

DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting(1ch)
Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation : FCC Part15. 207


Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dB]	AV
1.	0.4920	25.3	-	24.5	-	0.1	0.1	0.0	25.5	-	48.0	0.0	22.5	-
2.	0.6062	24.9	-	28.0	-	0.1	0.1	0.0	28.2	-	48.0	0.0	19.8	-
3.	0.7218	27.5	-	26.6	-	0.1	0.1	0.0	27.7	-	48.0	0.0	20.3	-
4.	0.8461	26.1	-	21.0	-	0.1	0.1	0.0	26.3	-	48.0	0.0	21.7	-
5.	1.0437	17.8	-	22.4	-	0.1	0.1	0.0	22.6	-	48.0	0.0	25.4	-
6.	3.6083	21.4	-	19.5	-	0.2	0.2	0.0	21.8	-	48.0	0.0	26.2	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

All other spurious emissions were less than 20dB for the limit.

DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

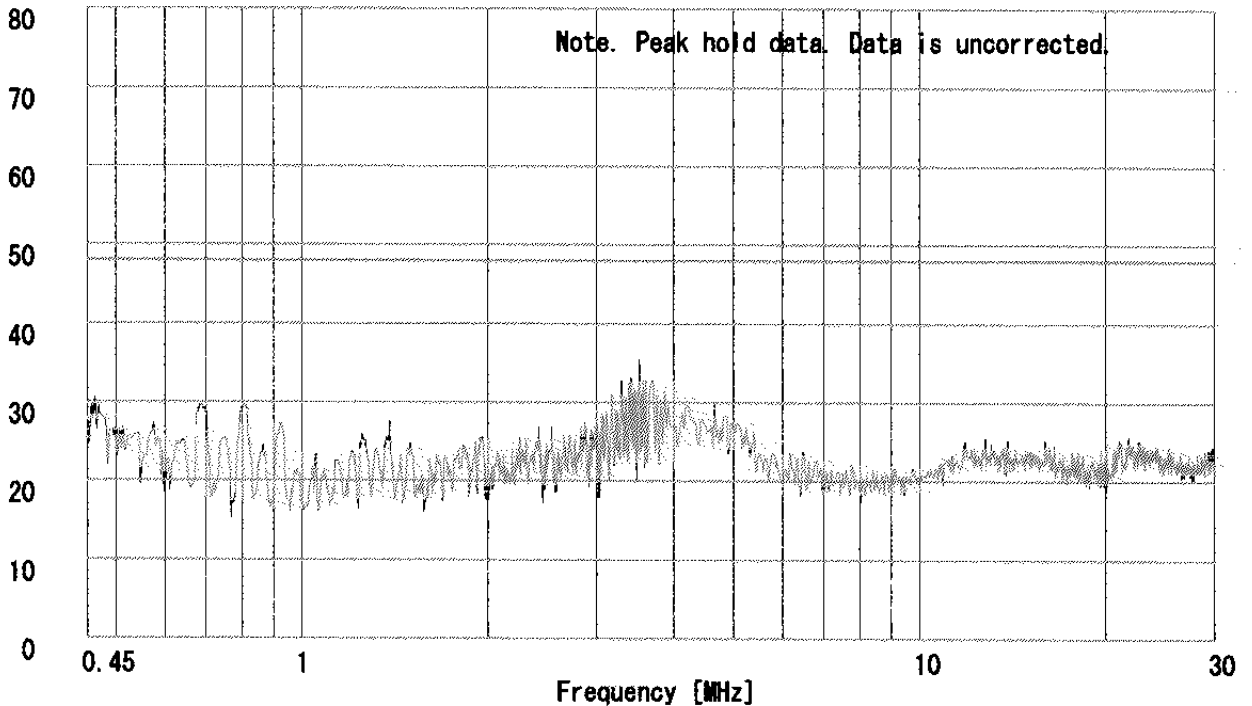
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting(1ch)
Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

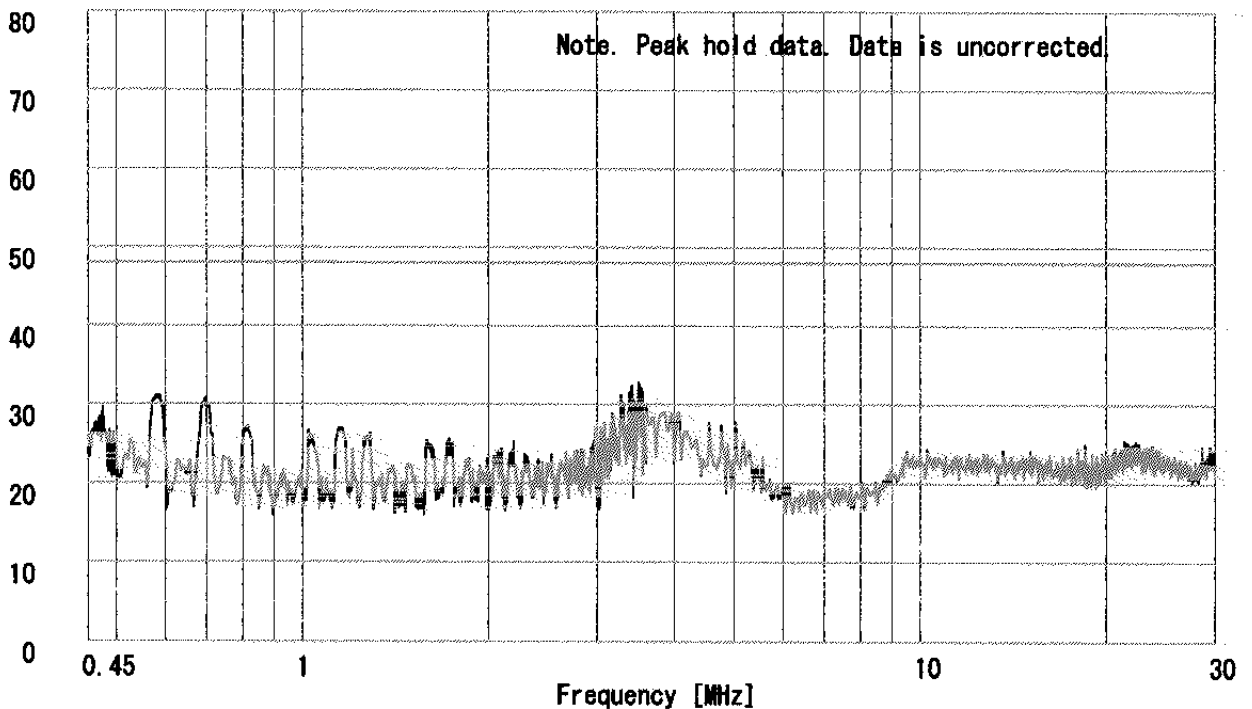
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

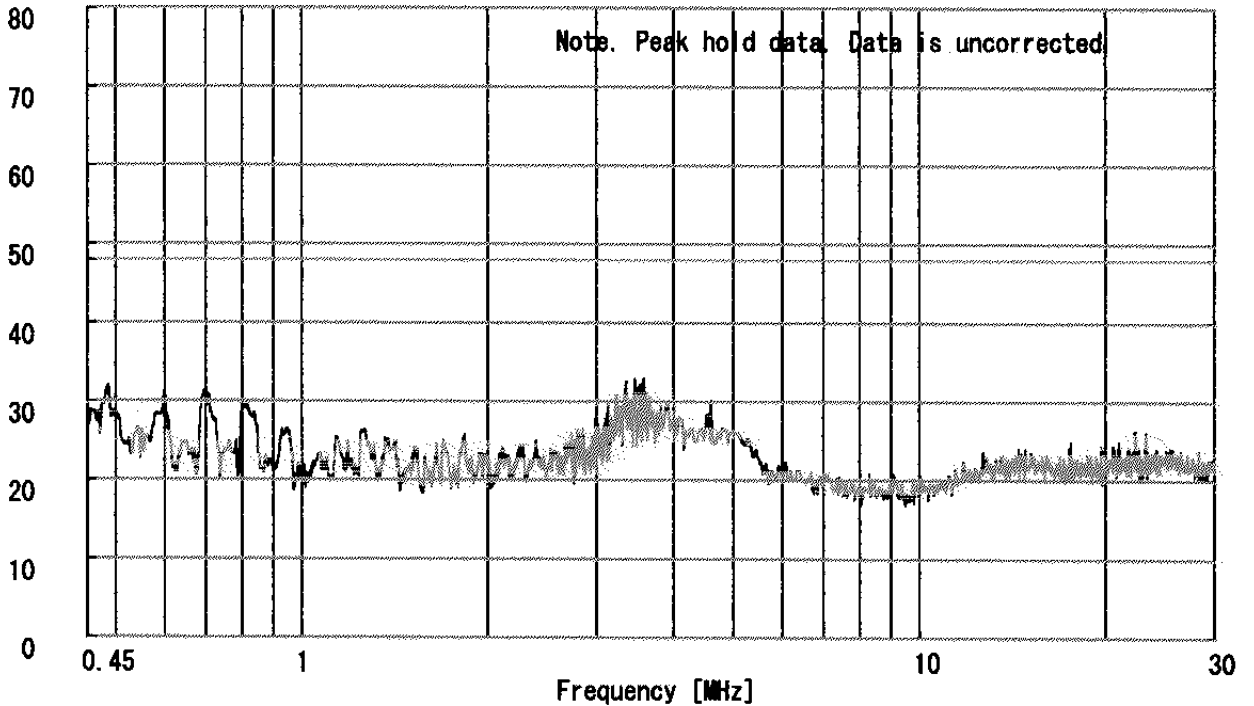
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting (6ch)
Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

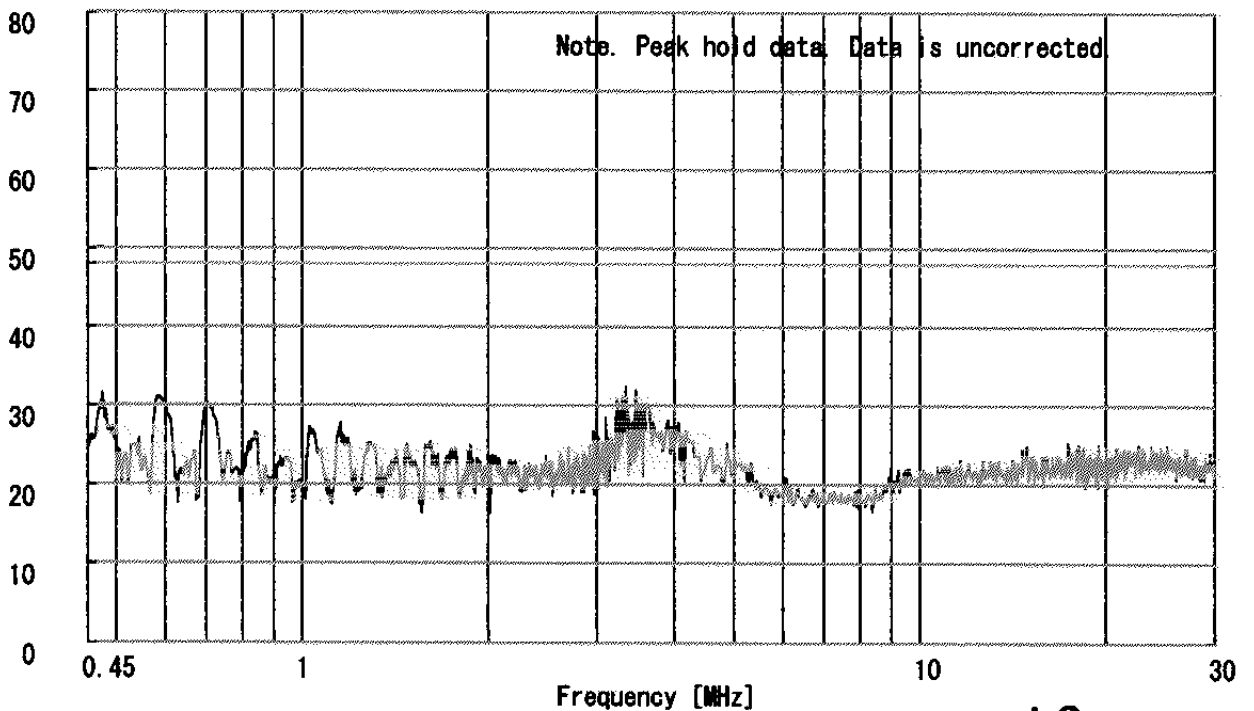
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

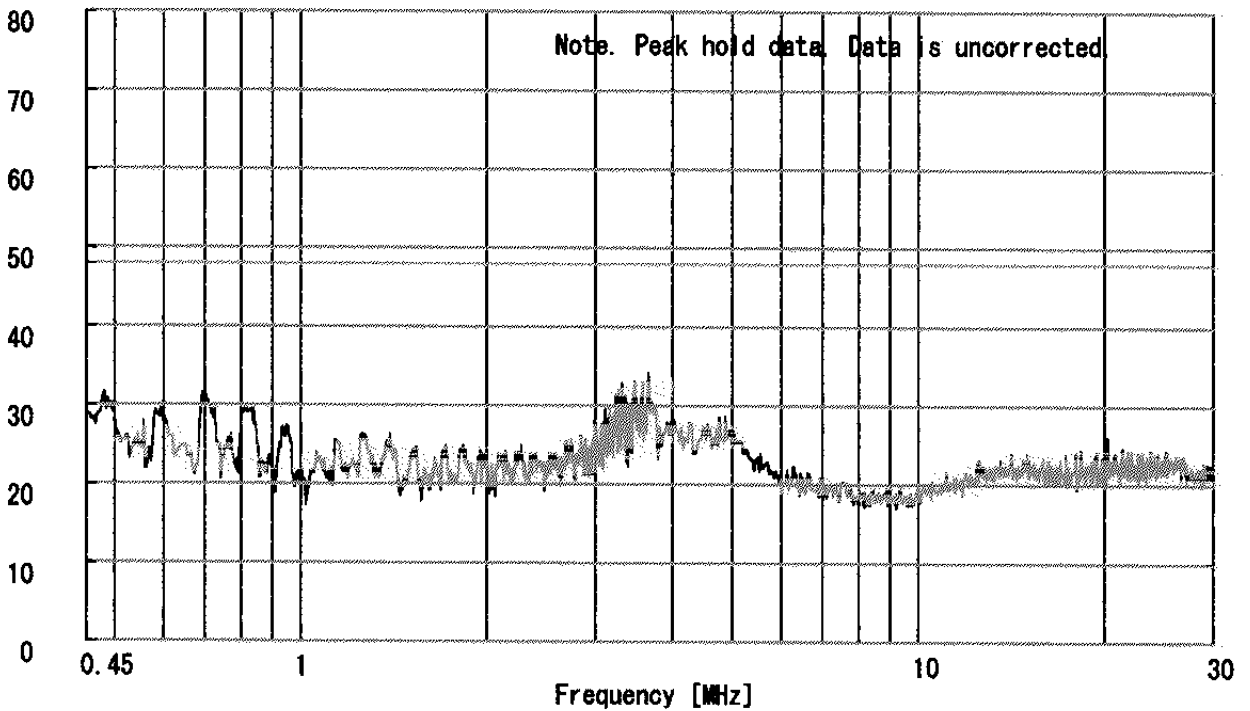
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting(11ch)
Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

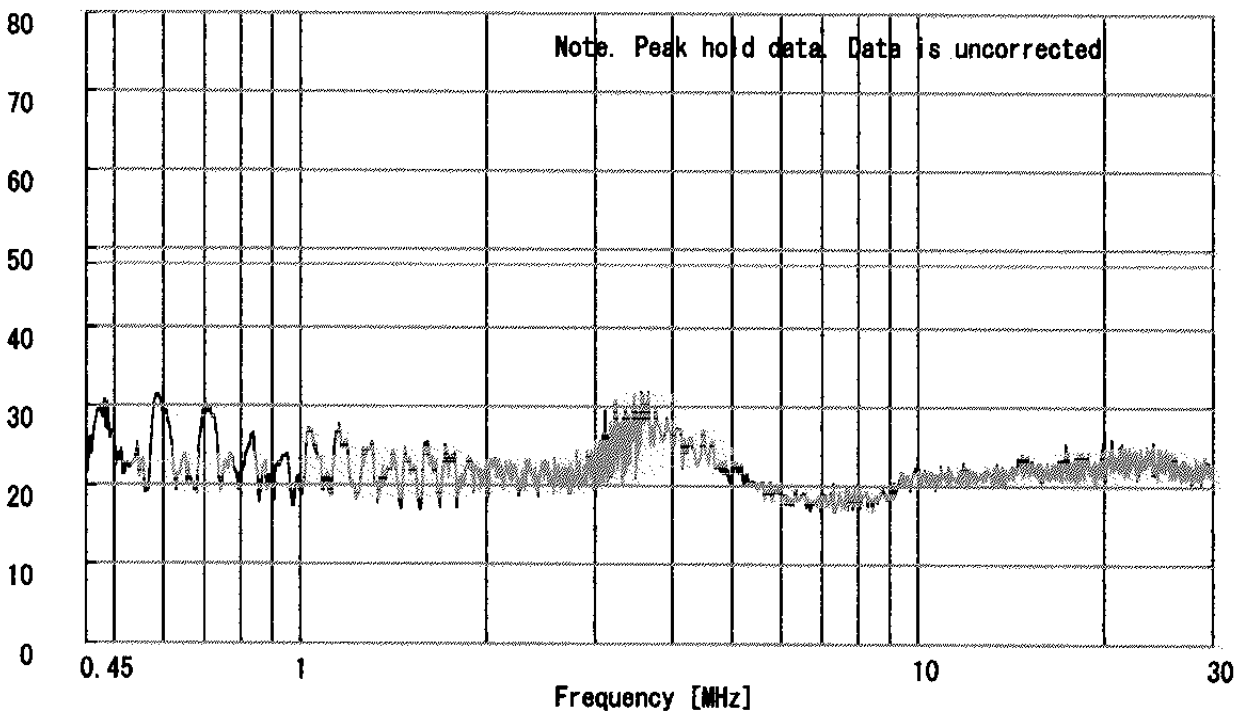
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1

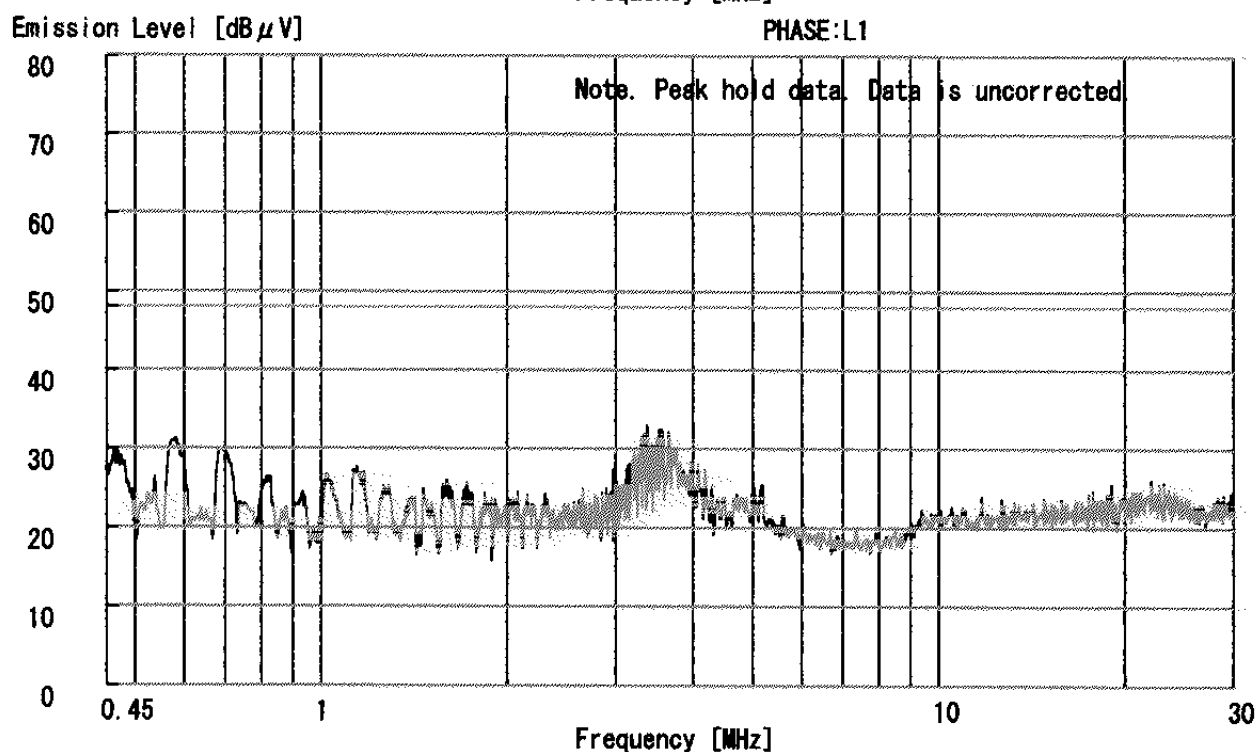
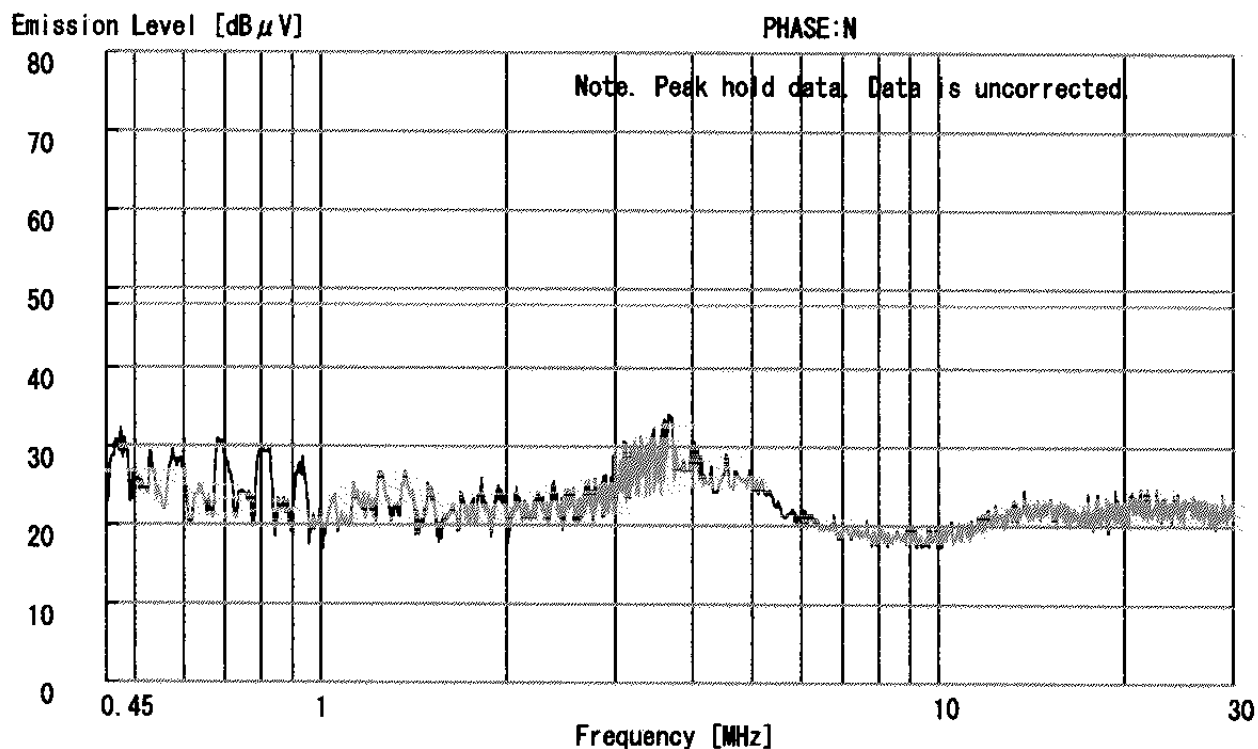


DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Receiving
Remarks : Whip Antenna / FCC ID AGJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto



DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
 Kind of Equipment : Wireless LAN builtin PC
 Model No. : CF-28
 Serial No. : 6
 Power : AC120V/60Hz
 Mode : Transmitting(1ch)
 Remarks : External Antenna / FCC ID ACJ9TGCF-281
 Date : 2/27/2002
 Phase : Single Phase
 Temperature : 22 °C
 Humidity : 32 %
 Regulation : FCC Part15. 207


Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dBuV]	AV
1.	0.4938	26.8	-	27.0	-	0.1	0.1	0.0	27.2	-	48.0	0.0	20.8	-
2.	0.6066	25.5	-	28.4	-	0.1	0.1	0.0	28.6	-	48.0	0.0	19.4	-
3.	0.7203	27.8	-	26.1	-	0.1	0.1	0.0	28.0	-	48.0	0.0	20.0	-
4.	0.8489	25.3	-	21.6	-	0.1	0.1	0.0	25.5	-	48.0	0.0	22.5	-
5.	1.0479	19.1	-	23.1	-	0.1	0.1	0.0	23.3	-	48.0	0.0	24.7	-
6.	3.6075	22.9	-	21.0	-	0.2	0.2	0.0	23.3	-	48.0	0.0	24.7	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

All other spurious emissions were less than 20dB for the limit.

DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

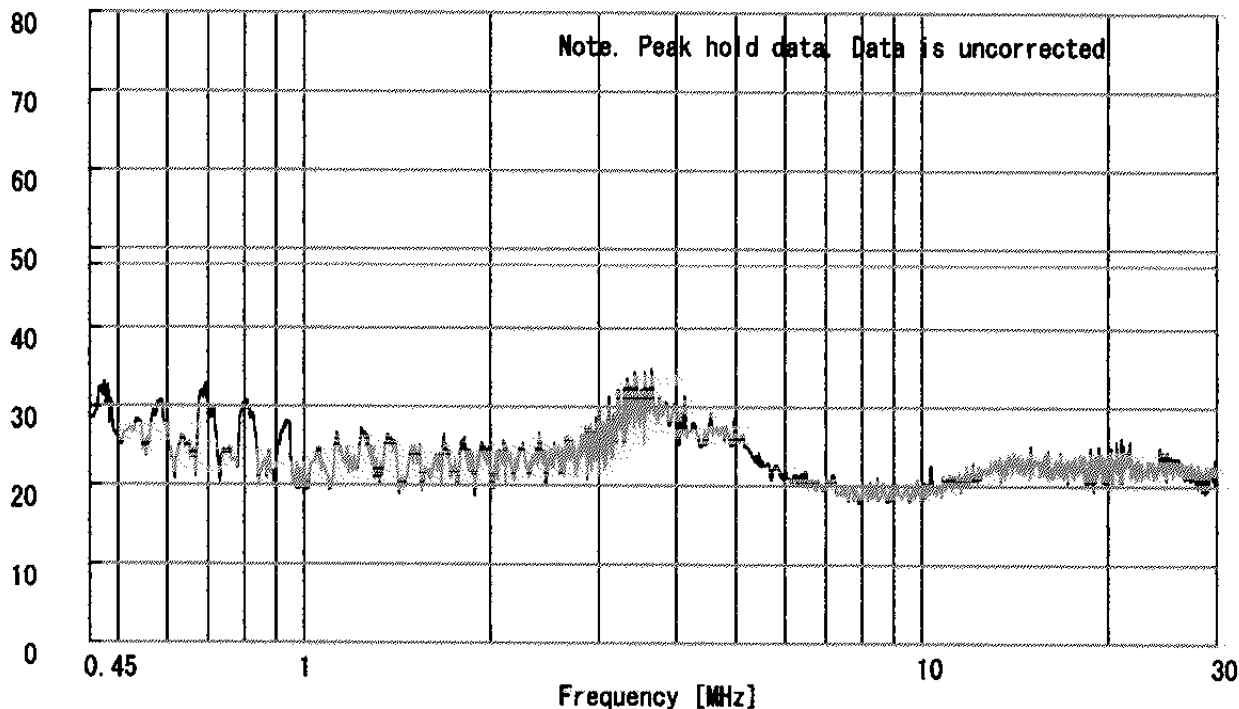
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting(1ch)
Remarks : External Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

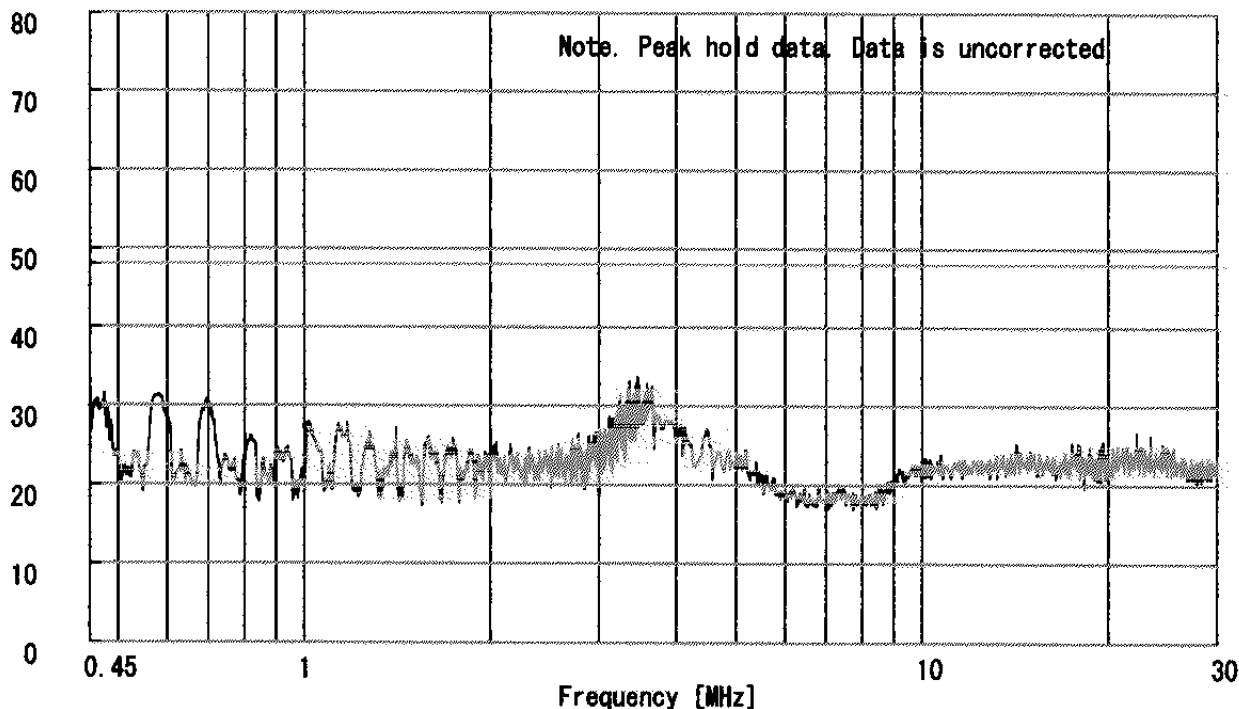
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

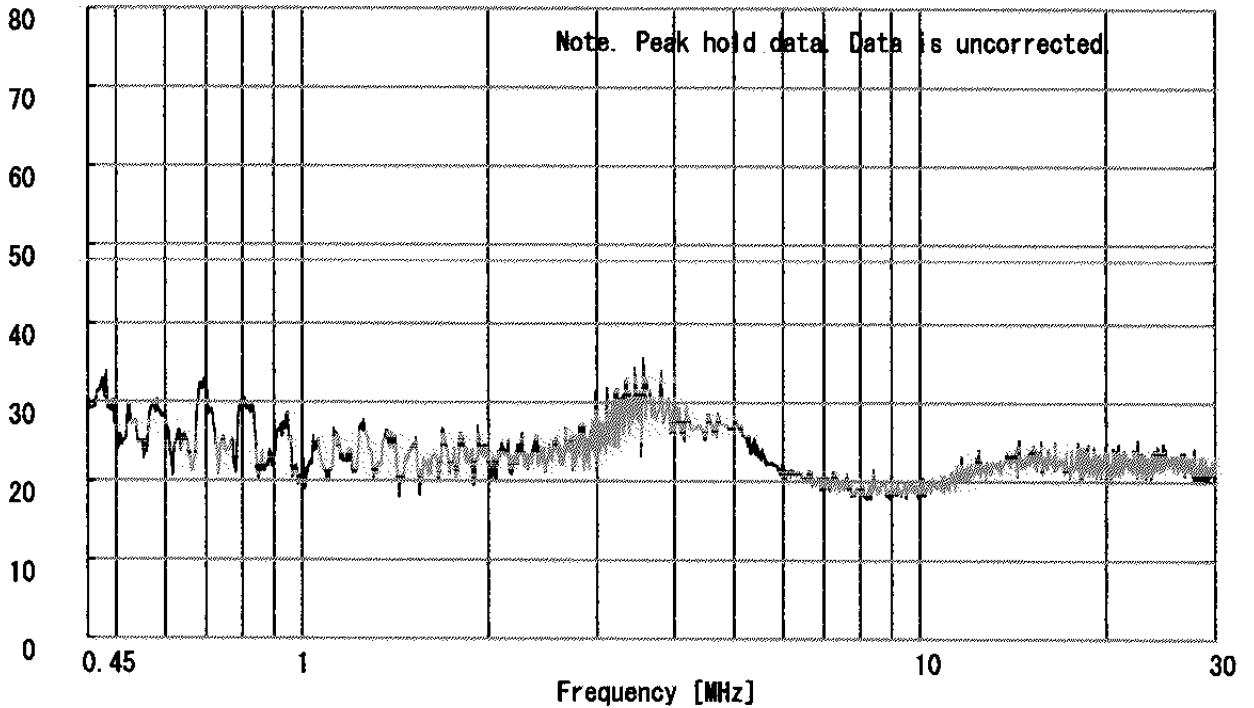
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co.,Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting (6ch)
Remarks : External Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

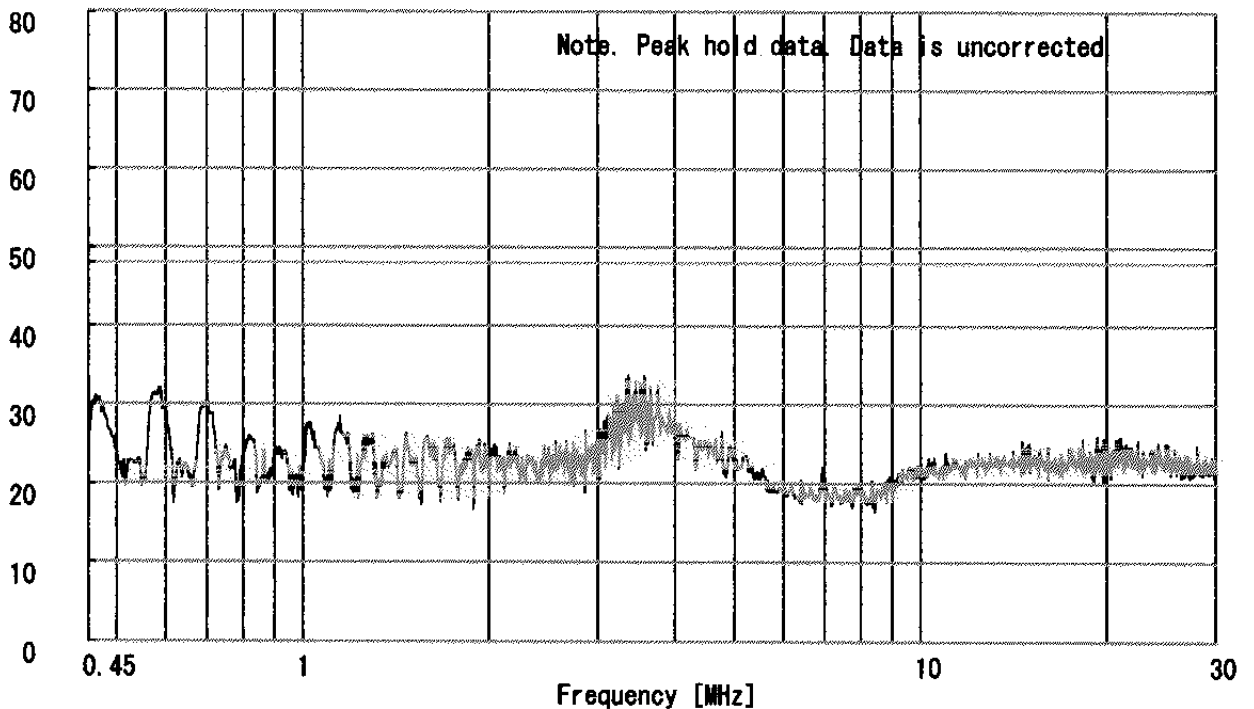
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

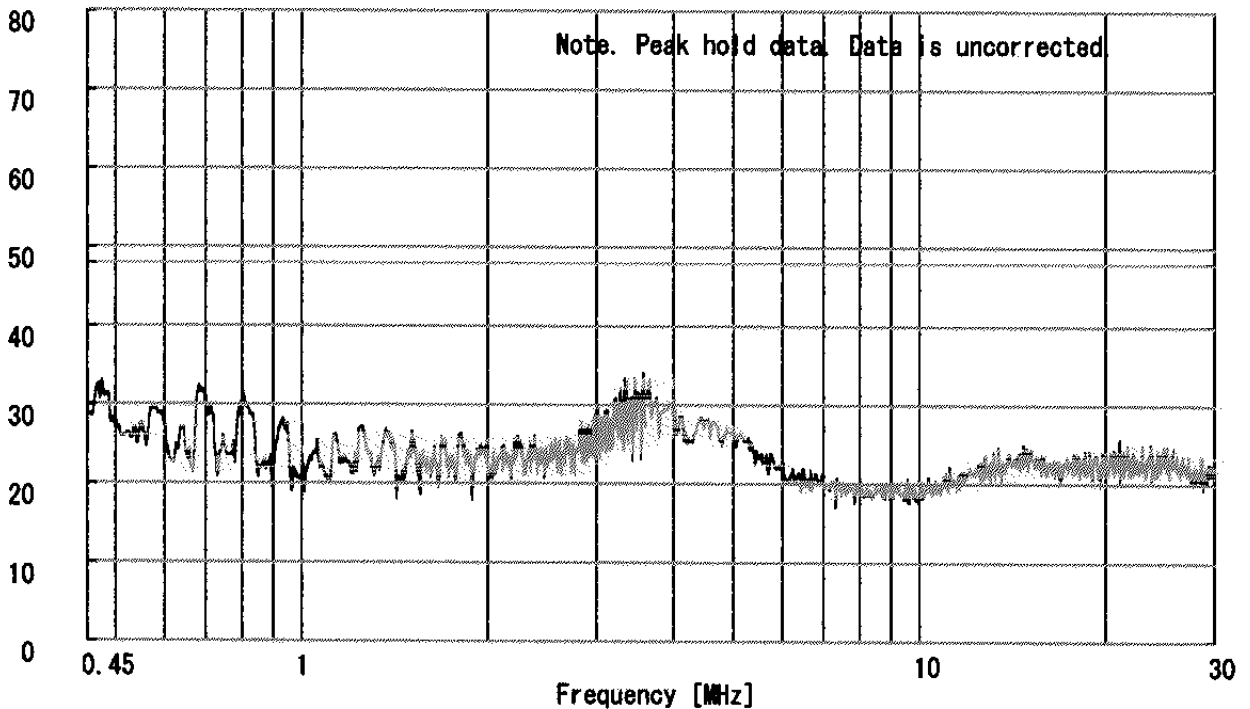
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting(11ch)
Remarks : External Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

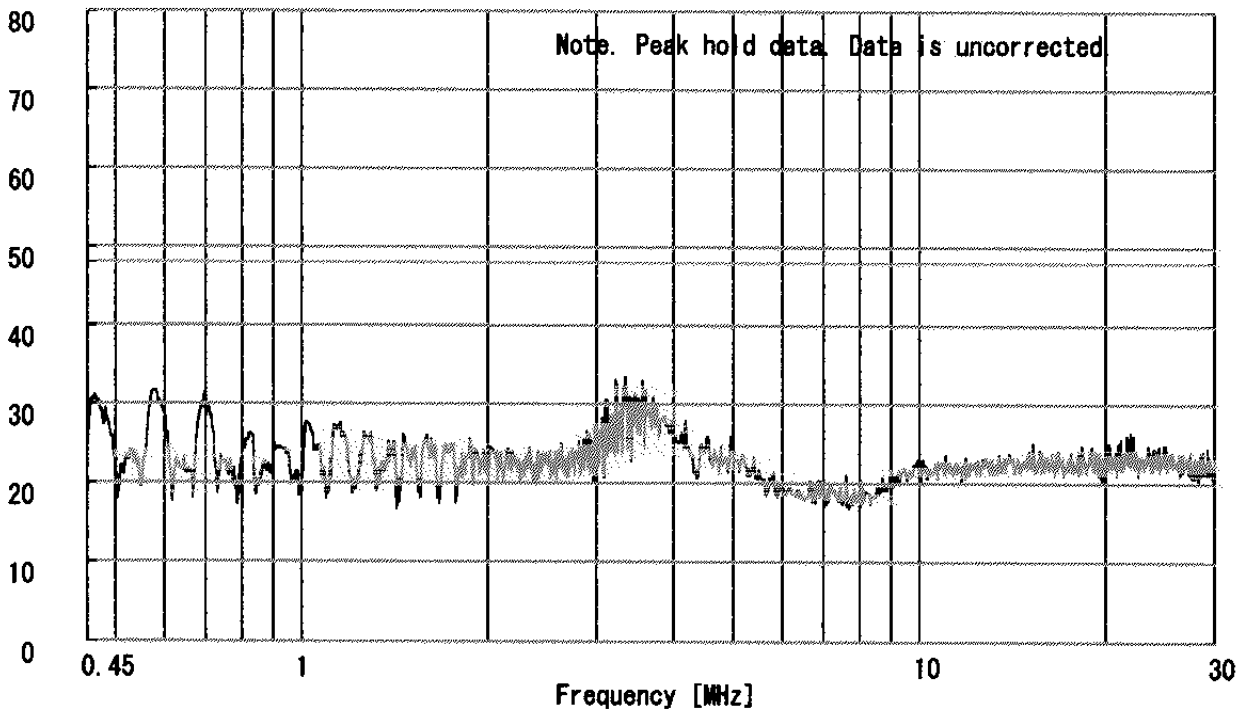
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

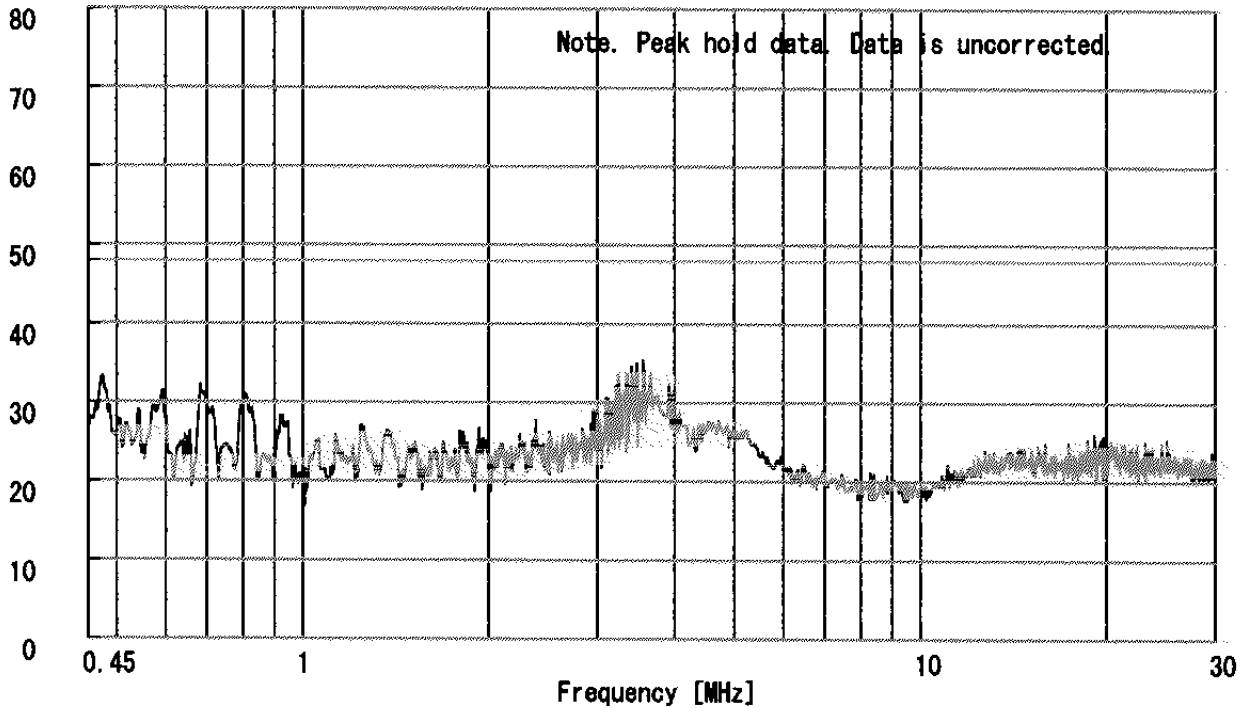
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Receiving
Remarks : External Antenna / FCC ID ACJ9TGCF-281
Date : 2/27/2002
Phase : Single Phase
Temperature : 22 °C
Humidity : 32 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

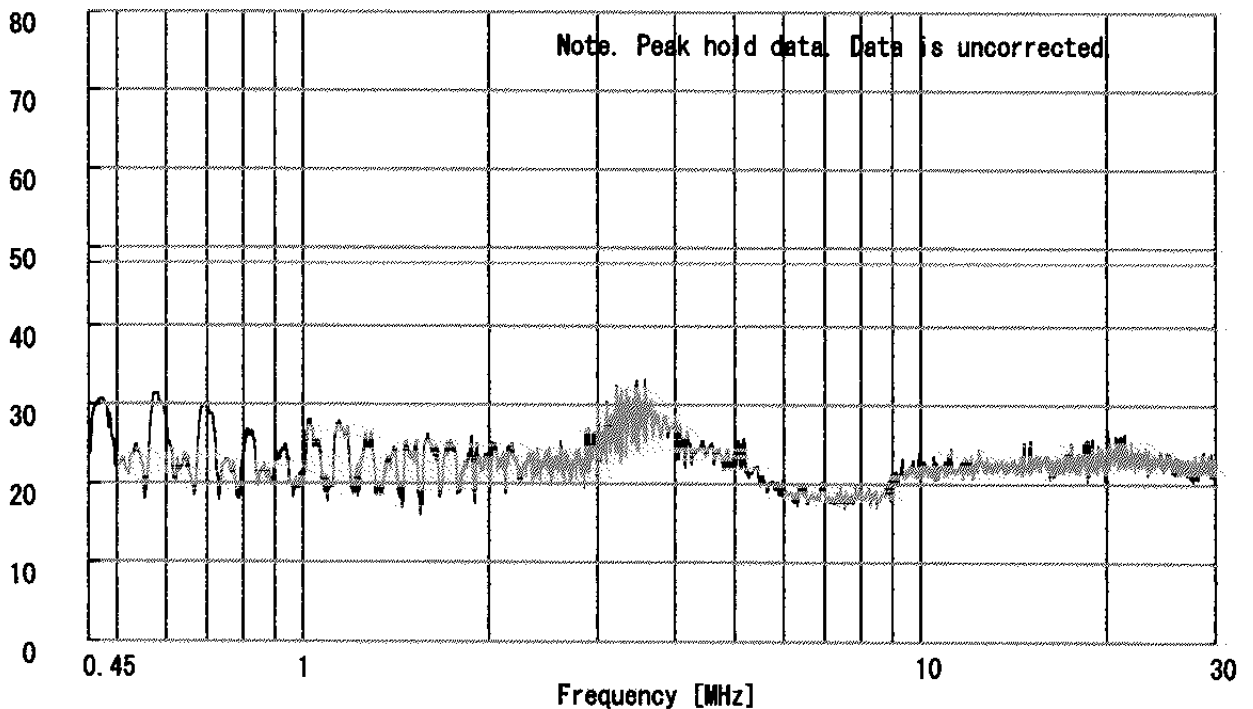
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting(1ch)
Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
Date : 2/18/2002
Test Distance : 3 m
Temperature : 20 °C
Humidity : 66 %
Regulation : Fcc 15C § 15.209(a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	92.03	BB	31.2	34.1	8.3	27.9	1.8	5.9	19.3	22.2	43.5	24.2	21.3	
2.	100.00	BB	31.1	38.2	10.1	27.9	1.9	5.9	21.1	28.2	43.5	22.4	15.3	
3.	200.47	BB	27.3	30.0	16.4	27.8	2.8	5.9	24.6	27.3	43.5	18.9	16.2	
4.	308.01	BB	37.7	31.9	14.3	27.6	3.5	5.8	33.7	27.9	46.0	12.3	18.1	
5.	315.00	BB	33.3	26.4	14.4	27.6	3.6	5.8	29.5	22.6	46.0	16.5	23.4	
6.	343.65	BB	35.7	36.0	14.7	27.6	3.8	5.9	32.5	32.8	46.0	13.5	13.2	
7.	664.49	BB	30.5	33.5	20.0	27.1	5.6	5.8	34.8	37.8	46.0	11.2	8.2	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
 Kind of Equipment : Wireless LAN builtin PC
 Model No. : CF-28
 Serial No. : 6
 Power : AC120V/60Hz
 Mode : Transmitting(6ch)
 Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
 Date : 2/18/2002
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 66 %
 Regulation : Fcc 15C § 15.209(a)


Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	66.60	BB	24.7	32.3	6.5	27.9	1.5	5.9	10.7	18.3	40.0	29.3	21.7
2.	92.01	BB	28.4	32.4	8.3	27.9	1.8	5.9	16.5	20.5	43.5	27.0	23.0
3.	100.02	BB	27.0	37.1	10.1	27.9	1.9	5.9	17.0	27.1	43.5	26.5	16.4
4.	200.47	BB	23.0	22.2	16.4	27.8	2.8	5.9	20.3	19.5	43.5	23.2	24.0
5.	240.01	BB	24.2	26.0	16.6	27.7	3.1	5.9	22.1	23.9	46.0	23.9	22.1
6.	308.01	BB	37.4	34.1	14.3	27.6	3.5	5.8	33.4	30.1	46.0	12.6	15.9
7.	315.00	BB	31.8	31.2	14.4	27.6	3.6	5.8	28.0	27.4	46.0	18.0	18.6
8.	343.63	BB	32.1	37.7	14.7	27.6	3.8	5.9	28.9	34.5	46.0	17.1	11.5
9.	664.51	BB	28.8	31.2	20.0	27.1	5.6	5.8	33.1	35.5	46.0	12.9	10.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co.,Ltd
 Kind of Equipment : Wireless LAN builtin PC
 Model No. : CF-28
 Serial No. : 6
 Power : AC120V/60Hz
 Mode : Transmitting(11ch)
 Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
 Date : 2/18/2002
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 66 %
 Regulation : Fcc 15C § 15.209(a)


Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP. GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	66.60	BB	25.2	32.8	6.5	27.9	1.5	5.9	11.2	18.8	40.0	28.8	21.2
2.	92.01	BB	29.0	32.5	8.3	27.9	1.8	5.9	17.1	20.6	43.5	26.4	22.9
3.	100.39	BB	26.5	37.0	10.2	27.9	1.9	5.9	16.6	27.1	43.5	26.9	16.4
4.	200.44	BB	27.2	28.0	16.4	27.8	2.8	5.9	24.5	25.3	43.5	19.0	18.2
5.	240.04	BB	33.9	29.8	16.6	27.7	3.1	5.9	31.8	27.7	46.0	14.2	18.3
6.	308.00	BB	37.6	36.4	14.3	27.6	3.5	5.8	33.6	32.4	46.0	12.4	13.6
7.	315.00	BB	31.9	28.7	14.4	27.6	3.6	5.8	28.1	24.9	46.0	17.9	21.1
8.	343.63	BB	34.3	36.1	14.7	27.6	3.8	5.9	31.1	32.9	46.0	14.9	13.1
9.	664.53	BB	28.9	31.0	20.0	27.1	5.6	5.8	33.2	35.3	46.0	12.8	10.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co.,Ltd
 Kind of Equipment : Wireless LAN builtin PC
 Model No. : CF-28
 Serial No. : 6
 Power : AC120V/60Hz
 Mode : Receiving
 Remarks : Whip Antenna / FCC ID ACJ9TGCF-281
 Date : 2/18/2002
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 66 %
 Regulation : Fcc 15C § 15.209(a)


Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	100.39	BB	26.4	36.4	10.2	27.9	1.9	5.9	16.5	26.5	43.5	27.0	17.0	
2.	200.45	BB	26.8	25.4	16.4	27.8	2.8	5.9	24.1	22.7	43.5	19.4	20.8	
3.	240.05	BB	30.9	28.2	16.6	27.7	3.1	5.9	28.8	26.1	46.0	17.2	19.9	
4.	308.01	BB	31.9	28.7	14.3	27.6	3.5	5.8	27.9	24.7	46.0	18.1	21.3	
5.	315.01	BB	29.6	28.6	14.4	27.6	3.6	5.8	25.8	24.8	46.0	20.2	21.2	
6.	343.65	BB	32.0	34.2	14.7	27.6	3.8	5.9	28.8	31.0	46.0	17.2	15.0	
7.	664.55	BB	27.7	31.5	20.0	27.1	5.6	5.8	32.0	35.8	46.0	14.0	10.2	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
 Kind of Equipment : Wireless LAN builtin PC
 Model No. : CF-28
 Serial No. : 6
 Power : AC120V/60Hz
 Mode : Transmitting(1ch)
 Remarks : External Antenna / FCC ID ACJ9TGCF-281
 Date : 2/18/2002
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 66 %
 Regulation : Fcc 15C § 15.209(a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP. GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	66.54	BB	31.1	39.5	6.5	27.9	1.5	5.9	17.1	25.5	40.0	22.9	14.5
2.	100.00	BB	34.6	37.4	10.1	27.9	1.9	5.9	24.6	27.4	43.5	18.9	16.1
3.	132.89	BB	39.3	37.0	13.8	27.8	2.2	5.9	33.4	31.1	43.5	10.1	12.4
4.	200.48	BB	28.6	28.0	16.4	27.8	2.8	5.9	25.9	25.3	43.5	17.6	18.2
5.	240.55	BB	30.0	34.0	16.6	27.7	3.1	5.9	27.9	31.9	46.0	18.1	14.1
6.	308.00	BB	42.6	41.2	14.3	27.6	3.5	5.8	38.6	37.2	46.0	7.4	8.8
7.	314.99	BB	39.5	39.4	14.4	27.6	3.6	5.8	35.7	35.6	46.0	10.3	10.4
8.	664.58	BB	30.1	34.2	20.0	27.1	5.6	5.8	34.4	38.5	46.0	11.6	7.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
Kind of Equipment : Wireless LAN builtin PC
Model No. : CF-28
Serial No. : 6
Power : AC120V/60Hz
Mode : Transmitting(6ch)
Remarks : External Antenna / FCC ID ACJ9TGCF-281
Date : 2/18/2002
Test Distance : 3 m
Temperature : 20 °C
Humidity : 66 %
Regulation : Fcc 15C § 15.209(a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	66.51	BB	28.8	31.6	6.6	27.9	1.5	5.9	14.9	17.7	40.0	25.1	22.3
2.	100.00	BB	37.6	36.5	10.1	27.9	1.9	5.9	27.6	26.5	43.5	15.9	17.0
3.	132.90	BB	37.2	38.4	13.8	27.8	2.2	5.9	31.3	32.5	43.5	12.2	11.0
4.	200.47	BB	28.2	27.0	16.4	27.8	2.8	5.9	25.5	24.3	43.5	18.0	19.2
5.	240.05	BB	29.5	34.3	16.6	27.7	3.1	5.9	27.4	32.2	46.0	18.6	13.8
6.	308.00	BB	42.4	37.3	14.3	27.6	3.5	5.8	38.4	33.3	46.0	7.6	12.7
7.	343.65	BB	33.3	29.3	14.7	27.6	3.8	5.9	30.1	26.1	46.0	15.9	19.9
8.	664.39	BB	29.2	34.2	20.0	27.1	5.6	5.8	33.5	38.5	46.0	12.5	7.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
 Kind of Equipment : Wireless LAN builtin PC
 Model No. : CF-28
 Serial No. : 6
 Power : AC120V/60Hz
 Mode : Transmitting(11ch)
 Remarks : External Antenna / FCC ID ACJ9TGCF-281
 Date : 2/18/2002
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 66 %
 Regulation : Fcc 15C § 15.209(a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	66.48	BB	28.2	31.6	6.6	27.9	1.5	5.9	14.3	17.7	40.0	25.7	22.3
2.	100.01	BB	35.2	36.6	10.1	27.9	1.9	5.9	25.2	26.6	43.5	18.3	16.9
3.	132.93	BB	37.7	39.5	13.8	27.8	2.2	5.9	31.8	33.6	43.5	11.7	9.9
4.	200.45	BB	30.0	26.8	16.4	27.8	2.8	5.9	27.3	24.1	43.5	16.2	19.4
5.	240.03	BB	32.7	32.3	16.6	27.7	3.1	5.9	30.6	30.2	46.0	15.4	15.8
6.	308.01	BB	38.6	35.3	14.3	27.6	3.5	5.8	34.6	31.3	46.0	11.4	14.7
7.	343.63	BB	33.1	27.7	14.7	27.6	3.8	5.9	29.9	24.5	46.0	16.1	21.5
8.	664.51	BB	28.9	30.9	20.0	27.1	5.6	5.8	33.2	35.2	46.0	12.8	10.8

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22GE0028-YW

Applicant : Matsushita Electric Industrial Co., Ltd
 Kind of Equipment : Wireless LAN builtin PC
 Model No. : CF-28
 Serial No. : 6
 Power : AC120V/60Hz
 Mode : Receiving
 Remarks : External Antenna / FCC ID ACJ9TGCF-281
 Date : 2/18/2002
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 66 %
 Regulation : Fcc 15C § 15. 209 (a)

Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	99.84	BB	38.2	36.7	10.1	27.9	1.9	5.9	28.2	26.7	43.5	15.3	16.8	
2.	132.90	BB	35.4	35.6	13.8	27.8	2.2	5.9	29.5	29.7	43.5	14.0	13.8	
3.	200.44	BB	26.1	27.5	16.4	27.8	2.8	5.9	23.4	24.8	43.5	20.1	18.7	
4.	240.03	BB	26.0	30.0	16.6	27.7	3.1	5.9	23.9	27.9	46.0	22.1	18.1	
5.	308.00	BB	32.9	32.2	14.3	27.6	3.5	5.8	28.9	28.2	46.0	17.1	17.8	
6.	343.61	BB	33.8	25.6	14.7	27.6	3.8	5.9	30.6	22.4	46.0	15.4	23.6	
7.	664.54	BB	29.5	32.3	20.0	27.1	5.6	5.8	33.8	36.6	46.0	12.2	9.4	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-28(Whip Antenna)
S/N : 6
FCC ID : ACJ9TGCF-281
POWER : AC120V/60Hz
Mode : Transmitting (ch1: 2412MHz / 11Mbps)

REPORT NO : 22GE0028-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/2/18
Temperature : 20°C
Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	50.6	53.7	25.8	38.9	1.6	0.0	10.0	49.1	52.2	74.0	24.9	21.8
2	2.39000	46.7	50.5	31.3	38.0	2.8	0.0	10.1	52.9	56.7	74.0	21.1	17.3
3	4.82400	45.2	43.1	35.4	38.0	4.2	1.1	0.0	47.9	45.8	74.0	26.1	28.2
4	7.23600	41.0	41.9	39.1	38.2	5.7	0.5	0.0	48.1	49.0	74.0	25.9	25.0
5	9.64800	42.6	42.8	39.2	38.5	6.2	0.5	0.0	50.0	50.2	74.0	24.0	23.8
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.0600	42.7	42.1	43.5	38.5	7.5	0.5	0.0	46.2	45.6	74.0	27.8	28.4
7	14.4720	42.3	42.9	42.2	38.5	8.0	0.6	0.0	45.1	45.7	74.0	28.9	28.3
8	16.8840	44.5	44.9	43.8	38.5	8.1	0.6	0.0	49.0	49.4	74.0	25.0	24.6
9	19.2960	45.2	44.0	37.5	38.5	8.8	1.1	0.0	44.6	43.4	74.0	29.4	30.6
10	21.7080	44.6	44.1	38.2	38.5	10.0	0.5	0.0	45.3	44.8	74.0	28.7	29.2
11	24.1200	44.0	45.4	38.6	38.5	12.6	0.7	0.0	47.9	49.3	74.0	26.1	24.7

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	39.7	42.1	25.8	38.9	1.6	0.0	10.0	38.2	40.6	54.0	15.8	13.4
2	2.39000	36.9	39.7	31.3	38.0	2.8	0.0	10.1	43.1	45.9	54.0	10.9	8.1
3	4.82400	37.5	34.7	35.4	38.0	4.2	1.1	0.0	40.2	37.4	54.0	13.8	16.6
4	7.23600	32.3	32.1	39.1	38.2	5.7	0.5	0.0	39.4	39.2	54.0	14.6	14.8
5	9.64800	33.5	33.5	39.2	38.5	6.2	0.5	0.0	40.9	40.9	54.0	13.1	13.1
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.0600	32.8	33.9	43.5	38.5	7.5	0.5	0.0	36.3	37.4	54.0	17.7	16.6
7	14.4720	32.6	32.5	42.2	38.5	8.0	0.6	0.0	35.4	35.3	54.0	18.6	18.7
8	16.8840	34.1	34.0	43.8	38.5	8.1	0.6	0.0	38.6	38.5	54.0	15.4	15.5
9	19.2960	33.9	33.9	37.5	38.5	8.8	1.1	0.0	33.3	33.3	54.0	20.7	20.7
10	21.7080	34.5	34.5	38.2	38.5	10.0	0.5	0.0	35.2	35.2	54.0	18.8	18.8
11	24.1200	34.2	34.2	38.6	38.5	12.6	0.7	0.0	38.1	38.1	54.0	15.9	15.9

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

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

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-28(Whip Antenna)
S/N : 6
FCC ID : ACJ9TGCF-281
POWER : AC120V/60Hz
Mode : Transmitting (ch6: 2437MHz / 11Mbps)

REPORT NO : 22GE0028-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/2/18
Temperature : 20°C
Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	48.5	53.5	25.8	38.9	1.6	0.0	10.0	47.0	52.0	74.0	27.0	22.0
2	4.87400	43.6	47.6	35.6	37.9	4.2	1.1	0.0	46.6	50.6	74.0	27.4	23.5
3	7.31100	42.7	43.9	39.2	38.2	5.7	0.5	0.0	49.9	51.1	74.0	24.1	22.9
4	9.74800	42.8	42.6	39.2	38.5	6.2	0.5	0.0	50.2	50.0	74.0	23.8	24.0
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
5	12.1850	42.7	43.3	43.4	38.5	7.5	0.5	0.0	46.1	46.7	74.0	27.9	27.3
6	14.6220	43.0	42.8	42.6	38.5	8.0	0.5	0.0	46.1	45.9	74.0	27.9	28.1
7	17.0590	44.5	43.5	43.8	38.5	8.1	0.6	0.0	49.0	48.0	74.0	25.0	26.0
8	19.4960	43.1	42.5	37.4	38.5	9.3	1.3	0.0	43.1	42.5	74.0	30.9	31.5
9	21.9330	44.7	44.2	38.2	38.5	9.6	0.3	0.0	44.8	44.3	74.0	29.2	29.7
10	24.3700	45.2	45.4	38.8	38.5	12.5	0.8	0.0	49.3	49.5	74.0	24.7	24.5

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	37.5	42.84	25.8	38.9	1.6	0.0	10.0	36.0	41.3	54.0	18.0	12.7
2	4.87400	36.5	42.0	35.6	37.9	4.2	1.1	0.0	39.5	45.0	54.0	14.5	9.0
3	7.31100	32.4	32.2	39.2	38.2	5.7	0.5	0.0	39.6	39.4	54.0	14.4	14.6
4	9.74800	32.4	32.5	39.2	38.5	6.2	0.5	0.0	39.8	39.9	54.0	14.2	14.1
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
5	12.1850	33.4	33.2	43.4	38.5	7.5	0.5	0.0	36.8	36.6	54.0	17.2	17.4
6	14.6220	32.7	32.8	42.6	38.5	8.0	0.5	0.0	35.8	35.9	54.0	18.2	18.2
7	17.0590	33.5	33.6	43.8	38.5	8.1	0.6	0.0	38.0	38.1	54.0	16.0	15.9
8	19.4960	34.7	33.7	37.4	38.5	9.3	1.3	0.0	34.7	33.7	54.0	19.3	20.3
9	21.9330	34.7	34.7	38.2	38.5	9.6	0.3	0.0	34.8	34.8	54.0	19.2	19.2
10	24.3700	35.1	35.1	38.8	38.5	12.5	0.8	0.0	39.2	39.2	54.0	14.8	14.8

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

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

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-28(Whip Antenna)
S/N : 6
FCC ID : ACJ9TGCF-281
POWER : AC120V/60Hz
Mode : Transmitting (ch11: 2462MHz / 11Mbps)

REPORT NO : 22GE0028-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/2/18
Temperature : 20°C
Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	50.3	53.7	25.8	38.9	1.8	0.0	10.0	49.0	52.4	74.0	25.0	21.6
2	2.48350	48.0	54.4	31.6	38.0	2.9	0.0	6.0	50.5	56.9	74.0	23.5	17.1
3	4.92400	43.7	43.8	35.8	37.9	4.3	1.1	0.0	47.0	47.1	74.0	27.0	26.9
4	7.38600	43.3	42.1	39.2	38.3	5.8	0.5	0.0	50.5	49.3	74.0	23.5	24.7
5	9.84800	43.7	43.2	39.2	38.5	6.2	0.5	0.0	51.1	50.6	74.0	22.9	23.4
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.3100	43.2	43.5	43.3	38.5	7.4	0.5	0.0	46.4	46.7	74.0	27.6	27.3
7	14.7720	42.5	42.4	42.9	38.5	8.1	0.5	0.0	46.0	45.9	74.0	28.0	28.1
8	17.2340	44.0	42.5	43.9	38.5	8.2	0.6	0.0	48.7	47.2	74.0	25.3	26.8
9	19.6960	44.4	45.2	37.5	38.5	9.9	1.5	0.0	45.3	46.1	74.0	28.7	27.9
10	22.1580	42.9	44.5	38.2	38.5	9.6	0.3	0.0	43.0	44.6	74.0	31.0	29.4
11	24.6200	46.0	46.1	38.8	38.5	12.5	0.9	0.0	50.2	50.3	74.0	23.8	23.7

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	38.8	42.6	25.8	38.9	1.8	0.0	10.0	37.5	41.3	54.0	16.5	12.7
2	2.48350	38.2	44.5	31.6	38.0	2.9	0.0	6.0	40.7	47.0	54.0	13.3	7.0
3	4.92400	33.9	35.2	35.8	37.9	4.3	1.1	0.0	37.2	38.5	54.0	16.8	15.5
4	7.38600	32.4	32.1	39.2	38.3	5.8	0.5	0.0	39.6	39.3	54.0	14.4	14.7
5	9.84800	33.0	32.6	39.2	38.5	6.2	0.5	0.0	40.4	40.0	54.0	13.6	14.0
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.3100	33.4	33.4	43.3	38.5	7.4	0.5	0.0	36.6	36.6	54.0	17.4	17.4
7	14.7720	32.9	32.8	42.9	38.5	8.1	0.5	0.0	36.4	36.3	54.0	17.6	17.7
8	17.2340	33.7	33.7	43.9	38.5	8.2	0.6	0.0	38.4	38.4	54.0	15.6	15.6
9	19.6960	34.8	34.9	37.5	38.5	9.9	1.5	0.0	35.7	35.8	54.0	18.3	18.2
10	22.1580	33.7	33.7	38.2	38.5	9.6	0.3	0.0	33.8	33.8	54.0	20.2	20.2
11	24.6200	34.8	35.6	38.8	38.5	12.5	0.9	0.0	39.0	39.8	54.0	15.0	14.2

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

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

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-28(Whip Antenna)
S/N : 6
FCC ID : ACJ9TGCF-281
POWER : AC120V/60Hz
Mode : Receiving

REPORT NO : 22GE0028-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 3m
DATE : 2002/2/18
Temperature : 20°C
Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	50.0	53.7	25.8	38.9	1.8	0.0	10.0	48.7	52.4	74.0	25.3	21.6
2	2.41200	44.6	44.5	31.4	38.0	2.8	0.0	0.0	40.8	40.7	74.0	33.2	33.3
3	4.82400	41.1	41.6	35.4	38.0	4.2	0.0	0.0	42.7	43.2	74.0	31.3	30.8
4	7.23600	42.4	41.7	39.1	38.2	5.7	0.0	0.0	49.0	48.3	74.0	25.0	25.7
5	9.64800	43.9	42.9	39.2	38.5	6.2	0.0	0.0	50.8	49.8	74.0	23.2	24.2

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	38.9	42.5	25.8	38.9	1.8	0.0	10.0	37.6	41.2	54.0	16.4	12.8
2	2.41200	34.0	34.0	31.4	38.0	2.8	0.0	0.0	30.2	30.2	54.0	23.8	23.8
3	4.82400	31.5	31.4	35.4	38.0	4.2	0.0	0.0	33.1	33.0	54.0	20.9	21.0
4	7.23600	32.3	32.1	39.1	38.2	5.7	0.0	0.0	38.9	38.7	54.0	15.1	15.3
5	9.64800	33.1	33.4	39.2	38.5	6.2	0.0	0.0	40.0	40.3	54.0	14.0	13.7

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

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.

YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
 EQUIPMENT : Wireless LAN builtin PC
 MODEL : CF-28(External Antenna)
 S/N : 6
 FCC ID : ACJ9TGCF-281
 POWER : AC120V/60Hz
 Mode : Transmitting (ch1: 2412MHz / 11Mbps)

REPORT NO : 22GE0028-YW
 REGULATION : Fcc Part15SubpartC 247(b)(1)
 TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
 DATE : 2002/2/18
 Temperature : 20°C
 Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER						HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	50.6	55.1	25.8	38.9	1.6	0.0	10.0	49.1	53.6	74.0	24.9	20.4
2	2.39000	44.8	49.7	31.3	38.0	2.8	0.0	6.0	46.9	51.8	74.0	27.1	22.2
3	4.82400	48.7	51.7	35.4	38.0	4.2	1.1	0.0	51.4	54.4	74.0	22.6	19.6
4	7.23600	43.7	42.9	39.1	38.2	5.7	0.5	0.0	50.8	50.0	74.0	23.2	24.0
5	9.64800	44.4	44.2	39.2	38.5	6.2	0.5	0.0	51.8	51.6	74.0	22.2	22.4
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.0600	42.7	43.6	43.5	38.5	7.5	0.5	0.0	46.2	47.1	74.0	27.8	26.9
7	14.4720	43.6	41.8	42.2	38.5	8.0	0.6	0.0	46.4	44.6	74.0	27.7	29.4
8	16.8840	45.1	45.1	43.8	38.5	8.1	0.6	0.0	49.6	49.6	74.0	24.4	24.4
9	19.2960	43.6	43.9	37.5	38.5	8.8	1.1	0.0	43.0	43.3	74.0	31.0	30.7
10	21.7080	44.7	43.8	38.2	38.5	10.0	0.5	0.0	45.4	44.5	74.0	28.6	29.5
11	24.1200	44.1	45.0	38.6	38.5	12.6	0.7	0.0	48.0	48.9	74.0	26.0	25.1

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER						HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	39.2	42.9	25.8	38.9	1.6	0.0	10.0	37.7	41.4	54.0	16.3	12.6
2	2.39000	35.5	37.6	31.3	38.0	2.8	0.0	10.1	41.7	43.8	54.0	12.3	10.2
3	4.82400	44.7	48.2	35.4	38.0	4.2	1.1	0.0	47.4	50.9	54.0	6.6	3.1
4	7.23600	32.3	32.4	39.1	38.2	5.7	0.5	0.0	39.4	39.5	54.0	14.6	14.5
5	9.64800	33.1	33.2	39.2	38.5	6.2	0.5	0.0	40.5	40.6	54.0	13.5	13.4
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.0600	32.7	32.7	43.5	38.5	7.5	0.5	0.0	36.2	36.2	54.0	17.8	17.8
7	14.4720	32.8	32.7	42.2	38.5	8.0	0.6	0.0	35.6	35.5	54.0	18.4	18.5
8	16.8840	34.1	34.2	43.8	38.5	8.1	0.6	0.0	38.6	38.7	54.0	15.4	15.3
9	19.2960	34.0	34.2	37.5	38.5	8.8	1.1	0.0	33.4	33.6	54.0	20.6	20.4
10	21.7080	34.5	34.9	38.2	38.5	10.0	0.5	0.0	35.2	35.6	54.0	18.8	18.4
11	24.1200	34.2	34.6	38.6	38.5	12.6	0.7	0.0	38.1	38.5	54.0	15.9	15.5

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

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

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-28(External Antenna)
S/N : 6
FCC ID : ACJ9TGCF-281
POWER : AC120V/60Hz
Mode : Transmitting (ch6: 2437MHz / 11Mbps)

REPORT NO : 22GE0028-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/2/18
Temperature : 20°C
Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER						HOR	VER			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	50.8	55.2	25.8	38.9	1.6	0.0	10.0	49.3	53.7	74.0	24.7	20.3
2	4.87400	48.0	51.4	35.6	37.9	4.2	1.1	0.0	51.0	54.4	74.0	23.0	19.6
3	7.31100	43.1	43.8	39.2	38.2	5.7	0.5	0.0	50.3	51.0	74.0	23.7	23.0
4	9.74800	43.6	44.0	39.2	38.5	6.2	0.5	0.0	51.0	51.4	74.0	23.0	22.6
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
5	12.1850	43.8	43.3	43.4	38.5	7.5	0.5	0.0	47.2	46.7	74.0	26.8	27.3
6	14.6220	42.6	42.6	42.6	38.5	8.0	0.5	0.0	45.7	45.7	74.0	28.3	28.3
7	17.0590	44.8	43.2	43.8	38.5	8.1	0.6	0.0	49.3	47.7	74.0	24.7	26.3
8	19.4960	43.9	43.4	37.4	38.5	9.3	1.3	0.0	43.9	43.4	74.0	30.1	30.6
9	21.9330	44.6	43.9	38.2	38.5	9.6	0.3	0.0	44.7	44.0	74.0	29.3	30.0
10	24.3700	45.7	45.7	38.8	38.5	12.5	0.8	0.0	49.8	49.8	74.0	24.2	24.2

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER						HOR	VER			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	39.3	43.3	25.8	38.9	1.6	0.0	10.0	37.8	41.8	54.0	16.2	12.2
2	4.87400	42.3	47.6	35.6	37.9	4.2	1.1	0.0	45.3	50.6	54.0	8.7	3.4
3	7.31100	32.4	32.5	39.2	38.2	5.7	0.5	0.0	39.6	39.7	54.0	14.4	14.3
4	9.74800	32.8	32.9	39.2	38.5	6.2	0.5	0.0	40.2	40.3	54.0	13.8	13.7
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
5	12.1850	33.3	33.3	43.4	38.5	7.5	0.5	0.0	36.7	36.7	54.0	17.3	17.3
6	14.6220	32.8	32.7	42.6	38.5	8.0	0.5	0.0	35.9	35.8	54.0	18.1	18.2
7	17.0590	33.5	33.5	43.8	38.5	8.1	0.6	0.0	38.0	38.0	54.0	16.0	16.0
8	19.4960	33.7	33.8	37.4	38.5	9.3	1.3	0.0	33.7	33.8	54.0	20.3	20.2
9	21.9330	34.8	34.8	38.2	38.5	9.6	0.3	0.0	34.9	34.9	54.0	19.2	19.1
10	24.3700	35.6	35.4	38.8	38.5	12.5	0.8	0.0	39.7	39.5	54.0	14.3	14.5

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

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

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-28(External Antenna)
S/N : 6
FCC ID : ACJ9TGCF-281
POWER : AC120V/60Hz
Mode : Transmitting (ch11: 2462MHz / 11Mbps)

REPORT NO : 22GE0028-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/2/18
Temperature : 20°C
Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	50.9	54.8	25.8	38.9	1.8	0.0	10.0	49.6	53.5	74.0	24.4	20.6
2	2.48350	50.3	52.9	31.6	38.0	2.9	0.0	6.0	52.8	55.4	74.0	21.3	18.6
3	4.92400	45.2	49.5	35.8	37.9	4.3	1.1	0.0	48.5	52.8	74.0	25.5	21.2
4	7.38600	42.8	42.4	39.2	38.3	5.8	0.5	0.0	50.0	49.6	74.0	24.0	24.4
5	9.84800	44.1	43.8	39.2	38.5	6.2	0.5	0.0	51.5	51.2	74.0	22.5	22.9
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.3100	43.8	44.8	43.3	38.5	7.4	0.5	0.0	47.0	48.0	74.0	27.0	26.0
7	14.7720	42.4	41.6	42.9	38.5	8.1	0.5	0.0	45.9	45.1	74.0	28.1	28.9
8	17.2340	44.2	44.3	43.9	38.5	8.2	0.6	0.0	48.9	49.0	74.0	25.1	25.0
9	19.6960	45.1	46.3	37.5	38.5	9.9	1.5	0.0	46.0	47.2	74.0	28.0	26.8
10	22.1580	44.2	43.9	38.2	38.5	9.6	0.3	0.0	44.3	44.0	74.0	29.7	30.0
11	24.6200	46.1	46.1	38.8	38.5	12.5	0.9	0.0	50.3	50.3	74.0	23.7	23.7

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]						HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	39.2	43.2	25.8	38.9	1.8	0.0	10.0	37.9	41.9	54.0	16.1	12.1
2	2.48350	39.8	43.4	31.6	38.0	2.9	0.0	6.0	42.3	45.9	54.0	11.7	8.1
3	4.92400	39.8	44.7	35.8	37.9	4.3	1.1	0.0	43.1	48.0	54.0	10.9	6.0
4	7.38600	32.5	32.4	39.2	38.3	5.8	0.5	0.0	39.7	39.6	54.0	14.3	14.4
5	9.84800	33.1	33.1	39.2	38.5	6.2	0.5	0.0	40.5	40.5	54.0	13.5	13.5
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
6	12.3100	33.4	33.4	43.3	38.5	7.4	0.5	0.0	36.6	36.6	54.0	17.4	17.4
7	14.7720	32.7	32.9	42.9	38.5	8.1	0.5	0.0	36.2	36.4	54.0	17.8	17.6
8	17.2340	33.8	33.8	43.9	38.5	8.2	0.6	0.0	38.5	38.5	54.0	15.5	15.5
9	19.6960	35.0	35.0	37.5	38.5	9.9	1.5	0.0	35.9	35.9	54.0	18.1	18.1
10	22.1580	33.8	33.8	38.2	38.5	9.6	0.3	0.0	33.9	33.9	54.0	20.1	20.1
11	24.6200	35.5	35.6	38.8	38.5	12.5	0.9	0.0	39.7	39.8	54.0	14.3	14.2

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

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

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-28(External Antenna)
S/N : 6
FCC ID : ACJ9TGCF-281
POWER : AC120V/60Hz
Mode : Receiving

REPORT NO : 22GE0028-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 3m
DATE : 2002/2/18
Temperature : 20°C
Humidity : 66%

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

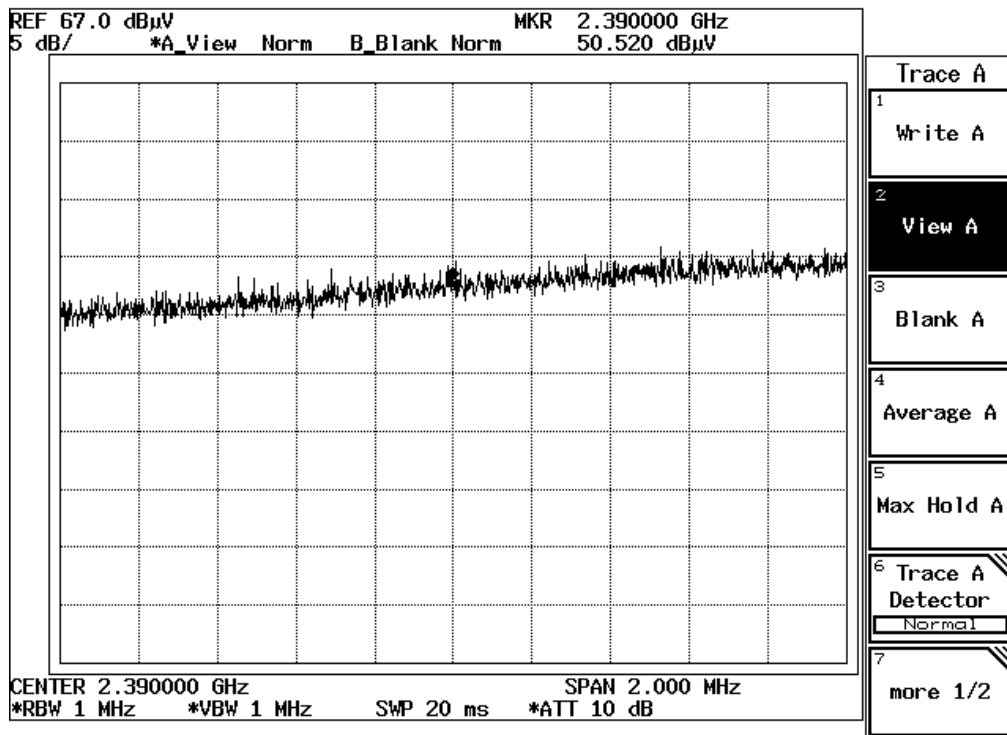
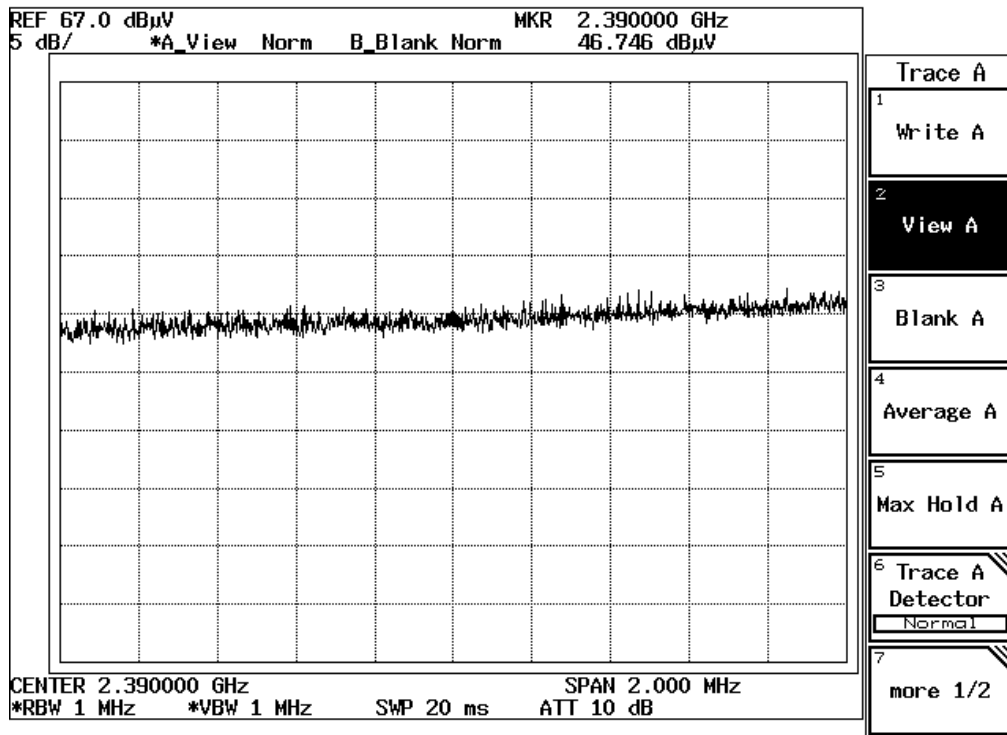
No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER						HOR	VER			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	51.0	54.9	25.8	38.9	1.8	0.0	10.0	49.7	53.6	74.0	24.3	20.4
2	2.41200	45.5	43.5	31.4	38.0	2.8	0.0	0.0	41.7	39.7	74.0	32.3	34.3
3	4.82400	42.2	41.9	35.4	38.0	4.2	0.0	0.0	43.8	43.5	74.0	30.2	30.5
4	7.23600	40.6	41.7	39.1	38.2	5.7	0.0	0.0	47.2	48.3	74.0	26.8	25.7
5	9.64800	42.5	43.8	39.2	38.5	6.2	0.0	0.0	49.4	50.7	74.0	24.6	23.3

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER						HOR	VER			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.19600	39.1	43.3	25.8	38.9	1.8	0.0	10.0	37.8	42.0	54.0	16.2	12.0
2	2.41200	34.5	34.3	31.4	38.0	2.8	0.0	0.0	30.7	30.5	54.0	23.3	23.5
3	4.82400	32.5	32.5	35.4	38.0	4.2	0.0	0.0	34.1	34.1	54.0	19.9	19.9
4	7.23600	32.3	32.2	39.1	38.2	5.7	0.0	0.0	38.9	38.8	54.0	15.1	15.2
5	9.64800	32.9	32.7	39.2	38.5	6.2	0.0	0.0	39.8	39.6	54.0	14.2	14.4

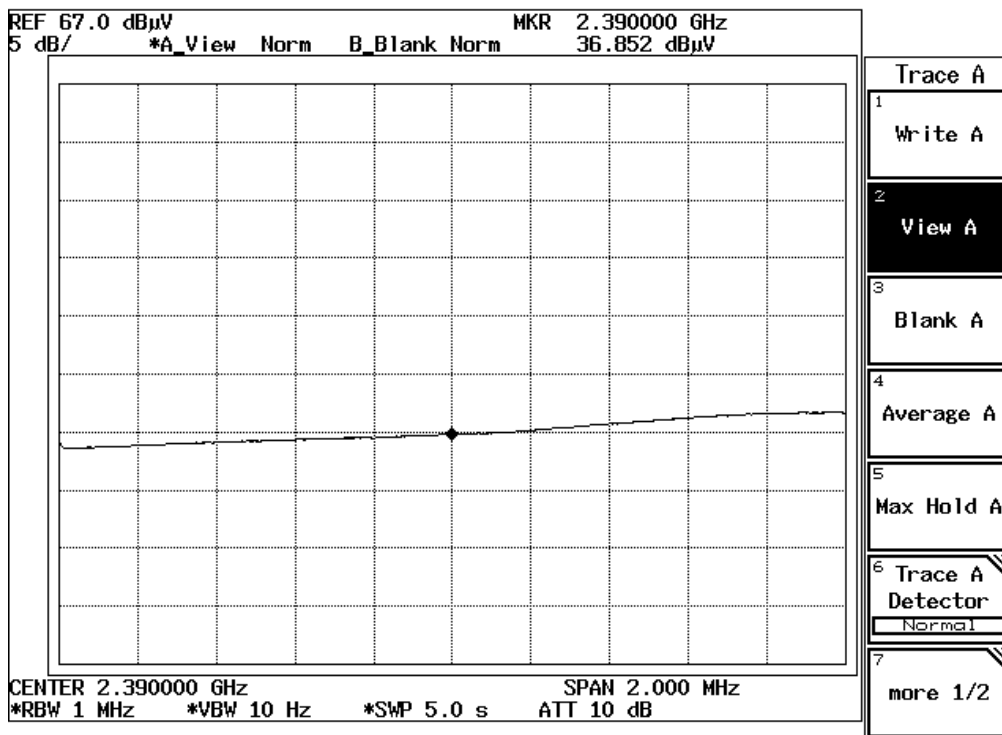
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

Whip Antenna 2.39GHz(Ch1)
PK Detector
Horizontal

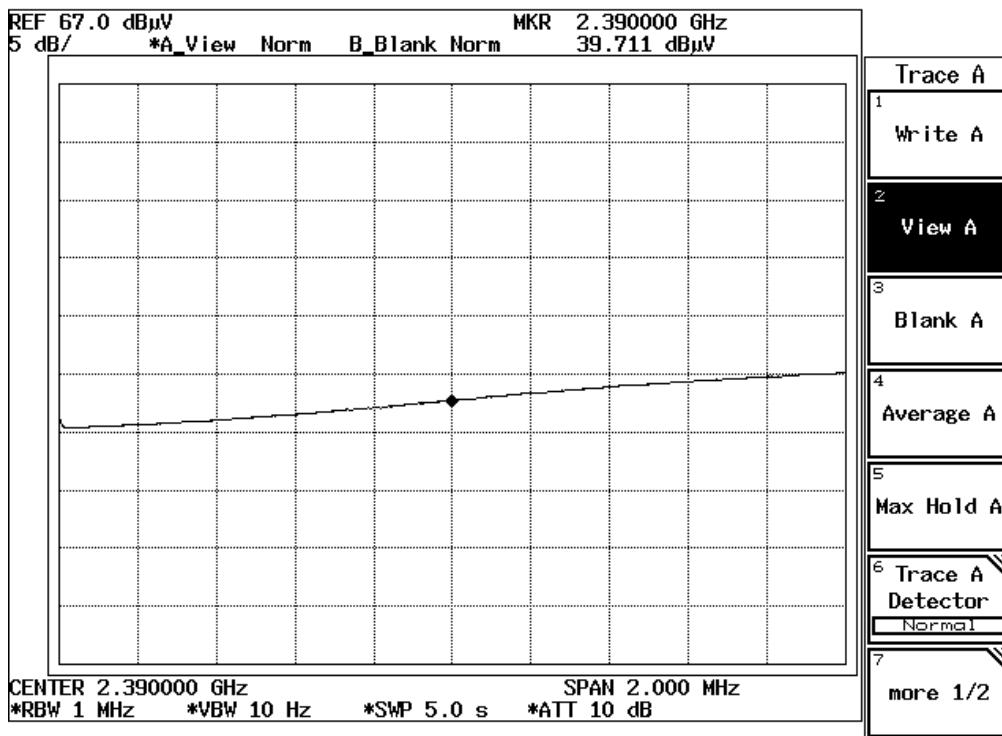


Vertical

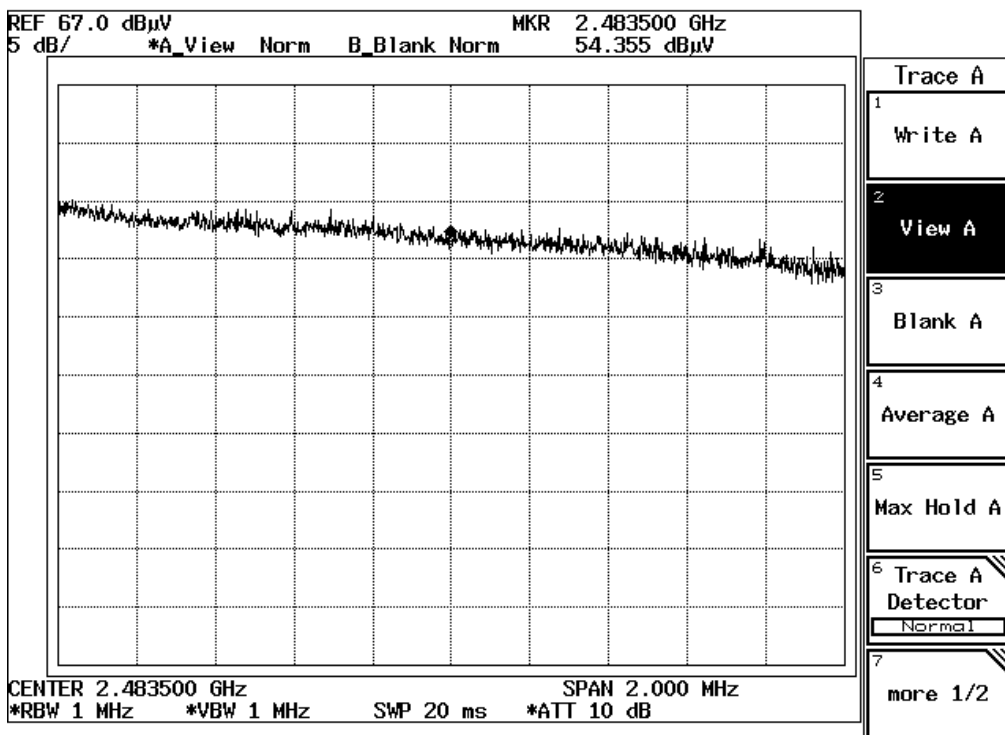
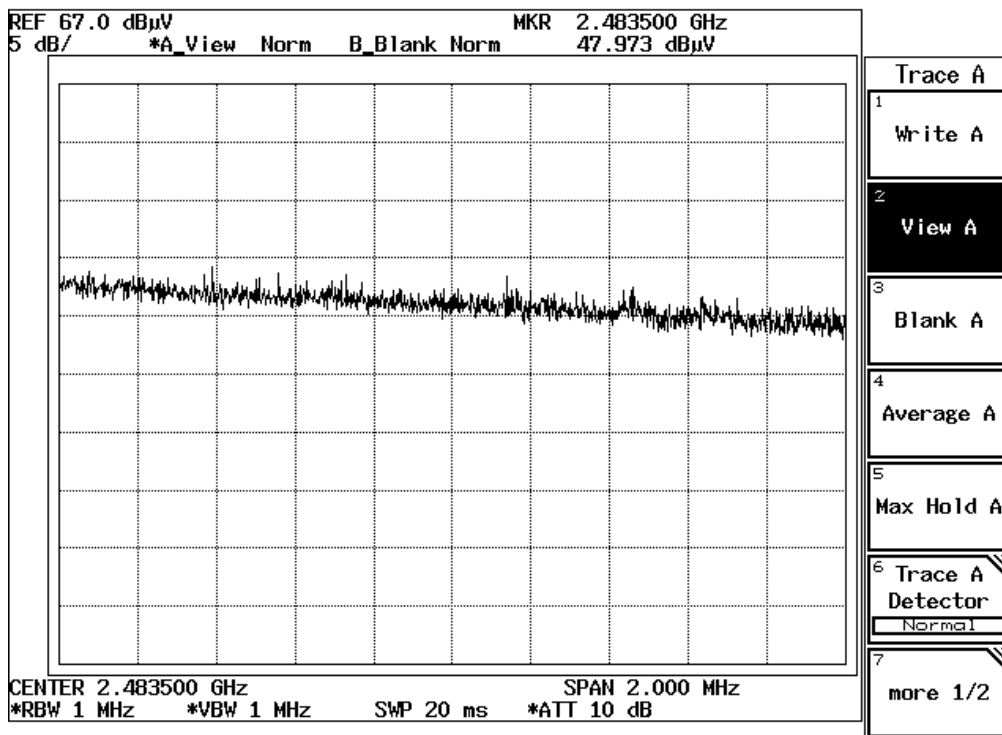
Whip Antenna 2.39GHz(Ch1)
AV Detector
Horizontal



Vertical

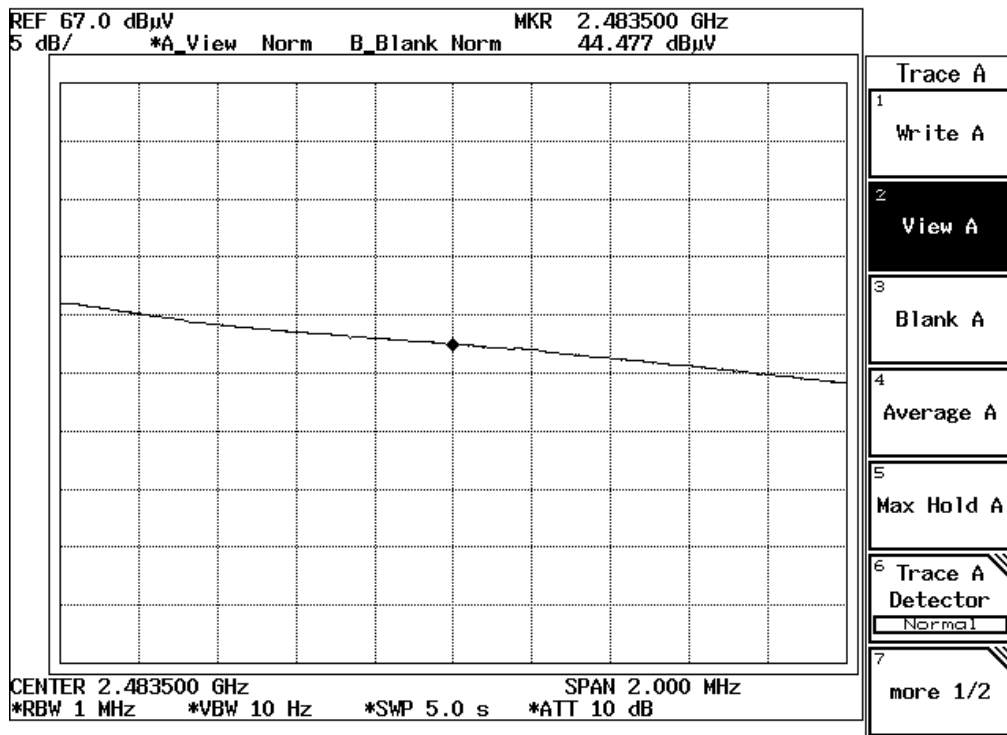
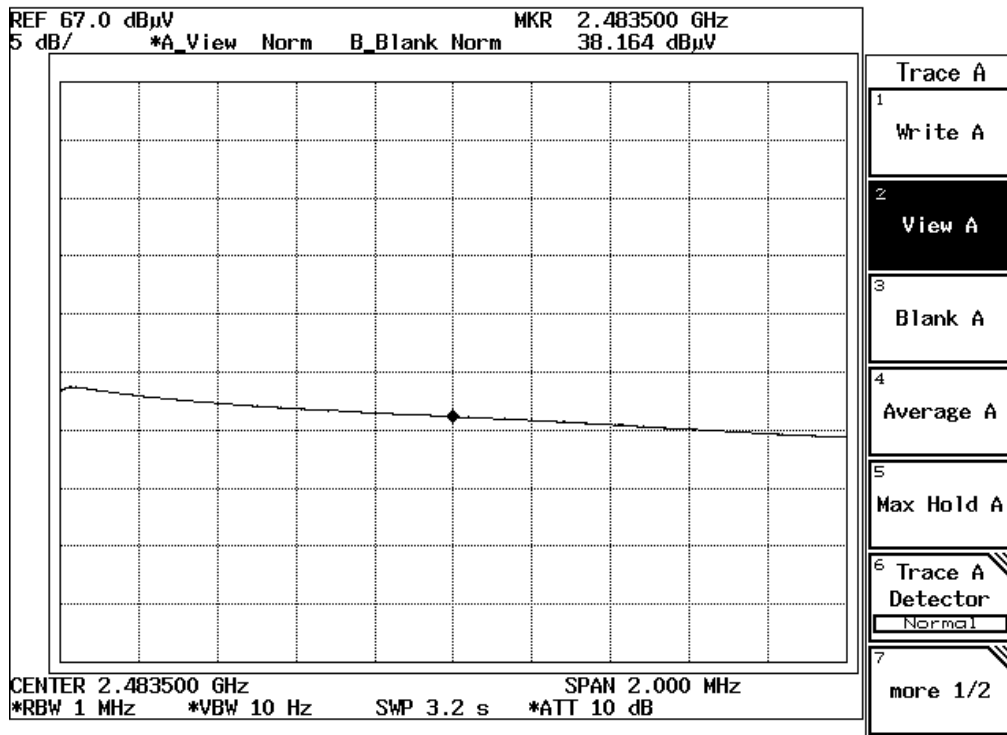


Whip Antenna 2.4835GHz(Ch11)
PK Detector
Horizontal



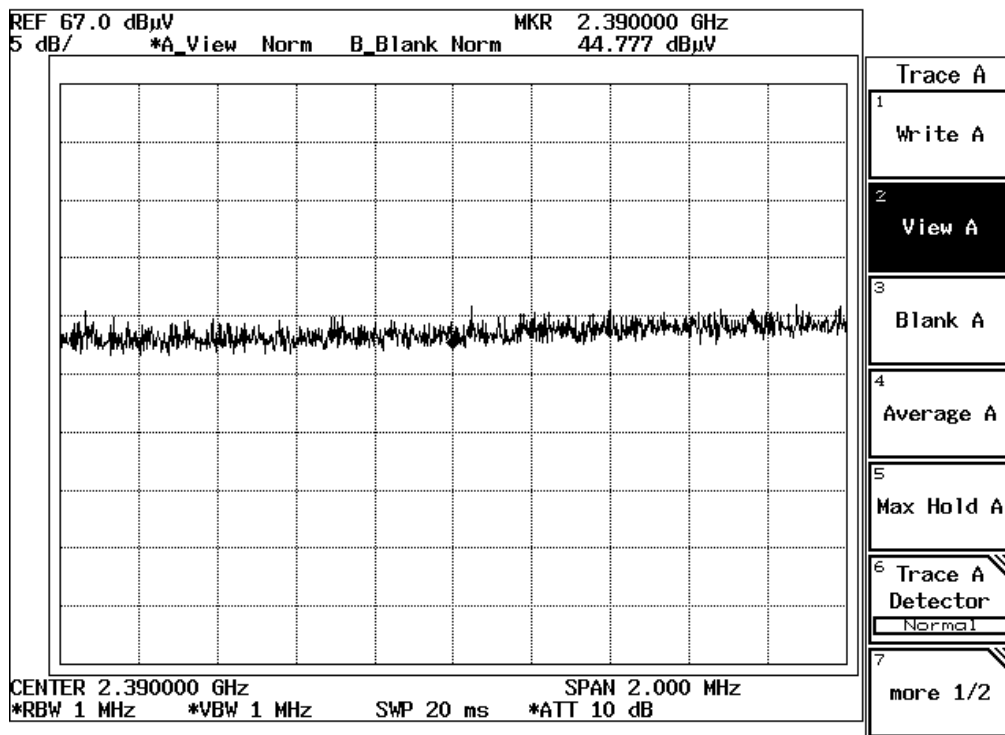
Vertical

Whip Antenna 2.4835GHz(Ch11)
AV Detector
Horizontal



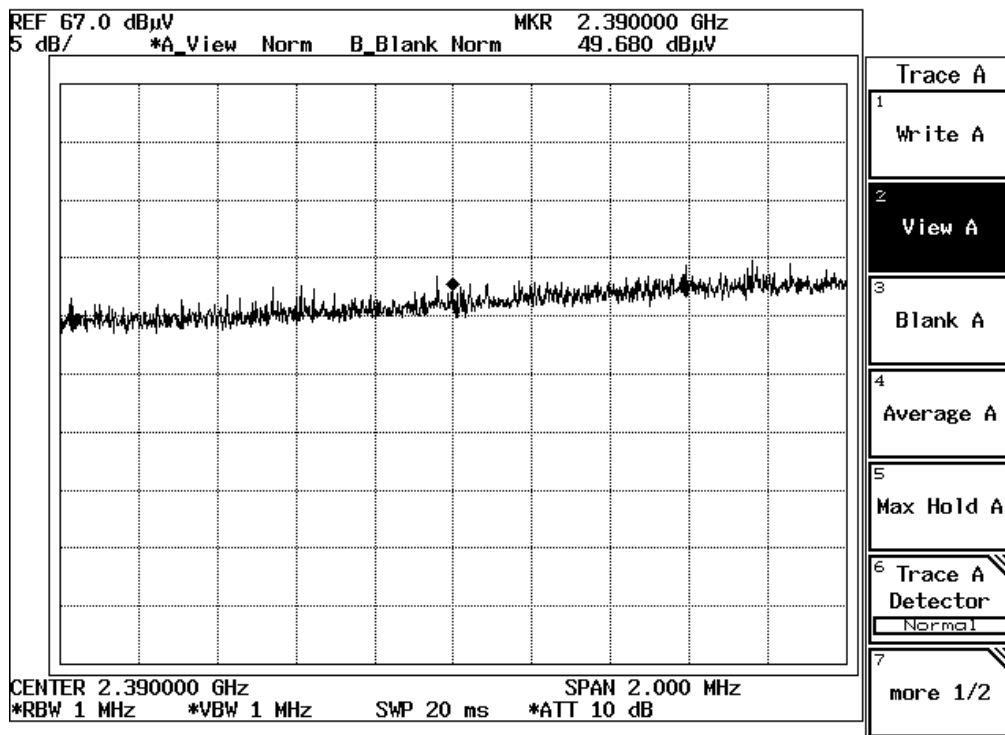
Vertical

External Antenna 2.39GHz(Ch1)
PK Detector

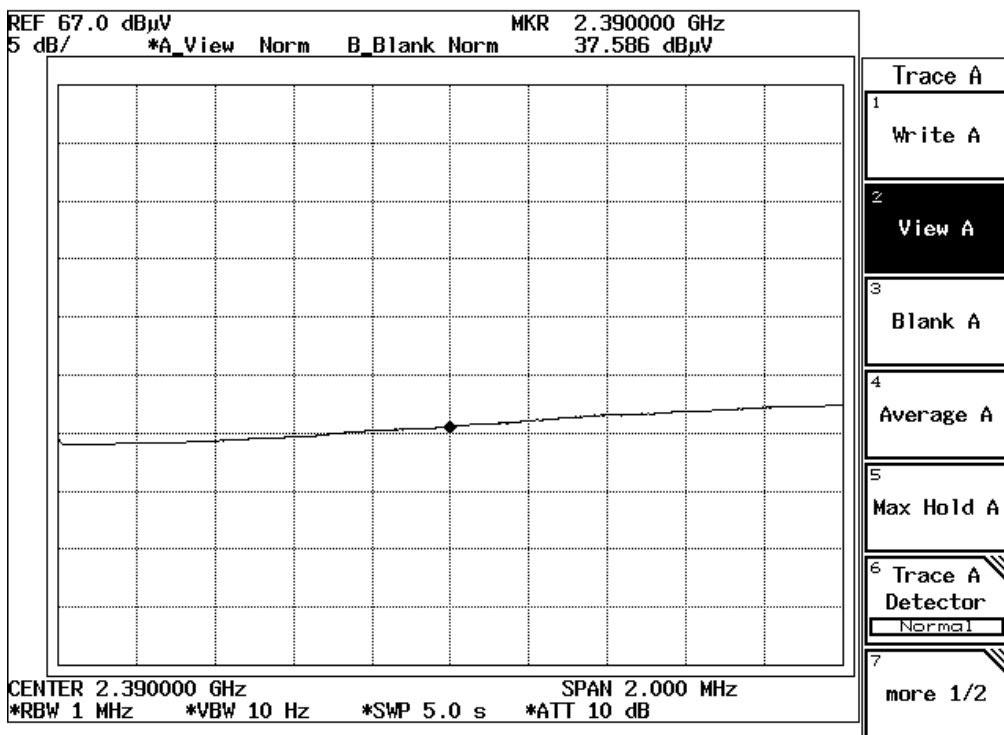
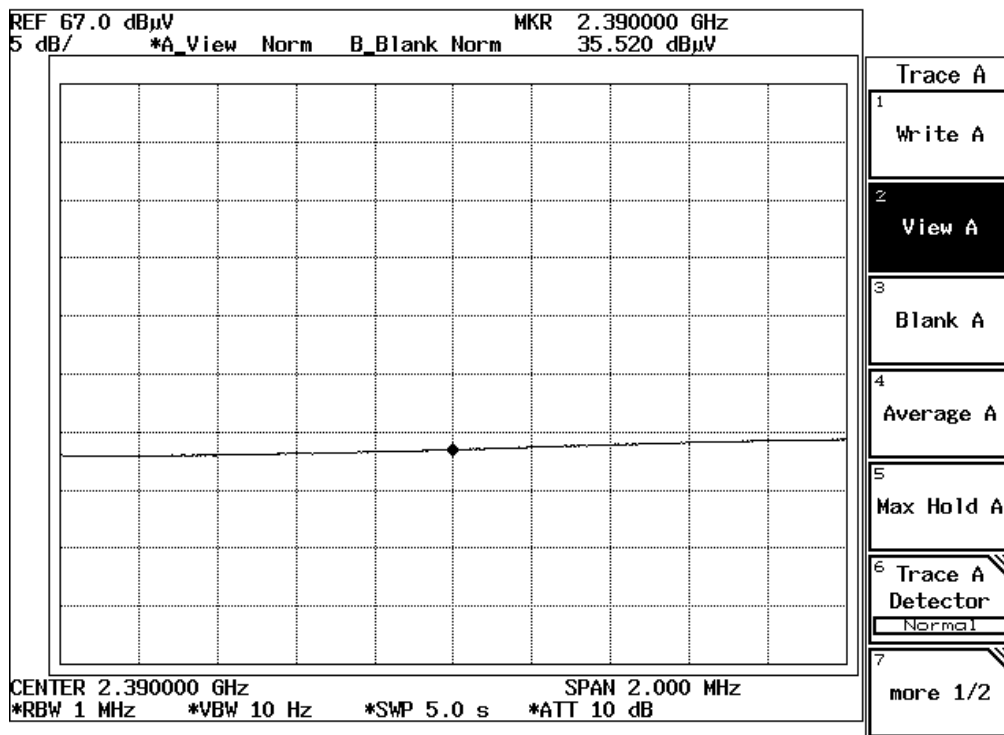


Horizontal

Vertical



External Antenna 2.39GHz(Ch1)
AV Detector
Horizontal

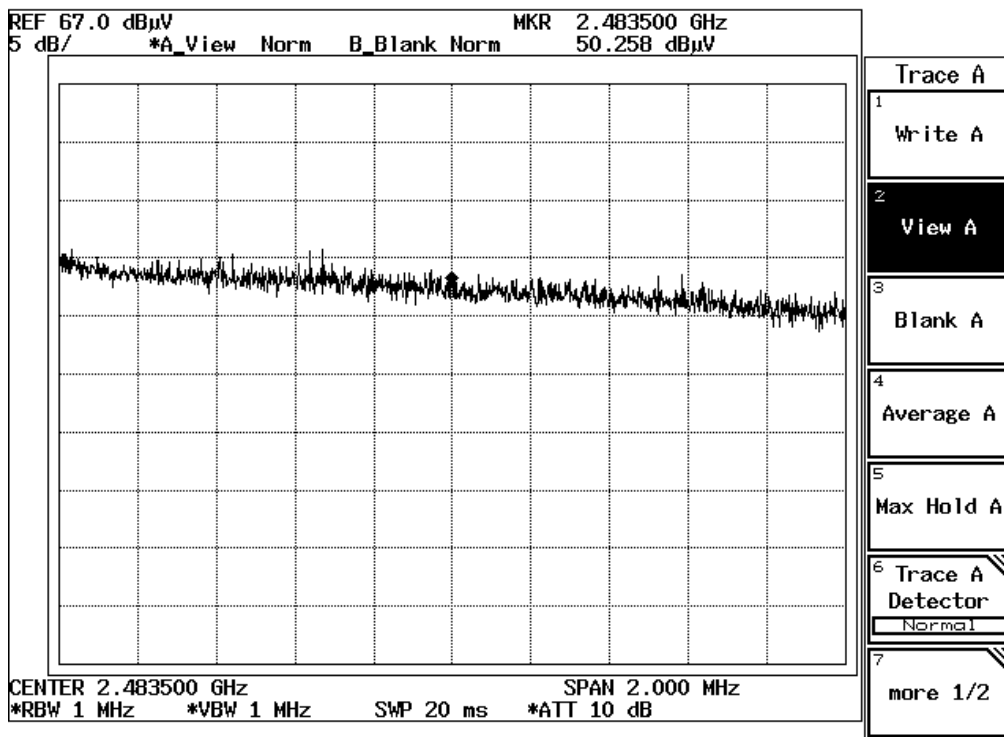


Vertical

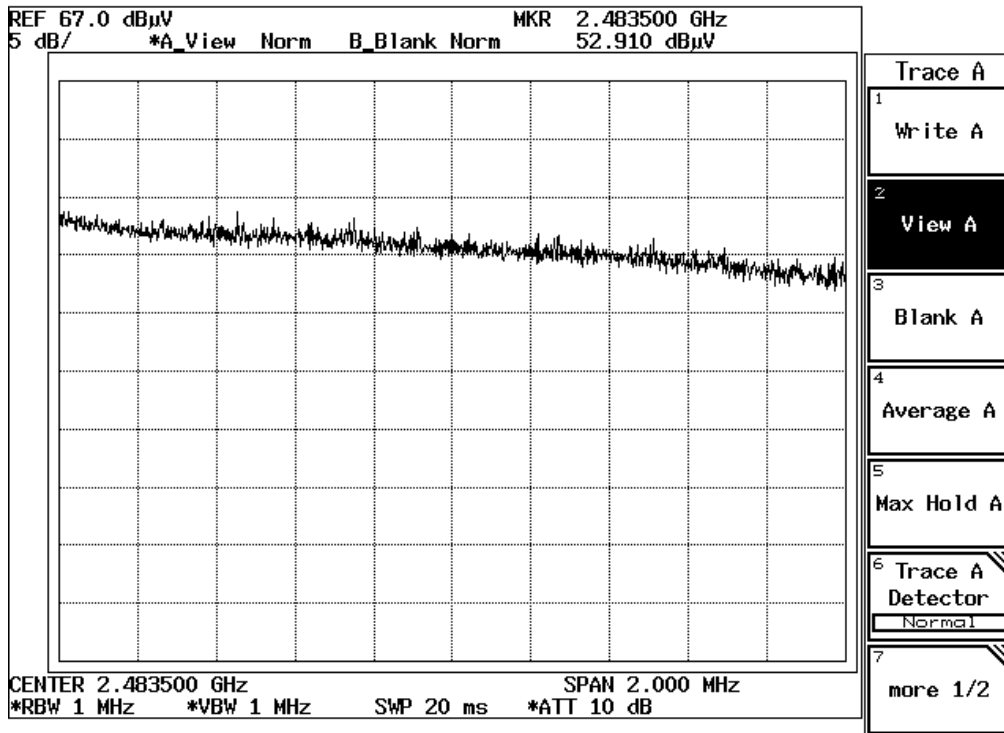
External Antenna 2.4835GHz(Ch11)

PK Detector

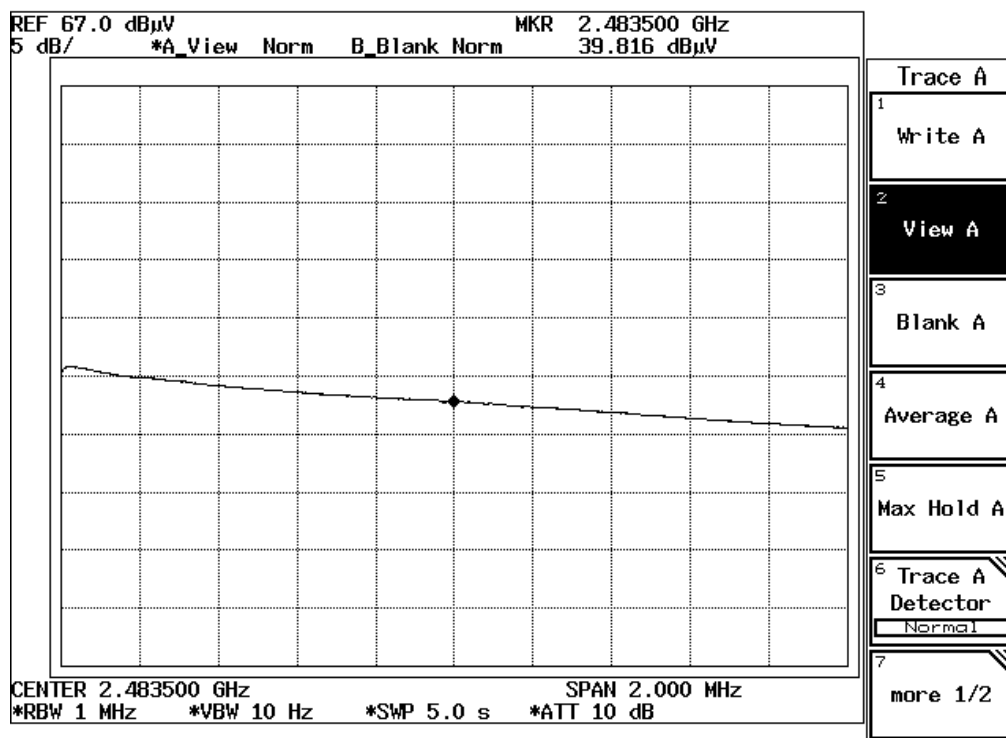
Horizontal



Vertical



External Antenna 2.4835GHz(Ch11)
AV Detector



Horizontal

Vertical

