TÜV PRODUCT SERVICE

EMC EMISSION - TEST REPORT
UNITED STATES STANDARD 47 CFR PART 15, SUBPART B

Test Report File No.	:	**9264-06**	Date of Issue:	08 June 1999
Model / Serial No.	:	**RS321 / ----**		
Product Type	:	Handheld Transmitter		
Applicant	:	RADIO SHACK		
Manufacturer	:	RADIO SHACK		
License holder	:	RADIO SHACK		
Address	:	100 Throckmorton Street, Suite 1300		
	:	Fort Worth, TX 76102		
Test Result	:	■ **Positive**	☐ **Negative**	
Test Project Number Reference(s)	:	**9264-06**		
Total pages - Test Report	:	11		

NOTE: All test equipment used during testing is calibrated and traceable to NIST.

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

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DIRECTORY - EMISSIONS
Test Report

Technical Documentation

Appendices

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EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to the following regulations:

☐ - EN 50081-1 / 1991

☐ - EN 55011 / 1991 ☐ - Group 1 ☐ - Group 2
☐ - Class A ☐ - Class B

☐ - EN 55013 / 1990

☐ - EN 55014 / 1987 ☐ - Household appliances and similar
☐ - Portable tools
☐ - Semiconductor devices

☐ - EN 55014 / A2:1990

☐ - EN 55014 / 1993 ☐ - Household appliances and similar
☐ - Portable tools
☐ - Semiconductor devices

☐ - EN 55015 / 1987
☐ - EN 55015 / A1:1990
☐ - EN 55015 / 1993

☐ - EN 55022 / 1987 ☐ - Class A ☐ - Class B

☐ - EN 55022 / 1998 ☐ - Class A ☐ - Class B

☐ - BS
☐ - VCCI ☐ - Class A ITE ☐ - Class B ITE

■ - 47 CFR Part 15, Subpart B

- ■ - 207(a)
- ■ - 209(a)
- ■ - 231(b)(c)
- ■ - Duty cycle

☐ - AS/NZS 3548: 1995 ☐ - Class A ☐ - Class B

☐ - CISPR 11 (1990) ☐ - Group 1 ☐ - Group 2
☐ - Class A ☐ - Class B

☐ - CISPR 22 (1998) ☐ - Class A ☐ - Class B

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Environmental Conditions In The Laboratory:

	Actual
Temperature:	: 23 °C
Relative Humidity:	: 50 %
Atmospheric Pressure:	: 100.0 kPa

Power Supply Utilized:

Power supply system : Battery

Symbol Definitions:

■ - Applicable
☐ - Not Applicable

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Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

The *CONDUCTED EMISSIONS (INTERFERENCE VOLTAGE)* measurements were performed at the following test location:

■ - Test not performed - see remarks

☐ - SR-2, Shielded Room, 12' x 24' x 10', Metal Chamber
☐ - SR-3, Shielded Room, 12' x 20' x 8', Metal Chamber
☐ - SR-4, Shielded Room, 10' x 17' x 8', Copper Screen Chamber
☐ - SR-5, Shielded Room, 16' x 28' x 15', Metal, Semi-Anechoic Chamber
☐ - CSR-1, Shielded Room, 10' x 7' x 7', Metal Chamber

Test Equipment Used :

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Due Date
NM-7A, NM-17/27, NM-37/57, NM-67, CCA-7, & H/P 9836 HP-1B Computer	156, 162-166	Automated RFI Measurement System (ARMS), NO. 1	Eaton/Ailtech	(multiple)	
NM-17/27, NM-37/57, CA-7, and H/P 9826 Computer	168, 170, 177, 178	Automated RFI Measurement System (ARMS), NO. 2	Eaton/Ailtech	(multiple)	
H/P Spectrum Analyzer, Model 8568B; Display Section RF Analyzer Section; H/P 85650A, Quasi-Peak Adapter H/P Computer System, Model 310 with HP 85869A Software	187, 188	Automated RFI Measurement System (ARMS)	Various	(multiple)	
LISN-2, 25 A	413	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	7	
LISN-2, 25 A	--	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	7	
FCC-LISN-50-25-2	553	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	112	
FCC-LISN-50-25-2	552	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	113	
8012-50-R-12-BNC	266	LISN, 50 µH/50 Ω/0.1 µF	Solar Electronics Co.	--	
9252-50-R-24-BNC	458	LISN, 50 µH /250 µH/50 Ω/ 0.25 µF	Solar Electronics Co.	941719	
MDS-21	277	Absorbing Clamp	Rohde & Schwarz	821023	
ESHS 20	428	EMI Test Receiver	Rohde & Schwarz	837055/001	
ESHS 30	459	EMI Test Receiver	Rohde & Schwarz	832354/004	
CAT-20	598	20 dB Attenuator	Mini-Circuits	--	
CAT-20	615	20 dB Attenuator	Mini-Circuits	--	

Remarks: One year calibration cycle for all test equipment.

EUT battery operated.

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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *RADIATED EMISSIONS (ELECTRIC FIELD)* measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location :

■ - Test not performed - see remarks

☐ - Roof (Small Open Area Test Site) (Calibration Due Date: 28 May 2000)
☐ - Canyon #1 (10- and 30-Meter Open Area Test Site), Carroll Canyon, San Diego (Calibration Due Date: 21 July 1999)
☐ - Canyon #2 (3- and 10-Meter Open Area Test Site), Carroll Canyon, San Diego (Calibration Due Date: 20 May 2000)

Testing was performed at a test distance of :

☐ - 3 meters
☐ - 10 meters
☐ - 30 meters

Test Equipment Used :

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
NM-37/57A	420	OATS measurement set	Eaton/Ailtech	0561-09261	
CCA-7	373	(Roof)		0773-03117	
NM-37/57	171	OATS measurement set	Eaton/Ailtech	0709-82078	
CCA-7	172	(Canyon)		0187-0322	
HFH 2-Z2	208	Antenna, Loop	Rohde & Schwarz	880	
3110B	491	Antenna, Biconical	EMCO	9508-2	
CBL6111	460	Antenna, Bilog	Chase	1013	
CBL6111	461	Antenna, Bilog	Chase	1291	
3146	242	Antenna, Log Periodic Dipole	EMCO	1597	
3146	243	Antenna, Log Periodic Dipole	EMCO	106X	
3146	244	Antenna, Log Periodic Dipole	EMCO	1063	
7405	570	Loop Probes	EMCO	9104-1959	
8566B	404	Spectrum Analyzer	Hewlett Packard	2311A02209	
85662B	406	Spectrum Analyzer Display	Hewlett Packard	2309A04682	
ESVS 30	427	EMI Test Receiver	Rohde & Schwarz	830350/006	
ESVS 30	466	EMI Test Receiver	Rohde & Schwarz	833825/003	

Remarks: One year calibration cycle for all test equipment.

Pre-scan in shielded room detected no measurable emissions from 30 MHz - 1 GHz.

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Emissions Test Conditions: 20 dB Bandwidth

The 20 dB Bandwidth measurements were tested at the following test location :

■ - Test not performed - see remarks

■ - SR-2, Shielded Room, 12’ x 24’ x 10’, Metal Chamber
☐ - SR-3, Shielded Room, 12’ x 20’ x 8’, Metal Chamber
☐ - SR-4, Shielded Room, 10’ x 17’ x 8’, Copper Screen Chamber

Test Equipment Used :

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
CBL6111	460	Antenna, Bilog	Chase	1013	N/A
8566B	744	Spectrum Analyzer	Hewlett Packard	2618A02913	02/00

Remarks: One year calibration cycle for all test equipment.

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Emissions Test Conditions: Duty Cycle

The Duty Cycle measurements were tested at the following test location :

■ - Test not performed - see remarks

■ - SR-2, Shielded Room, 12’ x 24’ x 10’, Metal Chamber
☐ - SR-3, Shielded Room, 12’ x 20’ x 8’, Metal Chamber
☐ - SR-4, Shielded Room, 10’ x 17’ x 8’, Copper Screen Chamber

Test Equipment Used :

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
2440	415	Oscilloscope	Tektronix	B013020	05/00
8566B	744	Spectrum Analyzer	Hewlett Packard	2618A02913	02/00

Remarks: One year calibration cycle for all test equipment.

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Equipment Under Test (EUT) Test Operation Mode - Emissions Tests :

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

☐ - Standby

☐ - Test Program (H - Pattern)

☐ - Test Program (Color Bar)

☐ - Test Program (Customer Specified)

☐ - Practice Operation

■ - Normal Operating Mode

☐ - _____

Configuration of the equipment under test:

☐ - See Constructional Data Form in Appendix B - Page B2

☐ - See Product Information Form(s) in Appendix B - Page B2

The following peripheral devices and interface cables were connected during the testing:

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - unshielded power cable

☐ - unshielded cables

☐ - shielded cables MPS.No.: _____

☐ - customer specific cables

☐ - _____

☐ - _____

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Emissions Test Results:

Conducted Emissions, 10/150/450 kHz - 30 MHz

☐ - PASS ☐ - FAIL ■ - NOT APPLICABLE

EUT battery operated.

Radiated Emissions (Electric Field), 30 MHz - 1000 MHz

■ - PASS ☐ - FAIL ☐ - NOT APPLICABLE

Remarks: Pre-scan in shielded room detected no measurable emissions from 30 MHz - 1 GHz.

20 dB Bandwidth

■ - PASS ☐ - FAIL ☐ - NOT APPLICABLE

Remarks:

Duty Cycle

■ - PASS ☐ - FAIL ☐ - NOT APPLICABLE

Remarks:

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GENERAL REMARKS:

NOTE: All photographs are representative of setup for maximum emissions.

SUMMARY:

All tests according to the regulations cited on page 3 were

■ - Performed

☐ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements cited on page 3.

☐ - **Does not** fulfill the general approval requirements cited on page 3.

Statement of Measurement Uncertainty

The data and results referenced in this document are true and accurate. The measurement uncertainty is calculated to be ±2 dB for conducted emissions and ±4 dB for radiated emissions.

Equipment Received Date: 02 June 1999

Testing Start Date: 02 June 1999

Testing End Date: 02 June 1999

- TÜV PRODUCT SERVICE, INC. -

Responsible Engineer:

Dave Marshall
(EMC Test Engineer)

Responsible Engineer:

Mary Washington
(EMC Engineer)

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Technical Documentation

Test Data Sheets

and

Test Setup Drawing(s)

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

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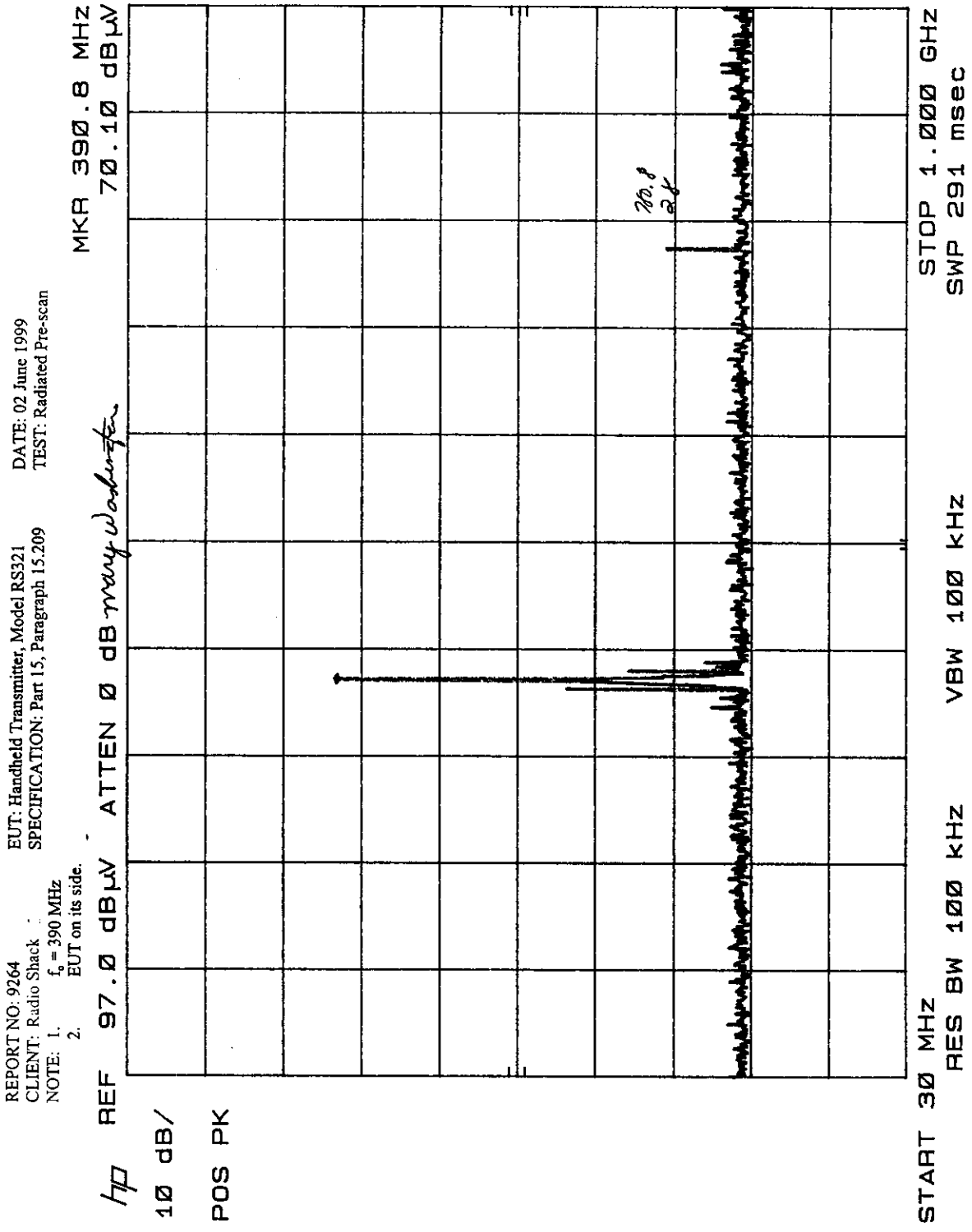
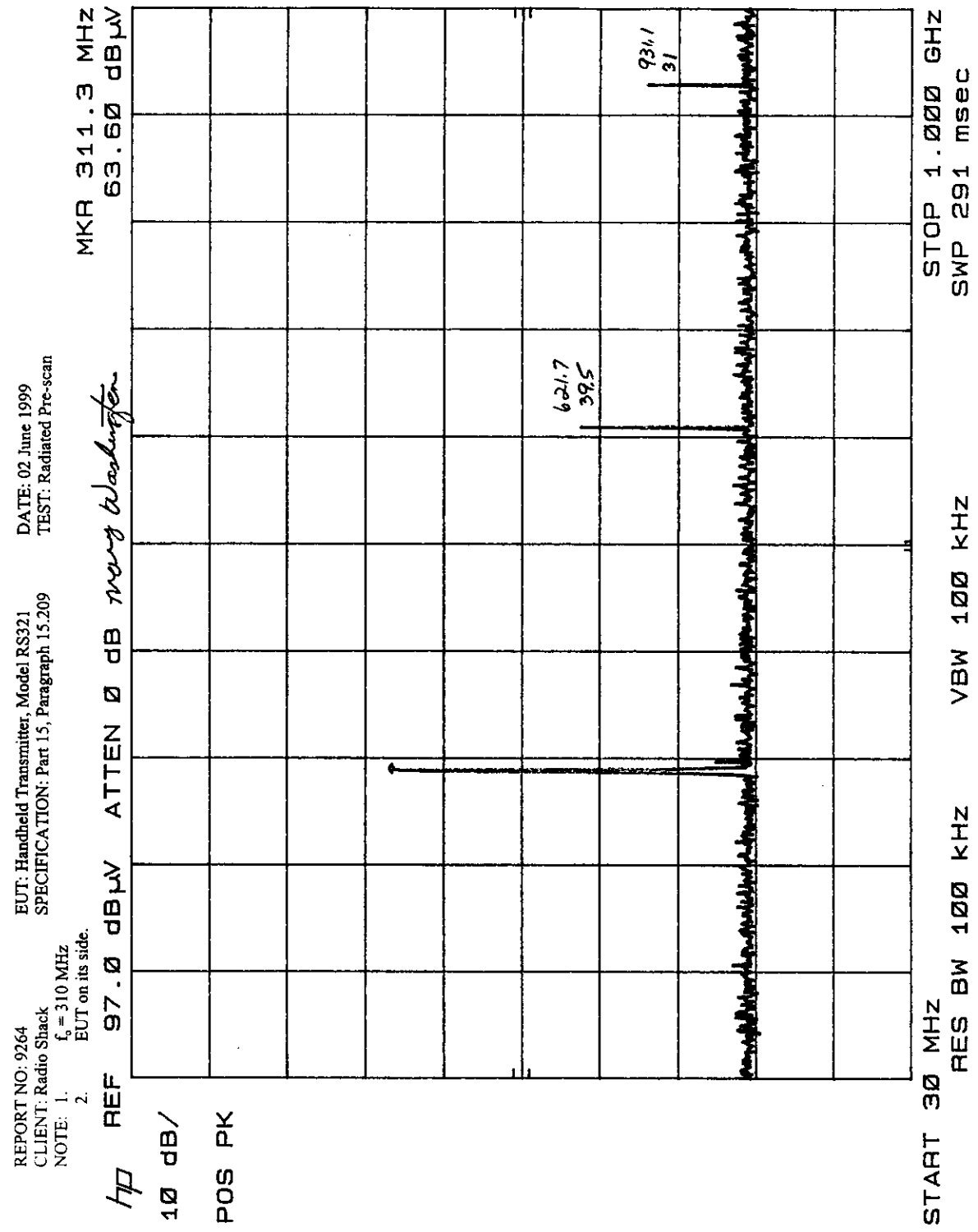


TÜV PRODUCT SERVICE



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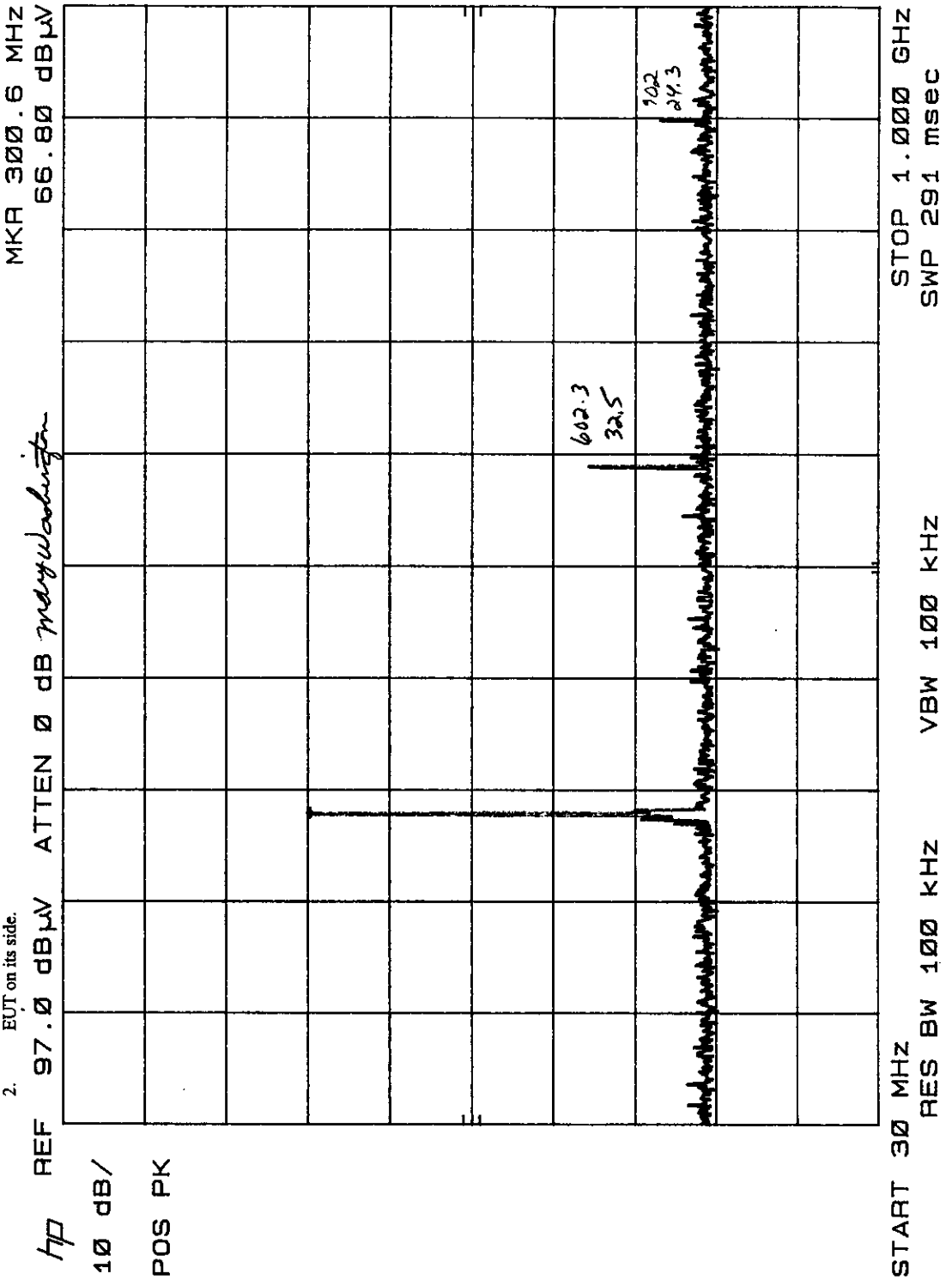
TÜV PRODUCT SERVICE

REPORT NO: 9264 EUT: Handheld Transmitter, Model RS321 DATE: 02 June 1999
CLIENT: Radio Shack SPECIFICATION: Part 15, Paragraph 15.209 TEST: Radiated Pre-scan
NOTE: 1. f_o = 300 MHz
2. EUT on its side.



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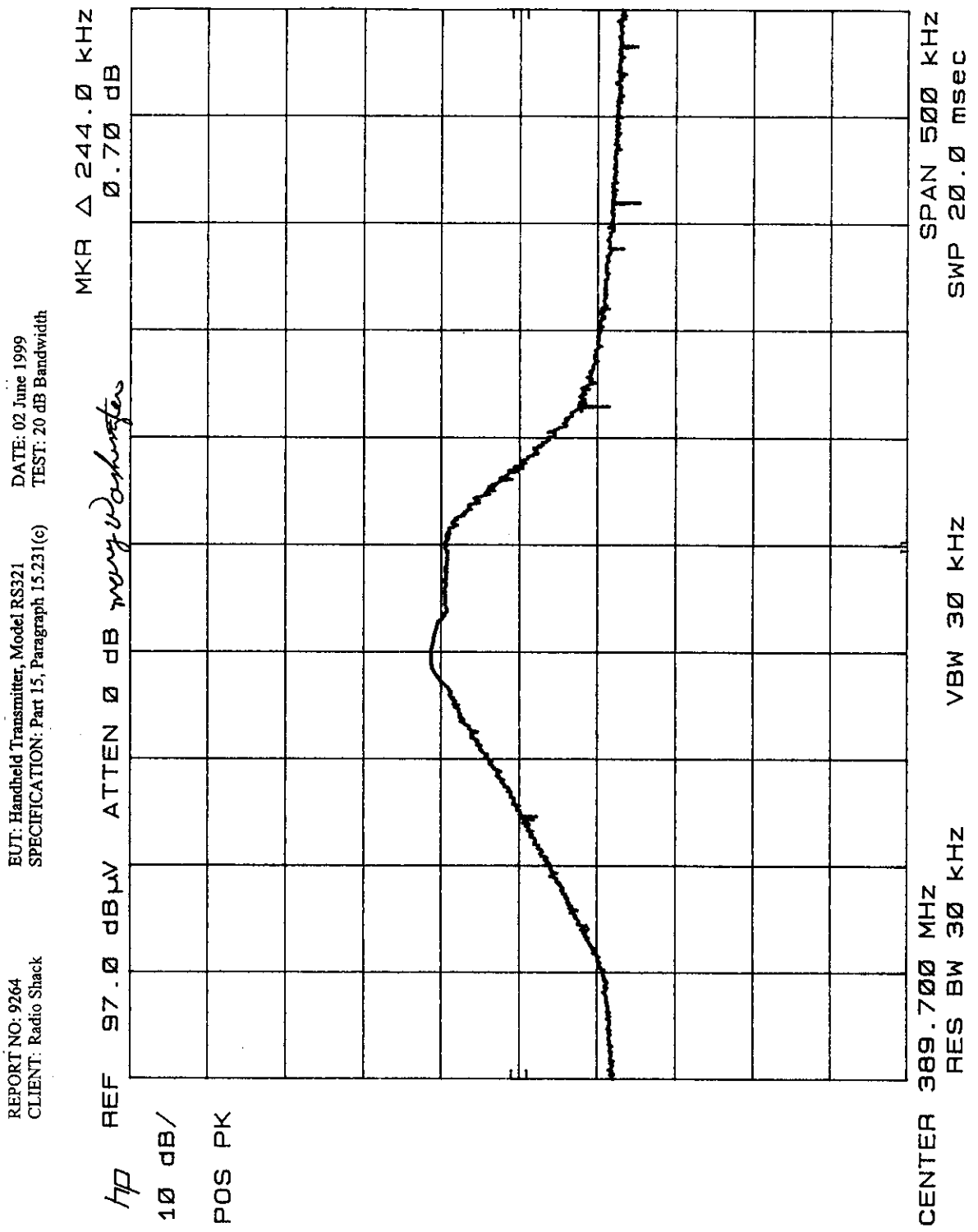

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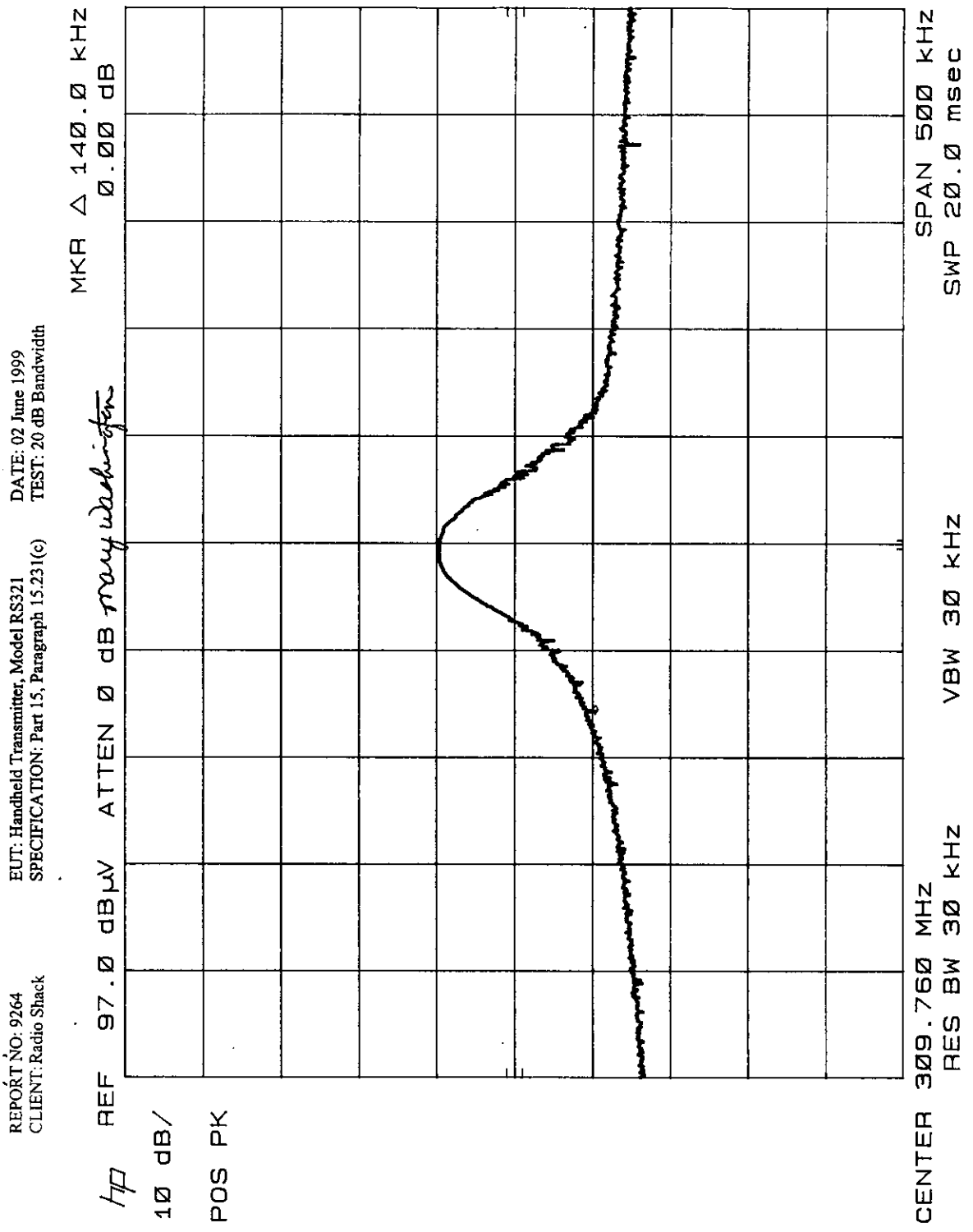

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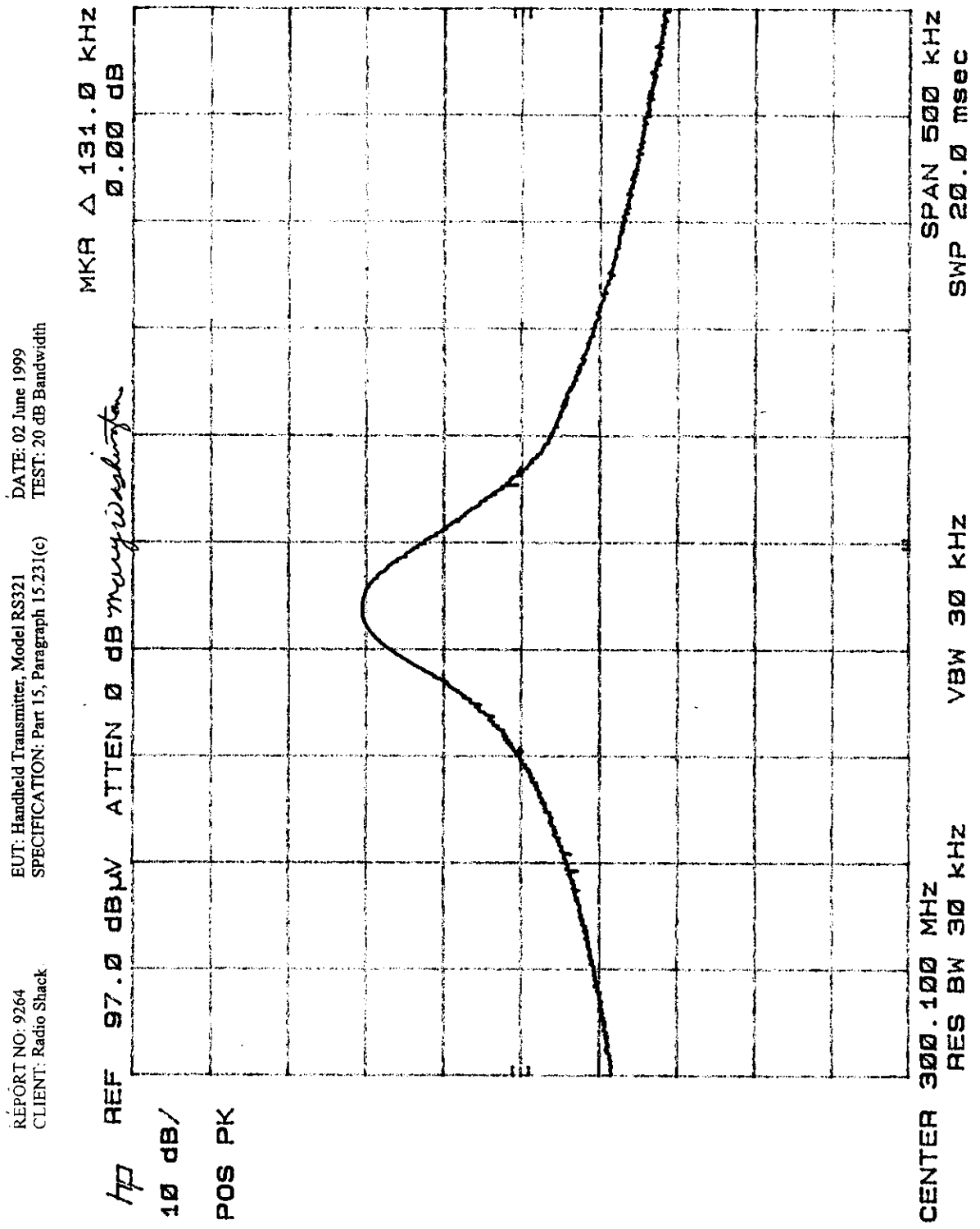

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

TÜV PRODUCT SERVICE

REPORT No: S9264 TESTED BY: mw

CUSTOMER: Clicker Corporation/Radio Shack

E U T: Hand Held Transmitter, RS321

EUT MODE: Continous Transmit

DATE: 2-Jun-99

NOTES: Duty Cycle= 30%
RBW and VBW = 100 kHz below 1 GHz.
RBW and VBW = 1 MHz above 1 GHz.
No emissions detectable after 3rd harmonic.

SPEC: FCC Part 15, Para. 15.231(b)

TEST DIST: 3 Meters

TEST SITE: 3

BICONICAL: N/A

LOG: 244

OTHER: 453

v.beta

FREQ (MHz)	VERTICAL (dBuv) pk	av	HORIZONTAL (dBuv) pk	av	CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m) pk	av	SPEC LIMIT (dBuV/m) pk	av	MARGIN (dB) pk	av	EUT Rotatio	Antenna Height
300	57.7	47.2	56.2	45.7	17.1	**74.8**	**64.3**	94.6	74.6	-19.8	-10	298	1.8
600	34.3	23.8	33.5	23	22.8	**57.1**	**46.6**	74.6	54.6	-17.5	-8	298	1
900	22.7	12.2	27.2	16.7	27.0	**54.2**	**43.7**	74.6	54.6	-20.4	-11	181	1
1200	24.2	13.7	25.5	15	27.9	**53.4**	**42.9**	74	54	-20.6	-11		

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

TÜV PRODUCT SERVICE

REPORT No: S9264 TESTED BY: mw

CUSTOMER: Clicker Corporation/Radio Shack

E U T: Hand Held Transmitter, RS321

EUT MODE: Continous Transmit

DATE: 2-Jun-99

NOTES: Duty Cycle= 19%
RBW and VBW = 100 kHz below 1 GHz.
RBW and VBW = 1 MHz above 1 GHz.
No emissions detectable after 2nd harmonic.

SPEC: FCC Part 15, Para. 15.231(b)

TEST DIST: 3 Meters

TEST SITE: 3

BICONICAL: N/A

LOG: 244

OTHER: 453

v.beta

FREQ (MHz)	VERTICAL (dBuv) pk	VERTICAL (dBuv) av	HORIZONTAL (dBuv) pk	HORIZONTAL (dBuv) av	CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m) pk	MAX LEVEL (dBuV/m) av	SPEC LIMIT (dBuV/m) pk	SPEC LIMIT (dBuV/m) av	MARGIN (dB) pk	MARGIN (dB) av	EUT Rotatio	Antenna Height
310	58.3	43.9	54.1	39.7	17.1	**75.4**	**61.0**	95.3	75.3	-19.9	-14.3	268	1.5
620	35.1	20.7	32.8	18.4	22.9	**58.0**	**43.6**	75.3	55.3	-17.3	-11.7	268	1
1240	25	10.6	24.7	10.3	28.2	**53.2**	**38.8**	74	54	-20.8	-15.2		
1550	24.6	10.2	24.5	10.1	30.5	**55.1**	**40.7**	74	54	-18.9	-13.3		

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

TÜV PRODUCT SERVICE

REPORT No: S9264 TESTED BY: mw

CUSTOMER: Clicker Corporation/Radio Shack

E U T: Hand Held Transmitter, RS321

EUT MODE: Continous Transmit

DATE: 2-Jun-99

NOTES: Duty Cycle= 16%
RBW and VBW = 100 kHz below 1 GHz.
RBW and VBW = 1 MHz above GHz.
No emissions detectable after 7th harmonic.

SPEC: FCC Part 15, Para. 15.231(b)

TEST DIST: 3 Meters

TEST SITE: 3

BICONICAL: N/A

LOG: 244

OTHER: 453

v.beta

FREQ (MHz)	VERTICAL (dBuv) pk	VERTICAL (dBuv) av	HORIZONTAL (dBuv) pk	HORIZONTAL (dBuv) av	CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m) pk	MAX LEVEL (dBuV/m) av	SPEC LIMIT (dBuV/m) pk	SPEC LIMIT (dBuV/m) av	MARGIN (dB) pk	MARGIN (dB) av	EUT Rotatio	Antenna Height
390	64.1	48.2	59.6	43.7	18.4	**82.5**	**66.6**	99.2	79.2	-16.7	-13	233	1.3
780	31.9	16	40.7	24.8	25.5	**66.2**	**50.3**	79.2	59.2	-13	-8.9	158	1
1170	37.4	21.5	32.2	16.3	27.6	**65.0**	**49.1**	74	54	-8.97	-4.9	265	1
1560	29.7	13.8	22.9	6.98	30.5	**60.2**	**44.3**	74	54	-13.8	-9.7	266	1
1950	27.4	11.5	26.1	10.2	32.7	**60.1**	**44.2**	79.2	59.2	-19.1	-15		
2340	18.7	2.78	21.3	5.38	34.2	**55.5**	**39.6**	74	54	-18.5	-14		

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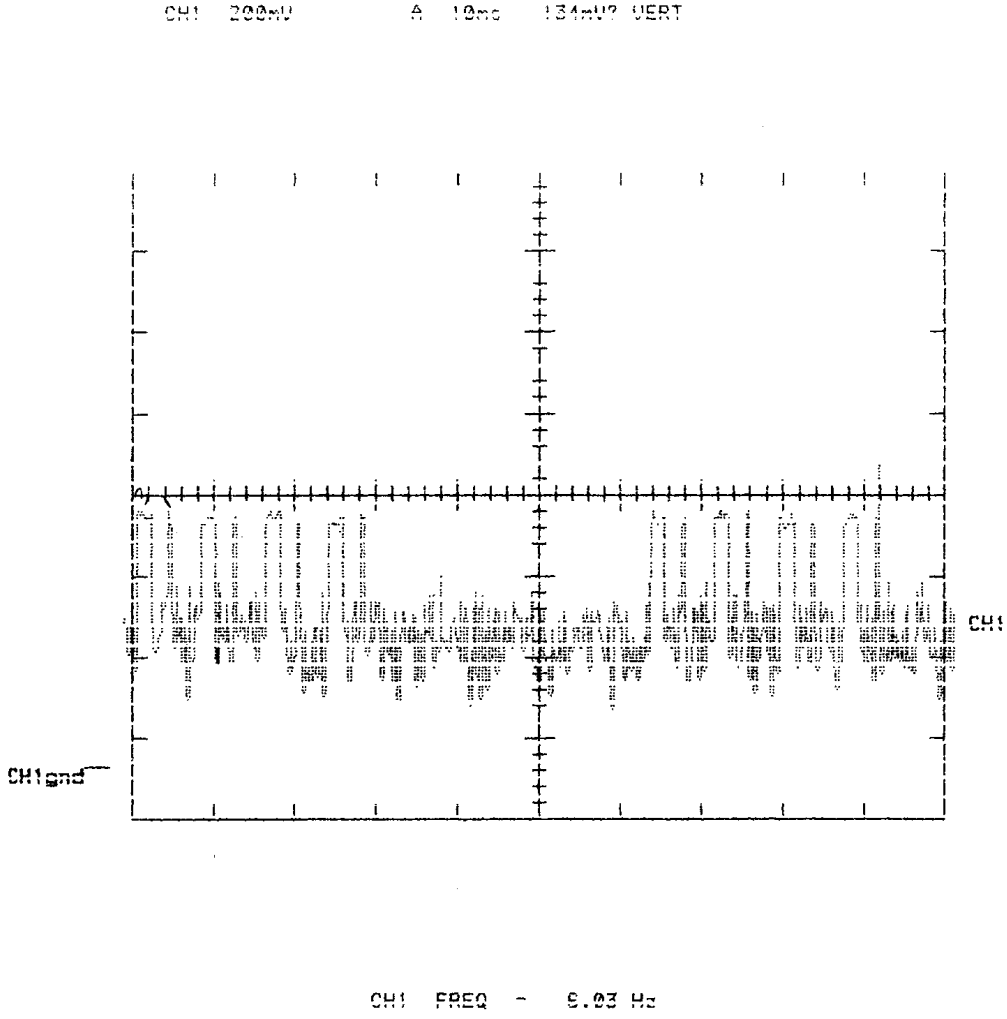
REPORT NO: 9264
CLIENT: Radio Shack
NOTE: 1. f_o= 310 MHz
2. 16/83 = 19%

EUT: Handheld Transmitter, Model RS321
TEST: Duty Cycle Measurement

DATE: 02 June 1999



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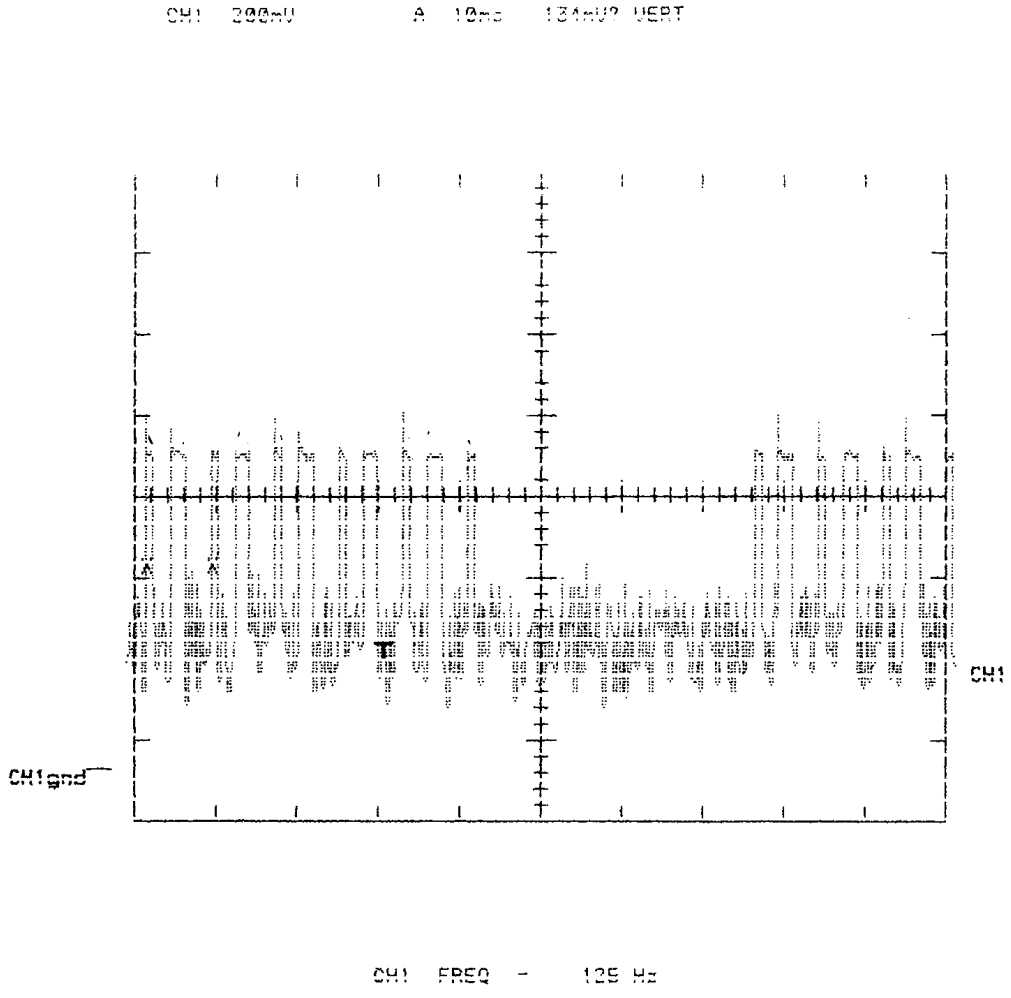
REPORT NO: 9264
CLIENT: Radio Shack
NOTE: 1. f_o = 390 MHz
2. 16/99 = 16%

EUT: Handheld Transmitter, Model RS321
TEST: Duty Cycle Measurement

DATE: 02 June 1999



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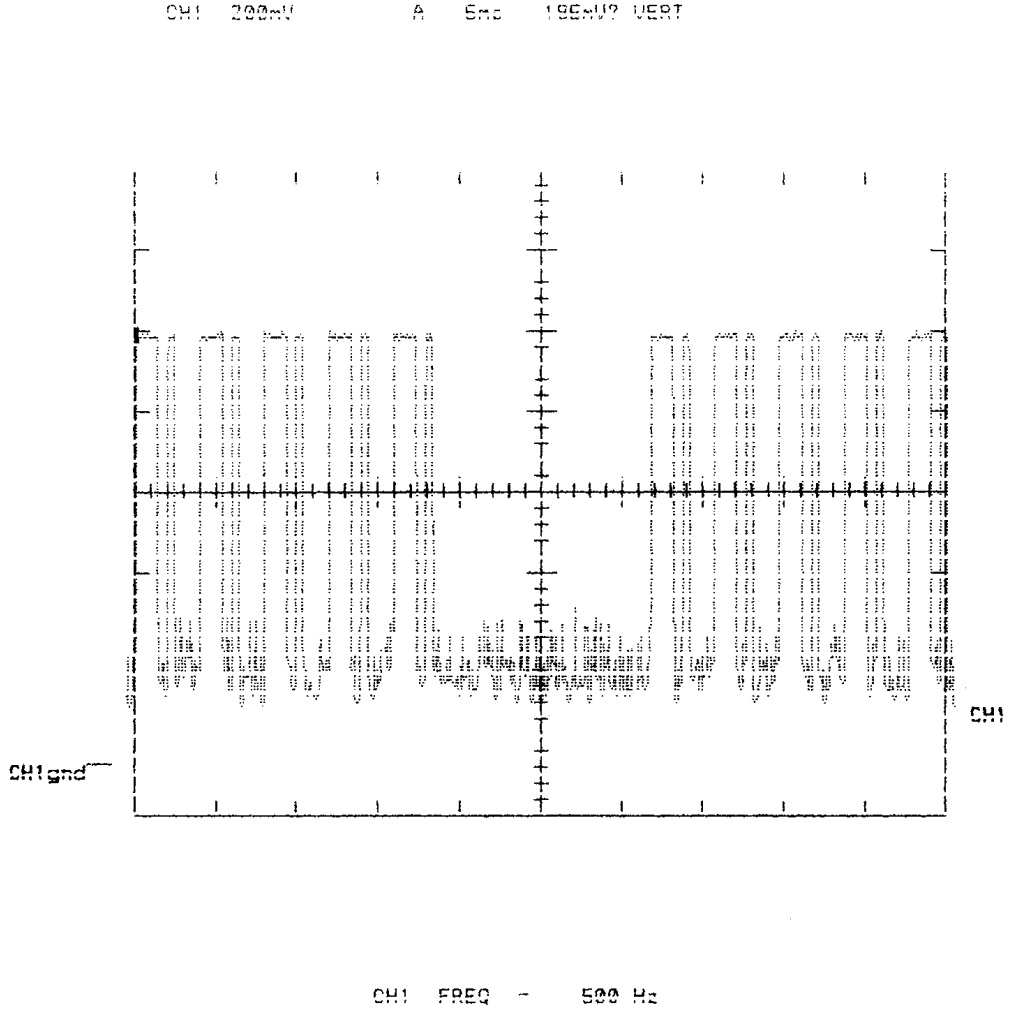
TÜV PRODUCT SERVICE

REPORT NO: 9264 | EUT: Handheld Transmitter, Model RS321 | DATE: 02 June 1999
CLIENT: Radio Shack | TEST: Duty Cycle Measurement
NOTE: 1. f_o = 300 MHz
2. 25/84 = 30%



mary washington

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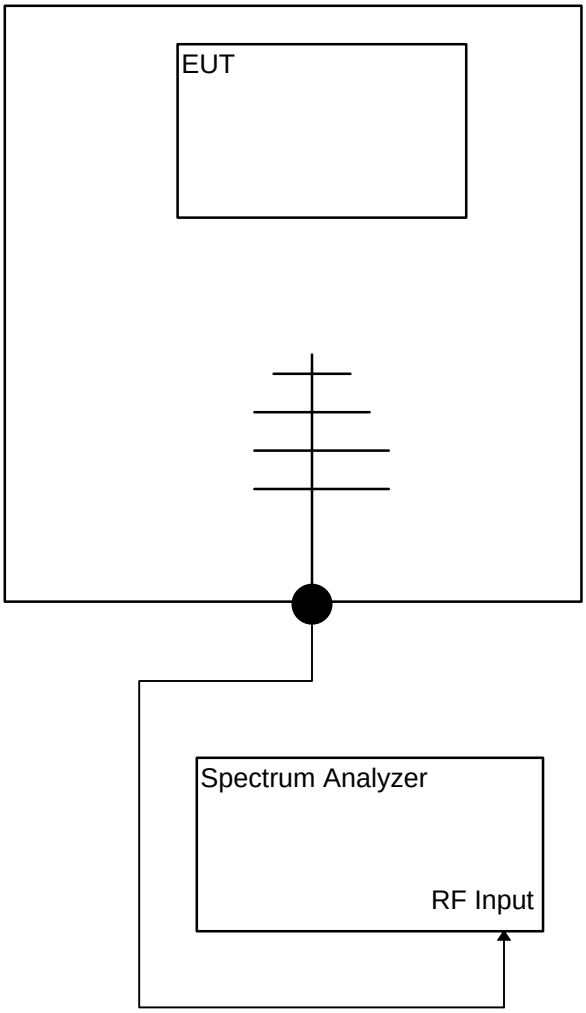
Test Setup for 20 dB Bandwidth



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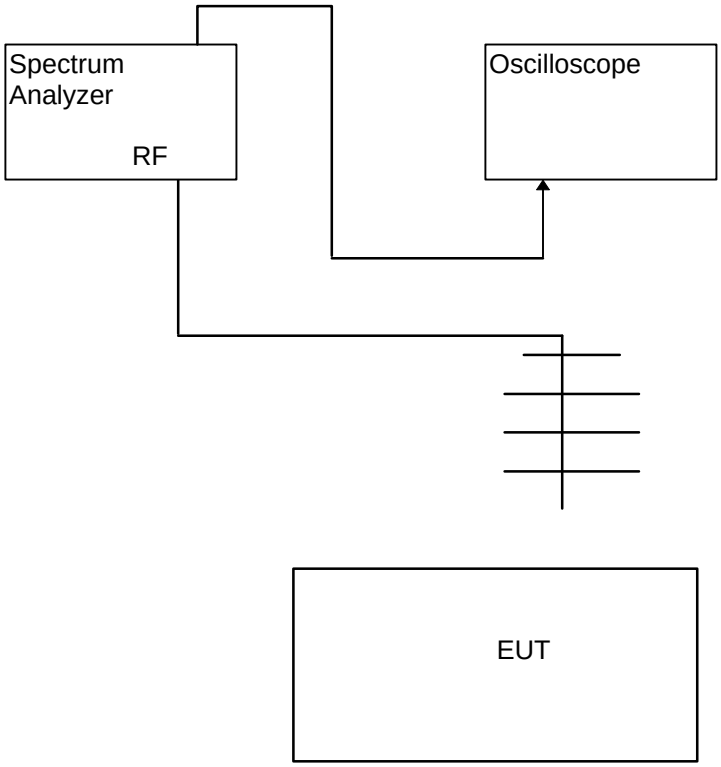
Test Setup for Duty Cycle



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Appendix A

Test Setups
(Photographs)

NOTE: All photographs are representative of setup for maximum emissions.

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

Photograph of Test Setup:
Radiated Emissions 30 MHz - 1000 MHz

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Photograph of Test Setup:
Radiated Emissions 30 MHz - 1000 MHz

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Appendix B

Product Information Form(s)

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

CUSTOMER INFORMATION	
COMPANY NAME:	RADIO SHACK
COMPANY ADDRESS:	100 Throckmorton Street, Suite 1300
	Fort Worth, TX 76102
PHONE NUMBER:	--
FAX NUMBER/E-MAIL ADDRESS:	--
CUSTOMER CONTACT:	--

PRODUCT DESCRIPTION	
NAME, MODEL, SERIAL # OF EUT:	RS321, Model 321
DESCRIPTION OF EUT:	--

Components of EUT			
Description	Model Number	Serial Number	FCC ID Number
Transmitter	321	N/A	AA06102115
OPERATING MODE(S):	Transmit/off		

I/O CABLES	
CONNECTION	--
SHIELD	
CONNECTORS	
TERMINATION TYPE	
LENGTH	
REMOVABLE	

POWER INTERFACE	
FREQUENCY/AC/DC VOLTAGE:	Battery
PHASES/CURRENT:	--

OSCILLATOR FREQUENCIES		
FREQUENCY	EUT LOCATION	DESCRIPTION OF USE
4 MHz	--	Input to micro

POWER SUPPLY				
DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	SWITCHING/LINEAR FREQ.
Disposable battery				

POWER LINE FILTERS			
MANUFACTURER	MODEL NO.	QTY.	LOCATION ON EUT
N/A			

CRITICAL EMI COMPONENTS				
DESCRIPTION	MANUFACTURER	PART # OR VALUE	QTY.	LOCATION ON EUT
N/A				
DESCRIPTION OF ENCLOSURE:	Plastic			

INTERFACING AND/OR SIMULATORS PERIPHERAL EQUIPMENT:				
DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	FCC ID
--				
BLOCK DIAGRAM:	--			

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

Appendix C

Change History

Not Applicable

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Appendix D

Supplemental Information

Not Applicable

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