

Conducted Emission

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

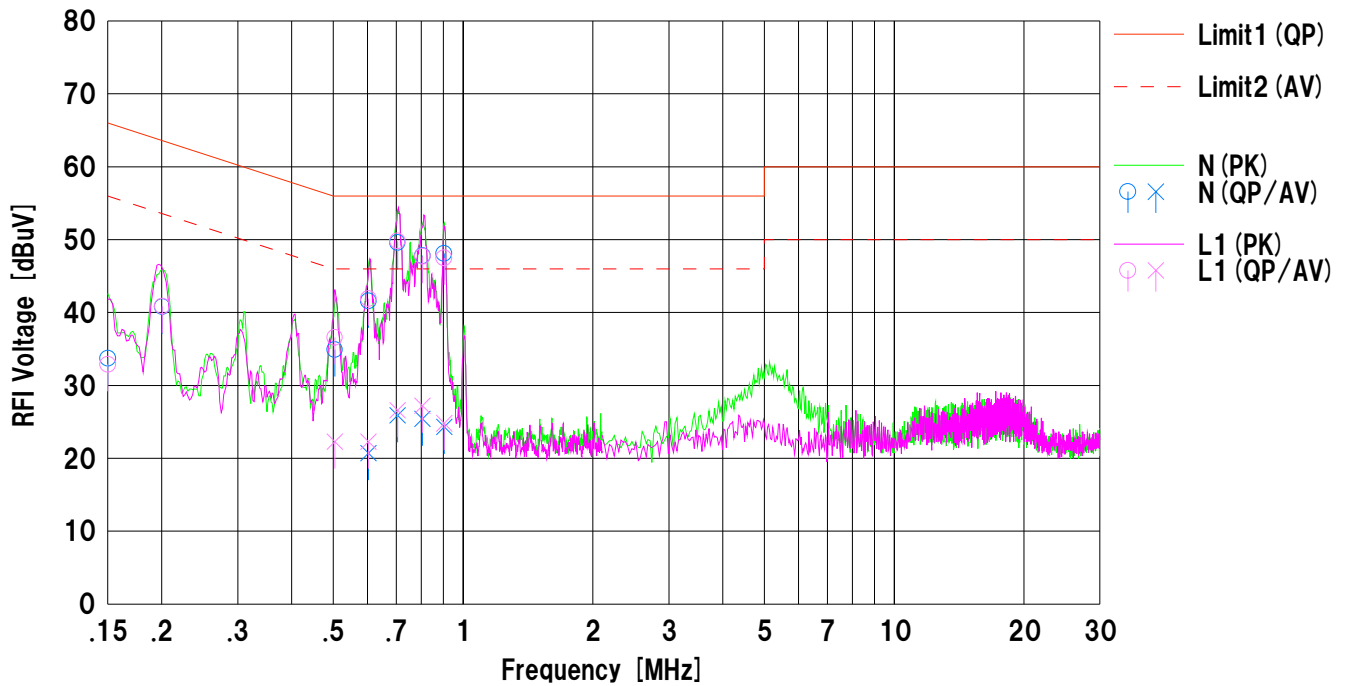
Company : RICOH COMPANY LTD.
Kind of E.U.T. : Color Copier
Model No. : Aficio MP C5501
Serial No. : V9610100004

Mode : Transmitting (DH5.2441MHz)
Report No. : 30IE0112-SH-01-B
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	19.8	---	13.9	33.7	---	66.0	56.0	32.3	---	N	
2	0.20040	27.9	---	12.9	40.8	---	63.6	53.6	22.8	---	N	
3	0.50380	22.3	---	12.6	34.9	---	56.0	46.0	21.1	---	N	
4	0.60322	29.0	8.1	12.6	41.6	20.7	56.0	46.0	14.4	25.3	N	
5	0.70414	37.0	13.3	12.6	49.6	25.9	56.0	46.0	6.4	20.1	N	
6	0.80512	35.2	12.8	12.6	47.8	25.4	56.0	46.0	8.2	20.6	N	
7	0.90373	35.5	11.7	12.6	48.1	24.3	56.0	46.0	7.9	21.7	N	
8	0.15000	19.0	---	13.9	32.9	---	66.0	56.0	33.1	---	L1	
9	0.20040	28.0	---	12.9	40.9	---	63.6	53.6	22.7	---	L1	
10	0.50380	24.0	9.7	12.6	36.6	22.3	56.0	46.0	19.4	23.7	L1	
11	0.60322	29.3	9.7	12.6	41.9	22.3	56.0	46.0	14.1	23.7	L1	
12	0.70414	37.2	14.0	12.6	49.8	26.6	56.0	46.0	6.2	19.4	L1	
13	0.80512	35.1	14.6	12.6	47.7	27.2	56.0	46.0	8.3	18.8	L1	
14	0.90373	34.9	12.2	12.6	47.5	24.8	56.0	46.0	8.5	21.2	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

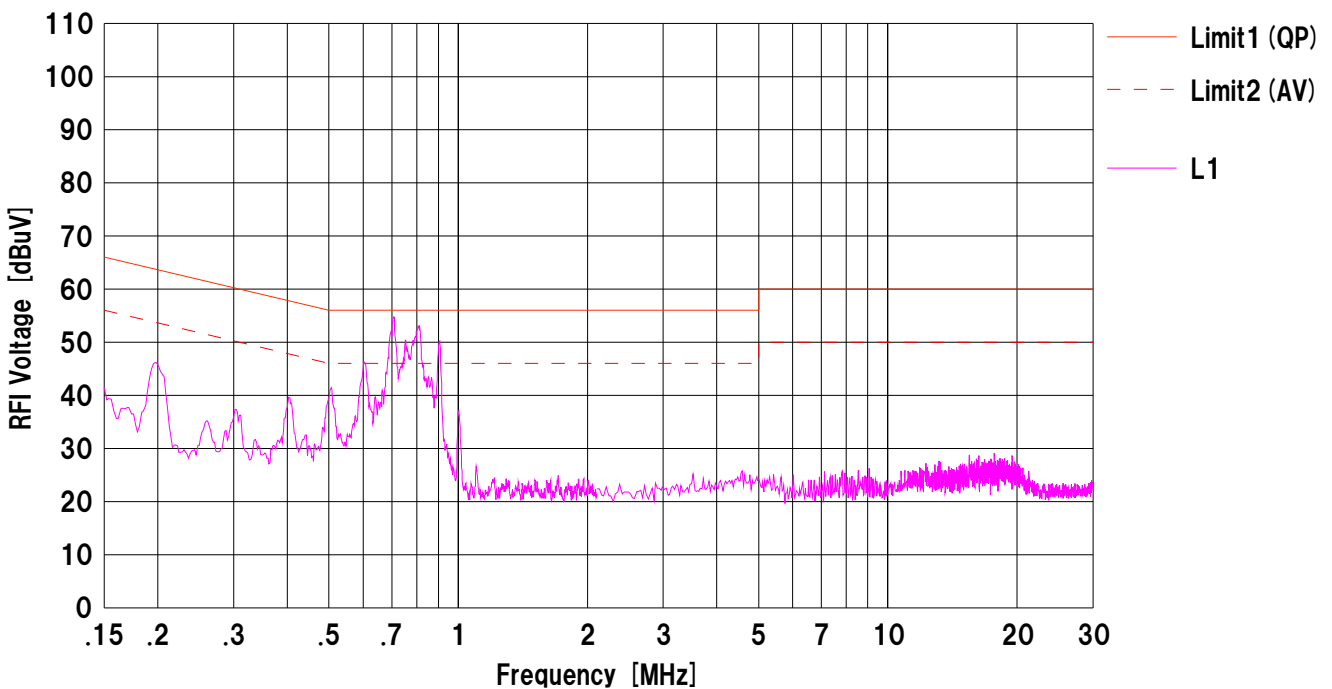
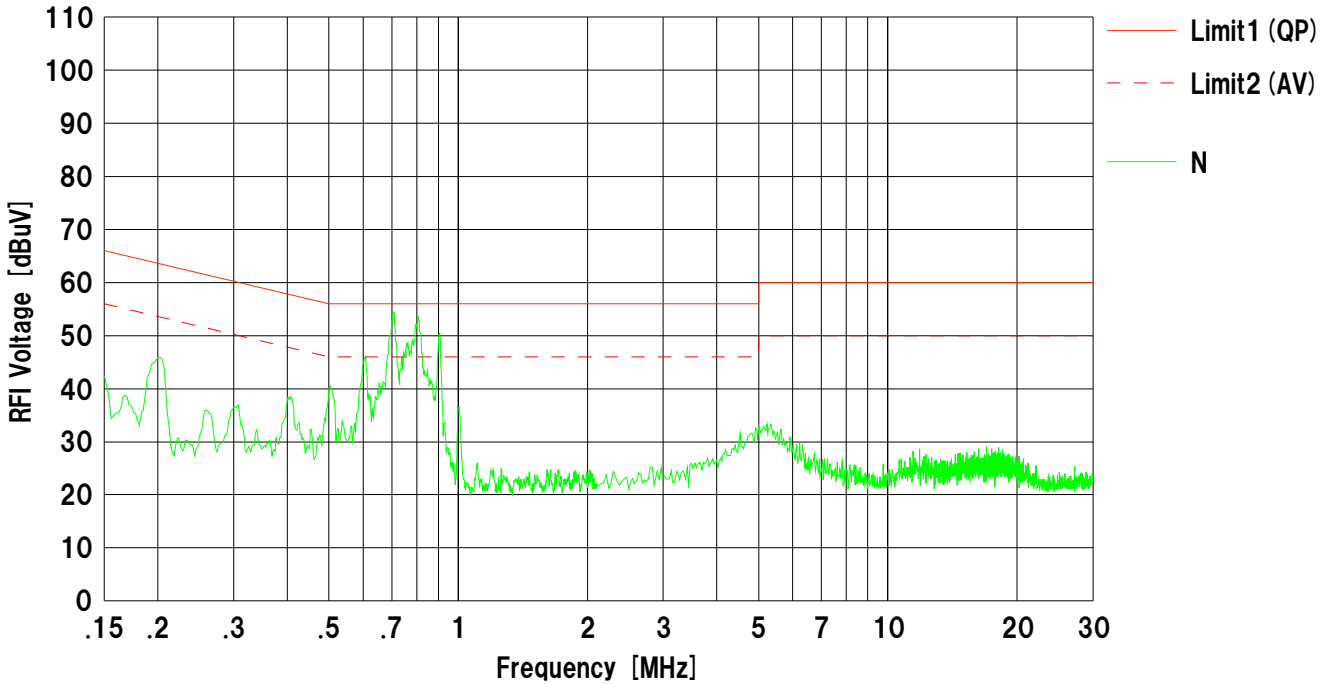
Company : RICOH COMPANY LTD.
Kind of E.U.T. : Color Copier
Model No. : Aficio MP C5501
Serial No. : V9610100004

Mode : Transmitting (DH5_2402MHz)
Report No. : 30IE0112-SH-01-B
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

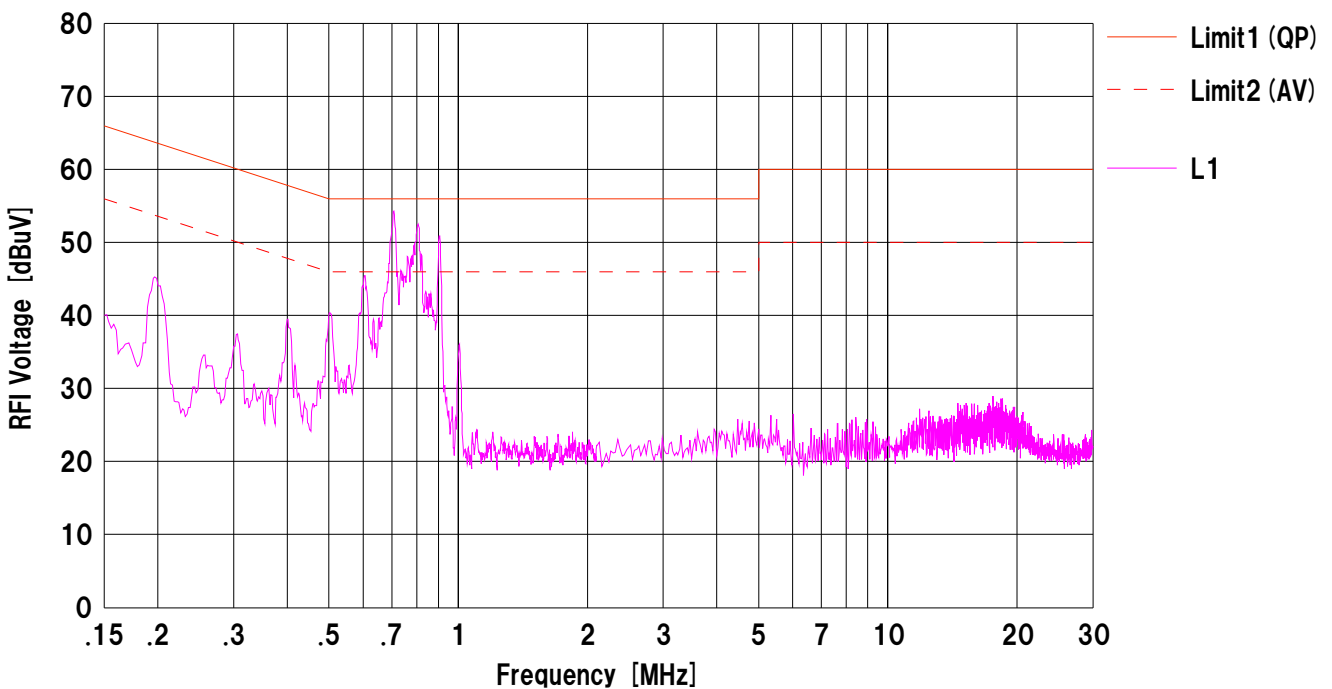
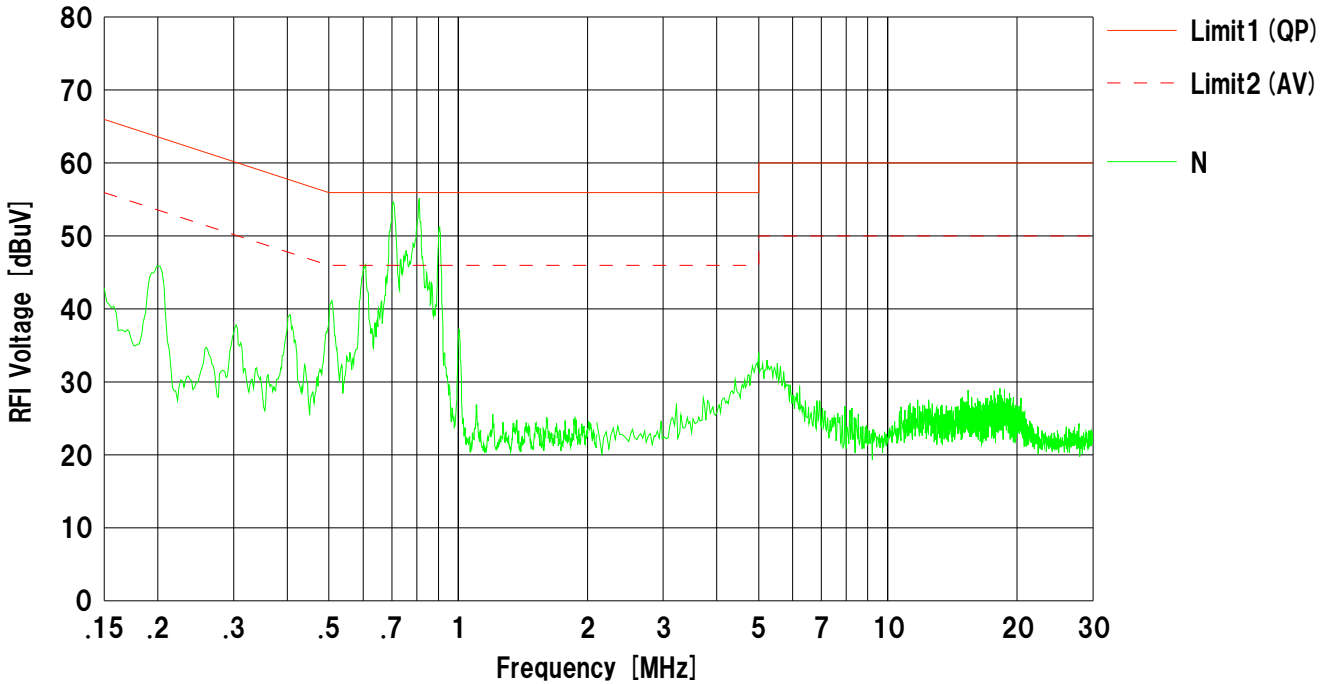
Company : RICOH COMPANY LTD.
Kind of E.U.T. : Color Copier
Model No. : Aficio MP C5501
Serial No. : V9610100004

Mode : Transmitting (DH5_2480MHz)
Report No. : 30IE0112-SH-01-B
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 : 2010/06/25

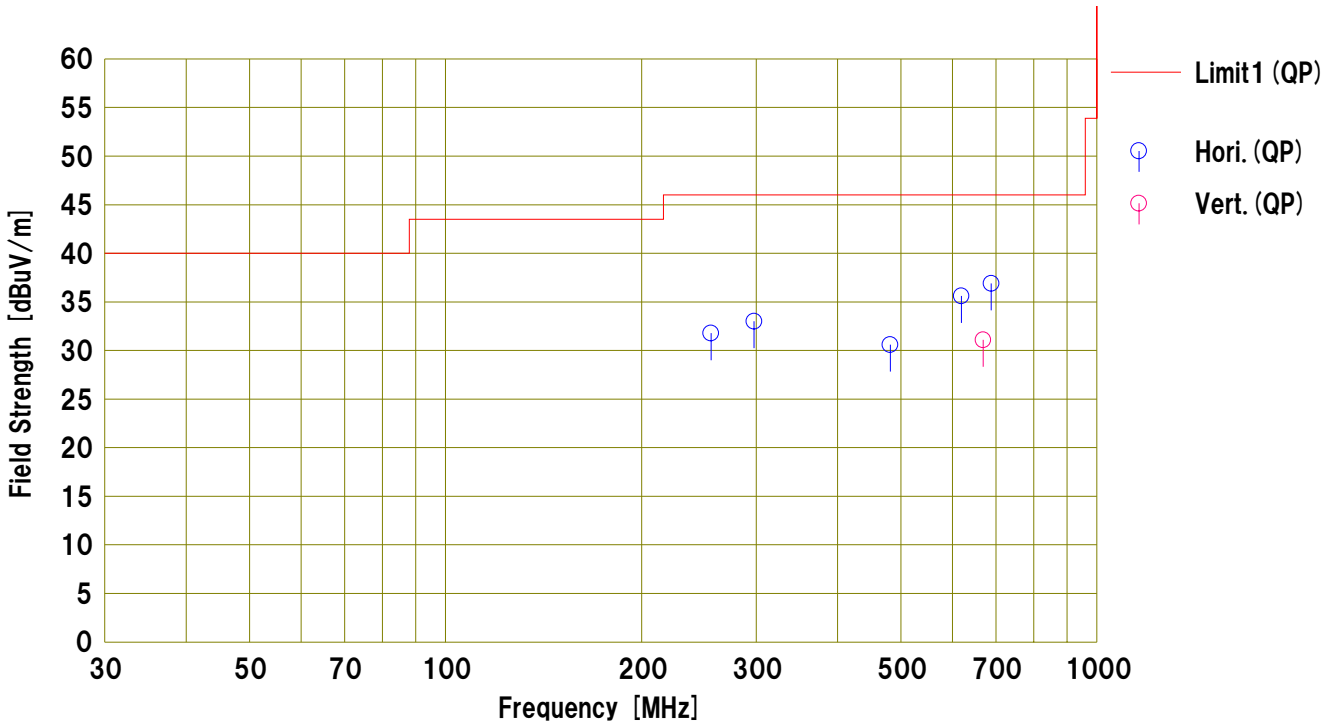
Company : RICOH COMPANY LTD.
Kind of E.U.T. : Color Copier
Model No. : Aficio MP C5501
Serial No. : V9610100004

Mode : Transmitting (Bluetooth 2402MHz)
Report No. : 30IE0112-SH-01-B
Power : AC120V/60Hz
Temp./Humi. : 26deg.C. / 45%

Remarks : -

Limit1 : FCC15.209 3m

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading	Ant.Fac	Loss	Gain	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type	Comment
		<QP>				<QP>	<QP>						
		[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]		
1	255.608	38.0	17.6	8.2	32.0	31.8	46.0	14.2	Hori.	143	67	BC	
2	297.720	37.4	19.2	8.4	32.0	33.0	46.0	13.0	Hori.	116	2	BC	
3	481.681	36.3	17.0	9.2	31.9	30.6	46.0	15.4	Hori.	177	140	LP	
4	619.345	38.6	19.2	9.7	31.9	35.6	46.0	10.4	Hori.	143	136	LP	
5	688.134	38.7	20.1	10.0	31.9	36.9	46.0	9.1	Hori.	180	200	LP	
6	668.719	33.3	19.8	9.9	31.9	31.1	46.0	14.9	Vert.	100	123	LP	

DATA OF RADIATED EMISSION TEST

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

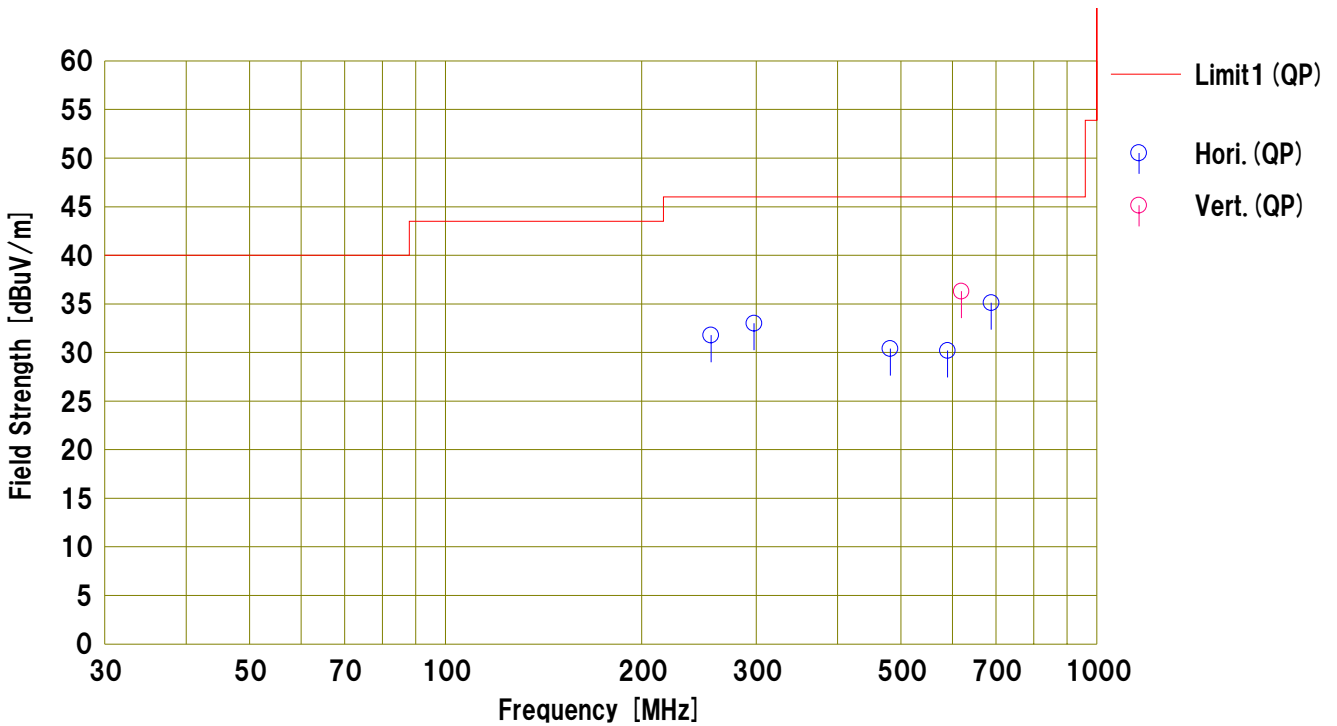
Company : RICOH COMPANY LTD.
Kind of E.U.T. : Color Copier
Model No. : Aficio MP C5501
Serial No. : V9610100004

Mode : Transmitting (Bluetooth 2441MHz)
Report No. : 30IE0112-SH-01-B
Power : AC120V/60Hz
Temp./Humi. : 26deg.C. / 45%

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	255.608	38.0	17.6	8.2	32.0	31.8	46.0	14.2	Hori.	143	67	BC	
2	297.720	37.4	19.2	8.4	32.0	33.0	46.0	13.0	Hori.	116	2	BC	
3	481.681	36.1	17.0	9.2	31.9	30.4	46.0	15.6	Hori.	182	43	LP	
4	589.824	33.7	18.8	9.6	31.9	30.2	46.0	15.8	Hori.	100	143	LP	
5	688.138	36.9	20.1	10.0	31.9	35.1	46.0	10.9	Hori.	100	142	LP	
6	619.336	39.3	19.2	9.7	31.9	36.3	46.0	9.7	Vert.	100	131	LP	

DATA OF RADIATED EMISSION TEST

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

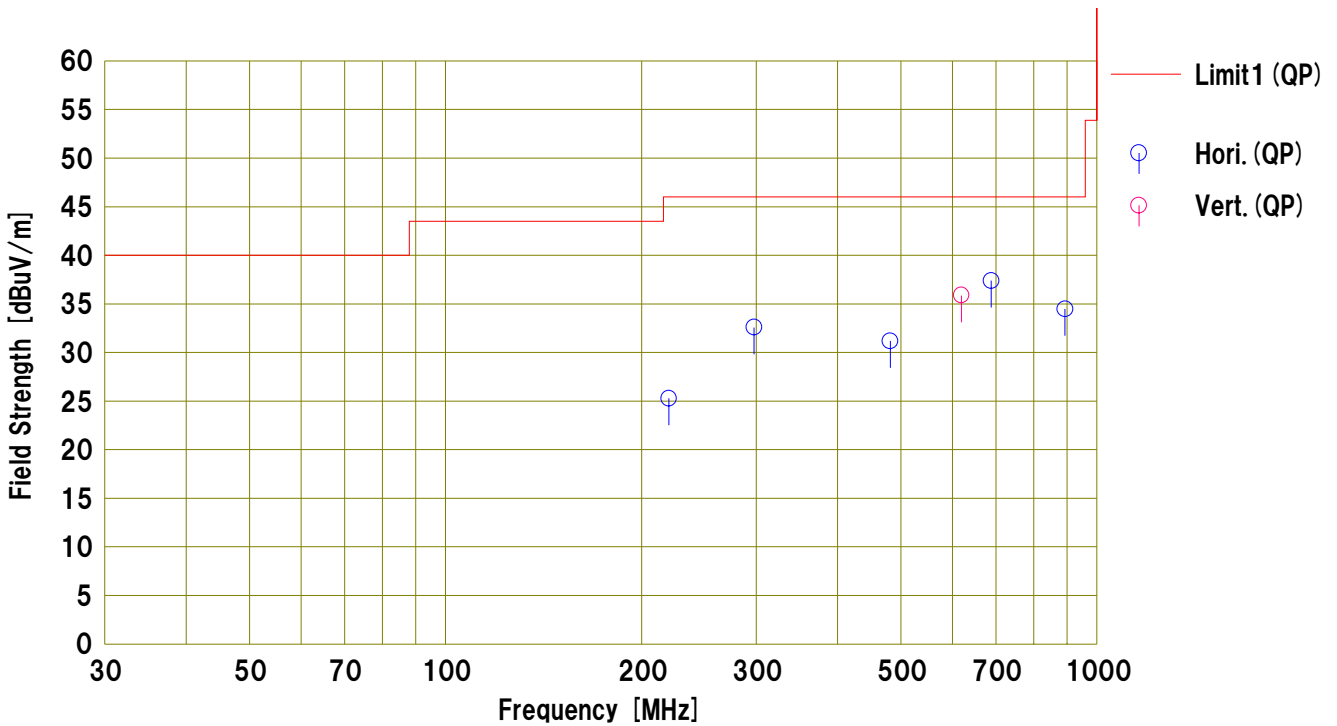
Company : RICOH COMPANY LTD.
Kind of E.U.T. : Color Copier
Model No. : Aficio MP C5501
Serial No. : V9610100004

Mode : Transmitting (Bluetooth 2480MHz)
Report No. : 30IE0112-SH-01-B
Power : AC120V/60Hz
Temp./Humi. : 26deg.C. / 45%

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	220.179	32.3	17.0	8.0	32.0	25.3	46.0	20.7	Hori.	158	207	BC	
2	297.722	37.0	19.2	8.4	32.0	32.6	46.0	13.4	Hori.	118	354	BC	
3	481.713	36.9	17.0	9.2	31.9	31.2	46.0	14.8	Hori.	100	156	LP	
4	688.151	39.2	20.1	10.0	31.9	37.4	46.0	8.6	Hori.	100	231	LP	
5	894.499	33.2	21.8	10.6	31.1	34.5	46.0	11.5	Hori.	153	228	LP	
6	619.334	38.9	19.2	9.7	31.9	35.9	46.0	10.1	Vert.	100	133	LP	

Radiated Emission (Above 1GHz)

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date 2010/6/28
Temperature / Humidity 21deg.C. , 61%
Engineer Makoto Hosaka
Mode Tx, 2402 MHz
 Bluetooth, DH5,

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.	2390.000	PK	54.6	27.6	13.3	40.2	55.3	73.9	18.6	100	116	
Hori.	2658.000	PK	54.0	28.1	13.6	40.4	55.3	73.9	18.6	100	157	
Hori.	4804.000	PK	56.9	30.6	5.5	40.1	52.9	73.9	21.0	100	169	
Hori.	6875.611	PK	50.6	35.6	6.4	38.2	54.4	73.9	19.5	106	229	
Hori.	7206.000	PK	58.3	36.0	6.7	38.3	62.7	73.9	11.2	100	161	
Hori.	9608.000	PK	46.5	38.4	7.8	37.3	55.4	73.9	18.5	100	0	
Hori.	12010.000	PK	47.6	39.7	9.0	38.4	57.9	73.9	16.0	100	0	
Vert.	2390.000	PK	55.3	27.6	13.3	40.2	56.0	73.9	17.9	107	125	
Vert.	2658.000	PK	55.0	28.1	13.6	40.4	56.3	73.9	17.6	100	120	
Vert.	4804.000	PK	55.5	30.6	5.5	40.1	51.5	73.9	22.4	100	148	
Vert.	6875.611	PK	52.1	35.6	6.4	38.2	55.9	73.9	18.0	113	220	
Vert.	7206.000	PK	59.2	36.0	6.7	38.3	63.6	73.9	10.3	100	216	
Vert.	9608.000	PK	46.3	38.4	7.8	37.3	55.2	73.9	18.7	100	0	
Vert.	12010.000	PK	47.0	39.7	9.0	38.4	57.3	73.9	16.6	100	0	
Hori.	2658.000	AV	47.6	28.1	13.6	40.4	48.9	53.9	5.0	100	157	VBW: 270Hz
Hori.	6875.611	AV	41.8	35.6	6.4	38.2	45.6	53.9	8.3	106	229	VBW: 10Hz
Vert.	2658.000	AV	48.5	28.1	13.6	40.4	49.8	53.9	4.1	100	120	VBW: 270Hz
Vert.	6875.611	AV	45.7	35.6	6.4	38.2	49.5	53.9	4.4	113	220	VBW: 10Hz

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).

*No noise was detected above the 5th order harmonics.

Distance factor: 13GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	37.5	27.6	13.3	40.2	-30.6	7.6	53.9	46.3	
Hori.	4804.000	AV	52.7	30.6	5.5	40.1	-30.6	18.1	53.9	35.8	
Hori.	7206.000	AV	52.9	36.0	6.7	38.3	-30.6	26.7	53.9	27.2	
Hori.	9608.000	AV	34.1	38.4	7.8	37.3	-30.6	12.4	53.9	41.5	
Hori.	12010.000	AV	34.6	39.7	9.0	38.4	-30.6	14.3	53.9	39.6	
Vert.	2390.000	AV	37.6	27.6	13.3	40.2	-30.6	7.7	53.9	46.2	
Vert.	4804.000	AV	50.7	30.6	5.5	40.1	-30.6	16.1	53.9	37.8	
Vert.	7206.000	AV	53.7	36.0	6.7	38.3	-30.6	27.5	53.9	26.4	
Vert.	9608.000	AV	33.9	38.4	7.8	37.3	-30.6	12.2	53.9	41.7	
Vert.	12010.000	AV	34.7	39.7	9.0	38.4	-30.6	14.4	53.9	39.5	

Result = Reading (VBW: 270Hz) + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz))

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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.	2402.000	PK	102.9	27.6	13.3	40.2	103.6	-	-	Carrier
Hori.	2400.000	PK	62.2	27.6	13.3	40.2	62.9	83.6	20.7	
Vert.	2402.000	PK	103.6	27.6	13.3	40.2	104.3	-	-	Carrier
Vert.	2400.000	PK	62.9	27.6	13.3	40.2	63.6	84.3	20.7	

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

Radiated Emission (Above 1GHz)

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date 2010/6/28
Temperature / Humidity 21deg.C. , 61%
Engineer Makoto Hosaka
Mode Tx, 2441 MHz
 Bluetooth, DH5,

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.	2697.000	PK	52.7	28.2	13.6	40.4	54.1	73.9	19.8	100	166	
Hori.	4882.000	PK	58.1	30.9	5.6	40	54.6	73.9	19.3	100	178	
Hori.	6875.600	PK	51	35.6	6.4	38.2	54.8	73.9	19.1	109	214	
Hori.	7323.000	PK	61.1	36	6.9	38.5	65.5	73.9	8.4	100	218	
Hori.	9764.000	PK	47.8	38.4	7.8	37.4	56.6	73.9	17.3	181	213	
Hori.	12205.000	PK	47.6	39.7	9.1	38.1	58.3	73.9	15.6	100	0	
Vert.	2697.000	PK	52.8	28.2	13.6	40.4	54.2	73.9	19.7	100	209	
Vert.	4882.000	PK	55.5	30.9	5.6	40	52	73.9	21.9	100	190	
Vert.	6875.600	PK	52.7	35.6	6.4	38.2	56.5	73.9	17.4	100	217	
Vert.	7323.000	PK	62.7	36	6.9	38.5	67.1	73.9	6.8	149	217	
Vert.	9764.000	PK	47.9	38.4	7.8	37.4	56.7	73.9	17.2	100	0	
Vert.	12205.000	PK	48.7	39.7	9.1	38.1	59.4	73.9	14.6	100	0	
Hori.	2697.000	AV	44.2	28.2	13.6	40.4	45.6	53.9	8.3	100	166	VBW: 270Hz
Hori.	6875.600	AV	40.3	35.6	6.4	38.2	44.1	53.9	9.8	109	214	VBW: 10Hz
Vert.	2697.000	AV	45.6	28.2	13.6	40.4	47	53.9	6.9	100	209	VBW: 270Hz
Vert.	6875.600	AV	45.6	35.6	6.4	38.2	49.4	53.9	4.6	100	217	VBW: 10Hz

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).

*No noise was detected above the 5th order harmonics.

Distance factor: 13GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	4882.000	AV	54.5	30.9	5.6	40.0	-30.6	20.4	53.9	33.5	
Hori.	7323.000	AV	57.8	36.0	6.9	38.5	-30.6	31.6	53.9	22.3	
Hori.	9764.000	AV	35.9	38.4	7.8	37.4	-30.6	14.1	53.9	39.8	
Hori.	12205.000	AV	34.2	39.7	9.1	38.1	-30.6	14.3	53.9	39.6	
Vert.	4882.000	AV	50.8	30.9	5.6	40.0	-30.6	16.7	53.9	37.2	
Vert.	7323.000	AV	59.1	36.0	6.9	38.5	-30.6	32.9	53.9	21.0	
Vert.	9764.000	AV	35.7	38.4	7.8	37.4	-30.6	13.9	53.9	40.0	
Vert.	12205.000	AV	35.4	39.7	9.1	38.1	-30.6	15.5	53.9	38.4	

Result = Reading (VBW: 270Hz) + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz))

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

Radiated Emission (Above 1GHz)

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date 2010/6/28
Temperature / Humidity 21deg.C. , 61%
Engineer Makoto Hosaka
Mode Tx, 2480 MHz
 Bluetooth, DH5,

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.	2483.500	PK	63.2	27.9	13.4	40.1	64.4	73.9	9.5	127	212	
Hori.	2712.526	PK	51.0	28.2	13.6	40.5	52.3	73.9	21.6	100	167	
Hori.	4960.000	PK	56.0	31.1	5.6	40.0	52.7	73.9	21.2	100	178	
Hori.	6875.600	PK	49.8	35.6	6.4	38.2	53.6	73.9	20.3	110	212	
Hori.	7440.000	PK	62.0	35.9	7.1	38.7	66.3	73.9	7.6	102	228	
Hori.	9920.000	PK	47.5	38.3	8.0	37.5	56.3	73.9	17.6	100	215	
Hori.	12400.000	PK	46.2	39.7	9.4	37.9	57.4	73.9	16.5	100	0	
Vert.	2483.500	PK	62.9	27.9	13.4	40.1	64.1	73.9	9.8	100	0	
Vert.	2712.526	PK	51.4	28.2	13.6	40.5	52.7	73.9	21.2	100	124	
Vert.	4960.000	PK	56.6	31.1	5.6	40.0	53.3	73.9	20.6	102	203	
Vert.	6875.600	PK	52.5	35.6	6.4	38.2	56.3	73.9	17.6	115	216	
Vert.	7440.000	PK	64.4	35.9	7.1	38.7	68.7	73.9	5.2	103	202	
Vert.	9920.000	PK	46.4	38.3	8.0	37.5	55.2	73.9	18.8	100	0	
Vert.	12400.000	PK	46.1	39.7	9.4	37.9	57.3	73.9	16.6	100	0	
Hori.	2712.526	AV	41.7	28.2	13.6	40.5	43.0	53.9	10.9	100	167	VBW: 270Hz
Hori.	6875.600	AV	40.6	35.6	6.4	38.2	44.4	53.9	9.5	110	212	VBW: 10Hz
Vert.	2712.526	AV	43.2	28.2	13.6	40.5	44.5	53.9	9.4	100	124	VBW: 270Hz
Vert.	6875.600	AV	45.7	35.6	6.4	38.2	49.5	53.9	4.4	115	216	VBW: 10Hz

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).

*No noise was detected above the 5th order harmonics.

Distance factor: 13GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	55.2	27.9	13.4	40.1	-30.6	25.8	53.9	28.1	
Hori.	4960.000	AV	51.8	31.1	5.6	40.0	-30.6	17.9	53.9	36.0	
Hori.	7440.000	AV	57.5	35.9	7.1	38.7	-30.6	31.2	53.9	22.7	
Hori.	9920.000	AV	36.2	38.3	8.0	37.5	-30.6	14.4	53.9	39.5	
Hori.	12400.000	AV	34.0	39.7	9.4	37.9	-30.6	14.6	53.9	39.3	
Vert.	2483.500	AV	54.7	27.9	13.4	40.1	-30.6	25.3	53.9	28.6	
Vert.	4960.000	AV	52.2	31.1	5.6	40.0	-30.6	18.3	53.9	35.6	
Vert.	7440.000	AV	60.1	35.9	7.1	38.7	-30.6	33.8	53.9	20.1	
Vert.	9920.000	AV	34.4	38.3	8.0	37.5	-30.6	12.6	53.9	41.3	
Vert.	12400.000	AV	34.0	39.7	9.4	37.9	-30.6	14.6	53.9	39.3	

Result = Reading (VBW: 270Hz) + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz))

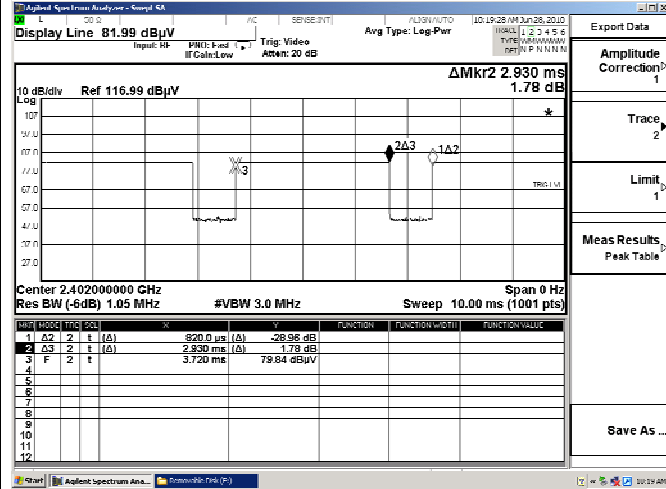
- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

Radiated Emission (Above 1GHz)

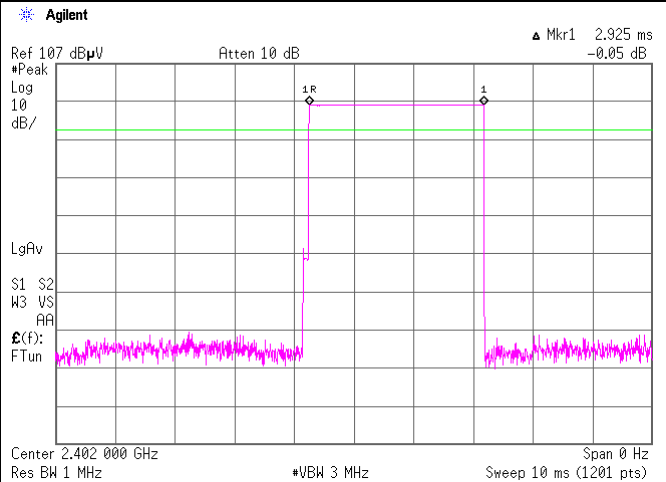
DH5

VBW (AV) Calculation

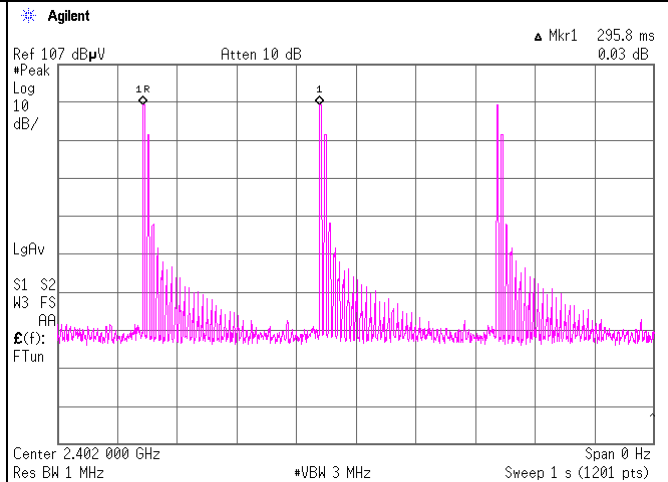
VBW: $1/x = 268.8\text{Hz} < 270\text{Hz}$
x: (Tx on+Tx off) = 3.72ms



Worst 100ms,
Dwell time factor = $20\log(2.953/100) = -30.59\text{dB}$



1cycle time:
295.8ms



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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,

APPENDIX 4: Similar model description

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