APPENDIX 2: Data of EMI test

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

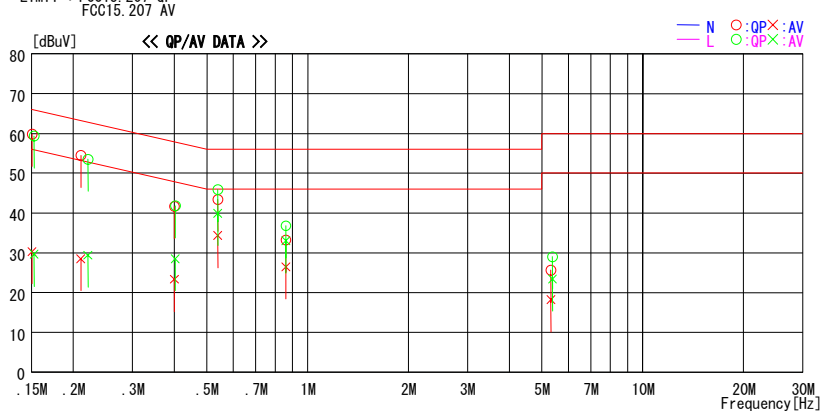
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company : Sony Corporation
Kind of EUT : Wireless Link
Model No. : DMX-WL1T (Transmitter Unit)
Serial No. : 64

Report No. : 28KE0141-HO
Power : AC120V / 60Hz
Temp./Humi. : 22deg.C / 68%
Engineer : Kazufumi Nakai

Mode / Remarks: Zigbee Tx 2405MHz

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]	
0.15055	59.7	30.2	0.1	59.8	30.3	66.0	56.0	6.2	25.7	N
0.21061	54.2	28.2	0.3	54.5	28.5	63.2	53.2	8.7	24.7	N
0.40051	41.3	23.0	0.3	41.6	23.3	57.8	47.8	16.2	24.5	N
0.53895	43.1	34.0	0.3	43.4	34.3	56.0	46.0	12.6	11.7	N
0.86121	32.9	26.1	0.3	33.2	26.4	56.0	46.0	22.8	19.6	N
5.31841	24.8	17.4	0.8	25.6	18.2	60.0	50.0	34.4	31.8	N
0.15265	59.2	29.5	0.1	59.3	29.6	65.9	55.9	6.6	26.3	L
0.22091	53.2	29.1	0.3	53.5	29.4	62.8	52.8	9.3	23.4	L
0.40281	41.5	28.2	0.3	41.8	28.5	57.8	47.8	16.0	19.3	L
0.53904	45.6	39.6	0.3	45.9	39.9	56.0	46.0	10.1	6.1	L
0.86175	36.5	32.7	0.3	36.8	33.0	56.0	46.0	19.2	13.0	L
5.37584	28.2	22.6	0.8	29.0	23.4	60.0	50.0	31.0	26.6	L

CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN+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

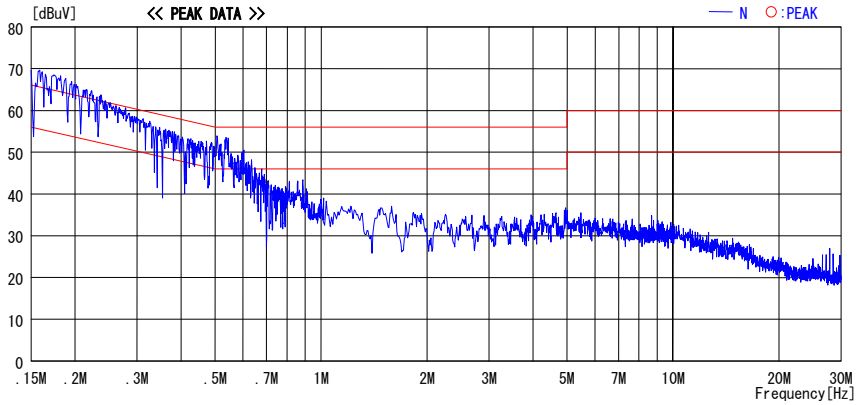
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company	: Sony Corporation	Report No.	: 28KE0141-HO
Kind of EUT	: Wireless Link	Power	: AC120V / 60Hz
Model No.	: DMX-WL1T (Transmitter Unit)	Temp./Humi.	: 22deg.C / 68%
Serial No.	: 64	Engineer	: Kazufumi Nakai

Mode / Remarks : Zigbee Tx 2405MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



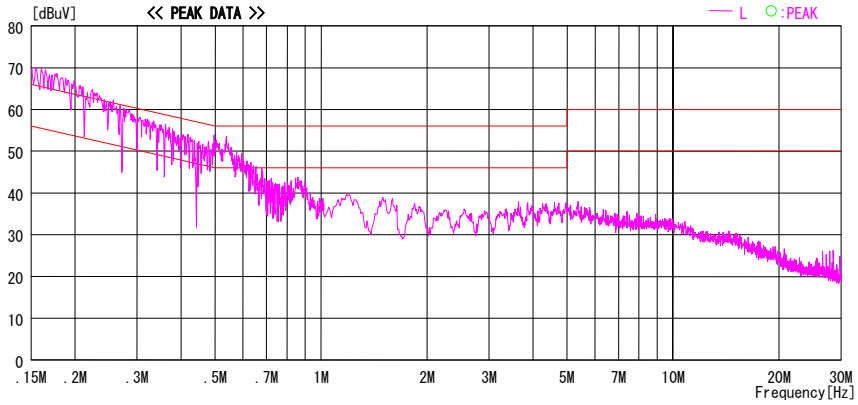


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

Conducted Emission

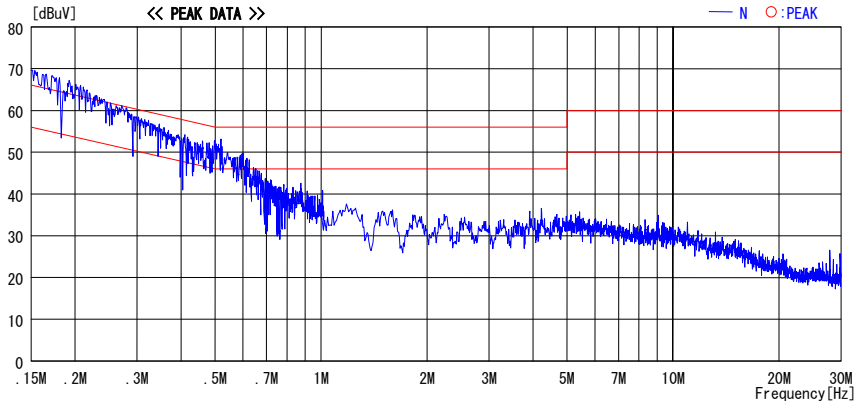
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company	: Sony Corporation	Report No.	: 28KE0141-HO
Kind of EUT	: Wireless Link	Power	: AC120V / 60Hz
Model No.	: DMX-WL1T (Transmitter Unit)	Temp./Humi.	: 22deg.C / 68%
Serial No.	: 64	Engineer	: Kazufumi Nakai

Mode / Remarks : Zigbee Tx 2440MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



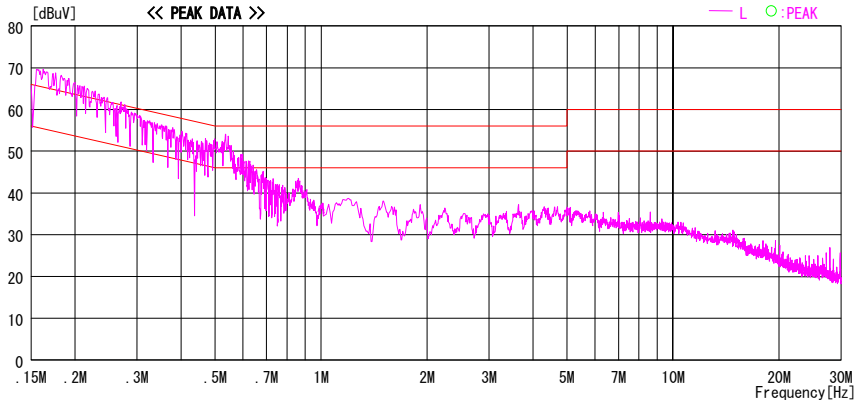


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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Conducted Emission

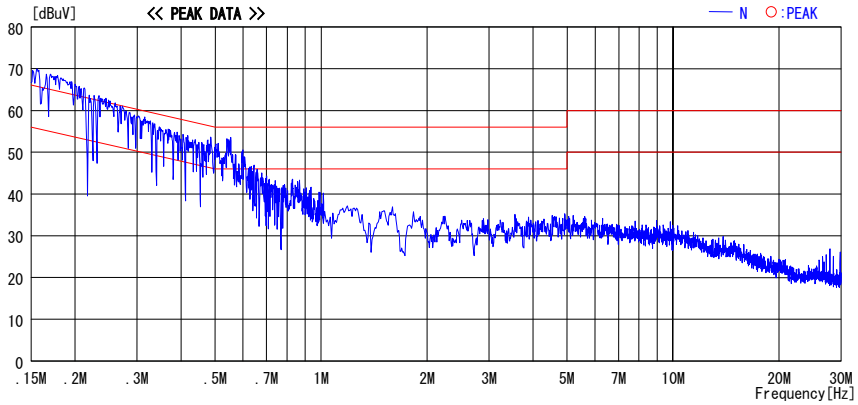
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company	: Sony Corporation	Report No.	: 28KE0141-HO
Kind of EUT	: Wireless Link	Power	: AC120V / 60Hz
Model No.	: DMX-WL1T (Transmitter Unit)	Temp./Humi.	: 22deg.C / 68%
Serial No.	: 64	Engineer	: Kazufumi Nakai

Mode / Remarks : Zigbee Tx 2480MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



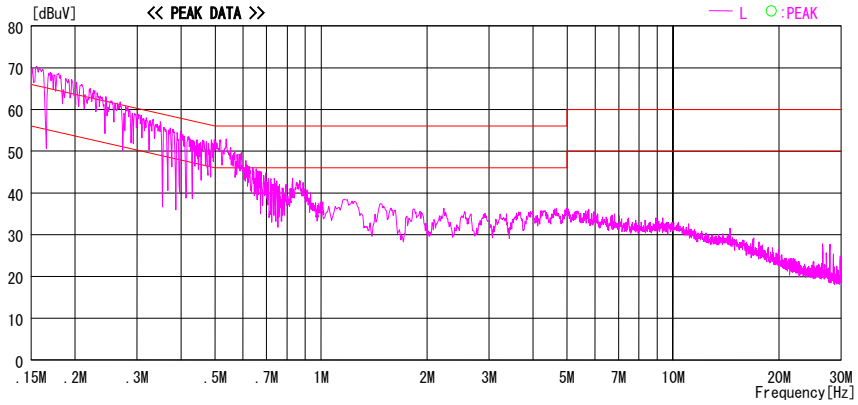


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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Conducted Emission

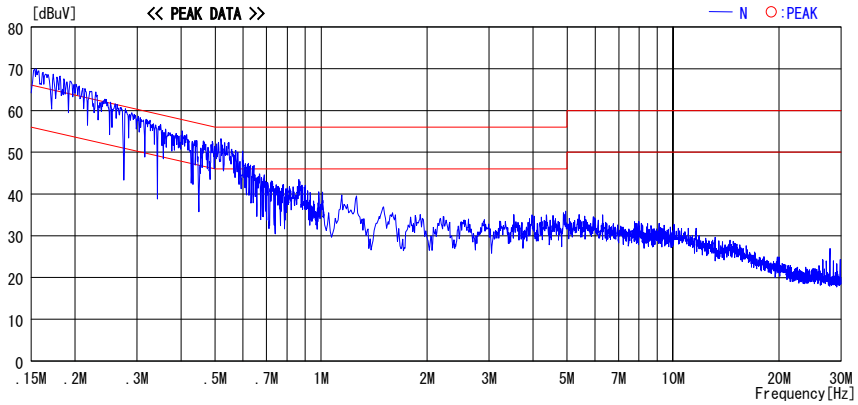
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company	: Sony Corporation	Report No.	: 28KE0141-HO
Kind of EUT	: Wireless Link	Power	: AC120V / 60Hz
Model No.	: DMX-WL1T (Transmitter Unit)	Temp./Humi.	: 22deg.C / 68%
Serial No.	: 64	Engineer	: Kazufumi Nakai

Mode / Remarks : Zigbee Rx 2440MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



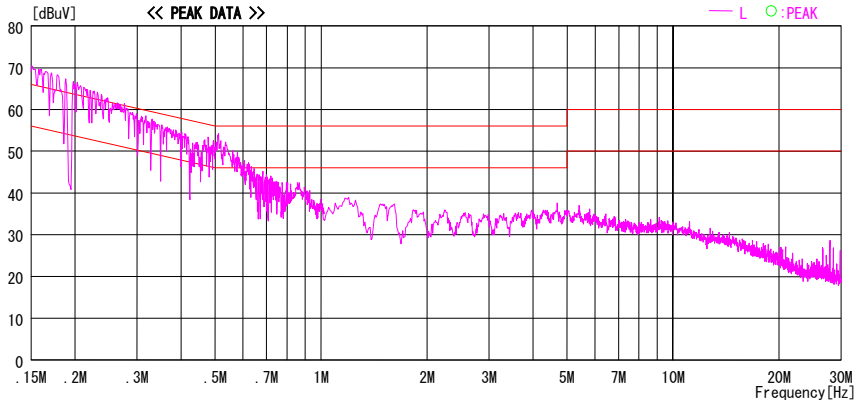


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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6dB Bandwidth

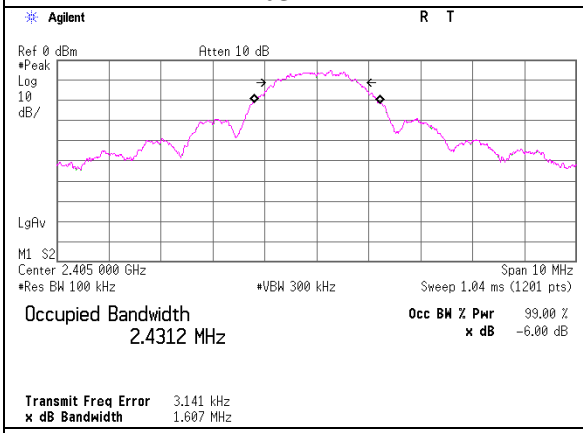
UL Japan, Inc
Head Office EMC Lab. No.6 measurement room

Company	Sony Corporation	Regulation	FCC Part15 Subpart C 15.247(a)(2) / RSS-210 A8.2(a)
Equipment	Wireless Link	Test Distance	-
Model	DMX-WL1T (Transmitter Unit)	Date	06/25/2008
S/N	11	Temperature	24deg.C.
Power	AC 120V / 60Hz	Humidity	64%
Mode	Zigbee Transmitting (Tx) mode	Engineer	Kazufumi Nakai

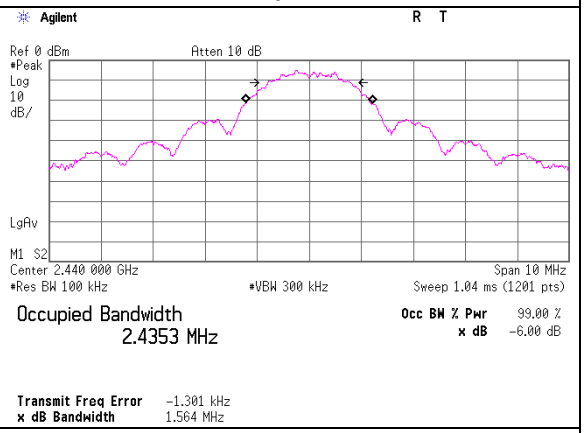
Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2405.0	1.607	>500
Mid	2440.0	1.564	>500
High	2480.0	1.522	>500

6dB Bandwidth

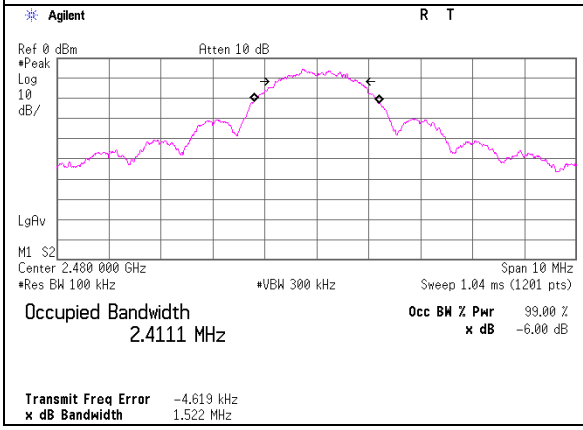
2405MHz



2440MHz



2480MHz



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Maximum Peak Output Power

UL Japan, Inc
Head Office EMC Lab. No.6 measurement room

Company	Sony Corporation	Regulation	FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
Equipment	Wireless Link	Test Distance	-
Model	DMX-WL1T (Transmitter Unit)	Date	06/24/2008
S/N	11	Temperature	22deg.C.
Power	AC 120V / 60Hz	Humidity	61%
Mode	Zigbee Transmitting (Tx) mode	Engineer	Kazufumi Nakai

Ch	Freq.	P/M(PK) Reading	Cable Loss	Atten. Loss	Result	Result	Limit	Margin
						30dBm(1W)		
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[dB]
Low	2405.0	-11.03	1.02	10.08	0.07	1.02	30.00	29.93
Mid	2440.0	-11.13	1.03	10.08	-0.02	1.00	30.00	30.02
High	2480.0	-11.51	1.04	10.08	-0.39	0.91	30.00	30.39

Radiated Spurious Emission (below 1GHz)
Tx, Ch: Low

DATA OF RADIATED EMISSION TEST

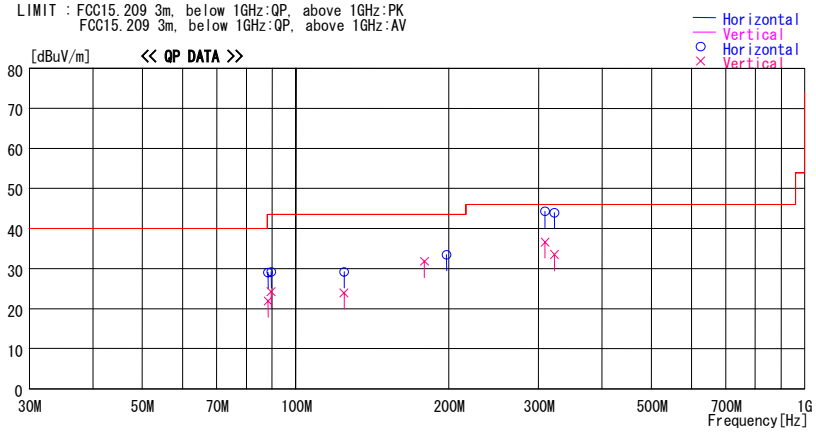
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company : Sony Corporation
Kind of EUT : Wireless Link
Model No. : DMX-WL1T (Transmitter Unit)
Serial No. : 64

Report No. : 28KE0141-HO
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C. / 68%
Engineer : Kazufumi Nakai

Mode / Remarks : Zigbee Tx 2405MHz, Worst-axis(Hor:X, Ver:Y)

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
FCC15.209 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
88.258	45.1	QP	7.9	-24.0	29.0	86	271	Hori.	43.5	14.5	
88.274	38.0	QP	7.9	-24.0	21.9	302	100	Vert.	43.5	21.6	
89.513	40.1	QP	8.1	-24.0	24.2	296	100	Vert.	43.5	19.3	
89.515	45.1	QP	8.1	-24.0	29.2	86	271	Hori.	43.5	14.3	
124.561	39.8	QP	13.0	-23.6	29.2	294	136	Hori.	43.5	14.3	
124.569	34.5	QP	13.0	-23.6	23.9	354	100	Vert.	43.5	19.6	
179.032	38.5	QP	16.5	-23.2	31.8	10	100	Vert.	43.5	11.7	
198.001	40.1	QP	16.4	-23.0	33.5	125	156	Hori.	43.5	10.0	
309.120	49.5	QP	16.8	-22.0	44.3	155	100	Hori.	46.0	1.7	
309.134	41.8	QP	16.8	-22.0	36.6	177	122	Vert.	46.0	9.4	
322.458	38.5	QP	17.0	-22.0	33.5	205	145	Vert.	46.0	12.5	
322.461	49.0	QP	17.0	-22.0	44.0	155	100	Hori.	46.0	2.0	

CHART:WITH FACTOR ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

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

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Radiated Spurious Emission (below 1GHz)
Tx, Ch: Mid

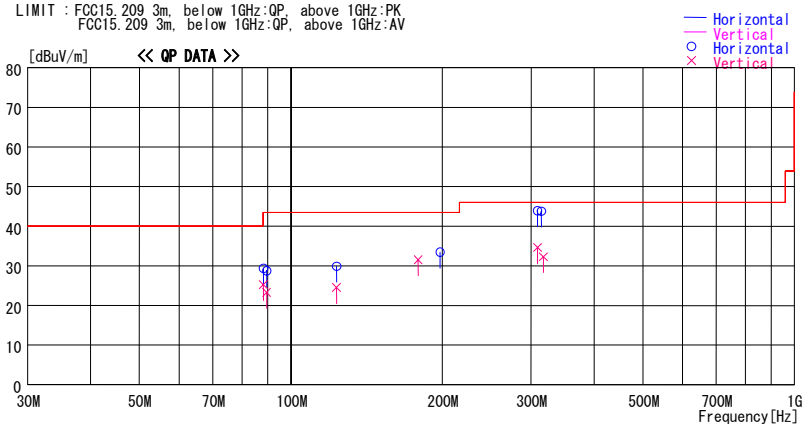
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company	: Sony Corporation	Report No.	: 28KE0141-HO
Kind of EUT	: Wireless Link	Power	: AC 120V / 60Hz
Model No.	: DMX-WL1T (Transmitter Unit)	Temp./Humi.	: 22deg.C. / 68%
Serial No.	: 64	Engineer	: Kazufumi Nakai

Mode / Remarks: Zigbee Tx 2440MHz, Worst-axis(Hor:X, Ver:Y)

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
FCC15.209 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
88.256	41.4	QP	7.9	-24.0	25.3	322	156	Vert.	43.5	18.2	
88.273	45.5	QP	7.9	-24.0	29.4	267	220	Hori.	43.5	14.1	
89.508	44.7	QP	8.1	-24.0	28.8	276	215	Hori.	43.5	14.7	
89.513	39.2	QP	8.1	-24.0	23.3	323	150	Vert.	43.5	20.2	
123.312	35.2	QP	12.9	-23.6	24.5	349	100	Vert.	43.5	19.0	
123.316	40.6	QP	12.9	-23.6	29.9	291	146	Hori.	43.5	13.6	
179.031	38.3	QP	16.5	-23.2	31.6	3	100	Vert.	43.5	11.9	
198.007	40.1	QP	16.4	-23.0	33.5	126	153	Hori.	43.5	10.0	
309.152	49.1	QP	16.8	-22.0	43.9	68	100	Hori.	46.0	2.1	
309.176	39.8	QP	16.8	-22.0	34.6	175	100	Vert.	46.0	11.4	
314.245	48.9	QP	16.9	-22.0	43.8	70	100	Hori.	46.0	2.2	
317.421	37.4	QP	16.9	-22.0	32.3	180	100	Vert.	46.0	13.7	

CHART:WITH FACTOR ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

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

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Radiated Spurious Emission (below 1GHz)
Tx, Ch: High

DATA OF RADIATED EMISSION TEST

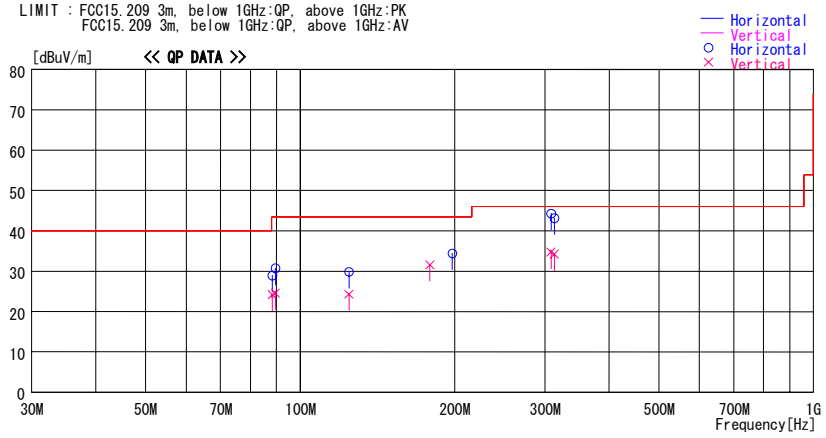
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company : Sony Corporation
Kind of EUT : Wireless Link
Model No. : DMX-WL1T (Transmitter Unit)
Serial No. : 64

Report No. : 28KE0141-HO
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C. / 68%
Engineer : Kazufumi Nakai

Mode / Remarks : Zigbee Tx 2480MHz, Worst-axis(Hor:X, Ver:Y)

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
FCC15.209 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
88.266	45.0	QP	7.9	-24.0	28.9	70	300	Hori.	43.5	14.6	
88.266	40.3	QP	7.9	-24.0	24.2	353	147	Vert.	43.5	19.3	
89.517	40.4	QP	8.1	-24.0	24.5	353	157	Vert.	43.5	19.0	
89.521	46.6	QP	8.1	-24.0	30.7	77	244	Hori.	43.5	12.8	
124.573	40.4	QP	13.0	-23.6	29.8	283	146	Hori.	43.5	13.7	
124.577	34.9	QP	13.0	-23.6	24.3	335	100	Vert.	43.5	19.2	
179.024	38.3	QP	16.5	-23.2	31.6	359	100	Vert.	43.5	11.9	
198.003	41.0	QP	16.4	-23.0	34.4	116	170	Hori.	43.5	9.1	
308.462	49.5	QP	16.8	-22.0	44.3	68	100	Hori.	46.0	1.7	
308.498	39.9	QP	16.8	-22.0	34.7	192	170	Vert.	46.0	11.3	
312.935	48.3	QP	16.9	-22.0	43.2	70	100	Hori.	46.0	2.8	
312.963	39.3	QP	16.9	-22.0	34.2	190	168	Vert.	46.0	11.8	

CHART:WITH FACTOR ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

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

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Radiated Spurious Emission (below 1GHz)
Rx, Ch: Mid

DATA OF RADIATED EMISSION TEST

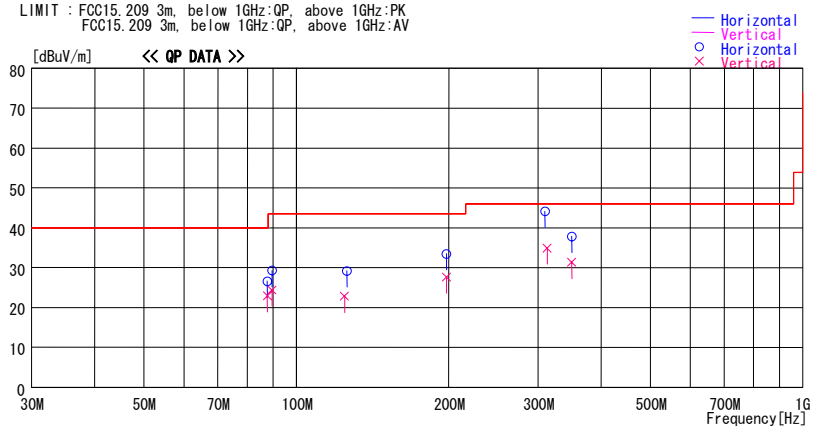
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/07/11

Company : Sony Corporation
Kind of EUT : Wireless Link
Model No. : DMX-WL1T (Transmitter Unit)
Serial No. : 64

Report No. : 28KE0141-HO
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C. / 68%
Engineer : Kazufumi Nakai

Mode / Remarks : Zigbee Rx 2440MHz, Worst-axis(Hor:X, Ver:Y)

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
FCC15.209 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
87.633	42.8	QP	7.8	-24.0	26.6	78	300	Hori.	40.0	13.4	
87.637	39.1	QP	7.8	-24.0	22.9	286	100	Vert.	40.0	17.1	
89.501	45.2	QP	8.1	-24.0	29.3	78	306	Hori.	43.5	14.2	
89.512	40.3	QP	8.1	-24.0	24.4	286	100	Vert.	43.5	19.1	
124.560	33.4	QP	13.0	-23.6	22.8	335	100	Vert.	43.5	20.7	
125.822	39.5	QP	13.2	-23.5	29.2	292	136	Hori.	43.5	14.3	
197.996	34.2	QP	16.4	-23.0	27.6	183	164	Vert.	43.5	15.9	
198.007	40.1	QP	16.4	-23.0	33.5	124	159	Hori.	43.5	10.0	
309.715	49.3	QP	16.8	-22.0	44.1	76	100	Hori.	46.0	1.9	
312.906	40.0	QP	16.9	-22.0	34.9	219	178	Vert.	46.0	11.1	
349.714	35.8	QP	17.3	-21.8	31.3	225	139	Vert.	46.0	14.7	
349.717	42.3	QP	17.3	-21.8	37.8	271	100	Hori.	46.0	8.2	

CHART:WITH FACTOR, ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

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

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Radiated Spurious Emission (above 1GHz)
Tx, Ch: Low

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	Sony Corporation	Regulation	FCC15.247(d) / RSS-210 A8.5
Equipment	Wireless Link	Test Distance	3m (1G-10GHz) / 1m (10GHz-26.5GHz)
Model	DMX-WL1T (Transmitter Unit)	Date	07/11/2008
S/N	64	Temperature	22deg.C.
Power	AC 120V / 60Hz	Humidity	68%
Mode	Zigbee Tx, 2405MHz	Engineer	Kazufumi Nakai
Position	H: X-axis, V: Y-axis		(1GHz-26.5GHz)

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT HOR	RESULT VER	Limit PK	MARGIN HOR	MARGIN VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	50.7	47.8	27.0	32.2	2.8	0.0	48.3	45.4	73.9	25.6	28.5
2	2400.00	57.7	54.5	27.0	32.2	2.8	0.0	55.3	52.1	73.9	18.6	21.8
3	4810.00	41.1	41.3	30.8	30.9	3.8	0.9	45.7	45.9	73.9	28.2	28.0
4	7215.00	41.9	42.0	35.7	32.0	4.7	0.7	51.0	51.1	73.9	22.9	22.8
5	9620.00	41.0	41.3	38.2	32.4	5.7	1.0	53.5	53.8	73.9	20.4	20.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)												
6	12025.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14430.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	16835.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19240.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	21645.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	24050.00	46.9	46.7	38.4	31.0	8.4	0.0	53.2	53.0	73.9	20.7	20.9

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT HOR	RESULT VER	Limit AV	MARGIN HOR	MARGIN VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	39.1	36.7	27.0	32.2	2.8	0.0	36.7	34.3	53.9	17.2	19.6
2	2400.00	48.7	44.8	27.0	32.2	2.8	0.0	46.3	42.4	53.9	7.6	11.5
3	4810.00	27.2	27.2	30.8	30.9	3.8	0.9	31.8	31.8	53.9	22.1	22.1
4	7215.00	28.5	28.5	35.7	32.0	4.7	0.7	37.6	37.6	53.9	16.3	16.3
5	9620.00	28.6	28.6	38.2	32.4	5.7	1.0	41.1	41.1	53.9	12.8	12.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)												
6	12025.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14430.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	16835.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19240.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	21645.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	24050.00	33.7	33.7	38.4	31.0	8.4	0.0	40.0	40.0	53.9	13.9	13.9

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

Radiated Spurious Emission (above 1GHz)
Tx, Ch: Mid

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	Sony Corporation	Regulation	FCC15.247(d) / RSS-210 A8.5
Equipment	Wireless Link	Test Distance	3m (1G-10GHz) / 1m (10GHz-26.5GHz)
Model	DMX-WL1T (Transmitter Unit)	Date	07/11/2008
S/N	64	Temperature	22deg.C.
Power	AC 120V / 60Hz	Humidity	68%
Mode	Zigbee Tx, 2440MHz	Engineer	Kazufumi Nakai
Position	H: X-axis, V: Y-axis		(1GHz-26.5GHz)

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT HOR	RESULT VER	Limit PK	MARGIN HOR	MARGIN VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4880.00	38.6	38.9	31.0	30.9	3.8	0.9	43.4	43.7	73.9	30.5	30.2
2	7320.00	39.0	38.5	35.9	32.1	4.7	0.7	48.2	47.7	73.9	25.7	26.2
3	9760.00	38.6	38.7	38.3	32.4	5.8	1.0	51.3	51.4	73.9	22.6	22.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)												
4	12200.00	NS	NS	-	-	-	-	-	-	73.9	-	-
5	14640.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	17080.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	19520.00	NS	NS	-	-	-	-	-	-	73.9	-	-
5	21960.00	NS	NS	-	-	-	-	-	-	73.9	-	-
5	24400.00	45.8	45.8	38.6	31.0	8.5	0.0	52.4	52.4	73.9	21.5	21.5

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT HOR	RESULT VER	Limit AV	MARGIN HOR	MARGIN VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4880.00	27.1	27.1	31.0	30.9	3.8	0.9	31.9	31.9	53.9	22.0	22.0
2	7320.00	28.5	28.5	35.9	32.1	4.7	0.7	37.7	37.7	53.9	16.2	16.2
3	9760.00	28.2	28.2	38.3	32.4	5.8	1.0	40.9	40.9	53.9	**13.0**	**13.0**
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)												
4	12200.00	NS	NS	-	-	-	-	-	-	53.9	-	-
5	14640.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	17080.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	19520.00	NS	NS	-	-	-	-	-	-	53.9	-	-
5	21960.00	NS	NS	-	-	-	-	-	-	53.9	-	-
5	24400.00	33.5	33.5	38.6	31.0	8.5	0.0	40.1	40.1	53.9	13.8	13.8

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

Radiated Spurious Emission (above 1GHz)
Tx, Ch: High

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	Sony Corporation	Regulation	FCC15.247(d) / RSS-210 A8.5
Equipment	Wireless Link	Test Distance	3m (1G-10GHz) / 1m (10GHz-26.5GHz)
Model	DMX-WL1T (Transmitter Unit)	Date	07/11/2008
S/N	64	Temperature	22deg.C.
Power	AC 120V / 60Hz	Humidity	68%
Mode	Zigbee Tx, 2480MHz	Engineer	Kazufumi Nakai
Position	H: X-axis, V: Y-axis		(1GHz-26.5GHz)

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT HOR	RESULT VER	Limit PK	MARGIN HOR	MARGIN VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	59.3	59.9	27.2	32.1	2.9	0.0	57.3	57.9	73.9	16.6	16.0
2	4960.00	41.3	41.2	31.2	30.8	3.8	0.9	46.4	46.3	73.9	27.5	27.6
3	7440.00	42.3	42.1	36.1	32.2	4.7	0.7	51.6	51.4	73.9	22.3	22.5
4	9920.00	41.2	41.2	38.4	32.4	5.9	1.0	54.1	54.1	73.9	19.8	19.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)												
5	12400.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14880.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17360.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19840.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	22320.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	24800.00	47.2	47.1	38.9	31.0	8.5	0.0	54.1	54.0	73.9	**19.8**	19.9

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT HOR	RESULT VER	Limit AV	MARGIN HOR	MARGIN VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	27.1	27.1	27.2	32.1	2.9	0.0	25.1	25.1	53.9	28.8	28.8
2	4960.00	28.7	28.7	31.2	30.8	3.8	0.9	33.8	33.8	53.9	20.1	20.1
3	7440.00	28.5	28.5	36.1	32.2	4.7	0.7	37.8	37.8	53.9	**16.1**	**16.1**
4	9920.00			38.4	32.4	5.9	1.0	12.9	12.9	53.9	41.0	41.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)												
5	12400.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14880.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17360.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19840.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	22320.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	24800.00	35.3	35.3	38.9	31.0	8.5	0.0	42.2	42.2	53.9	**11.7**	**11.7**

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

Radiated Spurious Emission (above 1GHz)
Rx, Ch: Mid

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	Sony Corporation	Regulation	FCC15.247(d) / RSS-210 A8.5
Equipment	Wireless Link	Test Distance	3m (1G-10GHz)
Model	DMX-WL1T (Transmitter Unit)	Date	07/11/2008
S/N	64	Temperature	22deg.C.
Power	AC 120V / 60Hz	Humidity	68%
Mode	Zigbee Rx, 2440MHz	Engineer	Kazufumi Nakai
Position	H: X-axis, V: Y-axis		(1GHz-10GHz)

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2440.00	41.4	41.2	27.1	32.1	2.9	0.0	39.3	39.1	73.9	34.6	34.8

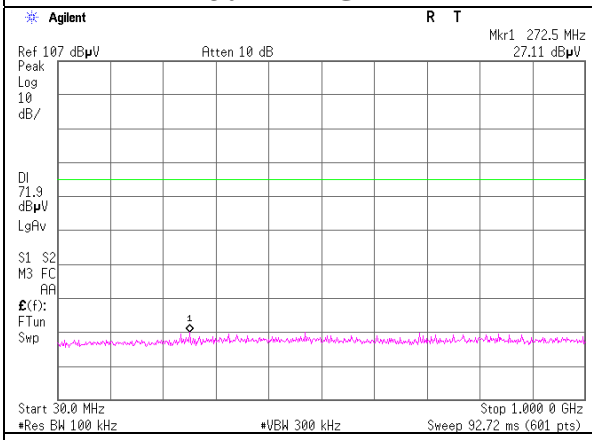
AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2440.00	28.2	28.2	27.1	32.1	2.9	0.0	26.1	26.1	53.9	27.8	27.8

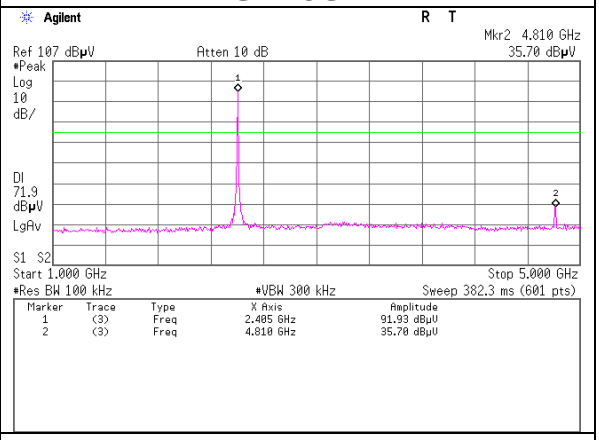
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

Conducted Spurious Emission
Tx, 2405MHz

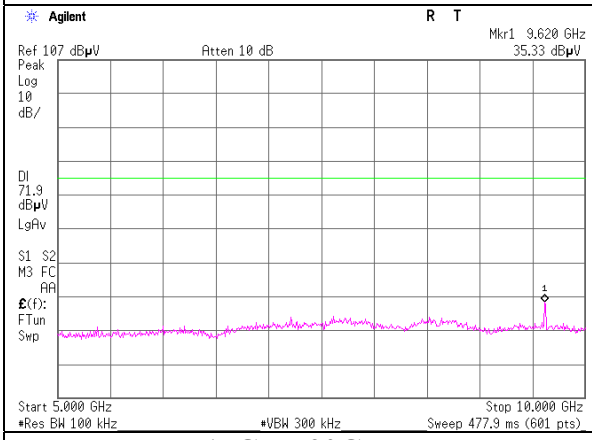
30MHz-1GHz



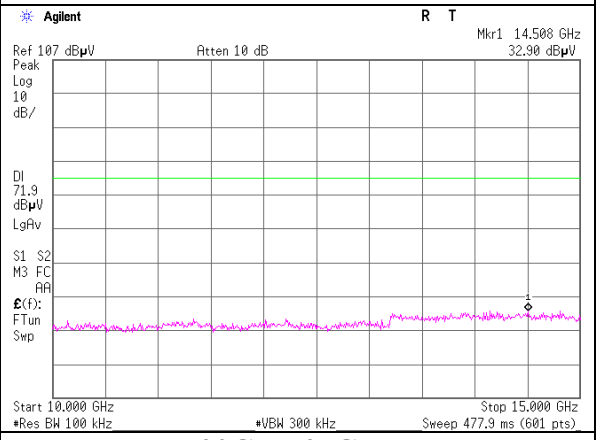
1GHz-5GHz



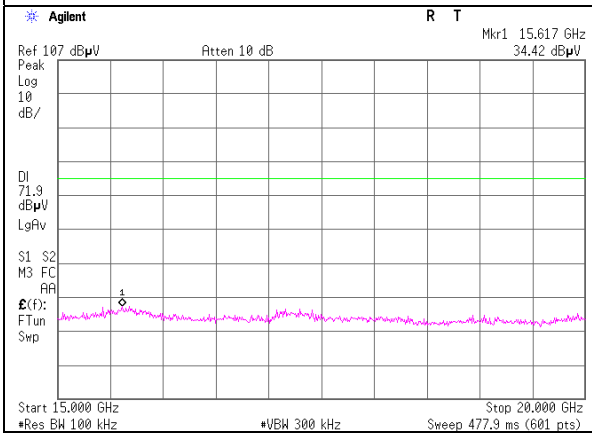
5GHz-10GHz



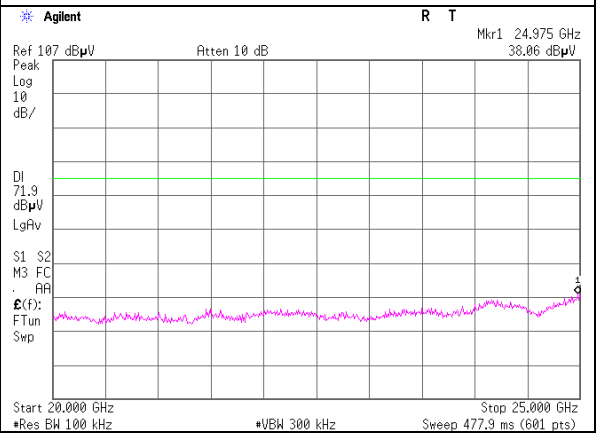
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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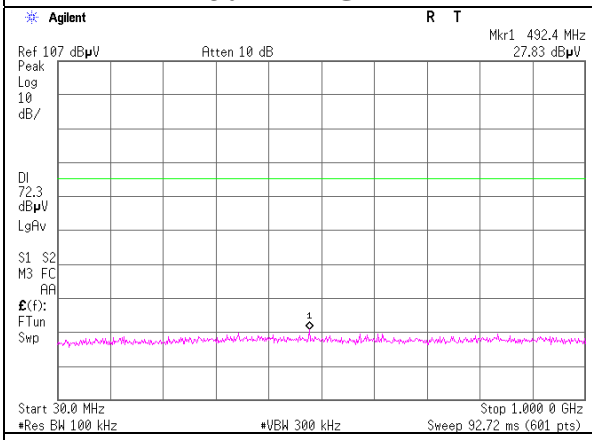
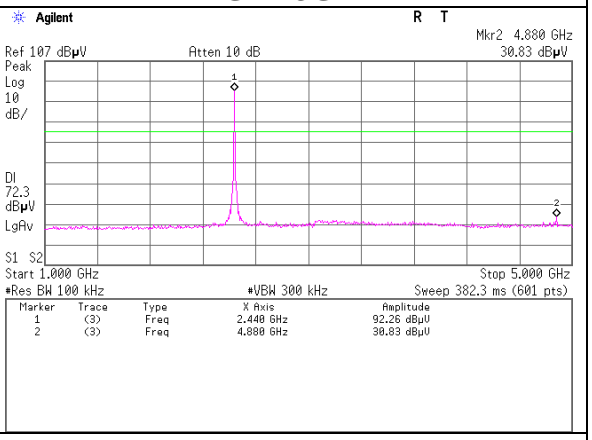
Conducted Spurious Emission
Tx, 2440MHz

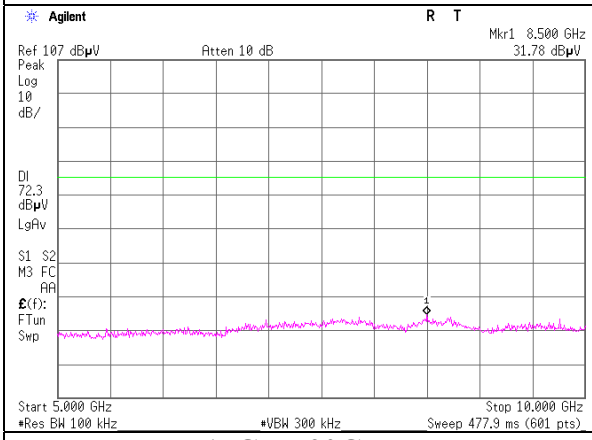
30MHz-1GHz



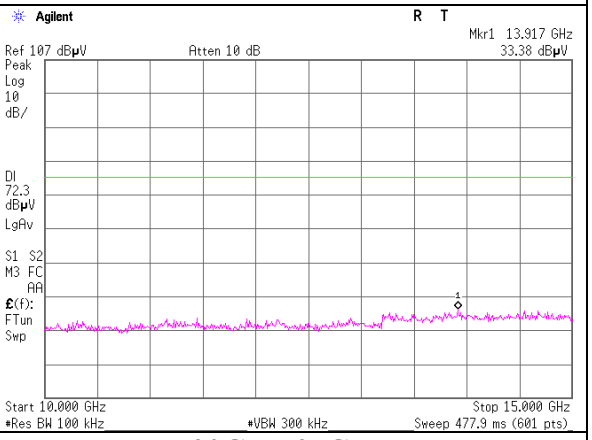
1GHz-5GHz



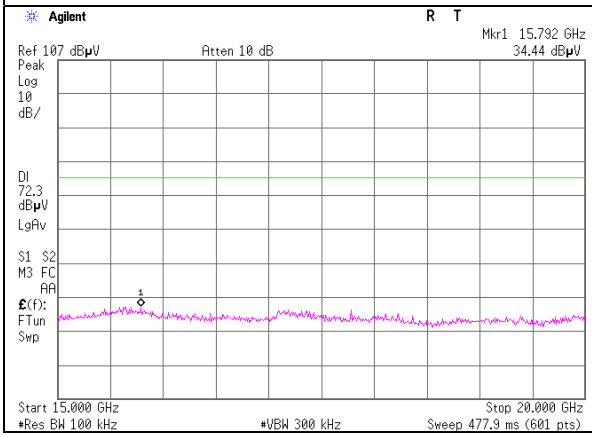
5GHz-10GHz



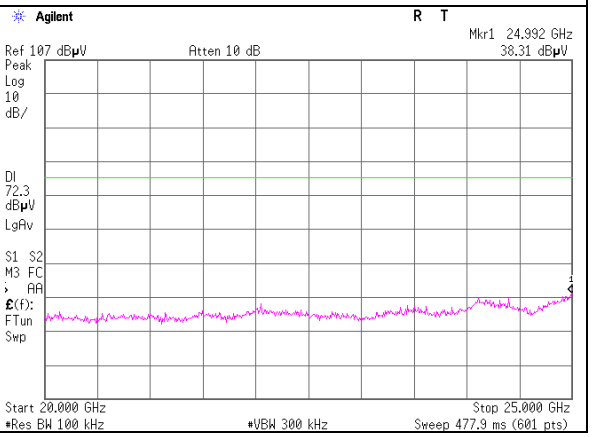
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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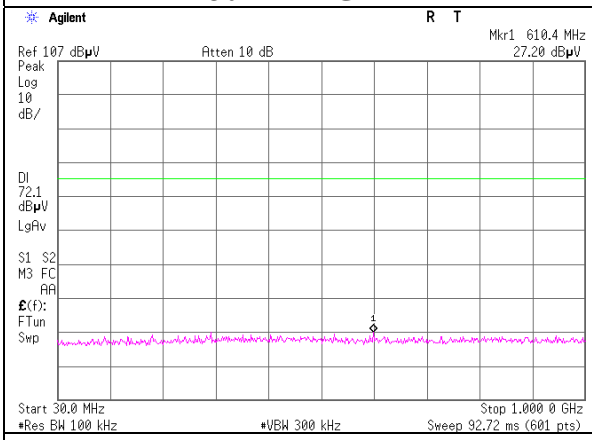
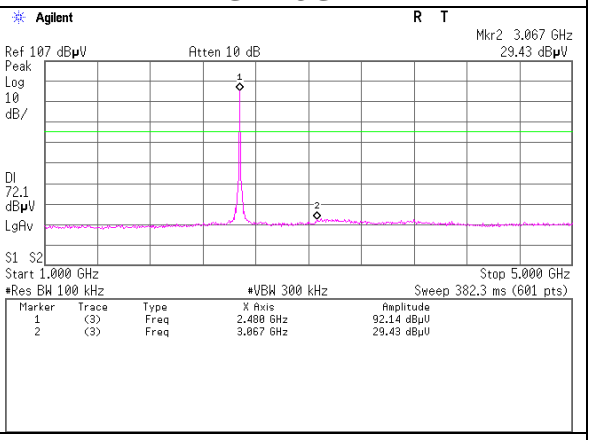
Conducted Spurious Emission
Tx, 2480MHz

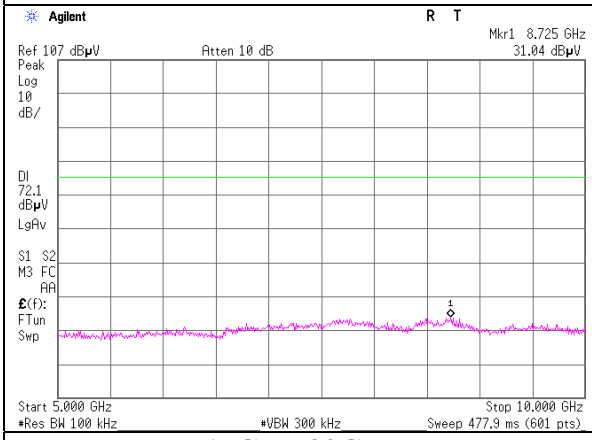
30MHz-1GHz



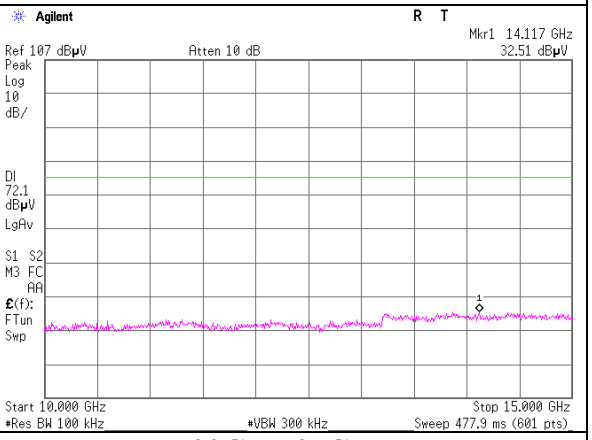
1GHz-5GHz



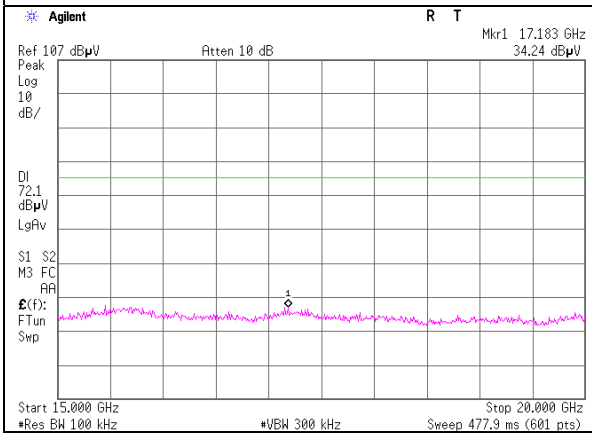
5GHz-10GHz



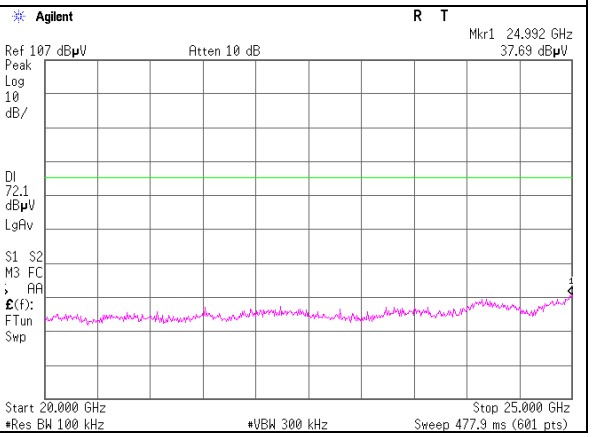
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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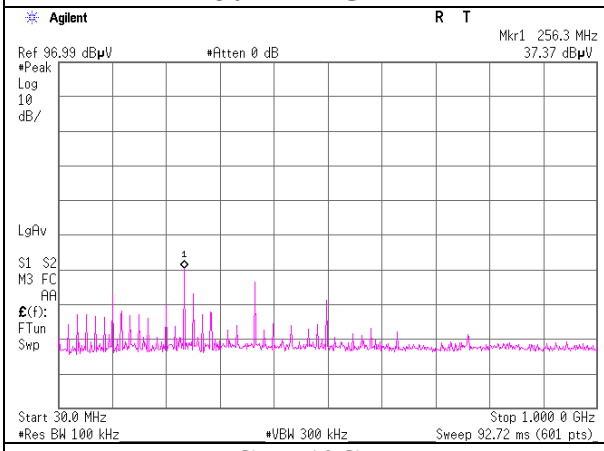
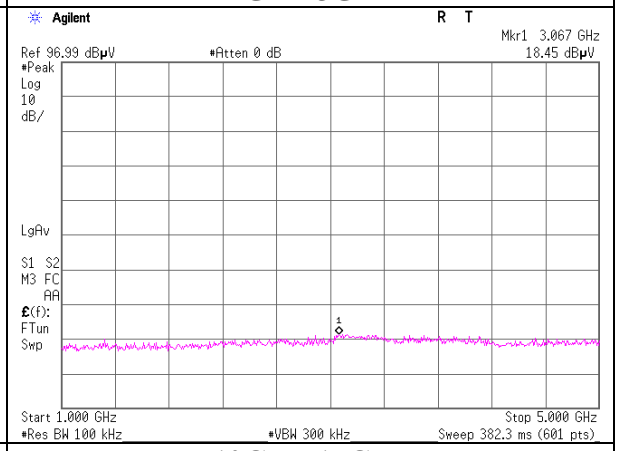
Conducted Spurious Emission
Rx, 2440MHz

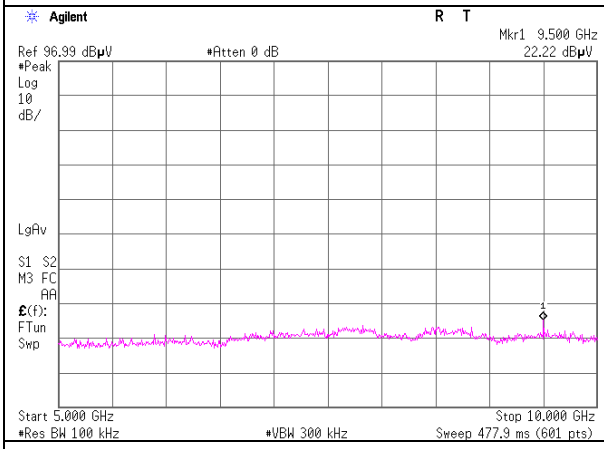
30MHz-1GHz



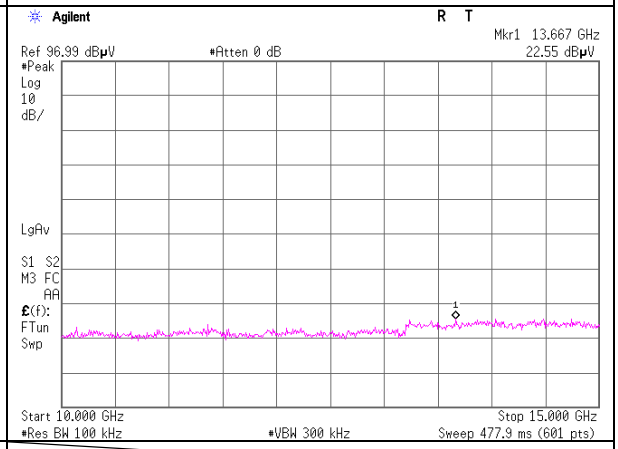
1GHz-5GHz



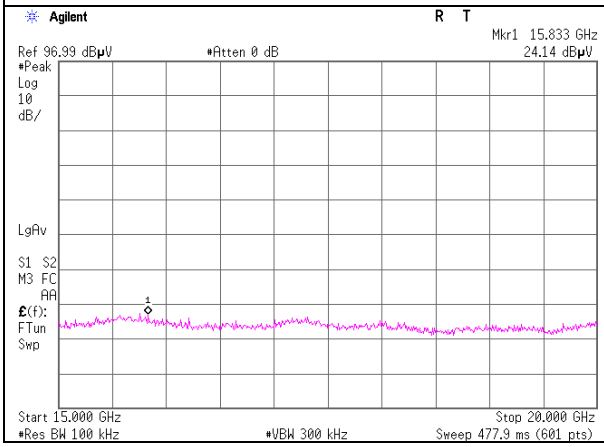
5GHz-10GHz



10GHz-15GHz



15GHz-20GHz



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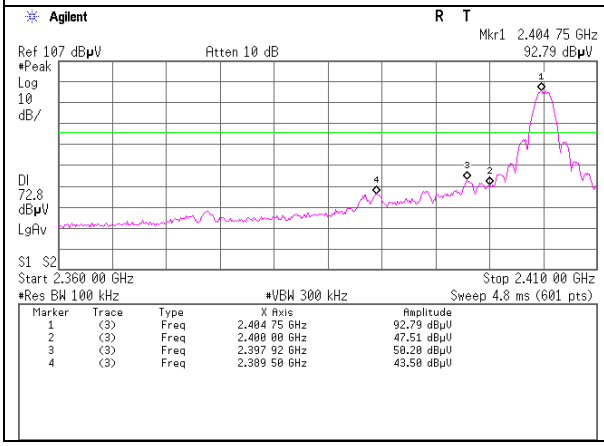
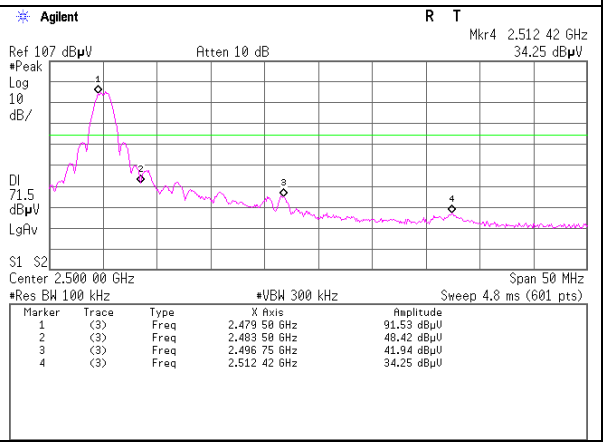
Conducted emission Band Edge compliance

2405MHx



2480MHz



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Power Density

UL Japan, Inc
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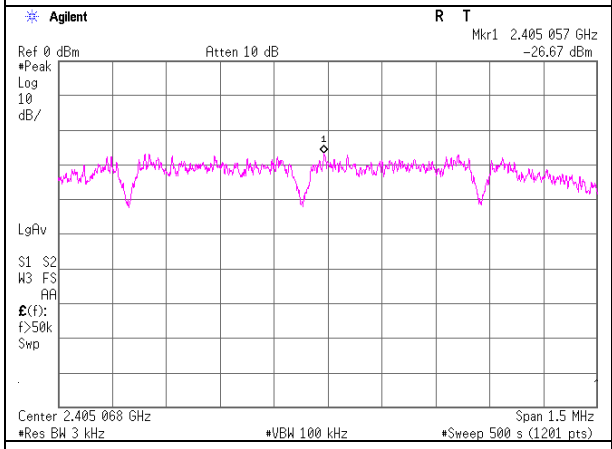
Company	Sony Corporation	Regulation	FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.2(b)
Equipment	Wireless Link	Test Distance	-
Model	DMX-WL1T	Date	07/10/2008
S/N	11	Temperature	23deg.C.
Power	AC 120V / 60Hz	Humidity	52%
Mode	Tx (Zigbee Module)	Engineer	Kazufumi Nakai

Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2405.1	-26.67	1.38	10.09	-15.20	0.03	8.00	6.30	23.20
2440.1	-26.52	1.38	10.09	-15.05	0.03	8.00	6.30	23.05
2479.6	-27.10	1.38	10.09	-15.63	0.03	8.00	6.30	23.63

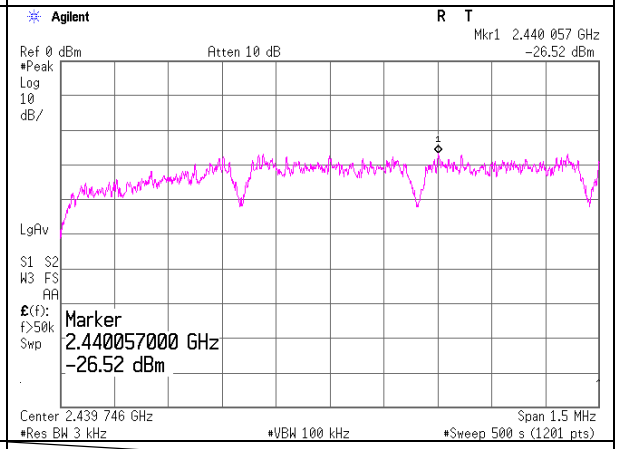
Sample Calculation:
Result [dBm] = S/A Reading + Cable Loss+ Atten. Loss
Result [mW] = 10 ^ (Result [dBm] / 10)

Power Density

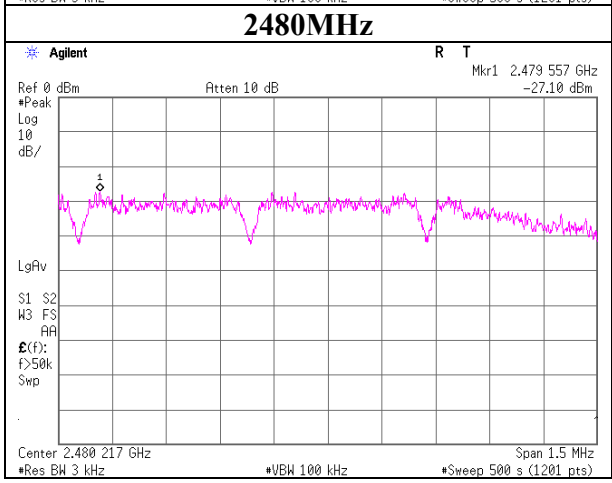
2405MHz



2440MHz



2480MHz



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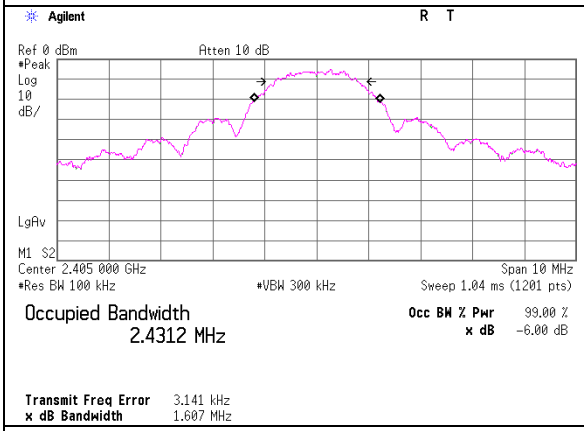
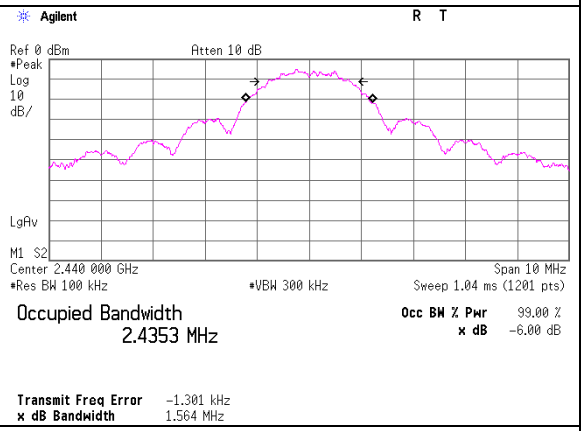
99% Occupied Bandwidth

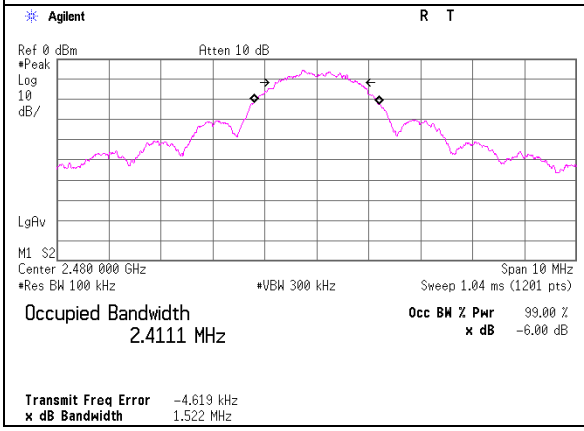
2405MHz



2440MHz



2480MHz



APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MPM-08	Power Meter	Anritsu	ML2495A	AT	2007/09/12 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	AT	2007/09/12 * 12
MAT-25	Attenuator(10dB)(above1GHz)	Agilent	8493C	AT	2008/06/25 * 12
MCC-45	Microwave Cable	Murata	MXGS83RK3000	AT	2007/07/11 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	AT	2008/01/10 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2008/05/30 * 12
MCC-66	Microwave Cable 1G-40GHz	Schner	SUCOFLEX102	AT	2008/04/04 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2008/03/05 * 12
MOS-17	Thermo-Hygrometer	Custom	CTH-180	AT	2008/01/10 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	AT	2008/06/26 * 12
MCC-06	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	AT	2008/02/05 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2007/11/12 * 12
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2008/03/27 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE/CE	2008/01/10 * 12
MJM-07	Measure	PROMART	SEN1955	RE/CE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE/CE	-
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2008/06/26 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/08/16 * 12
MCC-57	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2008/03/05 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2008/03/13 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2008/04/30 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	RE	2008/01/12 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2008/01/12 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	RE	2008/03/10 * 12
MCC-50	Coaxial cable	UL Japan	-	RE	2008/03/17 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2008/03/06 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	RE/CE	2007/09/14 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2008/02/19 * 12
MCC-113	Coaxial cable	Fujikura/Suhner/TSJ	-	CE	2008/07/03 * 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