

## APPENDIX 2: Data of EMI test

### RF Output Power

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting,  
High / Low power  
EUT-axis H: X-axis, V: Z-axis  
EUT Height 1.0m

UL Japan, Inc.  
Head Office EMC Lab. No.2 and No.3 Semi Anechoic Chamber  
Regulation FCC 74.861(e)(1) / RSS-123 Section 6.2  
FCC 2.1046  
Test Distance 3m  
Date April 3, 2008 April 30, 2008  
Temperature 24 deg.C. 25 deg.C.  
Humidity 38 % 42 %  
Engineer Hisayoshi Sato Kazufumi Nakai  
(Radiated) (Conducted)

#### [Radiated Measurement]

High power

ch.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		L	566.125	115.6	112.6				24.9	23.4		1.3	2.2		
M	578.125	116.1	112.3	25.4	23.1	1.4	2.2	10.1	14.0	11.7	23.9	9.9	12.2	Operating	No2
H	589.875	116.1	113.0	25.4	23.9	1.4	2.2	10.1	14.0	12.5	23.9	9.9	11.4	Operating	No2

Low power

ch.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		L	566.125	108.9	104.8				18.2	15.6		1.3	2.2		
M	578.125	108.2	104.6	17.5	15.4	1.4	2.2	10.1	6.1	4.0	23.9	17.8	19.9	Operating	No2
H	589.875	108.2	104.0	17.5	14.9	1.4	2.2	10.1	6.1	3.5	23.9	17.8	20.4	Operating	No2

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss - 2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

The carrier was measured at each position of all three axes X, Y and Z to compare the level, and the maximum carrier level.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz: T/R AV(BW:120kHz)

#### [Antenna Terminal Conducted Measurement]

High power

Channel	Frequency [MHz]	P/M Reading AV [dBm]	Cable loss [dB]	Atten loss [dB]	Result		Limit		Margin	
					[dBm]	[mW]	[dBm]	[mW]	[dB]	[mW]
L	566.125	5.18	0.54	9.93	15.65	36.73	23.97	250	8.32	213.27
M	578.125	5.20	0.54	9.93	15.67	36.90	23.97	250	8.30	213.10
H	589.875	4.96	0.55	9.93	15.44	34.99	23.97	250	8.53	215.01

Low power

Channel	Frequency [MHz]	P/M Reading AV [dBm]	Cable loss [dB]	Atten loss [dB]	Result		Limit		Margin	
					[dBm]	[mW]	[dBm]	[mW]	[dB]	[mW]
L	566.125	-2.03	0.54	9.93	8.44	6.98	23.97	250	15.53	243.02
M	578.125	-2.42	0.54	9.93	8.05	6.38	23.97	250	15.92	243.62
H	589.875	-2.67	0.55	9.93	7.81	6.04	23.97	250	16.16	243.96

Result = P/M Reading + Cable loss + Atten loss

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

UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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## Modulation Characteristics

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 566.125MHz,  
High power

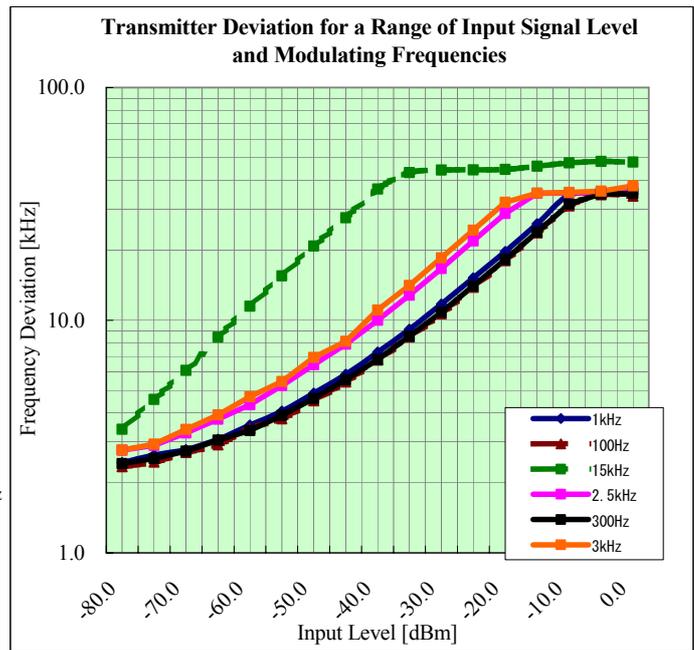
UL Japan, Inc.  
Head Office EMC Lab. No.2 Semi Anechoic Chamber  
Regulation FCC 74.861(e)(3) / RSS-123 Section 5.5  
FCC 2.1047(b)  
Test Distance -  
Date April 9, 2008  
Temperature 24 deg.C.  
Humidity 42 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	2.34	2.41	2.44	2.76	2.77	3.40
-75.0	2.46	2.54	2.63	2.90	2.93	4.57
-70.0	2.70	2.74	2.77	3.28	3.39	6.09
-65.0	2.92	3.05	3.08	3.75	3.92	8.46
-60.0	3.43	3.36	3.54	4.34	4.70	11.49
-55.0	3.77	3.90	4.06	5.22	5.45	15.52
-50.0	4.51	4.61	4.85	6.43	6.92	20.83
-45.0	5.43	5.54	5.85	7.89	8.11	27.60
-40.0	6.74	6.78	7.29	10.00	11.05	36.66
-35.0	8.47	8.53	9.12	12.79	14.11	43.09
-30.0	10.67	10.81	11.72	16.66	18.52	44.15
-25.0	13.84	14.05	15.19	21.89	24.33	44.25
-20.0	18.04	18.22	19.69	28.76	32.17	44.46
-15.0	23.74	23.93	25.96	35.10	35.19	45.93
-10.0	31.03	31.60	34.45	35.29	35.40	47.52
-5.0	34.66	34.97	34.76	35.40	35.92	48.15
0.0	34.13	35.02	34.98	36.98	37.82	47.84
5.0	34.34	35.61	36.03	38.66	39.19	46.93
10.0	48.15	51.21	43.67	39.40	43.40	46.67

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 566.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-26.00	14.45	20.46
-21.00	20.67	26.81
-17.00	20.98	34.13
-10.00	34.45	35.29



## Modulation Characteristics

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 578.125MHz,  
High power

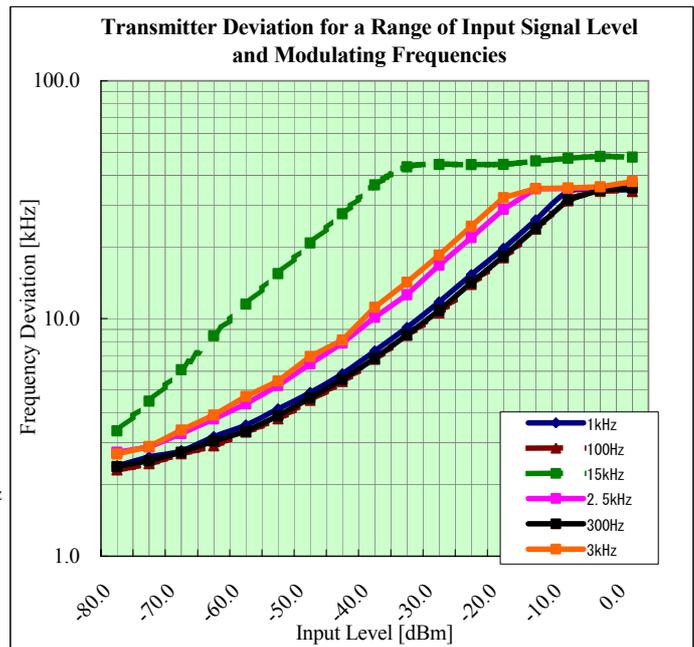
UL Japan, Inc.  
Head Office EMC Lab. No.2 Semi Anechoic Chamber  
Regulation FCC 74.861(e)(3) / RSS-123 Section 5.5  
FCC 2.1047(b)  
Test Distance -  
Date April 9, 2008  
Temperature 24 deg.C.  
Humidity 42 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	2.31	2.38	2.40	2.73	2.69	3.37
-75.0	2.45	2.52	2.61	2.88	2.89	4.49
-70.0	2.70	2.74	2.77	3.28	3.39	6.09
-65.0	2.92	3.05	3.18	3.78	3.92	8.46
-60.0	3.33	3.36	3.56	4.37	4.70	11.49
-55.0	3.79	3.90	4.16	5.23	5.45	15.45
-50.0	4.53	4.63	4.88	6.44	6.92	20.78
-45.0	5.43	5.54	5.85	7.87	8.11	27.56
-40.0	6.74	6.78	7.29	10.10	11.14	36.46
-35.0	8.50	8.54	9.15	12.59	14.22	43.40
-30.0	10.57	10.81	11.72	16.76	18.48	44.50
-25.0	13.94	14.14	15.28	21.92	24.43	44.34
-20.0	18.04	18.22	19.69	28.76	32.22	44.46
-15.0	23.74	23.93	25.96	35.10	35.19	45.93
-10.0	31.33	31.56	34.14	35.23	35.44	47.24
-5.0	34.26	34.72	34.60	35.34	35.84	48.05
0.0	34.23	35.32	34.78	36.78	37.72	47.77
5.0	34.64	35.81	36.03	38.86	39.39	46.83
10.0	48.25	51.41	43.97	39.60	43.90	46.87

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 578.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-26.00	14.23	20.23
-21.00	20.34	26.45
-17.00	21.20	34.03
-10.00	34.14	35.23



## Modulation Characteristics

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 589.875MHz,  
High power

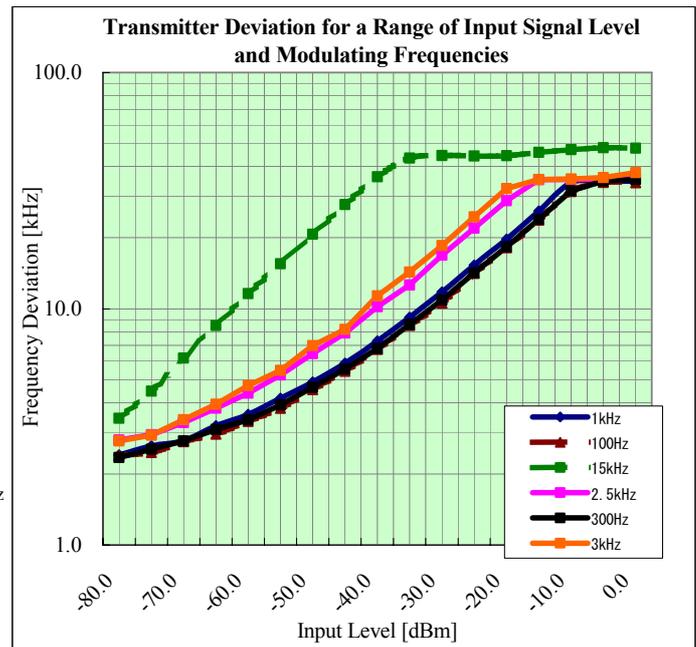
UL Japan, Inc.  
Head Office EMC Lab. No.2 Semi Anechoic Chamber  
Regulation FCC 74.861(e)(3) / RSS-123 Section 5.5  
FCC 2.1047(b)  
Test Distance -  
Date April 9, 2008  
Temperature 24 deg.C.  
Humidity 42 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	2.40	2.35	2.41	2.78	2.76	3.44
-75.0	2.47	2.54	2.63	2.93	2.92	4.48
-70.0	2.74	2.76	2.77	3.30	3.39	6.19
-65.0	2.95	3.08	3.20	3.79	3.95	8.49
-60.0	3.34	3.39	3.57	4.39	4.74	11.59
-55.0	3.79	3.92	4.18	5.25	5.48	15.50
-50.0	4.55	4.65	4.89	6.46	6.98	20.68
-45.0	5.45	5.55	5.89	7.89	8.18	27.62
-40.0	6.75	6.79	7.30	10.21	11.34	36.26
-35.0	8.51	8.56	9.20	12.62	14.32	43.45
-30.0	10.59	10.89	11.78	16.86	18.52	44.56
-25.0	14.12	14.19	15.29	21.94	24.48	44.39
-20.0	18.15	18.26	19.72	28.70	32.26	44.49
-15.0	23.78	23.90	25.92	35.22	35.28	45.99
-10.0	31.38	31.59	34.19	35.25	35.44	47.24
-5.0	34.26	34.72	34.60	35.38	35.89	48.02
0.0	34.21	35.31	34.72	36.75	37.70	47.79
5.0	34.61	35.80	36.02	38.89	39.45	46.88
10.0	48.22	51.40	43.94	39.65	43.93	46.89

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 589.875 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-26.00	14.13	20.26
-21.00	20.14	26.55
-17.00	21.45	34.06
-10.00	34.19	35.25



## Modulation Characteristics

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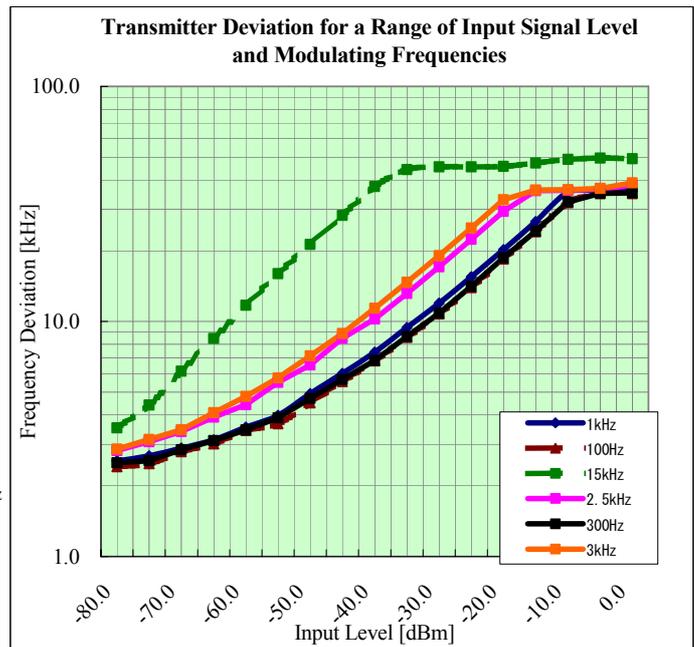
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FCC 2.1047(b)  
Test Distance -  
Date April 9, 2008  
Temperature 24 deg.C.  
Humidity 42 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	2.41	2.50	2.55	2.82	2.86	3.53
-75.0	2.48	2.55	2.68	3.08	3.14	4.41
-70.0	2.80	2.85	2.89	3.40	3.46	6.14
-65.0	3.01	3.11	3.13	3.91	4.10	8.45
-60.0	3.44	3.45	3.55	4.42	4.80	11.72
-55.0	3.67	3.89	3.99	5.50	5.75	15.98
-50.0	4.50	4.70	4.93	6.53	7.14	21.29
-45.0	5.54	5.66	6.01	8.47	8.88	28.26
-40.0	6.80	6.82	7.39	10.25	11.39	37.51
-35.0	8.56	8.62	9.42	13.15	14.67	44.25
-30.0	10.77	10.84	11.95	17.09	19.06	45.41
-25.0	13.96	14.12	15.49	22.36	25.00	45.41
-20.0	18.45	18.65	20.19	29.40	32.93	45.62
-15.0	24.12	24.24	26.60	36.03	36.24	47.20
-10.0	32.01	32.21	35.40	36.14	36.35	48.89
-5.0	34.98	35.12	35.82	36.56	36.87	49.57
0.0	35.01	35.23	35.92	38.03	38.89	49.31
5.0	35.04	35.89	35.82	39.61	36.98	48.57
10.0	47.81	50.24	45.83	40.04	41.62	47.73

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 566.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-27.00	14.22	20.35
-20.00	20.19	29.40
-17.00	24.55	34.11
-11.00	34.14	36.04



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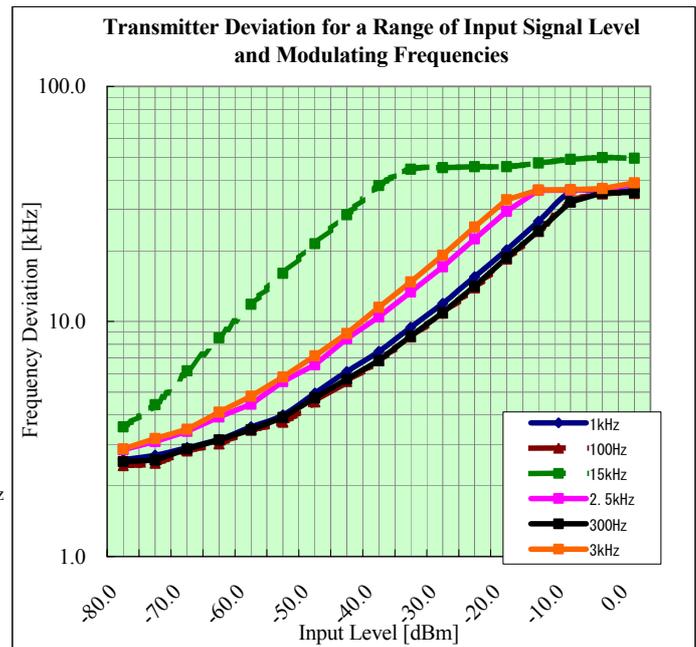
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FCC 2.1047(b)  
Test Distance -  
Date April 9, 2008  
Temperature 24 deg.C.  
Humidity 42 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	2.44	2.53	2.58	2.84	2.87	3.56
-75.0	2.49	2.57	2.70	3.08	3.17	4.43
-70.0	2.82	2.86	2.90	3.41	3.48	6.17
-65.0	3.01	3.13	3.14	3.92	4.12	8.51
-60.0	3.45	3.46	3.56	4.44	4.81	11.83
-55.0	3.72	3.91	3.99	5.54	5.79	16.03
-50.0	4.54	4.73	4.95	6.54	7.14	21.44
-45.0	5.55	5.68	6.11	8.44	8.88	28.45
-40.0	6.81	6.83	7.45	10.45	11.48	37.83
-35.0	8.58	8.64	9.44	13.33	14.71	44.45
-30.0	10.87	10.91	11.94	17.11	19.12	45.15
-25.0	13.93	14.11	15.48	22.44	25.21	45.55
-20.0	18.43	18.63	20.15	29.43	32.92	45.61
-15.0	24.16	24.27	26.63	36.13	36.27	47.22
-10.0	32.23	32.26	35.45	36.19	36.38	48.94
-5.0	34.92	35.23	35.74	36.46	36.73	49.77
0.0	35.12	35.43	35.96	38.43	38.90	49.44
5.0	35.07	35.85	35.81	39.60	36.93	48.37
10.0	47.85	50.27	45.85	40.07	41.68	47.76

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 578.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-27.00	14.34	20.33
-20.00	20.15	29.43
-17.00	24.41	34.15
-11.00	34.04	36.24



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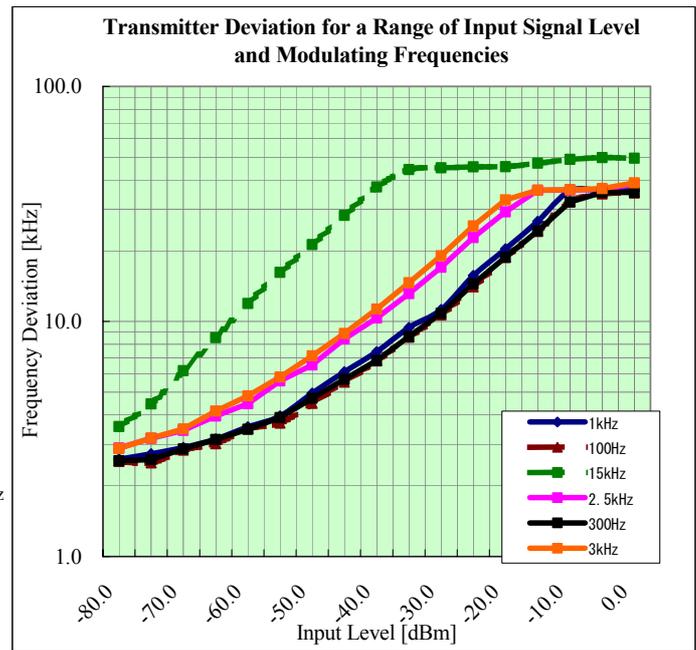
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FCC 2.1047(b)  
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Date April 9, 2008  
Temperature 24 deg.C.  
Humidity 42 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	2.54	2.56	2.59	2.89	2.88	3.57
-75.0	2.50	2.58	2.73	3.18	3.18	4.46
-70.0	2.84	2.87	2.91	3.44	3.49	6.18
-65.0	3.02	3.15	3.16	3.96	4.15	8.53
-60.0	3.49	3.48	3.56	4.47	4.82	11.93
-55.0	3.69	3.90	3.96	5.58	5.80	16.15
-50.0	4.49	4.71	4.95	6.52	7.13	21.24
-45.0	5.52	5.67	6.10	8.42	8.87	28.25
-40.0	6.80	6.82	7.43	10.35	11.28	37.33
-35.0	8.57	8.63	9.42	13.13	14.61	44.25
-30.0	10.67	10.81	11.24	17.01	19.02	45.05
-25.0	14.05	14.41	15.68	22.74	25.51	45.45
-20.0	18.73	18.77	20.35	29.31	32.89	45.56
-15.0	24.18	24.29	26.66	36.15	36.17	47.12
-10.0	32.29	32.21	35.95	36.29	36.38	48.94
-5.0	34.91	35.43	35.94	36.46	36.73	49.77
0.0	35.22	35.43	35.96	38.43	38.90	49.49
5.0	35.07	35.89	35.80	39.71	36.94	48.39
10.0	47.89	50.29	45.89	40.09	41.69	47.79

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 589.875 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-27.00	14.54	20.55
-20.00	20.35	29.31
-17.00	24.52	34.15
-11.00	34.15	36.12



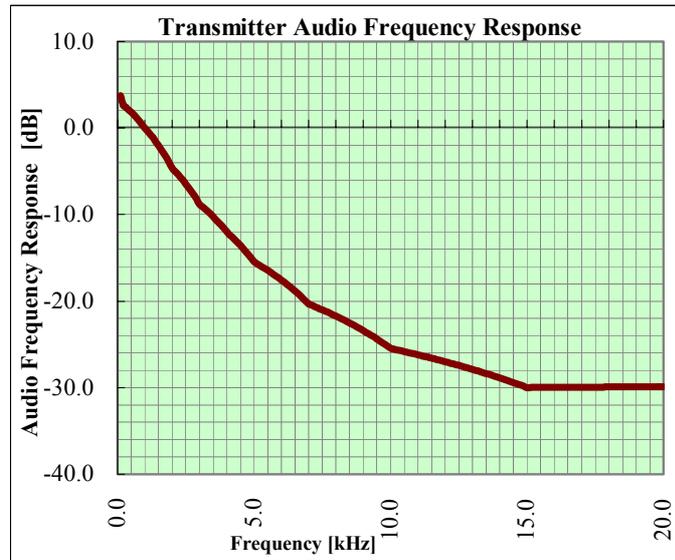
## Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 566.125MHz,  
High power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date April 10, 2008  
Temperature 23 deg.C.  
Humidity 51 %  
Engineer Takahiro Hatakeda

Transmitting 566.125MHz, High power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	129.4200	3.7565
0.2	114.4100	2.6858
0.3	111.1200	2.4323
0.5	103.9300	1.8513
0.7	95.9200	1.1547
1.0	83.9800	0.0000
2.0	49.3200	-4.6231
3.0	30.5800	-8.7748
4.0	21.1000	-11.9979
5.0	14.1500	-15.4684
7.0	8.0800	-20.3353
10.0	4.4800	-25.4580
15.0	2.6600	-29.9859
20.0	2.6900	-29.8885



**UL Japan, Inc.**

**Head Office EMC Lab.**

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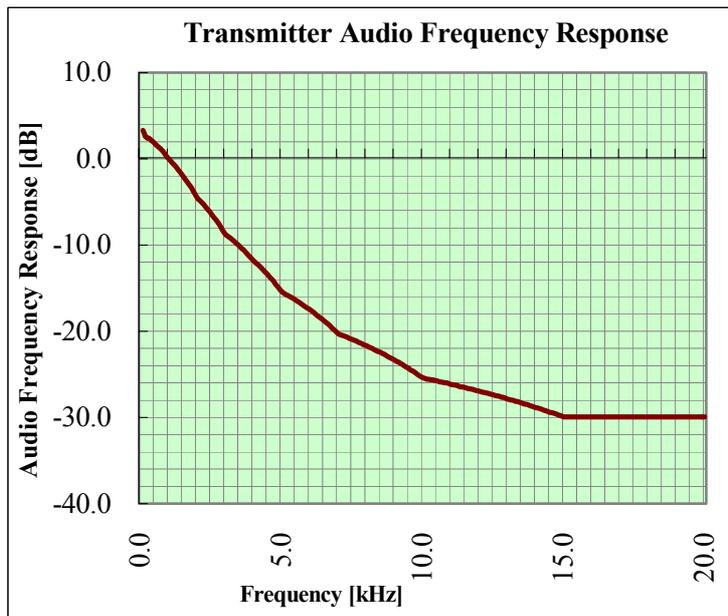
### Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 578.125MHz,  
High power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date April 10, 2008  
Temperature 23 deg.C.  
Humidity 51 %  
Engineer Takahiro Hatakeda

Transmitting 578.125MHz, High power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	134.0300	3.3109
0.2	122.5300	2.5317
0.3	120.4100	2.3801
0.5	112.5500	1.7937
0.7	105.0300	1.1931
1.0	91.5500	0.0000
2.0	54.6900	-4.4750
3.0	33.5600	-8.7167
4.0	23.6200	-11.7676
5.0	15.5200	-15.4153
7.0	8.8600	-20.2845
10.0	4.9100	-25.4115
15.0	2.9100	-29.9553
20.0	2.9100	-29.9553



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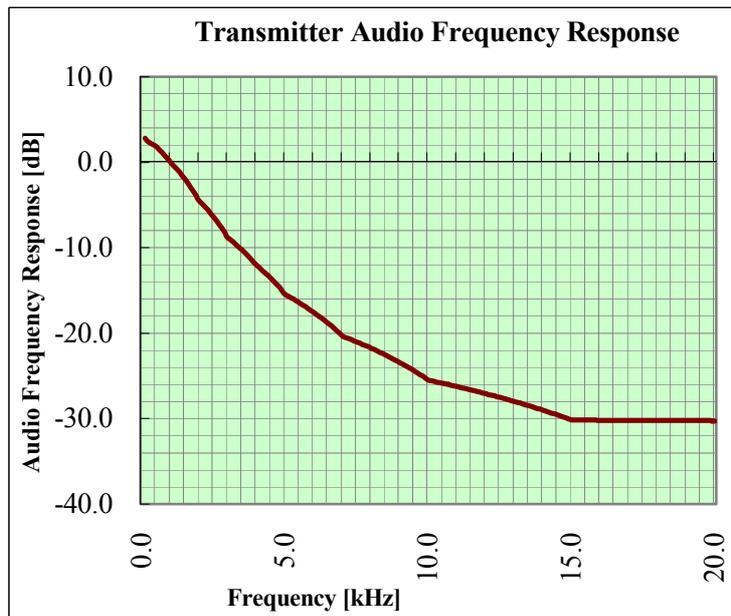
### Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 589.875MHz,  
High power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date April 10, 2008  
Temperature 23 deg.C.  
Humidity 51 %  
Engineer Takahiro Hatakeda

Transmitting 589.875MHz, High power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	153.8100	2.8090
0.2	147.6800	2.4558
0.3	143.5200	2.2076
0.5	137.2300	1.8183
0.7	126.5900	1.1173
1.0	111.3100	0.0000
2.0	66.2400	-4.5083
3.0	40.3600	-8.8117
4.0	27.7700	-12.0592
5.0	18.7700	-15.4614
7.0	10.6800	-20.3593
10.0	5.9100	-25.4989
15.0	3.4500	-30.1743
20.0	3.4200	-30.2502



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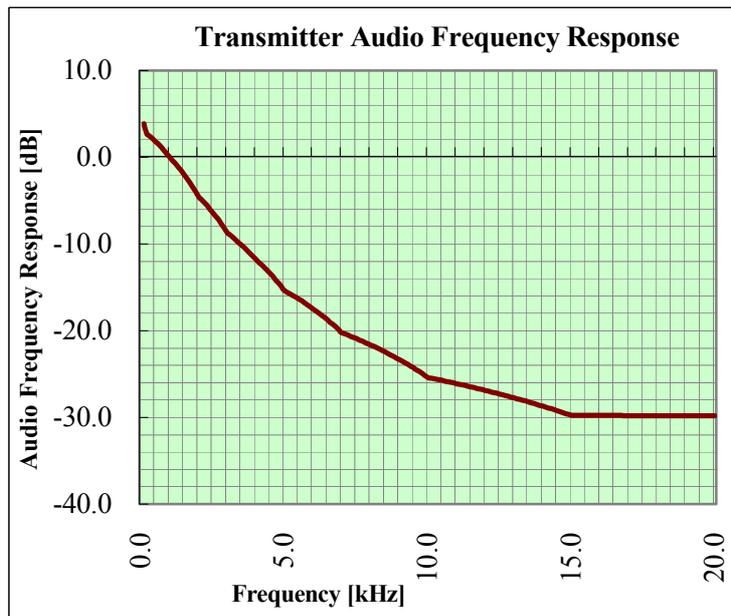
### Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 566.125MHz,  
Low power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date April 10, 2008  
Temperature 23 deg.C.  
Humidity 51 %  
Engineer Takahiro Hatakeda

Transmitting 566.125MHz, Low power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	122.1300	3.8601
0.2	107.2000	2.7276
0.3	103.7300	2.4417
0.5	96.9600	1.8555
0.7	89.7900	1.1882
1.0	78.3100	0.0000
2.0	46.6300	-4.5030
3.0	28.8100	-8.6855
4.0	20.1500	-11.7908
5.0	13.3300	-15.3797
7.0	7.6200	-20.2372
10.0	4.2100	-25.3907
15.0	2.5400	-29.7797
20.0	2.5300	-29.8139



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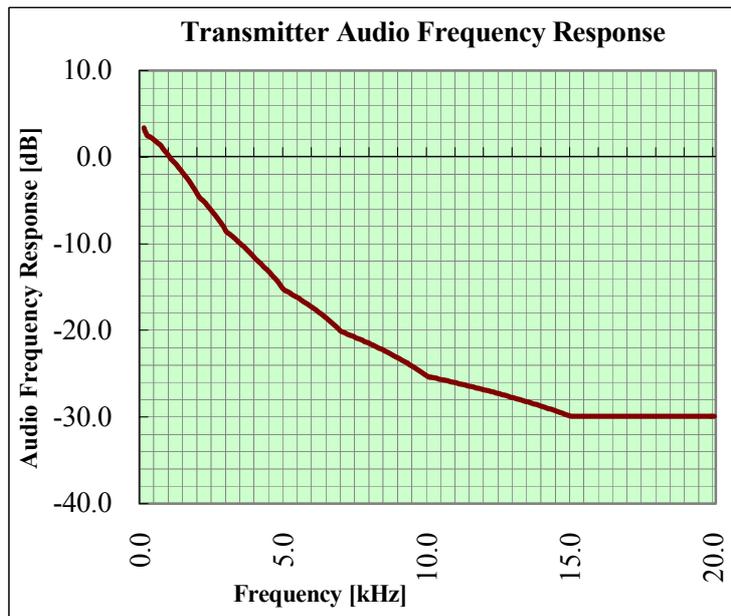
### Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 578.125MHz,  
Low power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date April 10, 2008  
Temperature 23 deg.C.  
Humidity 51 %  
Engineer Takahiro Hatakeda

Transmitting 578.125MHz, Low power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	137.1600	3.4105
0.2	125.2700	2.6228
0.3	121.8400	2.3817
0.5	115.1800	1.8934
0.7	107.6100	1.3030
1.0	92.6200	0.0000
2.0	55.3400	-4.4733
3.0	34.2800	-8.6333
4.0	23.8900	-11.7698
5.0	15.8700	-15.3226
7.0	9.0800	-20.1724
10.0	5.0200	-25.3200
15.0	2.9500	-29.9377
20.0	2.9500	-29.9377



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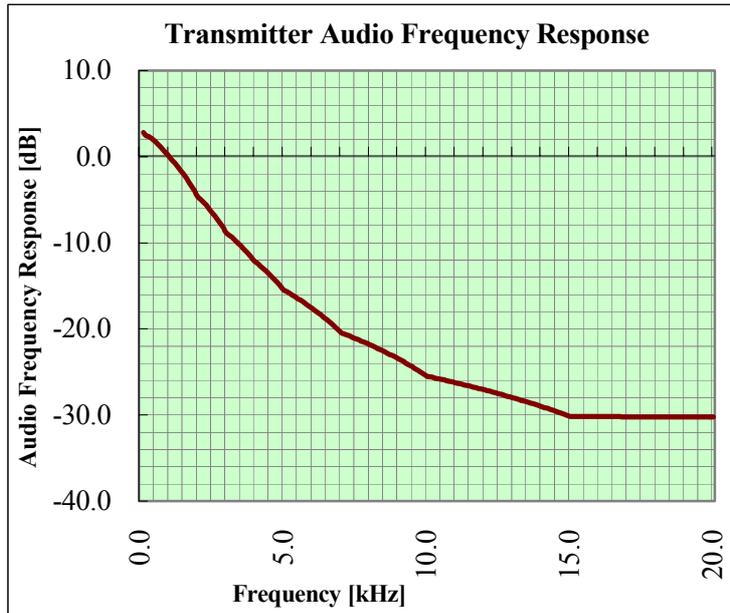
### Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 589.875MHz,  
Low power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date April 10, 2008  
Temperature 23 deg.C.  
Humidity 51 %  
Engineer Takahiro Hatakeda

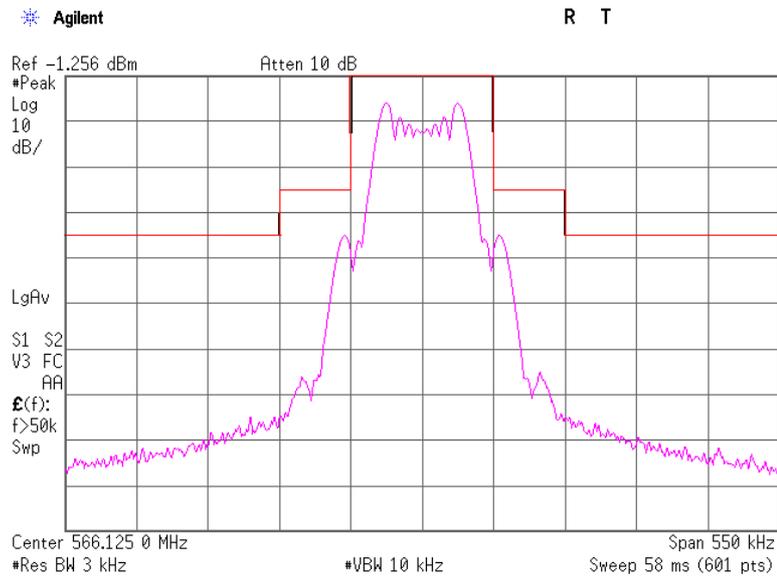
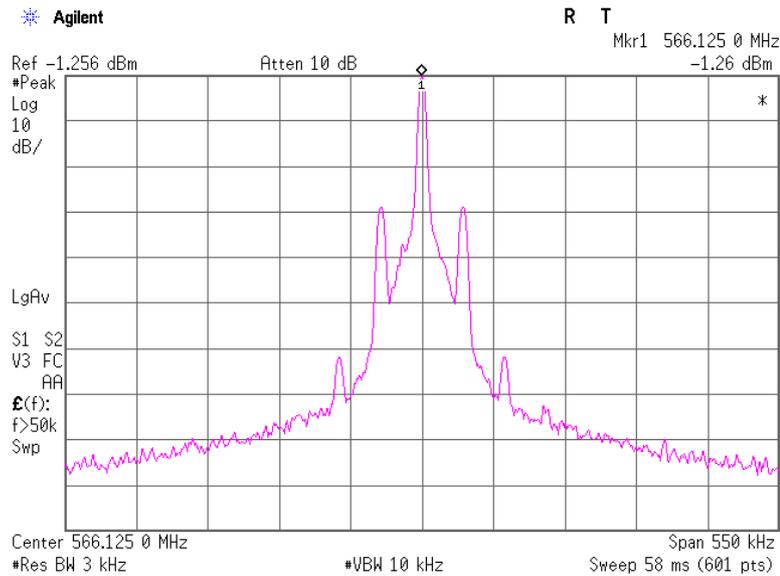
Transmitting 589.875MHz, Low power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	155.6200	2.8129
0.2	149.2100	2.4475
0.3	146.7900	2.3055
0.5	138.8000	1.8193
0.7	128.0800	1.1212
1.0	112.5700	0.0000
2.0	66.2300	-4.6074
3.0	40.7800	-8.8195
4.0	27.7600	-12.1601
5.0	18.9500	-15.4763
7.0	10.6900	-20.4489
10.0	5.9800	-25.4944
15.0	3.4900	-30.1719
20.0	3.4600	-30.2469



## Emission Bandwidth

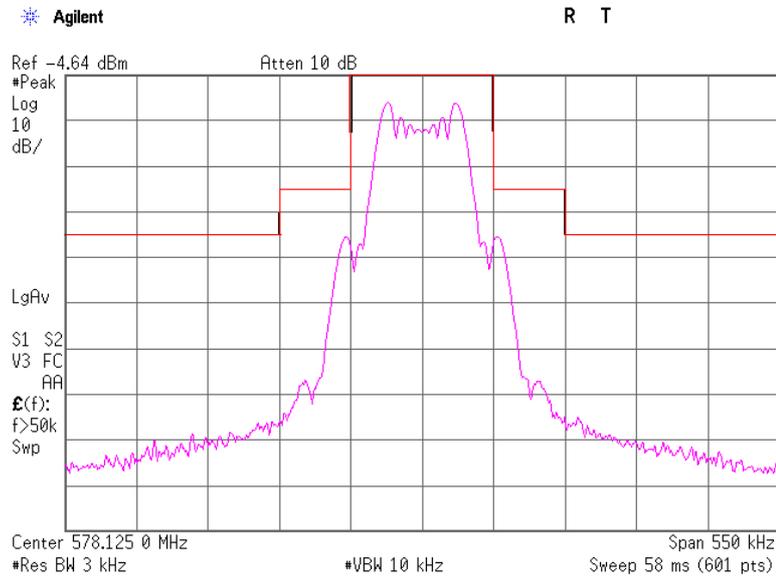
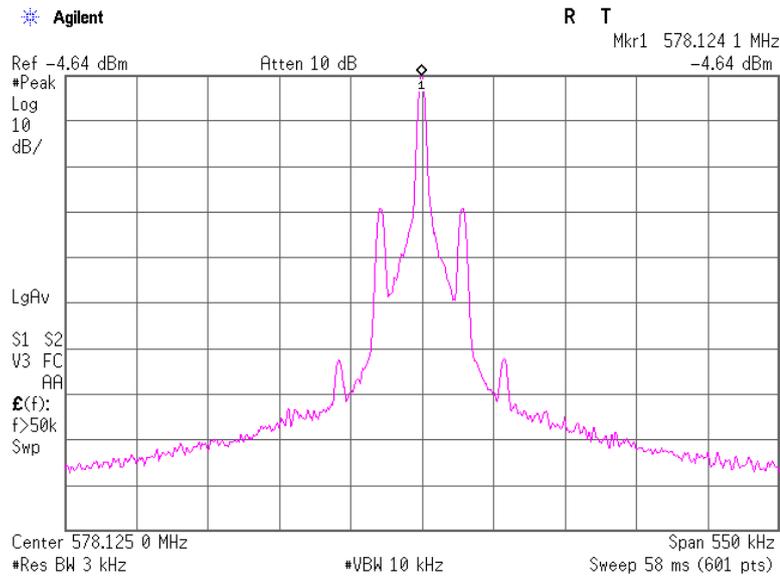
	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Wireless Microphone	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-H2(30)	FCC 2.1049
S/N	8061	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 566.125MHz,	Date
	High power	April 10, 2008
Input audio	-17.0dBV (85% modulation level)	Temperature
		23 deg.C.
		Humidity
		51 %
		Engineer
		Takahiro Hatakeda



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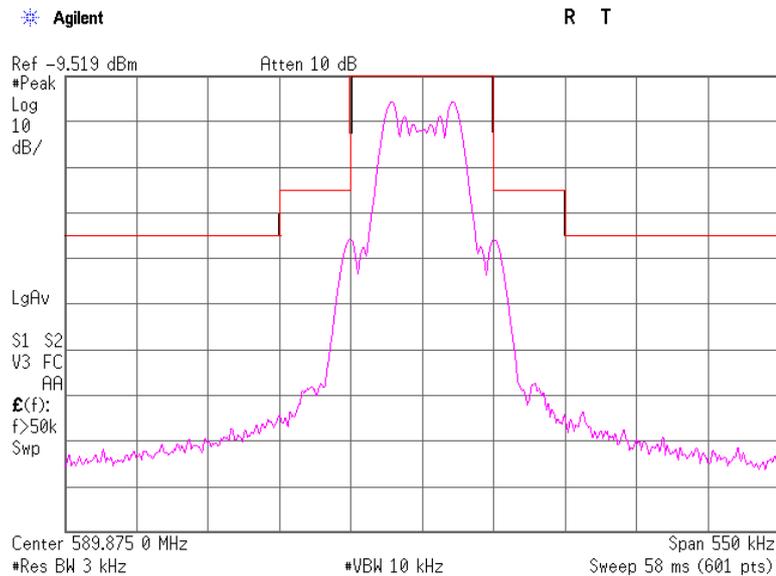
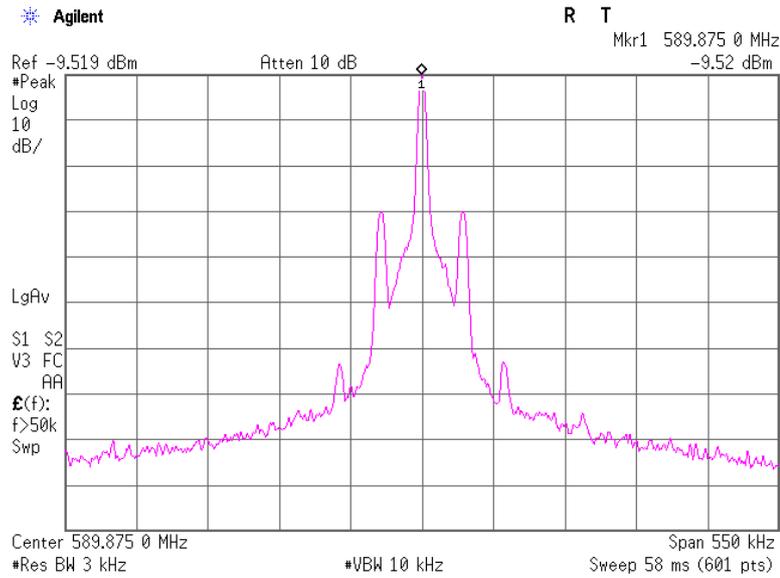
## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Wireless Microphone	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-H2(30)	FCC 2.1049
S/N	8061	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 578.125MHz,	Date
Input audio	High power	April 10, 2008
	-17.0dBV (85% modulation level)	Temperature
		23 deg.C.
		Humidity
		51 %
		Engineer
		Takahiro Hatakeda



## Emission Bandwidth

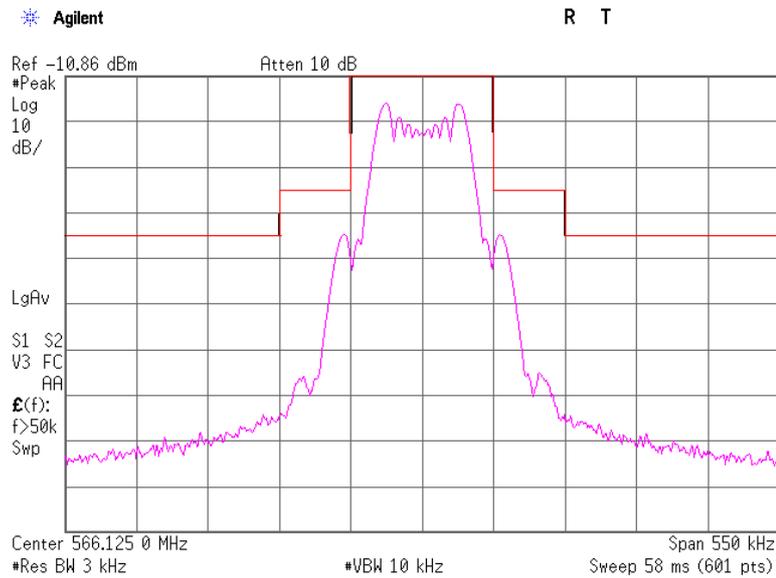
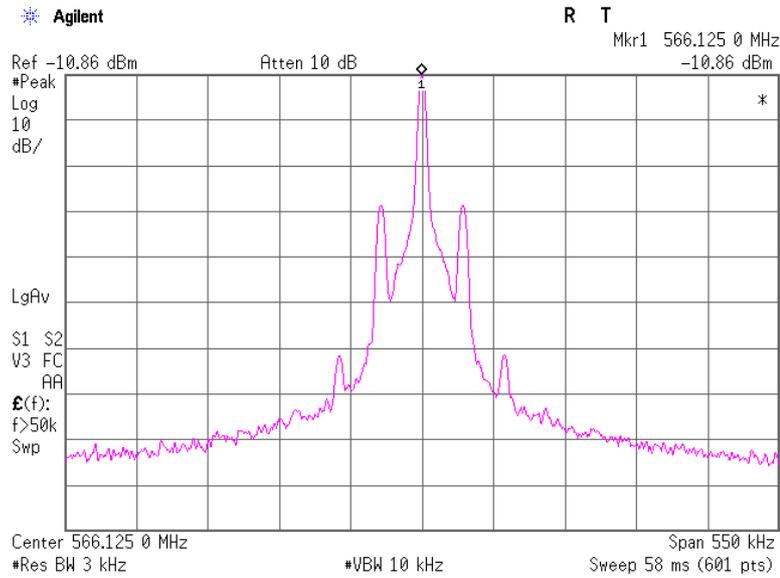
	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Wireless Microphone	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-H2(30)	FCC 2.1049
S/N	8061	Test Distance
Power	DC 3.0V (Battery)	Date
Mode	Continuous Transmitting 589.875MHz,	Temperature
	High power	Humidity
Input audio	-17.0dBV (85% modulation level)	Engineer
		Takahiro Hatakeda



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## Emission Bandwidth

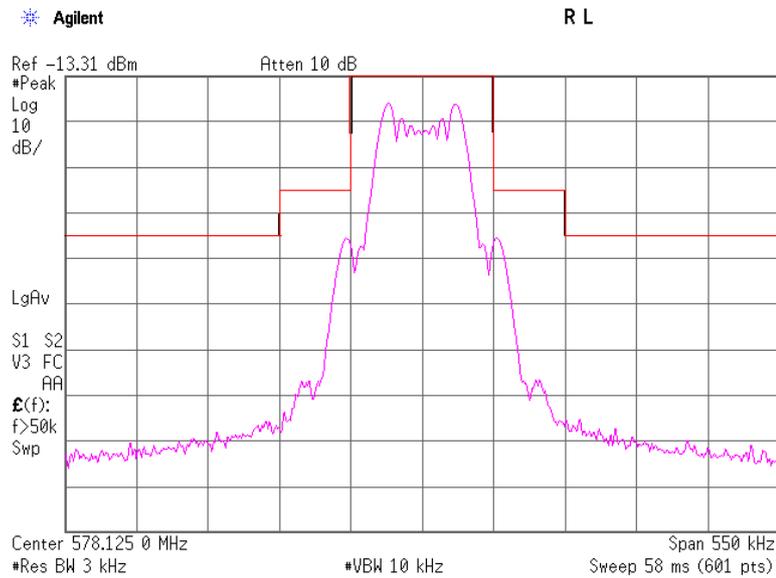
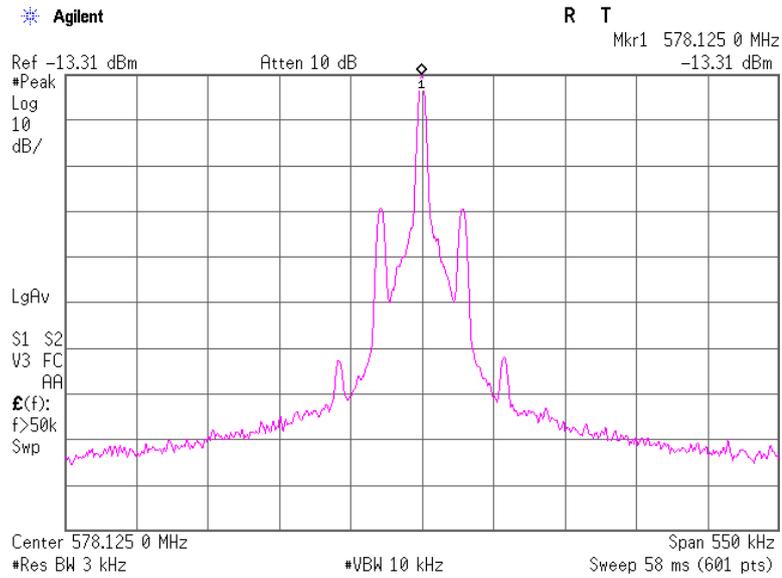
	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Wireless Microphone	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-H2(30)	FCC 2.1049
S/N	8061	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 566.125MHz,	Date
	Low power	April 10, 2008
Input audio	-17.0dBV (85% modulation level)	Temperature
		23 deg.C.
		Humidity
		51 %
		Engineer
		Takahiro Hatakeda



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## Emission Bandwidth

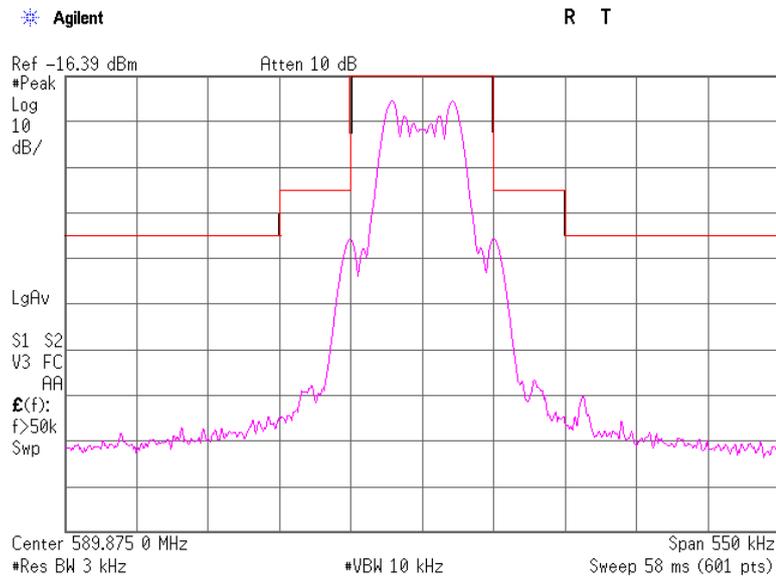
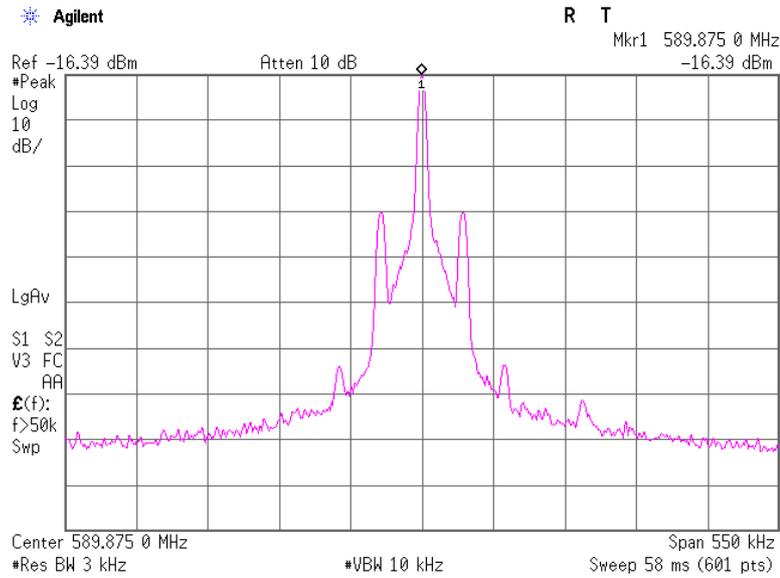
	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Wireless Microphone	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-H2(30)	FCC 2.1049
S/N	8061	Test Distance
Power	DC 3.0V (Battery)	Date
Mode	Continuous Transmitting 578.125MHz,	Temperature
	Low power	Humidity
		Engineer
Input audio	-17.0dBV (85% modulation level)	Takahiro Hatakeda



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## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Wireless Microphone	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-H2(30)	FCC 2.1049
S/N	8061	Test Distance
Power	DC 3.0V (Battery)	Date
Mode	Continuous Transmitting 589.875MHz,	Temperature
	Low power	Humidity
Input audio	-17.0dBV (85% modulation level)	Engineer
		Takahiro Hatakeda



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### Spurious Emissions (Radiated) (Transmitting)

		UL Japan, Inc.	
		Head Office EMC Lab. No.2 Semi Anechoic Chamber	
Company	Sony Corporation	Regulation	FCC 74.861(e)(6) / RSS-123 Section 6.3
Equipment	UHF Synthesized Wireless Microphone		FCC 2.1053
Model	UTX-H2(30)	Test Distance	3m
S/N	8061	Date	April 3, 2008
Power	DC 3.0V (Battery)	Temperature	24 deg.C.
Mode	Continuous Transmitting 566.125MHz, High power	Humidity	38 %
EUT-axis	H: X-axis, V: Z-axis	Engineer	Hisayoshi Sato
EUT Height	1.0m		

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx	Tx	Tx Ant.	RESULT (ERP) [dBm]		LIMIT	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER	Cable Loss [dB]	Ant. Gain [dBi]	ATT. Loss [dB]	HOR	VER	[dBm] (ERP)	HOR	VER		
1	1132.25	46.4	38.0	-53.6	-62.7	2.9	5.9	0.0	-52.8	-61.9	-13.0	39.8	48.9	Operating	No2
2	1698.38	42.6	42.3	-58.7	-59.3	3.6	8.8	0.0	-55.7	-56.3	-13.0	42.7	43.3	Operating	No2
3	2264.50	43.2	40.9	-59.4	-61.3	4.2	10.6	0.0	-55.2	-57.0	-13.0	42.2	44.0	Operating	No2
4	2830.63	46.7	40.9	-55.7	-61.6	4.8	11.2	0.0	-51.5	-57.4	-13.0	38.5	44.4	Operating	No2
5	3396.75	44.1	41.3	-58.3	-61.2	5.2	12.0	0.0	-53.6	-56.4	-13.0	40.6	43.4	Operating	No2
6	3962.88	38.1	39.9	-64.8	-62.2	5.5	13.0	0.0	-59.4	-56.9	-13.0	46.4	43.9	Operating	No2
7	4529.00	44.5	42.4	-57.6	-60.2	5.9	12.9	0.0	-52.7	-55.4	-13.0	39.7	42.4	Operating	No2
8	5095.13	38.2	36.0	-63.2	-66.9	6.3	12.9	0.0	-58.8	-62.5	-13.0	45.8	49.5	Operating	No2
9	5661.25	58.0	52.4	-43.3	-49.6	6.8	13.3	0.0	-38.9	-45.2	-13.0	<b>25.9</b>	32.2	Operating	No2

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

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## Spurious Emissions (Radiated) (Transmitting)

		UL Japan, Inc.
Company	Sony Corporation	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Equipment	UHF Synthesized Wireless Microphone	Regulation
Model	UTX-H2(30)	FCC 74.861(e)(6) / RSS-123 Section 6.3
S/N	8061	FCC 2.1053
Power	DC 3.0V (Battery)	Test Distance
Mode	Continuous Transmitting 578.125MHz,	3m
	High power	Date
EUT-axis	H: X-axis, V: Z-axis	April 3, 2008
EUT Height	1.0m	Temperature
		24 deg.C.
		Humidity
		38 %
		Engineer
		Hisayoshi Sato

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	1156.25	39.0	44.0	-61.1	-56.8	3.0	6.0	0.0	-60.1	-55.8	-13.0	47.1	42.8	Operating	No2
2	1734.38	35.9	43.8	-65.5	-57.9	3.6	9.0	0.0	-62.3	-54.7	-13.0	49.3	41.7	Operating	No2
3	2312.50	43.3	44.0	-59.4	-58.2	4.3	10.6	0.0	-55.2	-53.9	-13.0	42.2	40.9	Operating	No2
4	2890.63	40.3	41.7	-62.0	-60.9	4.8	11.3	0.0	-57.7	-56.6	-13.0	44.7	43.6	Operating	No2
5	3468.75	5.5	45.4	-97.0	-57.0	5.2	12.1	0.0	-92.2	-52.2	-13.0	79.2	39.2	Operating	No2
6	4046.88	42.2	40.8	-60.6	-61.3	5.5	13.0	0.0	-55.3	-56.0	-13.0	42.3	43.0	Operating	No2
7	4625.00	44.6	36.3	-57.4	-66.4	6.0	12.9	0.0	-52.6	-61.6	-13.0	39.6	48.6	Operating	No2
8	5203.13	33.8	34.0	-67.6	-68.8	6.4	13.0	0.0	-63.1	-64.4	-13.0	50.1	51.4	Operating	No2
9	5781.25	58.6	56.0	-42.6	-45.7	6.9	13.4	0.0	-38.3	-41.4	-13.0	<b>25.3</b>	28.4	Operating	No2

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

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## Spurious Emissions (Radiated) (Transmitting)

		UL Japan, Inc.
Company	Sony Corporation	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Equipment	UHF Synthesized Wireless Microphone	Regulation
Model	UTX-H2(30)	FCC 74.861(e)(6) / RSS-123 Section 6.3
S/N	8061	FCC 2.1053
Power	DC 3.0V (Battery)	Test Distance
Mode	Continuous Transmitting 589.875MHz,	3m
	High power	Date
EUT-axis	H: X-axis, V: Z-axis	April 3, 2008
EUT Height	1.0m	Temperature
		24 deg.C.
		Humidity
		38 %
		Engineer
		Hisayoshi Sato

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	1179.75	49.1	44.1	-51.0	-56.7	3.0	6.2	0.0	-50.0	-55.7	-13.0	37.0	42.7	Operating	No2
2	1769.63	43.2	43.9	-58.3	-57.8	3.7	9.1	0.0	-55.0	-54.5	-13.0	42.0	41.5	Operating	No2
3	2359.50	43.3	44.2	-59.5	-58.0	4.3	10.7	0.0	-55.3	-53.7	-13.0	42.3	40.7	Operating	No2
4	2949.38	48.5	41.9	-53.7	-60.7	4.9	11.3	0.0	-49.4	-56.5	-13.0	36.4	43.5	Operating	No2
5	3539.25	56.5	47.1	-46.0	-55.3	5.2	12.3	0.0	-41.2	-50.4	-13.0	28.2	37.4	Operating	No2
6	4129.13	42.4	40.6	-60.3	-61.6	5.6	13.0	0.0	-55.0	-56.4	-13.0	42.0	43.4	Operating	No2
7	4719.00	45.7	35.8	-56.1	-67.0	6.0	12.9	0.0	-51.4	-62.3	-13.0	38.4	49.3	Operating	No2
8	5308.88	39.5	35.1	-61.8	-67.5	6.5	13.1	0.0	-57.4	-63.1	-13.0	44.4	50.1	Operating	No2
9	5898.75	59.1	56.7	-42.1	-44.8	7.0	13.5	0.0	-37.8	-40.4	-13.0	<b>24.8</b>	27.4	Operating	No2

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

**UL Japan, Inc.**

**Head Office EMC Lab.**

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## Spurious Emissions (Radiated) (Transmitting)

		UL Japan, Inc.
Company	Sony Corporation	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Equipment	UHF Synthesized Wireless Microphone	Regulation
Model	UTX-H2(30)	FCC 74.861(e)(6) / RSS-123 Section 6.3
S/N	8061	FCC 2.1053
Power	DC 3.0V (Battery)	Test Distance
Mode	Continuous Transmitting 566.125MHz,	3m
	Low power	Date
EUT-axis	H: X-axis, V: Z-axis	April 3, 2008
EUT Height	1.0m	Temperature
		24 deg.C.
		Humidity
		38 %
		Engineer
		Hisayoshi Sato

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	1132.25	50.8	37.4	-49.2	-63.3	2.9	5.9	0.0	-48.4	-62.5	-13.0	35.4	49.5	Operating	No2
2	1698.38	40.9	41.5	-60.4	-60.1	3.6	8.8	0.0	-57.4	-57.1	-13.0	44.4	44.1	Operating	No2
3	2264.50	38.2	40.3	-64.4	-61.9	4.2	10.6	0.0	-60.2	-57.6	-13.0	47.2	44.6	Operating	No2
4	2830.63	46.1	41.1	-56.3	-61.4	4.8	11.2	0.0	-52.1	-57.2	-13.0	39.1	44.2	Operating	No2
5	3396.75	55.2	49.3	-47.2	-53.2	5.2	12.0	0.0	-42.5	-48.4	-13.0	<b>29.5</b>	35.4	Operating	No2
6	3962.88	43.8	42.8	-59.1	-59.3	5.5	13.0	0.0	-53.7	-54.0	-13.0	40.7	41.0	Operating	No2
7	4529.00	52.5	53.4	-49.6	-49.2	5.9	12.9	0.0	-44.7	-44.4	-13.0	31.7	31.4	Operating	No2
8	5095.13	37.9	37.0	-63.5	-65.9	6.3	12.9	0.0	-59.1	-61.5	-13.0	46.1	48.5	Operating	No2
9	5661.25	45.0	47.1	-56.3	-54.9	6.8	13.3	0.0	-51.9	-50.5	-13.0	38.9	37.5	Operating	No2

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

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## Spurious Emissions (Radiated) (Transmitting)

		UL Japan, Inc.
Company	Sony Corporation	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Equipment	UHF Synthesized Wireless Microphone	Regulation
Model	UTX-H2(30)	FCC 74.861(e)(6) / RSS-123 Section 6.3
S/N	8061	FCC 2.1053
Power	DC 3.0V (Battery)	Test Distance
Mode	Continuous Transmitting 578.125MHz,	3m
	Low power	Date
EUT-axis	H: X-axis, V: Z-axis	April 3, 2008
EUT Height	1.0m	Temperature
		24 deg.C.
		Humidity
		38 %
		Engineer
		Hisayoshi Sato

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	1156.25	53.3	43.8	-46.8	-57.0	3.0	6.0	0.0	-45.8	-56.0	-13.0	32.8	43.0	Operating	No2
2	1734.38	35.2	41.0	-66.2	-60.7	3.6	9.0	0.0	-63.0	-57.5	-13.0	50.0	44.5	Operating	No2
3	2312.50	41.3	43.7	-61.4	-58.5	4.3	10.6	0.0	-57.2	-54.2	-13.0	44.2	41.2	Operating	No2
4	2890.63	49.0	41.7	-53.3	-60.9	4.8	11.3	0.0	-49.0	-56.6	-13.0	36.0	43.6	Operating	No2
5	3468.75	59.5	55.5	-43.0	-46.9	5.2	12.1	0.0	-38.2	-42.1	-13.0	<b>25.2</b>	29.1	Operating	No2
6	4046.88	41.1	44.8	-61.7	-57.3	5.5	13.0	0.0	-56.4	-52.0	-13.0	43.4	39.0	Operating	No2
7	4625.00	46.6	40.3	-55.4	-62.4	6.0	12.9	0.0	-50.6	-57.6	-13.0	37.6	44.6	Operating	No2
8	5203.13	37.8	37.5	-63.6	-65.3	6.4	13.0	0.0	-59.1	-60.9	-13.0	46.1	47.9	Operating	No2
9	5781.25	55.6	53.0	-45.6	-48.7	6.9	13.4	0.0	-41.3	-44.4	-13.0	28.3	31.4	Operating	No2

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

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## Spurious Emissions (Radiated) (Transmitting)

	UL Japan, Inc.	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Wireless Microphone	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-H2(30)	FCC 2.1053
S/N	8061	Test Distance
Power	DC 3.0V (Battery)	3m
Mode	Continuous Transmitting 589.875MHz,	Date
	Low power	April 3, 2008
EUT-axis	H: X-axis, V: Z-axis	Temperature
EUT Height	1.0m	24 deg.C.
		Humidity
		38 %
		Engineer
		Hisayoshi Sato

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		1	1179.75	54.1	47.1				-46.0	-53.7		3.0	6.2		
2	1769.63	37.2	40.9	-64.3	-60.8	3.7	9.1	0.0	-61.0	-57.5	-13.0	48.0	44.5	Operating	No2
3	2359.50	43.5	39.2	-59.3	-63.0	4.3	10.7	0.0	-55.1	-58.7	-13.0	42.1	45.7	Operating	No2
4	2949.38	46.5	45.9	-55.7	-56.7	4.9	11.3	0.0	-51.4	-52.5	-13.0	38.4	39.5	Operating	No2
5	3539.25	55.0	47.0	-47.5	-55.4	5.2	12.3	0.0	-42.7	-50.5	-13.0	29.7	37.5	Operating	No2
6	4129.13	41.5	39.6	-61.2	-62.6	5.6	13.0	0.0	-55.9	-57.4	-13.0	42.9	44.4	Operating	No2
7	4719.00	43.7	36.0	-58.1	-66.8	6.0	12.9	0.0	-53.4	-62.1	-13.0	40.4	49.1	Operating	No2
8	5308.88	38.5	37.1	-62.8	-65.5	6.5	13.1	0.0	-58.4	-61.1	-13.0	45.4	48.1	Operating	No2
9	5898.75	57.1	53.7	-44.1	-47.8	7.0	13.5	0.0	-39.8	-43.4	-13.0	<b>26.8</b>	30.4	Operating	No2

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

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## Frequency Stability

UL Japan, Inc.

Head Office EMC Lab. No.6 Shielded Room

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 3.0V  
Mode Continuous Transmitting (No Modulation)  
566.125MHz / 578.125MHz / 589.875MHz

Regulation FCC74.861 (e) (4) / RSS-123\_7(a)  
Test Distance -  
Date 04/04/2008  
Temperature 24 deg.C.  
Humidity 25 %  
Engineer Hisayoshi Sato

### 566.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	566.12600643	0.00100643	1.78	50.00	48.22
40deg.C.	566.12582310	0.00082310	1.45	50.00	48.55
30deg.C.	566.12527857	0.00027857	0.49	50.00	49.51
T nom 20deg.C.	566.12517428	0.00017428	0.31	50.00	49.69
10deg.C.	566.12328045	-0.00171955	-3.04	50.00	46.96
0deg.C.	566.12017860	-0.00482140	-8.52	50.00	41.48
-10deg.C.	566.11901632	-0.00598368	-10.57	50.00	39.43
-20deg.C.	566.11536721	-0.00963279	-17.02	50.00	32.98
T min -30deg.C	566.12054422	-0.00445578	-7.87	50.00	42.13

566.125 MHz +/-0.005 % (+/- 50ppm) =

+/- 0.028306 MHz

### 578.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	578.12652310	0.00152310	2.63	50.00	47.37
40deg.C.	578.12581320	0.00081320	1.41	50.00	48.59
30deg.C.	578.12510958	0.00010958	0.19	50.00	49.81
T nom 20deg.C.	578.12519186	0.00019186	0.33	50.00	49.67
10deg.C.	578.12403240	-0.00096760	-1.67	50.00	48.33
0deg.C.	578.12187900	-0.00312100	-5.40	50.00	44.60
-10deg.C.	578.11887980	-0.00612020	-10.59	50.00	39.41
-20deg.C	578.11684320	-0.00815680	-14.11	50.00	35.89
T min -30deg.C	578.11964395	-0.00535605	-9.26	50.00	40.74

578.125 MHz +/-0.005 % (+/- 50ppm) =

+/- 0.028906 MHz

### 589.875MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	589.87620140	0.00120140	2.04	50.00	47.96
40deg.C.	589.87573014	0.00073014	1.24	50.00	48.76
30deg.C.	589.87523639	0.00023639	0.40	50.00	49.60
T nom 20deg.C.	589.87516741	0.00016741	0.28	50.00	49.72
10deg.C.	589.87373438	-0.00126562	-2.15	50.00	47.85
0deg.C.	589.87072393	-0.00427607	-7.25	50.00	42.75
-10deg.C.	589.87050244	-0.00449756	-7.62	50.00	42.38
-20deg.C	589.86949122	-0.00550878	-9.34	50.00	40.66
T min -30deg.C	589.87079924	-0.00420076	-7.12	50.00	42.88

589.875 MHz +/-0.005 % (+/-50ppm) =

+/- 0.029494 MHz

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## Frequency Stability

UL Japan, Inc.

Head Office EMC Lab. No.6 Shielded Room

Regulation FCC74.861 (e) (4) / RSS-123\_7(a)

Test Distance -

Date 04/04/2008

Temperature 24 deg.C.

Humidity 25 %

Engineer Hisayoshi Sato

Company Sony Corporation  
Equipment UHF Synthesized Wireless Microphone  
Model UTX-H2(30)  
S/N 8061  
Power DC 1.949V (end point)  
Mode Continuous Transmitting (No Modulation)  
566.125MHz / 578.125MHz / 589.875MHz

### 566.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	566.12587432	0.00087432	1.54	50.00	48.46
40deg.C.	566.12577472	0.00077472	1.37	50.00	48.63
30deg.C.	566.12531318	0.00031318	0.55	50.00	49.45
T nom 20deg.C.	566.12514557	0.00014557	0.26	50.00	49.74
10deg.C.	566.12328873	-0.00171127	-3.02	50.00	46.98
0deg.C.	566.11969823	-0.00530177	-9.37	50.00	40.63
-10deg.C.	566.11907312	-0.00592688	-10.47	50.00	39.53
-20deg.C.	566.11958121	-0.00541879	-9.57	50.00	40.43
T min -30deg.C.	566.12069211	-0.00430789	-7.61	50.00	42.39

566.125 MHz +/-0.005 % (+/- 50ppm) =

+/- 0.028306 MHz

### 578.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	578.12651939	0.00151939	2.63	50.00	47.37
40deg.C.	578.12572949	0.00072949	1.26	50.00	48.74
30deg.C.	578.12518130	0.00018130	0.31	50.00	49.69
T nom 20deg.C.	578.12514882	0.00014882	0.26	50.00	49.74
10deg.C.	578.12395800	-0.00104200	-1.80	50.00	48.20
0deg.C.	578.12191624	-0.00308376	-5.33	50.00	44.67
-10deg.C.	578.11888862	-0.00611138	-10.57	50.00	39.43
-20deg.C.	578.12014632	-0.00485368	-8.40	50.00	41.60
T min -30deg.C.	578.12071823	-0.00428177	-7.41	50.00	42.59

578.125 MHz +/-0.005 % (+/- 50ppm) =

+/- 0.028906 MHz

### 589.875MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	589.87646339	0.00146339	2.48	50.00	47.52
40deg.C.	589.87596432	0.00096432	1.63	50.00	48.37
30deg.C.	589.87522931	0.00022931	0.39	50.00	49.61
T nom 20deg.C.	589.87515677	0.00015677	0.27	50.00	49.73
10deg.C.	589.87383213	-0.00116787	-1.98	50.00	48.02
0deg.C.	589.87128845	-0.00371155	-6.29	50.00	43.71
-10deg.C.	589.86915444	-0.00584556	-9.91	50.00	40.09
-20deg.C.	589.86954321	-0.00545679	-9.25	50.00	40.75
T min -30deg.C.	589.87071123	-0.00428877	-7.27	50.00	42.73

589.875 MHz +/-0.005 % (+/-50ppm) =

+/- 0.029494 MHz

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## Frequency Stability

	UL Japan, Inc.
Company	Sony Corporation
Equipment	UHF Synthesized Wireless Microphone
Model	UTX-H2(30)
S/N	8061
Power	DC 3.0V / DC 2.55V / DC 3.45V
Mode	Continuous Transmitting (No Modulation)
	566.125MHz / 578.125MHz / 589.875MHz
	Head Office EMC Lab. No.6 Shielded Room
	Regulation RSS-123_7(b)
	Test Distance -
	Date 04/04/2008
	Temperature 24 deg.C.
	Humidity 25 %
	Engineer Hisayoshi Sato

### 566.125MHz(S/N:8061)

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T nom 20deg.C. / Vnom 3.0V	566.12517428	0.00017428	0.31	50.00	49.69
T nom 20deg.C. / Vmin 2.55V	566.12512721	0.00012721	0.22	50.00	49.78
T nom 20deg.C. / Vmax 3.45V	566.12517351	0.00017351	0.31	50.00	49.69
566.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028306 MHz					

### 578.125MHz(S/N:8061)

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T nom 20deg.C. / Vnom 3.0V	578.12519186	0.00019186	0.33	50.00	49.67
T nom 20deg.C. / Vmin 2.55V	578.12514421	0.00014421	0.25	50.00	49.75
T nom 20deg.C. / Vmax 3.45V	578.12515261	0.00015261	0.26	50.00	49.74
578.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028906 MHz					

### 589.875MHz(S/N:8061)

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T nom 20deg.C. / Vnom 3.0V	589.87516741	0.00016741	0.28	50.00	49.72
T nom 20deg.C. / Vmin 2.55V	589.87512433	0.00012433	0.21	50.00	49.79
T nom 20deg.C. / Vnom 3.45V	589.87521718	0.00021718	0.37	50.00	49.63
589.875 MHz +/-0.005 % (+/-50ppm) = +/- 0.029494 MHz					

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### **APPENDIX 3: Test Instruments**

#### **EMI test equipment**

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MUC-01	Universal Counter	Agilent	53132A	FT	2007/05/23 * 12
MMM-11	Digital HiTESTER	Hioki	3805	FT	2007/04/18 * 12
MCH-04	Temperature and Humidity Chamber	Espec	PL-2KP	FT	2007/08/30 * 12
MDPS-12	DC Power Supply	Kikusui	PAK35-10A	FT	Pre Check
MOS-14	Thermo-Hygrometer	Custom	CTH-180	FT	2008/01/10 * 12
MRENT-62	Spectrum Analyzer	Agilent	E4448A	RE	2007/11/27 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE / MOD	
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2008/04/02 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / MOD	2007/04/02 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/10/21 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2008/02/15 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2007/11/13 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2007/09/13 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE / MOD	2007/10/21 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2008/01/19 * 12
MCC-47	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/08/28 * 12
MCC-25	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/08/27 * 12
MHF-08	High Pass Filter 0.7-5GHz	TOKIMEC	TF305CCA	RE	2007/06/26 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2007/09/27 * 12
MRENT-49	Audio Analyzer	KENWOOD	VA-2230	RE / MOD	2008/02/20 * 12
MRS-01	Radiocommunication Service Monitor	Rohde & Schwarz	CMS54	MOD	2008/02/27 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	RE / MOD	2007/12/27 * 12
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2008/02/08 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2007/09/22 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2007/09/22 * 12
MAT-10	Attenuator(10dB)	Weinschel Corp	2	AT	2007/11/14 * 12
MCC-64	Coaxial Cable	TOYO Technica Corporation	-	AT	2008/03/11 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	AT	2008/01/10 * 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:**

**MOD : Modulation Characteristics**  
**FT : Frequency Tolerance**  
**RE : Radiated emission (Other tests)**  
**AT : Antenna terminal**

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