

APPENDIX 2: Data of EMI test

Carrier Frequency Separation

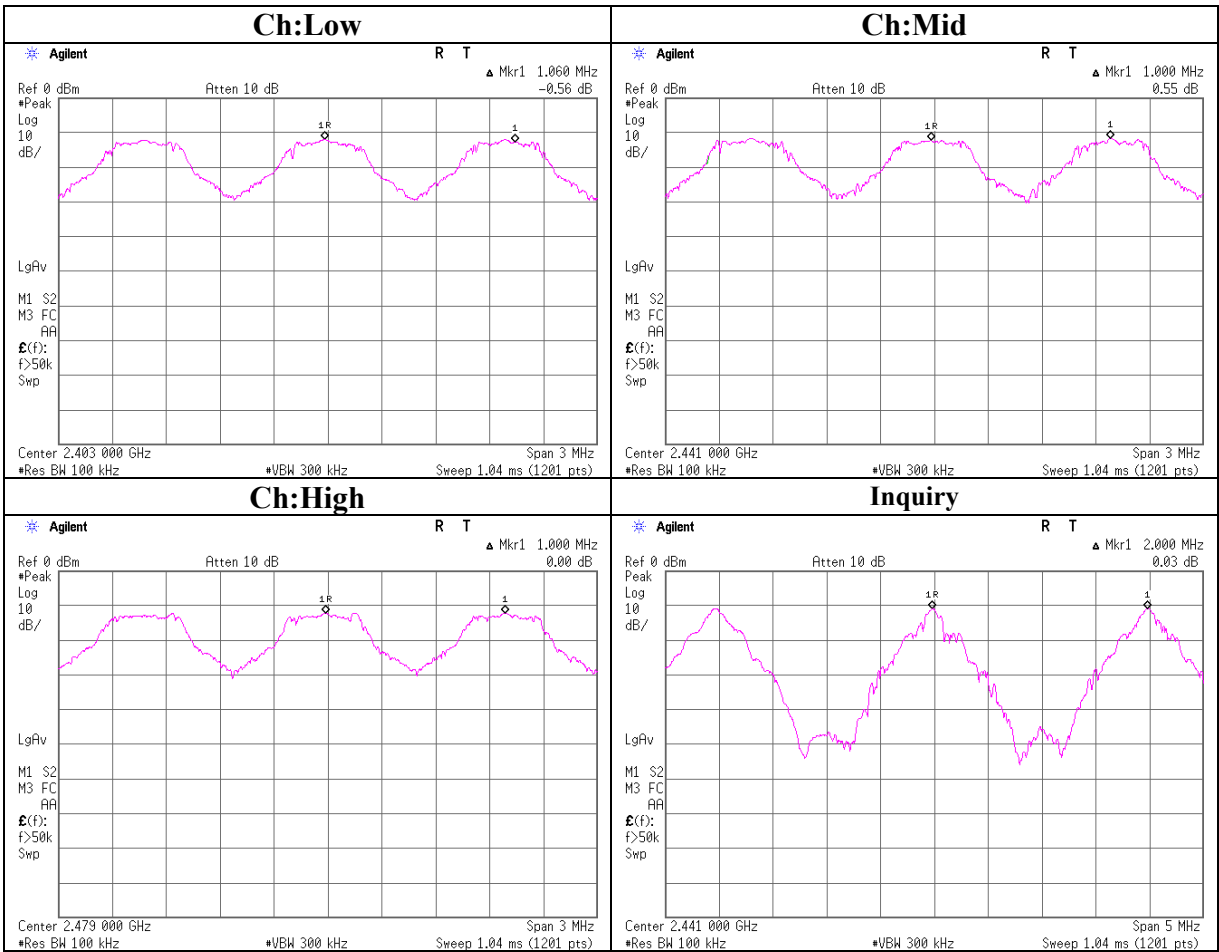
JL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY : Sony Computer Entertainment Inc. REGULATION : FCC15.247(a)(1)/RSS-210A8.1(b)
EQUIPMENT : WIRELESS CONTROLLER TEST DISTANCE : -
MODEL : CECHZC1U DATE : 07/04/20037
S/ N : 1 TEMPERATURE : 24deg.C
POWER : 3.7V HUMIDITY : 58%
MODE : Tx(Hopping on)/Inquiry ENGINEER : Takumi Shimada

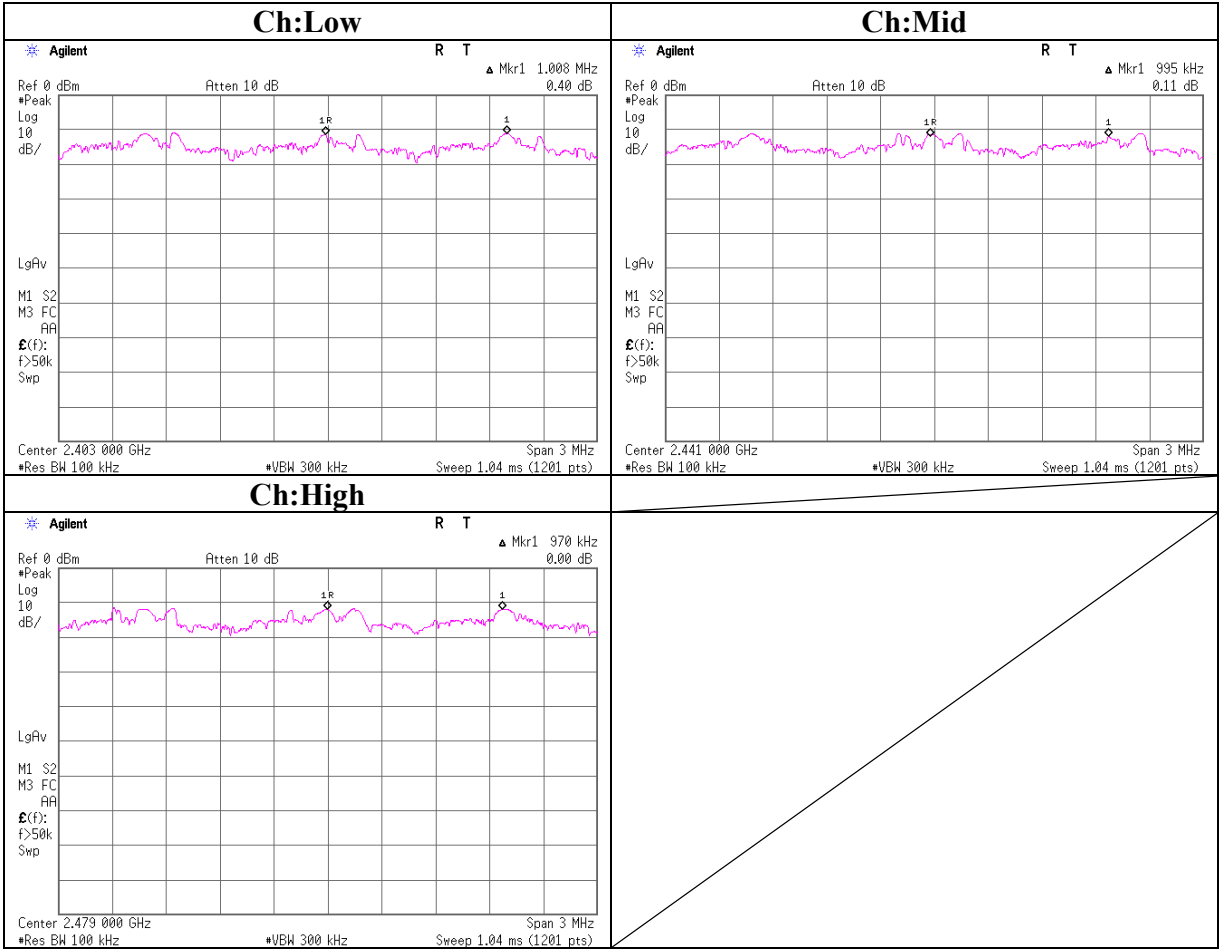
DH5			
Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.060	>two-thirds of the 0.940[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of the 0.935[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of the 0.775[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)

3DH5			
Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.008	>two-thirds of the 0.940[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	0.995	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	0.970	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)

Carrier Frequency Separation



Carrier Frequency Separation (EDR)



20dB Bandwidth

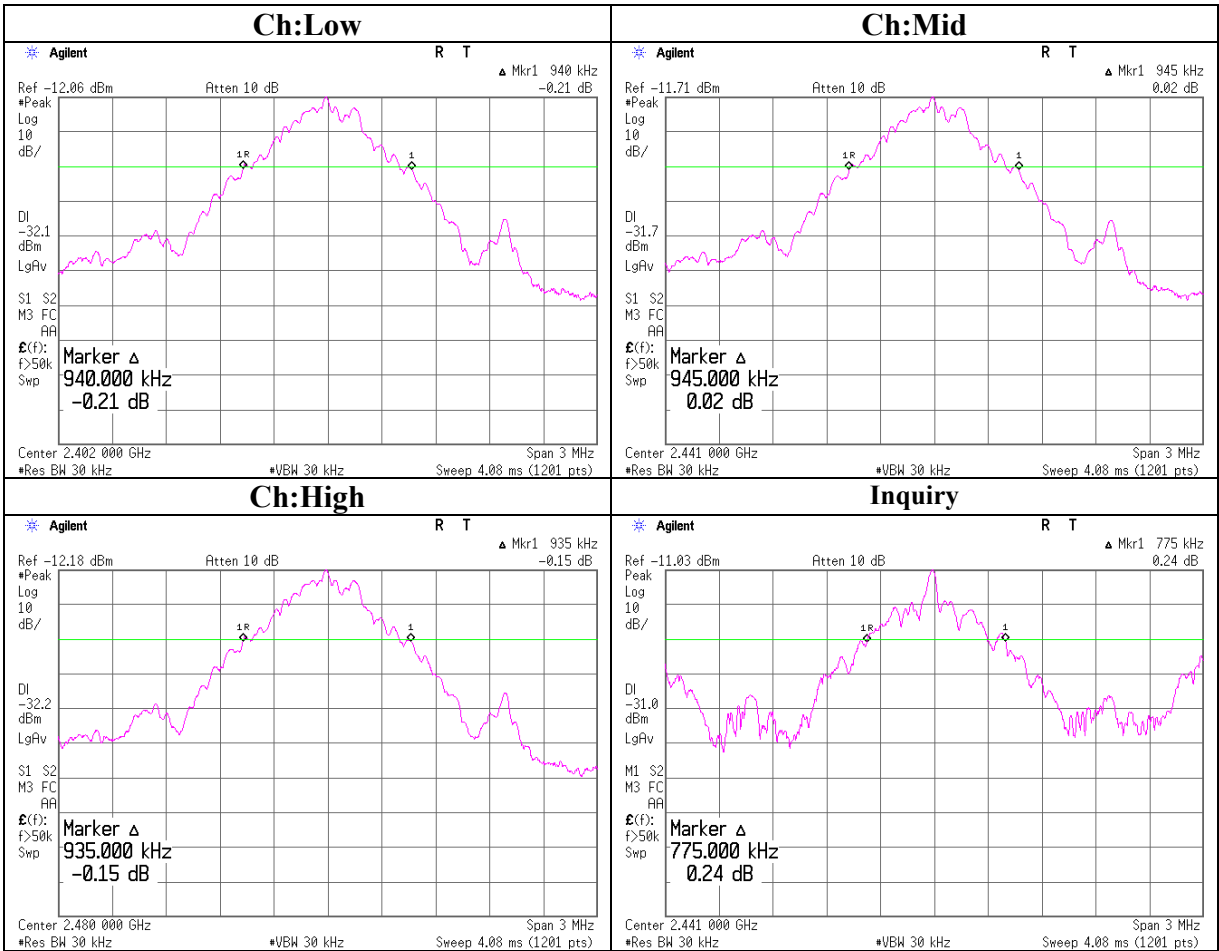
UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY	: Sony Computer Entertainment Inc.	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(a)
EQUIPMENT	: WIRELESS CONTROLLER	TEST DISTANCE	: -
MODEL	: CECHZC1U	DATE	: 07/04/2007
S/ N	: 1	TEMPERATURE	: 24deg.C
POWER	: 3.7V	HUMIDITY	: 58%
MODE	: Tx (Hopping off) /Inquiry	ENGINEER	: Takumi Shimada

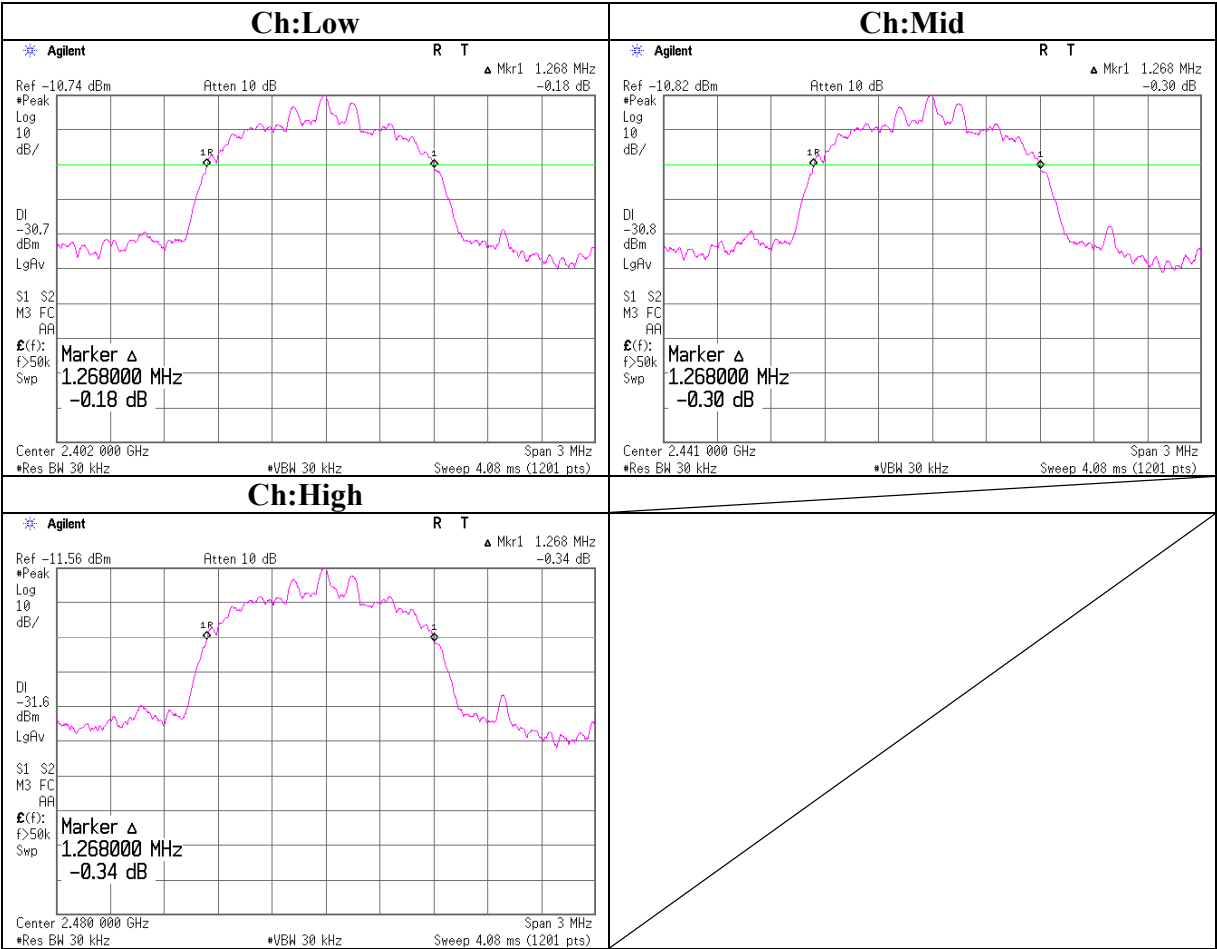
DH5			
Ch	Freq.	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	0.940	-
Mid	2441.0	0.945	-
High	2480.0	0.935	-
Inquiry	2441.0	0.775	-

3DH5			
Ch	Freq.	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	1.268	-
Mid	2441.0	1.268	-
High	2480.0	1.268	-

20dB Bandwidth



20dB Bandwidth (EDR)



Number of Hopping Frequency

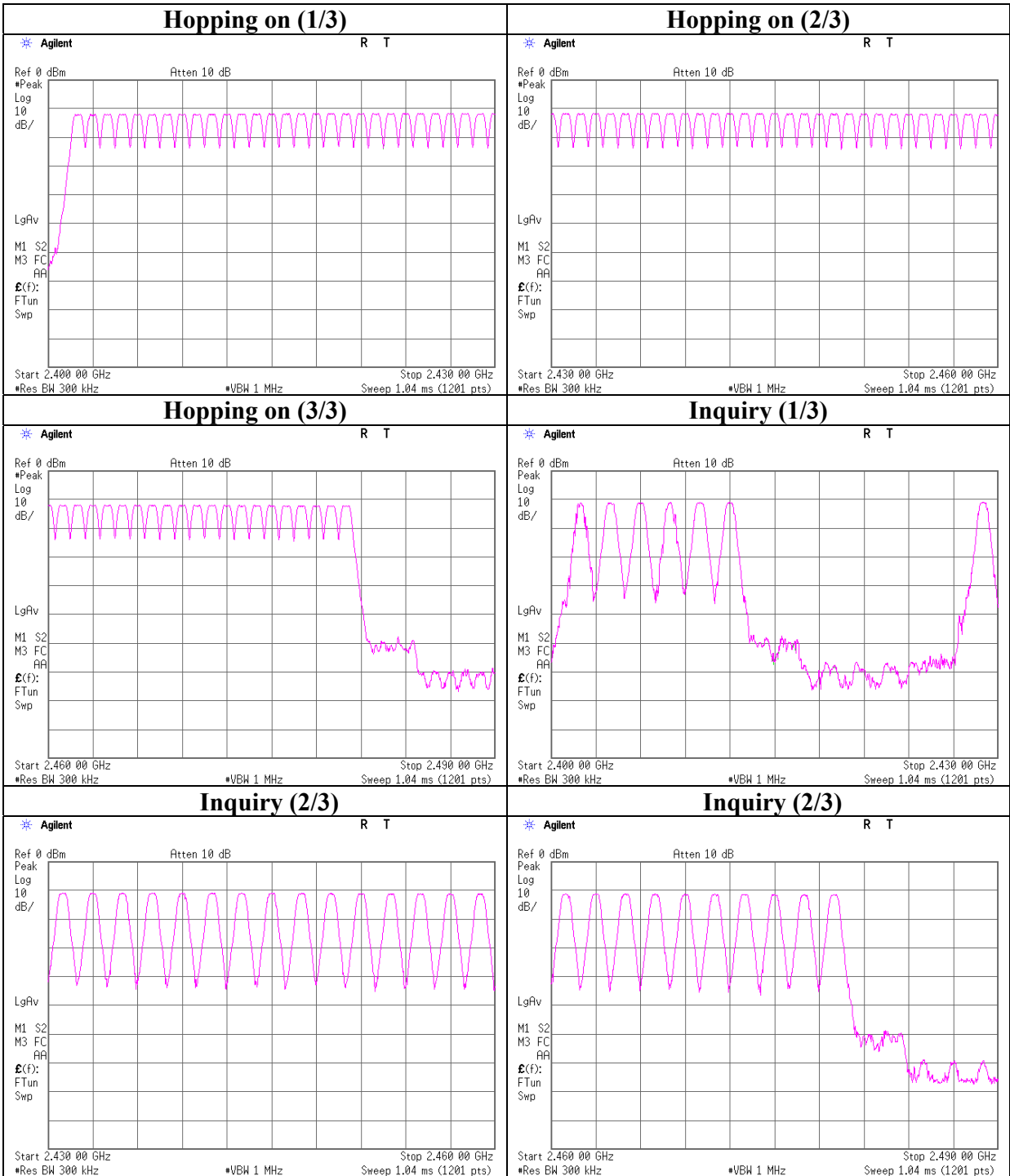
UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY	: Sony Computer Entertainment Inc.	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
EQUIPMENT	: WIRELESS CONTROLLER	TEST DISTANCE	: -
MODEL	: CECHZC1U	DATE	: 07/04/2007
S/ N	: 1	TEMPERATURE	: 24deg.C
POWER	: 3.7V	HUMIDITY	: 58%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Takumi Shimada

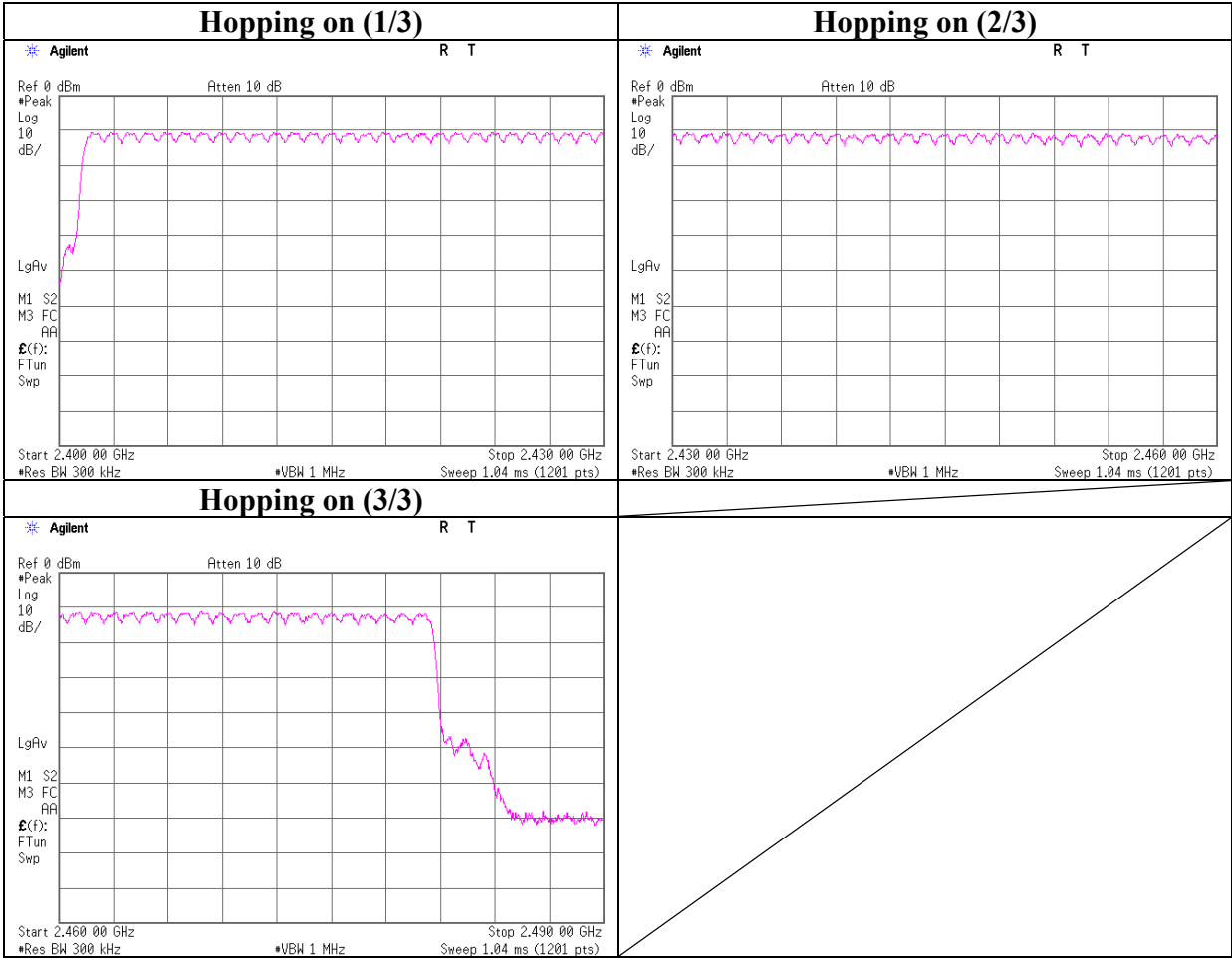
Mode	Number of channel	Limit
	[time]	[time]
DH5	79	≥ 15
3DH5	79	≥ 15

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

Number of Hopping Frequency



Number of Hopping Frequency (EDR)



Dwell time

UL Japan, Inc.

Head Office EMC Lab. No.6 Shielded Room

COMPANY	: Sony Computer Entertainment Inc.	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
EQUIPMENT	: WIRELESS CONTROLLER	TEST DISTANCE	: -
MODEL	: CECHZC1U	DATE	: 07/04/2007
S/ N	: 1	TEMPERATURE	: 24deg.C
POWER	: 3.7V	HUMIDITY	: 58%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Takumi Shimada

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	0.539	174	400
DH3	25 times / 5 sec. x	31.6 sec. = 158 times	1.798	284	400
DH5	17 times / 5 sec. x	31.6 sec. = 108 times	3.100	335	400
Inquiry	100 times / 1 sec. x	12.8 sec. = 1280 times	0.244	313	400

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]
3DH1	51 times / 5 sec. x	31.6 sec. = 323 times	0.557	180	400
3DH3	25 times / 5 sec. x	31.6 sec. = 158 times	1.814	287	400
3DH5	17 times / 5 sec. x	31.6 sec. = 108 times	3.100	335	400

UL Japan, Inc.

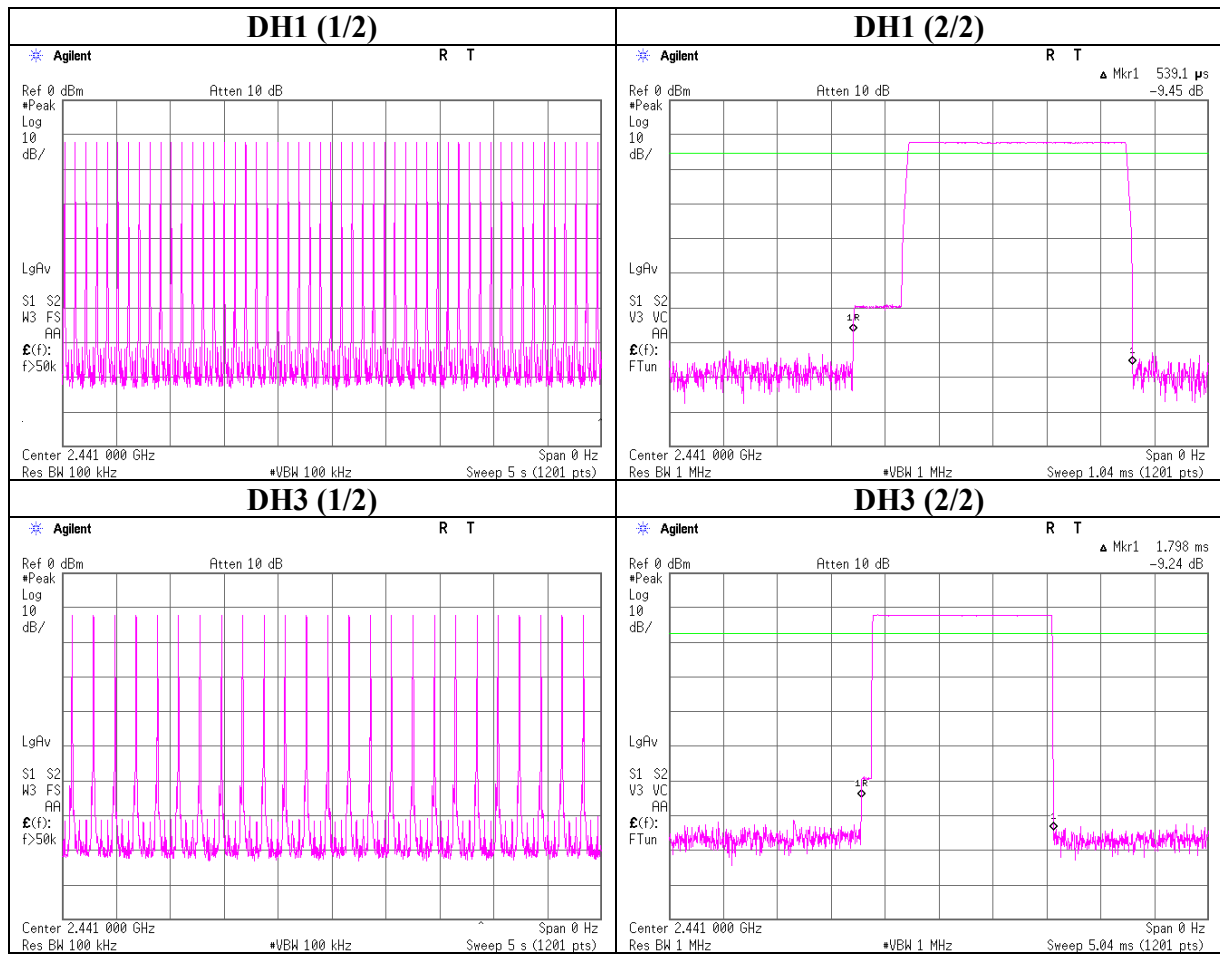
Head Office EMC Lab.

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

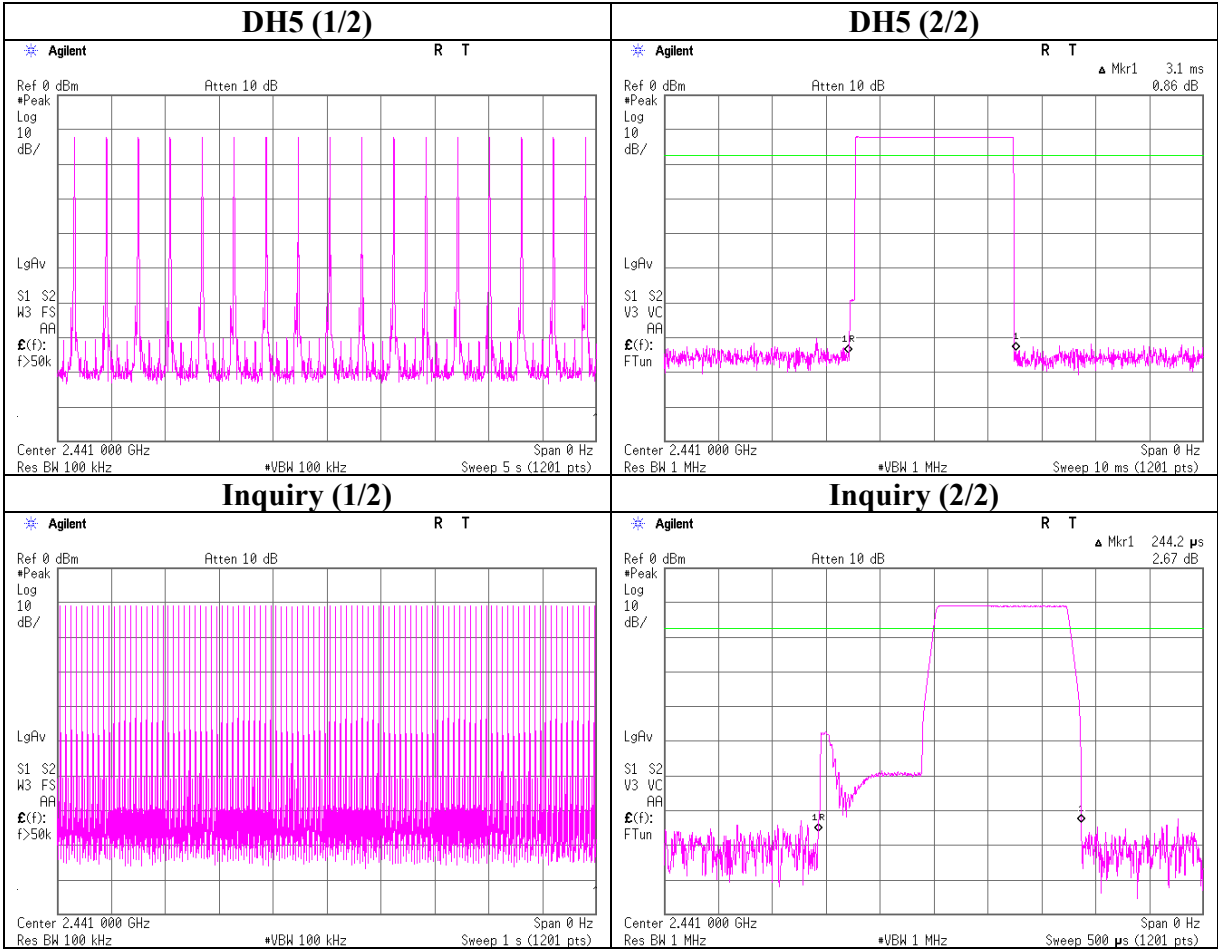
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

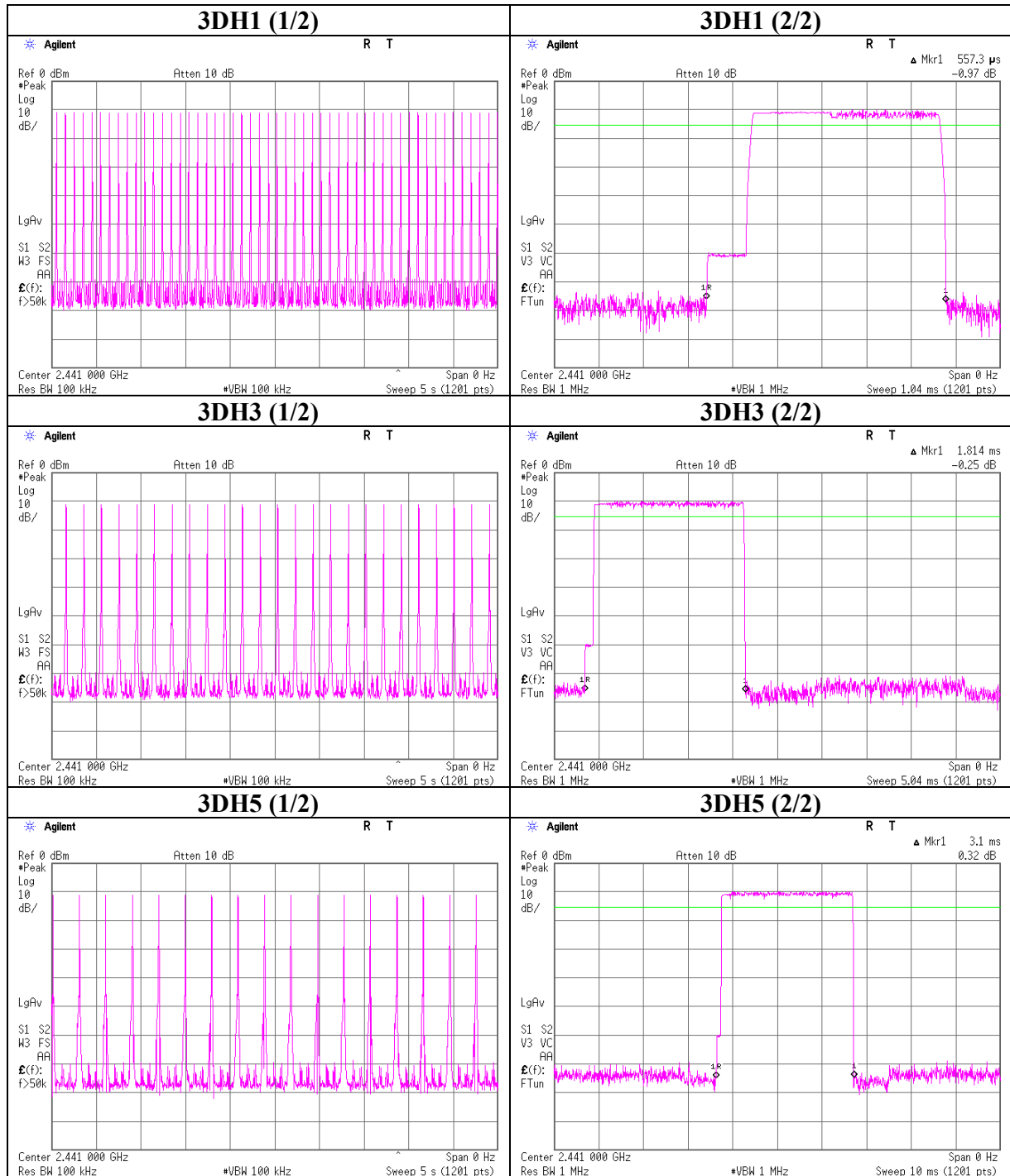
Dwell time



Dwell time



Dwell time (EDR)



Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY : Sony Computer Entertainment Inc.	REGULATION : FCC Part15 Subpart C 15.247(b)(1)/RSS-210 A8.4(2)
EQUIPMENT : WIRELESS CONTROLLER	TEST DISTANCE : -
MODEL : CECHZC1U	DATE : 07/04/2007
S/ N : 1	TEMPERATURE : 24deg.C
MODE : Tx(Hopping Off)/Inquiry	HUMIDITY : 58%
	ENGINEER : Takumi Shimada

DH5									
Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2402.0	-11.04	0.50	10.01	-0.53	0.89	20.97	125	21.50
Mid	2441.0	-10.71	0.50	10.02	-0.19	0.96	20.97	125	21.16
High	2480.0	-10.76	0.50	10.03	-0.23	0.95	20.97	125	21.20
Inquiry	2441.0	-9.63	0.50	10.02	0.89	1.23	20.97	125	20.08

2DH5									
Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2402.0	-8.07	0.50	10.01	2.44	1.75	20.97	125	18.53
Mid	2441.0	-8.23	0.50	10.02	2.29	1.69	20.97	125	18.68
High	2480.0	-8.83	0.50	10.03	1.70	1.48	20.97	125	19.27

3DH5									
Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2402.0	-8.00	0.50	10.01	2.51	1.78	20.97	125	18.46
Mid	2441.0	-8.12	0.50	10.02	2.40	1.74	20.97	125	18.57
High	2480.0	-8.54	0.50	10.03	1.99	1.58	20.97	125	18.98

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)
Tx(DH5), 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

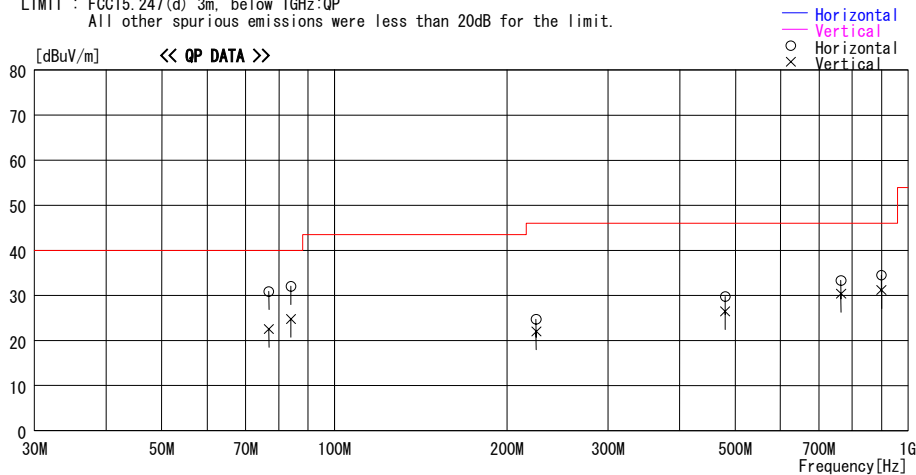
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/06/21

Company : Sony Computer Entertainment Inc. Report No. : 27KE0222-H0
Kind of EUT : WIRELESS CONTROLLER Power : DC 3.7V
Model No. : CECHZC1U Temp./ Humi. : 24deg.C / 65 %
Serial No. : 5 Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2402MHz, Packet Type:DH5, EUT-max-axis(H:X-axis, V:Z-axis)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
76.831	48.0	QP	7.0	-24.2	30.8	310	300	Hori.	40.0	9.2	
76.829	39.8	QP	7.0	-24.2	22.6	137	100	Vert.	40.0	17.5	
84.028	48.5	QP	7.6	-24.1	32.0	311	225	Hori.	40.0	8.0	
84.029	41.3	QP	7.6	-24.1	24.8	0	265	Vert.	40.0	15.3	
224.840	27.8	QP	16.9	-22.7	22.0	0	100	Vert.	46.0	24.0	
224.840	30.6	QP	16.9	-22.7	24.8	284	113	Hori.	46.0	21.2	
480.083	32.4	QP	18.2	-20.9	29.7	235	100	Hori.	46.0	16.3	
480.082	29.2	QP	18.2	-20.9	26.5	305	100	Vert.	46.0	19.5	
764.454	31.6	QP	21.0	-19.3	33.3	255	100	Hori.	46.0	12.7	
764.469	28.6	QP	21.0	-19.3	30.3	0	100	Vert.	46.0	15.7	
899.364	30.7	QP	21.7	-17.9	34.5	30	100	Hori.	46.0	11.5	
899.373	27.4	QP	21.7	-17.9	31.2	0	100	Vert.	46.0	14.9	

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)

Radiated Spurious Emission (below 1GHz)

Tx(DH5), Ch. Mid

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

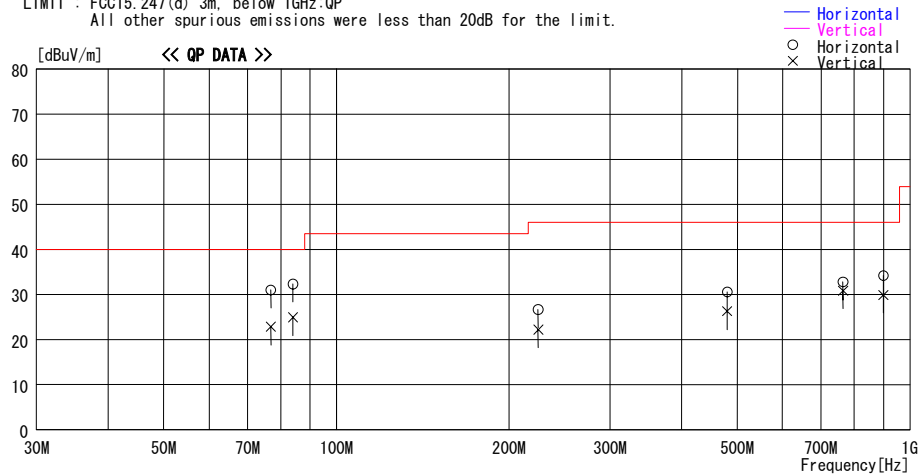
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2007/06/22

Company : Sony Computer Entertainment Inc. Report No. : 27KE0222-H0
Kind of EUT : WIRELESS CONTROLLER Power : DC 3.7V
Model No. : CECHZC1U Temp./ Humi. : 24deg. C. / 65 %
Serial No. : 5 Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2441MHz, Packet Type:DH5, EUT-max-axis(H:X-axis, V:Z-axis)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Loss& Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
76.832	48.3	QP	7.0	-24.2	31.1	298	300	Hori.	40.0	8.9	
76.832	40.0	QP	7.0	-24.2	22.8	298	100	Vert.	40.0	17.2	
84.026	48.8	QP	7.6	-24.1	32.3	292	233	Hori.	40.0	7.7	
84.038	41.4	QP	7.6	-24.1	24.9	0	260	Vert.	40.0	15.1	
224.843	32.5	QP	16.9	-22.7	26.7	271	138	Hori.	46.0	19.3	
224.851	28.0	QP	16.9	-22.7	22.2	0	100	Vert.	46.0	23.8	
480.074	33.2	QP	18.2	-20.9	30.5	228	100	Hori.	46.0	15.5	
480.080	29.0	QP	18.2	-20.9	26.3	168	100	Vert.	46.0	19.7	
764.452	31.1	QP	21.0	-19.3	32.8	249	100	Hori.	46.0	13.2	
764.453	29.2	QP	21.0	-19.3	30.9	13	100	Vert.	46.0	15.1	
899.354	30.4	QP	21.7	-17.9	34.2	35	100	Hori.	46.0	11.8	
899.352	26.1	QP	21.7	-17.9	29.9	0	100	Vert.	46.0	16.1	

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)

Radiated Spurious Emission (below 1GHz)

Tx(3DH5), Ch. Low

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

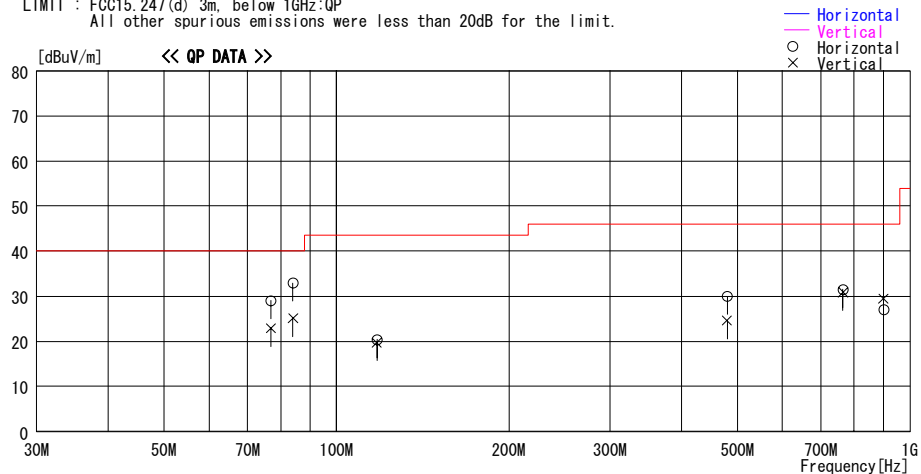
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2007/06/22

Company : Sony Computer Entertainment Inc. Report No. : 27KE0222-H0
Kind of EUT : WIRELESS CONTROLLER Power : DC 3.7V
Model No. : CECHZC1U Temp. / Humi. : 25deg. C / 67%
Serial No. : 5 Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2402MHz, Packet Type:3DH5, EUT-max-axis(H:X, V:Z)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
76.834	46.2	QP	7.0	-24.2	29.0	298	227	Hori.	40.0	11.0	
76.832	40.0	QP	7.0	-24.2	22.8	0	204	Vert.	40.0	17.2	
84.028	49.4	QP	7.6	-24.1	32.9	288	216	Hori.	40.0	7.1	
84.030	41.6	QP	7.6	-24.1	25.1	0	258	Vert.	40.0	14.9	
117.640	30.7	QP	12.8	-23.8	19.7	0	100	Vert.	43.5	23.8	
117.617	31.4	QP	12.8	-23.8	20.4	295	273	Hori.	43.5	23.2	
480.084	32.7	QP	18.2	-20.9	30.0	234	100	Hori.	46.0	16.0	
480.077	27.3	QP	18.2	-20.9	24.6	211	100	Vert.	46.0	21.4	
764.475	29.8	QP	21.0	-19.3	31.5	265	100	Hori.	46.0	14.5	
764.475	29.1	QP	21.0	-19.3	30.8	124	100	Vert.	46.0	15.2	
899.379	23.2	QP	21.7	-17.9	27.0	359	100	Hori.	46.0	19.0	
899.379	25.6	QP	21.7	-17.9	29.4	0	100	Vert.	46.0	16.6	

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)

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)

Rx, Ch. Mid

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

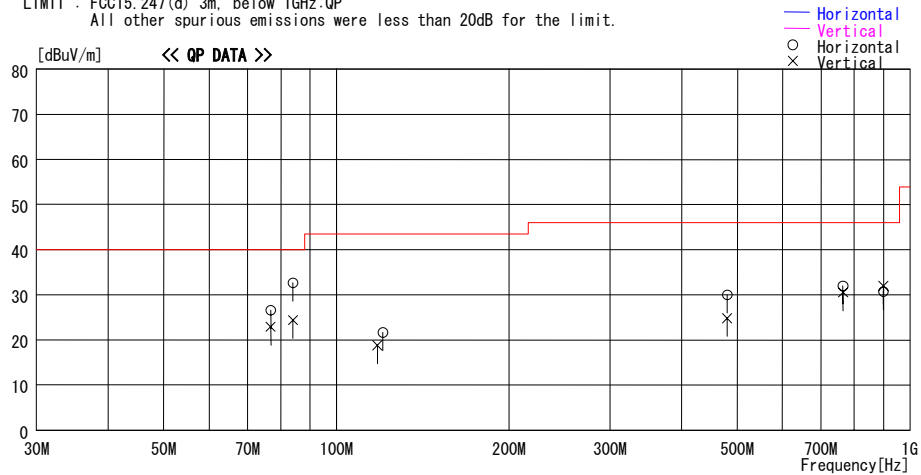
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2007/06/23

Company : Sony Computer Entertainment Inc. Report No. : 27KE0222-H0
Kind of EUT : WIRELESS CONTROLLER Power : DC 3.7V
Model No. : CECHZC1U Temp./ Humi. : 25deg. C. / 67%
Serial No. : 5 Operator : Takumi Shimada

Mode / Remarks : Bluetooth Rx 2441MHz, EUT-max-axis(H:X, V:Z)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



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]							
76.825	43.8	QP	7.0	-24.2	26.6	120	236	Hori.	40.0	13.4	
76.826	40.1	QP	7.0	-24.2	22.9	0	222	Vert.	40.0	17.1	
84.027	49.2	QP	7.6	-24.1	32.7	289	216	Hori.	40.0	7.3	
84.031	40.9	QP	7.6	-24.1	24.4	0	245	Vert.	40.0	15.6	
117.807	29.8	QP	12.8	-23.8	18.8	285	100	Vert.	43.5	24.7	
120.436	32.3	QP	13.1	-23.7	21.7	309	248	Hori.	43.5	21.8	
480.079	27.5	QP	18.2	-20.9	24.8	314	100	Vert.	46.0	21.2	
480.085	32.7	QP	18.2	-20.9	30.0	232	100	Hori.	46.0	16.1	
764.432	30.3	QP	21.0	-19.3	32.0	269	100	Hori.	46.0	14.0	
764.441	28.8	QP	21.0	-19.3	30.5	146	100	Vert.	46.0	15.5	
899.336	28.2	QP	21.7	-17.9	32.0	336	100	Vert.	46.0	14.0	
899.336	26.9	QP	21.7	-17.9	30.7	261	227	Hori.	46.0	15.3	

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)

Test report No. : 27KE0222-HO-E
Page : 35 of 53
Issued date : July 6, 2007
FCC ID : AK8CECHZC01

Radiated Spurious Emission (above 1GHz) Tx(DH5), Ch. Low

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Computer Entertainment Inc. REPORT NO : 27KE0222-HO
Equipment : WIRELESS CONTROLLER REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC1U TEST DISTANCE : 3/1m
Sample No. : 5 DATE : 06/22/2007
Power : DC 3.7V TEMPERATURE : 24deg.C
Mode : Bluetooth, Tx 2402MHz(DH5) HUMIDITY : 65%
Remarks : Hor X , Ver Z-axis ENGINEER : Hidekazu Tanaka

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	46.4	46.4	27.3	31.5	3.0	0.0	45.2	45.2	73.9	28.7	28.7
2	2400.0	64.5	63.6	27.3	31.5	3.0	0.0	63.3	62.4	73.9	10.6	11.5
3	4804.0	42.5	43.0	31.5	30.8	3.9	0.8	47.9	48.4	73.9	26.0	25.5
4	7206.0	44.3	44.2	35.8	31.3	4.5	0.5	53.8	53.7	73.9	20.1	20.2
5	9608.0	43.9	44.0	38.2	31.9	5.4	0.5	56.1	56.2	73.9	17.8	17.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	14412.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	16814.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	19216.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	21618.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
11	24020.0	47.2	46.7	38.7	30.5	9.3	0.0	55.2	54.7	73.9	18.7	19.2

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	32.6	32.4	27.3	31.5	3.0	0.0	31.4	31.2	53.9	22.5	22.7
2	2400.0	49.1	48.2	27.3	31.5	3.0	0.0	47.9	47.0	53.9	6.0	6.9
3	4804.0	28.4	28.9	31.5	30.8	3.9	0.8	33.8	34.3	53.9	20.1	19.6
4	7206.0	29.8	30.0	35.8	31.3	4.5	0.5	39.3	39.5	53.9	14.6	14.4
5	9608.0	29.9	29.9	38.2	31.9	5.4	0.5	42.1	42.1	53.9	11.8	11.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	14412.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	16814.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	19216.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	21618.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
11	24020.0	33.7	33.6	38.7	30.5	9.3	0.0	41.7	41.6	53.9	12.2	12.3

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 fifth 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.

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FCC ID : AK8CECHZC01

Radiated Spurious Emission (above 1GHz) Tx(DH5), Ch. Mid

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company	: Sony Computer Entertainment Inc.	REPORT NO	: 27KE0222-HO
Equipment	: WIRELESS CONTROLLER	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: CECHZC1U	TEST DISTANCE	: 3/1m
Sample No.	: 5	DATE	: 06/22/2007
Power	: DC 3.7V	TEMPERATURE	: 24deg.C
Mode	: Bluetooth, Tx 2441MHz(DH5)	HUMIDITY	: 65%
Remarks	: Hor X , Ver Z-axis	ENGINEER	: Hidekazu Tanaka

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

K DEFECT	(R/W: 1MHz, V/W: 1MHz)												
	No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit PK	MARGIN	
			HOR	VER					HOR	VER		HOR	VER
	[MHz]		[dBuV]		[dB/m]		[dB]		[dB]		[dBuV/m]		[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	4882.0	43.2	43.0	31.7	30.7	3.9	0.7	48.8	48.6	73.9	25.1	25.3	
2	7323.0	44.4	44.1	35.9	31.3	4.6	0.5	54.1	53.8	73.9	19.8	20.1	
3	9764.0	44.0	43.5	38.2	32.1	5.4	0.4	55.9	55.4	73.9	18.0	18.5	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
4	12205.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-	
5	14646.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-	
6	17087.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-	
7	19528.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-	
8	21969.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-	
9	24410.0	46.4	47.0	38.8	30.3	9.4	0.0	54.8	55.4	73.9	19.1	18.5	

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4882.0	28.5	29.2	31.7	30.7	3.9	0.7	34.1	34.8	53.9	19.8	19.1
2	7323.0	29.9	29.9	35.9	31.3	4.6	0.5	39.6	39.6	53.9	14.3	14.3
3	9764.0	29.7	29.7	38.2	32.1	5.4	0.4	41.6	41.6	53.9	12.3	12.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
5	14646.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	17087.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	19528.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	21969.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	24410.0	33.2	33.2	38.8	30.3	9.4	0.0	41.6	41.6	53.9	12.3	12.3

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.5\text{dB}$

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

*In the frequency over the fifth 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.

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Radiated Spurious Emission (above 1GHz) Tx(DH5), Ch. High

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Computer Entertainment Inc.	REPORT NO : 27KE0222-HO
Equipment : WIRELESS CONTROLLER	REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC1U	TEST DISTANCE : 3/1m
Sample No. : 5	DATE : 06/22/2007
Power : DC 3.7V	TEMPERATURE : 24deg.C
Mode : Bluetooth, Tx 2480MHz(DH5)	HUMIDITY : 65%
Remarks : Hor X , Ver Z-axis	ENGINEER : Hidekazu Tanaka

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	59.3	56.1	27.4	31.5	3.1	0.0	58.3	55.1	73.9	15.6	18.8
2	4960.0	43.7	43.2	31.8	30.7	4.0	0.7	49.5	49.0	73.9	24.4	24.9
3	7440.0	44.3	44.4	36.1	31.3	4.7	0.6	54.4	54.5	73.9	19.5	19.4
4	9920.0	43.7	43.9	38.2	32.2	5.4	0.3	55.4	55.6	73.9	18.5	18.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	24800.0	48.4	48.2	38.9	30.1	9.4	0.0	57.1	56.9	73.9	16.8	17.0

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dBuV/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	45.0	42.3	27.4	31.5	3.1	0.0	44.0	41.3	53.9	9.9	12.6
2	4960.0	28.7	29.5	31.8	30.7	4.0	0.7	34.5	35.3	53.9	19.4	18.6
3	7440.0	30.0	30.0	36.1	31.3	4.7	0.6	40.1	40.1	53.9	13.8	13.8
4	9920.0	30.2	30.3	38.2	32.2	5.4	0.3	41.9	42.0	53.9	12.0	11.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	24800.0	34.9	34.9	38.9	30.1	9.4	0.0	43.6	43.6	53.9	10.3	10.3

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 fifth 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.

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Radiated Spurious Emission (above 1GHz) Tx(3DH5), Ch. Low

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Computer Entertainment Inc.
Equipment : WIRELESS CONTROLLER
Model : CECHZC1U
Sample No. : 5
Power : DC 3.7V
Mode : Bluetooth, Tx 2402MHz(3DH5)
Remarks : Hor X , Ver Z-axis

REPORT NO : 27KE0222-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/22/2007
TEMPERATURE : 24deg.C
HUMIDITY : 65%
ENGINEER : Hidekazu Tanaka

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	49.4	48.1	27.3	31.5	3.0	0.0	48.2	46.9	73.9	25.7	27.0
2*	2400.0	73.2	71.3	27.3	31.5	3.0	0.0	72.0	70.1	73.9	-	-
3	4804.0	43.0	42.1	31.5	30.8	3.9	0.8	48.4	47.5	73.9	25.5	26.4
4	7206.0	44.5	43.9	35.8	31.3	4.5	0.5	54.0	53.4	73.9	19.9	20.5
5	9608.0	44.2	43.9	38.2	31.9	5.4	0.5	56.4	56.1	73.9	17.5	17.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12185.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	14622.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	17059.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	19496.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	21933.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
11	24370.0	47.3	46.9	38.7	30.5	9.3	0.0	55.3	54.9	73.9	18.6	19.0

* Reference data

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
		[dBuV]						[dBuV/m]			[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	34.4	33.5	27.3	31.5	3.0	0.0	33.2	32.3	53.9	20.7	21.6
2*	2400.0	54.0	52.5	27.3	31.5	3.0	0.0	52.8	51.3	53.9	-	-
3	4804.0	28.5	28.4	31.5	30.8	3.9	0.8	33.9	33.8	53.9	20.0	20.1
4	7206.0	30.0	30.0	35.8	31.3	4.5	0.5	39.5	39.5	53.9	14.4	14.4
5	9608.0	29.9	29.9	38.2	31.9	5.4	0.5	42.1	42.1	53.9	11.8	11.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12185.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	14622.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	17059.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	19496.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	21933.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
11	24370.0	33.9	34.0	38.7	30.5	9.3	0.0	41.9	42.0	53.9	12.0	11.9

* Reference data

20dBc(Fundamental 2412MHz) (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
		[dBuV]						[dB/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	102.3	100.5	27.3	31.5	3.0	0.0	101.1	99.3	-	-	-
2	2400.0	54.3	52.6	27.3	31.5	3.0	0.0	53.1	51.4	Funda-20dB	28.0	27.9

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 fifth 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.

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Radiated Spurious Emission (above 1GHz) Tx(3DH5), Ch. Mid

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Computer Entertainment Inc. REPORT NO : 27KE0222-HO
Equipment : WIRELESS CONTROLLER REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC1U TEST DISTANCE : 3/1m
Sample No. : 5 DATE : 06/22/2007
Power : DC 3.7V TEMPERATURE : 24deg.C
Mode : Bluetooth, Tx 2441MHz(3DH5) HUMIDITY : 65%
Remarks : Hor X , Ver Z-axis ENGINEER : Hidekazu Tanaka

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4882.0	42.7	42.1	31.7	30.7	3.9	0.7	48.3	47.7	73.9	25.6	26.2
2	7323.0	44.8	44.7	35.9	31.3	4.6	0.5	54.5	54.4	73.9	19.4	19.5
3	9764.0	43.5	43.6	38.2	32.1	5.4	0.4	55.4	55.5	73.9	18.5	18.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
5	14646.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
6	17087.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	19528.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	21969.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	24410.0	46.9	46.3	38.8	30.3	9.4	0.0	55.3	54.7	73.9	18.6	19.2

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4882.0	28.5	28.5	31.7	30.7	3.9	0.7	34.1	34.1	53.9	19.8	19.8
2	7323.0	29.9	30.0	35.9	31.3	4.6	0.5	39.6	39.7	53.9	14.3	14.2
3	9764.0	29.7	29.7	38.2	32.1	5.4	0.4	41.6	41.6	53.9	12.3	12.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
5	14646.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	17087.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	19528.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	21969.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	24410.0	33.4	33.4	38.8	30.3	9.4	0.0	41.8	41.8	53.9	12.1	12.1

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 fifth 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.

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Radiated Spurious Emission (above 1GHz) Tx(3DH5), Ch. High

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Computer Entertainment Inc. REPORT NO : 27KE0222-HO
Equipment : WIRELESS CONTROLLER REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC1U TEST DISTANCE : 3/1m
Sample No. : 5 DATE : 06/22/2007
Power : DC 3.7V TEMPERATURE : 24deg.C
Mode : Bluetooth, Tx 2480MHz(3DH5) HUMIDITY : 65%
Remarks : Hor X , Ver Z-axis ENGINEER : Hidekazu Tanaka

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	66.8	64.1	27.4	31.5	3.1	0.0	65.8	63.1	73.9	8.1	10.8
2	4960.0	42.1	42.4	31.8	30.7	4.0	0.7	47.9	48.2	73.9	26.0	25.7
3	7440.0	44.0	43.4	36.1	31.3	4.7	0.6	54.1	53.5	73.9	19.8	20.4
4	9920.0	43.5	43.6	38.2	32.2	5.4	0.3	55.2	55.3	73.9	18.7	18.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	24800.0	48.6	48.4	38.9	30.1	9.4	0.0	57.3	57.1	73.9	16.6	16.8

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	49.6	47.2	27.4	31.5	3.1	0.0	48.6	46.2	53.9	5.3	7.7
2	4960.0	28.7	28.6	31.8	30.7	4.0	0.7	34.5	34.4	53.9	19.4	19.5
3	7440.0	29.8	29.7	36.1	31.3	4.7	0.6	39.9	39.8	53.9	14.0	14.1
4	9920.0	29.7	29.7	38.2	32.2	5.4	0.3	41.4	41.4	53.9	12.5	12.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	24800.0	35.0	35.0	38.9	30.1	9.4	0.0	43.7	43.7	53.9	10.2	10.2

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 fifth 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.

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Radiated Spurious Emission (above 1GHz)

Rx, Ch. Mid

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Computer Entertainment Inc.	REPORT NO : 27KE0222-HO
Equipment : WIRELESS CONTROLLER	REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC1U	TEST DISTANCE : 3m
Sample No. : 5	DATE : 06/22/2007
Power : DC 3.7V	TEMPERATURE : 24deg.C
Mode : Bluetooth, Rx 2441MHz	HUMIDITY : 65%
Remarks : Hor X, Ver Z-axis	ENGINEER : Hidekazu Tanaka

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2439.5	51.8	49.5	27.4	31.5	3.1	0.0	50.8	48.5	73.9	23.1	25.4
2	2441.0	44.0	43.3	27.4	31.5	3.1	0.0	43.0	42.3	73.9	30.9	31.6
3	4882.0	42.9	41.9	31.7	30.7	3.9	0.0	47.8	46.8	73.9	26.1	27.1
4	7323.0	44.2	43.9	35.9	31.3	4.6	0.0	53.4	53.1	73.9	20.5	20.8

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

AV DETECT (RdB V 1MHz, VdB V 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	2439.5	47.8	43.8	27.4	31.5	3.1	0.0	46.8	42.8	53.9	7.1	11.1
2	2441.0	29.9	29.7	27.4	31.5	3.1	0.0	28.9	28.7	53.9	25.0	25.2
3	4882.0	28.7	28.6	31.7	30.7	3.9	0.0	33.6	33.5	53.9	20.3	20.4
4	7323.0	29.9	29.9	35.9	31.3	4.6	0.0	39.1	39.1	53.9	14.8	14.8

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.

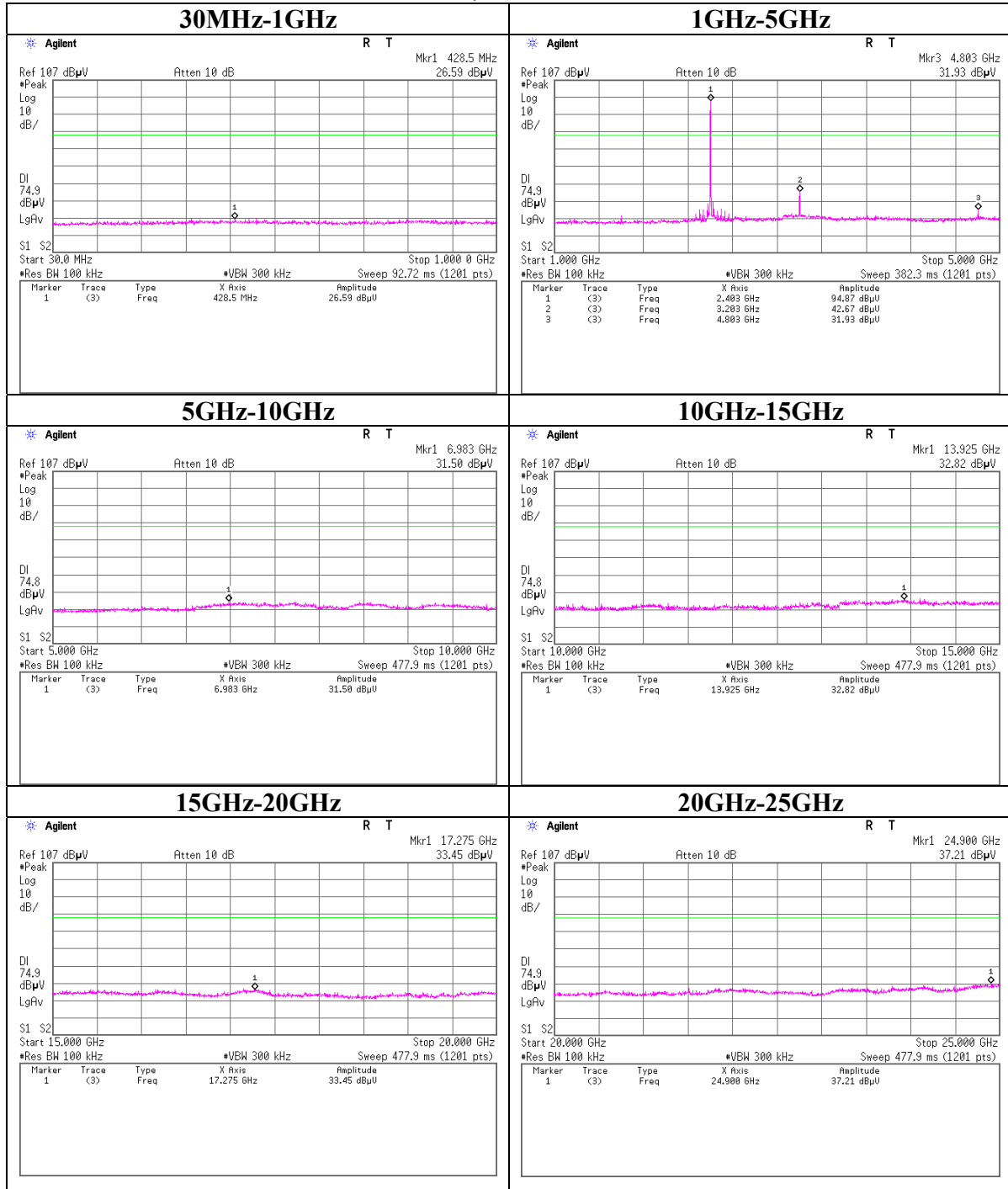
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

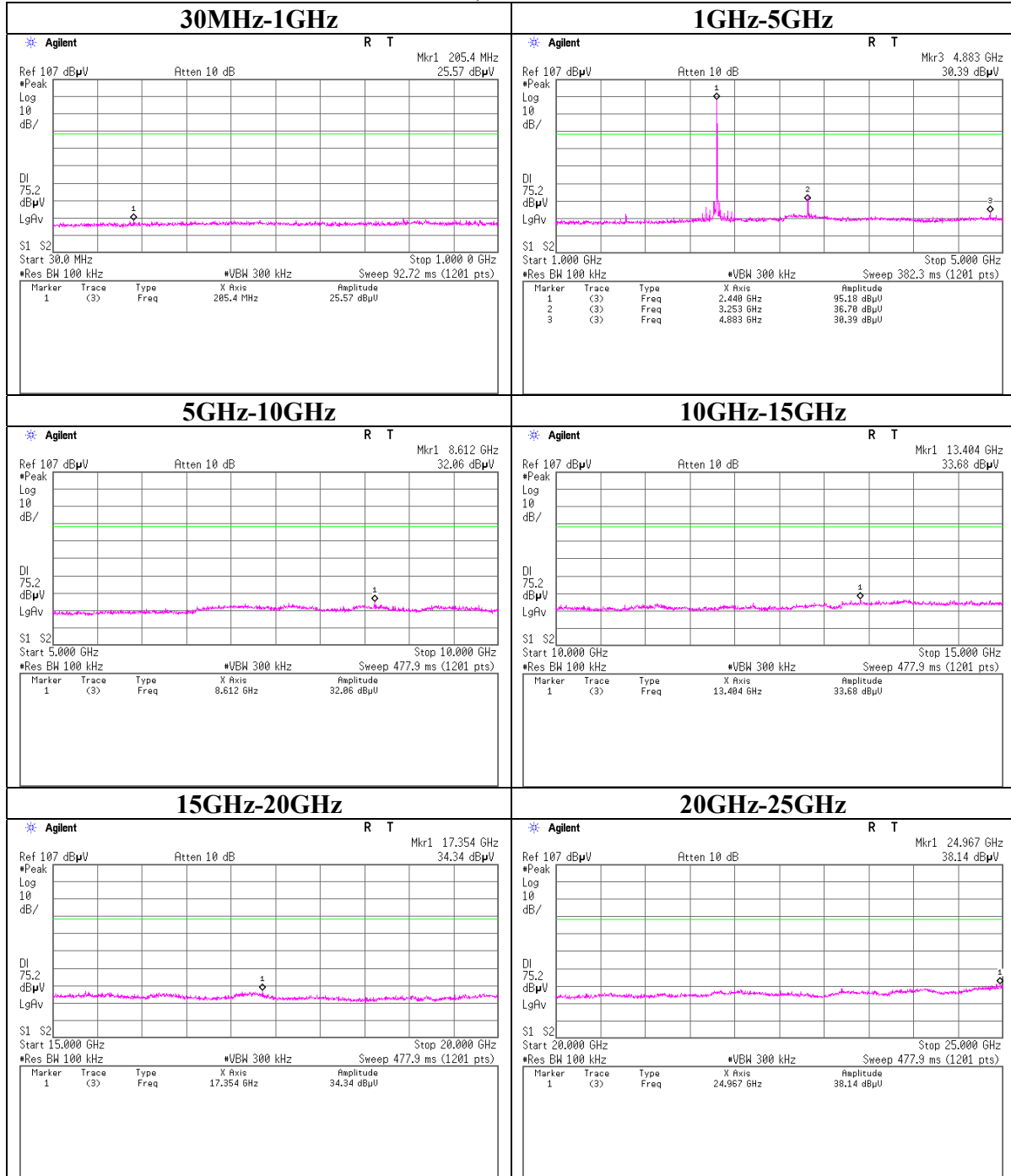
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Conducted Spurious Emission

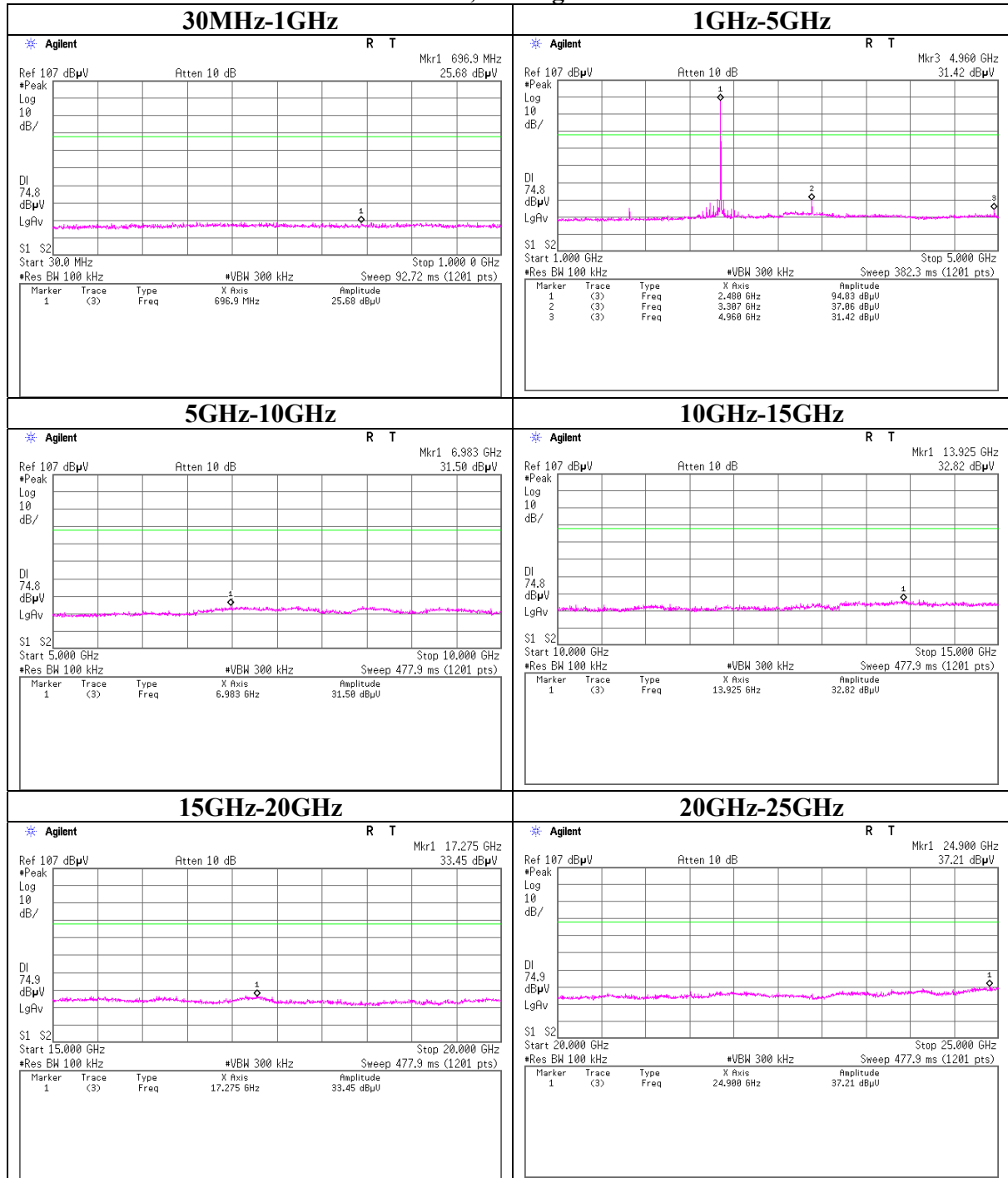
Tx, Ch:Low



Conducted Spurious Emission
Tx, Ch:Mid

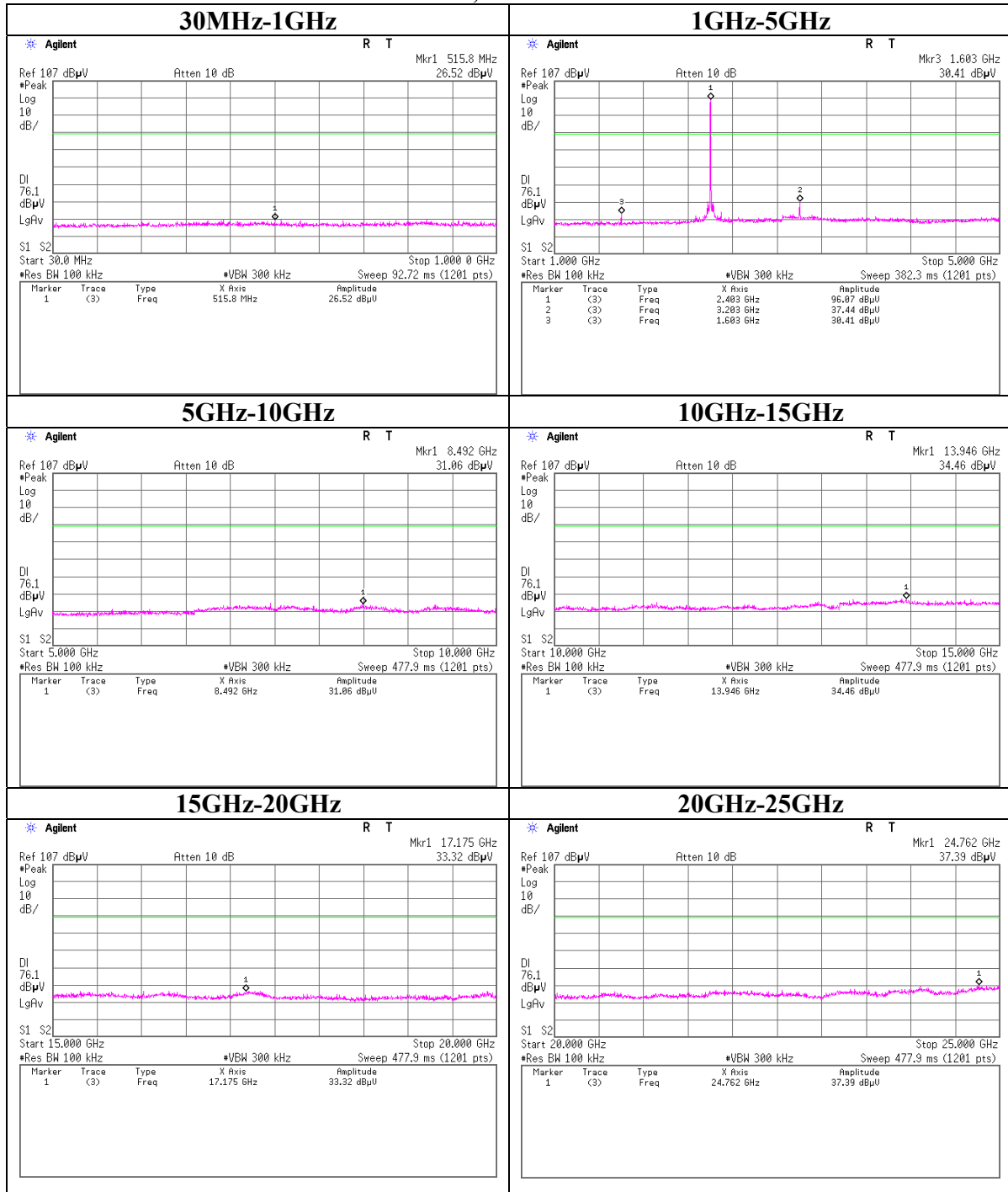


Conducted Spurious Emission
Tx, Ch:High

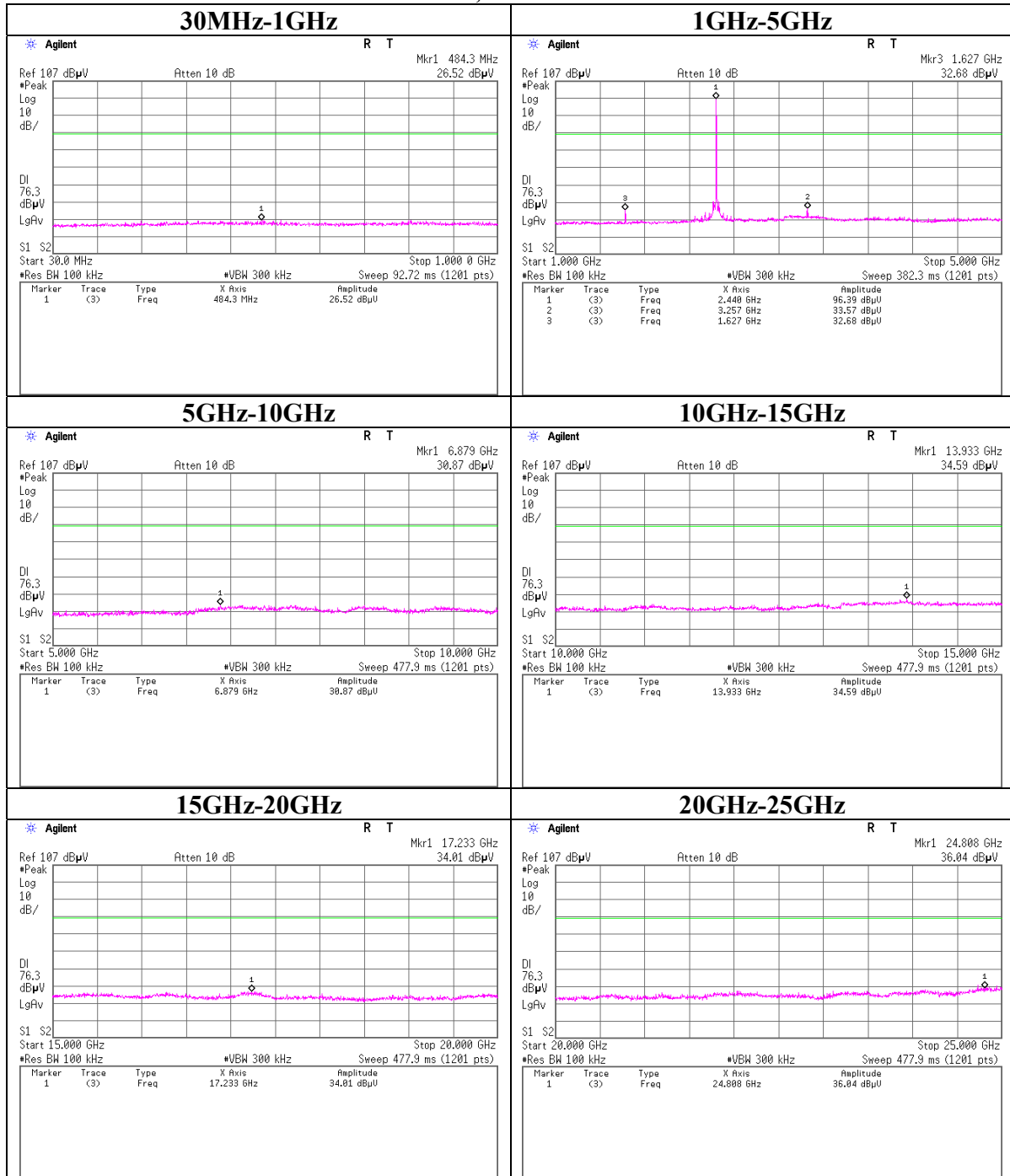


Conducted Spurious Emission (EDR)

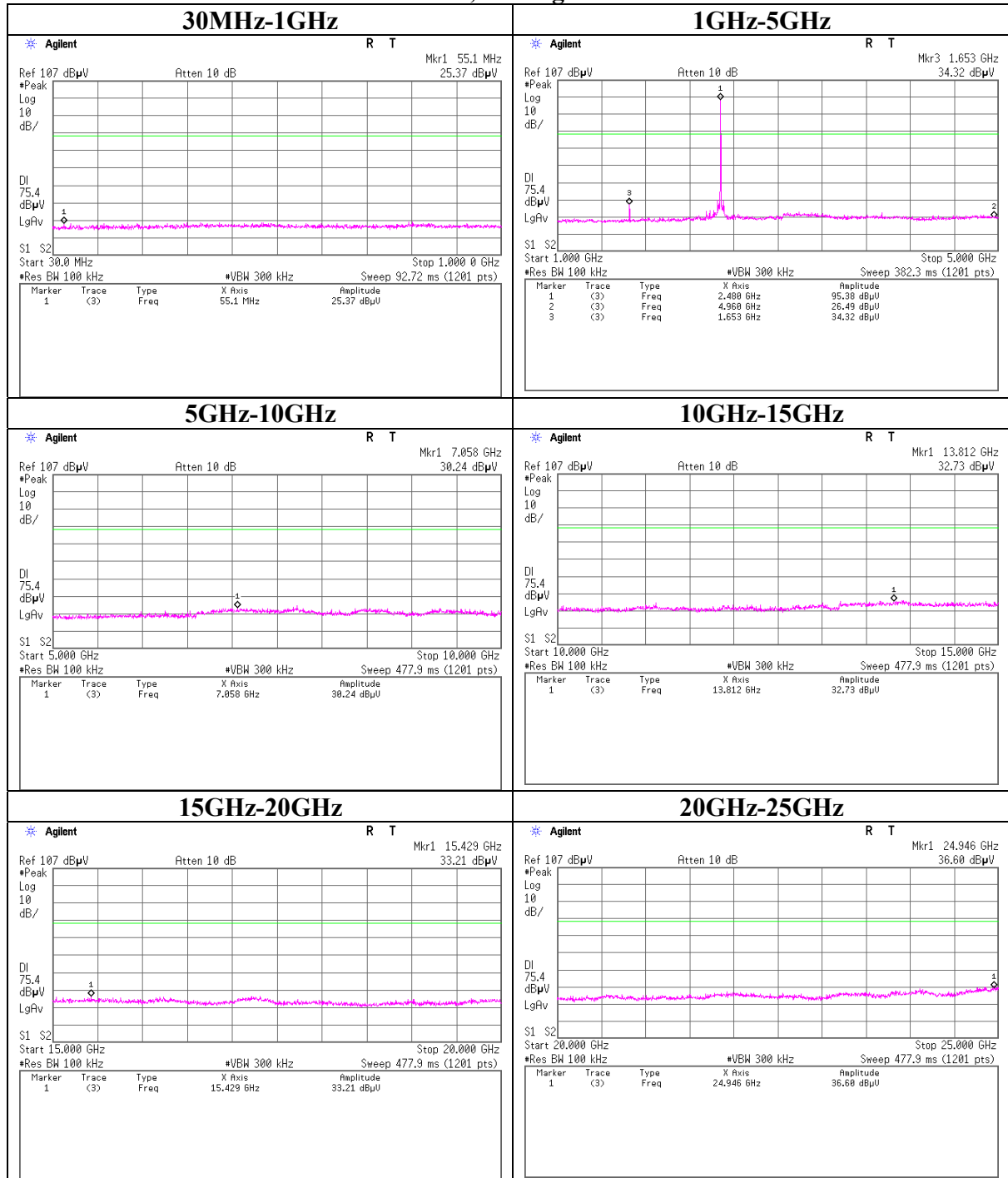
Tx, Ch:Low



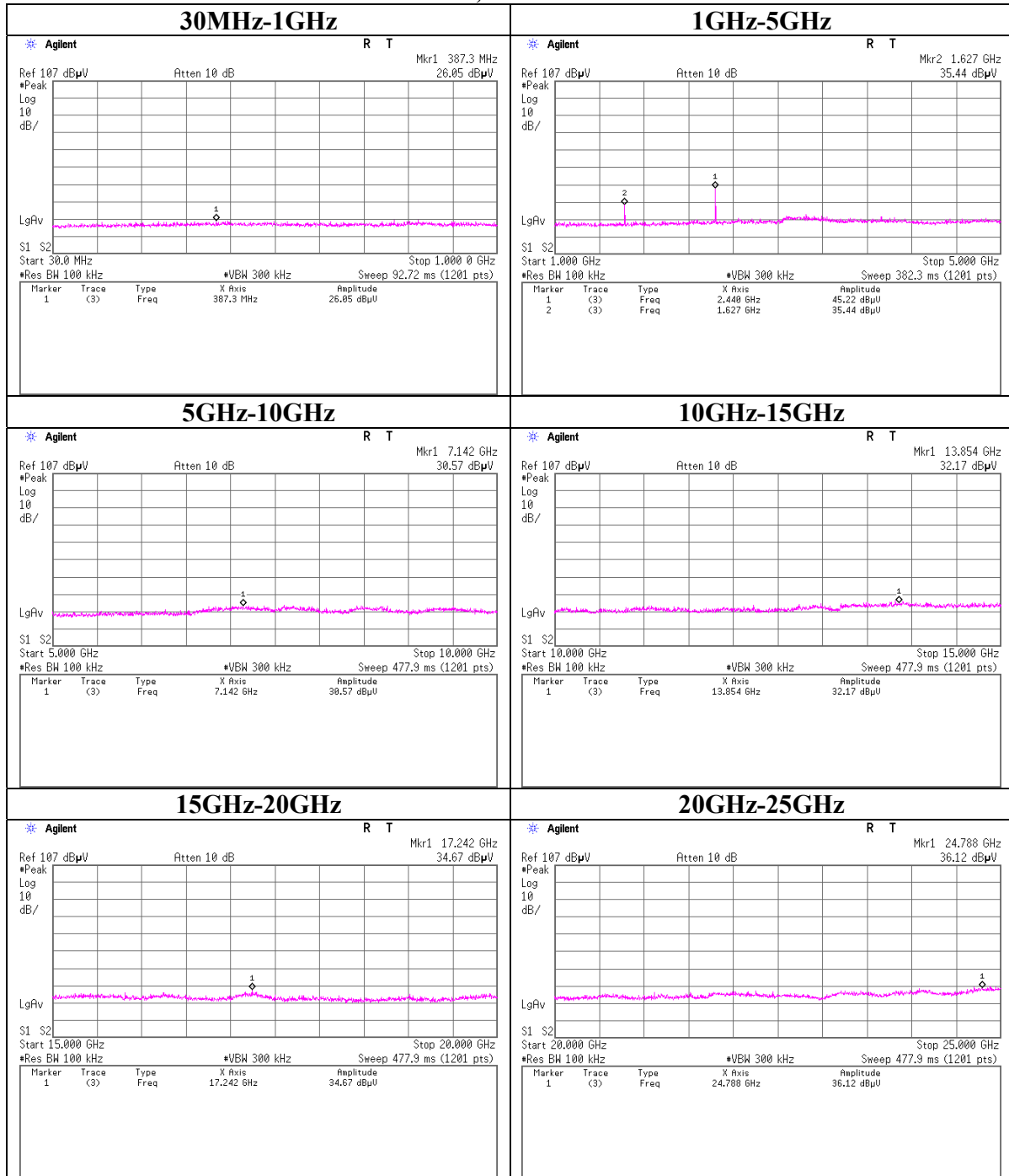
Conducted Spurious Emission (EDR)
Tx, Ch:Mid



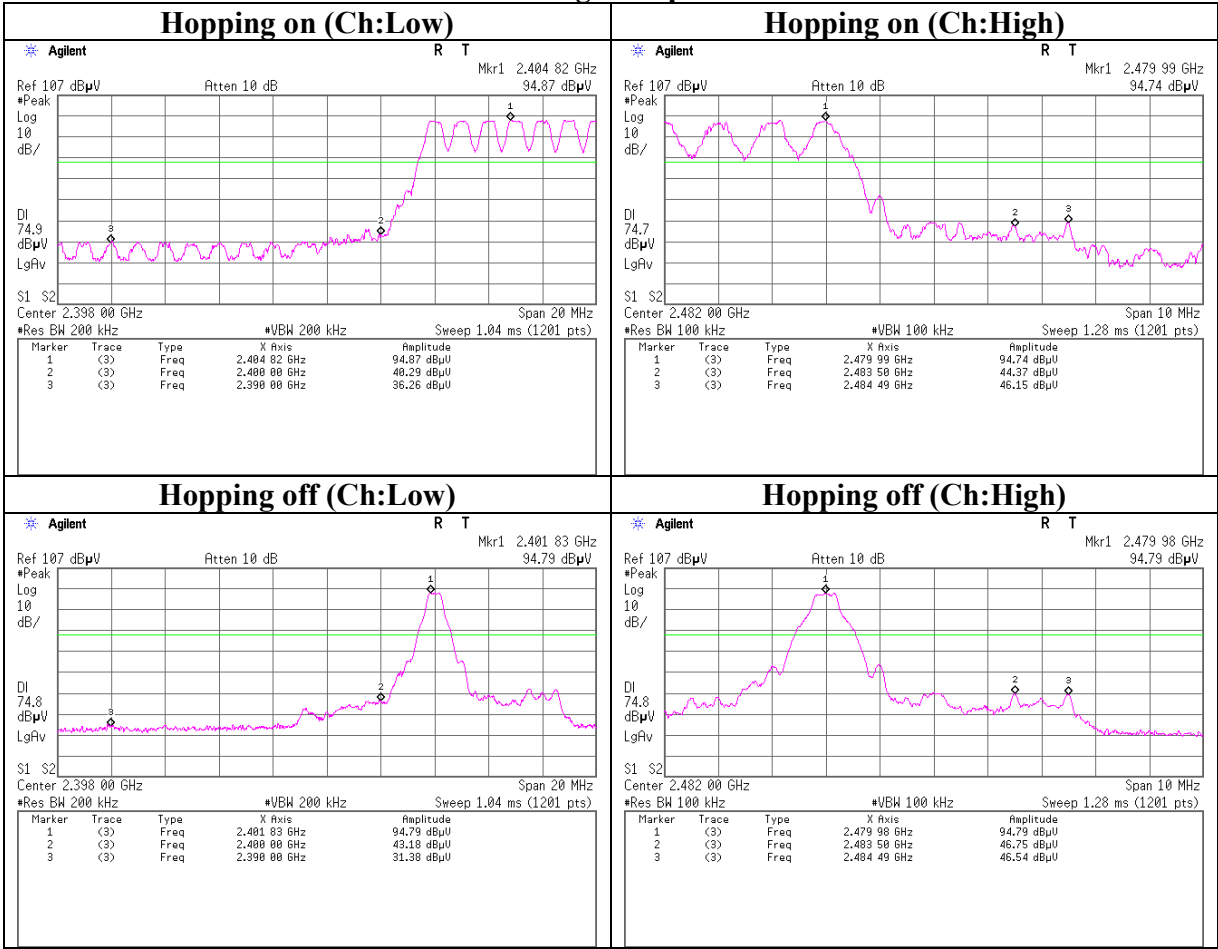
Conducted Spurious Emission (EDR)
Tx, Ch:High



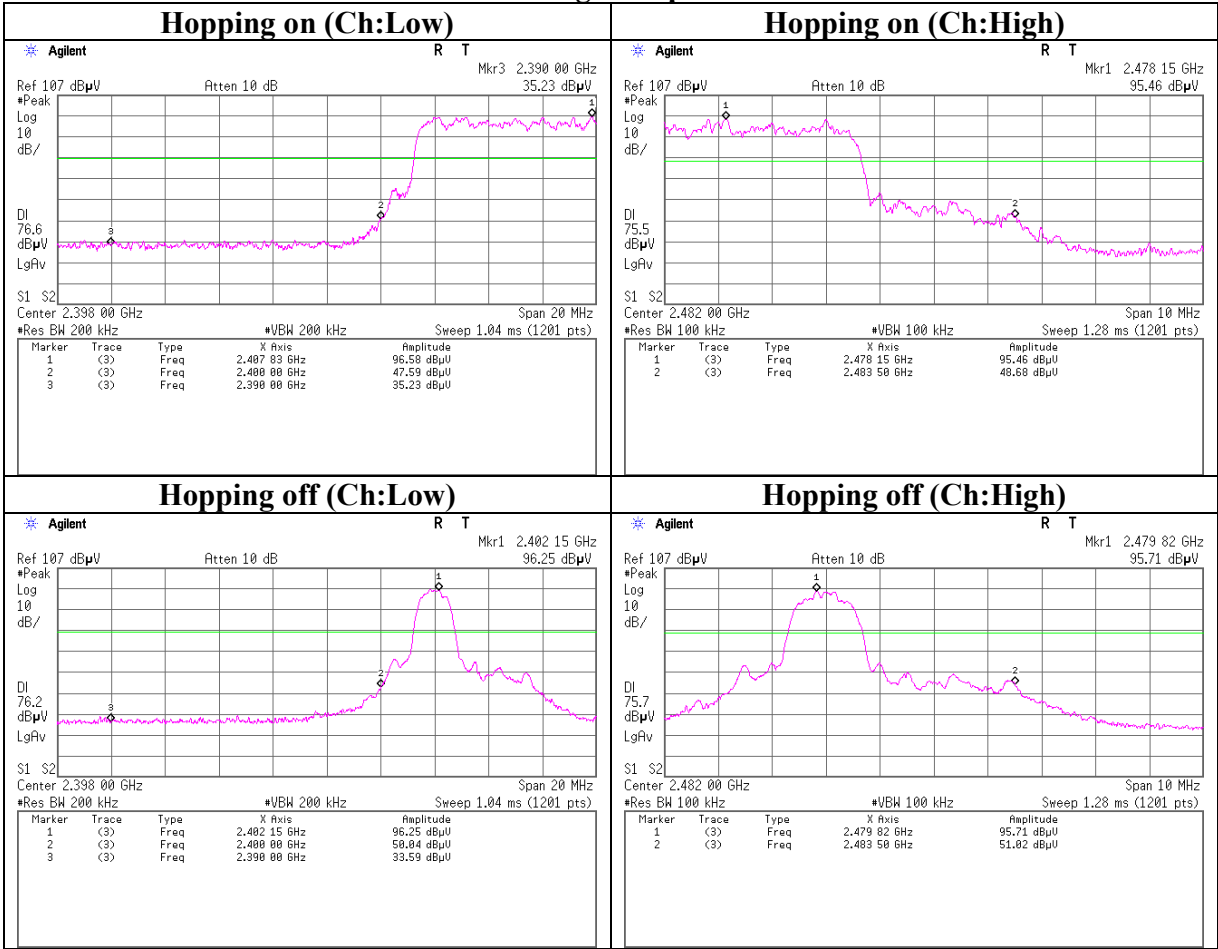
Conducted Spurious Emission
Rx, Ch:Mid



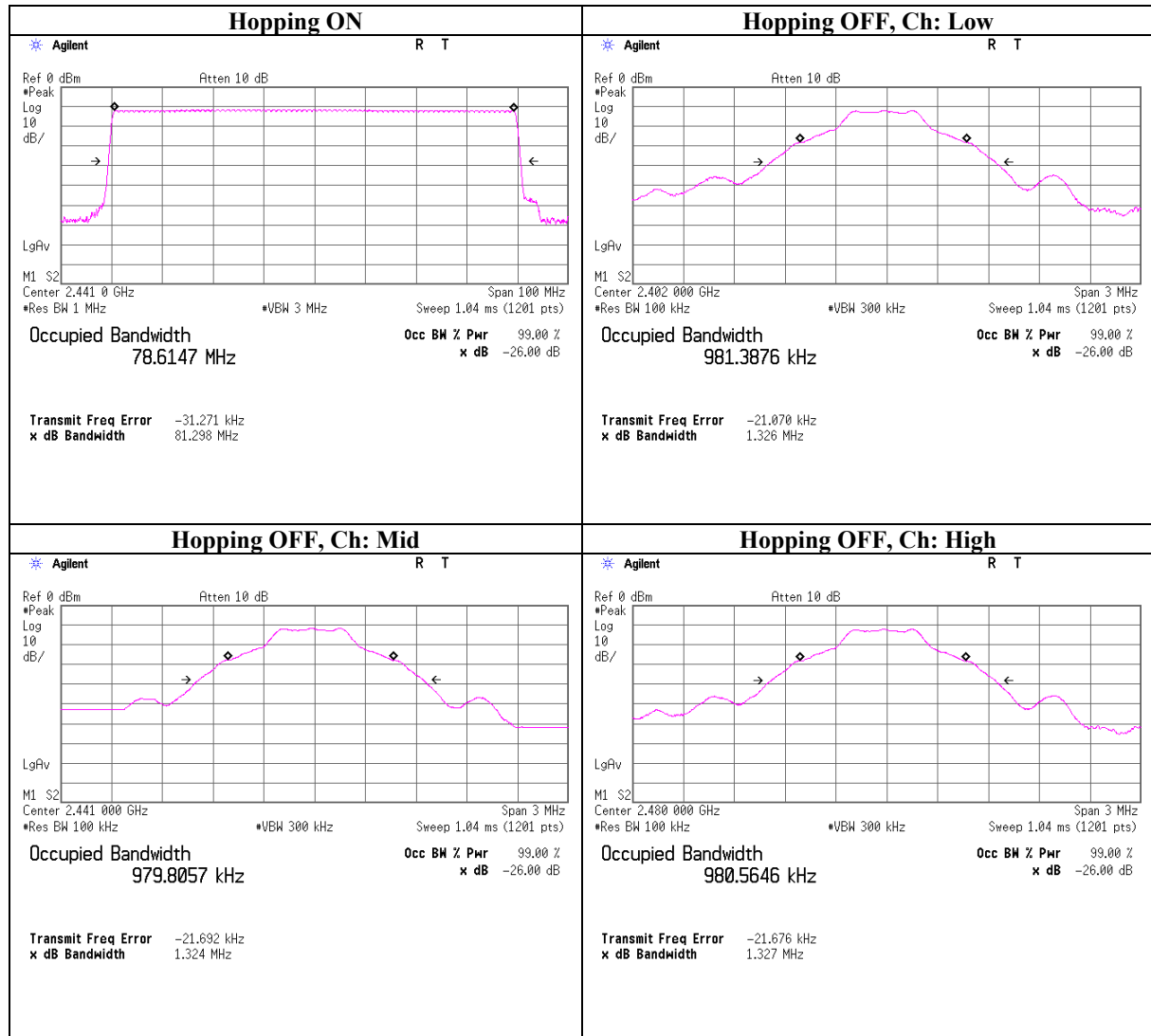
Conducted Spurious Emission
Band Edge compliance



Conducted Spurious Emission (EDR)
Band Edge compliance

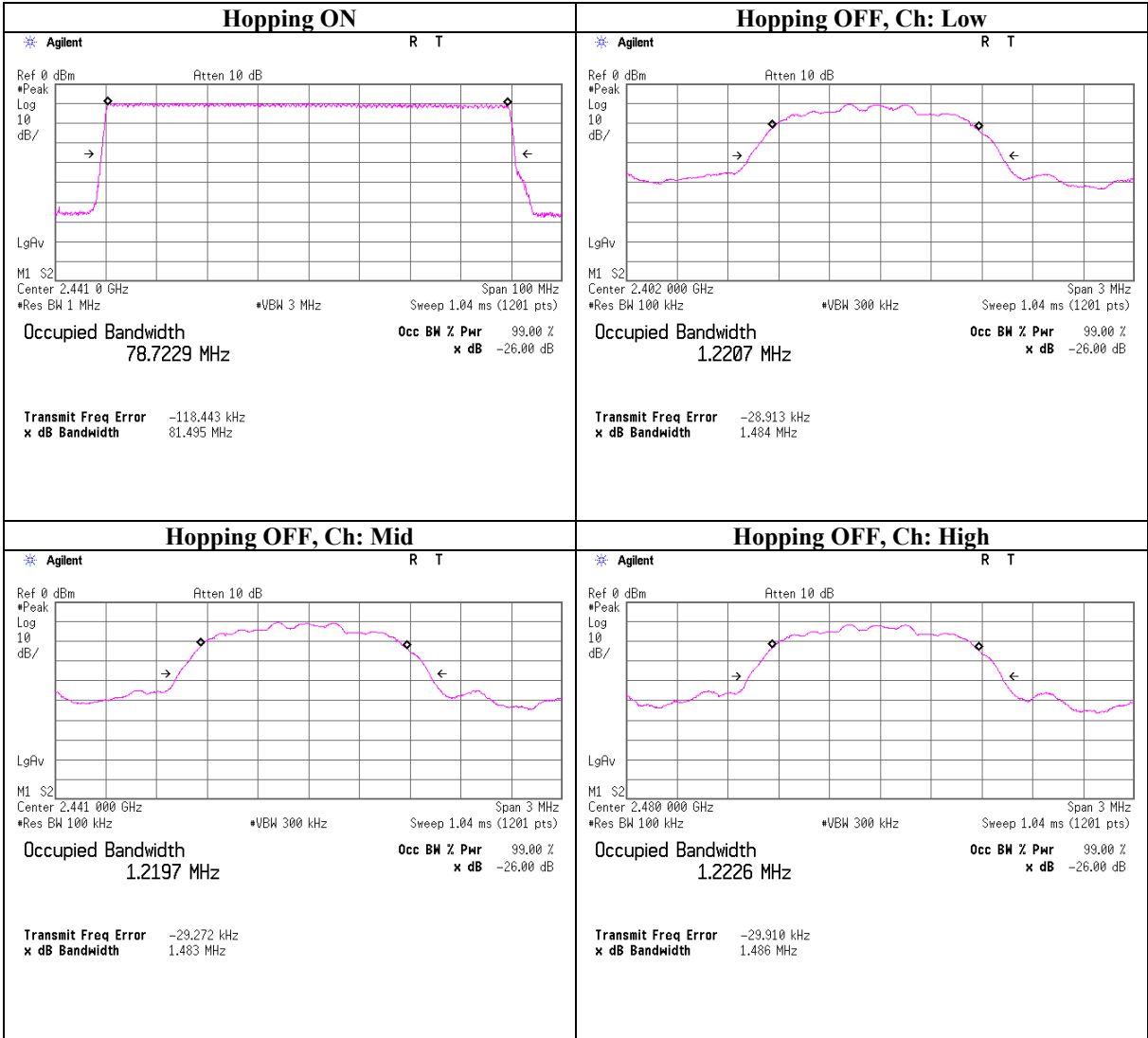


99% Occupied Bandwidth



*Refer to 20dB Bandwidth for 99% Bandwidth inquiry mode

99% Occupied Bandwidth(EDR)



*Refer to 20dB Bandwidth for 99% Bandwidth inquiry mode

APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/03/05 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	RE / AT	2006/09/13 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2007/05/31 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MJM-06	Measure	PROMART	SEN1955	RE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/01/19 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/01/19 * 12
MCC-51	Coaxial cable	UL Japan	-	RE	2007/03/05 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2007/03/05 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2007/03/16 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/29 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/02 * 12
MHF-12	High Pass Filter 3.5-18GHz	TOKIMEC	TF323DCA	RE	2006/12/18 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MCC-66	Microwave Cable 1G-40GHz	Schner	SUCOFLEX102	AT	2007/04/03 * 12
MAT-22	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24

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:

RE: Radiated Emission

AT: Antenna Terminal Conducted test

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