

APPENDIX 2: Data of EMI test

Conducted Emission  
External antenna

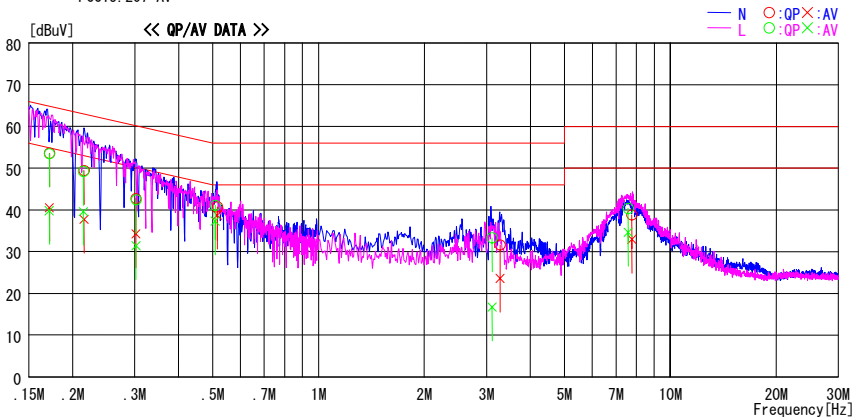
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Anechoic Chamber  
Date : 2007/05/14

Applicant : BROTHER INDUSTRIES, LTD. Report No. : 27IE0241-HO  
Kind of EUT : Multi-Function Center Power : AC120V / 60Hz  
Model No. : MFC-885CW Temp./Humi. : 20deg.C / 46%  
Serial No. : U61823C7F001768 Operator : Shinya Watanabe

Mode / Remarks : Tx ch 001 (5725.809328MHz) External Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV



| Frequency<br>[MHz] | Reading Level |              | Corr.<br>Factor | Results      |              | Limit        |              | Margin     |            | Phase |
|--------------------|---------------|--------------|-----------------|--------------|--------------|--------------|--------------|------------|------------|-------|
|                    | QP<br>[dBuV]  | AV<br>[dBuV] |                 | QP<br>[dBuV] | AV<br>[dBuV] | QP<br>[dBuV] | AV<br>[dBuV] | QP<br>[dB] | AV<br>[dB] |       |
| 0.17172            | 53.3          | 40.2         | 0.3             | 53.6         | 40.5         | 64.9         | 54.9         | 11.3       | 14.4       | N     |
| 0.21540            | 49.1          | 37.4         | 0.3             | 49.4         | 37.7         | 63.0         | 53.0         | 13.6       | 15.3       | N     |
| 0.30266            | 42.4          | 33.9         | 0.3             | 42.7         | 34.2         | 60.2         | 50.2         | 17.5       | 16.0       | N     |
| 0.51569            | 40.4          | 38.4         | 0.3             | 40.7         | 38.7         | 56.0         | 46.0         | 15.3       | 7.3        | N     |
| 3.28304            | 31.0          | 23.0         | 0.6             | 31.6         | 23.6         | 56.0         | 46.0         | 24.4       | 22.4       | N     |
| 7.77739            | 37.8          | 31.9         | 1.0             | 38.8         | 32.9         | 60.0         | 50.0         | 21.2       | 17.1       | N     |
| 0.17153            | 53.2          | 39.5         | 0.3             | 53.5         | 39.8         | 64.9         | 54.9         | 11.4       | 15.1       | L     |
| 0.21461            | 48.9          | 39.3         | 0.3             | 49.2         | 39.6         | 63.0         | 53.0         | 13.8       | 13.4       | L     |
| 0.30282            | 42.1          | 31.1         | 0.3             | 42.4         | 31.4         | 60.2         | 50.2         | 17.8       | 18.8       | L     |
| 0.50834            | 40.8          | 37.0         | 0.3             | 41.1         | 37.3         | 56.0         | 46.0         | 14.9       | 8.7        | L     |
| 3.11285            | 32.7          | 16.1         | 0.6             | 33.3         | 16.7         | 56.0         | 46.0         | 22.7       | 29.3       | L     |
| 7.59367            | 39.4          | 33.6         | 1.0             | 40.4         | 34.6         | 60.0         | 50.0         | 19.6       | 15.4       | L     |

CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(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.

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Revised date : June 18, 2007  
FCC ID : B3Q8CAE19

## Conducted Emission External antenna

### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 4 Anechoic Chamber  
Date : 2007/05/14

Applicant : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001768

Report No. : 271E0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 20deg. C / 46%  
Operator : Shinya Watanabe

Mode / Remarks : Tx ch 071 (5788.240269MHz) External Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV

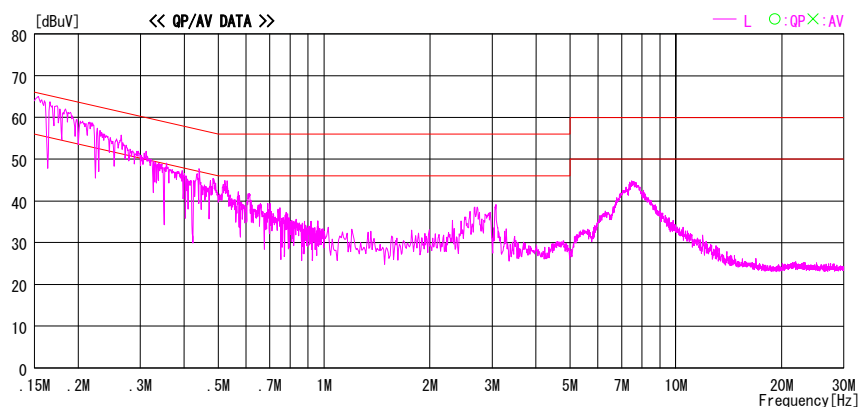
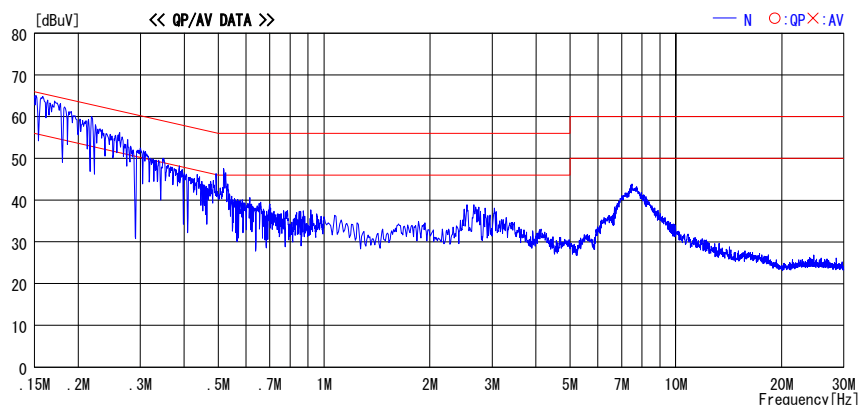


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)  
Except for the above table : adequate margin data below the limits.

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Test report No. : 271E0241-HO-A-R1  
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## Conducted Emission

### External antenna

### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 4 Anechoic Chamber  
Date : 2007/05/14

Applicant : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001768

Report No. : 271E0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 20deg. C / 46%  
Operator : Shinya Watanabe

Mode / Remarks : Tx ch 139 (5848.889420MHz) External Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV

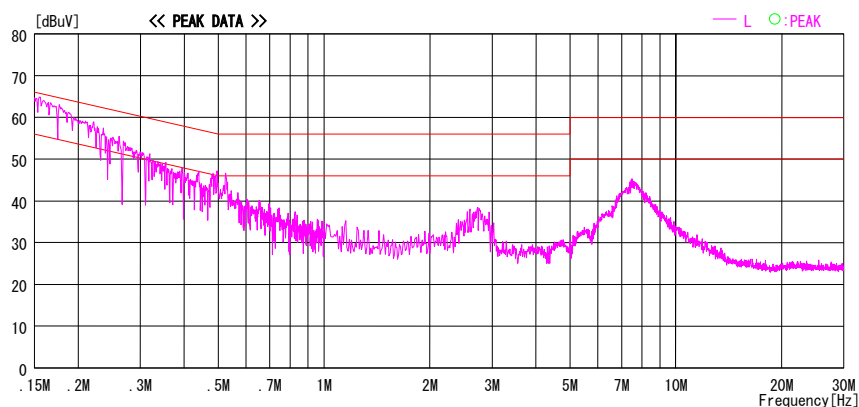
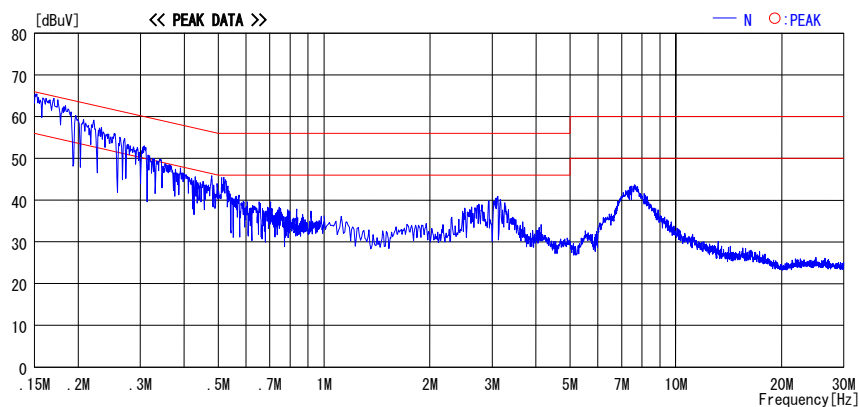


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)  
Except for the above table : adequate margin data below the limits.

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## Conducted Emission

### External antenna

## DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 4 Anechoic Chamber  
Date : 2007/05/14

Applicant : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001768

Report No. : 27IE0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 20deg. C / 46%  
Operator : Shinya Watanabe

Mode / Remarks : Rx ch 071 (5788.240269MHz) External Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV

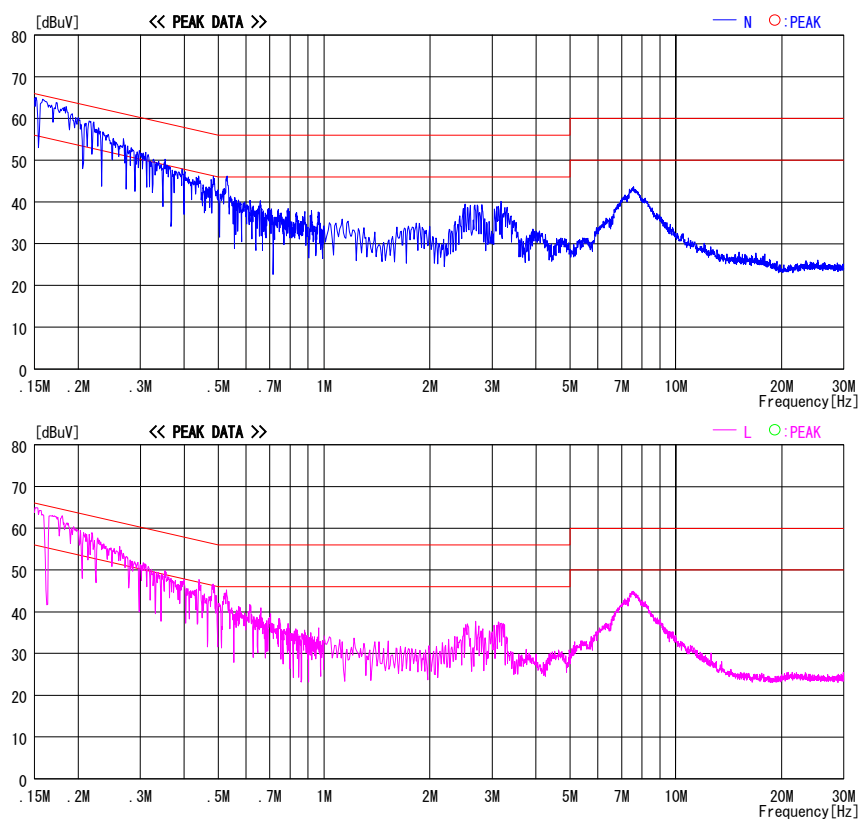


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)  
Except for the above table : adequate margin data below the limits.

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## Conducted Emission

### Internal antenna

## DATA OF CONDUCTED EMISSION TEST

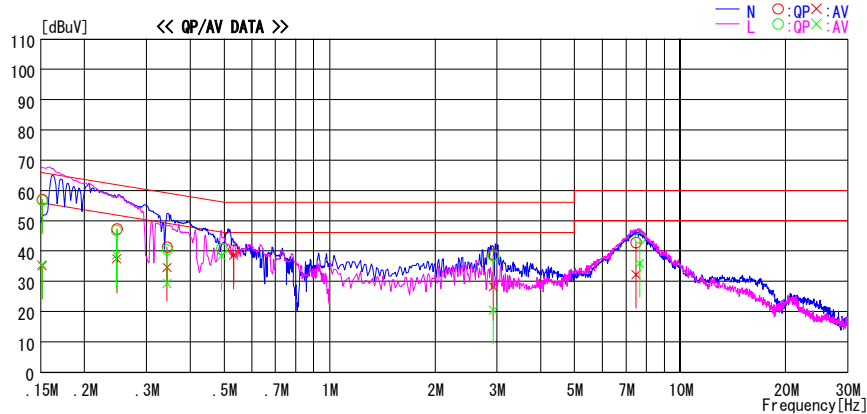
UL Japan, Inc. Head Office EMC Lab. No.2 Anechoic Chamber  
Date : 2007/05/11

Applicant : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001822

Report No. : 27IE0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 25deg. C /36%  
Operator : Motoya Imura

Mode / Remarks: Tx ch 001 (5725.809328MHz) Internal Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV



| Frequency | Reading Level |        | Corr. Factor | Results |        | Limit  |        | Margin |      | Phase |
|-----------|---------------|--------|--------------|---------|--------|--------|--------|--------|------|-------|
|           | QP            | AV     |              | QP      | AV     | QP     | AV     | QP     | AV   |       |
| [MHz]     | [dBuV]        | [dBuV] | [dB]         | [dBuV]  | [dBuV] | [dBuV] | [dBuV] | [dB]   | [dB] |       |
| 0.15147   | 56.7          | 34.9   | 0.3          | 57.0    | 35.2   | 65.9   | 55.9   | 8.9    | 20.7 | N     |
| 0.24733   | 47.1          | 37.1   | 0.3          | 47.4    | 37.4   | 61.8   | 51.8   | 14.4   | 14.4 | N     |
| 0.34408   | 41.1          | 34.2   | 0.3          | 41.4    | 34.5   | 59.1   | 49.1   | 17.7   | 14.6 | N     |
| 0.53222   | 40.0          | 38.3   | 0.3          | 40.3    | 38.6   | 56.0   | 46.0   | 15.7   | 7.4  | N     |
| 2.92902   | 38.4          | 27.6   | 0.6          | 39.0    | 28.2   | 56.0   | 46.0   | 17.0   | 17.8 | N     |
| 7.49217   | 41.7          | 31.0   | 1.2          | 42.9    | 32.2   | 60.0   | 50.0   | 17.1   | 17.8 | N     |
| 0.15122   | 56.5          | 35.2   | 0.3          | 56.8    | 35.5   | 65.9   | 55.9   | 9.1    | 20.4 | L     |
| 0.24658   | 46.6          | 38.4   | 0.3          | 46.9    | 38.7   | 61.9   | 51.9   | 15.0   | 13.2 | L     |
| 0.34416   | 40.2          | 29.0   | 0.3          | 40.5    | 29.3   | 59.1   | 49.1   | 18.6   | 19.8 | L     |
| 0.49157   | 40.4          | 38.1   | 0.3          | 40.7    | 38.4   | 56.1   | 46.1   | 15.4   | 7.7  | L     |
| 2.92921   | 37.9          | 19.9   | 0.6          | 38.5    | 20.5   | 56.0   | 46.0   | 17.5   | 25.5 | L     |
| 7.66376   | 43.2          | 34.7   | 1.2          | 44.4    | 35.9   | 60.0   | 50.0   | 15.6   | 14.1 | L     |

CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)  
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## Conducted Emission

### Internal antenna

## DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Anechoic Chamber  
Date : 2007/05/11

Applicant : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001822

Report No. : 27IE0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 25deg. C /36%  
Operator : Motoya Imura

Mode / Remarks: Tx ch 071 (5788.240269MHz) Internal Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV

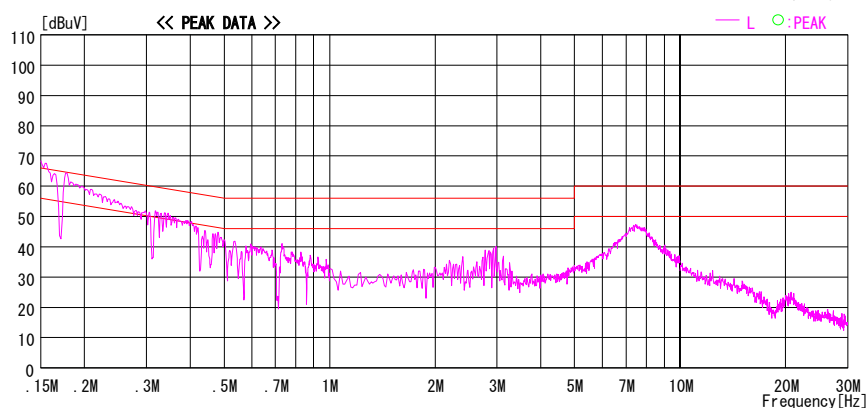
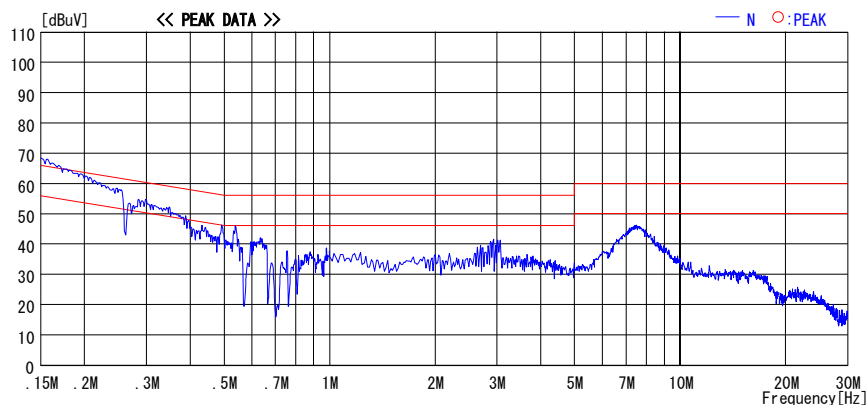


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**Conducted Emission**  
Internal antenna

**DATA OF CONDUCTED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.2 Anechoic Chamber  
Date : 2007/05/11

Applicant : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
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Report No. : 27IE0241-HO  
Power : AC120V / 60Hz  
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Operator : Motoya Imura

Mode / Remarks: Tx ch 139 (5848.889420MHz) Internal Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV

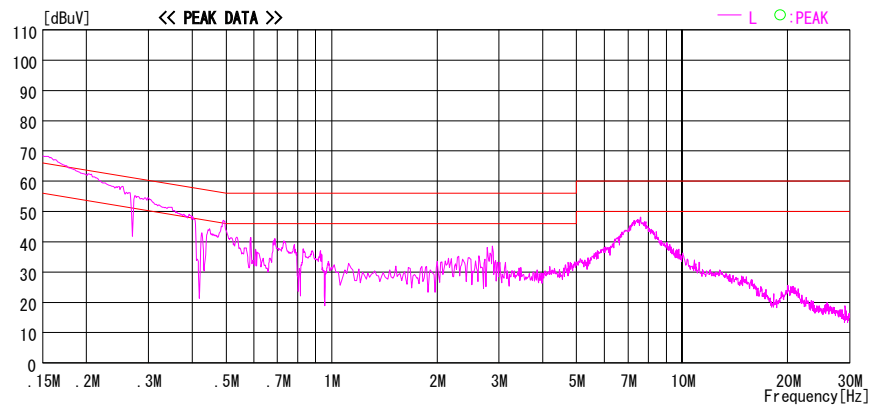
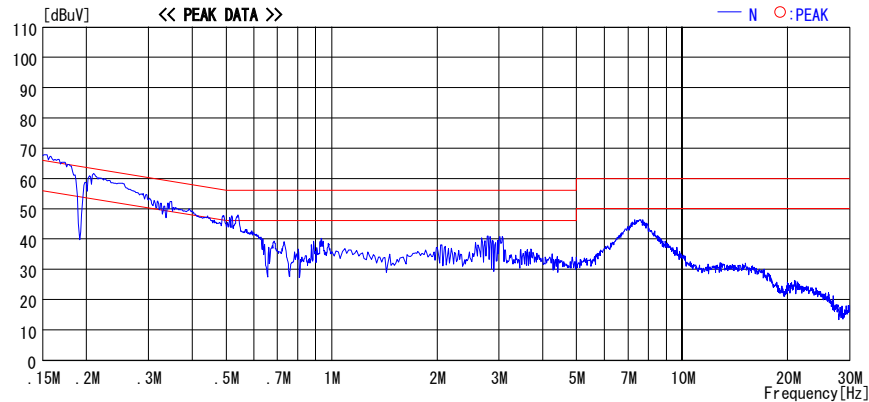


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)  
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FCC ID : B3Q8CAE19

## Conducted Emission

### Internal antenna

### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Anechoic Chamber  
Date : 2007/05/11

Applicant : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001822

Report No. : 27IE0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 25deg. C /36%  
Operator : Motoya Imura

Mode / Remarks: Rx ch 071 (5788.240269MHz) Internal Antenna

LIMIT : FCC15.207 QP  
FCC15.207 AV

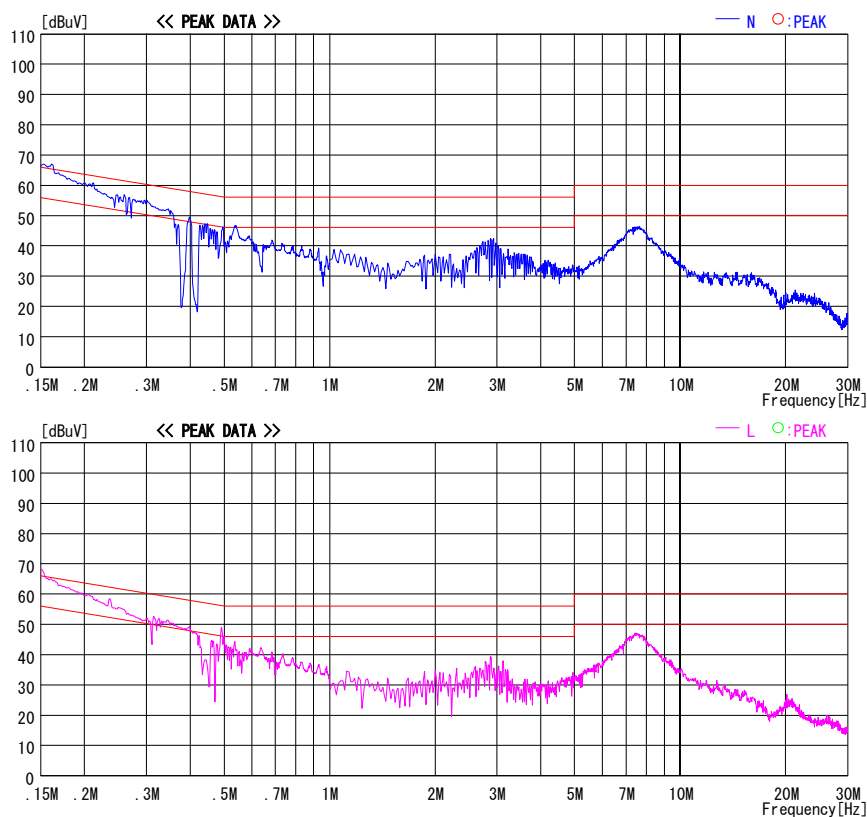


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Except for the above table : adequate margin data below the limits.

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## Carrier Frequency Separation

UL Japan, Inc.  
Head Office EMC Lab. No.6 measurement room

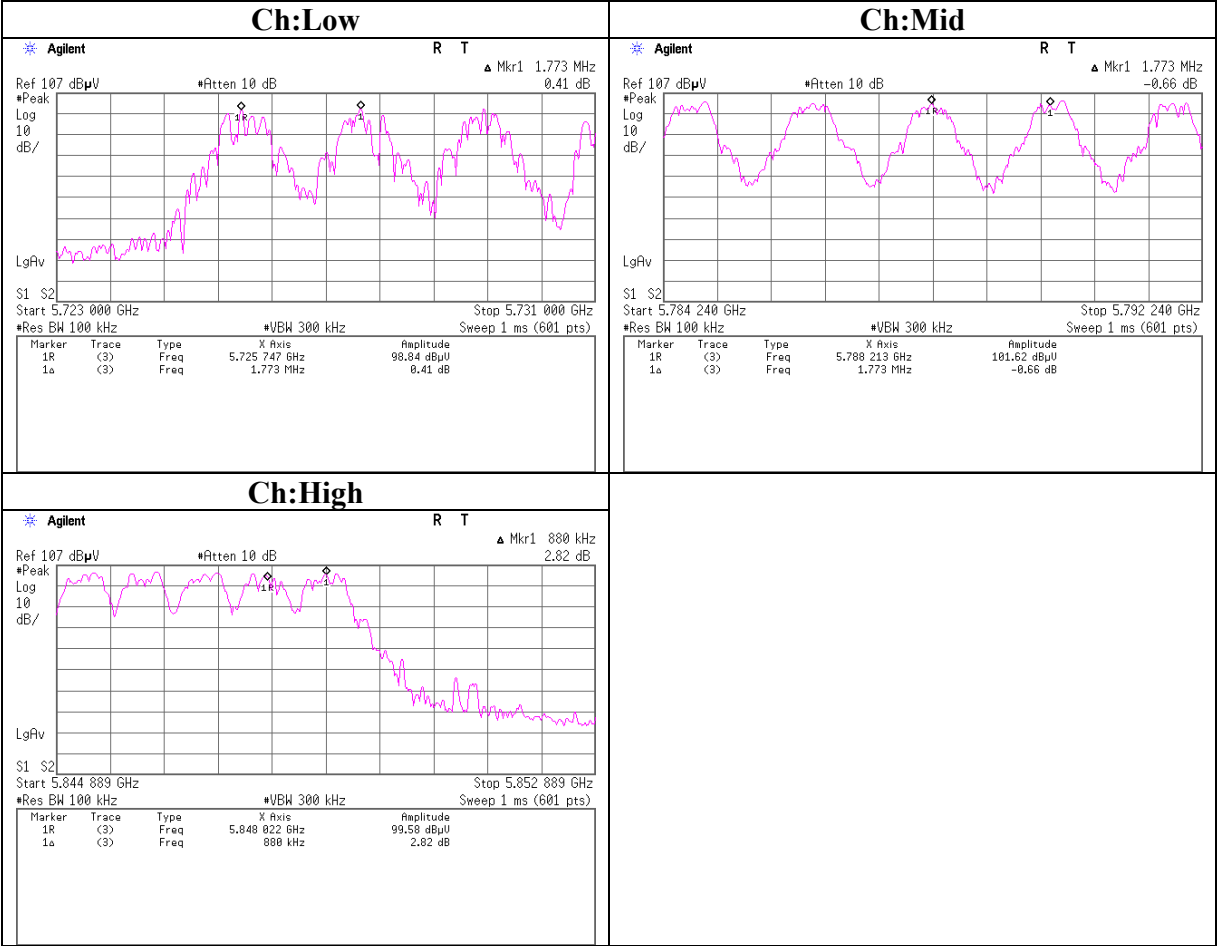
|           |                            |               |                                  |
|-----------|----------------------------|---------------|----------------------------------|
| COMPANY   | : BROTHER INDUSTRIES, LTD. | REGULATION    | : FCC15.247(a)(1)/RSS-210A8.1(2) |
| EQUIPMENT | : Multi-Function Center    | TEST DISTANCE | : -                              |
| MODEL     | : MFC-885CW                | DATE          | : May 18, 2007                   |
| S/ N      | : U61823C7F001821          | TEMPERATURE   | : 24.5deg.C                      |
| POWER     | : AC 120V / 60Hz           | HUMIDITY      | : 49%                            |
| MODE      | : Tx(Hopping on)           | ENGINEER      | : Tomotaka Sasagawa              |

| Ch   | Freq.<br>[MHz] | Channel separation<br>[MHz] | Limit                                                      |
|------|----------------|-----------------------------|------------------------------------------------------------|
| Low  | 5725.809       | 1.773                       | >20dB Bandwidth(710[kHz]) or 25[kHz](whichever is greater) |
| Mid  | 5788.240       | 1.773                       | >20dB Bandwidth(720[kHz]) or 25[kHz](whichever is greater) |
| High | 5848.889       | 0.880                       | >20dB Bandwidth(810[kHz]) or 25[kHz](whichever is greater) |

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Carrier Frequency Separation



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## **20dB Bandwidth**

UL Japan, Inc.  
Head Office EMC Lab. No.6 measurement room

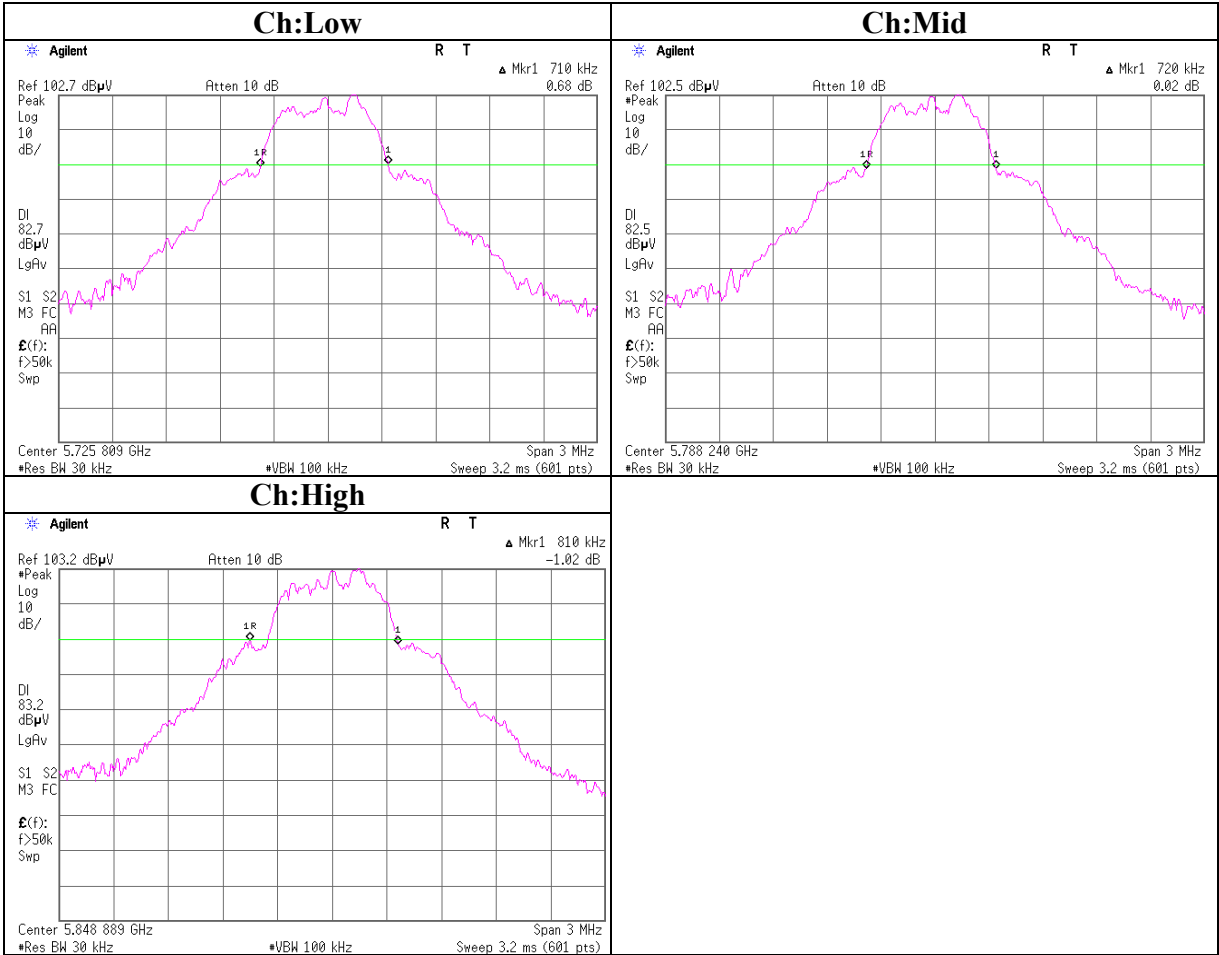
|           |                            |               |                                         |
|-----------|----------------------------|---------------|-----------------------------------------|
| COMPANY   | : BROTHER INDUSTRIES, LTD. | REGULATION    | : FCC15.247(a)(1)(ii)/RSS-210A8.1(1)(5) |
| EQUIPMENT | : Multi-Function Center    | TEST DISTANCE | : -                                     |
| MODEL     | : MFC-885CW                | DATE          | : May 18, 2007                          |
| S/ N      | : U61823C7F001821          | TEMPERATURE   | : 24.5deg.C                             |
| POWER     | : AC 120V / 60Hz           | HUMIDITY      | : 49%                                   |
| MODE      | : Tx(Hopping off)          | ENGINEER      | : Tomotaka Sasagawa                     |

| Ch   | Freq.    | 20dB Bandwidth | Limit |
|------|----------|----------------|-------|
|      | [MHz]    | [MHz]          | [MHz] |
| Low  | 5725.809 | 0.710          | 1.0   |
| Mid  | 5788.240 | 0.720          | 1.0   |
| High | 5848.889 | 0.810          | 1.0   |

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20dB Bandwidth



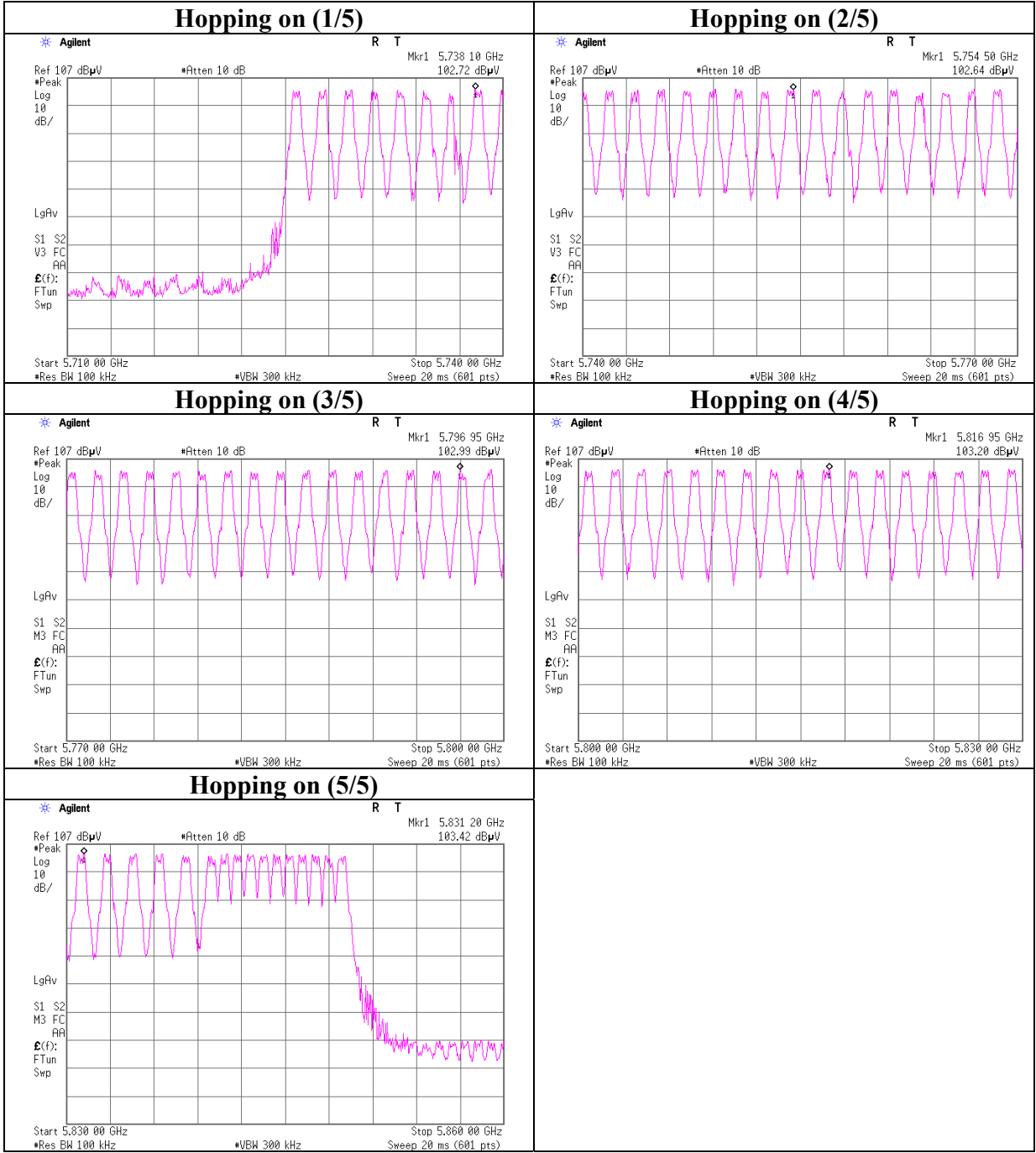
### **Number of Hopping Frequency**

UL Japan, Inc.  
Head Office EMC Lab. No.6 measurement room

|           |                            |               |                                      |
|-----------|----------------------------|---------------|--------------------------------------|
| COMPANY   | : BROTHER INDUSTRIES, LTD. | REGULATION    | : FCC15.247(a)(1)(ii)/RSS-210A8.1(5) |
| EQUIPMENT | : Multi-Function Center    | TEST DISTANCE | : -                                  |
| MODEL     | : MFC-885CW                | DATE          | : May 18, 2007                       |
| S/ N      | : U61823C7F001821          | TEMPERATURE   | : 24.5deg.C                          |
| POWER     | : AC 120V / 60Hz           | HUMIDITY      | : 49%                                |
| MODE      | : Tx(Hopping on)           | ENGINEER      | : Tomotaka Sasagawa                  |

| Mode           | Number of channel | Limit     |
|----------------|-------------------|-----------|
|                | [time]            | [time]    |
| Tx(Hopping on) | 75                | $\geq 75$ |

Number of Hopping Frequency



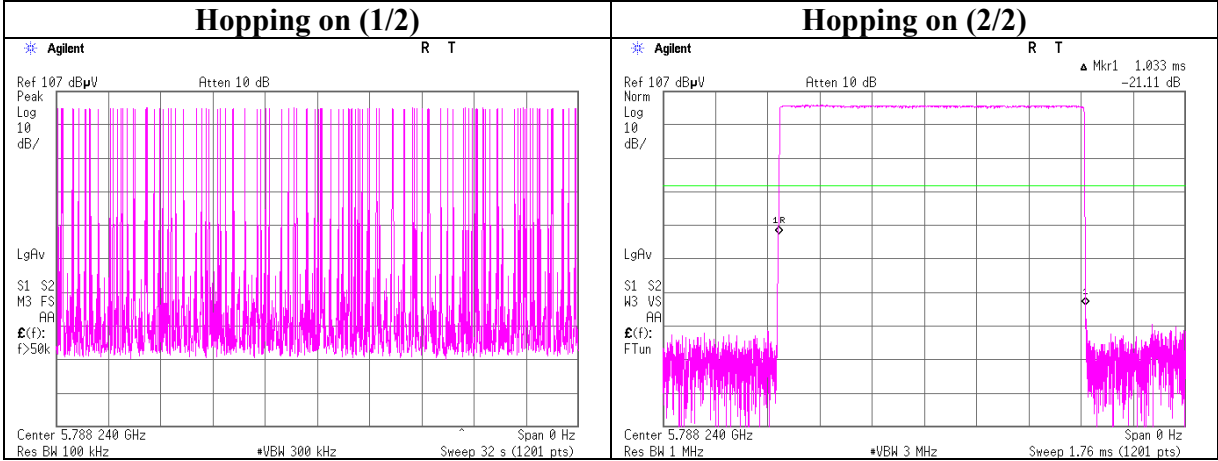
### Dwell time

UL Japan, Inc.  
Head Office EMC Lab. No.6 measurement room

|           |                            |               |                                      |
|-----------|----------------------------|---------------|--------------------------------------|
| COMPANY   | : BROTHER INDUSTRIES, LTD. | REGULATION    | : FCC15.247(a)(1)(ii)/RSS-210A8.1(5) |
| EQUIPMENT | : Multi-Function Center    | TEST DISTANCE | : -                                  |
| MODEL     | : MFC-885CW                | DATE          | : May 18, 2007                       |
| S/ N      | : U61823C7F001821          | TEMPERATURE   | : 24.5deg.C                          |
| POWER     | : AC 120V / 60Hz           | HUMIDITY      | : 49%                                |
| MODE      | : Tx(Hopping on)           | ENGINEER      | : Tomotaka Sasagawa                  |

| Mode       | Number of transmission<br>in a 30 second period | Length of<br>transmission time<br>[msec] | Result<br>[msec] | Limit<br>[msec] |
|------------|-------------------------------------------------|------------------------------------------|------------------|-----------------|
| Hopping on | 110 times / 32 sec. x 30.0 sec. = 104 times     | 1.033                                    | 107.43           | 400             |

Dwell time





### Maximum Peak Output Power

UL Japan, Inc.  
Head Office EMC Lab. No.4 shielded room

|           |                            |               |                                  |
|-----------|----------------------------|---------------|----------------------------------|
| COMPANY   | : BROTHER INDUSTRIES, LTD. | REGULATION    | : FCC15.247(b)(1)/RSS-210A8.1(3) |
| EQUIPMENT | : Multi-Function Center    | TEST DISTANCE | : -                              |
| MODEL     | : MFC-885CW                | DATE          | : June 18, 2007                  |
| S/ N      | : U61823C7F001821          | TEMPERATURE   | : 27deg.C                        |
| POWER     | : AC 120V / 60Hz           | HUMIDITY      | : 59%                            |
| MODE      | : Tx(Hopping off)          | ENGINEER      | : Shinya Watanabe                |

| Ch   | Freq.<br>[MHz] | P/M<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result |       | Limit |      | Margin<br>[dB] |
|------|----------------|-------------------------|-----------------------|----------------|--------|-------|-------|------|----------------|
|      |                |                         |                       |                | [dBm]  | [mW]  | [dBm] | [mW] |                |
| Low  | 5725.809       | -3.52                   | 0.65                  | 19.69          | 16.81  | 48.02 | 30.00 | 1000 | 13.19          |
| Mid  | 5788.240       | -3.35                   | 0.65                  | 19.68          | 16.99  | 49.95 | 30.00 | 1000 | 13.01          |
| High | 5848.889       | -3.08                   | 0.65                  | 19.68          | 17.26  | 53.17 | 30.00 | 1000 | 12.74          |

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)**  
**External Antenna, Tx, Ch. Low**

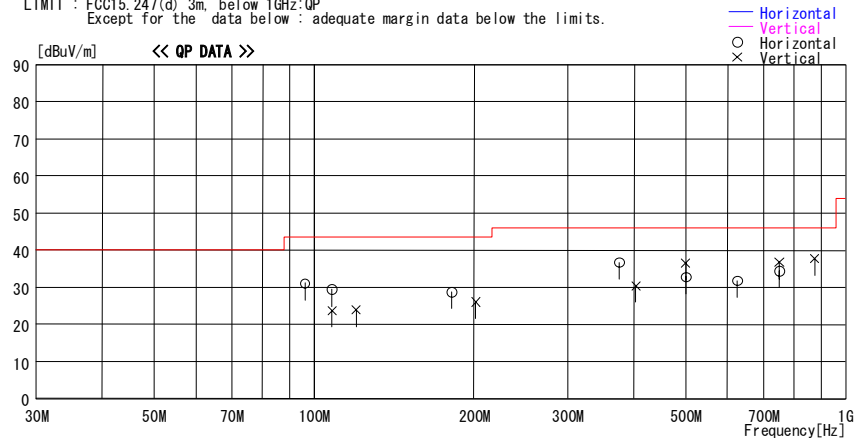
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/04/27

Company : BROTHER INDUSTRIES, LTD. Report No. : 27IE0241-HO  
Kind of EUT : Multi-Function Center Power : AC120V / 60Hz  
Model No. : MFC-885CW Temp./Humi. : 22.6deg. C / 33%  
Serial No. : U61823C7F001768 Operator : Takashi Nakazawa

Mode / Remarks : Tx ch 001(5725.809328MHz) / Hor:ANT Angle 0deg., Ver:ANT Angle 90deg. (MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| Frequency | Reading | DET | Antenna Factor | Loss& Gain | Level    | Angle | Height | Polar. | Limit    | Margin |
|-----------|---------|-----|----------------|------------|----------|-------|--------|--------|----------|--------|
| [MHz]     | [dBuV]  |     | [dB/m]         | [dB]       | [dBuV/m] | [Deg] | [cm]   |        | [dBuV/m] | [dB]   |
| 96.010    | 53.0    | QP  | 9.1            | -31.0      | 31.1     | 201   | 320    | Hori.  | 43.5     | 12.4   |
| 108.001   | 43.3    | QP  | 11.3           | -30.8      | 23.8     | 231   | 117    | Vert.  | 43.5     | 19.7   |
| 108.003   | 49.0    | QP  | 11.3           | -30.8      | 29.5     | 203   | 163    | Hori.  | 43.5     | 14.0   |
| 120.005   | 41.7    | QP  | 12.9           | -30.6      | 24.0     | 245   | 100    | Vert.  | 43.5     | 19.5   |
| 181.440   | 42.1    | QP  | 16.7           | -30.0      | 28.8     | 359   | 170    | Hori.  | 43.5     | 14.7   |
| 201.523   | 38.5    | QP  | 17.5           | -29.9      | 26.1     | 63    | 158    | Vert.  | 43.5     | 17.4   |
| 374.992   | 49.4    | QP  | 15.6           | -28.3      | 36.7     | 167   | 100    | Hori.  | 46.0     | 9.3    |
| 403.209   | 42.2    | QP  | 16.2           | -27.9      | 30.5     | 320   | 137    | Vert.  | 46.0     | 15.6   |
| 500.002   | 45.5    | QP  | 18.4           | -27.3      | 36.6     | 203   | 178    | Vert.  | 46.0     | 9.4    |
| 500.007   | 41.8    | QP  | 18.4           | -27.3      | 32.9     | 227   | 113    | Hori.  | 46.0     | 13.2   |
| 625.452   | 38.5    | QP  | 19.7           | -26.4      | 31.8     | 48    | 116    | Hori.  | 46.0     | 14.2   |
| 749.987   | 38.8    | QP  | 21.4           | -25.7      | 34.5     | 310   | 253    | Hori.  | 46.0     | 11.5   |
| 749.996   | 41.0    | QP  | 21.4           | -25.7      | 36.7     | 41    | 122    | Vert.  | 46.0     | 9.3    |
| 875.157   | 41.1    | QP  | 21.6           | -25.0      | 37.7     | 153   | 103    | Vert.  | 46.0     | 8.3    |

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)

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

Test report No. : 27IE0241-HO-A-R1  
Page : 35 of 59  
Issued date : May 25, 2007  
Revised date : June 18, 2007  
FCC ID : B3Q8CAE19

**Radiated Spurious Emission (below 1GHz)**  
**External Antenna, Tx, Ch. Mid**

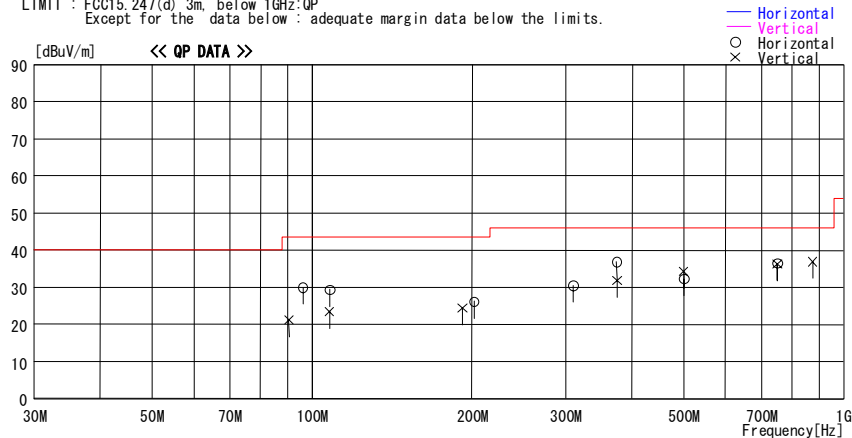
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/04/27

Company : BROTHER INDUSTRIES, LTD. Report No. : 27IE0241-HO  
Kind of EUT : Multi-Function Center Power : AC120V / 60Hz  
Model No. : MFC-885CW Temp./Humi. : 22.6deg. C / 33%  
Serial No. : U61823C7F001768 Operator : Takashi Nakazawa

Mode / Remarks : Tx ch 071(5788.240269MHz) / Hor:ANT Angle 0deg., Ver:ANT Angle 90deg. (MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| Frequency<br>[MHz] | Reading<br>[dBuV] | DET | Antenna          | Loss&        | Level<br>[dBuV/m] | Angle<br>[Deg] | Height<br>[cm] | Polar. | Limit    | Margin | Comment |
|--------------------|-------------------|-----|------------------|--------------|-------------------|----------------|----------------|--------|----------|--------|---------|
|                    |                   |     | Factor<br>[dB/m] | Gain<br>[dB] |                   |                |                |        | [dBuV/m] | [dB]   |         |
| 96.012             | 51.9              | QP  | 9.1              | -31.0        | 30.0              | 206            | 317            | Hori.  | 43.5     | 13.5   |         |
| 107.916            | 48.9              | QP  | 11.3             | -30.8        | 29.4              | 277            | 118            | Hori.  | 43.5     | 14.1   |         |
| 201.597            | 38.6              | QP  | 17.5             | -29.9        | 26.2              | 31             | 160            | Hori.  | 43.5     | 17.3   |         |
| 309.820            | 45.0              | QP  | 14.4             | -28.9        | 30.5              | 62             | 100            | Hori.  | 46.0     | 15.5   |         |
| 374.349            | 49.5              | QP  | 15.6             | -28.3        | 36.8              | 159            | 100            | Hori.  | 46.0     | 9.2    |         |
| 499.994            | 41.2              | QP  | 18.4             | -27.3        | 32.3              | 225            | 112            | Hori.  | 46.0     | 13.7   |         |
| 750.304            | 40.8              | QP  | 21.4             | -25.7        | 36.5              | 298            | 100            | Hori.  | 46.0     | 9.5    |         |
| 90.518             | 44.6              | QP  | 7.6              | -31.0        | 21.2              | 116            | 100            | Vert.  | 43.5     | 22.3   |         |
| 107.916            | 43.0              | QP  | 11.3             | -30.8        | 23.5              | 231            | 116            | Vert.  | 43.5     | 20.0   |         |
| 191.783            | 37.3              | QP  | 17.1             | -29.9        | 24.5              | 4              | 168            | Vert.  | 43.5     | 19.0   |         |
| 374.996            | 44.5              | QP  | 15.6             | -28.3        | 31.8              | 32             | 147            | Vert.  | 46.0     | 14.2   |         |
| 500.001            | 43.2              | QP  | 18.4             | -27.3        | 34.3              | 200            | 178            | Vert.  | 46.0     | 11.7   |         |
| 750.304            | 40.6              | QP  | 21.4             | -25.7        | 36.3              | 48             | 121            | Vert.  | 46.0     | 9.7    |         |
| 875.157            | 40.3              | QP  | 21.6             | -25.0        | 36.9              | 155            | 100            | Vert.  | 46.0     | 9.1    |         |

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)

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

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

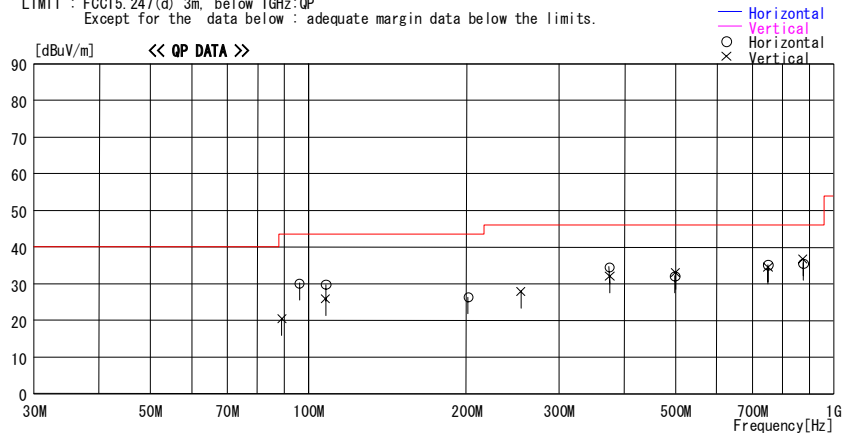
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/04/27

Company : BROTHER INDUSTRIES, LTD. Report No. : 27IE0241-HO  
Kind of EUT : Multi-Function Center Power : AC120V / 60Hz  
Model No. : MFC-885CW Temp./Humi. : 22.6deg. C / 33%  
Serial No. : U61823C7F001768 Operator : Takashi Nakazawa

Mode / Remarks : Tx ch 139(5848.889420MHz) / Hor:ANT Angle 0deg., Ver:ANT Angle 90deg. (MAX)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| Frequency | Reading | DET | Antenna | Loss& | Level    | Angle  | Height | Polar. | Limit    | Margin |
|-----------|---------|-----|---------|-------|----------|--------|--------|--------|----------|--------|
|           |         |     | Factor  | Gain  |          |        |        |        | [dBuV/m] | [dB]   |
| [MHz]     | [dBuV]  |     | [dB/m]  | [dB]  | [dBuV/m] | [Deg.] | [cm]   |        |          |        |
| 96.012    | 52.0    | QP  | 9.1     | -31.0 | 30.1     | 23     | 318    | Hori.  | 43.5     | 13.4   |
| 107.916   | 49.3    | QP  | 11.3    | -30.8 | 29.8     | 178    | 173    | Hori.  | 43.5     | 13.7   |
| 201.523   | 38.8    | QP  | 17.5    | -29.9 | 26.4     | 158    | 156    | Hori.  | 43.5     | 17.1   |
| 374.349   | 47.3    | QP  | 15.6    | -28.3 | 34.6     | 153    | 100    | Hori.  | 46.0     | 11.4   |
| 499.198   | 41.0    | QP  | 18.4    | -27.3 | 32.1     | 137    | 113    | Hori.  | 46.0     | 13.9   |
| 750.304   | 39.4    | QP  | 21.4    | -25.7 | 35.1     | 334    | 100    | Hori.  | 46.0     | 10.9   |
| 875.157   | 39.0    | QP  | 21.6    | -25.0 | 35.6     | 136    | 104    | Hori.  | 46.0     | 10.4   |
| 88.978    | 44.0    | QP  | 7.4     | -31.0 | 20.4     | 135    | 100    | Vert.  | 43.5     | 23.1   |
| 107.916   | 45.4    | QP  | 11.3    | -30.8 | 25.9     | 227    | 156    | Vert.  | 43.5     | 17.6   |
| 254.016   | 40.2    | QP  | 17.1    | -29.4 | 27.9     | 28     | 118    | Vert.  | 46.0     | 18.1   |
| 374.994   | 44.8    | QP  | 15.6    | -28.3 | 32.1     | 188    | 144    | Vert.  | 46.0     | 13.9   |
| 499.993   | 42.0    | QP  | 18.4    | -27.3 | 33.1     | 142    | 139    | Vert.  | 46.0     | 12.9   |
| 749.988   | 38.9    | QP  | 21.4    | -25.7 | 34.6     | 54     | 118    | Vert.  | 46.0     | 11.4   |
| 875.157   | 40.2    | QP  | 21.6    | -25.0 | 36.8     | 155    | 100    | Vert.  | 46.0     | 9.2    |

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 differences might be observed.

Test report No. : 27IE0241-HO-A-R1  
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Revised date : June 18, 2007  
FCC ID : B3Q8CAE19

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

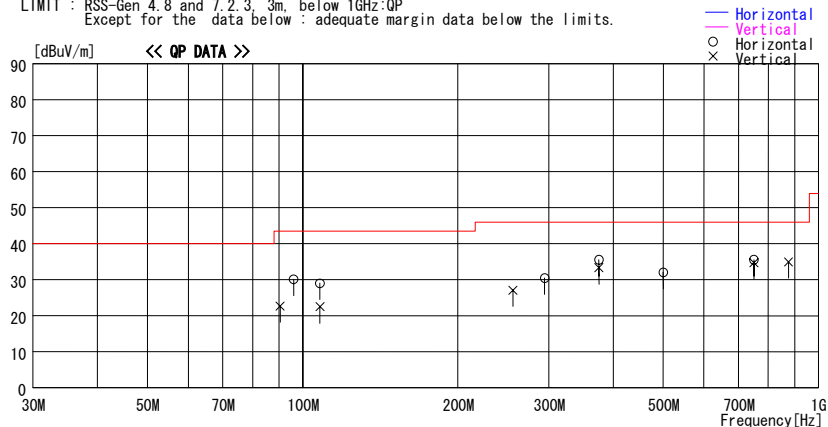
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/04/27

Company : BROTHER INDUSTRIES, LTD. Report No. : 27IE0241-HO  
Kind of EUT : Multi-Function Center Power : AC120V / 60Hz  
Model No. : MFC-885GW Temp./Humi. : 22.6deg.C / 33%  
Serial No. : U61823C7F001768 Operator : Takashi Nakazawa

Mode / Remarks : Rx ch 071 (5788.240269MHz) / Hor:ANT Angle 0deg., Ver:ANT Angle 90deg. (MAX)

LIMIT : RSS-Gen 4.8 and 7.2.3, 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| 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]   |
| 96.012    | 52.0    | QP  | 9.1     | -31.0       | 30.1     | 214   | 315    | Hori.  | 43.5     | 13.4   |
| 107.896   | 48.5    | QP  | 11.3    | -30.8       | 29.0     | 198   | 170    | Hori.  | 43.5     | 14.5   |
| 294.332   | 39.5    | QP  | 20.0    | -29.0       | 30.5     | 278   | 305    | Hori.  | 46.0     | 15.5   |
| 374.991   | 48.3    | QP  | 15.6    | -28.3       | 35.6     | 167   | 103    | Hori.  | 46.0     | 10.4   |
| 499.992   | 40.9    | QP  | 18.4    | -27.3       | 32.0     | 338   | 113    | Hori.  | 46.0     | 14.0   |
| 749.986   | 39.9    | QP  | 21.4    | -25.7       | 35.6     | 196   | 100    | Hori.  | 46.0     | 10.4   |
| 90.449    | 46.1    | QP  | 7.6     | -31.0       | 22.7     | 95    | 198    | Vert.  | 43.5     | 20.8   |
| 107.998   | 42.0    | QP  | 11.3    | -30.8       | 22.5     | 250   | 113    | Vert.  | 43.5     | 21.0   |
| 255.630   | 39.3    | QP  | 17.2    | -29.4       | 27.1     | 350   | 100    | Vert.  | 46.0     | 18.9   |
| 374.992   | 46.0    | QP  | 15.6    | -28.3       | 33.3     | 179   | 138    | Vert.  | 46.0     | 12.7   |
| 749.989   | 39.0    | QP  | 21.4    | -25.7       | 34.7     | 44    | 115    | Vert.  | 46.0     | 11.3   |
| 874.989   | 38.4    | QP  | 21.6    | -25.0       | 35.0     | 162   | 100    | 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 limit is rounded down to one decimal place. \*The test result is round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27IE0241-HO-A-R1  
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Issued date : May 25, 2007  
Revised date : June 18, 2007  
FCC ID : B3Q8CAE19

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

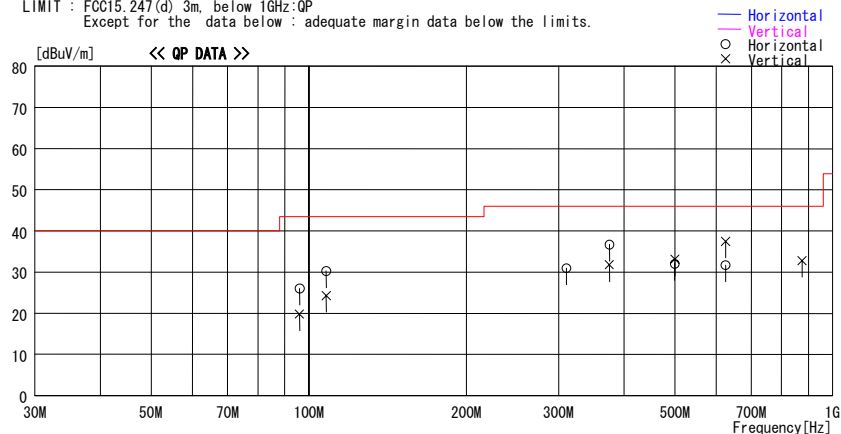
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber  
Date : 2007/05/14

Company : BROTHER INDUSTRIES, LTD. Report No. : 27IE0241-H0  
Kind of EUT : Multi-Function Center Power : AC120V / 60Hz  
Model No. : MFC-885CW Temp./Humi. : 20deg. C / 46%  
Serial No. : U61823C7F001822 Operator : Shinya Watanabe

Mode / Remarks : Tx ch 001 (5725.809328MHz)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| Frequency<br>[MHz] | Reading<br>[dBuV] | DET | Antenna          | Loss&        | Level<br>[dBuV/m] | Angle<br>[Deg] | Height<br>[cm] | Polar. | Limit    | Margin | Comment |
|--------------------|-------------------|-----|------------------|--------------|-------------------|----------------|----------------|--------|----------|--------|---------|
|                    |                   |     | Factor<br>[dB/m] | Gain<br>[dB] |                   |                |                |        | [dBuV/m] | [dB]   |         |
| 96.002             | 34.0              | QP  | 9.8              | -24.0        | 19.8              | 124            | 271            | Vert.  | 43.5     | 23.7   |         |
| 96.003             | 40.2              | QP  | 9.8              | -24.0        | 26.0              | 47             | 328            | Hori.  | 43.5     | 17.5   |         |
| 107.998            | 42.5              | QP  | 11.6             | -23.9        | 30.2              | 57             | 302            | Hori.  | 43.5     | 13.3   |         |
| 108.008            | 36.6              | QP  | 11.6             | -23.9        | 24.3              | 140            | 316            | Vert.  | 43.5     | 19.2   |         |
| 310.465            | 36.8              | QP  | 16.2             | -22.0        | 31.0              | 333            | 100            | Hori.  | 46.0     | 15.0   |         |
| 374.988            | 36.2              | QP  | 17.2             | -21.6        | 31.8              | 171            | 141            | Vert.  | 46.0     | 14.2   |         |
| 374.989            | 41.1              | QP  | 17.2             | -21.6        | 36.7              | 165            | 100            | Hori.  | 46.0     | 9.3    |         |
| 499.985            | 33.2              | QP  | 19.5             | -20.7        | 32.0              | 11             | 100            | Hori.  | 46.0     | 14.0   |         |
| 499.996            | 34.3              | QP  | 19.5             | -20.7        | 33.1              | 184            | 113            | Vert.  | 46.0     | 12.9   |         |
| 624.981            | 37.5              | QP  | 20.3             | -20.3        | 37.5              | 273            | 100            | Vert.  | 46.0     | 8.5    |         |
| 624.990            | 31.7              | QP  | 20.3             | -20.3        | 31.7              | 349            | 100            | Hori.  | 46.0     | 14.3   |         |
| 874.989            | 27.8              | QP  | 23.3             | -18.3        | 32.8              | 160            | 100            | Vert.  | 46.0     | 13.2   |         |

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 differences might be observed.

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**Radiated Spurious Emission (below 1GHz)**  
**Internal Antenna, Tx, Ch. Mid**

**DATA OF RADIATED EMISSION TEST**

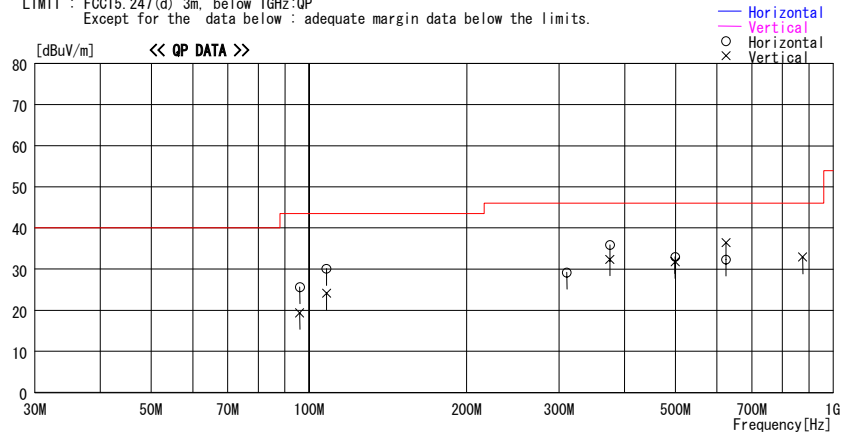
UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber  
Date : 2007/05/14

Company : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001822

Report No. : 27IE0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 20deg. C / 46%  
Operator : Shinya Watanabe

Mode / Remarks : Tx ch 071 (5788.240269MHz)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| Frequency<br>[MHz] | Reading<br>[dBuV] | DET | Antenna |            | Level<br>[dBuV/m] | Angle<br>[Deg] | Height<br>[cm] | Polar. | Limit<br>[dBuV/m] | Margin<br>[dB] | Comment |
|--------------------|-------------------|-----|---------|------------|-------------------|----------------|----------------|--------|-------------------|----------------|---------|
|                    |                   |     | Factor  | Loss& Gain |                   |                |                |        |                   |                |         |
| 96.005             | 33.6              | QP  | 9.8     | -24.0      | 19.4              | 129            | 268            | Vert.  | 43.5              | 24.1           |         |
| 96.010             | 39.8              | QP  | 9.8     | -24.0      | 25.6              | 52             | 322            | Hori.  | 43.5              | 17.9           |         |
| 108.000            | 42.4              | QP  | 11.6    | -23.9      | 30.1              | 52             | 296            | Hori.  | 43.5              | 13.4           |         |
| 108.008            | 36.4              | QP  | 11.6    | -23.9      | 24.1              | 47             | 314            | Vert.  | 43.5              | 19.4           |         |
| 310.481            | 35.0              | QP  | 16.2    | -22.0      | 29.2              | 187            | 185            | Hori.  | 46.0              | 16.8           |         |
| 374.983            | 40.3              | QP  | 17.2    | -21.6      | 35.9              | 146            | 100            | Hori.  | 46.0              | 10.1           |         |
| 374.985            | 36.8              | QP  | 17.2    | -21.6      | 32.4              | 179            | 172            | Vert.  | 46.0              | 13.6           |         |
| 499.978            | 33.0              | QP  | 19.5    | -20.7      | 31.8              | 356            | 188            | Vert.  | 46.0              | 14.2           |         |
| 499.980            | 34.2              | QP  | 19.5    | -20.7      | 33.0              | 22             | 100            | Hori.  | 46.0              | 13.0           |         |
| 624.987            | 36.4              | QP  | 20.3    | -20.3      | 36.4              | 322            | 170            | Vert.  | 46.0              | 9.6            |         |
| 624.992            | 32.3              | QP  | 20.3    | -20.3      | 32.3              | 0              | 303            | Hori.  | 46.0              | 13.7           |         |
| 874.980            | 27.9              | QP  | 23.3    | -18.3      | 32.9              | 160            | 100            | Vert.  | 46.0              | 13.1           |         |

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)

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

Test report No. : 27IE0241-HO-A-R1  
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FCC ID : B3Q8CAE19

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

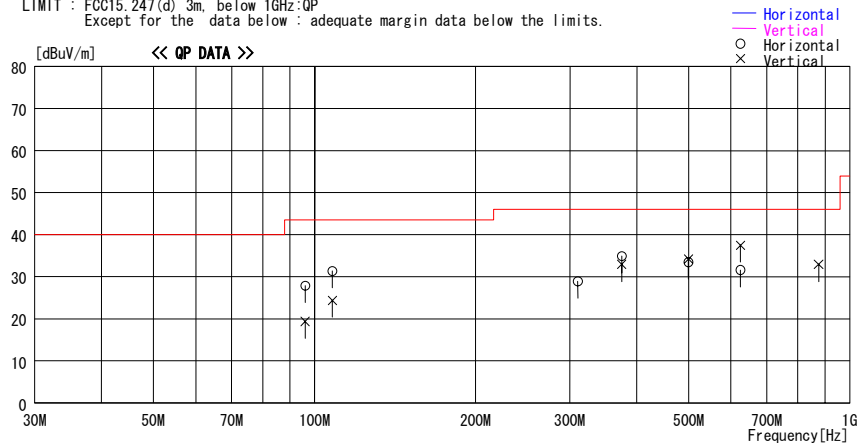
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber  
Date : 2007/05/14

Company : BROTHER INDUSTRIES, LTD.  
Kind of EUT : Multi-Function Center  
Model No. : MFC-885CW  
Serial No. : U61823C7F001822  
Report No. : 27IE0241-HO  
Power : AC120V / 60Hz  
Temp./Humi. : 20deg. C / 46%  
Operator : Shinya Watanabe

Mode / Remarks : Tx ch 139 (5848.889420MHz)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| Frequency | Reading | DET | Antenna Factor | Loss& Gain | Level    | Angle | Height | Polar. | Limit    | Margin | Comment |
|-----------|---------|-----|----------------|------------|----------|-------|--------|--------|----------|--------|---------|
| [MHz]     | [dBuV]  |     | [dB/m]         | [dB]       | [dBuV/m] | [Deg] | [cm]   |        | [dBuV/m] | [dB]   |         |
| 96.005    | 42.1    | QP  | 9.8            | -24.0      | 27.9     | 30    | 322    | Hori.  | 43.5     | 15.6   |         |
| 96.009    | 33.6    | QP  | 9.8            | -24.0      | 19.4     | 131   | 304    | Vert.  | 43.5     | 24.1   |         |
| 107.996   | 36.7    | QP  | 11.6           | -23.9      | 24.4     | 128   | 323    | Vert.  | 43.5     | 19.1   |         |
| 108.006   | 43.7    | QP  | 11.6           | -23.9      | 31.4     | 52    | 305    | Hori.  | 43.5     | 12.1   |         |
| 310.450   | 34.7    | QP  | 16.2           | -22.0      | 28.9     | 184   | 197    | Hori.  | 46.0     | 17.1   |         |
| 374.996   | 39.3    | QP  | 17.2           | -21.6      | 34.9     | 140   | 100    | Hori.  | 46.0     | 11.1   |         |
| 374.998   | 37.3    | QP  | 17.2           | -21.6      | 32.9     | 174   | 156    | Vert.  | 46.0     | 13.1   |         |
| 499.973   | 34.7    | QP  | 19.5           | -20.7      | 33.5     | 17    | 100    | Hori.  | 46.0     | 12.5   |         |
| 499.985   | 35.4    | QP  | 19.5           | -20.7      | 34.2     | 192   | 113    | Vert.  | 46.0     | 11.8   |         |
| 624.979   | 37.5    | QP  | 20.3           | -20.3      | 37.5     | 283   | 100    | Vert.  | 46.0     | 8.5    |         |
| 624.984   | 31.6    | QP  | 20.3           | -20.3      | 31.6     | 353   | 100    | Hori.  | 46.0     | 14.4   |         |
| 874.983   | 27.9    | QP  | 23.3           | -18.3      | 32.9     | 159   | 100    | Vert.  | 46.0     | 13.1   |         |

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)

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

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Revised date : June 18, 2007  
FCC ID : B3Q8CAE19

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

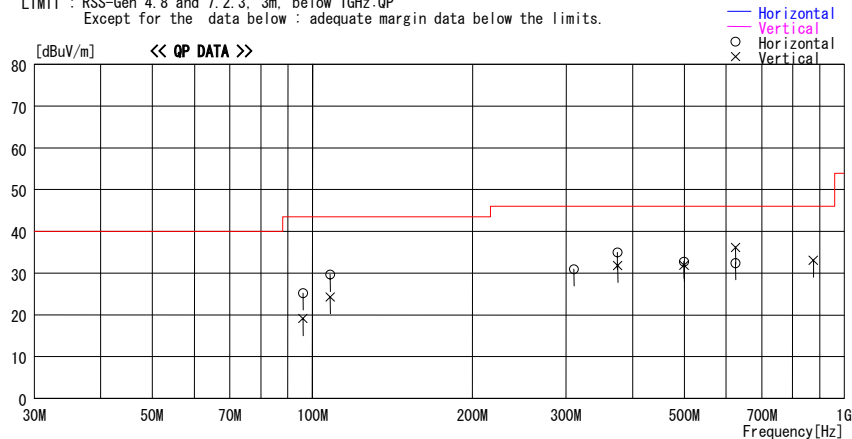
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber  
Date : 2007/05/14

Company : BROTHER INDUSTRIES, LTD. Report No. : 27IE0241-HO  
Kind of EUT : Multi-Function Center Power : AC120V / 60Hz  
Model No. : MFC-885CW Temp./Humi. : 20deg. C / 46%  
Serial No. : U61823C7F001822 Operator : Shinya Watanabe

Mode / Remarks : Rx ch 071 (578.240269MHz)

LIMIT : RSS-Gen 4.8 and 7.2.3, 3m, below 1GHz:QP  
Except for the data below : adequate margin data below the limits.



| Frequency | Reading | DET | Antenna Factor | Loss& Gain | Level    | Angle | Height | Polar. | Limit    | Margin | Comment |
|-----------|---------|-----|----------------|------------|----------|-------|--------|--------|----------|--------|---------|
| [MHz]     | [dBuV]  |     | [dB/m]         | [dB]       | [dBuV/m] | [Deg] | [cm]   |        | [dBuV/m] | [dB]   |         |
| 96.007    | 33.3    | QP  | 9.8            | -24.0      | 19.1     | 130   | 297    | Vert.  | 43.5     | 24.4   |         |
| 96.010    | 39.4    | QP  | 9.8            | -24.0      | 25.2     | 39    | 319    | Hori.  | 43.5     | 18.3   |         |
| 108.006   | 36.6    | QP  | 11.6           | -23.9      | 24.3     | 138   | 324    | Vert.  | 43.5     | 19.2   |         |
| 108.017   | 42.0    | QP  | 11.6           | -23.9      | 29.7     | 58    | 312    | Hori.  | 43.5     | 13.8   |         |
| 310.465   | 36.8    | QP  | 16.2           | -22.0      | 31.0     | 145   | 100    | Hori.  | 46.0     | 15.0   |         |
| 374.977   | 39.4    | QP  | 17.2           | -21.6      | 35.0     | 145   | 100    | Hori.  | 46.0     | 11.0   |         |
| 374.992   | 36.2    | QP  | 17.2           | -21.6      | 31.8     | 184   | 167    | Vert.  | 46.0     | 14.2   |         |
| 499.981   | 33.9    | QP  | 19.5           | -20.7      | 32.7     | 16    | 100    | Hori.  | 46.0     | 13.3   |         |
| 499.998   | 33.1    | QP  | 19.5           | -20.7      | 31.9     | 0     | 212    | Vert.  | 46.0     | 14.1   |         |
| 624.982   | 36.2    | QP  | 20.3           | -20.3      | 36.2     | 322   | 167    | Vert.  | 46.0     | 9.8    |         |
| 624.984   | 32.4    | QP  | 20.3           | -20.3      | 32.4     | 0     | 313    | Hori.  | 46.0     | 13.6   |         |
| 874.968   | 28.1    | QP  | 23.3           | -18.3      | 33.1     | 140   | 172    | Vert.  | 46.0     | 12.9   |         |

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

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Revised date : June 18, 2007  
FCC ID : B3Q8CAE19

## **Radiated Spurious Emission (above 1GHz)**

### **External Antenna, Tx, Ch. Low**

UL Apex Co.,Ltd.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001768  
Power : AC 120V / 60Hz  
Mode : Tx 5725.809328MHz  
EUT-Position : Normal (Ant: External Antenna)  
Ant-Position : H: 0deg., V: 90deg., External Antenna

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m / 0.5m  
Date : April 24, 2007  
Temperature : 24 deg.C.  
Humidity : 47 %  
Engineer : Kenichi Adachi

#### **PK DETECT**

(RBW: 1MHz, VBW: 1MHz)

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |       | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |       | Limit<br>PK<br>[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                                                                                                | 2400.00       | 51.1        | 51.3  | 27.3                    | 31.5                | 3.0                   | 0.0                       | 49.9     | 50.1  | 73.9                    | 24.0   | 23.8 |
| 2                                                                                                | 3325.61       | 46.7        | 46.3  | 28.7                    | 31.2                | 3.5                   | 0.0                       | 47.7     | 47.3  | 73.9                    | 26.2   | 26.6 |
| 3                                                                                                | 4800.00       | 54.6        | 52.0  | 31.5                    | 30.8                | 3.9                   | 0.0                       | 59.2     | 56.6  | 73.9                    | 14.7   | 17.3 |
| 4                                                                                                | 5177.46       | 44.2        | 44.0  | 31.9                    | 30.7                | 4.0                   | 0.0                       | 49.4     | 49.2  | 73.9                    | 24.5   | 24.7 |
| 5 *                                                                                              | 5725.00       | 111.0       | 106.4 | 32.4                    | 30.6                | 4.2                   | 0.0                       | 117.0    | 112.4 | 73.9                    | -      | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |       |                         |                     |                       |                           |          |       |                         |        |      |
| 6                                                                                                | 11451.62      | 51.3        | 48.8  | 39.7                    | 32.4                | 6.4                   | 0.8                       | 56.3     | 53.8  | 73.9                    | 17.6   | 20.1 |
| 7 *                                                                                              | 17177.43      | 62.4        | 58.7  | 41.9                    | 31.1                | 7.5                   | 1.1                       | 72.3     | 68.6  | 73.9                    | -      | -    |
| 8                                                                                                | 22903.24      | 56.5        | 53.7  | 38.6                    | 31.4                | 8.8                   | 0.8                       | 63.8     | 61.0  | 73.9                    | 10.1   | 12.9 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |       |                         |                     |                       |                           |          |       |                         |        |      |
| 9                                                                                                | 28629.05      | 47.1        | 47.6  | 39.6                    | 24.3                | 7.3                   | 0.0                       | 54.1     | 54.6  | 73.9                    | 19.8   | 19.3 |
| 10                                                                                               | 34354.86      | 39.4        | 41.8  | 40.4                    | 24.6                | 8.2                   | 0.0                       | 47.8     | 50.2  | 73.9                    | 26.1   | 23.7 |

\* Reference data

#### **AV DETECT**

(RBW: 1MHz, VBW: 10Hz)

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[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                                                                                                | 2400.00       | 34.4        | 35.4 | 27.3                    | 31.5                | 3.0                   | 0.0                       | 33.2     | 34.2 | 53.9                    | 20.7   | 19.7 |
| 2                                                                                                | 3325.61       | 42.3        | 38.4 | 28.7                    | 31.2                | 3.5                   | 0.0                       | 43.3     | 39.4 | 53.9                    | 10.6   | 14.5 |
| 3                                                                                                | 4800.00       | 31.8        | 31.6 | 31.5                    | 30.8                | 3.9                   | 0.0                       | 36.4     | 36.2 | 53.9                    | 17.5   | 17.7 |
| 4                                                                                                | 5177.46       | 29.4        | 29.2 | 31.9                    | 30.7                | 4.0                   | 0.0                       | 34.6     | 34.4 | 53.9                    | 19.3   | 19.5 |
| 5 *                                                                                              | 5725.00       | 34.6        | 34.1 | 32.4                    | 30.6                | 4.2                   | 0.0                       | 40.6     | 40.1 | 53.9                    | -      | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 6                                                                                                | 11451.62      | 33.1        | 32.6 | 39.7                    | 32.4                | 6.4                   | 0.8                       | 38.1     | 37.6 | 53.9                    | 15.8   | 16.3 |
| 7 *                                                                                              | 17177.43      | 36.1        | 33.5 | 41.9                    | 31.1                | 7.5                   | 1.1                       | 46.0     | 43.4 | 53.9                    | -      | -    |
| 8                                                                                                | 22903.24      | 34.6        | 34.1 | 38.6                    | 31.4                | 8.8                   | 0.8                       | 41.9     | 41.4 | 53.9                    | 12.0   | 12.5 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 9                                                                                                | 28629.05      | 24.6        | 24.7 | 39.6                    | 24.3                | 7.3                   | 0.0                       | 31.6     | 31.7 | 53.9                    | 22.3   | 22.2 |
| 10                                                                                               | 34354.86      | 26.9        | 27.3 | 40.4                    | 24.6                | 8.2                   | 0.0                       | 35.3     | 35.7 | 53.9                    | 18.6   | 18.2 |

\* Reference data

**20dBc (Fundamental 5725.8 MHz)** (RBW: 100kHz, VBW: 300kHz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING |       | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT |       | Limit<br>20dBc<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|---------------|-------------|-------|-------------------------|---------------------|-----------------------|---------------------------|--------|-------|----------------------------|--------|------|
|                                                                                                |               | HOR         | VER   |                         |                     |                       |                           | HOR    | VER   |                            | HOR    | VER  |
|                                                                                                |               | [dBuV]      |       |                         |                     |                       |                           |        |       |                            |        |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |               |             |       |                         |                     |                       |                           |        |       |                            |        |      |
| 0                                                                                              | 5725.81       | 115.4       | 110.8 | 32.4                    | 30.6                | 4.2                   | 0.0                       | 121.4  | 116.8 | -                          | -      | -    |
| 5                                                                                              | 5725.00       | 78.6        | 74.0  | 32.4                    | 30.6                | 4.2                   | 0.0                       | 84.6   | 80.0  | Funda-20dB                 | 16.8   | 16.8 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |       |                         |                     |                       |                           |        |       |                            |        |      |
| 7                                                                                              | 17177.43      | 61.4        | 56.9  | 41.9                    | 31.1                | 7.5                   | 1.1                       | 71.3   | 66.8  | Funda-20dB                 | 30.1   | 30.0 |

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 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 differences might be observed.

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

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FCC ID : B3Q8CAE19

## **Radiated Spurious Emission (above 1GHz)**

### **External Antenna, Tx, Ch. Mid**

UL Apex Co.,Ltd.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001768  
Power : AC 120V / 60Hz  
Mode : Tx 5788.240269MHz  
EUT-Position : Normal (Ant: External Antenna)  
Ant-Position : H: 0deg., V: 90deg., External Antenna

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m / 0.5m  
Date : April 24, 2007  
Temperature : 24 deg.C.  
Humidity : 47 %  
Engineer : Kenichi Adachi

#### **PK DETECT**

(RBW: 1MHz, VBW: 1MHz)

| No.                                                                                                 | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[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                                                                                                   | 2428.00       | 50.3        | 52.3 | 27.4                    | 31.5                | 3.1                   | 0.0                       | 49.3     | 51.3 | 73.9                    | 24.6   | 22.6 |  |
| 2                                                                                                   | 3359.71       | 46.2        | 43.4 | 28.7                    | 31.1                | 3.5                   | 0.0                       | 47.3     | 44.5 | 73.9                    | 26.6   | 29.4 |  |
| 3                                                                                                   | 4857.51       | 53.8        | 51.0 | 31.6                    | 30.7                | 3.9                   | 0.0                       | 58.6     | 55.8 | 73.9                    | 15.3   | 18.1 |  |
| 4                                                                                                   | 5221.96       | 46.3        | 46.2 | 32.0                    | 30.7                | 4.0                   | 0.0                       | 51.6     | 51.5 | 73.9                    | 22.3   | 22.4 |  |
| Test distance 1meters    RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |  |
| 5                                                                                                   | 11576.48      | 51.2        | 49.0 | 39.6                    | 32.4                | 6.5                   | 0.7                       | 56.1     | 53.9 | 73.9                    | 17.8   | 20.0 |  |
| 6 *                                                                                                 | 17364.72      | 62.5        | 58.9 | 43.4                    | 31.0                | 7.5                   | 1.2                       | 74.1     | 70.5 | 73.9                    | -      | -    |  |
| 7                                                                                                   | 23152.96      | 56.7        | 54.0 | 38.7                    | 31.3                | 8.9                   | 0.7                       | 64.2     | 61.5 | 73.9                    | 9.7    | 12.4 |  |
| Test distance 0.5meters    RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |  |
| 8                                                                                                   | 28941.20      | 48.7        | 49.1 | 39.9                    | 24.4                | 7.4                   | 0.0                       | 56.0     | 56.4 | 73.9                    | 17.9   | 17.5 |  |
| 9                                                                                                   | 34729.44      | 40.2        | 42.0 | 40.6                    | 24.5                | 8.3                   | 0.0                       | 49.0     | 50.8 | 73.9                    | 24.9   | 23.1 |  |

\* Reference data

#### **AV DETECT**

(RBW: 1MHz, VBW: 10Hz)

| No.                                                                                                 | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[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                                                                                                   | 2428.00       | 34.7        | 37.1 | 27.4                    | 31.5                | 3.1                   | 0.0                       | 33.7     | 36.1 | 53.9                    | 20.2   | 17.8 |
| 2                                                                                                   | 3359.71       | 41.6        | 37.5 | 28.7                    | 31.1                | 3.5                   | 0.0                       | 42.7     | 38.6 | 53.9                    | 11.2   | 15.3 |
| 3                                                                                                   | 4857.51       | 32.0        | 31.3 | 31.6                    | 30.7                | 3.9                   | 0.0                       | 36.8     | 36.1 | 53.9                    | 17.1   | 17.8 |
| 4                                                                                                   | 5221.96       | 29.7        | 29.6 | 32.0                    | 30.7                | 4.0                   | 0.0                       | 35.0     | 34.9 | 53.9                    | 18.9   | 19.0 |
| Test distance 1meters    RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 5                                                                                                   | 11576.48      | 33.0        | 32.5 | 39.6                    | 32.4                | 6.5                   | 0.7                       | 37.9     | 37.4 | 53.9                    | 16.0   | 16.5 |
| 6 *                                                                                                 | 17364.72      | 36.2        | 35.7 | 43.4                    | 31.0                | 7.5                   | 1.2                       | 47.8     | 47.3 | 53.9                    | -      | -    |
| 7                                                                                                   | 23152.96      | 34.8        | 34.3 | 38.7                    | 31.3                | 8.9                   | 0.7                       | 42.3     | 41.8 | 53.9                    | 11.6   | 12.1 |
| Test distance 0.5meters    RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 8                                                                                                   | 28941.20      | 24.5        | 24.9 | 39.9                    | 24.4                | 7.4                   | 0.0                       | 31.8     | 32.2 | 53.9                    | 22.1   | 21.7 |
| 9                                                                                                   | 34729.44      | 28.0        | 28.6 | 40.6                    | 24.5                | 8.3                   | 0.0                       | 36.8     | 37.4 | 53.9                    | 17.1   | 16.5 |

\* Reference data

#### **20dBc (Fundamental 5788.2 MHz) (RBW: 100kHz, VBW: 300kHz)**

| No.                                                                                            | FREQ<br><br>[MHz] | S/A READING |       | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |       | Limit<br>20dBc<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|-------------------|-------------|-------|-------------------------|---------------------|-----------------------|---------------------------|----------|-------|----------------------------|--------|------|
|                                                                                                |                   | HOR         | VER   |                         |                     |                       |                           | HOR      | VER   |                            | HOR    | VER  |
|                                                                                                |                   | [dBuV]      |       |                         |                     |                       |                           | [dBuV/m] |       |                            | [dB]   | [dB] |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |                   |             |       |                         |                     |                       |                           |          |       |                            |        |      |
| 0                                                                                              | 5788.24           | 112.8       | 109.7 | 32.4                    | 30.6                | 4.2                   | 0.0                       | 118.8    | 115.7 | -                          | -      | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |                   |             |       |                         |                     |                       |                           |          |       |                            |        |      |
| 6                                                                                              | 17364.72          | 61.1        | 56.8  | 43.4                    | 31.0                | 7.5                   | 1.2                       | 72.7     | 68.4  | Funda-20dB                 | 26.1   | 27.3 |

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 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 differences might be observed.

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

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Test report No. : 27IE0241-HO-A-R1  
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FCC ID : B3Q8CAE19

## Radiated Spurious Emission (above 1GHz)

### External Antenna, Tx, Ch. High

UL Apex Co.,Ltd.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001768  
Power : AC 120V / 60Hz  
Mode : Tx 5848.889420MHz  
EUT-Position : Normal (Ant: External Antenna)  
Ant-Position : H: 0deg., V: 90deg., External Antenna

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m / 0.5m  
Date : April 24, 2007  
Temperature : 24 deg.C.  
Humidity : 47 %  
Engineer : Kenichi Adachi

#### PK DETECT

(RBW: 1MHz, VBW: 1MHz)

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |       | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |       | Limit<br>PK<br>[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                                                                                                | 2489.12       | 51.8        | 53.6  | 27.4                    | 31.5                | 3.1                   | 0.0                       | 50.8     | 52.6  | 73.9                    | 23.1   | 21.3 |
| 2                                                                                                | 3359.76       | 46.2        | 44.6  | 28.7                    | 31.1                | 3.5                   | 0.0                       | 47.3     | 45.7  | 73.9                    | 26.6   | 28.2 |
| 3                                                                                                | 4978.26       | 54.3        | 52.8  | 31.8                    | 30.7                | 4.0                   | 0.0                       | 59.4     | 57.9  | 73.9                    | 14.5   | 16.0 |
| 4                                                                                                | 5433.31       | 44.5        | 44.2  | 32.1                    | 30.7                | 4.1                   | 0.0                       | 50.0     | 49.7  | 73.9                    | 23.9   | 24.2 |
| 5 *                                                                                              | 5850.00       | 105.2       | 100.8 | 32.5                    | 30.6                | 4.2                   | 0.0                       | 111.3    | 106.9 | 73.9                    | -      | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |       |                         |                     |                       |                           |          |       |                         |        |      |
| 6                                                                                                | 11697.78      | 51.7        | 49.2  | 39.4                    | 32.4                | 6.5                   | 0.7                       | 56.4     | 53.9  | 73.9                    | 17.5   | 20.0 |
| 7 *                                                                                              | 17546.67      | 62.8        | 59.8  | 44.9                    | 31.0                | 7.6                   | 1.3                       | 76.1     | 73.1  | 73.9                    | -      | -    |
| 8                                                                                                | 23395.56      | 57.3        | 55.2  | 38.7                    | 31.1                | 9.0                   | 0.6                       | 65.0     | 62.9  | 73.9                    | 8.9    | 11.0 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |       |                         |                     |                       |                           |          |       |                         |        |      |
| 9                                                                                                | 29244.45      | 51.7        | 52.1  | 40.0                    | 24.4                | 7.4                   | 0.0                       | 59.1     | 59.5  | 73.9                    | 14.8   | 14.4 |
| 10                                                                                               | 35093.34      | 42.0        | 42.5  | 40.8                    | 24.4                | 8.4                   | 0.0                       | 51.2     | 51.7  | 73.9                    | 22.7   | 22.2 |

\* Reference data

#### AV DETECT

(RBW: 1MHz, VBW: 10Hz)

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[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                                                                                                | 2489.12       | 34.6        | 39.1 | 27.4                    | 31.5                | 3.1                   | 0.0                       | 33.6     | 38.1 | 53.9                    | 20.3   | 15.8 |
| 2                                                                                                | 3359.76       | 42.1        | 36.5 | 28.7                    | 31.1                | 3.5                   | 0.0                       | 43.2     | 37.6 | 53.9                    | 10.7   | 16.3 |
| 3                                                                                                | 4978.26       | 32.4        | 32.0 | 31.8                    | 30.7                | 4.0                   | 0.0                       | 37.5     | 37.1 | 53.9                    | 16.4   | 16.8 |
| 4                                                                                                | 5433.31       | 28.8        | 28.6 | 32.1                    | 30.7                | 4.1                   | 0.0                       | 34.3     | 34.1 | 53.9                    | 19.6   | 19.8 |
| 5 *                                                                                              | 5850.00       | 34.2        | 33.4 | 32.5                    | 30.6                | 4.2                   | 0.0                       | 40.3     | 39.5 | 53.9                    | -      | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 6                                                                                                | 11697.78      | 33.1        | 32.7 | 39.4                    | 32.4                | 6.5                   | 0.7                       | 37.8     | 37.4 | 53.9                    | 16.1   | 16.5 |
| 7 *                                                                                              | 17546.67      | 36.1        | 35.7 | 44.9                    | 31.0                | 7.6                   | 1.3                       | 49.4     | 49.0 | 53.9                    | -      | -    |
| 8                                                                                                | 23395.56      | 34.3        | 34.1 | 38.7                    | 31.1                | 9.0                   | 0.6                       | 42.0     | 41.8 | 53.9                    | 11.9   | 12.1 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 9                                                                                                | 29244.45      | 24.2        | 24.5 | 40.0                    | 24.4                | 7.4                   | 0.0                       | 31.6     | 31.9 | 53.9                    | 22.3   | 22.0 |
| 10                                                                                               | 35093.34      | 29.2        | 29.6 | 40.8                    | 24.4                | 8.4                   | 0.0                       | 38.4     | 38.8 | 53.9                    | 15.5   | 15.1 |

\* Reference data

20dBc (Fundamental 5848.9 MHz) (RBW: 100kHz, VBW: 300kHz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING |       | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT |       | Limit<br>20dBc<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|---------------|-------------|-------|-------------------------|---------------------|-----------------------|---------------------------|--------|-------|----------------------------|--------|------|
|                                                                                                |               | HOR         | VER   |                         |                     |                       |                           | HOR    | VER   |                            | HOR    | VER  |
|                                                                                                |               | [dBuV]      |       |                         |                     |                       |                           |        |       |                            |        |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |               |             |       |                         |                     |                       |                           |        |       |                            |        |      |
| 0                                                                                              | 5848.89       | 113.1       | 110.4 | 32.5                    | 30.6                | 4.2                   | 0.0                       | 119.2  | 116.5 | -                          | -      | -    |
| 5                                                                                              | 5850.00       | 66.3        | 63.7  | 32.5                    | 30.6                | 4.2                   | 0.0                       | 72.4   | 69.8  | Funda-20dB                 | 26.8   | 26.7 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |       |                         |                     |                       |                           |        |       |                            |        |      |
| 7                                                                                              | 17546.67      | 61.7        | 58.3  | 44.9                    | 31.0                | 7.6                   | 1.3                       | 75.0   | 71.6  | Funda-20dB                 | 24.2   | 24.9 |

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 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 differences might be observed.

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

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## Radiated Spurious Emission (above 1GHz)

### External Antenna, Rx, Ch. Mid

UL Apex Co.,Ltd.

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001768  
Power : AC 120V / 60Hz  
Mode : Rx 5788.240269MHz  
EUT-Position : Normal (Ant: External Antenna)  
Ant-Position : H: 0deg., V: 90deg., External Antenna

Head Office EMC Lab. No.3 Semi Anechoic Chamber  
Regulation : RSS-Gen 4.8 and 6 and 7.2.3  
Test Distance : 3m / 1m  
Date : April 24, 2007  
Temperature : 24 deg.C.  
Humidity : 47 %  
Engineer : Kenichi Adachi

#### PK DETECT

(RBW: 1MHz, VBW: 1MHz)

| No.                                                                                            | FREQ<br><br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[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                                                                                              | 2426.46           | 43.4        | 44.5 | 27.4                    | 31.5                | 3.1                   | 0.0                       | 42.4     | 43.5 | 73.9                    | 31.5   | 30.4 |
| 2                                                                                              | 3359.68           | 47.1        | 47.4 | 28.7                    | 31.1                | 3.5                   | 0.0                       | 48.2     | 48.5 | 73.9                    | 25.7   | 25.4 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 3                                                                                              | 11576.48          | 42.3        | 42.1 | 39.6                    | 32.4                | 6.5                   | 0.0                       | 46.5     | 46.3 | 73.9                    | 27.4   | 27.6 |
| 4                                                                                              | 17364.72          | 44.4        | 44.3 | 43.4                    | 31.0                | 7.5                   | 0.0                       | 54.8     | 54.7 | 73.9                    | 19.1   | 19.2 |

#### AV DETECT

(RBW: 1MHz, VBW: 10Hz)

| No.                                                                                            | FREQ<br><br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[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                                                                                              | 2426.46           | 34.9        | 36.6 | 27.4                    | 31.5                | 3.1                   | 0.0                       | 33.9     | 35.6 | 53.9                    | 20.0   | 18.3 |
| 2                                                                                              | 3359.68           | 43.1        | 44.4 | 28.7                    | 31.1                | 3.5                   | 0.0                       | 44.2     | 45.5 | 53.9                    | 9.7    | 8.4  |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 3                                                                                              | 11576.48          | 31.2        | 31.2 | 39.6                    | 32.4                | 6.5                   | 0.0                       | 35.4     | 35.4 | 53.9                    | 18.5   | 18.5 |
| 4                                                                                              | 17364.72          | 33.5        | 33.4 | 43.4                    | 31.0                | 7.5                   | 0.0                       | 43.9     | 43.8 | 53.9                    | 10.0   | 10.1 |

Test Distance 1.0m : Distance Factor(Dfac) =  $20\log(3/1.0) = 9.54$  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 differences might be observed.

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

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## Radiated Spurious Emission (above 1GHz)

### Internal Antenna, Tx, Ch. Low

UL Japan, Inc.

Head Office EMC Lab. No.4 / No.3 Semi Anechoic Chamber

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001822  
Power : AC 120V / 60Hz  
Mode : Tx 5725.809328MHz  
EUT-Position : Normal (Ant: Internal Antenna)

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m / 0.5m  
Date : 2007/5/14 / 2007/5/17  
Temperature : 20deg.C. / 25deg.C.  
Humidity : 46% / 55%  
Engineer : Shinya Watanabe

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

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |        | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |          | Limit<br>PK<br>[dBuV/m] | MARGIN |      |
|--------------------------------------------------------------------------------------------------|---------------|-------------|--------|-------------------------|---------------------|-----------------------|---------------------------|----------|----------|-------------------------|--------|------|
|                                                                                                  |               | HOR         | VER    |                         |                     |                       |                           | HOR      | VER      |                         | HOR    | VER  |
|                                                                                                  |               | [dBuV]      | [dBuV] |                         |                     |                       |                           | [dBuV/m] | [dBuV/m] |                         | [dB]   | [dB] |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss          |               |             |        |                         |                     |                       |                           |          |          |                         |        |      |
| 1                                                                                                | 2400.00       | 53.9        | 53.6   | 26.6                    | 32.1                | 2.5                   | 0.0                       | 50.9     | 50.6     | 73.9                    | 23.0   | 23.3 |
| 2*                                                                                               | 5725.00       | 85.6        | 83.9   | 32.0                    | 31.1                | 3.6                   | 0.0                       | 90.1     | 88.4     | 73.9                    | -      | -    |
| 3                                                                                                | 6277.44       | 46.7        | 51.3   | 33.2                    | 31.4                | 3.8                   | 0.0                       | 52.3     | 56.9     | 73.9                    | 21.6   | 17.0 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |        |                         |                     |                       |                           |          |          |                         |        |      |
| 4                                                                                                | 11451.54      | 53.4        | 49.6   | 39.4                    | 33.1                | 5.5                   | 0.8                       | 56.5     | 52.7     | 73.9                    | 17.4   | 21.2 |
| 5*                                                                                               | 17177.45      | 57.1        | 60.6   | 40.7                    | 32.3                | 6.6                   | 0.4                       | 63.0     | 66.5     | 73.9                    | -      | -    |
| 6                                                                                                | 22903.16      | 54.6        | 53.6   | 38.6                    | 32.9                | 7.9                   | 0.5                       | 59.2     | 58.2     | 73.9                    | 14.7   | 15.7 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |        |                         |                     |                       |                           |          |          |                         |        |      |
| 7                                                                                                | 28628.45      | 34.9        | 35.1   | 39.6                    | 24.3                | 7.3                   | 0.0                       | 41.9     | 42.1     | 73.9                    | 32.0   | 31.8 |
| 8                                                                                                | 34355.06      | 38.2        | 39.2   | 40.4                    | 24.6                | 8.2                   | 0.0                       | 46.6     | 47.6     | 73.9                    | 27.3   | 26.3 |

\* Reference data

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

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |        | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |          | Limit<br>AV<br>[dBuV/m] | MARGIN |      |
|--------------------------------------------------------------------------------------------------|---------------|-------------|--------|-------------------------|---------------------|-----------------------|---------------------------|----------|----------|-------------------------|--------|------|
|                                                                                                  |               | HOR         | VER    |                         |                     |                       |                           | HOR      | VER      |                         | HOR    | VER  |
|                                                                                                  |               | [dBuV]      | [dBuV] |                         |                     |                       |                           | [dBuV/m] | [dBuV/m] |                         | [dB]   | [dB] |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss          |               |             |        |                         |                     |                       |                           |          |          |                         |        |      |
| 1                                                                                                | 2400.00       | 40.1        | 39.2   | 26.6                    | 32.1                | 2.5                   | 0.0                       | 37.1     | 36.2     | 53.9                    | 16.8   | 17.7 |
| 2*                                                                                               | 5725.00       | 45.2        | 42.7   | 32.0                    | 31.1                | 3.6                   | 0.0                       | 49.7     | 47.2     | 53.9                    | -      | -    |
| 3                                                                                                | 6277.44       | 36.1        | 36.1   | 33.2                    | 31.4                | 3.8                   | 0.0                       | 41.7     | 41.7     | 53.9                    | 12.2   | 12.2 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |        |                         |                     |                       |                           |          |          |                         |        |      |
| 4                                                                                                | 11451.54      | 32.9        | 32.5   | 39.4                    | 33.1                | 5.5                   | 0.8                       | 36.0     | 35.6     | 53.9                    | 17.9   | 18.3 |
| 5*                                                                                               | 17177.45      | 34.9        | 35.4   | 40.7                    | 32.3                | 6.6                   | 0.4                       | 40.8     | 41.3     | 53.9                    | -      | -    |
| 6                                                                                                | 22903.16      | 34.9        | 34.9   | 38.6                    | 32.9                | 7.9                   | 0.5                       | 39.5     | 39.5     | 53.9                    | 14.4   | 14.4 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |        |                         |                     |                       |                           |          |          |                         |        |      |
| 7                                                                                                | 28628.45      | 22.6        | 22.6   | 39.6                    | 24.3                | 7.3                   | 0.0                       | 29.6     | 29.6     | 53.9                    | 24.3   | 24.3 |
| 8                                                                                                | 34355.06      | 26.6        | 26.6   | 40.4                    | 24.6                | 8.2                   | 0.0                       | 35.0     | 35.0     | 53.9                    | 18.9   | 18.9 |

\* Reference data

#### 20dBc (Fundamental) 5725.8 MHz (RBW: 100kHz, VBW: 300kHz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING |        | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |          | Limit<br>20dBc<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|---------------|-------------|--------|-------------------------|---------------------|-----------------------|---------------------------|----------|----------|----------------------------|--------|------|
|                                                                                                |               | HOR         | VER    |                         |                     |                       |                           | HOR      | VER      |                            | HOR    | VER  |
|                                                                                                |               | [dBuV]      | [dBuV] |                         |                     |                       |                           | [dBuV/m] | [dBuV/m] |                            | [dB]   | [dB] |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |               |             |        |                         |                     |                       |                           |          |          |                            |        |      |
| 0                                                                                              | 5725.81       | 109.4       | 108.3  | 32.0                    | 31.1                | 3.6                   | 0.0                       | 113.9    | 112.8    | -                          | -      | -    |
| 2                                                                                              | 5725.00       | 50.8        | 47.9   | 32.0                    | 31.1                | 3.6                   | 0.0                       | 55.3     | 52.4     | Funda-20dB                 | 38.6   | 40.4 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |        |                         |                     |                       |                           |          |          |                            |        |      |
| 5                                                                                              | 17177.45      | 61.4        | 56.9   | 40.7                    | 32.3                | 6.6                   | 0.4                       | 67.3     | 62.8     | Funda-20dB                 | 26.6   | 30.0 |

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 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 differences might be observed.

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

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Test report No. : 27IE0241-HO-A-R1  
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FCC ID : B3Q8CAE19

## Radiated Spurious Emission (above 1GHz)

### Internal Antenna, Tx, Ch. Mid

UL Japan, Inc.

Head Office EMC Lab. No.4 / No.3 Semi Anechoic Chamber

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001822  
Power : AC 120V / 60Hz  
Mode : Tx 5788.240269MHz  
EUT-Position : Normal (Ant: Internal Antenna)

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m / 0.5m  
Date : 2007/5/14 / 2007/5/17  
Temperature : 20deg.C. / 25deg.C.  
Humidity : 46% / 55%  
Engineer : Shinya Watanabe

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

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[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                                                                                                | 1367.96       | 51.4        | 53.0 | 24.6                    | 33.6                | 1.9                   | 0.0                       | 44.3     | 45.9 | 73.9                    | 29.6   | 28.0 |
| 2                                                                                                | 2428.54       | 54.0        | 55.4 | 26.7                    | 32.1                | 2.5                   | 0.0                       | 51.1     | 52.5 | 73.9                    | 22.8   | 21.4 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 3                                                                                                | 11576.53      | 54.7        | 51.5 | 39.3                    | 33.1                | 5.5                   | 0.7                       | 57.6     | 54.4 | 73.9                    | 16.3   | 19.5 |
| 4*                                                                                               | 17364.70      | 58.9        | 64.9 | 42.1                    | 32.4                | 6.6                   | 0.6                       | 66.3     | 72.3 | 73.9                    | -      | -    |
| 5                                                                                                | 23152.96      | 56.7        | 57.5 | 38.7                    | 32.9                | 7.9                   | 0.6                       | 61.5     | 62.3 | 73.9                    | 12.4   | 11.6 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 6                                                                                                | 28605.64      | 35.5        | 35.9 | 39.6                    | 24.3                | 7.3                   | 0.0                       | 42.5     | 42.9 | 73.9                    | 31.4   | 31.0 |
| 7                                                                                                | 34354.72      | 37.5        | 40.5 | 40.4                    | 24.6                | 8.2                   | 0.0                       | 45.9     | 48.9 | 73.9                    | 28.0   | 25.0 |

\* Reference data

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

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[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                                                                                                | 1367.96       | 37.8        | 44.1 | 24.6                    | 33.6                | 1.9                   | 0.0                       | 30.7     | 37.0 | 53.9                    | 23.2   | 16.9 |
| 2                                                                                                | 2428.54       | 38.7        | 39.1 | 26.7                    | 32.1                | 2.5                   | 0.0                       | 35.8     | 36.2 | 53.9                    | 18.1   | 17.7 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 3                                                                                                | 11576.53      | 33.0        | 32.5 | 39.3                    | 33.1                | 5.5                   | 0.7                       | 35.9     | 35.4 | 53.9                    | 18.0   | 18.5 |
| 4*                                                                                               | 17364.70      | 34.0        | 36.2 | 42.1                    | 32.4                | 6.6                   | 0.6                       | 41.4     | 43.6 | 53.9                    | -      | -    |
| 5                                                                                                | 23152.96      | 35.3        | 35.4 | 38.7                    | 32.9                | 7.9                   | 0.6                       | 40.1     | 40.2 | 53.9                    | 13.8   | 13.7 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 6                                                                                                | 28605.64      | 22.0        | 22.8 | 39.6                    | 24.3                | 7.3                   | 0.0                       | 29.0     | 29.8 | 53.9                    | 24.9   | 24.1 |
| 7                                                                                                | 34354.72      | 26.6        | 26.9 | 40.4                    | 24.6                | 8.2                   | 0.0                       | 35.0     | 35.3 | 53.9                    | 18.9   | 18.6 |

\* Reference data

#### 20dBc (Fundamental 5788.2 MHz) (RBW: 100kHz, VBW: 300kHz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING<br>[dBuV] |       | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT<br>[dBuV/m] |       | Limit<br>20dBc<br>[dBuV/m] | MARGIN<br>[dB] |      |
|------------------------------------------------------------------------------------------------|---------------|-----------------------|-------|-------------------------|---------------------|-----------------------|---------------------------|--------------------|-------|----------------------------|----------------|------|
|                                                                                                |               | HOR                   | VER   |                         |                     |                       |                           | HOR                | VER   |                            | HOR            | VER  |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |               |                       |       |                         |                     |                       |                           |                    |       |                            |                |      |
| 0                                                                                              | 5788.24       | 110.3                 | 107.4 | 32.1                    | 31.1                | 3.6                   | 0.0                       | 114.9              | 112.0 | -                          | -              | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |                       |       |                         |                     |                       |                           |                    |       |                            |                |      |
| 4                                                                                              | 17364.70      | 61.4                  | 56.9  | 42.1                    | 32.4                | 6.6                   | 0.6                       | 68.8               | 64.3  | Funda-20dB                 | 26.1           | 27.7 |

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 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 differences might be observed.

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

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## Radiated Spurious Emission (above 1GHz)

### Internal Antenna, Tx, Ch. High

UL Japan, Inc.

Head Office EMC Lab. No.4 / No.3 Semi Anechoic Chamber

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001822  
Power : AC 120V / 60Hz  
Mode : Tx 5848.889420MHz  
EUT-Position : Normal (Ant: Internal Antenna)

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m / 0.5m  
Date : 2007/5/14 / 2007/5/17  
Temperature : 20deg.C / 25deg.C.  
Humidity : 46% / 55%  
Engineer : Shinya Watanabe

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

| No.                                                                                              | FREQ     | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT |          | Limit<br>PK<br>[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                                                                                                | 1367.99  | 50.0        | 53.2 | 24.6                    | 33.6                | 1.9                   | 0.0                       | 42.9   | 46.1     | 73.9                    | 31.0   | 27.8 |
| 2                                                                                                | 2489.20  | 58.7        | 55.2 | 26.8                    | 32.1                | 2.6                   | 0.0                       | 56.0   | 52.5     | 73.9                    | 17.9   | 21.4 |
| 3 *                                                                                              | 5850.00  | 101.0       | 93.5 | 32.1                    | 31.0                | 3.7                   | 0.0                       | 105.8  | 98.3     | 73.9                    | -      | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |          |             |      |                         |                     |                       |                           |        |          |                         |        |      |
| 4                                                                                                | 11697.68 | 54.8        | 51.7 | 39.1                    | 33.1                | 5.5                   | 0.7                       | 57.5   | 54.4     | 73.9                    | 16.4   | 19.5 |
| 5*                                                                                               | 17546.68 | 63.3        | 64.8 | 43.4                    | 32.4                | 6.7                   | 0.6                       | 72.1   | 73.6     | 73.9                    | -      | -    |
| 6                                                                                                | 23395.54 | 50.8        | 55.3 | 38.7                    | 32.9                | 8.0                   | 0.6                       | 55.7   | 60.2     | 73.9                    | 18.2   | 13.7 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |          |             |      |                         |                     |                       |                           |        |          |                         |        |      |
| 7                                                                                                | 28629.11 | 35.3        | 35.4 | 39.6                    | 24.3                | 7.3                   | 0.0                       | 42.3   | 42.4     | 73.9                    | 31.6   | 31.5 |
| 8                                                                                                | 34354.82 | 40.2        | 43.1 | 40.4                    | 24.6                | 8.2                   | 0.0                       | 48.6   | 51.5     | 73.9                    | 25.3   | 22.4 |

\* Reference data

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

| No.                                                                                              | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[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                                                                                                | 1367.99       | 38.7        | 42.6 | 24.6                    | 33.6                | 1.9                   | 0.0                       | 31.6     | 35.5 | 53.9                    | 22.3   | 18.4 |
| 2                                                                                                | 2489.20       | 42.2        | 39.3 | 26.8                    | 32.1                | 2.6                   | 0.0                       | 39.5     | 36.6 | 53.9                    | 14.4   | 17.3 |
| 3 *                                                                                              | 5850.00       | 44.7        | 43.1 | 32.1                    | 31.0                | 3.7                   | 0.0                       | 49.5     | 47.9 | 53.9                    | -      | -    |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac   |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 4                                                                                                | 11697.68      | 32.7        | 32.3 | 39.1                    | 33.1                | 5.5                   | 0.7                       | 35.4     | 35.0 | 53.9                    | 18.5   | 18.9 |
| 5*                                                                                               | 17546.68      | 35.6        | 35.6 | 43.4                    | 32.4                | 6.7                   | 0.6                       | 44.4     | 44.4 | 53.9                    | -      | -    |
| 6                                                                                                | 23395.54      | 33.9        | 34.4 | 38.7                    | 32.9                | 8.0                   | 0.6                       | 38.8     | 39.3 | 53.9                    | 15.1   | 14.6 |
| Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 7                                                                                                | 28629.11      | 22.0        | 22.4 | 39.6                    | 24.3                | 7.3                   | 0.0                       | 29.0     | 29.4 | 53.9                    | 24.9   | 24.5 |
| 8                                                                                                | 34354.82      | 26.9        | 29.9 | 40.4                    | 24.6                | 8.2                   | 0.0                       | 35.3     | 38.3 | 53.9                    | 18.6   | 15.6 |

\* Reference data

#### 20dBc (Fundamental 5848.9 MHz) (RBW: 100kHz, VBW: 300kHz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING                                                                             |       | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT |       | Limit<br>20dBc<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------|-------|-------------------------|---------------------|-----------------------|---------------------------|--------|-------|----------------------------|--------|------|
|                                                                                                |               | HOR                                                                                     | VER   |                         |                     |                       |                           | HOR    | VER   |                            | HOR    | VER  |
|                                                                                                |               | Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss |       |                         |                     |                       |                           |        |       |                            |        |      |
| 0                                                                                              | 5848.89       | 111.0                                                                                   | 109.5 | 32.1                    | 31.0                | 3.7                   | 0.0                       | 115.8  | 114.3 | -                          | -      | -    |
| 3                                                                                              | 5850.00       | 60.2                                                                                    | 49.1  | 32.1                    | 31.1                | 3.6                   | 0.0                       | 64.8   | 53.7  | Funda-20dB                 | 31.0   | 40.6 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |                                                                                         |       |                         |                     |                       |                           |        |       |                            |        |      |
| 5                                                                                              | 17546.68      | 62.3                                                                                    | 62.3  | 43.4                    | 32.4                | 6.7                   | 0.6                       | 71.1   | 71.1  | Funda-20dB                 | 24.7   | 23.2 |

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

Test Distance 0.5m : Distance Factor(Dfac) =  $20\log(3/0.5) = 15.56$  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 differences might be observed.

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

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## Radiated Spurious Emission (above 1GHz)

### Internal Antenna, Rx, Ch. Mid

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : BROTHER INDUSTRIES, LTD.  
Equipment : Multi-Function Center  
Model : MFC-885CW  
S/N : U61823C7F001822  
Power : AC 120V / 60Hz  
Mode : Rx 5788.240269MHz  
EUT-Position : Normal (Ant: Internal Antenna)

Regulation : RSS-Gen 4.8 and 6 and 7.2.3  
Test Distance : 3m / 1m  
Date : 2007/5/14  
Temperature : 20deg.C.  
Humidity : 46%  
Engineer : Shinya Watanabe

#### PK DETECT

(RBW: 1MHz, VBW: 1MHz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[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                                                                                              | 1065.77       | 47.0        | 48.5 | 23.5                    | 34.5                | 1.7                   | 0.0                       | 37.7     | 39.2 | 73.9                    | 36.2   | 34.7 |
| 2                                                                                              | 1367.99       | 49.0        | 47.1 | 24.6                    | 33.6                | 1.9                   | 0.0                       | 41.9     | 40.0 | 73.9                    | 32.0   | 33.9 |
| 3                                                                                              | 3359.67       | 47.0        | 49.8 | 28.0                    | 31.6                | 3.0                   | 0.0                       | 46.4     | 49.2 | 73.9                    | 27.5   | 24.7 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 4                                                                                              | 11576.48      | 44.9        | 46.3 | 39.3                    | 33.1                | 5.5                   | 0.0                       | 47.1     | 48.5 | 73.9                    | 26.8   | 25.4 |
| 5                                                                                              | 17364.72      | 50.6        | 50.7 | 42.1                    | 32.4                | 6.6                   | 0.0                       | 57.4     | 57.5 | 73.9                    | 16.5   | 16.4 |

#### AV DETECT

(RBW: 1MHz, VBW: 10Hz)

| No.                                                                                            | FREQ     | S/A READING |        | ANT  | AMP  | CABLE | Hi-Pass | RESULT |      | Limit | MARGIN |          |
|------------------------------------------------------------------------------------------------|----------|-------------|--------|------|------|-------|---------|--------|------|-------|--------|----------|
|                                                                                                |          | HOR         | VER    |      |      |       |         | HOR    | VER  |       | HOR    | VER      |
|                                                                                                | [MHz]    | [dBuV]      | Factor |      |      |       |         | GAIN   | LOSS |       | Filter | [dBuV/m] |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |          |             |        |      |      |       |         |        |      |       |        |          |
| 1                                                                                              | 1065.77  | 36.7        | 38.9   | 23.5 | 34.5 | 1.7   | 0.0     | 27.4   | 29.6 | 53.9  | 26.5   | 24.3     |
| 2                                                                                              | 1367.99  | 39.7        | 39.5   | 24.6 | 33.6 | 1.9   | 0.0     | 32.6   | 32.4 | 53.9  | 21.3   | 21.5     |
| 3                                                                                              | 3359.67  | 40.2        | 44.5   | 28.0 | 31.6 | 3.0   | 0.0     | 39.6   | 43.9 | 53.9  | 14.3   | 10.0     |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |          |             |        |      |      |       |         |        |      |       |        |          |
| 4                                                                                              | 11576.48 | 35.8        | 35.8   | 39.3 | 33.1 | 5.5   | 0.0     | 38.0   | 38.0 | 53.9  | 15.9   | 15.9     |
| 5                                                                                              | 17364.72 | 40.4        | 40.4   | 42.1 | 32.4 | 6.6   | 0.0     | 47.2   | 47.2 | 53.9  | 6.7    | 6.7      |

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 differences might be observed.

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

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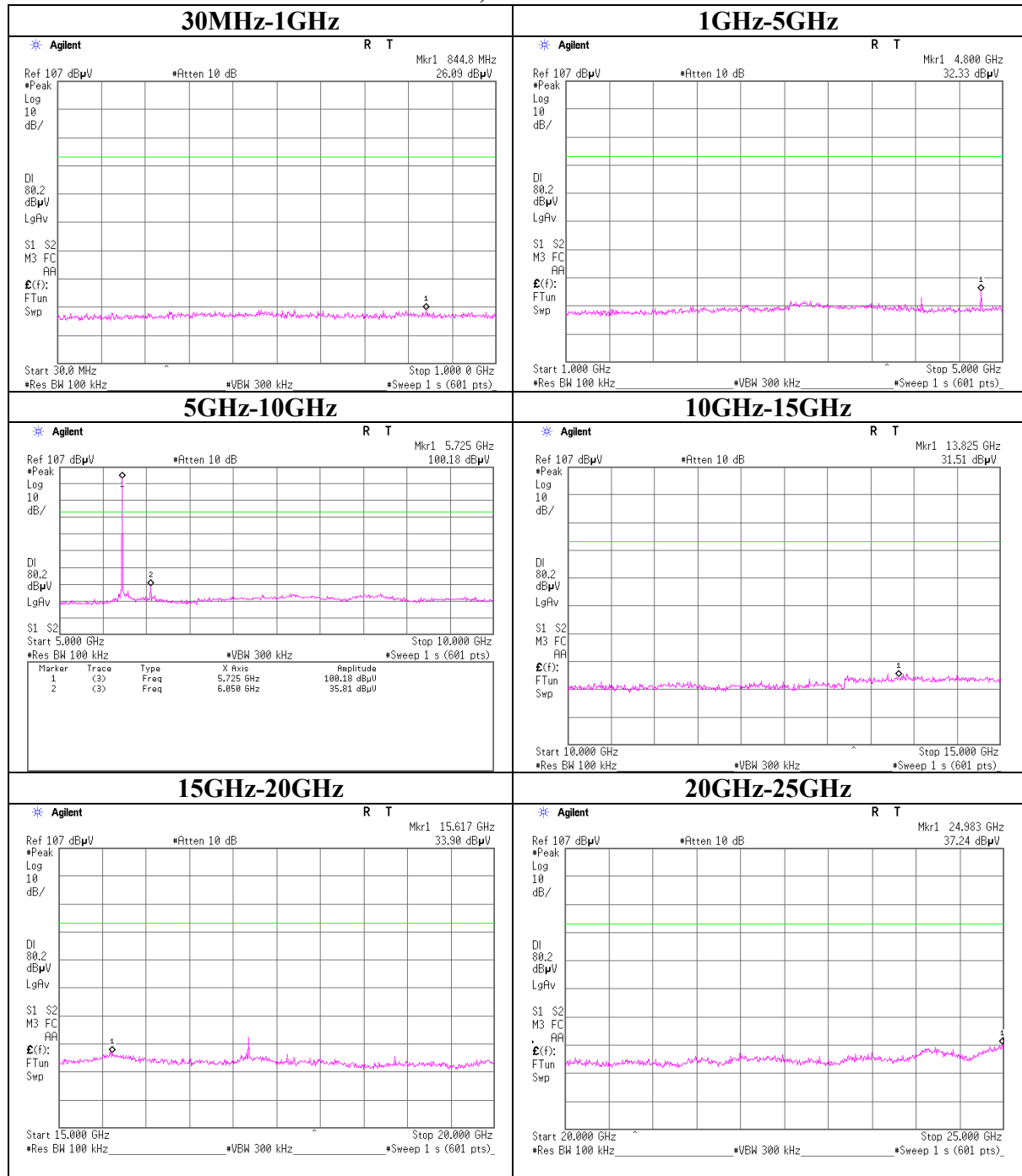
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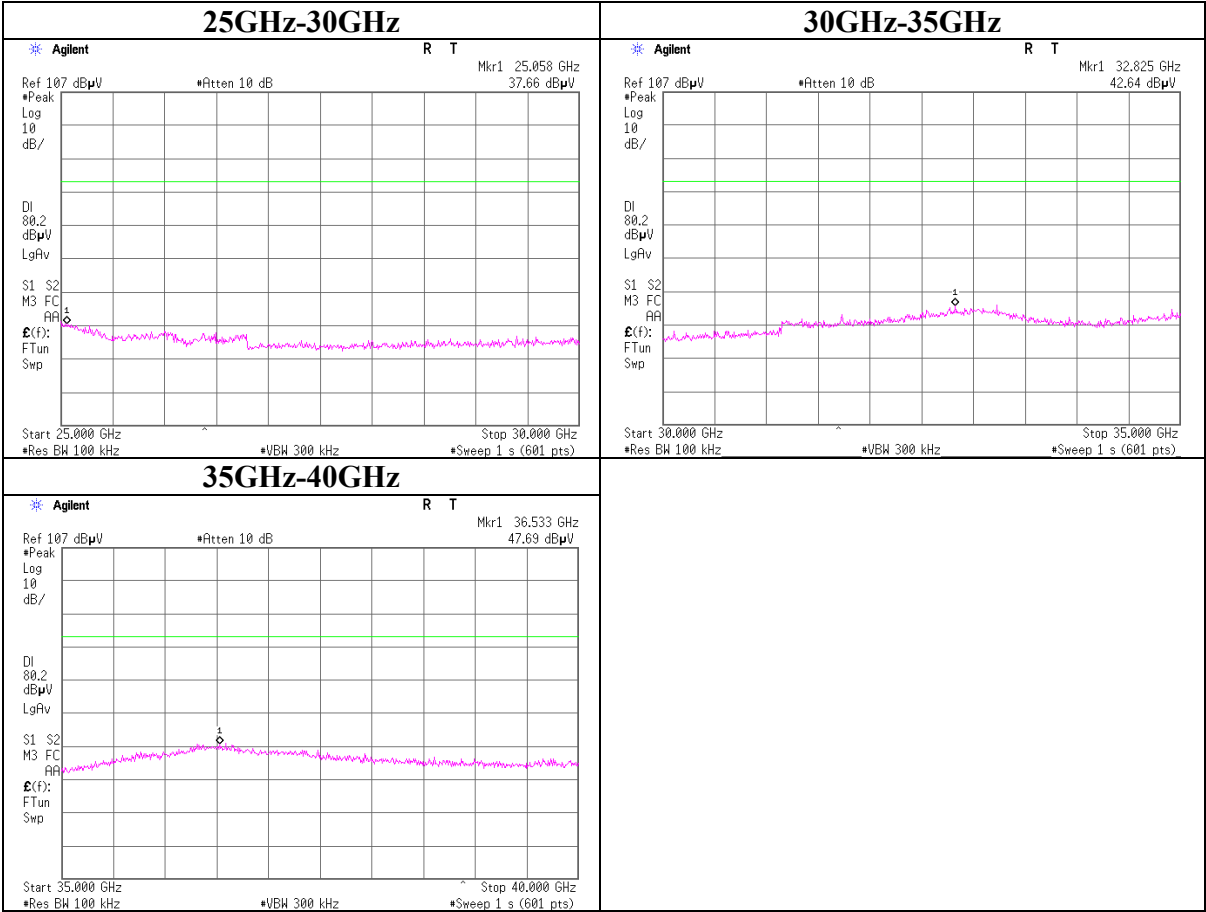
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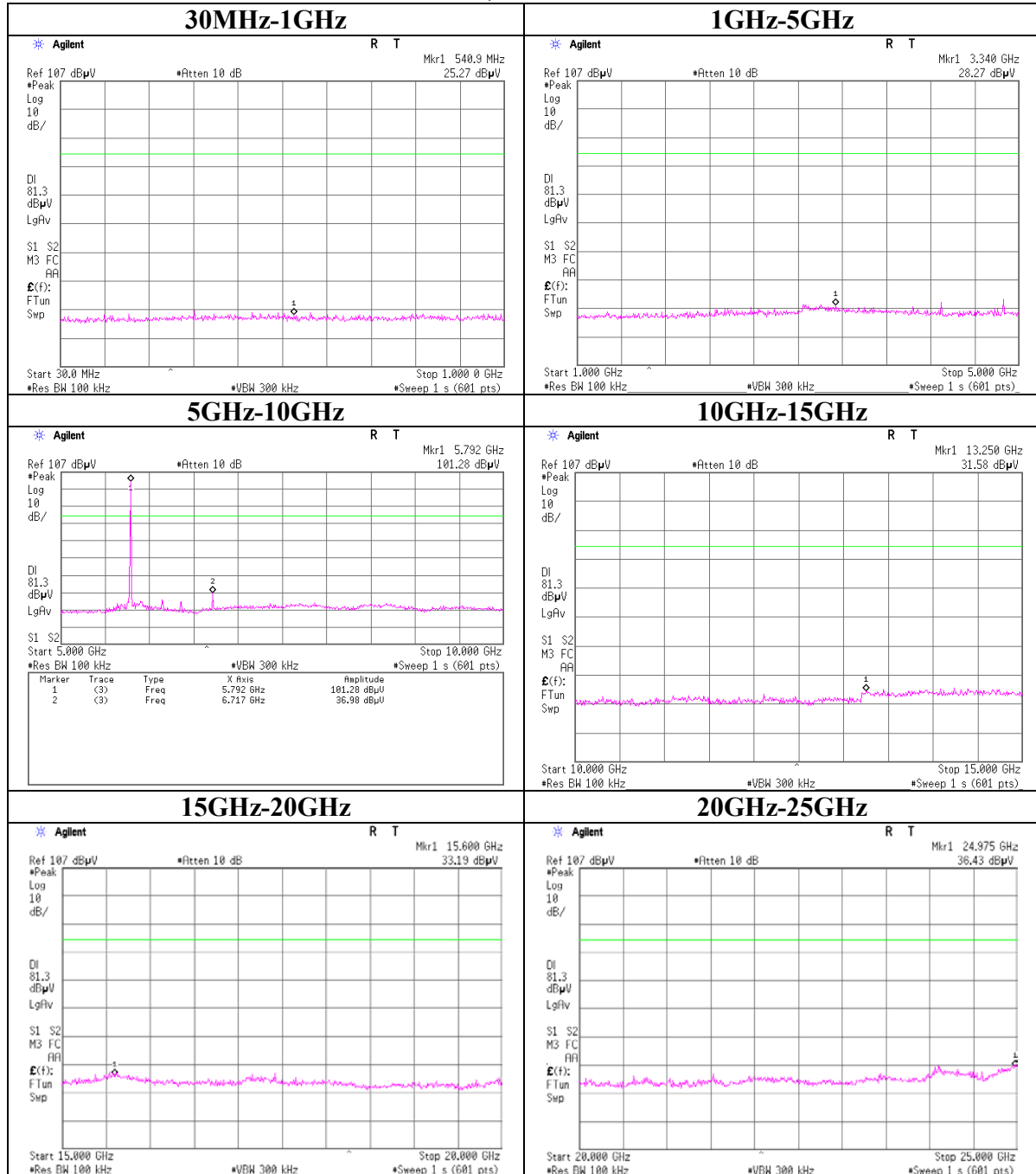
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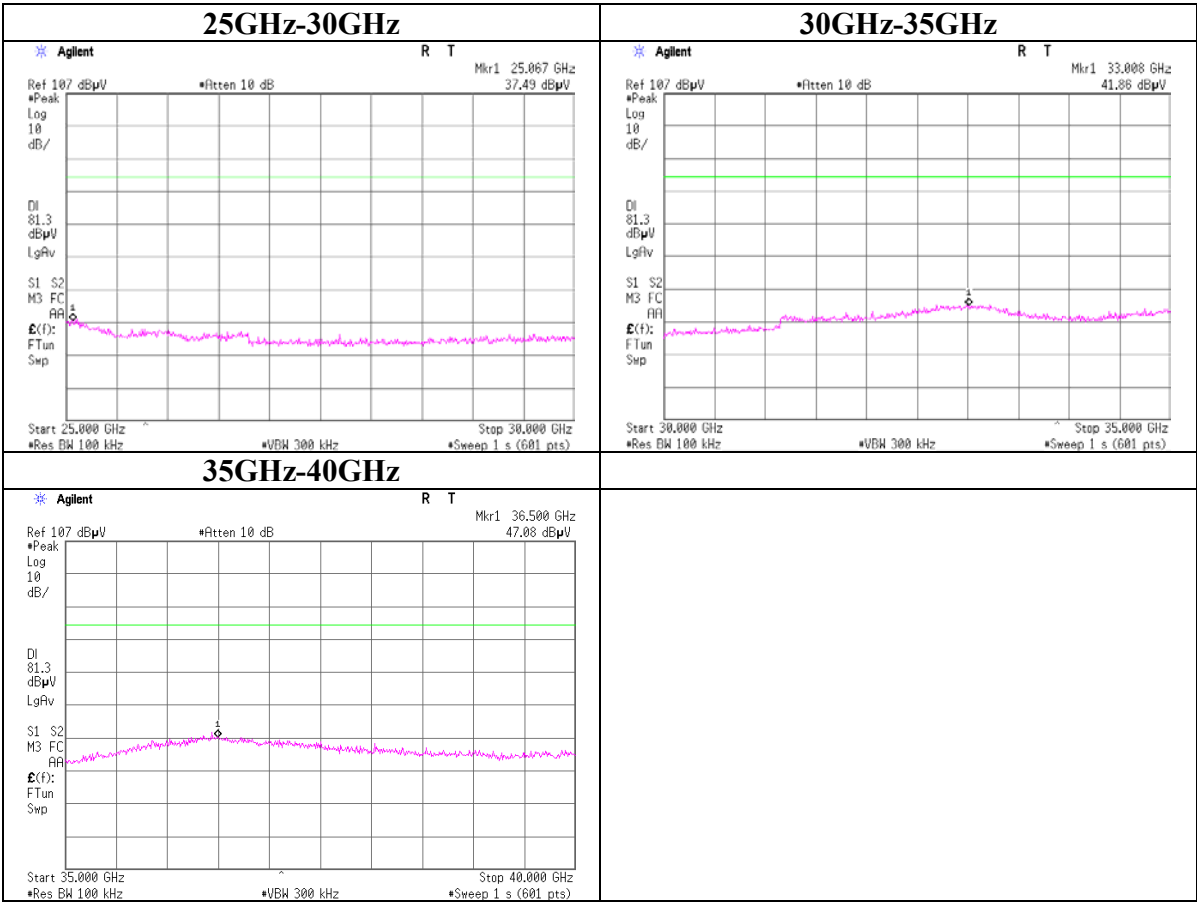
**Conducted Spurious Emission**  
**Tx, Ch:Low**



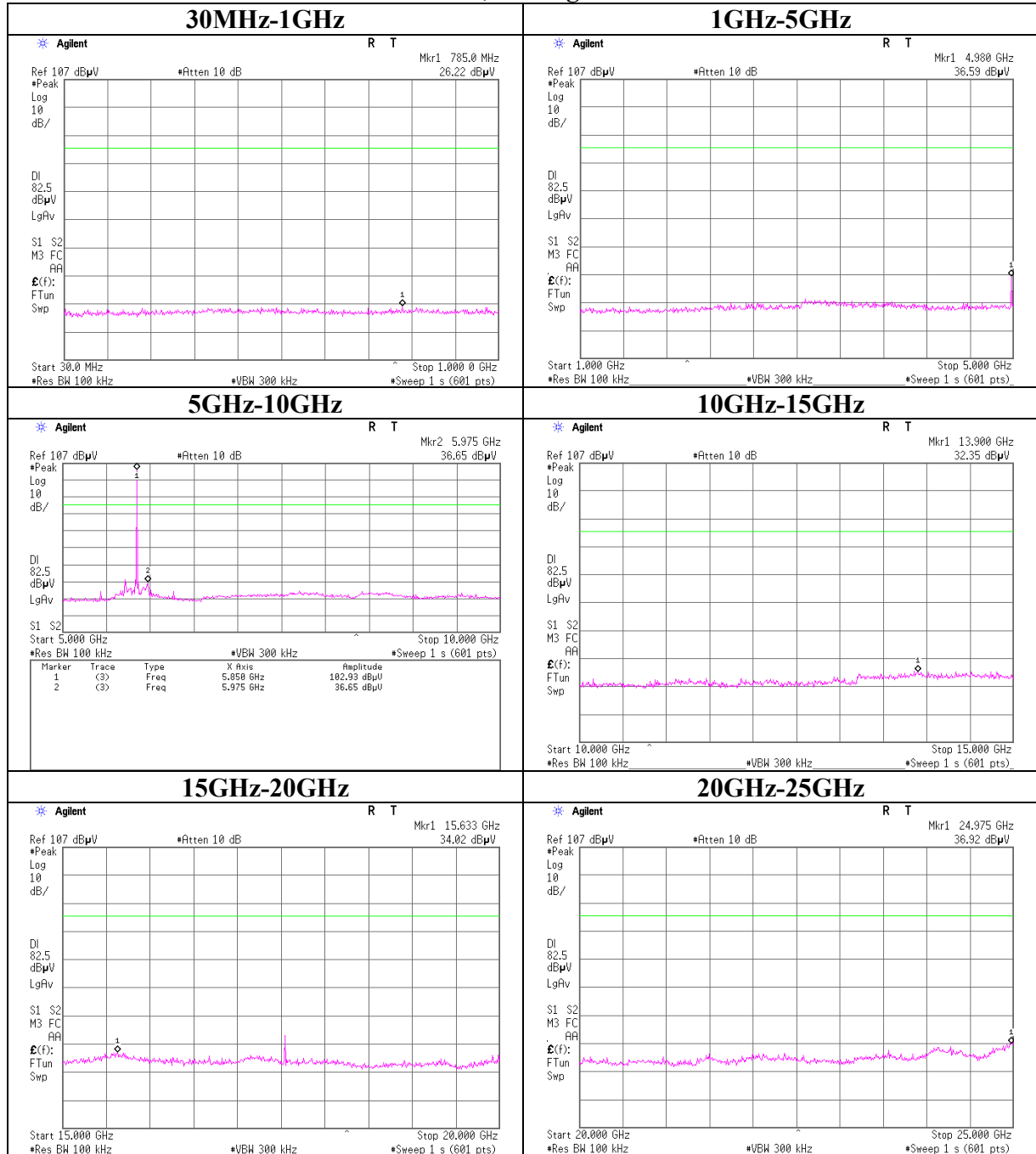


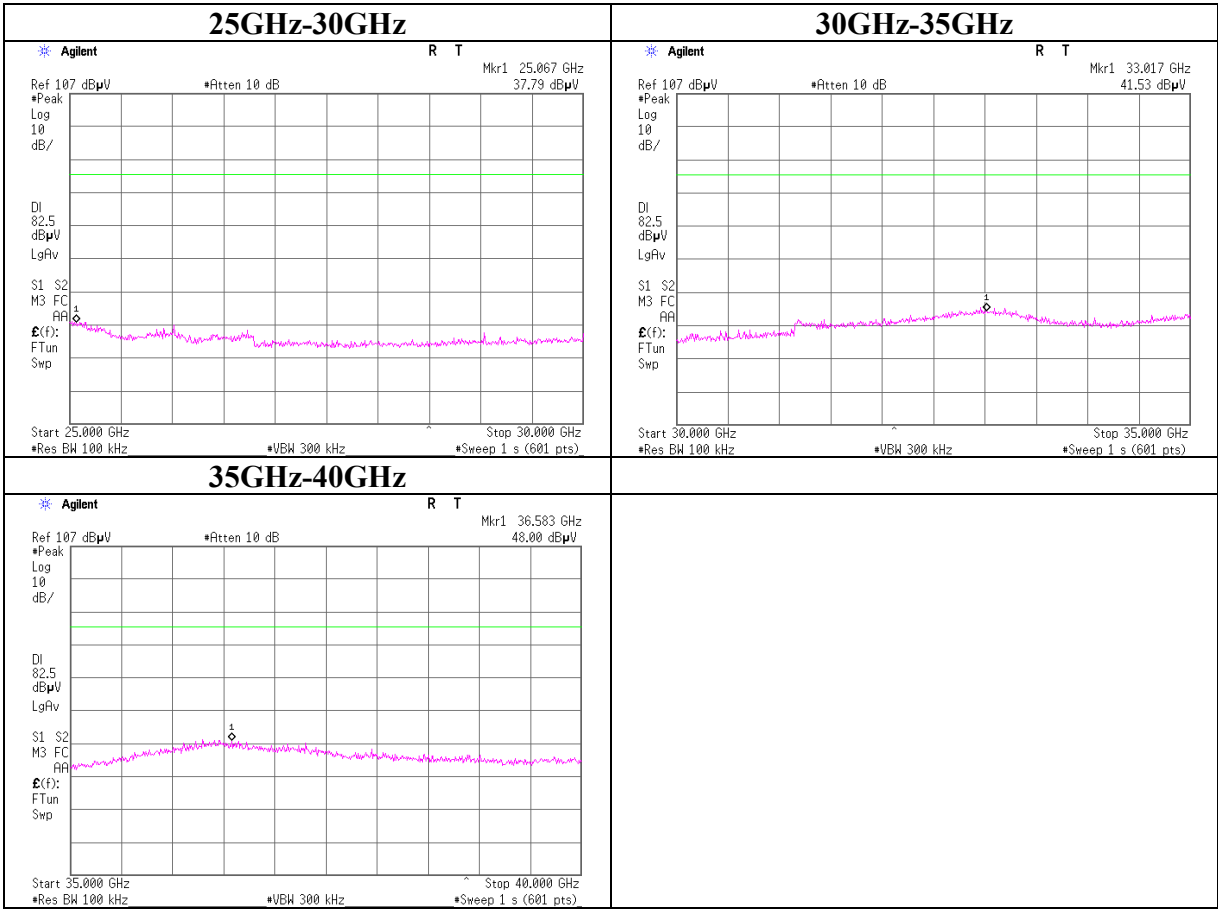
**Conducted Spurious Emission**  
**Tx, Ch:Mid**





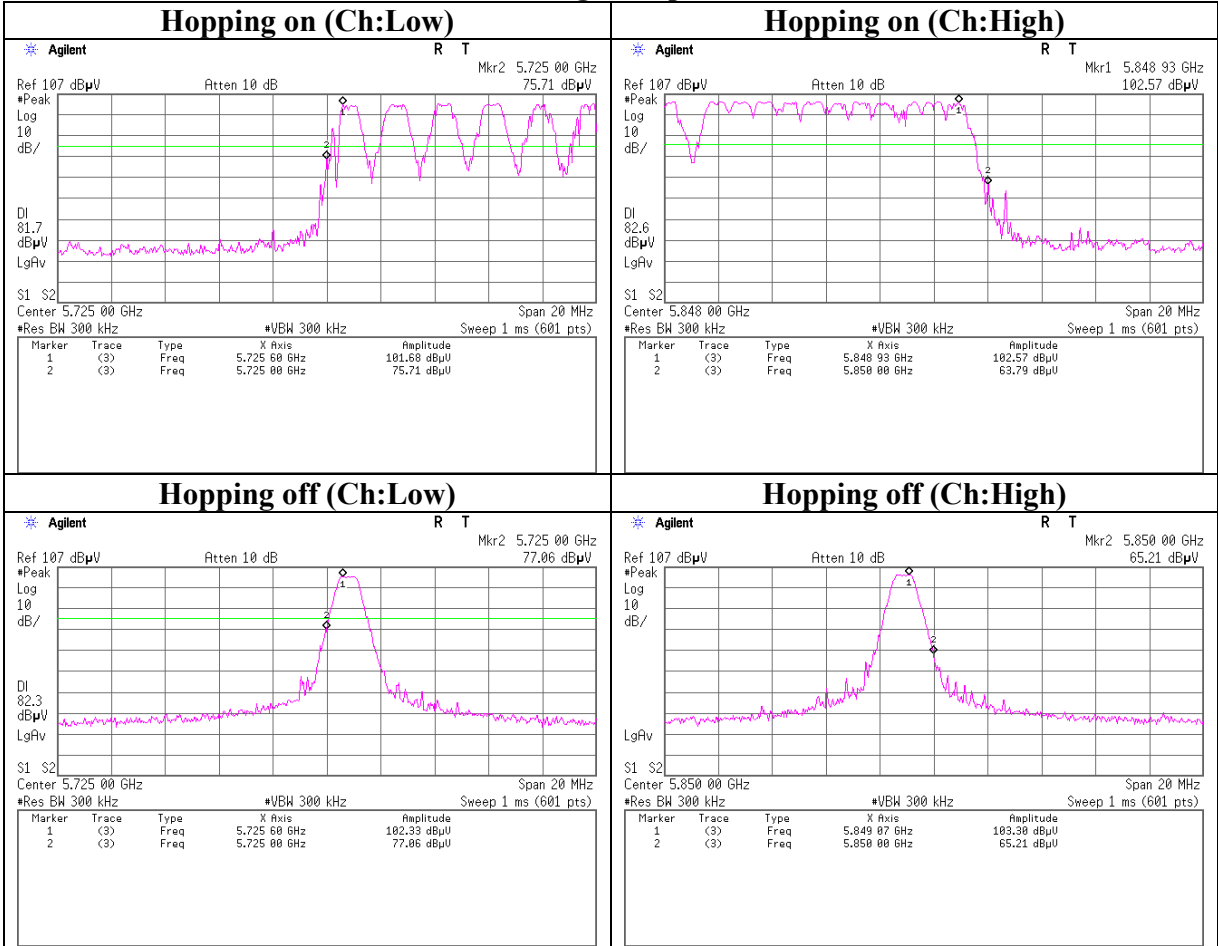
**Conducted Spurious Emission**  
**Tx, Ch:High**





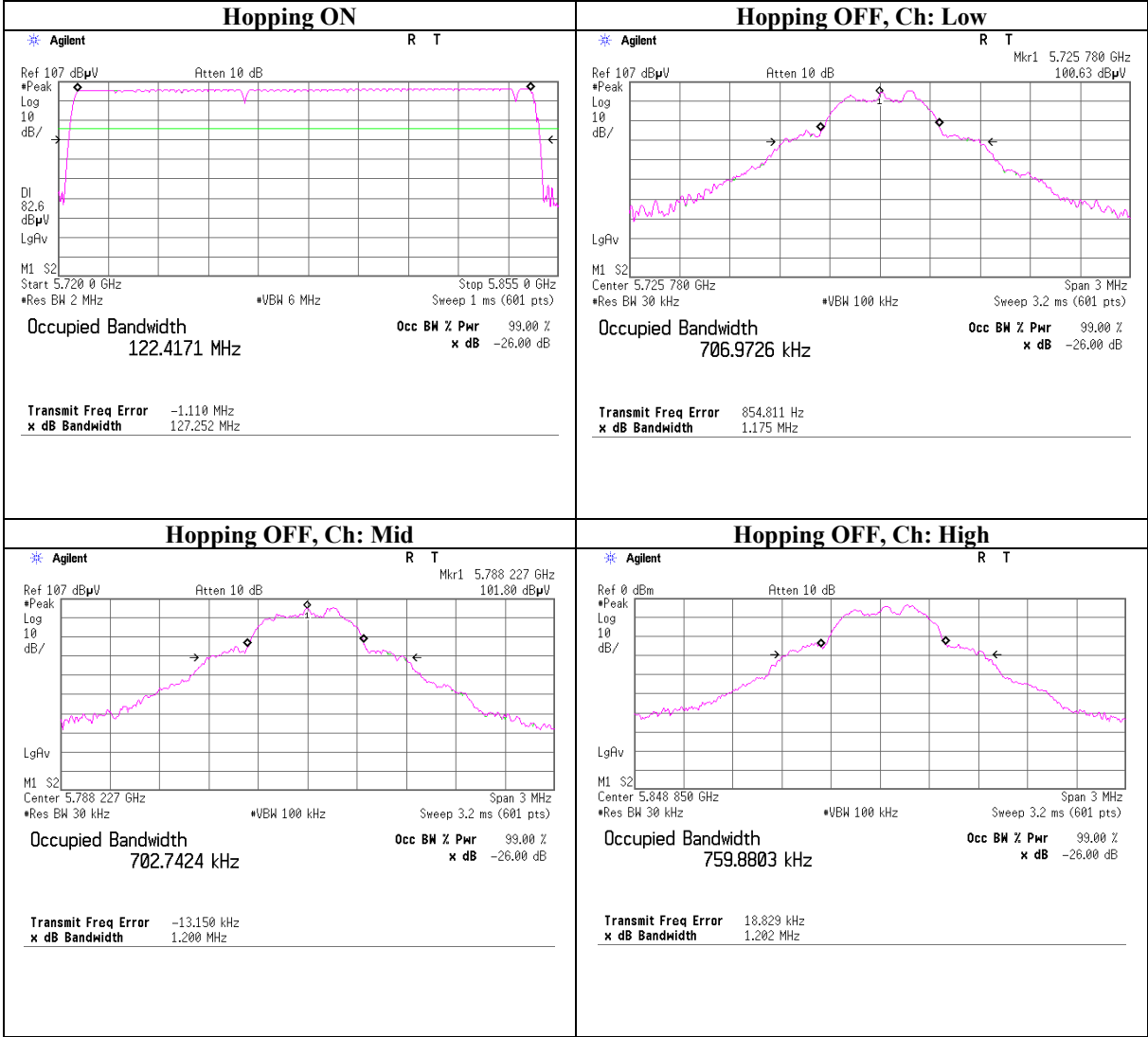
Conducted Spurious Emission

Band Edge compliance





99% Occupied Bandwidth



## APPENDIX 3:Test instruments

### EMI test equipment

| Control No. | Instrument                       | Manufacturer             | Model No                 | Test Item | Calibration Date *<br>Interval(month) |
|-------------|----------------------------------|--------------------------|--------------------------|-----------|---------------------------------------|
| MAEC-03     | Anechoic Chamber                 | TDK                      | Semi Anechoic Chamber 3m | RE        | 2007/03/05 * 12                       |
| MSA-09      | Spectrum Analyzer                | Advantest                | R3273                    | RE        | 2006/12/08 * 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                       |
| MHA-20      | Horn Antenna 1-18GHz             | Schwarzbeck              | BBHA9120D                | RE        | 2007/04/14 * 12                       |
| MOS-12      | Thermo-Hygrometer                | Custom                   | CTH-180                  | RE        | 2006/01/19 * 24                       |
| MSTW-14     | EMI measurement program          | TSJ                      | TEPTO-DV                 | RE/CE     | -                                     |
| MJM-06      | Measure                          | PROMART                  | SEN1955                  | RE        | -                                     |
| MHF-10      | High Pass Filter 7-30GHz         | TOKIMEC                  | TF37NCCB                 | RE        | 2006/06/21 * 12                       |
| MHA-16      | Horn Antenna 15-40GHz            | Schwarzbeck              | BBHA9170                 | RE        | 2007/04/06 * 12                       |
| MSA-04      | Spectrum Analyzer                | Agilent                  | E4448A                   | AT/CE     | 2006/06/02 * 12                       |
| MCC-63      | Microwave Cable 1G-40GHz         | Suhner                   | SUCOFLEX102              | RE        | 2006/09/22 * 12                       |
| MPA-03      | Microwave System Power Amplifier | Agilent                  | 83050A                   | RE        | 2006/05/16 * 12                       |
| MSA-05      | Spectrum Analyzer                | Advantest                | R3273                    | RE/CE     | 2006/05/20 * 12                       |
| MPA-14      | Pre Amplifier                    | SONOMA INSTRUMENT        | 310                      | RE        | 2007/03/12 * 12                       |
| MAEC-04     | Anechoic Chamber                 | TDK                      | Semi Anechoic Chamber 3m | RE/CE     | 2007/03/03 * 12                       |
| MJM-07      | Measure                          | PROMART                  | SEN1955                  | RE/CE     | -                                     |
| MBA-05      | Biconical Antenna                | Schwarzbeck              | BBA9106                  | RE        | 2007/01/19 * 12                       |
| MLA-08      | Logperiodic Antenna              | Schwarzbeck              | UKLP9140-A               | RE        | 2007/01/19 * 12                       |
| MAT-31      | Attenuator(6dB)                  | TME                      | UFA-01                   | RE        | 2007/03/05 * 12                       |
| MCC-50      | Coaxial cable                    | UL Apex                  | -                        | RE/CE     | 2007/03/06 * 12                       |
| MTA-06      | Terminator                       | MCL                      | BTRM-50                  | CE        | 2007/02/01 * 12                       |
| MLS-07      | LISN(AMN)                        | Schwarzbeck              | NSLK8127                 | CE (EUT)  | 2007/02/22 * 12                       |
| MLS-06      | LISN(AMN)                        | Schwarzbeck              | NSLK8127                 | CE (AE)   | 2007/02/22 * 12                       |
| MOS-15      | Thermo-Hygrometer                | Custom                   | CTH-180                  | RE/CE     | 2006/01/19 * 24                       |
| MBM-03      | Barometer                        | Sunoh                    | SBR121                   | RE/CE     | 2006/02/13 * 36                       |
| MHA-21      | Horn Antenna 1-18GHz             | Schwarzbeck              | BBHA9120D                | RE        | 2006/08/17 * 12                       |
| MHA-17      | Horn Antenna 15-40GHz            | Schwarzbeck              | BBHA9170                 | RE        | 2007/04/06 * 12                       |
| MCC-57      | Microwave Cable 1G-26.5GHz       | Suhner                   | SUCOFLEX104              | RE        | 2007/03/30 * 12                       |
| MPA-12      | MicroWave System Amplifier       | Agilent                  | 83017A                   | RE        | 2007/03/12 * 12                       |
| MHF-11      | High Pass Filter 7-30GHz         | TOKIMEC                  | TF37NCCC                 | RE        | 2006/06/21 * 12                       |
| MAT-21      | Attenuator(20dB)(above1GHz)      | HIROSE ELECTRIC CO.,LTD. | AT-120                   | AT        | 2007/01/11 * 12                       |
| MCC-16      | Microwave Cable 1G-26.5GHz       | Suhner                   | SUCOFLEX 104             | AT        | 2007/02/22 * 12                       |
| MSA-03      | Spectrum Analyzer                | Agilent                  | E4448A                   | AT        | 2006/09/13 * 12                       |
| MPM-08      | Power Meter                      | Anritsu                  | ML2495A                  | AT        | 2006/09/20 * 12                       |
| MPSE-11     | Power sensor                     | Anritsu                  | MA2411B                  | AT        | 2006/09/20 * 12                       |
| MOS-14      | Thermo-Hygrometer                | Custom                   | CTH-180                  | AT        | 2006/01/19 * 24                       |
| MAEC-02     | Anechoic Chamber                 | TDK                      | Semi Anechoic Chamber 3m | CE        | 2007/04/02 * 12                       |
| MCC-13      | Coaxial Cable                    | Fujikura/Agilent         | -                        | CE        | 2007/02/27 * 12                       |
| MTR-03      | Test Receiver                    | Rohde & Schwarz          | ESCI                     | CE        | 2007/03/01 * 12                       |

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FCC ID : B3Q8CAE19

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| Control No. | Instrument                 | Manufacturer              | Model No                  | Test Item | Calibration Date *<br>Interval(month) |
|-------------|----------------------------|---------------------------|---------------------------|-----------|---------------------------------------|
| MOS-02      | Digital Humidity Indicator | N.T                       | NT-1800                   | CE        | 2006/11/27 * 12                       |
| MJM-05      | Measure                    | PROMART                   | SEN1955                   | CE        | -                                     |
| MAEC-01     | Anechoic Chamber           | TDK                       | Semi Anechoic Chamber 10m | RE        | 2006/11/01 * 12                       |
| MTR-01      | Test Receiver              | Rohde & Schwarz           | ESI40                     | RE        | 2006/10/14 * 12                       |
| MBA-01      | Biconical Antenna          | Schwarzbeck               | BBA9106                   | RE        | 2006/10/07 * 12                       |
| MLA-09      | Logperiodic Antenna        | Schwarzbeck               | USLP9143B                 | RE        | 2007/01/19 * 12                       |
| MCC-01      | Coaxial Cable 0.1-3000MHz  | Suhner/storm/Agilent/T SJ | -                         | RE        | 2007/02/27 * 12                       |
| MAT-06      | Attenuator(6dB)            | Weinschel Corp            | 2                         | RE        | 2006/12/27 * 12                       |
| MOS-01      | Digital Humidity Indicator | N.T                       | NT-1800                   | RE        | 2006/11/27 * 12                       |
| MJM-01      | Measure                    | KDS                       | ES19-55                   | RE        | -                                     |
| MPA-19      | Pre Amplifier              | MITEQ                     | MLA-10K01-B01-35          | RE        | 2007/02/08 * 12                       |

The expiration date of the calibration is the end of the expired month.

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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

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