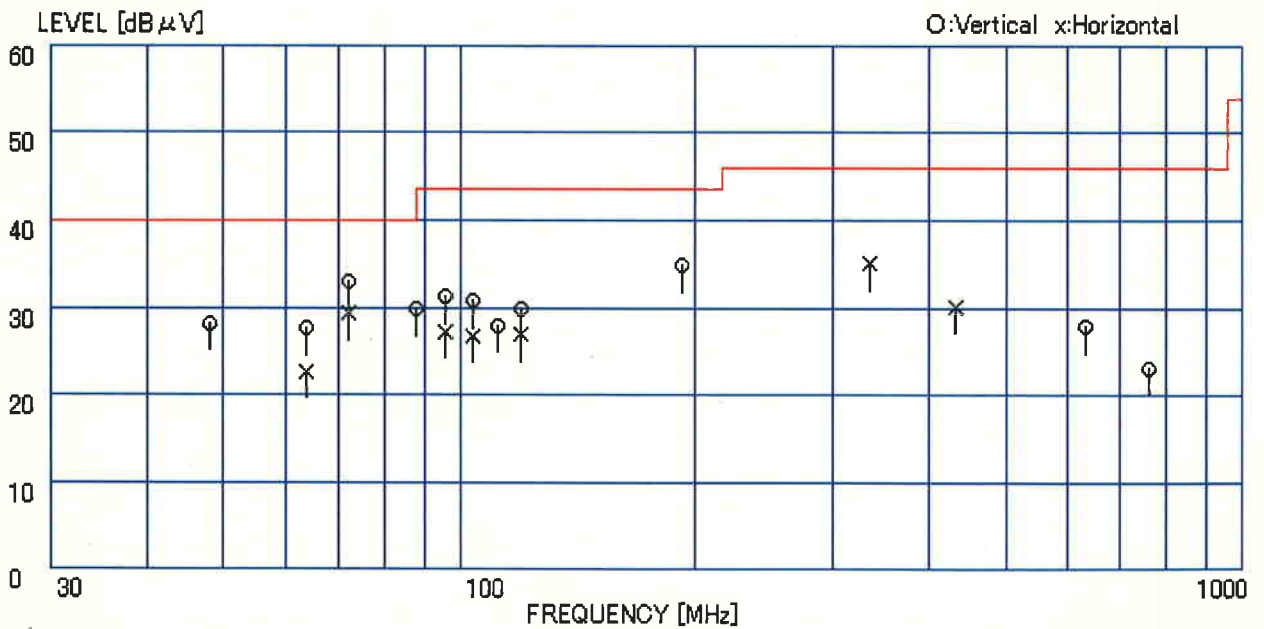


<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-3 RFI Field Strength Measurement Results

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Table 6.2-4a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZP-501E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		30 Meter Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver.	Hor.		Ver.	Hor.
0.67	4.0		0.3	0.0	19.2	23.5	14.96	31.1	7.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-4b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZP-501E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		Result Ver. (μV/m)	3 Meter Limit (μV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver.	Hor.			Ver.	Hor.
48.00	43.0		1.6	-27.0	10.7	28.3		26.00	100	11.7	
64.00	49.5	42.0	1.8	-27.0	6.9	31.2	23.7	36.31	15.31	100	8.8 16.3
72.00	46.0	43.0	2.0	-27.0	6.9	27.9	24.9	24.83	17.58	100	12.1 15.1
88.00	43.0		2.1	-26.8	8.5	26.8		21.88		100	13.2
96.00	46.0	43.0	2.4	-27.0	9.9	31.2	28.2	36.31	25.70	150	12.3 15.3
104.00	44.0	41.0	2.4	-26.8	11.3	30.8	27.8	34.67	24.55	150	12.7 15.7
112.00	41.5		2.5	-26.8	12.3	29.5		29.85		150	14.0
120.00	41.0	39.0	2.6	-26.8	13.1	29.9	27.9	31.26	24.83	150	13.6 15.6
192.00	41.0		3.4	-26.2	16.6	34.8		54.95		150	8.7
336.00		42.0	4.5	-26.8	16.4		36.1		63.83	200	9.9
432.00		34.0	5.3	-27.6	18.5		30.1		31.99	200	15.9
631.97	30.0		6.6	-28.2	19.5	27.9		24.83		200	18.1
760.00	23.0		7.1	-28.0	21.1	23.2		14.45		200	22.8

Class B limit

Radiated Emission – 3 meter distance

Frequency (MHz)	dBμV/m	μV/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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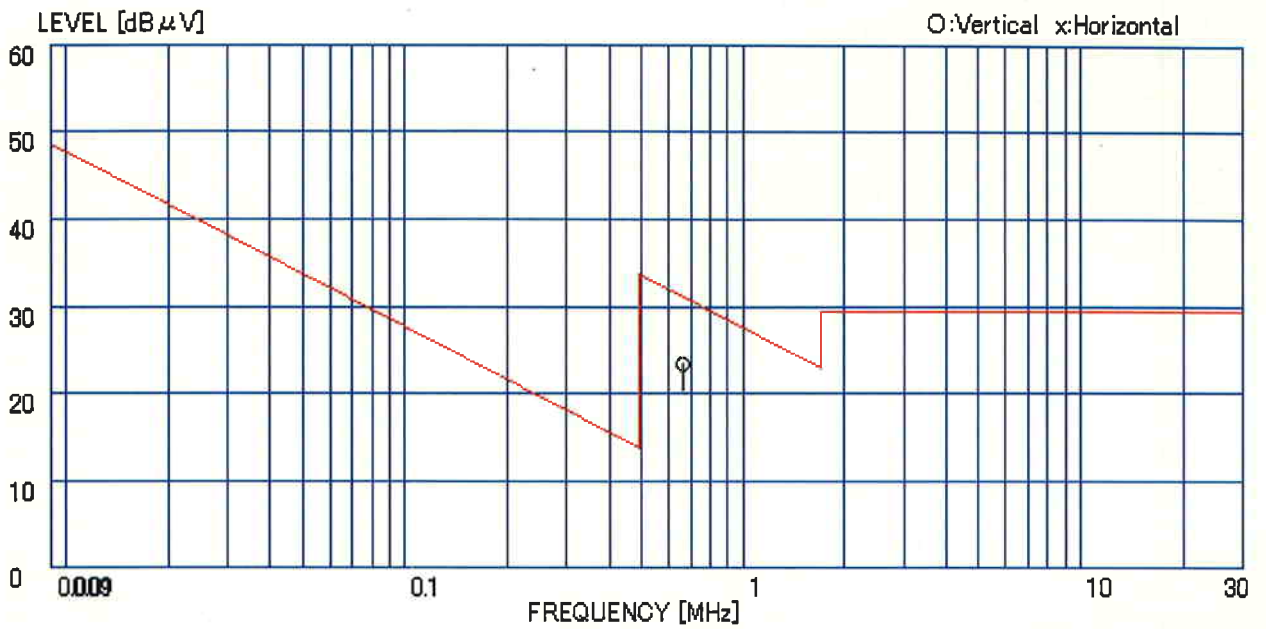


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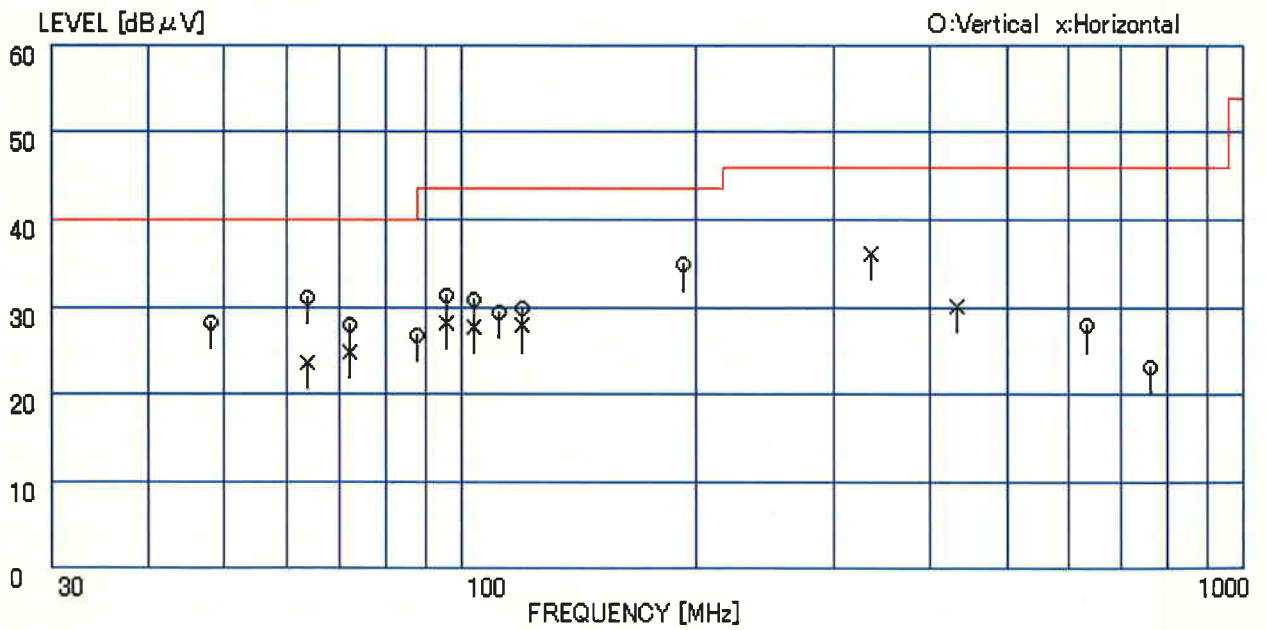
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<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-4 RFI Field Strength Measurement Results

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Table 6.2-5a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZP-600
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		30 Meter Limit (dBμV/m)	Margin	
	Ver.	Hor.				Ver.	Hor.		Ver.	Hor.
0.67	3.0		0.3	0.0	19.2	22.5	13.34	31.1	8.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-5b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZP-600
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level (dBμV)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dBμV/m)		Result (μV/m)		3 Meter Limit (μV/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	43.0		1.6	-27.0	10.7	28.3		26.00		100	11.7	
64.00	47.0	42.0	1.8	-27.0	6.9	28.7	23.7	27.23	15.31	100	11.3	16.3
72.00	52.0	48.5	2.0	-27.0	6.9	33.9	30.4	49.55	33.11	100	6.1	9.6
88.00	48.0		2.1	-26.8	8.5	31.8		38.90		100	8.2	
96.00	46.0	42.0	2.4	-27.0	9.9	31.2	27.2	36.31	22.91	150	12.3	16.3
104.00	44.0	40.5	2.4	-26.8	11.3	30.8	27.3	34.67	23.17	150	12.7	16.2
112.00	40.0		2.5	-26.8	12.3	28.0		25.12		150	15.5	
120.00	41.0	38.0	2.6	-26.8	13.1	29.9	26.9	31.26	22.13	150	13.6	16.6
192.00	41.0		3.4	-26.2	16.6	34.8		54.95		150	8.7	
336.00		42.0	4.5	-26.8	16.4		36.1		63.83	200		9.9
432.00		34.0	5.3	-27.6	18.5		30.1		31.99	200		15.9
631.97	30.0		6.6	-28.2	19.5	27.9		24.83		200	18.1	
760.00	23.0		7.1	-28.0	21.1	23.2		14.45		200	22.8	

Class B limit

Radiated Emission – 3 meter distance

Frequency (MHz)	dBμV/m	μV/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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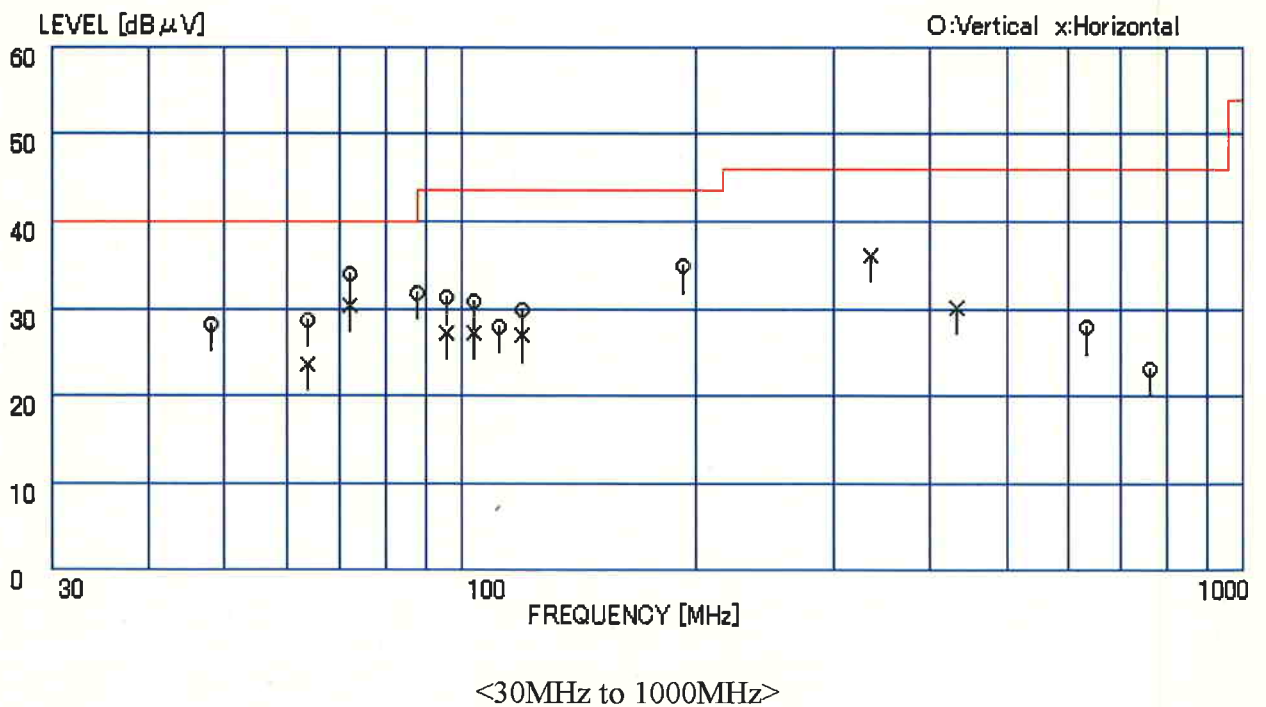
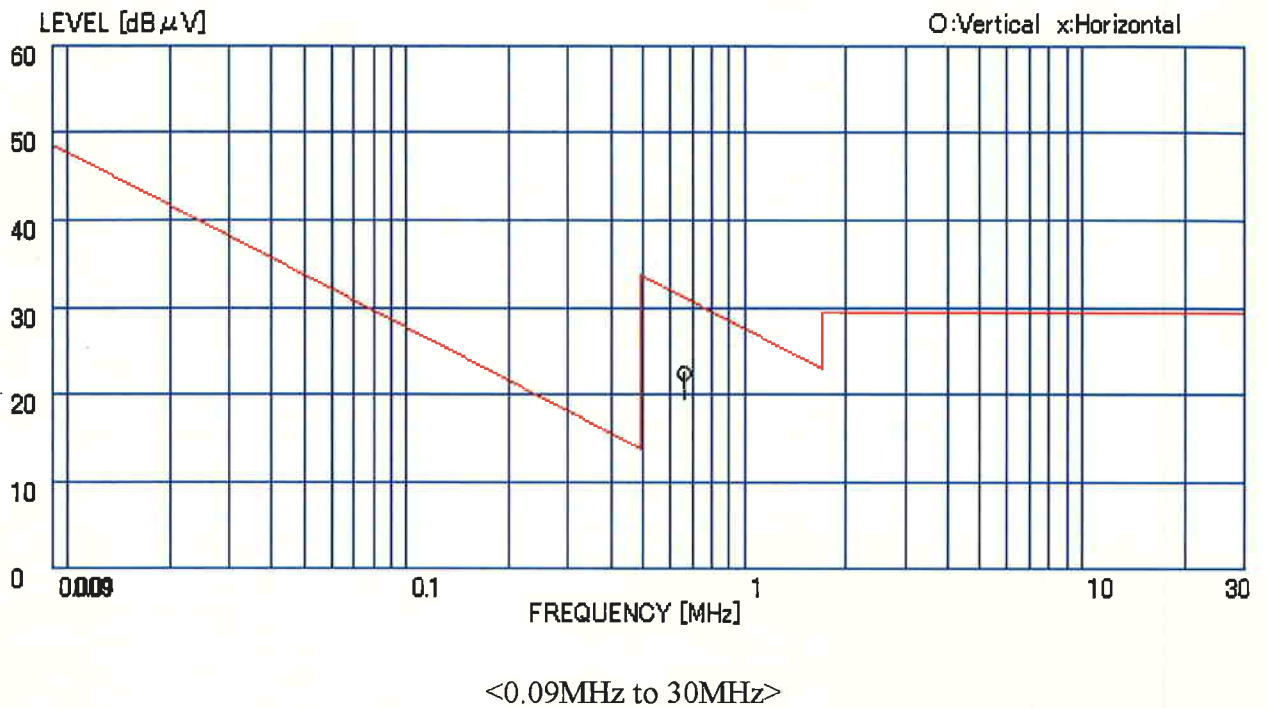


Figure 6.2-5 RFI Field Strength Measurement Results

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Kazunori Maeshima, Engineer

Table 6.2-6a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZC-100
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*
 Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level (dB μ V)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dB μ V/m)		Result (μ V/m)	30 Meter Limit (dB μ V/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.			Ver.	Hor.
0.67	2.0		0.3	0.0	19.2	21.5		11.89	31.1	9.7	

Limit

Frequency (MHz)	dB μ V/m	μ V/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement. Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-6b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZC-100
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V

Date of measurement: October 25, 2005
 Temperature: 22 degree C
 Humidity: 43 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		Result		3 Meter Limit (μ V/m)	Margin	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	43.0		1.6	-27.0	10.7	28.3		26.00		100	11.7	
64.00	46.0	41.0	1.8	-27.0	6.9	27.7	22.7	24.27	13.65	100	12.3	17.3
72.00	52.0	48.0	2.0	-27.0	6.9	33.9	29.9	49.55	31.26	100	6.1	10.1
88.00	46.0		2.1	-26.8	8.5	29.8		30.90		100	10.2	
96.00	46.0	42.0	2.4	-27.0	9.9	31.2	27.2	36.31	22.91	150	12.3	16.3
104.00	42.5	39.0	2.4	-26.8	11.3	29.3	25.8	29.17	19.50	150	14.2	17.7
112.00	40.0		2.5	-26.8	12.3	28.0		25.12		150	15.5	
120.00	41.0	38.0	2.6	-26.8	13.1	29.9	26.9	31.26	22.13	150	13.6	16.6
192.00	41.0		3.4	-26.2	16.6	34.8		54.95		150	8.7	
336.00		42.0	4.5	-26.8	16.4		36.1		63.83	200		9.9
432.00		34.0	5.3	-27.6	18.5		30.1		31.99	200		15.9
631.97	30.0		6.6	-28.2	19.5	27.9		24.83		200	18.1	
760.00	23.0		7.1	-28.0	21.1	23.2		14.45		200	22.8	

Class B limit

Radiated Emission – 3 meter distance

Frequency (MHz)	$\text{dB}\mu\text{V/m}$	$\mu\text{V/m}$
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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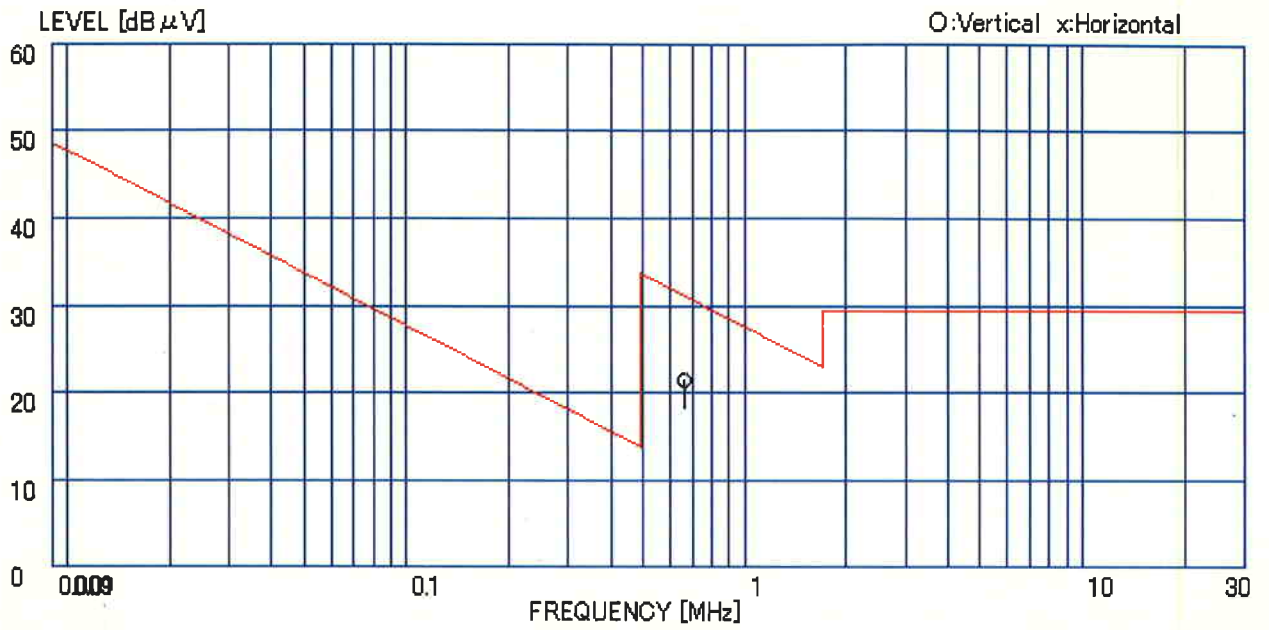


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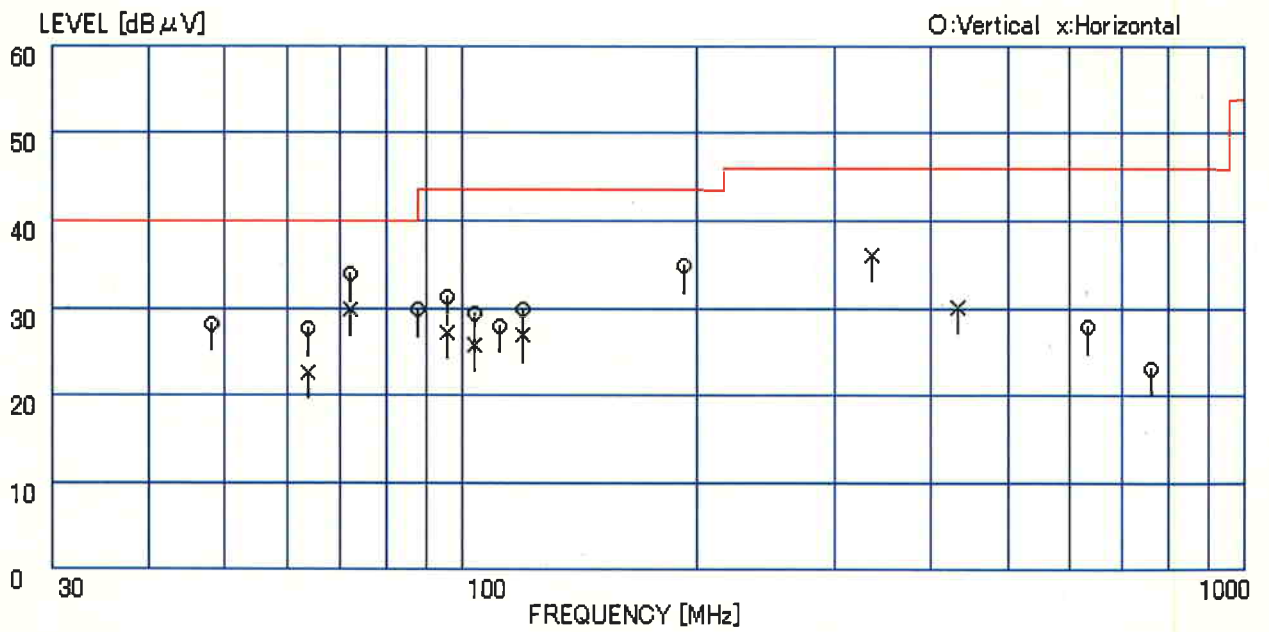
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<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-6 RFI Field Strength Measurement Results

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Table 6.2-7a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZC-210
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*
 Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		30 Meter Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver. (μV/m)	Hor.		Ver. (dB)	Hor.
0.67	3.0		0.3	0.0	19.2	22.5	13.34	31.1	8.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-7b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZC-210
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %


Frequency (MHz)	Level (dB μ V)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dB μ V/m)		Result (μ V/m)		3 Meter Limit (μ V/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	42.0		1.6	-27.0	10.7	27.3		23.17		100	12.7	
64.00	45.5	41.0	1.8	-27.0	6.9	27.2	22.7	22.91	13.65	100	12.8	17.3
72.00	51.0	47.0	2.0	-27.0	6.9	32.9	28.9	44.16	27.86	100	7.1	11.1
88.00	45.5		2.1	-26.8	8.5	29.3		29.17		100	10.7	
96.00	47.0	43.0	2.4	-27.0	9.9	32.2	28.2	40.74	25.70	150	11.3	15.3
104.00	44.0	41.0	2.4	-26.8	11.3	30.8	27.8	34.67	24.55	150	12.7	15.7
112.00	40.0		2.5	-26.8	12.3	28.0		25.12		150	15.5	
120.00	41.0	38.0	2.6	-26.8	13.1	29.9	26.9	31.26	22.13	150	13.6	16.6
192.00	40.0		3.4	-26.2	16.6	33.8		48.98		150	9.7	
336.00		42.0	4.5	-26.8	16.4		36.1		63.83	200		9.9
432.00		34.0	5.3	-27.6	18.5		30.1		31.99	200		15.9
631.97	30.0		6.6	-28.2	19.5	27.9		24.83		200	18.1	
760.00	23.0		7.1	-28.0	21.1	23.2		14.45		200	22.8	

Class B limit

Radiated Emission - 3 meter distance

Frequency (MHz)	dB μ V/m	μ V/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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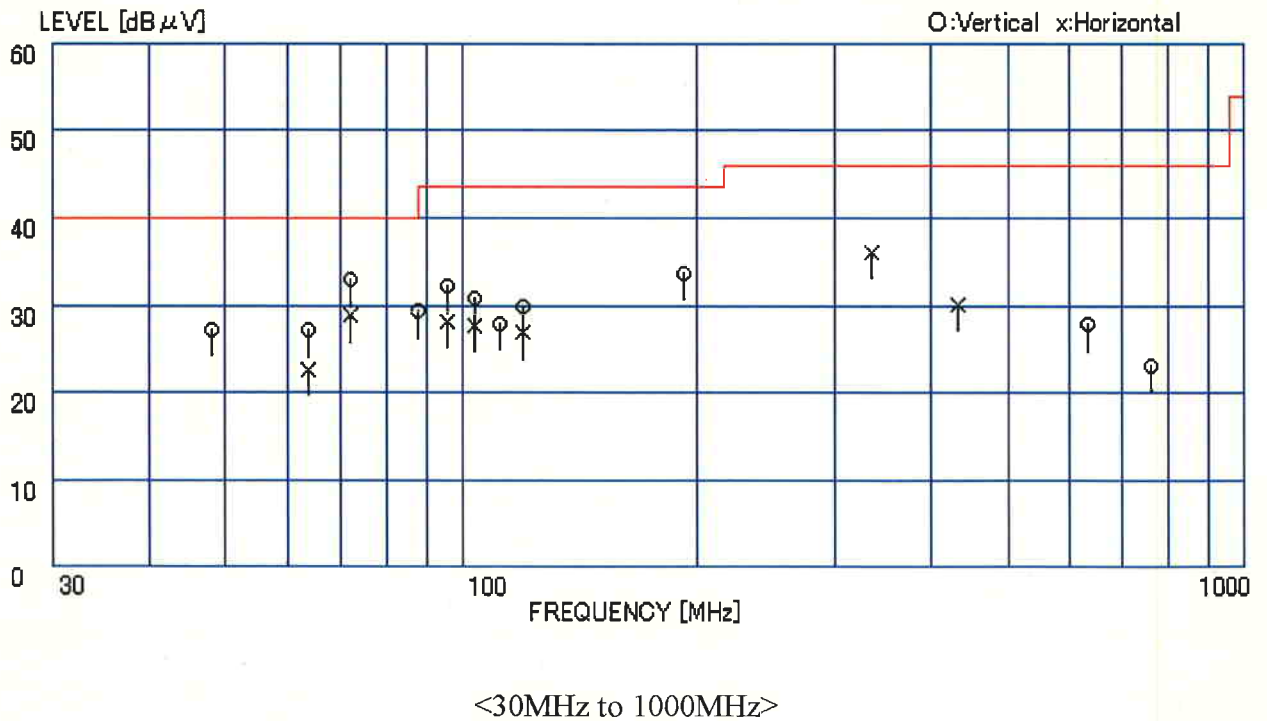
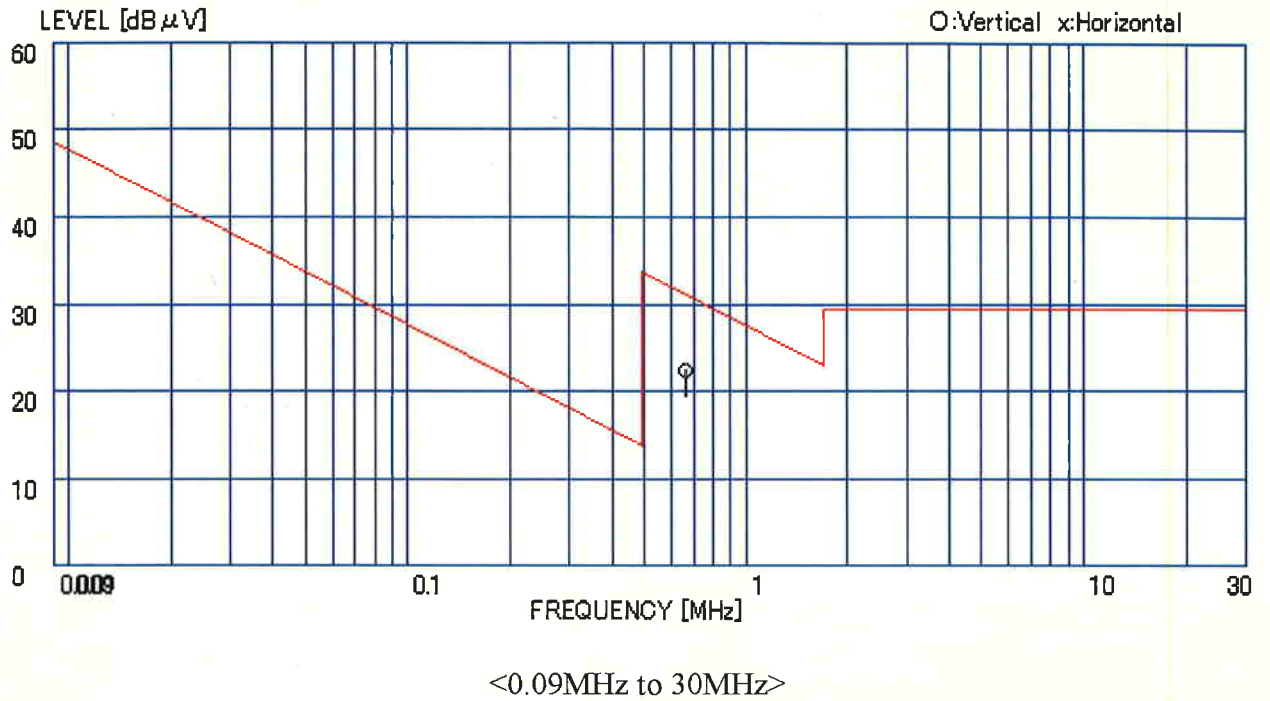


Figure 6.2-7 RFI Field Strength Measurement Results

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Table 6.2-8a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-130
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		30 Meter Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver. (μV/m)	Hor.		Ver. (dB)	Hor.
0.67	2.0		0.3	0.0	19.2	21.5	11.89	31.1	9.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-8b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-130

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V
DC5V

Humidity: 52 %

Frequency (MHz)	Level (dB μ V)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dB μ V/m)		Result (μ V/m)		3 Meter Limit (μ V/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	42.0		1.6	-27.0	10.7	27.3		23.17		100	12.7	
64.00	50.0	46.0	1.8	-27.0	6.9	31.7	27.7	38.46	24.27	100	8.3	12.3
72.00	46.0	46.0	2.0	-27.0	6.9	27.9	27.9	24.83	24.83	100	12.1	12.1
88.00	48.5	48.5	2.1	-26.8	8.5	32.3	32.3	41.21	41.21	100	7.7	7.7
96.00	45.0	46.0	2.4	-27.0	9.9	30.2	31.2	32.36	36.31	150	13.3	12.3
120.00	34.0	36.0	2.6	-26.8	13.1	22.9	24.9	13.96	17.58	150	20.6	18.6
192.00	38.0		3.4	-26.2	16.6	31.8		38.90		150	11.7	
336.00	35.0	42.0	4.5	-26.8	16.4	29.1	36.1	28.51	63.83	200	16.9	9.9
432.00		32.0	5.3	-27.6	18.5		28.1		25.41	200		17.9
631.97	32.5		6.6	-28.2	19.5	30.4		33.11		200	15.6	
800.00	23.5		7.4	-27.8	21.9	25.0		17.78		200	21.0	

Class B limit

Radiated Emission – 3 meter distance

Frequency (MHz)	dB μ V/m	μ V/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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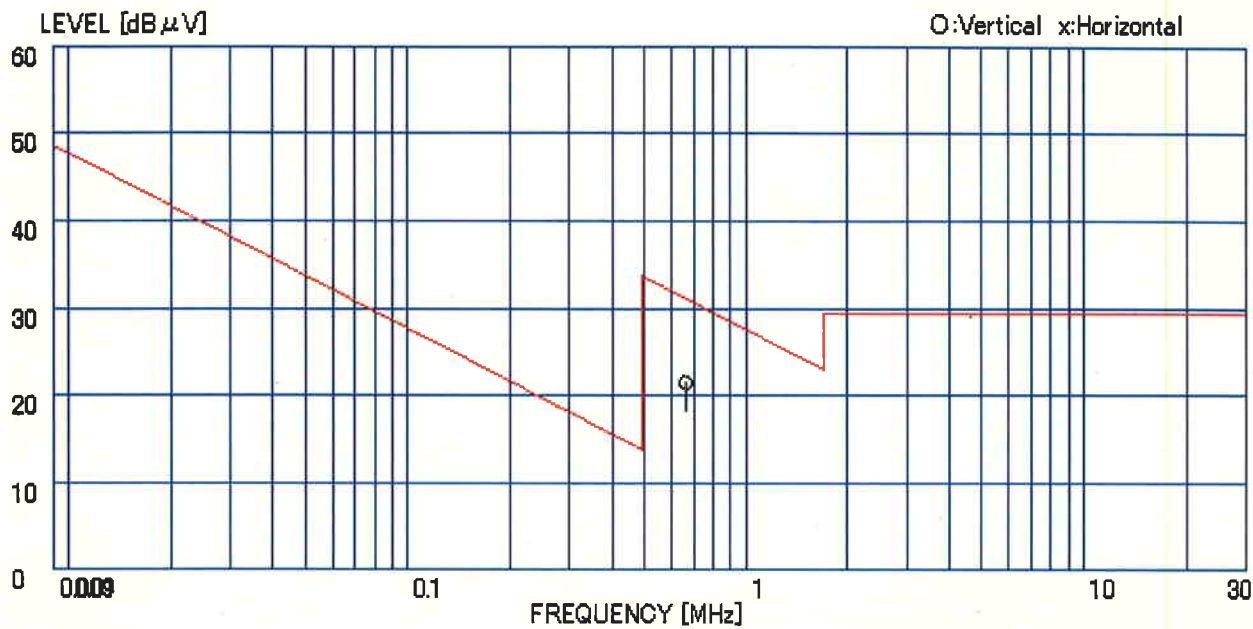
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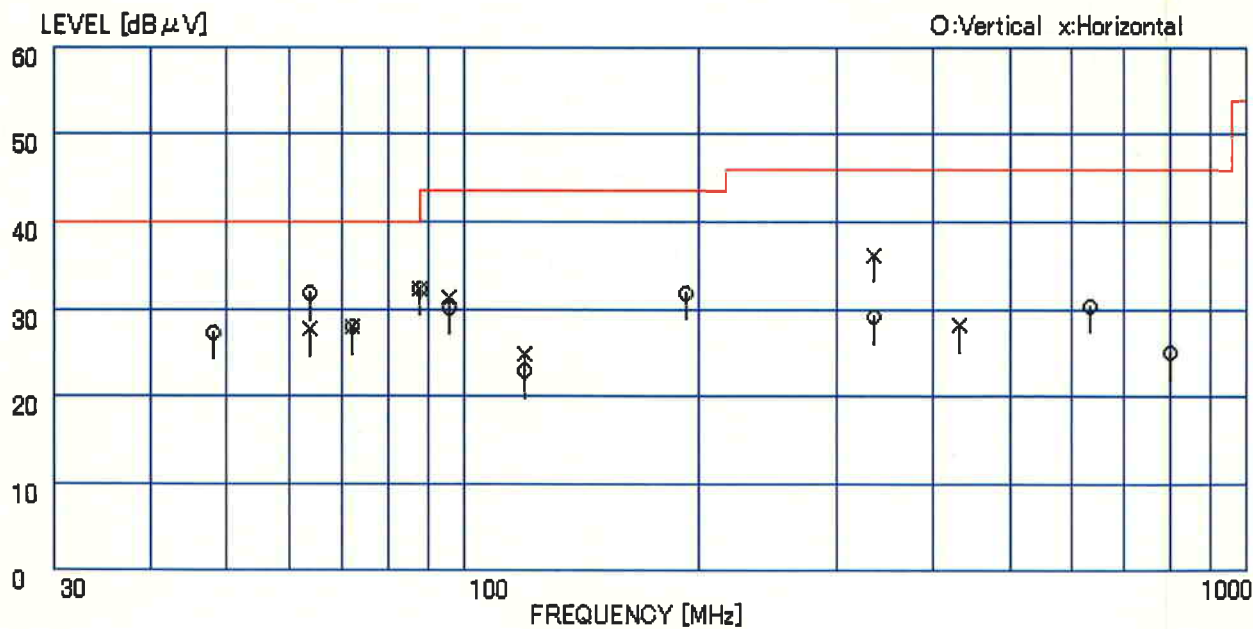
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<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-8 RFI Field Strength Measurement Results

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Table 6.2-9a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-300E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		30 Meter Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver.	Hor.		Ver.	Hor.
0.67	2.0		0.3	0.0	19.2	21.5	11.89	31.1	9.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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 Kazunori Maeshima, Engineer

Table 6.2-9b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-300E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level (dBμV)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dBμV/m)		Result (μV/m)		3 Meter Limit (μV/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	42.0		1.6	-27.0	10.7	27.3		23.17		100	12.7	
64.00	50.0	46.0	1.8	-27.0	6.9	31.7	27.7	38.46	24.27	100	8.3	12.3
72.00	47.0	46.5	2.0	-27.0	6.9	28.9	28.4	27.86	26.30	100	11.1	11.6
88.00	48.5	48.0	2.1	-26.8	8.5	32.3	31.8	41.21	38.90	100	7.7	8.2
96.00	45.0	46.0	2.4	-27.0	9.9	30.2	31.2	32.36	36.31	150	13.3	12.3
120.00	34.0	36.0	2.6	-26.8	13.1	22.9	24.9	13.96	17.58	150	20.6	18.6
192.00	38.0		3.4	-26.2	16.6	31.8		38.90		150	11.7	
336.00	35.0	42.0	4.5	-26.8	16.4	29.1	36.1	28.51	63.83	200	16.9	9.9
432.00		32.0	5.3	-27.6	18.5		28.1		25.41	200		17.9
631.97	32.5		6.6	-28.2	19.5	30.4		33.11		200	15.6	
800.00	23.5		7.4	-27.8	21.9	25.0		17.78		200	21.0	

Class B limit

Radiated Emission – 3 meter distance

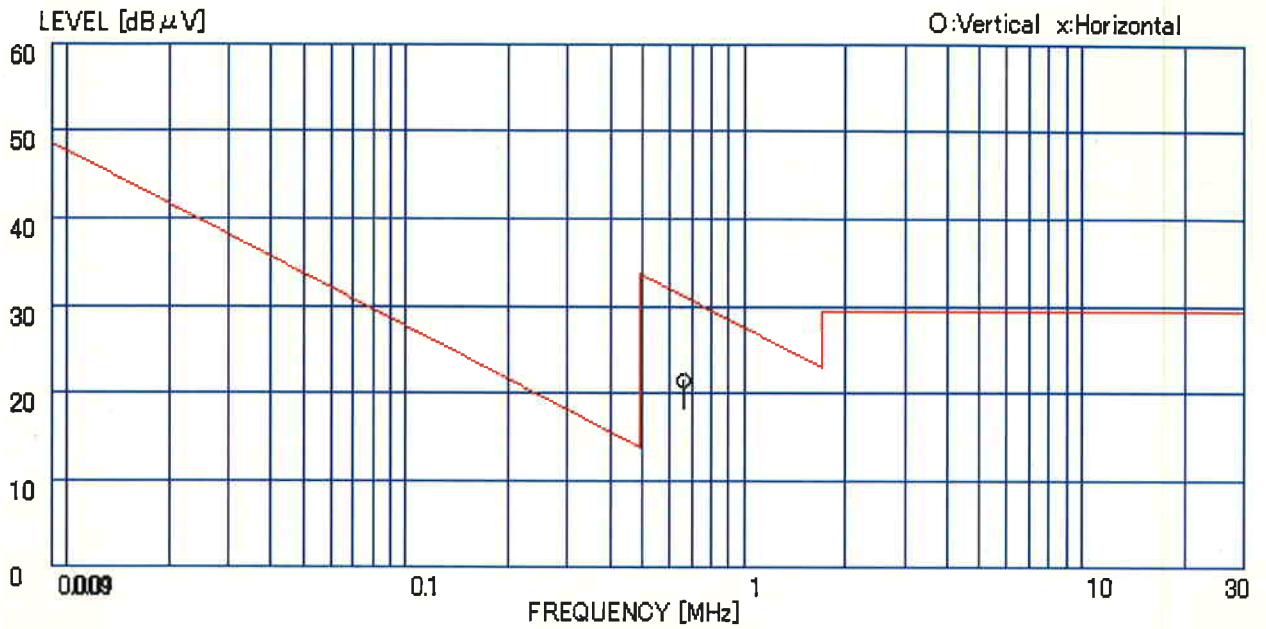
Frequency (MHz)	dBμV/m	μV/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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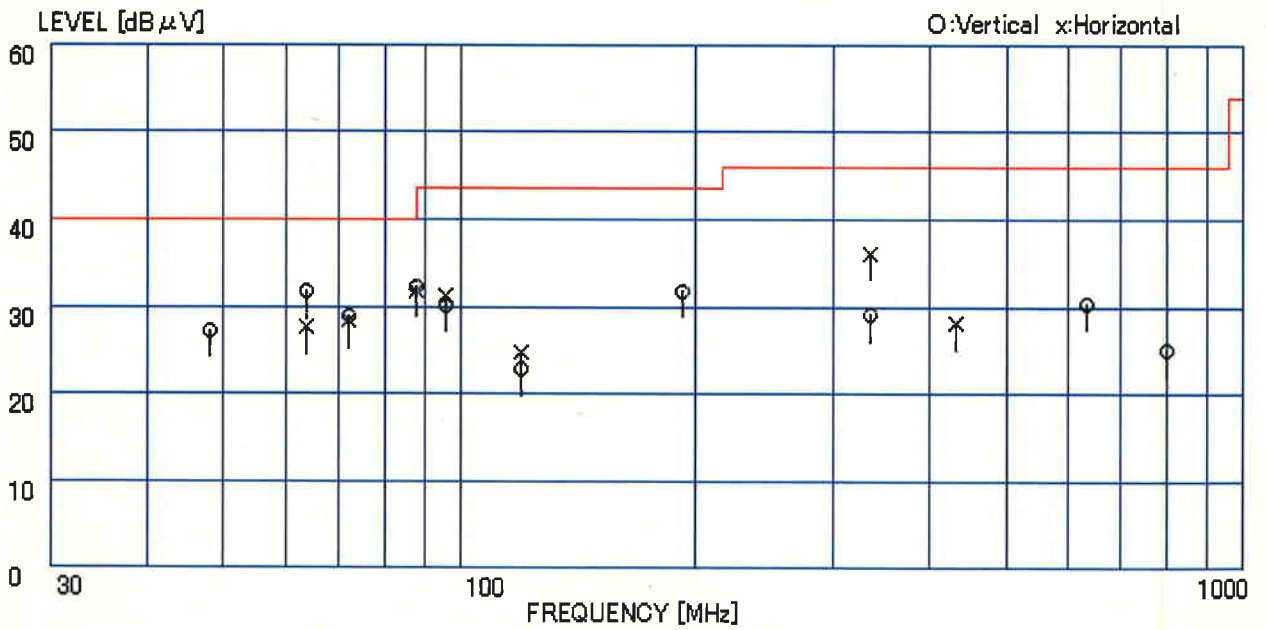

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Tested by


 Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-9 RFI Field Strength Measurement Results

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K. Maeshima

Hiroko Nakamura
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Kazunori Maeshima, Engineer

Table 6.2-10a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-400E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		30 Meter Limit (dBμV/m)	Margin	
	Ver.	Hor.				Ver.	Hor.		Ver.	Hor.
0.67	2.0		0.3	0.0	19.2	21.5	11.89	31.1	9.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-10b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-400E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		Result		3 Meter Limit (μ V/m)	Margin	
	Ver. (dB μ V)	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	42.0		1.6	-27.0	10.7	27.3		23.17		100	12.7	
64.00	51.0	47.0	1.8	-27.0	6.9	32.7	28.7	43.15	27.23	100	7.3	11.3
72.00	46.0	47.0	2.0	-27.0	6.9	27.9	28.9	24.83	27.86	100	12.1	11.1
88.00	49.5	52.0	2.1	-26.8	8.5	33.3	35.8	46.24	61.66	100	6.7	4.2
96.00	44.0	46.0	2.4	-27.0	9.9	29.2	31.2	28.84	36.31	150	14.3	12.3
120.00	34.0	36.0	2.6	-26.8	13.1	22.9	24.9	13.96	17.58	150	20.6	18.6
192.00	39.0		3.4	-26.2	16.6	32.8		43.65		150	10.7	
336.00	35.0	42.0	4.5	-26.8	16.4	29.1	36.1	28.51	63.83	200	16.9	9.9
432.00		32.0	5.3	-27.6	18.5		28.1		25.41	200		17.9
631.97	32.5		6.6	-28.2	19.5	30.4		33.11		200	15.6	
800.00	23.5		7.4	-27.8	21.9	25.0		17.78		200	21.0	

Class B limit

Radiated Emission - 3 meter distance

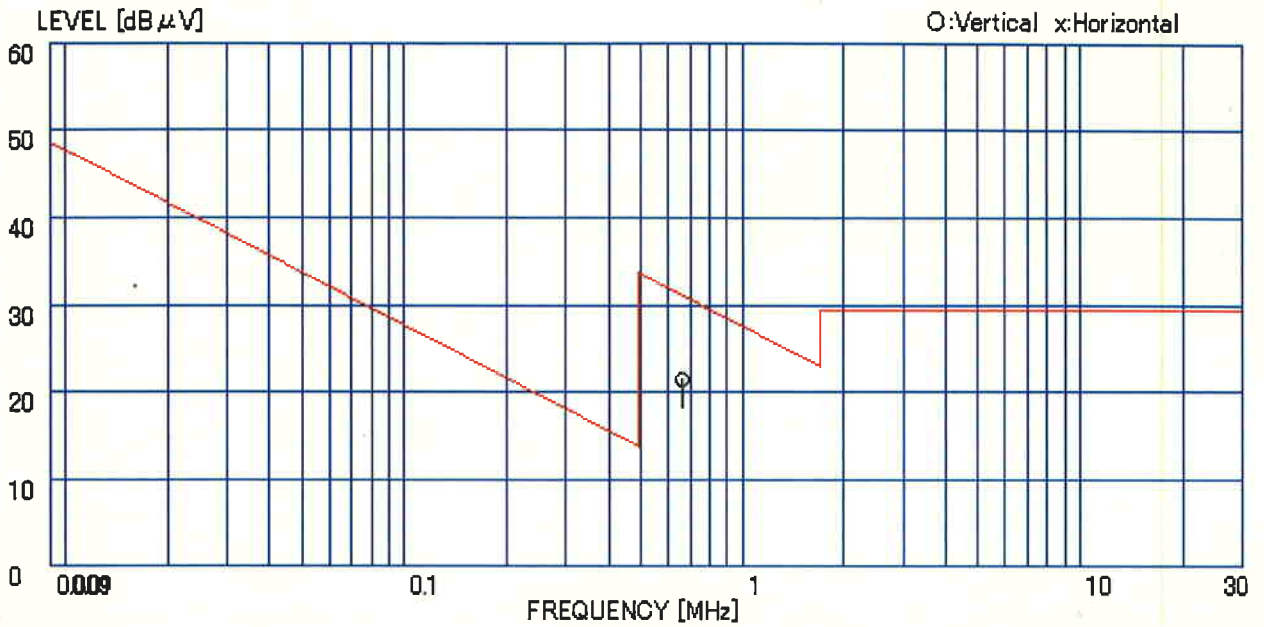
Frequency (MHz)	dB μ V/m	μ V/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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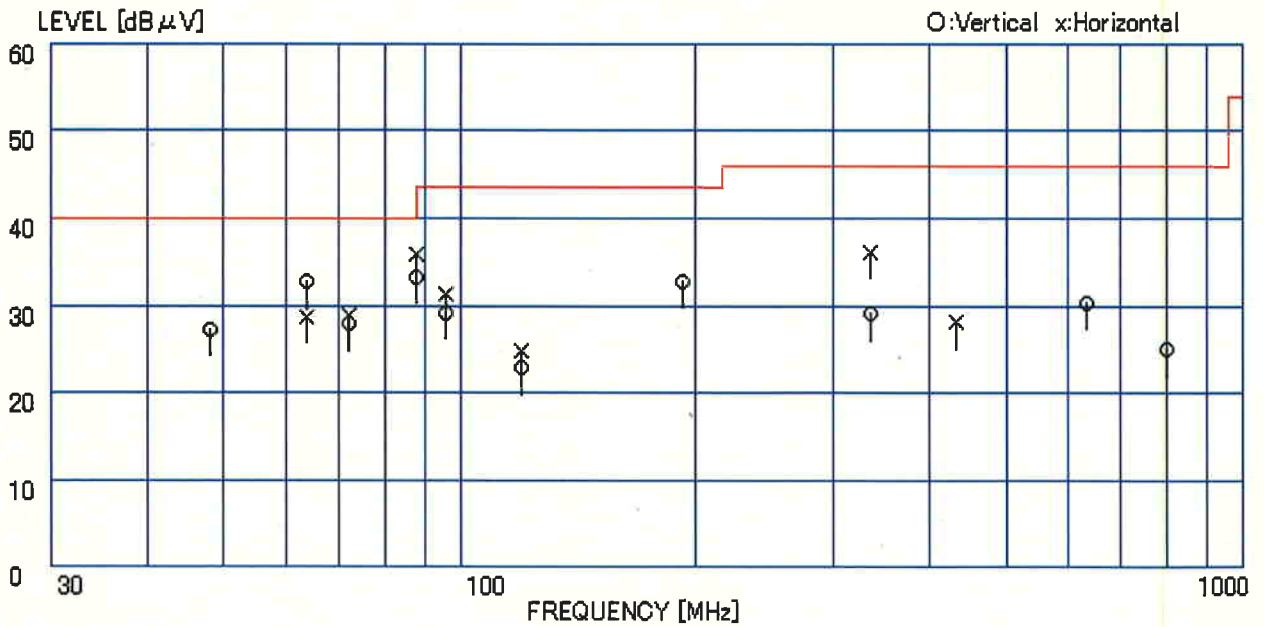

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Tested by


 Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-10 RFI Field Strength Measurement Results

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Kazunori Maeshima, Engineer

Table 6.2-11a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-501E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*
 Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		30 Meter Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver. (μV/m)	Hor.		Ver. (dB)	Hor.
0.67	1.0		0.3	0.0	19.2	20.5	10.59	31.1	10.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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 Kazunori Maeshima, Engineer

Table 6.2-11b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-501E
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level (dBμV)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dBμV/m)		Result (μV/m)		3 Meter Limit (μV/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	42.0		1.6	-27.0	10.7	27.3		23.17		100	12.7	
64.00	50.0	46.0	1.8	-27.0	6.9	31.7	27.7	38.46	24.27	100	8.3	12.3
72.00	46.0	46.0	2.0	-27.0	6.9	27.9	27.9	24.83	24.83	100	12.1	12.1
88.00	48.0	48.0	2.1	-26.8	8.5	31.8	31.8	38.90	38.90	100	8.2	8.2
96.00	45.0	46.0	2.4	-27.0	9.9	30.2	31.2	32.36	36.31	150	13.3	12.3
120.00	34.0	37.0	2.6	-26.8	13.1	22.9	25.9	13.96	19.72	150	20.6	17.6
192.00	38.0		3.4	-26.2	16.6	31.8		38.90		150	11.7	
336.00	35.0	42.0	4.5	-26.8	16.4	29.1	36.1	28.51	63.83	200	16.9	9.9
432.00		32.0	5.3	-27.6	18.5		28.1		25.41	200		17.9
631.97	32.5		6.6	-28.2	19.5	30.4		33.11		200	15.6	
800.00	23.5		7.4	-27.8	21.9	25.0		17.78		200	21.0	

Class B limit

Radiated Emission – 3 meter distance

Frequency (MHz)	dBμV/m	μV/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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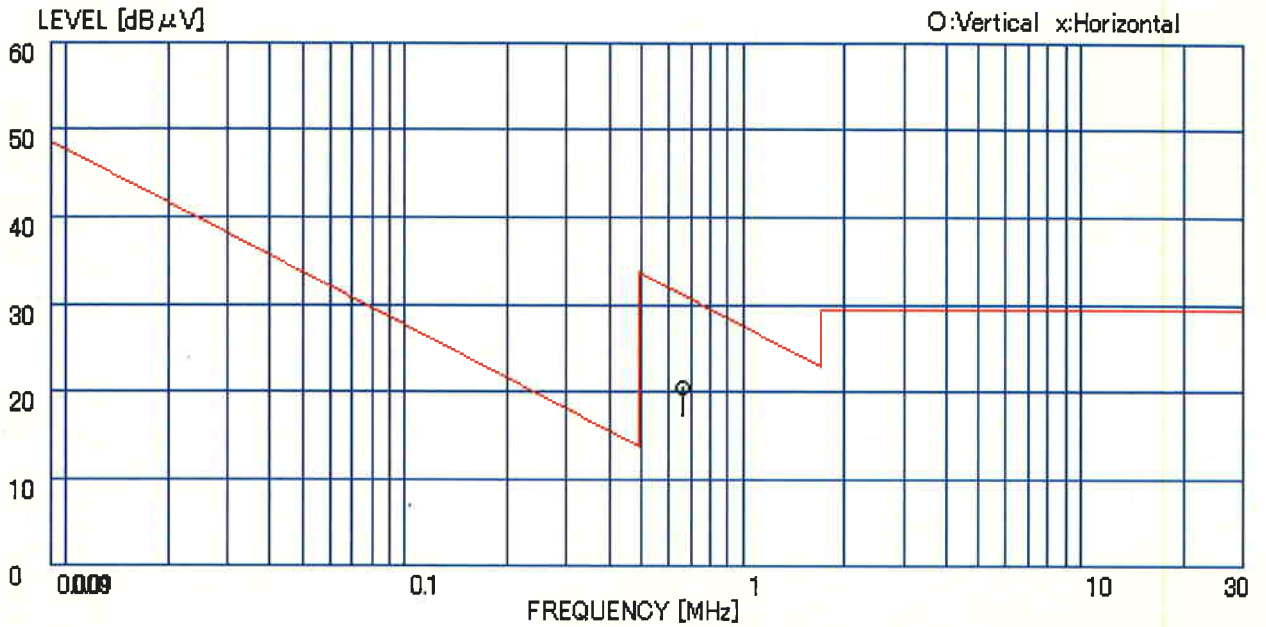


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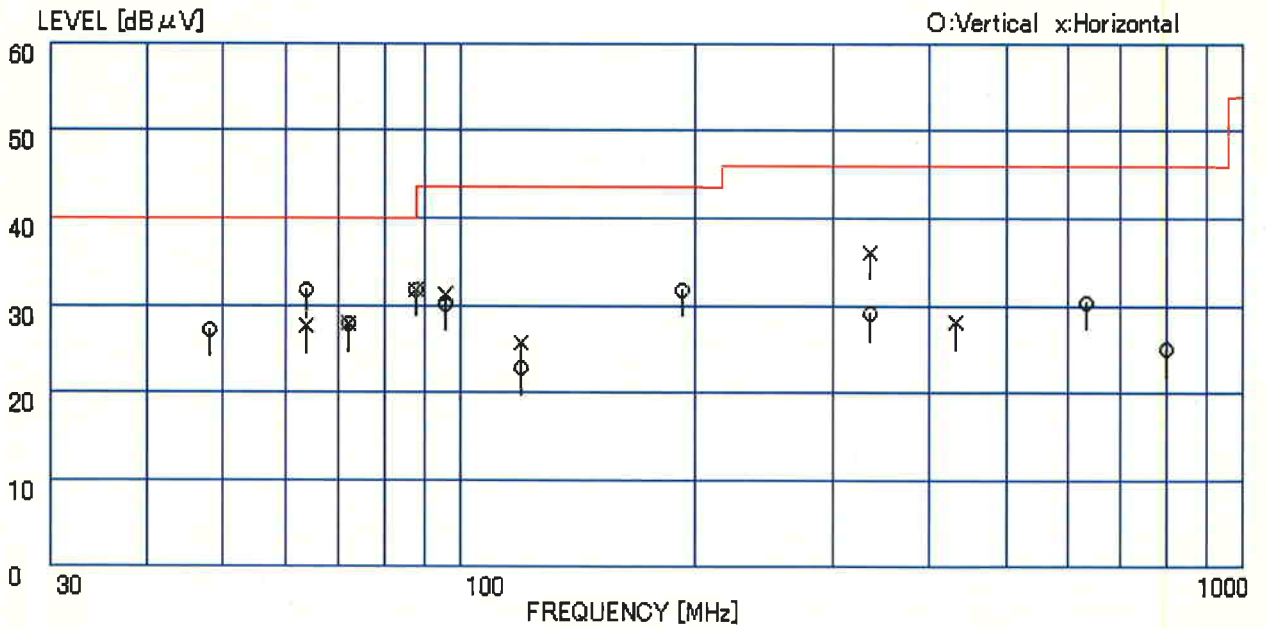
Tested by



Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-11 RFI Field Strength Measurement Results

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Table 6.2-12a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-600
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*
 Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level (dB μ V)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dB μ V/m)		30 Meter Limit (dB μ V/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.		Ver.	Hor.
0.67	2.0		0.3	0.0	19.2	21.5	11.89	31.1	9.7	

Limit

Frequency (MHz)	dB μ V/m	μ V/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-12b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-600
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		Result Ver. (μ V/m)	Result Hor. (μ V/m)	3 Meter Limit (μ V/m)	Margin	
	Ver. (dB μ V)	Hor.				Ver.	Hor.				Ver.	Hor.
48.00	42.0		1.6	-27.0	10.7	27.3		23.17		100	12.7	
64.00	49.0	45.0	1.8	-27.0	6.9	30.7	26.7	34.28	21.63	100	9.3	13.3
72.00	45.0	46.0	2.0	-27.0	6.9	26.9	27.9	22.13	24.83	100	13.1	12.1
88.00	47.0	49.0	2.1	-26.8	8.5	30.8	32.8	34.67	43.65	100	9.2	7.2
96.00	45.0	46.0	2.4	-27.0	9.9	30.2	31.2	32.36	36.31	150	13.3	12.3
120.00	34.0	36.0	2.6	-26.8	13.1	22.9	24.9	13.96	17.58	150	20.6	18.6
192.00	38.0		3.4	-26.2	16.6	31.8		38.90		150	11.7	
336.00	35.0	42.0	4.5	-26.8	16.4	29.1	36.1	28.51	63.83	200	16.9	9.9
432.00		32.0	5.3	-27.6	18.5		28.1		25.41	200		17.9
631.97	32.5		6.6	-28.2	19.5	30.4		33.11		200	15.6	
800.00	23.5		7.4	-27.8	21.9	25.0		17.78		200	21.0	

Class B limit

Radiated Emission – 3 meter distance

Frequency (MHz)	dB μ V/m	μ V/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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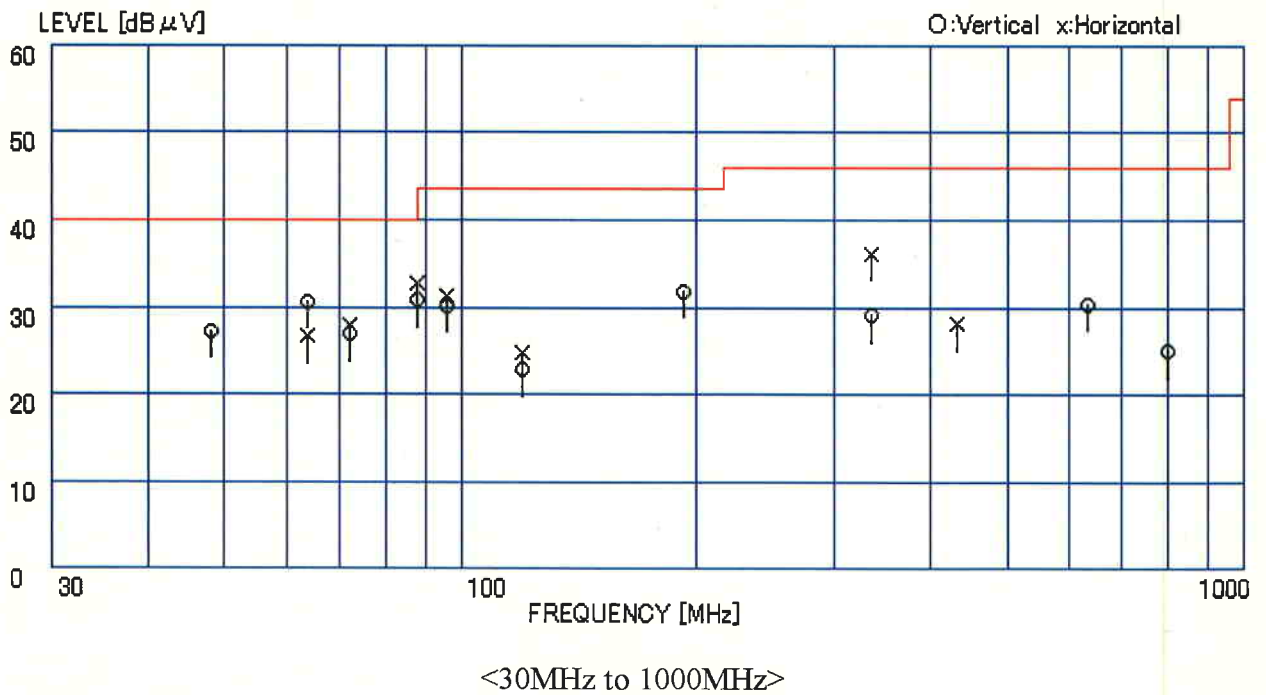
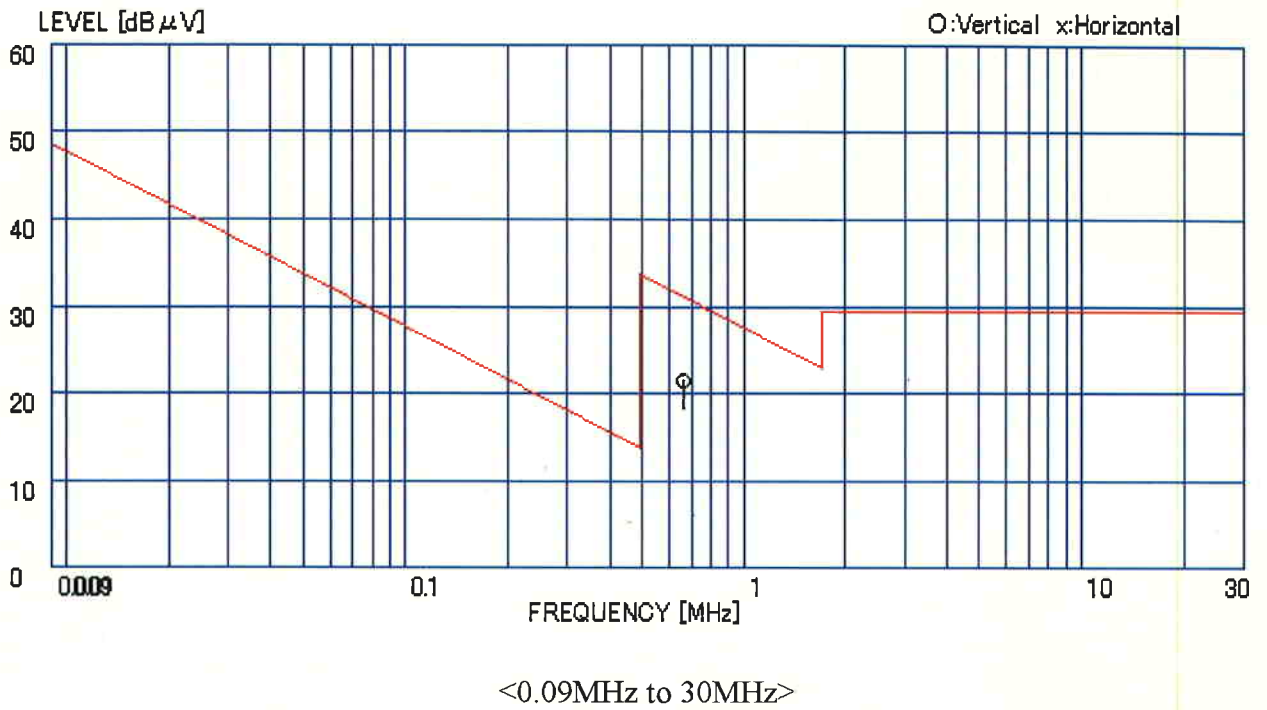


Figure 6.2-12 RFI Field Strength Measurement Results

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K. Maeshima

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Kazunori Maeshima, Engineer

Table 6.2-13a RFI Field Strength Measurement Results (Q-Peak Measurement)
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZC-100
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V
 Test distance: 3 meters*

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level (dBμV)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dBμV/m)		30 Meter Limit (dBμV/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.		Ver.	Hor.
0.67	3.0		0.3	0.0	19.2	22.5	13.34	31.1	8.7	

Limit

Frequency (MHz)	dBμV/m	μV/m	Distance(m)
0.009 ~ 0.490	48.5 ~ 13.8	2400/F(kHz)	300
0.490 ~ 1.705	33.8 ~ 23.0	24000/F(kHz)	30
1.705 ~ 30	29.5	30	30

* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.
 Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Table 6.2-13b RFI Field Strength Measurement Results (Q-Peak Measurement)
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZC-100
 Operating mode: Device detection state
 Test procedure: ANSI C63.4-2003
 Test condition: Power input 1phase AC120V
 DC5V

Date of measurement: October 26, 2005
 Temperature: 20 degree C
 Humidity: 52 %

Frequency (MHz)	Level (dB μ V)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dB μ V/m)		Result (μ V/m)		3 Meter Limit (μ V/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
48.00	42.0		1.6	-27.0	10.7	27.3		23.17		100	12.7	
64.00	43.0	45.5	1.8	-27.0	6.9	24.7	27.2	17.18	22.91	100	15.3	12.8
72.00	45.0	47.5	2.0	-27.0	6.9	26.9	29.4	22.13	29.51	100	13.1	10.6
88.00	53.0	53.0	2.1	-26.8	8.5	36.8	36.8	69.18	69.18	100	3.2	3.2
96.00	45.0	49.0	2.4	-27.0	9.9	30.2	34.2	32.36	51.29	150	13.3	9.3
120.00	35.0	39.0	2.6	-26.8	13.1	23.9	27.9	15.67	24.83	150	19.6	15.6
192.00	38.0		3.4	-26.2	16.6	31.8		38.90		150	11.7	
336.00	35.0	42.0	4.5	-26.8	16.4	29.1	36.1	28.51	63.83	200	16.9	9.9
432.00		32.0	5.3	-27.6	18.5		28.1		25.41	200		17.9
631.97	32.5		6.6	-28.2	19.5	30.4		33.11		200	15.6	
800.00	23.5		7.4	-27.8	21.9	25.0		17.78		200	21.0	

Class B limit

Radiated Emission – 3 meter distance

Frequency (MHz)	dB μ V/m	μ V/m
30 - 88	40.0	100
88 - 216	43.5	150
216 - 960	46.0	200
> 960	54.0	500

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 15/Dec./2005

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