APPENDIX 2: Data of EMI test

Conducted Emission
(Power Supply: SONY)
11b, Tx 2412MHz, ANT 0

DATA OF CONDUCTED EMISSION TEST

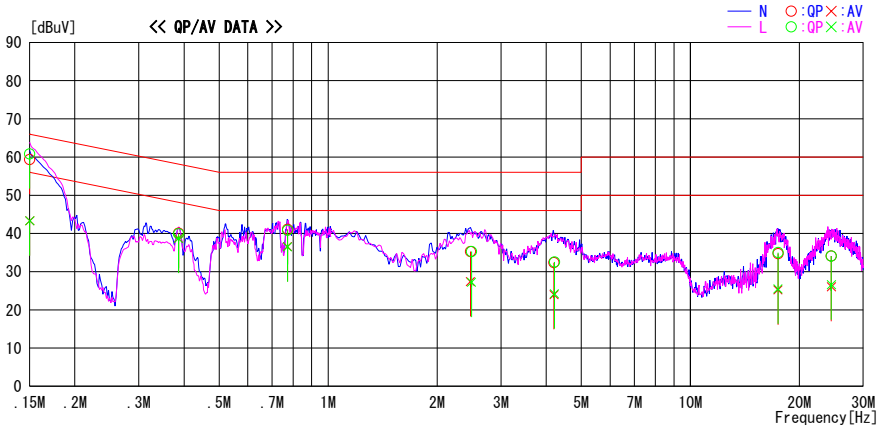
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/12/10

Report No. : 30EE0055-HO-01

Temp./Humi. : 23deg.C / 35%
Engineer : Takeshi Choda

Mode / Remarks : WLAN, Tx, 11b, 2412MHz, 11Mbps, Ant:0

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15000	59.1	43.0	0.3	59.4	43.3	66.0	56.0	6.6	12.7	N
0.38641	39.8	38.5	0.3	40.1	38.8	58.1	48.1	18.0	9.3	N
0.77273	40.7	36.2	0.4	41.1	36.6	56.0	46.0	14.9	9.4	N
2.47046	34.7	26.8	0.6	35.3	27.4	56.0	46.0	20.7	18.6	N
4.19903	31.6	23.2	0.8	32.4	24.0	56.0	46.0	23.6	22.0	N
17.46370	32.8	23.3	1.9	34.7	25.2	60.0	50.0	25.3	24.8	N
24.50342	31.8	23.8	2.3	34.1	26.1	60.0	50.0	25.9	23.9	N
0.15000	60.5	43.0	0.3	60.8	43.3	66.0	56.0	5.2	12.7	L
0.38616	39.6	38.4	0.3	39.9	38.7	58.1	48.1	18.2	9.4	L
0.77253	40.4	36.1	0.4	40.8	36.5	56.0	46.0	15.2	9.5	L
2.48864	34.7	26.6	0.6	35.3	27.2	56.0	46.0	20.7	18.8	L
4.21539	31.8	23.4	0.8	32.6	24.2	56.0	46.0	23.4	21.8	L
17.46370	33.1	23.6	1.9	35.0	25.5	60.0	50.0	25.0	24.5	L
24.48342	31.8	24.3	2.3	34.1	26.6	60.0	50.0	25.9	23.4	L

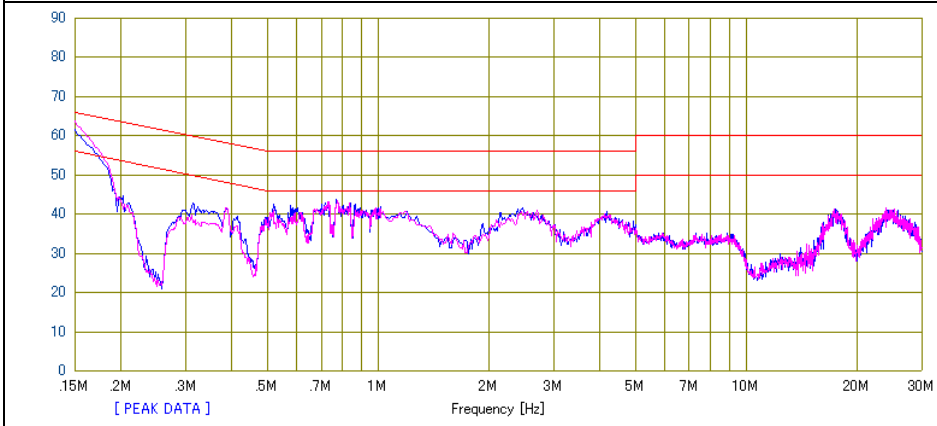
CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

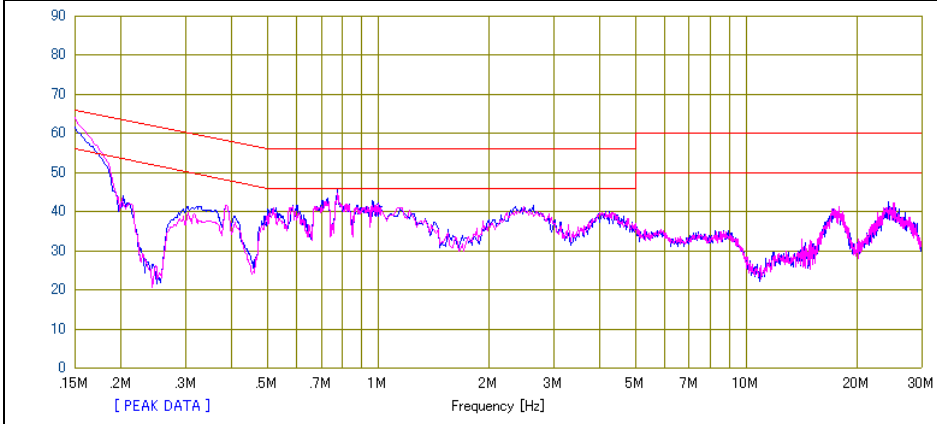
Conducted Emission
(Power Supply: SONY)
11b, ANT 0

Test place	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	12/10/2009
Temperature/ Humidity	23 deg.C./ 35%
Engineer	Takeshi Choda
Mode	11b Tx

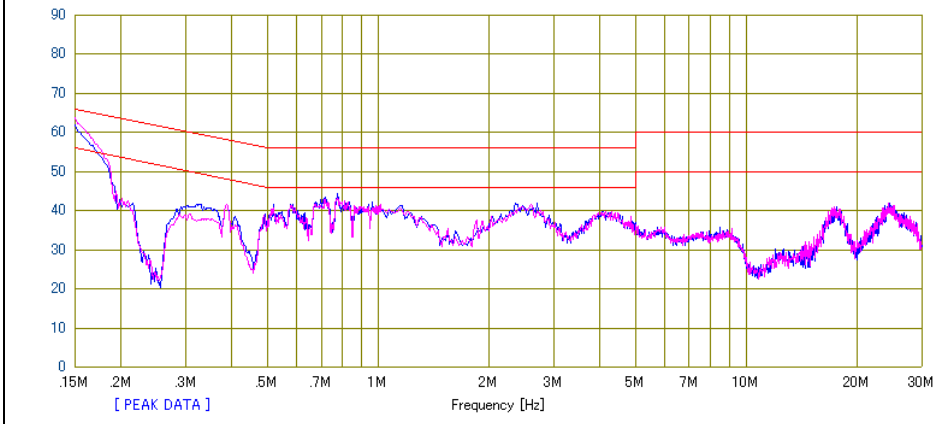
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission
(Power Supply: SONY)
11b, Tx 2437MHz, ANT 1

DATA OF CONDUCTED EMISSION TEST

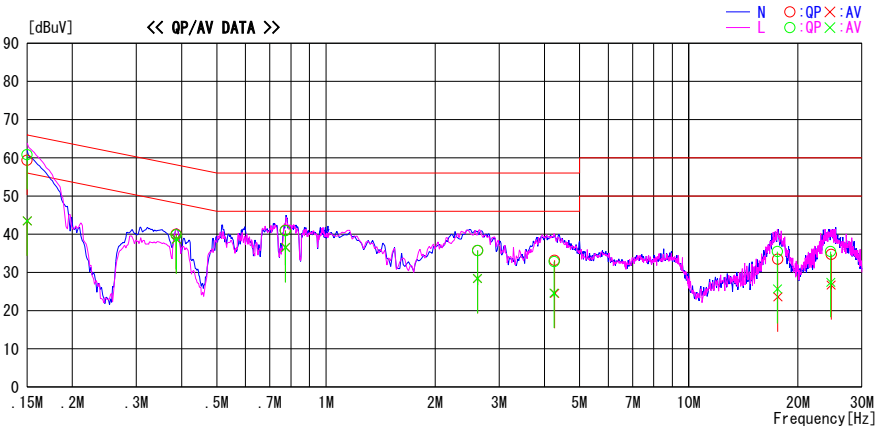
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/12/10

Report No. : 30EE0055-HO-01

Temp./Humi. : 23deg.C / 35%
Engineer : Takeshi Choda

Mode / Remarks : WLAN, Tx, 11b, 2437MHz, 11Mbps, Ant:1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15000	59.1	43.2	0.3	59.4	43.5	66.0	56.0	6.6	12.5	N
0.38654	39.7	38.5	0.3	40.0	38.8	58.1	48.1	18.1	9.3	N
0.77314	40.6	36.2	0.4	41.0	36.6	56.0	46.0	15.0	9.4	N
2.61574	35.1	27.8	0.6	35.7	28.4	56.0	46.0	20.3	17.6	N
4.26412	32.4	23.7	0.8	33.2	24.5	56.0	46.0	22.8	21.5	N
17.58424	31.6	21.7	1.9	33.5	23.6	60.0	50.0	26.5	26.4	N
24.69614	32.4	24.4	2.3	34.7	26.7	60.0	50.0	25.3	23.3	N
0.15000	60.5	43.2	0.3	60.8	43.5	66.0	56.0	5.2	12.5	L
0.38655	39.5	38.4	0.3	39.8	38.7	58.1	48.1	18.3	9.4	L
0.77301	40.5	36.1	0.4	40.9	36.5	56.0	46.0	15.1	9.5	L
2.61536	35.1	27.8	0.6	35.7	28.4	56.0	46.0	20.3	17.6	L
4.25174	32.0	23.8	0.8	32.8	24.6	56.0	46.0	23.2	21.4	L
17.54406	33.6	23.8	1.9	35.5	25.7	60.0	50.0	24.5	24.3	L
24.61578	33.2	25.1	2.3	35.5	27.4	60.0	50.0	24.5	22.6	L

CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

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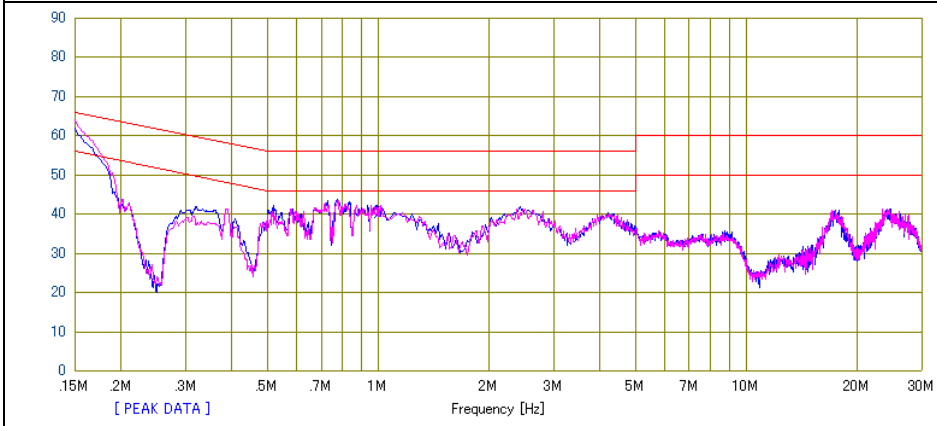
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

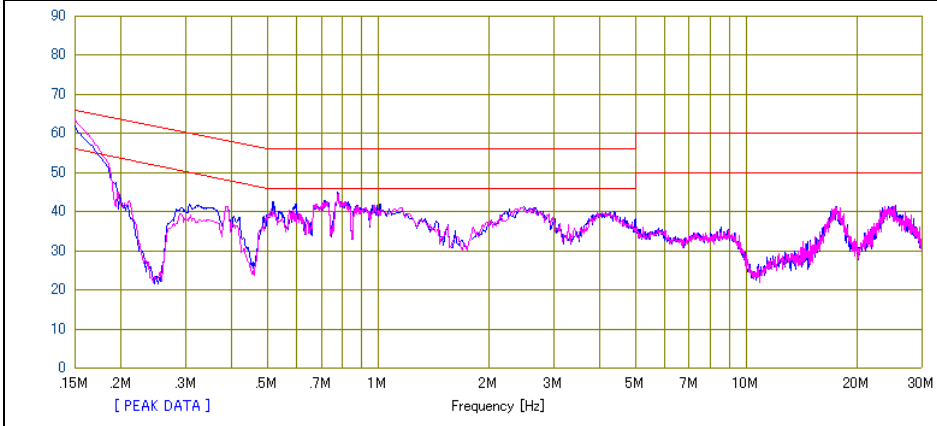
Conducted Emission
(Power Supply: SONY)
11b, ANT 1

Test place	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	12/10/2009
Temperature/ Humidity	23 deg.C./ 35%
Engineer	Takeshi Choda
Mode	11b Tx

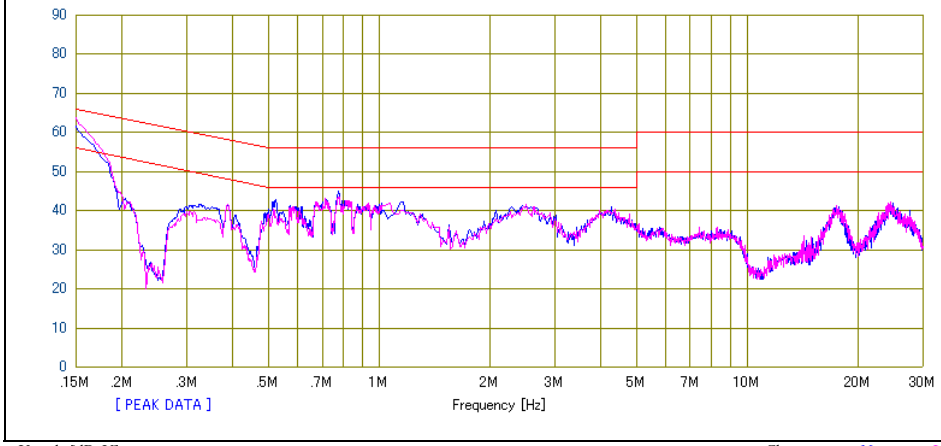
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

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Conducted Emission
(Power Supply: SONY)
11g, Tx 2462MHz, ANT 0

DATA OF CONDUCTED EMISSION TEST

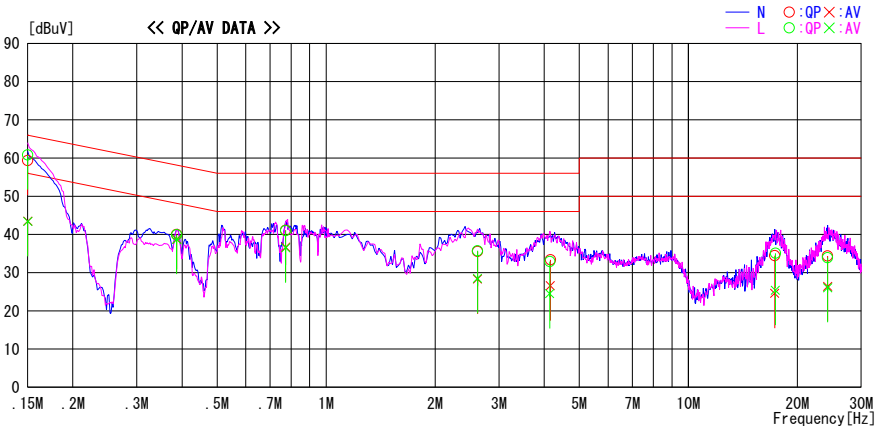
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/12/10

Report No. : 30EE0055-HO-01

Temp./Humi. : 23deg.C / 35%
Engineer : Takeshi Choda

Mode / Remarks : WLAN, Tx, 11g, 2462MHz, 24Mbps, Ant:0

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15000	59.1	43.2	0.3	59.4	43.5	66.0	56.0	6.6	12.5	N
0.38658	39.7	38.5	0.3	40.0	38.8	58.1	48.1	18.1	9.3	N
0.77317	40.7	36.3	0.4	41.1	36.7	56.0	46.0	14.9	9.3	N
2.61611	35.0	27.7	0.6	35.6	28.3	56.0	46.0	20.4	17.7	N
4.16086	32.6	25.8	0.8	33.4	26.6	56.0	46.0	22.6	19.4	N
17.30298	32.6	22.7	1.9	34.5	24.6	60.0	50.0	25.5	25.4	N
24.21397	32.1	24.1	2.3	34.4	26.4	60.0	50.0	25.6	23.6	N
0.15000	60.5	43.1	0.3	60.8	43.4	66.0	56.0	5.2	12.6	L
0.38662	39.6	38.4	0.3	39.9	38.7	58.1	48.1	18.2	9.4	L
0.77316	40.6	36.1	0.4	41.0	36.5	56.0	46.0	15.0	9.5	L
2.61588	35.1	27.9	0.6	35.7	28.5	56.0	46.0	20.3	17.5	L
4.14268	32.1	23.7	0.8	32.9	24.5	56.0	46.0	23.1	21.5	L
17.38334	33.2	23.5	1.9	35.1	25.4	60.0	50.0	24.9	24.6	L
24.21397	31.6	23.8	2.3	33.9	26.1	60.0	50.0	26.1	23.9	L

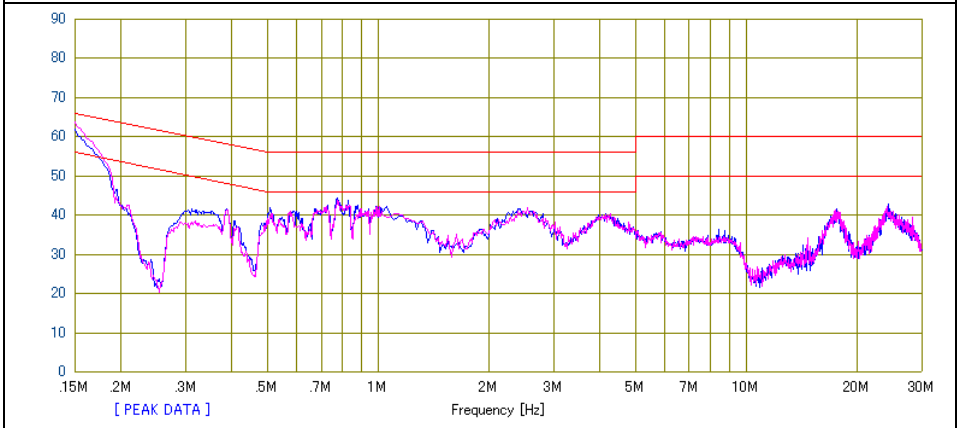
CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

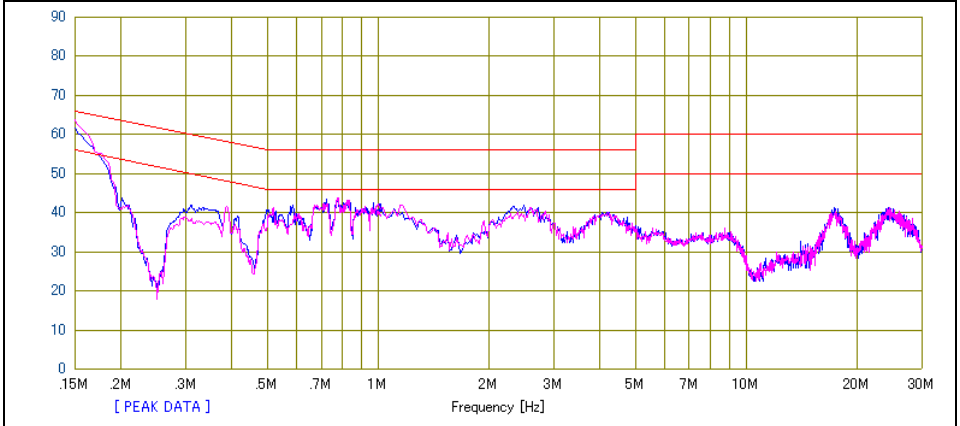
Conducted Emission
(Power Supply: SONY)
11g, ANT 0

Test place	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	12/10/2009
Temperature/ Humidity	23 deg.C./ 35%
Engineer	Takeshi Choda
Mode	11g Tx

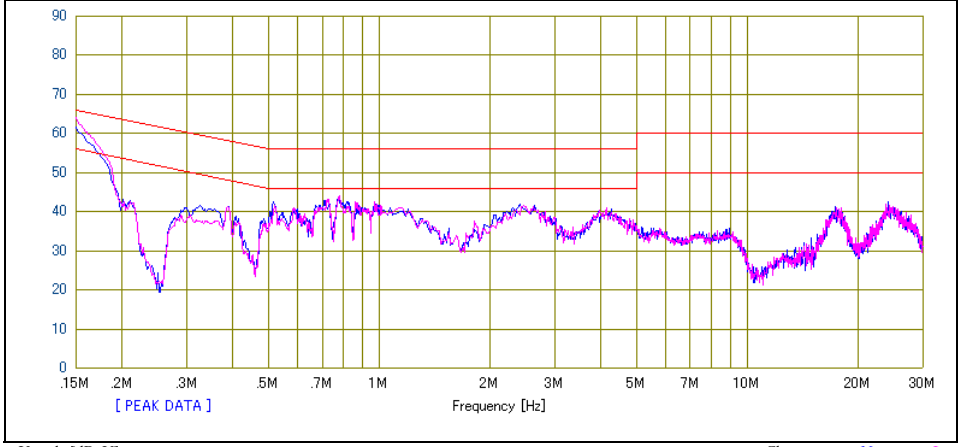
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

UL Japan, Inc.
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4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission
(Power Supply: SONY)
11g, Tx 2462MHz, ANT 1

DATA OF CONDUCTED EMISSION TEST

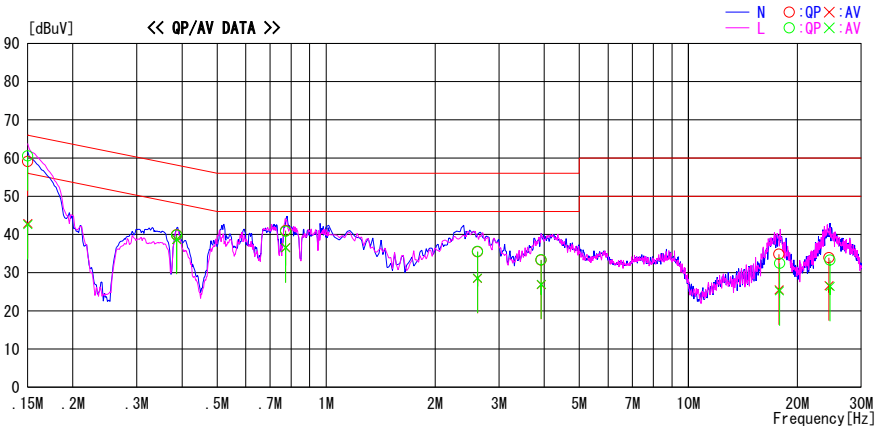
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/12/10

Report No. : 30EE0055-HO-01

Temp./Humi. : 23deg.C / 35%
Engineer : Takeshi Choda

Mode / Remarks : WLAN, Tx, 11g, 2462MHz, 24Mbps, Ant:1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15000	58.8	42.6	0.3	59.1	42.9	66.0	56.0	6.9	13.1	N
0.38658	39.6	38.4	0.3	39.9	38.7	58.1	48.1	18.2	9.4	N
0.77318	40.6	36.2	0.4	41.0	36.6	56.0	46.0	15.0	9.4	N
2.61590	34.9	27.9	0.6	35.5	28.5	56.0	46.0	20.5	17.5	N
3.92456	32.5	26.1	0.8	33.3	26.9	56.0	46.0	22.7	19.1	N
17.78604	32.9	23.6	1.9	34.8	25.5	60.0	50.0	25.2	24.5	N
24.43578	31.6	24.3	2.3	33.9	26.6	60.0	50.0	26.1	23.4	N
0.15000	60.3	42.3	0.3	60.6	42.6	66.0	56.0	5.4	13.4	L
0.38656	39.5	38.4	0.3	39.8	38.7	58.1	48.1	18.3	9.4	L
0.77320	40.4	36.1	0.4	40.8	36.5	56.0	46.0	15.2	9.5	L
2.61585	35.0	28.0	0.6	35.6	28.6	56.0	46.0	20.4	17.4	L
3.92316	32.6	26.2	0.8	33.4	27.0	56.0	46.0	22.6	19.0	L
17.84586	30.6	23.3	1.9	32.5	25.2	60.0	50.0	27.5	24.8	L
24.61578	31.0	24.1	2.3	33.3	26.4	60.0	50.0	26.7	23.6	L

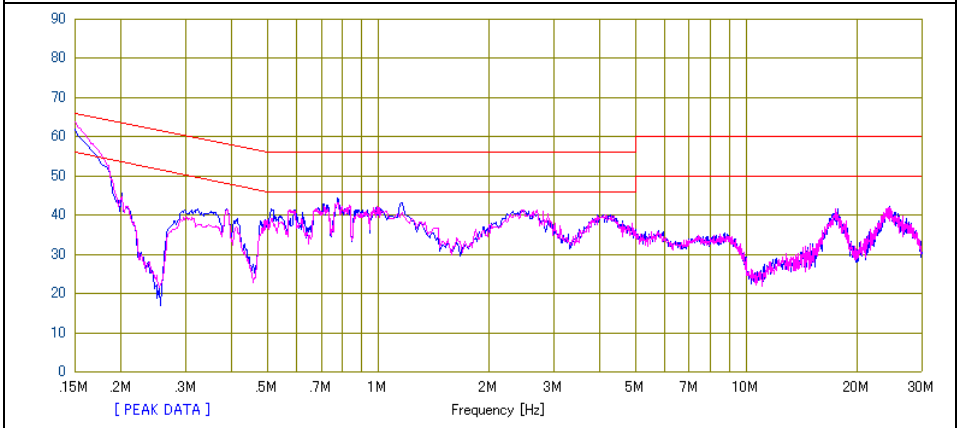
CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

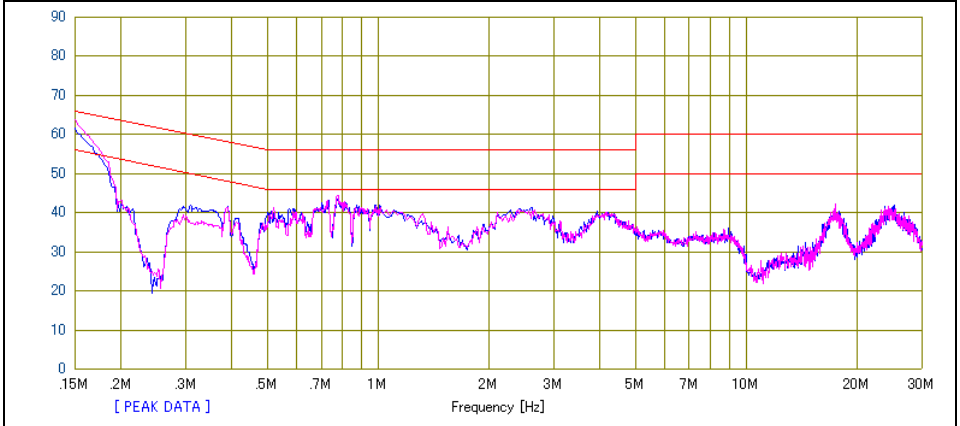
Conducted Emission
(Power Supply: SONY)
11g, ANT 1

Test place	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	12/10/2009
Temperature/ Humidity	23 deg.C./ 35%
Engineer	Takeshi Choda
Mode	11g Tx

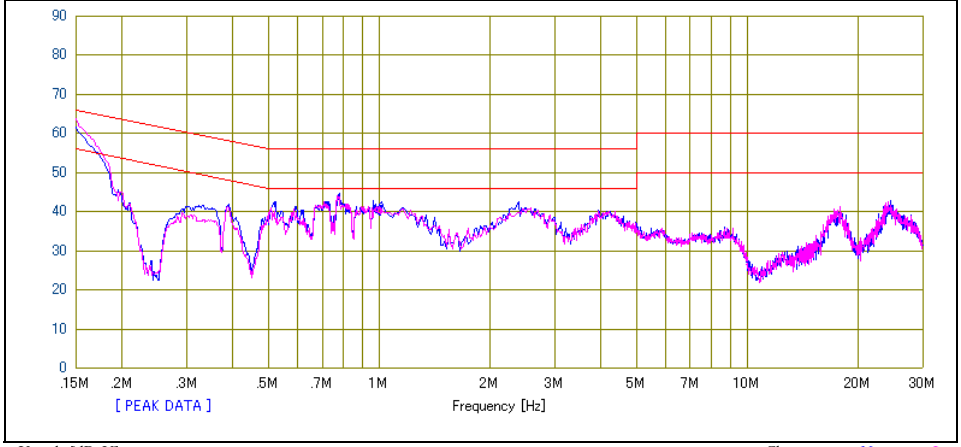
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
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Conducted Emission
(Power Supply: SONY)
11b/g, Rx 2437MHz, ANT 0

DATA OF CONDUCTED EMISSION TEST

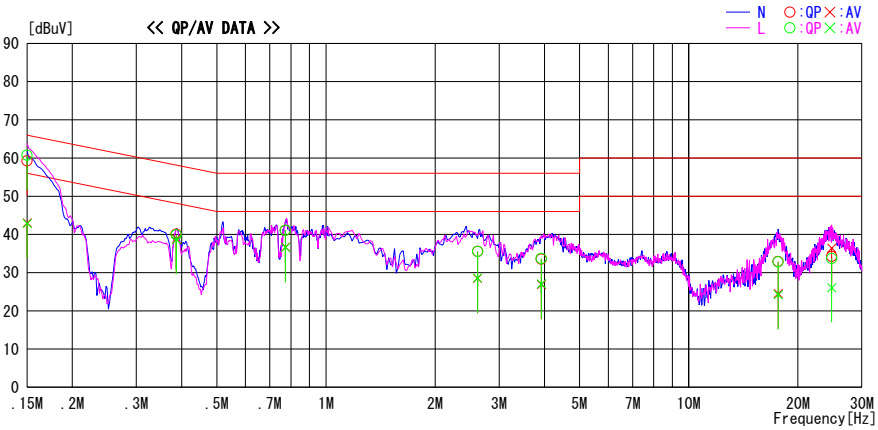
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/12/10

Report No. : 30EE0055-HO-01

Temp./Humi. : 23deg.C / 35%
Engineer : Takeshi Choda

Mode / Remarks : WLAN, Rx, 11b/g, 2437MHz, Ant:0

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15000	59.0	42.8	0.3	59.3	43.1	66.0	56.0	6.7	12.9	N
0.15000	60.4	42.6	0.3	60.7	42.9	66.0	56.0	5.3	13.1	L
0.38664	39.8	38.6	0.3	40.1	38.9	58.1	48.1	18.0	9.2	N
0.38664	39.6	38.4	0.3	39.9	38.7	58.1	48.1	18.2	9.4	L
0.77328	40.7	36.3	0.4	41.1	36.7	56.0	46.0	14.9	9.3	N
0.77336	40.7	36.2	0.4	41.1	36.6	56.0	46.0	14.9	9.4	L
2.61571	35.0	27.9	0.6	35.6	28.5	56.0	46.0	20.4	17.5	N
2.61596	35.0	28.0	0.6	35.6	28.6	56.0	46.0	20.4	17.4	L
3.92379	32.9	26.3	0.8	33.7	27.1	56.0	46.0	22.3	18.9	L
3.92360	32.8	26.1	0.8	33.6	26.9	56.0	46.0	22.4	19.1	N
17.62442	30.9	22.3	1.9	32.8	24.2	60.0	50.0	27.2	25.8	L
17.62442	31.0	22.6	1.9	32.9	24.5	60.0	50.0	27.1	25.5	N
24.77650	31.4	23.8	2.3	33.7	26.1	60.0	50.0	26.3	23.9	L
24.77650	32.0	34.1	2.3	34.3	36.4	60.0	50.0	25.7	13.6	N

CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

Conducted Emission
(Power Supply: SONY)
11b/g, Rx 2437MHz, ANT 1

DATA OF CONDUCTED EMISSION TEST

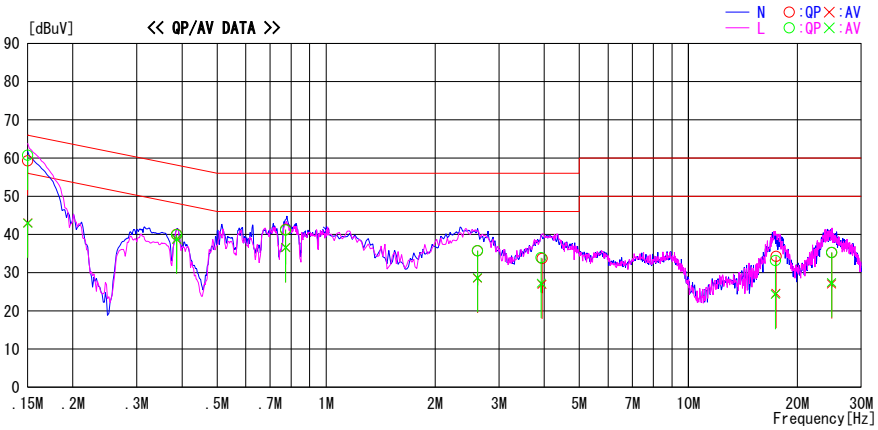
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/12/10

Report No. : 30EE0055-HO-01

Temp./Humi. : 23deg.C / 35%
Engineer : Takeshi Choda

Mode / Remarks : WLAN, Rx, 11b/g, 2437MHz, Ant:1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15000	59.0	42.8	0.3	59.3	43.1	66.0	56.0	6.7	12.9	N
0.38668	39.7	38.5	0.3	40.0	38.8	58.1	48.1	18.1	9.3	N
0.77336	40.9	36.2	0.4	41.3	36.6	56.0	46.0	14.7	9.4	N
2.61607	35.1	28.0	0.6	35.7	28.6	56.0	46.0	20.3	17.4	N
3.94274	32.9	26.2	0.8	33.7	27.0	56.0	46.0	22.3	19.0	N
17.46370	32.4	22.7	1.9	34.3	24.6	60.0	50.0	25.7	25.4	N
24.85686	33.0	24.8	2.3	35.3	27.1	60.0	50.0	24.7	22.9	N
0.15000	60.4	42.7	0.3	60.7	43.0	66.0	56.0	5.3	13.0	L
0.38666	39.6	38.5	0.3	39.9	38.8	58.1	48.1	18.2	9.3	L
0.77331	40.8	36.2	0.4	41.2	36.6	56.0	46.0	14.8	9.4	L
2.61611	35.1	28.1	0.6	35.7	28.7	56.0	46.0	20.3	17.3	L
3.92420	33.1	26.4	0.8	33.9	27.2	56.0	46.0	22.1	18.8	L
17.38334	31.3	22.4	1.9	33.2	24.3	60.0	50.0	26.8	25.7	L
24.85686	33.0	25.1	2.3	35.3	27.4	60.0	50.0	24.7	22.6	L

CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

Conducted Emission
(Power Supply: DELTA)
11b, Tx 2462MHz, ANT 0

DATA OF CONDUCTED EMISSION TEST

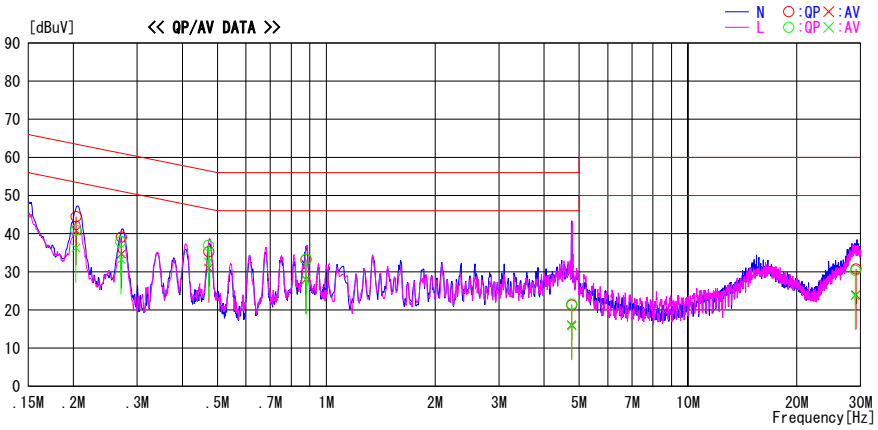
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/01/05

Report No. : 30EE0055-HO-01

Temp./Humi. : 22deg.C / 38%
Engineer : Takumi Shimada

Mode / Remarks : WLAN, Tx, 11b, 2462MHz,11Mbps, ANT:0

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.20337	44.2	40.5	0.3	44.5	40.8	63.5	53.5	19.0	12.7	N	
0.27147	38.8	34.4	0.3	39.1	34.7	61.1	51.1	22.0	16.4	N	
0.47345	35.0	30.7	0.3	35.3	31.0	56.5	46.5	21.2	15.5	N	
0.87738	32.9	27.8	0.3	33.2	28.1	56.0	46.0	22.8	17.9	N	
4.77124	20.6	15.4	0.7	21.3	16.1	56.0	46.0	34.7	29.9	N	
29.12103	28.7	22.0	2.0	30.7	24.0	60.0	50.0	29.3	26.0	N	
0.20290	40.6	35.9	0.3	40.9	36.2	63.5	53.5	22.6	17.3	L	
0.27055	37.6	32.9	0.3	37.9	33.2	61.1	51.1	23.2	17.9	L	
0.47195	36.6	32.3	0.3	36.9	32.6	56.5	46.5	19.6	13.9	L	
0.87945	33.0	27.6	0.3	33.3	27.9	56.0	46.0	22.7	18.1	L	
4.77396	20.9	15.2	0.7	21.6	15.9	56.0	46.0	34.4	30.1	L	
28.99725	28.4	21.8	2.0	30.4	23.8	60.0	50.0	29.6	26.2	L	

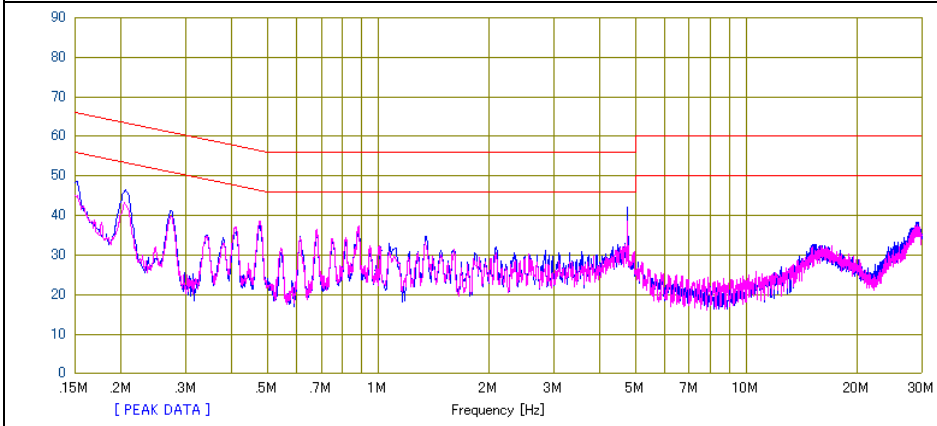
CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

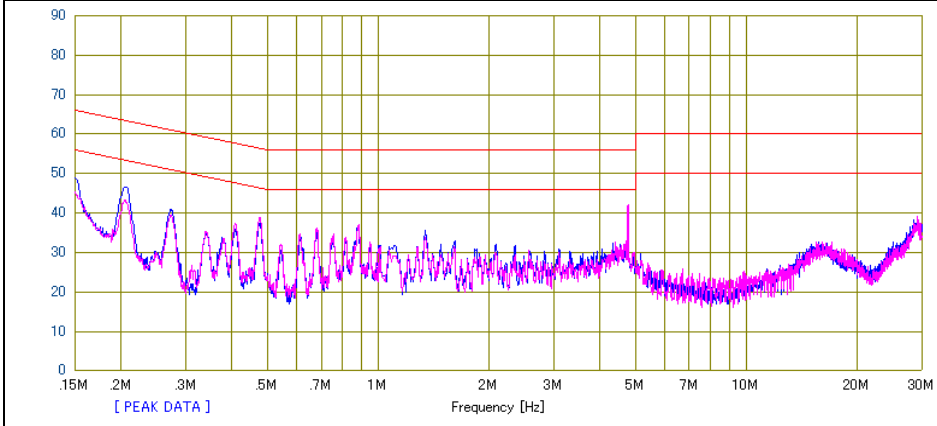
Conducted Emission
(Power Supply: DELTA)
11b, ANT 0

Test place	Head Office EMC Lab. No.4 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	01/05/2010
Temperature/ Humidity	22 deg.C./ 38%
Engineer	Takumi Shimada
Mode	11b Tx

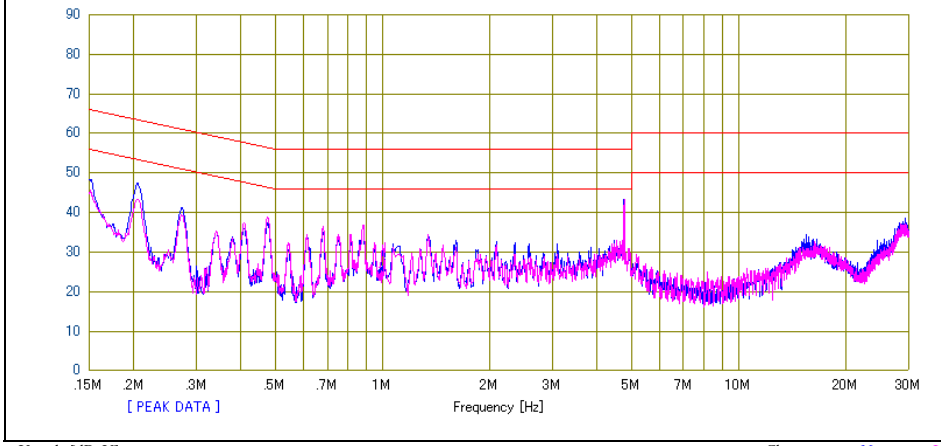
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission
(Power Supply: DELTA)
11b, Tx 2437MHz, ANT 1

DATA OF CONDUCTED EMISSION TEST

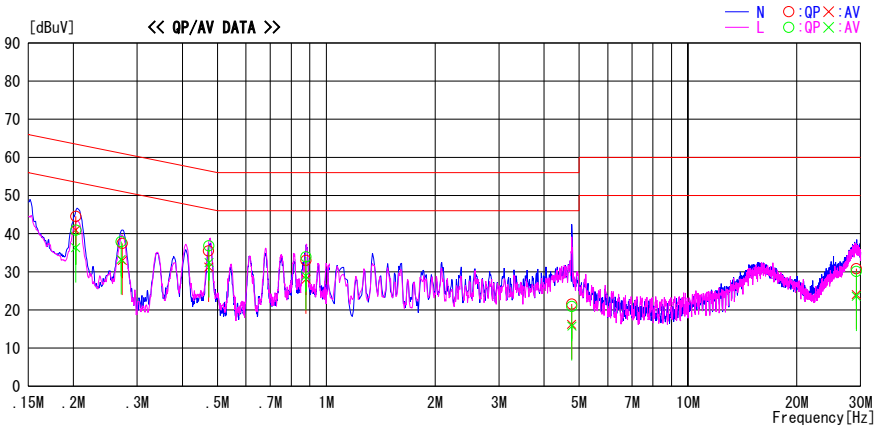
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/01/05

Report No. : 30EE0055-HO-01

Temp./Humi. : 22deg.C / 38%
Engineer : Takumi Shimada

Mode / Remarks : WLAN, Tx, 11b, 2437MHz,11Mbps, ANT:1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.20283	44.3	40.7	0.3	44.6	41.0	63.5	53.5	18.9	12.5	N	
0.27277	37.2	32.7	0.3	37.5	33.0	61.0	51.0	23.5	18.0	N	
0.47252	35.2	30.9	0.3	35.5	31.2	56.5	46.5	21.0	15.3	N	
0.87837	32.7	27.8	0.3	33.0	28.1	56.0	46.0	23.0	17.9	N	
4.76970	20.9	15.5	0.7	21.6	16.2	56.0	46.0	34.4	29.8	N	
29.19709	28.8	22.1	2.0	30.8	24.1	60.0	50.0	29.2	25.9	N	
0.20268	40.6	36.0	0.3	40.9	36.3	63.5	53.5	22.6	17.2	L	
0.27067	37.6	32.9	0.3	37.9	33.2	61.1	51.1	23.2	17.9	L	
0.47347	36.5	32.1	0.3	36.8	32.4	56.5	46.5	19.7	14.1	L	
0.87759	33.6	28.7	0.3	33.9	29.0	56.0	46.0	22.1	17.0	L	
4.77194	20.2	15.1	0.7	20.9	15.8	56.0	46.0	35.1	30.2	L	
29.19832	28.1	21.6	2.0	30.1	23.6	60.0	50.0	29.9	26.4	L	

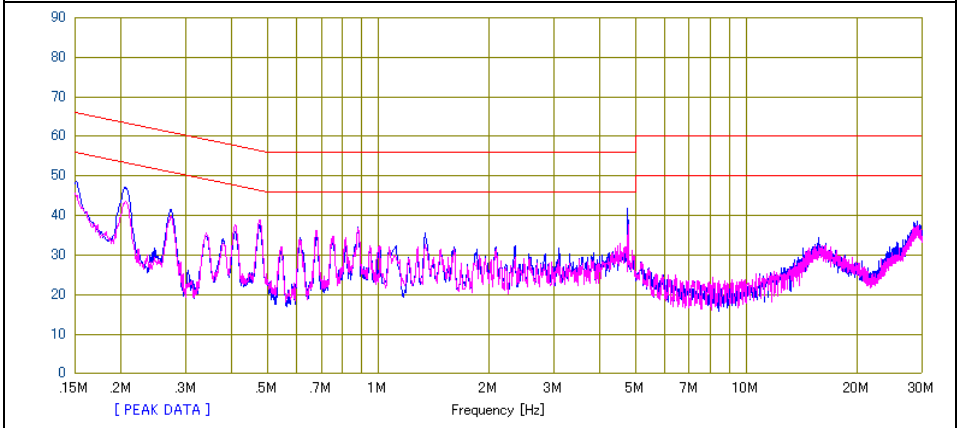
CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

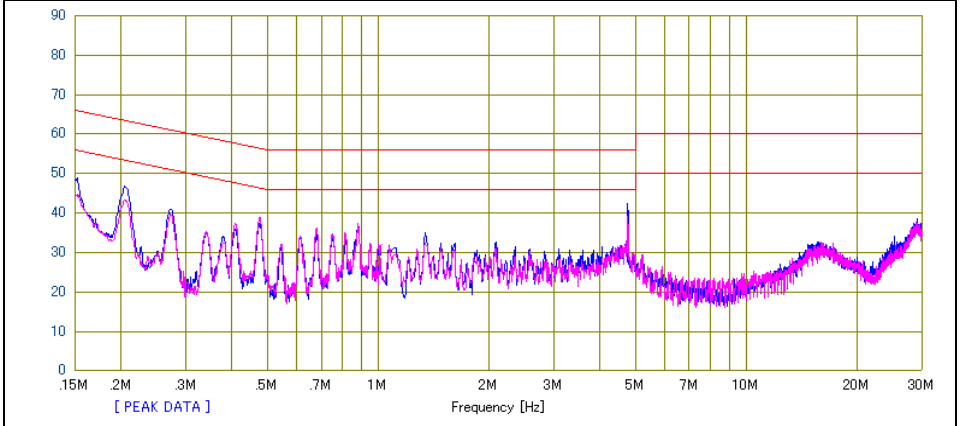
Conducted Emission
(Power Supply: DELTA)
11b, ANT 1

Test place	Head Office EMC Lab. No.4 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	01/05/2010
Temperature/ Humidity	22 deg.C./ 38%
Engineer	Takumi Shimada
Mode	11b Tx

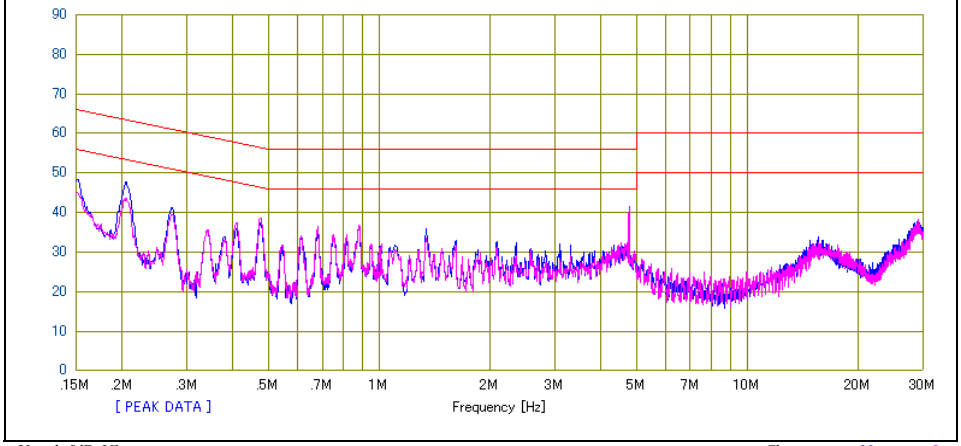
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission
(Power Supply: DELTA)
11g, Tx 2412MHz, ANT 0

DATA OF CONDUCTED EMISSION TEST

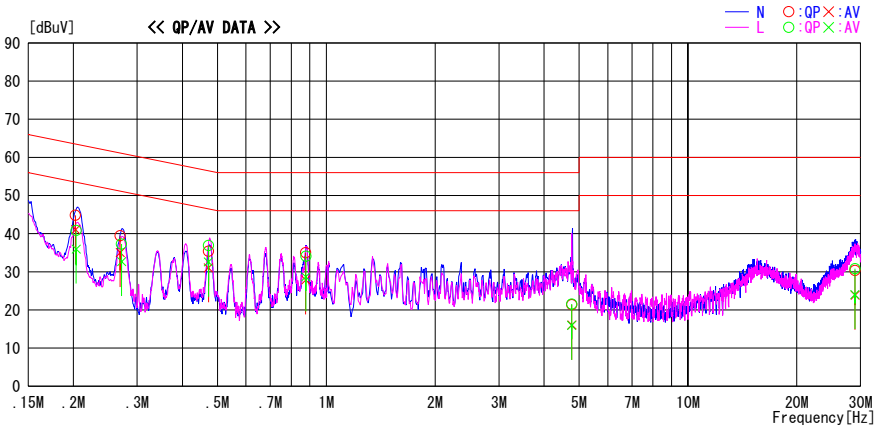
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/01/05

Report No. : 30EE0055-HO-01

Temp./Humi. : 22deg.C / 38%
Engineer : Takumi Shimada

Mode / Remarks : WLAN, Tx, 11g, 2412MHz, 24Mbps, ANT:0

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.20261	44.5	40.8	0.3	44.8	41.1	63.5	53.5	18.7	12.4	N	
0.26931	39.2	34.8	0.3	39.5	35.1	61.1	51.1	21.6	16.0	N	
0.47235	35.1	30.8	0.3	35.4	31.1	56.5	46.5	21.1	15.4	N	
0.87725	34.7	27.6	0.3	35.0	27.9	56.0	46.0	21.0	18.1	N	
4.77239	20.7	15.3	0.7	21.4	16.0	56.0	46.0	34.6	30.0	N	
28.95485	28.4	21.9	2.0	30.4	23.9	60.0	50.0	29.6	26.1	N	
0.20339	40.5	35.7	0.3	40.8	36.0	63.5	53.5	22.7	17.5	L	
0.27152	37.0	32.4	0.3	37.3	32.7	61.1	51.1	23.8	18.4	L	
0.47241	36.6	32.3	0.3	36.9	32.6	56.5	46.5	19.6	13.9	L	
0.87816	33.8	28.4	0.3	34.1	28.7	56.0	46.0	21.9	17.3	L	
4.77136	20.9	15.3	0.7	21.6	16.0	56.0	46.0	34.4	30.0	L	
28.93265	28.8	22.1	2.0	30.8	24.1	60.0	50.0	29.2	25.9	L	

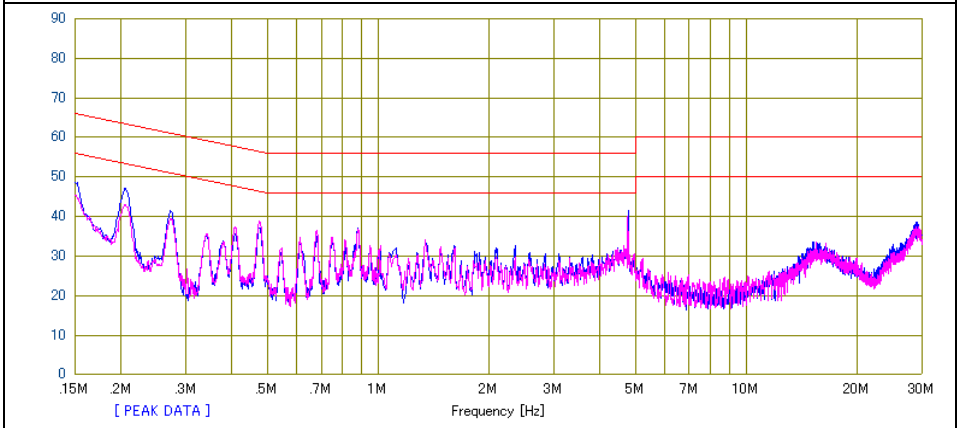
CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

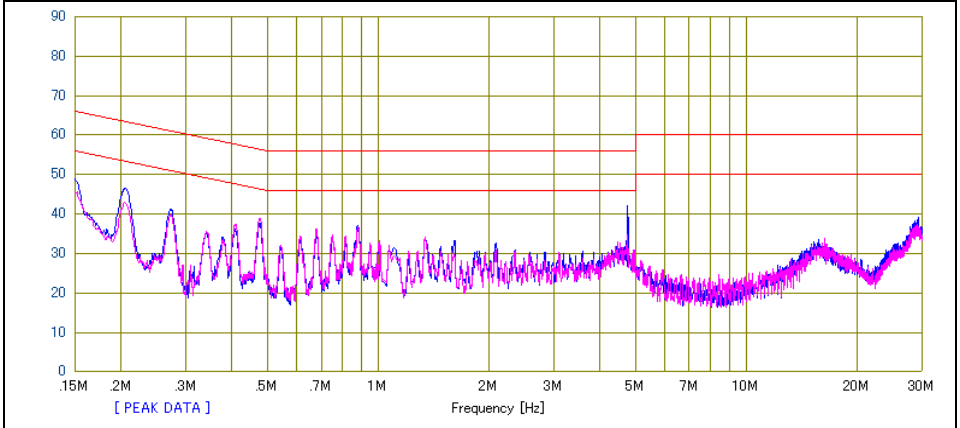
Conducted Emission
(Power Supply: DELTA)
11g, ANT 0

Test place	Head Office EMC Lab. No.4 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	01/05/2010
Temperature/ Humidity	22 deg.C./ 38%
Engineer	Takumi Shimada
Mode	11g Tx

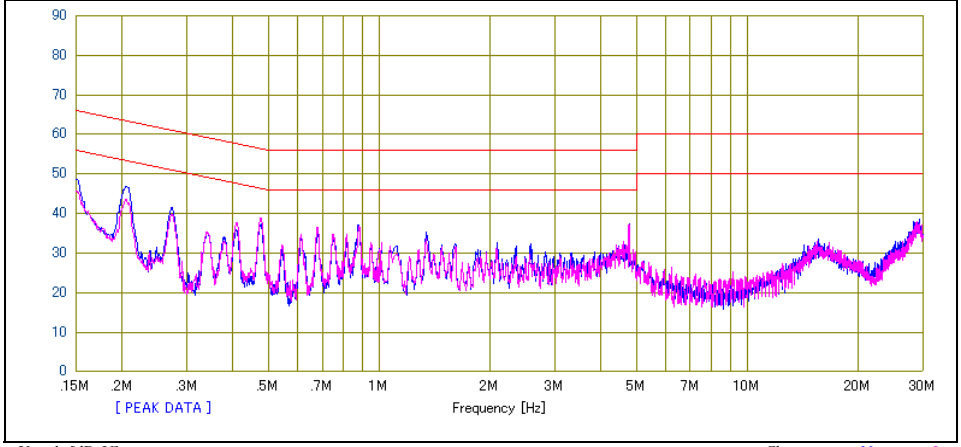
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission
(Power Supply: DELTA)
11g, Tx 2462MHz, ANT 1

DATA OF CONDUCTED EMISSION TEST

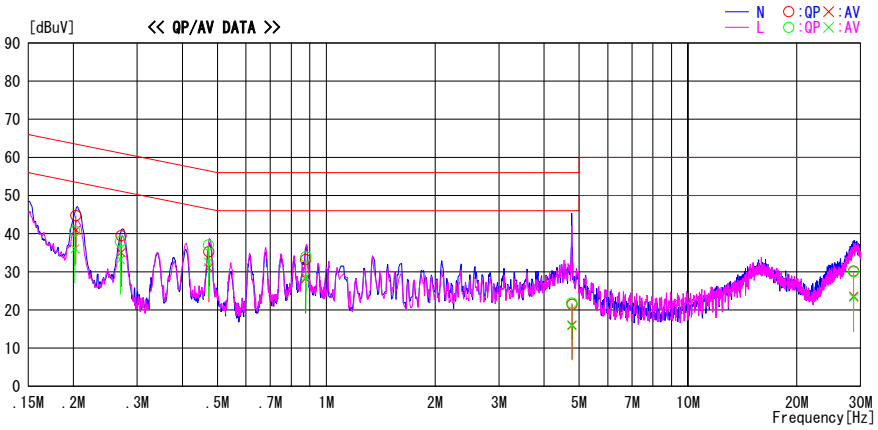
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/01/05

Report No. : 30EE0055-HO-01

Temp./Humi. : 22deg.C / 38%
Engineer : Takumi Shimada

Mode / Remarks : WLAN, Tx, 11g, 2462MHz, 24Mbps, ANT:1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.20291	44.4	40.7	0.3	44.7	41.0	63.5	53.5	18.8	12.5	N	
0.27084	39.2	34.8	0.3	39.5	35.1	61.1	51.1	21.6	16.0	N	
0.47305	35.0	30.8	0.3	35.3	31.1	56.5	46.5	21.2	15.4	N	
0.87711	32.9	27.9	0.3	33.2	28.2	56.0	46.0	22.8	17.8	N	
4.77739	20.8	15.4	0.7	21.5	16.1	56.0	46.0	34.5	29.9	N	
28.70860	28.3	21.7	1.9	30.2	23.6	60.0	50.0	29.8	26.4	N	
0.20171	40.4	35.8	0.3	40.7	36.1	63.5	53.5	22.8	17.4	L	
0.26949	37.6	32.9	0.3	37.9	33.2	61.1	51.1	23.2	17.9	L	
0.47226	36.7	32.3	0.3	37.0	32.6	56.5	46.5	19.5	13.9	L	
0.87799	33.6	28.4	0.3	33.9	28.7	56.0	46.0	22.1	17.3	L	
4.77438	21.1	15.2	0.7	21.8	15.9	56.0	46.0	34.2	30.1	L	
28.71664	28.1	21.4	1.9	30.0	23.3	60.0	50.0	30.0	26.7	L	

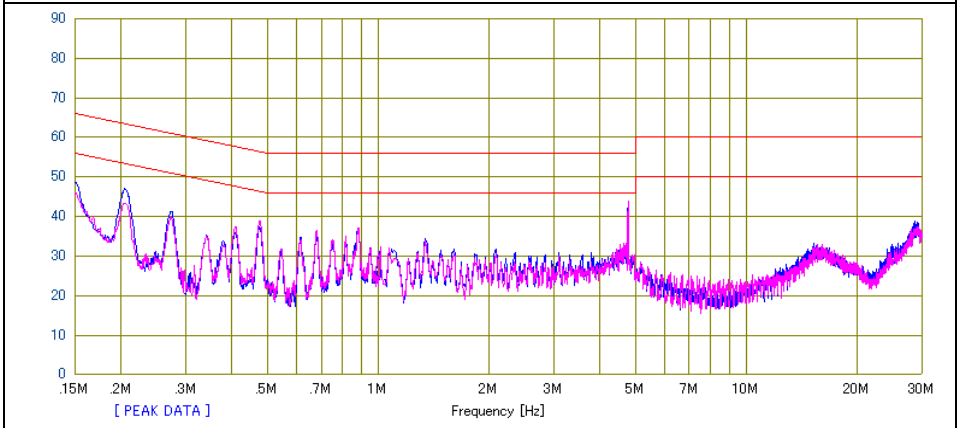
CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

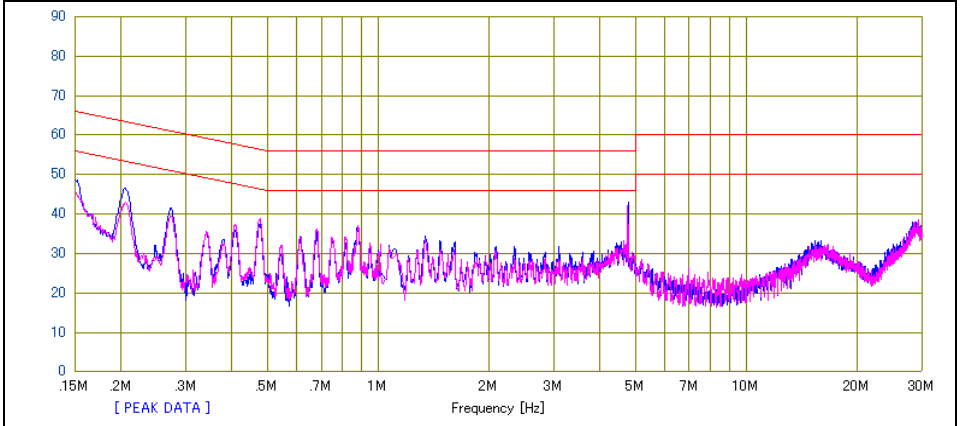
Conducted Emission
(Power Supply: DELTA)
11g, ANT 1

Test place	Head Office EMC Lab. No.4 Semi Anechoic Chamber
Report No.	30EE0055-HO-01
Date	01/05/2010
Temperature/ Humidity	22 deg.C./ 38%
Engineer	Takumi Shimada
Mode	11g Tx

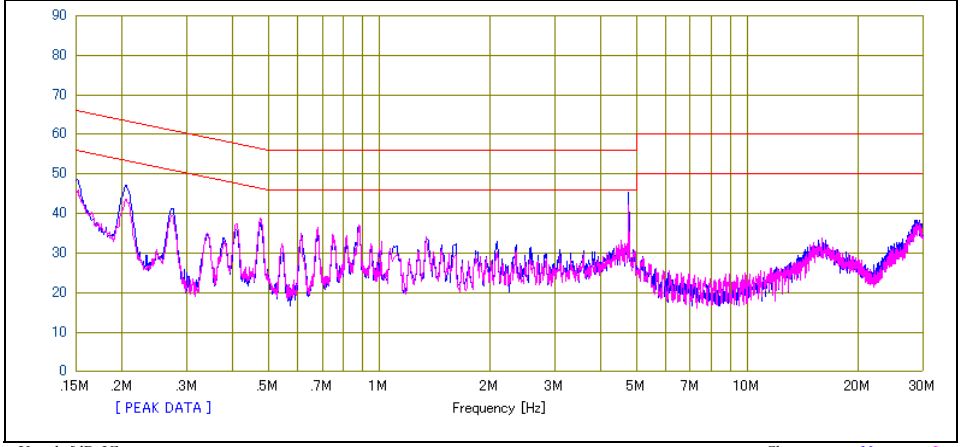
2412MHz



2437MHz



2462MHz



Y scale [dBuV] Chart — N — L

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission
(Power Supply: DELTA)
11b/g, Rx 2437MHz, ANT 0

DATA OF CONDUCTED EMISSION TEST

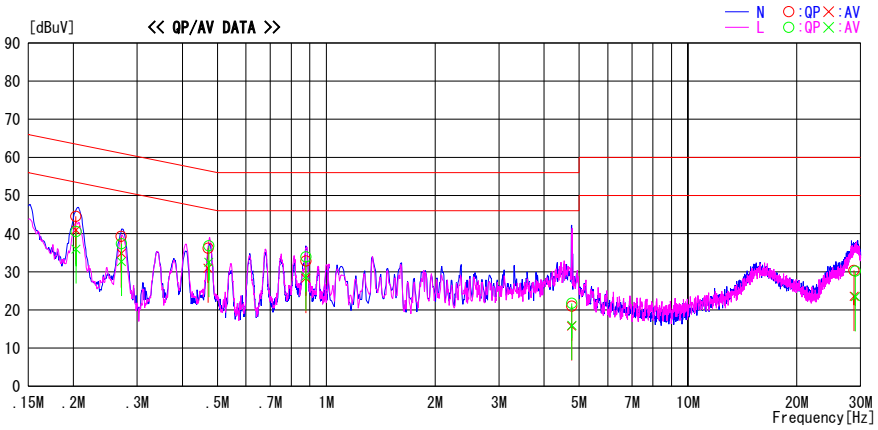
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/01/05

Report No. : 30EE0055-HO-01

Temp./Humi. : 22deg.C / 38%
Engineer : Takumi Shimada

Mode / Remarks : WLAN, Rx, 11b/g, 2437MHz, ANT:0

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.20290	44.3	40.7	0.3	44.6	41.0	63.5	53.5	18.9	12.5	N	
0.27109	39.0	34.6	0.3	39.3	34.9	61.1	51.1	21.8	16.2	N	
0.47109	35.9	30.7	0.3	36.2	31.0	56.5	46.5	20.3	15.5	N	
0.87746	32.5	28.0	0.3	32.8	28.3	56.0	46.0	23.2	17.7	N	
4.77060	20.3	15.1	0.7	21.0	15.8	56.0	46.0	35.0	30.2	N	
28.78832	28.5	21.7	1.9	30.4	23.6	60.0	50.0	29.6	26.4	N	
0.20314	40.3	35.7	0.3	40.6	36.0	63.5	53.5	22.9	17.5	L	
0.27127	37.1	32.4	0.3	37.4	32.7	61.1	51.1	23.7	18.4	L	
0.47313	36.5	32.2	0.3	36.8	32.5	56.5	46.5	19.7	14.0	L	
0.87739	33.6	28.6	0.3	33.9	28.9	56.0	46.0	22.1	17.1	L	
4.77681	21.0	15.3	0.7	21.7	16.0	56.0	46.0	34.3	30.0	L	
29.02100	28.2	21.5	2.0	30.2	23.5	60.0	50.0	29.8	26.5	L	

CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

Conducted Emission
(Power Supply: DELTA)
11b/g, Rx 2437MHz, ANT 1

DATA OF CONDUCTED EMISSION TEST

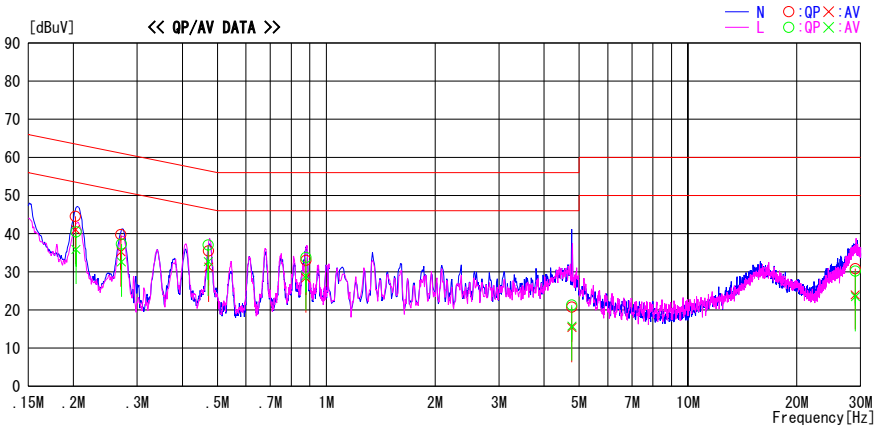
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/01/05

Report No. : 30EE0055-HO-01

Temp./Humi. : 22deg.C / 38%
Engineer : Takumi Shimada

Mode / Remarks : WLAN, Rx, 11b/g, 2437MHz, ANT:1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.20257	44.3	40.8	0.3	44.6	41.1	63.5	53.5	18.9	12.4	N	
0.27048	39.4	34.9	0.3	39.7	35.2	61.1	51.1	21.4	15.9	N	
0.47251	35.2	30.9	0.3	35.5	31.2	56.5	46.5	21.0	15.3	N	
0.87733	32.7	28.1	0.3	33.0	28.4	56.0	46.0	23.0	17.6	N	
4.77380	20.0	14.7	0.7	20.7	15.4	56.0	46.0	35.3	30.6	N	
29.00348	28.8	22.0	2.0	30.8	24.0	60.0	50.0	29.2	26.0	N	
0.20328	40.2	35.6	0.3	40.5	35.9	63.5	53.5	23.0	17.6	L	
0.27134	37.0	32.3	0.3	37.3	32.6	61.1	51.1	23.8	18.5	L	
0.47186	36.7	32.4	0.3	37.0	32.7	56.5	46.5	19.5	13.8	L	
0.87744	33.4	28.7	0.3	33.7	29.0	56.0	46.0	22.3	17.0	L	
4.77562	20.6	15.1	0.7	21.3	15.8	56.0	46.0	34.7	30.2	L	
29.01590	28.2	21.5	2.0	30.2	23.5	60.0	50.0	29.8	26.5	L	

CHART:WITH FACTOR,Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

Maximum Peak Output Power
11b Tx

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No.	30EE0055-HO
Date	12/07/2009
Temperature/ Humidity	23 deg.C./ 33%
Engineer	Takumi Shimada
Mode	11b Tx

Antenna 0

Freq.	Reading	Cable Loss	Atten.	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	2.03	0.80	10.08	12.91	19.54	30.00	1000	17.09
2437	2.19	0.80	10.08	13.07	20.28	30.00	1000	16.93
2462	2.43	0.80	10.08	13.31	21.43	30.00	1000	16.69

Antenna 1

Freq.	Reading	Cable Loss	Atten.	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	2.61	0.80	10.08	13.49	22.34	30.00	1000	16.51
2437	2.74	0.80	10.08	13.62	23.01	30.00	1000	16.38
2462	3.04	0.80	10.08	13.92	24.66	30.00	1000	16.08

Sample Calculation:
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator

Antenna 0, 2437MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
1	2.17	
2	2.14	
5.5	1.60	
11	2.19	*

Antenna 1, 2437MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
1	2.71	
2	2.71	
5.5	2.17	
11	2.74	*

*: Worst Rate
All comparizon were carried out on same frequency and measurement factors.

*Compared to the original test report: 29GE0205-HO-01-A-R1, difference in Maximum Peak Output Power is within +/- 0.5dB.

Maximum Peak Output Power
11g Tx

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No.	30EE0055-HO
Date	12/07/2009
Temperature/ Humidity	23 deg.C./ 33%
Engineer	Takumi Shimada
Mode	11g Tx

Antenna 0

Freq.	Reading	Cable Loss	Atten.	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	10.37	0.80	10.08	21.25	133.35	30.00	1000	8.75
2437	10.11	0.80	10.08	20.99	125.60	30.00	1000	9.01
2462	10.45	0.80	10.08	21.33	135.83	30.00	1000	8.67

Antenna 1

Freq.	Reading	Cable Loss	Atten.	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2412	10.45	0.80	10.08	21.33	135.83	30.00	1000	8.67
2437	10.40	0.80	10.08	21.28	134.28	30.00	1000	8.72
2462	10.63	0.80	10.08	21.51	141.58	30.00	1000	8.49

Sample Calculation:
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator

Antenna 0, 2437MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
6	10.08	
9	9.87	
12	9.91	
18	9.15	
24	10.11	*
36	9.99	
48	9.90	
54	9.85	

Antenna 1, 2437MHz

Rate	Reading	Remark
[Mbps]	[dBm]	
6	10.27	
9	10.11	
12	10.15	
18	9.51	
24	10.40	*
36	10.26	
48	9.96	
54	10.15	

*: Worst Rate
All comparizon were carried out on same frequency and measurement factors.

* Compared to the original test report: 29GE0205-HO-01-A-R1, difference in Maximum Peak Output Power is within +/- 0.5dB.

Radiated Spurious Emission
(Power Supply: SONY)
11b, Tx 2412MHz, ANT0

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada (1-10GHz)	Takumi Shimada (10-26.5GHz)	Takumi Shimada (30-1000MHz)
Mode	11b Tx 2412MHz 11Mbps ANT0		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.252	QP	40.0	11.2	7.4	32.2	26.4	40.0	13.6	
Hori	62.497	QP	49.7	7.2	7.6	32.2	32.3	40.0	7.7	
Hori	215.999	QP	44.1	16.9	9.3	32.0	38.3	43.5	5.2	
Hori	749.966	QP	34.5	20.9	12.6	31.7	36.3	46.0	9.7	
Hori	874.970	QP	32.1	21.9	13.2	31.1	36.1	46.0	9.9	
Hori	1941.570	PK	63.5	26.8	2.5	32.7	60.1	73.9	13.8	
Hori	2390.000	PK	52.9	27.2	2.7	32.3	50.5	73.9	23.4	
Hori	2400.000	PK	55.7	27.2	2.7	32.3	53.3	73.9	20.7	
Hori	4824.000	PK	40.0	31.7	4.7	31.4	45.0	73.9	28.9	
Hori	7236.000	PK	41.7	35.9	5.6	31.9	51.3	73.9	22.6	
Hori	9648.000	PK	43.2	38.5	6.6	32.7	55.6	73.9	18.3	
Hori	24120.000	PK	47.3	38.1	-1.5	30.4	53.5	73.9	20.4	
Hori	1941.570	AV	32.7	26.8	2.5	32.7	29.3	53.9	24.6	
Hori	2390.000	AV	39.0	27.2	2.7	32.3	36.6	53.9	17.3	
Hori	2400.000	AV	43.6	27.2	2.7	32.3	41.2	53.9	12.7	
Hori	4824.000	AV	28.4	31.7	4.7	31.4	33.4	53.9	20.5	
Hori	7236.000	AV	30.1	35.9	5.6	31.9	39.7	53.9	14.2	
Hori	9648.000	AV	30.6	38.5	6.6	32.7	43.0	53.9	11.0	
Hori	24120.000	AV	35.6	38.1	-1.5	30.4	41.8	53.9	12.1	
Vert	46.320	QP	49.6	11.6	7.4	32.2	36.4	40.0	3.6	
Vert	65.213	QP	47.3	6.8	7.7	32.2	29.6	40.0	10.4	
Vert	215.999	QP	37.1	16.9	9.3	32.0	31.3	43.5	12.2	
Vert	576.005	QP	33.9	19.5	11.7	32.0	33.1	46.0	12.9	
Vert	749.970	QP	39.2	20.9	12.6	31.7	41.0	46.0	5.0	
Vert	874.967	QP	32.7	21.9	13.2	31.1	36.7	46.0	9.3	
Vert	1942.600	PK	66.9	26.8	2.5	32.7	63.5	73.9	10.4	
Vert	2390.000	PK	53.0	27.2	2.7	32.3	50.6	73.9	23.3	
Vert	2400.000	PK	55.1	27.2	2.7	32.3	52.7	73.9	21.2	
Vert	4824.000	PK	41.6	31.7	4.7	31.4	46.6	73.9	27.3	
Vert	7236.000	PK	42.9	35.9	5.6	31.9	52.5	73.9	21.4	
Vert	9648.000	PK	43.5	38.5	6.6	32.7	55.9	73.9	18.0	
Vert	24120.000	PK	47.6	38.1	-1.5	30.4	53.8	73.9	20.1	
Vert	1942.600	AV	34.8	26.8	2.5	32.7	31.4	53.9	22.5	
Vert	2390.000	AV	36.3	27.2	2.7	32.3	33.9	53.9	20.0	
Vert	2400.000	AV	43.0	27.2	2.7	32.3	40.6	53.9	13.3	
Vert	4824.000	AV	28.4	31.7	4.7	31.4	33.4	53.9	20.5	
Vert	7236.000	AV	30.2	35.9	5.6	31.9	39.8	53.9	14.1	
Vert	9648.000	AV	30.6	38.5	6.6	32.7	43.0	53.9	10.9	
Vert	24120.000	AV	35.7	38.1	-1.5	30.4	41.9	53.9	12.1	

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).
*The 10th harmonic was not seen so the result was its base noise level.
Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission
(Power Supply: SONY)
11b, Tx 2437MHz, ANT0

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takumi Shimada
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11b Tx 2437MHz 11Mbps ANT0		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.234	QP	39.7	11.2	7.4	32.2	26.1	40.0	13.9	
Hori	62.494	QP	49.3	7.2	7.6	32.2	31.9	40.0	8.1	
Hori	215.999	QP	43.8	16.9	9.3	32.0	38.0	43.5	5.5	
Hori	576.004	QP	38.4	19.5	11.7	32.0	37.6	46.0	8.4	
Hori	749.964	QP	35.8	20.9	12.6	31.7	37.6	46.0	8.4	
Hori	874.964	QP	32.0	21.9	13.2	31.1	36.0	46.0	10.0	
Hori	1941.767	PK	64.9	26.8	2.5	32.7	61.5	73.9	12.4	
Hori	4874.000	PK	42.7	31.8	4.6	31.4	47.7	73.9	26.2	
Hori	7311.000	PK	43.9	36.1	5.6	31.9	53.7	73.9	20.2	
Hori	9748.000	PK	44.2	38.6	6.6	32.7	56.7	73.9	17.2	
Hori	24370.000	PK	46.7	38.5	-1.5	30.3	53.4	73.9	20.5	
Hori	1941.767	AV	35.3	26.8	2.5	32.7	31.9	53.9	22.0	
Hori	4874.000	AV	30.2	31.8	4.6	31.4	35.2	53.9	18.7	
Hori	7311.000	AV	31.7	36.1	5.6	31.9	41.5	53.9	12.4	
Hori	9748.000	AV	31.8	38.6	6.6	32.7	44.3	53.9	9.6	
Hori	24370.000	AV	35.1	38.5	-1.5	30.3	41.8	53.9	12.1	
Vert	46.150	QP	49.8	11.6	7.4	32.2	36.6	40.0	3.4	
Vert	65.117	QP	46.7	6.8	7.7	32.2	29.0	40.0	11.0	
Vert	215.999	QP	36.4	16.9	9.3	32.0	30.6	43.5	12.9	
Vert	576.011	QP	34.0	19.5	11.7	32.0	33.2	46.0	12.8	
Vert	749.964	QP	38.5	20.9	12.6	31.7	40.3	46.0	5.7	
Vert	874.966	QP	31.6	21.9	13.2	31.1	35.6	46.0	10.4	
Vert	1941.367	PK	67.4	26.8	2.5	32.7	64.0	73.9	9.9	
Vert	4874.000	PK	42.6	31.8	4.6	31.4	47.6	73.9	26.3	
Vert	7311.000	PK	44.2	36.1	5.6	31.9	54.0	73.9	19.9	
Vert	9748.000	PK	44.7	38.6	6.6	32.7	57.2	73.9	16.7	
Vert	24370.000	PK	46.8	38.5	-1.5	30.3	53.5	73.9	20.4	
Vert	1941.367	AV	31.1	26.8	2.5	32.7	27.7	53.9	26.2	
Vert	4874.000	AV	30.1	31.8	4.6	31.4	35.1	53.9	18.8	
Vert	7311.000	AV	31.7	36.1	5.6	31.9	41.5	53.9	12.4	
Vert	9748.000	AV	31.8	38.6	6.6	32.7	44.3	53.9	9.6	
Vert	24370.000	AV	35.1	38.5	-1.5	30.3	41.8	53.9	12.1	

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

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

*The 10th harmonic was not seen so the result was its base noise level.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission
(Power Supply: SONY)
11b, Tx 2462MHz, ANT0

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takumi Shimada
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11b Tx 2462MHz 11Mbps ANT0		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.119	QP	39.5	11.3	7.4	32.2	26.0	40.0	14.0	
Hori	62.521	QP	49.6	7.2	7.6	32.2	32.2	40.0	7.8	
Hori	215.999	QP	43.2	16.9	9.3	32.0	37.4	43.5	6.1	
Hori	576.006	QP	38.9	19.5	11.7	32.0	38.1	46.0	7.9	
Hori	749.963	QP	35.4	20.9	12.6	31.7	37.2	46.0	8.8	
Hori	874.963	QP	32.8	21.9	13.2	31.1	36.8	46.0	9.2	
Hori	1941.667	PK	65.4	26.8	2.5	32.7	62.0	73.9	11.9	
Hori	2483.500	PK	49.9	27.3	2.8	32.2	47.8	73.9	26.1	
Hori	4924.000	PK	41.2	31.8	4.6	31.4	46.2	73.9	27.7	
Hori	7386.000	PK	42.7	36.2	5.6	32.0	52.5	73.9	21.4	
Hori	9848.000	PK	42.7	38.8	6.7	32.7	55.5	73.9	18.4	
Hori	24620.000	PK	46.3	38.8	-1.4	30.1	53.6	73.9	20.3	
Hori	1941.667	AV	34.4	26.8	2.5	32.7	31.0	53.9	22.9	
Hori	2483.500	AV	37.5	27.3	2.8	32.2	35.4	53.9	18.5	
Hori	4924.000	AV	28.7	31.8	4.6	31.4	33.7	53.9	20.2	
Hori	7386.000	AV	30.1	36.2	5.6	32.0	39.9	53.9	14.0	
Hori	9848.000	AV	30.3	38.8	6.7	32.7	43.1	53.9	10.8	
Hori	24620.000	AV	33.8	38.8	-1.4	30.1	41.1	53.9	12.8	
Vert	46.138	QP	49.4	11.6	7.4	32.2	36.2	40.0	3.8	
Vert	65.127	QP	46.8	6.8	7.7	32.2	29.1	40.0	10.9	
Vert	215.999	QP	36.1	16.9	9.3	32.0	30.3	43.5	13.2	
Vert	576.021	QP	34.3	19.5	11.7	32.0	33.5	46.0	12.5	
Vert	749.967	QP	38.1	20.9	12.6	31.7	39.9	46.0	6.1	
Vert	874.967	QP	31.3	21.9	13.2	31.1	35.3	46.0	10.7	
Vert	1942.417	PK	66.2	26.8	2.5	32.7	62.8	73.9	11.1	
Vert	2483.500	PK	48.5	27.3	2.8	32.2	46.4	73.9	27.5	
Vert	4924.000	PK	41.2	31.8	4.6	31.4	46.2	73.9	27.7	
Vert	7386.000	PK	42.6	36.2	5.6	32.0	52.4	73.9	21.5	
Vert	9848.000	PK	43.0	38.8	6.7	32.7	55.8	73.9	18.1	
Vert	24620.000	PK	46.2	38.8	-1.4	30.1	53.5	73.9	20.4	
Vert	1942.417	AV	35.9	26.8	2.5	32.7	32.5	53.9	21.4	
Vert	2483.500	AV	36.1	27.3	2.8	32.2	34.0	53.9	19.9	
Vert	4924.000	AV	28.7	31.8	4.6	31.4	33.7	53.9	20.2	
Vert	7386.000	AV	30.1	36.2	5.6	32.0	39.9	53.9	14.0	
Vert	9848.000	AV	30.3	38.8	6.7	32.7	43.1	53.9	10.8	
Vert	24620.000	AV	33.7	38.8	-1.4	30.1	41.0	53.9	12.9	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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
(Power Supply: SONY)
11b, Tx 2412MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takeshi Choda
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11b Tx 2412MHz 11Mbps ANT1		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	46.987	QP	38.3	11.3	7.4	32.2	24.8	40.0	15.2	
Hori	62.497	QP	48.3	7.2	7.6	32.2	30.9	40.0	9.1	
Hori	215.999	QP	45.1	16.9	9.3	32.0	39.3	43.5	4.2	
Hori	749.959	QP	36.2	20.9	12.6	31.7	38.0	46.0	8.0	
Hori	874.952	QP	31.3	21.9	13.2	31.1	35.3	46.0	10.7	
Hori	1943.933	PK	65.4	26.8	2.5	32.7	62.0	73.9	11.9	
Hori	2390.000	PK	54.8	27.2	2.7	32.3	52.4	73.9	21.5	
Hori	2400.000	PK	60.3	27.2	2.7	32.3	57.9	73.9	16.0	
Hori	4824.000	PK	41.4	31.7	4.7	31.4	46.4	73.9	27.5	
Hori	7236.000	PK	42.3	35.9	5.6	31.9	51.9	73.9	22.0	
Hori	9648.000	PK	42.9	38.5	6.6	32.7	55.3	73.9	18.6	
Hori	24120.000	PK	47.7	38.1	-1.5	30.4	53.9	73.9	20.0	
Hori	1943.933	AV	34.7	26.8	2.5	32.7	31.3	53.9	22.6	
Hori	2390.000	AV	42.0	27.2	2.7	32.3	39.6	53.9	14.3	
Hori	2400.000	AV	47.9	27.2	2.7	32.3	45.5	53.9	8.4	
Hori	4824.000	AV	29.0	31.7	4.7	31.4	34.0	53.9	19.9	
Hori	9648.000	AV	30.6	38.5	6.6	32.7	43.0	53.9	10.9	
Hori	24120.000	AV	35.4	38.1	-1.5	30.4	41.6	53.9	12.3	
Vert	46.762	QP	49.3	11.4	7.4	32.2	35.9	40.0	4.1	
Vert	65.833	QP	50.0	6.7	7.7	32.2	32.2	40.0	7.8	
Vert	215.999	QP	33.5	16.9	9.3	32.0	27.7	43.5	15.8	
Vert	576.004	QP	33.8	19.5	11.7	32.0	33.0	46.0	13.0	
Vert	749.960	QP	37.3	20.9	12.6	31.7	39.1	46.0	6.9	
Vert	874.953	QP	31.4	21.9	13.2	31.1	35.4	46.0	10.6	
Vert	1943.845	PK	67.1	26.8	2.5	32.7	63.7	73.9	10.2	
Vert	2390.000	PK	54.2	27.2	2.7	32.3	51.8	73.9	22.1	
Vert	2400.000	PK	56.6	27.2	2.7	32.3	54.2	73.9	19.7	
Vert	4824.000	PK	40.7	31.7	4.7	31.4	45.7	73.9	28.2	
Vert	7236.000	PK	41.8	35.9	5.6	31.9	51.4	73.9	22.5	
Vert	9648.000	PK	42.5	38.5	6.6	32.7	54.9	73.9	19.0	
Vert	24120.000	PK	47.6	38.1	-1.5	30.4	53.8	73.9	20.1	
Vert	1943.845	AV	34.6	26.8	2.5	32.7	31.2	53.9	22.7	
Vert	2390.000	AV	40.2	27.2	2.7	32.3	37.8	53.9	16.1	
Vert	2400.000	AV	44.6	27.2	2.7	32.3	42.2	53.9	11.7	
Vert	4824.000	AV	30.8	31.7	4.7	31.4	35.8	53.9	18.1	
Vert	7236.000	AV	30.6	35.9	5.6	31.9	40.2	53.9	13.7	
Vert	9648.000	AV	30.9	38.5	6.6	32.7	43.3	53.9	10.6	
Vert	24120.000	AV	35.6	38.1	-1.5	30.4	41.8	53.9	12.1	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

Radiated Spurious Emission
(Power Supply: SONY)
11b, Tx 2437MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takeshi Choda
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11b Tx 2437MHz 11Mbps ANT1		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	46.987	QP	38.9	11.3	7.4	32.2	25.4	40.0	14.6	
Hori	215.999	QP	43.7	16.9	9.3	32.0	37.9	43.5	5.6	
Hori	576.004	QP	38.4	19.5	11.7	32.0	37.6	46.0	8.4	
Hori	749.960	QP	37.2	20.9	12.6	31.7	39.0	46.0	7.0	
Hori	874.953	QP	30.8	21.9	13.2	31.1	34.8	46.0	11.2	
Hori	1944.967	PK	64.9	26.8	2.5	32.7	61.5	73.9	12.4	
Hori	4874.000	PK	40.9	31.8	4.6	31.4	45.9	73.9	28.0	
Hori	7311.000	PK	42.3	36.1	5.6	31.9	52.1	73.9	21.8	
Hori	9748.000	PK	42.1	38.6	6.6	32.7	54.6	73.9	19.3	
Hori	24370.000	PK	46.9	38.5	-1.5	30.3	53.6	73.9	20.3	
Hori	4874.000	AV	28.7	31.8	4.6	31.4	33.7	53.9	20.2	
Hori	7311.000	AV	30.8	36.1	5.6	31.9	40.6	53.9	13.3	
Hori	9748.000	AV	30.6	38.6	6.6	32.7	43.1	53.9	10.8	
Hori	24370.000	AV	35.3	38.5	-1.5	30.3	42.0	53.9	11.9	
Vert	46.762	QP	49.2	11.4	7.4	32.2	35.8	40.0	4.2	
Vert	65.861	QP	48.5	6.7	7.7	32.2	30.7	40.0	9.3	
Vert	215.999	QP	33.6	16.9	9.3	32.0	27.8	43.5	15.7	
Vert	576.004	QP	33.9	19.5	11.7	32.0	33.1	46.0	12.9	
Vert	749.959	QP	36.9	20.9	12.6	31.7	38.7	46.0	7.3	
Vert	874.953	QP	31.6	21.9	13.2	31.1	35.6	46.0	10.4	
Vert	1944.967	PK	66.9	26.8	2.5	32.7	63.5	73.9	10.4	
Vert	4874.000	PK	41.3	31.8	4.6	31.4	46.3	73.9	27.6	
Vert	7311.000	PK	41.8	36.1	5.6	31.9	51.6	73.9	22.3	
Vert	9748.000	PK	42.1	38.6	6.6	32.7	54.6	73.9	19.3	
Vert	24370.000	PK	46.7	38.5	-1.5	30.3	53.4	73.9	20.5	
Vert	1944.967	AV	36.2	26.8	2.5	32.7	32.8	53.9	21.1	
Vert	4874.000	AV	30.1	31.8	4.6	31.4	35.1	53.9	18.8	
Vert	7311.000	AV	29.8	36.1	5.6	31.9	39.6	53.9	14.3	
Vert	9748.000	AV	30.2	38.6	6.6	32.7	42.7	53.9	11.2	
Vert	24370.000	AV	35.1	38.5	-1.5	30.3	41.8	53.9	12.1	

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

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

*The 10th harmonic was not seen so the result was its base noise level.

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

Radiated Spurious Emission
(Power Supply: SONY)
11b, Tx 2462MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada (1-10GHz)	Takumi Shimada (10-26.5GHz)	Takeshi Choda (30-1000MHz)
Mode	11b Tx 2462MHz 11Mbps ANT1		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.120	QP	40.4	11.3	7.4	32.2	26.9	40.0	13.1	
Hori	62.496	QP	48.9	7.2	7.6	32.2	31.5	40.0	8.5	
Hori	215.999	QP	43.8	16.9	9.3	32.0	38.0	43.5	5.5	
Hori	576.004	QP	38.3	19.5	11.7	32.0	37.5	46.0	8.5	
Hori	749.960	QP	36.0	20.9	12.6	31.7	37.8	46.0	8.2	
Hori	874.953	QP	30.4	21.9	13.2	31.1	34.4	46.0	11.6	
Hori	1943.975	PK	65.6	26.8	2.5	32.7	62.2	73.9	11.7	
Hori	2483.500	PK	50.2	27.3	2.8	32.2	48.1	73.9	25.8	
Hori	4924.000	PK	40.4	31.8	4.6	31.4	45.4	73.9	28.5	
Hori	7386.000	PK	41.5	36.2	5.6	32.0	51.3	73.9	22.6	
Hori	9848.000	PK	42.1	38.8	6.7	32.7	54.9	73.9	19.0	
Hori	24620.000	PK	46.4	38.8	-1.4	30.1	53.7	73.9	20.2	
Hori	1943.975	AV	36.8	26.8	2.5	32.7	33.4	53.9	20.5	
Hori	2483.500	AV	38.6	27.3	2.8	32.2	36.5	53.9	17.4	
Hori	4924.000	AV	28.7	31.8	4.6	31.4	33.7	53.9	20.2	
Hori	7386.000	AV	30.0	36.2	5.6	32.0	39.8	53.9	14.1	
Hori	9848.000	AV	30.3	38.8	6.7	32.7	43.1	53.9	10.8	
Hori	24620.000	AV	35.4	38.8	-1.4	30.1	42.7	53.9	11.2	
Vert	46.762	QP	49.1	11.4	7.4	32.2	35.7	40.0	4.3	
Vert	65.861	QP	48.3	6.7	7.7	32.2	30.5	40.0	9.5	
Vert	215.999	QP	33.9	16.9	9.3	32.0	28.1	43.5	15.4	
Vert	576.004	QP	33.5	19.5	11.7	32.0	32.7	46.0	13.3	
Vert	749.959	QP	37.1	20.9	12.6	31.7	38.9	46.0	7.1	
Vert	874.953	QP	31.5	21.9	13.2	31.1	35.5	46.0	10.5	
Vert	1943.975	PK	67.5	26.8	2.5	32.7	64.1	73.9	9.8	
Vert	2483.500	PK	49.7	27.3	2.8	32.2	47.6	73.9	26.3	
Vert	4924.000	PK	40.3	31.8	4.6	31.4	45.3	73.9	28.6	
Vert	7386.000	PK	41.8	36.2	5.6	32.0	51.6	73.9	22.3	
Vert	9848.000	PK	42.9	38.8	6.7	32.7	55.7	73.9	18.2	
Vert	24620.000	PK	46.3	38.8	-1.4	30.1	53.6	73.9	20.3	
Vert	1943.975	AV	35.1	26.8	2.5	32.7	31.7	53.9	22.2	
Vert	2483.500	AV	37.5	27.3	2.8	32.2	35.4	53.9	18.5	
Vert	4924.000	AV	28.9	31.8	4.6	31.4	33.9	53.9	20.0	
Vert	7386.000	AV	30.3	36.2	5.6	32.0	40.1	53.9	13.8	
Vert	9848.000	AV	30.2	38.8	6.7	32.7	43.0	53.9	10.9	
Vert	24620.000	AV	35.5	38.8	-1.4	30.1	42.8	53.9	11.2	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2412MHz, ANT0

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada (1-10GHz)	Takumi Shimada (10-26.5GHz)	Takumi Shimada (30-1000MHz)
Mode	11g Tx 2412MHz 24Mbps ANT0		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	46.963	QP	38.3	11.3	7.4	32.2	24.8	40.0	15.2	
Hori	62.499	QP	48.1	7.2	7.6	32.2	30.7	40.0	9.3	
Hori	215.999	QP	44.1	16.9	9.3	32.0	38.3	43.5	5.2	
Hori	576.011	QP	37.7	19.5	11.7	32.0	36.9	46.0	9.1	
Hori	749.951	QP	35.0	20.9	12.6	31.7	36.8	46.0	9.2	
Hori	874.938	QP	32.3	21.9	13.2	31.1	36.3	46.0	9.7	
Hori	1943.672	PK	64.1	26.8	2.5	32.7	60.7	73.9	13.2	
Hori	1943.672	PK	35.7	26.8	2.5	32.7	32.3	73.9	41.6	
Hori	2390.000	PK	56.9	27.2	2.7	32.3	54.5	73.9	19.4	
Hori	2400.000	PK	77.7	27.2	2.7	32.3	75.3	-	-	See 20dBc Data Sheet
Hori	4824.000	PK	40.4	31.7	4.7	31.4	45.4	73.9	28.5	
Hori	7236.000	PK	42.2	35.9	5.6	31.9	51.8	73.9	22.1	
Hori	9648.000	PK	42.1	38.5	6.6	32.7	54.5	73.9	19.4	
Hori	24120.000	PK	47.4	38.1	-1.5	30.4	53.6	73.9	20.3	
Hori	2390.000	AV	42.1	27.2	2.7	32.3	39.7	53.9	14.2	
Hori	2400.000	AV	58.7	27.2	2.7	32.3	56.3	-	-	See 20dBc Data Sheet
Hori	4824.000	AV	28.5	31.7	4.7	31.4	33.5	53.9	20.4	
Hori	7236.000	AV	30.2	35.9	5.6	31.9	39.8	53.9	14.1	
Hori	9648.000	AV	30.5	38.5	6.6	32.7	42.9	53.9	11.0	
Hori	24120.000	AV	35.5	38.1	-1.5	30.4	41.7	53.9	12.2	
Vert	46.198	QP	49.9	11.6	7.4	32.2	36.7	40.0	3.3	
Vert	65.161	QP	46.6	6.8	7.7	32.2	28.9	40.0	11.1	
Vert	215.999	QP	36.6	16.9	9.3	32.0	30.8	43.5	12.7	
Vert	576.002	QP	34.1	19.5	11.7	32.0	33.3	46.0	12.7	
Vert	749.952	QP	38.5	20.9	12.6	31.7	40.3	46.0	5.7	
Vert	874.933	QP	31.5	21.9	13.2	31.1	35.5	46.0	10.5	
Vert	1943.672	PK	67.2	26.8	2.5	32.7	63.8	73.9	10.1	
Vert	2390.000	PK	58.7	27.2	2.7	32.3	56.3	73.9	17.6	
Vert	2400.000	PK	78.8	27.2	2.7	32.3	76.4	-	-	See 20dBc Data Sheet
Vert	4824.000	PK	40.3	31.7	4.7	31.4	45.3	73.9	28.6	
Vert	7236.000	PK	42.1	35.9	5.6	31.9	51.7	73.9	22.2	
Vert	9648.000	PK	42.9	38.5	6.6	32.7	55.3	73.9	18.6	
Vert	24120.000	PK	47.8	38.1	-1.5	30.4	54.0	73.9	19.9	
Vert	1943.672	AV	34.5	26.8	2.5	32.7	31.1	53.9	22.8	
Vert	2390.000	AV	42.2	27.2	2.7	32.3	39.8	53.9	14.1	
Vert	2400.000	AV	60.3	27.2	2.7	32.3	57.9	-	-	See 20dBc Data Sheet
Vert	4824.000	AV	28.4	31.7	4.7	31.4	33.4	53.9	20.5	
Vert	7236.000	AV	30.2	35.9	5.6	31.9	39.8	53.9	14.1	
Vert	9648.000	AV	30.5	38.5	6.6	32.7	42.9	53.9	11.0	
Vert	24120.000	AV	35.6	38.1	-1.5	30.4	41.8	53.9	12.1	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2412MHz, ANT0

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 30EE0055-H0-01
Date 12/08/2009
Temperature/ Humidity 23 deg.C./ 33%
Engineer Takumi Shimada
(1-10GHz)
Mode 11g Tx 2412MHz 24Mbps ANT0

20dBc Data Sheet

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2412.000	PK	95.5	27.2	2.7	32.3	93.1	-	-	Carrier
Hori	2400.000	PK	63.1	27.2	2.7	32.3	60.7	73.1	12.4	
Vert	2412.000	PK	96.0	27.2	2.7	32.3	93.6	-	-	Carrier
Vert	2400.000	PK	63.8	27.2	2.7	32.3	61.4	73.6	12.2	

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

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2437MHz, ANT0

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takumi Shimada
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11g Tx 2437MHz 24Mbps ANT0		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.453	QP	39.5	11.2	7.4	32.2	25.9	40.0	14.1	
Hori	62.498	QP	49.2	7.2	7.6	32.2	31.8	40.0	8.2	
Hori	215.999	QP	44.3	16.9	9.3	32.0	38.5	43.5	5.0	
Hori	576.003	QP	39.0	19.5	11.7	32.0	38.2	46.0	7.8	
Hori	749.956	QP	35.5	20.9	12.6	31.7	37.3	46.0	8.7	
Hori	874.953	QP	32.1	21.9	13.2	31.1	36.1	46.0	9.9	
Hori	1943.767	PK	65.7	26.8	2.5	32.7	62.3	73.9	11.6	
Hori	4874.000	PK	40.3	31.8	4.6	31.4	45.3	73.9	28.6	
Hori	7311.000	PK	42.2	36.1	5.6	31.9	52.0	73.9	21.9	
Hori	9748.000	PK	42.8	38.6	6.6	32.7	55.3	73.9	18.6	
Hori	24370.000	PK	46.9	38.5	-1.5	30.3	53.6	73.9	20.3	
Hori	1943.767	AV	36.8	26.8	2.5	32.7	33.4	53.9	20.5	
Hori	4874.000	AV	28.5	31.8	4.6	31.4	33.5	53.9	20.4	
Hori	7311.000	AV	30.1	36.1	5.6	31.9	39.9	53.9	14.0	
Hori	9748.000	AV	30.1	38.6	6.6	32.7	42.6	53.9	11.3	
Hori	24370.000	AV	35.3	38.5	-1.5	30.3	42.0	53.9	11.9	
Vert	46.198	QP	49.7	11.6	7.4	32.2	36.5	40.0	3.5	
Vert	65.035	QP	46.4	6.8	7.7	32.2	28.7	40.0	11.3	
Vert	215.999	QP	36.9	16.9	9.3	32.0	31.1	43.5	12.4	
Vert	575.997	QP	34.2	19.5	11.7	32.0	33.4	46.0	12.6	
Vert	749.968	QP	38.1	20.9	12.6	31.7	39.9	46.0	6.1	
Vert	874.961	QP	31.0	21.9	13.2	31.1	35.0	46.0	11.0	
Vert	1943.767	PK	67.8	26.8	2.5	32.7	64.4	73.9	9.5	
Vert	4874.000	PK	40.7	31.8	4.6	31.4	45.7	73.9	28.2	
Vert	7311.000	PK	41.8	36.1	5.6	31.9	51.6	73.9	22.3	
Vert	9748.000	PK	41.7	38.6	6.6	32.7	54.2	73.9	19.7	
Vert	24370.000	PK	46.7	38.5	-1.5	30.3	53.4	73.9	20.5	
Vert	1943.767	AV	37.2	26.8	2.5	32.7	33.8	53.9	20.1	
Vert	4874.000	AV	28.5	31.8	4.6	31.4	33.5	53.9	20.4	
Vert	7311.000	AV	30.1	36.1	5.6	31.9	39.9	53.9	14.0	
Vert	9748.000	AV	30.1	38.6	6.6	32.7	42.6	53.9	11.3	
Vert	24370.000	AV	35.2	38.5	-1.5	30.3	41.9	53.9	12.0	

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

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

*The 10th harmonic was not seen so the result was its base noise level.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2462MHz, ANT0

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takumi Shimada
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11g Tx 2462MHz 24Mbps ANT0		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.845	QP	38.9	11.0	7.4	32.2	25.1	40.0	14.9	
Hori	62.495	QP	49.9	7.2	7.6	32.2	32.5	40.0	7.5	
Hori	215.999	QP	44.3	16.9	9.3	32.0	38.5	43.5	5.0	
Hori	576.001	QP	38.4	19.5	11.7	32.0	37.6	46.0	8.4	
Hori	749.971	QP	36.1	20.9	12.6	31.7	37.9	46.0	8.1	
Hori	874.969	QP	31.2	21.9	13.2	31.1	35.2	46.0	10.8	
Hori	1944.538	PK	63.6	26.8	2.5	32.7	60.2	73.9	13.7	
Hori	2483.500	PK	58.6	27.3	2.8	32.2	56.5	73.9	17.4	
Hori	4924.000	PK	41.4	31.8	4.6	31.4	46.4	73.9	27.5	
Hori	7386.000	PK	42.3	36.2	5.6	32.0	52.1	73.9	21.8	
Hori	9848.000	PK	42.5	38.8	6.7	32.7	55.3	73.9	18.6	
Hori	24620.000	PK	46.4	38.8	-1.4	30.1	53.7	73.9	20.2	
Hori	1944.538	AV	34.9	26.8	2.5	32.7	31.5	53.9	22.4	
Hori	2483.500	AV	43.2	27.3	2.8	32.2	41.1	53.9	12.8	
Hori	4924.000	AV	29.1	31.8	4.6	31.4	34.1	53.9	19.8	
Hori	7386.000	AV	30.1	36.2	5.6	32.0	39.9	53.9	14.0	
Hori	9848.000	AV	30.3	38.8	6.7	32.7	43.1	53.9	10.8	
Hori	24620.000	AV	33.6	38.8	-1.4	30.1	40.9	53.9	13.0	
Vert	46.368	QP	49.5	11.5	7.4	32.2	36.2	40.0	3.8	
Vert	64.859	QP	45.8	6.9	7.7	32.2	28.2	40.0	11.8	
Vert	215.999	QP	36.3	16.9	9.3	32.0	30.5	43.5	13.0	
Vert	576.003	QP	34.0	19.5	11.7	32.0	33.2	46.0	12.8	
Vert	749.965	QP	39.1	20.9	12.6	31.7	40.9	46.0	5.1	
Vert	874.965	QP	32.6	21.9	13.2	31.1	36.6	46.0	9.4	
Vert	1944.538	PK	67.6	26.8	2.5	32.7	64.2	73.9	9.7	
Vert	2483.500	PK	58.1	27.3	2.8	32.2	56.0	73.9	17.9	
Vert	4924.000	PK	41.1	31.8	4.6	31.4	46.1	73.9	27.8	
Vert	7386.000	PK	42.0	36.2	5.6	32.0	51.8	73.9	22.1	
Vert	9848.000	PK	42.3	38.8	6.7	32.7	55.1	73.9	18.8	
Vert	24620.000	PK	46.3	38.8	-1.4	30.1	53.6	73.9	20.3	
Vert	1944.538	AV	35.1	26.8	2.5	32.7	31.7	53.9	22.2	
Vert	2483.500	AV	42.4	27.3	2.8	32.2	40.3	53.9	13.6	
Vert	4924.000	AV	28.8	31.8	4.6	31.4	33.8	53.9	20.1	
Vert	7386.000	AV	30.0	36.2	5.6	32.0	39.8	53.9	14.1	
Vert	9848.000	AV	30.3	38.8	6.7	32.7	43.1	53.9	10.8	
Vert	24620.000	AV	33.7	38.8	-1.4	30.1	41.0	53.9	12.9	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2412MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takeshi Choda
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11g Tx 2412MHz 24Mbps ANT1		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.097	QP	40.5	11.3	7.4	32.2	27.0	40.0	13.0	
Hori	62.496	QP	48.7	7.2	7.6	32.2	31.3	40.0	8.7	
Hori	215.999	QP	43.9	16.9	9.3	32.0	38.1	43.5	5.4	
Hori	576.004	QP	37.6	19.5	11.7	32.0	36.8	46.0	9.2	
Hori	749.960	QP	36.4	20.9	12.6	31.7	38.2	46.0	7.8	
Hori	874.953	QP	31.0	21.9	13.2	31.1	35.0	46.0	11.0	
Hori	1943.672	PK	63.7	26.8	2.5	32.7	60.3	73.9	13.6	
Hori	2390.000	PK	62.7	27.2	2.7	32.3	60.3	73.9	13.6	
Hori	2400.000	PK	83.0	27.2	2.7	32.3	80.6	-	-	See 20dBc Data Sheet
Hori	4824.000	PK	40.1	31.7	4.7	31.4	45.1	73.9	28.8	
Hori	7236.000	PK	41.4	35.9	5.6	31.9	51.0	73.9	22.9	
Hori	9648.000	PK	42.4	38.5	6.6	32.7	54.8	73.9	19.1	
Hori	24120.000	PK	47.8	38.1	-1.5	30.4	54.0	73.9	19.9	
Hori	1943.672	AV	35.9	26.8	2.5	32.7	32.5	53.9	21.4	
Hori	2390.000	AV	47.6	27.2	2.7	32.3	45.2	53.9	8.7	
Hori	2400.000	AV	63.6	27.2	2.7	32.3	61.2	-	-	See 20dBc Data Sheet
Hori	4824.000	AV	29.3	31.7	4.7	31.4	34.3	53.9	19.6	
Hori	7236.000	AV	30.1	35.9	5.6	31.9	39.7	53.9	14.2	
Hori	9648.000	AV	30.5	38.5	6.6	32.7	42.9	53.9	11.0	
Hori	24120.000	AV	35.7	38.1	-1.5	30.4	41.9	53.9	12.0	
Vert	46.873	QP	49.0	11.4	7.4	32.2	35.6	40.0	4.4	
Vert	65.773	QP	48.8	6.7	7.7	32.2	31.0	40.0	9.0	
Vert	215.999	QP	34.8	16.9	9.3	32.0	29.0	43.5	14.5	
Vert	576.004	QP	34.0	19.5	11.7	32.0	33.2	46.0	12.8	
Vert	749.960	QP	37.0	20.9	12.6	31.7	38.8	46.0	7.2	
Vert	874.954	QP	32.0	21.9	13.2	31.1	36.0	46.0	10.0	
Vert	1943.672	PK	66.9	26.8	2.5	32.7	63.5	73.9	10.4	
Vert	2390.000	PK	60.6	27.2	2.7	32.3	58.2	73.9	15.7	
Vert	2400.000	PK	80.3	27.2	2.7	32.3	77.9	-	-	See 20dBc Data Sheet
Vert	4824.000	PK	41.0	31.7	4.7	31.4	46.0	73.9	27.9	
Vert	7236.000	PK	42.0	35.9	5.6	31.9	51.6	73.9	22.3	
Vert	9648.000	PK	42.5	38.5	6.6	32.7	54.9	73.9	19.0	
Vert	24120.000	PK	47.7	38.1	-1.5	30.4	53.9	73.9	20.0	
Vert	1943.672	AV	34.9	26.8	2.5	32.7	31.5	53.9	22.4	
Vert	2390.000	AV	44.1	27.2	2.7	32.3	41.7	53.9	12.2	
Vert	2400.000	AV	60.5	27.2	2.7	32.3	58.1	-	-	See 20dBc Data Sheet
Vert	4824.000	AV	28.8	31.7	4.7	31.4	33.8	53.9	20.1	
Vert	7236.000	AV	30.5	35.9	5.6	31.9	40.1	53.9	13.8	
Vert	9648.000	AV	30.5	38.5	6.6	32.7	42.9	53.9	11.0	
Vert	24120.000	AV	35.8	38.1	-1.5	30.4	42.0	53.9	11.9	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2412MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada (1-10GHz)	Takumi Shimada (10-26.5GHz)	Takeshi Choda (30-1000MHz)
Mode	11g Tx 2412MHz 24Mbps ANT1		

20dBc Data Sheet

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2412.000	PK	100.8	27.2	2.7	32.3	98.4	-	-	Carrier
Hori	2400.000	PK	67.8	27.2	2.7	32.3	65.4	78.4	13.0	
Vert	2412.000	PK	98.2	27.2	2.7	32.3	95.8	-	-	Carrier
Vert	2400.000	PK	65.1	27.2	2.7	32.3	62.7	75.8	13.1	

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

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2437MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takeshi Choda
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11g Tx 2437MHz 24Mbps ANT1		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	46.804	QP	39.7	11.4	7.4	32.2	26.3	40.0	13.7	
Hori	62.497	QP	49.1	7.2	7.6	32.2	31.7	40.0	8.3	
Hori	215.999	QP	44.0	16.9	9.3	32.0	38.2	43.5	5.3	
Hori	576.005	QP	38.1	19.5	11.7	32.0	37.3	46.0	8.7	
Hori	749.960	QP	35.1	20.9	12.6	31.7	36.9	46.0	9.1	
Hori	874.953	QP	31.3	21.9	13.2	31.1	35.3	46.0	10.7	
Hori	1943.767	PK	65.3	26.8	2.5	32.7	61.9	73.9	12.0	
Hori	4874.000	PK	42.4	31.8	4.6	31.4	47.4	73.9	26.5	
Hori	7311.000	PK	41.9	36.1	5.6	31.9	51.7	73.9	22.2	
Hori	9748.000	PK	42.3	38.6	6.6	32.7	54.8	73.9	19.1	
Hori	24370.000	PK	46.7	38.5	-1.5	30.3	53.4	73.9	20.5	
Hori	1943.767	AV	35.4	26.8	2.5	32.7	32.0	53.9	21.9	
Hori	4874.000	AV	28.7	31.8	4.6	31.4	33.7	53.9	20.2	
Hori	7311.000	AV	30.0	36.1	5.6	31.9	39.8	53.9	14.1	
Hori	9748.000	AV	30.3	38.6	6.6	32.7	42.8	53.9	11.1	
Hori	24370.000	AV	35.5	38.5	-1.5	30.3	42.2	53.9	11.7	
Vert	46.394	QP	49.2	11.5	7.4	32.2	35.9	40.0	4.1	
Vert	65.773	QP	48.6	6.7	7.7	32.2	30.8	40.0	9.2	
Vert	215.999	QP	33.4	16.9	9.3	32.0	27.6	43.5	15.9	
Vert	576.004	QP	33.7	19.5	11.7	32.0	32.9	46.0	13.1	
Vert	749.960	QP	37.4	20.9	12.6	31.7	39.2	46.0	6.8	
Vert	874.953	QP	32.3	21.9	13.2	31.1	36.3	46.0	9.7	
Vert	1943.767	PK	67.4	26.8	2.5	32.7	64.0	73.9	9.9	
Vert	4874.000	PK	40.9	31.8	4.6	31.4	45.9	73.9	28.0	
Vert	7311.000	PK	41.6	36.1	5.6	31.9	51.4	73.9	22.5	
Vert	9748.000	PK	42.1	38.6	6.6	32.7	54.6	73.9	19.3	
Vert	24370.000	PK	47.0	38.5	-1.5	30.3	53.7	73.9	20.2	
Vert	1943.767	AV	35.0	26.8	2.5	32.7	31.6	53.9	22.3	
Vert	4874.000	AV	28.7	31.8	4.6	31.4	33.7	53.9	20.2	
Vert	7311.000	AV	30.3	36.1	5.6	31.9	40.1	53.9	13.8	
Vert	9748.000	AV	30.7	38.6	6.6	32.7	43.2	53.9	10.7	
Vert	24370.000	AV	35.4	38.5	-1.5	30.3	42.1	53.9	11.8	

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

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

*The 10th harmonic was not seen so the result was its base noise level.

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

Radiated Spurious Emission
(Power Supply: SONY)
11g, Tx 2462MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	30EE0055-H0-01		
Date	12/08/2009	12/09/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 36%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada	Takeshi Choda
	(1-10GHz)	(10-26.5GHz)	(30-1000MHz)
Mode	11g Tx 2462MHz 24Mbps ANT1		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.234	QP	40.8	11.2	7.4	32.2	27.2	40.0	12.8	
Hori	62.497	QP	49.0	7.2	7.6	32.2	31.6	40.0	8.4	
Hori	215.999	QP	44.1	16.9	9.3	32.0	38.3	43.5	5.2	
Hori	576.004	QP	38.0	19.5	11.7	32.0	37.2	46.0	8.8	
Hori	749.960	QP	36.0	20.9	12.6	31.7	37.8	46.0	8.2	
Hori	874.953	QP	31.5	21.9	13.2	31.1	35.5	46.0	10.5	
Hori	1944.538	PK	64.1	26.8	2.5	32.7	60.7	73.9	13.2	
Hori	2483.500	PK	59.5	27.3	2.8	32.2	57.4	73.9	16.5	
Hori	4924.000	PK	41.0	31.8	4.6	31.4	46.0	73.9	27.9	
Hori	7386.000	PK	42.0	36.2	5.6	32.0	51.8	73.9	22.1	
Hori	9848.000	PK	42.4	38.8	6.7	32.7	55.2	73.9	18.7	
Hori	24620.000	PK	46.3	38.8	-1.4	30.1	53.6	73.9	20.3	
Hori	1944.538	AV	35.6	26.8	2.5	32.7	32.2	53.9	21.7	
Hori	2483.500	AV	43.3	27.3	2.8	32.2	41.2	53.9	12.7	
Hori	4924.000	AV	28.8	31.8	4.6	31.4	33.8	53.9	20.1	
Hori	7386.000	AV	30.1	36.2	5.6	32.0	39.9	53.9	14.0	
Hori	9848.000	AV	30.7	38.8	6.7	32.7	43.5	53.9	10.4	
Hori	24620.000	AV	33.5	38.8	-1.4	30.1	40.8	53.9	13.1	
Vert	46.704	QP	49.2	11.4	7.4	32.2	35.8	40.0	4.2	
Vert	65.793	QP	48.2	6.7	7.7	32.2	30.4	40.0	9.6	
Vert	215.999	QP	34.9	16.9	9.3	32.0	29.1	43.5	14.4	
Vert	576.004	QP	34.2	19.5	11.7	32.0	33.4	46.0	12.6	
Vert	749.960	QP	37.3	20.9	12.6	31.7	39.1	46.0	6.9	
Vert	874.953	QP	31.8	21.9	13.2	31.1	35.8	46.0	10.2	
Vert	1944.538	PK	68.2	26.8	2.5	32.7	64.8	73.9	9.1	
Vert	2483.500	PK	59.7	27.3	2.8	32.2	57.6	73.9	16.3	
Vert	4924.000	PK	40.9	31.8	4.6	31.4	45.9	73.9	28.0	
Vert	7386.000	PK	42.3	36.2	5.6	32.0	52.1	73.9	21.8	
Vert	9848.000	PK	41.8	38.8	6.7	32.7	54.6	73.9	19.3	
Vert	24620.000	PK	46.5	38.8	-1.4	30.1	53.8	73.9	20.1	
Vert	1944.538	AV	35.4	26.8	2.5	32.7	32.0	53.9	21.9	
Vert	2483.500	AV	43.9	27.3	2.8	32.2	41.8	53.9	12.1	
Vert	4924.000	AV	28.5	31.8	4.6	31.4	33.5	53.9	20.4	
Vert	7386.000	AV	30.2	36.2	5.6	32.0	40.0	53.9	13.9	
Vert	9848.000	AV	30.4	38.8	6.7	32.7	43.2	53.9	10.7	
Vert	24620.000	AV	33.6	38.8	-1.4	30.1	40.9	53.9	13.0	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

Radiated Spurious Emission
(Power Supply: SONY)
11b/g, Rx 2437MHz, ANT0

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber	
Report No.	30EE0055-HO-01	
Date	12/08/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takumi Shimada
	(1-10GHz)	(30-1000MHz)
Mode	11b/g Rx 2437MHz ANT0	

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.453	QP	39.0	11.2	7.4	32.2	25.4	40.0	14.6	
Hori	62.493	QP	48.8	7.2	7.6	32.2	31.4	40.0	8.6	
Hori	215.999	QP	44.5	16.9	9.3	32.0	38.7	43.5	4.8	
Hori	576.000	QP	38.6	19.5	11.7	32.0	37.8	46.0	8.2	
Hori	749.958	QP	36.8	20.9	12.6	31.7	38.6	46.0	7.4	
Hori	874.961	QP	31.0	21.9	13.2	31.1	35.0	46.0	11.0	
Hori	1941.508	PK	64.6	26.8	2.5	32.7	61.2	73.9	12.7	
Hori	2437.000	PK	42.7	27.2	2.8	32.3	40.4	73.9	33.5	
Hori	1941.508	AV	33.4	26.8	2.5	32.7	30.0	53.9	23.9	
Hori	2437.000	AV	30.5	27.2	2.8	32.3	28.2	53.9	25.7	
Vert	46.208	QP	49.4	11.6	7.4	32.2	36.2	40.0	3.8	
Vert	65.205	QP	45.4	6.8	7.7	32.2	27.7	40.0	12.3	
Vert	215.999	QP	36.8	16.9	9.3	32.0	31.0	43.5	12.5	
Vert	576.006	QP	34.2	19.5	11.7	32.0	33.4	46.0	12.6	
Vert	749.957	QP	38.0	20.9	12.6	31.7	39.8	46.0	6.2	
Vert	874.965	QP	33.0	21.9	13.2	31.1	37.0	46.0	9.0	
Vert	1941.467	PK	65.8	26.8	2.5	32.7	62.4	73.9	11.5	
Vert	2437.000	PK	42.6	27.2	2.8	32.3	40.3	73.9	33.6	
Vert	1941.467	AV	33.8	26.8	2.5	32.7	30.4	53.9	23.5	
Vert	2437.000	AV	29.9	27.2	2.8	32.3	27.6	53.9	26.3	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission
(Power Supply: SONY)
11b/g, Rx 2437MHz, ANT1

Test place	Head Office EMC Lab. No.3 Semi Anechoic Chamber	
Report No.	30EE0055-HO-01	
Date	12/08/2009	12/11/2009
Temperature/ Humidity	23 deg.C./ 33%	22 deg.C./ 49%
Engineer	Takumi Shimada	Takeshi Choda
	(1-10GHz)	(30-1000MHz)
Mode	11b/g Rx 2437MHz ANT1	

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	47.453	QP	40.6	11.2	7.4	32.2	27.0	40.0	13.0	
Hori	62.497	QP	49.1	7.2	7.6	32.2	31.7	40.0	8.3	
Hori	215.999	QP	44.0	16.9	9.3	32.0	38.2	43.5	5.3	
Hori	576.005	QP	37.9	19.5	11.7	32.0	37.1	46.0	8.9	
Hori	749.960	QP	37.4	20.9	12.6	31.7	39.2	46.0	6.8	
Hori	874.953	QP	31.2	21.9	13.2	31.1	35.2	46.0	10.8	
Hori	1941.508	PK	65.9	26.8	2.5	32.7	62.5	73.9	11.5	
Hori	2437.000	PK	42.7	27.2	2.8	32.3	40.4	73.9	33.5	
Hori	1941.508	AV	33.5	26.8	2.5	32.7	30.1	53.9	23.8	
Hori	2437.000	AV	30.7	27.2	2.8	32.3	28.4	53.9	25.5	
Vert	46.893	QP	49.4	11.4	7.4	32.2	36.0	40.0	4.0	
Vert	65.635	QP	47.5	6.8	7.7	32.2	29.8	40.0	10.2	
Vert	215.999	QP	34.4	16.9	9.3	32.0	28.6	43.5	14.9	
Vert	576.004	QP	33.7	19.5	11.7	32.0	32.9	46.0	13.1	
Vert	749.960	QP	37.8	20.9	12.6	31.7	39.6	46.0	6.4	
Vert	874.953	QP	32.0	21.9	13.2	31.1	36.0	46.0	10.0	
Vert	1941.467	PK	66.1	26.8	2.5	32.7	62.7	73.9	11.2	
Vert	2437.000	PK	43.3	27.2	2.8	32.3	41.0	73.9	32.9	
Vert	1941.467	AV	34.4	26.8	2.5	32.7	31.0	53.9	22.9	
Vert	2437.000	AV	30.2	27.2	2.8	32.3	27.9	53.9	26.0	

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).

*The 10th harmonic was not seen so the result was its base noise level.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission
Reference Data
(Power Supply: DELTA)
11b, Tx 2437MHz, ANT0

Test place Head Office EMC Lab. No.4 Semi Anechoic Chamber
Report No. 30EE0055-H0-01
Date 12/26/2009
Temperature/ Humidity 23 deg.C./ 38%
Engineer Takumi Shimada

Mode 11b Tx 2437MHz 11Mbps ANT0

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	48.006	QP	35.3	12.0	7.5	32.0	22.8	40.0	17.2	
Hori	75.428	QP	46.3	7.0	7.9	32.0	29.2	40.0	10.8	
Hori	215.999	QP	42.0	17.6	9.3	31.9	37.0	43.5	6.5	
Hori	576.004	QP	35.8	20.1	11.6	32.1	35.4	46.0	10.6	
Hori	749.969	QP	34.9	23.0	12.5	31.9	38.5	46.0	7.5	
Hori	874.976	QP	32.4	23.8	13.1	31.3	38.0	46.0	8.0	
Hori	1941.217	PK	64.4	25.9	2.7	33.0	60.0	73.9	13.9	
Hori	7311.000	PK	42.4	36.1	5.8	32.6	51.7	73.9	22.3	
Hori	9748.000	PK	42.1	38.1	7.0	33.4	53.8	73.9	20.1	
Hori	24370.000	PK	46.6	38.3	-1.1	32.3	51.5	73.9	22.4	
Hori	1941.217	AV	34.1	25.9	2.7	33.0	29.7	53.9	24.2	
Hori	4874.000	AV	29.6	31.0	5.4	31.9	34.1	53.9	19.8	
Hori	7311.000	AV	30.1	36.1	5.8	32.6	39.4	53.9	14.5	
Hori	9748.000	AV	30.1	38.1	7.0	33.4	41.8	53.9	12.1	
Hori	24370.000	AV	35.3	38.3	-1.1	32.3	40.2	53.9	13.7	
Vert	46.723	QP	45.0	12.5	7.5	32.1	32.9	40.0	7.1	
Vert	75.542	QP	41.2	7.0	7.9	32.0	24.1	40.0	15.9	
Vert	215.999	QP	34.6	17.6	9.3	31.9	29.6	43.5	13.9	
Vert	576.011	QP	33.3	20.1	11.6	32.1	32.9	46.0	13.1	
Vert	749.965	QP	33.7	23.0	12.5	31.9	37.3	46.0	8.7	
Vert	874.973	QP	32.2	23.8	13.1	31.3	37.8	46.0	8.2	
Vert	1947.283	PK	66.9	25.9	2.7	33.0	62.5	73.9	11.4	
Vert	4874.000	PK	42.2	31.0	5.4	31.9	46.7	73.9	27.2	
Vert	9748.000	PK	42.6	38.1	7.0	33.4	54.3	73.9	19.6	
Vert	24370.000	PK	46.5	38.3	-1.1	32.3	51.4	73.9	22.5	
Vert	1947.283	AV	36.2	25.9	2.7	33.0	31.8	53.9	22.1	
Vert	4874.000	AV	29.1	31.0	5.4	31.9	33.6	53.9	20.3	
Vert	7311.000	AV	30.1	36.1	5.8	32.6	39.4	53.9	14.5	
Vert	9748.000	AV	30.1	38.1	7.0	33.4	41.8	53.9	12.1	
Vert	24370.000	AV	35.5	38.3	-1.1	32.3	40.4	53.9	13.5	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amprifier)
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).
*The 10th harmonic was not seen so the result was its base noise level.
Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

Radiated Spurious Emission
Reference Data
(Power Supply: DELTA)
11b/g, Rx 2437MHz, ANT0

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 30EE0055-H0-01
Date 01/15/2010
Temperature/ Humidity 23 deg.C./ 38%
Engineer Takumi Shimada

Mode 11b/g Rx 2437MHz ANT0

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	48.010	QP	39.4	11.0	7.4	32.2	25.6	40.0	14.4	
Hori	79.213	QP	47.7	6.1	7.9	32.1	29.6	40.0	10.4	
Hori	215.999	QP	43.9	16.9	9.3	32.0	38.1	43.5	5.4	
Hori	576.006	QP	39.3	19.5	11.7	32.0	38.5	46.0	7.5	
Hori	749.992	QP	34.5	20.9	12.6	31.7	36.3	46.0	9.7	
Hori	874.990	QP	29.6	21.9	13.2	31.1	33.6	46.0	12.4	
Hori	1941.583	PK	65.1	26.8	2.5	32.7	61.7	73.9	12.2	
Hori	2437.000	PK	43.0	27.2	2.8	32.3	40.7	73.9	33.3	
Hori	3188.456	PK	51.8	28.4	3.1	31.9	51.4	73.9	22.5	
Hori	1941.583	AV	33.3	26.8	2.5	32.7	29.9	53.9	24.0	
Hori	2437.000	AV	31.9	27.2	2.8	32.3	29.6	53.9	24.3	
Hori	3188.456	AV	34.9	28.4	3.1	31.9	34.5	53.9	19.4	
Vert	44.784	QP	43.9	12.1	7.4	32.2	31.2	40.0	8.8	
Vert	78.490	QP	42.0	6.1	7.9	32.1	23.9	40.0	16.1	
Vert	215.999	QP	34.2	16.9	9.3	32.0	28.4	43.5	15.1	
Vert	576.005	QP	35.9	19.5	11.7	32.0	35.1	46.0	10.9	
Vert	749.992	QP	34.8	20.9	12.6	31.7	36.6	46.0	9.4	
Vert	874.990	QP	28.1	21.9	13.2	31.1	32.1	46.0	13.9	
Vert	1945.187	PK	66.1	26.8	2.5	32.7	62.7	73.9	11.2	
Vert	2437.000	PK	43.7	27.2	2.8	32.3	41.4	73.9	32.5	
Vert	3186.412	PK	54.1	28.4	3.1	31.9	53.7	73.9	20.2	
Vert	1945.187	AV	34.6	26.8	2.5	32.7	31.2	53.9	22.8	
Vert	2437.000	AV	31.3	27.2	2.8	32.3	29.0	53.9	24.9	
Vert	3186.412	AV	36.6	28.4	3.1	31.9	36.2	53.9	17.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amprifier)
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).
*The 10th harmonic was not seen so the result was its base noise level.
Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

APPENDIX 3: Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2009/02/02 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	-	RE	2009/02/06 * 12
MJM-06	Measure	PROMART	SEN1955	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE/AT	2009/08/25 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2009/04/30 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	174410(1m) / 284655(5m)	RE	2009/01/07 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2009/03/19 * 12
MPM-08	Power Meter	Anritsu	ML2495A	6K00003338	AT	2009/09/09 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	011737	AT	2009/09/09 * 12
MAT-20	Attenuator(10dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	-	AT	2009/01/16 * 12
MHF-19	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCA	602	RE	2008/12/16 * 12
MCC-78	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278993/4	RE	2008/12/17 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170306	RE	2009/04/30 * 12
MAEC-02	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	CE	2009/08/17 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	0003	CE	2009/02/05 * 12
MJM-05	Measure	PROMART	SEN1955	-	CE	-
MSA-03	Spectrum Analyzer	Agilent	E4448A	MY44020357	CE	2009/11/20 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	100300	CE	2009/04/14 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	8127363	CE(EUT)	2009/02/18 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	8127364	CE(AE)	2009/02/18 * 12
MTA-07	Terminator	MCL	BTRM-50	1 9944	CE	2009/02/17 * 12
MCC-13	Coaxial Cable	Fujikura	3D-2W(12m)/5D-2W(5m)/5D-2W(0.8m)/5D-2W(1m)	-	CE	2009/02/16 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	RE	2009/06/30 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1915	RE	2009/01/19 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	174	RE	2009/01/10 * 12
MCC-51	Coaxial cable	UL Japan	-	-	RE	2009/07/02 * 12
MAT-09	Attenuator(6dB)	Weinschel Corp	2	BK7973	RE	2009/11/12 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	260834	RE	2009/03/18 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	95090115	RE	2009/12/11 * 12

EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-04	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2009/02/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	-	RE/CE	2009/02/06 * 12
MJM-07	Measure	PROMART	SEN1955	-	RE/CE	-
MSA-05	Spectrum Analyzer	Advantest	R3273	160400285	RE/CE	2009/12/15 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	RE/CE	2009/10/23 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	VHA91032008	RE	2009/10/05 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	N/A	RE	2009/01/10 * 12
MCC-50	Coaxial cable	UL Japan	-	-	RE	2009/03/18 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	-	RE	2009/11/11 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	260833	RE	2009/03/18 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2009/08/10 * 12
MCC-57	Microwave Cable 1G-26.5GHz 6m	Suhner	SUCOFLEX104	246769(1m) / 292411(5m)	RE	2009/11/17 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	MY39500780	RE	2009/03/19 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170307	RE	2009/06/18 * 12
MCC-79	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278923/4	RE	2009/12/19 * 12
MHF-20	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCC	607	RE	2009/12/19 * 12
MLS-02	LISN(AMN)	Schwarzbeck	NSLK8127	8127383	CE(EUT)	2009/06/22 * 12
MLS-03	LISN(AMN)	Schwarzbeck	NSLK8127	8127384	CE(AE)	2009/07/16 * 12
MTA-06	Terminator	MCL	BTRM-50	1 9951	CE	2009/02/17 * 12
MCC-113	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W(10m)/SFM141(5m)/421-010(1m)/sucoform141-PE(1m)/RFM-E121(Switcher)	-/04178	CE	2009/07/01 * 12

The expiration date of the calibration is the end of the expired month.
All equipment is calibrated with traceable calibrations. Each calibration 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
RE: Radiated Emission
AT: Antenna Terminal Conducted test