# APPENDIX 2: Data of EMI test

## Conducted Emission

**Tx, 11b, 11Mbps, Ch: Low**

DATA OF CONDUCTED EMISSION TEST

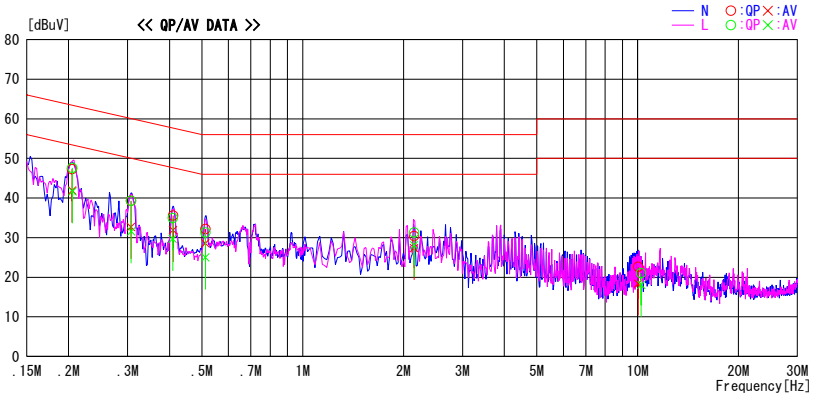
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 65%
Engineer : Kazufumi Nakai

Mode / Remarks : Tx 11b 2412MHz 11Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV




| Frequency | Reading Level | | Corr. | Results | | Limit | | Margin | | Phase |
|---|---|---|---|---|---|---|---|---|---|---|
| | QP | AV | Factor | QP | AV | QP | AV | QP | AV | |
| [MHz] | [dBuV] | [dBuV] | [dB] | [dBuV] | [dBuV] | [dBuV] | [dBuV] | [dB] | [dB] | |
| 0.20477 | 47.0 | 41.6 | 0.3 | 47.3 | 41.9 | 63.4 | 53.4 | 16.1 | 11.5 | N |
| 0.30717 | 39.0 | 32.4 | 0.3 | 39.3 | 32.7 | 60.0 | 50.0 | 20.7 | 17.3 | N |
| 0.41003 | 35.3 | 31.6 | 0.3 | 35.6 | 31.9 | 57.6 | 47.6 | 22.0 | 15.7 | N |
| 0.51233 | 31.9 | 28.3 | 0.3 | 32.2 | 28.6 | 56.0 | 46.0 | 23.8 | 17.4 | N |
| 2.15069 | 29.9 | 26.9 | 0.5 | 30.4 | 27.4 | 56.0 | 46.0 | 25.6 | 18.6 | N |
| 10.03457 | 21.3 | 17.1 | 1.3 | 22.6 | 18.4 | 60.0 | 50.0 | 37.4 | 31.6 | N |
| 0.20515 | 47.3 | 41.4 | 0.3 | 47.6 | 41.7 | 63.4 | 53.4 | 15.8 | 11.7 | L |
| 0.30733 | 39.0 | 31.3 | 0.3 | 39.3 | 31.6 | 60.0 | 50.0 | 20.7 | 18.4 | L |
| 0.40903 | 34.6 | 29.4 | 0.3 | 34.9 | 29.7 | 57.7 | 47.7 | 22.8 | 18.0 | L |
| 0.51258 | 31.0 | 24.7 | 0.3 | 31.3 | 25.0 | 56.0 | 46.0 | 24.7 | 21.0 | L |
| 2.15071 | 30.8 | 27.6 | 0.5 | 31.3 | 28.1 | 56.0 | 46.0 | 24.7 | 17.9 | L |
| 10.24135 | 19.6 | 16.7 | 1.4 | 21.0 | 18.1 | 60.0 | 50.0 | 39.0 | 31.9 | L |

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

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

# Conducted Emission
## Tx, 11b, 11Mbps, Ch: Mid

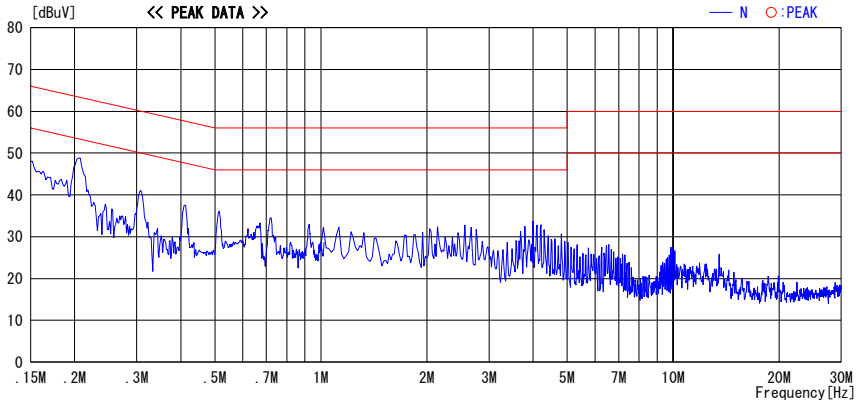
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Report No. | : 28LE0042-HO-02 |
| Kind of EUT | : Digital Still Camera | Power | : AC 120V / 60Hz |
| Model No. | : DSC-G3 | Temp./Humi. | : 22deg.C / 65% |
| Serial No. | : 0000189 | Engineer | : Kazufumi Nakai |

Mode / Remarks : Tx 11b 2437MHz 11Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV



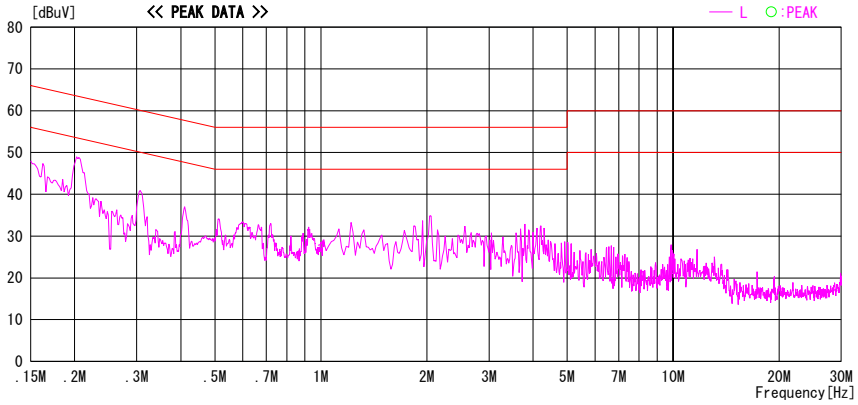




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission
## Tx, 11b, 11Mbps, Ch: High

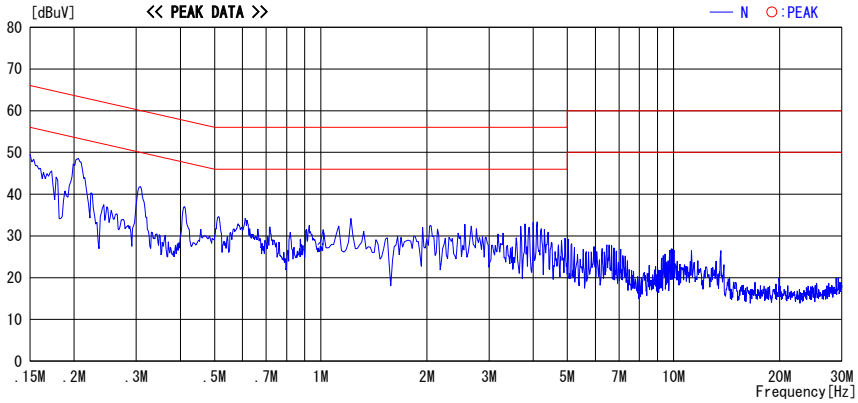
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Report No. | : 28LE0042-HO-02 |
| Kind of EUT | : Digital Still Camera | Power | : AC 120V / 60Hz |
| Model No. | : DSC-G3 | Temp./Humi. | : 22deg.C / 65% |
| Serial No. | : 0000189 | Engineer | : Kazufumi Nakai |

Mode / Remarks : Tx 11b 2462MHz 11Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV



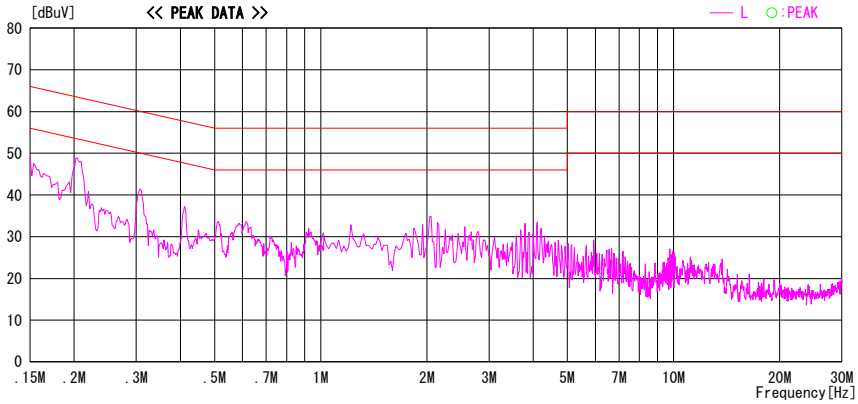




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission
## Tx, 11g, 54Mbps, Ch: Low

DATA OF CONDUCTED EMISSION TEST

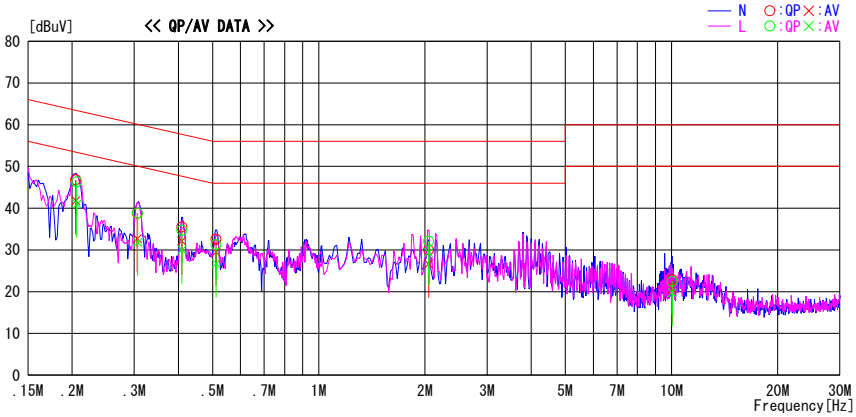
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 65%
Engineer : Kazufumi Nakai

Mode / Remarks : Tx 11g 2412MHz 54Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV




| Frequency | Reading Level | | Corr. | Results | | Limit | | Margin | | Phase |
|---|---|---|---|---|---|---|---|---|---|---|
| | QP | AV | Factor | QP | AV | QP | AV | QP | AV | |
| [MHz] | [dBuV] | [dBuV] | [dB] | [dBuV] | [dBuV] | [dBuV] | [dBuV] | [dB] | [dB] | |
| 0.20491 | 46.5 | 41.5 | 0.3 | 46.8 | 41.8 | 63.4 | 53.4 | 16.6 | 11.6 | N |
| 0.30607 | 38.5 | 32.4 | 0.3 | 38.8 | 32.7 | 60.1 | 50.1 | 21.3 | 17.4 | N |
| 0.40923 | 35.2 | 31.8 | 0.3 | 35.5 | 32.1 | 57.7 | 47.7 | 22.2 | 15.6 | N |
| 0.51180 | 32.3 | 29.2 | 0.3 | 32.6 | 29.5 | 56.0 | 46.0 | 23.4 | 16.5 | N |
| 2.04793 | 29.5 | 26.1 | 0.5 | 30.0 | 26.6 | 56.0 | 46.0 | 26.0 | 19.4 | N |
| 10.03234 | 21.6 | 19.4 | 1.3 | 22.9 | 20.7 | 60.0 | 50.0 | 37.1 | 29.3 | N |
| 0.20613 | 46.0 | 40.7 | 0.3 | 46.3 | 41.0 | 63.4 | 53.4 | 17.1 | 12.4 | L |
| 0.30677 | 38.5 | 31.5 | 0.3 | 38.8 | 31.8 | 60.1 | 50.1 | 21.3 | 18.3 | L |
| 0.40957 | 34.4 | 29.7 | 0.3 | 34.7 | 30.0 | 57.7 | 47.7 | 23.0 | 17.7 | L |
| 0.51187 | 31.0 | 26.4 | 0.3 | 31.3 | 26.7 | 56.0 | 46.0 | 24.7 | 19.3 | L |
| 2.04795 | 31.6 | 28.9 | 0.5 | 32.1 | 29.4 | 56.0 | 46.0 | 23.9 | 16.6 | L |
| 10.03370 | 21.2 | 18.5 | 1.3 | 22.5 | 19.8 | 60.0 | 50.0 | 37.5 | 30.2 | L |

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

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

# Conducted Emission
## Tx, 11g, 54Mbps, Ch: Mid

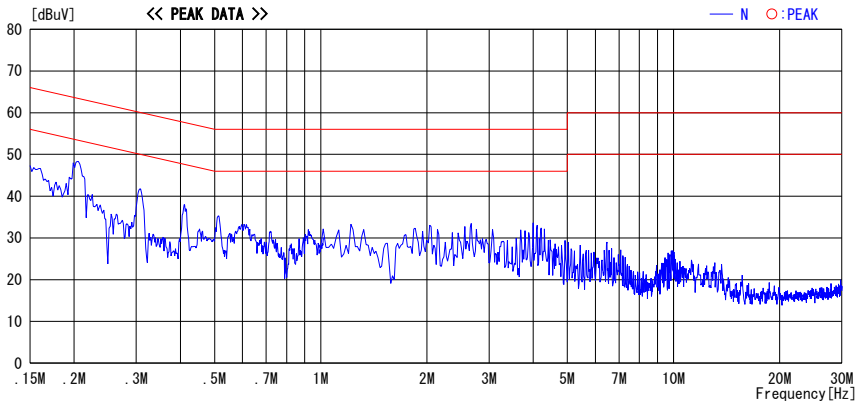
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Report No. | : 28LE0042-HO-02 |
| Kind of EUT | : Digital Still Camera | Power | : AC 120V / 60Hz |
| Model No. | : DSC-G3 | Temp./Humi. | : 22deg.C / 65% |
| Serial No. | : 0000189 | Engineer | : Kazufumi Nakai |

Mode / Remarks : Tx 11g 2437MHz 54Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV



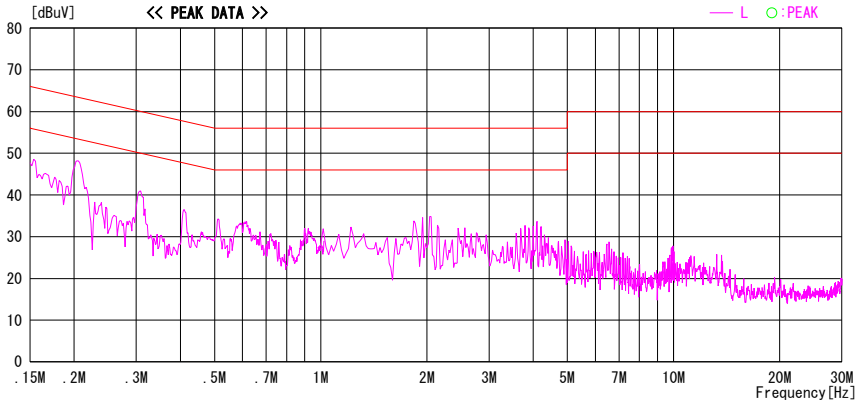




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission
## Tx, 11g, 54Mbps, Ch: High

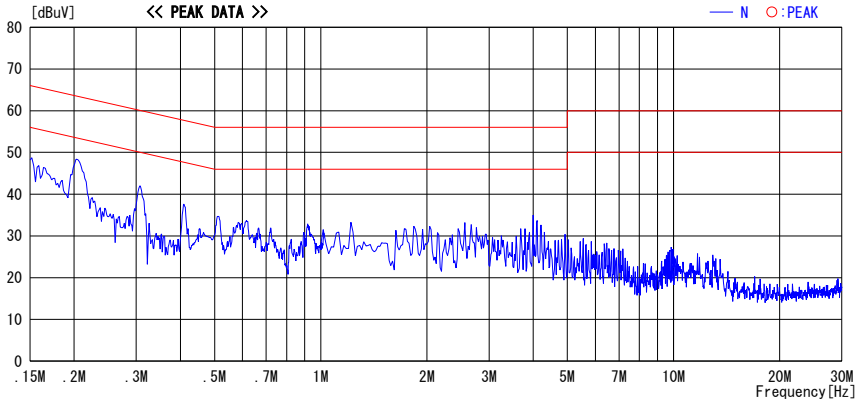
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Report No. | : 28LE0042-HO-02 |
| Kind of EUT | : Digital Still Camera | Power | : AC 120V / 60Hz |
| Model No. | : DSC-G3 | Temp./Humi. | : 22deg.C / 65% |
| Serial No. | : 0000189 | Engineer | : Kazufumi Nakai |

Mode / Remarks : Tx 11g 2462MHz 54Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV



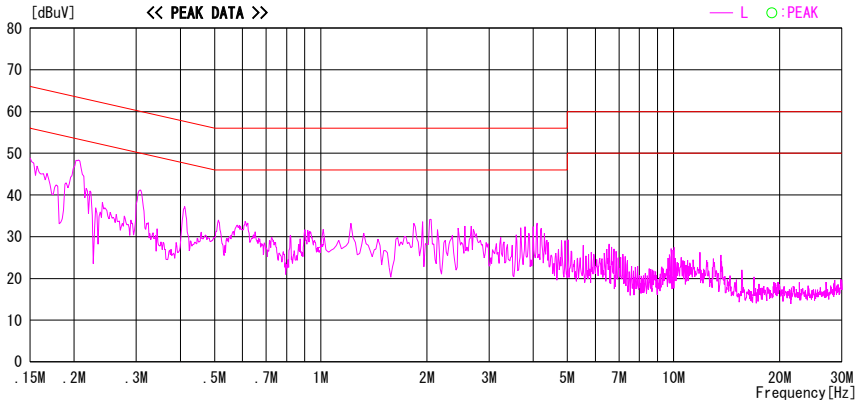




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission

## Rx, 11b/g, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

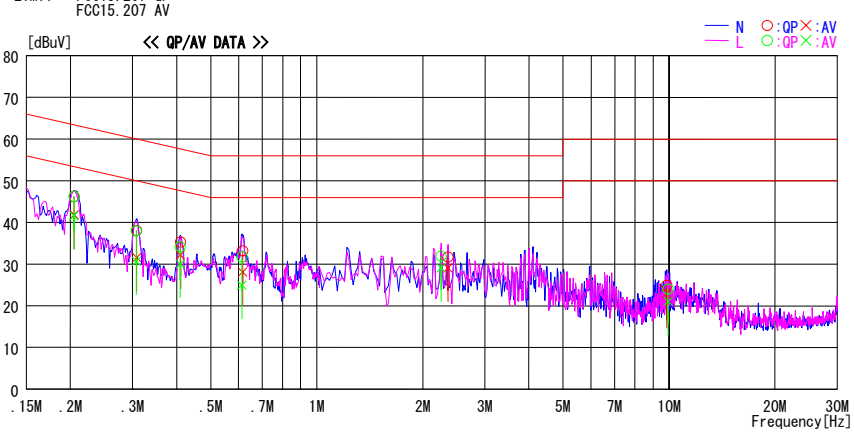
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 65%
Engineer : Kazufumi Nakai

Mode / Remarks : Rx 11b/g 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV




| Frequency | Reading Level | | Corr. | Results | | Limit | | Margin | | Phase |
|---|---|---|---|---|---|---|---|---|---|---|
| | QP | AV | Factor | QP | AV | QP | AV | QP | AV | |
| [MHz] | [dBuV] | [dBuV] | [dB] | [dBuV] | [dBuV] | [dBuV] | [dBuV] | [dB] | [dB] | |
| 0.20491 | 45.9 | 41.5 | 0.3 | 46.2 | 41.8 | 63.4 | 53.4 | 17.2 | 11.6 | N |
| 0.30803 | 37.8 | 31.3 | 0.3 | 38.1 | 31.6 | 60.0 | 50.0 | 21.9 | 18.4 | N |
| 0.40987 | 35.0 | 31.9 | 0.3 | 35.3 | 32.2 | 57.7 | 47.7 | 22.4 | 15.5 | N |
| 0.61521 | 32.8 | 27.7 | 0.4 | 33.2 | 28.1 | 56.0 | 46.0 | 22.8 | 17.9 | N |
| 2.35538 | 31.1 | 28.5 | 0.6 | 31.7 | 29.1 | 56.0 | 46.0 | 24.3 | 16.9 | N |
| 9.83217 | 23.6 | 21.5 | 1.3 | 24.9 | 22.8 | 60.0 | 50.0 | 35.1 | 27.2 | N |
| 0.20455 | 45.9 | 41.3 | 0.3 | 46.2 | 41.6 | 63.4 | 53.4 | 17.2 | 11.8 | L |
| 0.30727 | 37.7 | 30.4 | 0.3 | 38.0 | 30.7 | 60.0 | 50.0 | 22.0 | 19.3 | L |
| 0.40945 | 33.9 | 29.7 | 0.3 | 34.2 | 30.0 | 57.7 | 47.7 | 23.5 | 17.7 | L |
| 0.61249 | 31.4 | 24.5 | 0.4 | 31.8 | 24.9 | 56.0 | 46.0 | 24.2 | 21.1 | L |
| 2.25343 | 31.3 | 28.5 | 0.6 | 31.9 | 29.1 | 56.0 | 46.0 | 24.1 | 16.9 | L |
| 9.93517 | 22.7 | 19.8 | 1.3 | 24.0 | 21.1 | 60.0 | 50.0 | 36.0 | 28.9 | L |

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

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

# 6dB Bandwidth

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

| | | | | |
|---|---|---|---|---|
| Company | : Sony EMCS Corporation | Test Report No. | : | 28LE0042-HO-02 |
| Equipment | : Digital Still Camera | Regulation | : | FCC15.247(a)(2)/RSS-210A8.2(a) |
| Model No. | : DSC-G3 | Test distance | : | - |
| Serial No. | : 0000187 | Date | : | 08/06/2008 |
| Power | : AC120V/60Hz | Temperature | : | 26℃ |
| Mode | : Tx 11b/g | Humidity | : | 55% |
| | | Engineer | : | Takumi Shimada |

**[IEEE802.11b] 11Mbps(worst)**

| Ch | Freq. [MHz] | 6dB Bandwidth [MHz] | Limit [kHz] |
|---|---|---|---|
| Low | 2412.0 | 9.337 | >500 |
| Mid | 2437.0 | 9.319 | >500 |
| High | 2462.0 | 9.329 | >500 |

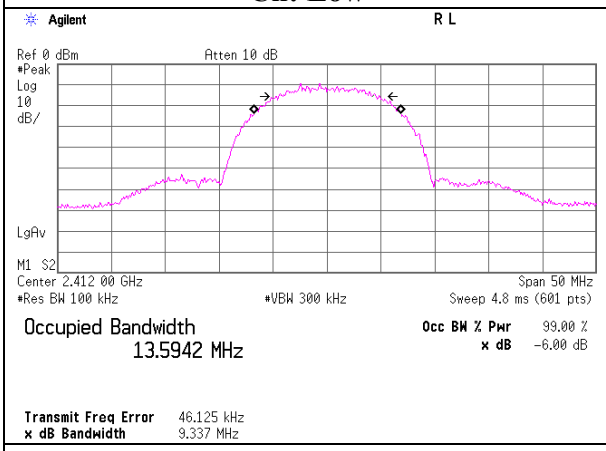
**[IEEE802.11g] 54Mbps(worst)**

| Ch | Freq. [MHz] | 6dB Bandwidth [MHz] | Limit [kHz] |
|---|---|---|---|
| Low | 2412.0 | 16.610 | >500 |
| Mid | 2437.0 | 16.601 | >500 |
| High | 2462.0 | 16.602 | >500 |

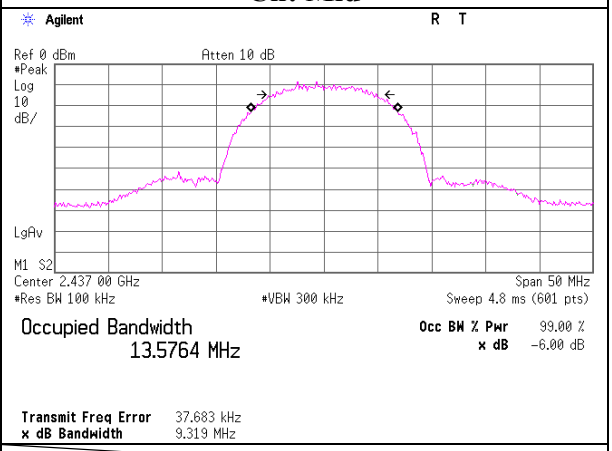
# 6dB Bandwidth

## 11b, 11Mbps

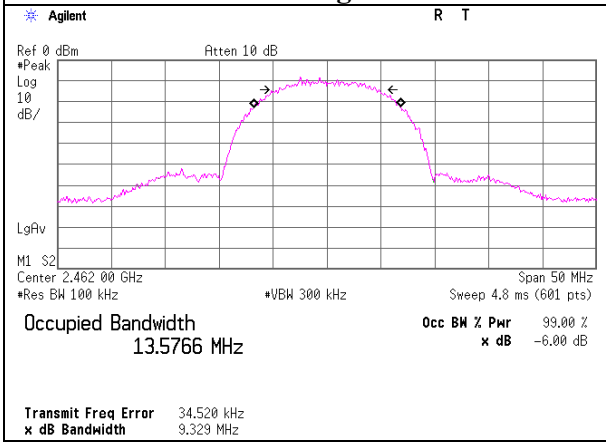
### Ch: Low




### Ch: Mid



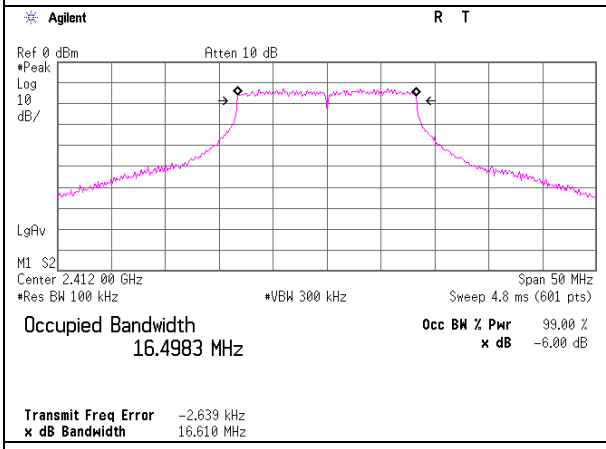

### Ch: High



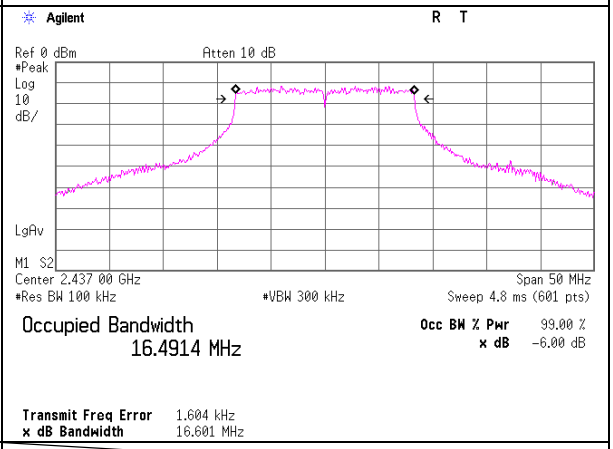
# 6dB Bandwidth

## 11g, 54Mbps

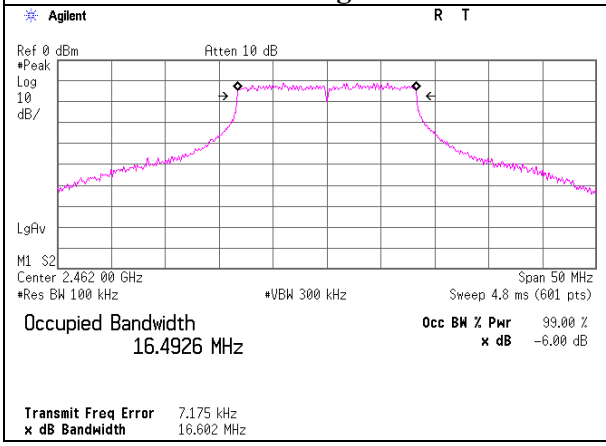
### Ch: Low




### Ch: Mid




### Ch: High



# Maximum Peak Output Power

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

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Test Report No. | : 28LE0042-HO-02 |
| Equipment | : Digital Still Camera | Regulation | : FCC15.247(b)(3)/RSS-210A8.4(4) |
| Model No. | : DSC-G3 | Test distance | : - |
| Serial No. | : 0000187 | Date | : 08/06/2008 |
| Power | : AC120V/60Hz | Temperature | : 26deg.C. |
| Mode | : Tx 11b/g | Humidity | : 55% |
| | | Engineer | : Takumi Shimada |

**[IEEE802.11b] 11Mbps(worst)**

| Ch | Freq. [MHz] | P/M Reading(PK) [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Result [mW] | Limit [dBm] | Limit [mW] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|
| Low | 2412.0 | 3.25 | 0.60 | 9.98 | 13.83 | 24.15 | 30.00 | 1000 | 16.17 |
| Mid | 2437.0 | 4.01 | 0.60 | 9.98 | 14.59 | 28.77 | 30.00 | 1000 | 15.41 |
| High | 2462.0 | 4.48 | 0.60 | 9.98 | 15.06 | 32.06 | 30.00 | 1000 | 14.94 |

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.

**[IEEE802.11g] 54Mbps(worst)**

| Ch | Freq. [MHz] | P/M Reading(PK) [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Result [mW] | Limit [dBm] | Limit [mW] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|
| Low | 2412.0 | 9.64 | 0.60 | 9.98 | 20.22 | 105.20 | 30.00 | 1000 | 9.78 |
| Mid | 2437.0 | 9.91 | 0.60 | 9.98 | 20.49 | 111.94 | 30.00 | 1000 | 9.51 |
| High | 2462.0 | 10.08 | 0.60 | 9.98 | 20.66 | 116.41 | 30.00 | 1000 | 9.34 |

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.

# Maximum Peak Output Power
## Worst data rate (Conducted)

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

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Test Report No. | : 28LE0042-HO-02 |
| Equipment | : Digital Still Camera | Regulation | : FCC15.247(b)(3)/RSS-210A8.4(4) |
| Model No. | : DSC-G3 | Test distance | : - |
| Serial No. | : 0000187 | Date | : 08/06/2008 |
| Power | : AC120V/60Hz | Temperature | : 26deg.C. |
| Mode | : Tx 11b/g | Humidity | : 55% |
| | | Engineer | : Takumi Shimada |

**[IEEE802.11b]**

| Rate [Mbps] | Freq. [MHz] | P/M Reading(PK) [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Result [mW] | Limit [dBm] | Limit [mW] | Margin [dB] | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 | 2437.0 | 3.96 | 0.60 | 9.98 | 14.54 | 28.44 | 30.00 | 1000 | 15.46 | |
| 2.0 | 2437.0 | 3.56 | 0.60 | 9.98 | 14.14 | 25.94 | 30.00 | 1000 | 15.86 | |
| 5.5 | 2437.0 | 3.43 | 0.60 | 9.98 | 14.01 | 25.18 | 30.00 | 1000 | 15.99 | |
| 11.0 | 2437.0 | 4.01 | 0.60 | 9.98 | 14.59 | 28.77 | 30.00 | 1000 | 15.41 | Worst |

**[IEEE802.11g]**

| Rate [Mbps] | Freq. [MHz] | P/M Reading(PK) [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Result [mW] | Limit [dBm] | Limit [mW] | Margin [dB] | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 6.0 | 2437.0 | 9.15 | 0.60 | 9.98 | 19.73 | 93.97 | 30.00 | 1000 | 10.27 | |
| 9.0 | 2437.0 | 9.51 | 0.60 | 9.98 | 20.09 | 102.09 | 30.00 | 1000 | 9.91 | |
| 12.0 | 2437.0 | 9.54 | 0.60 | 9.98 | 20.12 | 102.80 | 30.00 | 1000 | 9.88 | |
| 18.0 | 2437.0 | 9.51 | 0.60 | 9.98 | 20.09 | 102.09 | 30.00 | 1000 | 9.91 | |
| 24.0 | 2437.0 | 9.44 | 0.60 | 9.98 | 20.02 | 100.46 | 30.00 | 1000 | 9.98 | |
| 36.0 | 2437.0 | 9.43 | 0.60 | 9.98 | 20.01 | 100.23 | 30.00 | 1000 | 9.99 | |
| 48.0 | 2437.0 | 9.45 | 0.60 | 9.98 | 20.03 | 100.69 | 30.00 | 1000 | 9.97 | |
| 54.0 | 2437.0 | 9.91 | 0.60 | 9.98 | 20.49 | 111.94 | 30.00 | 1000 | 9.51 | Worst |

Sample Calculation:
Result = Reading + Cable Loss (supplied by customer) + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

# Radiated Spurious Emission (below 1GHz)

## Tx, 11b, 11Mbps, Ch: Low

## DATA OF RADIATED EMISSION TEST

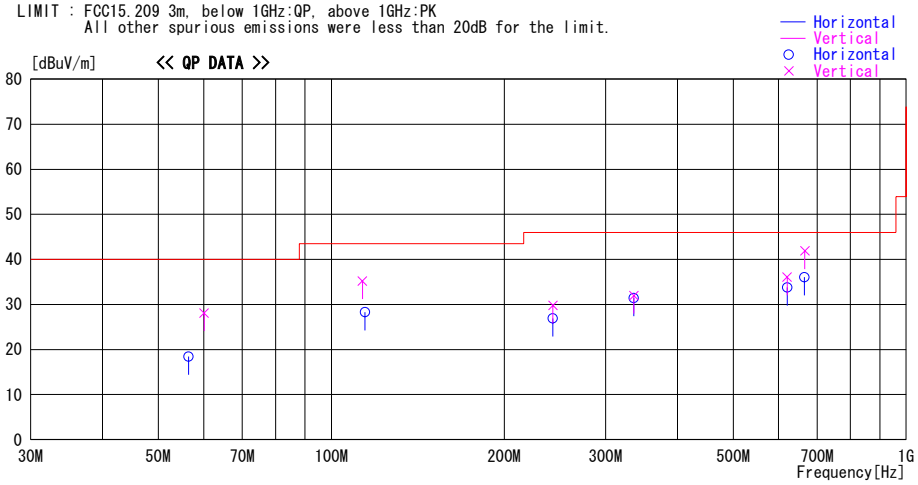
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 73%
Engineer : Takumi Shimada

Mode / Remarks : Tx 11b 2412MHz 11Mbps Worst Hor:Z-axis Ver:Z-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.453 | 31.3 | QP | 8.9 | -21.7 | 18.5 | 241 | 400 | Hori. | 40.0 | 21.5 | |
| 60.106 | 41.5 | QP | 8.2 | -21.6 | 28.1 | 25 | 100 | Vert. | 40.0 | 11.9 | |
| 113.261 | 44.9 | QP | 11.2 | -20.9 | 35.2 | 73 | 100 | Vert. | 43.5 | 8.3 | |
| 114.525 | 37.9 | QP | 11.3 | -20.9 | 28.3 | 32 | 307 | Hori. | 43.5 | 15.2 | |
| 243.010 | 29.2 | QP | 17.0 | -19.3 | 26.9 | 359 | 282 | Hori. | 46.0 | 19.1 | |
| 243.006 | 32.1 | QP | 17.0 | -19.3 | 29.8 | 20 | 100 | Vert. | 46.0 | 16.2 | |
| 336.006 | 34.9 | QP | 15.6 | -19.1 | 31.4 | 39 | 100 | Hori. | 46.0 | 14.6 | |
| 335.997 | 35.5 | QP | 15.6 | -19.1 | 32.0 | 21 | 100 | Vert. | 46.0 | 14.0 | |
| 621.005 | 32.9 | QP | 19.6 | -18.7 | 33.8 | 346 | 128 | Hori. | 46.0 | 12.2 | |
| 620.998 | 35.2 | QP | 19.6 | -18.7 | 36.1 | 325 | 100 | Vert. | 46.0 | 9.9 | |
| 665.668 | 34.3 | QP | 20.2 | -18.4 | 36.1 | 90 | 163 | Hori. | 46.0 | 9.9 | |
| 666.334 | 40.0 | QP | 20.3 | -18.4 | 41.9 | 325 | 100 | Vert. | 46.0 | 4.1 | |

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 test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## Tx, 11b, 11Mbps, Ch: Mid

## DATA OF RADIATED EMISSION TEST

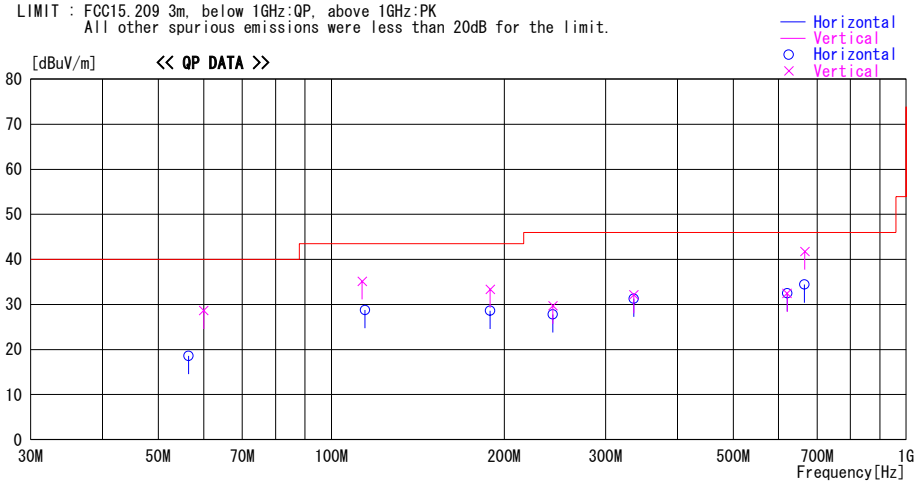
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 73%
Engineer : Takumi Shimada

Mode / Remarks : Tx 11b 2437MHz 11Mbps Worst Hor:Z-axis Ver:Z-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.448 | 31.4 | QP | 8.9 | -21.7 | 18.6 | 245 | 400 | Hori. | 40.0 | 21.4 | |
| 60.023 | 42.0 | QP | 8.2 | -21.6 | 28.6 | 30 | 100 | Vert. | 40.0 | 11.4 | |
| 113.182 | 44.8 | QP | 11.2 | -20.9 | 35.1 | 80 | 100 | Vert. | 43.5 | 8.4 | |
| 114.535 | 38.4 | QP | 11.3 | -20.9 | 28.8 | 40 | 313 | Hori. | 43.5 | 14.7 | |
| 189.001 | 32.1 | QP | 16.4 | -19.9 | 28.6 | 180 | 294 | Hori. | 43.5 | 14.9 | |
| 189.008 | 36.8 | QP | 16.4 | -19.9 | 33.3 | 359 | 100 | Vert. | 43.5 | 10.2 | |
| 243.001 | 32.0 | QP | 17.0 | -19.3 | 29.7 | 24 | 100 | Vert. | 46.0 | 16.3 | |
| 243.009 | 30.1 | QP | 17.0 | -19.3 | 27.8 | 359 | 284 | Hori. | 46.0 | 18.2 | |
| 335.997 | 35.6 | QP | 15.6 | -19.1 | 32.1 | 14 | 100 | Vert. | 46.0 | 13.9 | |
| 336.006 | 34.8 | QP | 15.6 | -19.1 | 31.3 | 48 | 100 | Hori. | 46.0 | 14.8 | |
| 621.002 | 31.6 | QP | 19.6 | -18.7 | 32.5 | 322 | 100 | Vert. | 46.0 | 13.6 | |
| 621.005 | 31.6 | QP | 19.6 | -18.7 | 32.5 | 334 | 123 | Hori. | 46.0 | 13.5 | |
| 665.668 | 32.7 | QP | 20.2 | -18.4 | 34.5 | 72 | 157 | Hori. | 46.0 | 11.5 | |
| 666.334 | 39.9 | QP | 20.3 | -18.4 | 41.8 | 359 | 100 | Vert. | 46.0 | 4.2 | |

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 test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## Tx, 11b, 11Mbps, Ch: High

## DATA OF RADIATED EMISSION TEST

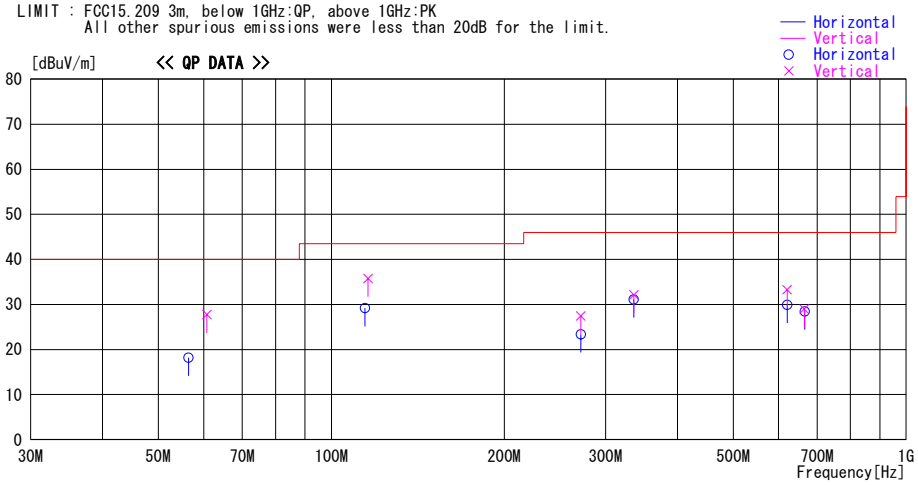
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 73%
Engineer : Takumi Shimada

Mode / Remarks : Tx 11b 2462MHz 11Mbps Worst Hor:Z-axis Ver:Z-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.452 | 31.0 | QP | 8.9 | -21.7 | 18.2 | 256 | 400 | Hori. | 40.0 | 21.8 | |
| 60.765 | 41.3 | QP | 8.1 | -21.6 | 27.8 | 65 | 100 | Vert. | 40.0 | 12.2 | |
| 114.532 | 38.8 | QP | 11.3 | -20.9 | 29.2 | 42 | 308 | Hori. | 43.5 | 14.3 | |
| 115.849 | 45.3 | QP | 11.4 | -20.9 | 35.8 | 100 | 100 | Vert. | 43.5 | 7.8 | |
| 271.583 | 28.1 | QP | 18.4 | -19.1 | 27.4 | 33 | 100 | Vert. | 46.0 | 18.6 | |
| 271.582 | 24.1 | QP | 18.4 | -19.1 | 23.4 | 223 | 300 | Hori. | 46.0 | 22.6 | |
| 335.991 | 35.7 | QP | 15.6 | -19.1 | 32.2 | 180 | 100 | Vert. | 46.0 | 13.8 | |
| 336.004 | 34.6 | QP | 15.6 | -19.1 | 31.1 | 61 | 100 | Hori. | 46.0 | 14.9 | |
| 621.003 | 32.4 | QP | 19.6 | -18.7 | 33.3 | 322 | 100 | Vert. | 46.0 | 12.8 | |
| 621.008 | 29.0 | QP | 19.6 | -18.7 | 29.9 | 311 | 142 | Hori. | 46.0 | 16.1 | |
| 665.880 | 26.6 | QP | 20.3 | -18.4 | 28.5 | 158 | 138 | Hori. | 46.0 | 17.5 | |
| 665.157 | 27.2 | QP | 20.2 | -18.4 | 29.0 | 359 | 100 | Vert. | 46.0 | 17.0 | |

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 test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)
## Tx, 11g, 54Mbps, Ch: Low

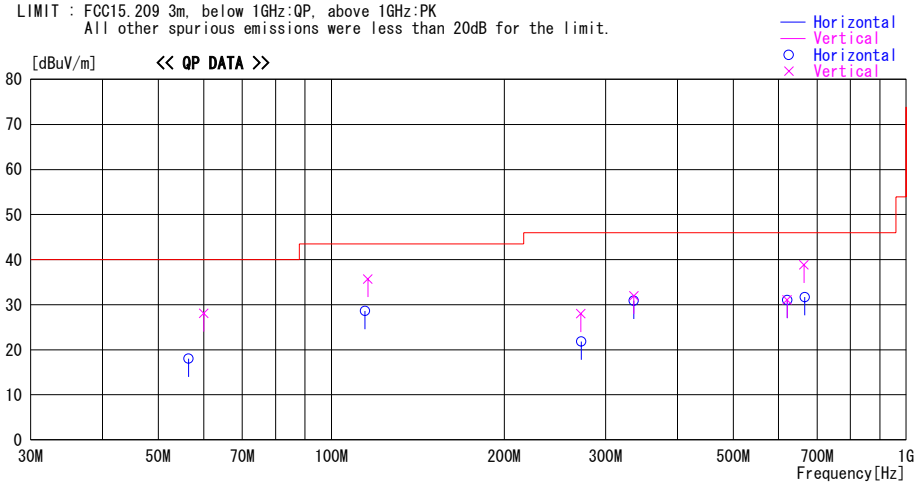
## DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Report No. | : 28LE0042-HO-02 |
| Kind of EUT | : Digital Still Camera | Power | : AC 120V / 60Hz |
| Model No. | : DSC-G3 | Temp./Humi. | : 22deg.C / 73% |
| Serial No. | : 0000189 | Engineer | : Takumi Shimada |

Mode / Remarks : Tx 11g 2412MHz 54Mbps Worst Hor:Z-axis Ver:Z-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.445 | 30.8 | QP | 8.9 | -21.7 | 18.0 | 263 | 400 | Hori. | 40.0 | 22.0 | |
| 60.023 | 41.5 | QP | 8.2 | -21.6 | 28.1 | 30 | 100 | Vert. | 40.0 | 11.9 | |
| 114.524 | 38.2 | QP | 11.3 | -20.9 | 28.6 | 58 | 308 | Hori. | 43.5 | 14.9 | |
| 115.769 | 45.2 | QP | 11.4 | -20.9 | 35.7 | 100 | 100 | Vert. | 43.5 | 7.8 | |
| 271.583 | 28.7 | QP | 18.4 | -19.1 | 28.0 | 16 | 100 | Vert. | 46.0 | 18.0 | |
| 272.051 | 22.6 | QP | 18.4 | -19.1 | 21.9 | 48 | 400 | Hori. | 46.0 | 24.1 | |
| 336.006 | 35.5 | QP | 15.6 | -19.1 | 32.0 | 186 | 100 | Vert. | 46.0 | 14.0 | |
| 336.001 | 34.4 | QP | 15.6 | -19.1 | 30.9 | 66 | 100 | Hori. | 46.0 | 15.1 | |
| 621.011 | 30.2 | QP | 19.6 | -18.7 | 31.1 | 315 | 100 | Vert. | 46.0 | 14.9 | |
| 620.996 | 30.1 | QP | 19.6 | -18.7 | 31.0 | 337 | 129 | Hori. | 46.0 | 15.0 | |
| 665.881 | 29.8 | QP | 20.3 | -18.4 | 31.7 | 53 | 115 | Hori. | 46.0 | 14.4 | |
| 663.949 | 37.1 | QP | 20.2 | -18.4 | 38.9 | 322 | 100 | Vert. | 46.0 | 7.2 | |

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 test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## Tx, 11g, 54Mbps, Ch: Mid

## DATA OF RADIATED EMISSION TEST

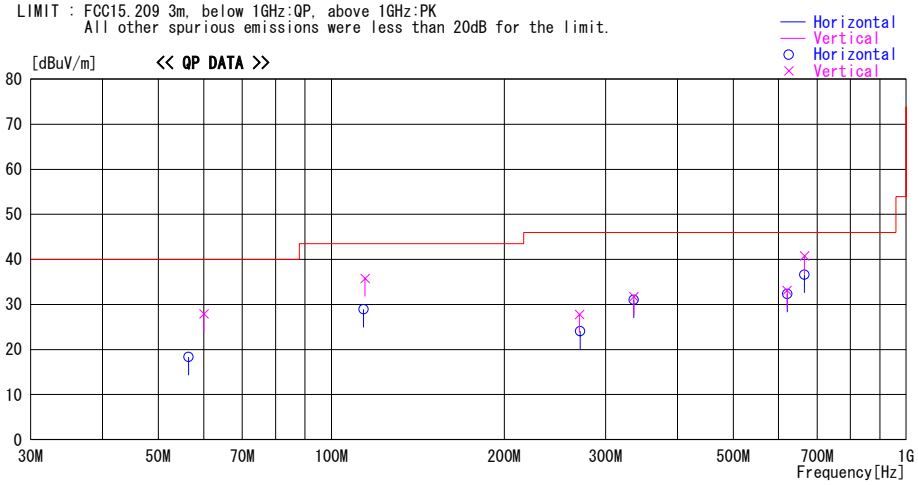
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 73%
Engineer : Takumi Shimada

Mode / Remarks : Tx 11g 2437MHz 54Mbps Worst Hor:Z-axis Ver:Z-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.441 | 31.2 | QP | 8.9 | -21.7 | 18.4 | 241 | 400 | Hori. | 40.0 | 21.6 | |
| 60.060 | 41.3 | QP | 8.2 | -21.6 | 27.9 | 84 | 100 | Vert. | 40.0 | 12.1 | |
| 113.772 | 38.6 | QP | 11.3 | -20.9 | 29.0 | 27 | 278 | Hori. | 43.5 | 14.5 | |
| 114.504 | 45.4 | QP | 11.3 | -20.9 | 35.8 | 97 | 100 | Vert. | 43.5 | 7.7 | |
| 270.250 | 28.6 | QP | 18.3 | -19.1 | 27.8 | 27 | 100 | Vert. | 46.0 | 18.2 | |
| 271.033 | 24.8 | QP | 18.4 | -19.1 | 24.1 | 317 | 400 | Hori. | 46.0 | 21.9 | |
| 335.999 | 35.2 | QP | 15.6 | -19.1 | 31.7 | 190 | 100 | Vert. | 46.0 | 14.3 | |
| 335.997 | 34.6 | QP | 15.6 | -19.1 | 31.1 | 47 | 100 | Hori. | 46.0 | 14.9 | |
| 621.005 | 32.2 | QP | 19.6 | -18.7 | 33.1 | 324 | 100 | Vert. | 46.0 | 12.9 | |
| 620.999 | 31.4 | QP | 19.6 | -18.7 | 32.3 | 338 | 130 | Hori. | 46.0 | 13.7 | |
| 665.509 | 34.8 | QP | 20.2 | -18.4 | 36.6 | 79 | 162 | Hori. | 46.0 | 9.4 | |
| 665.509 | 39.0 | QP | 20.2 | -18.4 | 40.8 | 350 | 100 | Vert. | 46.0 | 5.2 | |

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 test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## Tx, 11g, 54Mbps, Ch: High

## DATA OF RADIATED EMISSION TEST

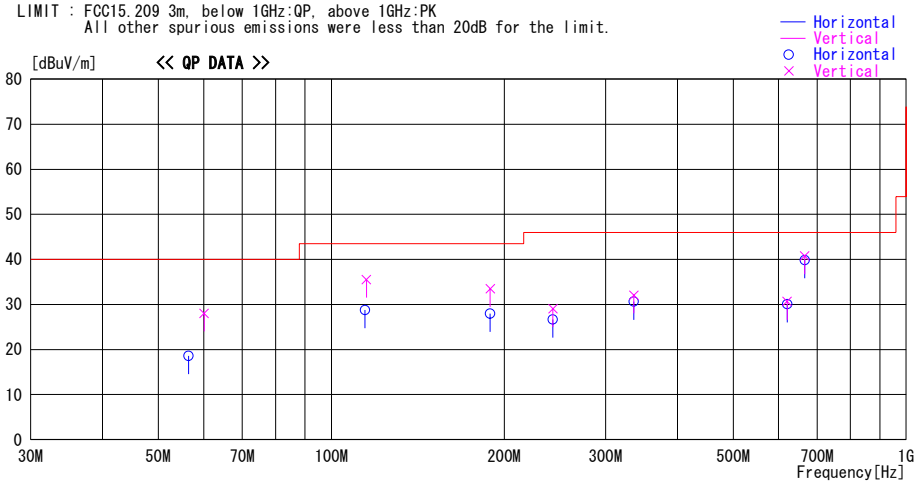
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

Company : Sony EMCS Corporation
Kind of EUT : Digital Still Camera
Model No. : DSC-G3
Serial No. : 0000189

Report No. : 28LE0042-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 73%
Engineer : Takumi Shimada

Mode / Remarks : Tx 11g 2462MHz 54Mbps Worst Hor:Z-axis Ver:Z-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.445 | 31.4 | QP | 8.9 | -21.7 | 18.6 | 242 | 400 | Hori. | 40.0 | 21.4 | |
| 60.085 | 41.4 | QP | 8.2 | -21.6 | 28.0 | 86 | 100 | Vert. | 40.0 | 12.0 | |
| 114.458 | 38.4 | QP | 11.3 | -20.9 | 28.8 | 60 | 267 | Hori. | 43.5 | 14.8 | |
| 189.000 | 31.5 | QP | 16.4 | -19.9 | 28.0 | 186 | 303 | Hori. | 43.5 | 15.5 | |
| 115.075 | 45.1 | QP | 11.4 | -20.9 | 35.6 | 102 | 100 | Vert. | 43.5 | 8.0 | |
| 189.004 | 37.0 | QP | 16.4 | -19.9 | 33.5 | 359 | 100 | Vert. | 43.5 | 10.0 | |
| 243.003 | 29.0 | QP | 17.0 | -19.3 | 26.7 | 176 | 322 | Hori. | 46.0 | 19.3 | |
| 243.007 | 31.4 | QP | 17.0 | -19.3 | 29.1 | 359 | 100 | Vert. | 46.0 | 16.9 | |
| 336.004 | 34.1 | QP | 15.6 | -19.1 | 30.6 | 35 | 100 | Hori. | 46.0 | 15.4 | |
| 335.996 | 35.6 | QP | 15.6 | -19.1 | 32.1 | 180 | 100 | Vert. | 46.0 | 13.9 | |
| 620.991 | 29.2 | QP | 19.6 | -18.7 | 30.1 | 317 | 126 | Hori. | 46.0 | 15.9 | |
| 620.997 | 29.8 | QP | 19.6 | -18.7 | 30.7 | 307 | 100 | Vert. | 46.0 | 15.3 | |
| 665.871 | 38.0 | QP | 20.3 | -18.4 | 39.9 | 75 | 157 | Hori. | 46.0 | 6.1 | |
| 665.871 | 38.9 | QP | 20.3 | -18.4 | 40.8 | 350 | 100 | Vert. | 46.0 | 5.2 | |

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 test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission

## Rx, 11b/g, Ch: Mid

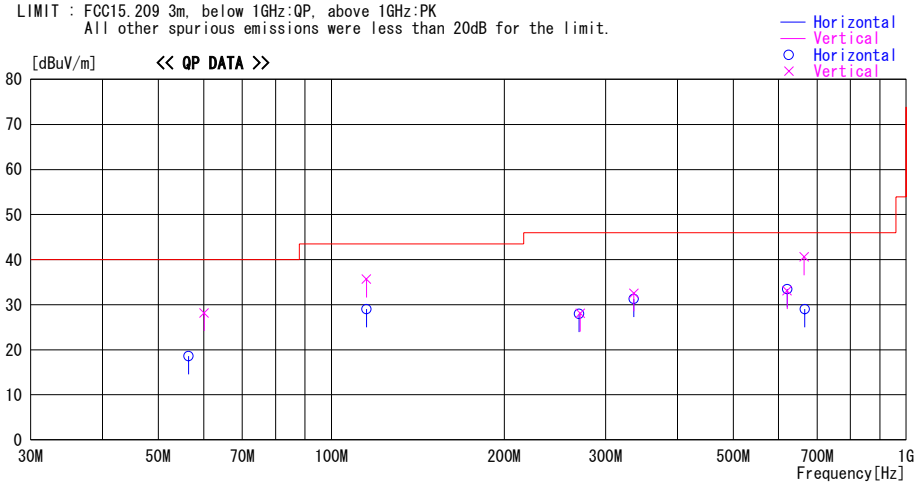
## DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/08/08

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Report No. | : 28LE0042-HO-02 |
| Kind of EUT | : Digital Still Camera | Power | : AC 120V / 60Hz |
| Model No. | : DSC-G3 | Temp./Humi. | : 22deg.C / 73% |
| Serial No. | : 0000189 | Engineer | : Takumi Shimada |

Mode / Remarks : Rx 11b/g 2437MHz 54Mbps Worst Hor:Z-axis Ver:Z-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.450 | 31.4 | QP | 8.9 | -21.7 | 18.6 | 239 | 400 | Hori. | 40.0 | 21.4 | |
| 60.080 | 41.6 | QP | 8.2 | -21.6 | 28.2 | 89 | 100 | Vert. | 40.0 | 11.8 | |
| 115.092 | 38.5 | QP | 11.4 | -20.9 | 29.0 | 58 | 268 | Hori. | 43.5 | 14.5 | |
| 115.052 | 45.2 | QP | 11.4 | -20.9 | 35.7 | 99 | 100 | Vert. | 43.5 | 7.8 | |
| 269.958 | 28.8 | QP | 18.3 | -19.1 | 28.0 | 257 | 150 | Hori. | 46.0 | 18.0 | |
| 271.005 | 28.8 | QP | 18.4 | -19.1 | 28.1 | 10 | 100 | Vert. | 46.0 | 17.9 | |
| 335.995 | 36.1 | QP | 15.6 | -19.1 | 32.6 | 176 | 100 | Vert. | 46.0 | 13.4 | |
| 335.990 | 34.8 | QP | 15.6 | -19.1 | 31.3 | 51 | 100 | Hori. | 46.0 | 14.7 | |
| 621.003 | 32.5 | QP | 19.6 | -18.7 | 33.4 | 323 | 121 | Hori. | 46.0 | 12.6 | |
| 621.005 | 32.2 | QP | 19.6 | -18.7 | 33.1 | 327 | 100 | Vert. | 46.0 | 12.9 | |
| 666.120 | 27.1 | QP | 20.3 | -18.4 | 29.0 | 74 | 155 | Hori. | 46.0 | 17.0 | |
| 664.470 | 38.8 | QP | 20.2 | -18.4 | 40.6 | 350 | 100 | Vert. | 46.0 | 5.4 | |

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 test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz)

## Tx, 11b, 11Mbps, Ch: Low

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

| | | | |
|---|---|---|---|
| Company | Sony EMCS Corporation | Regulation | FCC15.247(d) / RSS-210 A8.5 |
| Equipment | Digital Still Camera | Test Distance | 3m (1G-10GHz) / 1m (10GHz-26.5GHz) |
| Model | DSC-G3 | Date | 08/07/2008 |
| S/N | 0000189 | Temperature | 24deg.C. |
| Power | AC 120V / 60Hz | Humidity | 73% |
| Mode | Tx, 11b, 2412MHz, 11Mbps | Engineer | Kazufumi Nakai |
| Position | H: Y-axis, V: Z-axis | | (1GHz-26.5GHz) |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit PK [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2390.00 | 43.8 | 42.0 | 26.8 | 32.5 | 2.6 | 0.0 | 40.7 | 38.9 | 73.9 | 33.2 | 35.0 |
| 2 | 2400.00 | 53.4 | 51.1 | 26.8 | 32.5 | 2.6 | 0.0 | 50.3 | 48.0 | 73.9 | 23.6 | 25.9 |
| 3 | 4824.00 | 39.7 | 40.0 | 31.2 | 31.4 | 4.1 | 0.7 | 44.3 | 44.6 | 73.9 | 29.6 | 29.3 |
| 4 | 7236.00 | 41.7 | 42.5 | 35.5 | 31.0 | 4.4 | 0.6 | 51.2 | 52.0 | 73.9 | 22.7 | 21.9 |
| 5 | 9648.00 | 41.9 | 41.6 | 38.6 | 31.4 | 5.2 | 0.9 | 55.2 | 54.9 | 73.9 | 18.7 | 19.0 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 6 | 12060.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 7 | 14472.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 8 | 16884.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 9 | 19296.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 10 | 21708.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 11 | 24120.00 | 46.3 | 46.1 | 39.9 | 30.0 | 7.8 | 0.0 | 54.5 | 54.3 | 73.9 | 19.4 | 19.6 |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit AV [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2390.00 | 31.4 | 30.7 | 26.8 | 32.5 | 2.6 | 0.0 | 28.3 | 27.6 | 53.9 | 25.6 | 26.3 |
| 2 | 2400.00 | 43.4 | 41.0 | 26.8 | 32.5 | 2.6 | 0.0 | 40.3 | 37.9 | 53.9 | 13.6 | 16.0 |
| 3 | 4824.00 | 29.5 | 29.8 | 31.2 | 31.4 | 4.1 | 0.7 | 34.1 | 34.4 | 53.9 | 19.8 | 19.5 |
| 4 | 7236.00 | 29.1 | 29.1 | 35.5 | 31.0 | 4.4 | 0.6 | 38.6 | 38.6 | 53.9 | 15.3 | 15.3 |
| 5 | 9648.00 | 29.2 | 29.2 | 38.6 | 31.4 | 5.2 | 0.9 | 42.5 | 42.5 | 53.9 | 11.4 | 11.4 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 6 | 12060.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 7 | 14472.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 8 | 16884.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 9 | 19296.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 10 | 21708.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 11 | 24120.00 | 34.0 | 34.0 | 39.9 | 30.0 | 7.8 | 0.0 | 42.2 | 42.2 | 53.9 | 11.7 | 11.7 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) = 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

# Radiated Spurious Emission

## Tx, 11b, 11Mbps, Ch: Mid

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

| | | | |
|---|---|---|---|
| Company | Sony EMCS Corporation | Regulation | FCC15.247(d) / RSS-210 A8.5 |
| Equipment | Digital Still Camera | Test Distance | 3m (1G-10GHz) / 1m (10GHz-26.5GHz) |
| Model | DSC-G3 | Date | 08/07/2008 |
| S/N | 0000189 | Temperature | 24deg.C. |
| Power | AC 120V / 60Hz | Humidity | 73% |
| Mode | Tx, 11b, 2437MHz, 11Mbps | Engineer | Kazufumi Nakai |
| Position | H: Y-axis, V: Z-axis | | (1GHz-26.5GHz) |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit PK [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 4874.00 | 41.1 | 41.8 | 31.3 | 31.4 | 4.1 | 0.7 | 45.8 | 46.5 | 73.9 | 28.1 | 27.4 |
| 2 | 7311.00 | 41.9 | 41.1 | 35.7 | 31.0 | 4.5 | 0.6 | 51.7 | 50.9 | 73.9 | 22.2 | 23.0 |
| 3 | 9748.00 | 41.3 | 40.4 | 38.7 | 31.4 | 5.2 | 0.9 | 54.7 | 53.8 | 73.9 | 19.2 | 20.1 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 4 | 12185.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 5 | 14622.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 6 | 17059.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 7 | 19496.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 8 | 21933.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 9 | 24370.00 | 45.2 | 45.3 | 40.1 | 30.0 | 7.9 | 0.0 | 53.7 | 53.8 | 73.9 | 20.2 | 20.1 |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit AV [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 4874.00 | 28.5 | 30.4 | 31.3 | 31.4 | 4.1 | 0.7 | 33.2 | 35.1 | 53.9 | 20.7 | 18.8 |
| 2 | 7311.00 | 29.3 | 29.4 | 35.7 | 31.0 | 4.5 | 0.6 | 39.1 | 39.2 | 53.9 | 14.8 | 14.7 |
| 3 | 9748.00 | 28.7 | 28.7 | 38.7 | 31.4 | 5.2 | 0.9 | 42.1 | 42.1 | 53.9 | 11.8 | 11.8 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 4 | 12185.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 5 | 14622.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 6 | 17059.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 7 | 19496.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 8 | 21933.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 9 | 24370.00 | 33.1 | 33.1 | 40.1 | 30.0 | 7.9 | 0.0 | 41.6 | 41.6 | 53.9 | 12.3 | 12.3 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) = 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

# Radiated Spurious Emission

## Tx, 11b, 11Mbps, Ch: High

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

| | | | |
|---|---|---|---|
| Company | Sony EMCS Corporation | Regulation | FCC15.247(d) / RSS-210 A8.5 |
| Equipment | Digital Still Camera | Test Distance | 3m (1G-10GHz) / 1m (10GHz-26.5GHz) |
| Model | DSC-G3 | Date | 08/07/2008 |
| S/N | 0000189 | Temperature | 24deg.C. |
| Power | AC 120V / 60Hz | Humidity | 73% |
| Mode | Tx, 11b, 2462MHz, 11Mbps | Engineer | Kazufumi Nakai |
| Position | H: Y-axis, V: Z-axis | | (1GHz-26.5GHz) |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit PK [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2483.50 | 47.8 | 46.4 | 27.0 | 32.5 | 2.6 | 0.0 | 44.9 | 43.5 | 73.9 | 29.0 | 30.4 |
| 2 | 4924.00 | 39.8 | 39.7 | 31.4 | 31.4 | 4.1 | 0.7 | 44.6 | 44.5 | 73.9 | 29.3 | 29.4 |
| 3 | 7386.00 | 41.8 | 40.8 | 35.9 | 31.0 | 4.5 | 0.6 | 51.8 | 50.8 | 73.9 | 22.1 | 23.1 |
| 4 | 9848.00 | 41.1 | 40.9 | 38.8 | 31.4 | 5.2 | 0.9 | 54.6 | 54.4 | 73.9 | 19.3 | 19.5 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 5 | 12310.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 6 | 14772.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 7 | 17234.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 8 | 19696.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 9 | 22158.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 10 | 24620.00 | 44.5 | 44.7 | 40.3 | 30.1 | 8.0 | 0.0 | 53.2 | 53.4 | 73.9 | 20.7 | 20.5 |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit AV [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2483.50 | 36.0 | 34.1 | 27.0 | 32.5 | 2.6 | 0.0 | 33.1 | 31.2 | 53.9 | 20.8 | 22.7 |
| 2 | 4924.00 | 28.1 | 27.7 | 31.4 | 31.4 | 4.1 | 0.7 | 32.9 | 32.5 | 53.9 | 21.0 | 21.4 |
| 3 | 7386.00 | 29.0 | 29.0 | 35.9 | 31.0 | 4.5 | 0.6 | 39.0 | 39.0 | 53.9 | 14.9 | 14.9 |
| 4 | 9848.00 | 28.6 | 28.6 | 38.8 | 31.4 | 5.2 | 0.9 | 42.1 | 42.1 | 53.9 | 11.8 | 11.8 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 5 | 12310.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 6 | 14772.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 7 | 17234.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 8 | 19696.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 9 | 22158.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 10 | 24620.00 | 32.5 | 32.5 | 40.3 | 30.1 | 8.0 | 0.0 | 41.2 | 41.2 | 53.9 | 12.7 | 12.7 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) = 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

# Radiated Spurious Emission (above 1GHz)

## Tx, 11g, 54Mbps, Ch: Low

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

| | | | |
|---|---|---|---|
| Company | Sony EMCS Corporation | Regulation | FCC15.247(d) / RSS-210 A8.5 |
| Equipment | Digital Still Camera | Test Distance | 3m (1G-10GHz) / 1m (10GHz-26.5GHz) |
| Model | DSC-G3 | Date | 08/07/2008 |
| S/N | 0000189 | Temperature | 24deg.C. |
| Power | AC 120V / 60Hz | Humidity | 73% |
| Mode | Tx, 11g, 2412MHz, 54Mbps | Engineer | Kazufumi Nakai |
| Position | H: Y-axis, V: Z-axis | | (1GHz-26.5GHz) |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit PK [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2390.00 | 49.7 | 46.1 | 26.8 | 32.5 | 2.6 | 0.0 | 46.6 | 43.0 | 73.9 | 27.3 | 30.9 |
| 2 | 2400.00 | 65.2 | 59.3 | 26.8 | 32.5 | 2.6 | 0.0 | 62.1 | 56.2 | 73.9 | 11.8 | 17.7 |
| 3 | 4824.00 | 40.8 | 41.0 | 31.2 | 31.4 | 4.1 | 0.7 | 45.4 | 45.6 | 73.9 | 28.5 | 28.3 |
| 4 | 7236.00 | 41.0 | 41.3 | 35.5 | 31.0 | 4.4 | 0.6 | 50.5 | 50.8 | 73.9 | 23.4 | 23.1 |
| 5 | 9648.00 | 40.7 | 41.2 | 38.6 | 31.4 | 5.2 | 0.9 | 54.0 | 54.5 | 73.9 | 19.9 | 19.4 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 6 | 12060.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 7 | 14472.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 8 | 16884.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 9 | 19296.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 10 | 21708.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 11 | 24120.00 | 46.1 | 45.5 | 39.9 | 30.0 | 7.8 | 0.0 | 54.3 | 53.7 | 73.9 | 19.6 | 20.2 |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit AV [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2390.00 | 36.1 | 32.0 | 26.8 | 32.5 | 2.6 | 0.0 | 33.0 | 28.9 | 53.9 | 20.9 | 25.0 |
| 2 | 2400.00 | 48.3 | 42.4 | 26.8 | 32.5 | 2.6 | 0.0 | 45.2 | 39.3 | 53.9 | 8.7 | 14.6 |
| 3 | 4824.00 | 28.5 | 29.0 | 31.2 | 31.4 | 4.1 | 0.7 | 33.1 | 33.6 | 53.9 | 20.8 | 20.3 |
| 4 | 7236.00 | 29.1 | 29.1 | 35.5 | 31.0 | 4.4 | 0.6 | 38.6 | 38.6 | 53.9 | 15.3 | 15.3 |
| 5 | 9648.00 | 29.0 | 29.0 | 38.6 | 31.4 | 5.2 | 0.9 | 42.3 | 42.3 | 53.9 | 11.6 | 11.6 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 6 | 12060.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 7 | 14472.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 8 | 16884.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 9 | 19296.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 10 | 21708.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 11 | 24120.00 | 34.2 | 34.2 | 39.9 | 30.0 | 7.8 | 0.0 | 42.4 | 42.4 | 53.9 | 11.5 | 11.5 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) = 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

# Radiated Spurious Emission

## Tx, 11g, 54Mbps, Ch: Mid

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

| | | | |
|---|---|---|---|
| Company | Sony EMCS Corporation | Regulation | FCC15.247(d) / RSS-210 A8.5 |
| Equipment | Digital Still Camera | Test Distance | 3m (1G-10GHz) / 1m (10GHz-26.5GHz) |
| Model | DSC-G3 | Date | 08/07/2008 |
| S/N | 0000189 | Temperature | 24deg.C. |
| Power | AC 120V / 60Hz | Humidity | 73% |
| Mode | Tx, 11g, 2437MHz, 54Mbps | Engineer | Kazufumi Nakai |
| Position | H: Y-axis, V: Z-axis | | (1GHz-26.5GHz) |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit PK [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 4874.00 | 41.5 | 41.1 | 31.3 | 31.4 | 4.1 | 0.7 | 46.2 | 45.8 | 73.9 | 27.7 | 28.1 |
| 2 | 7311.00 | 41.4 | 42.0 | 35.7 | 31.0 | 4.5 | 0.6 | 51.2 | 51.8 | 73.9 | 22.7 | 22.1 |
| 3 | 9748.00 | 40.7 | 41.0 | 38.7 | 31.4 | 5.2 | 0.9 | 54.1 | 54.4 | 73.9 | 19.8 | 19.5 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 4 | 12185.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 5 | 14622.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 6 | 17059.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 7 | 19496.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 8 | 21933.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 9 | 24370.00 | 45.7 | 45.4 | 40.1 | 30.0 | 7.9 | 0.0 | 54.2 | 53.9 | 73.9 | 19.7 | 20.0 |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit AV [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 4874.00 | 29.3 | 29.0 | 31.3 | 31.4 | 4.1 | 0.7 | 34.0 | 33.7 | 53.9 | 19.9 | 20.2 |
| 2 | 7311.00 | 29.3 | 29.3 | 35.7 | 31.0 | 4.5 | 0.6 | 39.1 | 39.1 | 53.9 | 14.8 | 14.8 |
| 3 | 9748.00 | 28.6 | 28.6 | 38.7 | 31.4 | 5.2 | 0.9 | 42.0 | 42.0 | 53.9 | 11.9 | 11.9 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 4 | 12185.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 5 | 14622.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 6 | 17059.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 7 | 19496.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 8 | 21933.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 9 | 24370.00 | 33.2 | 33.2 | 40.1 | 30.0 | 7.9 | 0.0 | 41.7 | 41.7 | 53.9 | 12.2 | 12.2 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) = 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

# Radiated Spurious Emission

## Tx, 11g, 54Mbps, Ch: High

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

| | | | |
|---|---|---|---|
| Company | Sony EMCS Corporation | Regulation | FCC15.247(d) / RSS-210 A8.5 |
| Equipment | Digital Still Camera | Test Distance | 3m (1G-10GHz) / 1m (10GHz-26.5GHz) |
| Model | DSC-G3 | Date | 08/07/2008 |
| S/N | 0000189 | Temperature | 24deg.C. |
| Power | AC 120V / 60Hz | Humidity | 73% |
| Mode | Tx, 11g, 2462MHz, 54Mbps | Engineer | Kazufumi Nakai |
| Position | H: Y-axis, V: Z-axis | | (1GHz-26.5GHz) |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit PK [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2483.50 | 65.7 | 62.0 | 27.0 | 32.5 | 2.6 | 0.0 | 62.8 | 59.1 | 73.9 | 11.1 | 14.8 |
| 2 | 4924.00 | 38.8 | 40.0 | 31.4 | 31.4 | 4.1 | 0.7 | 43.6 | 44.8 | 73.9 | 30.3 | 29.1 |
| 3 | 7386.00 | 40.9 | 41.3 | 35.9 | 31.0 | 4.5 | 0.6 | 50.9 | 51.3 | 73.9 | 23.0 | 22.6 |
| 4 | 9848.00 | 40.6 | 41.0 | 38.8 | 31.4 | 5.2 | 0.9 | 54.1 | 54.5 | 73.9 | 19.8 | 19.4 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 5 | 12310.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 6 | 14772.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 7 | 17234.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 8 | 19696.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 9 | 22158.00 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| 10 | 24620.00 | 44.6 | 44.6 | 40.3 | 30.1 | 8.0 | 0.0 | 53.3 | 53.3 | 73.9 | 20.6 | 20.6 |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit AV [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2483.50 | 48.7 | 45.1 | 27.0 | 32.5 | 2.6 | 0.0 | 45.8 | 42.2 | 53.9 | 8.1 | 11.7 |
| 2 | 4924.00 | 27.5 | 27.9 | 31.4 | 31.4 | 4.1 | 0.7 | 32.3 | 32.7 | 53.9 | 21.6 | 21.2 |
| 3 | 7386.00 | 29.1 | 29.1 | 35.9 | 31.0 | 4.5 | 0.6 | 39.1 | 39.1 | 53.9 | 14.8 | 14.8 |
| 4 | 9848.00 | 28.4 | 28.4 | 38.8 | 31.4 | 5.2 | 0.9 | 41.9 | 41.9 | 53.9 | 12.0 | 12.0 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 5 | 12310.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 6 | 14772.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 7 | 17234.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 8 | 19696.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 9 | 22158.00 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| 10 | 24620.00 | 32.5 | 32.5 | 40.3 | 30.1 | 8.0 | 0.0 | 41.2 | 41.2 | 53.9 | 12.7 | 12.7 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3.0/1.0) = 9.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the third harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

# Radiated Spurious Emission

## Rx, 11b/g, Ch: Mid

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

| | | | |
|---|---|---|---|
| Company | Sony EMCS Corporation | Regulation | FCC15.247(d) / RSS-210 A8.5 |
| Equipment | Digital Still Camera | Test Distance | 3m (1G-10GHz) |
| Model | DSC-G3 | Date | 08/07/2008 |
| S/N | 0000189 | Temperature | 24deg.C. |
| Power | AC 120V / 60Hz | Humidity | 73% |
| Mode | Rx, 11b/g, 2437MHz | Engineer | Kazufumi Nakai |
| Position | H: Y-axis, V: Z-axis | | (1GHz-10GHz) |

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

| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit PK [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2437.00 | 41.8 | 42.3 | 26.9 | 32.5 | 2.6 | 0.0 | 38.8 | 39.3 | 73.9 | 35.1 | 34.6 |

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

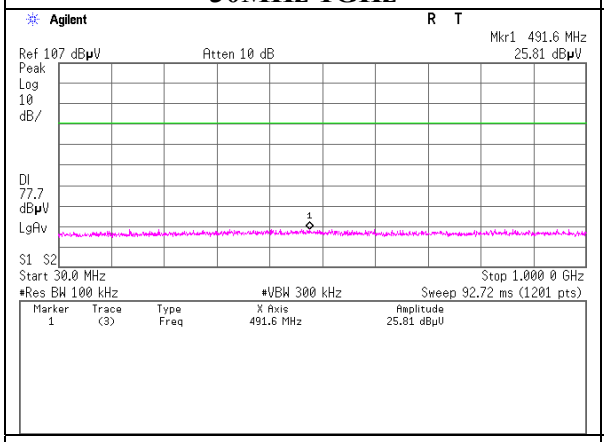
| No. | FREQ [MHz] | S/A READING HOR [dBuV] | S/A READING VER [dBuV] | ANT Factor [dB/m] | AMP GAIN [dB] | CABLE LOSS [dB] | Hi-Pass Filter [dB] | RESULT HOR [dBuV/m] | RESULT VER [dBuV/m] | Limit AV [dBuV/m] | MARGIN HOR [dB] | MARGIN VER [dB] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 2437.00 | 29.1 | 29.1 | 26.9 | 32.5 | 2.6 | 0.0 | 26.1 | 26.1 | 53.9 | 27.8 | 27.8 |

*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The test result is rounded off to one or two decimal places, so some differences might be observed.
*NS: No detect Signal.

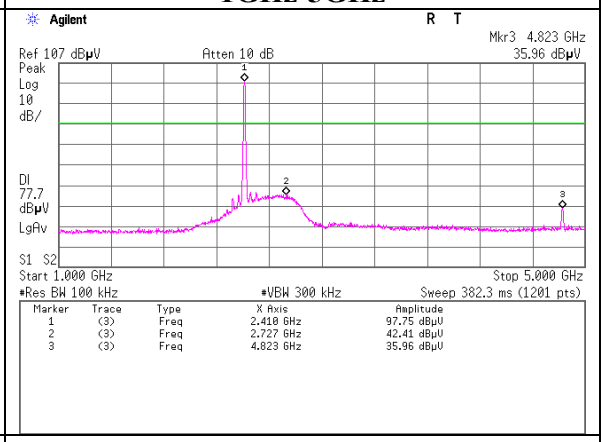
# Conducted Spurious Emission

## Tx, 11b, Ch: Low

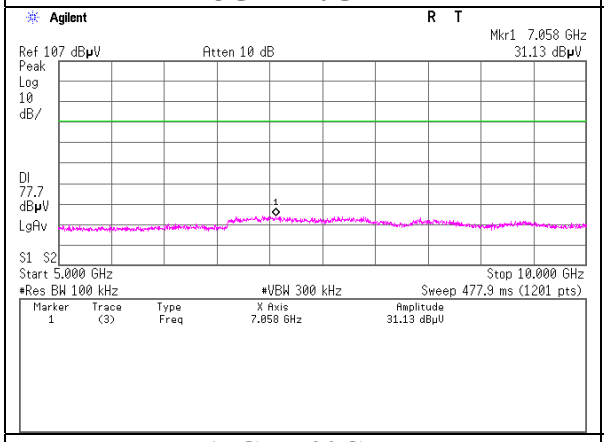
### 30MHz-1GHz



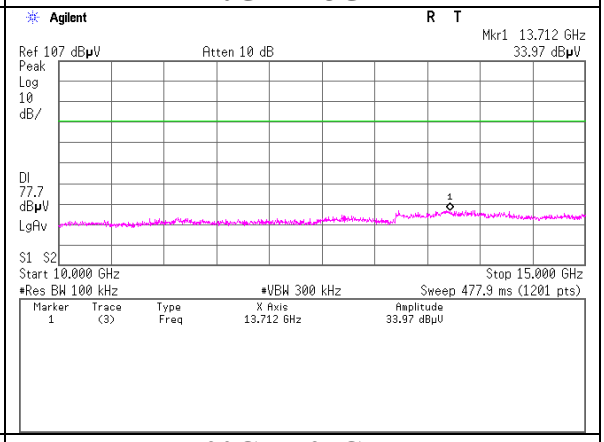

### 1GHz-5GHz



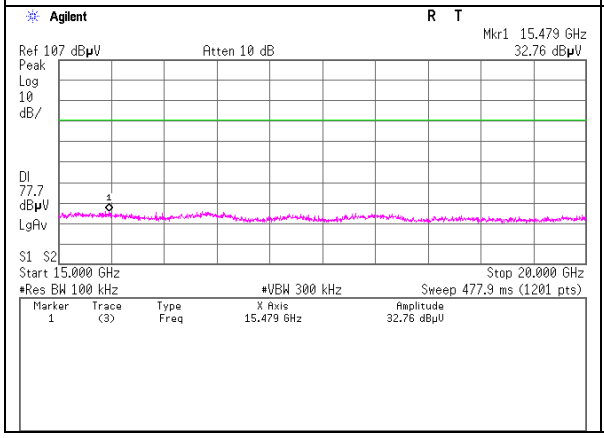

### 5GHz-10GHz



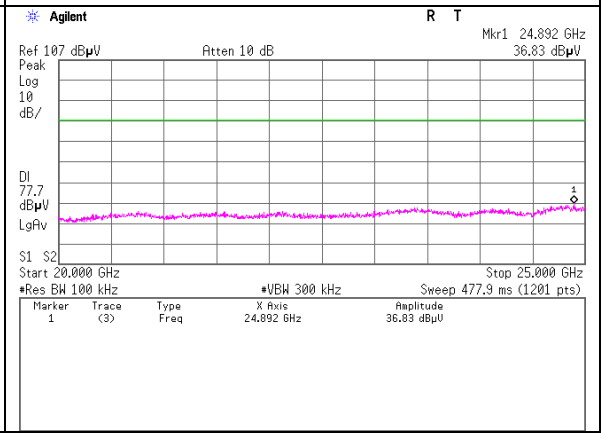

### 10GHz-15GHz




### 15GHz-20GHz



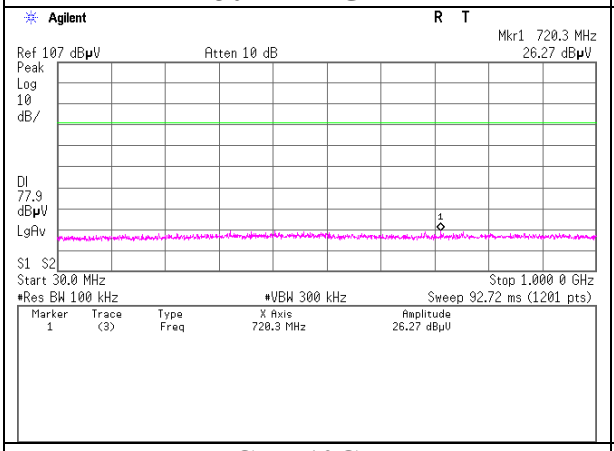

### 20GHz-25GHz



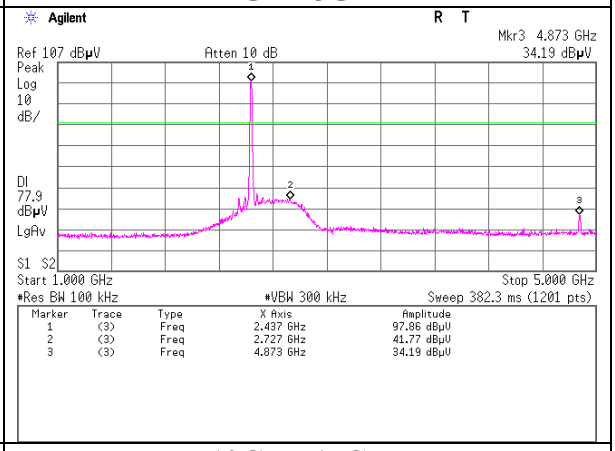
# Conducted Spurious Emission

## Tx, 11b, Ch: Mid

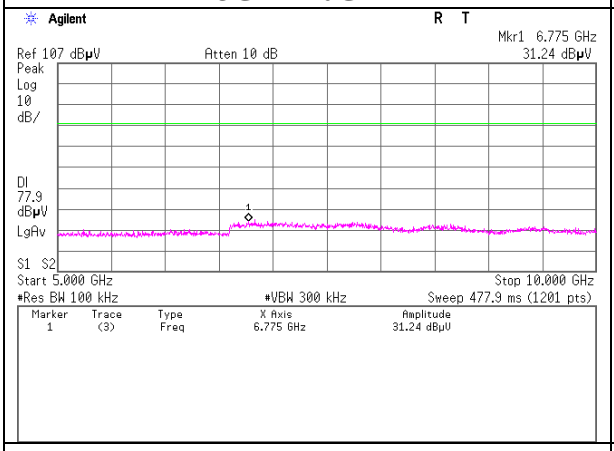
### 30MHz-1GHz



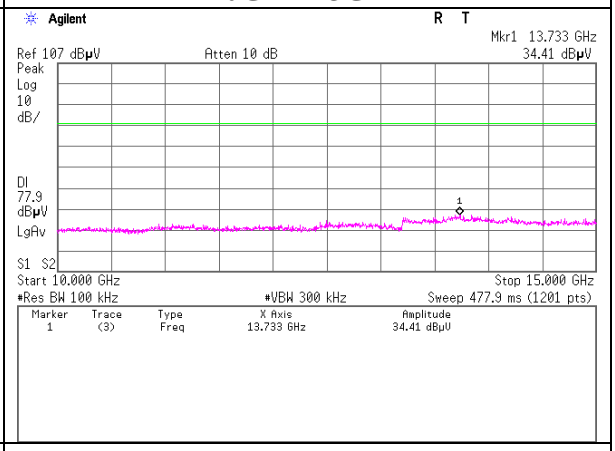

### 1GHz-5GHz



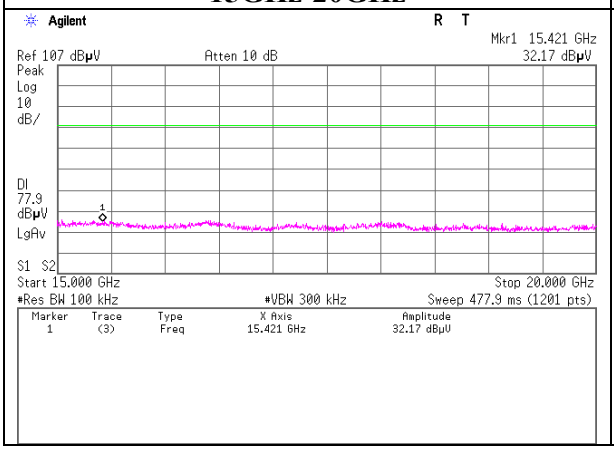

### 5GHz-10GHz



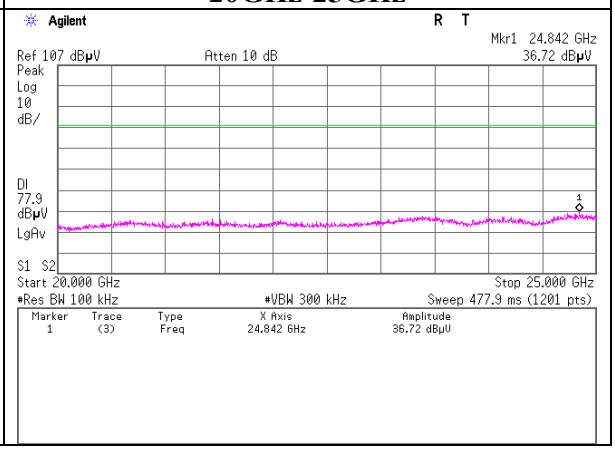

### 10GHz-15GHz




### 15GHz-20GHz



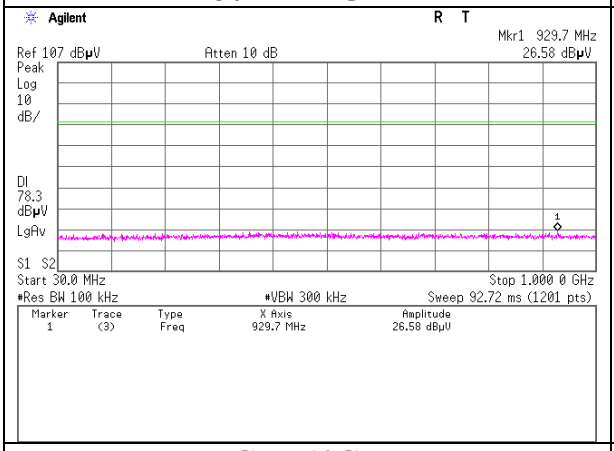

### 20GHz-25GHz



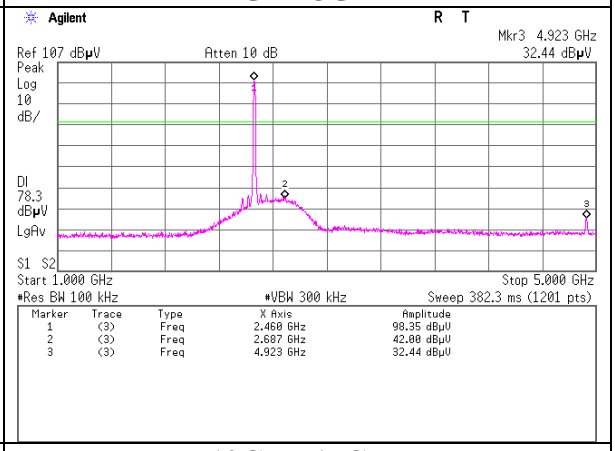
# Conducted Spurious Emission

## Tx, 11b, Ch: High

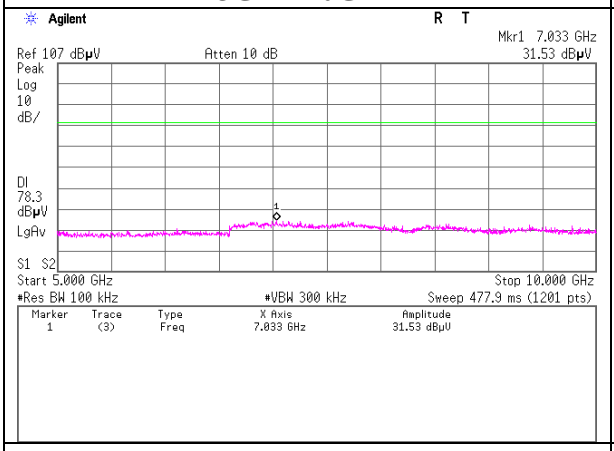
### 30MHz-1GHz



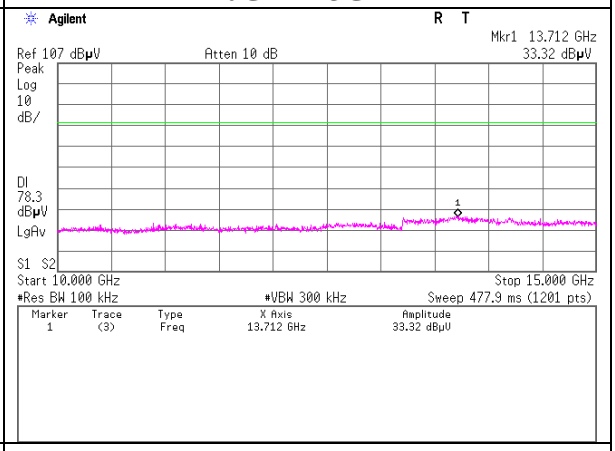

### 1GHz-5GHz



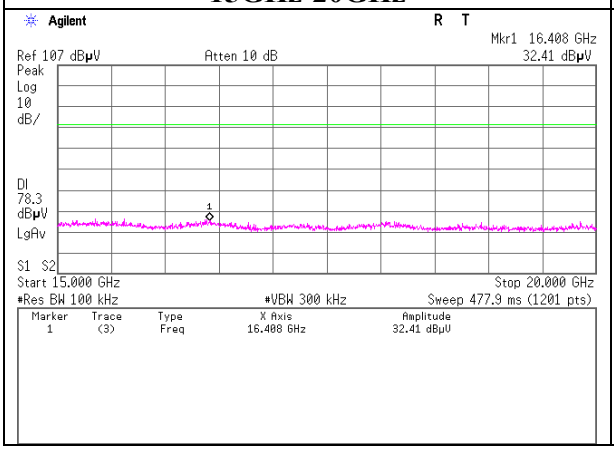

### 5GHz-10GHz



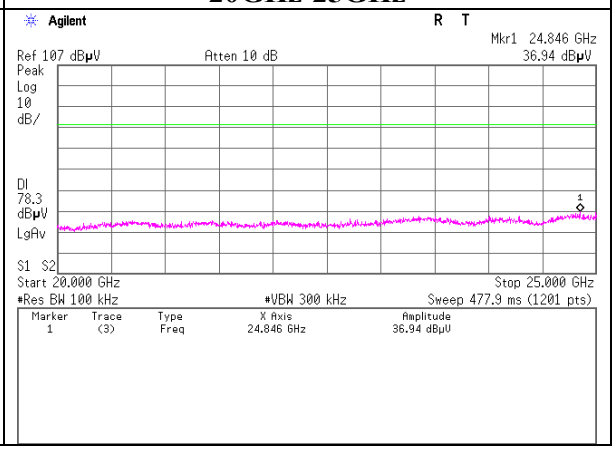

### 10GHz-15GHz




### 15GHz-20GHz



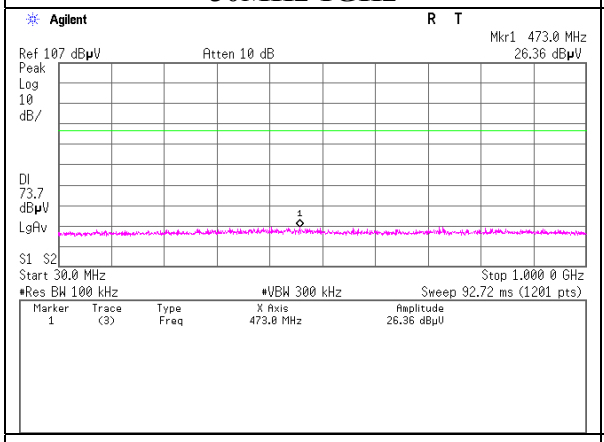

### 20GHz-25GHz



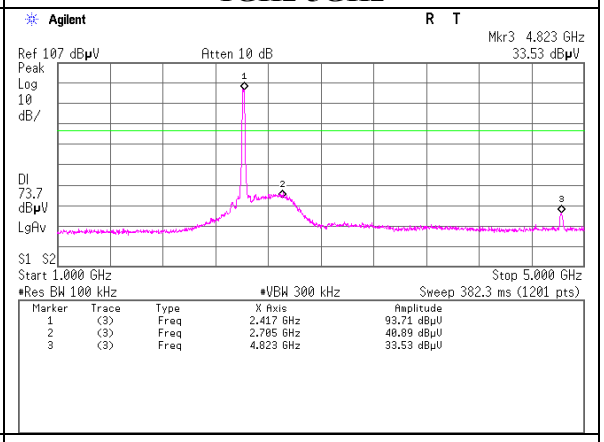
# Conducted Spurious Emission

## Tx, 11g, Ch: Low

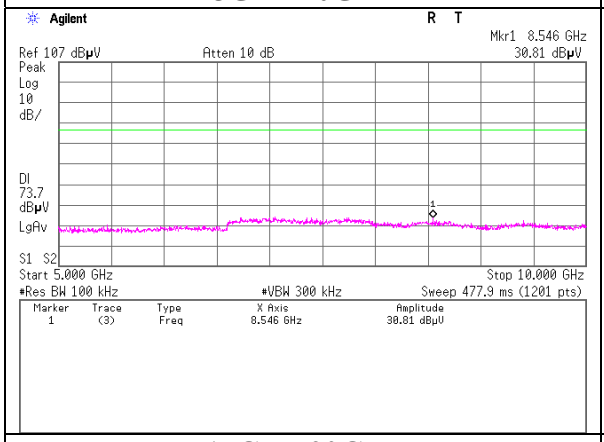
### 30MHz-1GHz



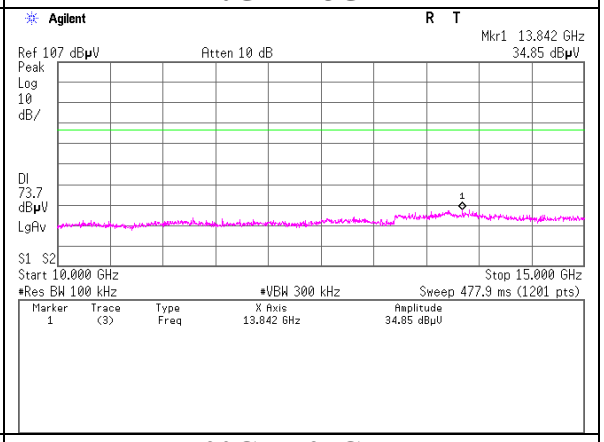

### 1GHz-5GHz



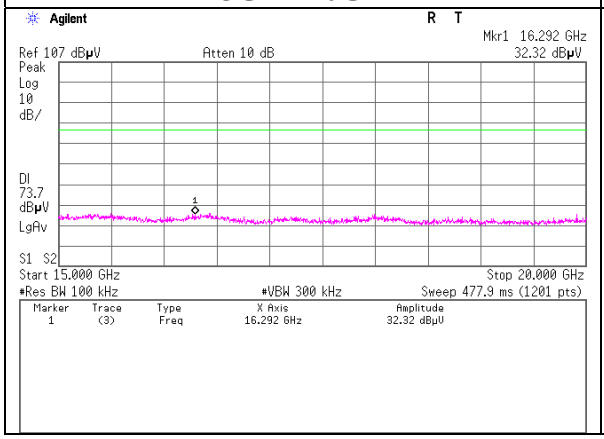

### 5GHz-10GHz



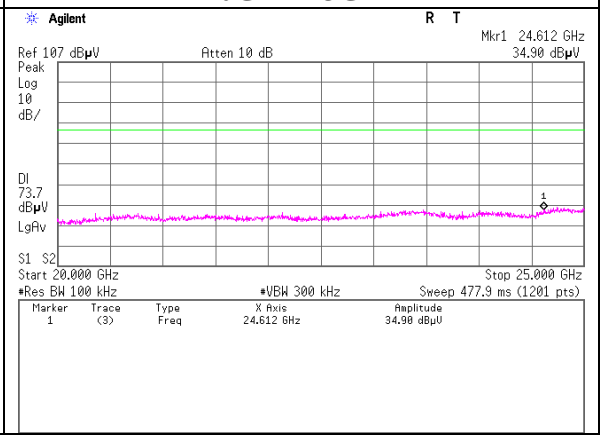

### 10GHz-15GHz




### 15GHz-20GHz



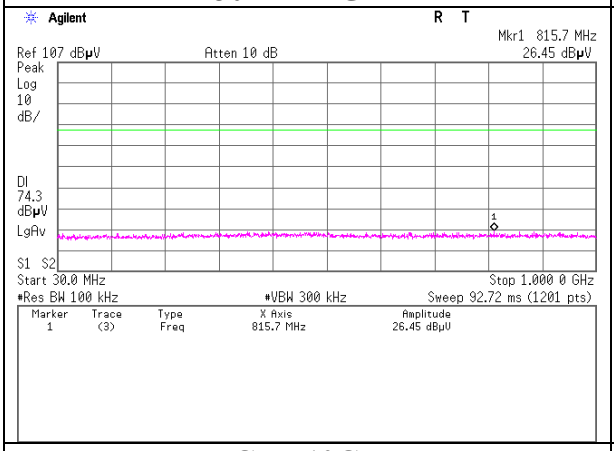

### 20GHz-25GHz



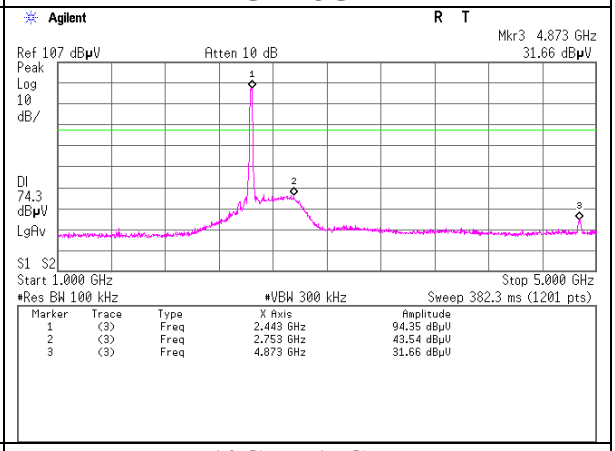
# Conducted Spurious Emission

## Tx, 11g, Ch: Mid

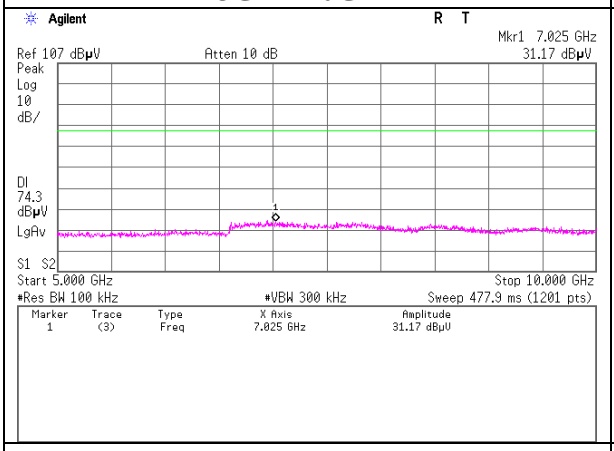
### 30MHz-1GHz



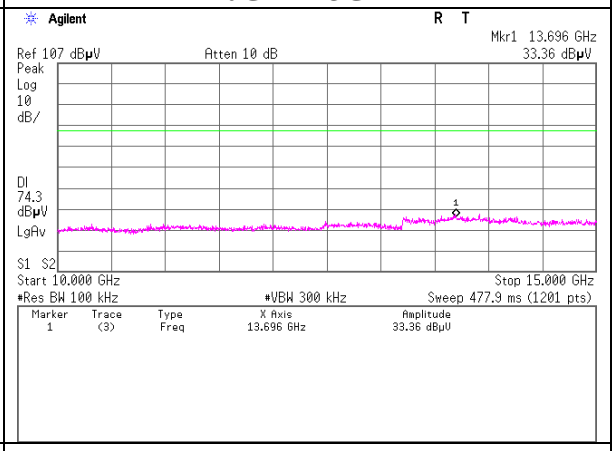

### 1GHz-5GHz



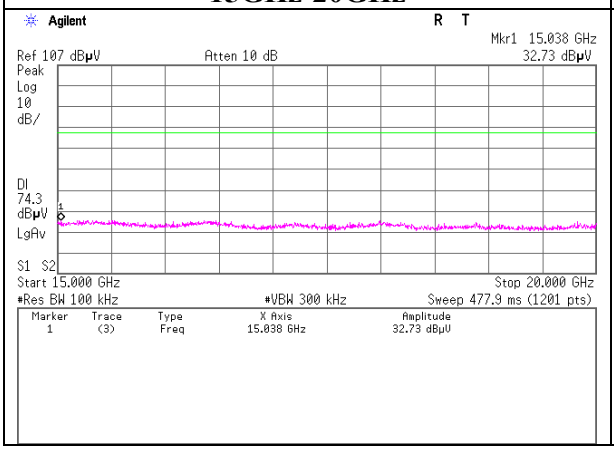

### 5GHz-10GHz



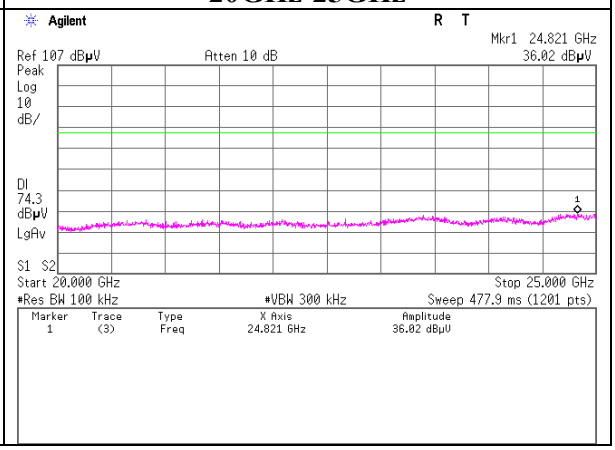

### 10GHz-15GHz




### 15GHz-20GHz



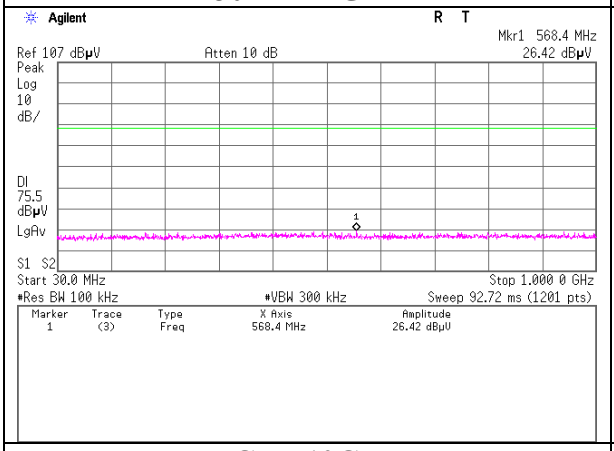

### 20GHz-25GHz



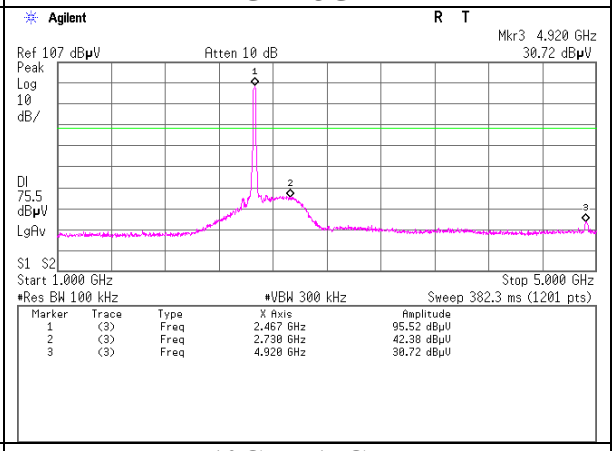
# Conducted Spurious Emission

## Tx, 11g, Ch: High

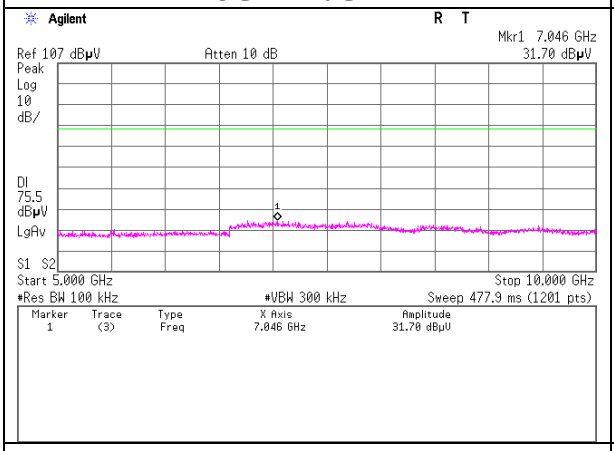
### 30MHz-1GHz



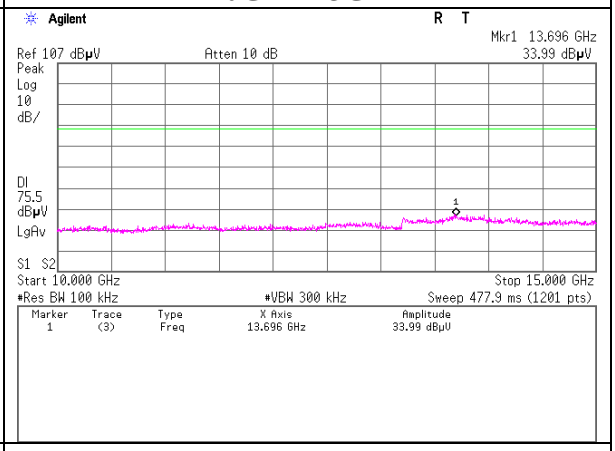

### 1GHz-5GHz



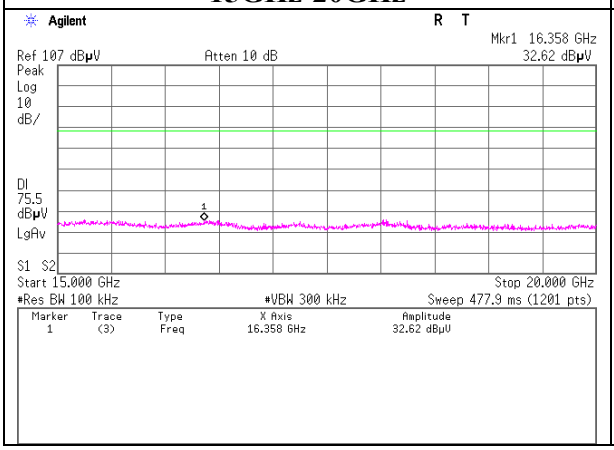

### 5GHz-10GHz



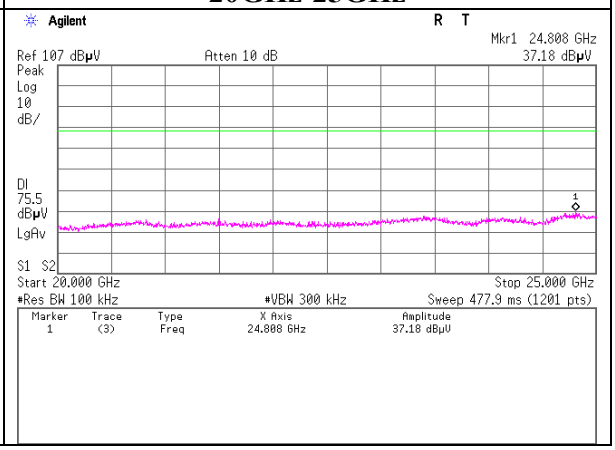

### 10GHz-15GHz




### 15GHz-20GHz



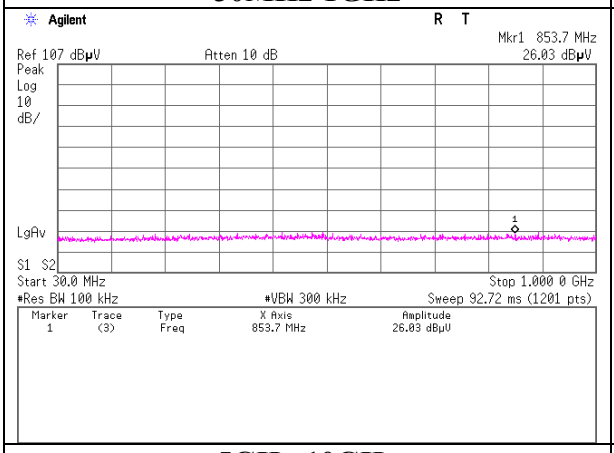

### 20GHz-25GHz



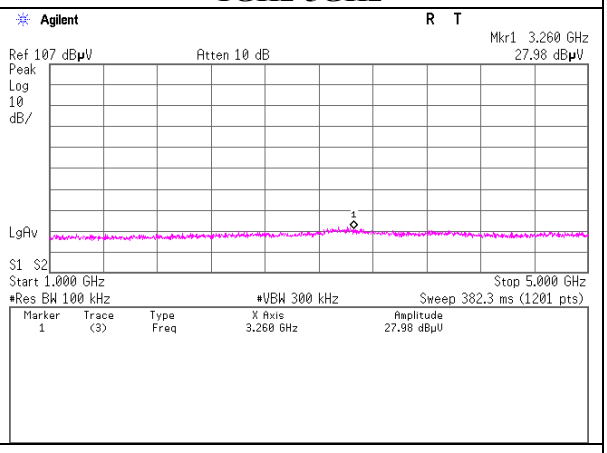
# Conducted Spurious Emission

## Rx, 11b/g, Ch: Mid

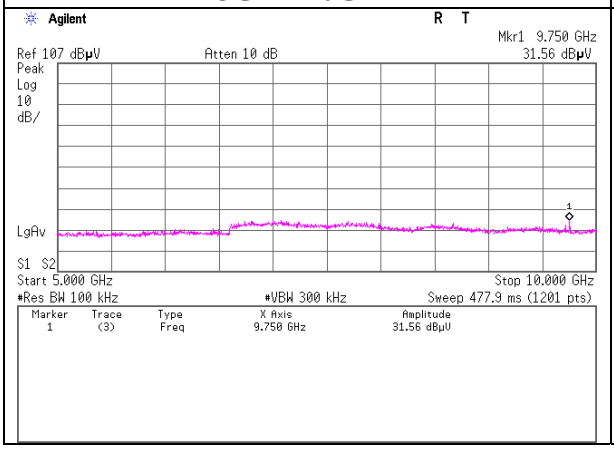
### 30MHz-1GHz




### 1GHz-5GHz



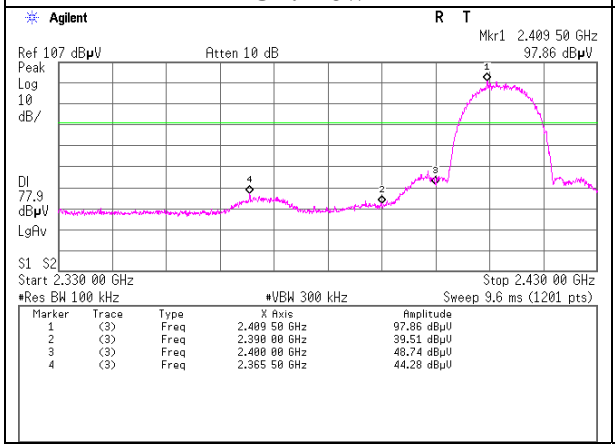

### 5GHz-10GHz



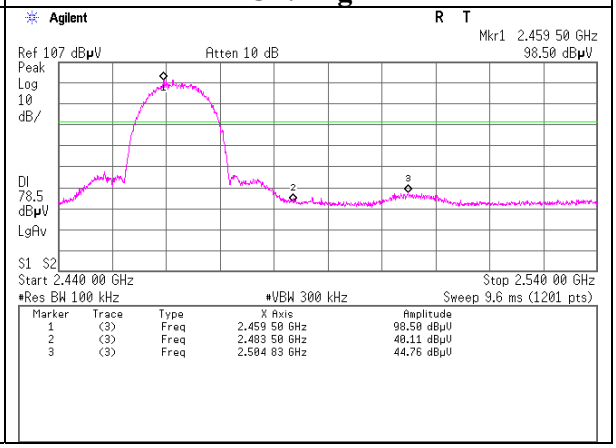
# Conducted emission Band Edge compliance

## 11b, 11Mbps

### Ch: Low

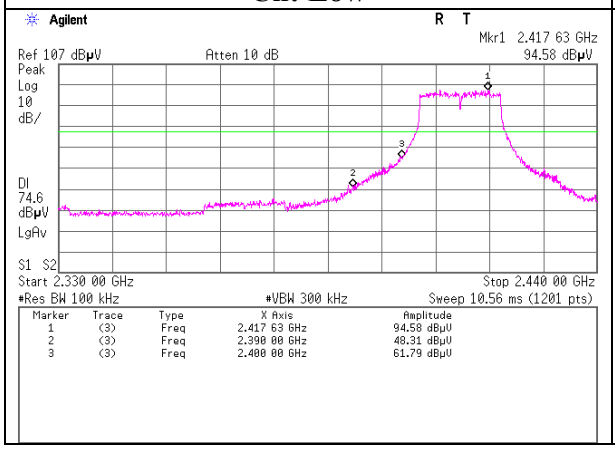



### Ch: High

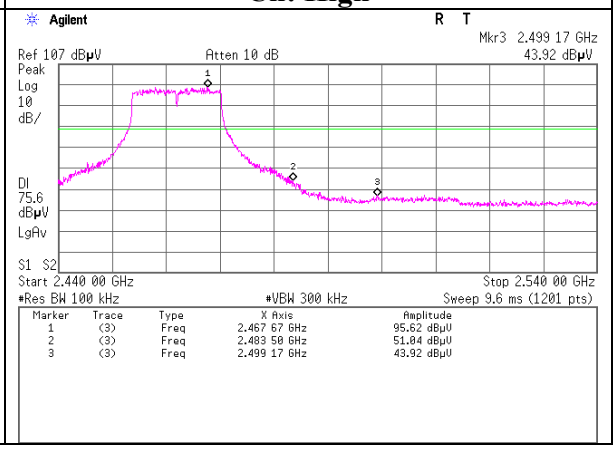



## 11g, 54Mbps

### Ch: Low




### Ch: High



# Power Density

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

| | | | |
|---|---|---|---|
| Company | : Sony EMCS Corporation | Regulation | : FCC15.247(e)/RSS-210A8.2(b) |
| Equipment | : Digital Still Camera | Test distance | : - |
| Model No. | : DSC-G3 | Date | : 08/06/2008 |
| Serial No. | : 0000187 | Temperature | : 26℃ |
| Power | : AC120V/60Hz | Humidity | : 55% |
| Mode | : Tx 11b/g | Engineer | : Takumi Shimada |

[IEEE802.11b] **11Mbps(worst)**

| Ch | Freq. [MHz] | Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| Low | 2410.9 | -24.97 | 2.0 | 10.0 | -13.0 | 8.0 | 21.0 |
| Mid | 2438.4 | -25.29 | 2.0 | 10.0 | -13.3 | 8.0 | 21.3 |
| High | 2462.7 | -24.22 | 2.0 | 10.0 | -12.3 | 8.0 | 20.3 |

Sample Calculation:
Result = Reading + Cable Loss (spplied by customer) + Attenuator

[IEEE802.11g] **54Mbps(worst)**

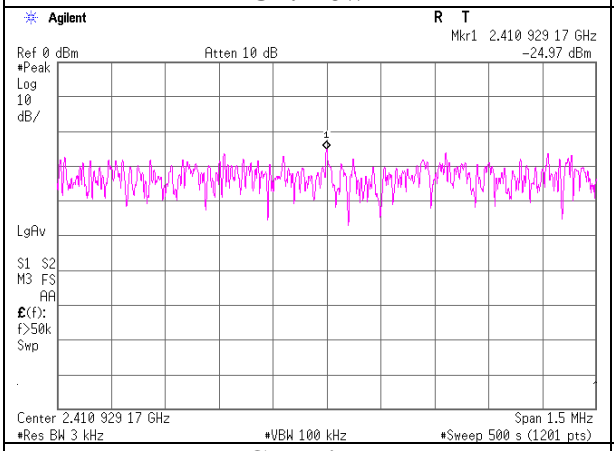
| Ch | Freq. [MHz] | Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| Low | 2413.2 | -28.15 | 2.0 | 10.0 | -16.2 | 8.0 | 24.2 |
| Mid | 2438.5 | -27.16 | 2.0 | 10.0 | -15.2 | 8.0 | 23.2 |
| High | 2464.8 | -26.26 | 2.0 | 10.0 | -14.3 | 8.0 | 22.3 |

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

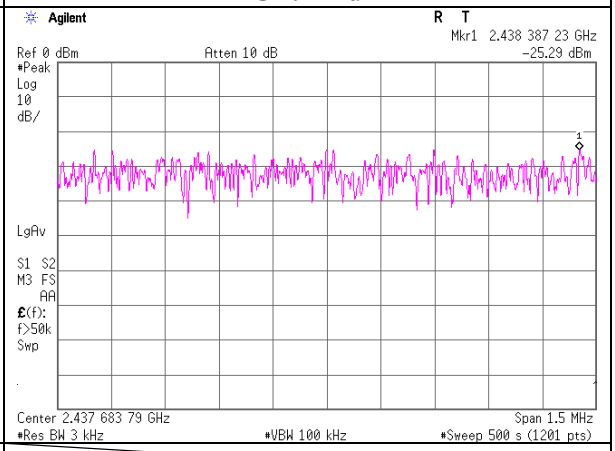
# Power Density

## 11b, 11Mbps

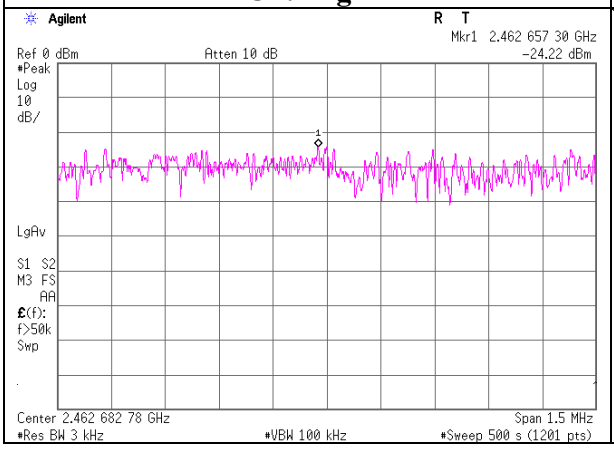
### Ch: Low




### Ch: Mid



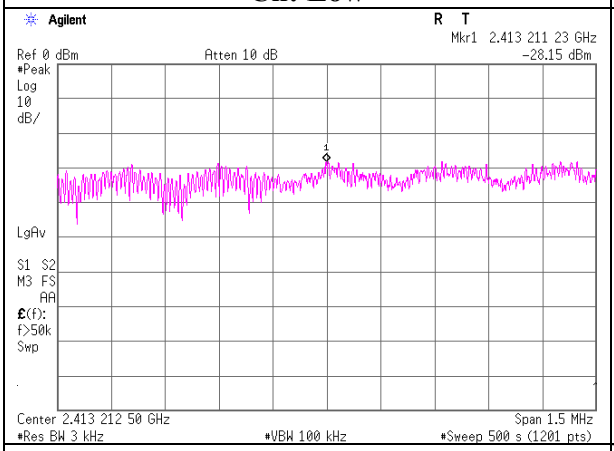

### Ch: High



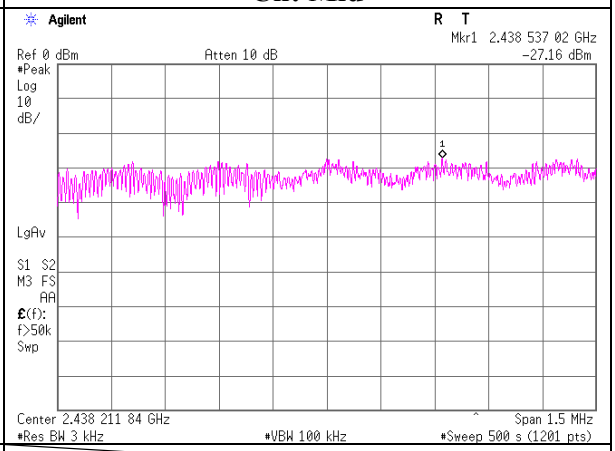
# Power Density

## 11g, 54Mbps

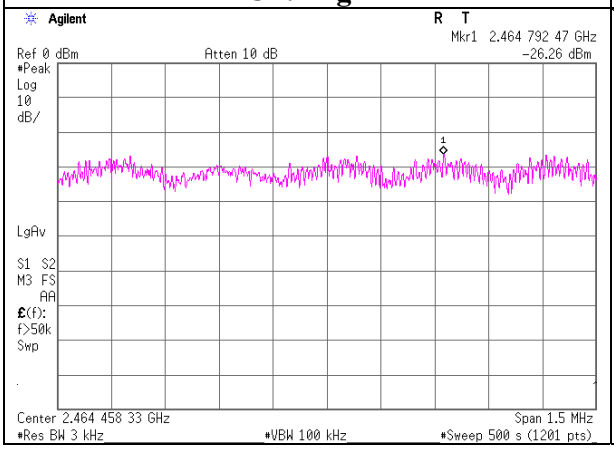
### Ch: Low




### Ch: Mid



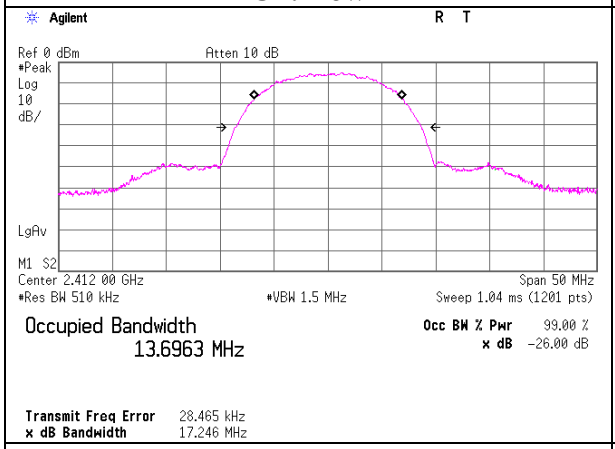

### Ch: High



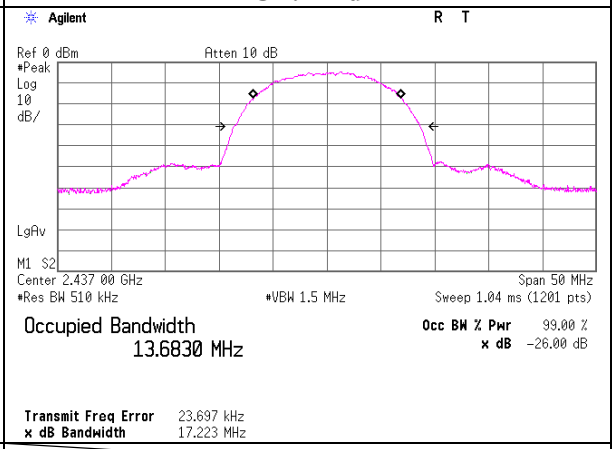
# 99%Occupied Bandwidth

## 11b, 11Mbps

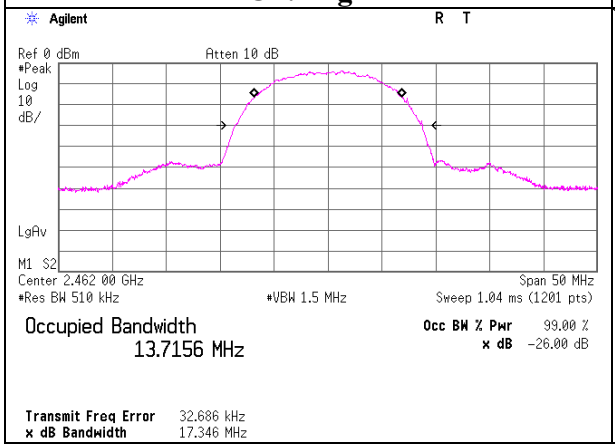
### Ch: Low




### Ch: Mid



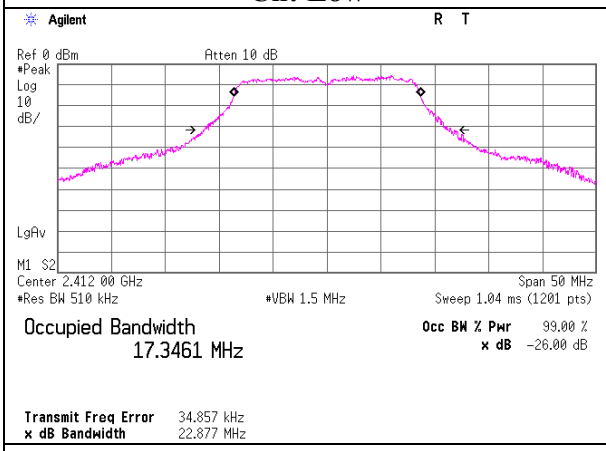

### Ch: High



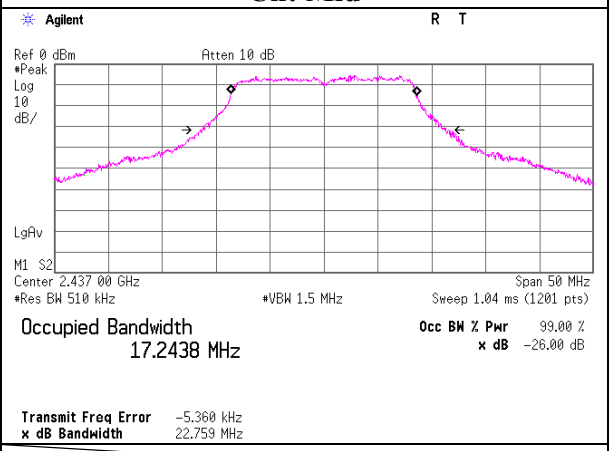
# 99%Occupied Bandwidth

## 11g, 54Mbps

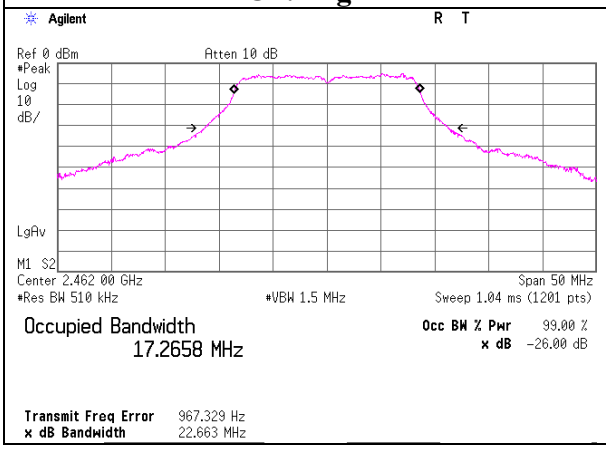
### Ch: Low




### Ch: Mid




### Ch: High



## APPENDIX 3:Test instruments

| Control No. | Instrument | Manufacturer | Model No | Test Item | Calibration Date * Interval(month) |
|---|---|---|---|---|---|
| MSA-10 | Spectrum Analyzer | Agilent | E4448A | AT | 2008/02/27 * 12 |
| MPM-08 | Power Meter | Anritsu | ML2495A | AT | 2007/09/12 * 12 |
| MPSE-11 | Power sensor | Anritsu | MA2411B | AT | 2007/09/12 * 12 |
| MOS-04 | Digital Humidity Indicator | N.T | NT-1800 | AT | 2007/11/12 * 12 |
| MCC-67 | Microwave Cable 1G-40GHz | Schner | SUCOFLEX102 | AT | 2008/04/04 * 12 |
| MAT-24 | Attenuator(10dB) (above1GHz) | Agilent | 8493C | AT | 2008/06/25 * 12 |
| MAEC-02 | Anechoic Chamber | TDK | Semi Anechoic Chamber 3m | RE/CE | 2008/04/17 * 12 |
| MOS-22 | Thermo-Hygrometer | Custom | CTH-201 | RE/CE | 2007/12/27 * 12 |
| MJM-05 | Measure | PROMART | SEN1955 | RE/CE | - |
| MSTW-14 | EMI measurement program | TSJ | TEPTO-DV | RE/CE | - |
| MRENT-62 | Spectrum Analyzer | Agilent | E4448A | RE/CE | 2007/11/27 * 12 |
| MHA-06 | Horn Antenna | Schwarzbeck | BBHA9120D | RE | 2008/01/19 * 12 |
| MCC-47 | Microwave Cable 1G-26.5GHz | Suhner | SUCOFLEX104 | RE | 2008/05/12 * 12 |
| MPA-10 | Pre Amplifier | Agilent | 8449B | RE | 2007/09/27 * 12 |
| MHA-02 | Horn Antenna | EMCO | 3160-09 | RE | 2008/01/19 * 12 |
| MHF-18 | High Pass Filter 3.5-18.0GHz | TOKIMEC | TF323DCA | RE | 2007/12/10 * 12 |
| MCC-77 | Microwave Cable 1G-26.5GHz | Suhner | SUCOFLEX104 | RE | 2007/12/26 * 12 |
| MBA-02 | Biconical Antenna | Schwarzbeck | BBA9106 | RE | 2007/10/21 * 12 |
| MLA-02 | Logperiodic Antenna | Schwarzbeck | USLP9143 | RE | 2007/10/21 * 12 |
| MTR-03 | Test Receiver | Rohde & Schwarz | ESCI | RE/CE | 2008/04/02 * 12 |
| MAT-07 | Attenuator(6dB) | Weinschel Corp | 2 | RE | 2007/11/13 * 12 |
| MCC-12 | Coaxial Cable | Fujikura/Agilent | - | RE | 2008/02/15 * 12 |
| MPA-09 | Pre Amplifier | Agilent | 8447D | RE | 2007/09/13 * 12 |
| MLS-06 | LISN(AMN) | Schwarzbeck | NSLK8127 | CE(EUT) | 2008/02/19 * 12 |
| MLS-07 | LISN(AMN) | Schwarzbeck | NSLK8127 | CE(AE) | 2008/02/20 * 12 |
| MCC-13 | Coaxial Cable | Fujikura/Agilent | - | CE | 2008/02/15 * 12 |
| MTA-07 | Terminator | MCL | BTRM-50 | CE | 2008/02/04 * 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.**

**As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

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