DATA OF CONDUCTED EMISSION TEST

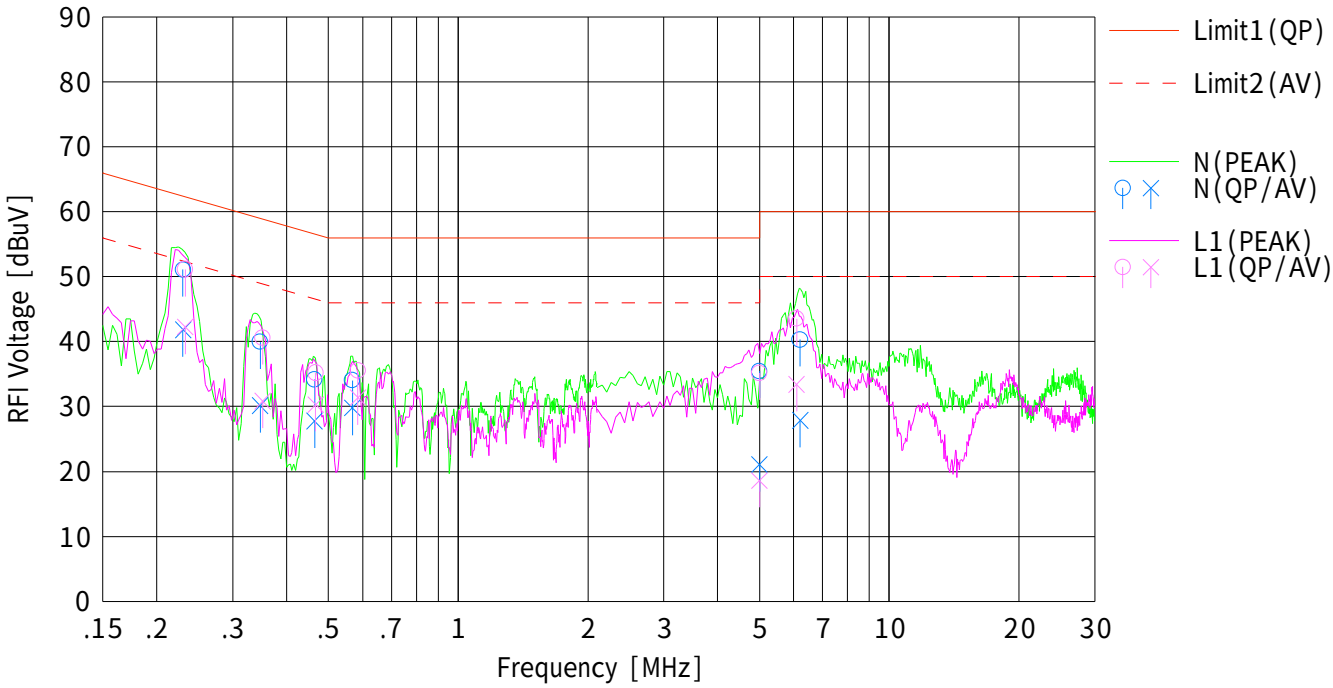
UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/09/15

Company	: Sony Corporation	Mode	: Transmitting
Kind of EUT	: TransferJet Module	Report No.	: 29KE0089-SH-01-A
Model No.	: CXN5001	Power	: AC120V / 60Hz
Serial No.	: 00001002	Temp./Humi.	: 26°C/53%

Remarks :

Limit1 : FCC 15B(15.107) ClassB QP
Limit2 : FCC 15B(15.107) ClassB AV

Engineer : Tatsuya Arai



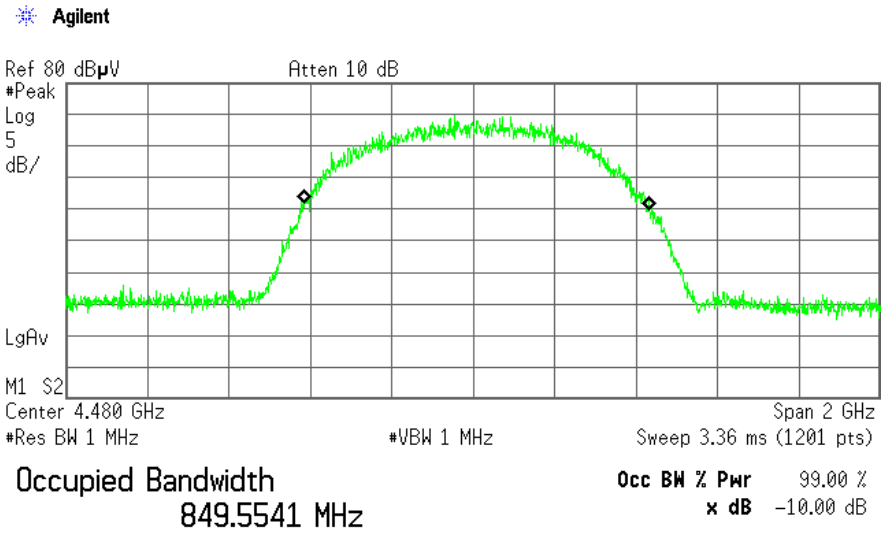
No.	Freq.	Reading		C.Fac	Results		Limit		Margin		Phase	Comment
		<QP>	<AV>		<QP>	<AV>	<QP>	<AV>	<QP>	<AV>		
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
1	0.23016	41.4	32.1	9.7	51.1	41.8	62.4	52.4	11.3	10.6	N	
2	0.34749	30.3	20.4	9.7	40.0	30.1	59.0	49.0	19.0	18.9	N	
3	0.46475	24.5	18.1	9.7	34.2	27.8	56.6	46.6	22.4	18.8	N	
4	0.56813	24.4	20.1	9.7	34.1	29.8	56.0	46.0	22.0	16.2	N	
5	4.99990	25.6	11.2	9.9	35.5	21.1	56.0	46.0	20.5	24.9	N	
6	6.21443	30.3	17.9	10.0	40.3	27.9	60.0	50.0	19.7	22.1	N	
7	0.23306	41.5	32.5	9.7	51.2	42.2	62.3	52.3	11.2	10.1	L1	
8	0.35199	30.9	21.1	9.7	40.6	30.8	58.9	48.9	18.3	18.1	L1	
9	0.46745	25.5	20.6	9.7	35.2	30.3	56.6	46.6	21.4	16.3	L1	
10	0.58553	25.9	21.7	9.7	35.6	31.4	56.0	46.0	20.5	14.7	L1	
11	4.99990	25.3	8.8	9.9	35.2	18.7	56.0	46.0	20.8	27.3	L1	
12	6.10473	33.6	23.4	10.0	43.6	33.4	60.0	50.0	16.4	16.6	L1	

Calculation:Result[dBuV]=Reading[dBuV]+C.Fac(LISN+Cable)[dB]

Bandwidth (Regulation: FCC 15.503(d) 519(b))

		UL Japan, Inc. SHONAN No.3 Shield Room	
COMPANY	**: Sony Corporation**	**REPORT No.**	**: 29KE0089-SH-01-A**
Equipment	**: TransferJet Module**	**REGULATION**	**: FCC Part15SubpartF 503(d) 519(b)**
MODEL NUMBER	**: CXN5001**	**DATE**	**: 2009/8/14**
SERIAL NUMBER	**: 00001003**	**TEMP./HUMI**	**: 24˚C/55%**
POWER	**: DC5V**	**TEST MODE**	**: Transmitting**
Remarks	**: -**	**ENGINEER**	**: Tatsuya Arai**

10dB Bandwidth: 765.4MHz (LIMIT: >500MHz)
Occupied Bandwidth (99%) : 849.6MHz



Start Frequency: 3480MHz
Stop Frequency: 5480MHz

DATA OF RADIATION TEST (Regulation: FCC 15.519(c))

UL Japan, Inc.
SHONAN NO.3 SEMI-ANECHOIC CHAMBER
Report No. : 29KE0089-SH-01-A

Company : Sony Corporation
Equipment : TransferJet Module
Model : CXN5001
Sample No. : 00001003
Power : DC5V
Mode : Transmitting

Regulation : FCC Part15F Section 15.519(c)
Test Distance : 3m / 0.5m / 0.3m / 0.1m
Date : 2009/8/14
Temperature : 24deg.C
Humidity : 55%
ENGINEER : Tatsuya Arai

Horizontal (RBW: 1MHz)

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT		LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m	EIRP			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	
1	1607.00	36.0	25.2	39.6	1.5	15.6	7.5	-87.7	-75.3	12.4	RMS
2	1980.00	36.3	26.3	39.9	1.8	15.6	8.9	-86.3	-63.3	23.0	RMS
3	3080.00	37.0	28.6	40.2	2.2	15.6	12.0	-83.2	-61.3	21.9	RMS
4	4480.00	43.6	29.8	39.8	2.6	15.6	20.6	-74.6	-41.3	33.3	RMS
5	5956.00	35.7	33.1	38.3	3.1	15.6	18.0	-77.2	-41.3	35.9	RMS
6	7900.00	36.7	37.2	38.5	3.8	15.6	23.5	-71.7	-41.3	30.4	RMS
7	8960.00	35.1	37.3	37.3	3.9	15.6	23.3	-71.9	-41.3	30.6	RMS
8	13440.00	35.4	40.9	36.9	4.6	20.0	24.0	-71.2	-61.3	9.9	RMS
9	17920.00	36.9	46.8	37.7	5.7	20.0	31.7	-63.5	-61.3	2.2	RMS
10	22400.00	36.0	40.1	44.9	6.2	20.0	17.4	-77.8	-61.3	16.5	RMS
11	26880.00	57.8	43.5	68.2	7.5	29.5	11.1	-84.1	-61.3	22.8	RMS
12	31360.00	53.1	43.8	64.2	8.6	29.5	11.8	-83.4	-61.3	22.1	RMS
13	35840.00	60.7	43.2	70.6	8.9	29.5	12.7	-82.5	-61.3	21.2	RMS

No1-7 0.5m, No.8-10: 0.3m, No11-13: 0.1m

Vertical (RBW: 1MHz)

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT		LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m	EIRP			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	
1	1600.00	36.6	25.2	39.6	1.5	15.6	8.1	-87.1	-75.3	11.8	RMS
2	1980.00	37.1	26.3	39.9	1.8	15.6	9.7	-85.5	-63.3	22.2	RMS
3	3080.00	37.0	28.6	40.2	2.2	15.6	12.0	-83.2	-61.3	21.9	RMS
4	4480.00	44.1	29.8	39.8	2.6	15.6	21.1	-74.1	-41.3	32.8	RMS
5	5958.20	36.0	33.1	38.3	3.1	15.6	18.2	-77.0	-41.3	35.7	RMS
6	7897.00	37.0	37.2	38.5	3.8	15.6	23.9	-71.3	-41.3	30.0	RMS
7	8960.00	34.7	37.3	37.3	3.9	15.6	23.0	-72.2	-41.3	30.9	RMS
8	13440.00	35.4	40.9	36.9	4.6	20.0	24.0	-71.2	-61.3	9.9	RMS
9	17920.00	38.5	46.8	37.7	5.7	20.0	33.3	-61.9	-61.3	0.6	RMS
10	22400.00	35.9	40.1	44.9	6.2	20.0	17.3	-77.9	-61.3	16.6	RMS
11	26880.00	57.5	43.5	68.2	7.5	29.5	10.8	-84.4	-61.3	23.1	RMS
12	31360.00	53.1	43.8	64.2	8.6	29.5	11.8	-83.4	-61.3	22.1	RMS
13	35840.00	60.3	43.2	70.6	8.9	29.5	12.3	-82.9	-61.3	21.6	RMS

No1-7 0.5m, No.8-10: 0.3m, No11-13: 0.1m

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + Loss (Cable + ATT) - Distance Factor

Distance Factor calculation 0.5m: 20*log (3.0[m]/0.5[m]) = 15.6[dB]
0.3m: 20*log (3.0[m]/0.3[m]) = 20.0[dB]

RESULT (EIRP) = RESULT (3m field strength) - 95.2

Emissions from digital circuitry (limits in Section 15.209)

Horizontal

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT	LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	680.00	31.1	20.0	31.9	9.6	0.0	28.8	46.0	17.2	QP
2	760.01	30.6	20.6	31.6	9.9	0.0	29.5	46.0	16.5	QP
3	840.00	30.0	21.2	31.4	10.1	0.0	29.9	46.0	16.1	QP

Vertical

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT	LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	680.00	28.2	20.0	31.9	9.7	0.0	26.0	46.0	20.0	QP

DATA OF RADIATION TEST (Regulation: FCC 15.519(d))

UL Japan, Inc.
SHONAN NO.3 SEMI-ANECHOIC CHAMBER
Report No. : 29KE0089-SH-01-A

Company : Sony Corporation
Equipment : TransferJet Module
Model : CXN5001
Sample No. : 00001003
Power : DC5V
Mode : Transmitting

Regulation : FCC Part15F Section 15.519(d)
Test Distance : 0.5m
Date : 2009/8/14
Temperature : 24deg.C
Humidity : 55%

ENGINEER : Tatsuya Arai

Horizontal (RBW: 1kHz)

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT		LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m	EIRP			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBuV/m]	[dB]	
1	1238.86	13.7	24.3	39.7	1.4	15.6	-15.9	-111.1	-85.3	25.8	RMS
2	1607.96	13.7	25.2	39.6	1.6	15.6	-14.7	-109.9	-85.3	24.6	RMS

Vertical (RBW: 1kHz)

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT		LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m	EIRP			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBuV/m]	[dB]	
1	1239.09	14.5	24.3	39.7	1.4	15.6	-15.1	-110.3	-85.3	25.0	RMS
2	1609.24	14.8	25.2	39.6	1.6	15.6	-13.7	-108.9	-85.3	23.6	RMS

Sample Calculation :
RESULT=Reading + ANT Factor - Amp Gain + Loss (Cable + ATT) - Distance Factor
Distance Factor calculation: 20*log (3.0[m]/0.5[m]) = 15.6[dB]
RESULT (EIRP) = RESULT (3m field strength) - 95.2

DATA OF RADIATION TEST (Regulation: FCC 15.519(e))

UL Japan, Inc.
SHONAN NO.3 SEMI-ANECHOIC CHAMBER
Report No. : 29KE0089-SH-01-A

Company : Sony Corporation
Equipment : TransferJet Module
Model : CXN5001
Sample No. : 00001003
Power : DC5V
Mode : Transmitting

Regulation : FCC Part15F Section 15.519(e)
Test Distance : 0.5m
Date : 2009/8/14
Temperature : 24deg.C
Humidity : 55%

ENGINEER : Tatsuya Arai

Horizontal (RBW: 3MHz)

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT		LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m	EIRP	EIRP		
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	
1	4462.00	58.3	29.7	39.8	2.6	15.6	35.2	-35.5	0.0	35.5	Peak

Vertical (RBW: 3MHz)

No.	FREQ	READING	ANT	AMP	CABLE	Distance	RESULT		LIMIT	MARGIN	Detector
			Factor	GAIN	LOSS	Factor	3m	EIRP	EIRP		
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]	[dBm]	[dBm]	[dB]	
1	4433.00	59.1	29.7	39.9	2.6	15.6	35.9	-34.8	0.0	34.8	Peak

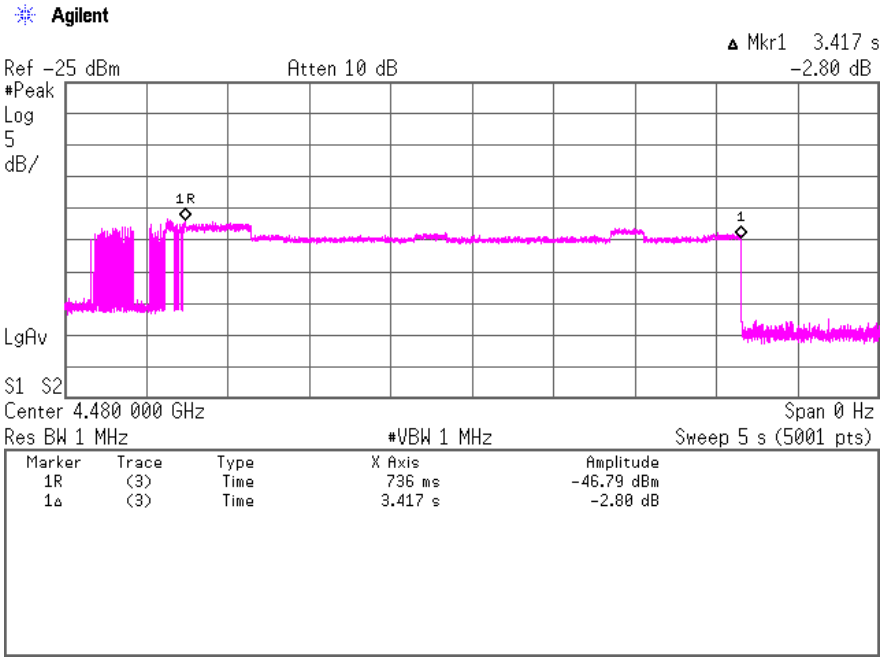
Sample Calculation :
RESULT=Reading + ANT Factor - Amp Gain + Loss (Cable + ATT) - Distance Factor
Distance Factor calculation: 20*log (3.0[m]/0.5[m]) = 15.6[dB]
RESULT (EIRP) = RESULT (3m field strength) - 95.2 - 20log(RBW/50)

Transmitter Timeout (Regulation: FCC 15.519(a)(1))

UL Japan, Inc. SHONAN No.3 Shield Room

COMPANY	**: Sony Corporation**	**REPORT No.**	**: 29KE0089-SH-01-A**
Equipment	**: TransferJet Module**	**REGULATION**	**: FCC Part15SubpartF 519(a)(1)**
MODEL NUMBER	**: CXN5001**	**DATE**	**: 2009/8/14**
SERIAL NUMBER	**: 00001003**	**TEMP./HUMI**	**: 24˚C/55%**
POWER	**: DC5V**	**TEST MODE**	**: Transmitting**
Remarks	**: -**	**ENGINEER**	**: Tatsuya Arai**

Transmitter Timeout: 3.417s (LIMIT: <10s)



APPENDIX 3
Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE 30-1000MHz /BW/TO	2009/02/13 * 12
SAT6-05	Attenuator	JFW	50HF-006N	-	RE 30-1000MHz	2009/02/13 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE 30-1000MHz	2009/03/20 * 12
SCC-C1/C2/C3/C4/C5/C10/SRSE-03	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271(RF Selector)	RE 30-1000MHz	2009/04/06 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE 30-1000MHz	2009/03/20 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE/CE	2009/02/04 * 12
STR-03	Test Receiver	Rohde & Schwarz	ESI40	100054/040	RE 30-1000MHz /CE	2009/04/08 * 12
SJM-03	Measure	KOMELON	KMC-36	-	RE/CE	-
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2009/03/19 * 12
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV	1	RE/CE	-
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE 1-18GHz	2009/03/26 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE 1-18GHz	2009/08/23 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	RE 1-40GHz/BW/TO	2009/02/12 * 12
SAF-09	Pre Amplifier	TOYO Corporation	HAP18-26W	00000018	RE 18-26.5GHz	2009/03/27 * 12
SAF-10	Pre Amplifier	TOYO Corporation	HAP26-40W	00000010	RE 26.5-40GHz	2009/06/29 * 12
SHA-05	Horn Antenna	ETS LINDGREN	3160-09	LM4210	RE 18-26.5GHz	2009/04/09 * 12
SHA-06	Horn Antenna	ETS LINDGREN	3160-10	LM3459	RE 26.5-40GHz	2009/04/30 * 12
SCC-G11	Coaxial Cable	Suhner	SUCOFLEX 102	31595/2	BW/TO	2009/03/11 * 12
SCC-G12	Coaxial Cable	Suhner	SUCOFLEX 102	30790/2	RE 1-40GHz	2009/03/11 * 12
SCC-G13	Coaxial Cable	Suhner	SUCOFLEX 102	31599/2	RE 1-40GHz	2009/03/11 * 12
SCC-C6/C7/C8/C10/SRSE-03	Coaxial Cable&RF Selector	Suhner/Fujikura/Suhner/Suhner/TOYO	141PE/12DSFA/141PE/141PE/NS4906	-/0901-271(RF Selector)	CE	2009/04/06 * 12
SLS-04	LISN	Rohde & Schwarz	ENV216	100514	CE(AE)	2009/02/25 * 12
SLS-05	LISN	Rohde & Schwarz	ENV216	100516	CE(EUT)	2009/02/25 * 12
STM-06	Terminator	TME	CT-01 BP	-	CE	2009/02/12 * 12

The expiration date of the calibration is the end of the expired month .
As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards.

Test Item :
- CE: Conducted emission,
- RE: Radiated emission,
- BW: Band Width
- TO: Transmitter Timeout