

Date: June 5, 2000
Tested by: Hung Trinh

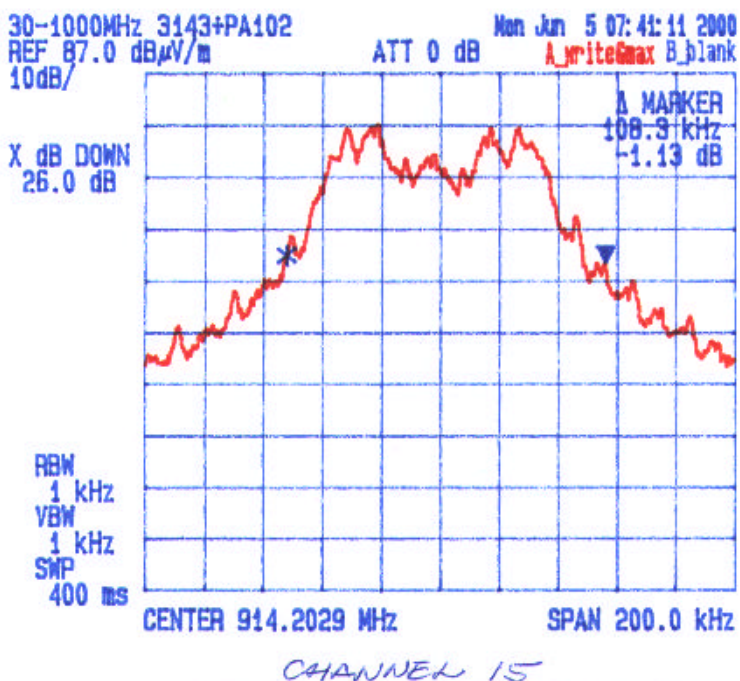
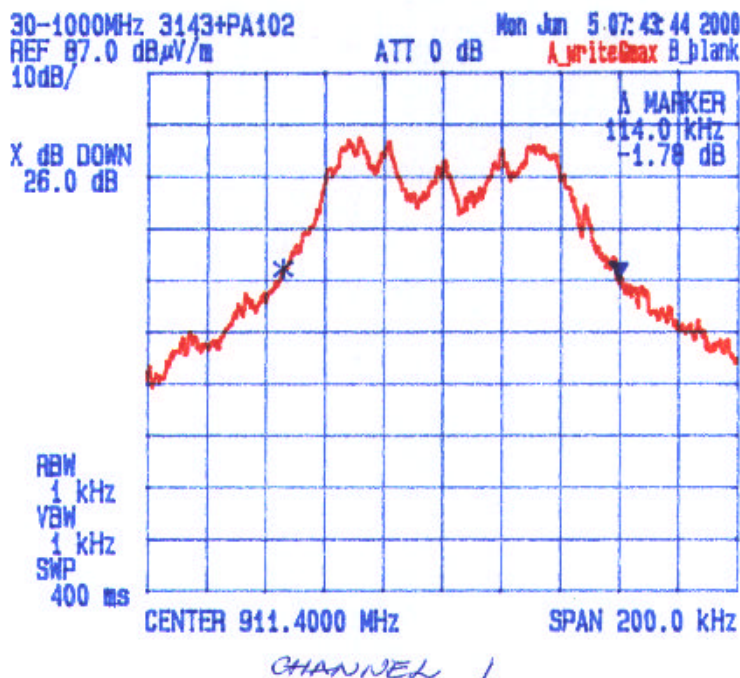
IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 - 928 MHz)

Channel: _____, Tx frequency: _____ MHz, Band: 3

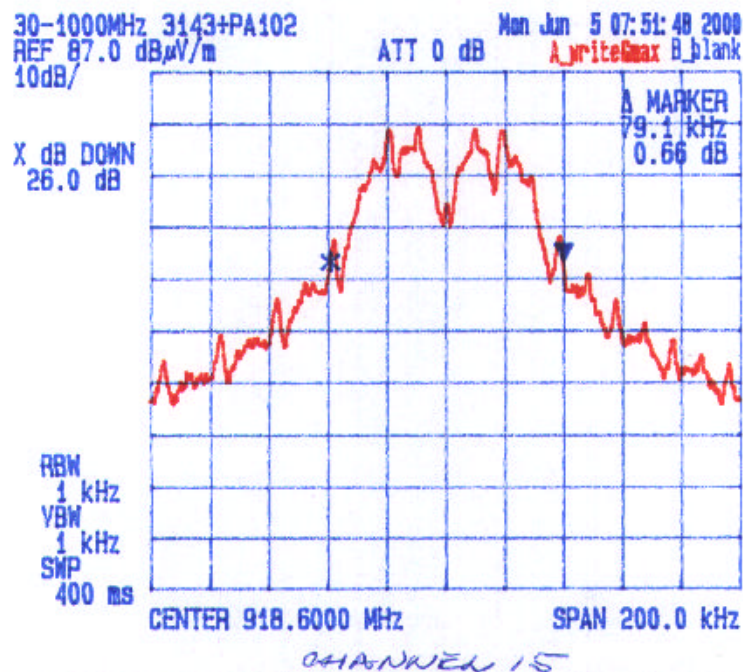
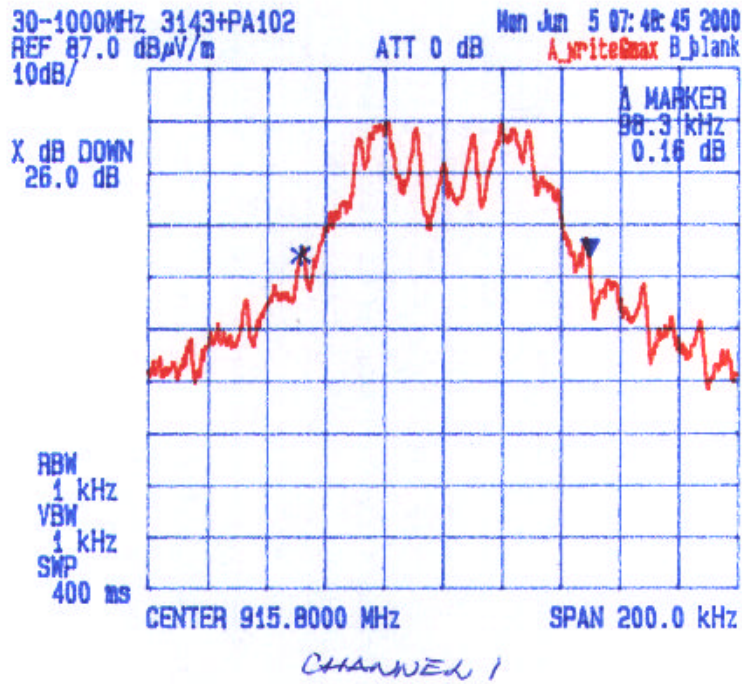
26 dB Bandwidth

BASE UNIT



Date: June 5, 2000
 Tested by: Hung Trinh

IVI CHECKMATE INC.
 Elite 770 Short Range Point of Sales Terminal, (902 - 928 MHz)
 Channel: _____, Tx frequency: _____ MHz, Band: H
 26 dB Bandwidth
PAGE UNIT





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Engineering Labs Inc.

POWER-LINE CONDUCTED EMISSIONS MEASUREMENTS

APPLICANT: EVE CHECKMATE
PRODUCT: EMTE 770
MODEL: BASE

EMI Detector: ☒ Peak ☒ Quasi Peak ☐ Average Temp.: 22 °C, Humidity: 43 %
Line Tested: 1, Input Voltage: 120VAC Tested by: HT Test Date: 31 MAY 00
Comments: FCC 15 B

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	QP Δ 1
1	0.479150	38.3	29.9	13.9	-18.1

STOP
30.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 480 kHz
24.98 dBμV

LOG REF 80.0 dBμV

10
dB/

ATN
10 dB

MA SB
SC FC
ACORR

START 450 kHz

IF BW 9.0 kHz

AVG BW 30 kHz

STOP 30.00 MHz

SWP 1.33 sec



UltraTech
Engineering Labs Inc.

POWER-LINE CONDUCTED EMISSIONS MEASUREMENTS

APPLICANT: IVZ CHECKMATE
PRODUCT: ELITE 770
MODEL: BASE

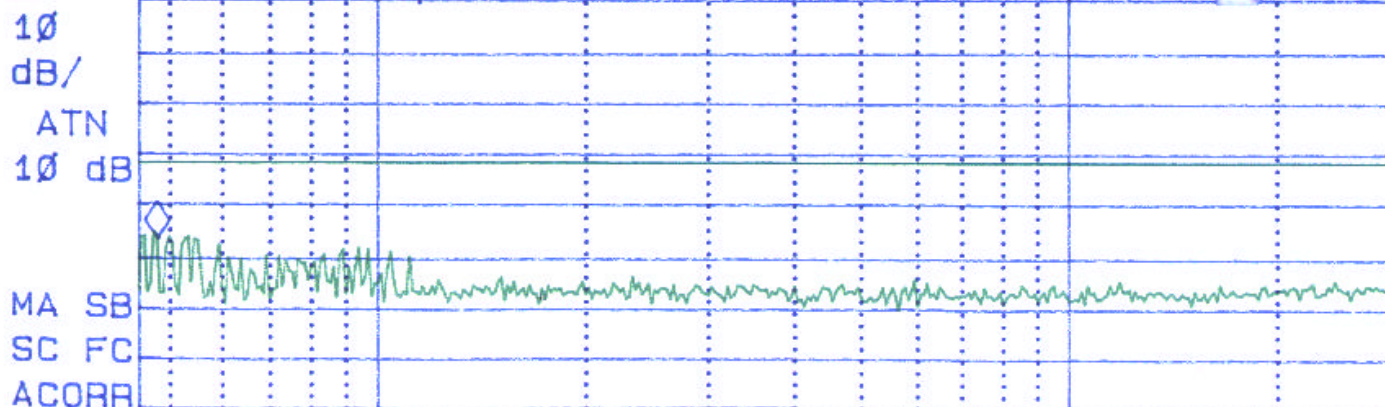
EMI Detector: ☒ Peak ☐ Quasi Peak ☐ Average Temp.: 22 °C, Humidity: 43 %
Line Tested: R, Input Voltage: 120VAC Tested by: HT Test Date: 5/14/00
Comments: FCC 15 B

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	QP Δ 1
1	0.479150	35.5	28.4	14.2	-19.6

STOP
30.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 480 kHz
33.33 dBμV

LOG REF 80.0 dBμV



START 450 kHz

IF BW 9.0 kHz

AVG BW 30 kHz

STOP 30.00 MHz

SWP 1.33 sec



UltraTech
Engineering Labs Inc.

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 – 928 MHz)

Channel: 1, Tx frequency: 911.4 MHz, Band: 3

Date: June 5 2000

Tested by: Hung Trinh



18:19:31 JUN 05 2000

BASE UNIT

ULTRATECH LABS 311 OPTS 3142 #1947

Radiated Emissions Measurements @ 3 Meters

SPAN
40.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 911.60 MHz
91.00 dB μ V/m

Last Hrd
Key Menu

SPAN

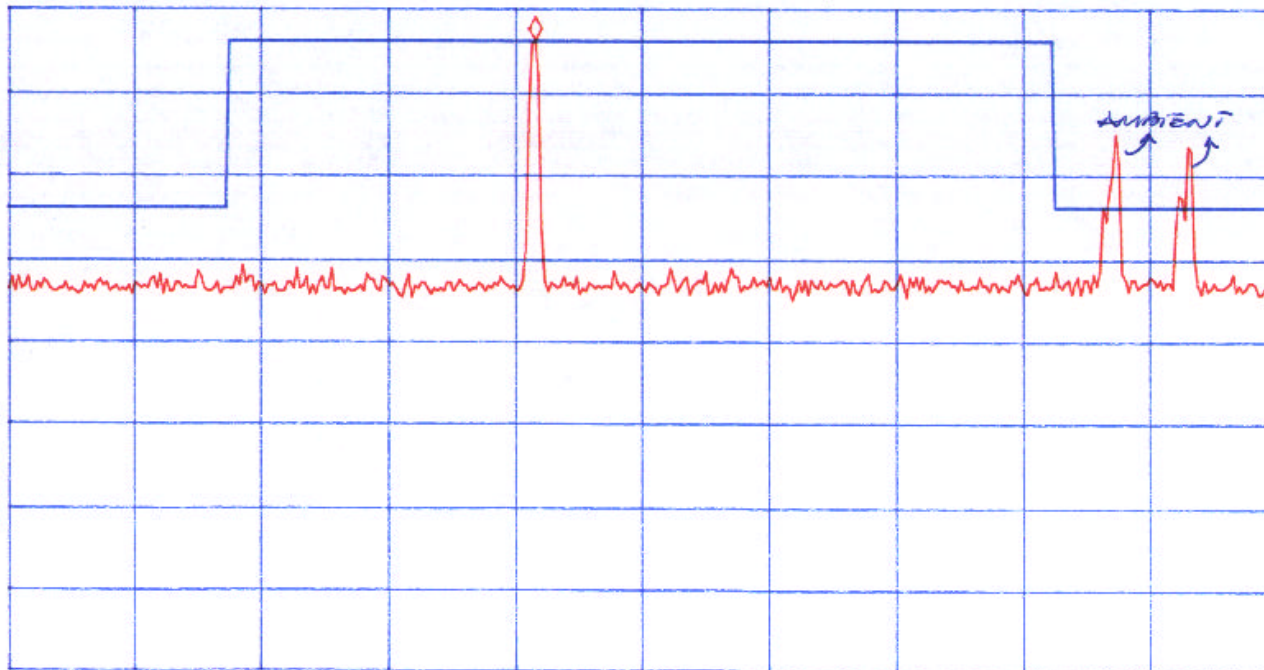
Aux Conn
Control

LOG REF 95.0 dB μ V/m

PREAMP ON

10
dB/
ATN
30 dB

MA SB
SC FC
ACORR



CENTER 915.00 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 40.00 MHz

SWP 37.5 msec

VERTICAL



UltraTech

Engineering Labs Inc.



18:13:52 JUN 05, 2000

ULTRATECH LABS Radiated Emissions Measurements @ 3 Meters

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 - 928 MHz)

Channel: 1, Tx frequency: 911.4 MHz, Band: 3

Date: June 5, 2000

Tested by: Hung Trinh

BASE UNIT

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 911.50 MHz

84.16 dB μ V/m

Last Hrd
Key Menu

SPAN

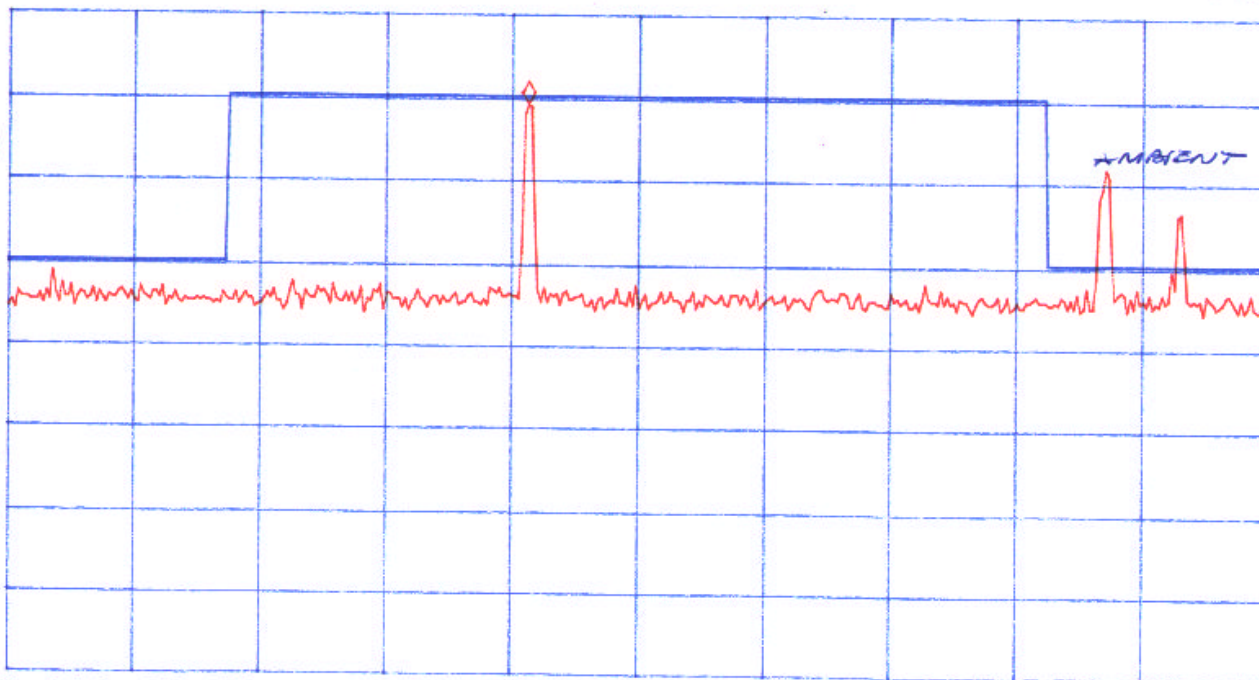
Aux Conn
Control

LOG REF 95.0 dB μ V/m

10
dB/
ATN
30 dB

PREAMP ON

VA SB
SC FC
ACORR



CENTER 915.00 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 40.00 MHz

SWP 37.5 msec

HORIZONTAL



UltraTech
Engineering Labs Inc.

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 – 928 MHz)

Channel: 15, Tx frequency: 914.2 MHz, Band: 3

BASE UNIT

Date: June 5, 2000
Tested by: Hung Trinh



18:24:17 JUN 05 2000

ULTRATECH LABS 3M OFTS 3142 #1347

Radiated Emissions Measurements @ 3 Meters

SPAN
40.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 914.40 MHz
90.58 dB μ V/m

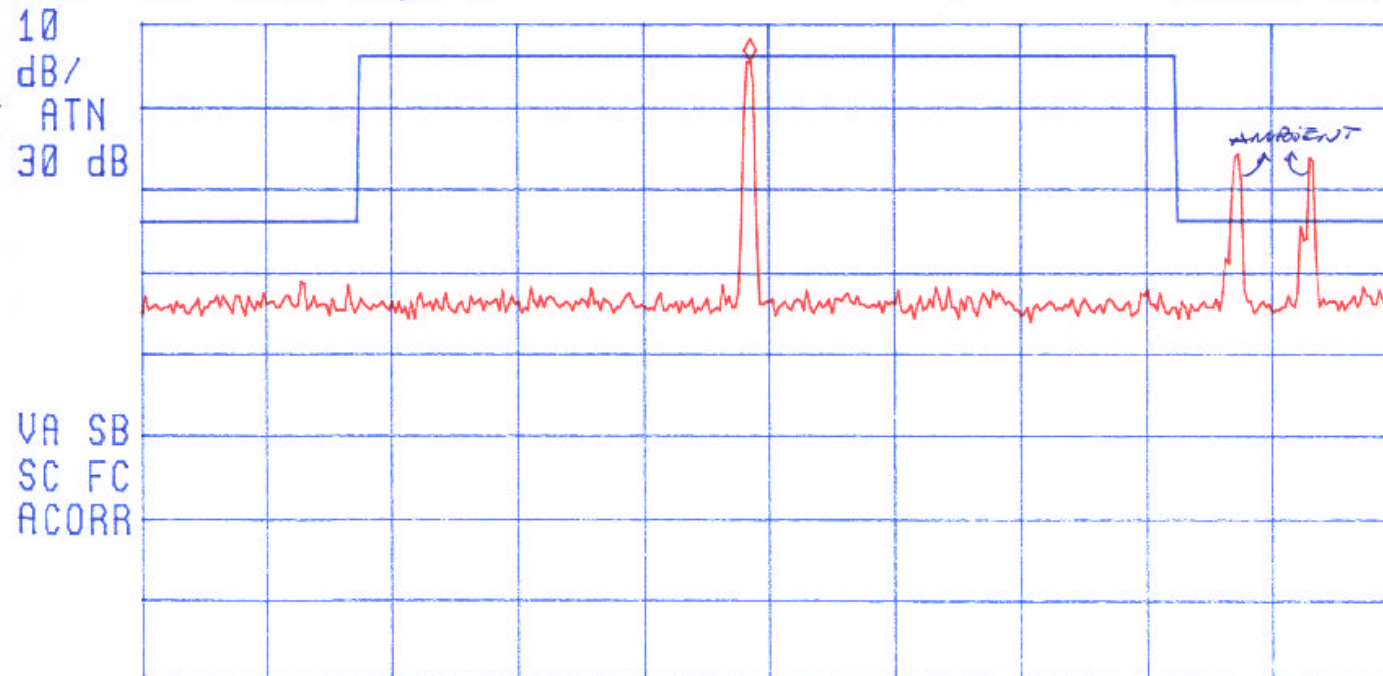
Last Hrd
Key Menu

SPAN

Aux Conn
Control

LOG REF 95.0 dB μ V/m

PREAMP ON



CENTER 915.00 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 40.00 MHz

SWP 37.5 msec

VERTICAL



UltraTech

Engineering Labs Inc.



18:29:13 JUN 05 2000

ULTRATECH LABS SH OFIS SITE #1917

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 – 928 MHz)

Channel: 15, Tx frequency: 914.2 MHz, Band: 3

Date: June 5, 2000

Tested by: Hung Trinh

BASE UNIT

Radiated Emissions Measurements @ 3 Meters

SPAN

40.00 MHz

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 914.40 MHz

87.85 dB μ V/m

Last Hrd
Key Menu

SPAN

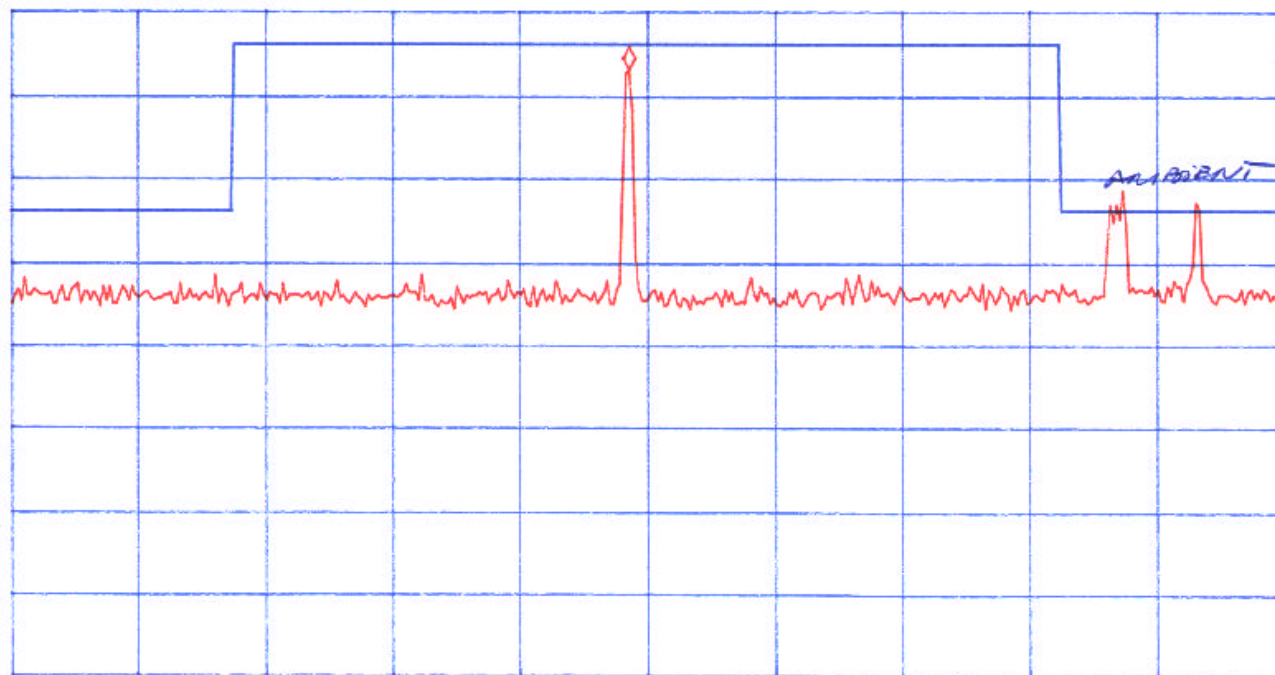
Aux Conn
Control

LOG REF 95.0 dB μ V/m

PREAMP ON

10
dB/
ATN
30 dB

VA SB
SC FC
ACORR



CENTER 915.00 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 40.00 MHz

SWP 37.5 msec

4140.779.374



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Engineering Labs Inc.

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 – 928 MHz)

Channel: 1, Tx frequency: 915.8 MHz, Band: 4

BASE UNIT

Date: June 5, 2000

Tested by: Hung Trinh



17:52:16 JUN 05 2000

Radiated Emissions Measurements @ 3 Meters

ULTRATECH LABS 3M OFTS 3142 #1347

SPAN
40.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 915.90 MHz
90.53 dB μ V/m

Last Hrd
Key Menu

SPAN

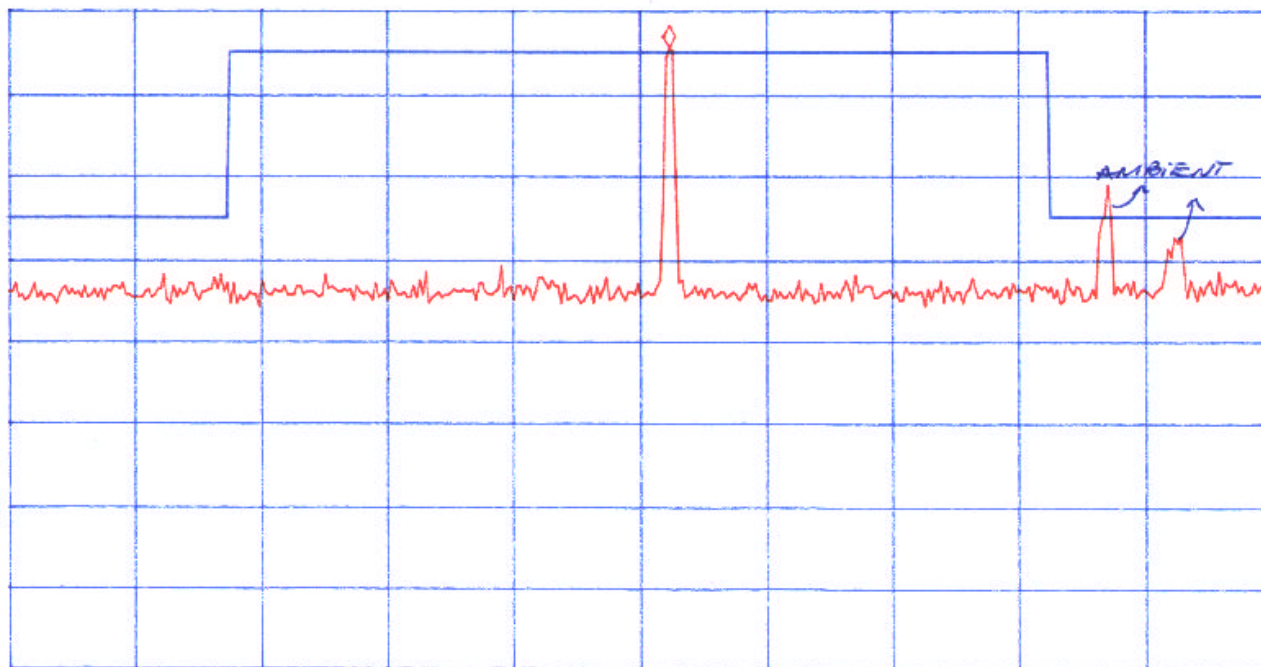
Aux Conn
Control

LOG REF 95.0 dB μ V/m

PREAMP ON

10
dB/
ATN
30 dB

VA SB
SC FC
ACORR



CENTER 915.00 MHz

IF BW 120 kHz

AVG BW 300 kHz
VERTICAL

SPAN 40.00 MHz

SWP 37.5 msec



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Engineering Labs Inc.



17:57:41 JUN 05 2000

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 - 928 MHz)

Channel: 1, Tx frequency: 915.8 MHz, Band: 4

Date: June 5, 2000

Tested by: Hung Trinh

BASE UNIT

ULTRATECH LABS - 310015 SITE #1917

Radiated Emissions Measurements @ 3 Meters

SPAN
40.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 915.90 MHz
86.55 dB μ V/m

Last Hrd
Key Menu

SPAN

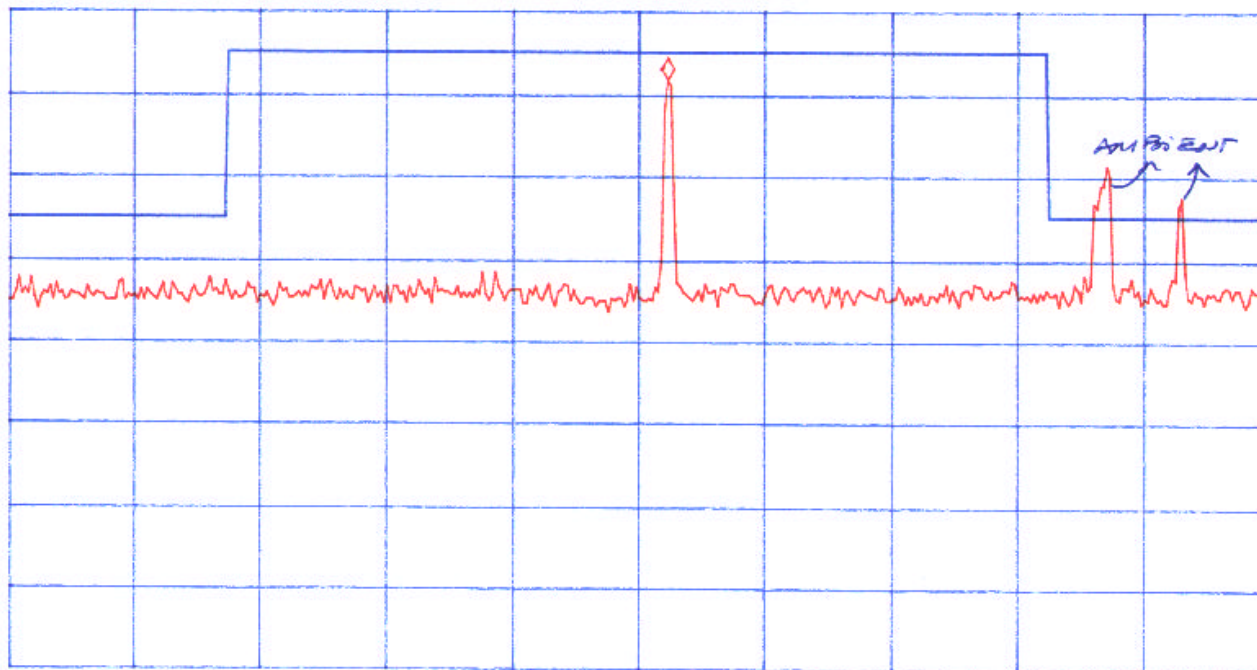
LOG REF 95.0 dB μ V/m

10
dB/
ATN
30 dB

PREAMP ON

Aux Conn
Control

VA SB
SC FC
ACORR



CENTER 915.00 MHz

IF BW 120 kHz

AUG BW 300 kHz

SPAN 40.00 MHz

SWP 37.5 msec

HORIZONTAL



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Engineering Labs Inc.

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 – 928 MHz)

Channel: 15, Tx frequency: 918.6 MHz, Band: 4

Date: June 5 2000

Tested by: Hung Trinh



17:46:48 JUN 05 2000

ULTRATECH LABS 3M OFTS 3142 #1347

BASE UNIT

Radiated Emissions Measurements @ 3 Meters

SPAN
40.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 918.70 MHz
91.64 dB μ V/m

Last Hrd
Key Menu

SPAN

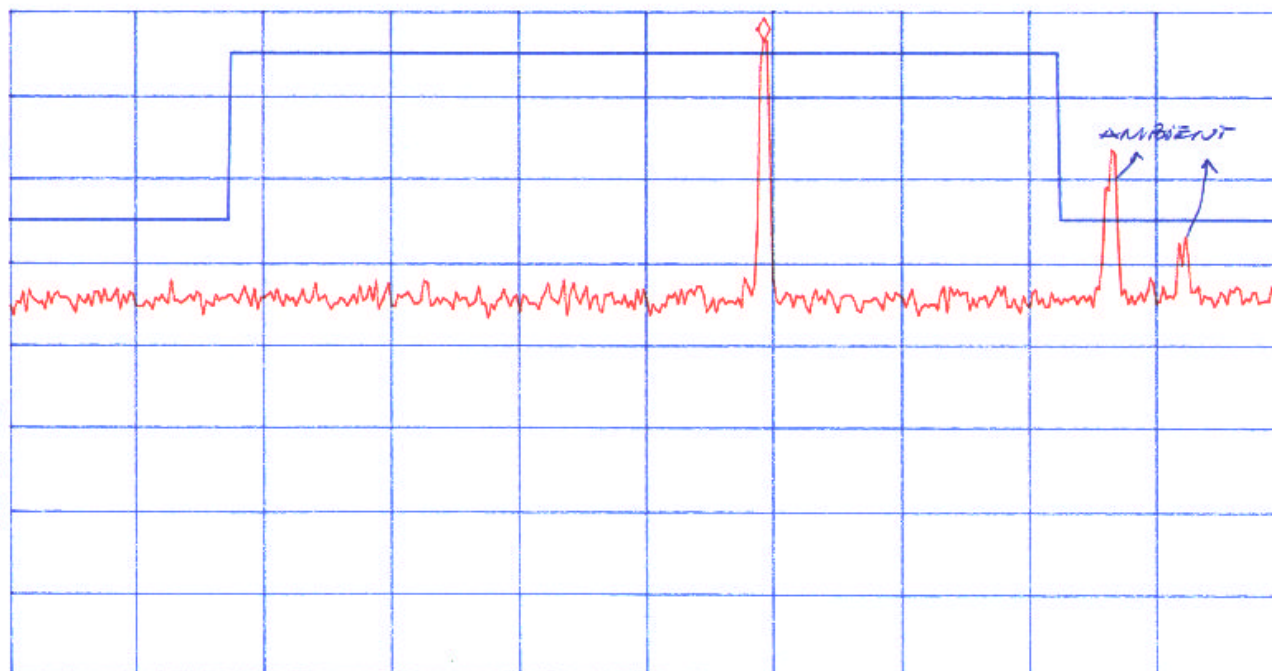
Aux Conn
Control

LOG REF 95.0 dB μ V/m

PREAMP ON

10
dB/
ATN
30 dB

VA SB
SC FC
ACORR



CENTER 915.00 MHz

IF BW 120 kHz

AUG BW 300 kHz

VERTICAL

SPAN 40.00 MHz

SWP 37.5 msec



UltraTech

Engineering Labs Inc.



17:39:44 JUN 05, 2000

ULTRATECH LABS' SH OPTO SITE #1317

IVI CHECKMATE INC.

Elite 770 Short Range Point of Sales Terminal, (902 - 928 MHz)

Channel: 15, Tx frequency: 918.6 MHz, Band: 4

Date: June 5, 2000

Tested by: Hung Trinh

Radiated Emissions Measurements @ 3 Meters

SPAN
40.00 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 918.70 MHz
87.88 dB μ V/m

Last Hrd
Key Menu

SPAN

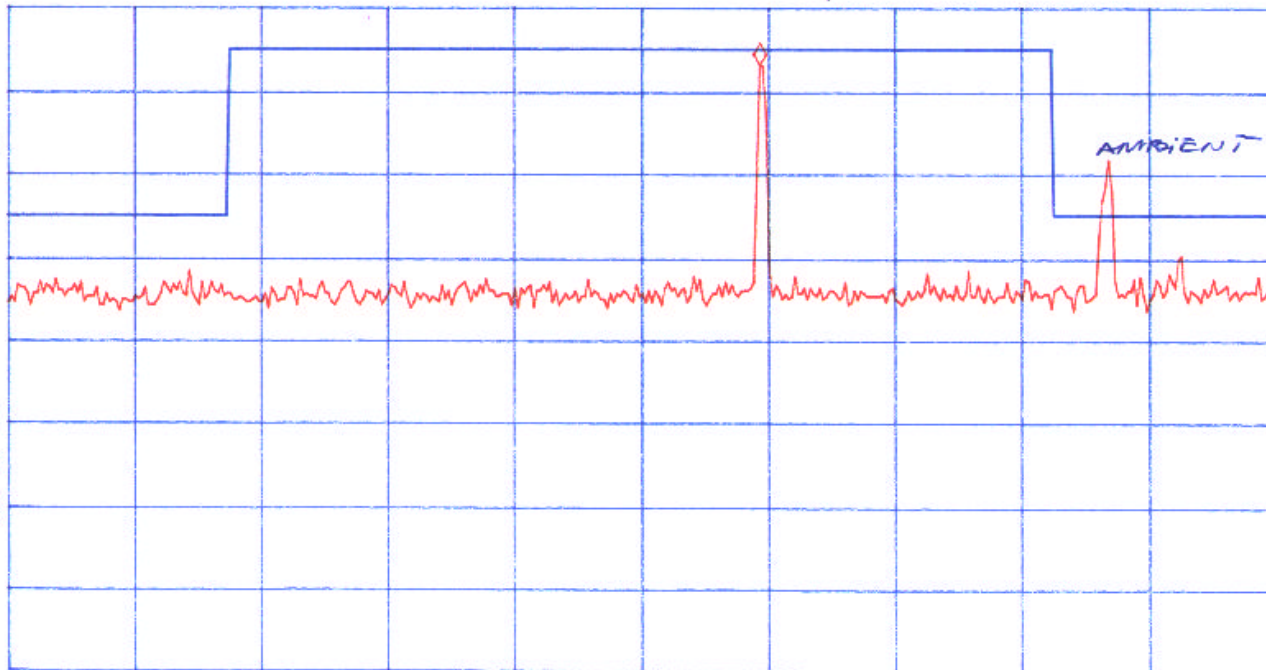
Aux Conn
Control

LOG REF 95.0 dB μ V/m

PREAMP ON

10
dB/
ATN
30 dB

VA SB
SC FC
ACORR



CENTER 915.00 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 40.00 MHz

SWP 37.5 msec

HORIZONTAL