

APPENDIX 2: Data of EMI test

Conducted Emission

11a Tx, 5180MHz

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5180MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

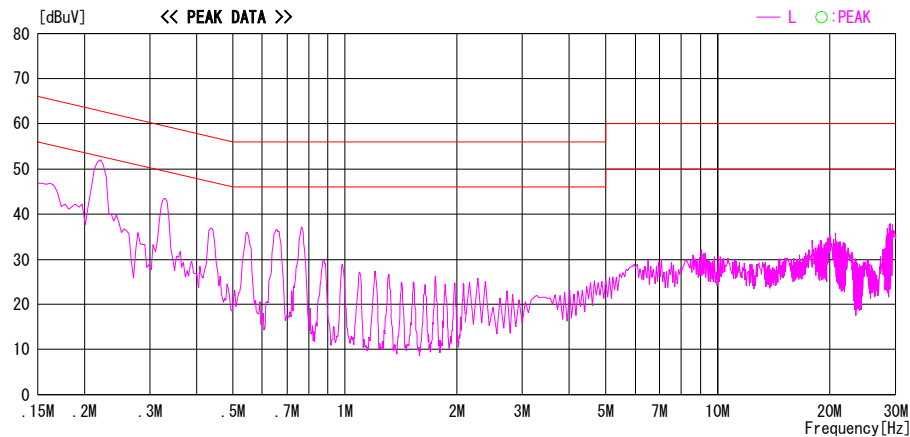
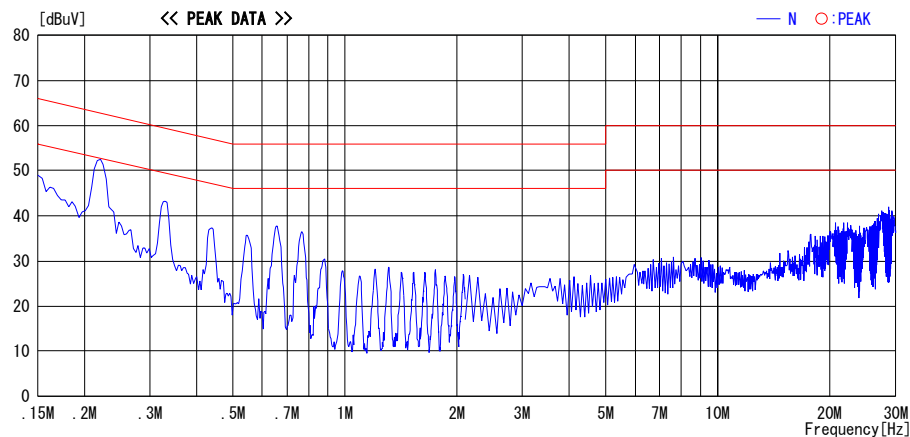


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11a Tx, 5180MHz
DATA OF CONDUCTED EMISSION TEST

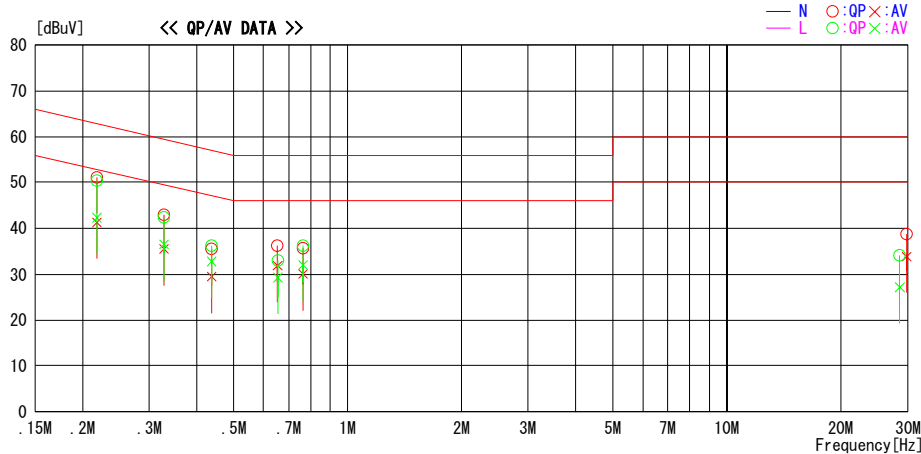
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5180MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.21816	50.9	41.1	0.2	51.1	41.3	62.9	52.9	11.8	11.6	N
0.32776	42.6	35.2	0.3	42.9	35.5	59.5	49.5	16.6	14.0	N
0.43703	35.2	29.2	0.3	35.5	29.5	57.1	47.1	21.6	17.6	N
0.65466	36.0	31.6	0.3	36.3	31.9	56.0	46.0	19.7	14.1	N
0.76364	35.3	29.7	0.4	35.7	30.1	56.0	46.0	20.3	15.9	N
29.77138	35.9	31.1	2.8	38.7	33.9	60.0	50.0	21.3	16.1	N
0.21819	50.2	42.1	0.2	50.4	42.3	62.9	52.9	12.5	10.6	L
0.32806	42.1	36.2	0.3	42.4	36.5	59.5	49.5	17.1	13.0	L
0.43702	36.0	32.5	0.3	36.3	32.8	57.1	47.1	20.8	14.3	L
0.65606	32.7	29.0	0.3	33.0	29.3	56.0	46.0	23.0	16.7	L
0.76404	35.8	31.6	0.4	36.2	32.0	56.0	46.0	19.8	14.0	L
28.56660	31.3	24.4	2.8	34.1	27.2	60.0	50.0	25.9	22.8	L

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.

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

Conducted Emission
11a Tx, 5260MHz
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5260MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

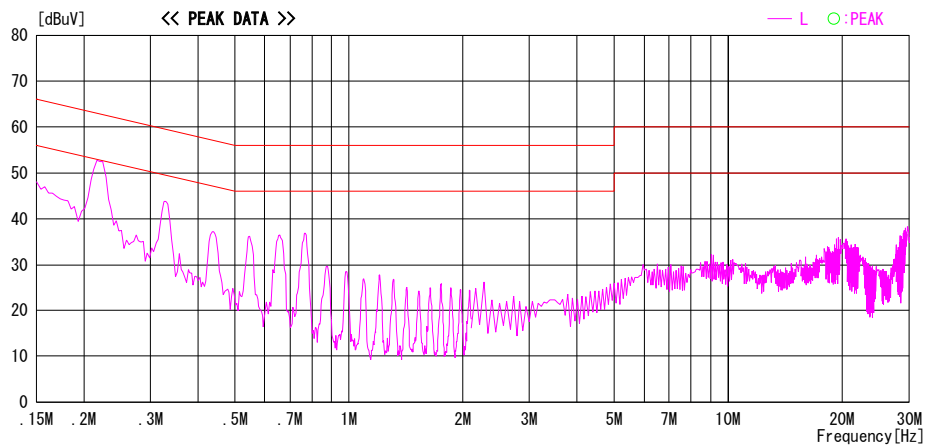
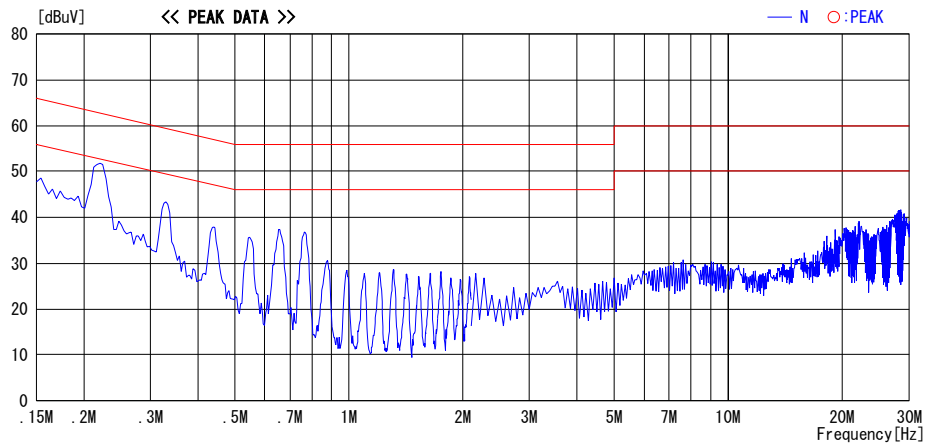


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11a Tx, 5320MHz
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5320MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

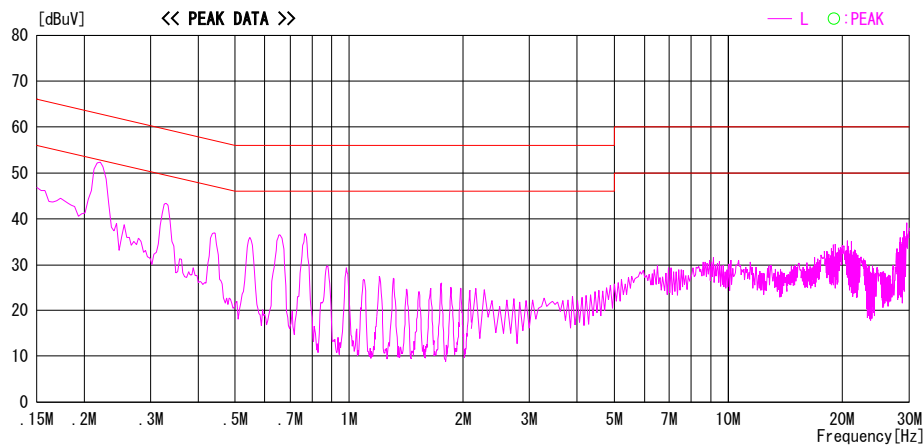
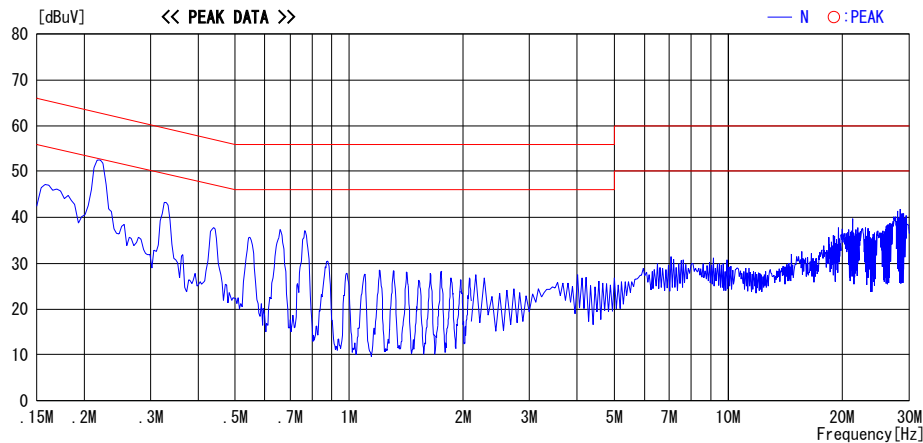


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11a Tx, 5745MHz
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg. C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11a Tx 5745MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

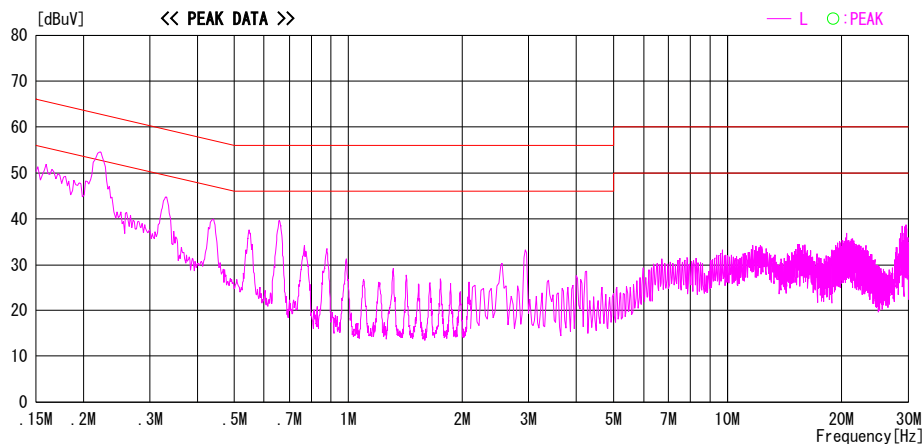
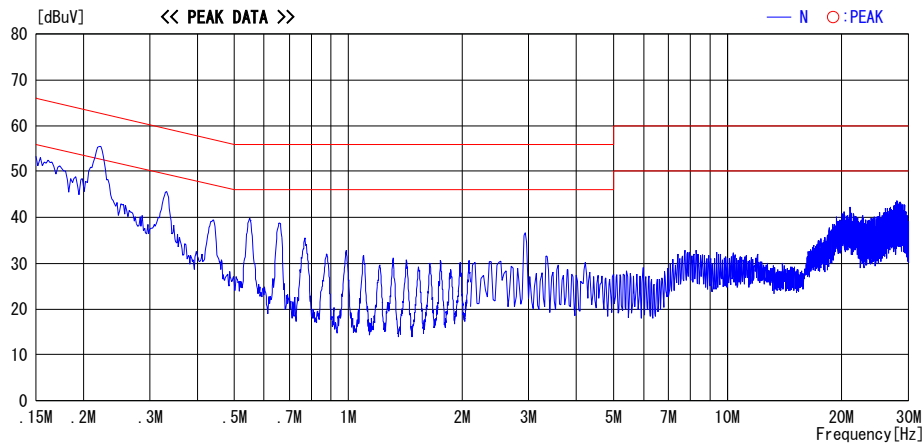


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuV] = READING [dBuV] + C. F [dB] (LISN LOSS + CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11a Tx, 5745MHz
DATA OF CONDUCTED EMISSION TEST

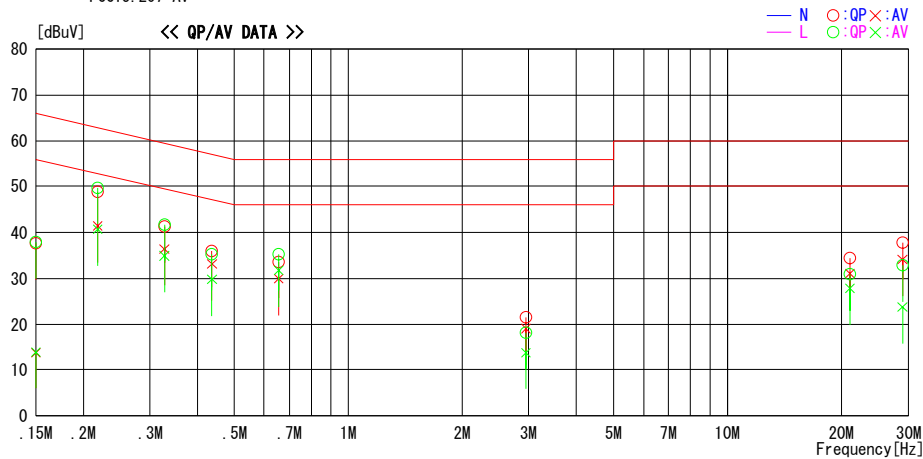
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11a Tx 5745MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	37.3	13.6	0.3	37.6	13.9	66.0	56.0	28.4	42.1	N
0.21819	48.5	41.1	0.3	48.8	41.4	62.9	52.9	14.1	11.5	N
0.32747	41.0	36.1	0.3	41.3	36.4	59.5	49.5	18.2	13.1	N
0.43679	35.7	32.8	0.3	36.0	33.1	57.1	47.1	21.1	14.0	N
0.65549	33.3	29.6	0.3	33.6	29.9	56.0	46.0	22.4	16.1	N
2.94671	21.0	18.6	0.5	21.5	19.1	56.0	46.0	34.5	26.9	N
21.06190	32.6	29.3	1.8	34.4	31.1	60.0	50.0	25.6	18.9	N
28.91673	35.7	32.1	2.0	37.7	34.1	60.0	50.0	22.3	15.9	N
0.15000	37.6	13.7	0.3	37.9	14.0	66.0	56.0	28.1	42.0	L
0.21819	49.4	40.4	0.3	49.7	40.7	62.9	52.9	13.2	12.2	L
0.32747	41.4	34.6	0.3	41.7	34.9	59.5	49.5	17.8	14.6	L
0.43679	35.0	29.5	0.3	35.3	29.8	57.1	47.1	21.8	17.3	L
0.65549	35.0	31.4	0.3	35.3	31.7	56.0	46.0	20.7	14.3	L
2.94671	17.7	13.3	0.5	18.2	13.8	56.0	46.0	37.8	32.2	L
21.06190	29.1	26.0	1.8	30.9	27.8	60.0	50.0	29.1	22.2	L
28.91673	30.8	21.8	2.0	32.8	23.8	60.0	50.0	27.2	26.2	L

CHART: WITH FACTOR, Peak hold data. CALCULATION: 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
11a Tx, 5765MHz
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11a Tx 5765MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

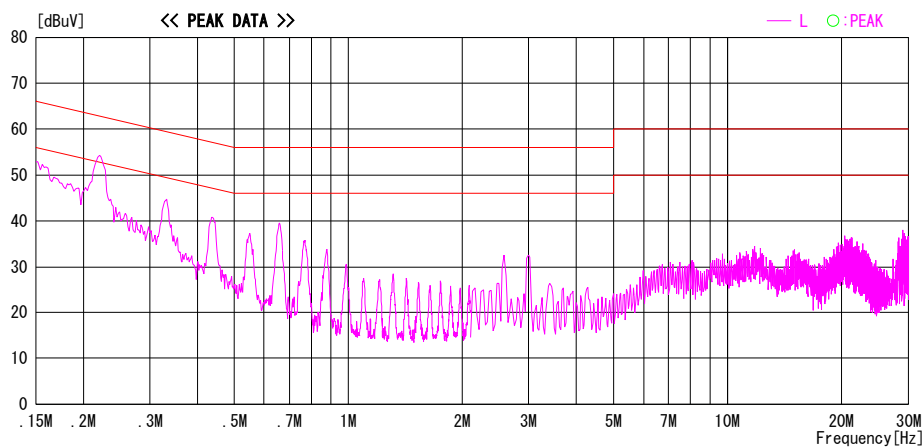
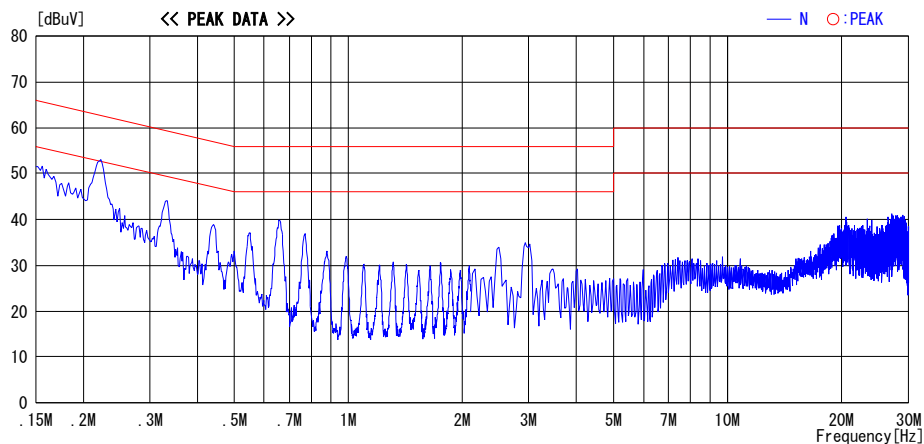


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11a Tx, 5805MHz
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11a Tx 5805MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

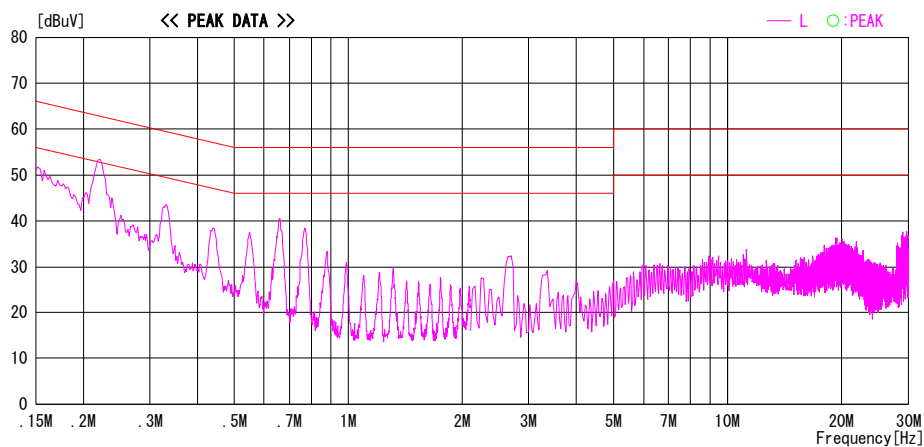
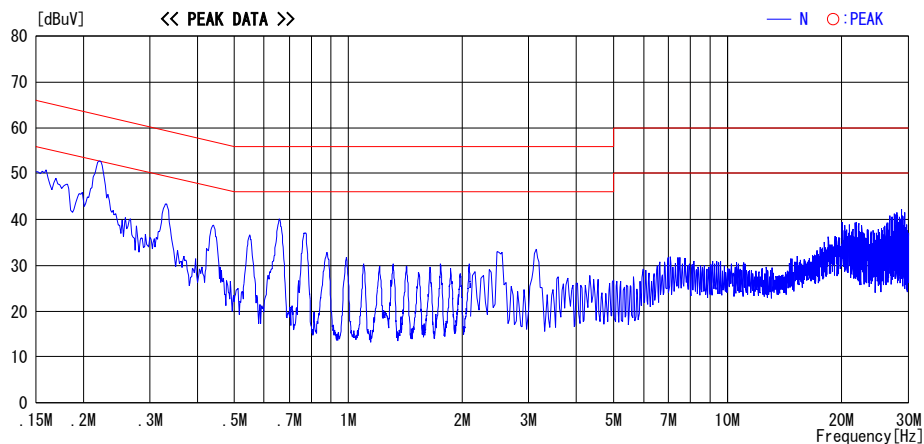


CHART:WITH FACTOR, Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Test report No. : 27LE0180-YK-B-R1
Page : 24 of 78
Issued date : September 12, 2007
Revised date : October 29, 2007
FCC ID : BSFFC-N21S

Conducted Emission
11a Rx, 5260MHz
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Rx 5260MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

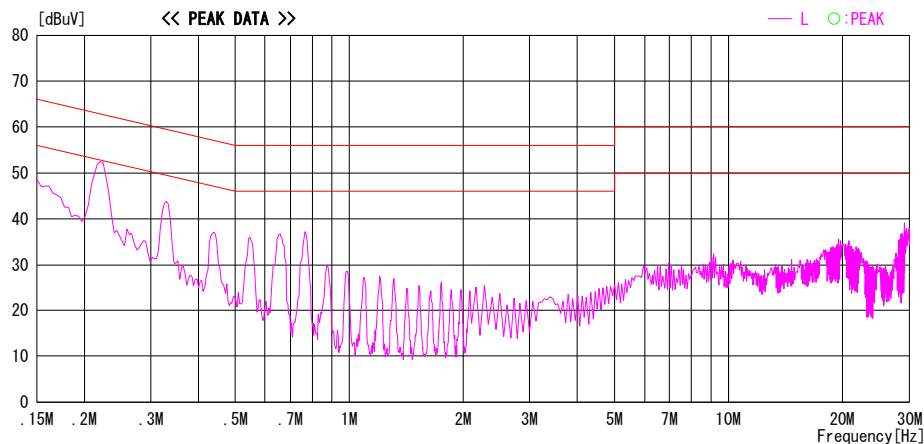
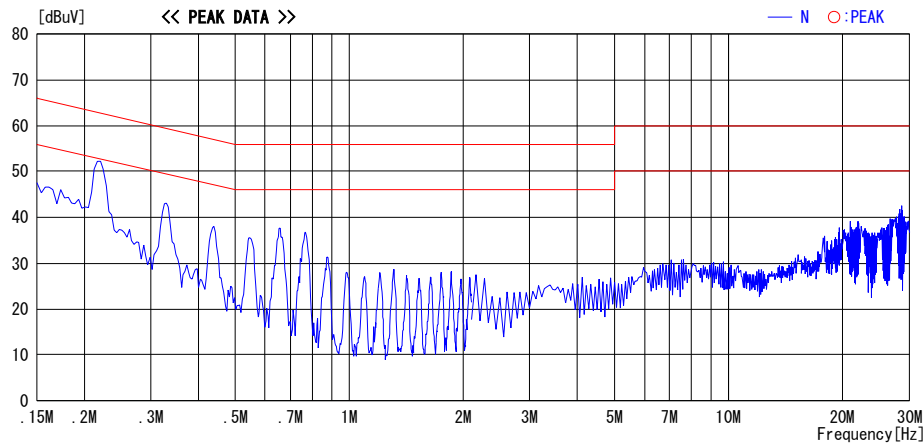


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C.F (L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission
11a Rx, 5765MHz
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11a Rx 5765MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

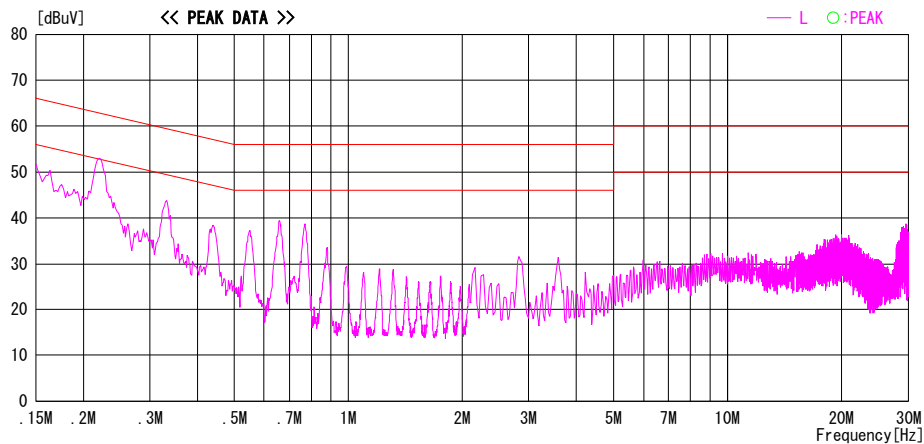
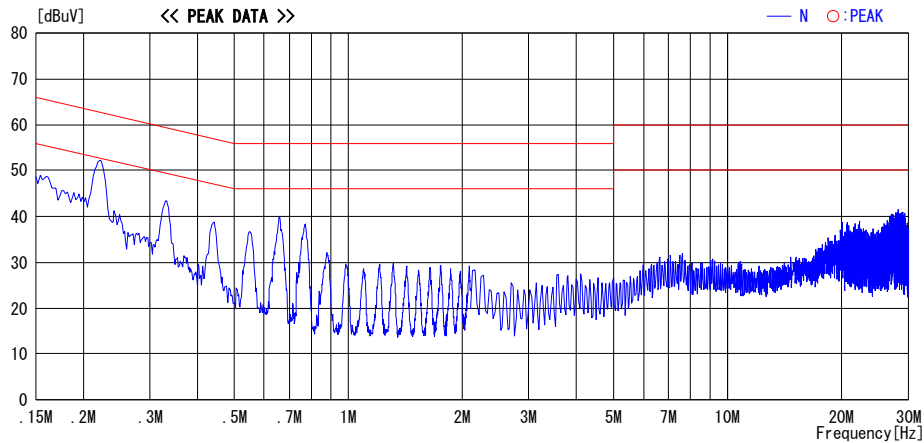


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

26dB Emission Bandwidth

UL Japan, Inc.

Head Office EMC Lab. No.4 Measurement room

Company	NEC Corporation	Regulation	FCC Section 15.407(a)(1)(2)(3) / RSS-210 A9.2(1)(2)(3)
Equipment	Factory Computer FC-NOTE series	Test Distance	-
Model	FC-N21S/BY5SS	Date	08/16/2007
S/N	S760538MA	Temperature	25 deg.C.
Power	AC 120V / 60Hz	Humidity	64 %
Mode	11a, Transmitting (Tx), 12Mbps, Main ANT	Engineer	Kenichi Adachi

Ch	Freq. [MHz]	26dB Bandwidth [MHz]	Limit [MHz]
36	5180.0	22.960	-
52	5260.0	22.691	-
64	5320.0	22.724	-
149	5745.0	23.285	-
153	5765.0	22.312	-
161	5805.0	23.152	-

UL Japan, Inc.

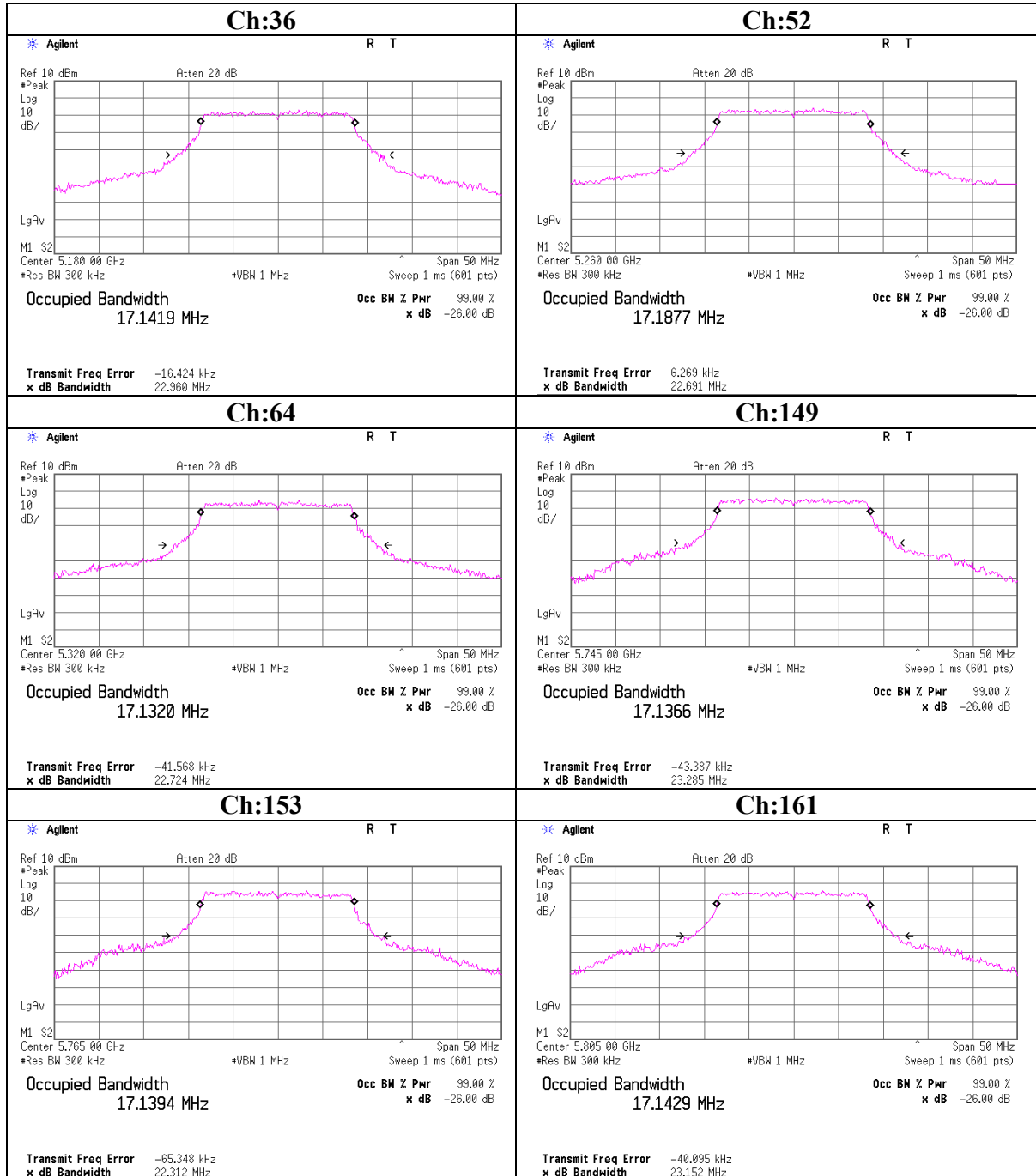
Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

26dB Emission Bandwidth



Maximum Peak Output Power

UL Japan, Inc.

Head Office EMC Lab. No.4 Measurement room

Company NEC Corporation
Equipment Factory Computer FC-NOTE series
Model FC-N21S/BY5SS
S/N S760538MA
Power AC 120V / 60Hz
Mode 11a, Transmitting (Tx), 12Mbps,
Main ANT
(Reference: Ant: Aux)

Regulation FCC Section 15.407(a)(1)(2)(3) / RSS-210 A9.2(1)(2)(3)
Test Distance -
Date 08/16/2007
Temperature 25 deg.C.
Humidity 64 %

Engineer Kenichi Adachi

ANT:Main (Worst), 12Mbps (Worst)

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
36	5180.0	2.21	1.30	10.09	13.60	17.00	3.40
52	5260.0	2.89	1.29	10.08	14.26	17.00	2.74
64	5320.0	3.90	1.28	10.08	15.26	17.00	1.74
149	5745.0	5.33	1.36	10.07	16.76	30.00	13.24
153	5765.0	5.08	1.37	10.06	16.51	30.00	13.49
161	5805.0	4.87	1.38	10.06	16.31	30.00	13.69

ANT:Aux (Reference), 12Mbps

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
36	5180.0	2.10	1.30	10.09	13.49	17.00	3.51
52	5260.0	2.70	1.29	10.08	14.07	17.00	2.93
64	5320.0	3.30	1.28	10.08	14.66	17.00	2.34
149	5745.0	4.83	1.36	10.07	16.26	30.00	13.74
153	5765.0	4.48	1.37	10.06	15.91	30.00	14.09
161	5805.0	4.00	1.38	10.06	15.44	30.00	14.56

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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

Reference data

ANT:Main (Worst), 5260MHz

Rate [Mbps]	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
6	5260.0	2.55	1.29	10.08	13.92	17.00	3.08
9	5260.0	2.61	1.29	10.08	13.98	17.00	3.02
12	5260.0	2.89	1.29	10.08	14.26	17.00	2.74
18	5260.0	2.83	1.29	10.08	14.20	17.00	2.80
24	5260.0	2.67	1.29	10.08	14.04	17.00	2.96
36	5260.0	2.58	1.29	10.08	13.95	17.00	3.05
48	5260.0	2.89	1.29	10.08	14.26	17.00	2.74
54	5260.0	1.36	1.29	10.08	12.73	17.00	4.27

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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

* Ant: Aux's data and Main's Rate 6M,9M,18M,24M,36M,48M,54Mbps's data are a preliminary test data (reference data).

* Preliminary test only 5260MHz since this Wireless Module consists of one chip each of 2.4GHz band and all 5GHz band.

* Power levels at 12Mbps and 48Mbps were the same, but worst rate, 12Mbps was selected, which had the higher Duty cycle.

Reference data for SAR test (Average power of SAR)

ANT:Main, 6Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
36	5180.0	1.90	1.30	10.09	13.29

ANT:Aux, 12Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
36	5180.0	0.97	1.30	10.09	12.36

ANT:Main, 6Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
149	5745.0	3.67	1.36	10.07	15.10

ANT:Aux, 6Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]
149	5745.0	3.48	1.36	10.07	14.91

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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

UL Japan, Inc.

Head Office EMC Lab.

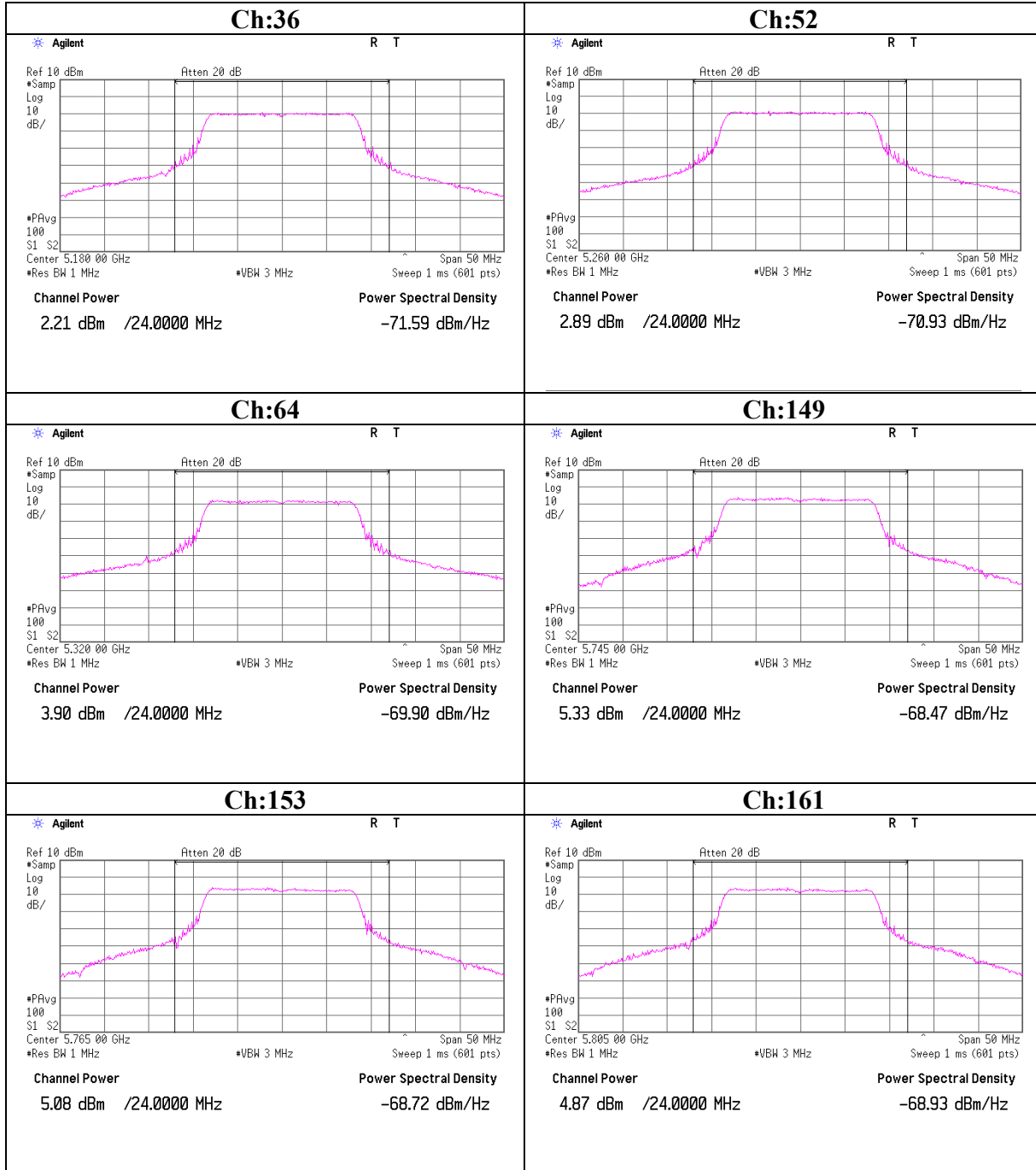
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

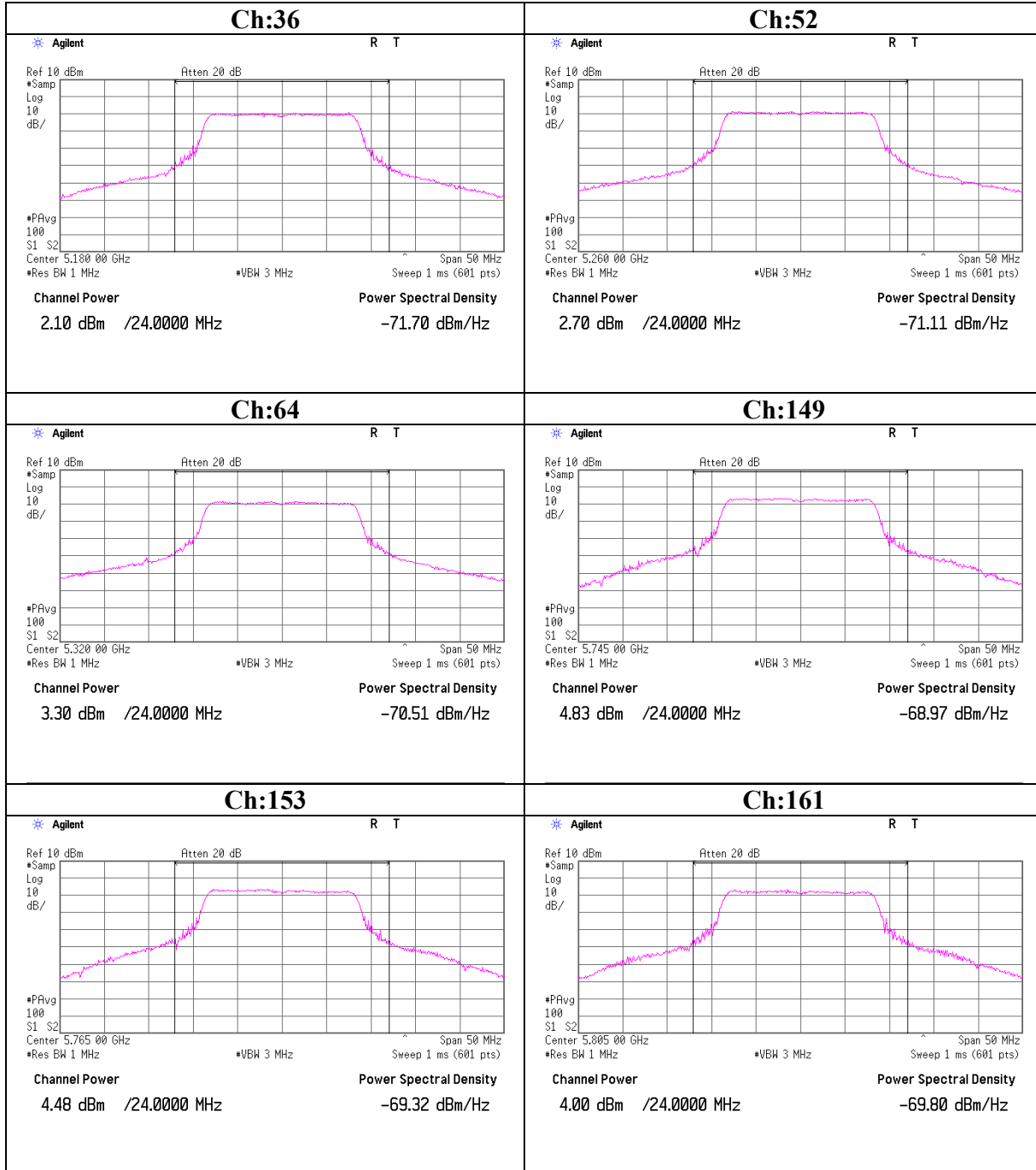
Maximum Peak Output Power

ANT: Main



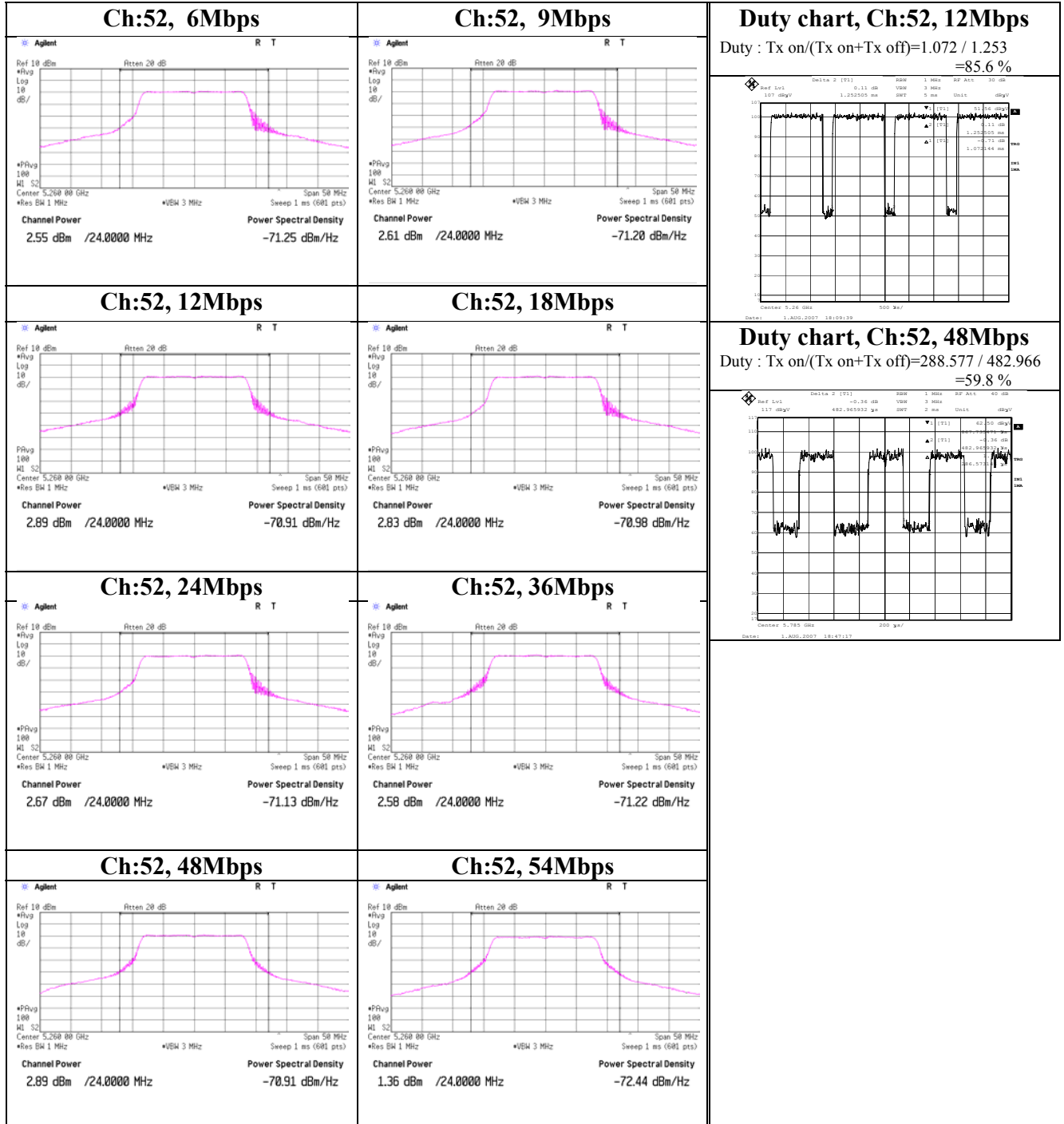
Maximum Peak Output Power (Reference data)

ANT: Aux



Maximum Peak Output Power (Reference data)

ANT: Main



Radiated Spurious Emission (below 1GHz)

11a Tx, 5180MHz

DATA OF RADIATED EMISSION TEST

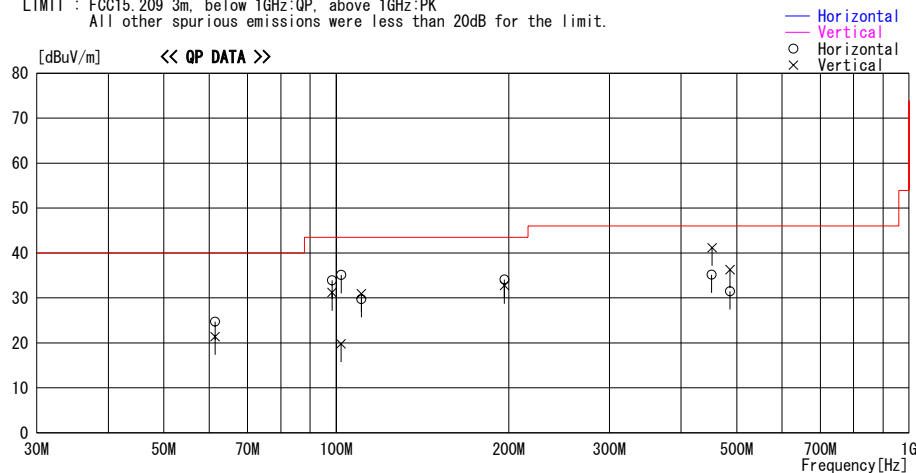
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/08

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-HO
Power : AC120V / 60Hz
Temp./Humi. : 27deg. C. / 62%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5180MHz 12Mbps MainANT

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	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	Margin
			Factor [dB/m]	Gain [dB]					[dBuV/m]	[dB]
61.447	33.6	QP	8.2	-20.4	21.4	90	100	Vert.	40.0	18.6
61.447	36.9	QP	8.2	-20.4	24.7	111	378	Hori.	40.0	15.3
98.315	43.8	QP	9.7	-19.6	33.9	204	332	Hori.	43.5	9.6
98.323	41.1	QP	9.7	-19.6	31.2	114	100	Vert.	43.5	12.3
101.964	28.9	QP	10.4	-19.5	19.8	8	100	Vert.	43.5	23.7
102.021	44.2	QP	10.4	-19.5	35.1	259	311	Hori.	43.5	8.4
110.598	38.8	QP	11.6	-19.4	31.0	137	117	Vert.	43.5	12.6
110.609	37.5	QP	11.6	-19.4	29.7	228	124	Hori.	43.5	13.8
196.617	33.4	QP	17.4	-18.0	32.8	18	114	Vert.	43.5	10.8
196.624	34.7	QP	17.4	-18.0	34.1	186	100	Hori.	43.5	9.4
451.915	34.4	QP	17.3	-16.5	35.2	283	175	Hori.	46.0	10.9
452.830	40.3	QP	17.4	-16.5	41.2	15	100	Vert.	46.0	4.8
486.827	29.8	QP	18.1	-16.4	31.5	76	100	Hori.	46.0	14.5
486.830	34.6	QP	18.1	-16.4	36.3	218	100	Vert.	46.0	9.7

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

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

Test report No. : 27LE0180-YK-B-R1
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Issued date : September 12, 2007
Revised date : October 29, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)

11a Tx, 5260MHz

DATA OF RADIATED EMISSION TEST

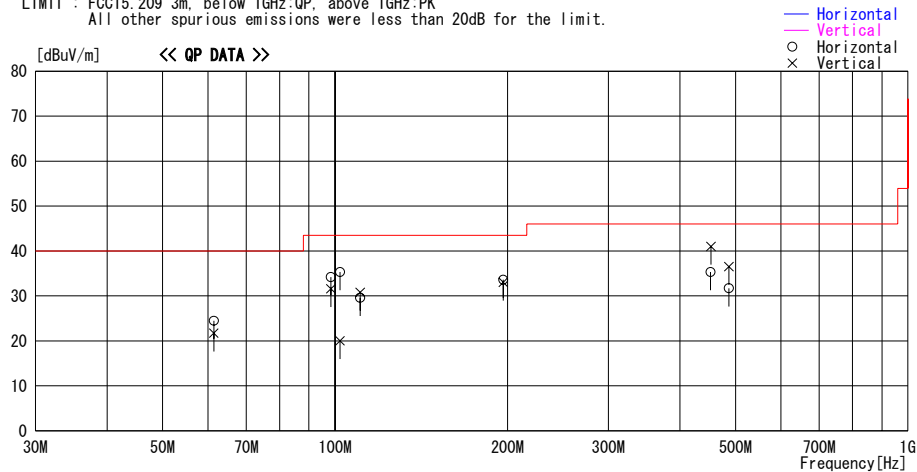
UL Japan, Inc. Head Office EMC Lab. No. 1 Semi Anechoic Chamber
Date : 2007/08/08

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-H0
Power : AC120V / 60Hz
Temp./Humi. : 27deg. C. / 62%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5260MHz 12Mbps MainANT

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	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
61.423	33.9	QP	8.2	-20.4	21.7	90	100	Vert.	40.0	18.3
61.457	36.7	QP	8.2	-20.4	24.5	111	378	Hori.	40.0	15.5
98.333	44.1	QP	9.7	-19.6	34.2	204	332	Hori.	43.5	9.3
98.344	41.5	QP	9.7	-19.6	31.6	114	100	Vert.	43.5	11.9
102.003	29.1	QP	10.4	-19.5	20.0	8	100	Vert.	43.5	23.5
102.071	44.4	QP	10.4	-19.5	35.3	259	311	Hori.	43.5	8.2
110.613	38.6	QP	11.6	-19.4	30.8	137	117	Vert.	43.5	12.7
110.622	37.3	QP	11.7	-19.4	29.6	228	124	Hori.	43.5	13.9
196.646	33.6	QP	17.4	-18.0	33.0	18	114	Vert.	43.5	10.5
196.644	34.2	QP	17.4	-18.0	33.6	186	100	Hori.	43.5	9.9
451.911	34.5	QP	17.3	-16.5	35.3	283	175	Hori.	46.0	10.7
452.842	40.1	QP	17.4	-16.5	41.0	15	100	Vert.	46.0	5.0
486.846	30.0	QP	18.1	-16.4	31.7	76	100	Hori.	46.0	14.3
486.821	34.8	QP	18.1	-16.4	36.5	218	100	Vert.	46.0	9.5

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 round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Test report No. : 27LE0180-YK-B-R1
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Issued date : September 12, 2007
Revised date : October 29, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)

11a Tx, 5320MHz

DATA OF RADIATED EMISSION TEST

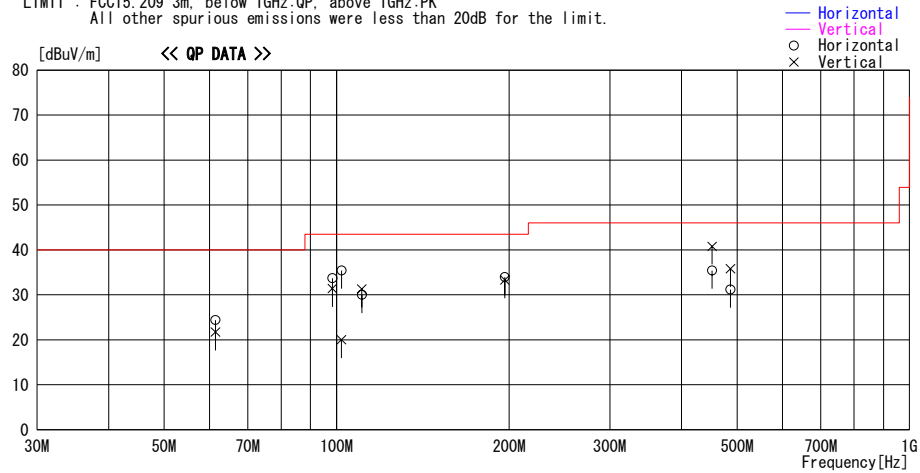
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/08

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-H0
Power : AC120V / 60Hz
Temp./Humi. : 27deg.C. / 62%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5320MHz 12Mbps MainANT

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	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
61.451	33.9	QP	8.2	-20.4	21.7	90	100	Vert.	40.0	18.3
61.444	36.6	QP	8.2	-20.4	24.4	111	378	Hori.	40.0	15.6
98.335	43.6	QP	9.7	-19.6	33.7	204	332	Hori.	43.5	9.8
98.330	41.3	QP	9.7	-19.6	31.4	114	100	Vert.	43.5	12.1
101.923	29.1	QP	10.4	-19.5	20.0	8	100	Vert.	43.5	23.5
102.032	44.5	QP	10.4	-19.5	35.4	259	311	Hori.	43.5	8.1
110.563	39.1	QP	11.6	-19.4	31.3	137	117	Vert.	43.5	12.2
110.644	37.7	QP	11.7	-19.4	30.0	228	124	Hori.	43.5	13.5
196.644	33.9	QP	17.4	-18.0	33.3	18	114	Vert.	43.5	10.2
196.622	34.5	QP	17.4	-18.0	33.9	186	100	Hori.	43.5	9.6
451.924	34.6	QP	17.3	-16.5	35.4	283	175	Hori.	46.0	10.6
452.140	40.0	QP	17.3	-16.5	40.8	15	100	Vert.	46.0	5.2
486.798	29.5	QP	18.1	-16.4	31.2	76	100	Hori.	46.0	14.8
486.783	34.1	QP	18.1	-16.4	35.8	218	100	Vert.	46.0	10.2

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 round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Test report No. : 27LE0180-YK-B-R1
Page : 35 of 78
Issued date : September 12, 2007
Revised date : October 29, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)

11a Tx, 5745MHz

DATA OF RADIATED EMISSION TEST

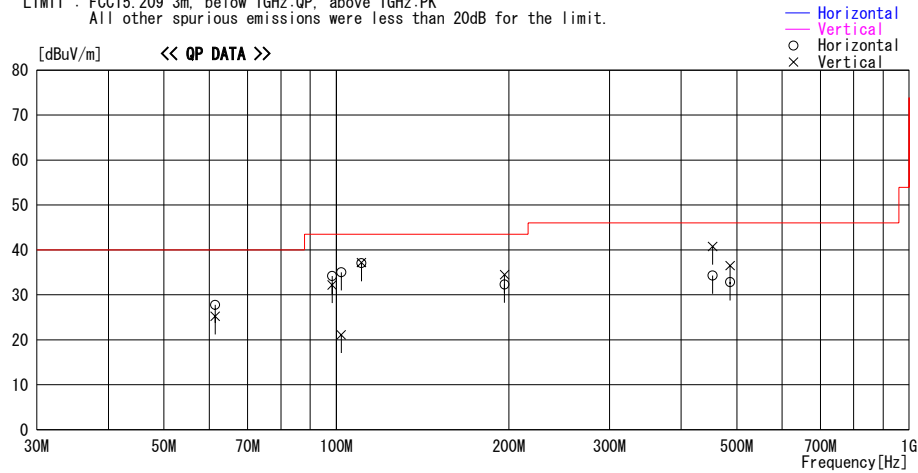
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 23deg.C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5745MHz 12Mbps MainANT

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



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
61.446	37.5	QP	8.2	-20.4	25.3	90	100	Vert.	40.0	14.7
61.456	40.0	QP	8.2	-20.4	27.8	111	375	Hori.	40.0	12.2
98.320	44.1	QP	9.7	-19.6	34.2	24	332	Hori.	43.5	9.3
98.319	42.1	QP	9.7	-19.6	32.2	114	110	Vert.	43.5	11.3
102.003	30.2	QP	10.4	-19.5	21.1	8	100	Vert.	43.5	22.4
102.017	44.1	QP	10.4	-19.5	35.0	261	313	Hori.	43.5	8.5
110.615	45.0	QP	11.6	-19.4	37.2	143	117	Vert.	43.5	6.3
110.600	44.9	QP	11.6	-19.4	37.1	230	146	Hori.	43.5	6.5
196.614	35.1	QP	17.4	-18.0	34.5	180	100	Vert.	43.5	9.0
196.623	32.9	QP	17.4	-18.0	32.3	186	100	Hori.	43.5	11.2
453.618	33.3	QP	17.4	-16.4	34.3	283	175	Hori.	46.0	11.7
453.786	39.8	QP	17.4	-16.4	40.8	15	100	Vert.	46.0	5.2
486.836	31.1	QP	18.1	-16.4	32.8	76	100	Hori.	46.0	13.2
486.826	34.8	QP	18.1	-16.4	36.5	218	100	Vert.	46.0	9.5

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 round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)

11a Tx, 5765MHz

DATA OF RADIATED EMISSION TEST

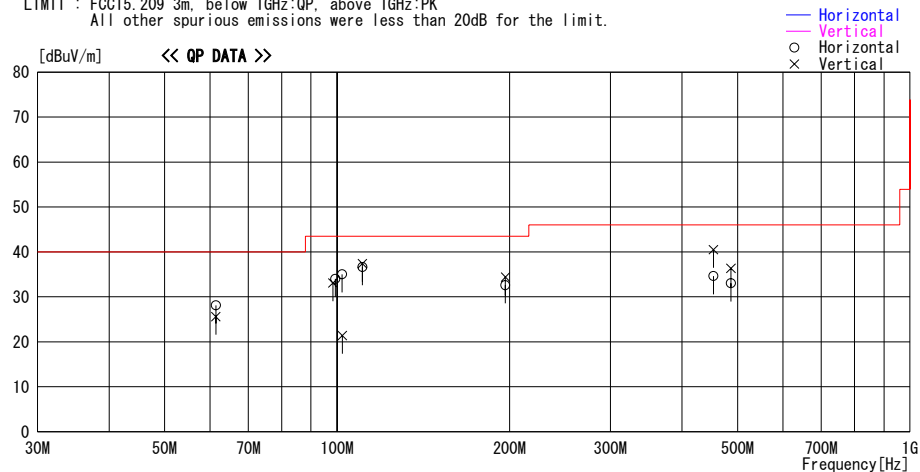
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 23deg. C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5765MHz 12Mbps MainANT

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	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	Margin
			Factor [dB/m]	Gain [dB]					[dBuV/m]	[dB]
61.437	37.8	QP	8.2	-20.4	25.6	90	100	Vert.	40.0	14.4
61.433	40.3	QP	8.2	-20.4	28.1	111	375	Hori.	40.0	11.9
99.344	43.7	QP	9.9	-19.6	34.0	24	332	Hori.	43.5	9.5
98.355	43.0	QP	9.7	-19.6	33.1	114	110	Vert.	43.5	10.4
102.110	30.5	QP	10.4	-19.5	21.4	8	100	Vert.	43.5	22.1
102.023	44.1	QP	10.4	-19.5	35.0	261	313	Hori.	43.5	8.5
110.632	45.1	QP	11.7	-19.4	37.4	143	117	Vert.	43.5	6.1
110.624	44.3	QP	11.7	-19.4	36.6	230	146	Hori.	43.5	6.9
196.671	35.0	QP	17.4	-18.0	34.4	180	100	Vert.	43.5	9.1
196.641	33.2	QP	17.4	-18.0	32.6	186	100	Hori.	43.5	10.9
453.633	33.6	QP	17.4	-16.4	34.6	283	175	Hori.	46.0	11.4
453.689	39.5	QP	17.4	-16.4	40.5	15	100	Vert.	46.0	5.5
486.766	31.3	QP	18.1	-16.4	33.0	76	100	Hori.	46.0	13.0
486.745	34.6	QP	18.1	-16.4	36.3	218	100	Vert.	46.0	9.7

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

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

Radiated Spurious Emission (below 1GHz)

11a Tx, 5805MHz

DATA OF RADIATED EMISSION TEST

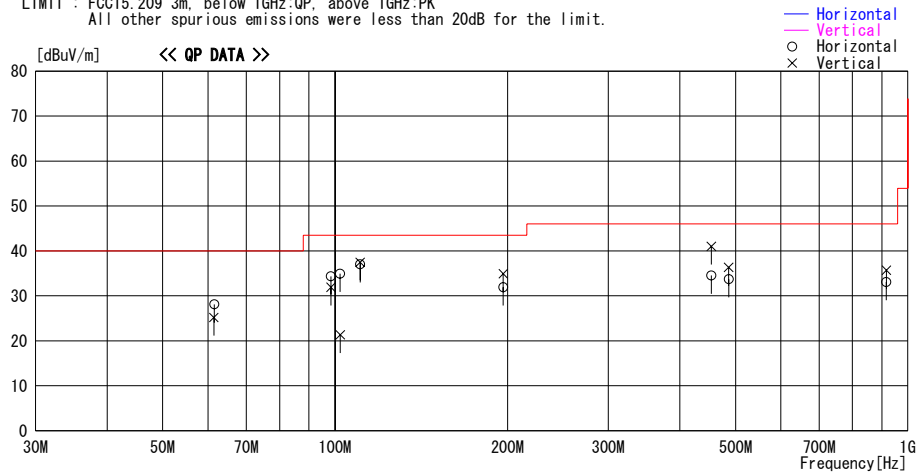
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 23deg.C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Tx 5805MHz 12Mbps MainANT

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



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]
61.434	37.4	QP	8.2	-20.4	25.2	90	100	Vert.	40.0	14.8
61.554	40.4	QP	8.1	-20.4	28.1	111	375	Hori.	40.0	11.9
98.363	44.2	QP	9.7	-19.6	34.3	24	332	Hori.	43.5	9.2
98.402	41.8	QP	9.7	-19.6	31.9	114	110	Vert.	43.5	11.6
102.131	30.4	QP	10.4	-19.5	21.3	8	100	Vert.	43.5	22.2
102.090	44.0	QP	10.4	-19.5	34.9	261	313	Hori.	43.5	8.6
110.582	45.3	QP	11.6	-19.4	37.5	143	117	Vert.	43.5	6.0
110.621	44.7	QP	11.7	-19.4	37.0	230	146	Hori.	43.5	6.5
196.582	35.5	QP	17.4	-18.0	34.9	180	100	Vert.	43.5	8.6
196.662	32.5	QP	17.4	-18.0	31.9	186	100	Hori.	43.5	11.6
453.578	33.5	QP	17.4	-16.4	34.5	283	175	Hori.	46.0	11.5
453.633	40.0	QP	17.4	-16.4	41.0	15	100	Vert.	46.0	5.0
486.798	32.0	QP	18.1	-16.4	33.7	76	100	Hori.	46.0	12.3
486.642	34.6	QP	18.1	-16.4	36.3	218	100	Vert.	46.0	9.7
916.329	24.4	QP	21.9	-13.2	33.1	245	100	Hori.	46.0	12.9
917.242	26.8	QP	22.0	-13.1	35.7	204	100	Vert.	46.0	10.3

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Test report No. : 27LE0180-YK-B-R1
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Issued date : September 12, 2007
Revised date : October 29, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)

11a Rx, 5260MHz

DATA OF RADIATED EMISSION TEST

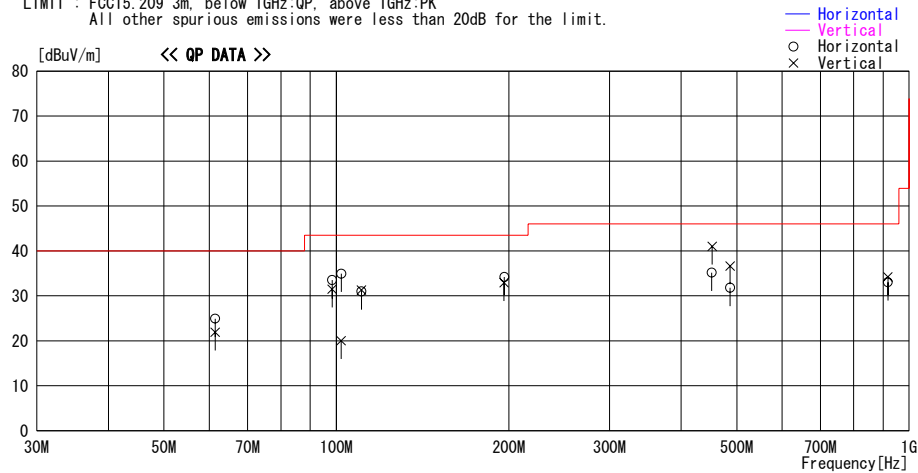
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/08

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE seires
Model No. : FC-N21S/BY5SS
Serial No. : S7605328MA

Report No. : 27LE0180-H0
Power : AC120V / 60Hz
Temp./Humi. : 27deg.C. / 62%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Rx 5260MHz 12Mbps MainANT

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



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
61.443	34.1	QP	8.2	-20.4	21.9	90	100	Vert.	40.0	18.1
61.422	37.1	QP	8.2	-20.4	24.9	111	378	Hori.	40.0	15.1
98.312	43.4	QP	9.7	-19.6	33.5	204	332	Hori.	43.5	10.0
98.341	41.4	QP	9.7	-19.6	31.5	114	100	Vert.	43.5	12.0
101.981	29.1	QP	10.4	-19.5	20.0	8	100	Vert.	43.5	23.5
102.002	44.0	QP	10.4	-19.5	34.9	259	311	Hori.	43.5	8.6
110.620	39.0	QP	11.7	-19.4	31.3	137	117	Vert.	43.5	12.2
110.611	38.8	QP	11.6	-19.4	31.0	228	124	Hori.	43.5	12.5
196.242	33.6	QP	17.3	-18.0	32.9	18	114	Vert.	43.5	10.6
196.421	34.9	QP	17.3	-18.0	34.2	186	100	Hori.	43.5	9.3
451.872	34.3	QP	17.3	-16.5	35.1	283	175	Hori.	46.0	10.9
452.730	40.1	QP	17.4	-16.5	41.0	15	100	Vert.	46.0	5.0
486.733	30.1	QP	18.1	-16.4	31.8	76	100	Hori.	46.0	14.2
486.833	34.9	QP	18.1	-16.4	36.6	218	100	Vert.	46.0	9.4
917.442	24.1	QP	22.0	-13.1	33.0	0	100	Hori.	46.0	13.0
917.442	25.3	QP	22.0	-13.1	34.2	260	100	Vert.	46.0	11.8

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

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (below 1GHz)

11a Rx, 5765MHz

DATA OF RADIATED EMISSION TEST

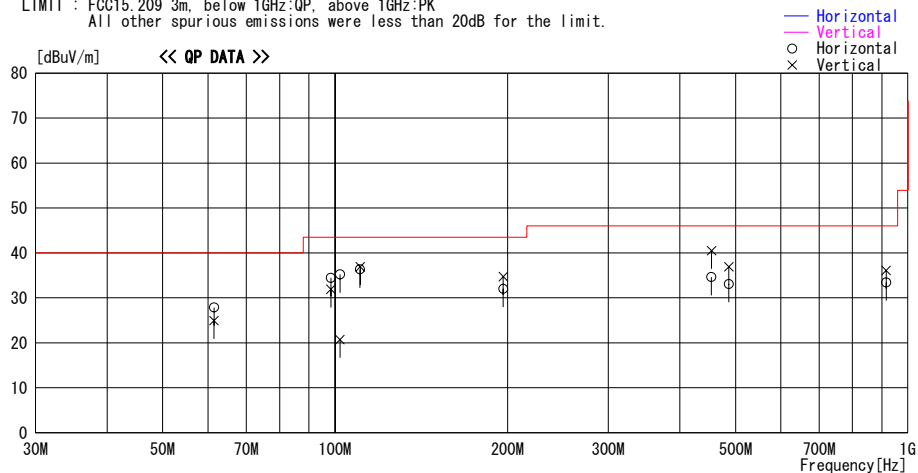
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 23deg.C. / 60%
Operator : Hisayoshi Sato

Mode / Remarks : 11a Rx 5765MHz 12Mbps MainANT

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



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]
61.464	37.2	QP	8.1	-20.4	24.9	90	100	Vert.	40.0	15.1
61.490	40.2	QP	8.1	-20.4	27.9	111	375	Hori.	40.0	12.1
98.343	44.3	QP	9.7	-19.6	34.4	24	332	Hori.	43.5	9.1
98.346	41.8	QP	9.7	-19.6	31.9	114	110	Vert.	43.5	11.6
102.015	29.8	QP	10.4	-19.5	20.7	8	100	Vert.	43.5	22.8
102.033	44.3	QP	10.4	-19.5	35.2	261	313	Hori.	43.5	8.3
110.638	44.6	QP	11.7	-19.4	36.9	143	117	Vert.	43.5	6.6
110.468	44.1	QP	11.6	-19.4	36.3	230	146	Hori.	43.5	7.2
196.642	35.3	QP	17.4	-18.0	34.7	180	100	Vert.	43.5	8.8
196.598	32.6	QP	17.4	-18.0	32.0	186	100	Hori.	43.5	11.5
453.656	33.6	QP	17.4	-16.4	34.6	283	175	Hori.	46.0	11.4
453.803	39.5	QP	17.4	-16.4	40.5	15	100	Vert.	46.0	5.5
486.844	31.4	QP	18.1	-16.4	33.1	76	100	Hori.	46.0	12.9
486.813	35.2	QP	18.1	-16.4	36.9	218	100	Vert.	46.0	9.1
916.381	24.6	QP	21.9	-13.1	33.4	225	110	Hori.	46.0	12.6
916.388	27.3	QP	21.9	-13.1	36.1	13	100	Vert.	46.0	9.9

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

Test report No. : 27LE0180-YK-B-R1
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FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)
11a Tx, 5180MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation
EQUIPMENT : Factory Computer FC-NOTE series
MODEL : FC-N21S / BY5SS
SAMPLE NO. : S760538MA
POWER : AC 120 V / 60 Hz
MODE : 11a Tx CH36:5180MHz 12Mbps Main ANT
POSITION : Hor X, Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3
TEST DISTANCE : 3m / 1m / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

PK DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	15540.0	51.0	48.8	38.4	36.3	7.3	0.6	51.5	49.3	73.9	22.4	24.6
2	20720.0	47.0	46.8	37.6	31.9	8.2	0.0	51.4	51.2	73.9	22.5	22.7
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	25900.0	NS	NS	-	-	-	-	-	-	73.9	-	-
4	31080.0	NS	NS	-	-	-	-	-	-	73.9	-	-

AV DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	15540.0	36.0	34.9	38.4	36.3	7.3	0.6	36.5	35.4	53.9	17.4	18.5
2	20720.0	32.3	32.3	37.6	31.9	8.2	0.0	36.7	36.7	53.9	17.2	17.2
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	25900.0	NS	NS	-	-	-	-	-	-	53.9	-	-
4	31080.0	NS	NS	-	-	-	-	-	-	53.9	-	-

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

9.5 dB

Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5)$ =

15.5 dB

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

* NS: No detect signal.

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

*The limit is rounded down to one decimal place.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Test report No. : 27LE0180-YK-B-R1
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Issued date : September 12, 2007
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FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)
11a Tx, 5260MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation
EQUIPMENT : Factory Computer FC-NOTE series
MODEL : FC-N21S / BY5SS
SAMPLE NO. : S760538MA
POWER : AC 120 V / 60 Hz
MODE : 11a Tx CH52:5260MHz 12Mbps Main ANT
POSITION : Hor X , Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3
TEST DISTANCE : 3m / 1m / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

PK DETECT

No.	Freq. [MHz]	Reading HOR VER [dBuV]		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result HOR VER [dBuV/m]		Limit PK [dBuV/m]	Margin HOR VER [dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	15780.0	47.2	48.4	37.7	36.2	7.5	0.6	47.3	48.5	73.9	26.6	25.4
2	21040.0	46.5	46.6	37.6	32.0	8.3	0.0	50.9	51.0	73.9	23.0	22.9
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)												
3	31560.0	NS	NS	-	-	-	-	-	-	73.9	-	-

AV DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin		
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER [dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)													
0	-	-	-	-	-	-	-	-	-	53.9	-	-	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac													
1	15780.0	33.8	35.4	37.7	36.2	7.5	0.6	33.9	35.5	53.9	20.0	18.4	
2	21040.0	32.1	32.2	37.6	32.0	8.3	0.0	36.5	36.6	53.9	17.4	17.3	
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)													
3	31560.0	NS	NS	-	-	-	-	-	-	53.9	-	-	

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

9.5 dB

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) =

15.5 dB

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

* NS: No detect signal.

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

*The limit is rounded down to one decimal place.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Test report No. : 27LE0180-YK-B-R1
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Radiated Spurious Emission (above 1GHz:Inside of the restricted band)
11a Tx, 5320MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation
EQUIPMENT : Factory Computer FC-NOTE series
MODEL : FC-N21S / BY5SS
SAMPLE NO. : S760538MA
POWER : AC 120 V / 60 Hz
MODE : 11a Tx CH64:5320MHz 12Mbps Main ANT
POSITION : Hor X , Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3
TEST DISTANCE : 3m / 1m / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

PK DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dB]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	10640.0	51.0	54.2	39.9	36.6	5.5	0.0	50.3	53.5	73.9	23.6	20.4
2	15960.0	47.0	49.1	37.2	36.2	7.6	0.0	46.1	48.2	73.9	27.8	25.7
3	21280.0	46.4	46.1	37.8	31.8	8.3	0.0	51.2	50.9	73.9	22.7	23.0
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	26600.0	NS	NS	-	-	-	-	-	-	73.9	-	-
5	31920.0	NS	NS	-	-	-	-	-	-	73.9	-	-

AV DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	10640.0	33.3	40.2	39.9	36.6	5.5	0.0	32.6	39.5	53.9	21.3	14.4
2	15960.0	33.8	35.1	37.2	36.2	7.6	0.0	32.9	34.2	53.9	21.0	19.7
3	21280.0	32.0	32.1	37.8	31.8	8.3	0.0	36.8	36.9	53.9	17.1	17.0
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	26600.0	NS	NS	-	-	-	-	-	-	53.9	-	-
5	31920.0	NS	NS	-	-	-	-	-	-	53.9	-	-

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

Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5) =$ 15.5 dB

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

* NS: No detect signal.

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

*The limit is rounded down to one decimal place.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

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FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)
11a Tx, 5745MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation
EQUIPMENT : Factory Computer FC-NOTE series
MODEL : FC-N21S / BY5SS
SAMPLE NO. : S760538MA
POWER : AC 120 V / 60 Hz
MODE : 11a Tx CH149:5745MHz 12Mbps Main ANT
POSITION : Hor X, Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3
TEST DISTANCE : 3m / 1m / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

PK DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [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 + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11490.0	49.8	52.6	40.2	36.4	5.9	1.0	51.0	53.8	73.9	22.9	20.1
2	22980.0	46.9	46.8	38.7	31.4	8.8	0.0	53.5	53.4	73.9	20.4	20.5
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	28725.0	NS	NS	-	-	-	-	-	-	73.9	-	-

AV DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [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 + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11490.0	32.7	36.7	40.2	36.4	5.9	1.0	33.9	37.9	53.9	20.0	16.0
2	22980.0	32.5	32.6	38.7	31.4	8.8	0.0	39.1	39.2	53.9	14.8	14.7
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	28725.0	NS	NS	-	-	-	-	-	-	53.9	-	-

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

9.5 dB

Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5) =$

15.5 dB

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

* NS: No detect signal.

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

*The limit is rounded down to one decimal place.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

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Radiated Spurious Emission (above 1GHz:Inside of the restricted band)
11a Tx, 5765MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation
EQUIPMENT : Factory Computer FC-NOTE series
MODEL : FC-N21S / BY5SS
SAMPLE NO. : S760538MA
POWER : AC 120 V / 60 Hz
MODE : 11a Tx CH153:5765MHz 12Mbps Main ANT
POSITION : Hor X, Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3
TEST DISTANCE : 3m / 1m / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg C 25deg C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

PK DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	50.8	51.0	40.1	36.4	5.9	1.0	51.9	52.1	73.9	22.0	21.8
2	23060.0	47.4	46.9	38.7	31.4	8.8	0.0	54.0	53.5	73.9	19.9	20.4
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	28825.0	NS	NS	-	-	-	-	-	-	73.9	-	-

AV DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [dBuV/m]	Margin	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	35.0	34.7	40.1	36.4	5.9	1.0	36.1	35.8	53.9	17.8	18.1
2	23060.0	32.7	32.7	38.7	31.4	8.8	0.0	39.3	39.3	53.9	14.6	14.6
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
3	28825.0	NS	NS	-	-	-	-	-	-	53.9	-	-

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.5 \text{ dB}$
Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5) = 15.5 \text{ dB}$

- * Except for the above table : All other spurious emissions were less than 20dB for the limit.
- * NS: No detect signal.
- * In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- *The limit is rounded down to one decimal place.
- *The test result is round off to one or two decimal places, so some differences might be observed.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

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Radiated Spurious Emission (above 1GHz:Inside of the restricted band)
11a Tx, 5805MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation
EQUIPMENT : Factory Computer FC-NOTE series
MODEL : FC-N21S / BY5SS
SAMPLE NO. : S760538MA
POWER : AC 120 V / 60 Hz
MODE : 11a Tx CH161:5805MHz 12Mbps Main ANT
POSITION : Hor X , Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3
TEST DISTANCE : 3m / 1m / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

PK DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit PK [dBuV/m]	Margin	
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11610.0	50.6	54.6	40.0	36.4	5.9	1.0	51.6	55.6	73.9	22.3	18.3
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
2	29025.0	NS	NS	-	-	-	-	-	-	73.9	-	-

AV DETECT

No.	Freq. [MHz]	Reading		Ant. Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	Atten. or Filter [dB]	Result		Limit AV [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 + Attenuator (or Filter)												
0	-	-	-	-	-	-	-	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11610.0	34.6	38.0	40.0	36.4	5.9	1.0	35.6	39.0	53.9	18.3	14.9
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
2	29025.0	NS	NS	-	-	-	-	-	-	53.9	-	-

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.5 dB

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

* NS: No detect signal.

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

*The limit is rounded down to one decimal place.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***used conversion formula**

11a Tx, 5180MHz

Company	NEC Corporation	UL Japan, Inc.
Equipment	Factory Computer FC-NOTE series	Head Office EMC Lab. No.1 and No.3 Anechoic Chamber
Model	FC-N21S/BY5SS	Regulation FCC Part15 Subpart E 15.407 / RSS-210 A9.3
S/N	S760538MA	Test Distance 1m (above 10GHz), 0.5m (above 26.5GHz)
Power	AC 120V / 60Hz	Date 08/02/2007 08/06/2007
Mode	11a Tx 5180MHz 12Mbps Main ANT	Temperature 26deg.C 25deg.C
EUT-Axis	X-axis (Worst)	Humidity 61% 62%
		Engineer Takumi Shimada Takumi Shimada

PK detect

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	10360.00	53.5	55.0	39.5	36.6	5.4	0.9	53.2	54.7	-42.0	-40.5	-27.0	15.0	13.5
2	25900.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	31080.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
4	36260.00	48.4	48.5	41.7	27.8	16.5	0.0	63.3	63.4	-31.9	-31.8	-27.0	4.9	4.8

Result(EIRP[dBm])=10*LOG(((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) =

9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) =

15.5 dB

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

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

* NS: No detect signal.

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***used conversion formula**

11a Tx, 5260MHz

UL Japan, Inc.

Head Office EMC Lab. No.1 and No.3 Anechoic Chamber

Company NEC Corporation
Equipment Factory Computer FC-NOTE series
Model FC-N21S/BY5SS
S/N S760538MA
Power AC 120V / 60Hz
Mode 11a Tx 5260MHz 12Mbps Main ANT
EUT-Axis X-axis (Worst)

Regulation FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Test Distance 1m (above 10GHz), 0.5m (above 26.5GHz)
Date 08/02/2007 08/06/2007
Temperature 26deg.C 25deg.C
Humidity 61% 62%
Engineer Takumi Shimada Takumi Shimada

PK detect

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	10520.00	50.2	52.1	39.8	36.6	5.5	0.9	50.3	52.2	-44.9	-43.0	-27.0	17.9	16.0
2	26300.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	36820.00	48.8	47.7	42.0	27.7	16.9	0.0	64.5	63.4	-30.7	-31.8	-27.0	3.7	4.8

Result(EIRP[dBm])=10*LOG(({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) =

9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) =

15.5 dB

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

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

* NS: No detect signal.

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***used conversion formula**

11a Tx, 5320MHz

UL Japan, Inc.

Head Office EMC Lab. No.1 and No.3 Anechoic Chamber

Company	NEC Corporation	Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Equipment	Factory Computer FC-NOTE series	Test Distance	0.5m (above 26.5GHz)
Model	FC-N21S/BY5SS	Date	08/02/2007 08/06/2007
S/N	S760538MA	Temperature	26deg.C 25deg.C
Power	AC 120V / 60Hz	Humidity	61% 62%
Mode	11a Tx 5320MHz 12Mbps Main ANT	Engineer	Takumi Shimada Takumi Shimada
EUT-Axis	X-axis (Worst)		

PK detect

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
1	26600.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
2	31920.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
3	37240.00	47.5	47.5	42.3	27.6	17.1	0.0	63.8	63.8	-31.4	-31.4	-27.0	4.4	4.4

Result(EIRP[dBm])=10*LOG(({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

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

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

* NS: No detect signal.

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

*used conversion formula

11a Tx, 5745MHz

UL Japan, Inc.

Head Office EMC Lab. No.1 and No.3 Anechoic Chamber

Company	NEC Corporation	Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Equipment	Factory Computer FC-NOTE series	Test Distance	1m (above 10GHz), 0.5m (above 26.5GHz)
Model	FC-N21S/BY5SS	Date	08/02/2007 08/06/2007
S/N	S760538MA	Temperature	26deg.C 25deg.C
Power	AC 120V / 60Hz	Humidity	61% 62%
Mode	11a Tx 5745MHz 12Mbps Main ANT	Engineer	Takumi Shimada Takumi Shimada
EUT-Axis	X-axis (Worst)		

PK detect

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	17235.00	46.3	46.0	42.4	35.2	7.8	0.8	52.6	52.3	-42.6	-42.9	-27.0	15.6	15.9
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
2	28725.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
3	34470.00	43.1	43.0	40.5	28.2	16.4	0.0	56.3	56.2	-38.9	-39.0	-27.0	11.9	12.0

Result(EIRP[dBm])=10*LOG(({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

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

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

* NS: No detect signal.

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***used conversion formula**

11a Tx, 5765MHz

UL Japan, Inc.

Head Office EMC Lab. No.1 and No.3 Anechoic Chamber

Company NEC Corporation
Equipment Factory Computer FC-NOTE series

Regulation FCC Part15 Subpart E 15.407 / RSS-210 A9.3

Model FC-N21S/BY5SS

Test Distance 1m (above 10GHz), 0.5m (above 26.5GHz)

S/N S760538MA

Date 08/02/2007 08/06/2007

Power AC 120V / 60Hz

Temperature 26deg.C 25deg.C

Mode 11a Tx 5765MHz 12Mbps Main ANT

Humidity 61% 62%

EUT-Axis X-axis (Worst)

Engineer Takumi Shimada Takumi Shimada

PK detect

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	17295.00	47.0	45.3	43.0	35.2	7.8	0.8	53.9	52.2	-41.3	-43.0	-27.0	14.3	16.0
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
2	28825.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
3	34590.00	41.6	41.0	40.5	28.2	16.5	0.0	54.9	54.3	-40.3	-40.9	-27.0	13.3	13.9

Result(EIRP[dBm])=10*LOG(({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) =

9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) =

15.5 dB

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

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

* NS: No detect signal.

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)

***used conversion formula**

11a Tx, 5805MHz

UL Japan, Inc.

Head Office EMC Lab. No.1 and No.3 Anechoic Chamber

Company NEC Corporation

Regulation FCC Part15 Subpart E 15.407 / RSS-210 A9.3

Equipment Factory Computer FC-NOTE series

Test Distance 1m (above 10GHz), 0.5m (above 26.5GHz)

Model FC-N21S/BY5SS

Date 08/02/2007 08/06/2007

S/N S760538MA

Temperature 26deg.C 25deg.C

Power AC 120V / 60Hz

Humidity 61% 62%

Mode 11a Tx 5805MHz 12Mbps Main ANT

Engineer Takumi Shimada Takumi Shimada

EUT-Axis X-axis (Worst)

PK detect

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	17415.00	46.1	46.5	44.1	35.2	7.9	0.7	54.1	54.5	-41.1	-40.7	-27.0	14.1	13.7
2	23220.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	29025.00	NS	NS	-	-	-	-	-	-	-	-	-27.0	-	-
4	34830.00	42.3	41.6	40.7	28.1	16.6	0.0	56.0	55.3	-39.2	-39.9	-27.0	12.2	12.9

Result(EIRP[dBm])=10*LOG(({ 10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance:3[m]) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) =

9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) =

15.5 dB

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

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

* NS: No detect signal.

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

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Test report No. : 27LE0180-YK-B-R1
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Issued date : September 12, 2007
Revised date : October 29, 2007
FCC ID : BSFFC-N21S

Receiver Radiated Spurious Emission (above 1GHz)
11a Rx, 5260MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation
EQUIPMENT : Factory Computer FC-NOTE series
MODEL : FC-N21S / BY5SS
SAMPLE NO. : S760538MA
POWER : AC 120 V / 60 Hz
MODE : 11a Rx CH52:5260MHz 12Mbps Main ANT
POSITION : Hor X , Ver X-axis
PK DETECT (RBW: 1MHz, VBW: 1MHz)

REPORT NO : 27LE0180-YK
REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3
TEST DISTANCE : 3m / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5260.0	45.5	45.5	31.7	36.2	3.9	0.0	44.9	44.9	73.9	29.0	29.0
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	10520.0	43.9	44.3	39.2	32.3	5.8	0.0	41.1	41.5	73.9	32.8	32.4
3	15780.0	47.0	46.3	38.2	31.5	7.2	0.0	45.4	44.7	73.9	28.5	29.2

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5260.0	31.6	31.7	31.7	36.2	3.9	0.0	31.0	31.1	53.9	22.9	22.8
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	10520.0	30.0	30.0	39.2	32.3	5.8	0.0	27.2	27.2	53.9	26.7	26.7
3	15780.0	32.0	32.0	38.2	31.5	7.2	0.0	30.4	30.4	53.9	23.5	23.5

Test Distance 0.5m : Distance Factor(Dfac) = $20\log(3/0.5) = 15.5\text{dB}$

*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.

*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.

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Test report No. : 27LE0180-YK-B-R1
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Issued date : September 12, 2007
Revised date : October 29, 2007
FCC ID : BSFFC-N21S

Receiver Radiated Spurious Emission 11a Rx, 5765MHz

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

COMPANY : NEC Corporation EQUIPMENT : Factory Computer FC-NOTE series MODEL : FC-N21S / BY5SS SAMPLE NO. : S760538MA POWER : AC 120 V / 60 Hz MODE : 11a Rx CH153:5765MHz 12Mbps Main ANT POSITION : Hor X , Ver X-axis PK DETECT (RBW: 1MHz, VBW: 1MHz)	REPORT NO : 27LE0180-YK REGULATION : Fcc Part15 Subpart C 15.209 / RSS-210 A9.3 TEST DISTANCE : 3m / 0.5m DATE : 08/02/2007 08/06/2007 TEMPERATURE : 26deg.C 25deg.C HUMIDITY : 61% 62% ENGINEER : Takumi Shimada Takumi Shimada
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No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5765.0	45.3	44.7	32.1	36.2	4.2	0.0	45.4	44.8	73.9	28.5	29.1
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11530.0	44.8	44.5	39.7	32.4	6.4	0.0	43.0	42.7	73.9	30.9	31.2
3	17295.0	46.5	46.6	42.8	31.0	7.5	0.0	50.3	50.4	73.9	23.6	23.5

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5765.0	31.6	31.7	32.1	36.2	4.2	0.0	31.7	31.8	53.9	22.2	22.1
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11530.0	30.5	30.5	39.7	32.4	6.4	0.0	28.7	28.7	53.9	25.2	25.2
3	17295.0	32.0	32.0	42.8	31.0	7.5	0.0	35.8	35.8	53.9	18.1	18.1

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.5dB

*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.

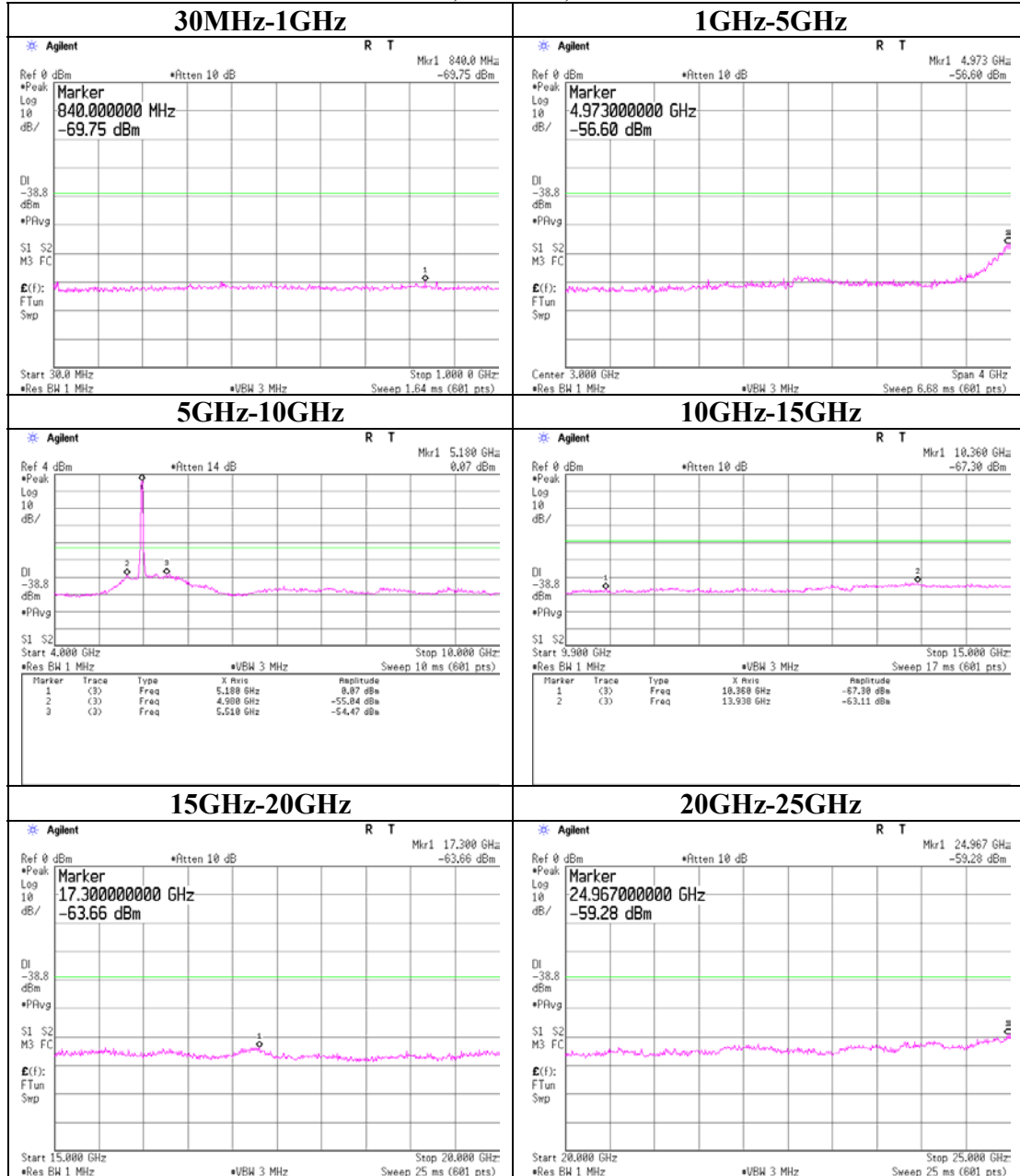
*The limit is rounded down to one decimal place.

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

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

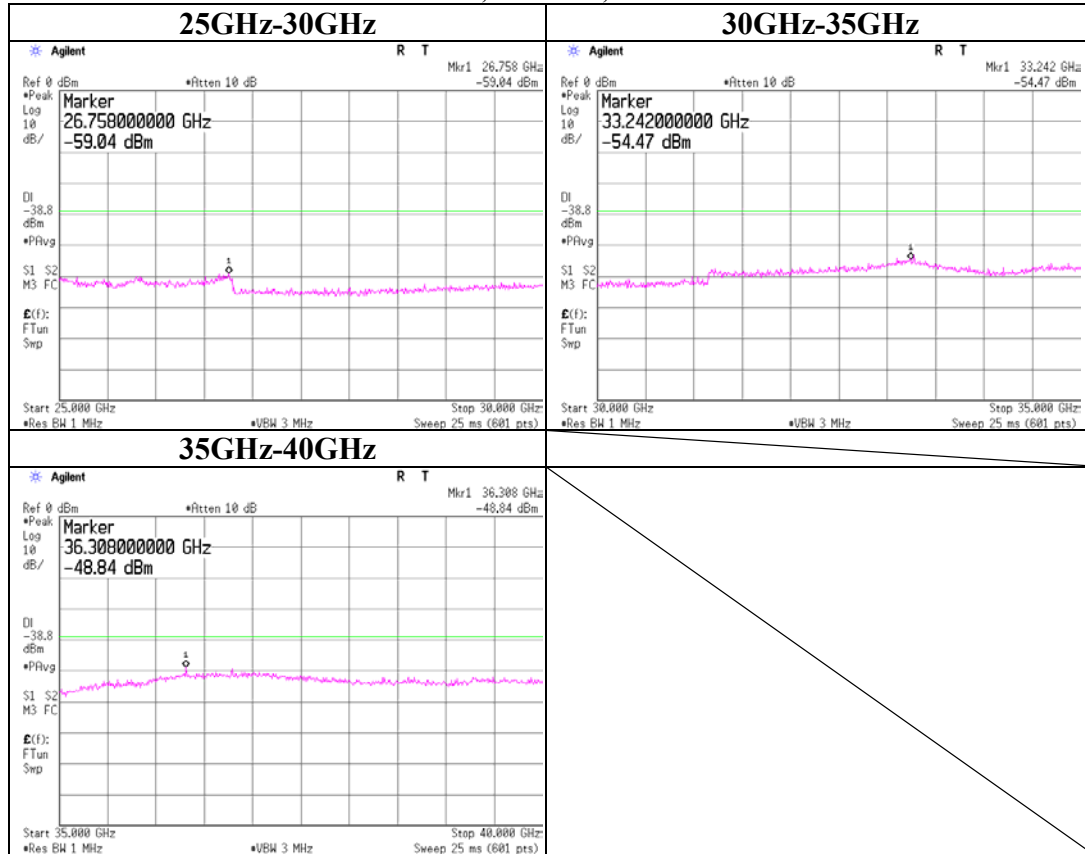
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5180MHz, Main ANT



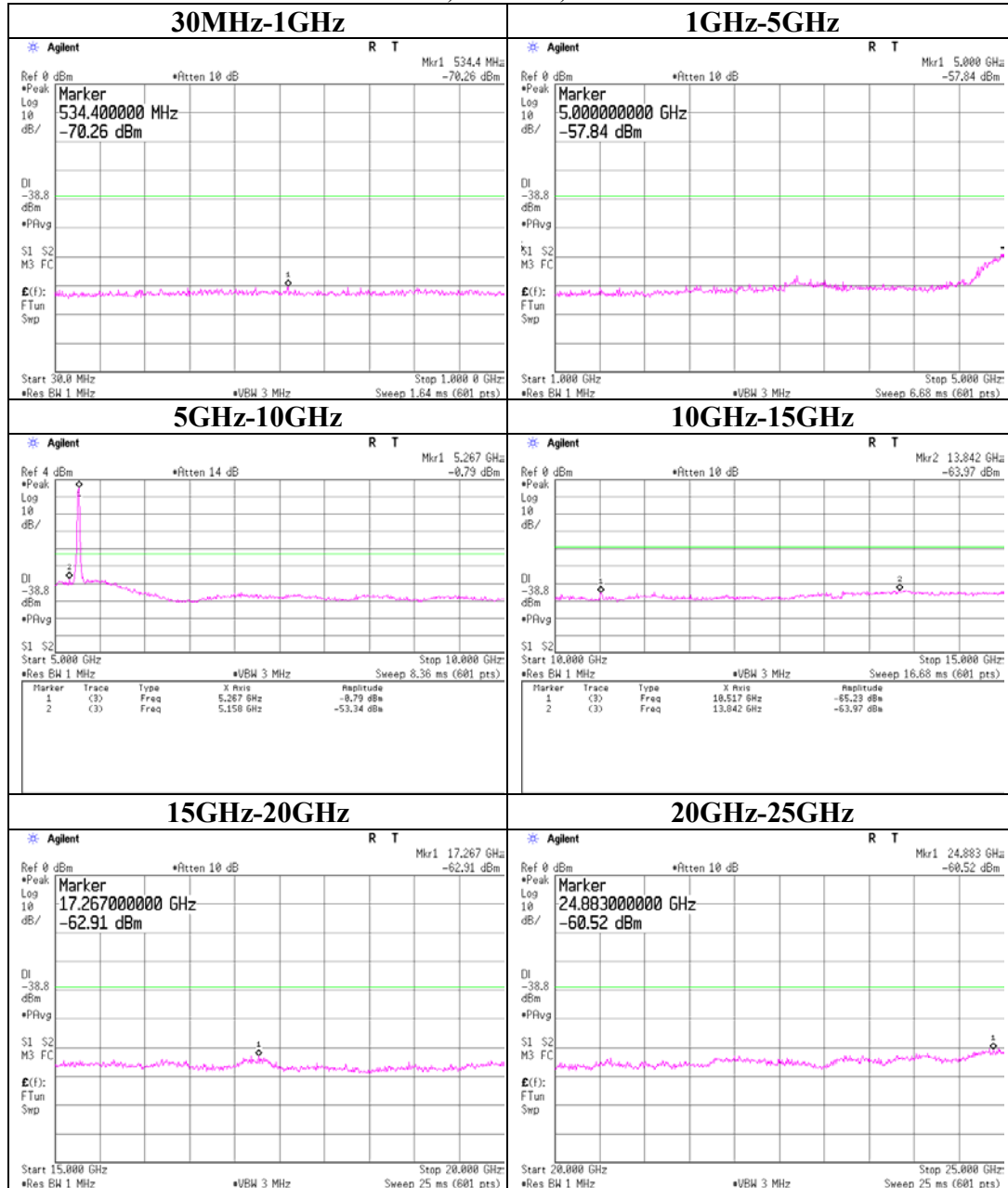
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5180MHz, Main ANT



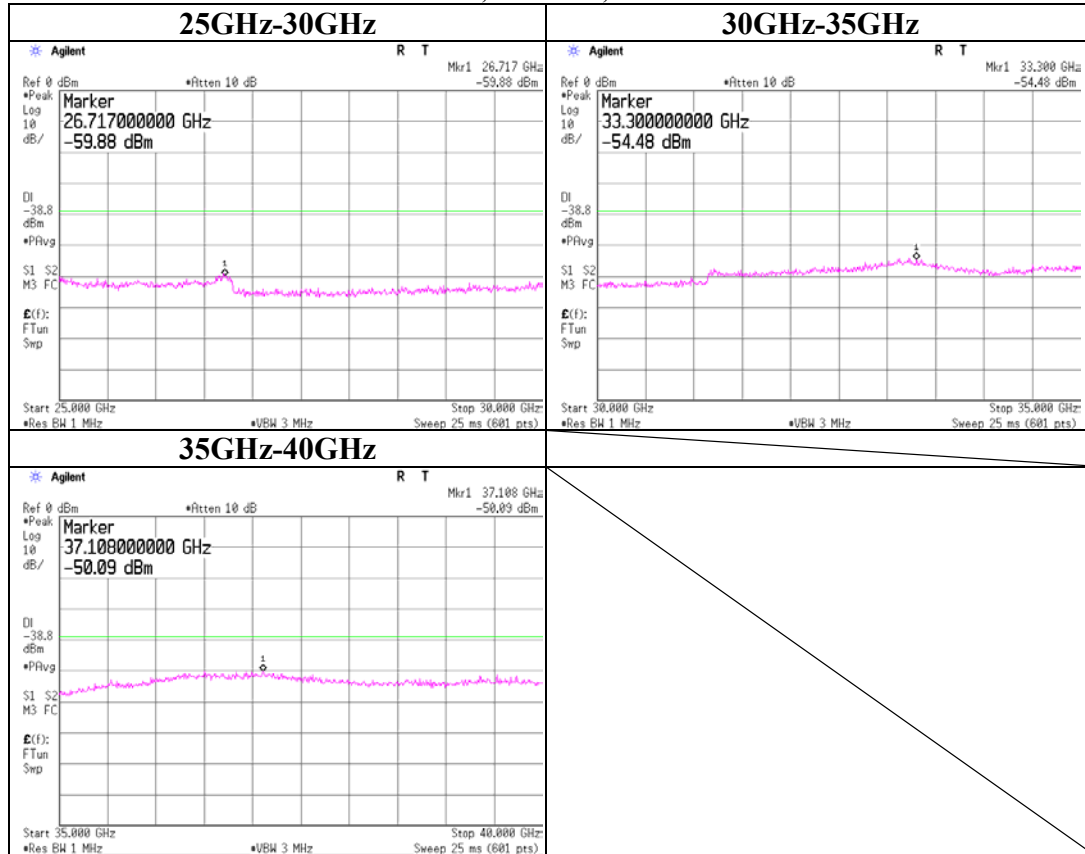
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5260MHz, Main ANT



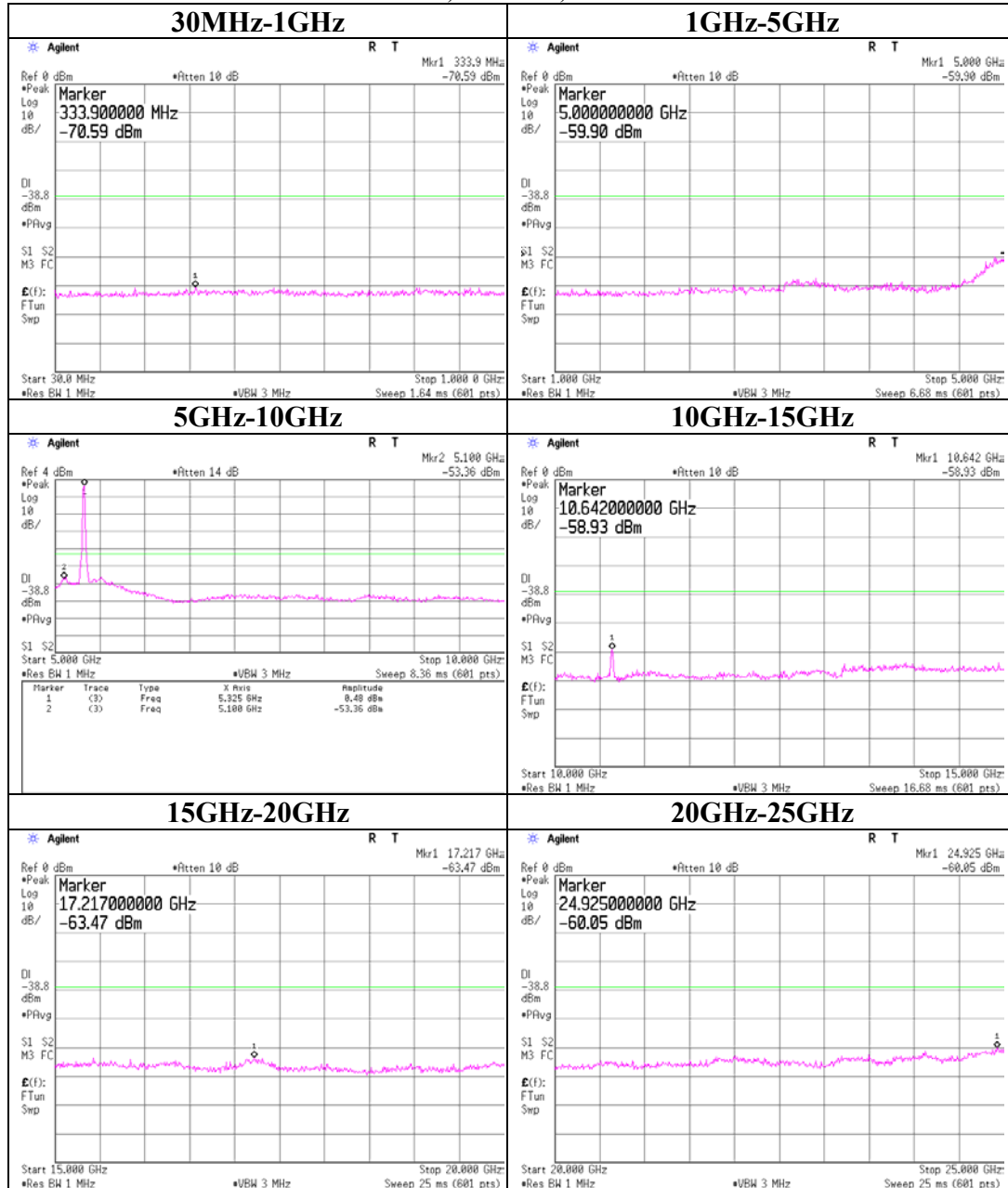
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5260MHz, Main ANT



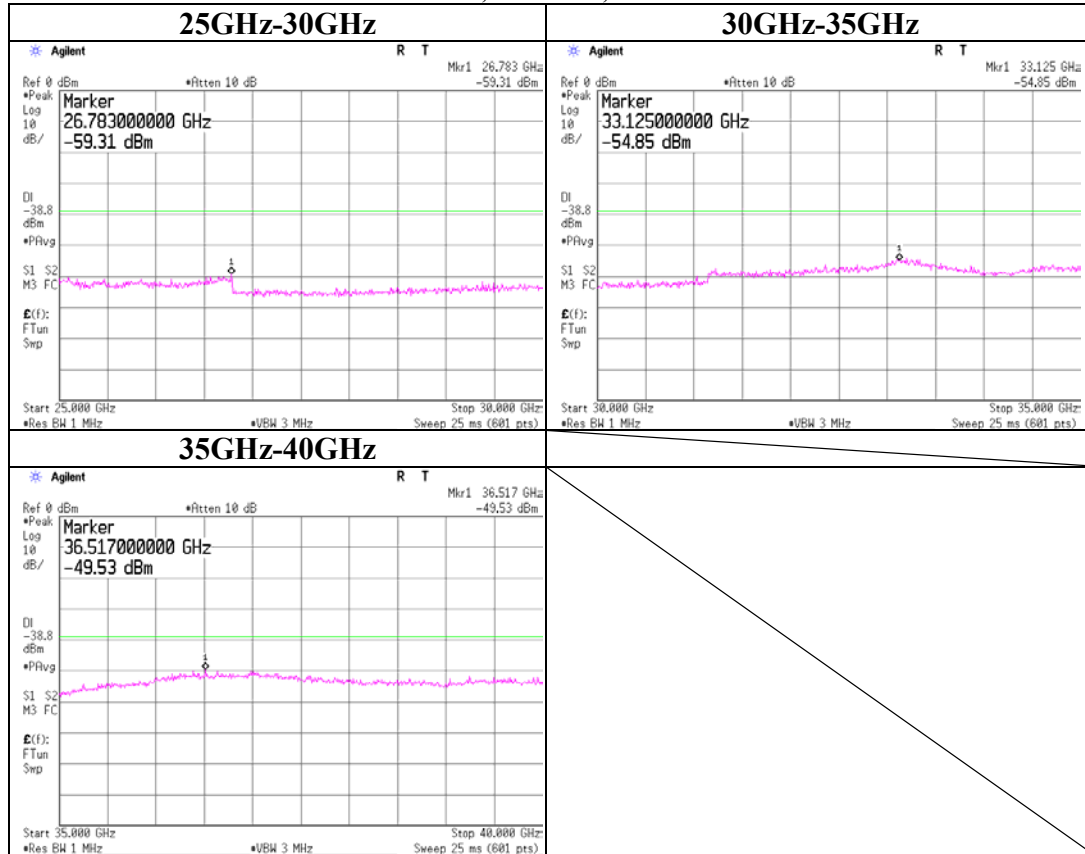
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5320MHz, Main ANT



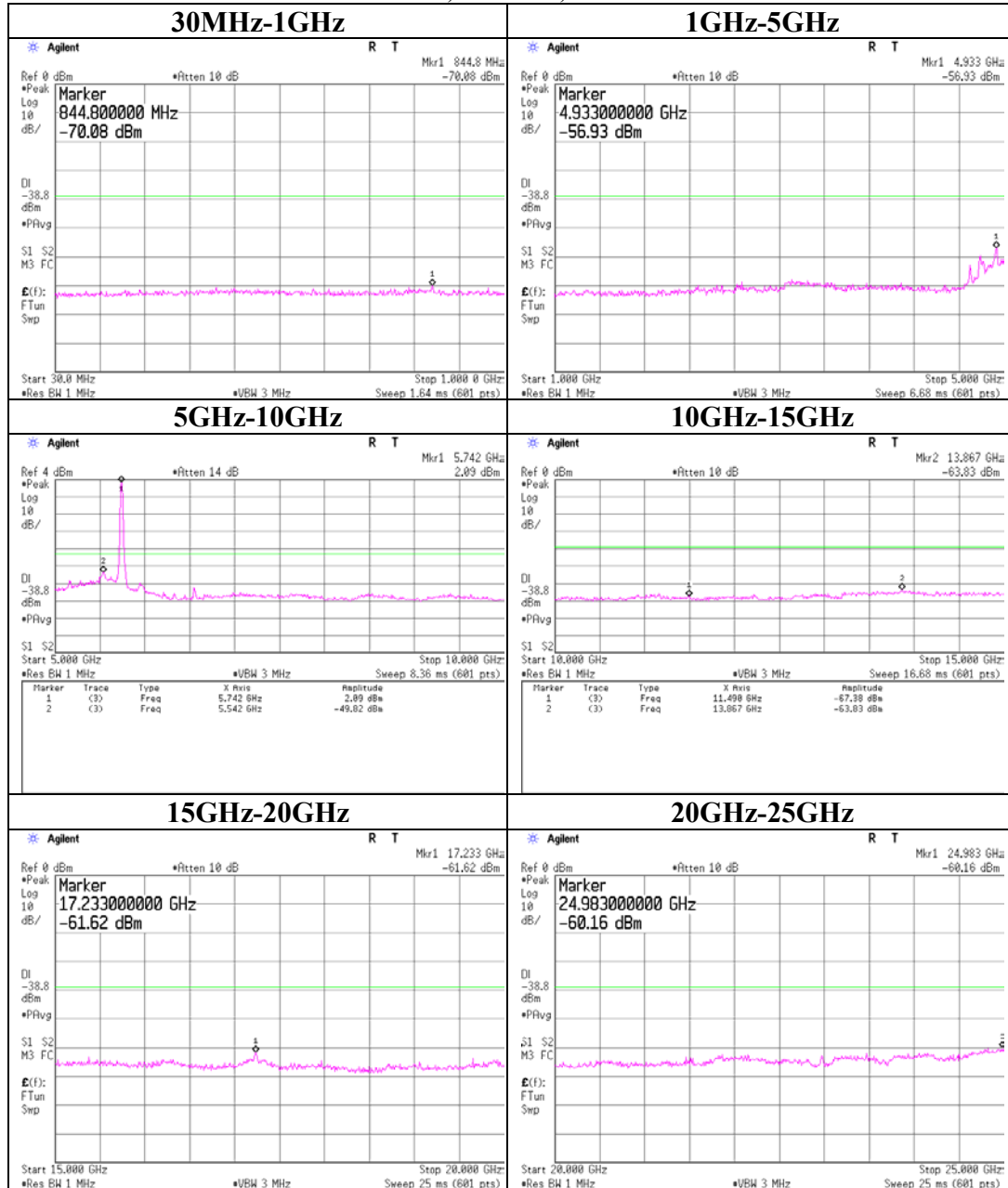
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5320MHz, Main ANT



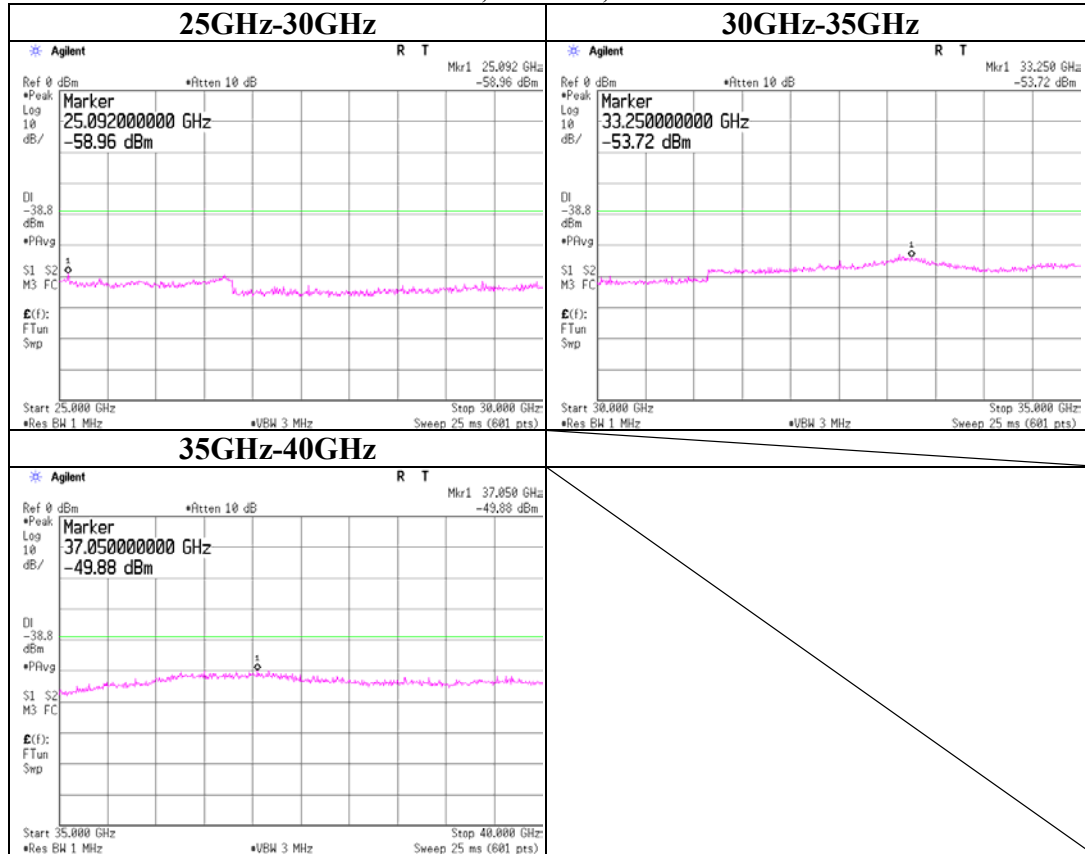
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5745MHz, Main ANT



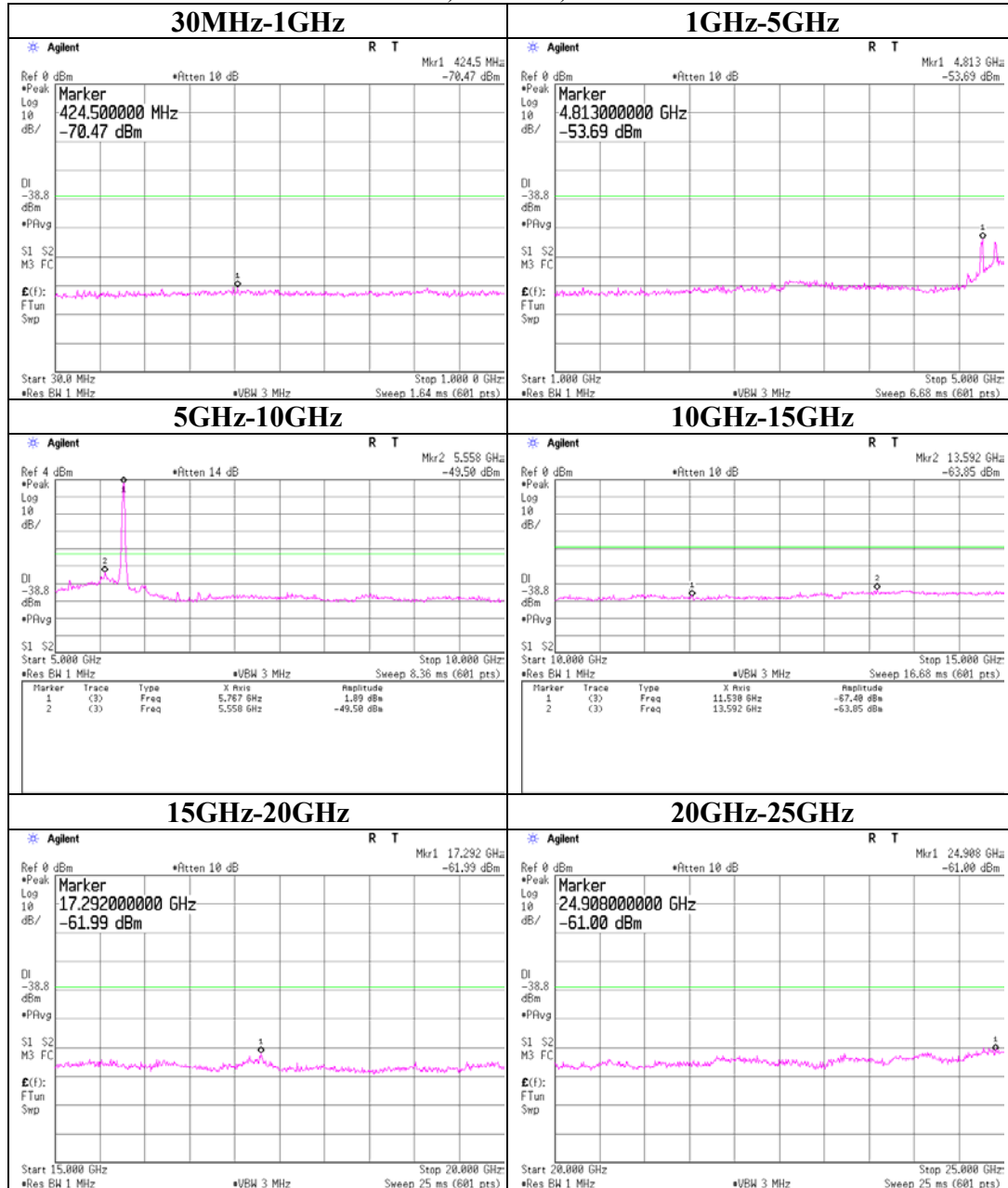
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5745MHz, Main ANT



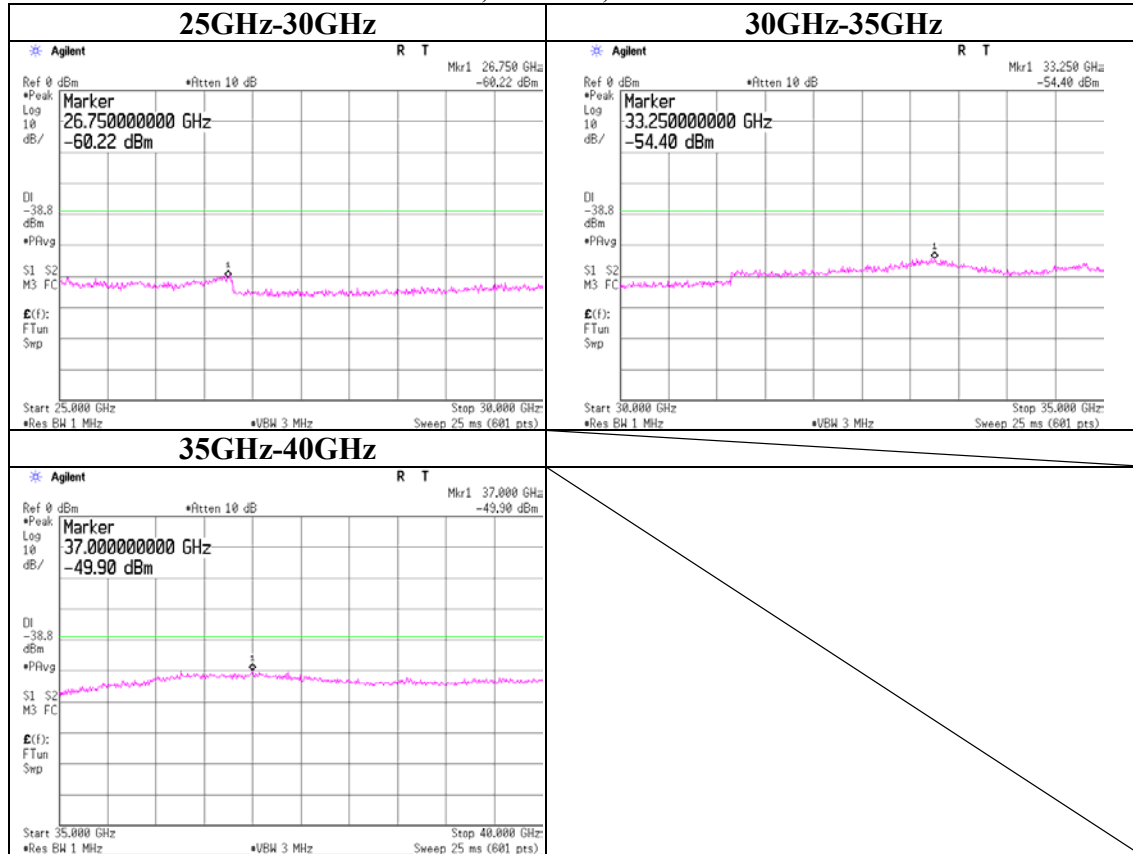
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5765MHz, Main ANT



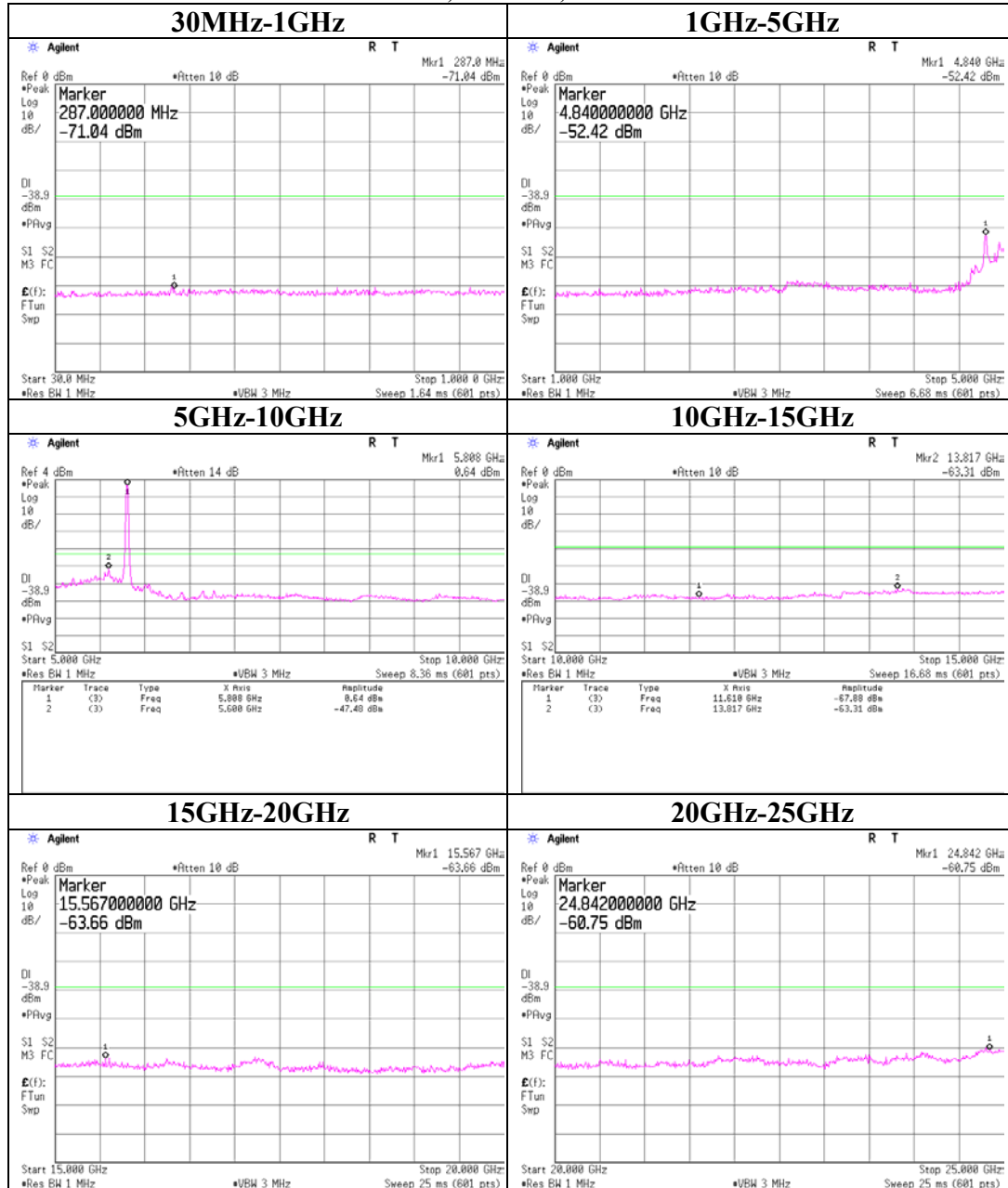
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5765MHz, Main ANT



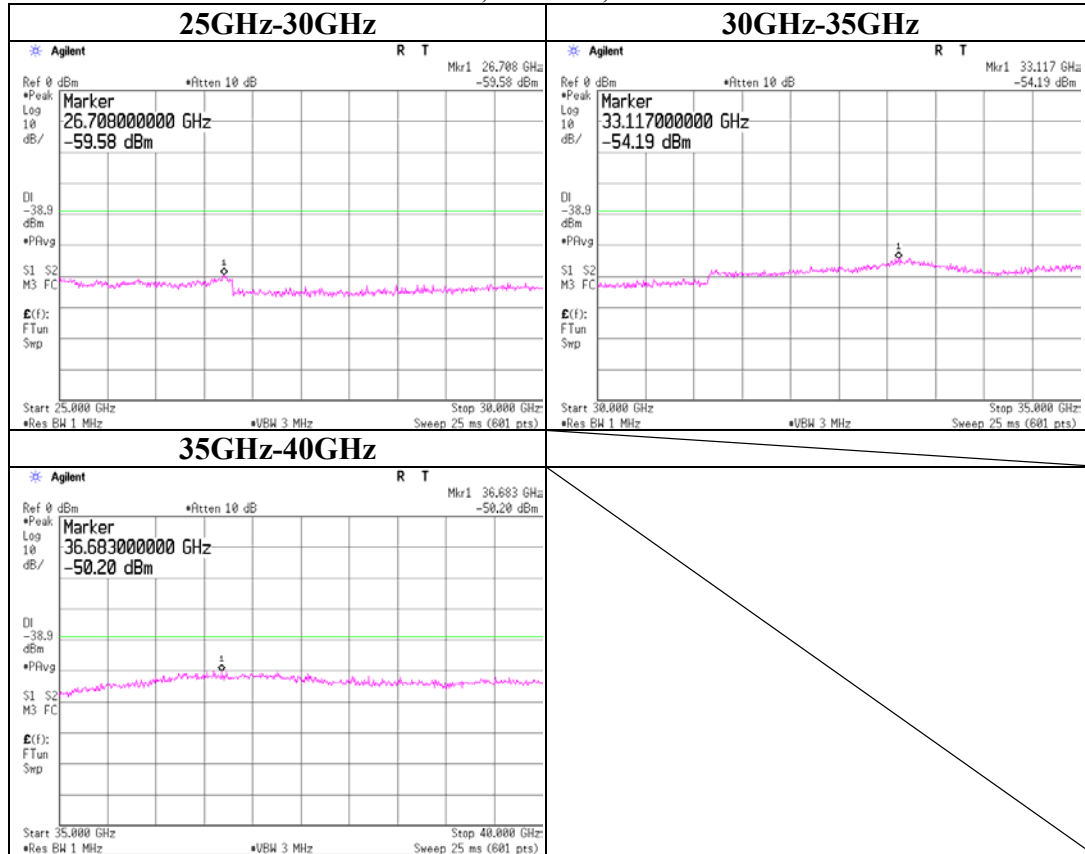
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5805MHz, Main ANT



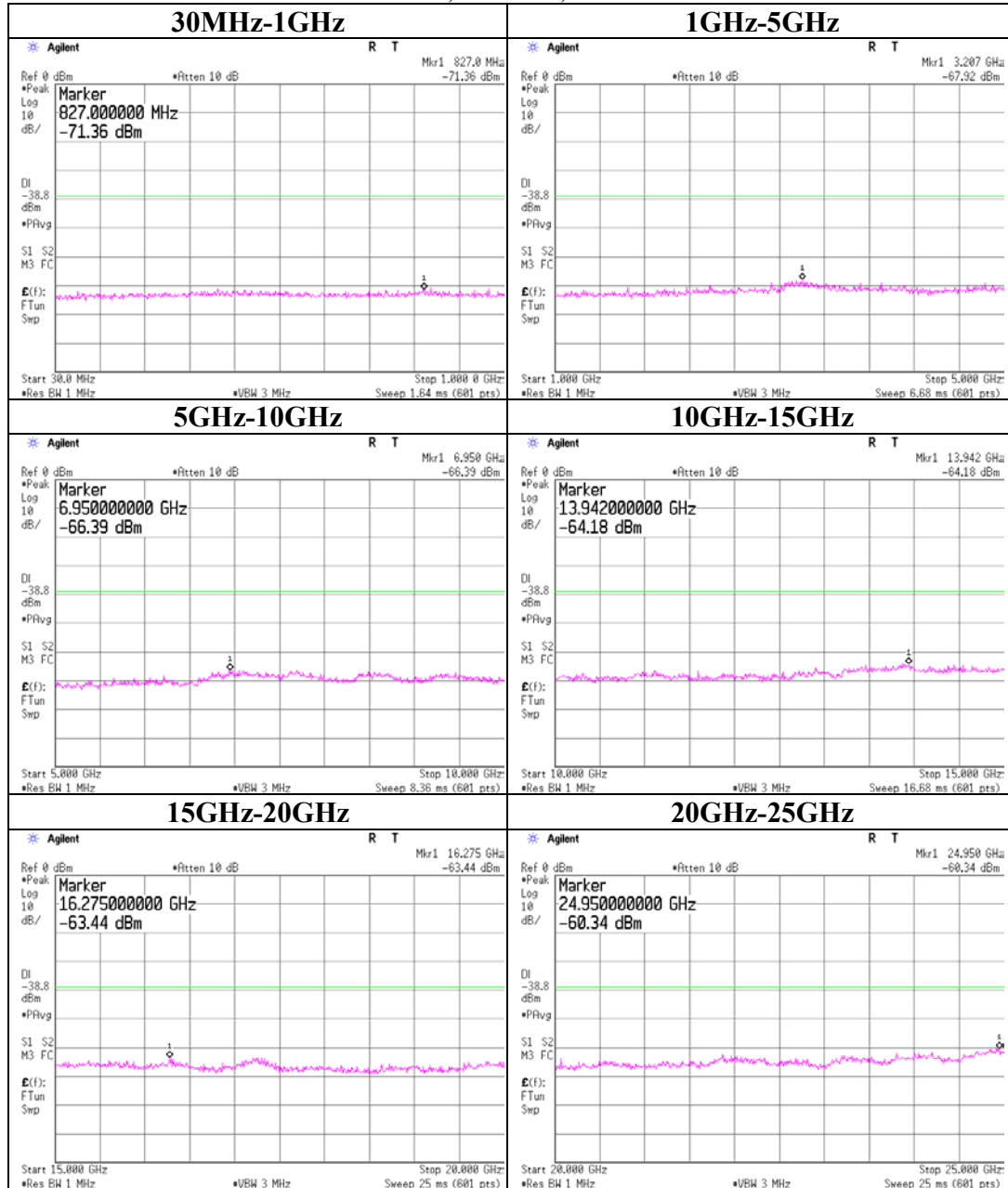
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Tx, 5805MHz, Main ANT



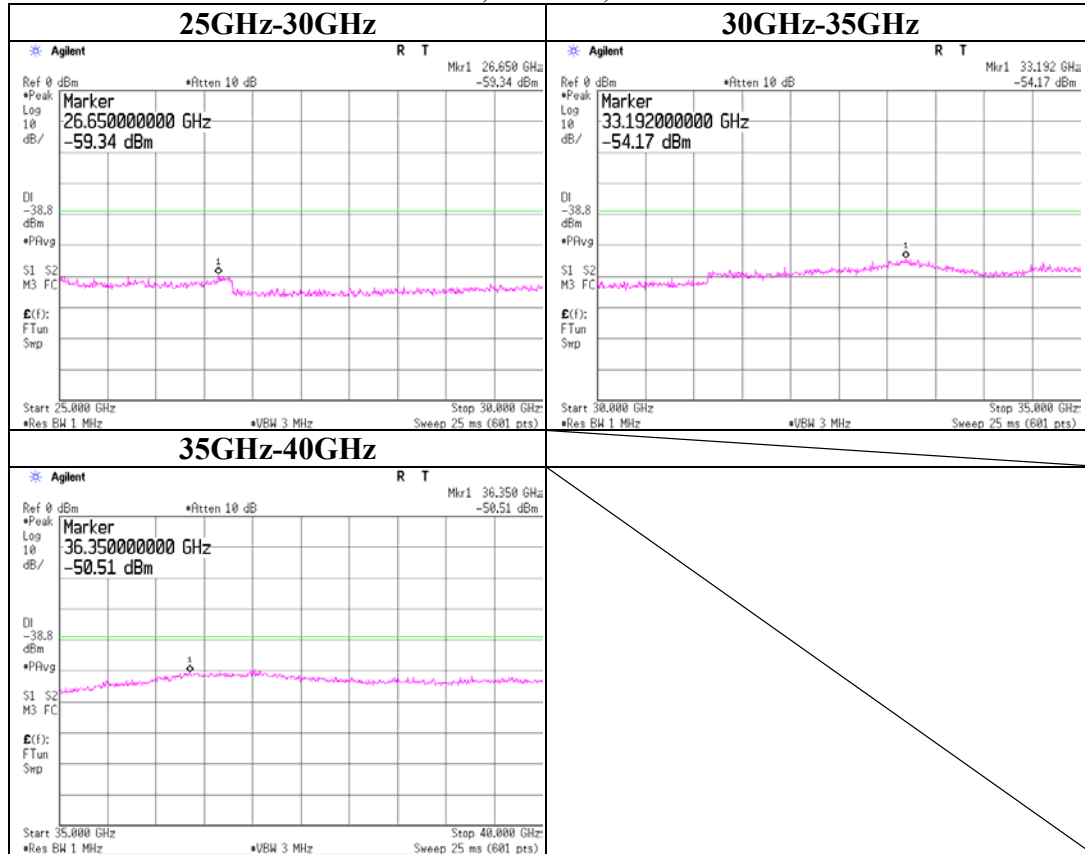
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Rx, 5260MHz, Main ANT



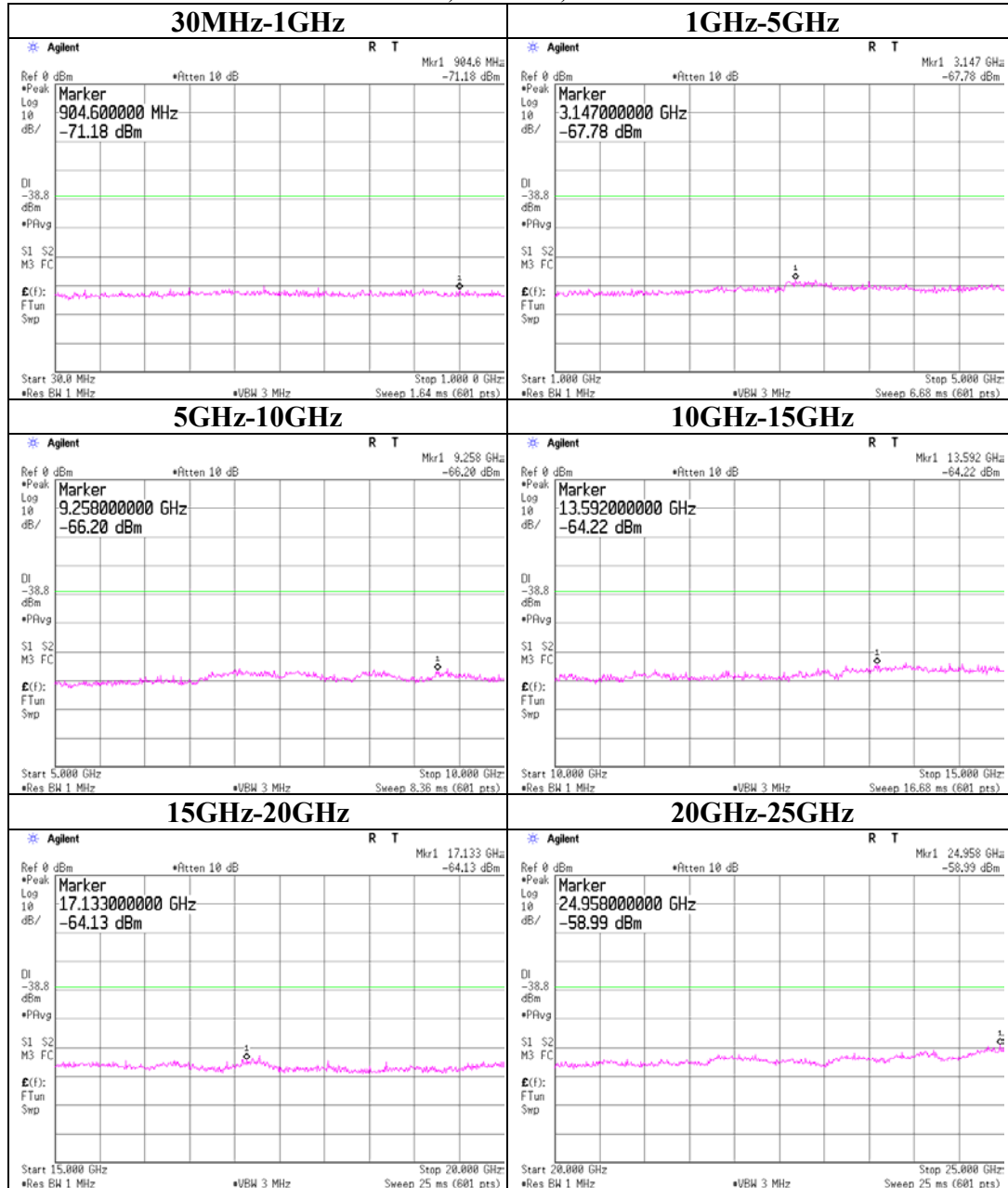
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Rx, 5260MHz, Main ANT



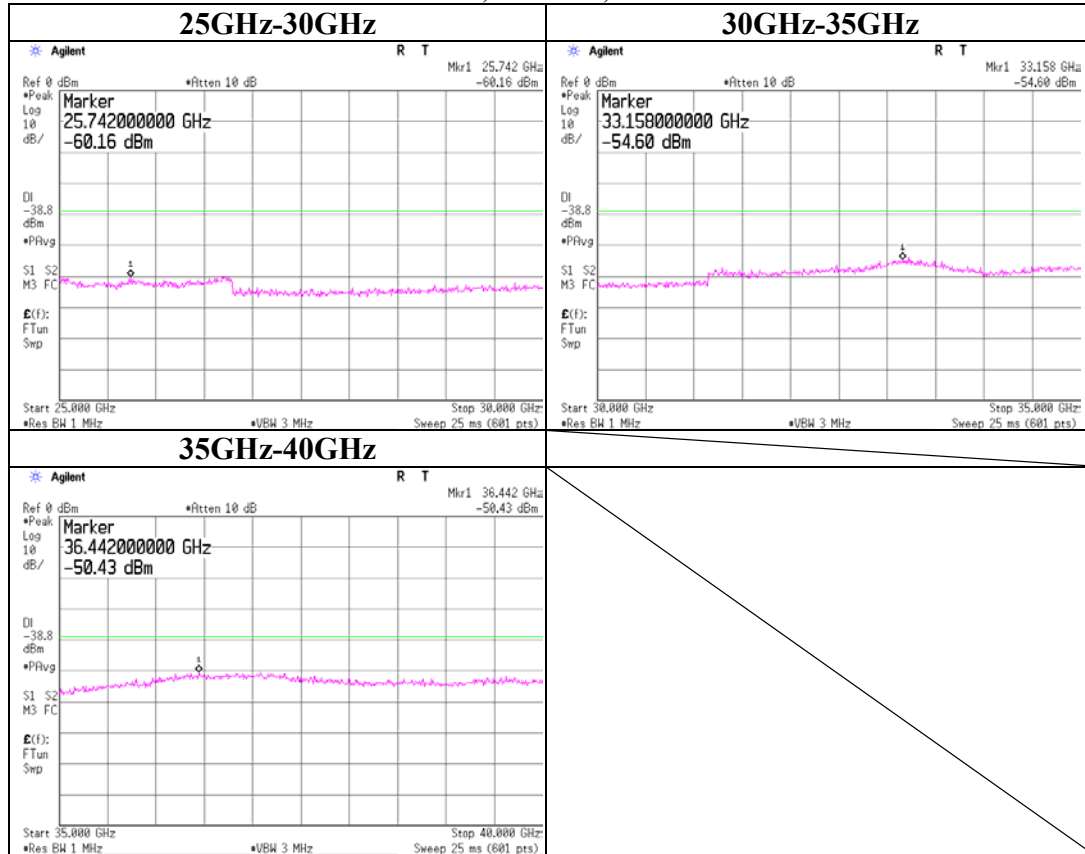
Conducted Spurious Emission(DSSS and other forms of modulation)

11a Rx, 5765MHz, Main ANT



Conducted Spurious Emission(DSSS and other forms of modulation)

11a Rx, 5765MHz, Main ANT



Radiated emission Band Edge compliance 11a Tx, Main ANT

UL Japan, Inc.

Head Office EMC Lab. No.1 Semi Anechoic Chamber

Company NEC Corporation
Equipment Factory Computer FC-NOTE series
Model FC-N21S/BY5SS
S/N S760538MA
Power AC 120V / 60Hz
Mode 11a Tx 5260MHz 12Mbps Main ANT
EUT Position X-axis (Worst)

Regulation FCC Section 15.407(b) / RSS-210 A9.3
Test Distance 3m
Date 08/02/2007
Temperature 26deg.C
Humidity 61%
Engineer Takumi Shimada

Tx Antenna 0.8m Height

PK DETECT (RBW: 1MHz, VBW:1MHz) (* No.1: Tx 5180MHz, No.2: Tx 5320MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV/m]	[dBuV/m]					[dB]	[dB]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	5150.0	54.8	53.7	31.7	36.2	3.9	0.0	54.2	53.1	73.9	19.7	20.8
2	5350.0	59.7	59.7	31.7	36.2	4.0	0.0	59.2	59.2	73.9	14.7	14.7

AV DETECT (RBW: 1MHz, VBW:10Hz) (* No.1: Tx 5180MHz, No.2: Tx 5320MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV/m]						[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	5150.0	37.1	37.6	31.7	36.2	3.9	0.0	36.5	37.0	53.9	17.4	16.9
2	5350.0	41.1	41.2	31.7	36.2	4.0	0.0	40.6	40.7	53.9	13.3	13.2

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

*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.

(No.1 Semi Anechoic Chamber) (* No.1: Tx 5180MHz, No.2: Tx 5320MHz, No.3 and No.4: Tx 5745MHz, No.5 and No.6: Tx 5805MHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation)		SG Reading		Tx	Tx	Tx Ant.	RESULT (EIRP)		LIMIT	MARGIN		Mode	A/C
		[dBuV/m]		[dBm]		Cable	Ant.	ATT.	[dBm]		[dBm]	[dB]			
		HOR	VER	HOR	VER	Loss	Gain	Loss	HOR	VER	(EIRP)	HOR	VER		
1	5150.00	54.2	53.1	-54.8	-55.6	3.0	10.9	0.0	-46.8	-47.6	-27.0	19.8	20.6	Operating	No1
2	5350.00	59.2	59.2	-49.8	-49.4	3.0	10.8	0.0	-42.0	-41.7	-27.0	15.0	14.7	Operating	No1
3	5715.00	55.6	56.4	-53.3	-52.0	3.2	10.6	0.0	-46.0	-44.7	-27.0	19.0	17.7	Operating	No1
4	5725.00	70.5	71.3	-38.4	-37.1	3.2	10.6	0.0	-31.1	-29.8	-17.0	14.1	12.8	Operating	No1
5	5825.00	68.3	69.0	-40.6	-39.4	3.2	10.5	0.0	-33.4	-32.1	-17.0	16.4	15.1	Operating	No1
6	5835.00	56.7	55.6	-52.2	-52.8	3.2	10.5	0.0	-45.0	-45.5	-27.0	18.0	18.5	Operating	No1

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperiodic Antenna(300-1000MHz), Horn Antenna(1-12.75GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

*The limit is rounded down to one decimal place.

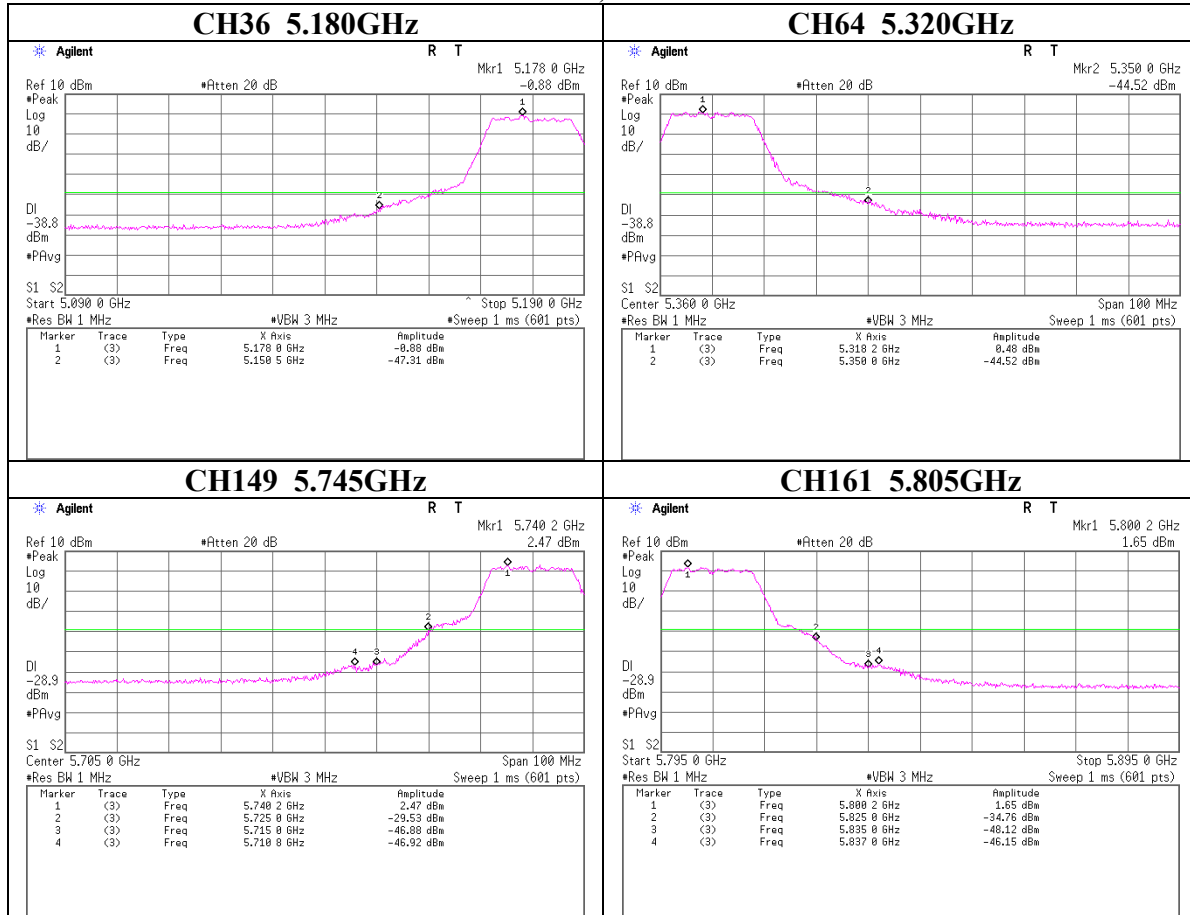
*The test result is round off to one or two decimal places, so some differences might be observed.

Detector : S/A: PK, RBW: 1MHz / VBW: 1MHz

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted emission Band Edge compliance

11a Tx, Main ANT



Peak Power Spectral Density

UL Japan, Inc.

Head Office EMC Lab. No.4 Measurement room

Company	NEC Corporation	Regulation	FCC Section 15.407(a)(1)(2)(3)(5) / RSS-210 A9.2(1)(2)(3)
Equipment	Factory Computer FC-NOTE series	Test Distance	-
Model	FC-N21S/BY5SS	Date	08/16/2007
S/N	S760538MA	Temperature	25 deg.C.
Power	AC 120V / 60Hz	Humidity	64 %
Mode	11a, Transmitting (Tx), 12Mbps, Main ANT	Engineer	Kenichi Adachi

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
36	5180.0	-8.50	1.30	10.09	2.89	4.00	1.11
52	5260.0	-8.15	1.29	10.08	3.22	4.00	0.78
64	5320.0	-7.85	1.28	10.08	3.51	4.00	0.49
149	5745.0	-6.84	1.36	10.07	4.59	17.00	12.41
153	5765.0	-6.93	1.37	10.06	4.50	17.00	12.50
161	5805.0	-7.06	1.38	10.06	4.39	17.00	12.62

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

* Atten. was not used for factor 0.0dB of the above table.

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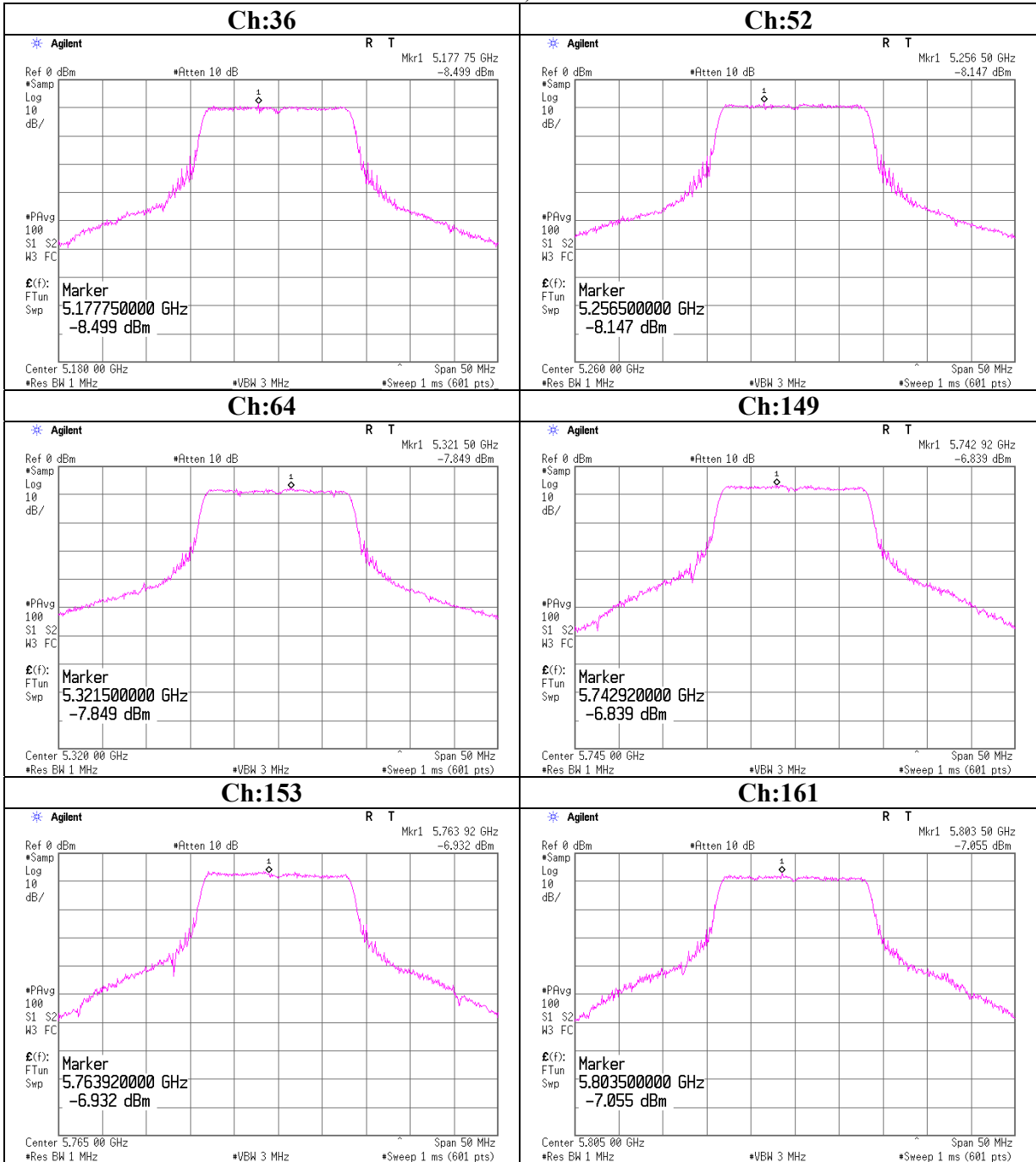
Head Office EMC Lab.

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

Telephone : +81 596 24 8116

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Peak Power Spectral Density
11a Tx, Main ANT



Peak Excursion Ratio

UL Japan, Inc.

Head Office EMC Lab. No.4 Measurement room

Company	NEC Corporation	Regulation	FCC Section 15.407(a)(6)
Equipment	Factory Computer FC-NOTE series	Test Distance	-
Model	FC-N21S/BY5SS	Date	08/16/2007
S/N	S760538MA	Temperature	25 deg.C.
Power	AC 120V / 60Hz	Humidity	64 %
Mode	11a, Transmitting (Tx), 12Mbps, Main ANT	Engineer	Kenichi Adachi

Ch	Freq. [MHz]	Peak Power Excursion [dB]	Limit [dB]	Margin [dB]
36	5180.0	8.912	13.0	4.1
52	5260.0	9.003	13.0	4.0
64	5320.0	8.968	13.0	4.0
149	5745.0	8.966	13.0	4.0
153	5765.0	8.822	13.0	4.2
161	5805.0	7.966	13.0	5.0

UL Japan, Inc.

Head Office EMC Lab.

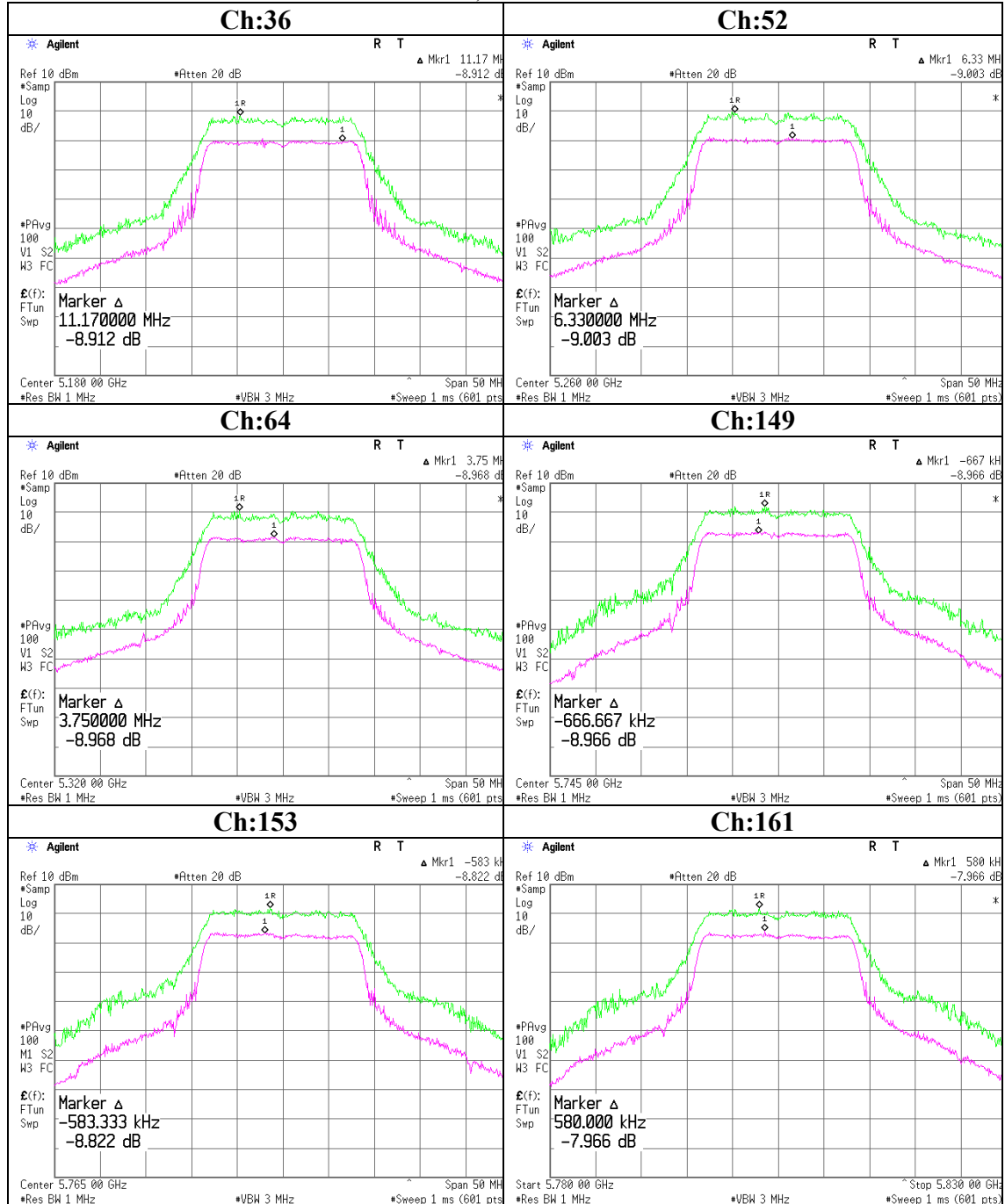
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Telephone : +81 596 24 8116

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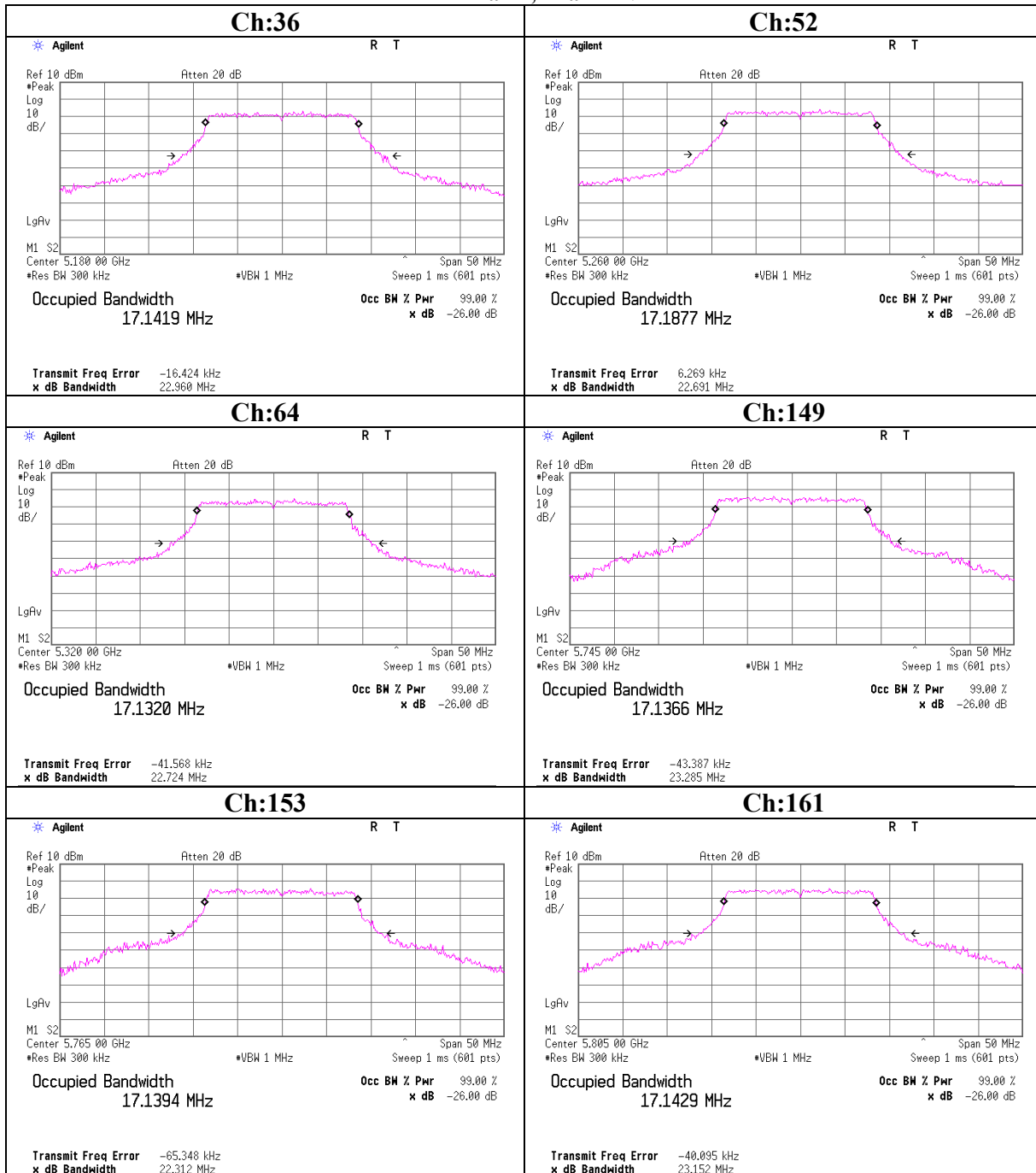
Peak Excursion Ratio

11a Tx, Main ANT



99%Occupied Bandwidth

11a Tx, Main ANT



APPENDIX 3: Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2006/09/13 * 12
MCC-35	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	AT	2006/11/13 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MCC-03	Coaxial Cable	Fujikura/Suhner/Agilent/TSJ	-	CE	2006/12/28 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2007/02/22 * 12
MTA-07	Terminator	MCL	BTRM-50	CE	2007/02/01 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE / CE	2006/10/14 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE / CE	2006/11/27 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE / CE	2006/11/01 * 12
MJM-01	Measure	KDS	ES19-55	RE / CE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	RE	2007/01/19 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent/TSJ	-	RE	2007/02/27 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2007/07/11 * 12
MMM-03	Digital Tester	Fluke	FLUKE 26-3	RE / CE	2006/08/30 * 12
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MCC-15	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MCC-18	Microwave Cable 1G-26.5GHz 5m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2007/02/15 * 12
MHF-05	High Pass Filter 3.5-18GHz	Tokimec	TF323DCA	RE	2007/01/16 * 12
MHA-01	Horn Antenna 18-26.5G	EMCO	3160-09	RE	2007/01/30 * 12
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / CE	2007/03/05 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2007/06/20 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/02 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/29 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MMM-02	Digital Tester	Hioki	3255	RE	2007/03/23 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE / CE	2006/01/19 * 24

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

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EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MJM-06	Measure	PROMART	SEN1955	RE	-
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12
MPA-17	Pre Amplifier	UNITEK ELECTROBICS INC.	40GHzAMP	RE	2006/12/15 * 12
MCC-53	Microwave Cable 1G-40GHz	Suhner	SUCOFLEX101	RE	2007/03/08 * 12
MCC-51	Coaxial cable	UL Japan	-	CE	2007/07/26 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	CE	2006/12/08 * 12
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	CE	2007/02/03 * 12
MTA-06	Terminator	MCL	BTRM-50	CE	2007/02/01 * 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 Items:

CE: Conducted Emissions

RE: Radiated Emissions

AT: Antenna Terminal conducted tests

UL Japan, Inc.

Head Office EMC Lab.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124