.6	32.6	-	40.4	53.9	13.5	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz $20\log(3.0\text{m}/1.0\text{m})= 9.5\text{dB}$

26.5GHz-40GHz $20\log(3.0\text{m}/0.5\text{m})=15.6\text{dB}$

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5260MHz		

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	42.2	40.1	-2.3	33.3	-	46.7	73.9	27.2	Floor Noise
Hori	15780.000	PK	44.3	39.8	-0.7	32.2	-	51.1	73.9	22.8	Floor Noise
Hori	21040.000	PK	45.9	38.2	-1.6	32.7	-	49.8	73.9	24.1	Floor Noise
Hori	10520.000	AV	32.7	39.8	-2.3	33.3	-	36.9	53.9	17.0	Floor Noise
Hori	15780.000	AV	33.9	39.8	-0.7	33.3	-	39.6	53.9	14.3	Floor Noise
Hori	21040.000	AV	36.5	38.2	-1.6	32.7	-	40.4	53.9	13.5	Floor Noise
Vert	10520.000	PK	41.9	39.8	-2.3	33.3	-	46.1	73.9	27.8	Floor Noise
Vert	15780.000	PK	42.5	39.8	-0.7	33.3	-	48.2	73.9	25.7	Floor Noise
Vert	21040.000	PK	44.4	38.2	-1.6	32.7	-	48.3	73.9	25.6	Floor Noise
Vert	10520.000	AV	32.8	39.8	-2.3	33.3	-	37.0	53.9	16.9	Floor Noise
Vert	15780.000	AV	32.1	39.8	-0.7	33.3	-	37.8	53.9	16.1	Floor Noise
Vert	21040.000	AV	36.6	38.2	-1.6	32.7	-	40.5	53.9	13.4	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5320MHz		

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	63.3	32.3	3.8	31.7	-	67.7	73.9	6.2	
Hori	10640.000	PK	43.3	40.3	-2.2	33.3	-	48.1	73.9	25.8	Floor Noise
Hori	15960.000	PK	45.1	38.1	-0.6	32.2	-	50.3	73.9	23.6	Floor Noise
Hori	21280.000	PK	44.7	38.4	-1.5	32.6	-	49.0	73.9	24.9	Floor Noise
Hori	5350.000	AV	42.1	32.3	3.8	31.7	0.9	47.4	53.9	6.5	Integration Method *1)
Hori	10640.000	AV	33.4	40.3	-2.2	33.3	-	38.2	53.9	15.7	Floor Noise
Hori	15960.000	AV	34.1	38.1	-0.6	32.2	-	39.3	53.9	14.6	Floor Noise
Hori	21280.000	AV	36.4	38.4	-1.5	32.6	-	40.7	53.9	13.2	Floor Noise
Vert	5350.000	PK	62.8	32.3	3.8	31.7	-	67.2	73.9	6.7	
Vert	10640.000	PK	42.1	40.3	-2.2	33.3	-	46.9	73.9	27.0	Floor Noise
Vert	15960.000	PK	43.3	38.1	-0.6	32.2	-	48.5	73.9	25.4	Floor Noise
Vert	21280.000	PK	45.7	38.4	-1.5	32.6	-	50.0	73.9	23.9	Floor Noise
Vert	5350.000	AV	41.5	32.3	3.8	31.7	0.9	46.8	53.9	7.1	Integration Method *1)
Vert	10640.000	AV	33.1	40.3	-2.2	33.3	-	37.9	53.9	16.0	Floor Noise
Vert	15960.000	AV	32.6	38.1	-0.6	32.2	-	37.8	53.9	16.1	Floor Noise
Vert	21280.000	AV	36.4	38.4	-1.5	32.6	-	40.7	53.9	13.2	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5500MHz		

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	5470.000	PK	53.9	32.4	3.9	31.7	-	58.5	73.9	15.4	
Hori	11000.000	PK	42.0	40.9	-2.1	33.3	-	47.6	73.9	26.3	Floor Noise
Hori	16500.000	PK	43.5	39.1	-0.6	32.1	-	49.8	73.9	24.1	Floor Noise
Hori	22000.000	PK	46.3	38.9	-1.1	32.1	-	52.0	73.9	21.9	Floor Noise
Hori	5470.000	AV	40.9	32.4	3.9	31.7	0.9	46.4	53.9	7.5	Integration Method *1)
Hori	11000.000	AV	32.2	40.9	-2.1	33.3	-	37.8	53.9	16.1	Floor Noise
Hori	16500.000	AV	33.4	39.1	-0.6	32.1	-	39.7	53.9	14.2	Floor Noise
Hori	22000.000	AV	36.5	38.9	-1.1	32.1	-	42.2	53.9	11.7	Floor Noise
Vert	5470.000	PK	53.9	32.4	3.9	31.7	-	58.5	73.9	15.4	
Vert	11000.000	PK	40.9	40.9	-2.1	33.3	-	46.5	73.9	27.4	Floor Noise
Vert	16500.000	PK	42.8	39.1	-0.6	32.1	-	49.1	73.9	24.8	Floor Noise
Vert	22000.000	PK	44.7	38.9	-1.1	32.1	-	50.4	73.9	23.5	Floor Noise
Vert	5470.000	AV	40.6	32.4	3.9	31.7	0.9	46.1	53.9	7.8	Integration Method *1)
Vert	11000.000	AV	31.1	40.9	-2.1	33.3	-	36.7	53.9	17.2	Floor Noise
Vert	16500.000	AV	32.5	39.1	-0.6	32.1	-	38.8	53.9	15.1	Floor Noise
Vert	22000.000	AV	36.3	38.9	-1.1	32.1	-	42.0	53.9	11.9	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5580MHz		

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	11160.000	PK	43.3	40.8	-2.0	33.2	-	48.8	73.9	25.1	Floor Noise
Hori	16740.000	PK	45.1	39.6	-0.6	32.1	-	52.0	73.9	21.9	Floor Noise
Hori	22320.000	PK	44.5	39.0	-1.1	32.1	-	50.3	73.9	23.6	Floor Noise
Hori	11160.000	AV	32.2	40.8	-2.0	33.2	-	37.7	53.9	16.2	Floor Noise
Hori	16740.000	AV	34.1	39.6	-0.6	32.1	-	41.0	53.9	12.9	Floor Noise
Hori	22320.000	AV	36.4	39.0	-1.1	32.1	-	42.2	53.9	11.7	Floor Noise
Vert	11160.000	PK	42.6	40.8	-2.0	33.2	-	48.1	73.9	25.8	Floor Noise
Vert	16740.000	PK	45.6	39.6	-0.6	32.1	-	52.5	73.9	21.4	Floor Noise
Vert	22320.000	PK	45.3	39.0	-1.1	32.1	-	51.1	73.9	22.8	Floor Noise
Vert	11160.000	AV	32.6	40.8	-2.0	33.2	-	38.1	53.9	15.8	Floor Noise
Vert	16740.000	AV	33.7	39.6	-0.6	32.1	-	40.6	53.9	13.3	Floor Noise
Vert	22320.000	AV	36.9	39.0	-1.1	32.1	-	42.7	53.9	11.2	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5700MHz		

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	63.1	32.9	4.0	31.7	-	68.3	73.9	5.6	
Hori	11400.000	PK	43.0	40.7	-2.0	33.2	-	48.5	73.9	25.4	Floor Noise
Hori	17100.000	PK	45.2	40.7	-0.6	32.1	-	53.2	73.9	20.7	Floor Noise
Hori	22800.000	PK	45.5	39.2	-1.0	32.0	-	51.7	73.9	22.2	Floor Noise
Hori	5725.000	AV	44.6	32.9	4.0	31.7	0.9	50.7	53.9	3.2	Integration Method *1)
Hori	11400.000	AV	33.1	40.7	-2.0	33.2	-	38.6	53.9	15.3	Floor Noise
Hori	17100.000	AV	34.2	40.7	-0.6	32.1	-	42.2	53.9	11.7	Floor Noise
Hori	22800.000	AV	37.1	39.2	-1.0	32.0	-	43.3	53.9	10.6	Floor Noise
Vert	5725.000	PK	61.7	32.9	4.0	31.7	-	66.9	73.9	7.0	
Vert	11400.000	PK	42.7	40.7	-2.0	33.2	-	48.2	73.9	25.7	Floor Noise
Vert	17100.000	PK	42.0	40.7	-0.6	32.1	-	50.0	73.9	23.9	Floor Noise
Vert	22800.000	PK	46.0	39.2	-1.0	32.0	-	52.2	73.9	21.7	Floor Noise
Vert	5725.000	AV	43.2	32.9	4.0	31.7	0.9	49.3	53.9	4.6	Integration Method *1)
Vert	11400.000	AV	32.5	40.7	-2.0	33.2	-	38.0	53.9	15.9	Floor Noise
Vert	17100.000	AV	32.2	40.7	-0.6	32.1	-	40.2	53.9	13.7	Floor Noise
Vert	22800.000	AV	37.2	39.2	-1.0	32.0	-	43.4	53.9	10.5	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.2 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/21/2015	04/12/2015	04/13/2015
Temperature/ Humidity	22deg. C / 47% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5745MHz		

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	5715.000	PK	57.3	33.2	4.5	33.9	-	61.1	68.2	7.1	
Hori	5725.000	PK	72.0	33.2	4.5	33.9	-	75.8	78.2	2.4	
Hori	11490.000	PK	43.1	40.7	-2.0	33.2	-	48.6	73.9	25.3	Floor Noise
Hori	17235.000	PK	45.2	41.5	-0.5	32.2	-	54.0	73.9	19.9	Floor Noise
Hori	22980.000	PK	45.7	39.3	-1.0	32.0	-	52.0	73.9	21.9	Floor Noise
Hori	11490.000	AV	33.7	40.7	-2.0	33.2	-	39.2	53.9	14.7	Floor Noise
Hori	17235.000	AV	34.1	41.5	-0.5	32.2	-	42.9	53.9	11.0	Floor Noise
Hori	22980.000	AV	37.3	39.3	-1.0	32.0	-	43.6	53.9	10.3	Floor Noise
Vert	5715.000	PK	56.3	33.2	4.5	33.9	-	60.1	68.2	8.1	
Vert	5725.000	PK	71.8	33.2	4.5	33.9	-	75.6	78.2	2.6	
Vert	11490.000	PK	41.9	40.7	-2.0	33.2	-	47.4	73.9	26.5	Floor Noise
Vert	17235.000	PK	42.6	41.5	-0.5	32.2	-	51.4	73.9	22.5	Floor Noise
Vert	22980.000	PK	46.2	39.3	-1.0	32.0	-	52.5	73.9	21.4	Floor Noise
Vert	11490.000	AV	32.7	40.7	-2.0	33.2	-	38.2	53.9	15.7	Floor Noise
Vert	17235.000	AV	32.8	41.5	-0.5	32.2	-	41.6	53.9	12.3	Floor Noise
Vert	22980.000	AV	37.5	39.3	-1.0	32.0	-	43.8	53.9	10.1	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Ise EMC Lab.

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/20/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	23 deg. C / 52% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Takafumi Noguchi	Tomoki Matsui
	(1-10GHz)	(Below1GHz)	(10-40GHz)
Mode	11a Tx 5785MHz		

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	40.203	QP	23.2	14.1	7.3	28.5	-	16.1	40.0	23.9	
Hori	62.796	QP	23.1	7.0	7.6	28.4	-	9.3	40.0	30.7	
Hori	80.168	QP	22.9	6.8	7.9	28.4	-	9.2	40.0	30.8	
Hori	123.301	QP	22.9	13.0	8.4	28.1	-	16.2	43.5	27.3	
Hori	129.995	QP	23.0	13.6	8.5	28.1	-	17.0	43.5	26.5	
Hori	252.107	QP	21.7	17.3	9.5	27.6	-	20.9	46.0	25.1	
Hori	11570.000	PK	43.1	40.6	-2.0	33.2	-	48.5	73.9	25.4	Floor Noise
Hori	17355.000	PK	45.0	42.2	-0.5	32.3	-	54.4	73.9	19.5	Floor Noise
Hori	23140.000	PK	45.5	39.3	-1.0	32.0	-	51.8	73.9	22.1	Floor Noise
Hori	11570.000	AV	33.5	40.6	-2.0	33.2	-	38.9	53.9	15.0	Floor Noise
Hori	17355.000	AV	33.6	42.2	-0.5	32.3	-	43.0	53.9	10.9	Floor Noise
Hori	23140.000	AV	37.3	39.3	-1.0	32.0	-	43.6	53.9	10.3	Floor Noise
Vert	43.069	QP	23.4	13.0	7.3	28.5	-	15.2	40.0	24.8	
Vert	58.962	QP	23.3	7.7	7.6	28.4	-	10.2	40.0	29.8	
Vert	79.801	QP	23.1	6.7	7.9	28.4	-	9.3	40.0	30.7	
Vert	123.548	QP	22.8	13.0	8.4	28.1	-	16.1	43.5	27.4	
Vert	129.932	QP	23.0	13.6	8.5	28.1	-	17.0	43.5	26.5	
Vert	249.650	QP	21.6	17.1	9.5	27.6	-	20.6	46.0	25.4	
Vert	11570.000	PK	42.1	40.6	-2.0	33.2	-	47.5	73.9	26.4	Floor Noise
Vert	17355.000	PK	42.4	42.2	-0.5	32.3	-	51.8	73.9	22.1	Floor Noise
Vert	23140.000	PK	45.4	39.3	-1.0	32.0	-	51.7	73.9	22.2	Floor Noise
Vert	11570.000	AV	32.6	40.6	-2.0	33.2	-	38.0	53.9	15.9	Floor Noise
Vert	17355.000	AV	32.4	42.2	-0.5	32.3	-	41.8	53.9	12.1	Floor Noise
Vert	23140.000	AV	37.6	39.3	-1.0	32.0	-	43.9	53.9	10.0	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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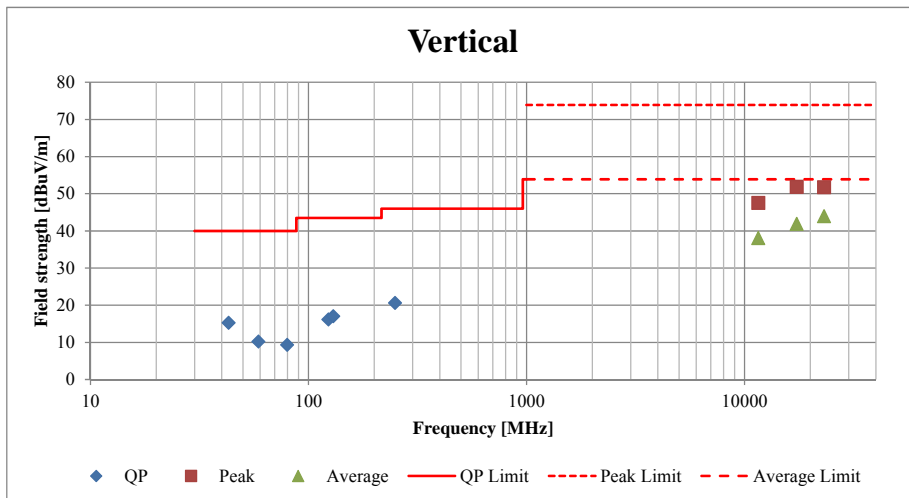
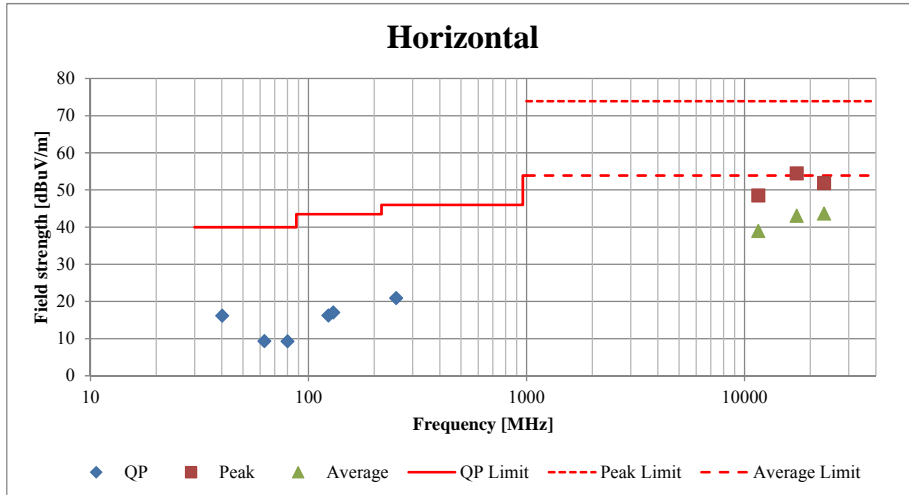
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Radiated Spurious Emission
(Plot data, Worst case)

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/20/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	23 deg. C / 52% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Takafumi Noguchi	Tomoki Matsui
	(1-10GHz)	(Below1GHz)	(10-40GHz)
Mode	11a Tx 5785MHz		



*These plots data contains sufficient number to show the trend of characteristic features for EUT.
 ANSI C63.10:2013 Clause 6.3.4 states “For radiated emission test data reporting, both plots and tabular data shall be included”.

Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/21/2015	04/12/2015	04/13/2015
Temperature/ Humidity	24deg. C / 40% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Keisuke Kawamura	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11a Tx 5825MHz		

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	66.9	33.4	4.5	34.0	-	70.8	78.2	7.4	
Hori	5860.000	PK	64.1	33.4	4.5	34.0	-	68.0	68.2	0.2	
Hori	11650.000	PK	44.1	40.5	-2.0	33.2	-	49.4	73.9	24.5	Floor Noise
Hori	17475.000	PK	45.3	42.8	-0.4	32.3	-	55.4	73.9	18.5	Floor Noise
Hori	23300.000	PK	45.8	39.3	-0.9	32.0	-	52.2	73.9	21.7	Floor Noise
Hori	11650.000	AV	34.1	40.5	-2.0	33.2	-	39.4	53.9	14.5	Floor Noise
Hori	17475.000	AV	33.4	42.8	-0.4	32.3	-	43.5	53.9	10.4	Floor Noise
Hori	23300.000	AV	37.6	39.3	-0.9	32.0	-	44.0	53.9	9.9	Floor Noise
Vert	5850.000	PK	68.1	33.4	4.5	34.0	-	72.0	78.2	6.2	
Vert	5860.000	PK	63.4	33.4	4.5	34.0	-	67.3	68.2	0.9	
Vert	11650.000	PK	43.2	40.5	-2.0	33.2	-	48.5	73.9	25.4	Floor Noise
Vert	17475.000	PK	43.0	42.8	-0.4	32.3	-	53.1	73.9	20.8	Floor Noise
Vert	23300.000	PK	46.0	39.3	-0.9	32.0	-	52.4	73.9	21.5	Floor Noise
Vert	11650.000	AV	33.1	40.5	-2.0	33.2	-	38.4	53.9	15.5	Floor Noise
Vert	17475.000	AV	33.7	42.8	-0.4	32.3	-	43.8	53.9	10.1	Floor Noise
Vert	23300.000	AV	37.6	39.3	-0.9	32.0	-	44.0	53.9	9.9	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015
Temperature/ Humidity : 20deg. C / 39% RH
Engineer : Takafumi Noguchi
(1-10GHz)
Mode : 11n-20 Tx 5180MHz

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	53.2	32.2	3.8	31.6	-	57.6	73.9	16.3	Integration Method
Hori	5150.000	AV	41.8	32.2	3.8	31.6	1.2	47.4	53.9	6.5	Integration Method *1)
Vert	5150.000	PK	54.1	32.2	3.8	31.6	-	58.5	73.9	15.4	Integration Method
Vert	5150.000	AV	41.0	32.2	3.8	31.6	1.2	46.6	53.9	7.3	Integration Method *1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz $20\log(3.0\text{m}/1.0\text{m})= 9.5\text{dB}$
26.5GHz-40GHz $20\log(3.0\text{m}/0.5\text{m})=15.6\text{dB}$

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

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015
Temperature/ Humidity : 20deg. C / 39% RH
Engineer : Takafumi Noguchi
(1-10GHz)
Mode : 11n-20 Tx 5320MHz

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	52.4	32.3	3.8	31.7	-	56.8	73.9	17.1	Integration Method
Hori	5350.000	AV	40.5	32.3	3.8	31.7	1.2	46.1	53.9	7.8	Integration Method *1)
Vert	5350.000	PK	50.8	32.3	3.8	31.7	-	55.2	73.9	18.7	Integration Method
Vert	5350.000	AV	38.6	32.3	3.8	31.7	1.2	44.2	53.9	9.7	Integration Method *1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz $20\log(3.0\text{m}/1.0\text{m})= 9.5\text{dB}$
26.5GHz-40GHz $20\log(3.0\text{m}/0.5\text{m})=15.6\text{dB}$

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

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015
Temperature/ Humidity : 20deg. C / 39% RH
Engineer : Takafumi Noguchi
(1-10GHz)
Mode : 11n-20 Tx 5500MHz

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	5470.000	PK	52.8	32.4	3.9	31.7	-	57.4	73.9	16.5	Integration Method
Hori	5470.000	AV	39.9	32.4	3.9	31.7	1.2	45.7	53.9	8.2	Integration Method *1)
Vert	5470.000	PK	52.7	32.4	3.9	31.7	-	57.3	73.9	16.6	Integration Method
Vert	5470.000	AV	39.2	32.4	3.9	31.7	1.2	45.0	53.9	8.9	Integration Method *1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015
Temperature/ Humidity : 20deg. C / 39% RH
Engineer : Takafumi Noguchi
(1-10GHz)
Mode : 11n-20 Tx 5700MHz

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	57.6	32.9	4.0	31.7	-	62.8	73.9	11.1	Integration Method
Hori	5725.000	AV	41.5	32.9	4.0	31.7	1.2	47.9	53.9	6.0	Integration Method *1)
Vert	5725.000	PK	55.9	32.9	4.0	31.7	-	61.1	73.9	12.8	Integration Method
Vert	5725.000	AV	41.6	32.9	4.0	31.7	1.2	48.0	53.9	5.9	Integration Method *1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz $20\log(3.0m/1.0m)= 9.5dB$
26.5GHz-40GHz $20\log(3.0m/0.5m)=15.6dB$

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

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
 Report No. : 10689818H
 Date : 04/21/2015
 Temperature/ Humidity : 24deg. C / 40% RH
 Engineer : Keisuke Kawamura
 (1-10GHz)
 Mode : 11n-20 Tx 5745MHz

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	5715.000	PK	58.0	33.2	4.5	33.9	-	61.8	68.2	6.4	
Hori	5725.000	PK	67.5	33.2	4.5	33.9	-	71.3	78.2	6.9	
Vert	5715.000	PK	57.5	33.2	4.5	33.9	-	61.3	68.2	6.9	
Vert	5725.000	PK	66.7	33.2	4.5	33.9	-	70.5	78.2	7.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz $20\log(3.0\text{m}/1.0\text{m})= 9.5\text{dB}$
 26.5GHz-40GHz $20\log(3.0\text{m}/0.5\text{m})=15.6\text{dB}$

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
 Report No. : 10689818H
 Date : 04/14/2015
 Temperature/ Humidity : 22deg. C / 51% RH
 Engineer : Tomoki Matsui
 (1-10GHz)
 Mode : 11n-20 Tx 5825MHz

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	56.3	33.1	4.0	31.7	-	61.7	73.9	12.2	
Hori	5850.000	AV	43.8	33.1	4.0	31.7	1.2	50.4	53.9	3.5	Integration Method *1)
Vert	5850.000	PK	55.5	33.1	4.0	31.7	-	60.9	73.9	13.0	
Vert	5850.000	AV	41.0	33.1	4.0	31.7	1.2	47.6	53.9	6.3	Integration Method *1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5180MHz		

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	48.9	32.2	3.8	31.6	-	53.3	73.9	20.6	
Hori	10360.000	PK	43.9	39.8	-2.4	33.3	-	48.0	73.9	25.9	Floor Noise
Hori	15540.000	PK	45.0	39.4	-0.9	32.3	-	51.1	73.9	22.8	Floor Noise
Hori	20720.000	PK	44.9	38.0	-1.6	32.6	-	48.7	73.9	25.2	Floor Noise
Hori	5150.000	AV	36.8	32.2	3.8	31.6	1.3	42.5	53.9	11.5	Integration Method *1)
Hori	10360.000	AV	33.0	39.8	-2.4	33.3	-	37.1	53.9	16.8	Floor Noise
Hori	15540.000	AV	33.5	39.4	-0.9	32.3	-	39.6	53.9	14.3	Floor Noise
Hori	20720.000	AV	36.1	38.0	-1.6	32.6	-	39.9	53.9	14.0	Floor Noise
Vert	5150.000	PK	47.9	32.2	3.8	31.6	-	52.3	73.9	21.6	
Vert	10360.000	PK	43.7	39.8	-2.4	33.3	-	47.8	73.9	26.1	Floor Noise
Vert	15540.000	PK	42.8	39.4	-0.9	32.3	-	48.9	73.9	25.0	Floor Noise
Vert	20720.000	PK	44.6	38.0	-1.6	32.6	-	48.4	73.9	25.5	Floor Noise
Vert	5150.000	AV	36.1	32.2	3.8	31.6	1.3	41.8	53.9	12.2	Integration Method *1)
Vert	10360.000	AV	36.1	39.8	-2.4	33.3	-	40.2	53.9	13.7	Floor Noise
Vert	15540.000	AV	34.3	39.4	-0.9	32.3	-	40.4	53.9	13.5	Floor Noise
Vert	20720.000	AV	36.5	38.0	-1.6	32.6	-	40.3	53.9	13.6	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5260MHz		

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	45.0	40.1	-2.0	33.3	-	49.8	73.9	24.1	Floor Noise
Hori	15780.000	PK	45.1	38.6	-0.7	32.2	-	50.7	73.9	23.2	Floor Noise
Hori	21040.000	PK	45.1	38.2	-1.6	32.7	-	49.0	73.9	24.9	Floor Noise
Hori	10520.000	AV	33.2	40.1	-2.0	33.3	-	38.0	53.9	15.9	Floor Noise
Hori	15780.000	AV	33.7	38.6	-0.7	32.2	-	39.3	53.9	14.6	Floor Noise
Hori	21040.000	AV	36.4	38.2	-1.6	32.7	-	40.3	53.9	13.6	Floor Noise
Vert	10520.000	PK	43.3	40.1	-2.0	33.3	-	48.1	73.9	25.8	Floor Noise
Vert	15780.000	PK	43.2	38.6	-0.7	32.2	-	48.8	73.9	25.1	Floor Noise
Vert	21040.000	PK	44.7	38.2	-1.6	32.7	-	48.6	73.9	25.3	Floor Noise
Vert	10520.000	AV	34.4	40.1	-2.0	33.3	-	39.2	53.9	14.7	Floor Noise
Vert	15780.000	AV	33.8	38.6	-0.7	32.2	-	39.4	53.9	14.5	Floor Noise
Vert	21040.000	AV	36.7	38.2	-1.6	32.7	-	40.6	53.9	13.3	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5320MHz		

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	49.3	32.3	3.8	31.7	-	53.7	73.9	20.2	
Hori	10640.000	PK	44.1	40.9	-2.1	33.3	-	49.7	73.9	24.2	Floor Noise
Hori	15960.000	PK	45.3	39.1	-0.6	32.1	-	51.6	73.9	22.3	Floor Noise
Hori	21280.000	PK	44.4	38.4	-1.5	32.6	-	48.7	73.9	25.2	Floor Noise
Hori	5350.000	AV	36.9	32.3	3.8	31.7	1.3	42.6	53.9	11.4	Integration Method *1)
Hori	10640.000	AV	34.1	40.9	-2.1	33.3	-	39.7	53.9	14.2	Floor Noise
Hori	15960.000	AV	33.4	39.1	-0.6	32.1	-	39.7	53.9	14.2	Floor Noise
Hori	21280.000	AV	36.3	38.4	-1.5	32.6	-	40.6	53.9	13.3	Floor Noise
Vert	5350.000	PK	47.8	32.3	3.8	31.7	-	52.2	73.9	21.7	
Vert	10640.000	PK	43.2	40.9	-2.1	33.3	-	48.8	73.9	25.1	Floor Noise
Vert	15960.000	PK	43.0	39.1	-0.6	32.1	-	49.3	73.9	24.6	Floor Noise
Vert	21280.000	PK	45.1	38.4	-1.5	32.6	-	49.4	73.9	24.5	Floor Noise
Vert	5350.000	AV	35.8	32.3	3.8	31.7	1.3	41.5	53.9	12.5	Integration Method *1)
Vert	10640.000	AV	33.1	40.9	-2.1	33.3	-	38.7	53.9	15.2	Floor Noise
Vert	15960.000	AV	33.7	39.1	-0.6	32.1	-	40.0	53.9	13.9	Floor Noise
Vert	21280.000	AV	36.4	38.4	-1.5	32.6	-	40.7	53.9	13.2	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5500MHz		

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	5470.000	PK	47.2	32.4	3.9	31.7	-	51.8	73.9	22.1	
Hori	11000.000	PK	44.1	40.9	-2.1	33.3	-	49.7	73.9	24.2	Floor Noise
Hori	16500.000	PK	45.3	39.1	-0.6	32.1	-	51.6	73.9	22.3	Floor Noise
Hori	22000.000	PK	44.6	38.9	-1.1	32.1	-	50.3	73.9	23.6	Floor Noise
Hori	5470.000	AV	36.4	32.4	3.9	31.7	1.3	42.3	53.9	11.7	Integration Method *1)
Hori	11000.000	AV	34.1	40.9	-2.1	33.3	-	39.7	53.9	14.2	Floor Noise
Hori	16500.000	AV	33.4	39.1	-0.6	32.1	-	39.7	53.9	14.2	Floor Noise
Hori	22000.000	AV	36.6	38.9	-1.1	32.1	-	42.3	53.9	11.6	Floor Noise
Vert	5470.000	PK	47.7	32.4	3.9	31.7	-	52.3	73.9	21.6	
Vert	11000.000	PK	43.2	40.9	-2.1	33.3	-	48.8	73.9	25.1	Floor Noise
Vert	16500.000	PK	43.0	39.1	-0.6	32.1	-	49.3	73.9	24.6	Floor Noise
Vert	22000.000	PK	45.0	38.9	-1.1	32.1	-	50.7	73.9	23.2	Floor Noise
Vert	5470.000	AV	35.3	32.4	3.9	31.7	1.3	41.2	53.9	12.8	Integration Method *1)
Vert	11000.000	AV	33.1	40.9	-2.1	33.3	-	38.7	53.9	15.2	Floor Noise
Vert	16500.000	AV	33.7	39.1	-0.6	32.1	-	40.0	53.9	13.9	Floor Noise
Vert	22000.000	AV	36.8	38.9	-1.1	32.1	-	42.5	53.9	11.4	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5580MHz		

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	11160.000	PK	45.1	40.8	-2.0	33.2	-	50.6	73.9	23.3	Floor Noise
Hori	16740.000	PK	44.3	39.6	-0.6	32.1	-	51.2	73.9	22.7	Floor Noise
Hori	22320.000	PK	45.2	39.0	-1.1	32.1	-	51.0	73.9	22.9	Floor Noise
Hori	11160.000	AV	33.9	40.8	-2.0	33.2	-	39.4	53.9	14.5	Floor Noise
Hori	16740.000	AV	33.6	39.6	-0.6	32.1	-	40.5	53.9	13.4	Floor Noise
Hori	22320.000	AV	36.9	39.0	-1.1	32.1	-	42.7	53.9	11.2	Floor Noise
Vert	11160.000	PK	45.0	40.8	-2.0	33.2	-	50.5	73.9	23.4	Floor Noise
Vert	16740.000	PK	44.7	39.6	-0.6	32.1	-	51.6	73.9	22.3	Floor Noise
Vert	22320.000	PK	45.8	39.0	-1.1	32.1	-	51.6	73.9	22.3	Floor Noise
Vert	11160.000	AV	33.2	40.8	-2.0	33.2	-	38.7	53.9	15.2	Floor Noise
Vert	16740.000	AV	33.6	39.6	-0.6	32.1	-	40.5	53.9	13.4	Floor Noise
Vert	22320.000	AV	36.9	39.0	-1.1	32.1	-	42.7	53.9	11.2	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5700MHz		

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	50.5	32.9	4.0	31.7	-	55.7	73.9	18.2	
Hori	11400.000	PK	45.2	40.7	-2.0	33.2	-	50.7	73.9	23.2	Floor Noise
Hori	17100.000	PK	45.5	40.7	-0.6	32.1	-	53.5	73.9	20.4	Floor Noise
Hori	22800.000	PK	46.3	39.2	-1.0	32.0	-	52.5	73.9	21.4	Floor Noise
Hori	5725.000	AV	37.7	32.9	4.0	31.7	1.3	44.2	53.9	9.8	Integration Method *1)
Hori	11400.000	AV	32.8	40.7	-2.0	33.2	-	38.3	53.9	15.6	Floor Noise
Hori	17100.000	AV	33.6	40.7	-0.6	32.1	-	41.6	53.9	12.3	Floor Noise
Hori	22800.000	AV	37.8	39.2	-1.0	32.0	-	44.0	53.9	9.9	Floor Noise
Vert	5725.000	PK	48.8	32.9	4.0	31.7	-	54.0	73.9	19.9	
Vert	11400.000	PK	44.1	40.7	-2.0	33.2	-	49.6	73.9	24.3	Floor Noise
Vert	17100.000	PK	43.2	40.7	-0.6	32.1	-	51.2	73.9	22.7	Floor Noise
Vert	22800.000	PK	45.6	39.2	-1.0	32.0	-	51.8	73.9	22.1	Floor Noise
Vert	5725.000	AV	36.5	32.9	4.0	31.7	1.3	43.0	53.9	11.0	Integration Method *1)
Vert	11400.000	AV	35.1	40.7	-2.0	33.2	-	40.6	53.9	13.3	Floor Noise
Vert	17100.000	AV	34.2	40.7	-0.6	32.1	-	42.2	53.9	11.7	Floor Noise
Vert	22800.000	AV	37.5	39.2	-1.0	32.0	-	43.7	53.9	10.2	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz $20\log(3.0\text{m}/1.0\text{m})= 9.5\text{dB}$

26.5GHz-40GHz $20\log(3.0\text{m}/0.5\text{m})=15.6\text{dB}$

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5745MHz		

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	54.5	32.9	4.0	31.7	-	59.7	73.9	14.2	
Hori	11490.000	PK	42.9	40.7	-2.0	33.2	-	48.4	73.9	25.5	Floor Noise
Hori	17235.000	PK	44.8	41.5	-0.5	32.2	-	53.6	73.9	20.3	Floor Noise
Hori	22980.000	PK	46.1	39.3	-1.0	32.0	-	52.4	73.9	21.5	Floor Noise
Hori	5725.000	AV	43.5	32.9	4.0	31.7	1.3	50.0	53.9	4.0	Integration Method *1)
Hori	11490.000	AV	32.7	40.7	-2.0	33.2	-	38.2	53.9	15.7	Floor Noise
Hori	17235.000	AV	33.6	41.5	-0.5	32.2	-	42.4	53.9	11.5	Floor Noise
Hori	22980.000	AV	37.5	39.3	-1.0	32.0	-	43.8	53.9	10.1	Floor Noise
Vert	5725.000	PK	53.3	32.9	4.0	31.7	-	58.5	73.9	15.4	
Vert	11490.000	PK	43.9	40.7	-2.0	33.2	-	49.4	73.9	24.5	Floor Noise
Vert	17235.000	PK	44.5	41.5	-0.5	32.2	-	53.3	73.9	20.6	Floor Noise
Vert	22980.000	PK	46.4	39.3	-1.0	32.0	-	52.7	73.9	21.2	Floor Noise
Vert	5725.000	AV	41.6	32.9	4.0	31.7	1.3	48.1	53.9	5.9	Integration Method *1)
Vert	11490.000	AV	34.7	40.7	-2.0	33.2	-	40.2	53.9	13.7	Floor Noise
Vert	17235.000	AV	33.7	41.5	-0.5	32.2	-	42.5	53.9	11.4	Floor Noise
Vert	22980.000	AV	37.6	39.3	-1.0	32.0	-	43.9	53.9	10.0	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg.C. / 39% RH	22deg.C. / 41% RH	24deg.C. / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5785MHz		

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	44.0	40.6	-2.0	33.2	-	49.4	73.9	24.5	Floor Noise
Hori	17355.000	PK	45.1	42.2	-0.5	32.3	-	54.5	73.9	19.4	Floor Noise
Hori	23140.000	PK	45.6	39.3	-1.0	32.0	-	51.9	73.9	22.0	Floor Noise
Hori	11570.000	AV	33.9	40.6	-2.0	33.2	-	39.3	53.9	14.6	Floor Noise
Hori	17355.000	AV	33.6	42.2	-0.5	32.3	-	43.0	53.9	10.9	Floor Noise
Hori	23140.000	AV	37.7	39.3	-1.0	32.0	-	44.0	53.9	9.9	Floor Noise
Vert	11570.000	PK	43.6	40.6	-2.0	33.2	-	49.0	73.9	24.9	Floor Noise
Vert	17355.000	PK	43.2	42.2	-0.5	32.3	-	52.6	73.9	21.3	Floor Noise
Vert	23140.000	PK	44.9	39.3	-1.0	32.0	-	51.2	73.9	22.7	Floor Noise
Vert	11570.000	AV	33.4	40.6	-2.0	33.2	-	38.8	53.9	15.1	Floor Noise
Vert	17355.000	AV	33.6	42.2	-0.5	32.3	-	43.0	53.9	10.9	Floor Noise
Vert	23140.000	AV	37.3	39.3	-1.0	32.0	-	43.6	53.9	10.3	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/12/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 41% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Ken Fujita	Tomoki Matsui
	(1-10GHz)	(10-18GHz)	(18-40GHz)
Mode	11ac-20 Tx 5825MHz		

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	52.7	33.1	4.0	31.7	-	58.1	73.9	15.8	
Hori	11650.000	PK	43.1	40.5	-2.0	33.2	-	48.4	73.9	25.5	Floor Noise
Hori	17475.000	PK	43.2	42.8	-0.4	32.3	-	53.3	73.9	20.6	Floor Noise
Hori	23300.000	PK	46.4	39.3	-0.9	32.0	-	52.8	73.9	21.1	Floor Noise
Hori	5850.000	AV	38.5	33.1	4.0	31.7	1.3	45.2	53.9	8.8	Integration Method *1)
Hori	11650.000	AV	34.2	40.5	-2.0	33.2	-	39.5	53.9	14.4	Floor Noise
Hori	17475.000	AV	33.3	42.8	-0.4	32.3	-	43.4	53.9	10.5	Floor Noise
Hori	23300.000	AV	37.7	39.3	-0.9	32.0	-	44.1	53.9	9.8	Floor Noise
Vert	5850.000	PK	51.4	33.1	4.0	31.7	-	56.8	73.9	17.1	
Vert	11650.000	PK	43.3	40.5	-2.0	33.2	-	48.6	73.9	25.3	Floor Noise
Vert	17475.000	PK	45.5	42.8	-0.4	32.3	-	55.6	73.9	18.3	Floor Noise
Vert	23300.000	PK	45.7	39.3	-0.9	32.0	-	52.1	73.9	21.8	Floor Noise
Vert	5850.000	AV	38.3	33.1	4.0	31.7	1.3	45.0	53.9	9.0	Integration Method *1)
Vert	11650.000	AV	33.2	40.5	-2.0	33.2	-	38.5	53.9	15.4	Floor Noise
Vert	17475.000	AV	33.4	42.8	-0.4	32.3	-	43.5	53.9	10.4	Floor Noise
Vert	23300.000	AV	37.5	39.3	-0.9	32.0	-	43.9	53.9	10.0	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

UL Japan, Inc.

Ise EMC Lab.

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	04/11/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Tomoki Matsui
	(1-10GHz)	(10-40GHz)
Mode	11n-40 Tx 5190MHz	

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	62.6	32.2	3.8	31.6	-	67.0	73.9	6.9	
Hori	10380.000	PK	42.4	39.8	-2.4	33.3	-	46.5	73.9	27.4	Floor Noise
Hori	15570.000	PK	44.3	39.3	-0.8	32.3	-	50.5	73.9	23.4	Floor Noise
Hori	20760.000	PK	44.8	38.1	-1.6	32.6	-	48.7	73.9	25.2	Floor Noise
Hori	5150.000	AV	43.8	32.2	3.8	31.6	1.8	50.0	53.9	3.9	Integration Method *1)
Hori	10380.000	AV	32.4	39.8	-2.4	33.3	-	36.5	53.9	17.4	Floor Noise
Hori	15570.000	AV	34.3	39.3	-0.8	32.3	-	40.5	53.9	13.4	Floor Noise
Hori	20760.000	AV	36.4	38.1	-1.6	32.6	-	40.3	53.9	13.6	Floor Noise
Vert	5150.000	PK	61.9	32.2	3.8	31.6	-	66.3	73.9	7.6	
Vert	10380.000	PK	42.7	39.8	-2.4	33.3	-	46.8	73.9	27.1	Floor Noise
Vert	15570.000	PK	43.7	39.3	-0.8	32.3	-	49.9	73.9	24.0	Floor Noise
Vert	20760.000	PK	44.9	38.1	-1.6	32.6	-	48.8	73.9	25.1	Floor Noise
Vert	5150.000	AV	43.4	32.2	3.8	31.6	1.8	49.6	53.9	4.3	Integration Method *1)
Vert	10380.000	AV	32.9	39.8	-2.4	33.3	-	37.0	53.9	16.9	Floor Noise
Vert	15570.000	AV	33.0	39.3	-0.8	32.3	-	39.2	53.9	14.7	Floor Noise
Vert	20760.000	AV	36.5	38.1	-1.6	32.6	-	40.4	53.9	13.5	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/13/2015	
Temperature/ Humidity	20deg. C / 39% RH	24deg. C / 42% RH	
Engineer	Takafumi Noguchi	Tomoki Matsui	
	(1-10GHz)	(10-40GHz)	
Mode	11n-40 Tx 5270MHz		

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	41.3	40.1	-2.4	33.3	-	45.7	73.9	28.2	Floor Noise
Hori	15810.000	PK	43.7	38.5	-0.7	32.2	-	49.3	73.9	24.6	Floor Noise
Hori	21080.000	PK	45.4	38.3	-1.6	32.7	-	49.4	73.9	24.5	Floor Noise
Hori	10540.000	AV	32.5	40.1	-2.4	33.3	-	36.9	53.9	17.0	Floor Noise
Hori	15810.000	AV	32.8	38.5	-0.7	32.2	-	38.4	53.9	15.5	Floor Noise
Hori	21080.000	AV	37.4	38.3	-1.6	32.7	-	41.4	53.9	12.5	Floor Noise
Vert	10540.000	PK	41.5	40.1	-2.4	33.3	-	45.9	73.9	28.0	Floor Noise
Vert	15810.000	PK	43.7	38.5	-0.7	32.2	-	49.3	73.9	24.6	Floor Noise
Vert	21080.000	PK	45.5	38.3	-1.6	32.7	-	49.5	73.9	24.4	Floor Noise
Vert	10540.000	AV	32.2	40.1	-2.4	33.3	-	36.6	53.9	17.3	Floor Noise
Vert	15810.000	AV	33.0	38.5	-0.7	32.2	-	38.6	53.9	15.3	Floor Noise
Vert	21080.000	AV	36.9	38.3	-1.6	32.7	-	40.9	53.9	13.0	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place Ise EMC Lab. No.4 Semi-anechoic Chamber
 Report No. 10689818H
 Date 04/11/2015 04/13/2015
 Temperature/ Humidity 20deg. C / 39% RH 24deg. C / 42% RH
 Engineer Takafumi Noguchi Tomoki Matsui
 (1-10GHz) (10-40GHz)
 Mode 11n-40 Tx 5310MHz

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	57.7	32.3	3.8	31.7	-	62.1	73.9	11.8	
Hori	10620.000	PK	42.0	40.3	-2.3	33.3	-	46.7	73.9	27.2	Floor Noise
Hori	15930.000	PK	43.4	38.2	-0.6	32.2	-	48.8	73.9	25.1	Floor Noise
Hori	21240.000	PK	44.6	38.4	-1.5	32.6	-	48.9	73.9	25.0	Floor Noise
Hori	5350.000	AV	42.6	32.3	3.8	31.7	1.8	48.8	53.9	5.1	Integration Method *1)
Hori	10620.000	AV	33.2	40.3	-2.3	33.3	-	37.9	53.9	16.0	Floor Noise
Hori	15930.000	AV	34.5	38.2	-0.6	32.2	-	39.9	53.9	14.0	Floor Noise
Hori	21240.000	AV	36.6	38.4	-1.5	32.6	-	40.9	53.9	13.0	Floor Noise
Vert	5350.000	PK	57.4	32.3	3.8	31.7	-	61.8	73.9	12.1	
Vert	10620.000	PK	42.1	40.3	-2.3	33.3	-	46.8	73.9	27.1	Floor Noise
Vert	15930.000	PK	43.8	38.2	-0.6	32.2	-	49.2	73.9	24.7	Floor Noise
Vert	21240.000	PK	44.4	38.4	-1.5	32.6	-	48.7	73.9	25.2	Floor Noise
Vert	5350.000	AV	42.2	32.3	3.8	31.7	1.8	48.4	53.9	5.5	Integration Method *1)
Vert	10620.000	AV	33.1	40.3	-2.3	33.3	-	37.8	53.9	16.1	Floor Noise
Vert	15930.000	AV	34.8	38.2	-0.6	32.2	-	40.2	53.9	13.7	Floor Noise
Vert	21240.000	AV	36.6	38.4	-1.5	32.6	-	40.9	53.9	13.0	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz $20\log(3.0m/1.0m)= 9.5dB$

 26.5GHz-40GHz $20\log(3.0m/0.5m)=15.6dB$

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

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015 04/13/2015 06/02/2015
Temperature/ Humidity : 20deg. C / 39% RH 24deg. C / 42% RH 24deg. C / 40% RH
Engineer : Takafumi Noguchi Tomoki Matsui Ken Fujita
Mode : (1-10GHz) (10-40GHz) (Band Edge)
 11n-40 Tx 5510MHz

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	57.3	32.2	4.0	31.2	-	62.3	73.9	11.6	
Hori	5470.000	PK	62.8	32.2	4.0	31.2	-	67.8	68.2	0.4	
Hori	11020.000	PK	42.3	40.9	-2.2	33.2	-	47.8	73.9	26.1	Floor Noise
Hori	16530.000	PK	44.0	39.1	-0.6	32.1	-	50.4	73.9	23.5	Floor Noise
Hori	22040.000	PK	45.7	38.9	-1.1	32.1	-	51.4	73.9	22.5	Floor Noise
Hori	5460.000	AV	45.0	32.2	4.0	31.2	1.8	51.8	53.9	2.1	*1)
Hori	11020.000	AV	33.0	40.9	-2.2	33.2	-	38.5	53.9	15.4	Floor Noise
Hori	16530.000	AV	35.1	39.1	-0.6	32.1	-	41.5	53.9	12.4	Floor Noise
Hori	22040.000	AV	36.3	38.9	-1.1	32.1	-	42.0	53.9	11.9	Floor Noise
Vert	5460.000	PK	56.8	32.2	4.0	31.2	-	61.8	73.9	12.1	
Vert	5470.000	PK	62.5	32.2	4.0	31.2	-	67.5	68.2	0.7	
Vert	11020.000	PK	42.1	40.9	-2.2	33.2	-	47.6	73.9	26.3	Floor Noise
Vert	16530.000	PK	44.1	39.1	-0.6	32.1	-	50.5	73.9	23.4	Floor Noise
Vert	22040.000	PK	45.0	38.9	-1.1	32.1	-	50.7	73.9	23.2	Floor Noise
Vert	5460.000	AV	44.6	32.2	4.0	31.2	1.8	51.4	53.9	2.5	*1)
Vert	11020.000	AV	33.6	40.9	-2.2	33.2	-	39.1	53.9	14.8	Floor Noise
Vert	16530.000	AV	34.9	39.1	-0.6	32.1	-	41.3	53.9	12.6	Floor Noise
Vert	22040.000	AV	36.5	38.9	-1.1	32.1	-	42.2	53.9	11.7	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	04/11/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Tomoki Matsui
	(1-10GHz)	(10-40GHz)
Mode	11n-40 Tx 5550MHz	

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	11100.000	PK	43.6	40.9	-2.1	33.2	-	49.2	73.9	24.7	
Hori	16650.000	PK	43.6	39.4	-0.6	32.1	-	50.3	73.9	23.6	Floor Noise
Hori	22200.000	PK	45.2	39.0	-1.1	32.1	-	51.0	73.9	22.9	Floor Noise
Hori	11100.000	AV	35.3	40.9	-2.1	33.2	1.8	42.7	53.9	11.2	*1)
Hori	16650.000	AV	35.0	39.4	-0.6	32.1	-	41.7	53.9	12.2	Floor Noise
Hori	22200.000	AV	37.0	39.0	-1.1	32.1	-	42.8	53.9	11.1	Floor Noise
Vert	11100.000	PK	45.1	40.9	-2.1	33.2	-	50.7	73.9	23.2	
Vert	16650.000	PK	43.0	39.4	-0.6	32.1	-	49.7	73.9	24.2	Floor Noise
Vert	22200.000	PK	44.7	39.0	-1.1	32.1	-	50.5	73.9	23.4	Floor Noise
Vert	11100.000	AV	36.2	40.9	-2.1	33.2	1.8	43.6	53.9	10.3	*1)
Vert	16650.000	AV	34.8	39.4	-0.6	32.1	-	41.5	53.9	12.4	Floor Noise
Vert	22200.000	AV	37.2	39.0	-1.1	32.1	-	43.0	53.9	10.9	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	04/11/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Tomoki Matsui
	(1-10GHz)	(10-40GHz)
Mode	11n-40 Tx 5670MHz	

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	55.8	32.9	4.0	31.7	-	61.0	73.9	12.9	
Hori	11340.000	PK	42.7	40.8	-2.2	33.2	-	48.1	73.9	25.8	
Hori	17010.000	PK	43.2	40.2	-0.6	32.1	-	50.7	73.9	23.2	Floor Noise
Hori	22680.000	PK	47.2	39.2	-1.0	32.0	-	53.4	73.9	20.5	Floor Noise
Hori	5725.000	AV	44.2	32.9	4.0	31.7	1.8	51.2	53.9	2.7	Integration Method *1)
Hori	11340.000	AV	34.7	40.8	-2.2	33.2	1.8	41.9	53.9	12.0	
Hori	17010.000	AV	35.0	40.2	-0.6	32.1	-	42.5	53.9	11.4	Floor Noise
Hori	22680.000	AV	37.2	39.2	-1.0	32.0	-	43.4	53.9	10.5	Floor Noise
Vert	5725.000	PK	55.9	32.9	4.0	31.7	-	61.1	73.9	12.8	
Vert	11340.000	PK	43.7	40.8	-2.2	33.2	-	49.1	73.9	24.8	
Vert	17010.000	PK	44.1	40.2	-0.6	32.1	-	51.6	73.9	22.3	Floor Noise
Vert	22680.000	PK	45.6	39.2	-1.0	32.0	-	51.8	73.9	22.1	Floor Noise
Vert	5725.000	AV	44.2	32.9	4.0	31.7	1.8	51.2	53.9	2.7	Integration Method *1)
Vert	11340.000	AV	35.1	40.8	-2.2	33.2	1.8	42.3	53.9	11.6	
Vert	17010.000	AV	34.9	40.2	-0.6	32.1	-	42.4	53.9	11.5	Floor Noise
Vert	22680.000	AV	37.2	39.2	-1.0	32.0	-	43.4	53.9	10.5	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/13/2015	06/02/2015
Temperature/ Humidity	20deg. C / 39% RH	24deg. C / 42% RH	24deg. C / 40% RH
Engineer	Takafumi Noguchi	Tomoki Matsui	Ken Fujita
	(1-10GHz)	(10-40GHz)	(Band Edge)
Mode	11n-40 Tx 5755MHz		

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	5715.000	PK	62.5	32.6	4.1	31.2	-	68.0	68.2	0.2	
Hori	5725.000	PK	64.2	32.6	4.2	31.2	-	69.8	78.2	8.4	
Hori	11510.000	PK	42.0	40.7	-2.0	33.2	-	47.5	68.2	20.7	Floor Noise
Hori	17265.000	PK	44.1	41.7	-0.5	32.2	-	53.1	78.2	25.1	Floor Noise
Hori	23020.000	PK	46.2	39.3	-1.0	32.0	-	52.5	78.2	25.7	Floor Noise
Hori	11510.000	AV	33.1	40.7	-2.0	33.2	-	38.6	53.9	15.3	Floor Noise
Hori	17265.000	AV	35.4	41.7	-0.5	32.2	-	44.4	53.9	9.5	Floor Noise
Hori	23020.000	AV	37.5	39.3	-1.0	32.0	-	43.8	53.9	10.1	Floor Noise
Vert	5715.000	PK	62.3	32.6	4.1	31.2	-	67.8	68.2	0.4	
Vert	5725.000	PK	63.9	32.6	4.2	31.2	-	69.5	78.2	8.7	
Vert	11510.000	PK	42.8	40.7	-2.0	33.2	-	48.3	73.9	25.6	Floor Noise
Vert	17265.000	PK	42.9	41.7	-0.5	32.2	-	51.9	73.9	22.0	Floor Noise
Vert	23020.000	PK	45.9	39.3	-1.0	32.0	-	52.2	73.9	21.7	Floor Noise
Vert	11510.000	AV	34.2	40.7	-2.0	33.2	-	39.7	53.9	14.2	Floor Noise
Vert	17265.000	AV	35.2	41.7	-0.5	32.2	-	44.2	53.9	9.7	Floor Noise
Vert	23020.000	AV	38.0	39.3	-1.0	32.0	-	44.3	53.9	9.6	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	04/11/2015	04/13/2015
Temperature/ Humidity	20deg. C / 39% RH	24deg. C / 42% RH
Engineer	Takafumi Noguchi	Tomoki Matsui
	(1-10GHz)	(10-40GHz)
Mode	11n-40 Tx 5795MHz	

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	55.6	33.1	4.0	31.7	-	61.0	73.9	12.9	
Hori	11590.000	PK	42.0	40.6	-1.9	33.2	-	47.5	73.9	26.4	Floor Noise
Hori	17385.000	PK	44.1	42.3	-0.4	32.3	-	53.7	73.9	20.2	Floor Noise
Hori	23180.000	PK	45.9	39.3	-0.9	32.0	-	52.3	73.9	21.6	Floor Noise
Hori	5850.000	AV	42.1	33.1	4.0	31.7	1.8	49.3	53.9	4.6	Integration Method *1)
Hori	11590.000	AV	33.1	40.6	-1.9	33.2	-	38.6	53.9	15.3	Floor Noise
Hori	17385.000	AV	35.4	42.3	-0.4	32.3	-	45.0	53.9	8.9	Floor Noise
Hori	23180.000	AV	37.8	39.3	-0.9	32.0	-	44.2	53.9	9.7	Floor Noise
Vert	5850.000	PK	56.2	33.1	4.0	31.7	-	61.6	73.9	12.3	
Vert	11590.000	PK	41.8	40.6	-1.9	33.2	-	47.3	73.9	26.6	Floor Noise
Vert	17385.000	PK	43.2	42.3	-0.4	32.3	-	52.8	73.9	21.1	Floor Noise
Vert	23180.000	PK	45.9	39.3	-0.9	32.0	-	52.3	73.9	21.6	Floor Noise
Vert	5850.000	AV	42.8	33.1	4.0	31.7	1.8	50.0	53.9	3.9	Integration Method *1)
Vert	11590.000	AV	33.4	40.6	-1.9	33.2	-	38.9	53.9	15.0	Floor Noise
Vert	17385.000	AV	34.9	42.3	-0.4	32.3	-	44.5	53.9	9.4	Floor Noise
Vert	23180.000	AV	37.7	39.3	-0.9	32.0	-	44.1	53.9	9.8	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

UL Japan, Inc.

Ise EMC Lab.

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Telephone : +81 596 24 8999

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015 04/19/2015
Temperature/ Humidity : 20deg. C / 39% RH 22deg. C / 37% RH
Engineer : Takafumi Noguchi Takafumi Noguchi
(1-10GHz) (10-40GHz)
Mode : 11ac-40 Tx 5190MHz

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	55.6	32.2	3.8	31.6	-	60.0	73.9	13.9	
Hori	10380.000	PK	40.7	39.8	-2.4	33.3	-	44.8	73.9	29.1	Floor Noise
Hori	15570.000	PK	41.8	39.3	-0.8	32.3	-	48.0	73.9	25.9	Floor Noise
Hori	20760.000	PK	45.5	38.1	-1.6	32.6	-	49.4	73.9	24.5	Floor Noise
Hori	25950.000	PK	47.4	39.2	-0.5	31.7	-	54.4	73.9	19.5	Floor Noise
Hori	5150.000	AV	40.4	32.2	3.8	31.6	1.4	46.2	53.9	7.8	Integration Method *1)
Hori	10380.000	AV	33.2	39.8	-2.4	33.3	-	37.3	53.9	16.6	Floor Noise
Hori	15570.000	AV	34.4	39.3	-0.8	32.3	-	40.6	53.9	13.3	Floor Noise
Hori	20760.000	AV	36.4	38.1	-1.6	32.6	-	40.3	53.9	13.6	Floor Noise
Hori	25950.000	AV	39.0	39.2	-0.5	31.7	-	46.0	53.9	7.9	Floor Noise
Vert	5150.000	PK	56.4	32.2	3.8	31.6	-	60.8	73.9	13.1	
Vert	10380.000	PK	41.1	39.8	-2.4	33.3	-	45.2	73.9	28.7	Floor Noise
Vert	15570.000	PK	41.9	39.3	-0.8	32.3	-	48.1	73.9	25.8	Floor Noise
Vert	20760.000	PK	44.8	38.1	-1.6	32.6	-	48.7	73.9	25.2	Floor Noise
Vert	25950.000	PK	47.5	39.2	-0.5	31.7	-	54.5	73.9	19.4	Floor Noise
Vert	5150.000	AV	43.1	32.2	3.8	31.6	1.4	48.9	53.9	5.0	Integration Method *1)
Vert	10380.000	AV	33.2	39.8	-2.4	33.3	-	37.3	53.9	16.6	Floor Noise
Vert	15570.000	AV	34.3	39.3	-0.8	32.3	-	40.5	53.9	13.4	Floor Noise
Vert	20760.000	AV	36.1	38.1	-1.6	32.6	-	40.0	53.9	13.9	Floor Noise
Vert	25950.000	AV	39.0	39.2	-0.5	31.7	-	46.0	53.9	7.9	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	04/11/2015	04/19/2015
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 37% RH
Engineer	Takafumi Noguchi	Takafumi Noguchi
	(1-10GHz)	(10-40GHz)
Mode	11ac-40 Tx 5270MHz	

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	40.1	40.1	-2.4	33.3	-	44.5	73.9	29.4	Floor Noise
Hori	15810.000	PK	42.3	38.5	-0.7	32.2	-	47.9	73.9	26.0	Floor Noise
Hori	21080.000	PK	45.1	38.3	-1.6	32.7	-	49.1	73.9	24.8	Floor Noise
Hori	26350.000	PK	46.7	39.4	-0.5	31.2	-	54.4	73.9	19.5	Floor Noise
Hori	10540.000	AV	32.2	40.1	-2.4	33.3	-	36.6	53.9	17.3	Floor Noise
Hori	15810.000	AV	34.1	38.5	-0.7	32.2	-	39.7	53.9	14.2	Floor Noise
Hori	21080.000	AV	35.9	38.3	-1.6	32.7	-	39.9	53.9	14.0	Floor Noise
Hori	26350.000	AV	38.4	39.4	-0.5	31.2	-	46.1	53.9	7.8	Floor Noise
Vert	10540.000	PK	40.7	40.1	-2.4	33.3	-	45.1	73.9	28.8	Floor Noise
Vert	15810.000	PK	41.5	38.5	-0.7	32.2	-	47.1	73.9	26.8	Floor Noise
Vert	21080.000	PK	45.1	38.3	-1.6	32.7	-	49.1	73.9	24.8	Floor Noise
Vert	26350.000	PK	46.7	39.4	-0.5	31.2	-	54.4	73.9	19.5	Floor Noise
Vert	10540.000	AV	32.4	40.1	-2.4	33.3	-	36.8	53.9	17.1	Floor Noise
Vert	15810.000	AV	34.7	38.5	-0.7	32.2	-	40.3	53.9	13.6	Floor Noise
Vert	21080.000	AV	36.2	38.3	-1.6	32.7	-	40.2	53.9	13.7	Floor Noise
Vert	26350.000	AV	38.3	39.4	-0.5	31.2	-	46.0	53.9	7.9	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber		
Report No.	10689818H		
Date	04/11/2015	04/19/2015	
Temperature/ Humidity	20deg. C / 39% RH	22deg. C / 37% RH	
Engineer	Takafumi Noguchi	Takafumi Noguchi	
	(1-10GHz)	(10-40GHz)	
Mode	11ac-40 Tx 5310MHz		

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	32.3	3.8	31.7	-	60.5	73.9	13.4	
Hori	10620.000	PK	39.9	40.3	-2.3	33.3	-	44.6	73.9	29.3	Floor Noise
Hori	15930.000	PK	42.8	38.2	-0.6	32.2	-	48.2	73.9	25.7	Floor Noise
Hori	21240.000	PK	45.5	38.4	-1.5	32.6	-	49.8	73.9	24.1	Floor Noise
Hori	5350.000	AV	40.2	32.3	3.8	31.7	1.4	46.0	53.9	8.0	Integration Method *1)
Hori	10620.000	AV	32.6	40.3	-2.3	33.3	-	37.3	53.9	16.6	Floor Noise
Hori	15930.000	AV	34.9	38.2	-0.6	32.2	-	40.3	53.9	13.6	Floor Noise
Hori	21240.000	AV	36.2	38.4	-1.5	32.6	-	40.5	53.9	13.4	Floor Noise
Vert	5350.000	PK	53.5	32.3	3.8	31.7	-	57.9	73.9	16.0	
Vert	10620.000	PK	41.8	40.3	-2.3	33.3	-	46.5	73.9	27.4	Floor Noise
Vert	15930.000	PK	43.4	38.2	-0.6	32.2	-	48.8	73.9	25.1	Floor Noise
Vert	21240.000	PK	44.7	38.4	-1.5	32.6	-	49.0	73.9	24.9	Floor Noise
Vert	5350.000	AV	38.1	32.3	3.8	31.7	1.4	43.9	53.9	10.1	Integration Method *1)
Vert	10620.000	AV	34.0	40.3	-2.3	33.3	-	38.7	53.9	15.2	Floor Noise
Vert	15930.000	AV	35.1	38.2	-0.6	32.2	-	40.5	53.9	13.4	Floor Noise
Vert	21240.000	AV	36.4	38.4	-1.5	32.6	-	40.7	53.9	13.2	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No.	10689818H
Date	04/11/2015 04/19/2015
Temperature/ Humidity	20deg. C / 39% RH 22deg. C / 37% RH
Engineer	Takafumi Noguchi Takafumi Noguchi
	(1-10GHz) (10-40GHz)
Mode	11ac-40 Tx 5510MHz

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	5470.000	PK	53.4	32.4	3.9	31.7	-	58.0	73.9	15.9	
Hori	11020.000	PK	41.3	40.9	-2.2	33.2	-	46.8	73.9	27.1	Floor Noise
Hori	16530.000	PK	43.3	39.1	-0.6	32.1	-	49.7	73.9	24.2	Floor Noise
Hori	22040.000	PK	44.4	38.9	-1.1	32.1	-	50.1	73.9	23.8	Floor Noise
Hori	5470.000	AV	40.2	32.4	3.9	31.7	1.4	46.2	53.9	7.8	Integration Method *1)
Hori	11020.000	AV	33.0	40.9	-2.2	33.2	-	38.5	53.9	15.4	Floor Noise
Hori	16530.000	AV	35.4	39.1	-0.6	32.1	-	41.8	53.9	12.1	Floor Noise
Hori	22040.000	AV	35.9	38.9	-1.1	32.1	-	41.6	53.9	12.3	Floor Noise
Vert	5470.000	PK	54.8	32.4	3.9	31.7	-	59.4	73.9	14.5	
Vert	11020.000	PK	41.9	40.9	-2.2	33.2	-	47.4	73.9	26.5	Floor Noise
Vert	16530.000	PK	42.8	39.1	-0.6	32.1	-	49.2	73.9	24.7	Floor Noise
Vert	22040.000	PK	44.5	38.9	-1.1	32.1	-	50.2	73.9	23.7	Floor Noise
Vert	5470.000	AV	39.4	32.4	3.9	31.7	1.4	45.4	53.9	8.6	Integration Method *1)
Vert	11020.000	AV	34.2	40.9	-2.2	33.2	-	39.7	53.9	14.2	Floor Noise
Vert	16530.000	AV	35.4	39.1	-0.6	32.1	-	41.8	53.9	12.1	Floor Noise
Vert	22040.000	AV	35.7	38.9	-1.1	32.1	-	41.4	53.9	12.5	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015 04/19/2015
Temperature/ Humidity : 20deg. C / 39% RH 22deg. C / 37% RH
Engineer : Takafumi Noguchi Takafumi Noguchi
(1-10GHz) (10-40GHz)
Mode : 11ac-40 Tx 5550MHz

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	11100.000	PK	40.6	40.9	-2.1	33.2	-	46.2	73.9	27.7	Floor Noise
Hori	16650.000	PK	42.9	39.4	-0.6	32.1	-	49.6	73.9	24.3	Floor Noise
Hori	22200.000	PK	44.9	39.0	-1.1	32.1	-	50.7	73.9	23.2	Floor Noise
Hori	11100.000	AV	33.4	40.9	-2.1	33.2	-	39.0	53.9	14.9	Floor Noise
Hori	16650.000	AV	34.9	39.4	-0.6	32.1	-	41.6	53.9	12.3	Floor Noise
Hori	22200.000	AV	36.8	39.0	-1.1	32.1	-	42.6	53.9	11.3	Floor Noise
Vert	11100.000	PK	41.8	40.9	-2.1	33.2	-	47.4	73.9	26.5	Floor Noise
Vert	16650.000	PK	44.0	39.4	-0.6	32.1	-	50.7	73.9	23.2	Floor Noise
Vert	22200.000	PK	44.5	39.0	-1.1	32.1	-	50.3	73.9	23.6	Floor Noise
Vert	11100.000	AV	34.5	40.9	-2.1	33.2	-	40.1	53.9	13.8	Floor Noise
Vert	16650.000	AV	35.1	39.4	-0.6	32.1	-	41.8	53.9	12.1	Floor Noise
Vert	22200.000	AV	36.4	39.0	-1.1	32.1	-	42.2	53.9	11.7	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 04/11/2015 04/19/2015
Temperature/ Humidity : 20deg. C / 39% RH 22deg. C / 37% RH
Engineer : Takafumi Noguchi Takafumi Noguchi
 (1-10GHz) (10-40GHz)
Mode : 11ac-40 Tx 5670MHz

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	48.3	32.9	4.0	31.7	-	53.5	73.9	20.4	
Hori	11340.000	PK	41.7	40.8	-2.2	33.2	-	47.1	73.9	26.8	Floor Noise
Hori	17010.000	PK	42.8	40.2	-0.6	32.1	-	50.3	73.9	23.6	Floor Noise
Hori	22680.000	PK	46.0	39.2	-1.0	32.0	-	52.2	73.9	21.7	Floor Noise
Hori	5725.000	AV	35.9	32.9	4.0	31.7	1.4	42.5	53.9	11.5	Integration Method *1)
Hori	11340.000	AV	33.4	40.8	-2.2	33.2	-	38.8	53.9	15.1	Floor Noise
Hori	17010.000	AV	35.1	40.2	-0.6	32.1	-	42.6	53.9	11.3	Floor Noise
Hori	22680.000	AV	36.7	39.2	-1.0	32.0	-	42.9	53.9	11.0	Floor Noise
Vert	5725.000	PK	47.5	32.9	4.0	31.7	-	52.7	73.9	21.2	
Vert	11340.000	PK	41.3	40.8	-2.2	33.2	-	46.7	73.9	27.2	Floor Noise
Vert	17010.000	PK	42.5	40.2	-0.6	32.1	-	50.0	73.9	23.9	Floor Noise
Vert	22680.000	PK	45.6	39.2	-1.0	32.0	-	51.8	73.9	22.1	Floor Noise
Vert	5725.000	AV	35.4	32.9	4.0	31.7	1.4	42.0	53.9	12.0	Integration Method *1)
Vert	11340.000	AV	34.3	40.8	-2.2	33.2	-	39.7	53.9	14.2	Floor Noise
Vert	17010.000	AV	34.9	40.2	-0.6	32.1	-	42.4	53.9	11.5	Floor Noise
Vert	22680.000	AV	37.0	39.2	-1.0	32.0	-	43.2	53.9	10.7	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place Ise EMC Lab. No.4 Semi-anechoic Chamber
 Report No. 10689818H
 Date 04/21/2015 04/19/2015
 Temperature/ Humidity 24deg. C / 40% RH 22deg. C / 37% RH
 Engineer Keisuke Kawamura Takafumi Noguchi
 (1-10GHz) (10-40GHz)
 Mode 11ac-40 Tx 5755MHz

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	5715.000	PK	62.9	33.2	4.5	33.9	-	66.7	68.2	1.5	
Hori	5725.000	PK	66.6	33.2	4.5	33.9	-	70.4	78.2	7.8	
Hori	11510.000	PK	41.4	40.7	-2.0	33.2	-	46.9	73.9	27.0	Floor Noise
Hori	17265.000	PK	42.4	41.7	-0.5	32.2	-	51.4	73.9	22.5	Floor Noise
Hori	23020.000	PK	45.4	39.3	-1.0	32.0	-	51.7	73.9	22.2	Floor Noise
Hori	11510.000	AV	33.0	40.7	-2.0	33.2	-	38.5	53.9	15.4	Floor Noise
Hori	17265.000	AV	35.1	41.7	-0.5	32.2	-	44.1	53.9	9.8	Floor Noise
Hori	23020.000	AV	37.1	39.3	-1.0	32.0	-	43.4	53.9	10.5	Floor Noise
Vert	5715.000	PK	63.6	33.2	4.5	33.9	-	67.4	68.2	0.8	
Vert	5725.000	PK	66.2	33.2	4.5	33.9	-	70.0	78.2	8.2	
Vert	11510.000	PK	42.8	40.7	-2.0	33.2	-	48.3	73.9	25.6	Floor Noise
Vert	17265.000	PK	43.8	41.7	-0.5	32.2	-	52.8	73.9	21.1	Floor Noise
Vert	23020.000	PK	45.7	39.3	-1.0	32.0	-	52.0	73.9	21.9	Floor Noise
Vert	11510.000	AV	35.2	40.7	-2.0	33.2	-	40.7	53.9	13.2	Floor Noise
Vert	17265.000	AV	35.2	41.7	-0.5	32.2	-	44.2	53.9	9.7	Floor Noise
Vert	23020.000	AV	37.3	39.3	-1.0	32.0	-	43.6	53.9	10.3	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No.	10689818H
Date	04/11/2015 04/19/2015
Temperature/ Humidity	20deg. C / 39% RH 22deg. C / 37% RH
Engineer	Takafumi Noguchi Takafumi Noguchi
	(1-10GHz) (10-40GHz)
Mode	11ac-40 Tx 5795MHz

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	52.0	33.1	4.0	31.7	-	57.4	73.9	16.5	
Hori	11590.000	PK	40.8	40.6	-1.9	33.2	-	46.3	73.9	27.6	Floor Noise
Hori	17385.000	PK	43.0	42.3	-0.4	32.3	-	52.6	73.9	21.3	Floor Noise
Hori	23180.000	PK	45.2	39.3	-0.9	32.0	-	51.6	73.9	22.3	Floor Noise
Hori	5850.000	AV	37.0	33.1	4.0	31.7	1.4	43.8	53.9	10.2	Integration Method *1)
Hori	11590.000	AV	33.2	40.6	-1.9	33.2	-	38.7	53.9	15.2	Floor Noise
Hori	17385.000	AV	35.2	42.3	-0.4	32.3	-	44.8	53.9	9.1	Floor Noise
Hori	23180.000	AV	36.9	39.3	-0.9	32.0	-	43.3	53.9	10.6	Floor Noise
Vert	5850.000	PK	50.4	33.1	4.0	31.7	-	55.8	73.9	18.1	
Vert	11590.000	PK	41.4	40.6	-1.9	33.2	-	46.9	73.9	27.0	Floor Noise
Vert	17385.000	PK	43.3	42.3	-0.4	32.3	-	52.9	73.9	21.0	Floor Noise
Vert	23180.000	PK	45.9	39.3	-0.9	32.0	-	52.3	73.9	21.6	Floor Noise
Vert	5850.000	AV	36.1	33.1	4.0	31.7	1.4	42.9	53.9	11.1	Integration Method *1)
Vert	11590.000	AV	33.5	40.6	-1.9	33.2	-	39.0	53.9	14.9	Floor Noise
Vert	17385.000	AV	35.1	42.3	-0.4	32.3	-	44.7	53.9	9.2	Floor Noise
Vert	23180.000	AV	36.8	39.3	-0.9	32.0	-	43.2	53.9	10.7	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

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

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

 26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	05/18/2015	04/19/2015
Temperature/ Humidity	23deg. C / 64% RH	22deg. C / 37% RH
Engineer	Tomoki Matsui	Takafumi Noguchi
	(1-10GHz)	(10-40GHz)
Mode	11ac-80 Tx 5210MHz	

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	5126.083	PK	57.9	32.2	3.7	31.6	-	62.2	73.9	11.7	
Hori	5150.000	PK	52.9	32.2	3.8	31.6	-	57.3	73.9	16.6	
Hori	10420.000	PK	41.4	39.9	-2.4	33.3	-	45.6	73.9	28.3	Floor Noise
Hori	15630.000	PK	43.4	39.1	-0.8	32.3	-	49.4	73.9	24.5	Floor Noise
Hori	20840.000	PK	44.1	38.1	-1.6	32.6	-	48.0	73.9	25.9	Floor Noise
Hori	26050.000	PK	47.0	39.3	-0.5	31.6	-	54.2	73.9	19.7	Floor Noise
Hori	5126.083	AV	45.9	32.2	3.7	31.6	1.3	51.5	53.9	2.4	*1)
Hori	5150.000	AV	42.5	32.2	3.8	31.6	1.3	48.2	53.9	5.7	*1)
Hori	10420.000	AV	33.2	39.9	-2.4	33.3	-	37.4	53.9	16.5	Floor Noise
Hori	15630.000	AV	34.7	39.1	-0.8	32.3	-	40.7	53.9	13.2	Floor Noise
Hori	20840.000	AV	35.7	38.1	-1.6	32.6	-	39.6	53.9	14.3	Floor Noise
Hori	26050.000	AV	38.3	39.3	-0.5	31.6	-	45.5	53.9	8.4	Floor Noise
Vert	5134.057	PK	58.6	32.2	3.7	31.6	-	62.9	73.9	11.0	
Vert	5150.000	PK	53.0	32.2	3.8	31.6	-	57.4	73.9	16.5	
Vert	10420.000	PK	42.0	39.9	-2.4	33.3	-	46.2	73.9	27.7	Floor Noise
Vert	15630.000	PK	43.0	39.1	-0.8	32.3	-	49.0	73.9	24.9	Floor Noise
Vert	20840.000	PK	44.1	38.1	-1.6	32.6	-	48.0	73.9	25.9	Floor Noise
Vert	26050.000	PK	47.0	39.3	-0.5	31.6	-	54.2	73.9	19.7	Floor Noise
Vert	5134.057	AV	46.0	32.2	3.7	31.6	1.3	51.6	53.9	2.3	*1)
Vert	5150.000	AV	41.9	32.2	3.8	31.6	1.3	47.6	53.9	6.3	*1)
Vert	10420.000	AV	33.4	39.9	-2.4	33.3	-	37.6	53.9	16.3	Floor Noise
Vert	15630.000	AV	34.4	39.1	-0.8	32.3	-	40.4	53.9	13.5	Floor Noise
Vert	20840.000	AV	36.0	38.1	-1.6	32.6	-	39.9	53.9	14.0	Floor Noise
Vert	26050.000	AV	38.2	39.3	-0.5	31.6	-	45.4	53.9	8.5	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty Factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. : 10689818H
Date : 05/18/2015 04/19/2015
Temperature/ Humidity : 23deg. C / 64% RH 22deg. C / 37% RH
Engineer : Tomoki Matsui Takafumi Noguchi
(1-10GHz) (10-40GHz)
Mode : 11ac-80 Tx 5290MHz

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	54.8	32.3	3.8	31.7	-	59.2	73.9	14.7	
Hori	5351.943	PK	58.3	32.3	3.8	31.7	-	62.7	73.9	11.2	
Hori	10580.000	PK	40.8	40.2	-2.4	33.3	-	45.3	73.9	28.6	Floor Noise
Hori	15870.000	PK	40.9	38.3	-0.7	32.2	-	46.3	73.9	27.6	Floor Noise
Hori	21160.000	PK	44.9	38.3	-1.5	32.7	-	49.0	73.9	24.9	Floor Noise
Hori	26450.000	PK	46.7	39.4	-0.5	31.0	-	54.6	73.9	19.3	Floor Noise
Hori	5350.000	AV	42.5	32.3	3.8	31.7	1.3	48.2	53.9	5.7	*1)
Hori	5351.943	AV	46.8	32.3	3.8	31.7	1.3	52.5	53.9	1.4	*1)
Hori	10580.000	AV	32.8	40.2	-2.4	33.3	-	37.3	53.9	16.6	Floor Noise
Hori	15870.000	AV	33.0	38.3	-0.7	32.2	-	38.4	53.9	15.5	Floor Noise
Hori	21160.000	AV	36.7	38.3	-1.5	32.7	-	40.8	53.9	13.1	Floor Noise
Hori	26450.000	AV	38.4	39.4	-0.5	31.0	-	46.3	53.9	7.6	Floor Noise
Vert	5350.000	PK	54.4	32.3	3.8	31.7	-	58.8	73.9	15.1	
Vert	5382.479	PK	56.2	32.3	3.8	31.7	-	60.6	73.9	13.3	
Vert	10580.000	PK	41.6	40.2	-2.4	33.3	-	46.1	73.9	27.8	Floor Noise
Vert	15870.000	PK	42.8	38.3	-0.7	32.2	-	48.2	73.9	25.7	Floor Noise
Vert	21160.000	PK	44.8	38.3	-1.5	32.7	-	48.9	73.9	25.0	Floor Noise
Vert	26450.000	PK	47.7	39.4	-0.5	31.0	-	55.6	73.9	18.3	Floor Noise
Vert	5350.000	AV	42.5	32.3	3.8	31.7	1.3	48.2	53.9	5.7	*1)
Vert	5382.479	AV	45.1	32.3	3.8	31.7	1.3	50.8	53.9	3.1	*1)
Vert	10580.000	AV	32.7	40.2	-2.4	33.3	-	37.2	53.9	16.7	Floor Noise
Vert	15870.000	AV	35.0	38.3	-0.7	32.2	-	40.4	53.9	13.5	Floor Noise
Vert	21160.000	AV	35.9	38.3	-1.5	32.7	-	40.0	53.9	13.9	Floor Noise
Vert	26450.000	AV	38.3	39.4	-0.5	31.0	-	46.2	53.9	7.7	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty Factor

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

Distance factor: 10GHz-26.5GHz $20\log(3.0m/1.0m)= 9.5dB$

26.5GHz-40GHz $20\log(3.0m/0.5m)=15.6dB$

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

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	05/18/2015	04/19/2015
Temperature/ Humidity	23deg. C / 64% RH	22deg. C / 37% RH
Engineer	Tomoki Matsui	Takafumi Noguchi
	(1-10GHz)	(10-40GHz)
Mode	11ac-80 Tx 5530MHz	

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	5445.667	PK	60.7	32.4	3.9	31.7	-	65.3	73.9	8.6	
Hori	5460.000	PK	52.6	32.4	3.9	31.7	-	57.2	73.9	16.7	
Hori	5470.000	PK	53.0	32.4	3.9	31.7	-	57.6	73.9	16.3	
Hori	11060.000	PK	41.1	40.9	-2.2	33.2	-	46.6	73.9	27.3	Floor Noise
Hori	16590.000	PK	44.1	39.3	-0.6	32.1	-	50.7	73.9	23.2	Floor Noise
Hori	22120.000	PK	44.3	38.9	-1.1	32.1	-	50.0	73.9	23.9	Floor Noise
Hori	5445.667	AV	46.4	32.4	3.9	31.7	1.3	52.3	53.9	1.6	*1)
Hori	5460.000	AV	42.7	32.4	3.9	31.7	1.3	48.6	53.9	5.3	*1)
Hori	5470.000	AV	40.8	32.4	3.9	31.7	1.3	46.7	53.9	7.2	*1)
Hori	11060.000	AV	33.1	40.9	-2.2	33.2	-	38.6	53.9	15.3	Floor Noise
Hori	16590.000	AV	35.3	39.3	-0.6	32.1	-	41.9	53.9	12.0	Floor Noise
Hori	22120.000	AV	36.0	38.9	-1.1	32.1	-	41.7	53.9	12.2	Floor Noise
Vert	5457.375	PK	59.3	32.4	3.9	31.7	-	63.9	73.9	10.0	
Vert	5460.000	PK	54.5	32.4	3.9	31.7	-	59.1	73.9	14.8	
Vert	5470.000	PK	51.1	32.4	3.9	31.7	-	55.7	73.9	18.2	
Vert	11060.000	PK	41.0	40.9	-2.2	33.2	-	46.5	73.9	27.4	Floor Noise
Vert	16590.000	PK	44.2	39.3	-0.6	32.1	-	50.8	73.9	23.1	Floor Noise
Vert	22120.000	PK	45.6	38.9	-1.1	32.1	-	51.3	73.9	22.6	Floor Noise
Vert	5457.375	AV	47.0	32.4	3.9	31.7	1.3	52.9	53.9	1.0	*1)
Vert	5460.000	AV	41.0	32.4	3.9	31.7	1.3	46.9	53.9	7.0	*1)
Vert	5470.000	AV	39.2	32.4	3.9	31.7	1.3	45.1	53.9	8.8	*1)
Vert	11060.000	AV	33.2	40.9	-2.2	33.2	-	38.7	53.9	15.2	Floor Noise
Vert	16590.000	AV	35.1	39.3	-0.6	32.1	-	41.7	53.9	12.2	Floor Noise
Vert	22120.000	AV	36.2	38.9	-1.1	32.1	-	41.9	53.9	12.0	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty Factor

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.4 Semi-anechoic Chamber	
Report No.	10689818H	
Date	05/18/2015	04/19/2015
Temperature/ Humidity	23deg. C / 64% RH	22deg. C / 37% RH
Engineer	Tomoki Matsui	Takafumi Noguchi
	(1-10GHz)	(10-40GHz)
Mode	11ac-80 Tx 5610MHz	

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	42.9	32.9	4.0	31.7	-	48.1	73.9	25.8	
Hori	11220.000	PK	41.3	40.8	-2.1	33.2	-	46.8	73.9	27.1	Floor Noise
Hori	16830.000	PK	44.1	39.8	-0.6	32.1	-	51.2	73.9	22.7	Floor Noise
Hori	22440.000	PK	45.0	39.1	-1.0	32.1	-	51.0	73.9	22.9	Floor Noise
Hori	5725.000	AV	33.5	32.9	4.0	31.7	1.3	40.0	53.9	13.9	*1)
Hori	11220.000	AV	33.1	40.8	-2.1	33.2	-	38.6	53.9	15.3	Floor Noise
Hori	16830.000	AV	35.3	39.8	-0.6	32.1	-	42.4	53.9	11.5	Floor Noise
Hori	22440.000	AV	36.3	39.1	-1.0	32.1	-	42.3	53.9	11.6	Floor Noise
Vert	5725.000	PK	41.5	32.9	4.0	31.7	-	46.7	73.9	27.2	
Vert	11220.000	PK	42.2	40.8	-2.1	33.2	-	47.7	73.9	26.2	Floor Noise
Vert	16830.000	PK	43.2	39.8	-0.6	32.1	-	50.3	73.9	23.6	Floor Noise
Vert	22440.000	PK	44.2	39.1	-1.0	32.1	-	50.2	73.9	23.7	Floor Noise
Vert	5725.000	AV	33.2	32.9	4.0	31.7	1.3	39.7	53.9	14.2	*1)
Vert	11220.000	AV	34.0	40.8	-2.1	33.2	-	39.5	53.9	14.4	Floor Noise
Vert	16830.000	AV	35.1	39.8	-0.6	32.1	-	42.2	53.9	11.7	Floor Noise
Vert	22440.000	AV	36.6	39.1	-1.0	32.1	-	42.6	53.9	11.3	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty Factor

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

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

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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

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Radiated Spurious Emission

Test place Ise EMC Lab. No.4 Semi-anechoic Chamber
Report No. 10689818H
Date 05/18/2015 04/19/2015
Temperature/ Humidity 23deg. C / 64% RH 22deg. C / 37% RH
Engineer Tomoki Matsui Takafumi Noguchi
(1-10GHz) (10-40GHz)
Mode 11ac-80 Tx 5775MHz

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	5687.681	PK	56.6	32.8	3.9	31.7	-	61.6	68.2	6.6	
Hori	5715.000	PK	50.6	32.8	4.0	31.7	-	55.7	68.2	12.5	
Hori	5725.000	PK	51.9	32.9	4.0	31.7	-	57.1	78.2	21.1	
Hori	5850.000	PK	55.6	33.1	4.0	31.7	-	61.0	78.2	17.2	
Hori	5860.000	PK	50.9	33.1	4.0	31.7	-	56.3	68.2	11.9	
Hori	5867.369	PK	55.9	33.2	4.0	31.7	-	61.4	68.2	6.8	
Hori	11550.000	PK	42.0	40.6	-2.0	33.2	-	47.4	73.9	26.5	Floor Noise
Hori	17325.000	PK	44.3	42.0	-0.5	32.3	-	53.5	73.9	20.4	Floor Noise
Hori	22750.000	PK	44.9	39.2	-1.0	32.0	-	51.1	73.9	22.8	Floor Noise
Hori	11550.000	AV	33.2	40.6	-2.0	33.2	-	38.6	53.9	15.3	Floor Noise
Hori	17325.000	AV	35.1	42.0	-0.5	32.3	-	44.3	53.9	9.6	Floor Noise
Hori	22750.000	AV	36.5	39.2	-1.0	32.0	-	42.7	53.9	11.2	Floor Noise
Vert	5691.040	PK	62.0	32.8	3.9	31.7	-	67.0	68.2	1.2	
Vert	5715.000	PK	52.8	32.8	4.0	31.7	-	57.9	68.2	10.3	
Vert	5725.000	PK	53.5	32.9	4.0	31.7	-	58.7	78.2	19.5	
Vert	5850.000	PK	53.5	33.1	4.0	31.7	-	58.9	78.2	19.3	
Vert	5860.000	PK	50.8	33.1	4.0	31.7	-	56.2	68.2	12.0	
Vert	5870.885	PK	55.9	33.2	4.0	31.7	-	61.4	68.2	6.8	
Vert	11550.000	PK	42.4	40.6	-2.0	33.2	-	47.8	73.9	26.1	Floor Noise
Vert	17325.000	PK	44.1	42.0	-0.5	32.3	-	53.3	73.9	20.6	Floor Noise
Vert	22750.000	PK	44.9	39.2	-1.0	32.0	-	51.1	73.9	22.8	Floor Noise
Vert	11550.000	AV	33.3	40.6	-2.0	33.2	-	38.7	53.9	15.2	Floor Noise
Vert	17325.000	AV	35.2	42.0	-0.5	32.3	-	44.4	53.9	9.5	Floor Noise
Vert	22750.000	AV	36.6	39.2	-1.0	32.0	-	42.8	53.9	11.1	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

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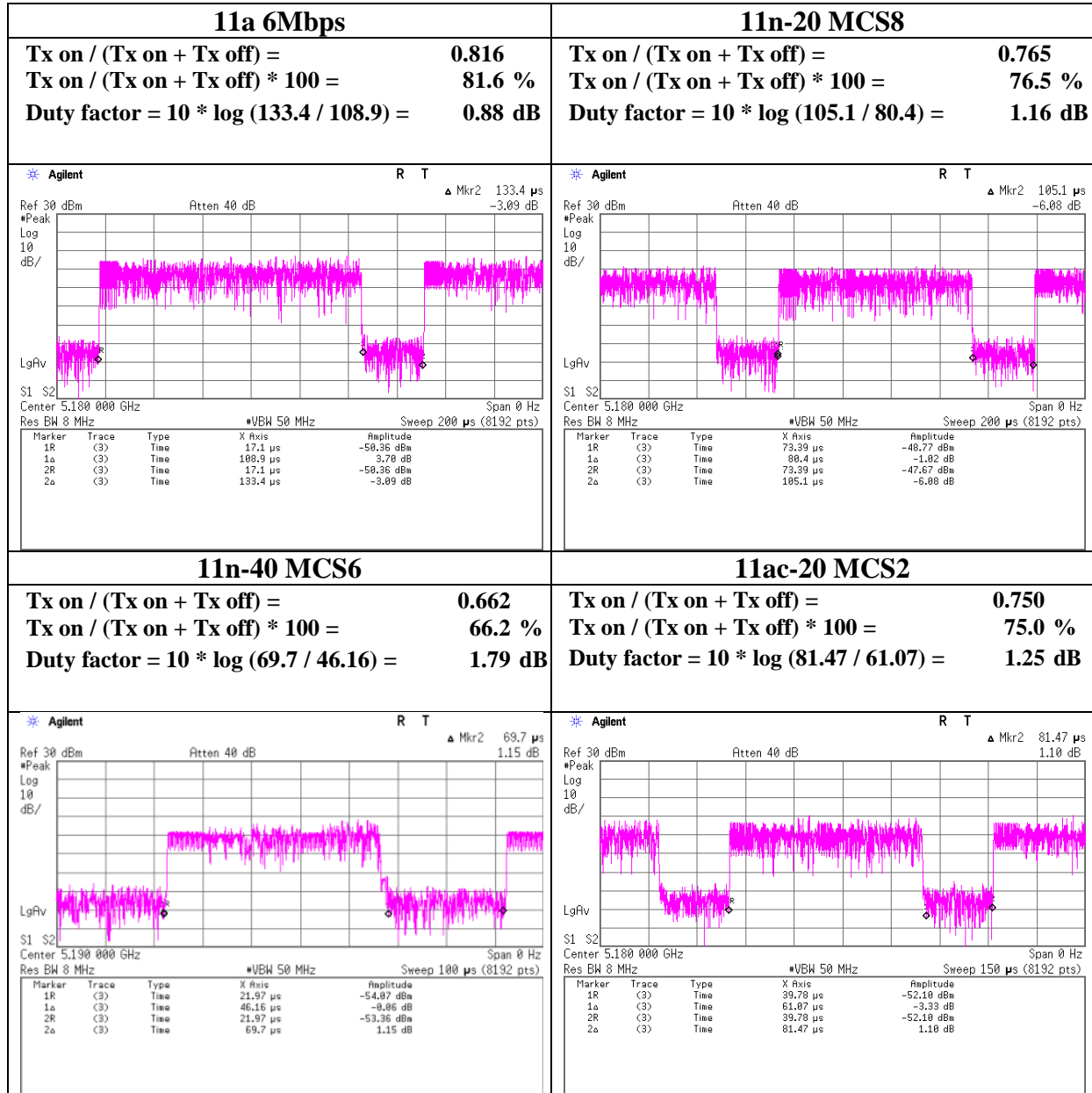
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Facsimile : +81 596 24 8124

Duty Cycle

Test place : Ise EMC Lab. No.11 Measurement Room
 Report No. : 10689818H
 Date : 04/10/2015
 Temperature/ Humidity : 23deg. C / 33% RH
 Engineer : Tomoki Matsui
 Mode : 11a / 11n-20 / 11n-40 / 11ac-20 Tx

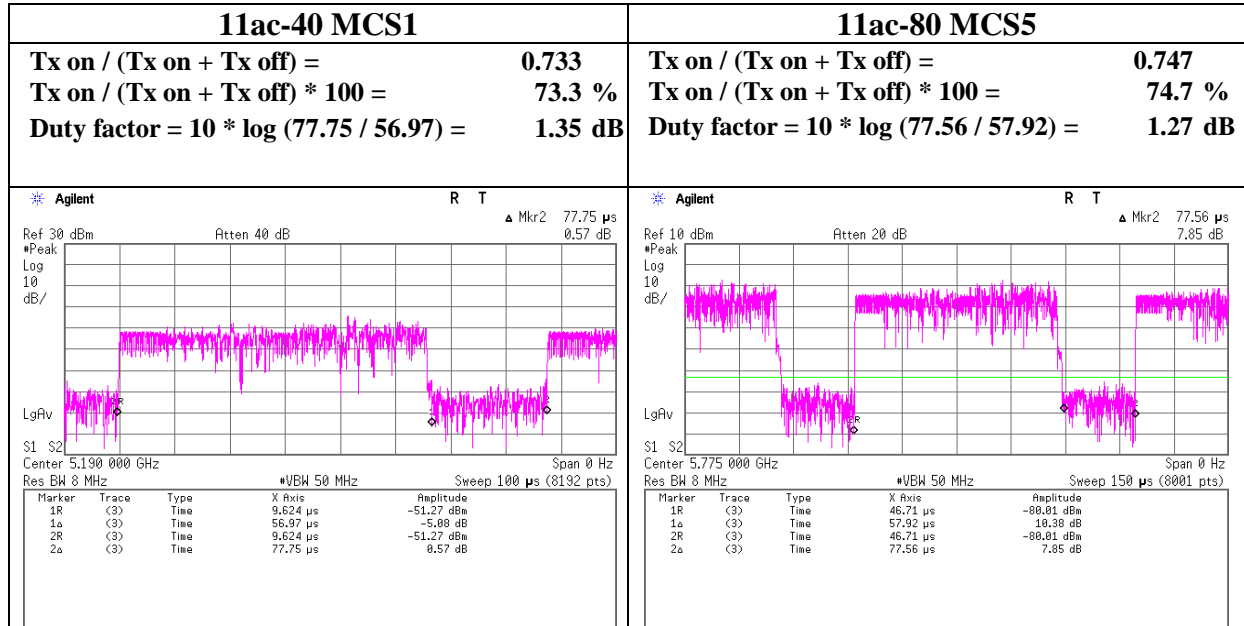


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Duty Cycle

Test place	Ise EMC Lab. No.11 Measurement Room	
Report No.	10689818H	
Date	04/10/2015	05/18/2015
Temperature/ Humidity	23deg. C / 33% RH	25deg. C / 49% RH
Engineer	Tomoki Matsui	Tomoki Matsui
Mode	11ac-40 / 11ac-80 Tx	



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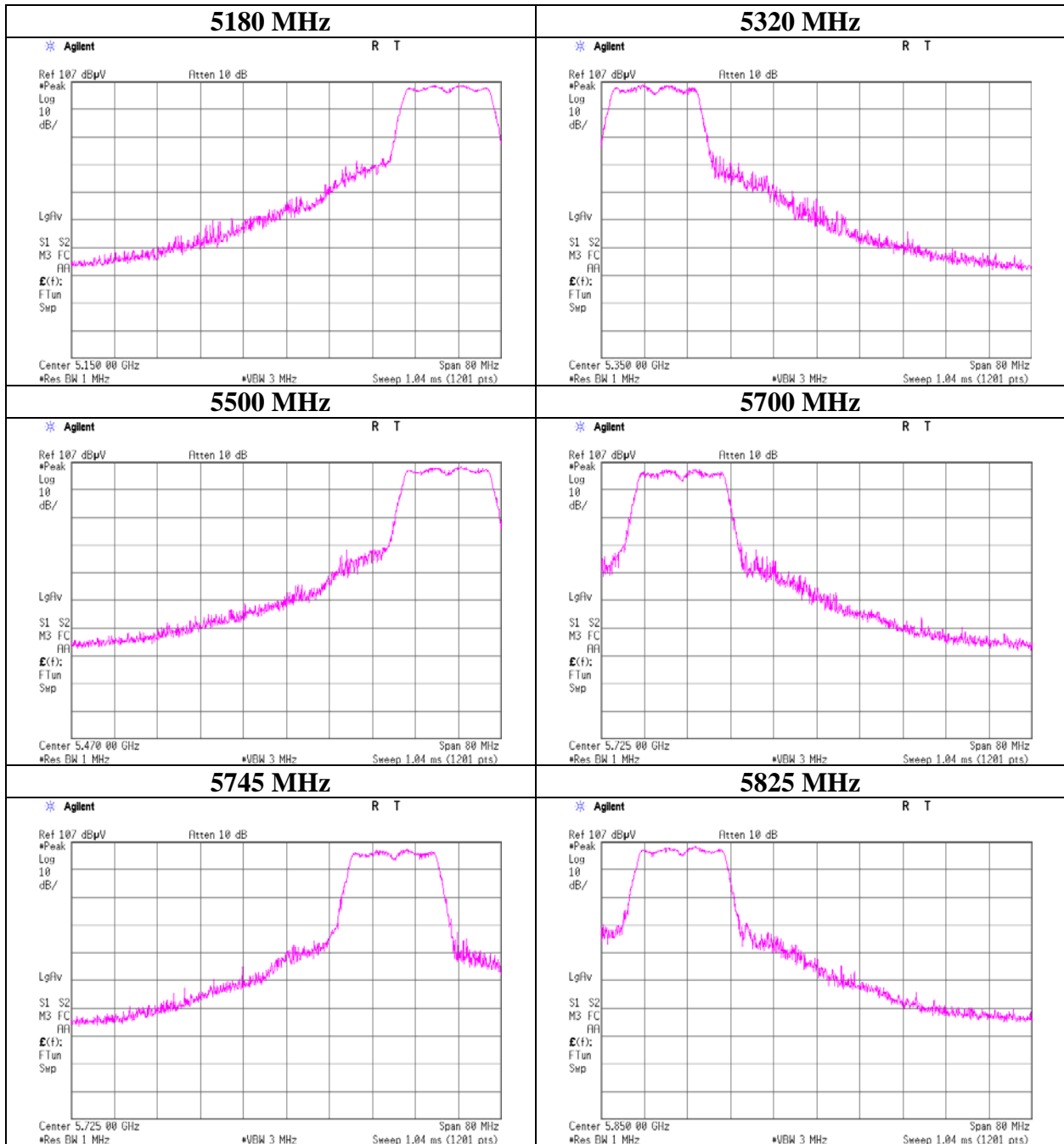
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Band Edge confirmation

Test place : Ise EMC Lab. No.11 Measurement Room
 Report No. : 10689818H
 Date : 06/03/2015
 Temperature/ Humidity : 24deg. C / 55% RH
 Engineer : Takafumi Noguchi
 Mode : 11a Tx

11a Peak detect

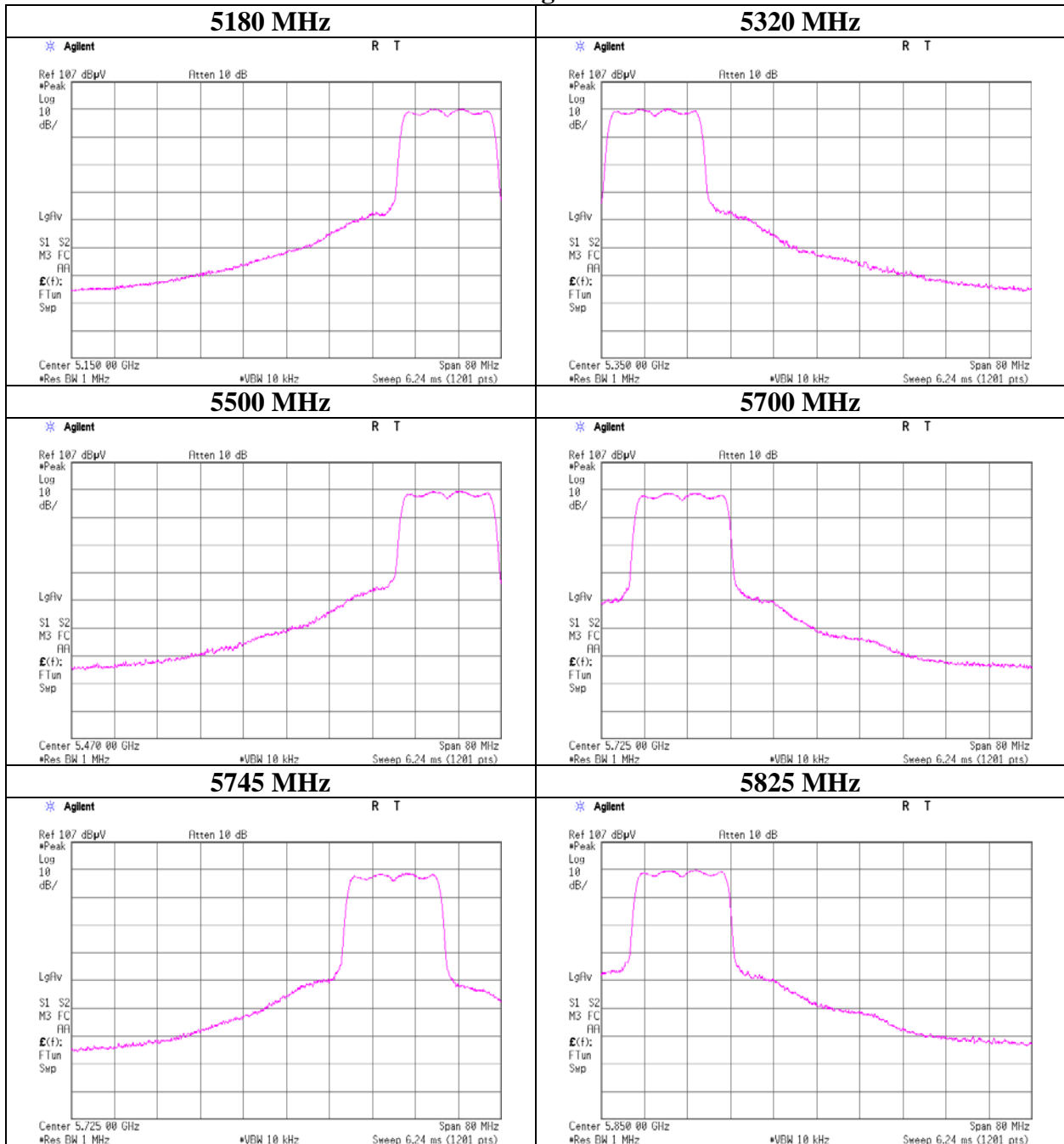


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place : Ise EMC Lab. No.11 Measurement Room
 Report No. : 10689818H
 Date : 06/03/2015
 Temperature/ Humidity : 24deg. C / 55% RH
 Engineer : Takafumi Noguchi
 Mode : 11a Tx

11a Average detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

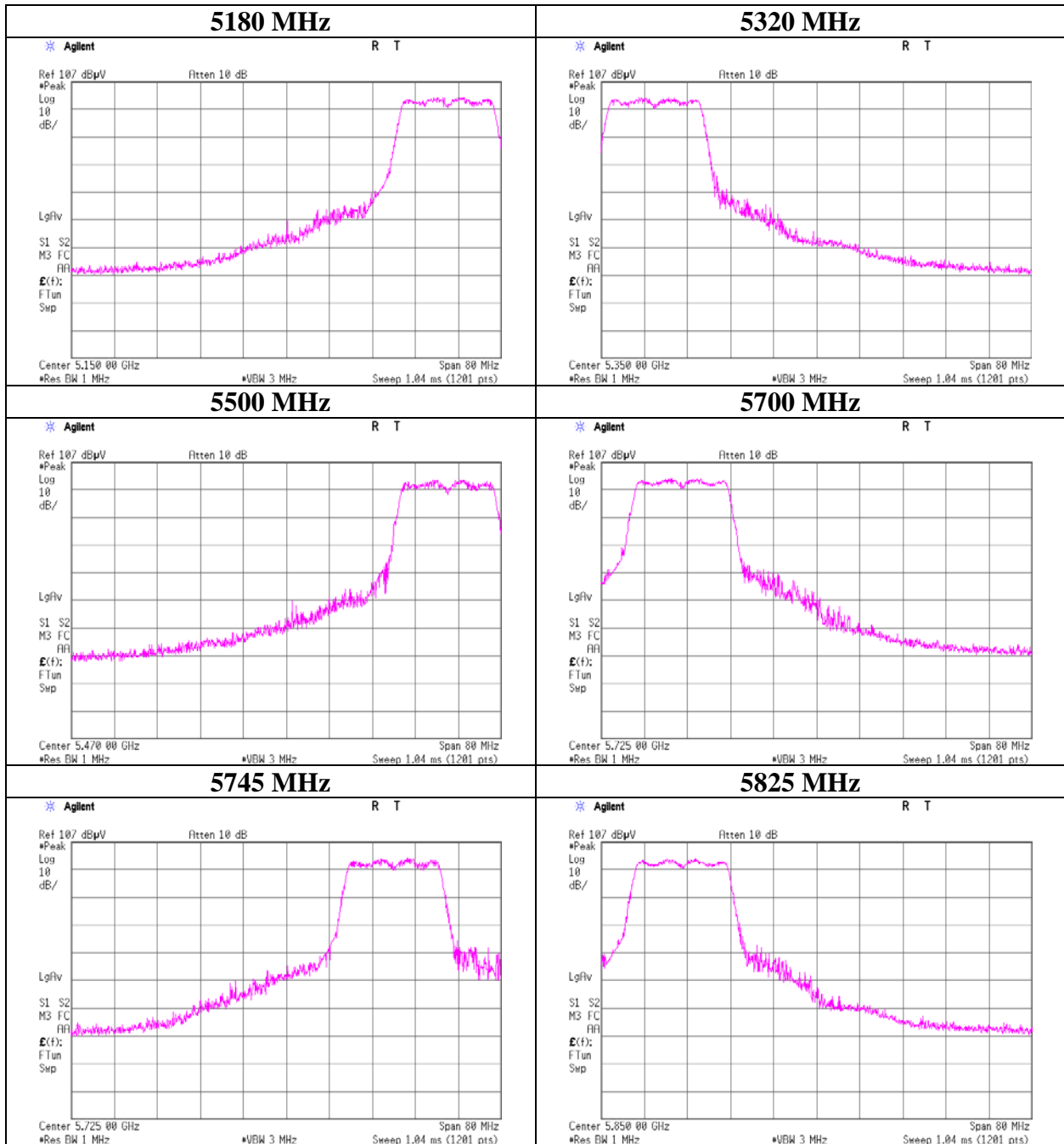
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Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10689818H
Date	06/03/2015
Temperature/ Humidity	24deg. C / 55% RH
Engineer	Takafumi Noguchi
Mode	11n-20 Tx

11n-20 Peak detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

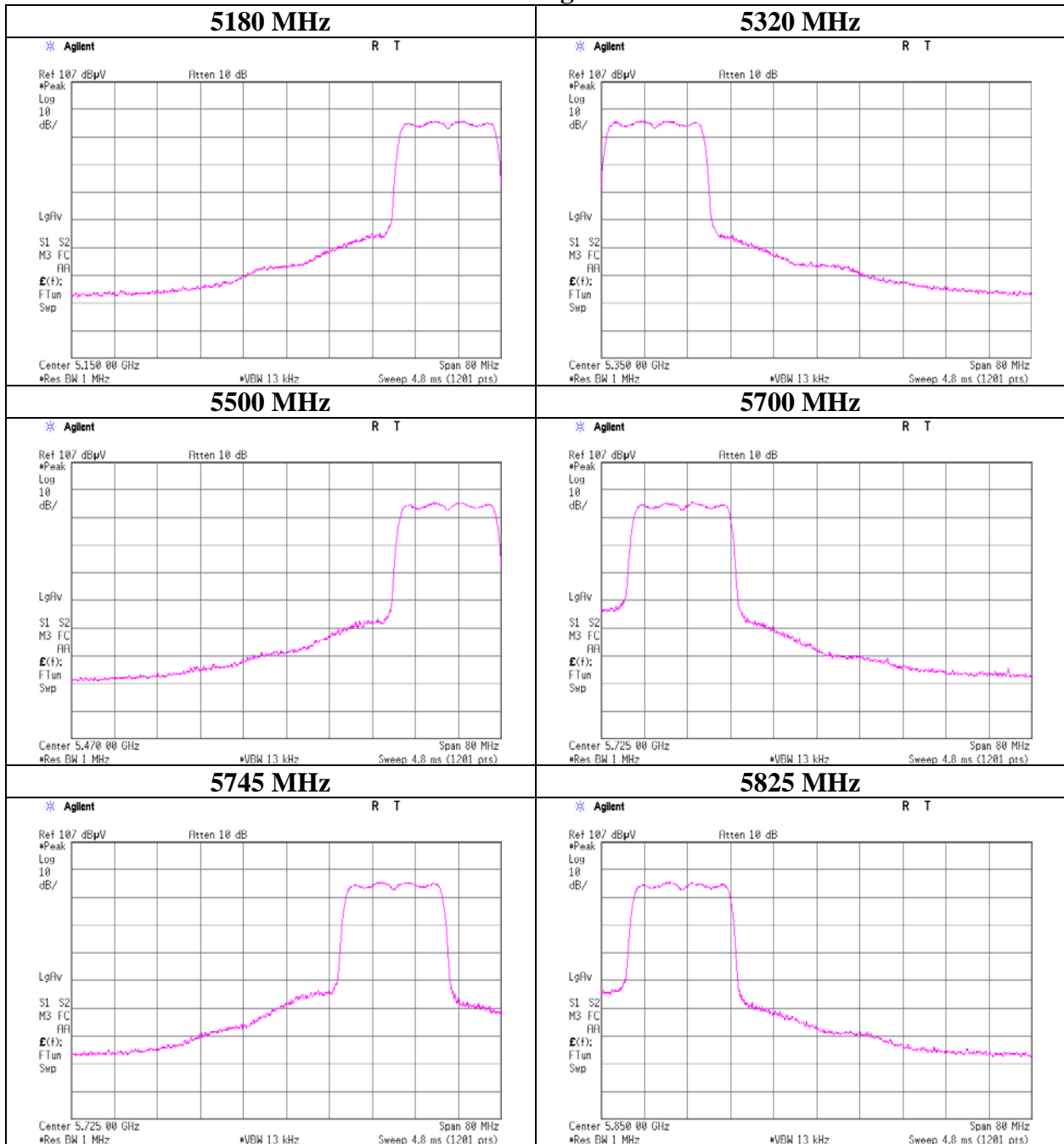
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Band Edge confirmation

Test place : Ise EMC Lab. No.11 Measurement Room
 Report No. : 10689818H
 Date : 06/03/2015
 Temperature/ Humidity : 24deg. C / 55% RH
 Engineer : Takafumi Noguchi
 Mode : 11n-20 Tx

11n-20 Average detect

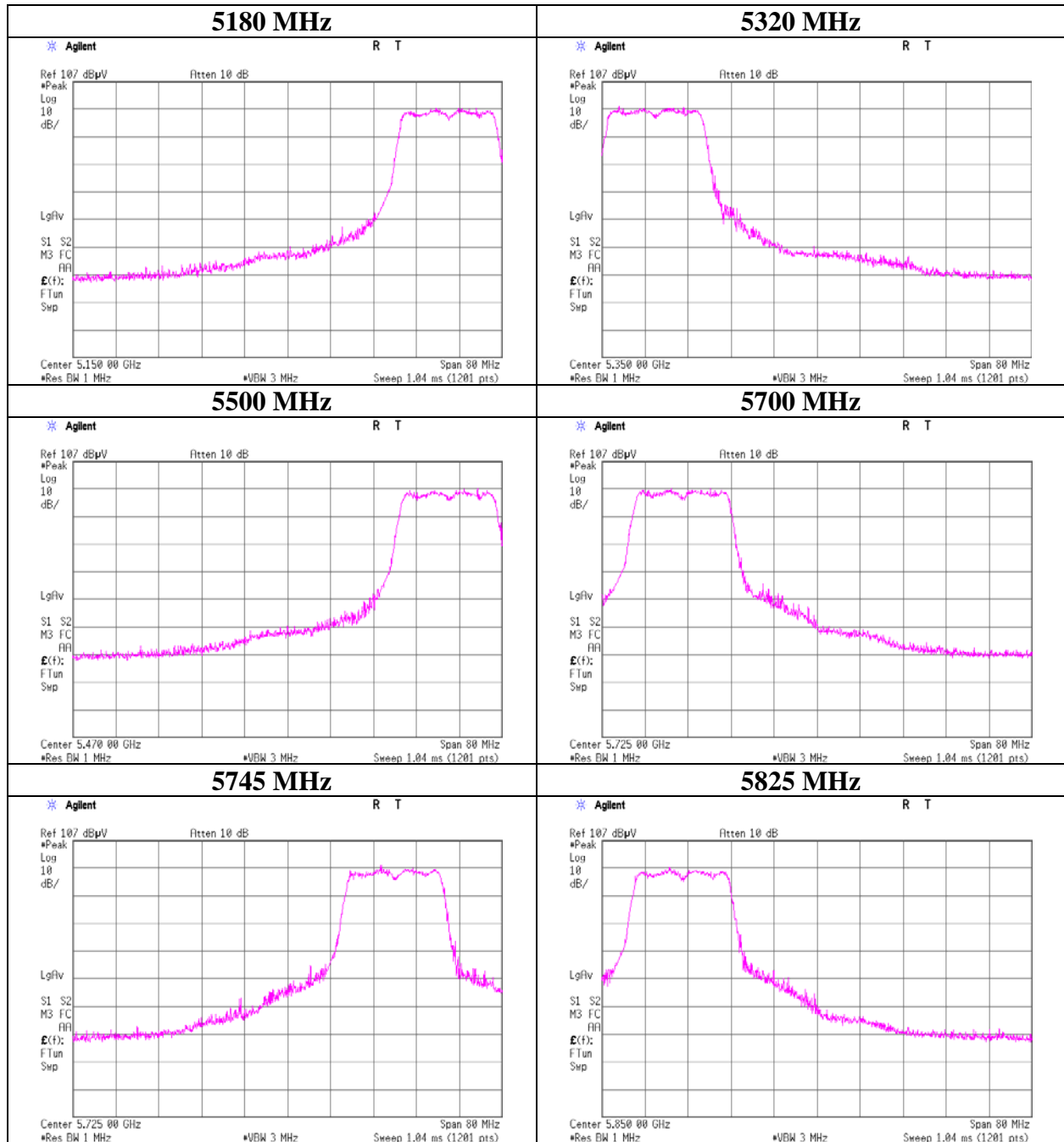


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10689818H
Date	06/03/2015
Temperature/ Humidity	24deg. C / 55% RH
Engineer	Takafumi Noguchi
Mode	11ac-20 Tx

11ac-20 Peak detect

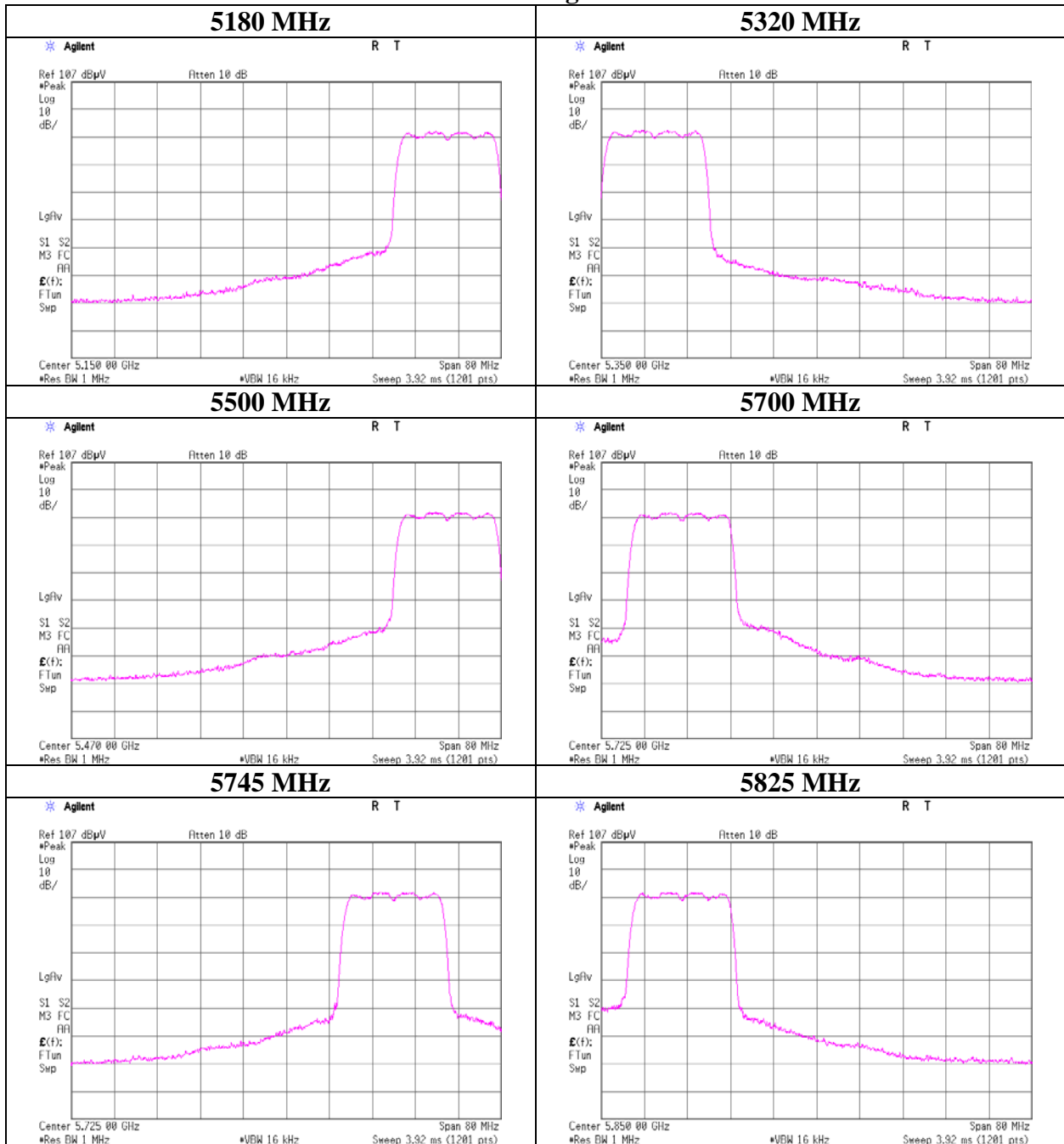


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place : Ise EMC Lab. No.11 Measurement Room
 Report No. : 10689818H
 Date : 06/03/2015
 Temperature/ Humidity : 24deg. C / 55% RH
 Engineer : Takafumi Noguchi
 Mode : 11ac-20 Tx

11ac-20 Average detect

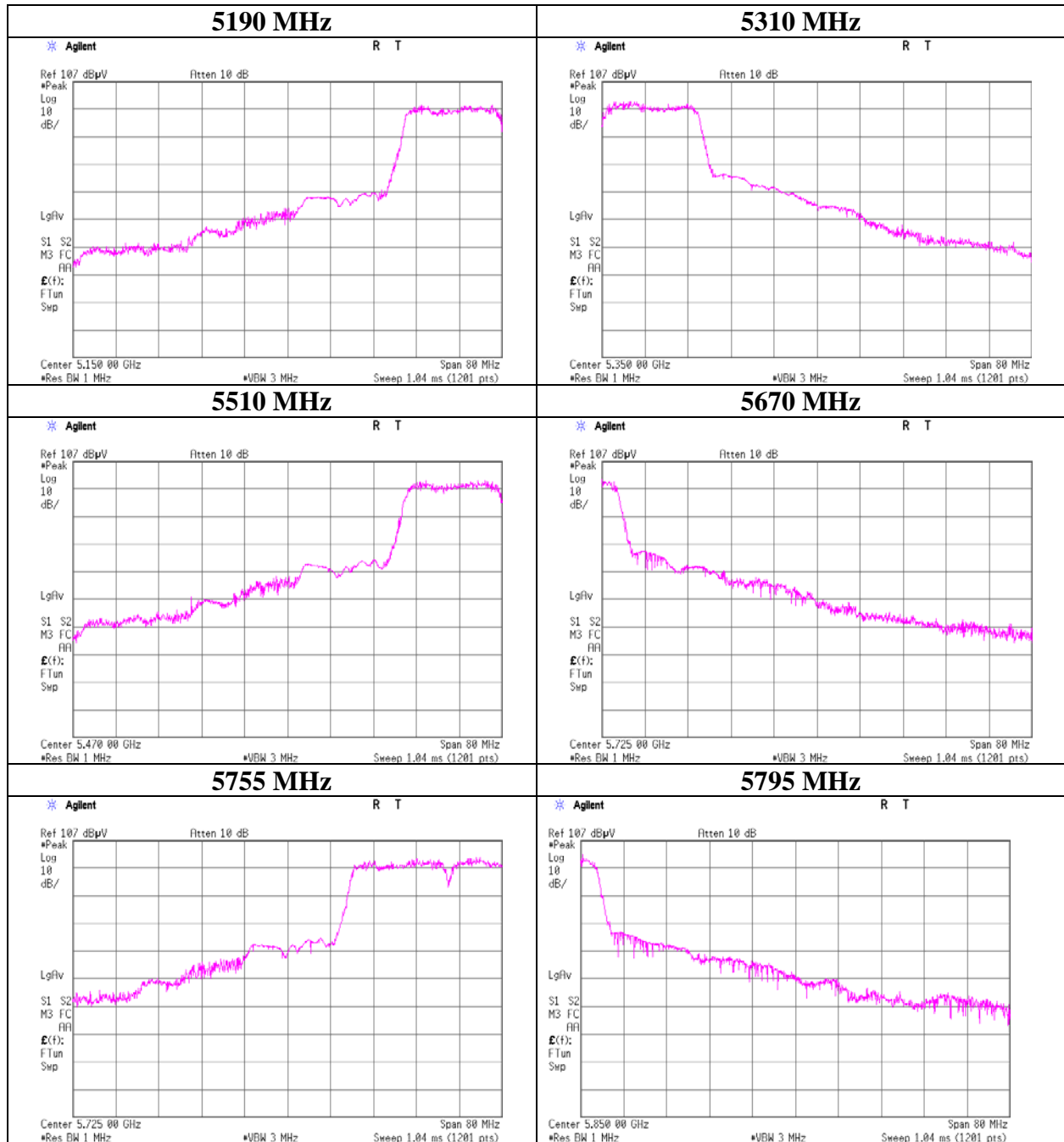


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10689818H
Date	06/03/2015
Temperature/ Humidity	24deg. C / 55% RH
Engineer	Takafumi Noguchi
Mode	11n-40 Tx

11n-40 Peak detect

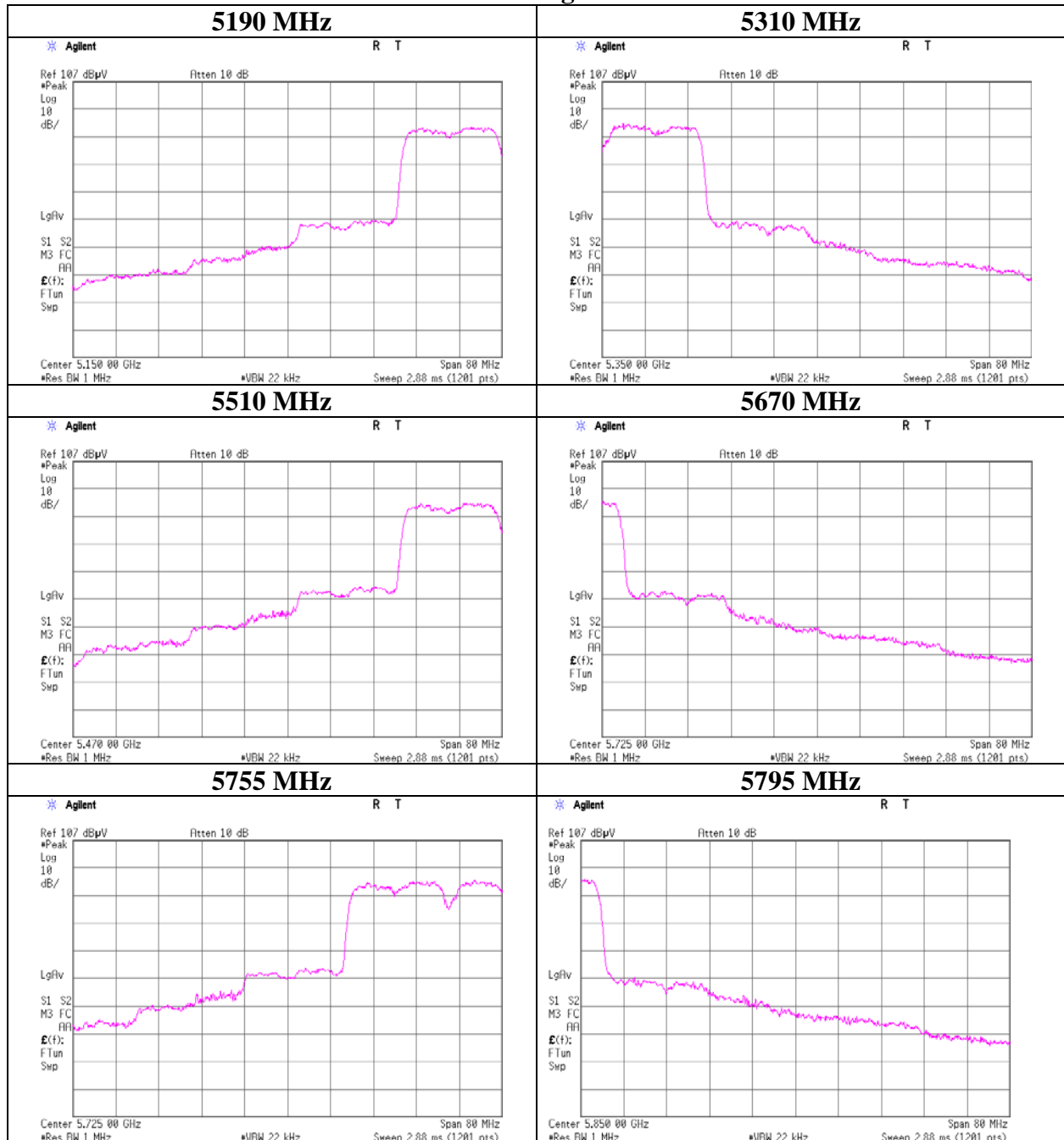


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10689818H
Date	06/03/2015
Temperature/ Humidity	24deg. C / 55% RH
Engineer	Takafumi Noguchi
Mode	11n-40 Tx

11n-40 Average detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

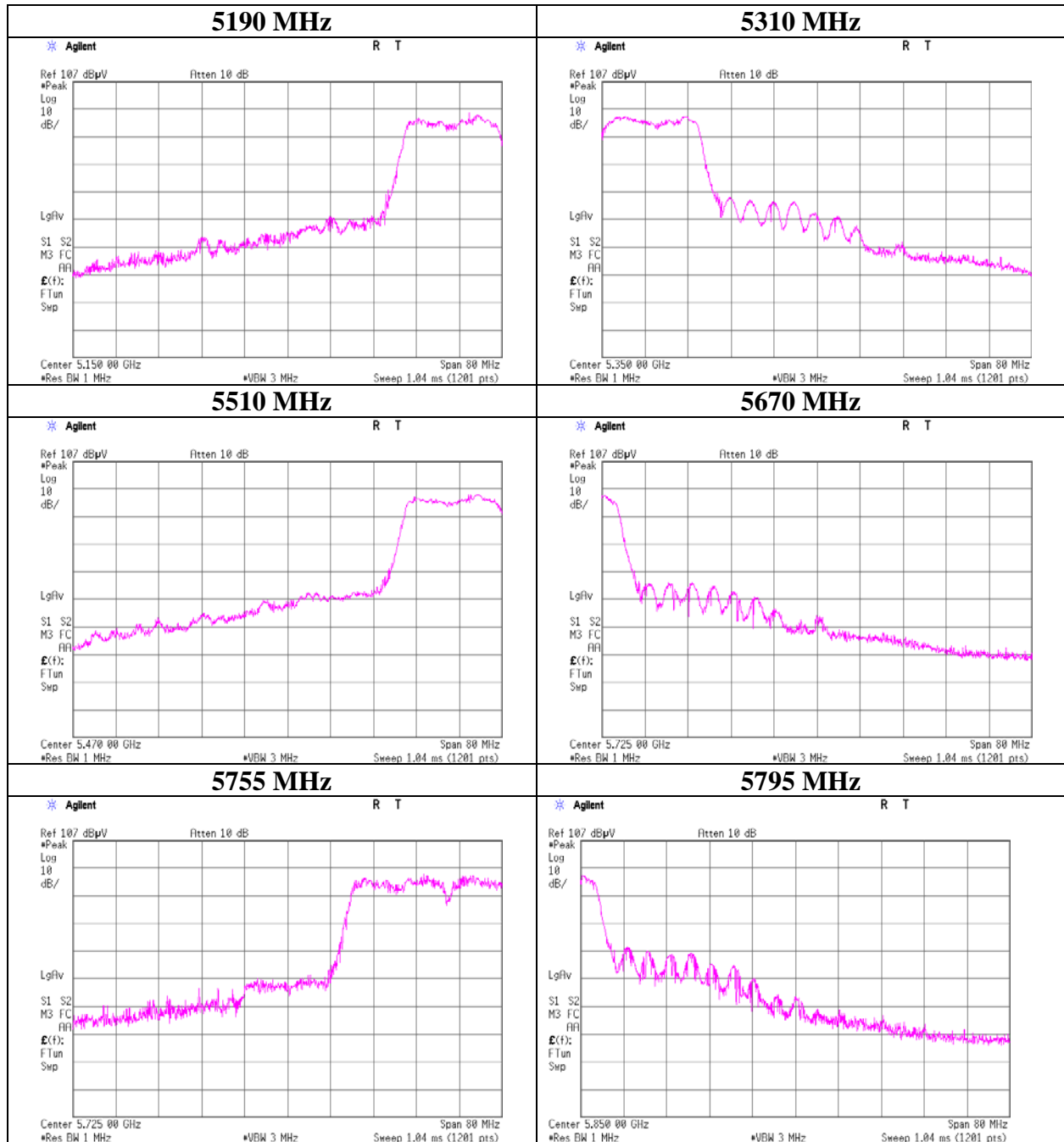
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Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10689818H
Date	06/03/2015
Temperature/ Humidity	24deg. C / 55% RH
Engineer	Takafumi Noguchi
Mode	11ac-40 Tx

11ac-40 Peak detect

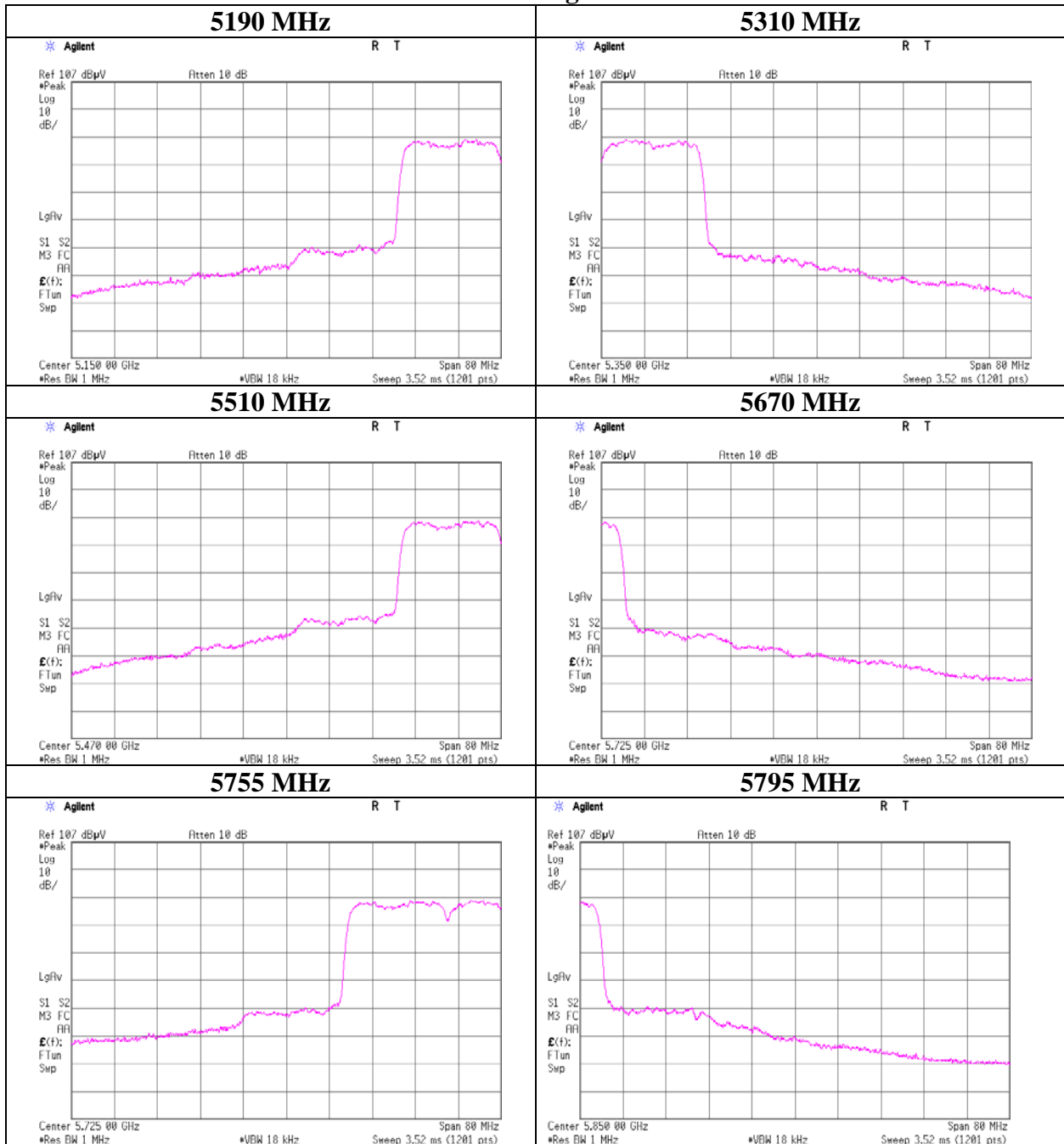


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place : Ise EMC Lab. No.11 Measurement Room
 Report No. : 10689818H
 Date : 06/03/2015
 Temperature/ Humidity : 24deg. C / 55% RH
 Engineer : Takafumi Noguchi
 Mode : 11ac-40 Tx

11ac-40 Average detect

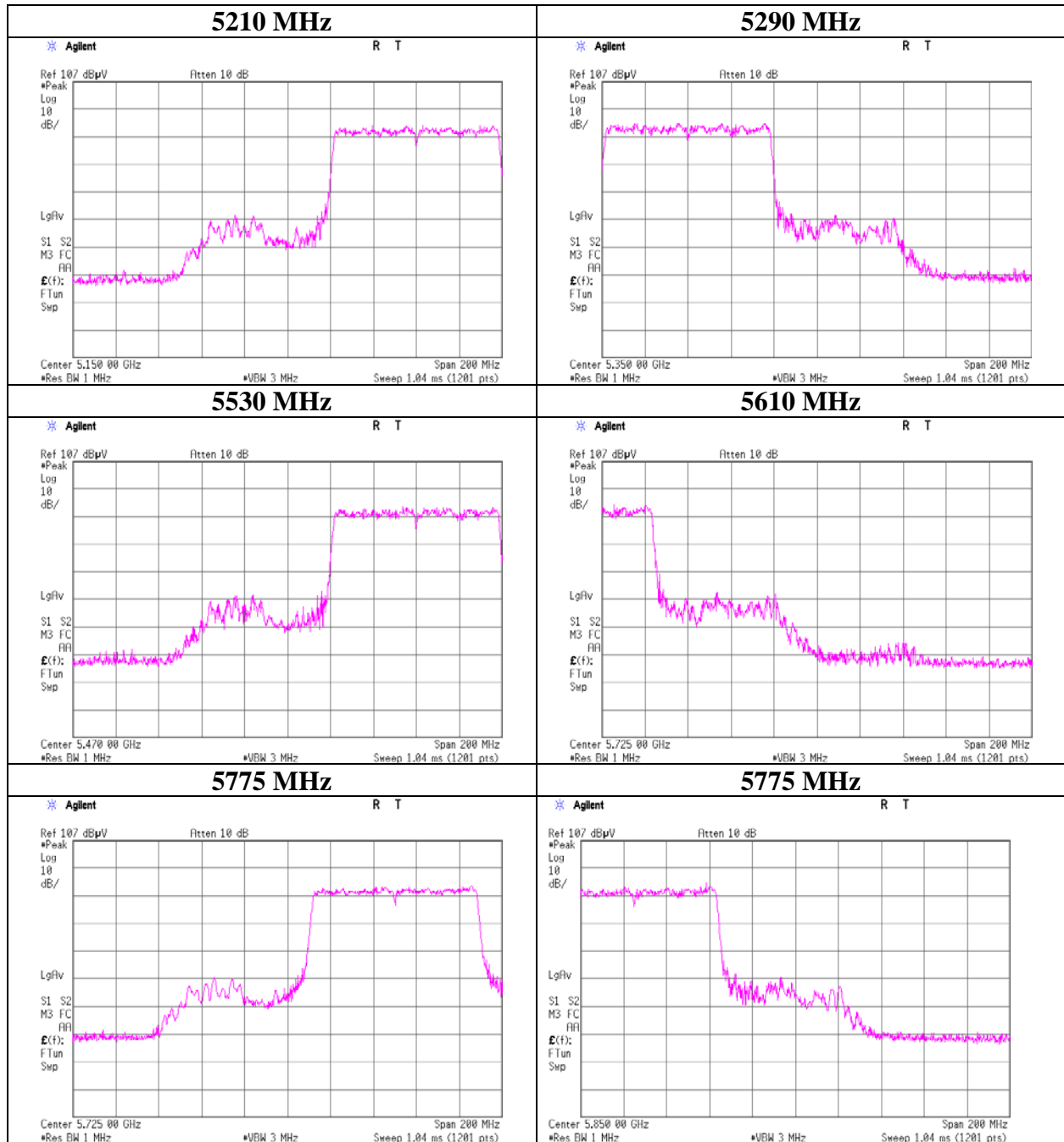


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10689818H
Date	06/03/2015
Temperature/ Humidity	24deg. C / 55% RH
Engineer	Takafumi Noguchi
Mode	11ac-80 Tx

11ac-80 Peak detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

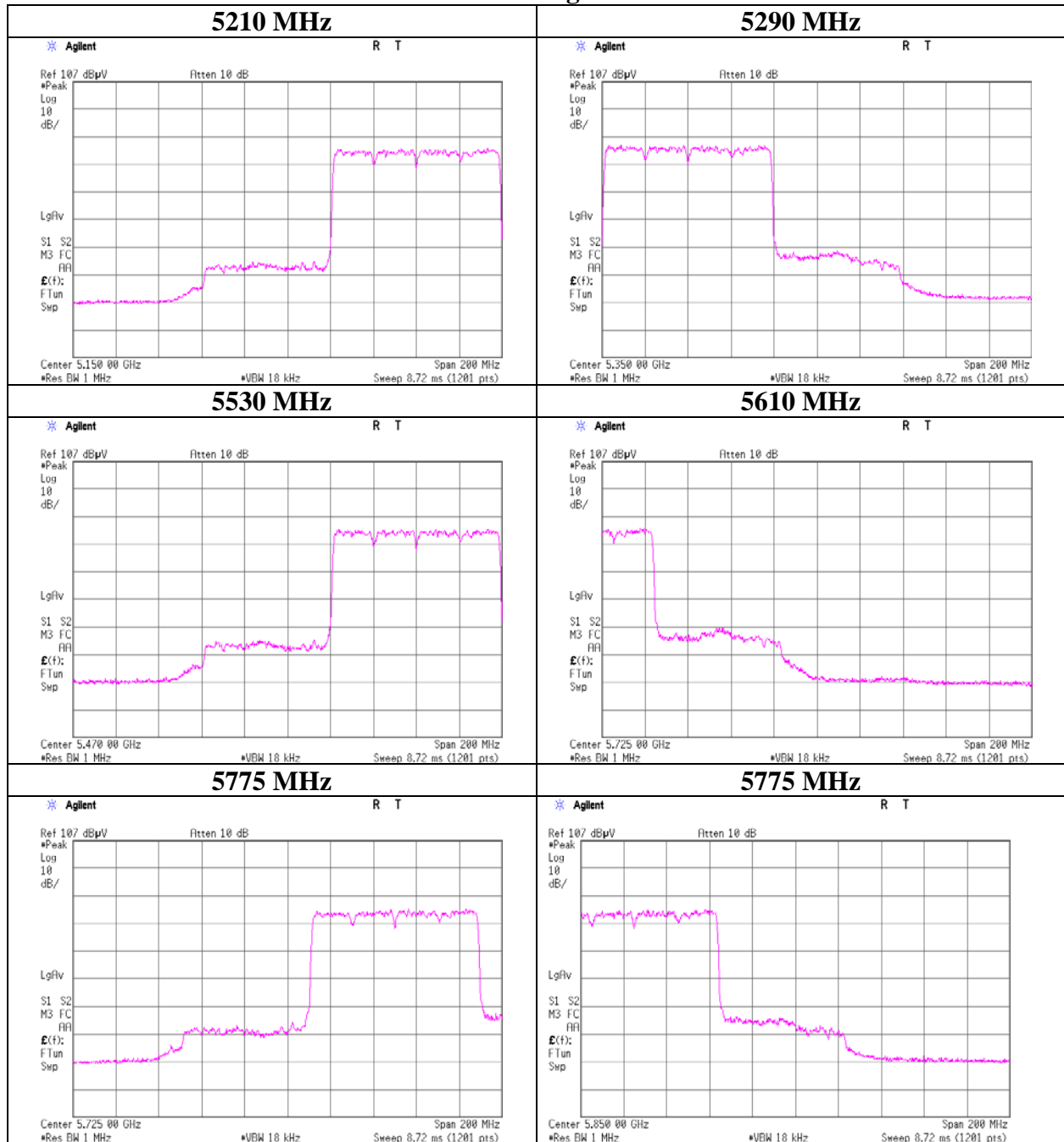
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 Facsimile : +81 596 24 8124

Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10689818H
Date	06/03/2015
Temperature/ Humidity	24deg. C / 55% RH
Engineer	Takafumi Noguchi
Mode	11ac-80 Tx

11ac-80 Average detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

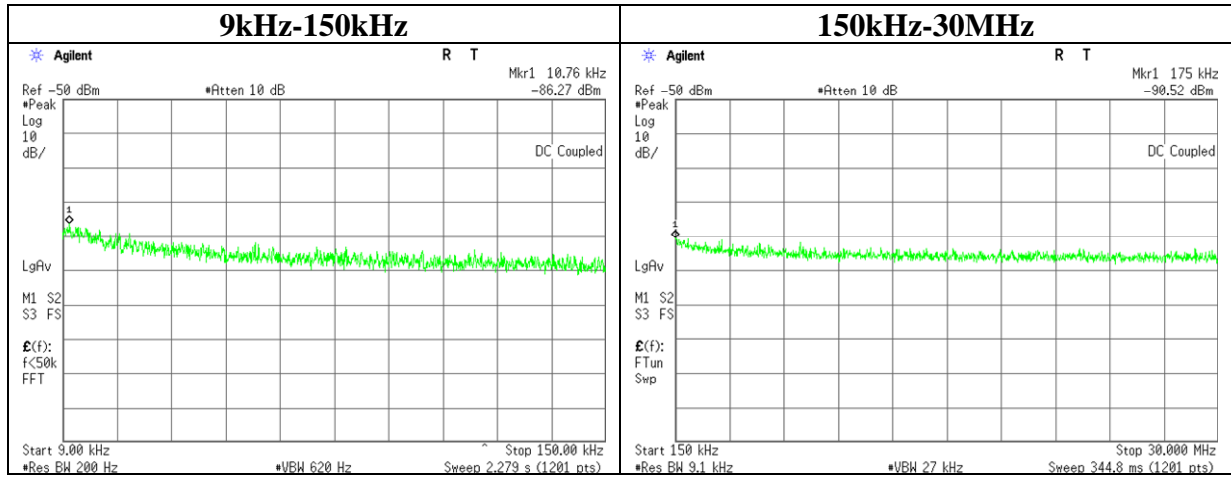
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Conducted Spurious Emission

Test place : Ise EMC Lab. No.11 Measurement Room
 Report No. : 10689818H
 Date : 04/23/2015
 Temperature/ Humidity : 23deg. C / 44% RH
 Engineer : Shinichi Miyazono
 Mode : 11a Tx

11a Tx 5785MHz Antenna 1



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator [dB]	Antenna Gain [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
10.76	-86.27	0.01	9.83	5.00	1	-71.4	300	6.0	-10.2	46.9	57.1	
175.00	-90.52	0.01	9.82	5.00	1	-75.7	300	6.0	-14.4	22.7	37.1	

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

$\text{EIRP} = \text{Reading} + \text{Cable Loss} + \text{Attenuator} + \text{Antenna Gain} + 10 * \log(N)$

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APPENDIX 2: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MHF-16	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	7001	RE	2014/09/29 * 12
MOTS-MATM	Antenna Terminal Measurement Software	UL Japan	-	-	AT	-
MSA-15	Spectrum Analyzer	Agilent	E4440A	MY46187105	AT	2014/11/11 * 12
MPM-16	Power Meter	Agilent	8990B	MY51000271	AT	2015/04/01 * 12
MPSE-22	Power sensor	Agilent	N1923A	MY54070003	AT	2015/04/01 * 12
MCC-144	Microwave Cable	Junkosha	MWX221	1207S407	AT	2014/08/08 * 12
MCC-35	Microwave Cable	Hirose Electric	U.FL-2LP-066-A- (200)	-	AT	2014/09/12 * 12
MCC-37	Microwave Cable	Hirose Electric	U.FL-2LP-066-A- (200)	-	AT	2014/09/25 * 12
MAT-24	Attenuator(10dB)(above1G Hz)	Agilent	8493C	71389	AT	2014/06/12 * 12
MOS-19	Thermo-Hygrometer	Custom	CTH-201	0001	AT	2014/12/22 * 12
MTA-25	Terminator	Weinschel	M1459A	P9766	AT	Pre Check
MTW-09	Torque wrench	HUBER+SUHNER	74 Z-0-0-21	72676	AT	2015/03/05 * 36
MAEC-04	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2015/02/26 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	1501	RE/CE	2015/01/13 * 12
MJM-23	Measure	ASKUL	-	-	RE/CE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MSA-10	Spectrum Analyzer	Agilent	E4448A	MY46180655	RE	2015/02/26 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2014/08/12 * 12
MCC-141	Microwave Cable	Junkosha	MWX221	1305S002R(1m) / 1405S146(5m)	RE	2014/06/11 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	MY39500780	RE	2015/03/12 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170307	RE	2014/06/11 * 12
MCC-54	Microwave Cable	Suhner	SUCOFLEX101	2873(1m) / 2876(5m)	RE	2015/03/09 * 12
MPA-03	Microwave System Power Amplifier	Agilent	83050A	3950M00205	RE	2014/06/30 * 12
MSA-16	Spectrum Analyzer	Agilent	E4440A	MY46186390	RE/AT	2015/02/16 * 12
MHF-23	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCC	603	RE	2015/01/27 * 12
MCC-178	Microwave Cable	Junkosha	MMX221- 00500DMSDMS	1502S305	RE	2015/03/27 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ES140	100084	RE/CE	2014/11/10 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	1302	RE	2014/11/22 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	N/A	RE	2014/11/22 * 12
MCC-50	Coaxial Cable	UL Japan	-	-	RE	2014/06/02 * 12
MAT-68	Attenuator	Anritsu	MP721B	6200961025	RE	2014/11/11 * 12
MPA-09	Pre Amplifier	Agilent	8447D	2944A10845	RE	2014/09/26 * 12
MLS-24	LISN(AMN)	Schwarzbeck	NSLK8127	8127-730	CE	2014/07/10 * 12
MAT-67	Attenuator	JFW Industries, Inc.	50FP-013H2 N	-	CE	2015/01/29 * 12
MCC-113	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W(10m)/ SFM141(5m)/421- 010(1m)/sucoform14 1-PE(1m)/RFM- E121(Switcher)	-/04178	CE	2014/07/15 * 12
MAEC-02	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	RE	2014/06/25 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	0003	RE	2015/01/13 * 12
MJM-14	Measure	KOMELON	KMC-36	-	RE	-
MTW-02	Torque wrench	HUBER+SUHNER	74 Z-0-0-21	98190	RE	2015/01/16 * 36
MSA-14	Spectrum Analyzer	Agilent	E4440A	MY48250080	RE	2014/10/17 * 12
MHA-06	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	254	RE	2015/02/05 * 12
MCC-166	Microwave Cable	Junkosha	MWX221	1303S120(1m) / 1311S167(5m)	RE	2014/09/24 * 12
MPA-10	Pre Amplifier	Agilent	8449B	3008A02142	RE	2015/01/28 * 12

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The expiration date of the calibration is the end of the expired month.
All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

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

Test Item: CE: Conducted Emission test
RE: Radiated Emission test
AT: Antenna Terminal Conducted test