

**T.E.S.T.**

556 Route 222 • P.O. Box 8 • Groton, New York 13073 • 1-800-724-6452 • FAX: 607-898-4830 • 607-898-4218

July 28, 2005

Mr. Grant Carlson  
**GENIE Company**  
22790 Lake Park Boulevard  
Alliance, OH 44601

FCC ID # B8Q315390T

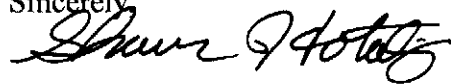
Dear Mr. Carlson:

Enclosed is the test report for the **GENIE Company** Standard Transmitter models GICTD and GITD tested at our facility, located at 556 Route 222 in Groton, NY. This facility is on file with the Federal Communications Commission (FCC) per 47 CFR 2.948 (Site File Number 31040/SIT) and is NVLAP accredited.

As narrated in the report, the product configuration meets the requirements of the FCC per CFR 47 Part 15.231 Class C for Unintentional Radiators.

Thank you for selecting Diversified T.E.S.T. Technologies, Inc. for your testing needs. We look forward to working with you on future projects. Should you have any questions or concerns regarding this report, contact me at 607-898-4218. Please feel free to visit our website at [www.dttlabs.com](http://www.dttlabs.com).

Sincerely,



Shaun Hotaling  
Technical Associate

***DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT***

**The Genie Company**  
Standard Genie Transmitter

**Project Number:**  
5797

***Table of Contents***

**Emissions Testing**

**Documentation**

Test Report	1 – 8
Test Regulations	3
Summary	6
Test Setup Photographs	7 – 8

**Test Data**

Radiated Emissions	4, 6
--------------------	------

**Appendix A**

Radiated Emissions Test Data Sheets – 315 MHz	A1
Radiated Emissions Test Data Sheets – 390 MHz	A2

**Appendix B**

Measurement Protocol	B1
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**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797

***Test Report***

Laboratory

**Diversified TEST Technologies, Inc.**  
556 Route 222 – PO Box 8  
Groton, NY 13073  
607-898-4218

Manufacturer

**The Genie Company**  
22790 Lake Park Boulevard  
Alliance, OH 44601

Report Issue Date: **July 19, 2005**  
Project Number: **5797**

Date Received: **July 11, 2005**  
Date Tested: **July 11-13, 2005**

Product: **Standard Genie Transmitter**  
Model: **GICTD, GITD**  
Sample S/N:


*Traceability: Reference standards of measurement have been calibrated by a competent body using standards traceable to NIST.*

The testing performed by Diversified TEST Technologies, Inc. has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the standard(s) specified on page 3 of the test report. The results in this test report apply only to the product denoted above. The manufacturer is responsible for ensuring that additional units are manufactured with identical mechanical and electrical characteristics.

**The equipment listed above conforms to the specified requirements of the test standards listed on page 3 of this report.**

Complied by:  
Signature:   
Shaun Hotaling  
Technical Associate

Date: 8/15/05

Reviewed by:  
Signature:   
Thomas Sims  
Engineer

Date: 8/15/05

<b>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</b>	
<b>The Genie Company</b> Standard Genie Transmitter	Project Number: 5797

## ***Emissions Test Regulations***

**The emissions tests were performed according to the following regulations:**

☐ EN 50081-1:1992

☐ EN 50081-2:1995

☐ EN 55011:1998 / A1:1999 / A2:2001

☐ Group 1

☐ Group 2

☐ Class A

☐ Class B

☐ EN 55013:1990 / A12:1994 / A13:1996 / A14:1999

☐ EN 55014:1993 / A1: 1997

☐ Household appliances and similar

☐ Portable tools

☐ Semiconductor devices

☐ EN 55022:1998

☐ Class A

☐ Class B

☒ FCC Part 15.231

☐ Class A

☐ Class B

☒ Class C

☒ Certification

☐ Verification

☐ Declaration of Conformity

**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT****The Genie Company**  
Standard Genie TransmitterProject Number:  
5797**Emissions Test Conditions: RADIATED EMISSIONS**

The Radiated Emissions measurements, in the frequency range of 30 MHz – 1000 MHz, were tested in a horizontal and vertical polarization at the following test location:

- ☒ Diversified TEST Technologies, Inc. Open Area Test Site  
☐ Diversified TEST Technologies, Inc. Lab

at a test distance of:

- ☒ 3 meters  
☐ 10 meters  
☐ 30 meters

Test equipment used:

Manufacturer	Model	Description	Serial #
Hewlett Packard	8593EM	Spectrum Analyzer	3536A00139
Electro-Metrics	RGA60	Ridge Horn Antenna	2981
Hewlett Packard	7550A	Plotter	2407A00476
Electro-Metrics	BIA-25	Biconical Antenna, 20-220 MHz	001
Electro-Metrics	LPA-25	Log Periodic Antenna 200-1000 MHz	1242
	MFR-57500	Blue low-loss transmit cable	337
EMCO		12-foot diameter non-conductive wooden turntable	
		Co-ax Cable, 100-foot RG 8/U, 20-foot RG 223/U	
		30-meter open field test range, grounded with ½" x ½" hardware cloth	
		AC supply cord, 100-foot, grounded	
		100-foot signal cable for remote testing	

<b>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</b>	
<b>The Genie Company</b> Standard Genie Transmitter	Project Number: 5797

### **Equipment Under Test (EUT) Test Operation Mode – Emissions Tests:**

**The device under test was operated under the following conditions during emissions testing:**

- ☐ Standby
- ☐ Normal Operating Mode
- ☒ Practice Operation

### **Description / Configuration of the device under test:**

The Genie Standard Transmitter transmits signals from garage door openers. The device was tested in three orientations, flat, horizontal, and vertical, at ten harmonics.

### **Rationale for EUT setup / configuration:**

ANSI C63.4

**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797

**Emissions Test Results:**

**Radiated Emissions 30 MHz – 1000 MHz**

The requirements are ☒ MET ☐ NOT MET

**General Remarks:**

The 20 dB bandwidth is 381 kHz. This meets the requirements of being less than 0.25% of the center frequency (360 MHz). The maximum allowable bandwidth at 360 MHz is 900 kHz.

Measurements were taken up to the tenth harmonic.

The EUT was evaluated in 3 orthogonal orientations and the worst case data is reflected in the test report.

**Summary:**

The requirements according to the technical regulations are

☒ met  
☐ not met.

The device under test does

☒ fulfill the general approval requirements mentioned on page 3.  
☐ not fulfill the general approval requirements mentioned on page 3.

Testing Start Date: July 11, 2005

Testing End Date: July 13, 2005

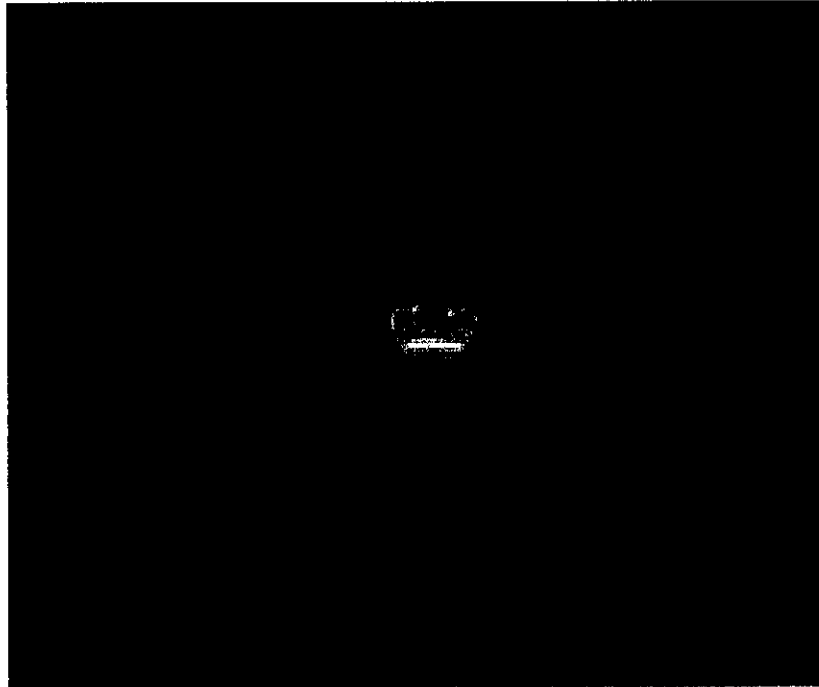
***DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT***

**The Genie Company**  
Standard Genie Transmitter

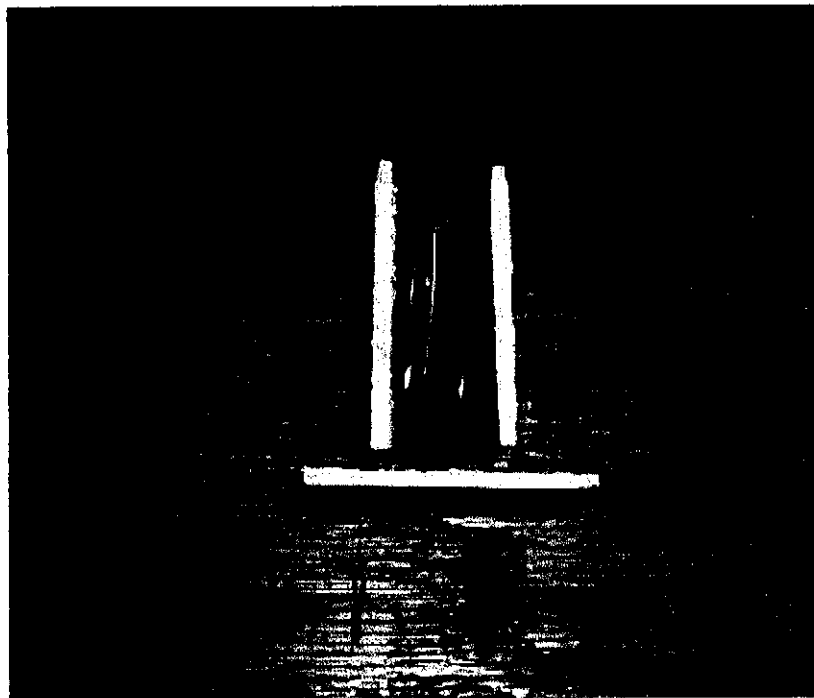
Project Number:  
5797

**Test Setup Photographs:**

**RADIATED EMISSIONS – 315 MHz / 390 MHz**



Photograph 1: Radiated Emissions – Flat



Photograph 2: Radiated Emissions – Horizontal

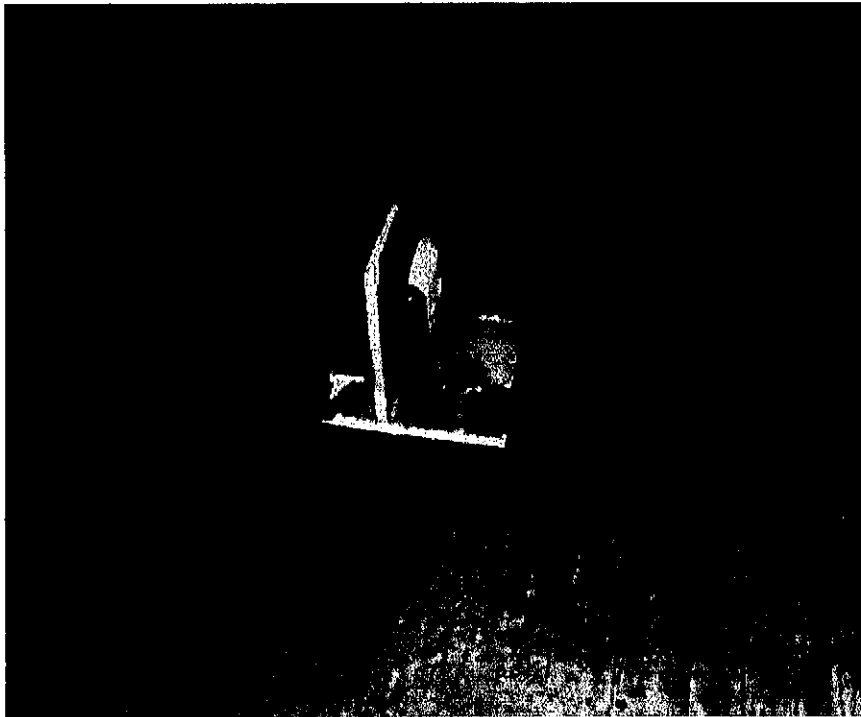
*This report shall not be reproduced, except in full, without the written approval of DTT, Inc.*



***DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT***

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797



Photograph 3: Radiated Emissions – Vertical

***DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT***

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797

# Appendix A

## Test Data Sheets

***DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT***

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797

**Radiated Emissions Test Data – 315 MHz**

13 pages of data sheets to follow.

sition: Horizontal

Ant: Horizontal

1 m

40 deg.

315 MHz

14:50:46 JUL 12, 2005

MARKER  $\Delta$   
1.58 MHz  
-.12 dB

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.58 MHz  
-.12 dB

MARKER  
NORMAL

MARKER  
 $\Delta$

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

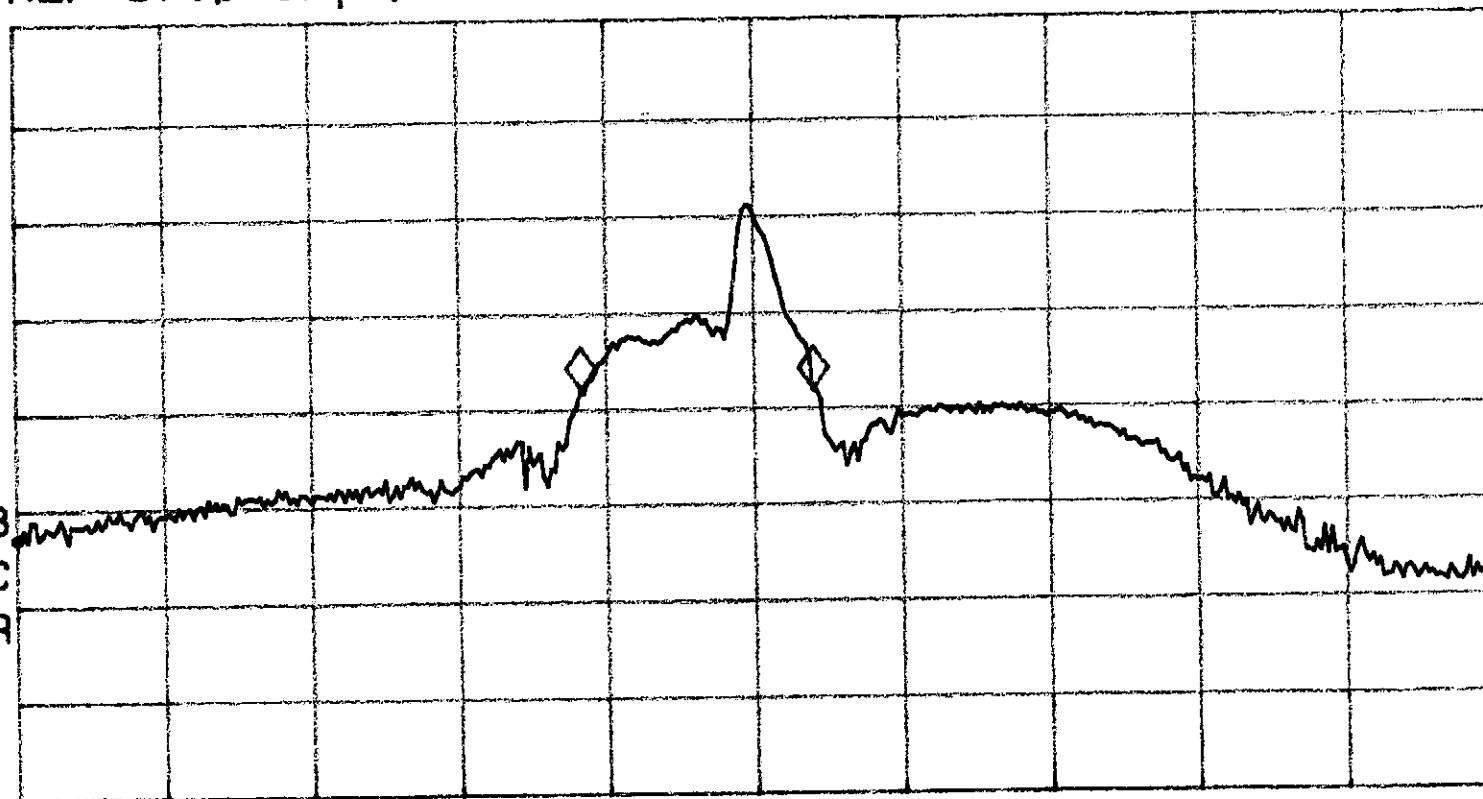
MARKER  
AMPTD

SELECT  
1 2 3 4

VA SB  
SC FC  
ACORR

MARKER 1  
ON OFF

More  
1 of 3



CENTER 315.00 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 10.00 MHz

SWP 20.0 msec

Position: Vertical    Ant: Vertical    2.5 m    mini    10 deg.  
15 mHz

07:07:47 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	314.688825	67.7	64.0	37.2
2	629.964675	48.4	43.3	36.1

CENTER  
FREQ

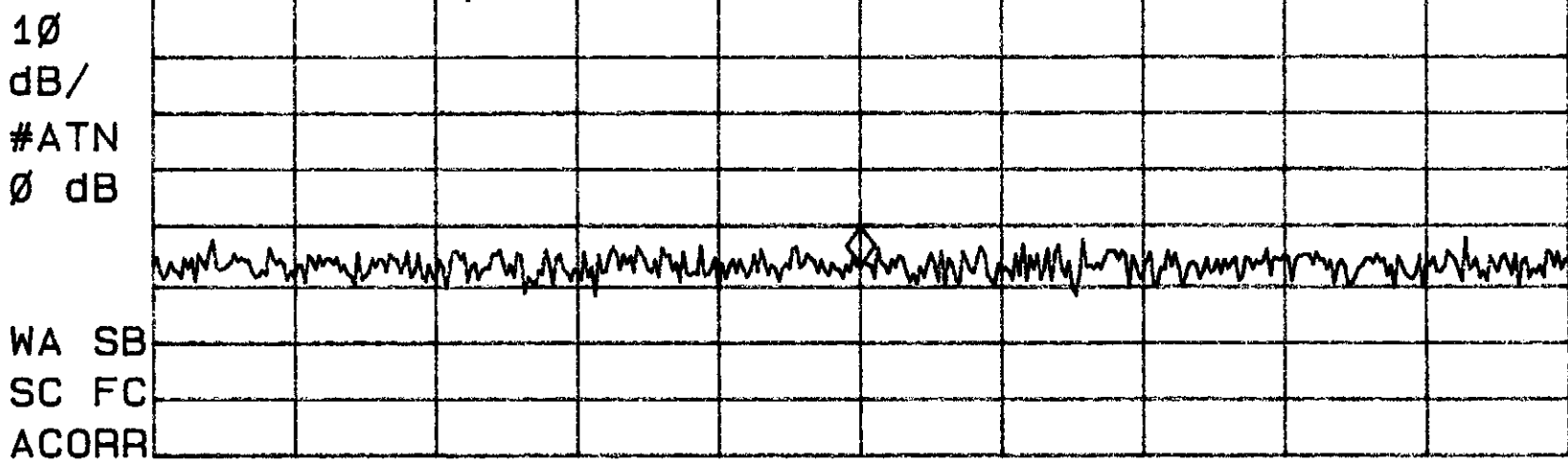
START  
FREQ

CENTER  
314.689 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 314.689 MHz  
49.95 dBµV/m

STOP  
FREQ

LOG REF 97.0 dBµV/m



CF STEP  
AUTO MAN

SWEEP  
LOG LIN

More  
1 of 2

CENTER 314.689 MHz    SPAN 5.000 MHz  
IF BW 120 kHz    AVG BW 300 kHz    SWP 20.0 msec

Position: Vertical    Alt: Horizontal    2.5 m    min    180 deg.

315 MHz

06:57:59 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	314.662100	64.6	60.2	34.7
2	630.034675	46.2	41.2	34.8

CENTER  
FREQ

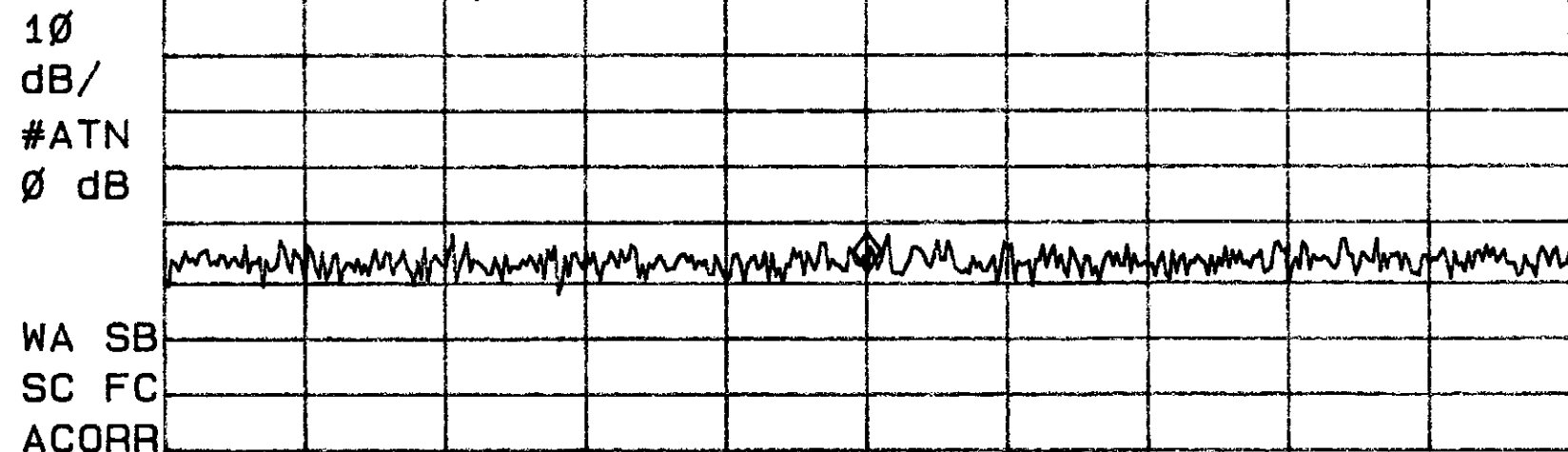
START  
FREQ

CENTER  
314.662 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 314.662 MHz  
48.26 dB $\mu$ V/m

STOP  
FREQ

LOG REF 97.0 dB $\mu$ V/m



CF STEP  
AUTO MAN

SWEEP  
LOG LIN

More  
1 of 2

CENTER 314.662 MHz    SPAN 5.000 MHz  
IF BW 120 kHz    AVG BW 300 kHz    SWP 20.0 msec

Position: Horizontal Ant: Horizontal 1 m mini 90 deg.  
315 MHz

06:44:40 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	314.701575	62.6	58.6	33.8
2	630.118850	46.8	40.9	34.5

CENTER  
FREQ

START  
FREQ

CENTER  
314.702 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 314.702 MHz  
48.42 dB $\mu$ V/m

STOP  
FREQ

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

CF STEP  
AUTO MAN

SWEEP  
LOG LIN

WA SB  
SC FC  
ACORR

More  
1 of 2

CENTER 314.702 MHz

SPAN 5.000 MHz

IF BW 120 kHz

AVG BW 300 kHz

SWP 20.0 msec

Position: Horizontal Ant: vertical 2.5 m mini ~~90~~ deg  
315 MHz

06: 18: 55 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	315.017900	65.6	60.0	48.4
2	644.942300	46.2	40.8	34.4

TUNE  
SLO FAST

MARKER  
TUNE SPN

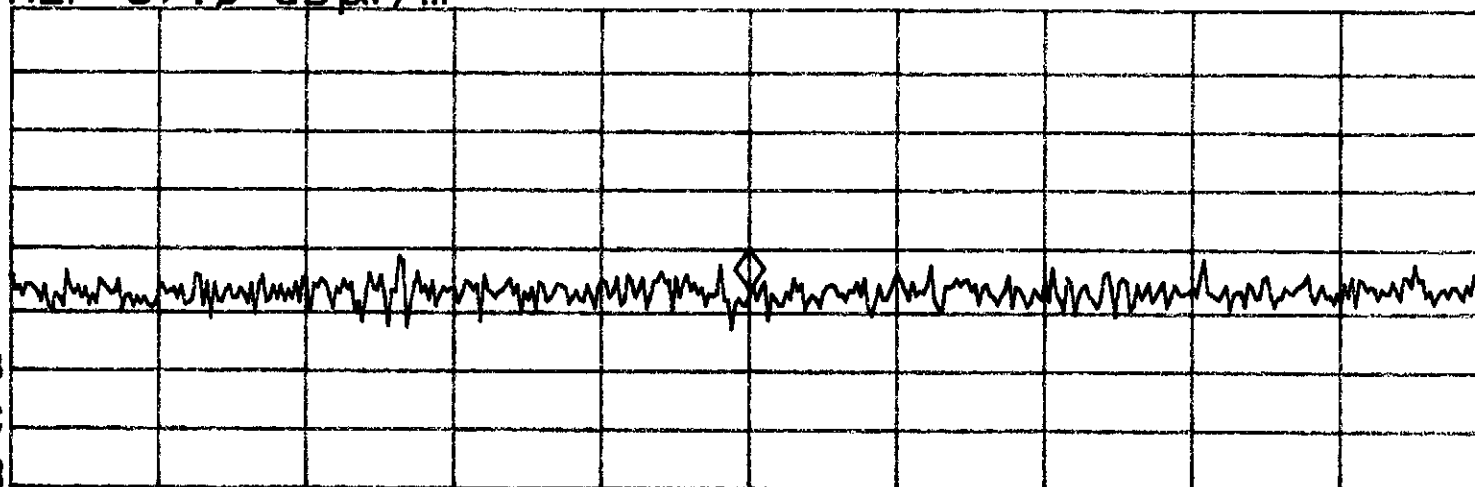
CENTER  
315.018 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 315.018 MHz  
50.16 dB $\mu$ V/m  
FRQ SCAN  
ON OFF

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



MEASURE  
AT MKR

ADD TO  
LIST

More  
1 of 3

CENTER 315.018 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec



Position: Flat

Ant. Vertical 1m

mini

20 deg.

315 MHz

06:09:13 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	314.967900	54.9	50.2	40.5
2	629.946575	47.8	42.6	35.7

CENTER  
FREQ

START  
FREQ

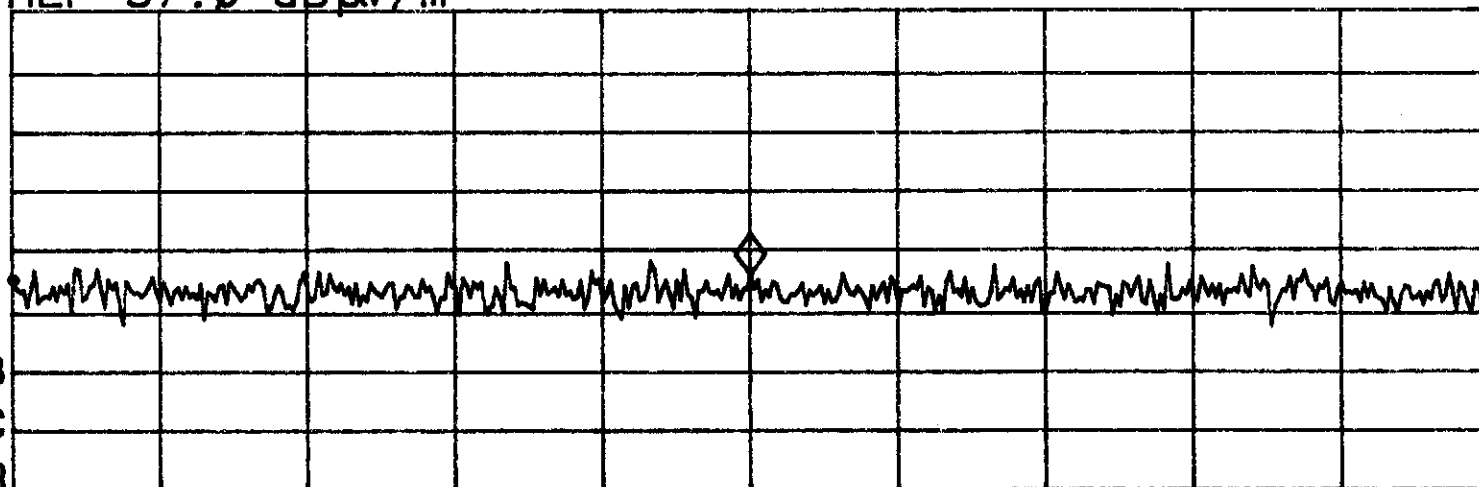
CENTER  
314.968 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 314.968 MHz  
52.73 dB $\mu$ V/m

STOP  
FREQ

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB



CF STEP  
AUTO MAN

SWEEP  
LOG LIN

WA SB  
SC FC  
ACORR

More  
1 of 2

CENTER 314.968 MHz

SPAN 5.000 MHz

IF BW 120 kHz

AVG BW 300 kHz

SWP 20.0 msec

position: Flat  
315 MHz

Ant: Horizontal 1m

mini

2008

05:55:53 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	314.982500	73.7	71.9	60.4
2	629.957400	49.7	45.5	37.7

SELECT  
FRM LIST

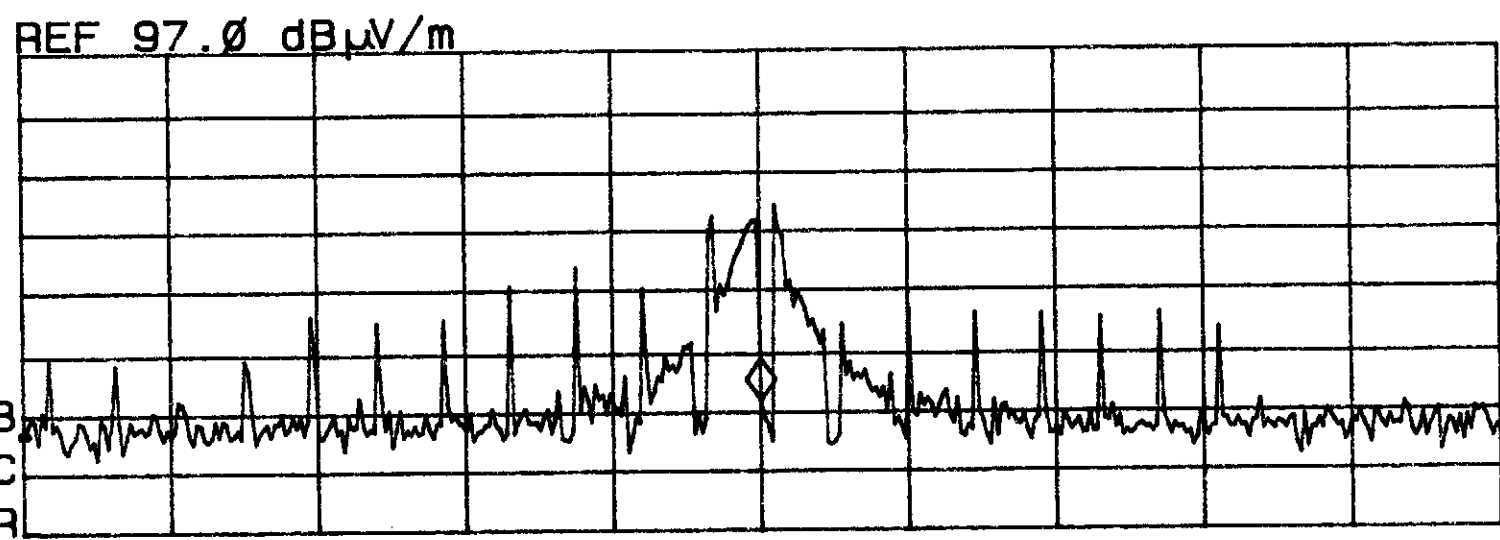
SIG LIST  
ON OFF

SIGNAL NUMBER  
1

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 314.983 MHz  
38.49 dB $\mu$ V/m

EDIT  
LIST

LOG  
10  
dB/  
#ATN  
0 dB



Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR

More  
2 of 3

CENTER 314.983 MHz SPAN 5.000 MHz  
IF BW 120 kHz AVG BW 300 kHz SWP 20.0 msec

08:27:12 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1259.879900	48.6	44.1	35.4
2	1889.788000	55.0	51.5	41.5

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.25988 GHz  
36.99 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR

More  
2 of 3

CENTER 1.25988 GHz

SPAN 10.00 MHz

IF BW 120 KHz

AVG BW 300 KHz

SWP 20.0 msec

31.5 MHz

position: Horizontal

ATT: Vertical

08:22:23 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1574.835950	53.7	50.6	40.6
2	2204.829250	52.4	47.3	38.8
3	2834.702400	52.9	47.8	39.9
4	3150.198700	50.4	45.2	38.9

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER

1

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 1.57484 GHz

39.68 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

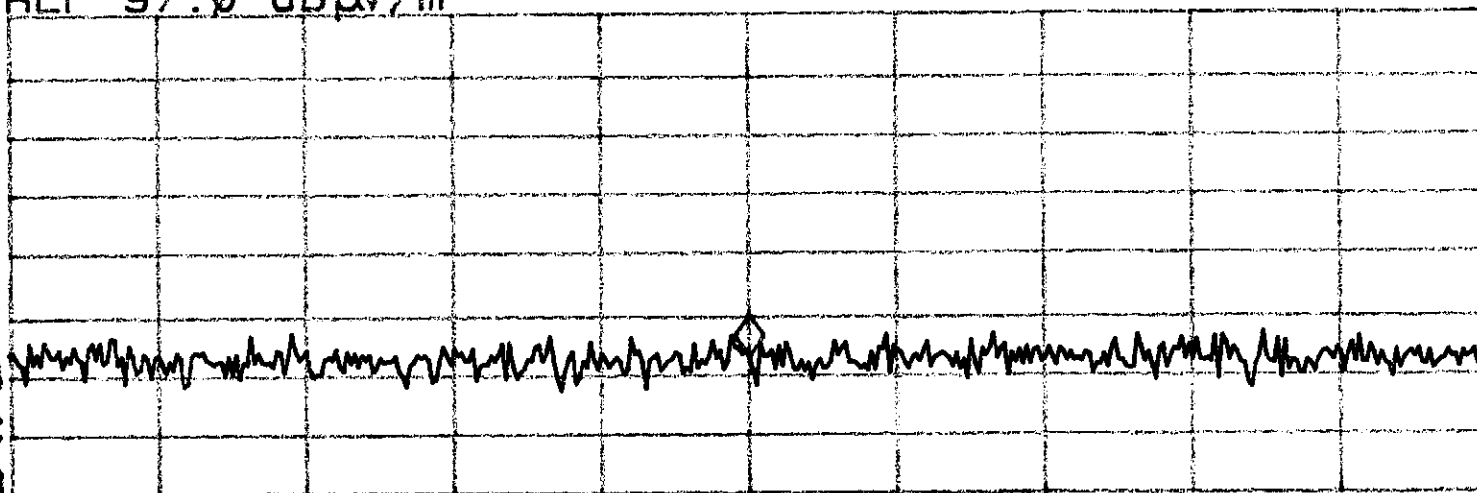
10  
dB/  
#ATN  
0 dB

Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR

More  
2 of 3



CENTER 1.57484 GHz

SPAN 10.00 MHz

IF BW 120 KHz

AVG BW 300 KHz

SWP 20.0 msec

315MHz

position: Horizontal

ANT: Horizontal

08:16:47 JUL 13, 2005

	Signal Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1259.870150	46.9	41.3	34.0
2	1574.846750	54.2	51.6	41.3
3	1889.805600	57.5	55.4	44.7
4	2204.764900	53.4	49.0	40.3
5	2834.762550	53.3	48.1	40.0

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.25987 GHz  
44.86 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR

More  
2 of 3

CENTER 1.25987 GHz SPAN 10.00 MHz  
IF BW 120 KHz AVG BW 300 KHz SWP 20.0 msec

315 MHz

oscillation vertical

ANTI horizontal

08:01:38 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1574.829050	48.3	43.6	35.8
2	1889.805650	52.6	47.6	39.0

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.57483 GHz  
39.98 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

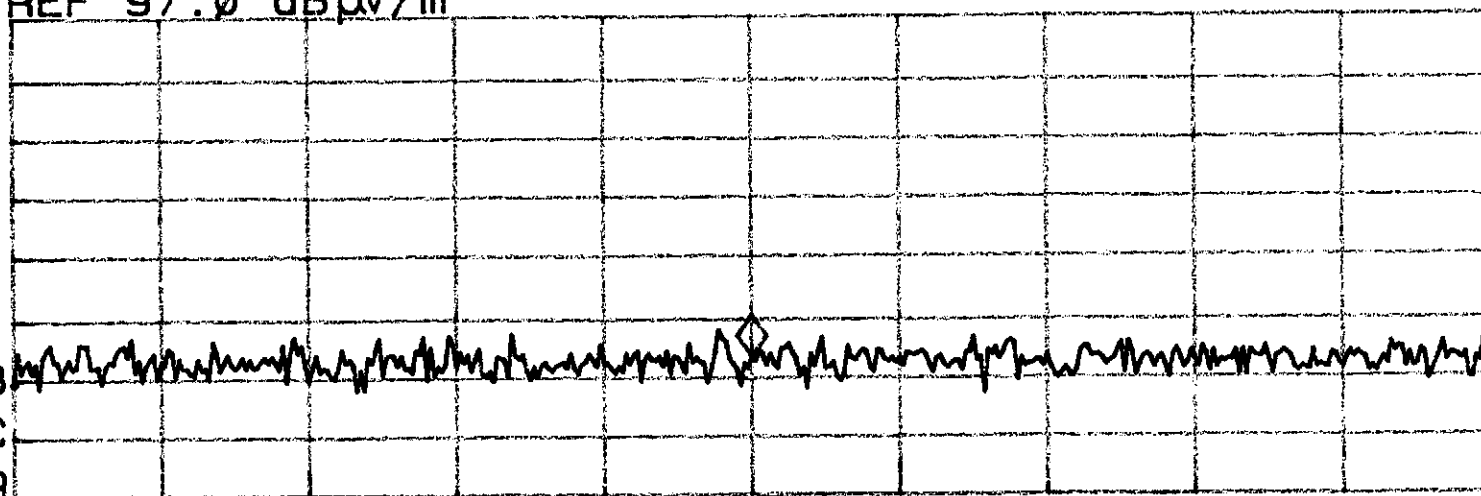
10  
dB/  
#ATN  
0 dB

Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR

More  
2 of 3



CENTER 1.57483 GHz

SPAN 10.00 MHz

IF BW 120 KHz

AVG BW 300 KHz

SWP 20.0 msec

215 m/L

position: Vertical

ANT: Vertical

07:48:59 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1259.886750	46.6	41.5	34.1
2	1574.821850	50.0	45.7	37.1
3	1889.808900	54.0	50.7	40.6
4	2204.755500	50.8	45.9	38.2

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

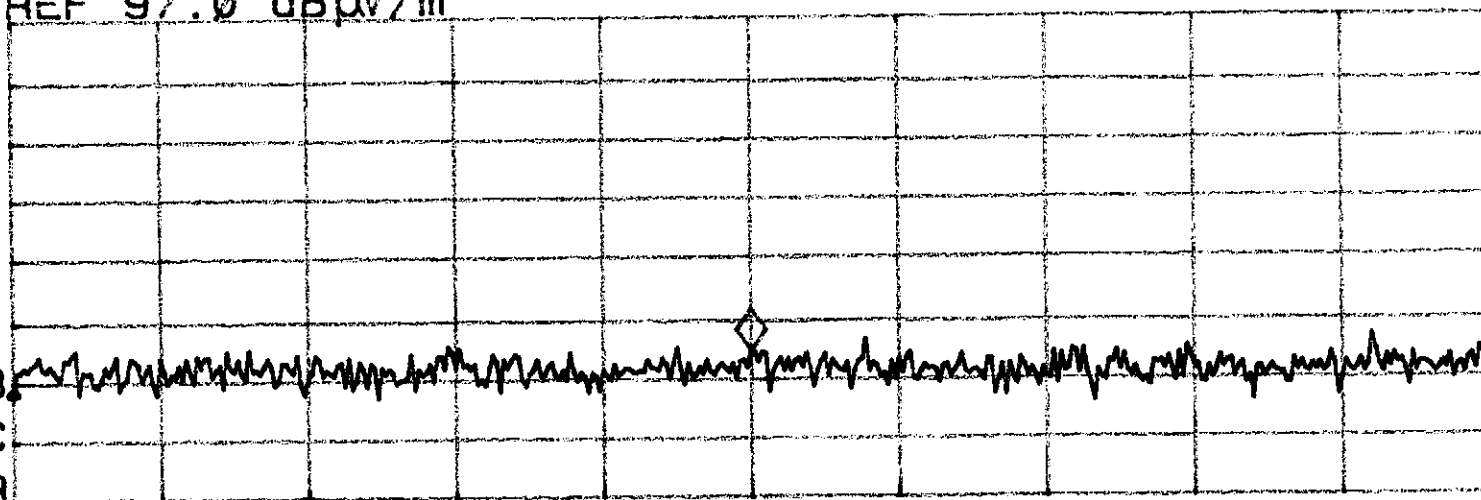
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.25989 GHz  
41.27 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 1.25989 GHz SPAN 10.00 MHz  
IF BW 120 KHz AVG BW 300 KHz SWP 20.0 msec

25mV 0.5dB Flat ANT Vertical

07:41:00 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1574.830850	51.4	48.1	38.7
2	1889.845050	59.6	56.4	45.1
3	2204.778600	53.7	49.8	40.7
4	2834.695150	53.5	48.0	39.9

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

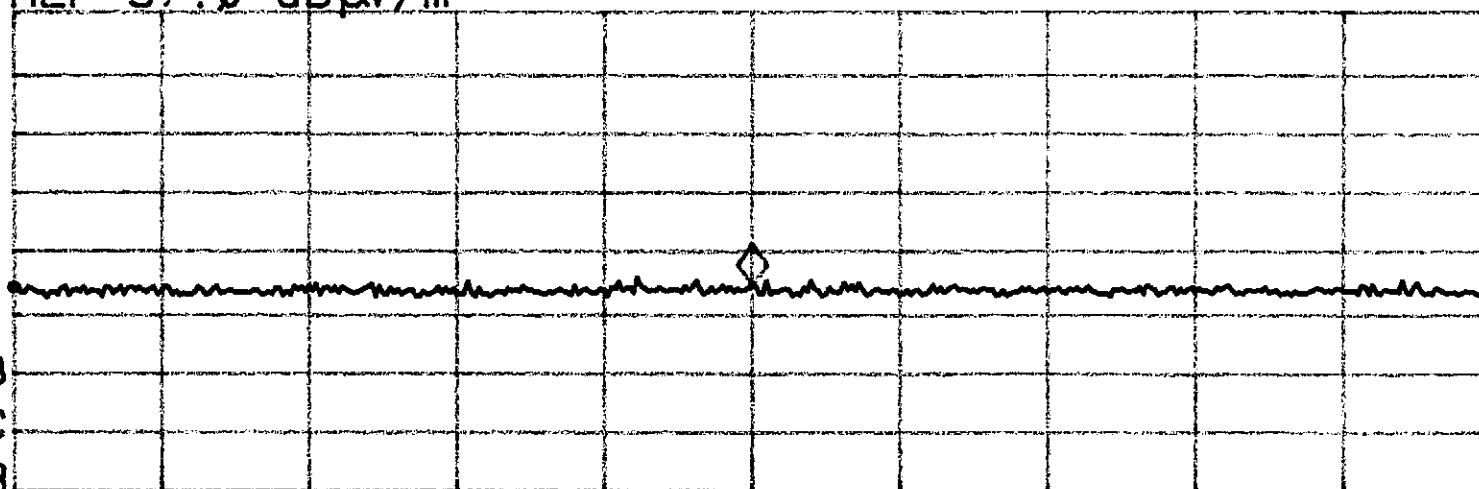
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.57483 GHz  
51.20 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

MA SB  
SC FC  
ACORR



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 1.57483 GHz

IF BW 120 KHz

AVG BW 300 KHz

SPAN 10.00 MHz

SWP 20.0 msec

215 MHz

Ant position: Flat

ANT: Horizontal



<b>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</b>	
<b>The Genie Company</b> Standard Genie Transmitter	Project Number: 5797

## **Radiated Emissions Test Data – 390 MHz**

13 pages of data sheets to follow.

Position: ~~Horizontal~~ Horizontal ATT: Horizontal Z 90 deg.  
390 MHz

14:24:02 JUL 12, 2005

MARKER  $\Delta$   
2.00 MHz  
.86 dB

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.00 MHz  
.86 dB

MARKER  
NORMAL

MARKER  
 $\Delta$

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

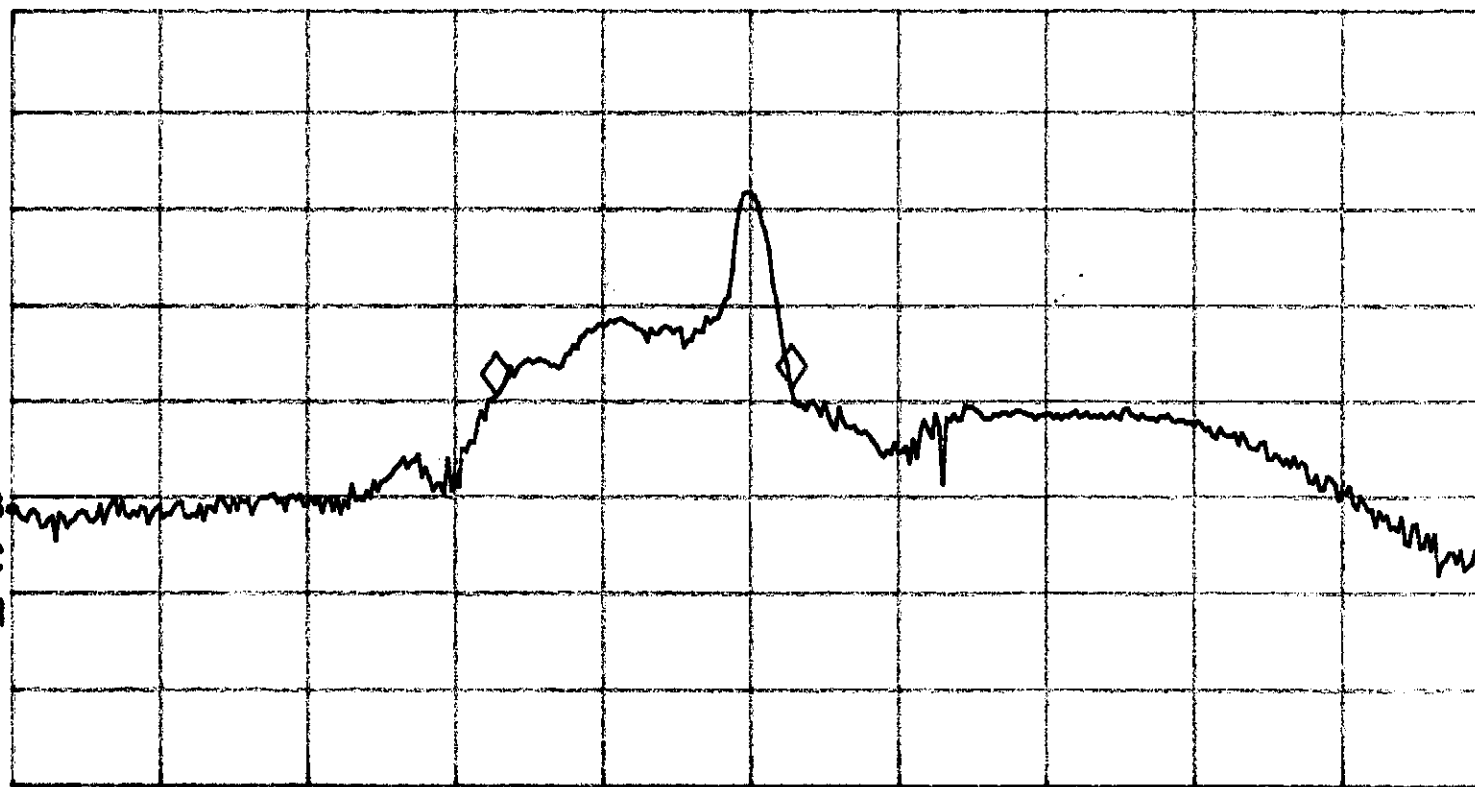
MARKER  
AMPTD

SELECT  
1 2 3 4

VA SB  
SC FC  
ACORR

MARKER 1  
ON OFF

More  
1 of 3



CENTER 390.20 MHz

IF BW 120 KHz

AVG BW 300 KHz

SPAN 10.00 MHz

SWP 20.0 msec

Position: Vertical    Ant: Vertical    Im    mini    0 deg.

390MHz

13:48:27 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	390.174000	74.6	74.2	62.1
2	780.352000	55.4	52.4	43.3

SELECT  
FRM LIST

SIG LIST  
ON OFF

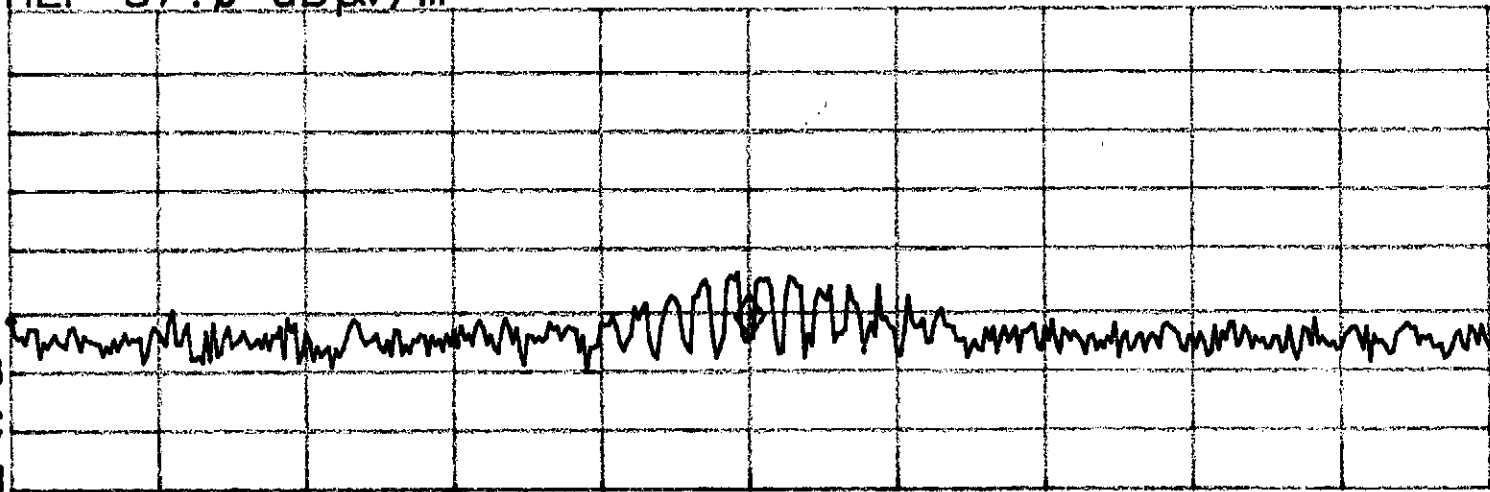
SIGNAL NUMBER  
2

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 780.352 MHz  
42.25 dBµV/m

EDIT  
LIST

LOG REF 97.0 dBµV/m

10  
dB/  
#ATN  
0 dB



Save/Rcl  
List

VIEW Δ  
OFF

WA SB  
SC FC  
ACORR

More  
2 of 3

CENTER 780.352 MHz    SPAN 1.000 MHz  
#IF BW 100 kHz    AVG BW 30 kHz    SWP 20.0 msec

Position: Vertical      Att: Horizontal      ILM      min: 0 deg.  
390MHz

13:36:12 JUL 12, 2005  
~~HP~~

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	TUNE
1	390.195000	74.4	73.8	61.8	<u>SLO</u> FAST
<span style="border: 1px solid black;">2</span>	780.352000	53.6	50.9	42.2	

MARKER  
TUNE SPN

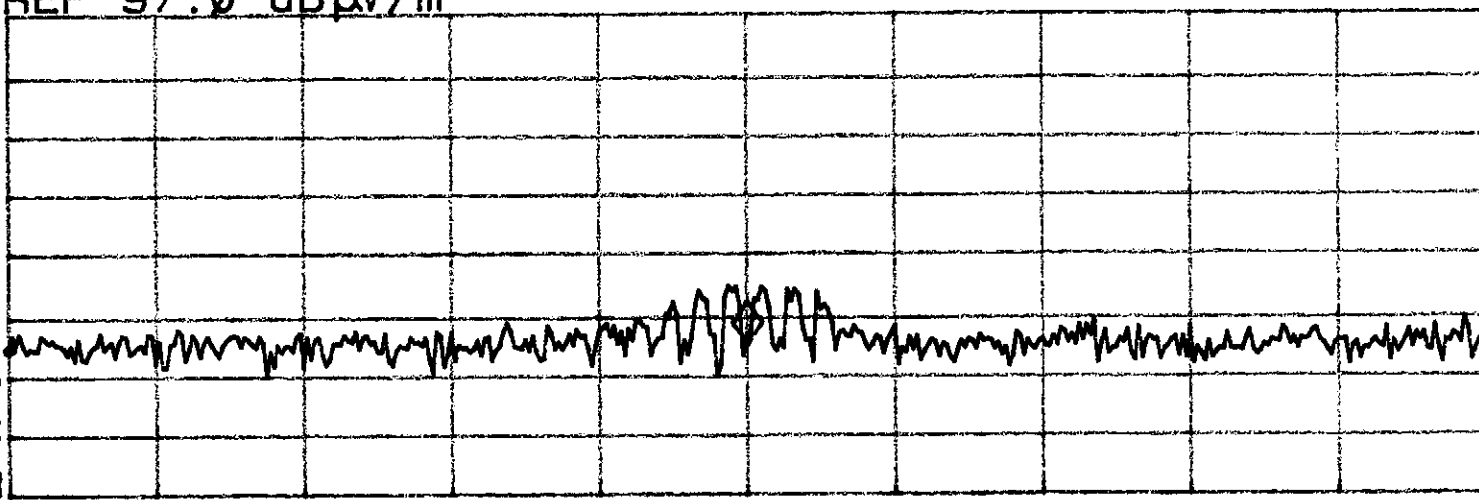
SIGNAL NUMBER  
2

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG FRQ SCAN  
MKR 780.352 MHz      ON OFF  
41.90 dBμV/m

LOG REF 97.0 dBμV/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



MEASURE  
AT MKR

ADD TO  
LIST

More  
1 of 3

CENTER 780.352 MHz      SPAN 1.000 MHz  
#IF BW 100 kHz      AVG BW 30 kHz      SWP 20.0 msec

Position: Horizontal ANT: Horizontal 1m min. 70 deg.  
390MHz

13: 17: 06 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	390.209975	74.8	73.2	60.5
2	780.348325	53.3	48.1	40.5

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
2

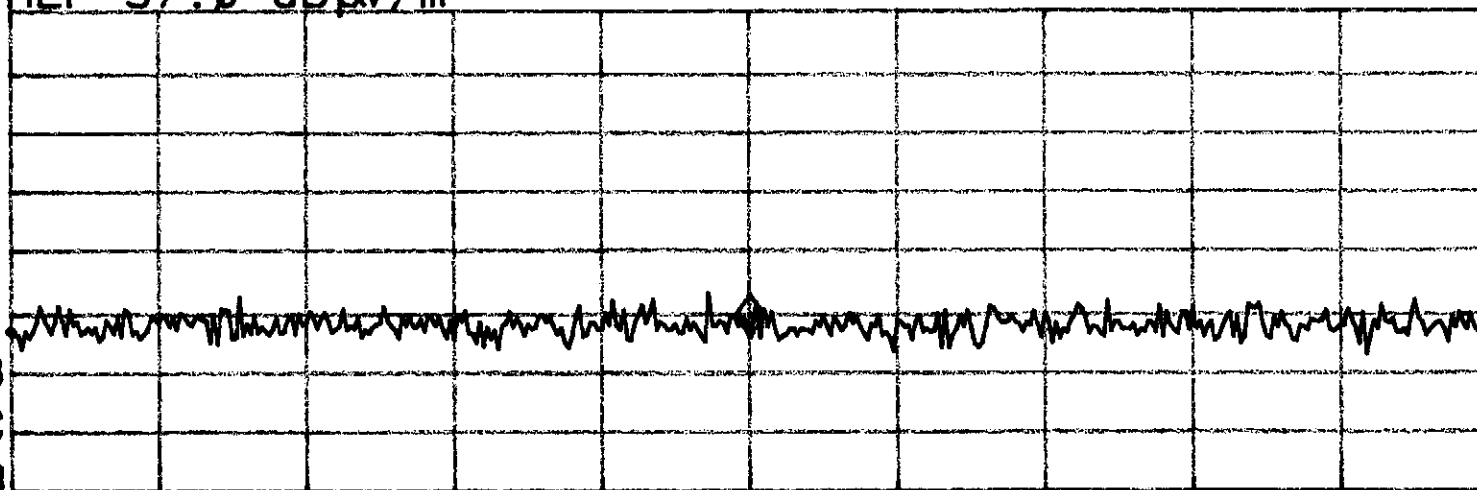
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 780.348 MHz  
42.59 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 780.348 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

Position: Horizontal ANT: Vertical 1.1 m mini 0 deg.  
390 MHz

08:12:27 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	390.120000	70.6	64.8	50.0
2	780.080450	51.5	45.1	38.7

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
2

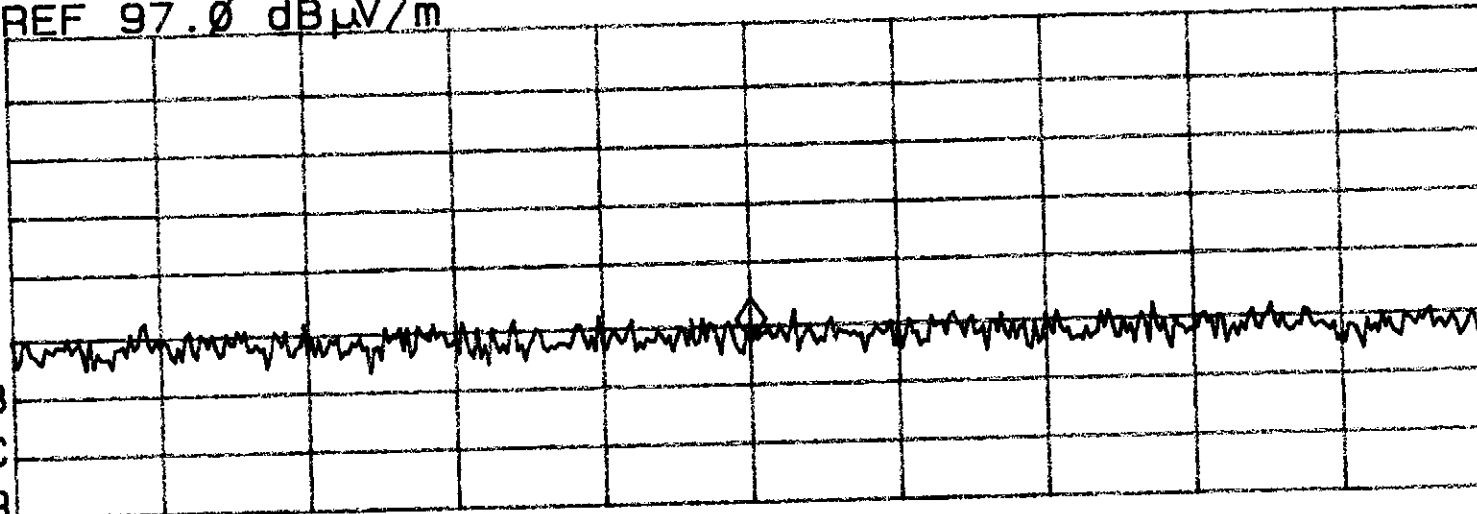
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 780.08 MHz  
43.91 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 780.08 MHz

IF BW 120 KHz

AVG BW 300 KHz

SPAN 10.00 MHz

SWP 20.0 msec

Position: Flat      Ant: Vertical 1m      min      0 deg.  
 90 MHz

07:56:10 JUL 12, 2005  
 HP

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	389.987600	56.8	51.2	31.4
2	780.063150	50.3	45.1	38.7

SELECT  
 FRM LIST

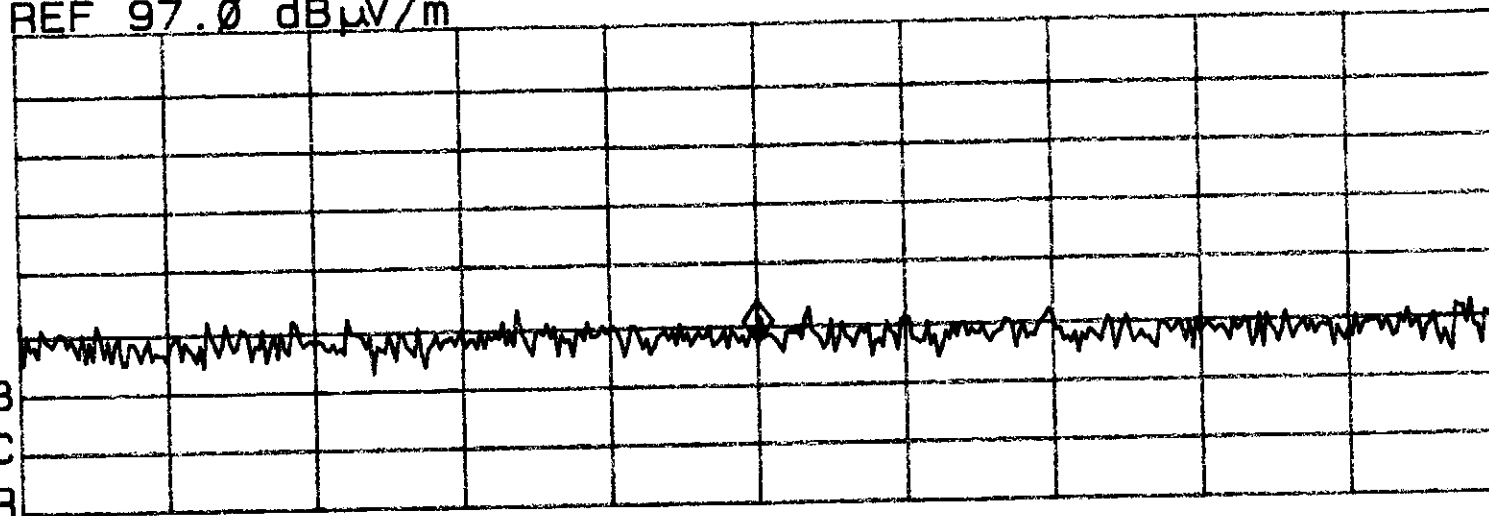
SIG LIST  
 ON OFF

SIGNAL NUMBER  
 2

ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 780.06 MHz  
 43.63 dBμV/m

EDIT  
 LIST

LOG REF 97.0 dBμV/m  
 10  
 dB/  
 #ATN  
 0 dB



Save/Rcl  
 List

VIEW Δ  
 OFF

WA SB  
 SC FC  
 ACORR

More  
 2 of 3

CENTER 780.06 MHz      SPAN 10.00 MHz  
 IF BW 120 kHz      AVG BW 300 kHz      SWP 20.0 msec

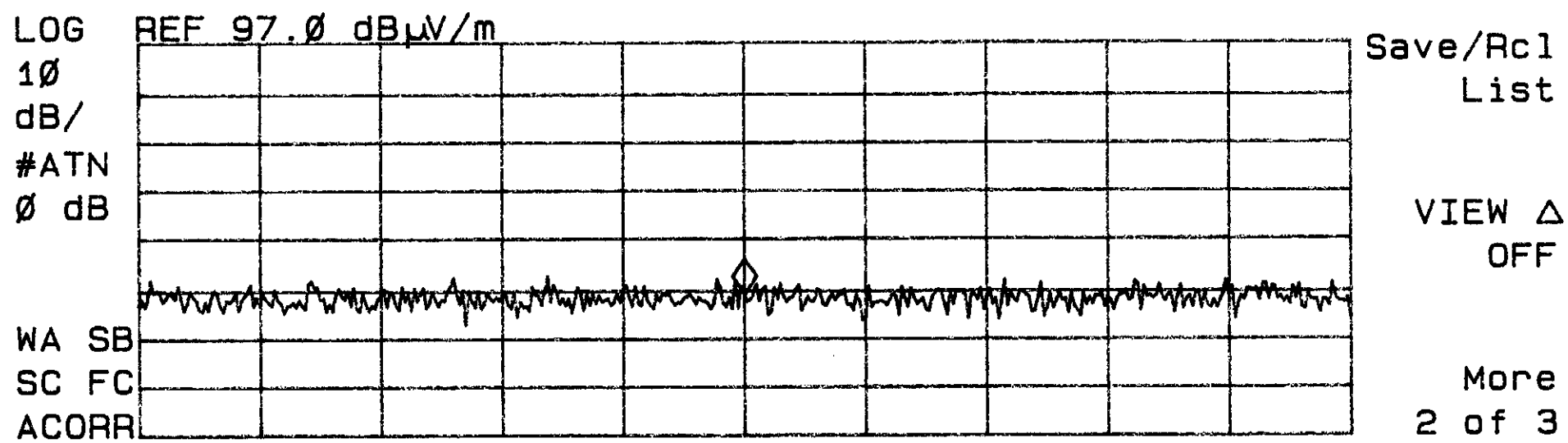
Position: Flat      Ant: Horizontal 1M      mini      0 deg.  
390 MHz

~~07~~ 07:23:15 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	
1	389.836350	72.6	65.9	39.9	<div>SELECT</div>
<div>2</div>	780.097800	50.8	45.2	38.7	<div>FRM LIST</div>

SIG LIST  
ON OFF

SIGNAL NUMBER	ACTV DET: PEAK	
2	MEAS DET: PEAK QP AVG	EDIT
	MKR 780.10 MHz	LIST
	45.74 dB $\mu$ V/m	



CENTER 780.10 MHz      SPAN 10.00 MHz  
IF BW 120 KHz      AVG BW 300 KHz      SWP 20.0 msec



09:07:43 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1170.563500	49.0	44.6	35.8
2	2341.142400	52.0	46.4	38.3
3	2731.321450	60.6	56.1	44.3
4	3511.446700	51.4	46.0	39.7

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.17056 GHz  
38.72 dB $\mu$ V/m

EDIT  
LIST

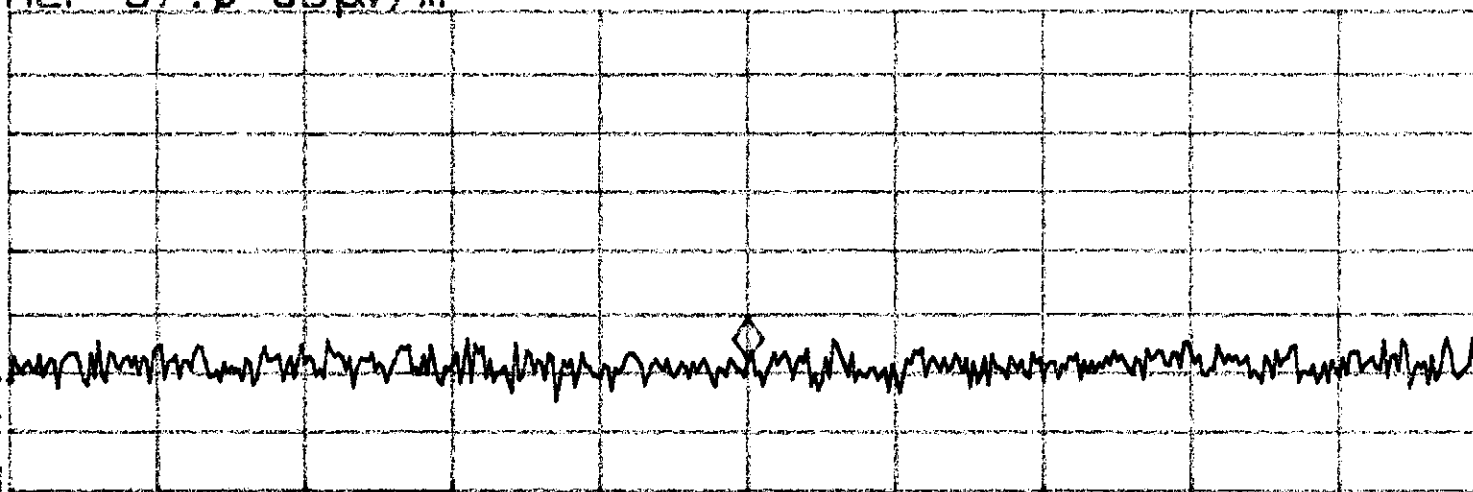
LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR



More  
2 of 3

CENTER 1.17056 GHz

SPAN 10.00 MHz

IF BW 120 KHz

AVG BW 300 KHz

SWP 20.0 msec

390 MHz

position: Vertical

ATT: Horizontal

09:01:54 JUL 13, 2005

	Signal Freq (MHz)	PK Amp	QP Amp	AV Amp
1	2341.136000	52.2	47.1	38.8
2	2730.825500	49.3	44.0	37.5

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

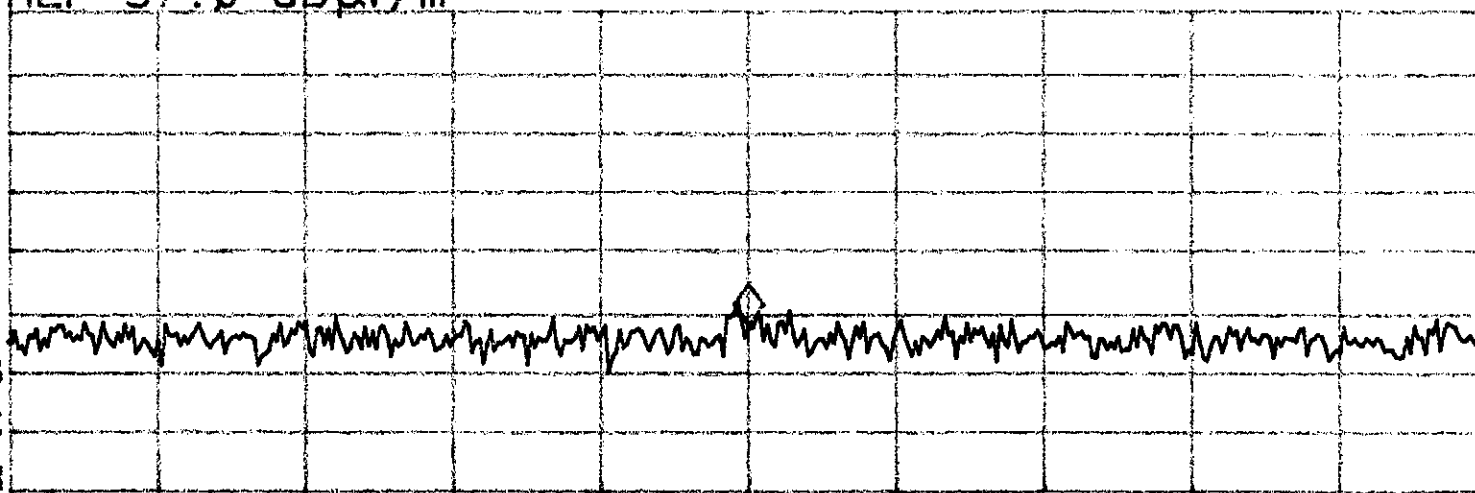
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.34114 GHz  
44.52 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 2.34114 GHz SPAN 10.00 MHz  
IF BW 120 KHz AVG BW 300 KHz SWP 20.0 msec

390MHz

position: vertical

ANT: vertical

08:57:01 JUL 13, 2005

	Signal Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1560.723250	47.5	40.9	34.1
2	2731.305500	51.6	46.4	39.0

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

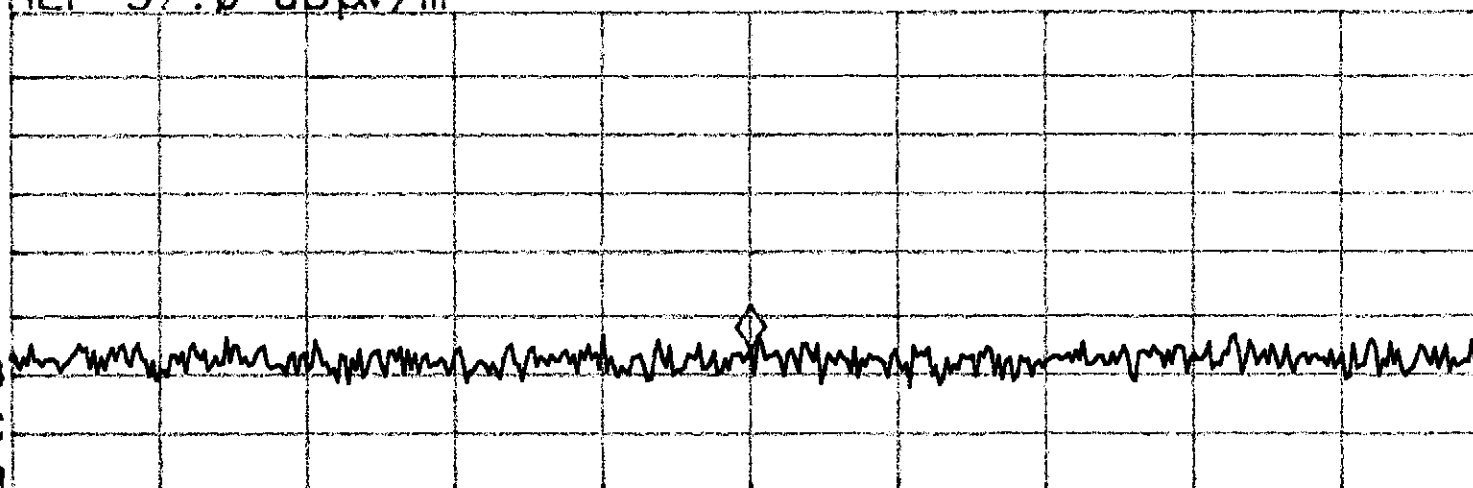
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.56072 GHz  
41.04 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 1.56072 GHz SPAN 10.00 MHz  
IF BW 120 KHz AVG BW 300 KHz SWP 20.0 msec

390 MHz position: Horizontal

ANT: Vertical

08:51:44 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1170.595150	46.5	40.8	33.7
2	1560.738300	47.3	41.8	34.7
3	2341.143850	55.5	50.8	40.7
4	2731.301250	52.3	47.5	39.5

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.17060 GHz  
37.64 dB $\mu$ V/m

EDIT  
LIST

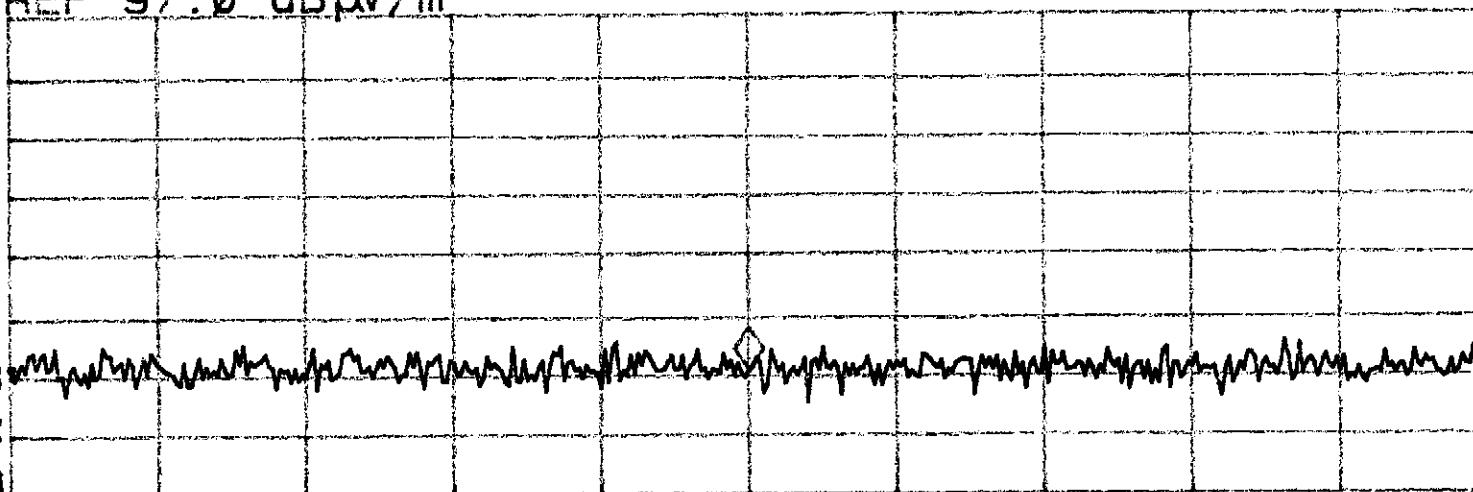
LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR



More  
2 of 3

CENTER 1.17060 GHz SPAN 10.00 MHz  
IF BW 120 kHz AVG BW 300 kHz SWP 20.0 msec

390MHz

Position: Horizontal

ANT: Horizontal

08:43:46 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1170.278000	43.9	38.7	32.3
2	1950.983900	50.1	43.4	36.3
3	2731.290350	53.6	48.4	40.0

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.17028 GHz  
37.20 dB $\mu$ V/m

EDIT  
LIST

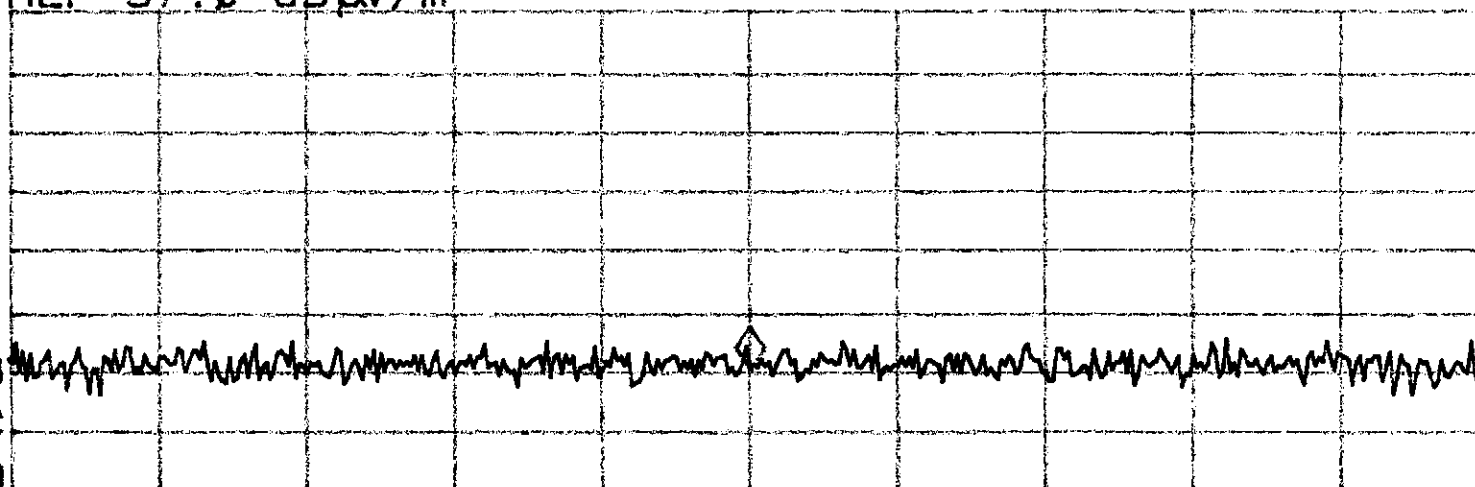
LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

Save/Rcl  
List

VIEW  $\Delta$   
OFF

WA SB  
SC FC  
ACORR



More  
2 of 3

CENTER 1.17028 GHz SPAN 10.00 MHz  
IF BW 120 KHz AVG BW 300 KHz SWP 20.0 msec

340 MHz

Resolution Flat

ANT Horizontal

08:38:05 JUL 13, 2005

	Signal Freq (MHz)	PK Amp	QP Amp	AV Amp
1	1170.567550	47.0	41.2	33.7
2	2341.166200	54.3	48.0	38.5

SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
1

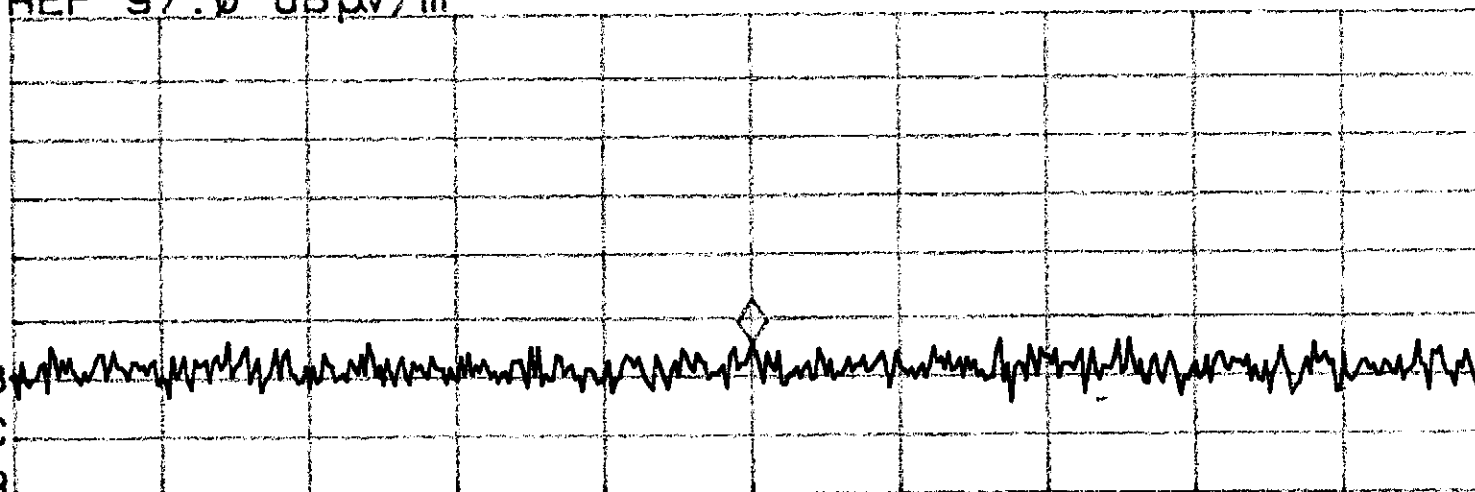
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 1.17057 GHz  
42.28 dB $\mu$ V/m

EDIT  
LIST

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

WA SB  
SC FC  
ACORR



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 1.17057 GHz SPAN 10.00 MHz  
IF BW 120 KHz AVG BW 300 KHz SWP 20.0 msec

390 MHz

position: Flat

ANT: Vertical

***DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT***

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797

# Appendix B

## Measurement Protocol

**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797

**Measurement Protocol**

The methodology used during the testing performed on the EUT in this report was ANSI C63.4:1992.

The EUT was powered with 9 Volts DC during the collection of data included within this report.

The data is compared to FCC Part 15.231C limits.

**Please have a company official review this report and sign.**

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