

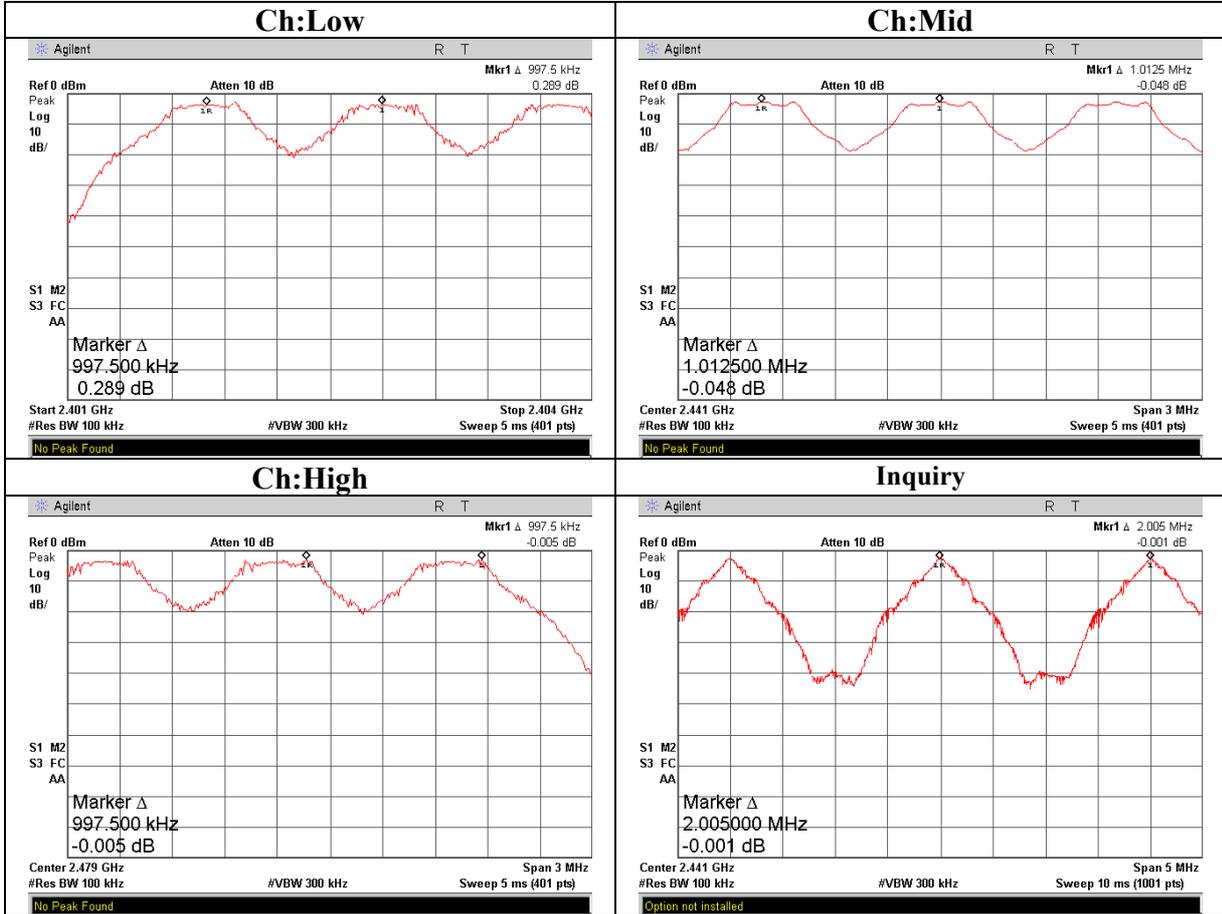
APPENDIX 2: Data of EMI test

Carrier Frequency Separation

Company : Sony EMCS Corporation Saitama TEC Equipment : Bluetooth Audio System Model : MEX-BT2500 S/N : 15 Power : DC 12V Mode : Bluetooth Tx Hopping On / Inquiry	UL-Apex Co., Ltd. Head Office EMC Lab. No.6 Shielded room Regulation : FCC 15.247(a)(1) / RSS-210 A8.1(2) Test Distance : - Date : 12/18/2006 Temperature : 23 deg.C. Humidity : 39 % Engineer : Kenichi Adachi
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Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	0.998	0.624 [MHz] (two-thirds of 20dB Bandwidth (0.936 [MHz])) or 25[kHz] (whichever is grater)
Mid	2441.0	1.013	0.628 [MHz] (two-thirds of 20dB Bandwidth (0.942 [MHz])) or 25[kHz] (whichever is grater)
High	2480.0	0.998	0.619 [MHz] (two-thirds of 20dB Bandwidth (0.929 [MHz])) or 25[kHz] (whichever is grater)
Inquiry	2441.0	2.005	0.537 [MHz] (two-thirds of 20dB Bandwidth (0.806 [MHz])) or 25[kHz] (whichever is grater)

Carrier Frequency Separation



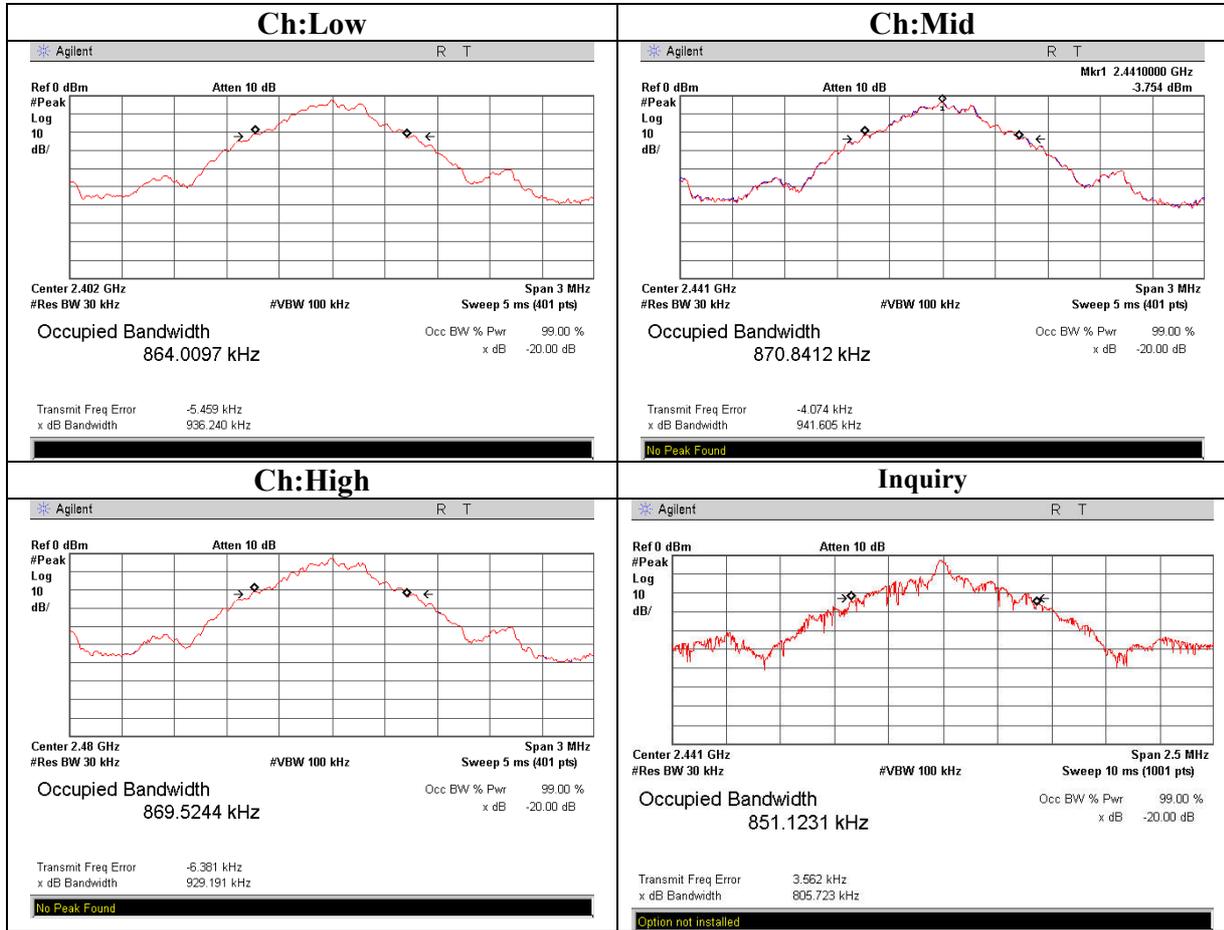
20dB Bandwidth

Company : Sony EMCS Corporation Saitama TEC
Equipment : Bluetooth Audio System
Model : MEX-BT2500
S/N : 15
Power : DC 12V
Mode : Bluetooth Tx Hopping off / Inquiry

UL-Apex Co.,Ltd.
Head Office EMC Lab. No.6 Shielded room
Regulation : FCC 15.247(a)(1) / RSS-210 A8.1(1)
Test Distance : -
Date : 12/18/2006
Temperature : 23 deg.C.
Humidity : 39 %
Engineer : Kenichi Adachi

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.936	-
Mid	2441.0	0.942	-
High	2480.0	0.929	-
Inquiry	2441.0	0.806	-

20dB Bandwidth



Number of Hopping Frequency

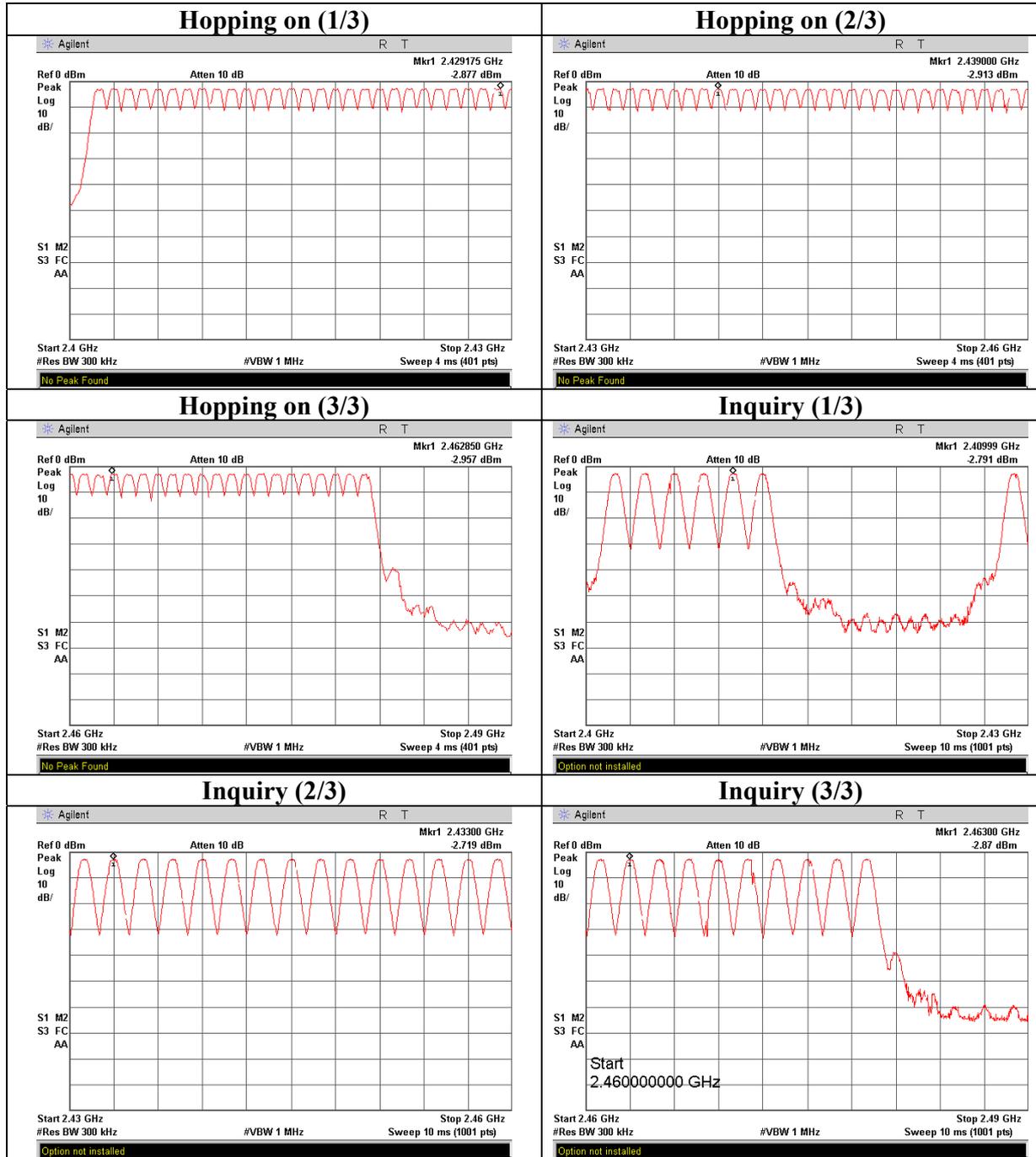
Company : Sony EMCS Corporation Saitama TEC
Equipment : Bluetooth Audio System
Model : MEX-BT2500
S/N : 15
Power : DC 12V
Mode : Bluetooth Tx Hopping On / Inquiry

UL-Apex Co.,Ltd.
Head Office EMC Lab. No.6 Shielded room
Regulation : FCC 15.247(a)(1)(iii) / RSS-210 A8.1(4)
Test Distance : -
Date : 12/18/2006
Temperature : 23 deg.C.
Humidity : 39 %
Engineer : Kenichi Adachi

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

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

Number of Hopping Frequency

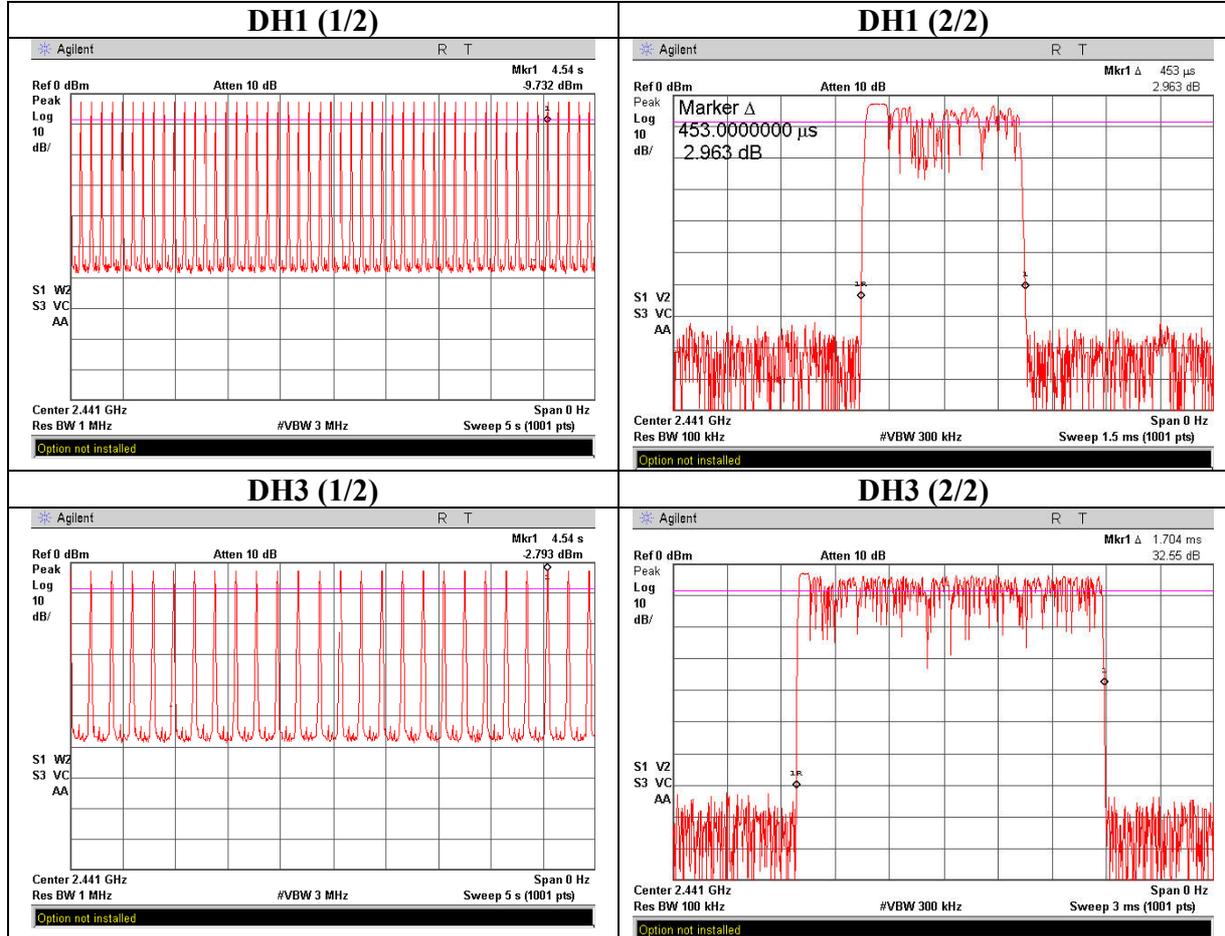


Dwell time

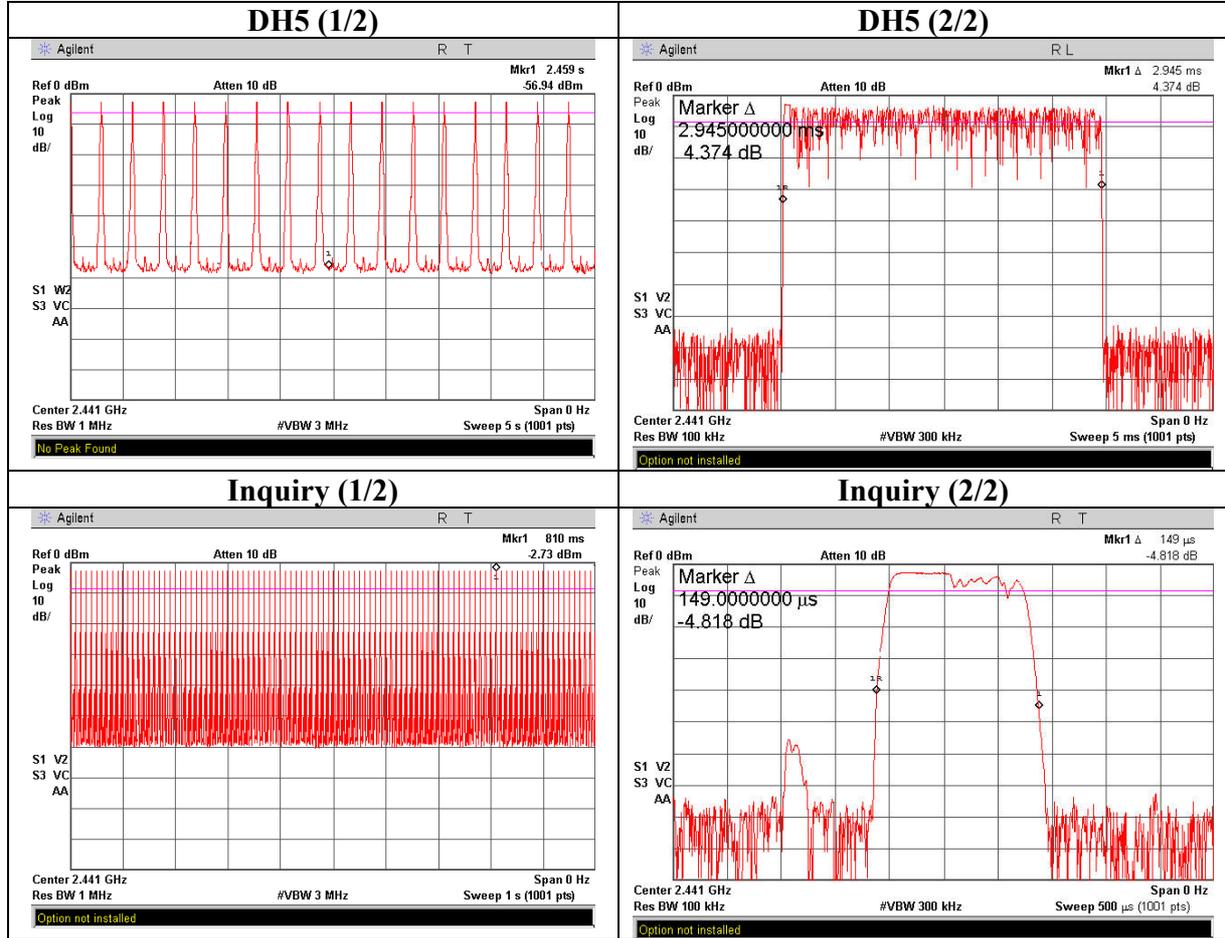
Company : Sony EMCS Corporation Saitama TEC Equipment : Bluetooth Audio System Model : MEX-BT2500 S/N : 15 Power : DC 12V Mode : Bluetooth Tx Hopping On / Inquiry	UL-Apex Co.,Ltd. Head Office EMC Lab. No.6 Shielded room Regulation : FCC 15.247(a)(1)(iii) / RSS-210 A8.1(4) Test Distance : - Date : 12/18/2006 Temperature : 23 deg.C. Humidity : 39 % Engineer : Kenichi Adachi
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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	0.453	146	400
DH3	26 times / 5 sec. x 31.6 sec. = 165 times	1.704	281	400
DH5	17 times / 5 sec. x 31.6 sec. = 108 times	2.945	318	400
Inquiry	100 times / 1 sec. x 12.8 sec. = 1280 times	0.149	191	400

Dwell time



Dwell time



Maximum Peak Output Power

	UL-Apex Co.,Ltd.
Company : Sony EMCS Corporation Saitama TEC	Head Office EMC Lab. No.6 Shielded room
Equipment : Bluetooth Audio System	Regulation : FCC 15.247(b)(1) / RSS-210 A8.4 (2)
Model : MEX-BT2500	Test Distance : -
S/N : 15	Date : 12/18/2006
Power : DC 12V	Temperature : 23 deg.C.
Mode : Bluetooth Tx Hopping off / Inquiry	Humidity : 39 %
	Engineer : Kenichi Adachi

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-2.69	2.25	0.00	-0.44	0.90	20.97	125	21.41
Mid	2441.0	-2.66	2.25	0.00	-0.41	0.91	20.97	125	21.38
High	2480.0	-2.68	2.25	0.00	-0.43	0.91	20.97	125	21.40
Inquiry	2441.0	-2.65	2.25	0.00	-0.40	0.91	20.97	125	21.37

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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

* The limit is rounded down to one decimal place.

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

UL Apex Co., Ltd.

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MF060b(14.06.06)

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

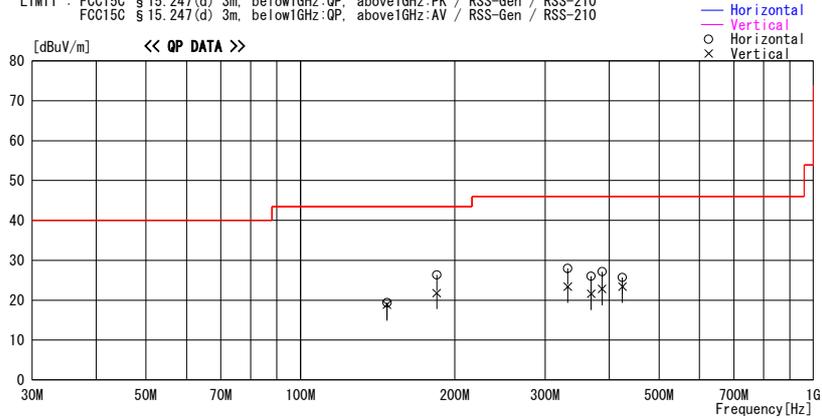
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2006/12/22 00:29:49

Company : Sony EMCS Corporation Saitama TEC Report No. : 27EE0138-HO
 Kind of EUT : Bluetooth Audio System Power : DC12V
 Model No. : MEX-BT2500 Temp./Humi. : 24deg.C. / 30%
 Serial No. : T5 Operator : Yutaka Yoshida

Mode / Remarks : Bluetooth Continuous Tx 2402MHz, DH5, PRBS9 / Position: Normal

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK / RSS-Gen / RSS-210
 FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:AV / RSS-Gen / RSS-210



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
147.576	25.5	QP	14.5	-20.6	19.4	358	300	Hori.	43.5	24.1	
147.576	25.0	QP	14.5	-20.6	18.9	135	100	Vert.	43.5	24.6	
184.471	30.0	QP	16.7	-20.3	26.4	126	100	Hori.	43.5	17.1	
184.471	25.4	QP	16.7	-20.3	21.8	316	100	Vert.	43.5	21.7	
332.049	31.6	QP	15.7	-19.4	27.9	243	100	Hori.	46.0	18.1	
332.049	27.1	QP	15.7	-19.4	23.4	174	145	Vert.	46.0	22.6	
368.948	24.4	QP	16.9	-19.7	21.6	159	127	Vert.	46.0	24.4	
368.948	28.8	QP	16.9	-19.7	26.0	240	100	Hori.	46.0	20.0	
387.393	25.1	QP	17.5	-19.8	22.8	179	100	Vert.	46.0	23.2	
387.393	29.5	QP	17.5	-19.8	27.2	249	100	Hori.	46.0	18.8	
424.289	27.5	QP	18.1	-19.9	25.7	143	100	Hori.	46.0	20.3	
424.289	25.2	QP	18.1	-19.9	23.4	223	100	Vert.	46.0	22.6	

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 limit is rounded down to one decimal place.
- * The test result is round off to one or two decimal places, so some difference might be observed.

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

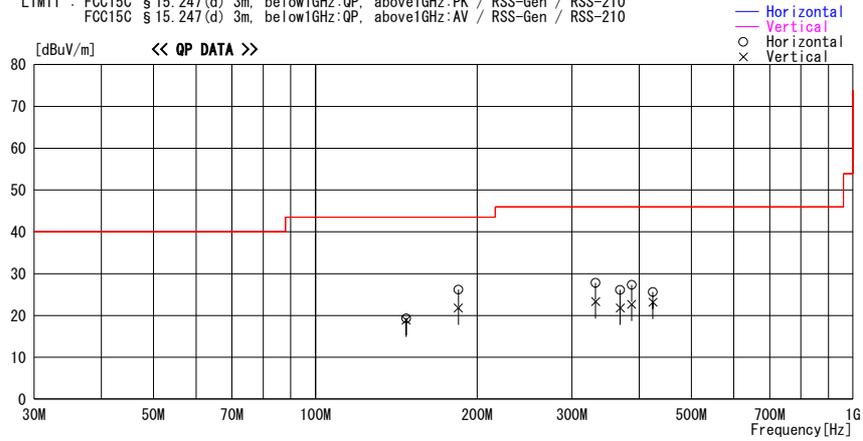
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
Date : 2006/12/22 01:23:30

Company : Sony EMCS Corporation Saitama TEC Report No. : 27EE0138-HO
Kind of EUT : Bluetooth Audio System Power : DC12V
Model No. : MEX-BT2500 Temp./Humi. : 24deg. C. / 30%
Serial No. : 15 Operator : Yutaka Yoshida

Mode / Remarks : Bluetooth Continuous Tx 2441MHz, DH5, PRBS9 / Position: Normal

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK / RSS-Gen / RSS-210
FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:AV / RSS-Gen / RSS-210



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
147.576	25.4	QP	14.5	-20.6	19.3	359	100	Hori.	43.5	24.2	
147.576	25.0	QP	14.5	-20.6	18.9	133	100	Vert.	43.5	24.6	
184.471	29.8	QP	16.7	-20.3	26.2	127	100	Hori.	43.5	17.3	
184.471	25.4	QP	16.7	-20.3	21.8	320	100	Vert.	43.5	21.7	
332.049	31.5	QP	15.7	-19.4	27.8	233	100	Hori.	46.0	18.2	
332.049	27.0	QP	15.7	-19.4	23.3	165	139	Vert.	46.0	22.7	
368.948	28.9	QP	16.9	-19.7	26.1	238	100	Hori.	46.0	19.9	
368.948	24.6	QP	16.9	-19.7	21.8	160	131	Vert.	46.0	24.2	
387.393	29.6	QP	17.5	-19.8	27.3	256	100	Hori.	46.0	18.7	
387.393	25.0	QP	17.5	-19.8	22.7	181	100	Vert.	46.0	23.3	
424.289	27.4	QP	18.1	-19.9	25.6	143	100	Hori.	46.0	20.4	
424.289	25.0	QP	18.1	-19.9	23.2	220	100	Vert.	46.0	22.8	

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 limit is rounded down to one decimal place.
* The test result is round off to one or two decimal places, so some difference might be observed.

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

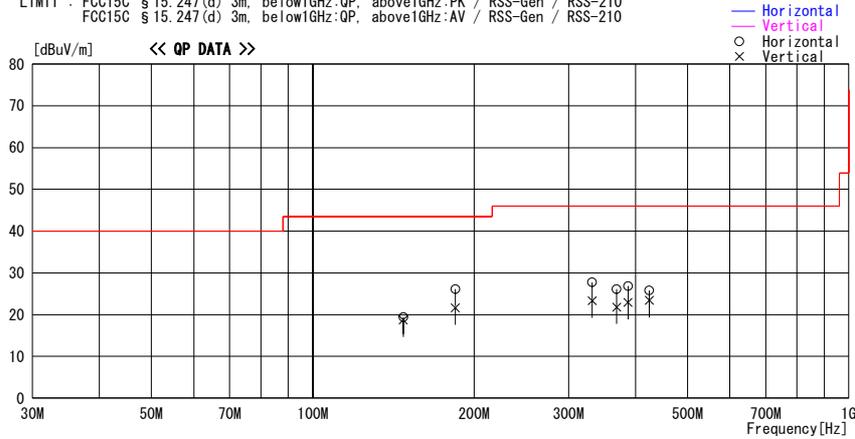
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/22 01:56:43

Company : Sony EMCS Corporation Saitama TEC Report No. : 27EE0138-H0
Kind of EUT : Bluetooth Audio System Power : DC12V
Model No. : MEX-BT2500 Temp./Humi. : 24deg. C. / 30%
Serial No. : 15 Operator : Yutaka Yoshida

Mode / Remarks : Bluetooth Continuous Tx 2480MHz, DH5, PRBS9 / Position: Normal

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK / RSS-Gen / RSS-210
FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:AV / RSS-Gen / RSS-210



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
147.576	25.5	QP	14.5	-20.6	19.4	0	100	Hori.	43.5	24.1	
147.576	24.8	QP	14.5	-20.6	18.7	137	100	Vert.	43.5	24.8	
184.471	29.7	QP	16.7	-20.3	26.1	129	100	Hori.	43.5	17.4	
184.471	25.2	QP	16.7	-20.3	21.6	320	100	Vert.	43.5	21.9	
332.049	31.4	QP	15.7	-19.4	27.7	240	100	Hori.	46.0	18.3	
332.049	27.0	QP	15.7	-19.4	23.3	178	136	Vert.	46.0	22.7	
368.948	24.6	QP	16.9	-19.7	21.8	163	129	Vert.	46.0	24.2	
368.948	28.9	QP	16.9	-19.7	26.1	240	100	Hori.	46.0	19.9	
387.393	25.2	QP	17.5	-19.8	22.9	178	100	Vert.	46.0	23.1	
387.393	29.1	QP	17.5	-19.8	26.8	251	100	Hori.	46.0	19.2	
424.289	27.6	QP	18.1	-19.9	25.8	144	100	Hori.	46.0	20.2	
424.289	25.2	QP	18.1	-19.9	23.4	220	100	Vert.	46.0	22.6	

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 limit is rounded down to one decimal place.
- * The test result is round off to one or two decimal places, so some difference might be observed.

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

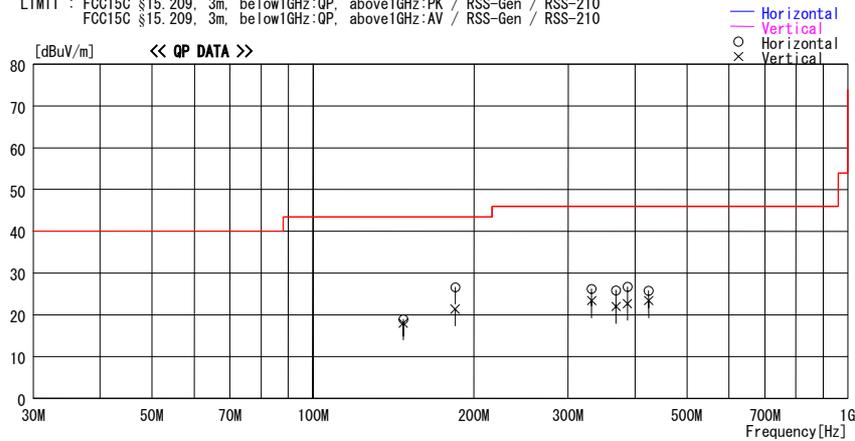
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
 Date : 2006/12/22 03:08:02

Company : Sony EMCS Corporation Saitama TEC Report No. : 27EE0138-HO
 Kind of EUT : Bluetooth Audio System Power : DC12V
 Model No. : MEX-BT2500 Temp./Humi. : 24deg. C. / 30%
 Serial No. : 15 Operator : Yutaka Yoshida

Mode / Remarks : Bluetooth Continuous Rx 2441MHz / Position: Normal

LIMIT : FCC15C §15.209, 3m, below1GHz:QP, above1GHz:PK / RSS-Gen / RSS-210
 FCC15C §15.209, 3m, below1GHz:QP, above1GHz:AV / RSS-Gen / RSS-210



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
147.576	25.0	QP	14.5	-20.6	18.9	0	100	Hori.	43.5	24.6	
147.576	24.1	QP	14.5	-20.6	18.0	135	100	Vert.	43.5	25.5	
184.471	30.2	QP	16.7	-20.3	26.6	130	100	Hori.	43.5	16.9	
184.471	25.0	QP	16.7	-20.3	21.4	333	100	Vert.	43.5	22.1	
332.049	29.9	QP	15.7	-19.4	26.2	241	100	Hori.	46.0	19.8	
332.049	27.1	QP	15.7	-19.4	23.4	180	136	Vert.	46.0	22.6	
368.948	24.8	QP	16.9	-19.7	22.0	166	129	Vert.	46.0	24.0	
368.948	28.7	QP	16.9	-19.7	25.9	240	100	Hori.	46.0	20.1	
387.393	25.0	QP	17.5	-19.8	22.7	180	100	Vert.	46.0	23.3	
387.393	29.0	QP	17.5	-19.8	26.7	249	100	Hori.	46.0	19.3	
424.289	27.6	QP	18.1	-19.9	25.8	144	100	Hori.	46.0	20.2	
424.289	25.2	QP	18.1	-19.9	23.4	222	100	Vert.	46.0	22.6	

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 limit is rounded down to one decimal place.
- * The test result is round off to one or two decimal places, so some difference might be observed.

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

Company : Sony EMCS Corporation Saitama TEC
Equipment : Bluetooth Audio System
Model : MEX-BT2500
S/N : 15
Power : DC12V
Mode : Bluetooth Tx 2402MHz (PRBS9, DH5(Worst))
EUT-Axis : Normal

UL-Apex Co.,Ltd.
Head Office EMC Lab. No.2 Anechoic Chamber
Regulation : FCC 15.247(d) / RSS-210 A8.5
Test Distance : 3m (below 10GHz), 1m (above 10GHz)
Date : 12/21/2006
Temperature : 24 deg.C.
Humidity : 30 %
Engineer : Yutaka Yoshida

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 [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR	VER		PK	HOR
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1602.0	46.8	49.7	25.7	33.0	2.7	0.0	42.2	45.1	73.9	31.7	28.8
2	2386.0	44.5	44.5	30.6	32.3	3.5	0.0	46.3	46.3	73.9	27.6	27.6
3	2390.0	42.1	43.5	30.6	32.2	3.5	0.0	44.0	45.4	73.9	29.9	28.5
4	4804.0	40.2	39.4	35.7	31.6	4.8	0.1	49.2	48.4	73.9	24.7	25.5
5	7206.0	39.6	40.0	37.5	31.4	5.5	0.3	51.5	51.9	73.9	22.4	22.0
6	9608.0	40.0	40.4	36.6	31.9	6.4	0.7	51.8	52.2	73.9	22.1	21.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12010.0	not found	not found	-	-	-	-	-	-	73.9	-	-
8	14412.0	not found	not found	-	-	-	-	-	-	73.9	-	-
9	16814.0	not found	not found	-	-	-	-	-	-	73.9	-	-
10	19216.0	not found	not found	-	-	-	-	-	-	73.9	-	-
11	21618.0	not found	not found	-	-	-	-	-	-	73.9	-	-
12	24020.0	40.6	40.1	39.1	30.7	10.6	0.0	50.1	49.6	73.9	23.8	24.3

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 [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR	VER		AV	HOR
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1602.0	38.9	45.4	25.7	33.0	2.7	0.0	34.3	40.8	53.9	19.6	13.1
2	2386.0	31.5	31.8	30.6	32.3	3.5	0.0	33.3	33.6	53.9	20.6	20.3
3	2390.0	29.5	29.5	30.6	32.2	3.5	0.0	31.4	31.4	53.9	22.5	22.5
4	4804.0	27.3	27.3	35.7	31.6	4.8	0.1	36.3	36.3	53.9	17.6	17.6
5	7206.0	26.7	26.8	37.5	31.4	5.5	0.3	38.6	38.7	53.9	15.3	15.2
6	9608.0	27.9	27.8	36.6	31.9	6.4	0.7	39.7	39.6	53.9	14.2	14.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12010.0	not found	not found	-	-	-	-	-	-	53.9	-	-
8	14412.0	not found	not found	-	-	-	-	-	-	53.9	-	-
9	16814.0	not found	not found	-	-	-	-	-	-	53.9	-	-
10	19216.0	not found	not found	-	-	-	-	-	-	53.9	-	-
11	21618.0	not found	not found	-	-	-	-	-	-	53.9	-	-
12	24020.0	27.9	27.9	39.1	30.7	10.6	0.0	37.4	37.4	53.9	16.5	16.5

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 [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2402.0	86.5	87.8	30.6	32.3	3.6	0.0	88.4	89.7	-	-	-
2	2400.0	44.2	45.3	30.6	32.3	3.6	0.0	46.1	47.2	Funda-20dB	22.3	22.5

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

*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 limit is rounded down to one decimal place.

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

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

UL Apex Co., Ltd.
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Radiated Spurious Emission (above 1GHz)

Tx, Ch: Mid

UL-Apex Co.,Ltd.

Head Office EMC Lab. No.2 Anechoic Chamber

Company : Sony EMCS Corporation Saitama TEC
Equipment : Bluetooth Audio System
Model : MEX-BT2500
S/N : 15
Power : DC12V
Mode : Bluetooth Tx 2441MHz (PRBS9, DH5(Worst))
EUT-Axis : Normal

Regulation : FCC 15.247(d) / RSS-210 A8.5
Test Distance : 3m (below 10GHz), 1m (above 10GHz)
Date : 12/21/2006
Temperature : 24 deg.C.
Humidity : 30 %
Engineer : Yutaka Yoshida

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 [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	47.6	49.9	26.1	33.0	2.8	0.0	43.5	45.8	73.9	30.4	28.1
2	4882.0	39.4	40.3	36.2	31.6	4.8	0.0	48.8	49.7	73.9	25.1	24.2
3	7323.0	39.6	41.0	37.9	31.4	5.6	0.4	52.1	53.5	73.9	21.8	20.4
4	9764.0	40.9	41.3	36.6	32.0	6.4	0.7	52.6	53.0	73.9	21.3	20.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	not found	not found	-	-	-	-	-	-	73.9	-	-
6	14646.0	not found	not found	-	-	-	-	-	-	73.9	-	-
7	17087.0	not found	not found	-	-	-	-	-	-	73.9	-	-
8	19528.0	not found	not found	-	-	-	-	-	-	73.9	-	-
9	21969.0	not found	not found	-	-	-	-	-	-	73.9	-	-
10	24410.0	40.9	41.5	39.1	30.6	10.8	0.0	50.7	51.3	73.9	23.2	22.6

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 [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	40.6	45.8	26.1	33.0	2.8	0.0	36.5	41.7	53.9	17.4	12.2
2	4882.0	27.0	27.0	36.2	31.6	4.8	0.0	36.4	36.4	53.9	17.5	17.5
3	7323.0	27.0	27.0	37.9	31.4	5.6	0.4	39.5	39.5	53.9	14.4	14.4
4	9764.0	27.9	27.9	36.6	32.0	6.4	0.7	39.6	39.6	53.9	14.3	14.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	not found	not found	-	-	-	-	-	-	53.9	-	-
6	14646.0	not found	not found	-	-	-	-	-	-	53.9	-	-
7	17087.0	not found	not found	-	-	-	-	-	-	53.9	-	-
8	19528.0	not found	not found	-	-	-	-	-	-	53.9	-	-
9	21969.0	not found	not found	-	-	-	-	-	-	53.9	-	-
10	24410.0	29.0	29.0	39.1	30.6	10.8	0.0	38.8	38.8	53.9	15.1	15.1

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

*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 limit is rounded down to one decimal place.

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

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

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MF060b(14.06.06)

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

Company : Sony EMCS Corporation Saitama TEC
Equipment : Bluetooth Audio System
Model : MEX-BT2500
S/N : 15
Power : DC12V
Mode : Bluetooth Tx 2480MHz (PRBS9, DH5(Worst))
EUT-Axis : Normal

UL-Apex Co.,Ltd.
Head Office EMC Lab. No.2 Anechoic Chamber
Regulation : FCC 15.247(d) / RSS-210 A8.5
Test Distance : 3m (below 10GHz), 1m (above 10GHz)
Date : 12/21/2006
Temperature : 24 deg.C.
Humidity : 30 %
Engineer : Yutaka Yoshida

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 [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1654.0	49.7	51.7	26.5	32.9	2.8	0.0	46.1	48.1	73.9	27.8	25.8
2	2483.5	45.0	47.7	30.4	32.3	3.5	0.0	46.6	49.3	73.9	27.3	24.6
3	4960.0	39.6	39.6	36.6	31.6	4.9	0.0	49.5	49.5	73.9	24.4	24.4
4	7440.0	39.7	39.7	38.2	31.4	5.7	0.5	52.7	52.7	73.9	21.2	21.2
5	9920.0	40.8	40.4	36.5	32.0	6.4	0.7	52.4	52.0	73.9	21.5	21.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12400.0	not found	not found	-	-	-	-	-	-	73.9	-	-
7	14880.0	not found	not found	-	-	-	-	-	-	73.9	-	-
8	17360.0	not found	not found	-	-	-	-	-	-	73.9	-	-
9	19840.0	not found	not found	-	-	-	-	-	-	73.9	-	-
10	22320.0	not found	not found	-	-	-	-	-	-	73.9	-	-
11	24800.0	42.8	42.3	39.3	30.5	11.0	0.0	53.1	52.6	73.9	20.8	21.3

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 [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1654.0	43.4	48.0	26.5	32.9	2.8	0.0	39.8	44.4	53.9	14.1	9.5
2	2483.5	37.0	40.8	30.4	32.3	3.5	0.0	38.6	42.4	53.9	15.3	11.5
3	4960.0	26.9	26.9	36.6	31.6	4.9	0.0	36.8	36.8	53.9	17.1	17.1
4	7440.0	27.2	27.3	38.2	31.4	5.7	0.5	40.2	40.3	53.9	13.7	13.6
5	9920.0	28.0	28.0	36.5	32.0	6.4	0.7	39.6	39.6	53.9	14.3	14.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12400.0	not found	not found	-	-	-	-	-	-	53.9	-	-
7	14880.0	not found	not found	-	-	-	-	-	-	53.9	-	-
8	17360.0	not found	not found	-	-	-	-	-	-	53.9	-	-
9	19840.0	not found	not found	-	-	-	-	-	-	53.9	-	-
10	22320.0	not found	not found	-	-	-	-	-	-	53.9	-	-
11	24800.0	29.7	29.7	39.3	30.5	11.0	0.0	40.0	40.0	53.9	13.9	13.9

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some difference might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

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

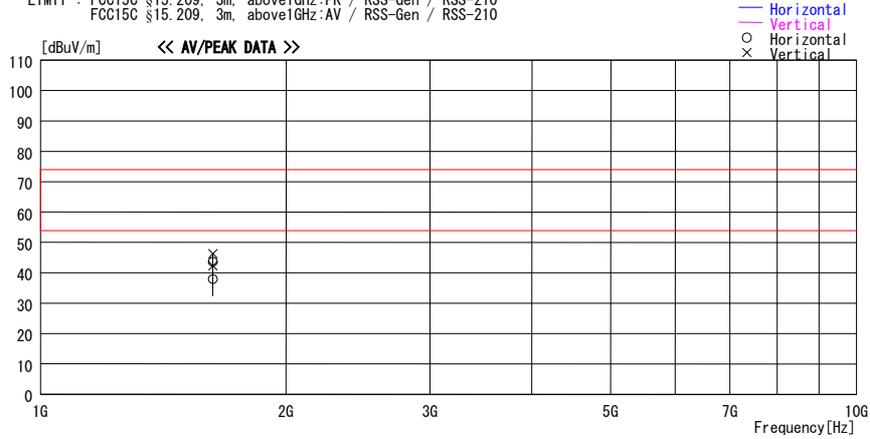
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
 Date : 2006/12/21 22:32:40

Company : Sony EMCS Corporation Saitama TEC Report No. : 27EE0138-H0
 Kind of EUT : Bluetooth Audio System Power : DC12V
 Model No. : MEX-BT2500 Temp./Humi. : 24deg. C. / 30%
 Serial No. : 15 Operator : Yutaka Yoshida

Mode / Remarks : Bluetooth Continuous Rx 2441MHz / Position: Normal

LIMIT : FCC15C §15.209, 3m, above1GHz:PK / RSS-Gen / RSS-210
 FCC15C §15.209, 3m, above1GHz:AV / RSS-Gen / RSS-210

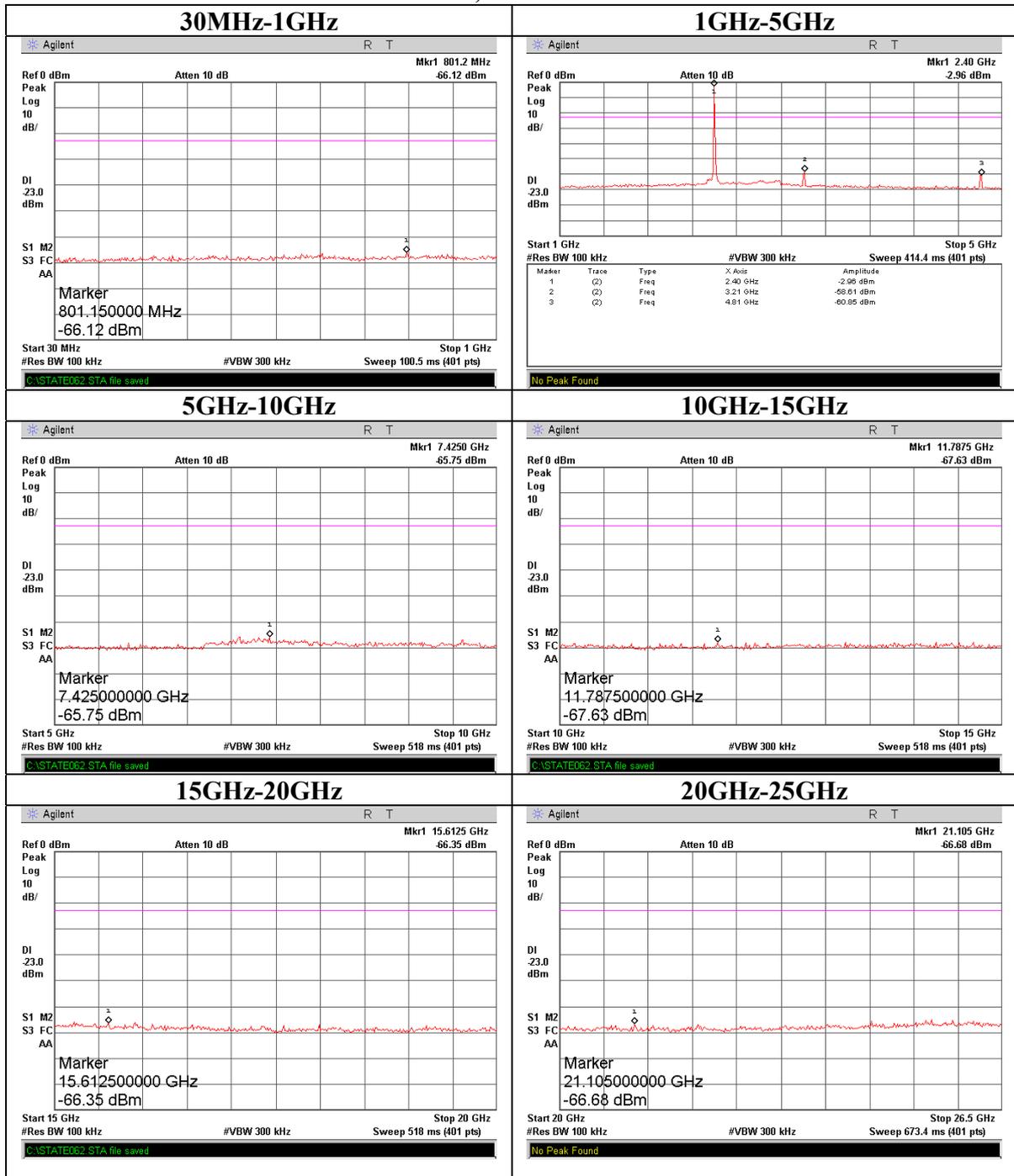


Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
1626.350	47.8	PK	26.1	-30.2	43.7	0	100	Hori.	73.9	30.2	Reference
1626.350	50.4	PK	26.1	-30.2	46.3	328	140	Vert.	73.9	27.6	Reference
1626.350	42.1	AV	26.1	-30.2	38.0	0	100	Hori.	53.9	15.9	
1626.350	46.4	AV	26.1	-30.2	42.3	328	140	Vert.	53.9	11.6	

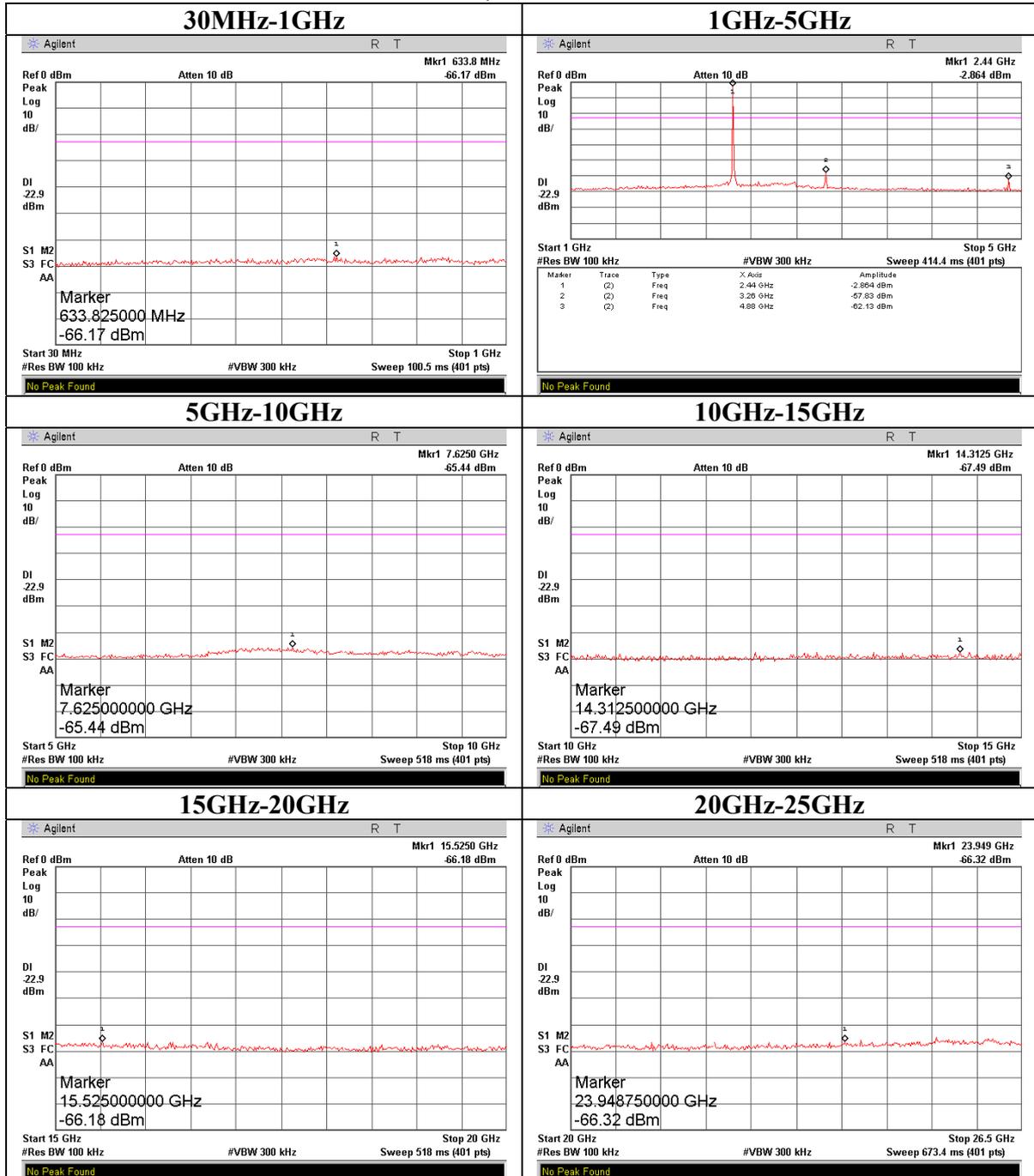
CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

- * The limit is rounded down to one decimal place.
- * The test result is round off to one or two decimal places, so some difference might be observed.

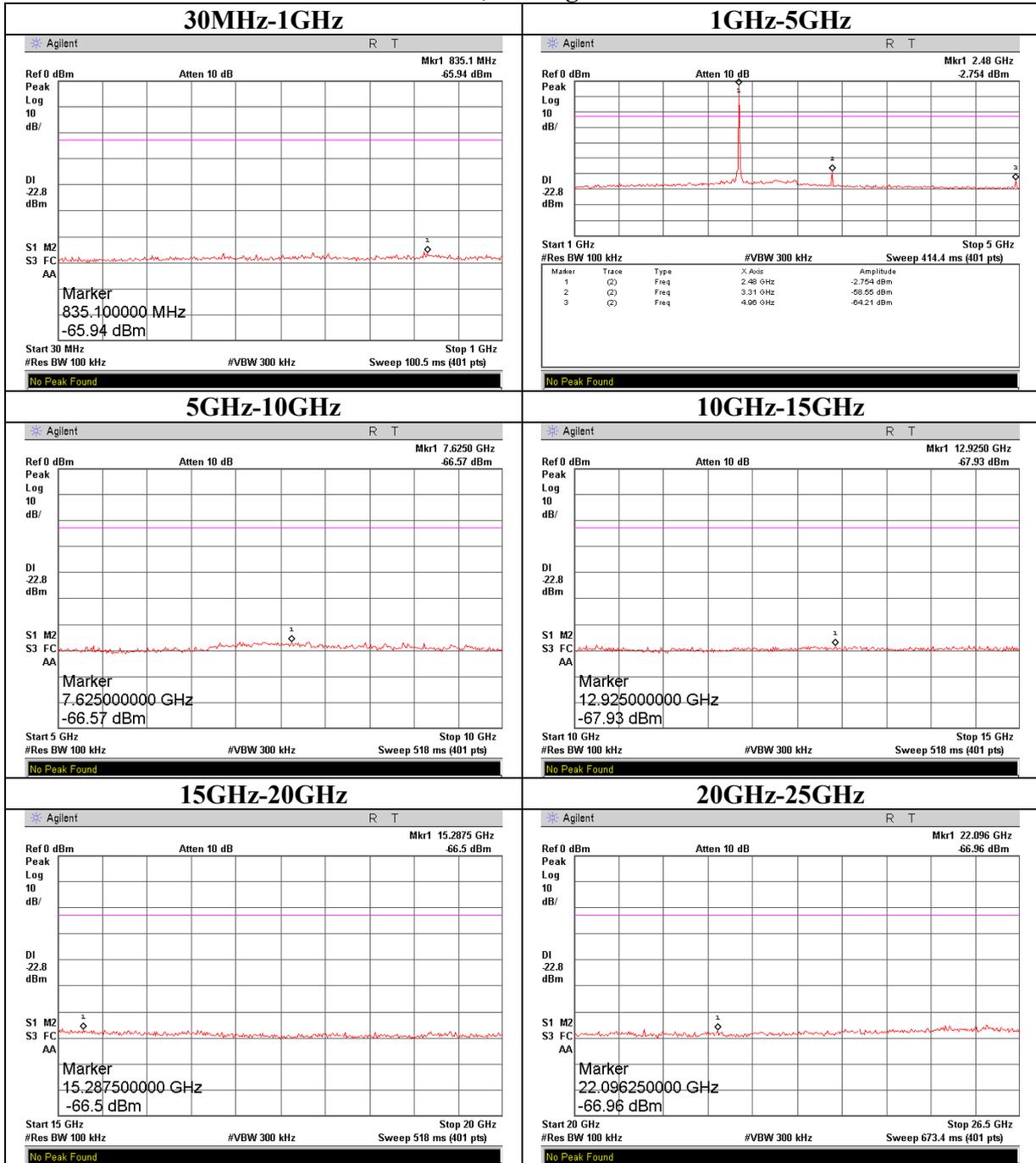
Conducted Spurious Emission
Tx, Ch:Low



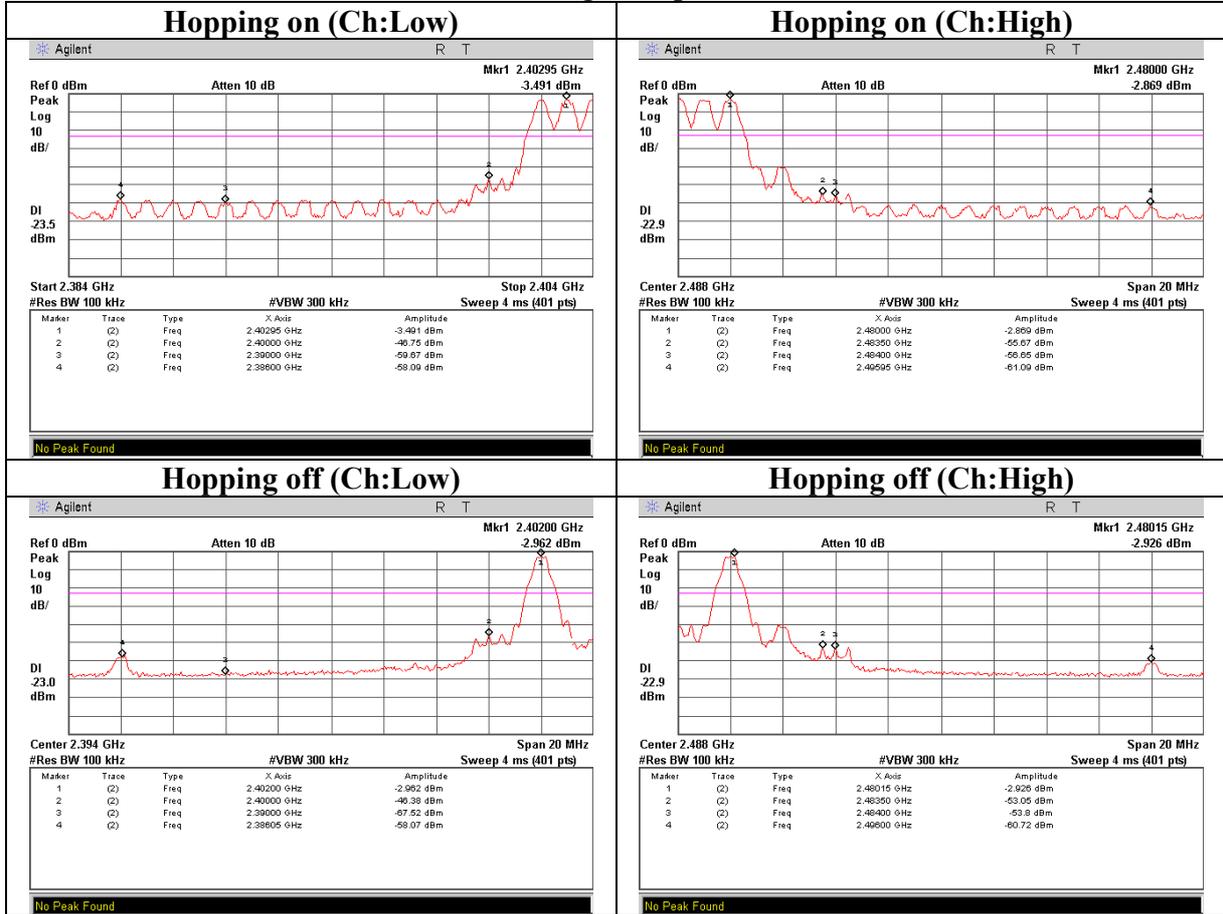
Conducted Spurious Emission
Tx, Ch:Mid



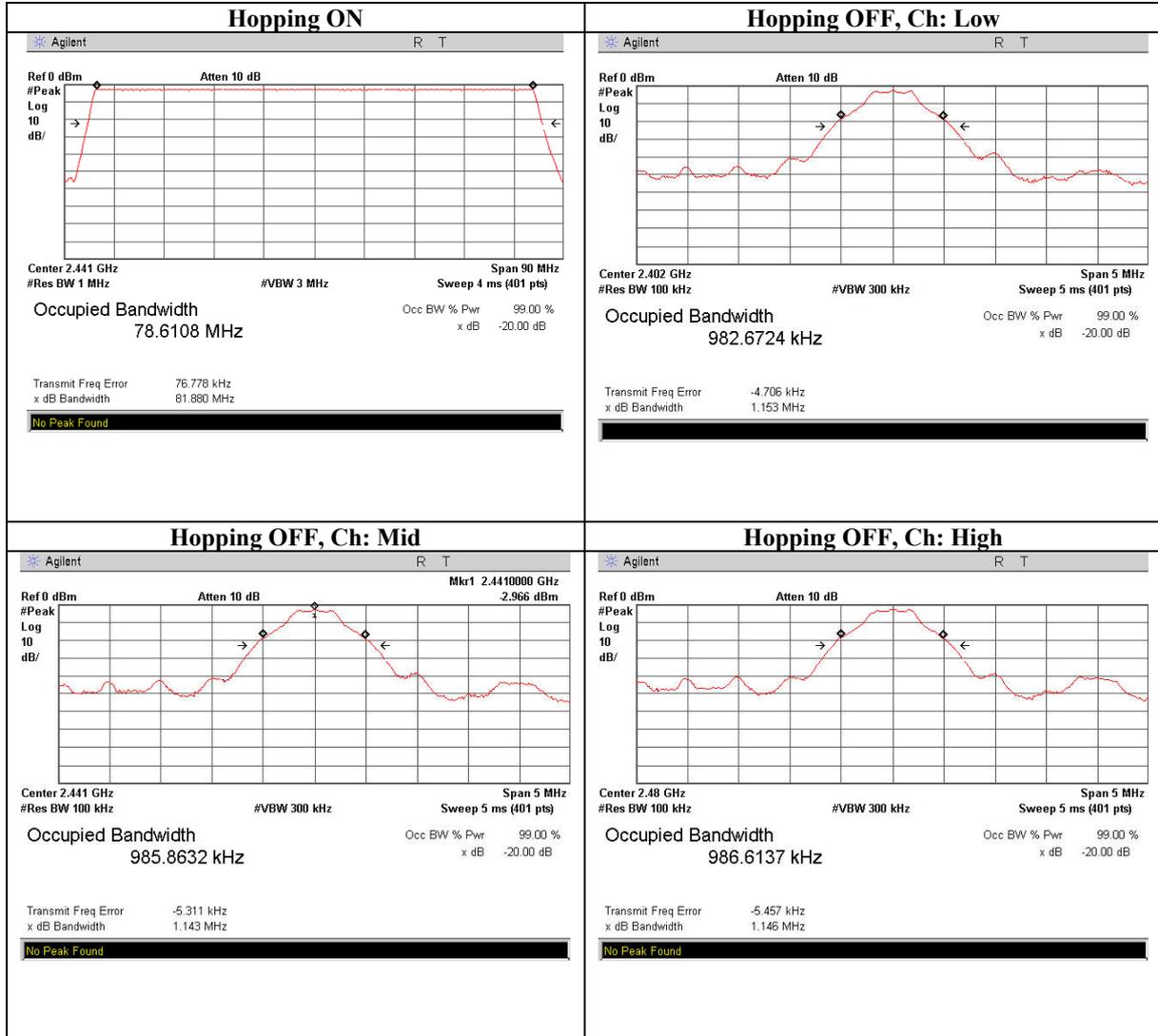
Conducted Spurious Emission
Tx, Ch:High



Conducted Spurious Emission Band Edge compliance



99% Occupied Bandwidth



APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MSA-06	Spectrum Analyzer	Agilent	E4407B	AT	2006/05/24 * 12
MCC-22	Microwave Cable 1G-40GHz	Storm	421-011 (90-011-080)	AT	2006/05/12 * 12
MOS-14	Thermo- Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2006/11/01 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2006/02/23 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2005/12/16 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2006/09/07 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2006/03/04 * 12
MRENT-39	Spectrum Analyzer	Advantest	R3273	RE	2006/07/25 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2006/01/09 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MCC-47	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2006/02/02 * 12
MHF-06	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2006/05/20 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2006/09/11 * 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: AT: Antenna Terminal Conducted test
RE: Radiated Emission

UL Apex Co., Ltd.

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MF060b(14.06.06)