

# Conducted Emission

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2010/06/29

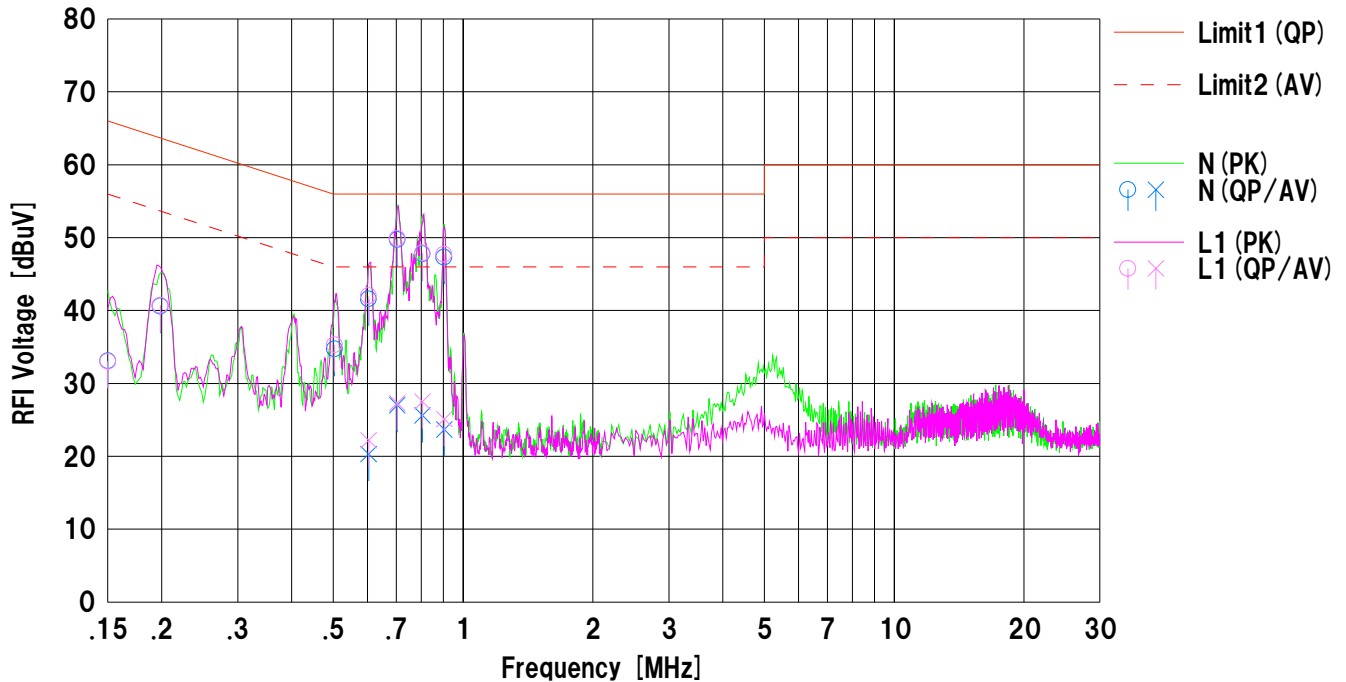
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11b\_2437MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 51%

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.15000	19.2	---	13.9	33.1	---	66.0	56.0	32.9	---	N	
2	0.19847	27.7	---	12.9	40.6	---	63.7	53.7	23.1	---	N	
3	0.50333	22.1	---	12.6	34.7	---	56.0	46.0	21.3	---	N	
4	0.60357	29.0	7.7	12.6	41.6	20.3	56.0	46.0	14.4	25.7	N	
5	0.70369	37.1	14.4	12.6	49.7	27.0	56.0	46.0	6.3	19.0	N	
6	0.80442	35.2	13.0	12.6	47.8	25.6	56.0	46.0	8.2	20.4	N	
7	0.90399	34.7	11.1	12.6	47.3	23.7	56.0	46.0	8.7	22.3	N	
8	0.15000	19.1	---	13.9	33.0	---	66.0	56.0	33.0	---	L1	
9	0.19847	27.8	---	12.9	40.7	---	63.7	53.7	23.0	---	L1	
10	0.50333	22.7	---	12.6	35.3	---	56.0	46.0	20.7	---	L1	
11	0.60357	29.4	9.6	12.6	42.0	22.2	56.0	46.0	14.0	23.8	L1	
12	0.70369	37.3	14.7	12.6	49.9	27.3	56.0	46.0	6.1	18.7	L1	
13	0.80442	35.3	14.9	12.6	47.9	27.5	56.0	46.0	8.1	18.5	L1	
14	0.90399	35.1	12.5	12.6	47.7	25.1	56.0	46.0	8.3	20.9	L1	

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+Highpass Filter+ATT) [dB]

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UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2010/06/29

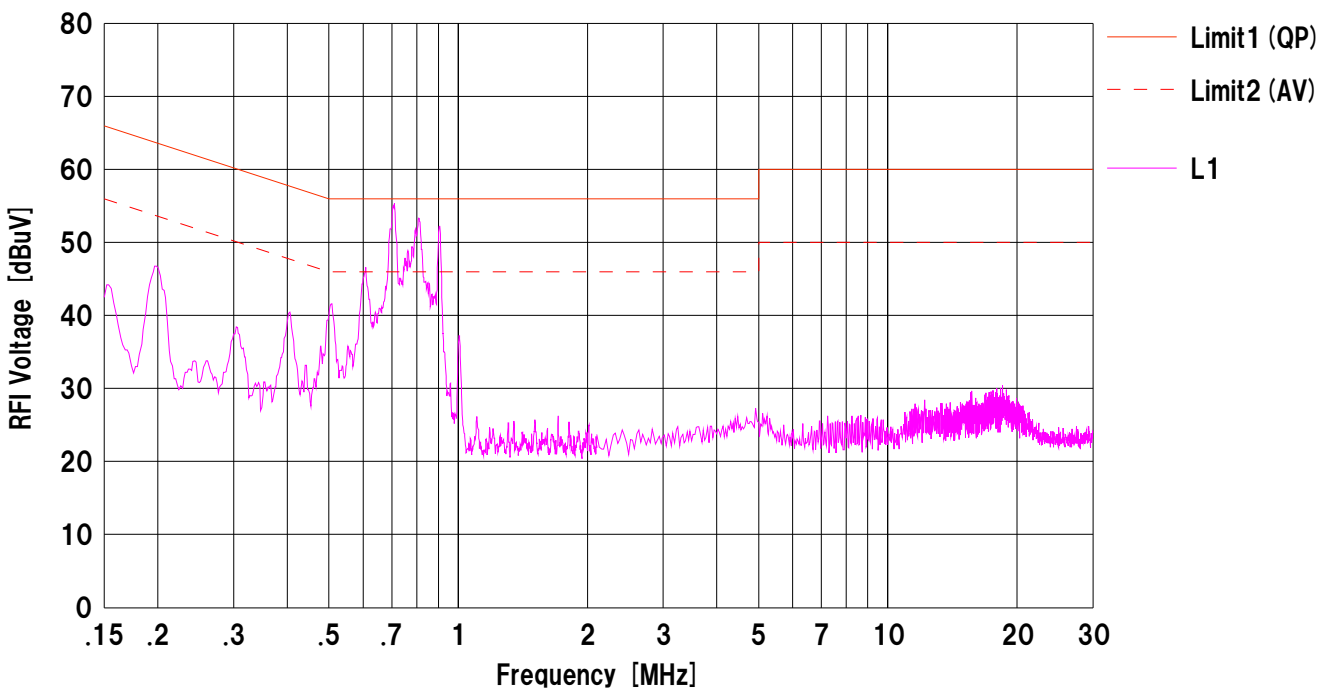
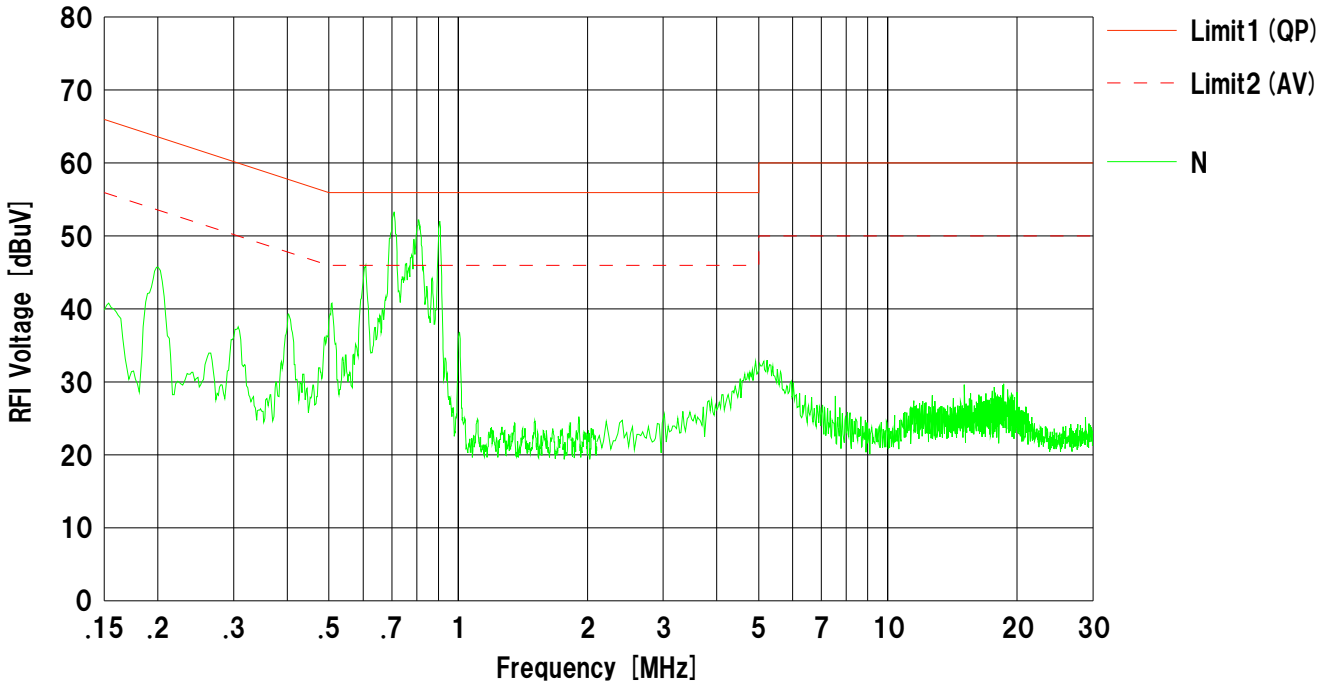
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11b\_2412MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 51%

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Makoto Hosaka



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+Highpass Filter+ATT) [dB]

# Conducted Emission

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2010/06/29

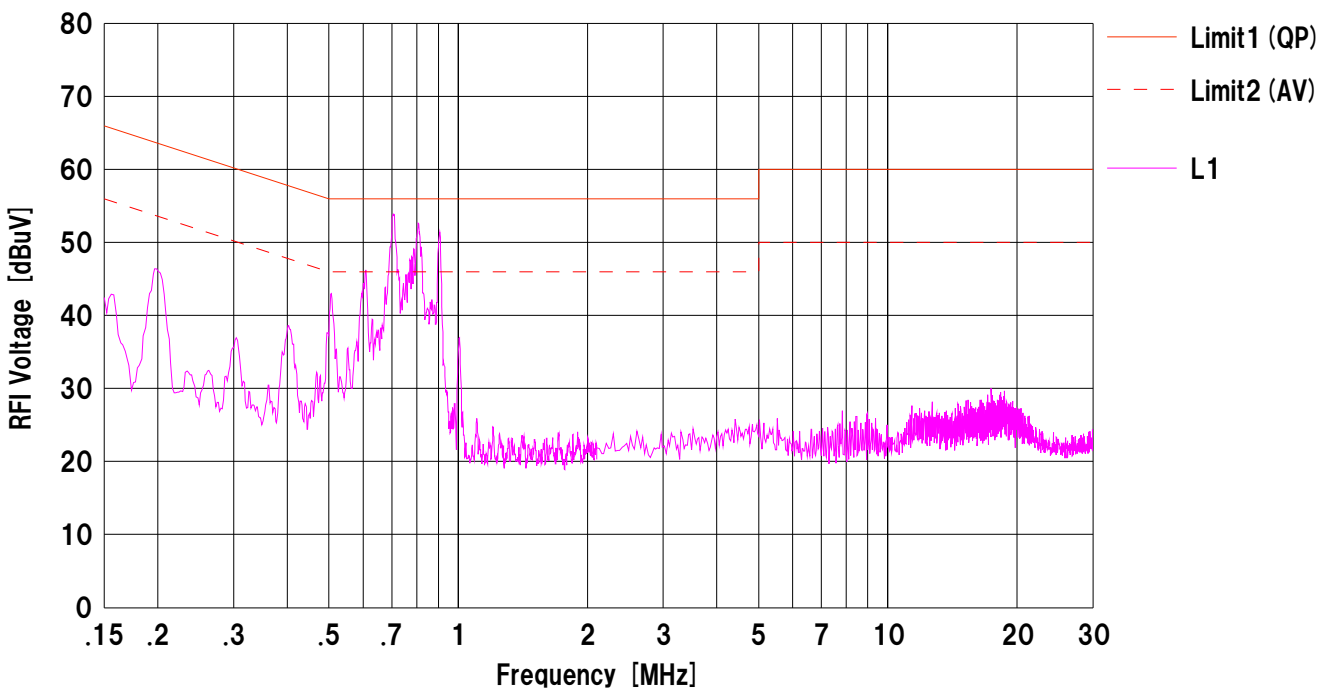
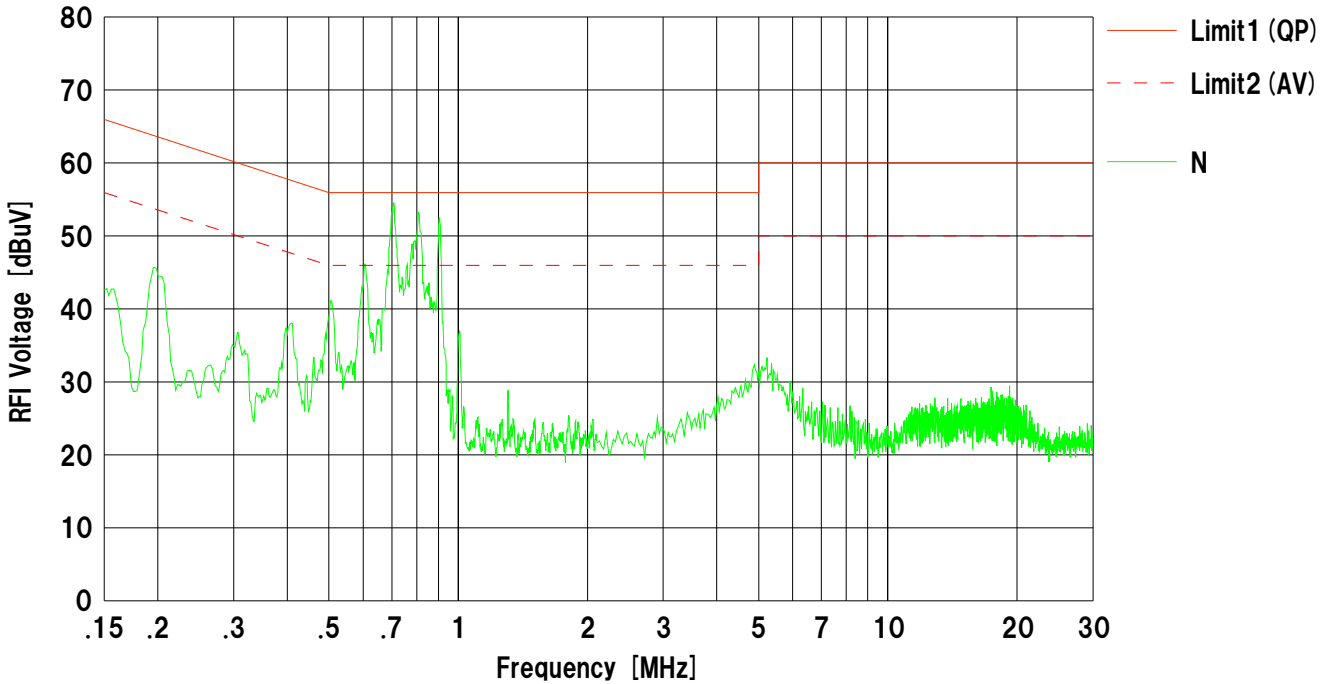
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11b\_2462MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 51%

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Makoto Hosaka



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+Highpass Filter+ATT) [dB]

# Conducted Emission

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2010/06/29

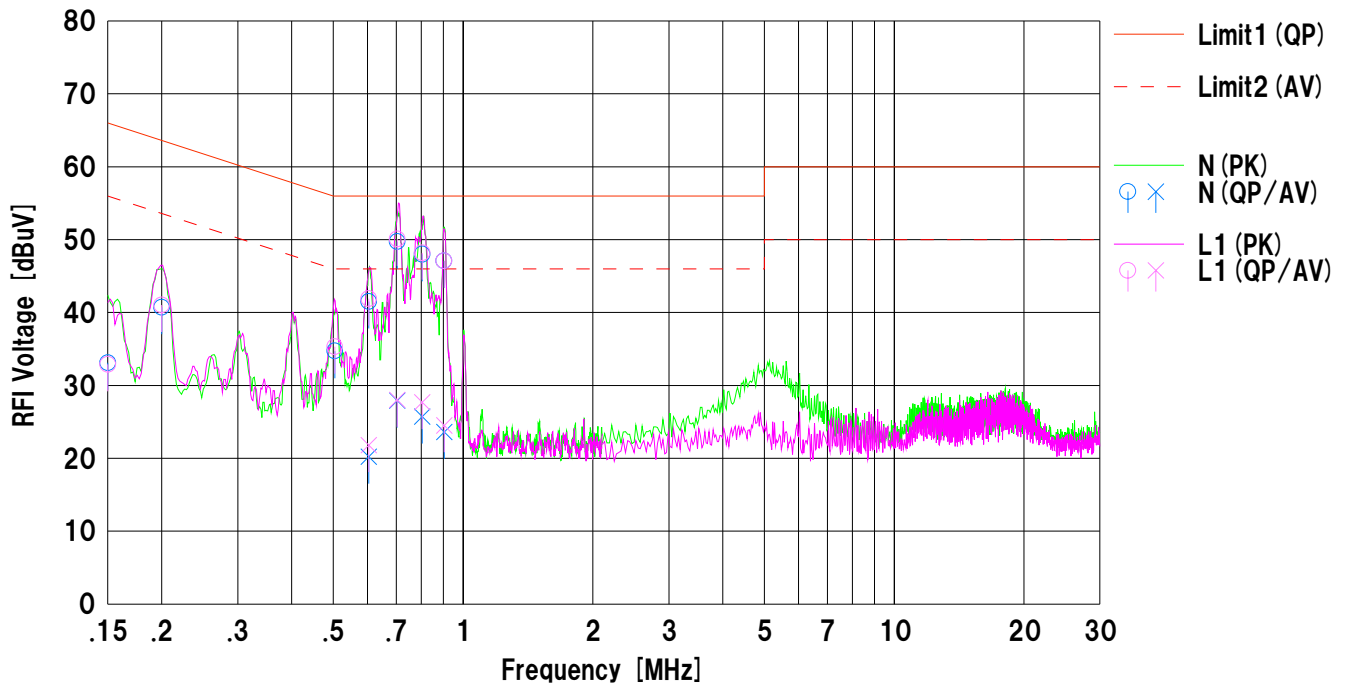
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11g\_2437MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 51%

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.15000	19.2	---	13.9	33.1	---	66.0	56.0	32.9	---	N	
2	0.19999	27.8	---	12.9	40.7	---	63.6	53.6	22.9	---	N	
3	0.50417	22.1	---	12.6	34.7	---	56.0	46.0	21.3	---	N	
4	0.60403	28.9	7.6	12.6	41.5	20.2	56.0	46.0	14.5	25.8	N	
5	0.70364	37.1	15.3	12.6	49.7	27.9	56.0	46.0	6.3	18.1	N	
6	0.80425	35.4	13.1	12.6	48.0	25.7	56.0	46.0	8.0	20.3	N	
7	0.90381	34.5	11.0	12.6	47.1	23.6	56.0	46.0	8.9	22.4	N	
8	0.15000	19.0	---	13.9	32.9	---	66.0	56.0	33.1	---	L1	
9	0.19999	28.1	---	12.9	41.0	---	63.6	53.6	22.6	---	L1	
10	0.50417	22.7	---	12.6	35.3	---	56.0	46.0	20.7	---	L1	
11	0.60403	29.3	9.2	12.6	41.9	21.8	56.0	46.0	14.1	24.2	L1	
12	0.70364	37.5	15.4	12.6	50.1	28.0	56.0	46.0	5.9	18.0	L1	
13	0.80425	35.6	15.1	12.6	48.2	27.7	56.0	46.0	7.8	18.3	L1	
14	0.90381	34.5	11.9	12.6	47.1	24.5	56.0	46.0	8.9	21.5	L1	

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+Highpass Filter+ATT) [dB]

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UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2010/06/29

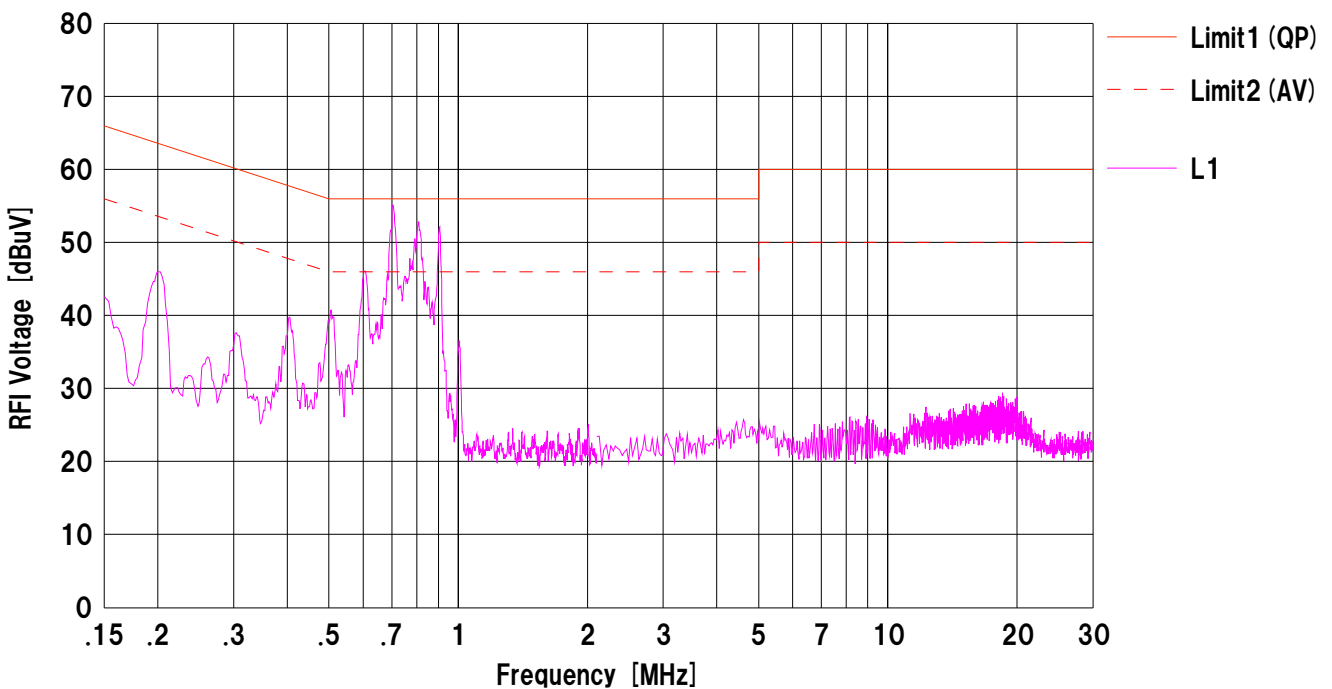
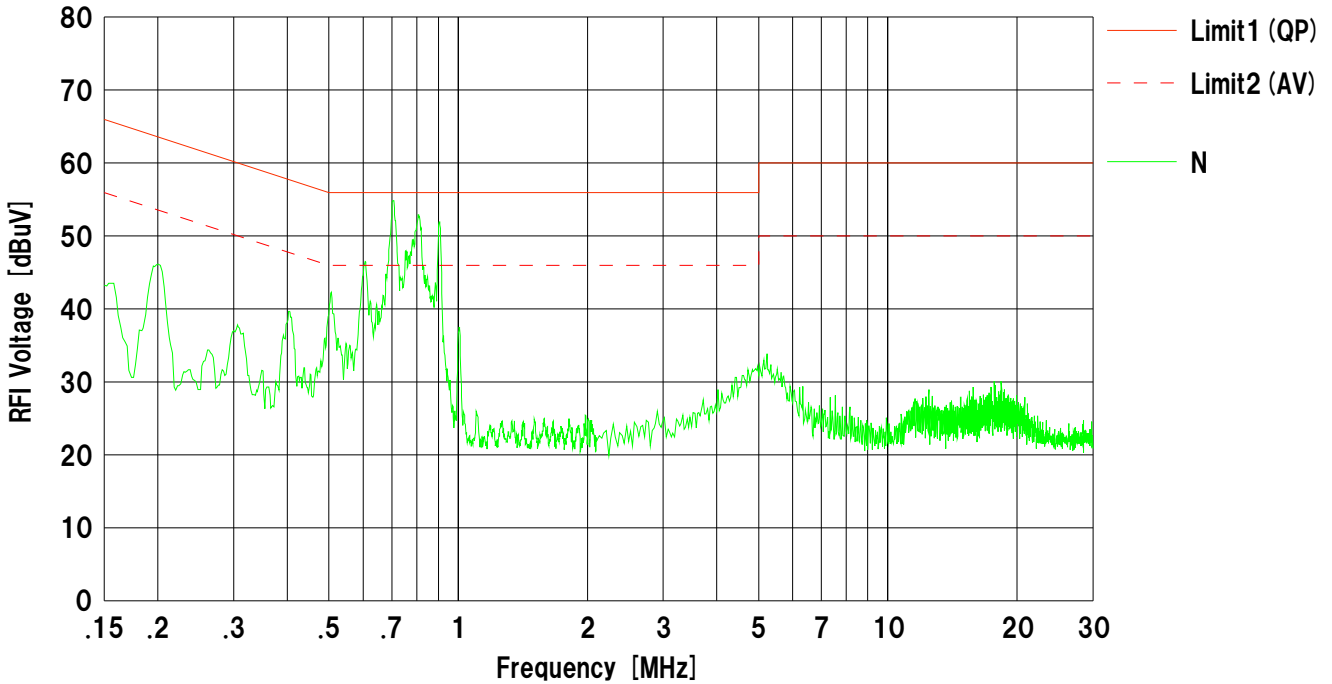
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11g\_2412MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 51%

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Makoto Hosaka



Calculation:Result [dBuV] =Reading [dBuV] +C.Fac (LISN+Cable+Highpass Filter+ATT) [dB]

# Conducted Emission

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2010/06/29

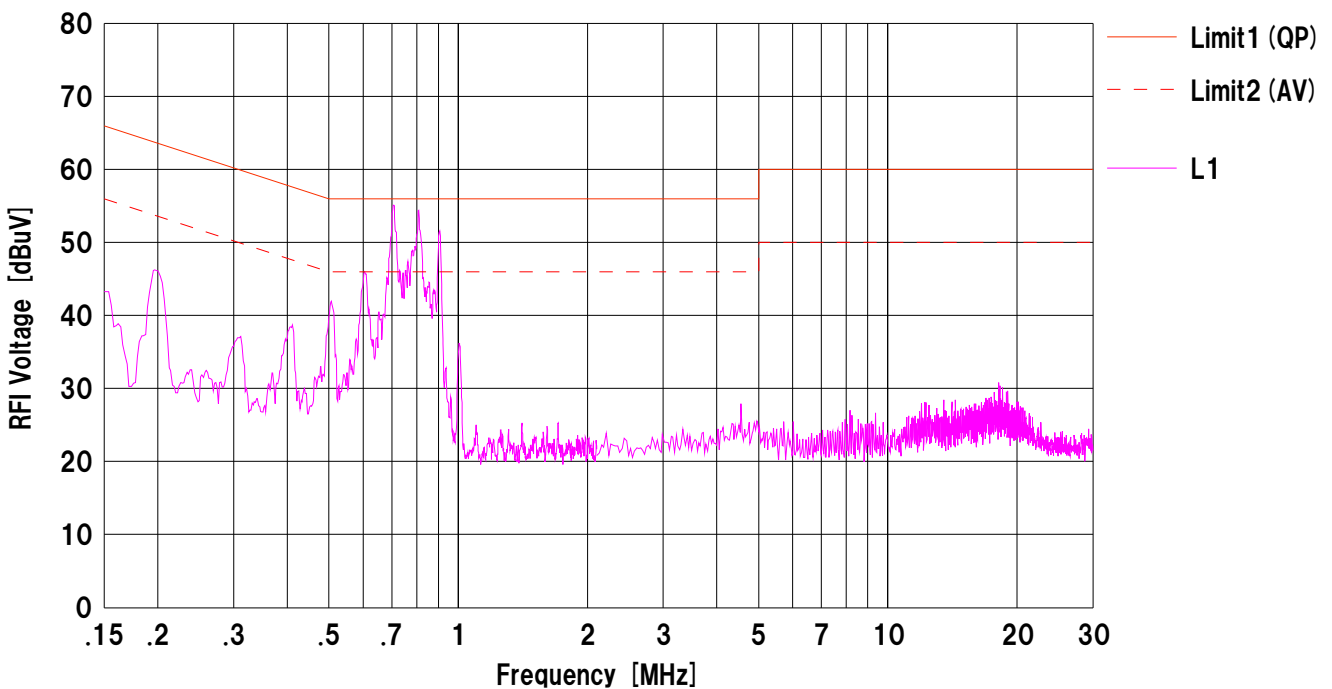
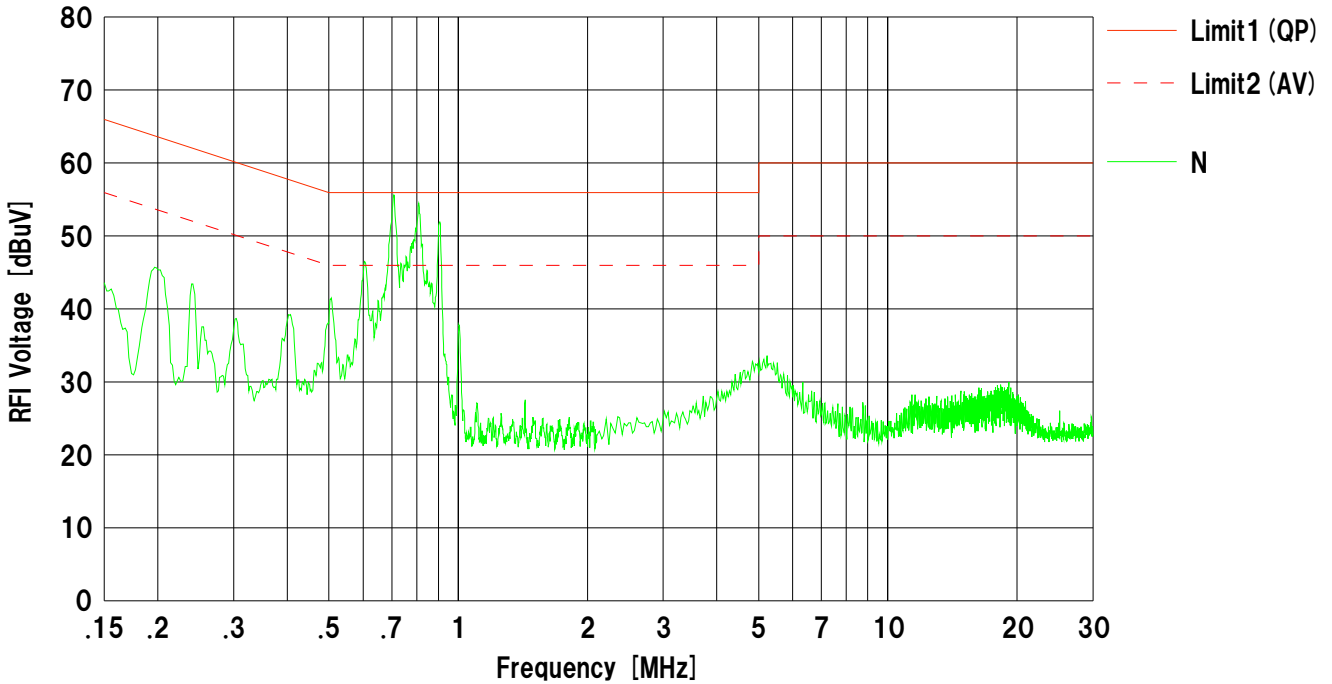
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11g\_2462MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 51%

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Makoto Hosaka



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+Highpass Filter+ATT) [dB]

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber  
Date : 2010/06/24

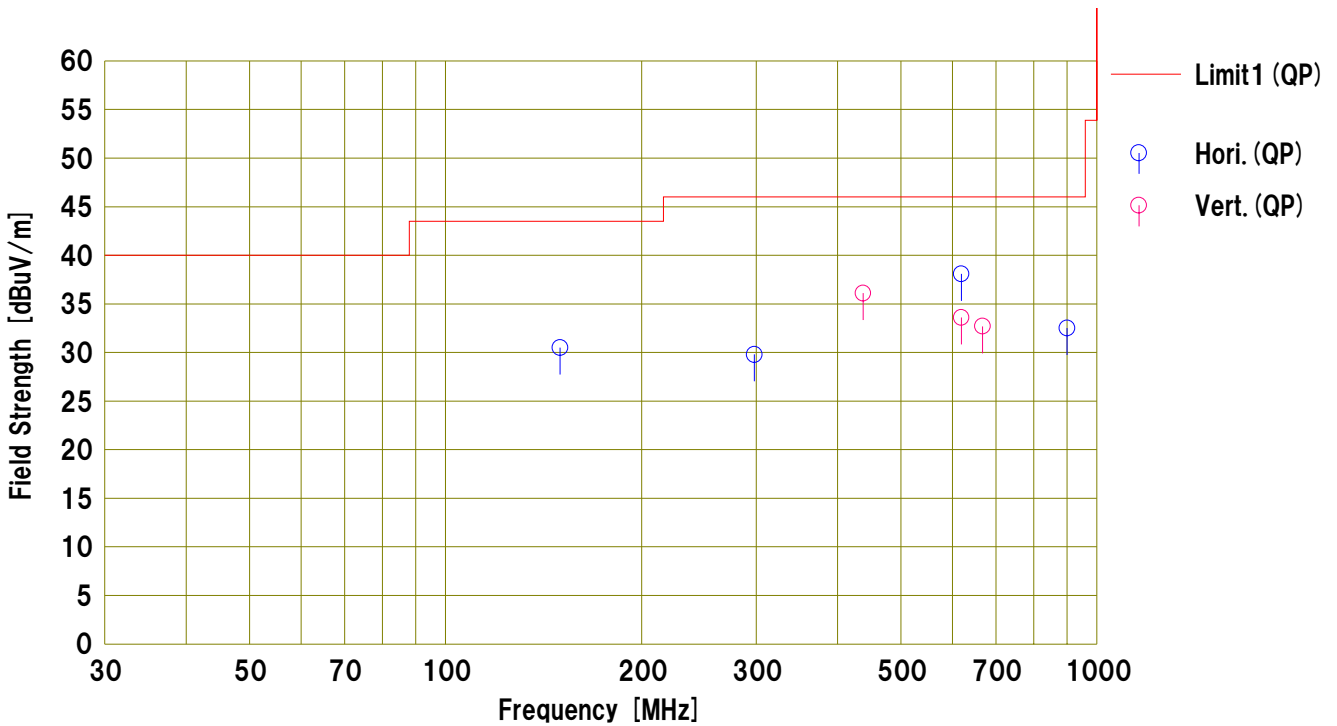
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11b\_2412MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 54%

Remarks : -

Limit1 : FCC15.209 3m

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]				<QP> [dBuV/m]	<QP> [dB]						
1	149.963	40.0	15.0	7.6	32.1	30.5	43.5	13.0	Hori.	242	209	BC	
2	298.004	34.2	19.2	8.4	32.0	29.8	46.0	16.2	Hori.	159	357	BC	
3	619.311	41.1	19.2	9.7	31.9	38.1	46.0	7.9	Hori.	152	123	LP	
4	899.776	31.0	21.8	10.7	31.0	32.5	46.0	13.5	Hori.	162	243	LP	
5	437.510	42.2	16.8	9.0	31.9	36.1	46.0	9.9	Vert.	100	255	LP	
6	619.311	36.6	19.2	9.7	31.9	33.6	46.0	12.4	Vert.	100	179	LP	
7	667.420	34.9	19.8	9.9	31.9	32.7	46.0	13.3	Vert.	172	90	LP	

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber  
Date : 2010/06/24

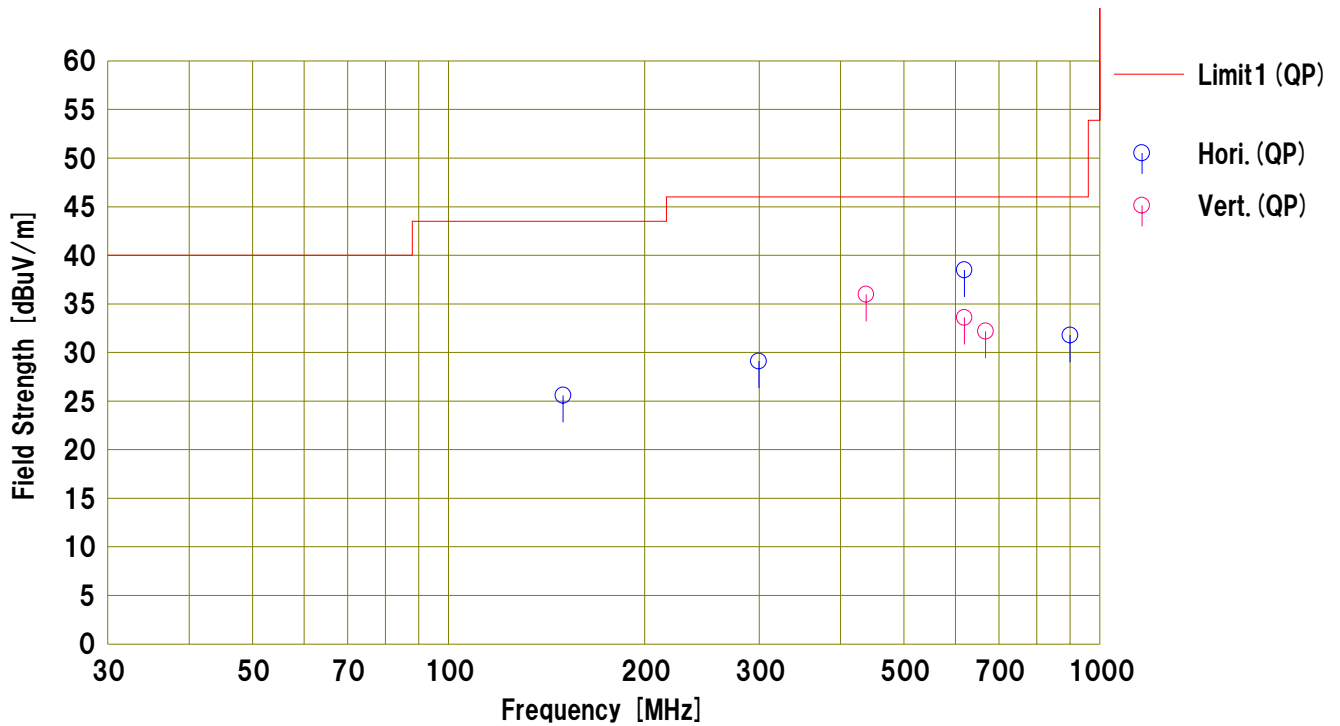
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11b\_2437MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 54%

Remarks : -

Limit1 : FCC15.209 3m

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]				<QP> [dBuV/m]	<QP> [dB]						
1	149.856	35.1	15.0	7.6	32.1	25.6	43.5	17.9	Hori.	206	205	BC	
2	299.567	33.4	19.3	8.4	32.0	29.1	46.0	16.9	Hori.	166	359	BC	
3	619.312	41.5	19.2	9.7	31.9	38.5	46.0	7.5	Hori.	152	132	LP	
4	899.776	30.3	21.8	10.7	31.0	31.8	46.0	14.2	Hori.	255	268	LP	
5	437.510	42.1	16.8	9.0	31.9	36.0	46.0	10.0	Vert.	100	254	LP	
6	619.311	36.6	19.2	9.7	31.9	33.6	46.0	12.4	Vert.	100	182	LP	
7	667.420	34.4	19.8	9.9	31.9	32.2	46.0	13.8	Vert.	183	100	LP	



# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber  
Date : 2010/06/24

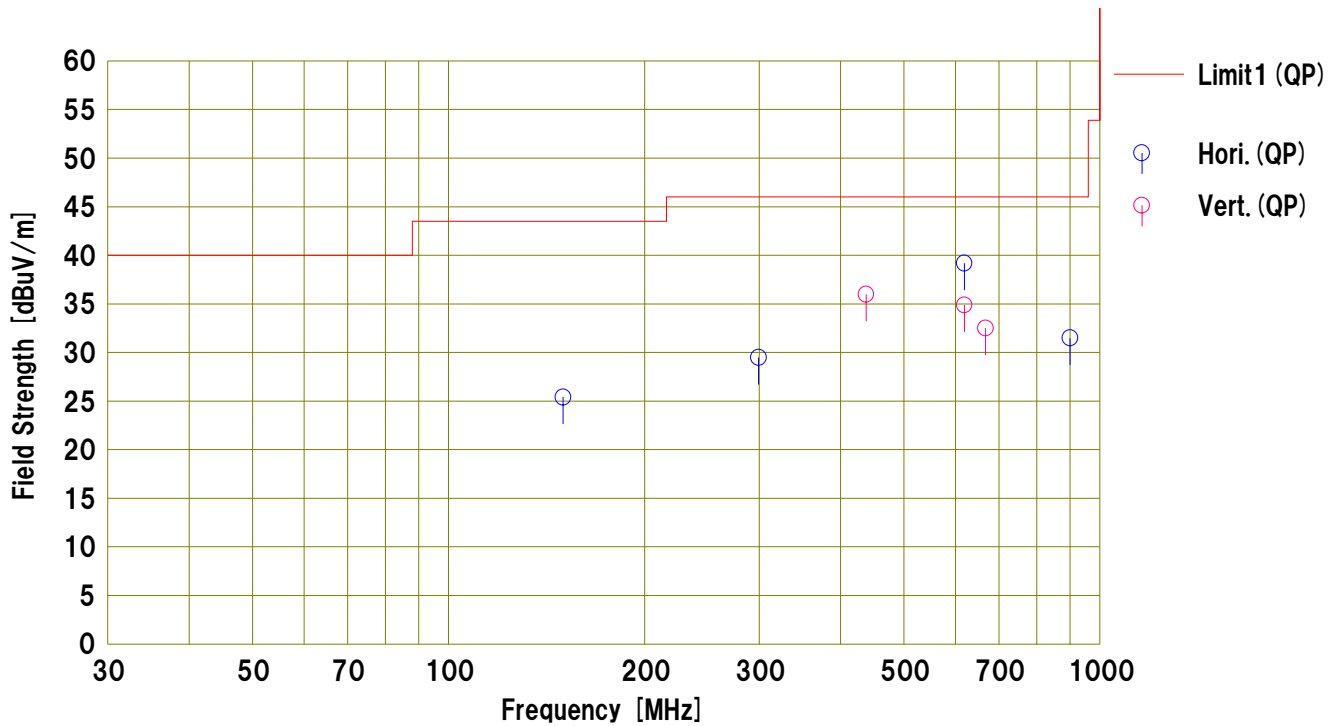
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11b\_2462MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 25deg.C. / 54%

Remarks : -

Limit1 : FCC15.209 3m

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]				<QP> [dBuV/m]	<QP> [dB]						
1	149.856	34.9	15.0	7.6	32.1	25.4	43.5	18.1	Hori.	203	210	BC	
2	299.243	33.8	19.3	8.4	32.0	29.5	46.0	16.5	Hori.	163	359	BC	
3	619.312	42.2	19.2	9.7	31.9	39.2	46.0	6.8	Hori.	138	130	LP	
4	899.776	30.0	21.8	10.7	31.0	31.5	46.0	14.5	Hori.	161	267	LP	
5	437.510	42.1	16.8	9.0	31.9	36.0	46.0	10.0	Vert.	100	254	LP	
6	619.301	37.9	19.2	9.7	31.9	34.9	46.0	11.1	Vert.	100	178	LP	
7	667.458	34.7	19.8	9.9	31.9	32.5	46.0	13.5	Vert.	195	98	LP	

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber  
Date : 2010/06/25

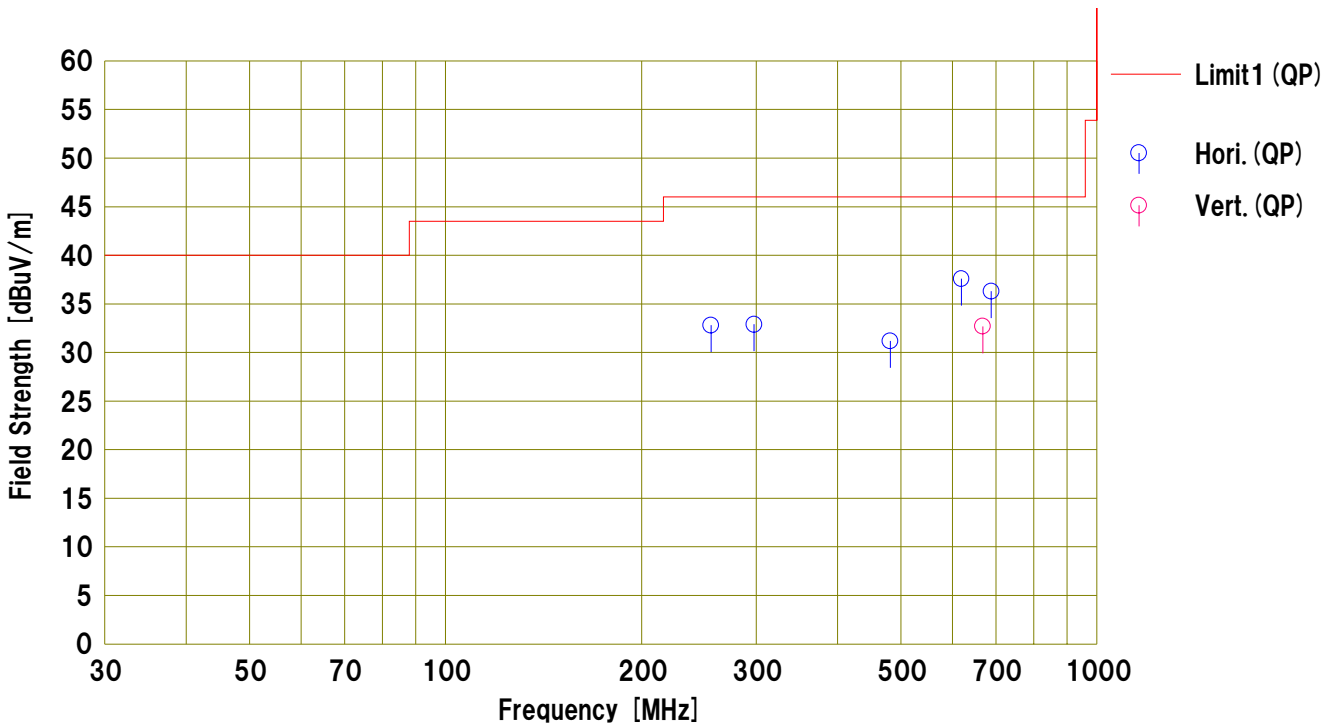
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11g\_2412MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 24deg.C. / 52%

Remarks : -

Limit1 : FCC15.209 3m

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]				<QP> [dBuV/m]	<QP> [dB]						
1	255.593	39.0	17.6	8.2	32.0	32.8	46.0	13.2	Hori.	125	80	BC	
2	297.630	37.3	19.2	8.4	32.0	32.9	46.0	13.1	Hori.	150	5	BC	
3	481.731	36.9	17.0	9.2	31.9	31.2	46.0	14.8	Hori.	100	146	LP	
4	619.330	40.6	19.2	9.7	31.9	37.6	46.0	8.4	Hori.	156	134	LP	
5	688.137	38.1	20.1	10.0	31.9	36.3	46.0	9.7	Hori.	100	81	LP	
6	668.171	34.9	19.8	9.9	31.9	32.7	46.0	13.3	Vert.	100	115	LP	

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber  
Date : 2010/06/25

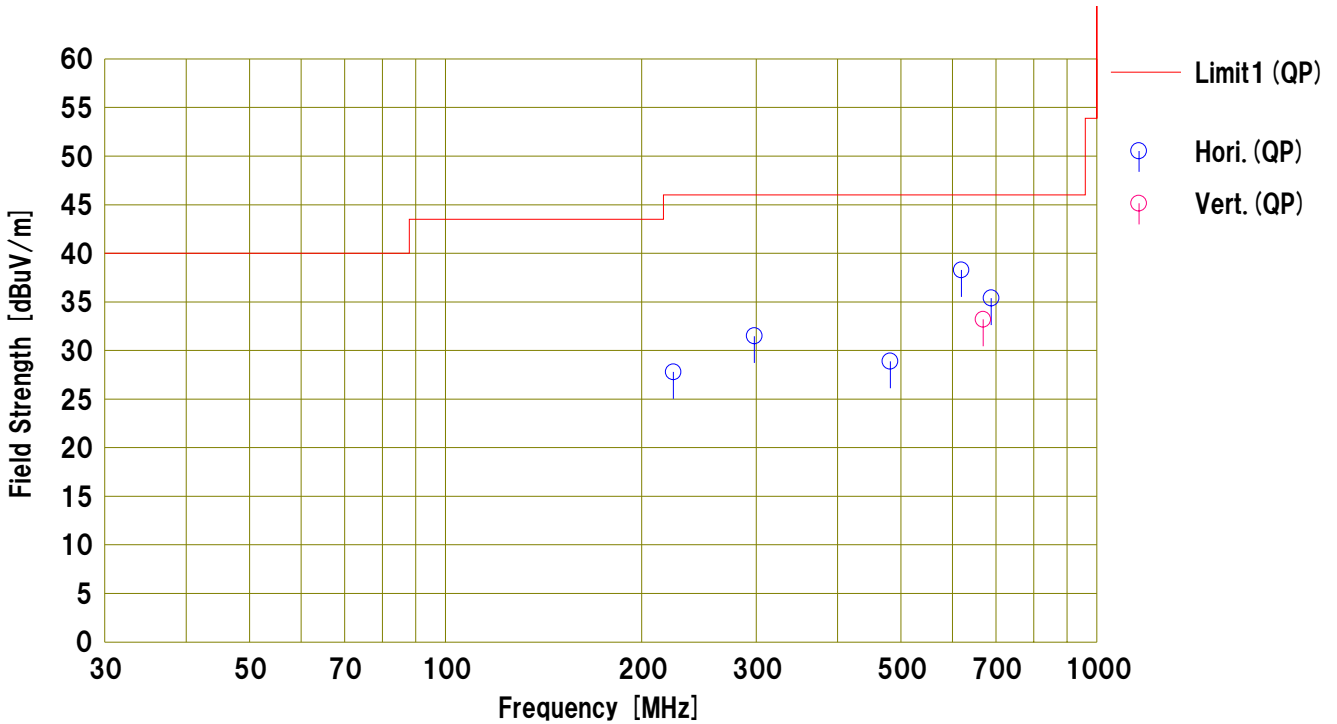
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11g\_2437MHz)  
Report No. : 30IE0112-SH-01-C  
Power : AC120V/60Hz  
Temp./Humi. : 24deg.C. / 52%

Remarks : -

Limit1 : FCC15.209 3m

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]				<QP> [dBuV/m]	<QP> [dB]						
1	223.846	34.7	17.1	8.0	32.0	27.8	46.0	18.2	Hori.	100	70	BC	
2	298.115	35.9	19.2	8.4	32.0	31.5	46.0	14.5	Hori.	113	9	BC	
3	481.724	34.6	17.0	9.2	31.9	28.9	46.0	17.1	Hori.	121	45	LP	
4	619.328	41.3	19.2	9.7	31.9	38.3	46.0	7.7	Hori.	140	130	LP	
5	688.289	37.2	20.1	10.0	31.9	35.4	46.0	10.6	Hori.	188	197	LP	
6	668.643	35.4	19.8	9.9	31.9	33.2	46.0	12.8	Vert.	100	103	LP	

# DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber  
Date : 2010/06/25

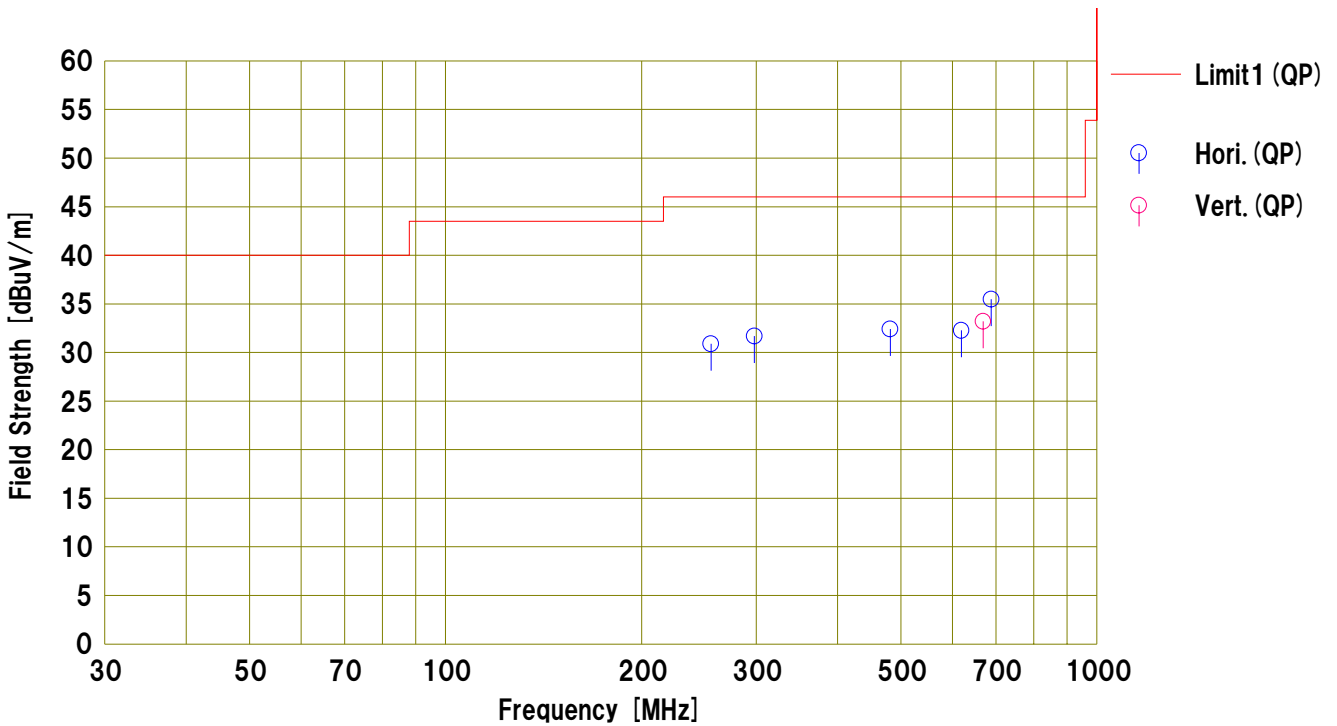
Company : RICOH COMPANY LTD.  
Kind of E.U.T. : Color Copier  
Model No. : Aficio MP C5501  
Serial No. : V9610100004

Mode : Transmitting (802.11g\_2462MHz)  
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Limit1 : FCC15.209 3m

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]				<QP> [dBuV/m]	<QP> [dB]						
1	255.596	37.1	17.6	8.2	32.0	30.9	46.0	15.1	Hori.	125	74	BC	
2	297.943	36.1	19.2	8.4	32.0	31.7	46.0	14.3	Hori.	120	7	BC	
3	481.731	38.1	17.0	9.2	31.9	32.4	46.0	13.6	Hori.	128	221	LP	
4	619.361	35.3	19.2	9.7	31.9	32.3	46.0	13.7	Hori.	100	224	LP	
5	688.194	37.3	20.1	10.0	31.9	35.5	46.0	10.5	Hori.	188	197	LP	
6	668.641	35.4	19.8	9.9	31.9	33.2	46.0	12.8	Vert.	100	197	LP	

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           2010/6/22(1-18GHz), 2010/6/24(18-26.5GHz)  
Temperature / Humidity   23deg.C / 45%, 21deg.C / 53%  
Engineer                    Hikaru Shirasawa, Akio Hayashi  
Mode                         Tx,                           2412 MHz  
                                  11b, 11Mbps

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	1500.000	PK	52.8	24.9	12.6	40.1	50.2	74.0	23.8	114	162	
Hori.	2390.000	PK	52.8	27.6	13.3	40.2	53.5	74.0	20.5	100	37	
Hori.	2400.000	PK	65.7	27.6	13.3	40.2	66.4	74.0	7.6	100	37	
Hori.	4824.000	PK	47.2	30.7	5.6	40.1	43.4	74.0	30.6	100	0	
Hori.	7236.000	PK	45.6	36.0	6.8	38.3	50.1	74.0	23.9	100	0	
Hori.	9648.000	PK	44.7	38.4	7.8	37.4	53.5	74.0	20.5	100	0	
Hori.	12060.000	PK	45.9	39.7	9.0	38.3	56.3	74.0	17.7	100	0	
Hori.	24120.000	PK	49.1	39.7	-2.1	46.7	40.0	74.0	34.0	100	0	Not Detected
Vert.	1500.000	PK	51.5	24.9	12.6	40.1	48.9	74.0	25.1	100	196	
Vert.	2390.000	PK	60.2	27.6	13.3	40.2	60.9	74.0	13.1	100	35	
Vert.	2400.000	PK	66.0	27.6	13.3	40.2	66.7	74.0	7.3	100	35	
Vert.	4824.000	PK	50.7	30.7	5.6	40.1	46.9	74.0	27.1	100	12	
Vert.	7236.000	PK	46.9	36.0	6.8	38.3	51.4	74.0	22.6	100	0	
Vert.	9648.000	PK	43.6	38.4	7.8	37.4	52.4	74.0	21.6	100	0	
Vert.	12060.000	PK	46.3	39.7	9.0	38.3	56.7	74.0	17.3	100	0	
Vert.	24120.000	PK	49.0	39.7	-2.1	46.7	39.9	74.0	34.1	100	0	Not Detected
Hori.	1500.000	AV	35.7	24.9	12.6	40.1	33.1	54.0	20.9	114	162	VBW:10Hz
Hori.	2390.000	AV	33.3	27.6	13.3	40.2	34.0	54.0	20.0	100	37	VBW:36Hz
Hori.	2400.000	AV	37.9	27.6	13.3	40.2	38.6	54.0	15.4	100	37	VBW:36Hz
Hori.	4824.000	AV	32.2	30.7	5.6	40.1	28.4	54.0	25.6	100	0	VBW:36Hz
Hori.	7236.000	AV	31.7	36.0	6.8	38.3	36.2	54.0	17.8	100	0	VBW:36Hz
Hori.	9648.000	AV	30.0	38.4	7.8	37.4	38.8	54.0	15.2	100	0	VBW:36Hz
Hori.	12060.000	AV	31.6	39.7	9.0	38.3	42.0	54.0	12.0	100	0	VBW:36Hz
Hori.	24120.000	AV	37.5	39.7	-2.1	46.7	28.4	54.0	25.6	100	0	Not Detected
Vert.	1500.000	AV	42.9	24.9	12.6	40.1	40.3	54.0	13.7	100	196	VBW:10Hz
Vert.	2390.000	AV	33.6	27.6	13.3	40.2	34.3	54.0	19.7	100	35	VBW:36Hz
Vert.	2400.000	AV	39.4	27.6	13.3	40.2	40.1	54.0	13.9	100	35	VBW:36Hz
Vert.	4824.000	AV	33.0	30.7	5.6	40.1	29.2	54.0	24.8	100	12	VBW:36Hz
Vert.	7236.000	AV	31.5	36.0	6.8	38.3	36.0	54.0	18.0	100	0	VBW:36Hz
Vert.	9648.000	AV	30.0	38.4	7.8	37.4	38.8	54.0	15.2	100	0	VBW:36Hz
Vert.	12060.000	AV	31.6	39.7	9.0	38.3	42.0	54.0	12.0	100	0	VBW:36Hz
Vert.	24120.000	AV	37.4	39.7	-2.1	46.7	28.3	54.0	25.7	100	0	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor:           13GHz-40GHz                   20log(3.0m/1.0m)= 9.5dB

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           2010/6/22(1-18GHz), 2010/6/24(18-26.5GHz)  
Temperature / Humidity    23deg.C / 45%, 21deg.C. / 53%  
Engineer                    Hikaru Shirasawa, Akio Hayashi  
Mode                         Tx,                           2437 MHz  
                                  11b, 11Mbps

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	1500.000	PK	52.5	24.9	12.6	40.1	49.9	74.0	24.1	100	159	
Hori.	4874.000	PK	45.7	30.8	5.6	40.0	42.1	74.0	31.9	100	0	
Hori.	7311.000	PK	45.5	36.0	6.9	38.5	49.9	74.0	24.1	100	0	
Hori.	9748.000	PK	43.3	38.4	7.8	37.4	52.1	74.0	21.9	100	0	
Hori.	12060.000	PK	46.2	39.7	9.0	38.3	56.6	74.0	17.4	100	0	
Hori.	24370.000	PK	48.7	40.0	-2.1	46.6	40.0	74.0	34.0	100	0	Not Detected
Vert.	1500.000	PK	49.3	24.9	12.6	40.1	46.7	74.0	27.3	100	209	
Vert.	4874.000	PK	48.2	30.8	5.6	40.0	44.6	74.0	29.4	100	12	
Vert.	7311.000	PK	44.2	36.0	6.9	38.5	48.6	74.0	25.4	100	0	
Vert.	9748.000	PK	44.5	38.4	7.8	37.4	53.3	74.0	20.7	100	0	
Vert.	12060.000	PK	44.7	39.7	9.0	38.3	55.1	74.0	18.9	100	0	
Vert.	24370.000	PK	49.3	40.0	-2.1	46.6	40.6	74.0	33.4	100	0	Not Detected
Hori.	1500.000	AV	35.8	24.9	12.6	40.1	33.2	54.0	20.8	100	159	VBW:10Hz
Hori.	4874.000	AV	31.9	30.8	5.6	40.0	28.3	54.0	25.7	100	0	VBW:36Hz
Hori.	7311.000	AV	31.3	36.0	6.9	38.5	35.7	54.0	18.3	100	0	VBW:36Hz
Hori.	9748.000	AV	30.1	38.4	7.8	37.4	38.9	54.0	15.1	100	0	VBW:36Hz
Hori.	12060.000	AV	31.6	39.7	9.0	38.3	42.0	54.0	12.0	100	0	VBW:36Hz
Hori.	24370.000	AV	37.7	40.0	-2.1	46.6	29.0	54.0	25.0	100	0	Not Detected
Vert.	1500.000	AV	42.1	24.9	12.6	40.1	39.5	54.0	14.5	100	209	VBW:10Hz
Vert.	4874.000	AV	33.0	30.8	5.6	40.0	29.4	54.0	24.6	100	12	VBW:36Hz
Vert.	7311.000	AV	31.5	36.0	6.9	38.5	35.9	54.0	18.1	100	0	VBW:36Hz
Vert.	9748.000	AV	30.2	38.4	7.8	37.4	39.0	54.0	15.0	100	0	VBW:36Hz
Vert.	12060.000	AV	31.7	39.7	9.0	38.3	42.1	54.0	11.9	100	0	VBW:36Hz
Vert.	24370.000	AV	37.7	40.0	-2.1	46.6	29.0	54.0	25.0	100	0	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor:           13GHz-40GHz                   20log(3.0m/1.0m)= 9.5dB

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           2010/6/22(1-18GHz), 2010/6/24(18-26.5GHz)  
Temperature / Humidity    23deg.C / 45%, 21deg.C / 53%  
Engineer                    Hikaru Shirasawa, Akio Hayashi  
Mode                         Tx,                         2462 MHz  
                                  11b, 11Mbps

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	1500.000	PK	52.6	24.9	12.6	40.1	50.0	74.0	24.0	100	157	
Hori.	2483.500	PK	58.4	27.9	13.4	40.1	59.6	74.0	14.4	100	45	
Hori.	4924.000	PK	47.1	31.0	5.6	40.0	43.7	74.0	30.3	100	0	
Hori.	7386.000	PK	46.2	35.9	7.0	38.6	50.5	74.0	23.5	100	0	
Hori.	9848.000	PK	44.7	38.3	8.0	37.5	53.5	74.0	20.5	100	0	
Hori.	12310.000	PK	45.1	39.7	9.3	38.0	56.1	74.0	17.9	100	0	
Hori.	24620.000	PK	46.9	40.2	-2.1	46.5	38.5	74.0	35.5	100	0	Not Detected
Vert.	1500.000	PK	49.2	24.9	12.6	40.1	46.6	74.0	27.4	100	204	
Vert.	2483.500	PK	65.1	27.9	13.4	40.1	66.3	74.0	7.7	100	43	
Vert.	4924.000	PK	46.9	31.0	5.6	40.0	43.5	74.0	30.5	100	0	
Vert.	7386.000	PK	46.1	35.9	7.0	38.6	50.4	74.0	23.6	100	0	
Vert.	9848.000	PK	44.1	38.3	8.0	37.5	52.9	74.0	21.1	100	0	
Vert.	12310.000	PK	44.7	39.7	9.3	38.0	55.7	74.0	18.3	100	0	
Vert.	24620.000	PK	46.7	40.2	-2.1	46.5	38.3	74.0	35.7	100	0	Not Detected
Hori.	1500.000	AV	35.8	24.9	12.6	40.1	33.2	54.0	20.8	100	157	VBW:10Hz
Hori.	2483.500	AV	35.1	27.9	13.4	40.1	36.3	54.0	17.7	100	45	VBW:36Hz
Hori.	4924.000	AV	32.0	31.0	5.6	40.0	28.6	54.0	25.4	100	0	VBW:36Hz
Hori.	7386.000	AV	31.8	35.9	7.0	38.6	36.1	54.0	17.9	100	0	VBW:36Hz
Hori.	9848.000	AV	30.3	38.3	8.0	37.5	39.1	54.0	14.9	100	0	VBW:36Hz
Hori.	12310.000	AV	30.9	39.7	9.3	38.0	41.9	54.0	12.1	100	0	VBW:36Hz
Hori.	24620.000	AV	35.4	40.2	-2.1	46.5	27.0	54.0	27.0	100	0	Not Detected
Vert.	1500.000	AV	40.0	24.9	12.6	40.1	37.4	54.0	16.6	100	204	VBW:10Hz
Vert.	2483.500	AV	38.2	27.9	13.4	40.1	39.4	54.0	14.6	100	43	VBW:36Hz
Vert.	4924.000	AV	32.1	31.0	5.6	40.0	28.7	54.0	25.3	100	0	VBW:36Hz
Vert.	7386.000	AV	31.5	35.9	7.0	38.6	35.8	54.0	18.2	100	0	VBW:36Hz
Vert.	9848.000	AV	30.2	38.3	8.0	37.5	39.0	54.0	15.0	100	0	VBW:36Hz
Vert.	12310.000	AV	30.9	39.7	9.3	38.0	41.9	54.0	12.1	100	0	VBW:36Hz
Vert.	24620.000	AV	35.5	40.2	-2.1	46.5	27.1	54.0	26.9	100	0	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor:           13GHz-40GHz                   20log(3.0m/1.0m)= 9.5dB

### Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
 Date                         2010/6/22(1-18GHz), 2010/6/24(18-26.5GHz)  
 Temperature / Humidity   23deg.C / 45%, 21deg.C / 53%  
 Engineer                  Hikaru Shirasawa, Akio Hayashi  
 Mode                        Tx,                         2412 MHz  
                                   11g, 54Mbps

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	1500.000	PK	53.9	24.9	12.6	40.1	51.3	74.0	22.7	100	100	
Hori.	2390.000	PK	63.0	27.6	13.3	40.2	63.7	74.0	10.3	100	47	
Hori.	2400.000	PK	68.3	27.6	13.3	40.2	69.0	-	-	100	47	See 20dBc Data sheet
Hori.	4824.000	PK	47.6	30.7	5.6	40.1	43.8	74.0	30.2	100	0	
Hori.	7236.000	PK	48.4	36.0	6.8	38.3	52.9	74.0	21.1	100	0	
Hori.	9648.000	PK	47.2	38.4	7.8	37.4	56.0	74.0	18.0	100	0	
Hori.	12060.000	PK	48.1	39.7	9.0	38.3	58.5	74.0	15.5	100	0	
Hori.	24120.000	PK	46.8	39.7	-2.1	46.7	37.7	74.0	36.3	100	0	Not Detected
Vert.	1500.000	PK	53.5	24.9	12.6	40.1	50.9	74.0	23.1	100	194	
Vert.	2390.000	PK	68.3	27.6	13.3	40.2	69.0	74.0	5.0	100	68	
Vert.	2400.000	PK	72.8	27.6	13.3	40.2	73.5	-	-	100	68	See 20dBc Data sheet
Vert.	4824.000	PK	50.4	30.7	5.6	40.1	46.6	74.0	27.4	100	0	
Vert.	7236.000	PK	47.4	36.0	6.8	38.3	51.9	74.0	22.1	100	0	
Vert.	9648.000	PK	47.1	38.4	7.8	37.4	55.9	74.0	18.1	100	0	
Vert.	12060.000	PK	48.3	39.7	9.0	38.3	58.7	74.0	15.3	100	0	
Vert.	24120.000	PK	47.5	39.7	-2.1	46.7	38.4	74.0	35.6	100	0	Not Detected
Hori.	1500.000	AV	38.0	24.9	12.6	40.1	35.4	54.0	18.6	100	100	VBW:10Hz
Hori.	2390.000	AV	33.0	27.6	13.3	40.2	33.7	54.0	20.3	100	47	VBW:40Hz
Hori.	2400.000	AV	34.6	27.6	13.3	40.2	35.3	-	-	100	47	See 20dBc Data sheet
Hori.	4824.000	AV	33.8	30.7	5.6	40.1	30.0	54.0	24.0	100	0	VBW:40Hz
Hori.	7236.000	AV	33.5	36.0	6.8	38.3	38.0	54.0	16.0	100	0	VBW:40Hz
Hori.	9648.000	AV	31.8	38.4	7.8	37.4	40.6	54.0	13.4	100	0	VBW:40Hz
Hori.	12060.000	AV	33.4	39.7	9.0	38.3	43.8	54.0	10.2	100	0	VBW:40Hz
Hori.	24120.000	AV	36.0	39.7	-2.1	46.7	26.9	54.0	27.1	100	0	Not Detected
Vert.	1500.000	AV	43.8	24.9	12.6	40.1	41.2	54.0	12.8	100	194	VBW:10Hz
Vert.	2390.000	AV	34.5	27.6	13.3	40.2	35.2	54.0	18.8	100	68	VBW:40Hz
Vert.	2400.000	AV	36.0	27.6	13.3	40.2	36.7	-	-	100	68	See 20dBc Data sheet
Vert.	4824.000	AV	33.6	30.7	5.6	40.1	29.8	54.0	24.2	100	0	VBW:40Hz
Vert.	7236.000	AV	33.2	36.0	6.8	38.3	37.7	54.0	16.3	100	0	VBW:40Hz
Vert.	9648.000	AV	31.7	38.4	7.8	37.4	40.5	54.0	13.5	100	0	VBW:40Hz
Vert.	12060.000	AV	33.3	39.7	9.0	38.3	43.7	54.0	10.3	100	0	VBW:40Hz
Vert.	24120.000	AV	36.0	39.7	-2.1	46.7	26.9	54.0	27.2	100	0	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor:           13GHz-40GHz                   20log(3.0m/1.0m)= 9.5dB

**20dBc Data Sheet (RBW 100kHz, VBW 300kHz)**

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2412.000	PK	85.4	27.7	13.3	40.2	86.2	-	-	Carrier
Hori.	2400.000	PK	51.1	27.6	13.3	40.2	51.8	66.2	14.4	
Vert.	2412.000	PK	93.2	27.7	13.3	40.2	94.0	-	-	Carrier
Vert.	2400.000	PK	52.2	27.6	13.3	40.2	52.9	74.0	21.1	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)



## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           2010/6/22(1-18GHz), 2010/6/24(18-26.5GHz)  
Temperature / Humidity   23deg.C / 45%, 21deg.C. / 53%  
Engineer                    Hikaru Shirasawa, Akio Hayashi  
Mode                         Tx,                           2437 MHz  
                                  11g, 54Mbps

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	1500.000	PK	55.8	24.9	12.6	40.1	53.2	74.0	20.8	100	130	
Hori.	4874.000	PK	45.7	30.8	5.6	40.0	42.1	74.0	31.9	100	0	
Hori.	7311.000	PK	46.3	36.0	6.9	38.5	50.7	74.0	23.3	100	0	
Hori.	9748.000	PK	45.6	38.4	7.8	37.4	54.4	74.0	19.6	100	0	
Hori.	12185.000	PK	46.0	39.7	9.1	38.2	56.6	74.0	17.4	100	0	
Hori.	24370.000	PK	48.0	40.0	7.4	46.6	48.8	83.5	34.7	100	0	Not Detected
Vert.	1500.000	PK	52.5	24.9	12.6	40.1	49.9	74.0	24.1	100	198	
Vert.	4874.000	PK	47.8	30.8	5.6	40.0	44.2	74.0	29.8	100	0	
Vert.	7311.000	PK	47.4	36.0	6.9	38.5	51.8	74.0	22.2	100	0	
Vert.	9748.000	PK	44.7	38.4	7.8	37.4	53.5	74.0	20.5	100	0	
Vert.	12185.000	PK	43.8	39.7	9.1	38.2	54.4	74.0	19.6	100	0	
Vert.	24370.000	PK	47.0	40.0	7.4	46.6	47.8	83.5	35.7	100	0	Not Detected
Hori.	1500.000	AV	37.1	24.9	12.6	40.1	34.5	54.0	19.5	100	130	VBW:10Hz
Hori.	4874.000	AV	31.9	30.8	5.6	40.0	28.3	54.0	25.7	100	0	VBW:40Hz
Hori.	7311.000	AV	31.6	36.0	6.9	38.5	36.0	54.0	18.0	100	0	VBW:40Hz
Hori.	9748.000	AV	30.3	38.4	7.8	37.4	39.1	54.0	14.9	100	0	VBW:40Hz
Hori.	12185.000	AV	31.5	39.7	9.1	38.2	42.1	54.0	11.9	100	0	VBW:40Hz
Hori.	24370.000	AV	36.1	40.0	7.4	46.6	36.9	63.5	26.6	100	0	Not Detected
Vert.	1500.000	AV	42.5	24.9	12.6	40.1	39.9	54.0	14.1	100	198	VBW:10Hz
Vert.	4874.000	AV	33.1	30.8	5.6	40.0	29.5	54.0	24.5	100	0	VBW:40Hz
Vert.	7311.000	AV	32.7	36.0	6.9	38.5	37.1	54.0	16.9	100	0	VBW:40Hz
Vert.	9748.000	AV	30.1	38.4	7.8	37.4	38.9	54.0	15.1	100	0	VBW:40Hz
Vert.	12185.000	AV	30.0	39.7	9.1	38.2	40.6	54.0	13.4	100	0	VBW:40Hz
Vert.	24370.000	AV	36.1	40.0	7.4	46.6	36.9	63.5	26.6	100	0	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor:           13GHz-40GHz           20log(3.0m/1.0m)= 9.5dB

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           2010/6/22(1-18GHz), 2010/6/24(18-26.5GHz)  
Temperature / Humidity    23deg.C / 45%, 21deg.C. / 53%  
Engineer                    Hikaru Shirasawa, Akio Hayashi  
Mode                         Tx,                           2462 MHz  
                                  11g, 54Mbps

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	1500.000	PK	54.4	24.9	12.6	40.1	51.8	74.0	22.2	100	185	
Hori.	2483.500	PK	62.8	27.9	13.4	40.1	64.0	74.0	10.0	100	0	
Hori.	4924.000	PK	45.9	31.0	5.6	40.0	42.5	74.0	31.5	100	359	
Hori.	7386.000	PK	45.0	35.9	7.0	38.6	49.3	74.0	24.7	100	359	
Hori.	9848.000	PK	44.6	38.3	8.0	37.5	53.4	74.0	20.6	100	0	
Hori.	12310.000	PK	45.7	39.7	9.3	38.0	56.7	74.0	17.3	100	0	
Hori.	24620.000	PK	46.3	40.2	-2.1	46.5	37.9	74.0	36.1	100	0	Not Detected
Vert.	1500.000	PK	51.6	24.9	12.6	40.1	49.0	74.0	25.0	100	223	
Vert.	2483.500	PK	67.6	27.9	13.4	40.1	68.8	74.0	5.2	100	61	
Vert.	4924.000	PK	46.7	31.0	5.6	40.0	43.3	74.0	30.7	100	60	
Vert.	7386.000	PK	46.0	35.9	7.0	38.6	50.3	74.0	23.7	100	0	
Vert.	9848.000	PK	44.6	38.3	8.0	37.5	53.4	74.0	20.6	100	0	
Vert.	12310.000	PK	45.3	39.7	9.3	38.0	56.3	74.0	17.7	100	359	
Vert.	24620.000	PK	46.7	40.2	-2.1	46.5	38.3	74.0	35.7	100	0	Not Detected
Hori.	1500.000	AV	38.3	24.9	12.6	40.1	35.7	54.0	18.3	100	185	VBW:10Hz
Hori.	2483.500	AV	33.3	27.9	13.4	40.1	34.5	54.0	19.5	100	0	VBW:40Hz
Hori.	4924.000	AV	32.5	31.0	5.6	40.0	29.1	54.0	24.9	100	359	VBW:40Hz
Hori.	7386.000	AV	32.3	35.9	7.0	38.6	36.6	54.0	17.4	100	359	VBW:40Hz
Hori.	9848.000	AV	31.0	38.3	8.0	37.5	39.8	54.0	14.2	100	0	VBW:40Hz
Hori.	12310.000	AV	31.5	39.7	9.3	38.0	42.5	54.0	11.5	100	0	VBW:40Hz
Hori.	24620.000	AV	35.4	40.2	-2.1	46.5	27.0	54.0	27.0	100	0	Not Detected
Vert.	1500.000	AV	45.2	24.9	12.6	40.1	42.6	54.0	11.4	100	223	VBW:10Hz
Vert.	2483.500	AV	35.4	27.9	13.4	40.1	36.6	54.0	17.4	100	61	VBW:40Hz
Vert.	4924.000	AV	31.8	31.0	5.6	40.0	28.4	54.0	25.6	100	60	VBW:40Hz
Vert.	7386.000	AV	32.4	35.9	7.0	38.6	36.7	54.0	17.3	100	0	VBW:40Hz
Vert.	9848.000	AV	30.9	38.3	8.0	37.5	39.7	54.0	14.3	100	0	VBW:40Hz
Vert.	12310.000	AV	31.4	39.7	9.3	38.0	42.4	54.0	11.6	100	359	VBW:40Hz
Vert.	24620.000	AV	35.4	40.2	-2.1	46.5	27.0	54.0	27.0	100	0	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

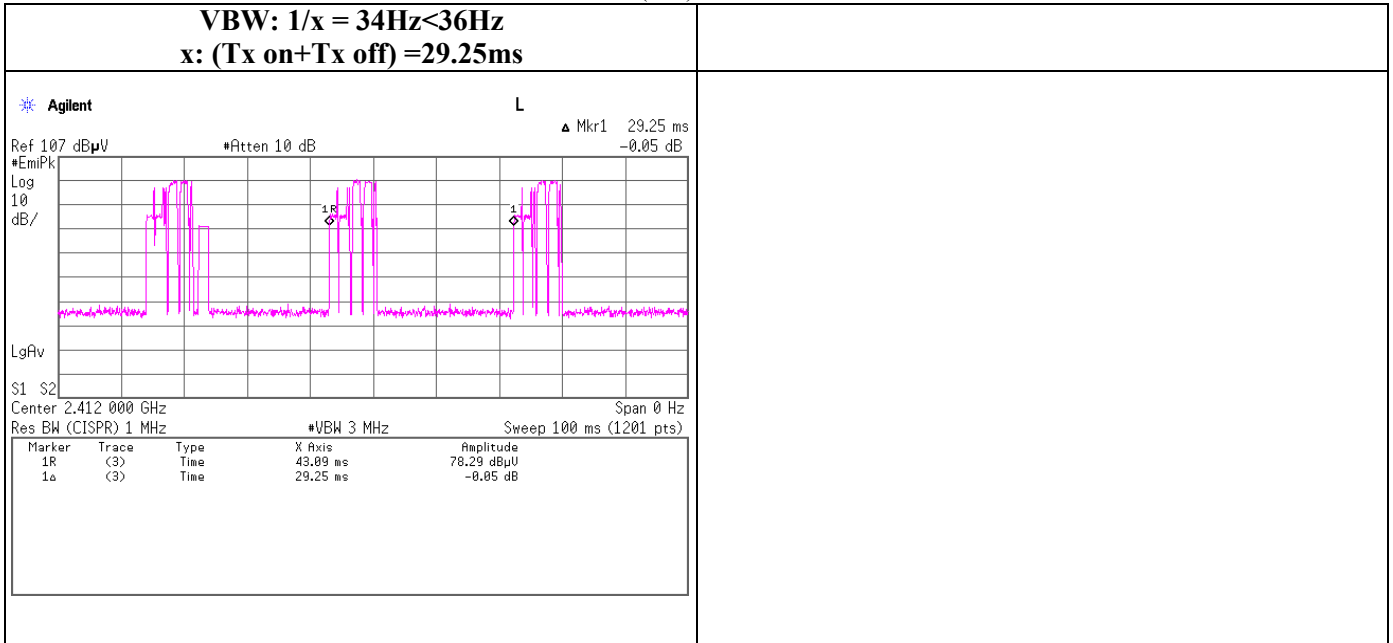
\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor:           13GHz-40GHz                   20log(3.0m/1.0m)= 9.5dB

### Spurious emission (Radiated)

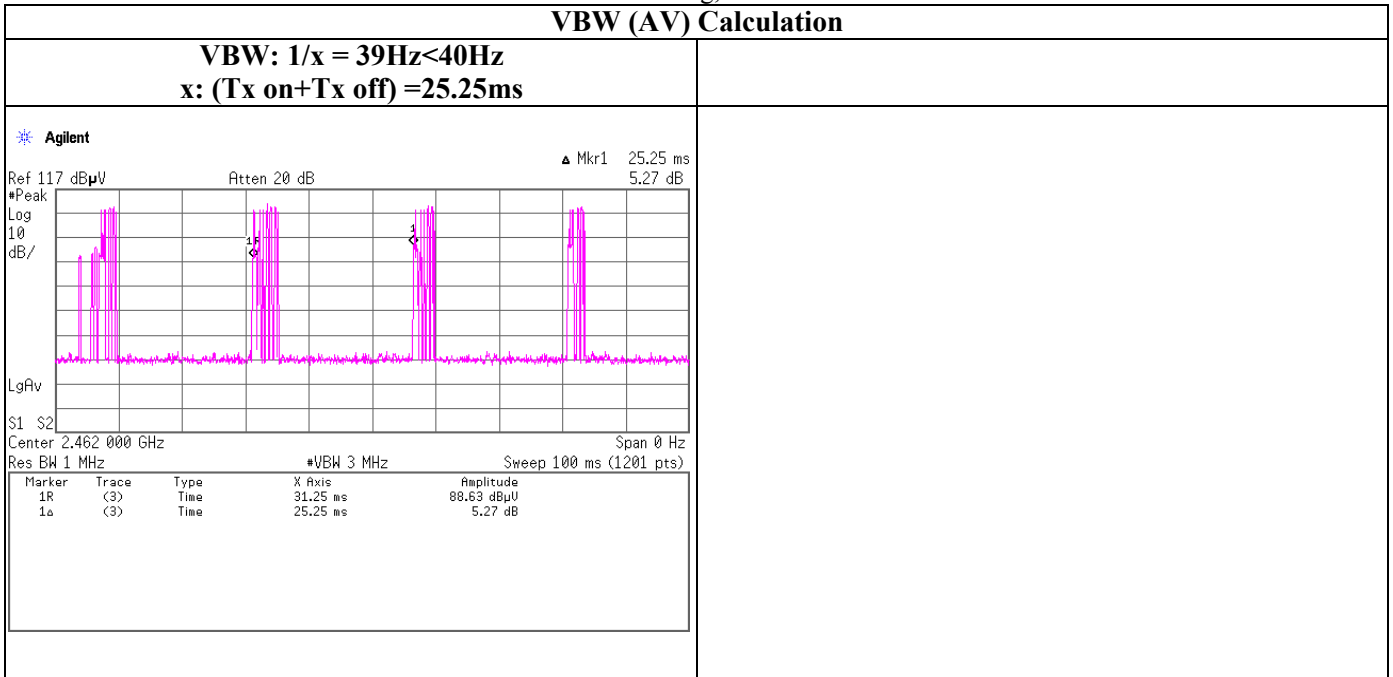
11b,

VBW (AV) Calculation



11g,

VBW (AV) Calculation



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### APPENDIX 3 Test Instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2010/02/06 * 12
SAT6-03	Attenuator	JFW	50HF-006N	-	RE	2010/02/06 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2010/03/22 * 12
SCC-C1/C2/C3/C4/C5/C10/SRSE-03	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	--/0901-271(RF Selector)	RE	2010/04/02 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A0901	RE	2010/03/22 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2010/02/09 * 12
STR-03	Test Receiver	Rohde & Schwarz	ESI40	100054/040	RE	2010/04/12 * 24
SJM-07	Measure	PROMART	SEN1935	-	RE	-
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2009/09/18 * 12
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV	-	RE/CE	-
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2010/03/09 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	RE	2010/04/16 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	2010/05/27 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2009/08/23 * 12
SJM-10	Measure	PROMART	SEN1935	-	RE	-
SSA-03	Spectrum Analyzer	Agilent	E4448A	MY48250152	RE	2009/06/09 * 24
SSA-01	Spectrum Analyzer	Agilent	N9010A-526	MY48031482	RE	2010/04/05 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2010/03/29 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	2010/03/02 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	2010/03/02 * 12
STR-01	Test Receiver	Rohde & Schwarz	ESU40	100093	RE	2009/04/02 * 24
STR-04	Test Receiver	Rohde & Schwarz	ESVS30	826638/003	RE	2009/11/13 * 12
SAT10-04	Attenuator(above1GHz)	Agilent	8493C-010	74863	RE	2010/03/05 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2009/12/04 * 12
SCC-05/06	Coaxial Cable	Fujikura	5D2W	-	CE	2010/04/09 * 12
SLS-06	LISN	Schwarzbeck	NSLK8126	8126440	CE(EUT)	2010/03/29 * 12
SAT3-06	Attenuator	JFW	50HF-003N	-	CE	2010/02/06 * 12
SHF-01	Highpass Filter	Rohde & Schwarz	EZ-25	100021	CE	2010/03/29 * 12
SSA-01	Spectrum Analyzer	Agilent	N9010A-526	MY48031482	CE	2010/04/05 * 12
STR-05	Test Receiver	Rohde & Schwarz	ESHS20	827129/007	CE	2009/11/13 * 12
SLS-05	LISN	Rohde & Schwarz	ENV216	100516	CE(AE)	2010/02/19 * 12
STM-07	Terminator	TME	CT-01 BP	-	CE	2010/01/08 * 12
SOS-06	Humidity Indicator	A&D	AD-5681	4062118	CE	2010/02/17 * 12

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

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

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

Test Item :

CE: Conducted emission,

RE: Radiated emission,

## 1.model difference specification

Model (RICOH)	Print speed/minutes
Aficio MP C3001 Aficio MP C3001G	30
Aficio MP C3501 Aficio MP C3501G	35
Aficio MP C4501 Aficio MP C4501G	45
Aficio MP C5501 Aficio MP C5501G	55

The model difference is a print speed.

As for the difference between Aficio MP Cxxxx and Aficio MP CxxxxG, the production factory is different.

## 2.model name by brand

Model (RICOH)	Brand name	OEM model
Aficio MP C3001	Lanier	LD630C
	Savin	C9130
Aficio MP C3001G	Lanier	LD630CG
	Savin	C9130G
Aficio MP C3501	Lanier	LD635C
	Savin	C9135
Aficio MP C3501G	Lanier	LD635CG
	Savin	C9135G
Aficio MP C4501	Lanier	LD645C
	Savin	C9145
Aficio MP C4501G	Lanier	LD645CG
	Savin	C9145G
Aficio MP C5501	Lanier	LD655C
	Savin	C9155
Aficio MP C5501G	Lanier	LD655CG
	Savin	C9155G