

APPENDIX 2: Data of EMI test

Conducted Emission
Tx, Ch. Low

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
Date : 2007/06/29

Company

Kind of EUT

Model No.

Serial No.

: Fujitsu Limited

: B-PAD

: CA06178-A521

: 0001

Report No.

Power

Temp./Humi.

Operator

: 27KE0162-HO

: AC 120V / 60Hz

: 26deg.C / 64%

: Hisayoshi Sato

Mode / Remarks : Bluetooth DHS Tx 2402MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

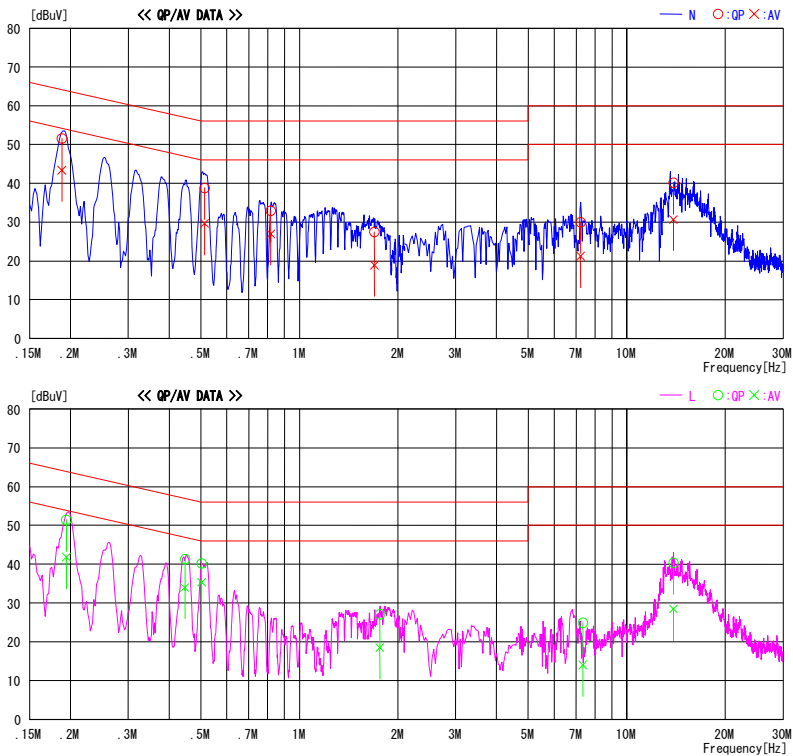


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
Tx, Ch. Low

DATA OF CONDUCTED EMISSION TEST

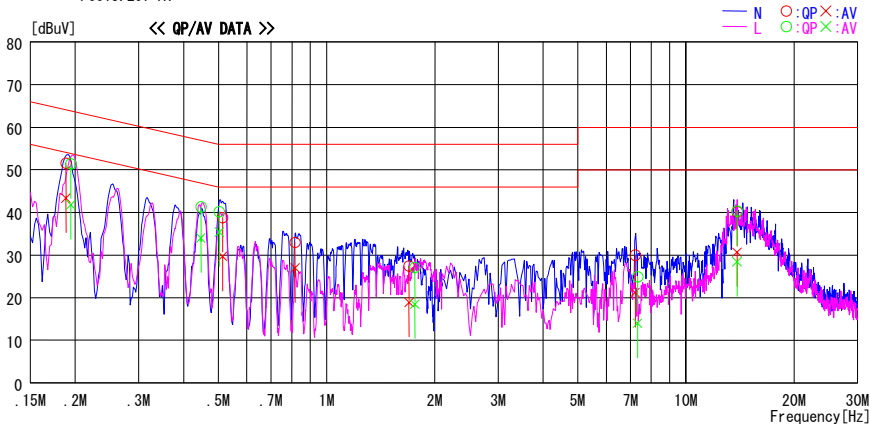
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/06/29

Company : Fujitsu Limited
Kind of EUT : B-PAD
Model No. : CA06178-A521
Serial No. : 0001

Report No. : 27KE0162-HO
Power : AC 120V / 60Hz
Temp./Humi. : 26deg.C / 64%
Operator : Hisayoshi Sato

Mode / Remarks : Bluetooth DH5 Tx 2402MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



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]	
0.18820	51.3	43.1	0.3	51.6	43.4	64.1	54.1	12.5	10.7	N
0.51350	38.5	29.4	0.3	38.8	29.7	56.0	46.0	17.2	16.3	N
0.81730	32.7	26.7	0.3	33.0	27.0	56.0	46.0	23.0	19.0	N
1.69590	27.1	18.5	0.4	27.5	18.9	56.0	46.0	28.5	27.1	N
7.22490	29.0	20.2	1.0	30.0	21.2	60.0	50.0	30.0	28.8	N
13.87970	38.8	29.3	1.4	40.2	30.7	60.0	50.0	19.8	19.3	N
0.19425	51.1	41.5	0.3	51.4	41.8	63.9	53.9	12.5	12.1	L
0.44665	41.0	33.7	0.3	41.3	34.0	56.9	46.9	15.6	12.9	L
0.50300	39.9	35.1	0.3	40.2	35.4	56.0	46.0	15.8	10.6	L
1.75820	26.7	18.1	0.4	27.1	18.5	56.0	46.0	28.9	27.5	L
7.33340	23.9	13.0	1.0	24.9	14.0	60.0	50.0	35.1	36.0	L
13.87070	38.9	27.0	1.4	40.3	28.4	60.0	50.0	19.7	21.6	L

CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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

Conducted Emission Tx, Ch. Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/06/29

Company : Fujitsu Limited
Kind of EUT : B-PAD
Model No. : CA06178-A521
Serial No. : 0001

Report No. : 27KE0162-HO
Power : AC 120V / 60Hz
Temp./Humi. : 26deg.C / 64%
Operator : Hisayoshi Sato

Mode / Remarks : Bluetooth DH5 Tx 2441MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

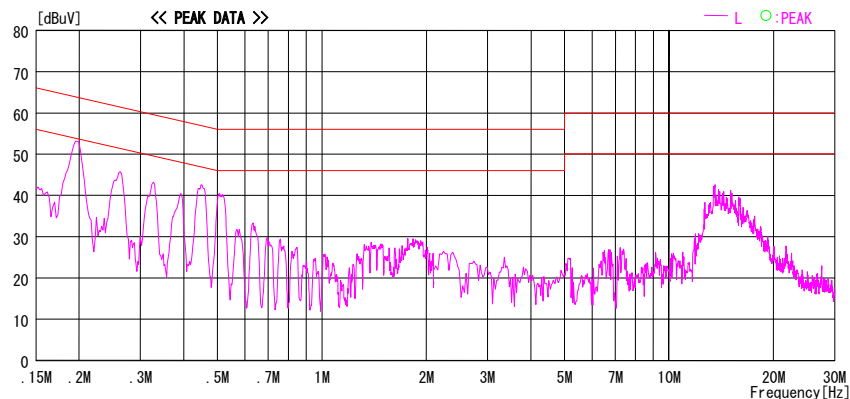
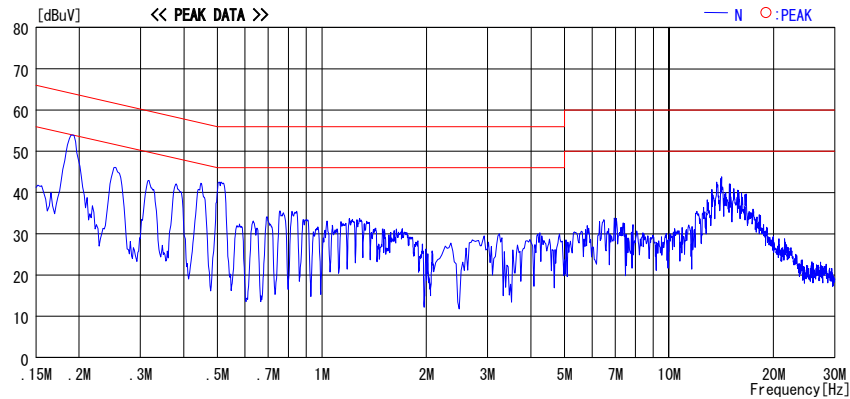


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

Tx, Ch. High

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber

Date : 2007/06/29

Company : Fujitsu Limited

Kind of EUT : B-PAD

Model No. : CA06178-A521

Serial No. : 0001

Report No. : 27KE0162-H0

Power : AC 120V / 60Hz

Temp. /Humi. : 26deg.C / 64%

Operator : Hisayoshi Sato

Mode / Remarks : Bluetooth DH5 Tx 2480MHz

LIMIT : FCC15.207 QP

FCC15.207 AV

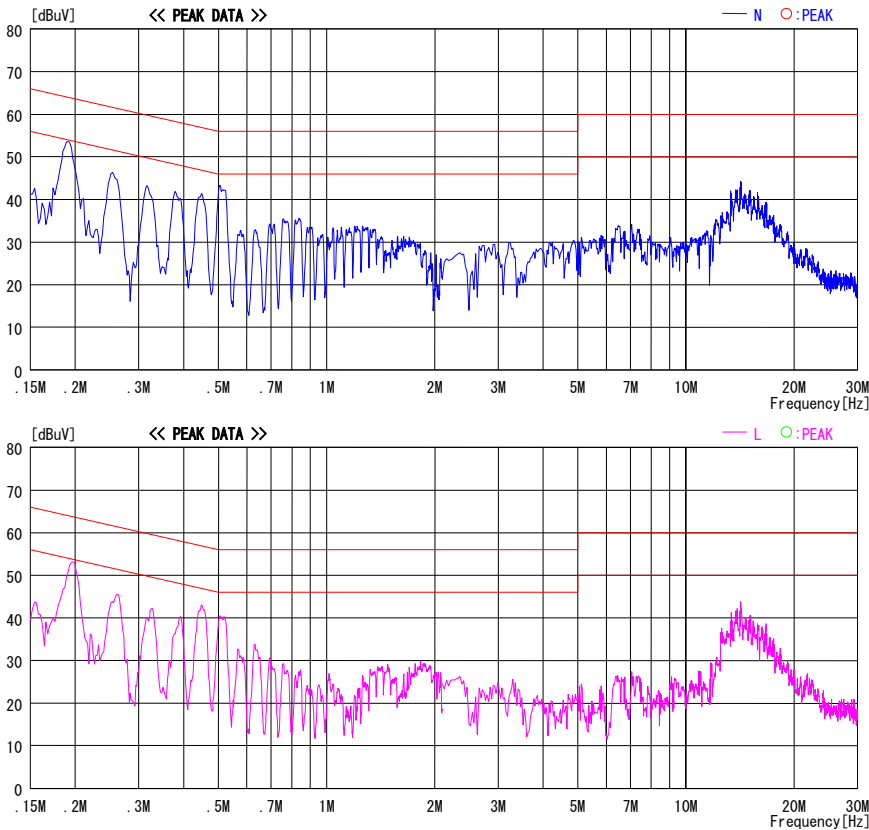


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)

Except for the above table : adequate margin data below the limits.

Conducted Emission

Rx, Ch. Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber

Date : 2007/06/29

Company : Fujitsu Limited

Kind of EUT : B-PAD

Model No. : CAO6178-A521

Serial No. : 0001

Report No. : 27KE0162-H0

Power : AC 120V / 60Hz

Temp. /Humi. : 26deg.C / 64%

Operator : Hisayoshi Sato

Mode / Remarks : Bluetooth Rx 2441MHz

LIMIT : FCC15.207 QP

FCC15.207 AV

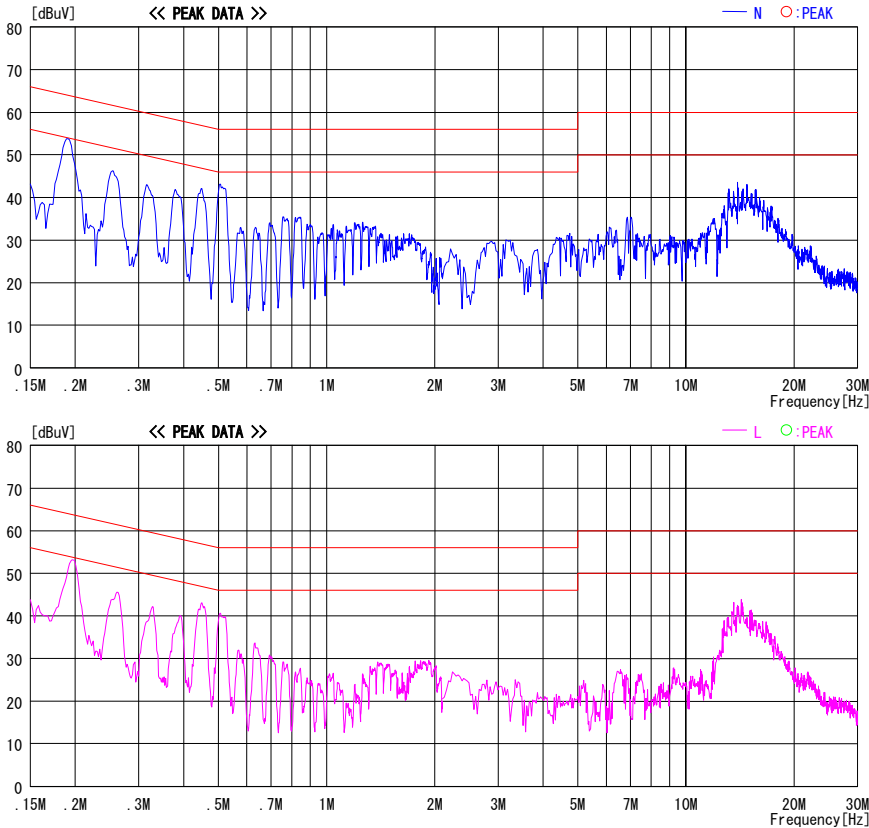


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)

Except for the above table : adequate margin data below the limits.

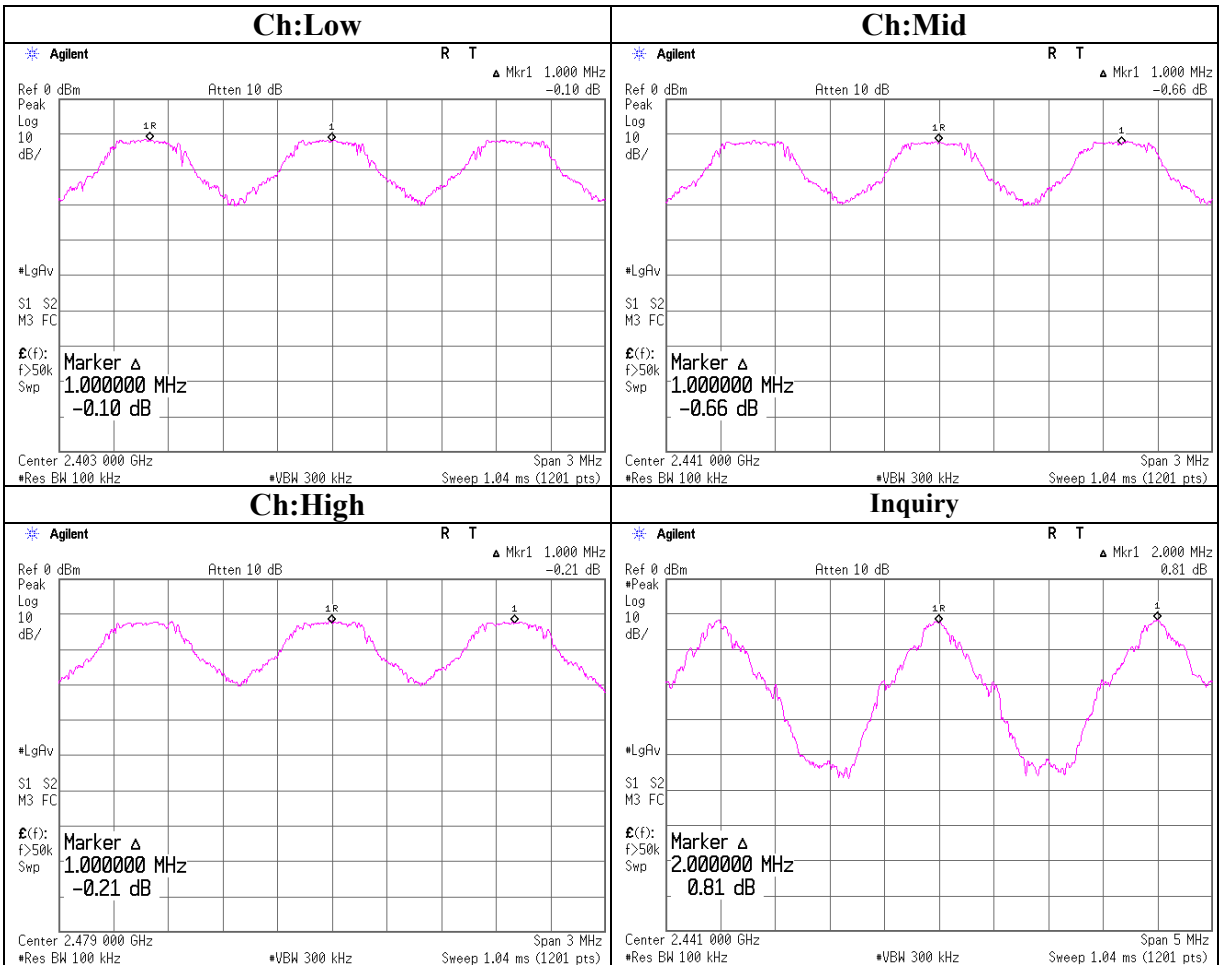
Carrier Frequency Separation

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Fujitsu Limited	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(b)
EQUIPMENT	: B-PAD	TEST DISTANCE	: -
MODEL	: CA06178-A521	DATE	: 06/26/2007
S/ N	: 0001	TEMPERATURE	: 26°C
POWER	: DC 3.7V	HUMIDITY	: 59%
MODE	: Tx(Hopping on)/Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>two-thirds of the 950[kHz](20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of the 950[kHz](20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of the 952[kHz](20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of the 800[kHz](20dB Bandwidth) or 25[kHz](whichever is greater)

Carrier Frequency Separation



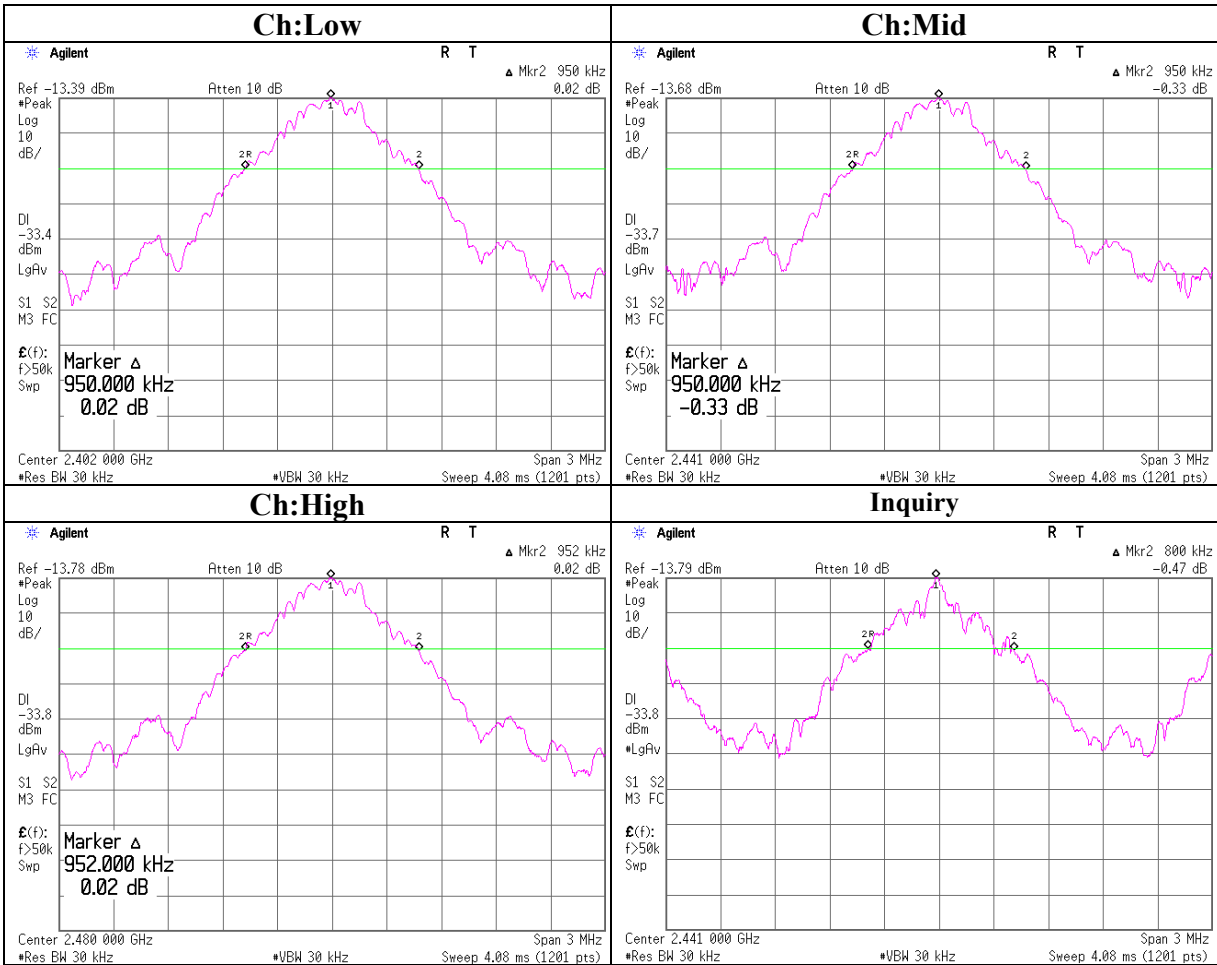
20dB Bandwidth

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Fujitsu Limited	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(a)
EQUIPMENT	: B-PAD	TEST DISTANCE	: -
MODEL	: CA06178-A521	DATE	: 06/26/2007
S/ N	: 0001	TEMPERATURE	: 26℃
POWER	: DC 3.7V	HUMIDITY	: 59%
MODE	: Tx (Hopping off) /Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.950	-
Mid	2441.0	0.950	-
High	2480.0	0.952	-
Inquiry	2441.0	0.800	-

20dB Bandwidth



Number of Hopping Frequency

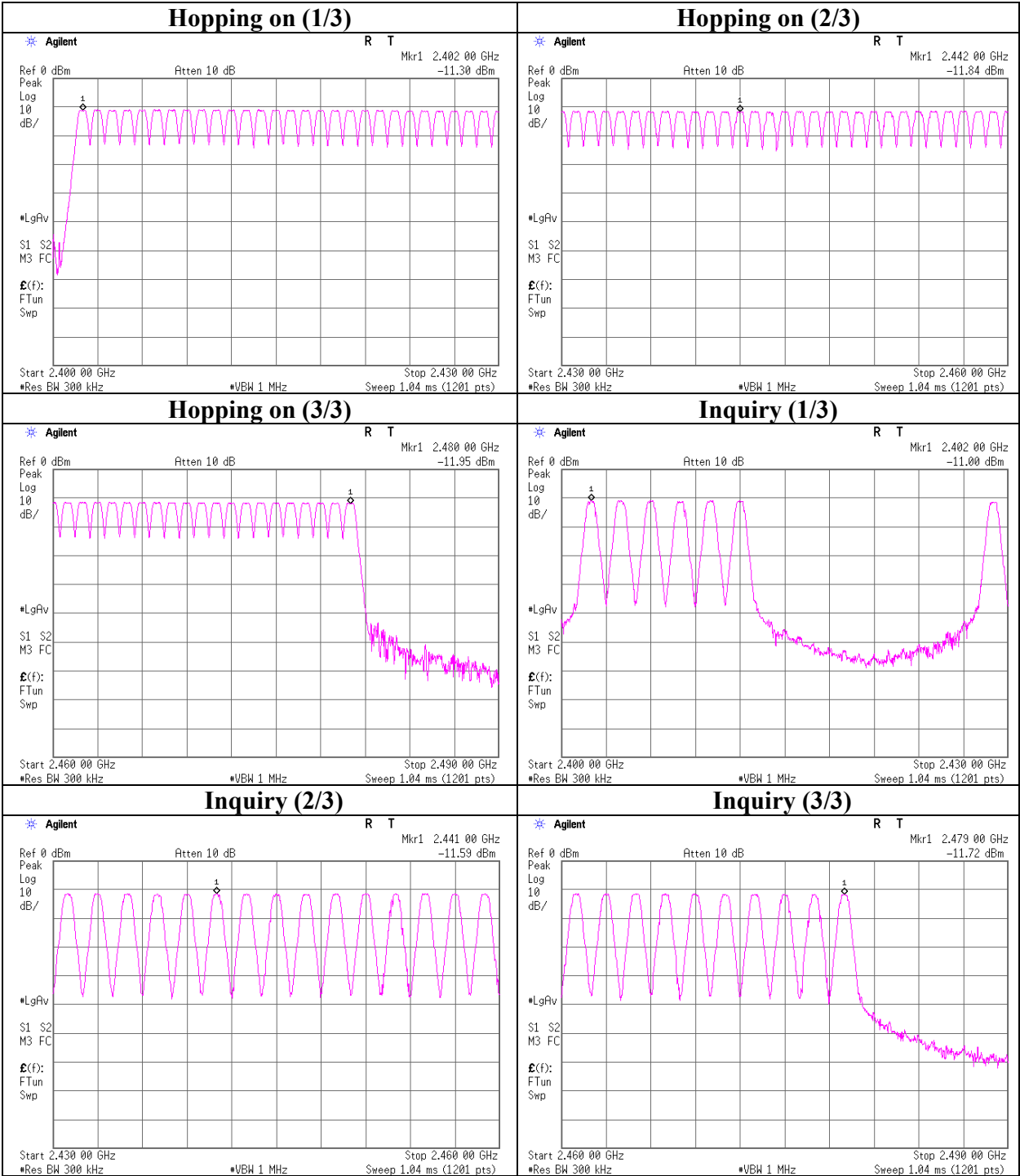
UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Fujitsu Limited	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
EQUIPMENT	: B-PAD	TEST DISTANCE	: -
MODEL	: CA06178-A521	DATE	: 06/26/2007
S/ N	: 0001	TEMPERATURE	: 26°C
POWER	: DC 3.7V	HUMIDITY	: 59%
MODE	: Tx (Hopping on) /Inquiry	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

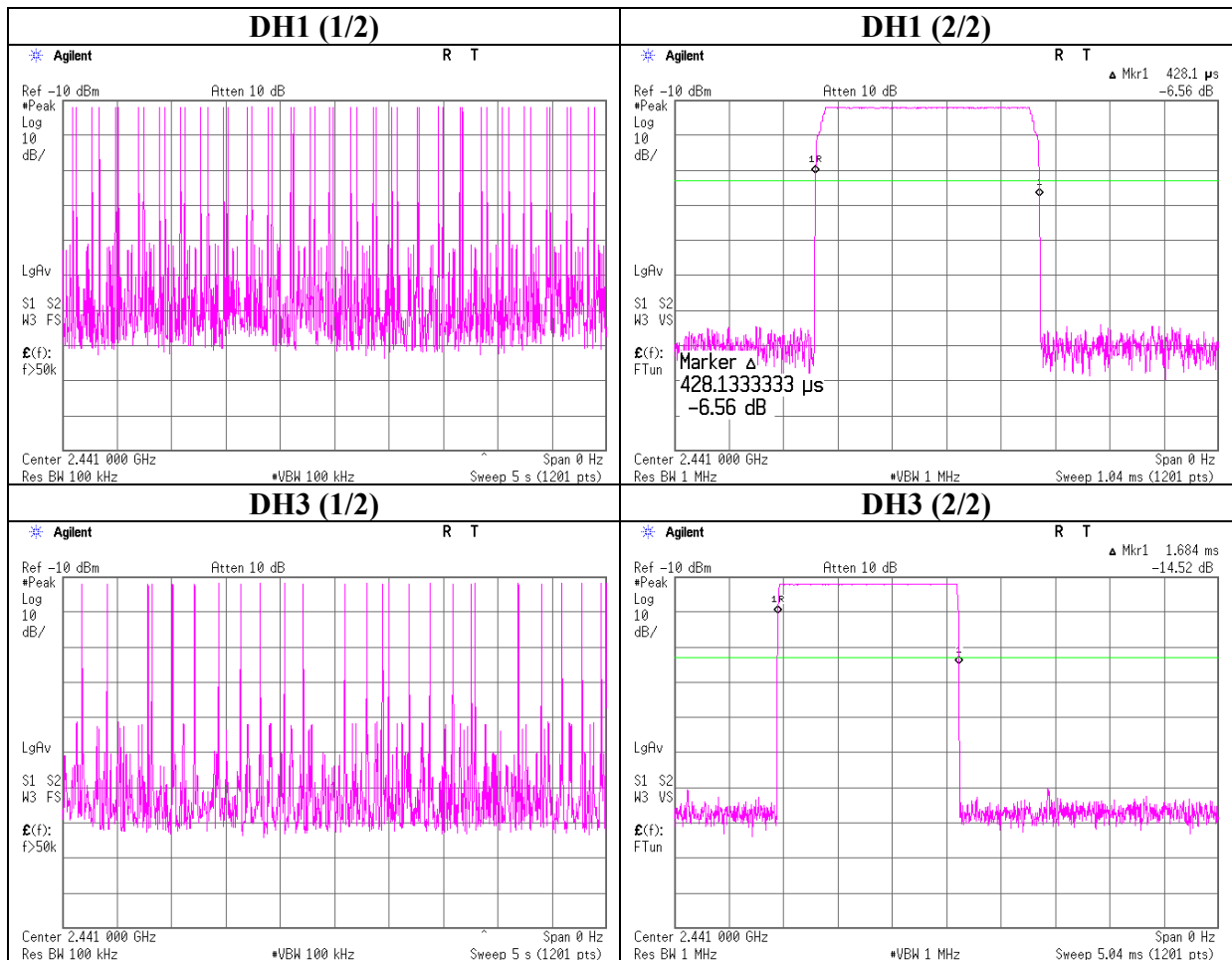
UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

Company	: Fujitsu Limited	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
Equipment	: B-PAD	TEST DISTANCE	: -
Model	: CA06178-A521	DATE	: 06/26/2007
Sample No.	: 0001	TEMPERATURE	: 26°C
Power	: DC 3.7V	HUMIDITY	: 59%
Mode	: Tx (Hopping on) /Inquiry	ENGINEER	: Shinya Watanabe

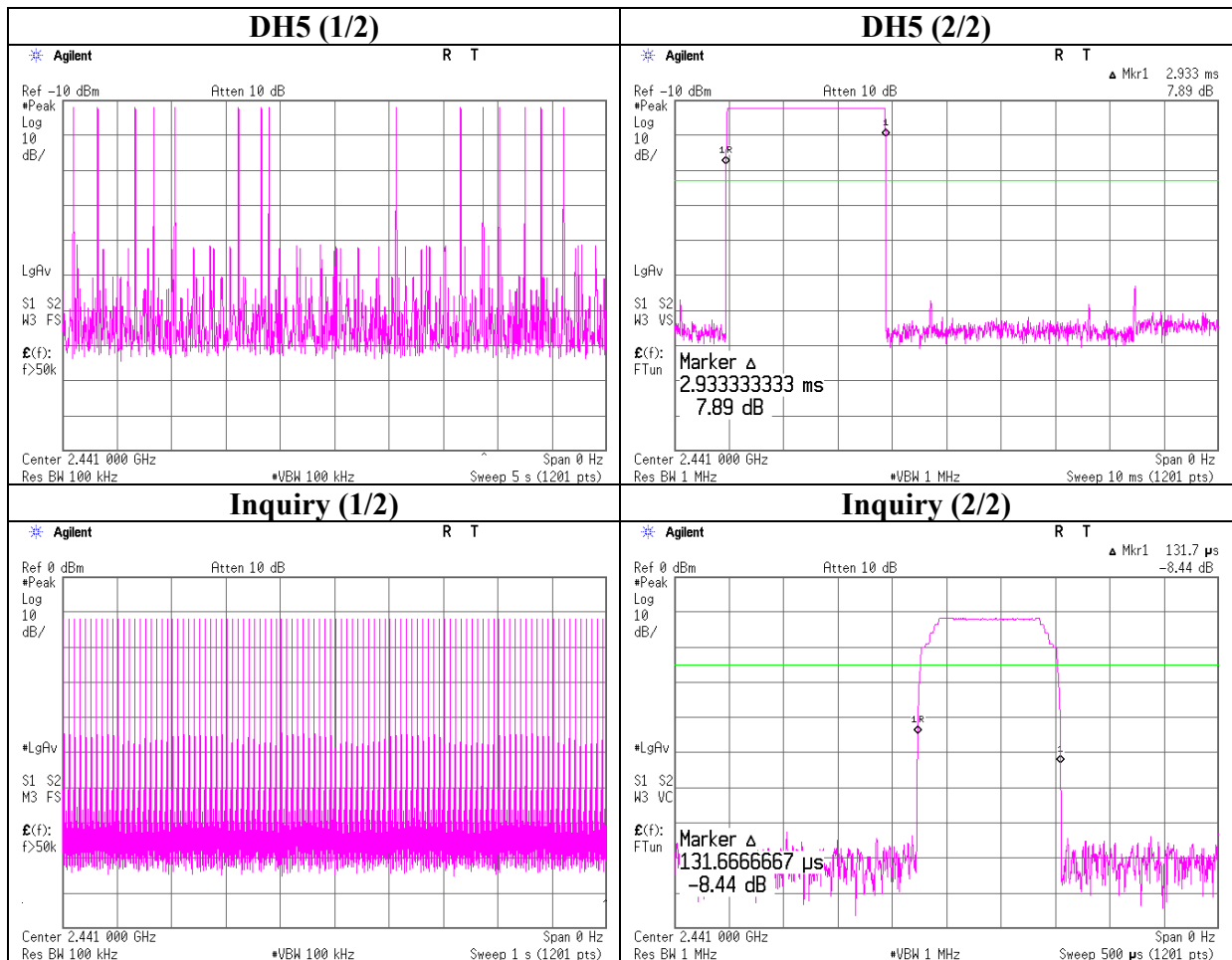
Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	50 times / 5 sec. x 31.6 sec. = 316 times	0.428	135	400
DH3	29 times * / 5 sec. x 31.6 sec. = 181 times	1.684	305	400
DH5	17 times * / 5 sec. x 31.6 sec. = 105 times	2.933	308	400
Inquiry	100 times / 1 sec. x 12.8 sec. = 1280 times	0.132	169	400

* Average value of five tests

Dwell time



Dwell time



Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Fujitsu Limited	REGULATION	: FCC15.247(b)(1)/RSS-210A8.4(2)
EQUIPMENT	: B-PAD	TEST DISTANCE	: -
MODEL	: CA06178-A521	DATE	: 06/26/2007
S/ N	: 0001	TEMPERATURE	: 26°C
POWER	: DC 3.7V	HUMIDITY	: 59%
MODE	: Tx(Hopping Off)/Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-10.06	0.63	9.98	0.55	1.14	20.97	125	20.42
Mid	2441.0	-10.37	0.63	10.03	0.29	1.07	20.97	125	20.68
High	2480.0	-10.64	0.63	10.03	0.02	1.00	20.97	125	20.95
Inquiry	2441.0	-10.38	0.63	10.03	0.28	1.07	20.97	125	20.69

Sample Calculation:

Result = Reading + Cable Loss+ Attenuator

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

DATA OF RADIATED EMISSION TEST

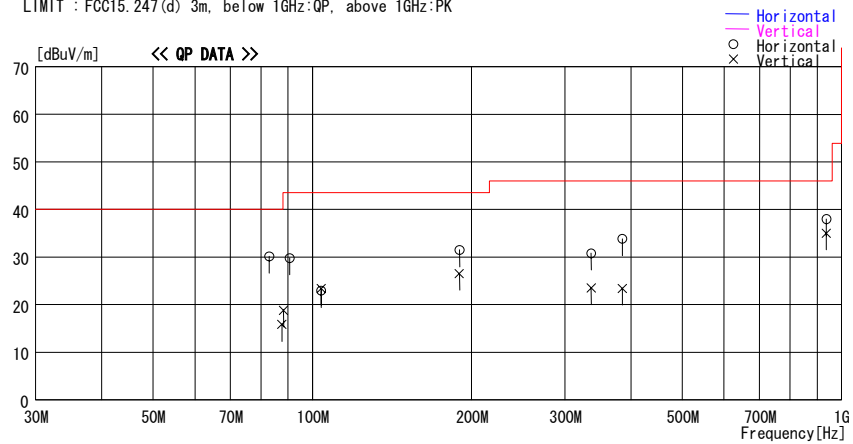
UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
Date : 2007/06/28

Company : Fujitsu Limited.
Kind of EUT : B-PAD
Model No. : CA06178-A521
Serial No. : 0001

Report No. : 27KE0162-HO
Power : DC 3.7V
Temp./Humi. : 26deg. C / 59%
Operator : Hisayoshi Sato

Mode / Remarks : Bluetooth DH5 2402MHz Max-Axis

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



Frequency	Reading	DET	Antenna	Loss &	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
87.605	31.6	QP	8.3	-24.1	15.8	191	278	Vert.	40.0	24.2
88.246	34.5	QP	8.4	-24.1	18.8	191	278	Vert.	43.5	24.7
90.552	45.2	QP	8.7	-24.1	29.8	251	337	Hori.	43.5	13.7
82.833	46.8	QP	7.5	-24.2	30.1	251	337	Hori.	40.0	9.9
103.987	36.3	QP	11.0	-23.9	23.4	359	301	Vert.	43.5	20.1
104.010	35.8	QP	11.0	-23.9	22.9	230	270	Hori.	43.5	20.6
189.640	37.8	QP	16.6	-22.9	31.5	197	168	Hori.	43.5	12.0
189.629	32.8	QP	16.6	-22.9	26.5	112	211	Vert.	43.5	17.0
336.464	28.7	QP	16.6	-21.8	23.5	218	185	Vert.	46.0	22.5
336.455	36.0	QP	16.6	-21.8	30.8	257	100	Hori.	46.0	15.2
385.412	37.9	QP	17.4	-21.5	33.8	107	102	Hori.	46.0	12.2
385.393	27.5	QP	17.4	-21.5	23.4	163	139	Vert.	46.0	22.6
935.980	31.0	QP	24.8	-17.8	38.0	225	100	Hori.	46.0	8.0
935.979	28.0	QP	24.8	-17.8	35.0	59	107	Vert.	46.0	11.0

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

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

DATA OF RADIATED EMISSION TEST

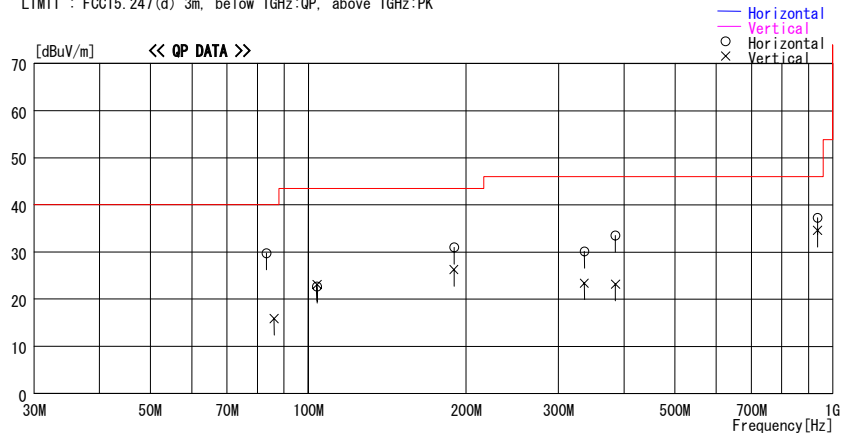
UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
Date : 2007/06/28

Company : Fujitsu Limited
Kind of EUT : B-PAD
Model No. : CA06178-A521
Serial No. : 0001

Report No. : 27KE0162-H0
Power : DC 3.7V
Temp./Humi. : 26deg.C / 59%
Operator : Hisayoshi Sato

Mode / Remarks : Bluetooth DH5 2480MHz Max-Axis

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



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit		Margin
			Factor	Loss & Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
83.211	46.4	QP	7.5	-24.1	29.8	251	337	Hori.	40.0	10.2	
86.120	32.0	QP	8.0	-24.1	15.9	191	278	Vert.	40.0	24.1	
103.965	36.0	QP	11.0	-23.9	23.1	359	301	Vert.	43.5	20.4	
104.010	35.6	QP	11.0	-23.9	22.7	230	279	Hori.	43.5	20.8	
189.616	32.6	QP	16.6	-22.9	26.3	112	211	Vert.	43.5	17.2	
189.711	37.3	QP	16.6	-22.9	31.0	195	169	Hori.	43.5	12.5	
336.211	28.6	QP	16.6	-21.8	23.4	218	185	Vert.	46.0	22.6	
336.429	35.3	QP	16.6	-21.8	30.1	257	100	Hori.	46.0	15.9	
385.367	27.3	QP	17.4	-21.5	23.2	163	139	Vert.	46.0	22.8	
935.879	27.6	QP	24.8	-17.8	34.6	56	105	Vert.	46.0	11.4	
935.433	37.6	QP	17.4	-21.5	33.5	102	107	Hori.	46.0	12.5	
935.880	30.3	QP	24.8	-17.8	37.3	225	100	Hori.	46.0	8.7	

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

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

DATA OF RADIATED EMISSION TEST

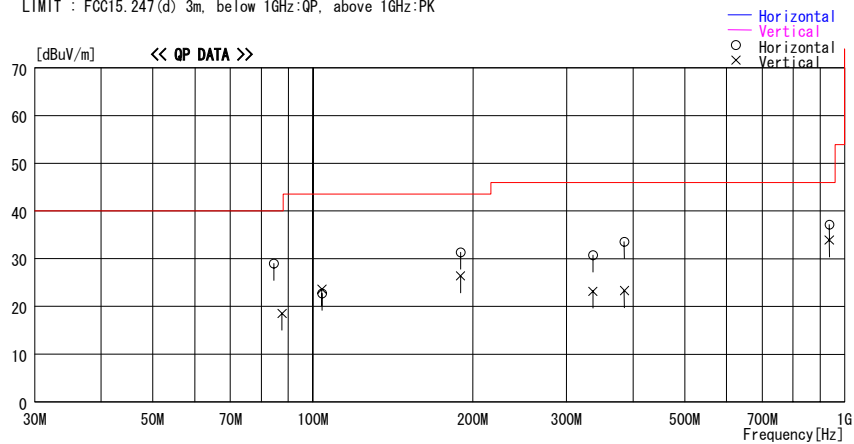
UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
Date : 2007/06/28

Company : Fujitsu Limited
Kind of EUT : B-PAD
Model No. : CA06178-A521
Serial No. : 0001

Report No. : 27KE0162-H0
Power : DC 3.7V
Temp./Humi. : 26deg. C / 59%
Operator : Hisayoshi Sato

Mode / Remarks : Bluetooth Rx 2441MHz Max-Axis

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
84.454	45.4	QP	7.7	-24.1	29.0	250	337	Hori.	40.0	11.0
87.505	34.4	QP	8.2	-24.1	18.5	190	275	Vert.	40.0	21.5
103.955	36.5	QP	11.0	-23.9	23.6	0	301	Vert.	43.5	19.9
104.023	35.6	QP	11.0	-23.9	22.7	230	270	Hori.	43.5	20.8
189.610	37.6	QP	16.6	-22.9	31.3	197	168	Hori.	43.5	12.2
189.653	32.7	QP	16.6	-22.9	26.4	112	211	Vert.	43.5	17.1
336.198	28.4	QP	16.6	-21.8	23.2	218	185	Vert.	46.0	22.8
336.455	36.0	QP	16.6	-21.8	30.8	257	100	Hori.	46.0	15.2
385.422	27.4	QP	17.4	-21.5	23.3	164	139	Vert.	46.0	22.7
935.899	26.9	QP	24.8	-17.8	33.9	59	107	Vert.	46.0	12.1
935.512	37.6	QP	17.4	-21.5	33.5	107	102	Hori.	46.0	12.5
935.980	30.1	QP	24.8	-17.8	37.1	225	102	Hori.	46.0	8.9

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)

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

Radiated Spurious Emission (above 1GHz)

Tx, Ch:Low

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Fujitsu Limited
Equipment : B-PAD
Model : CA06178-A521
Sample No. : 0001
Power : DC 3.7V
Mode : Tx 2402MHz
Remarks : Hor X , Ver Y-axis

REPORT NO : 27KE0162-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/27/2007
TEMPERATURE : 27deg.C
HUMIDITY : 59%
ENGINEER : Hisayoshi Sato

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	1143.9	54.2	56.9	24.6	33.7	1.8	0.0	46.9	49.6	73.9	27.0	24.3
2	2390.0	43.7	39.4	27.1	32.3	3.0	0.0	41.5	37.2	73.9	32.4	36.7
3*	2400.0	67.9	60.6	27.1	32.3	3.1	0.0	65.8	58.5	73.9	-	-
4	4803.9	44.7	43.9	31.3	31.6	4.2	0.5	49.1	48.3	73.9	24.8	25.6
5	7205.9	41.1	41.2	35.7	31.4	4.9	0.6	50.9	51.0	73.9	23.0	22.9
6	9608.1	42.9	41.4	38.5	31.9	5.9	0.8	56.2	54.7	73.9	17.7	19.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12010.0	41.2	40.2	39.1	31.1	6.7	0.0	46.4	45.4	73.9	27.5	28.5
8	14412.0	NS*	NS	40.9	31.2	6.9	0.7	NS	NS	73.9	NS	NS
9	16814.0	NS	NS	40.1	31.2	7.5	0.6	NS	NS	73.9	NS	NS
10	19216.0	NS	NS	37.5	31.7	7.9	0.0	NS	NS	73.9	NS	NS
11	21618.0	NS	NS	38.0	31.5	8.3	0.0	NS	NS	73.9	NS	NS
12	24020.0	43.5	43.5	40.6	30.7	9.8	0.0	53.7	53.7	73.9	20.2	20.2

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	1143.9	36.9	40.0	24.6	33.7	1.8	0.0	29.6	32.7	53.9	24.3	21.2
2	2390.0	30.3	30.3	27.1	32.3	3.0	0.0	28.1	28.1	53.9	25.8	25.8
3*	2400.0	58.5	52.6	27.1	32.3	3.1	0.0	56.4	50.5	53.9	-	-
4	4803.9	34.3	35.6	31.3	31.6	4.2	0.5	38.7	40.0	53.9	15.2	13.9
5	7205.9	30.4	30.4	35.7	31.4	4.9	0.6	40.2	40.2	53.9	13.7	13.7
6	9608.1	30.7	30.0	38.5	31.9	5.9	0.8	44.0	43.3	53.9	9.9	10.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12010.0	31.0	31.0	39.1	31.1	6.7	0.0	36.2	36.2	53.9	17.7	17.7
8	14412.0	NS	NS	40.9	31.2	6.9	0.7	NS	NS	53.9	NS	NS
9	16814.0	NS	NS	40.1	31.2	7.5	0.6	NS	NS	53.9	NS	NS
10	19216.0	NS	NS	37.5	31.7	7.9	0.0	NS	NS	53.9	NS	NS
11	21618.0	NS	NS	38.0	31.5	8.3	0.0	NS	NS	53.9	NS	NS
12	24020.0	34.3	34.4	40.6	30.7	9.8	0.0	44.5	44.6	53.9	9.4	9.3

*1: Reference data

*2: NS: Non signal

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]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2402.0	93.2	92.1	27.1	32.3	3.1	0.0	91.1	90.0	-	-	-
2	2400.0	44.2	38.7	27.1	32.3	3.1	0.0	42.1	36.6	Funda-20dB	29.0	33.4

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.

*NS: Non Signal

Test report No. : 27KE0162-HO-C
Page : 38 of 47
Issued date : August 8, 2007
FCC ID : EJE-BPAD05

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

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Fujitsu Limited
Equipment : B-PAD
Model : CA06178-A521
Sample No. : 0001
Power : DC 3.7V
Mode : Tx 2441MHz
Remarks : Hor X , Ver Y-axis

REPORT NO : 27KE0162-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/27/2007
TEMPERATURE : 27deg.C
HUMIDITY : 59%
ENGINEER : Hisayoshi Sato

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]		[dBuV/m]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1143.9	54.8	56.7	24.6	33.7	1.8	0.0	47.5	49.4	73.9	26.4	24.5
2	4882.0	45.1	45.5	31.4	31.6	4.2	0.4	49.5	49.9	73.9	24.4	24.0
3	7323.0	40.7	40.9	36.0	31.4	5.1	0.6	51.0	51.2	73.9	22.9	22.7
4	9764.0	43.0	42.7	38.7	32.0	5.8	0.7	56.2	55.9	73.9	17.7	18.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	40.0	39.8	39.2	30.9	6.8	0.0	45.6	45.4	73.9	28.3	28.5
6	14646.0	NS*	NS	40.7	31.1	7.0	0.6	NS	NS	73.9	NS	NS
7	17059.0	NS	NS	40.9	31.1	7.5	0.6	NS	NS	73.9	NS	NS
8	19528.0	NS	NS	37.5	31.8	7.9	0.0	NS	NS	73.9	NS	NS
9	21969.0	NS	NS	38.2	31.4	8.3	0.0	NS	NS	73.9	NS	NS
10	24410.0	43.7	44.0	40.7	30.6	10.0	0.0	54.3	54.6	73.9	19.6	19.3

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	VER					HOR	VER		HOR	VER
		[dBuV]						[dB/m]		[dB]		[dBuV/m]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1143.9	36.9	39.8	24.6	33.7	1.8	0.0	29.6	32.5	53.9	24.3	21.4
2	4882.0	37.9	36.0	31.4	31.6	4.2	0.4	42.3	40.4	53.9	11.6	13.5
3	7323.0	31.4	30.0	36.0	31.4	5.1	0.6	41.7	40.3	53.9	12.2	13.6
4	9764.0	31.6	31.6	38.7	32.0	5.8	0.7	44.8	44.8	53.9	9.1	9.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	30.0	30.1	39.2	30.9	6.8	0.0	35.6	35.7	53.9	18.3	18.2
6	14646.0	NS	NS	40.7	31.1	7.0	0.6	NS	NS	53.9	NS	NS
7	17059.0	NS	NS	40.9	31.1	7.5	0.6	NS	NS	53.9	NS	NS
8	19528.0	NS	NS	37.5	31.8	7.9	0.0	NS	NS	53.9	NS	NS
9	21969.0	NS	NS	38.2	31.4	8.3	0.0	NS	NS	53.9	NS	NS
10	24410.0	34.8	34.8	40.7	30.6	10.0	0.0	45.4	45.4	53.9	8.5	8.5

* 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 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.

*NS: Non Signal

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Test report No. : 27KE0162-HO-C
Page : 39 of 47
Issued date : August 8, 2007
FCC ID : EJE-BPAD05

Radiated Spurious Emission (above 1GHz)

Tx, Ch:High

UL Japan, Inc.
Head Office EMC Lab. No.2Semi Anechoic Chamber

Company : Fujitsu Limited
Equipment : B-PAD
Model : CA06178-A521
Sample No. : 0001
Power : DC 3.7V
Mode : Tx 2480MHz
Remarks : Hor X , Ver Y-axis

REPORT NO : 27KE0162-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/27/2007
TEMPERATURE : 27deg.C
HUMIDITY : 59%
ENGINEER : Hisayoshi Sato

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	1143.9	54.2	56.7	24.6	33.7	1.8	0.0	46.9	49.4	73.9	27.0	24.5
2	2483.5	53.9	45.0	27.2	32.3	2.8	0.0	51.6	42.7	73.9	22.3	31.2
3	4959.9	45.2	47.1	31.5	31.6	4.3	0.3	49.7	51.6	73.9	24.2	22.3
4	7439.9	40.5	40.2	36.2	31.4	5.2	0.6	51.1	50.8	73.9	22.8	23.1
5	9920.0	40.5	43.9	38.9	32.0	5.8	0.6	53.8	57.2	73.9	20.1	16.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12400.0	40.1	39.1	39.2	30.7	6.9	0.0	46.0	45.0	73.9	27.9	28.9
7	15200.0	NS*	NS	40.6	31.0	7.0	0.6	NS	NS	73.9	NS	NS
8	18000.0	NS	NS	42.3	31.1	7.5	0.7	NS	NS	73.9	NS	NS
9	20480.0	NS	NS	37.5	31.8	8.0	0.0	NS	NS	73.9	NS	NS
10	22960.0	NS	NS	38.3	31.3	8.4	0.0	NS	NS	73.9	NS	NS
11	24800.0	44.3	46.0	40.8	30.5	10.1	0.0	55.2	56.9	73.9	18.7	17.0

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

No.	FREQ	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
	[MHz]	HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1143.9	36.6	39.8	24.6	33.7	1.8	0.0	29.3	32.5	53.9	24.6	21.4
2	2483.5	42.2	39.1	27.2	32.3	2.8	0.0	39.9	36.8	53.9	14.0	17.1
3	4959.9	38.6	39.0	31.5	31.6	4.3	0.3	43.1	43.5	53.9	10.8	10.4
4	7439.9	31.2	30.2	36.2	31.4	5.2	0.6	41.8	40.8	53.9	12.1	13.1
5	9920.0	31.3	31.3	38.9	32.0	5.8	0.6	44.6	44.6	53.9	9.3	9.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12400.0	29.6	29.7	39.2	30.7	6.9	0.0	35.5	35.6	53.9	18.4	18.3
7	15200.0	NS	NS	40.6	31.0	7.0	0.6	NS	NS	53.9	NS	NS
8	18000.0	NS	NS	42.3	31.1	7.5	0.7	NS	NS	53.9	NS	NS
9	20480.0	NS	NS	37.5	31.8	8.0	0.0	NS	NS	53.9	NS	NS
10	22960.0	NS	NS	38.3	31.3	8.4	0.0	NS	NS	53.9	NS	NS
11	24800.0	35.7	35.7	40.8	30.5	10.1	0.0	46.6	46.6	53.9	7.3	7.3

* 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 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.

*NS: Non Signal

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Radiated Spurious Emission (above 1GHz)

Rx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Fujitsu Limited
Equipment : B-PAD
Model : CA06178-A521
Sample No. : 0001
Power : DC 3.7V
Mode : Tx 2441MHz
Remarks : Hor X , Ver Y-axis

REPORT NO : 27KE0162-HO
REGULATION : FCC15.247(d)/RSS-Gen 7.2.3
TEST DISTANCE : 3/1m
DATE : 06/27/2007
TEMPERATURE : 27deg.C
HUMIDITY : 59%
ENGINEER : Hisayoshi Sato

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

No.	FREQ	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
	[MHz]	HOR	VER					HOR	VER		HOR	VER
		[dBuV]							[dBuV/m]			[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1143.9	55.1	57.0	24.6	33.7	1.8	0.0	47.8	49.7	73.9	26.1	24.2
2	2441.0	40.1	39.5	27.2	32.3	3.1	0.0	38.1	37.5	73.9	35.8	36.4
3	4882.0	38.6	38.5	31.4	31.6	4.2	0.0	42.6	42.5	73.9	31.3	31.4
4	7323.0	39.0	38.7	36.0	31.4	5.1	0.0	48.7	48.4	73.9	25.2	25.5
5	9764.0	39.2	40.0	38.7	32.0	5.8	0.0	51.7	52.5	73.9	22.2	21.4

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

No.	FREQ	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
	[MHz]	HOR	VER					HOR	VER		HOR	VER
		[dBuV]							[dBuV/m]			[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1143.9	37.1	40.2	24.6	33.7	1.8	0.0	29.8	32.9	53.9	24.1	21.0
2	2441.0	30.2	30.1	27.2	32.3	3.1	0.0	28.2	28.1	53.9	25.7	25.8
3	4882.0	28.9	29.2	31.4	31.6	4.2	0.0	32.9	33.2	53.9	21.0	20.7
4	7323.0	29.2	29.3	36.0	31.4	5.1	0.0	38.9	39.0	53.9	15.0	14.9
5	9764.0	30.9	31.0	38.7	32.0	5.8	0.0	43.4	43.5	53.9	10.5	10.4

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

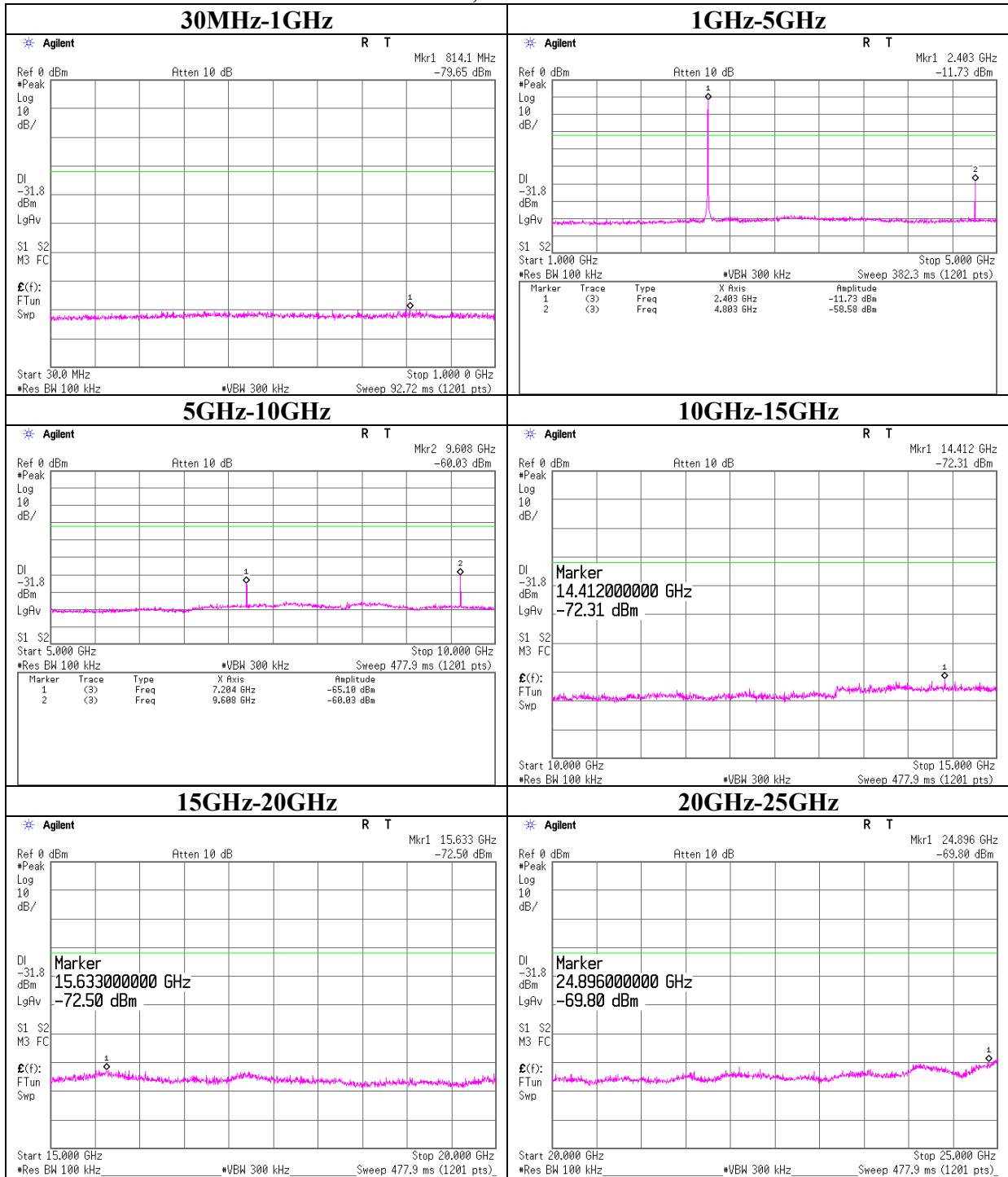
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

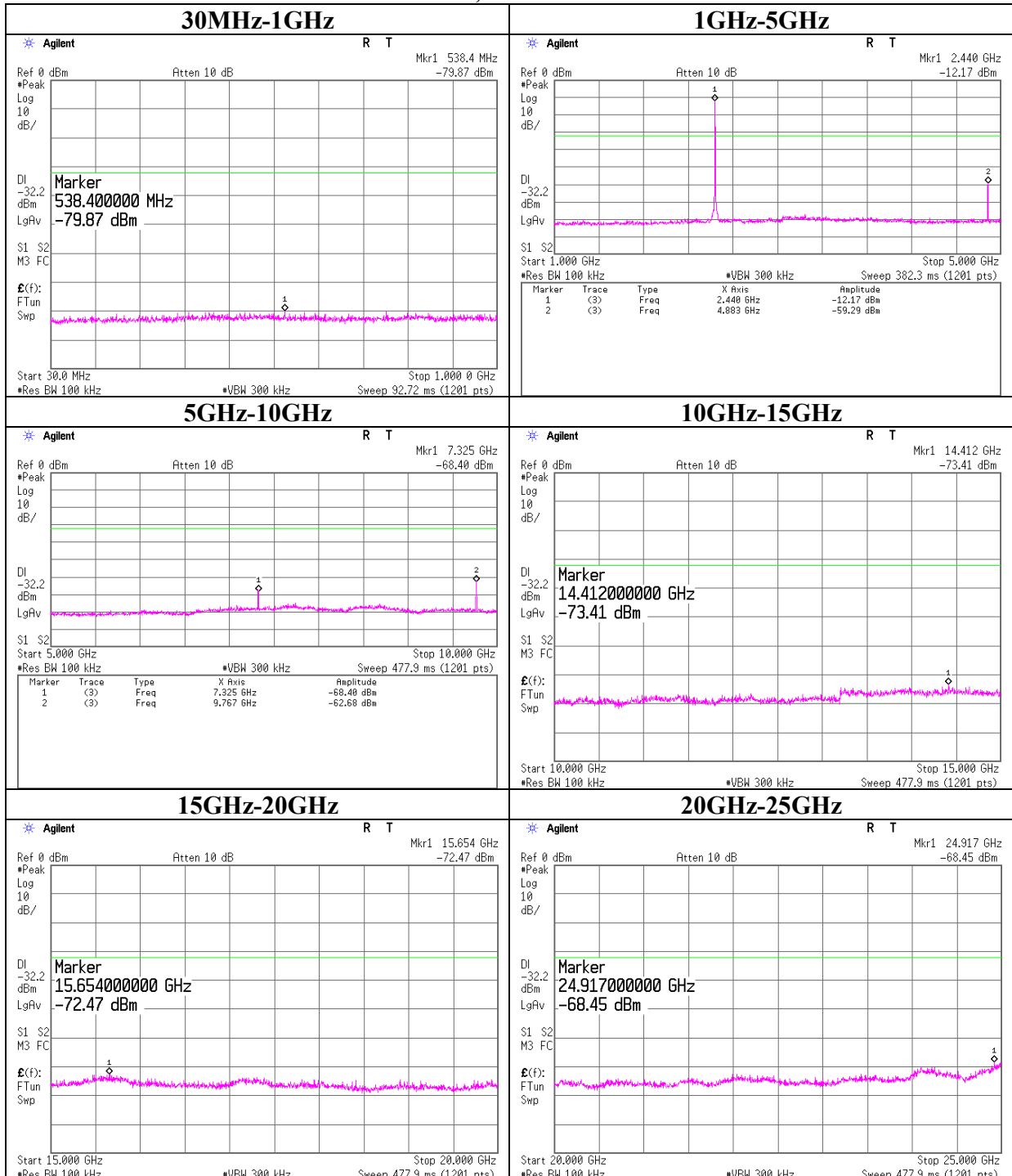
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

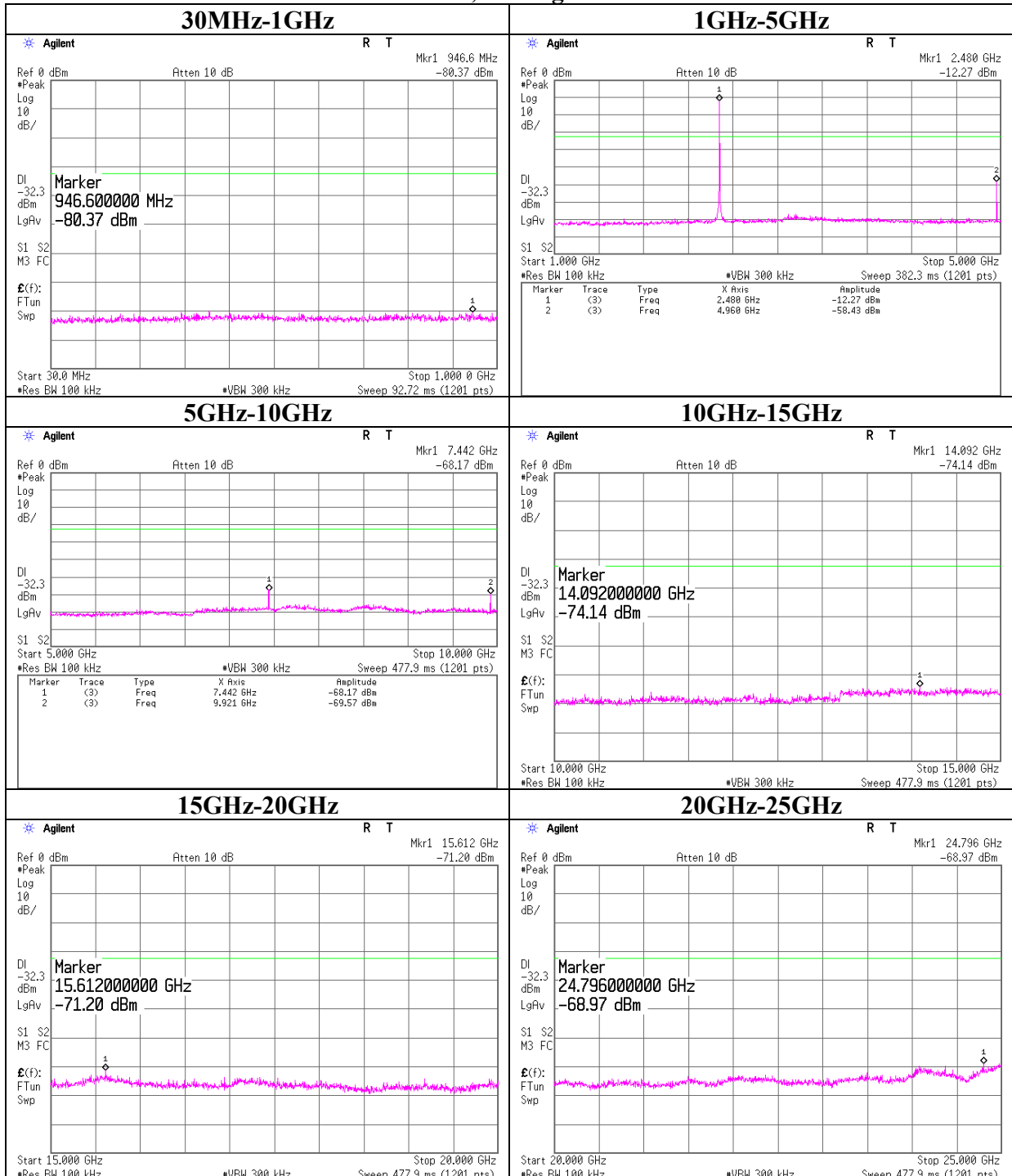
Conducted Spurious Emission
Tx, Ch:Low



Conducted Spurious Emission
Tx, Ch:Mid

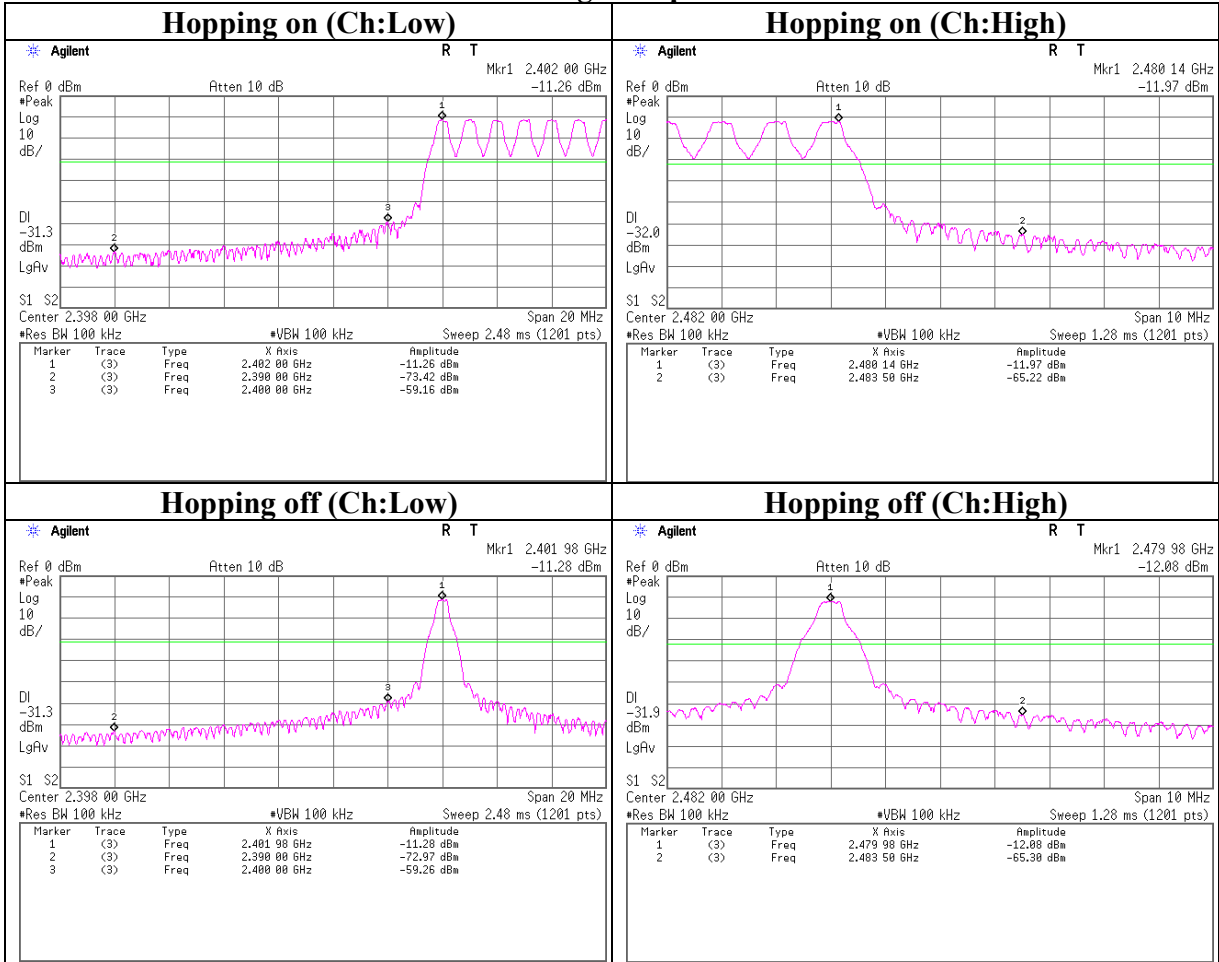


Conducted Spurious Emission
Tx, Ch:High

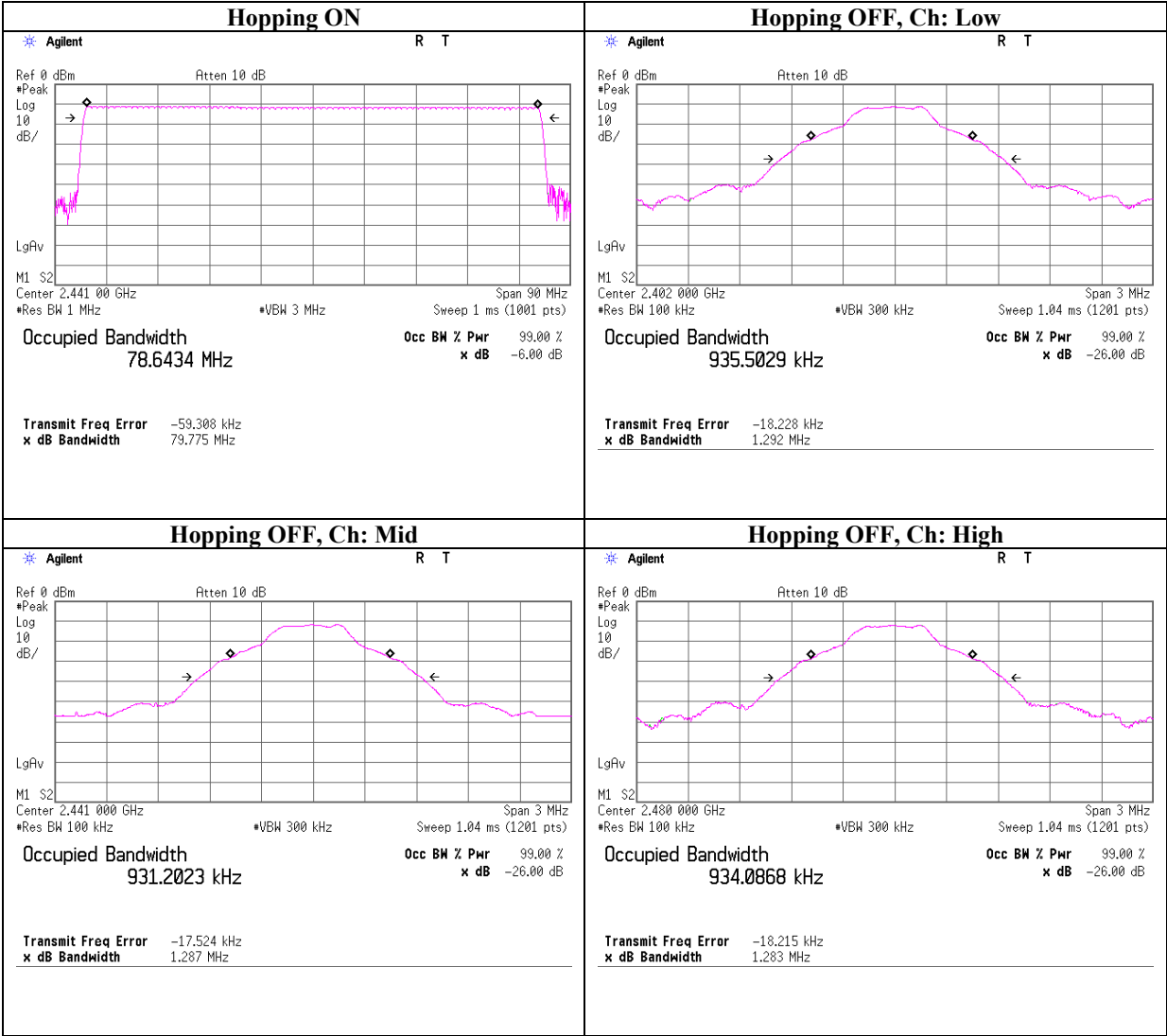


Conducted Spurious Emission

Band Edge compliance



99% Occupied Bandwidth



APPENDIX 3:Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/03/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MJM-07	Measure	PROMART	SEN1955	RE	-
MCC-26	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	AT	2006/08/29 * 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
MTR-06	Test Receiver	Rohde & Schwarz	ESCS30	RE	2006/09/12 * 12
MCC-50	Coaxial cable	UL Japan	-	RE	2007/03/06 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2007/03/12 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	RE	2007/03/05 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/01/19 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2007/01/19 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	AT	2007/06/20 * 12
MPM-08	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/04/02 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MCC-47	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MCC-25	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MHF-06	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2007/05/30 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2007/01/30 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE	2006/12/08 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2006/09/11 * 12

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EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (AE)	2007/02/22 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2007/02/22 * 12
MTA-07	Terminator	MCL	BTRM-50	CE	2007/02/01 * 12
MJG-51	Conversion adapter	-	101 21	CE	-
MJG-52	Conversion adapter	SE	RW-P003	CE	-
MMM-10	DIGITAL HiTESTER	Hioki	3805	RE/CE	2007/01/12 * 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

UL Japan, Inc.

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