

APPENDIX 2: Data of EMI test

Conducted Emission
Ch:Low

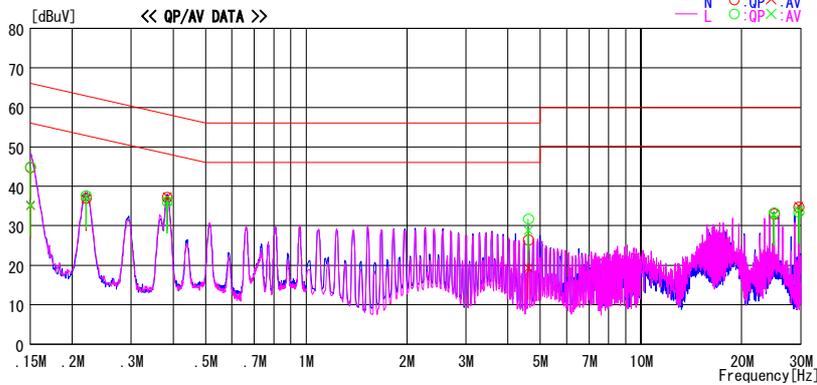
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/16 13:42:09

Company : Sony EMCS Corp. Saitama TEC
 Kind of EUT : Compact Disc Receiver
 Model No. : HCD-HX7
 Serial No. : 11
 Report No. : 27EE0055-HO
 Power : AC 120V / 60Hz
 Temp./Humi. : 23deg. C / 39%
 Operator : Norihisa Hashimoto

Mode / Remarks : Transmitting 2402MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
 FCC15C § 15.207 (AV) / RSS-Gen / RSS-210



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	44.5	34.8	0.3	44.8	35.1	66.0	56.0	21.2	20.9	N
0.21997	36.6	36.4	0.4	37.0	36.8	62.8	52.8	25.8	16.0	N
0.38432	36.8	36.9	0.4	37.2	37.3	58.2	48.2	21.0	10.9	N
4.60812	25.5	18.4	0.9	26.4	19.3	56.0	46.0	29.6	26.7	N
24.96048	30.7	30.4	2.3	33.0	32.7	60.0	50.0	27.0	17.3	N
29.56811	32.2	32.5	2.5	34.7	35.0	60.0	50.0	25.3	15.0	N
0.15000	44.6	35.0	0.3	44.9	35.3	66.0	56.0	21.1	20.7	L
0.21989	37.2	37.1	0.4	37.6	37.5	62.8	52.8	25.2	15.3	L
0.38396	35.7	35.8	0.4	36.1	36.2	58.2	48.2	22.1	12.0	L
4.60802	30.9	27.8	0.9	31.8	28.7	56.0	46.0	24.2	17.3	L
24.96010	31.0	30.5	2.3	33.3	32.8	60.0	50.0	26.7	17.2	L
29.56811	31.0	31.3	2.5	33.5	33.8	60.0	50.0	26.5	16.2	L

CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
Ch:Mid

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2006/12/16 14:14:58

Company	: Sony EMCS Corp. Saitama TEC	Report No.	: 27EE0055-HO
Kind of EUT	: Compact Disc Receiver	Power	: AC 120V / 60Hz
Model No.	: HCD-HX7	Temp./Humi.	: 23deg. C / 39%
Serial No.	: 11	Operator	: Norihisa Hashimoto

Mode / Remarks : Transmitting 2441MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
 FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

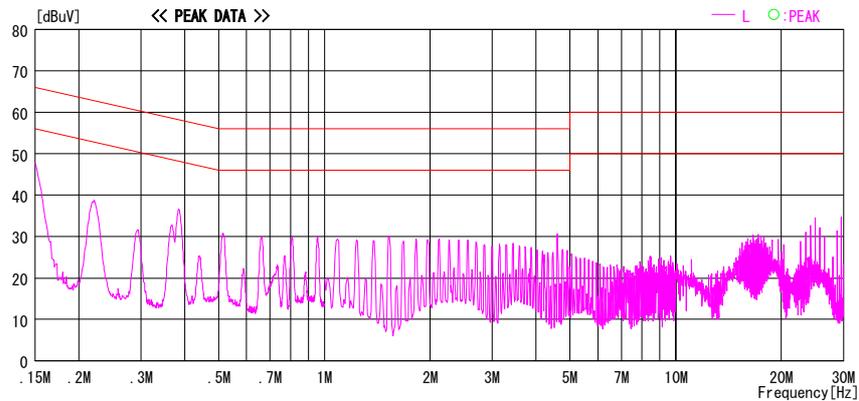
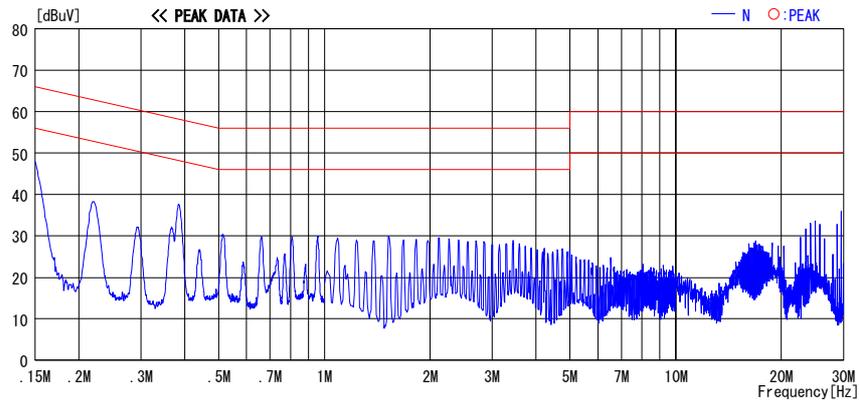


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE)
 Except for the above table : adequate margin data below the limits.

Conducted Emission

Ch:High

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2006/12/16 14:25:02

Company	: Sony EMCS Corp. Saitama TEC	Report No.	: 27EE0055-HO
Kind of EUT	: Compact Disc Receiver	Power	: AC 120V / 60Hz
Model No.	: HCD-HX7	Temp./Humi.	: 23deg. C / 39%
Serial No.	: 11	Operator	: Norihisa Hashimoto

Mode / Remarks : Transmitting 2480MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
 FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

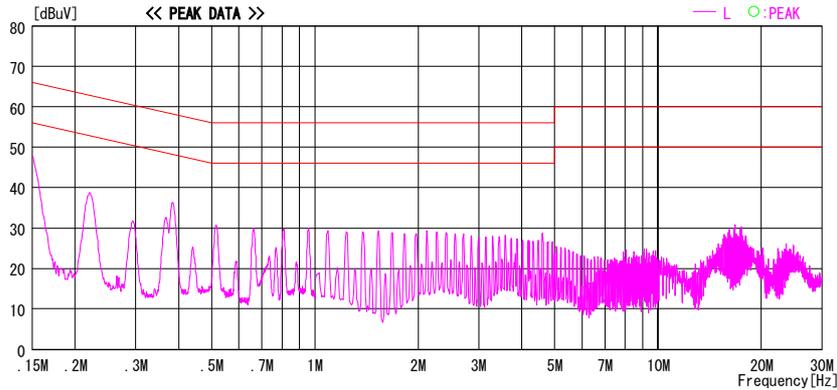
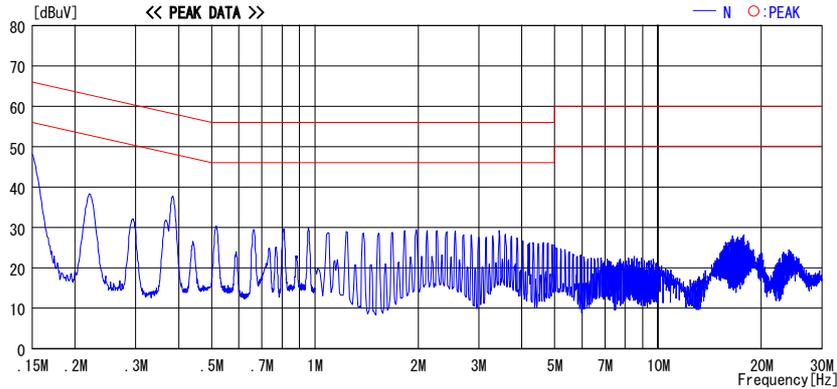


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C.F(L1SN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

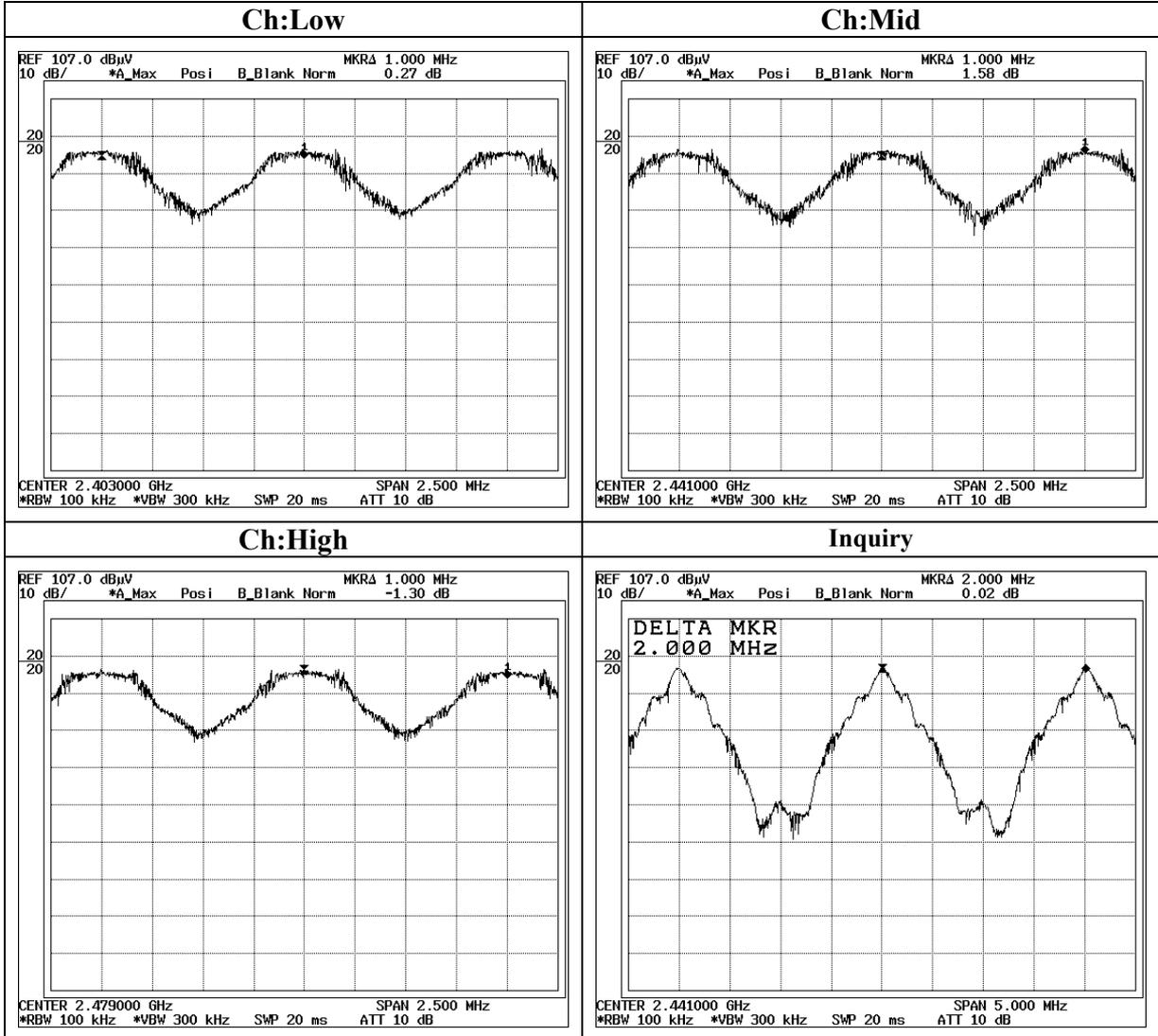
Carrier Frequency Separation

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Sony EMCS Corp. SaitamaTEC	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(2)
EQUIPMENT	: Compact Disc Receiver	TEST DISTANCE	: -
MODEL	: HCD-HX7	DATE	: 12/12/2006
S/ N	: 11	TEMPERATURE	: 23deg.C
POWER	: AC120V / 60Hz	HUMIDITY	: 32%
MODE	: Transmitting (2402,2441,2480MHz)/Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>two-thirds of 0.870MHz(20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of 0.870MHz(20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of 0.867MHz(20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of 0.762MHz(20dB Bandwidth) or 25[kHz](whichever is greater)

Carrier Frequency Separation



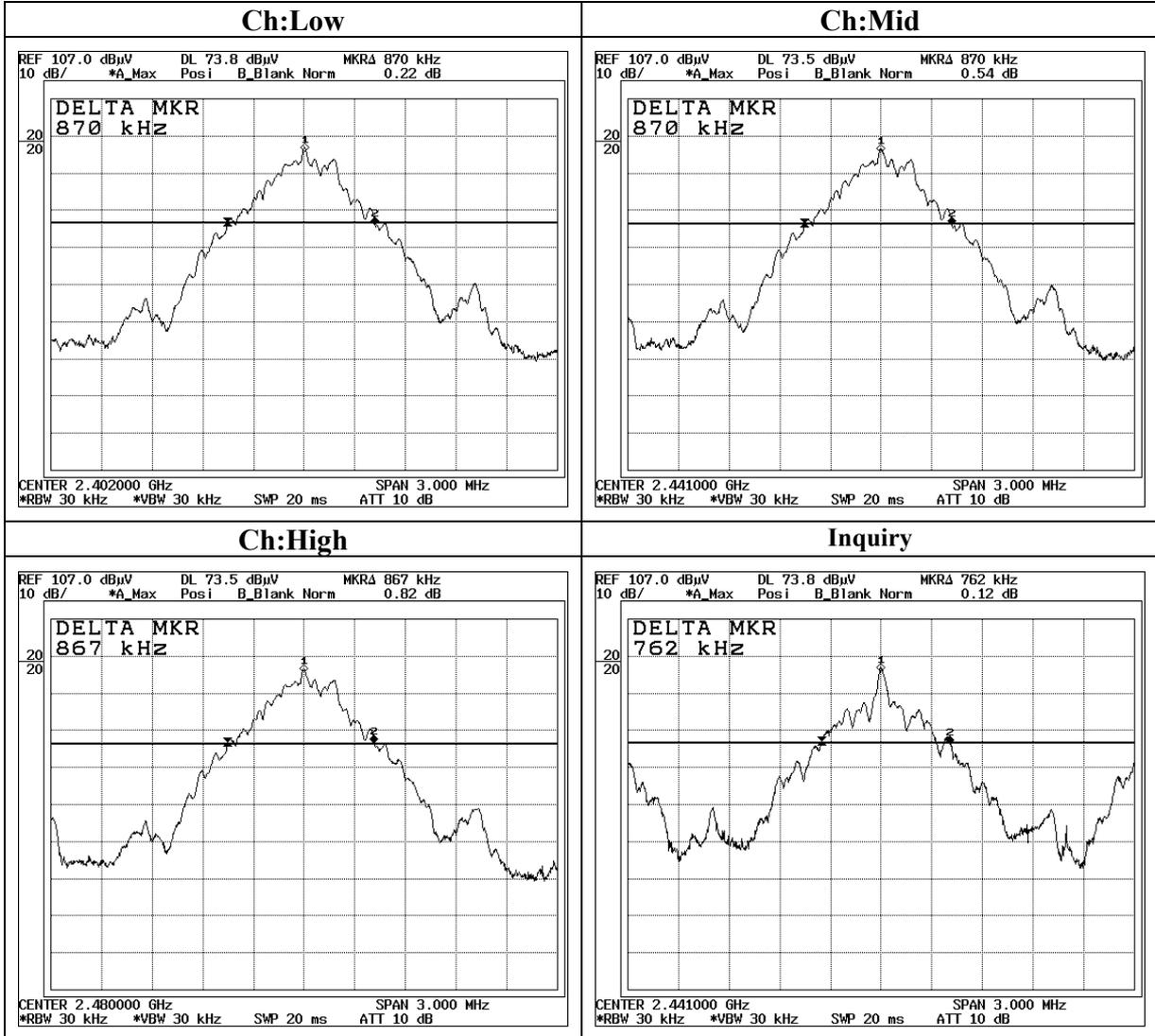
20dB Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Sony EMCS Corp. SaitamaTEC REGULATION : FCC15.247(a)(1)/RSS-210A8.1(1)
EQUIPMENT : Compact Disc Receiver TEST DISTANCE : -
MODEL : HCD-HX7 DATE : 12/12/2006
S/N : 11 TEMPERATURE : 23deg.C
POWER : AC120V / 60Hz HUMIDITY : 32%
MODE : Transmitting (2402,2441,2480MHz)/Inquiry ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.870	-
Mid	2441.0	0.870	-
High	2480.0	0.867	-
Inquiry	2441.0	0.762	-

20dB Bandwidth



Number of Hopping Frequency

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

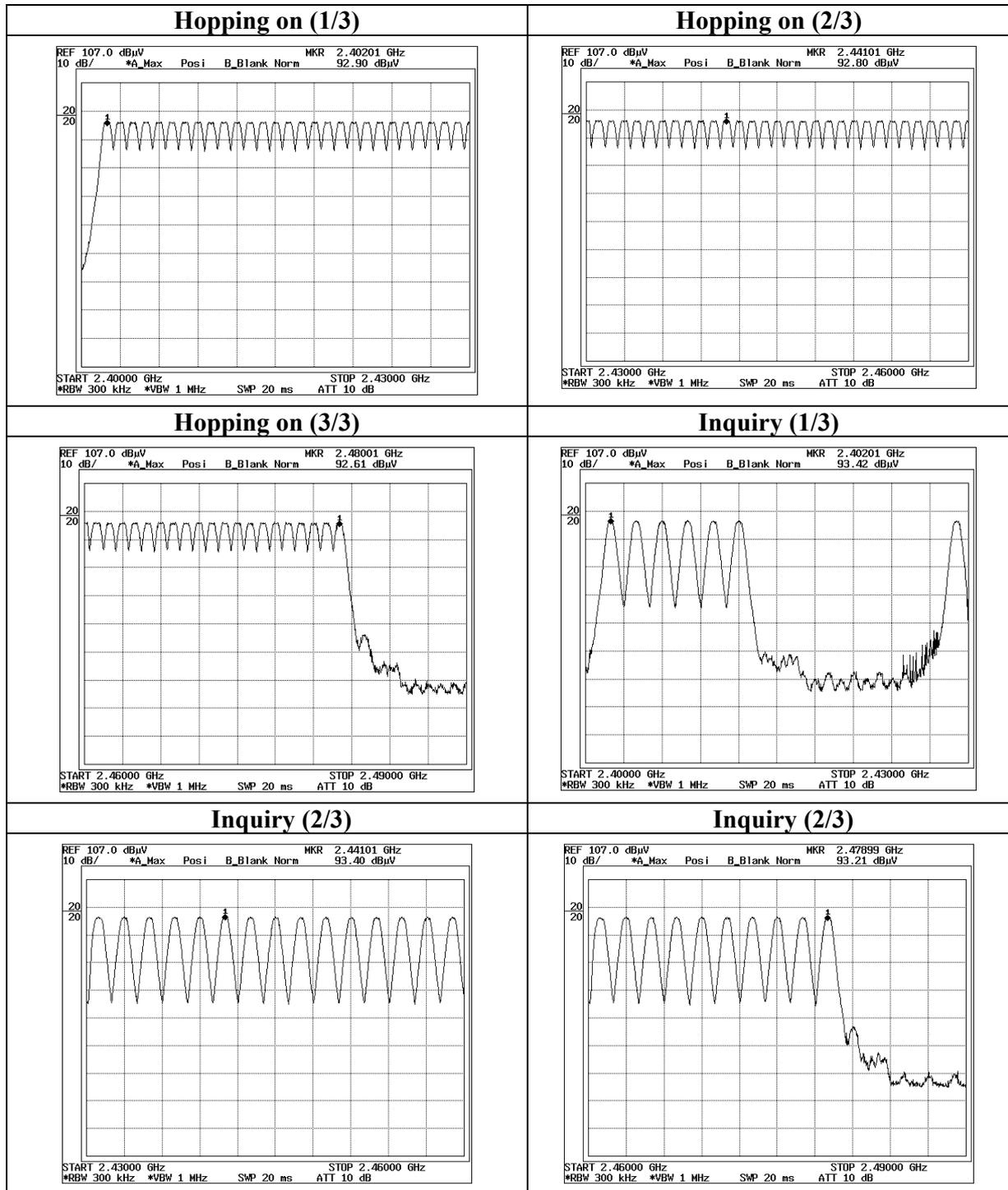
COMPANY : Sony EMCS Corp. SaitamaTEC
EQUIPMENT : Compact Disc Receiver
MODEL : HCD-HX7
S/N : 11
POWER : AC120V / 60Hz
MODE : Transmitting (2402,2441,2480MHz)/Inquiry

REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
TEST DISTANCE : -
DATE : 12/12/2006
TEMPERATURE : 23deg.C
HUMIDITY : 32%
ENGINEER : Shinya Watanabe

Mode	Number of channel	Limit
	[time]	[time]
Tx(Hoppng on)	79	≥ 15

Mode	Number of channel	Limit
	[time]	[time]
Inquiry	32	≥ 15

Number of Hopping Frequency



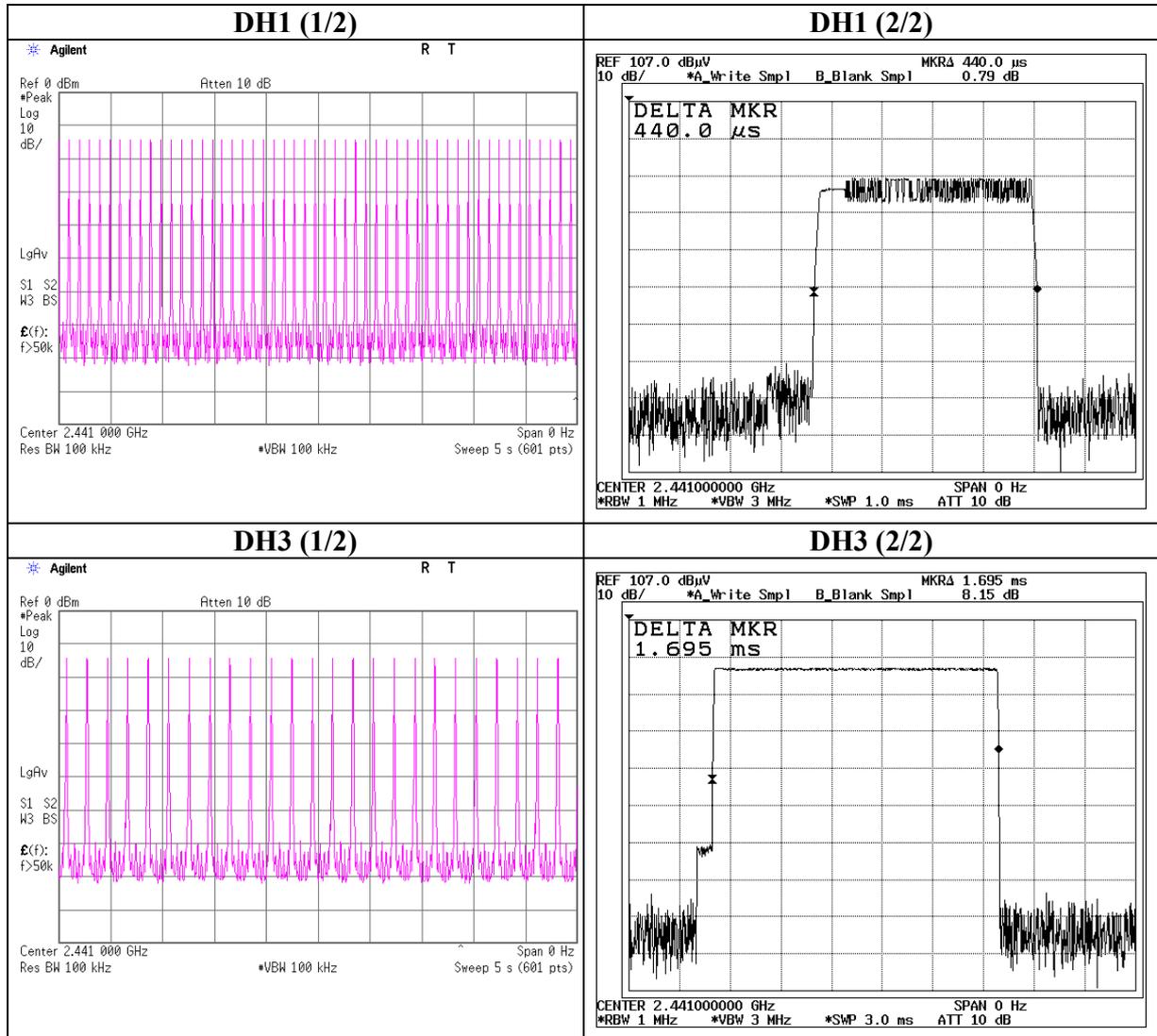
Dwell time

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

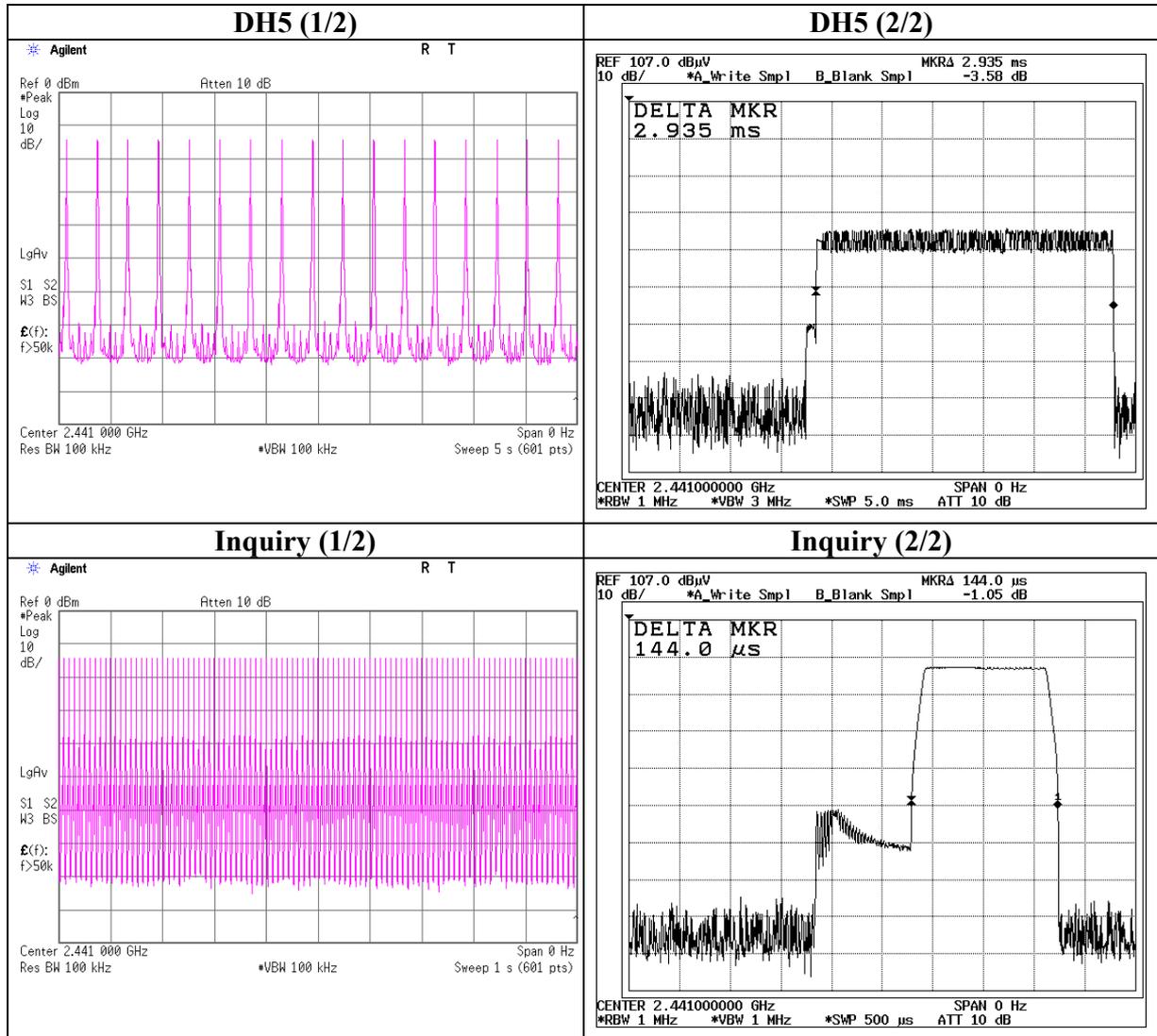
COMPANY	: Sony EMCS Corp. SaitamaTEC	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
EQUIPMENT	: Compact Disc Receiver	TEST DISTANCE	: -
MODEL	: HCD-HX7	DATE	: 12/12/2006
S/ N	: 11	TEMPERATURE	: 23deg.C
POWER	: AC120V / 60Hz	HUMIDITY	: 32%
MODE	: Transmitting (2402,2441,2480MHz)/Inquiry	ENGINEER	: Shinya Watanabe

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	51 times / 5 sec. x 31.6 sec. = 323 times	0.440	142	400
DH3	25 times / 5 sec. x 31.6 sec. = 158 times	1.695	268	400
DH5	17 times / 5 sec. x 31.6 sec. = 108 times	2.935	317	400
Inquiry	95 times / 1 sec. x 12.8 sec. = 1216 times	0.144	175	400

Dwell time



Dwell time



Maximum Peak Output Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Sony EMCS Corp. SaitamaTEC	REGULATION : FCC15.247(b)(1)/RSS-210A8.4(2)
EQUIPMENT : Compact Disc Receiver	TEST DISTANCE : -
MODEL : HCD-HX7	DATE : 12/12/2006
S/ N : 11	TEMPERATURE : 23deg.C
POWER : AC120V / 60Hz	HUMIDITY : 32%
MODE : Transmitting (2402,2441,2480MHz)/Inquiry	ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-12.60	3.12	10.14	0.66	1.16	20.97	125	20.31
Mid	2441.0	-12.60	3.13	10.14	0.67	1.17	20.97	125	20.30
High	2480.0	-12.70	3.14	10.14	0.58	1.14	20.97	125	20.39
Inquiry	2441.0	-12.62	3.13	10.14	0.65	1.16	20.97	125	20.32

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer)+ Attenuator

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

Radiated Spurious Emission (below 1GHz)
Ch:Low

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

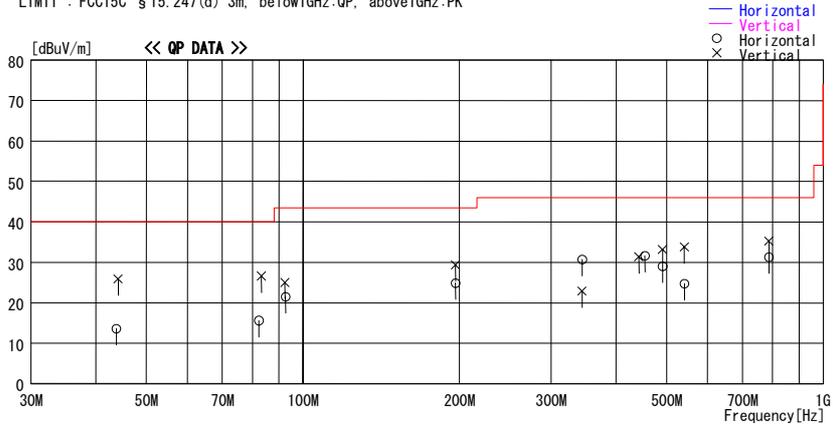
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
Date : 2006/12/17 11:00:21

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-HX7
Serial No. : 11
Report No. : 27EE0055-H0
Power : AC 120V / 60Hz
Temp./Humi. : 22deg. C / 45%
Operator : Motoya Imura

Mode / Remarks : Transmitting 2402MHz

LIMIT : FCC15C § 15.247 (d) 3m, below1GHz:QP, above1GHz:PK



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss & Gain [dB]						
43.770	23.4	QP	12.3	-22.1	13.6	359	297	Hori.	40.0	26.4
44.156	35.9	QP	12.1	-22.1	25.9	123	100	Vert.	40.0	14.1
82.300	30.1	QP	6.9	-21.4	15.6	359	297	Hori.	40.0	24.4
83.200	41.0	QP	7.0	-21.4	26.6	23	111	Vert.	40.0	13.4
92.340	38.2	QP	8.1	-21.3	25.0	291	100	Vert.	43.5	18.5
92.640	34.6	QP	8.2	-21.3	21.5	359	297	Hori.	43.5	22.0
196.445	27.9	QP	17.2	-20.2	24.9	359	297	Hori.	43.5	18.6
196.445	32.4	QP	17.2	-20.2	29.4	211	113	Vert.	43.5	14.1
344.057	26.3	QP	16.1	-19.5	22.9	184	203	Vert.	46.0	23.1
344.082	34.1	QP	16.1	-19.5	30.7	48	100	Hori.	46.0	15.3
442.371	33.1	QP	18.2	-19.9	31.4	42	118	Vert.	46.0	14.6
454.661	33.4	QP	18.2	-20.0	31.6	87	100	Hori.	46.0	14.4
491.512	30.6	QP	18.5	-20.1	29.0	106	227	Hori.	46.0	17.0
491.522	34.8	QP	18.5	-20.1	33.2	0	100	Vert.	46.0	12.8
540.671	34.8	QP	18.9	-19.9	33.8	0	100	Vert.	46.0	12.2
541.074	25.7	QP	18.9	-19.9	24.7	304	100	Hori.	46.0	21.3
786.425	27.8	QP	21.8	-18.3	31.3	180	100	Hori.	46.0	14.7
786.437	31.8	QP	21.8	-18.3	35.3	348	157	Vert.	46.0	10.7

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN

Radiated Spurious Emission (below 1GHz)
Ch:Mid

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

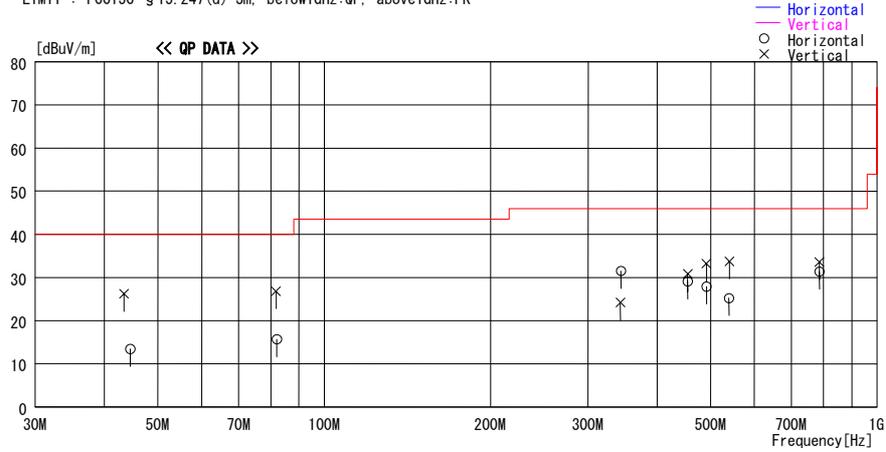
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
Date : 2006/12/17 12:09:49

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-HX7
Serial No. : 11
Report No. : 27EE0055-H0
Power : AC 120V / 60Hz
Temp./Humi. : 22deg. C / 45%
Operator : Motoya Imura

Mode / Remarks : Transmitting 2441MHz

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
44.580	23.5	QP	12.0	-22.1	13.4	17	295	Hori.	40.0	26.6
43.410	35.9	QP	12.4	-22.1	26.2	285	100	Vert.	40.0	13.8
82.070	30.2	QP	6.9	-21.4	15.7	110	299	Hori.	40.0	24.3
81.750	41.4	QP	6.8	-21.4	26.8	168	100	Vert.	40.0	13.2
344.061	34.9	QP	16.1	-19.5	31.5	41	100	Hori.	46.0	14.5
343.401	27.6	QP	16.1	-19.5	24.2	149	172	Vert.	46.0	21.8
454.560	30.9	QP	18.2	-20.0	29.1	107	100	Hori.	46.0	16.9
454.659	32.6	QP	18.2	-20.0	30.8	104	148	Vert.	46.0	15.2
491.523	29.5	QP	18.5	-20.1	27.9	124	100	Hori.	46.0	18.1
491.516	34.8	QP	18.5	-20.1	33.2	0	100	Vert.	46.0	12.8
540.104	26.2	QP	18.9	-19.9	25.2	7	100	Hori.	46.0	20.8
540.667	34.7	QP	18.9	-19.9	33.7	2	100	Vert.	46.0	12.3
786.428	30.1	QP	21.8	-18.3	33.6	348	100	Vert.	46.0	12.4
787.209	27.9	QP	21.8	-18.3	31.4	359	176	Hori.	46.0	14.6

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN

Radiated Spurious Emission (below 1GHz)
Ch:High

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

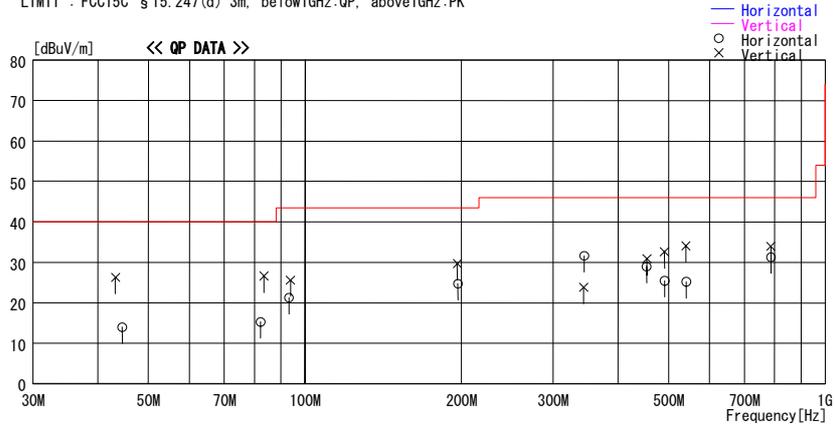
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
Date : 2006/12/17 12:47:46

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-HX7
Serial No. : 11
Report No. : 27EE0055-H0
Power : AC 120V / 60Hz
Temp./Humi. : 22deg. C / 45%
Operator : Motoya Imura

Mode / Remarks : Transmitting 2480MHz

LIMIT : FCC15C § 15.247 (d) 3m, below1GHz:QP, above1GHz:PK



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss & Gain [dB]						
43.213	35.9	QP	12.5	-22.1	26.3	0	100	Vert.	40.0	13.7
44.580	24.1	QP	12.0	-22.1	14.0	112	287	Hori.	40.0	26.0
82.120	29.8	QP	6.9	-21.4	15.3	291	234	Hori.	40.0	24.7
83.420	41.0	QP	7.0	-21.4	26.6	76	100	Vert.	40.0	13.4
93.180	34.2	QP	8.4	-21.3	21.3	109	278	Hori.	43.5	22.2
93.816	38.4	QP	8.5	-21.3	25.6	82	100	Vert.	43.5	17.9
196.210	32.7	QP	17.2	-20.2	29.7	12	100	Vert.	43.5	13.8
196.860	27.6	QP	17.3	-20.2	24.7	221	221	Hori.	43.5	18.8
343.401	27.2	QP	16.1	-19.5	23.8	164	180	Vert.	46.0	22.2
344.058	35.0	QP	16.1	-19.5	31.6	359	100	Hori.	46.0	14.4
454.003	30.7	QP	18.2	-20.0	28.9	98	100	Hori.	46.0	17.1
454.566	32.7	QP	18.2	-20.0	30.9	0	148	Vert.	46.0	15.1
491.103	34.2	QP	18.5	-20.1	32.6	348	100	Vert.	46.0	13.4
491.523	27.1	QP	18.5	-20.1	25.5	359	100	Hori.	46.0	20.5
540.104	35.1	QP	18.9	-19.9	34.1	0	100	Vert.	46.0	11.9
540.804	26.2	QP	18.9	-19.9	25.2	19	100	Hori.	46.0	20.8
786.426	30.5	QP	21.8	-18.3	34.0	4	100	Vert.	46.0	12.0
787.209	27.8	QP	21.8	-18.3	31.3	12	172	Hori.	46.0	14.7

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN

Radiated Spurious Emission (above 1GHz)
Ch:Low

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Sony EMCS Corporation Saitama TEC REPORT NO : 27EE0055-HO
Equipment : Compact Disc Receiver REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : HCD-HX7 TEST DISTANCE : 3/1m
Sample No. : 11 DATE : 12/09/2006
Power : AC 120 V / 60 Hz TEMPERATURE : 23deg.C
Mode : Bluetooth, Tx 2402MHz HUMIDITY : 36%
Remarks : Normal-axis ENGINEER : Shinya Watanabe

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1602.0	53.1	53.3	25.1	33.7	1.8	0.0	46.3	46.5	74.0	27.7	27.5
2	2386.0	46.8	50.6	26.6	32.7	2.1	0.0	42.8	46.6	74.0	31.2	27.4
3	2390.0	43.8	46.3	26.6	32.7	2.1	0.0	39.8	42.3	74.0	34.2	31.7
4*	2400.0	71.3	77.0	26.6	32.7	2.1	0.0	67.3	73.0	74.0	-	-
5	3203.9	44.7	45.2	27.8	32.2	2.5	0.0	42.8	43.3	74.0	31.2	30.7
6	4804.0	42.6	42.7	30.8	31.5	3.2	1.4	46.5	46.6	74.0	27.5	27.4
7	7206.0	NS	NS	35.2	32.4	3.9	1.2	-	-	74.0	-	-
8	9608.0	NS	NS	37.6	33.0	4.8	1.0	-	-	74.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	12010.0	NS	NS	38.5	32.6	5.7	0.0	-	-	74.0	-	-
10	14412.0	NS	NS	40.1	32.3	6.1	0.0	-	-	74.0	-	-
11	16814.0	NS	NS	39.0	32.1	6.5	0.0	-	-	74.0	-	-
12	19216.0	NS	NS	39.0	31.4	6.8	0.0	-	-	74.0	-	-
13	21618.0	NS	NS	39.3	32.1	7.4	0.0	-	-	74.0	-	-
14	24020.0	47.0	46.9	39.1	31.9	7.9	0.0	52.6	52.5	74.0	21.4	21.5

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1602.0	50.8	50.6	25.1	33.7	1.8	0.0	44.0	43.8	54.0	10.0	10.2
2	2386.0	37.7	42.7	26.6	32.7	2.1	0.0	33.7	38.7	54.0	20.3	15.3
3	2390.0	32.1	33.1	26.6	32.7	2.1	0.0	28.1	29.1	54.0	25.9	24.9
4*	2400.0	60.1	65.3	26.6	32.7	2.1	0.0	56.1	61.3	54.0	-	-
5	3203.9	35.7	36.8	27.8	32.2	2.5	0.0	33.8	34.9	54.0	20.2	19.1
6	4804.0	31.2	31.5	30.8	31.5	3.2	1.4	35.1	35.4	54.0	18.9	18.6
7	7206.0	NS	NS	35.2	32.4	3.9	1.2	-	-	54.0	-	-
8	9608.0	NS	NS	37.6	33.0	4.8	1.0	-	-	54.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	12010.0	NS	NS	38.5	32.6	5.7	0.0	-	-	54.0	-	-
10	14412.0	NS	NS	40.1	32.3	6.1	0.0	-	-	54.0	-	-
11	16814.0	NS	NS	39.0	32.1	6.5	0.0	-	-	54.0	-	-
12	19216.0	NS	NS	39.0	31.4	6.8	0.0	-	-	54.0	-	-
13	21618.0	NS	NS	39.3	32.1	7.4	0.0	-	-	54.0	-	-
14	24020.0	33.1	33.1	39.1	31.9	7.9	0.0	38.7	38.7	54.0	15.3	15.3

* Reference data

20dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2402.0	96.0	101.6	26.6	32.7	2.1	0.0	92.0	97.6	-	-	-
4	2400.0	44.7	49.7	26.6	32.7	2.1	0.0	40.7	45.7	Funda-20dB	31.3	31.9

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*NS: NonSignal

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the third harmonic, the noise from the EUT was not seen. The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission (above 1GHz)
Ch:Mid

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 27EE0055-HO
Equipment	: Compact Disc Receiver	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: HCD-HX7	TEST DISTANCE	: 3/1m
Sample No.	: 11	DATE	: 12/09/2006
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 23deg.C
Mode	: Bluetooth, Tx 2441MHz	HUMIDITY	: 36%
Remarks	: Normal-axis	ENGINEER	: Shinya Watanabe

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	51.3	57.1	25.2	33.6	1.8	0.0	44.7	50.5	74.0	29.3	23.5
2	3256.0	43.3	46.6	27.9	32.2	2.5	0.0	41.5	44.8	74.0	32.5	29.2
2	4882.0	42.7	42.9	31.0	31.5	3.2	1.4	46.8	47.0	74.0	27.2	27.0
3	7323.0	NS	NS	35.4	32.5	3.9	1.1	-	-	74.0	-	-
4	9764.0	NS	NS	37.6	33.1	4.9	1.1	-	-	74.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	NS	NS	38.5	32.5	5.7	0.0	-	-	74.0	-	-
6	14646.0	NS	NS	40.1	32.3	6.1	0.0	-	-	74.0	-	-
7	17087.0	NS	NS	40.0	31.9	6.6	0.0	-	-	74.0	-	-
8	19528.0	NS	NS	39.1	31.5	6.8	0.0	-	-	74.0	-	-
9	21969.0	NS	NS	39.5	32.0	7.5	0.0	-	-	74.0	-	-
10	24410.0	45.3	46.9	39.1	31.7	8.0	0.0	51.2	52.8	74.0	22.8	21.2

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	48.0	54.9	25.2	33.6	1.8	0.0	41.4	48.3	54.0	12.6	5.7
2	3256.0	33.1	38.3	27.9	32.2	2.5	0.0	31.3	36.5	54.0	22.7	17.5
2	4882.0	32.0	31.1	31.0	31.5	3.2	1.4	36.1	35.2	54.0	17.9	18.8
3	7323.0	NS	NS	35.4	32.5	3.9	1.1	-	-	54.0	-	-
4	9764.0	NS	NS	37.6	33.1	4.9	1.1	-	-	54.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	NS	NS	38.5	32.5	5.7	0.0	-	-	54.0	-	-
6	14646.0	NS	NS	40.1	32.3	6.1	0.0	-	-	54.0	-	-
7	17087.0	NS	NS	40.0	31.9	6.6	0.0	-	-	54.0	-	-
8	19528.0	NS	NS	39.1	31.5	6.8	0.0	-	-	54.0	-	-
9	21969.0	NS	NS	39.5	32.0	7.5	0.0	-	-	54.0	-	-
10	24410.0	33.1	33.1	39.1	31.7	8.0	0.0	39.0	39.0	54.0	15.0	15.0

NS: Non Signal

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the third harmonic, the noise from the EUT was not seen. The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission (above 1GHz)
Ch:High

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 27EE0055-HO
Equipment	: Compact Disc Receiver	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: HCD-HX7	TEST DISTANCE	: 3/1m
Sample No.	: 11	DATE	: 12/09/2006
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 23deg.C
Mode	: Bluetooth, Tx 2480MHz	HUMIDITY	: 36%
Remarks	: Normal-axis	ENGINEER	: Shinya Watanabe

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1654.0	51.9	57.0	25.2	33.6	1.8	0.0	45.3	50.4	74.0	28.7	23.6
2	2483.5	52.2	59.9	26.8	32.6	2.2	0.0	48.6	56.3	74.0	25.4	17.7
3	3308.0	45.8	46.7	27.9	32.1	2.6	0.0	44.2	45.1	74.0	29.8	28.9
4	4960.0	43.0	43.2	31.1	31.5	3.2	1.4	47.2	47.4	74.0	26.8	26.6
5	7440.0	NS	NS	35.6	32.5	4.0	1.1	-	-	74.0	-	-
6	9920.0	NS	NS	37.7	33.1	4.9	1.2	-	-	74.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12400.0	NS	NS	38.6	32.5	5.8	0.0	-	-	74.0	-	-
8	14880.0	NS	NS	40.0	32.3	6.2	0.0	-	-	74.0	-	-
9	17360.0	NS	NS	42.0	31.9	6.6	0.0	-	-	74.0	-	-
10	19840.0	NS	NS	39.1	31.5	6.8	0.0	-	-	74.0	-	-
11	22320.0	NS	NS	39.5	32.0	7.6	0.0	-	-	74.0	-	-
12	24800.0	45.8	46.6	39.3	31.4	8.1	0.0	52.3	53.1	74.0	21.7	20.9

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1654.0	49.0	55.4	25.2	33.6	1.8	0.0	42.4	48.8	54.0	11.6	5.2
2	2483.5	44.7	53.5	26.8	32.6	2.2	0.0	41.1	49.9	54.0	12.9	4.1
3	3308.0	37.9	39.0	27.9	32.1	2.6	0.0	36.3	37.4	54.0	17.7	16.6
4	4960.0	31.4	33.2	31.1	31.5	3.2	1.4	35.6	37.4	54.0	18.4	16.6
5	7440.0	NS	NS	35.6	32.5	4.0	1.1	-	-	54.0	-	-
6	9920.0	NS	NS	37.7	33.1	4.9	1.2	-	-	54.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12400.0	NS	NS	38.6	32.5	5.8	0.0	-	-	54.0	-	-
8	14880.0	NS	NS	40.0	32.3	6.2	0.0	-	-	54.0	-	-
9	17360.0	NS	NS	42.0	31.9	6.6	0.0	-	-	54.0	-	-
10	19840.0	NS	NS	39.1	31.5	6.8	0.0	-	-	54.0	-	-
11	22320.0	NS	NS	39.5	32.0	7.6	0.0	-	-	54.0	-	-
12	24800.0	33.2	33.2	39.3	31.4	8.1	0.0	39.7	39.7	54.0	14.3	14.3

NS: Non Signal

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

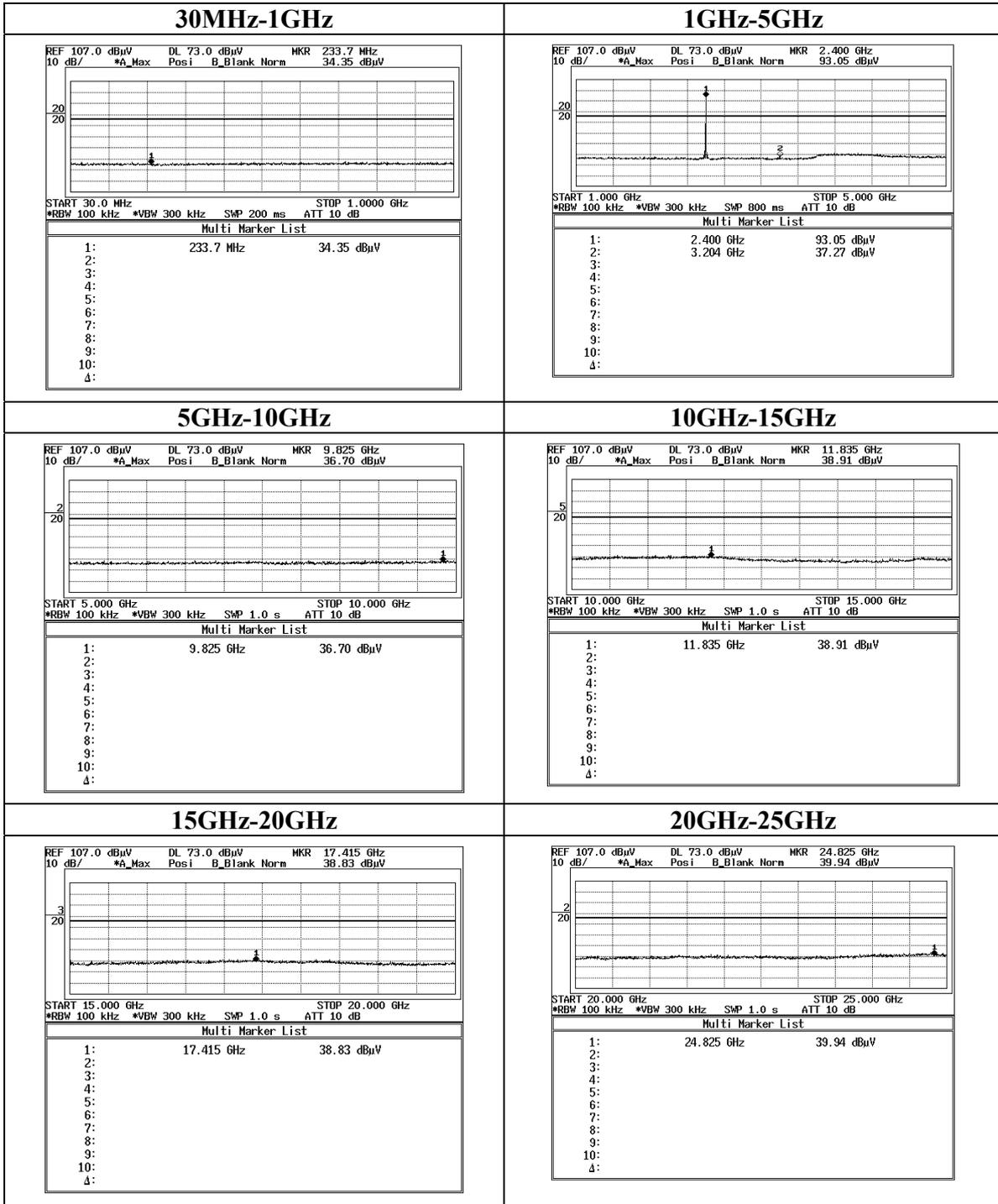
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the third harmonic, the noise from the EUT was not seen. The data above is its base noise.

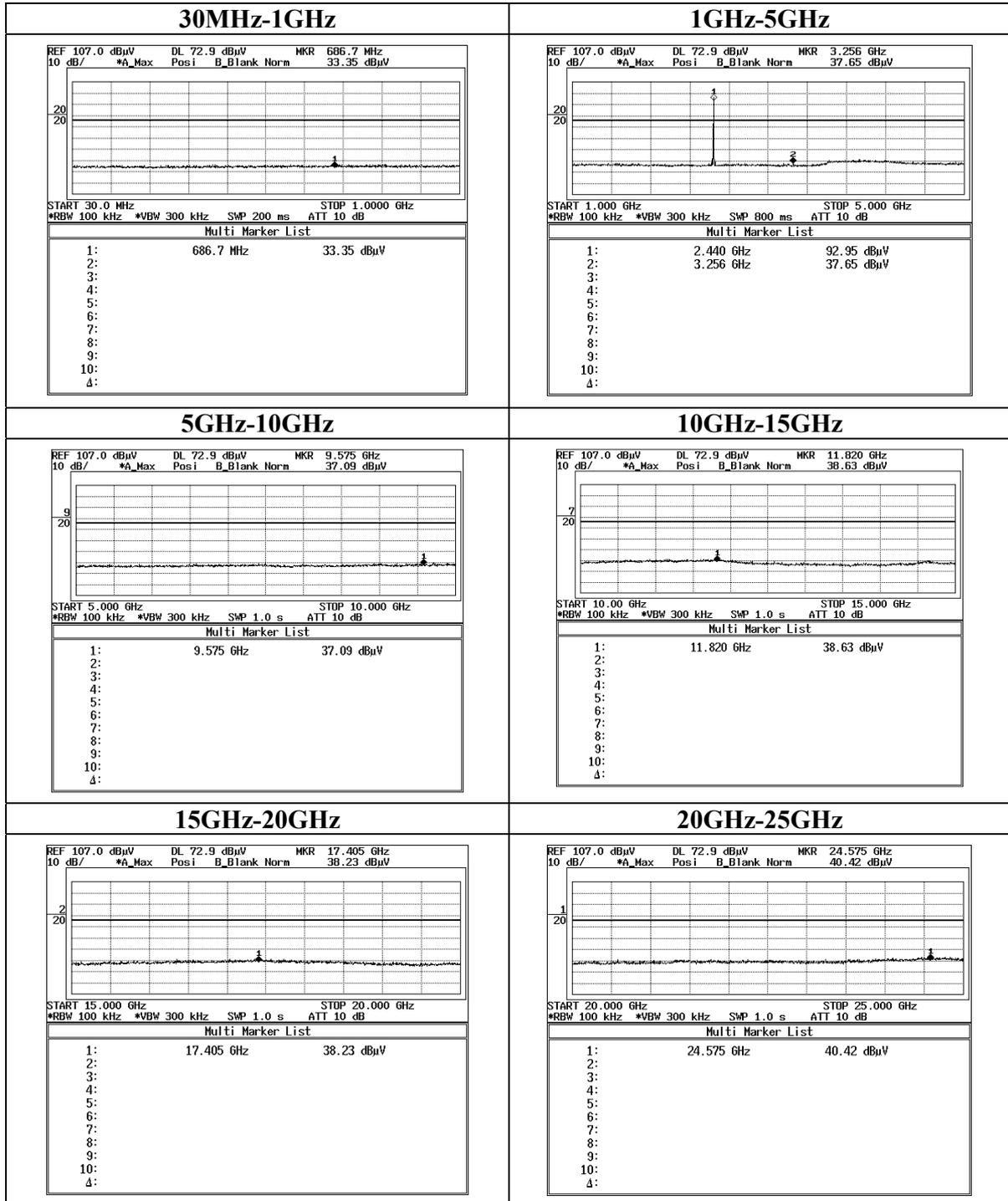
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

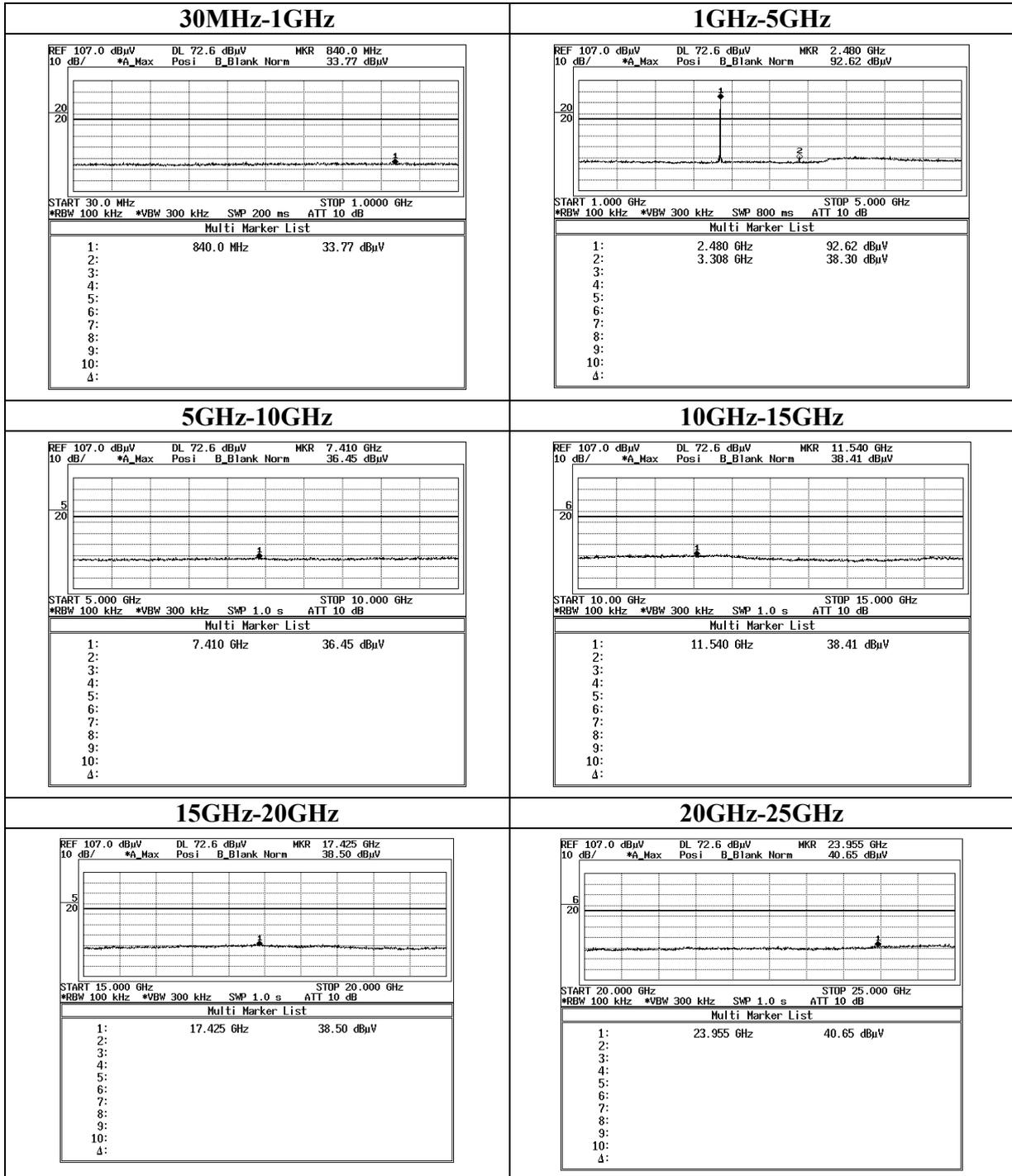
Conducted Spurious Emission
Ch:Low



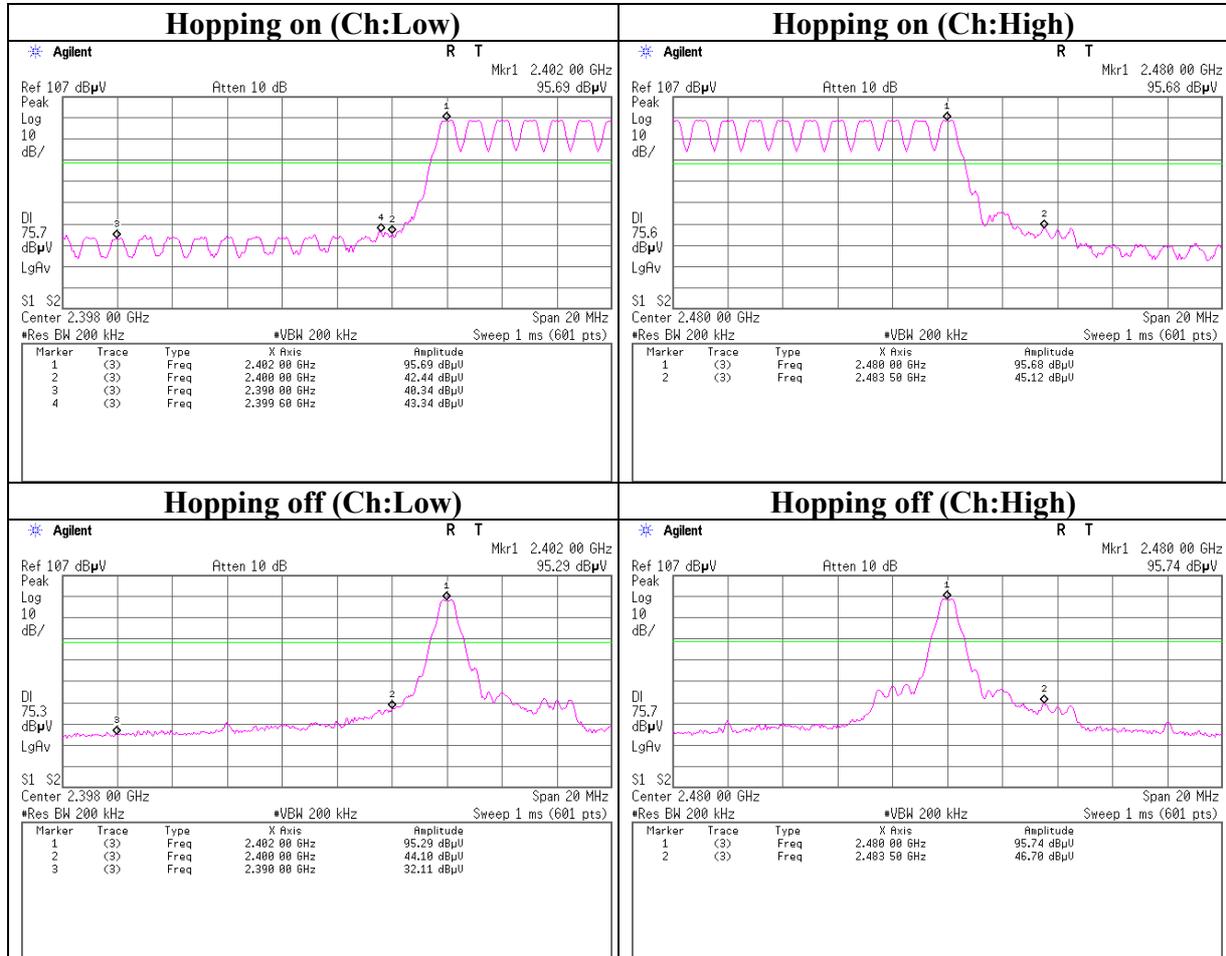
Conducted Spurious Emission
Ch:Mid



Conducted Spurious Emission
Ch:High



Conducted Spurious Emission Band Edge compliance



APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/03/06 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	RE/CE	2006/05/20 * 12
MCC-57	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/08/17 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MHF-05	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2006/01/24 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MJM-07	Measure	PROMART	SEN1955	RE	-
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/01/29 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2006/01/29 * 12
MPA-14	Pre Amplifier	SONOA INSTRUMENT	310	RE/CE	2006/03/25 * 12
MCC-50	Coaxial cable	UL Apex	-	RE	2006/03/09 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	AT	2006/12/08 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MCC-22	Microwave Cable 1G-40GHz	Storm	421-011 (90-011-080)	AT	2006/05/12 * 12
MCC-35	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	AT	2006/11/13 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	CE	2006/04/10 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2006/02/06 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2006/02/23 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	CE	2006/11/27 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2006/09/13 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	CE	2006/03/04 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2006/02/23 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 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.

Test Item: CE: Conducted emission,
RE: Radiated emission,
AT: Antenna Terminal Conducted test

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MF060b(14.06.06)