

# 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.dttlab.com](http://www.dttlab.com).

Sincerely,



Shaun Hotaling  
Technical Associate

**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT****The Genie Company**  
Standard Genie TransmitterProject Number:  
5797***Table of Contents*****Emissions Testing****Documentation**

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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

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

**The Genie Company**  
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:

<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>	<b>Serial #</b>
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	

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

**The Genie Company**  
Standard Genie Transmitter

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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

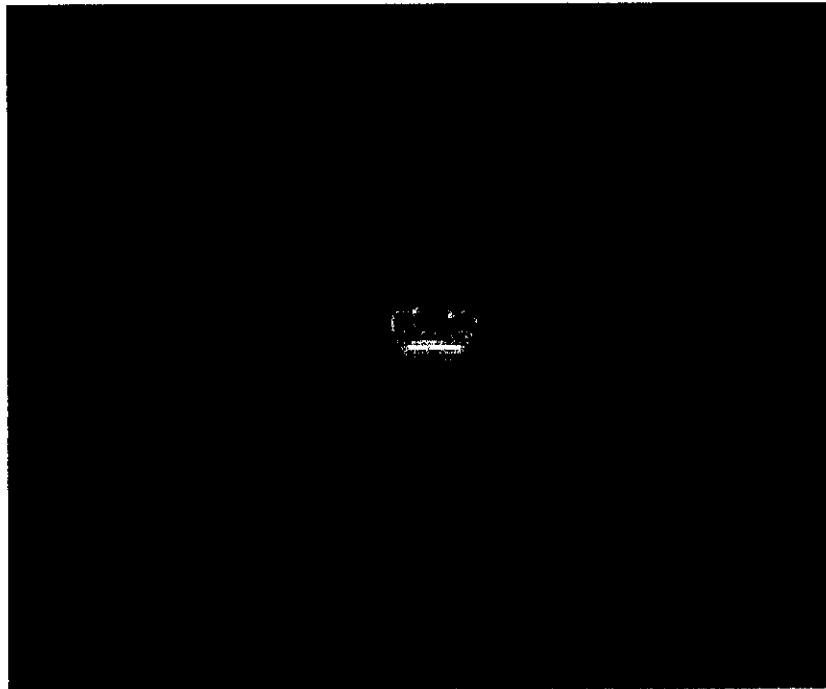
**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**

**The Genie Company**  
Standard Genie Transmitter

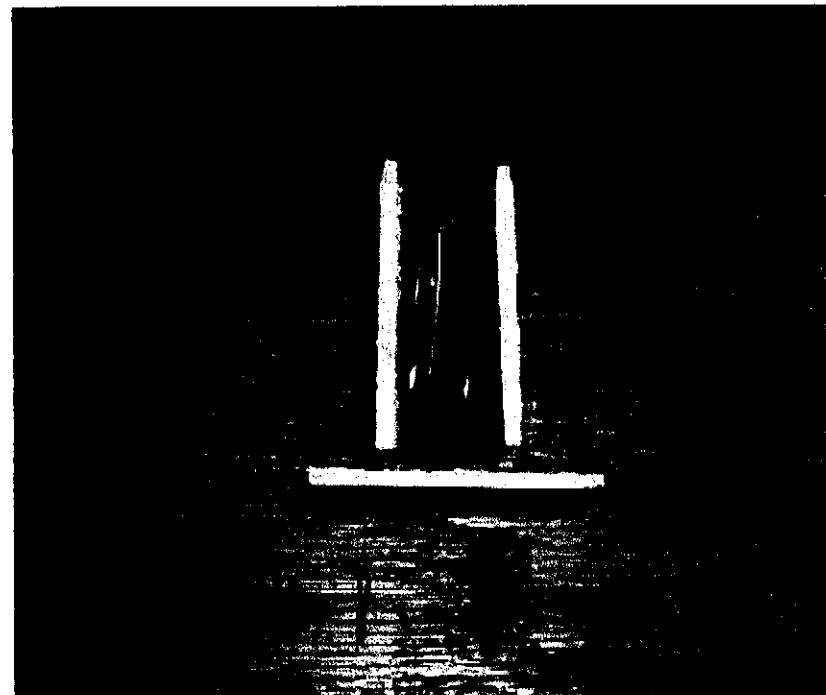
Project Number:  
5797

**Test Setup Photographs:**

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



Photograph 1: Radiated Emissions – Flat

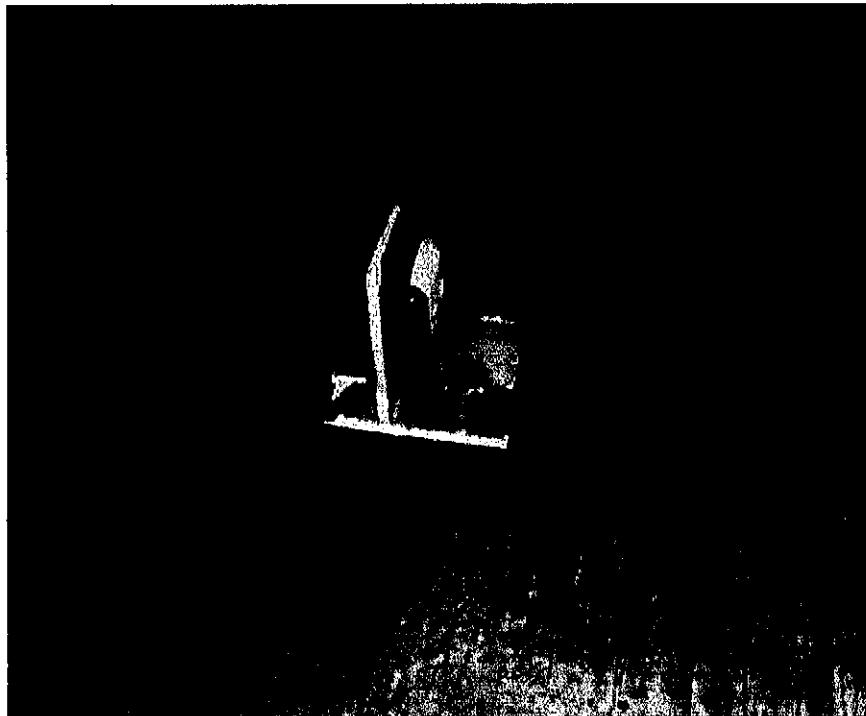


Photograph 2: Radiated Emissions – Horizontal

**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 Δ  
1.58 MHz  
-.12 dB

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

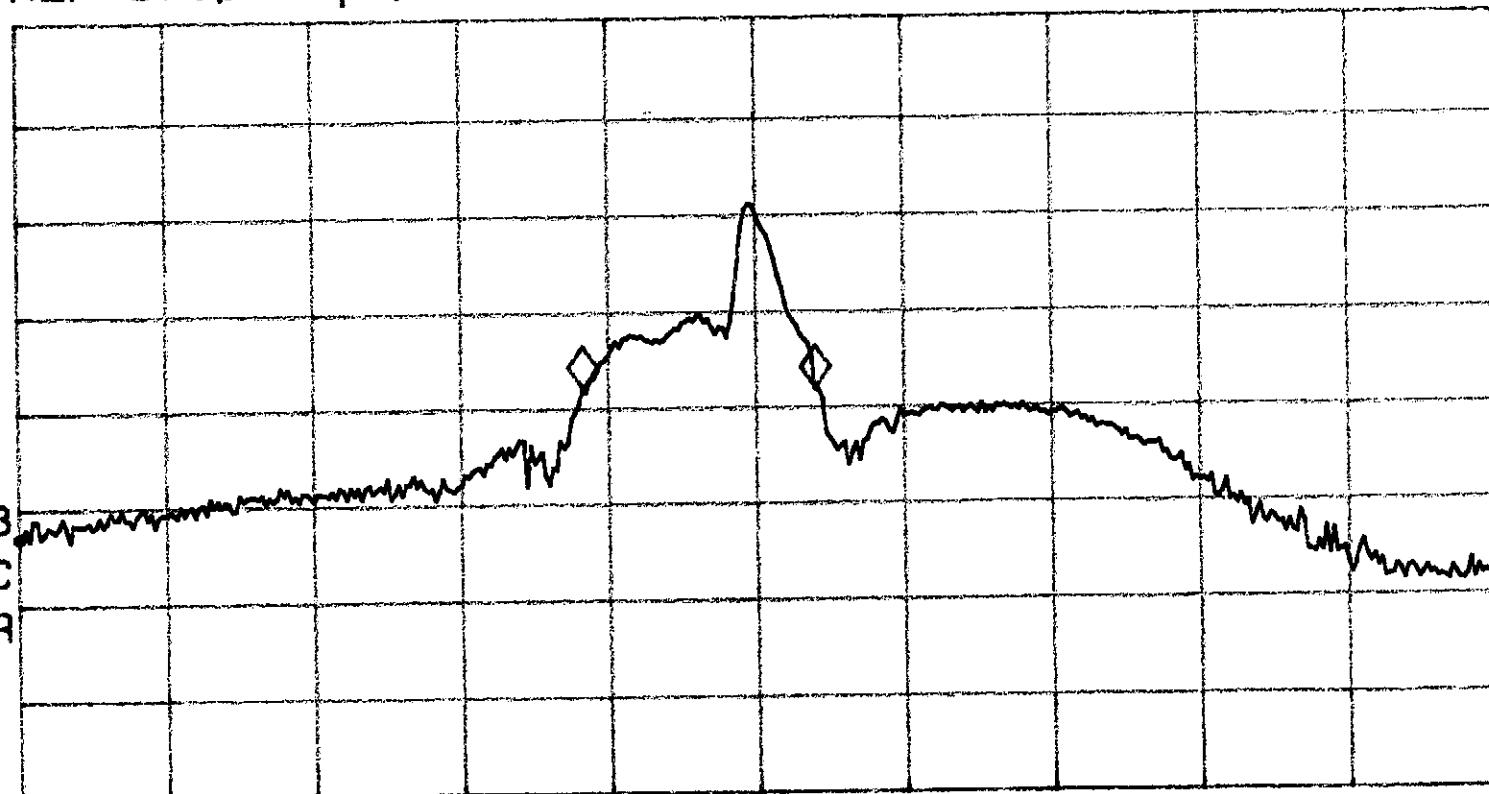
MARKER  
NORMAL

MARKER  
△

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB

VA SB  
SC FC  
ACORR



CENTER 315.00 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 10.00 MHz

SWP 20.0 msec

SELECT  
1 2 3 4

MARKER 1  
ON OFF

More  
1 of 3

osition: vertical Ant: vertical 2.5 m

min

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

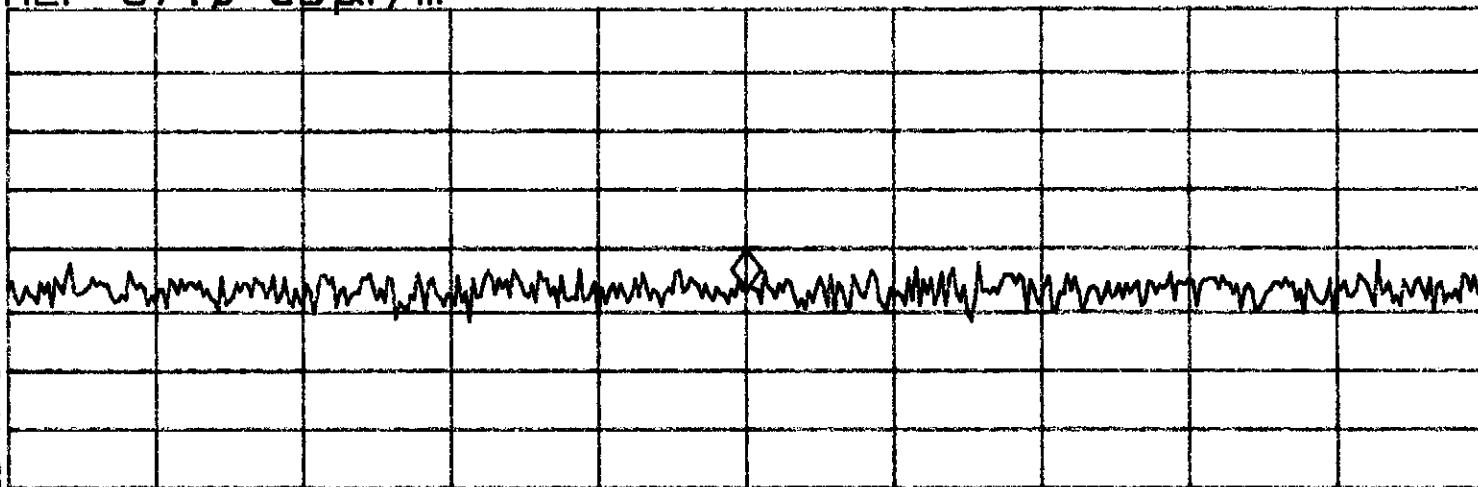
START  
FREQ

CENTER  
314.689 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 314.689 MHz  
49.95 dB $\mu$ V/m

STOP  
FREQ

LOG REF 97.0 dB $\mu$ V/m



CF STEP  
AUTO MAN

SWEEP  
LOG LIN

WA SB  
SC FC  
ACORR

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 ANT. 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

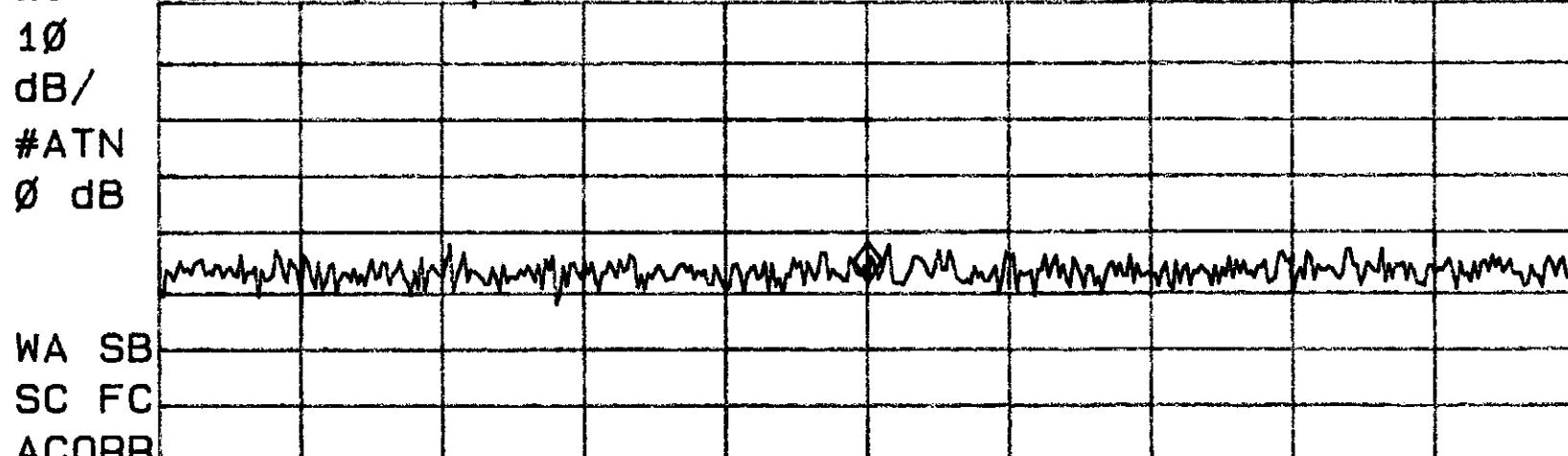
START  
FREQ

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

WA SB  
SC FC  
ACORR

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

More  
1 of 2

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

06:44:40 JUL 12, 2005

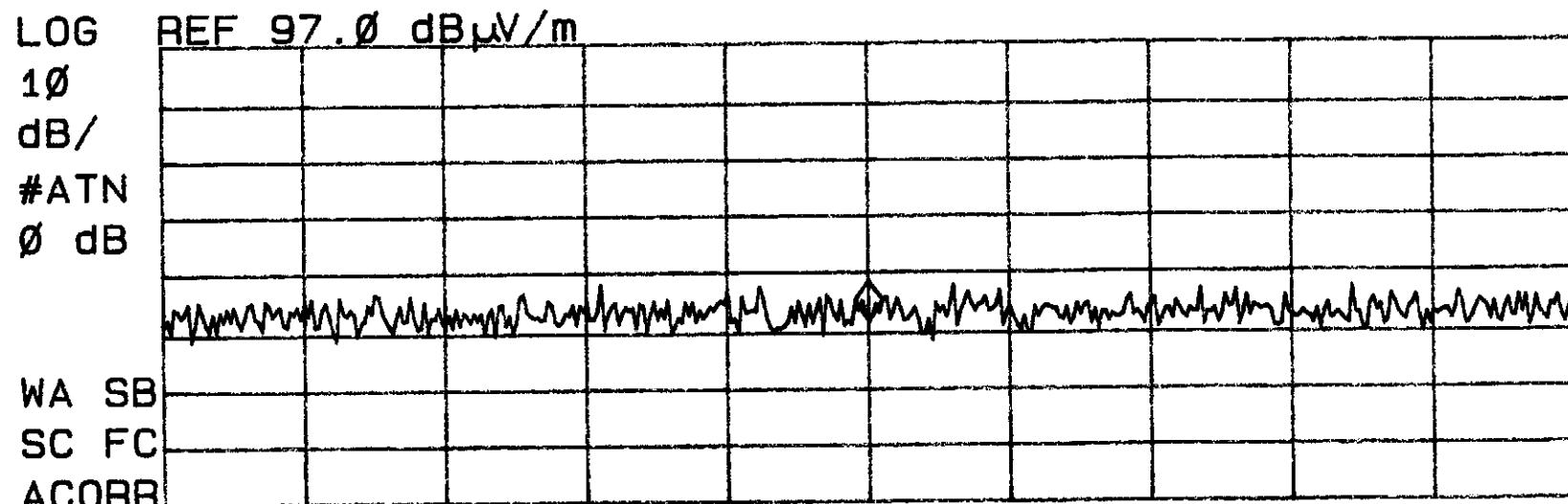
Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	
1	314.701575	62.6	58.6	33.8	CENTER
2	630.118850	46.8	40.9	34.5	FREQ

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



CENTER 314.702 MHz SPAN 5.000 MHz  
IF BW 120 kHz AVG BW 300 kHz SWP 20.0 msec

osition: Horizontal ANT. Vertical 2.5 m

mini ~~90~~  
90

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

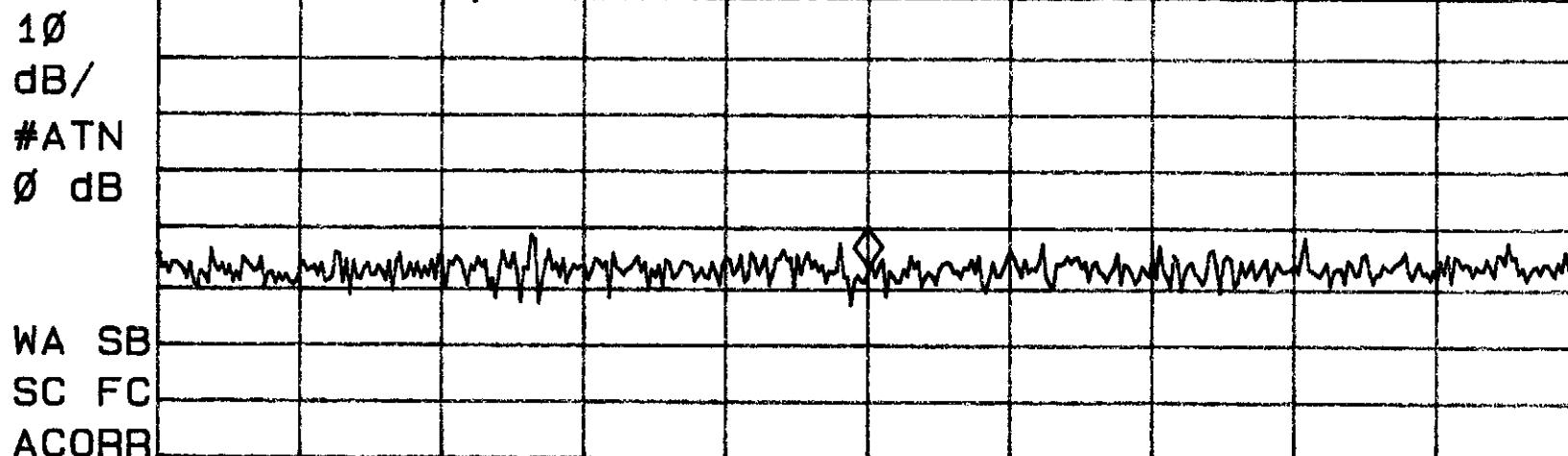
MARKER

TUNE  SPN

CENTER  
315.018 MHz

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

LOG REF 97.0 dB $\mu$ V/m



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

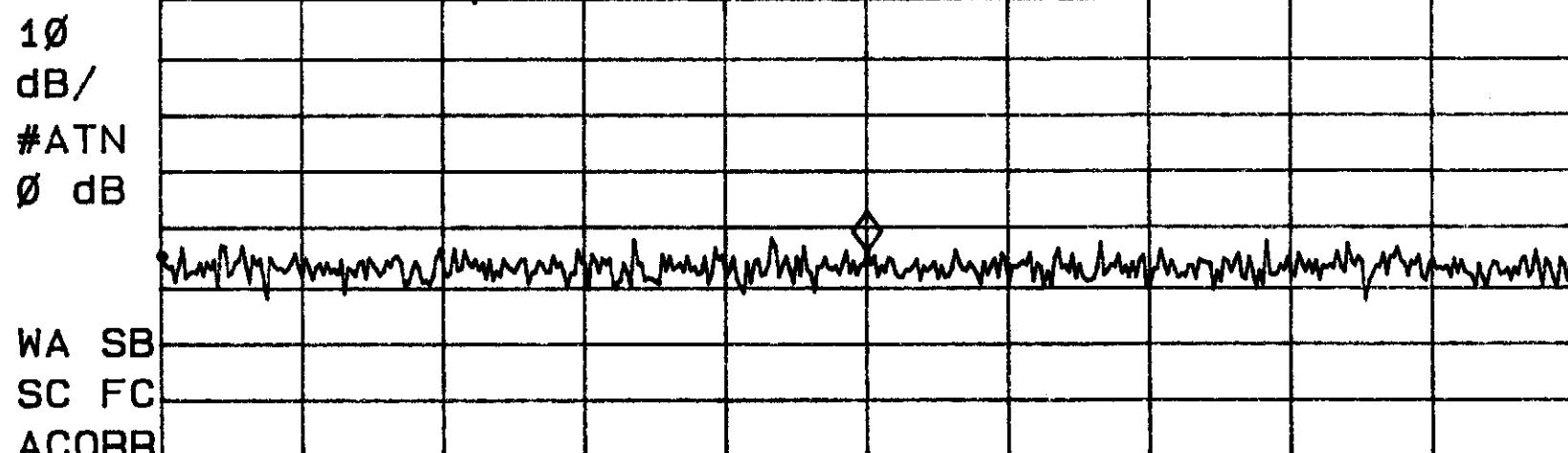
40 deg.

315MHz

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  
FREQCENTER  
314.968 MHzACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 314.968 MHz  
52.73 dB $\mu$ V/mSTOP  
FREQLOG REF 97.0 dB $\mu$ V/mCF STEP  
AUTO MANSWEEP  
LOG LINWA SB  
SC FC  
ACORRMore  
1 of 2

CENTER 314.968 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 5.000 MHz

SWP 20.0 msec

position: Flat

315 MHz

Ant: Horizontal 1m

min 0 deg

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

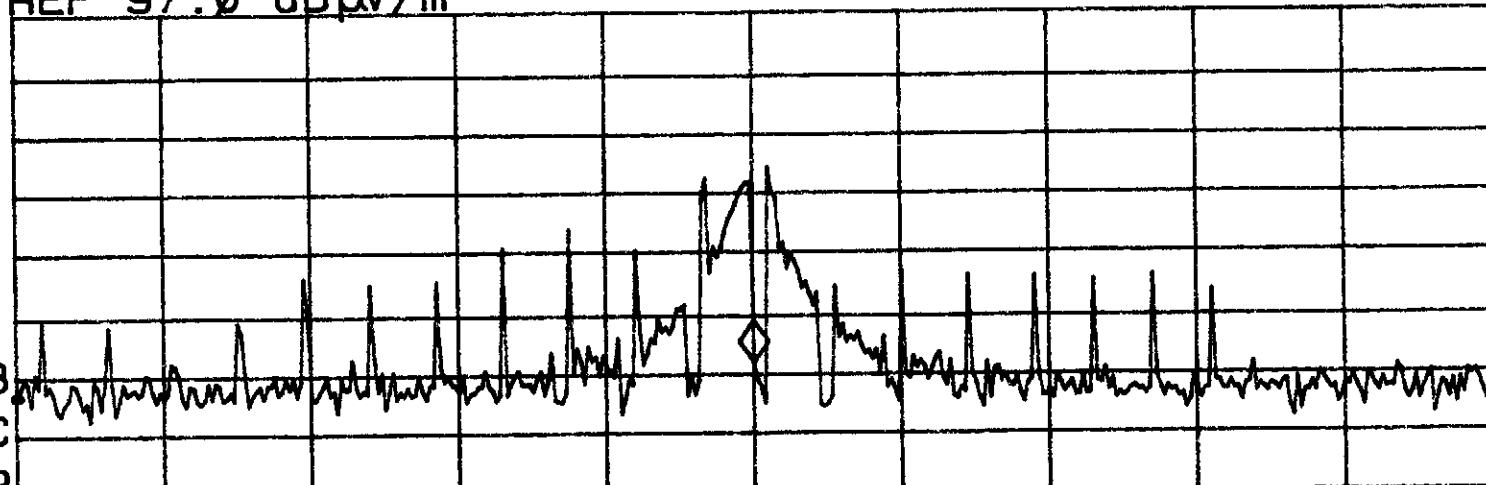
38.49 dB $\mu$ V/m

**EDIT**  
**LIST**

LOG 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 314.983 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 5.000 MHz

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  
 FREQ LIST

SIG LIST  
ON OFF

SIGNAL NUMBER

1

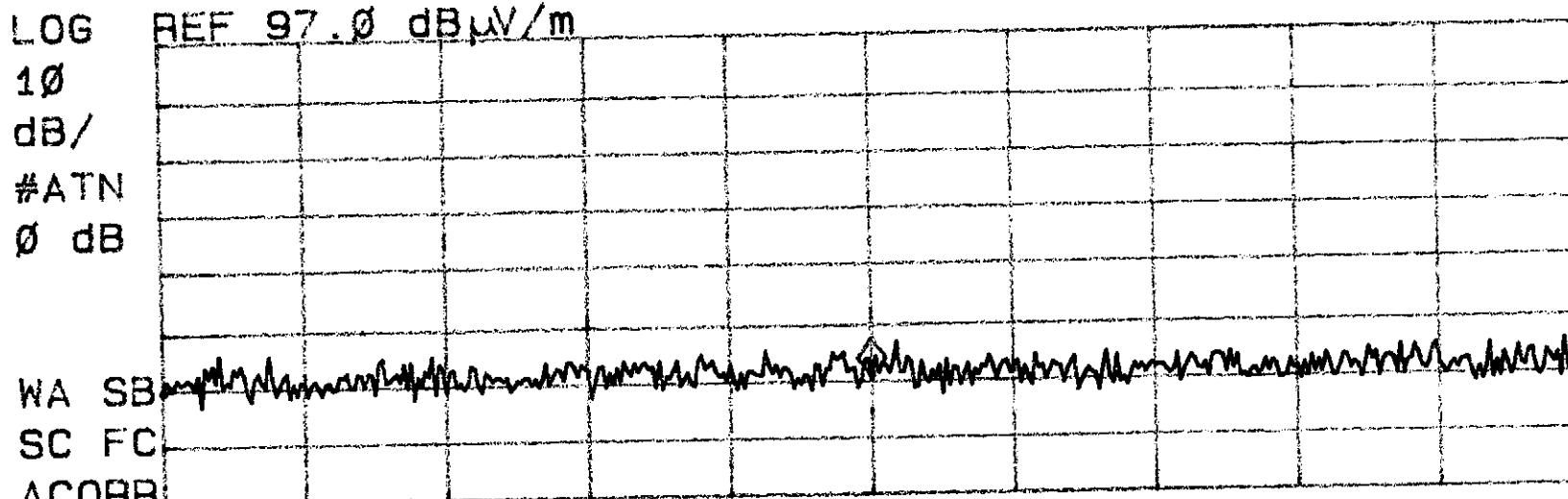
ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKA 1.25988 GHz

36.99 dB $\mu$ V/m

EDIT  
LIST



Save/Rcl  
List

VIEW ▲  
OFF

More  
2 of 3

CENTER 1.25988 GHz SPAN 10.00 MHz  
IF BW 120 kHz AVG BW 300 kHz SWP 20.0 msec

3.5 mHz

position:Horizontal

ANT: Vertical

08:22:23 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	SELECT
1	1574.835950	53.7	50.6	40.6	FRM LIST
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	SIG LIST

ON OFF

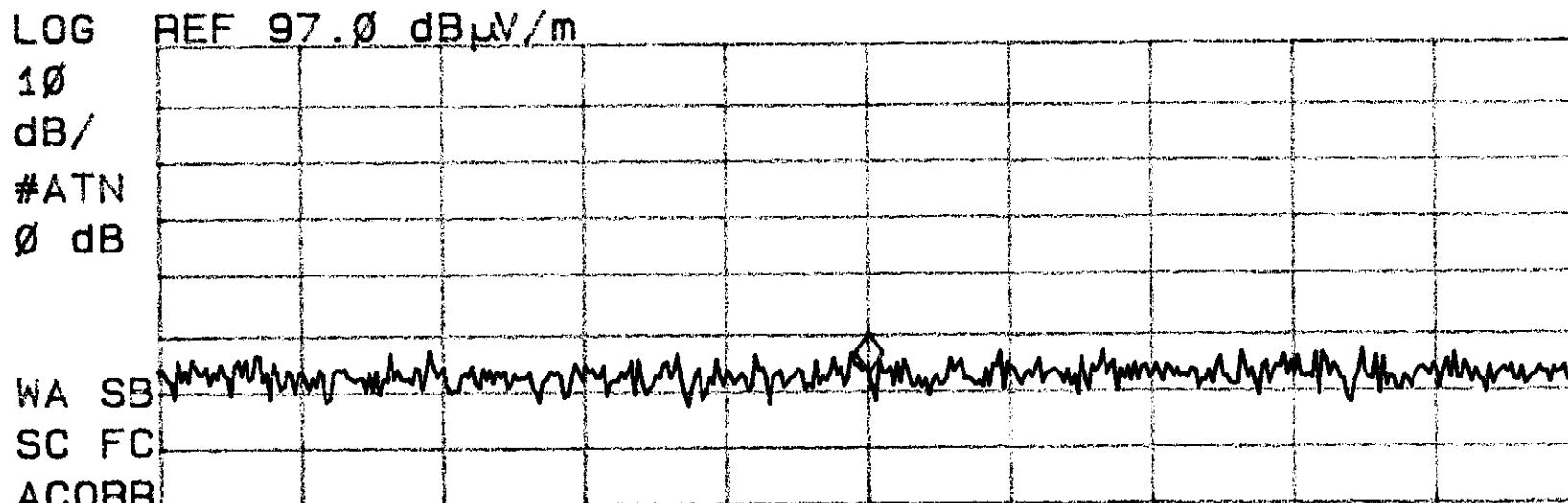
SIGNAL NUMBER

1

ACTV DET: PEAK

MEAS DET: PEAK QP AVG  
MKR 1.57484 GHz  
39.68 dB $\mu$ V/m

EDIT  
LIST



Save/Rcl  
List

VIEW  $\Delta$   
OFF

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

ANT1/Horizontal

08: 16: 47 JUL 13, 2005

	Signal Freq (MHz)	PK Amp	QP Amp	AV Amp	SELECT
1	1259.870150	46.9	41.3	34.0	FRM LIST
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	SIG LIST
5	2834.762550	53.3	48.1	40.0	ON OFF

SIGNAL NUMBER

1

ACTV DET: PEAK

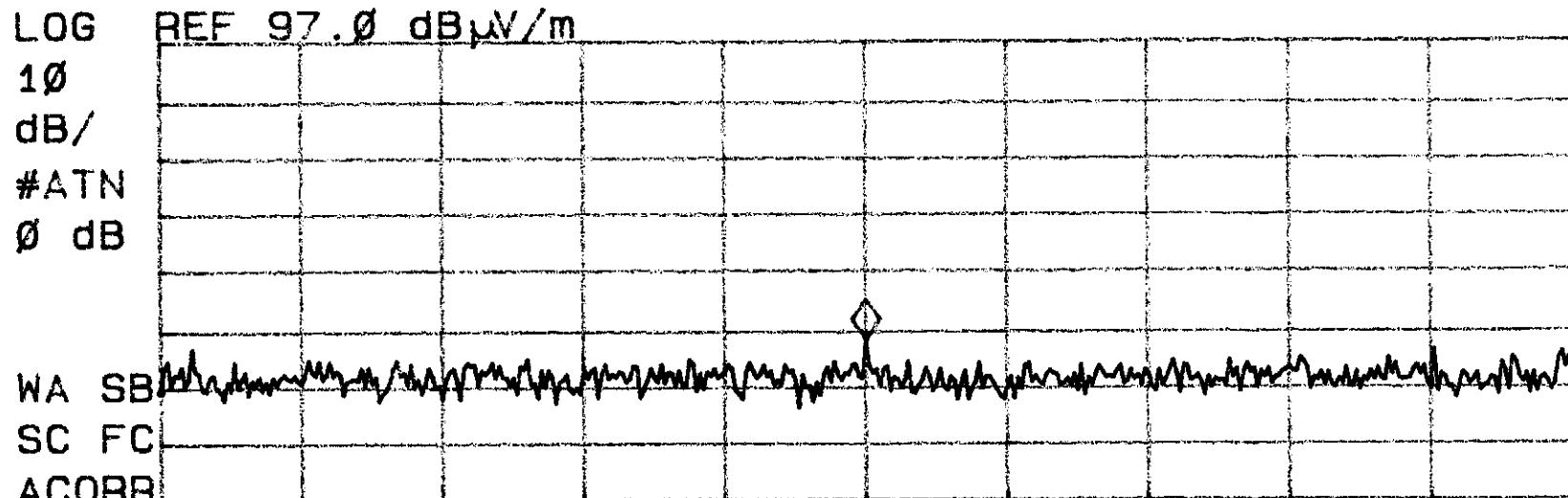
MEAS DET: PEAK QP AVG

EDIT

MKR 1.25987 GHz

LIST

44.86 dB $\mu$ V/m



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

315mHz

on - Lxx 'Revert' \

Ant' 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**

WA SB  
SC FC  
ACORR

**VIEW**  $\Delta$   
**OFF**

CENTER 1.57483 GHz SPAN 10.00 MHz  
IF BW 120 kHz AVG BW 300 kHz SWP 20.0 msec  
>10mV on 8tron: Vertical ANT: Vertical

**More**  
**2 of 3**

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

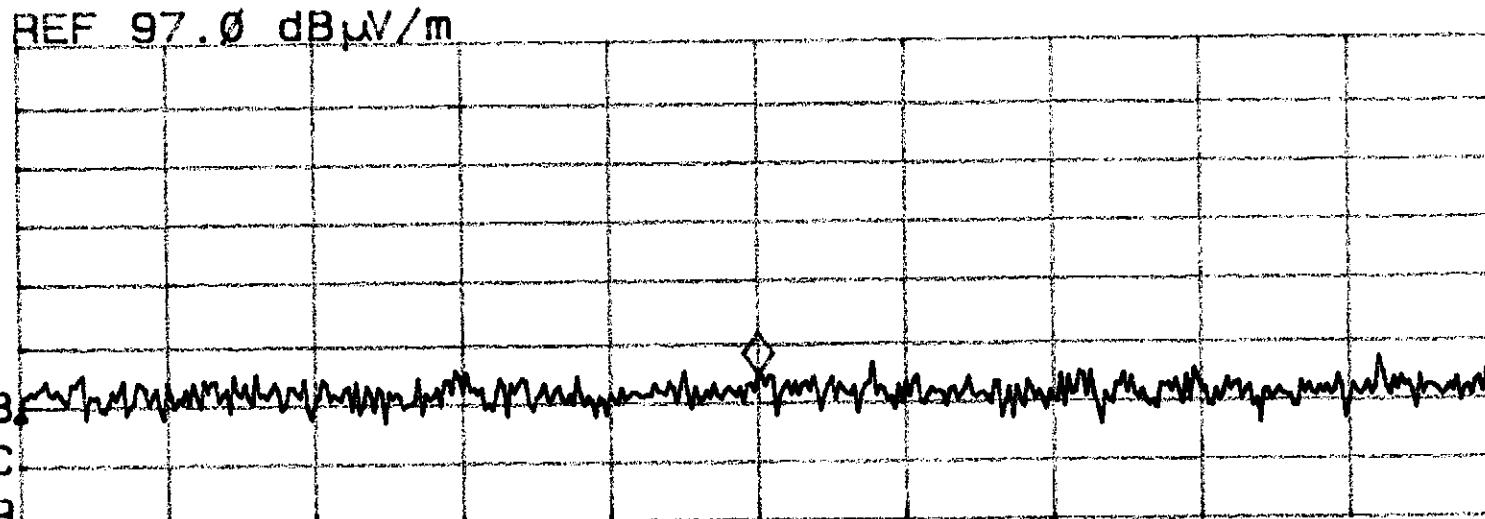
MEAS DET: PEAK QP AVG

MKA 1.25989 GHz

41.27 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 1.25989 GHz  
IF BW 120 kHz AVG BW 300 kHz SWP 20.0 msec  
sirnll on:1... 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

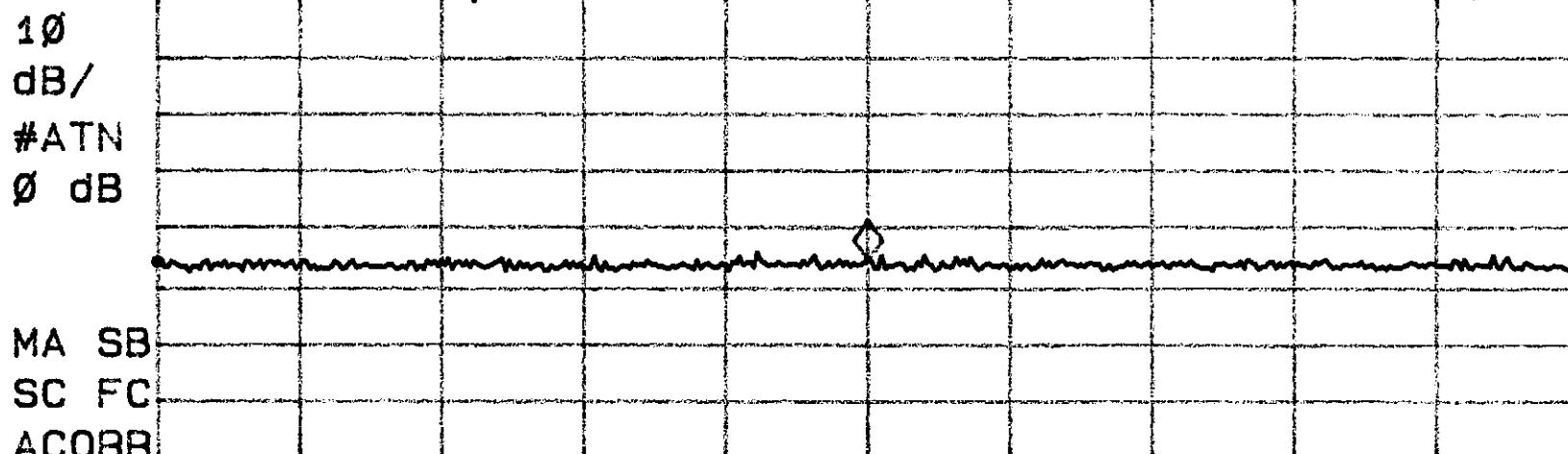
1

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



Save/Rcl  
List

VIEW ▲  
OFF

MA 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

21cmH<sub>a</sub>

ANT position: Flat

ANT' Horizontal..1

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

**The Genie Company**  
Standard Genie Transmitter

Project Number:  
5797

**Radiated Emissions Test Data – 390 MHz**

13 pages of data sheets to follow.

position: ~~Horizontal~~ Horizontal 2 90 deg.  
390 MHz

14:24:02 JUL 12, 2005

MARKER  $\Delta$   
2.00 MHz  
.86 dB

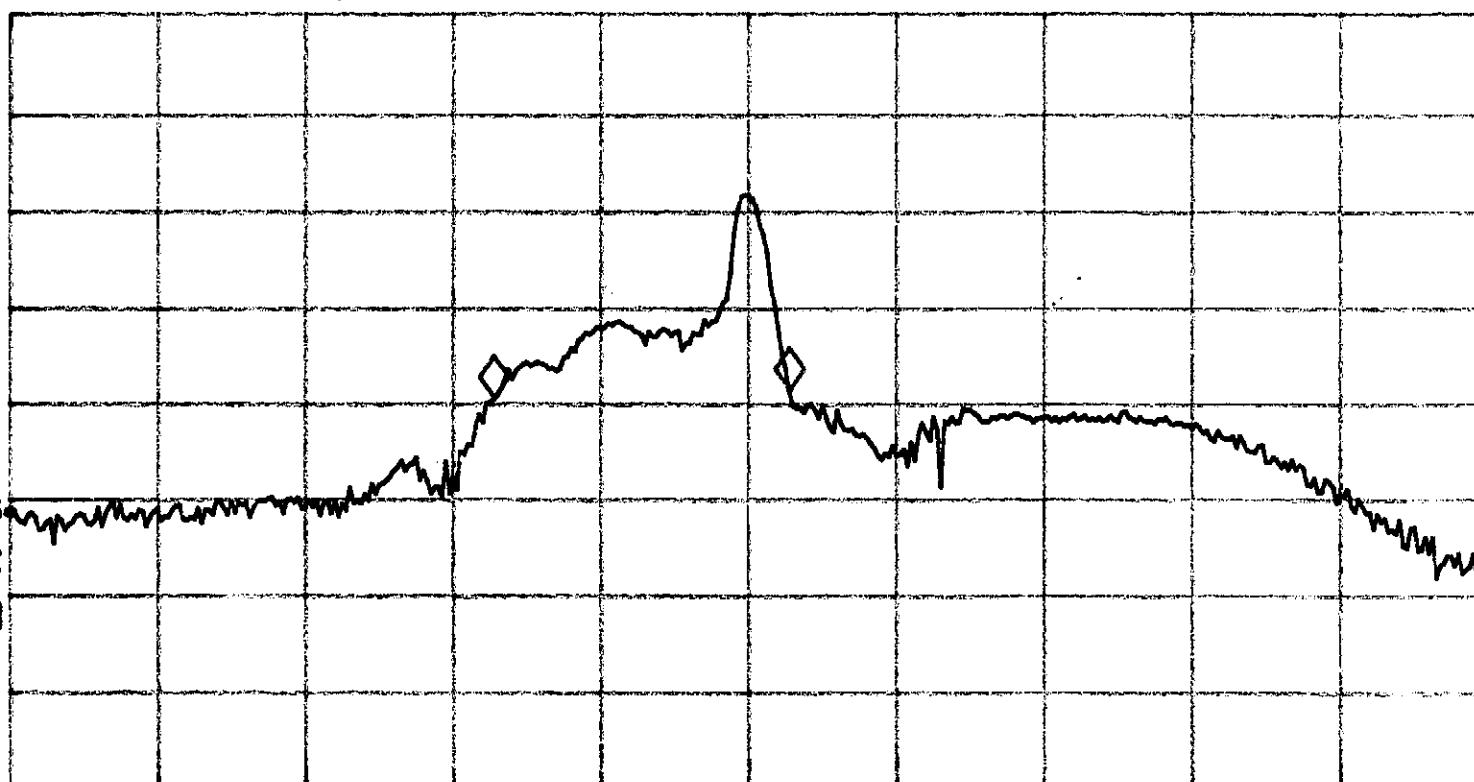
ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 2.00 MHz  
.86 dB

MARKER  
NORMAL

MARKER  
 $\Delta$

LOG REF 97.0 dB $\mu$ V/m

10  
dB/  
#ATN  
0 dB



VA SB  
SC FC  
ACORR

MARKER AMPTD

SELECT  
1 2 3 4

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 AN1: 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 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 780.352 MHz

#IF BW 100 KHz

AVG BW 30 KHz

SPAN 1.000 MHz

SWP 20.0 msec



Position: Horizontal ANL: 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/

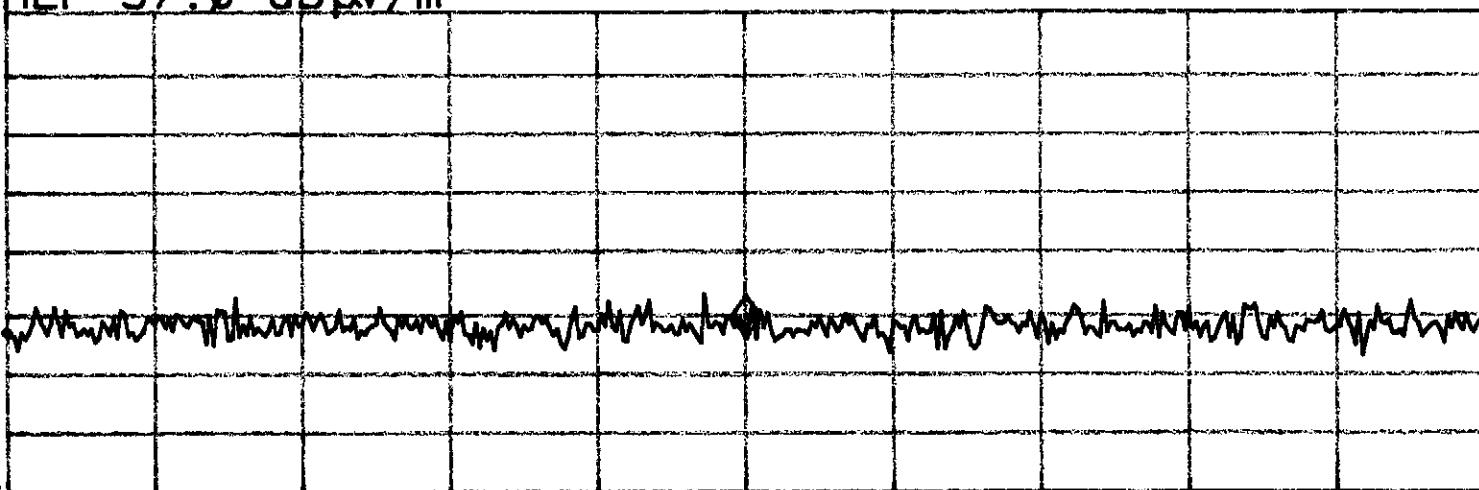
#ATN

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 min: 0 deg.  
90 MHz

08:12:27 JUL 12, 2005

HP

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

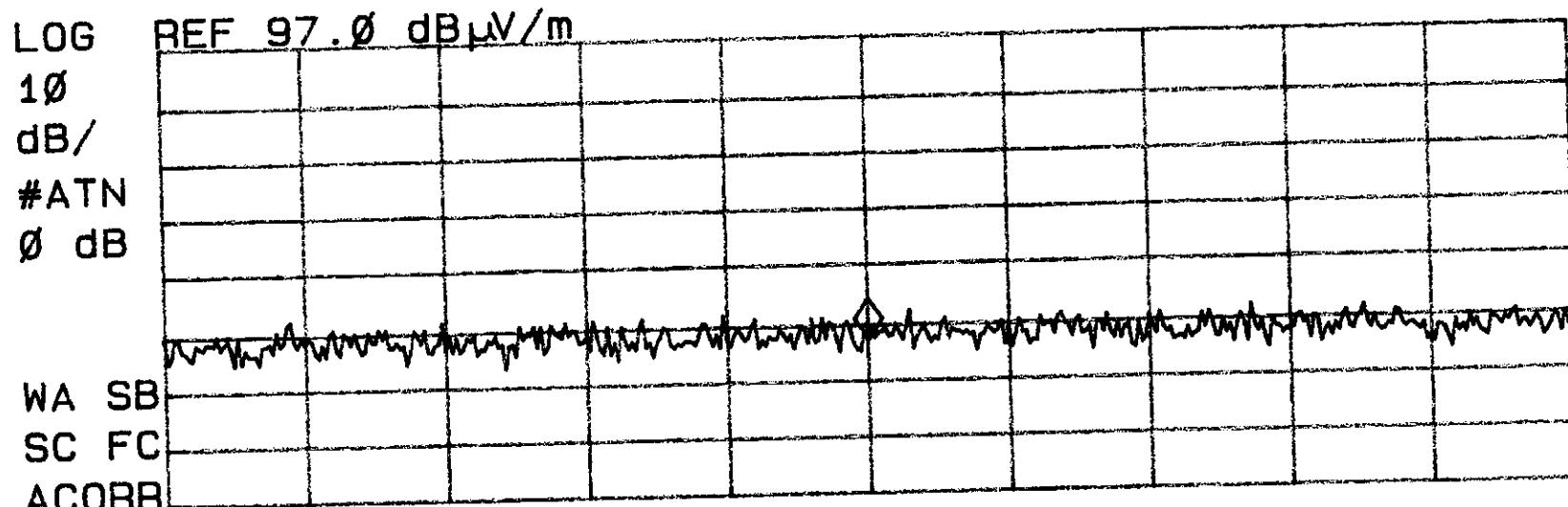
SELECT  
FRM LIST

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



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  
90 mHz

Ant: Vertical 1M

min

0 deg

07:56:10 JUL 12, 2005

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

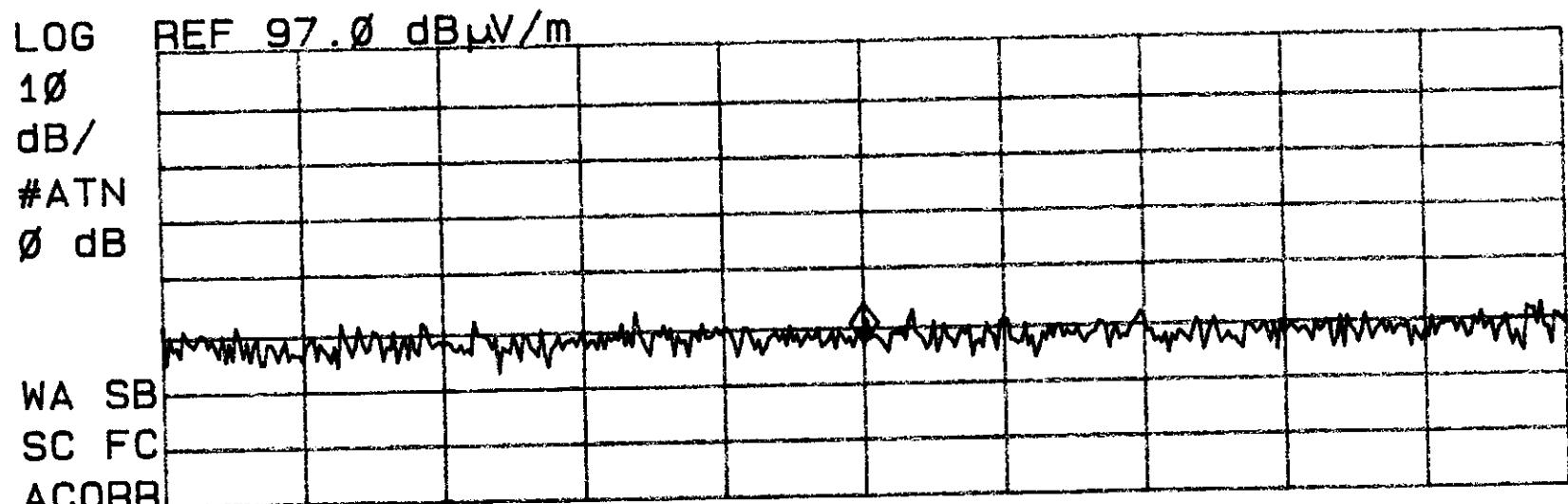
SELECT  
FRM LIST

SIG LIST  
ON OFF

SIGNAL NUMBER  
2

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 780.06 MHz  
43.63 dB $\mu$ V/m

EDIT  
LIST



Save/Rcl  
List

VIEW  $\Delta$   
OFF

More  
2 of 3

CENTER 780.06 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 10.00 MHz

SWP 20.0 msec

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

07:23:15 JUL 12, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp
1	389.836350	72.6	65.9	39.9
2	780.097800	50.8	45.2	38.7

**SELECT**  
**FRM LIST**

**SIG LIST**  
ON OFF

SIGNAL NUMBER

2

ACTV DET: PEAK

MEAS DET: PEAK QP AVG  
MKR 780.10 MHz  
45.74 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 780.10 MHz

IF BW 120 kHz

AVG BW 300 kHz

SPAN 10.00 MHz

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	SELECT
2	2341.142400	52.0	46.4	38.3	FRM LIST
3	2731.321450	60.6	56.1	44.3	
4	3511.446700	51.4	46.0	39.7	SIG LIST

ON OFF

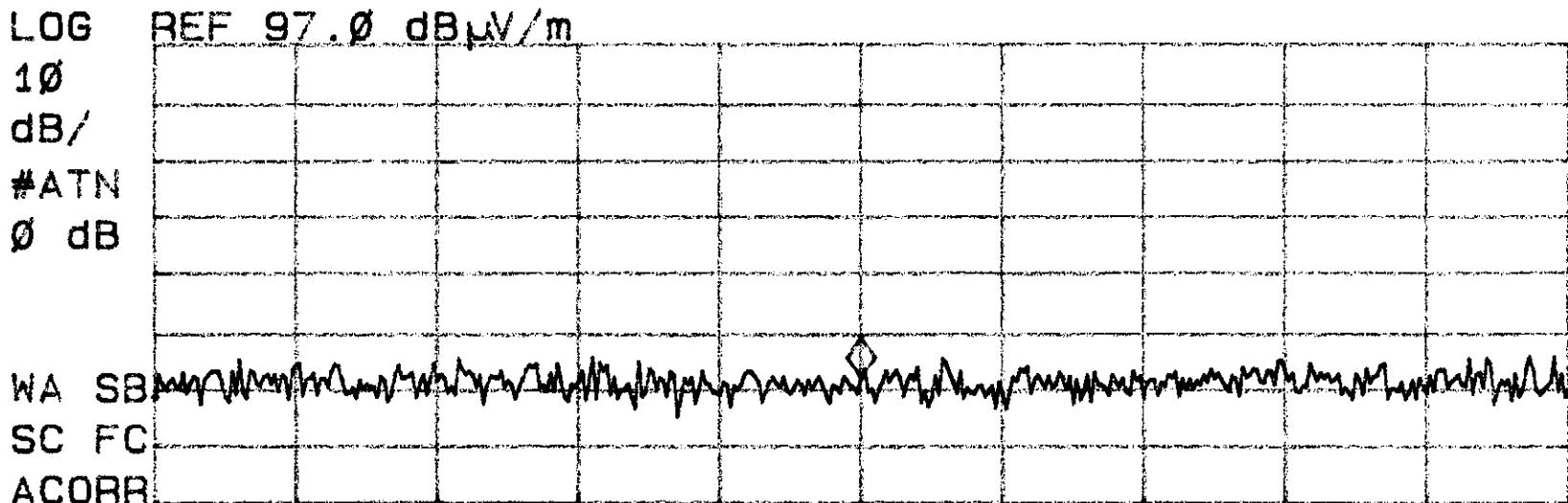
SIGNAL NUMBER

1

ACTV DET: PEAK

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

EDIT  
LIST



Save/Rcl  
List

VIEW △  
OFF

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

ANT: 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

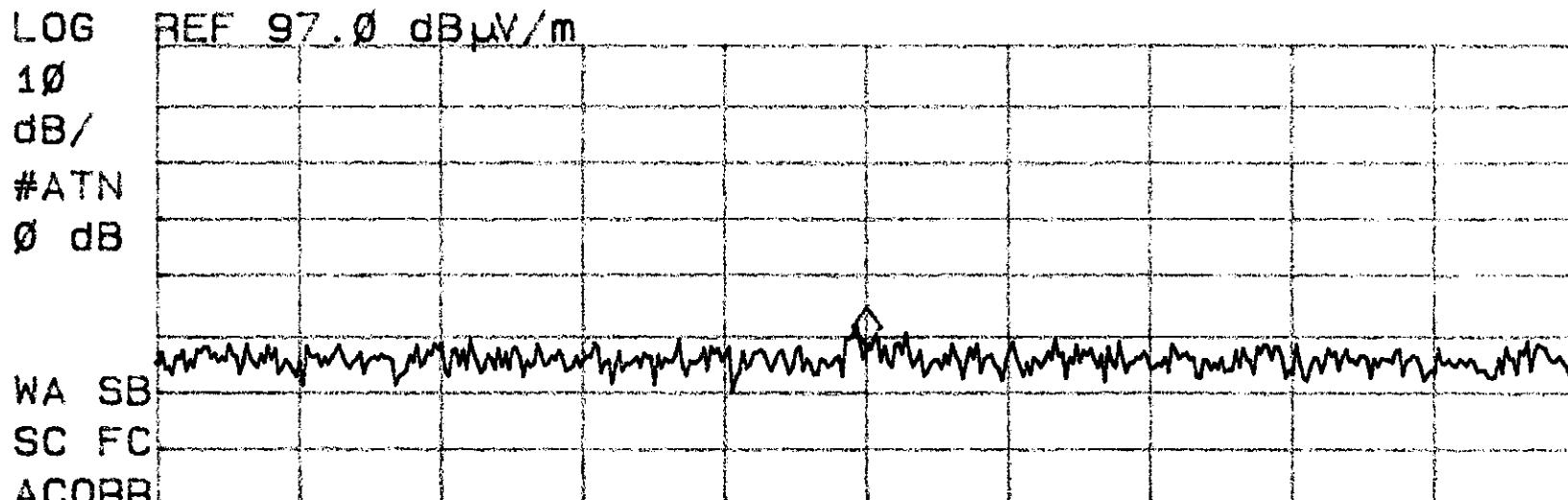
SIGNAL NUMBER

1

ACTV DET: PEAK

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

EDIT  
LIST



Save/Rcl  
List

VIEW ▲  
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 ▲  
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

excitation: Horizontal

ANT: Vertical

08:51:44 JUL 13, 2005

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	SELECT
1	1170.595150	46.5	40.8	33.7	FRM LIST
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	SIG LIST

ON OFF

SIGNAL NUMBER

1

ACTV DET: PEAK

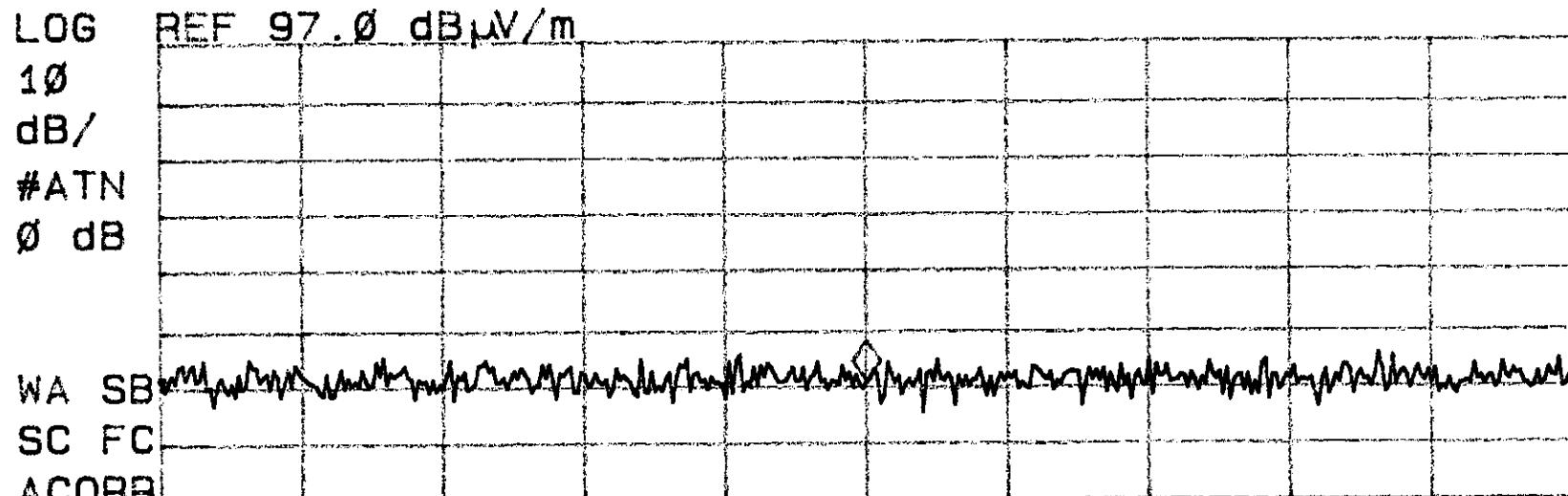
MEAS DET: PEAK QP AVG

EDIT

MKR 1.17060 GHz

LIST

37.64 dB $\mu$ V/m



Save/Rcl  
List

VIEW △  
OFF

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**

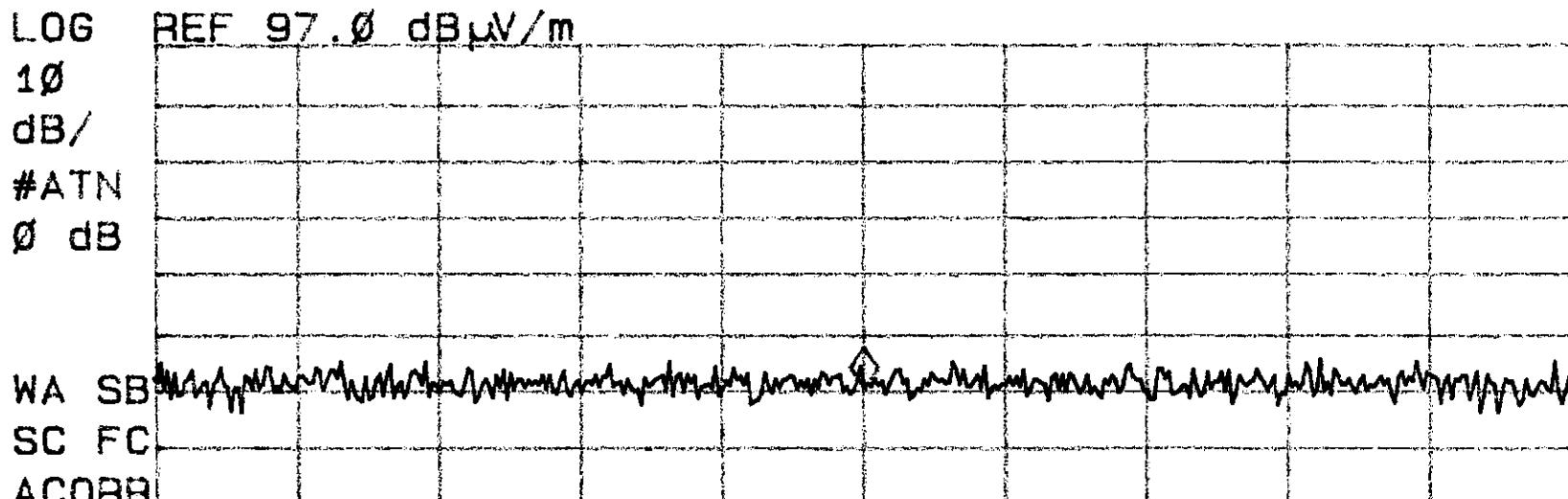
SIGNAL NUMBER

1

ACTV DET: PEAK

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

**EDIT**  
**LIST**



**Save/Rcl**  
**List**

**VIEW** ▲  
**OFF**

**More**  
**2 of 3**

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

390 mHz Polarized

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** ▲  
**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

390mHz

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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