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1 GENERAL INFORMATION

Form

EMC Test Plan and Constructional Data Form



PLEASE COMPLETE THIS DOCUMENT IN FULL, ENTERING N/A IF THE FIELD IS NOT APPLICABLE.

Applicant -- NOTE: This information will be input into your test report as shown below.
Press the F1 key at any time to get HELP for the current field selected.

Company: HM Electronics, Inc.

Address: 6675 Mesa Ridge Road
San Diego, Ca. 92121

Contact: Tom Riches Position: Engineering Services Manager

Phone: 858-535-6098 Fax: 858-535-6019

E-mail Address: triches@hme.com

General Equipment Description -- NOTE: This information will be input into your test report as shown below.

EUT Description: SYS800 Wireless Intercom Belt Pac

EUT Name: _____

Model No.: BH800 Serial No.: 49C00263

Product Options: Headset

Configurations to be tested: Standard

Test Objective

- | | |
|--|---|
| ☐ EMC Directive 89/336/EEC (EMC) | ☒ FCC: Class ☐ A ☐ B Part <u>2/74</u> |
| Std: _____ | ☐ VCCI: Class ☐ A ☐ B |
| ☐ Machinery Directive 89/392/EEC (EMC) | ☐ BCIC: Class ☐ A ☐ B |
| Std: _____ | ☐ Canada: Class ☐ A ☐ B |
| ☐ Medical Device Directive 93/42/EEC (EMC) | ☐ Australia: Class ☐ A ☐ B |
| Std: _____ | ☒ Other: <u>Canada Part 2/74 Equivalent (RSS123?)</u> |
| ☐ Vehicle Directive 72/245/EEC (EMC) | |
| Std: _____ | |
| ☐ FDA Reviewers Guidance for Premarket Notification Submissions (EMC) | |

Form

EMC Test Plan and Constructional Data Form



TÜV Product Service Certification Requested

- ☐ Attestation of Conformity (AoC)
 ☐ International EMC Mark (IEM)
 ☐ Certificate of Conformity (CoC)
 ☒ Compliance Document
- Protection Class (N/A for vehicles)
 ☐ Class I
 ☐ Class II
 ☐ Class III
- (Press F1 when field is selected to show additional information on Protection Class.)

Attendance

Test will be: ☒ Attended by the customer ☐ Unattended by the customer

Failure - Complete this section if testing will not be attended by the customer.

If a failure occurs, TÜV Product Service should:

- ☐ Call contact listed above, if not available then stop testing. (After hrs phone): _____
☐ Continue testing to complete test series.
☐ Continue testing to define corrective action.
☐ Stop testing.

EUT Specifications and Requirements

Length: 4.6 inches Width: 4.0 inches Height: 1.6 inches Weight: 13 oz
 : _____

Power Requirements

Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)

Voltage: 4.8 VDC (if battery powered, make sure battery life is sufficient to complete testing.)

of Phases: N/A

Current (Amps/phase(max)): N/A Current (Amps/phase(nominal)): N/A

Other Note: Battery Powered

Other Special Requirements

N/A

Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.)
 Broadcast Television Studio



Form

EMC Test Plan and Constructional Data Form



EUT Power Cable			
☐ Permanent	OR	☐ Removable	Length (in meters): _____
☐ Shielded	OR	☐ Unshielded	
☒ Not Applicable			

Form

EMC Test Plan and Constructional Data Form



EUT Interface Ports and Cables												
Interface			Shielding									
Type	Analog	Digital	Qty	Yes	No	Type	Termination	Connector Type	Port Termination	Length (in meters)	Removable	Permanent
EXAMPLE:												
RS232	☐	☒	2	☒	☐	Foil over braid	Coaxial	Metallized 9-pin D-Sub	Characteristic Impedance	6	☒	☐
Headset	☒	☐	1	☐	☒	N/A	N/A	4 Pin XLR	1K (Mic) 50 Ohms (Earpiece)	2	☒	☐
TX Antenna	☒	☐	1	☐	☒	N/A	N/A	N/A	50 ohms		☐	☒
RX Antenna	☒	☐	1	☐	☒	N/A	N/A	N/A	50 ohms		☐	☒
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐
	☐	☐		☐	☐						☐	☐

Form

EMC Test Plan and Constructional Data Form**EUT Software.**

Revision Level: N/A

Description: N/A

EUT Operating Modes to be Tested -- list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

1. Transmit
2. Receive
3. Idle

EUT System Components -- List and describe all components which are part of the EUT. For FCC testing a minimum configuration is required. (ie. Mouse, Printer, Monitor, External Disk Drive, Motherboard, etc.)

Description	Model #	Serial #	FCC ID #
SYS800 Belt Pac	BH800	49C00263	BH80074

Form

EMC Test Plan and Constructional Data Form



Support Equipment -- List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc)			
Description	Model #	Serial #	FCC ID #
Headset	HS9-2	18C02518	N/A
Battery	104023		N/A
Base Station	RW800	49C00281	RW80074

Oscillator Frequencies			
Frequency	Derived Frequency	Component # / Location	Description of Use
3.5864 MHz	N/A	X1 on Assy 950094 (K13116)	CTCSS Reference Oscillator
20.549 MHz	493.175 MHz	X2 on Assy 950094 (K13116)	Transmitter Oscillator (U26)
49.8556 MHz	448.700 MHz	X3 on Assy 950094 (K13116)	Receiver 1st Local Oscillator (U16)
20.945 MHz	N/A	X4 on Assy 950094 (K13116)	Receiver 2nd Local Oscillator
3.5864 MHz	N/A	X5 on Assy 950094 (K13116)	CTCSS Reference Oscillator

Power Supply			
Manufacturer	Model #	Serial #	Type
HME	104023	N/A	☐ Switched-mode: (Frequency) _____ ☐ Linear ☒ Other: Battery
			☐ Switched-mode: (Frequency) _____ ☐ Linear ☐ Other: _____

Power Line Filters		
Manufacturer	Model #	Location in EUT
N/A	N/A	N/A

1 GENERAL INFORMATION (continued)

1.2 Related Submittal/Grant

None

1.3 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system are:

None

1.4 Test Methodology

Purpose of Test: To demonstrate compliance with the ANSI C63.4 setup.

PASS/FAIL	TEST PERFORMED
PASS	RF Power Output 2.1046
PASS	Modulation Characteristics 2.1047
PASS	Occupied Bandwidth 2.1049, 74.861(e)
PASS	Spurious Emissions at Antenna Terminals 2.1051
PASS	Radiated Spurious Emissions 2.1053, 74.861(e)
PASS	Frequency Stability 2.1055, 74.861(e)

1.5 Test Facility

The open area test site and conducted measurement data were tested by:

TÜV PRODUCT SERVICE
10040 Mesa Rim Road
San Diego, CA 92121-2912
Phone: 858 546 3999
Fax: 858 546 0364

The Test Site Data and performance comply with ANSI 63.4 and are registered with the FCC, 7435 Oakland Mills Rd, Columbia Maryland 21046. All Measurement Data is acquired according to the content of FCC Measurement Procedure and ANSI C63.4, unless supplemented with additional requirements as noted in the test report.

1.6 Part 2 Requirements



December 28, 2001

General Information Regarding the STS800 Bellpac Part 74 FCC Submission:

Manufacturer and Applicant for Certification:

HME Electronics, Inc.
6675 Mesa Ridge Road
San Diego, Ca. 92121
USA

Manufacturer and Applicant FCC Registration Number:
FRN# 0005-8707-04

FCC Identifier:
BYMBH80074

Frequency Range in MHz:

491-501

Frequency Tolerance:
+/- 0.005%

Range of Operating Power Levels:
0.050 Watts (not user adjustable)

Maximum Power Rating:
Watts 0.050

Type of Emission:
United States - 2SK6F3E
Canada - 16K0F3E

Microprocessor:
Not Applicable

6675 Mesa Ridge Rd San Diego, California 92121 Corporate Phones (619) 535-6000 / Fax: (619) 452-7107

Page 12

Rev.No 1.0

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 858 546 3999 FAX 858 546 0364

2. SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was initially tested for FCC emission in the following configuration:

See Block Diagram.

2.2 EUT Exercise Software

None

2.3 Special Accessories

None

2.4 Modification

None

2.5 Configuration of Tested System

See Block Diagram.

3 RF POWER OUTPUT

Report No. SC107952

Test Conditions: FCC 76.861

Photos taken? ☒ Yes

- ☒ SR 2, Shielded Room, 12' x 24' x 10', Metal Chamber
☒ Canyon 2, Open Site ☒ 3 meter ☐ 10 meter

Test Equipment Used:

Model Number	Prop. #	Description	Manufacturer	Serial No.	Cal. Date	2.1046	2.1047	2.1049	2.1051	2.1055	2.1053
hp8586B	721	Spectrum Analyzer	Hewlett Packard	2542A12099	8/21/02						
ESVS20	427	EMI Receiver	Rohde & Schwarz	830350/006	12/8/02						
hp3314A	133	Signal Generator	Hewlett Packard	2151A03391	4/3/02						
PreAmp 2-20 GHZ	719	PreAmp	TUV Product Service	719	3/26/02						
3115	453	Antenna, Horn	Electro Mechanics Co	5412-4364	12/1/03						
LPB2520/A	739	Antenna	Antenna Research	1170	3/21/02						

SC-108037 BELT TRANSCIVER
HM Electronics, Inc.

BYMBH 800
2.1046 RF POWER OUTPUT

DEC. 13, 2001
AAL

MKR 493.175 0 MHz
123.10 dB μ V

hp REF 137.0 dB μ V ATTEN 40 dB

10 dB/

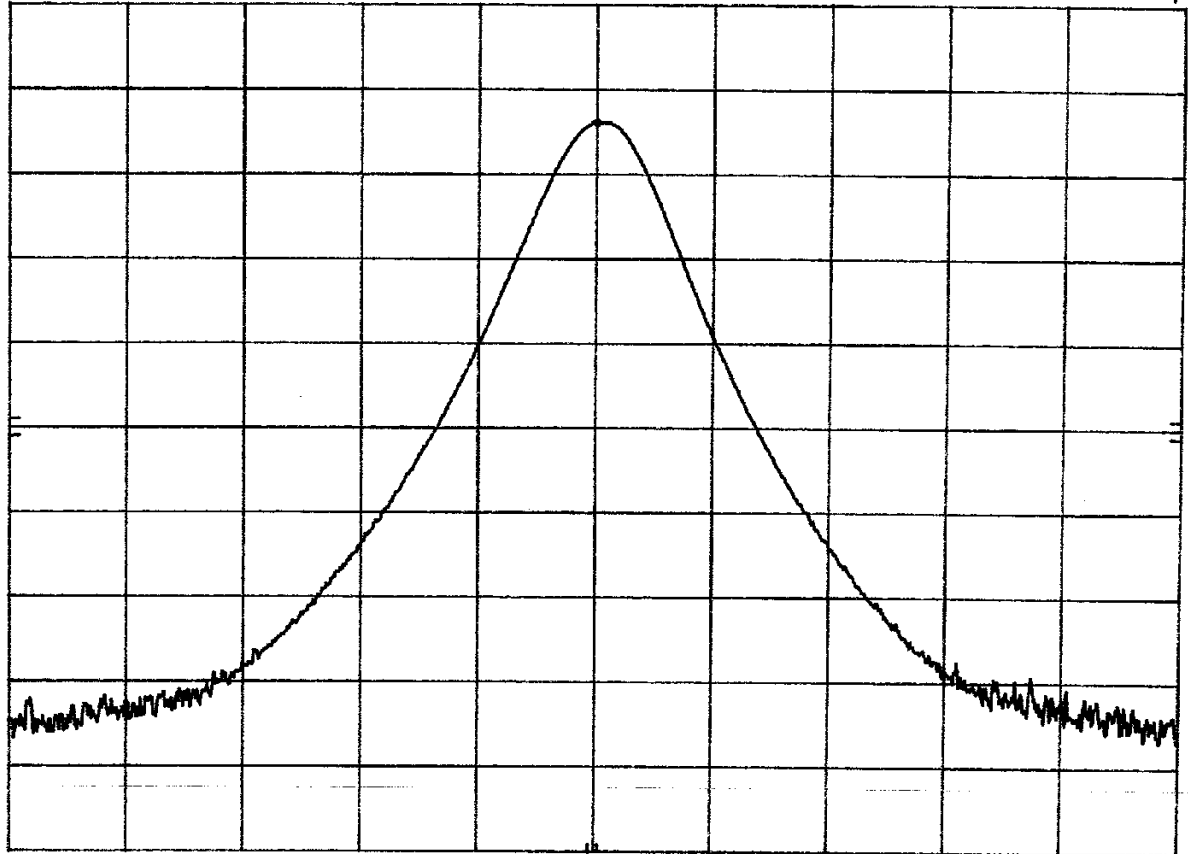
POS PK

CORR'D

CENTER 493.175 MHz
RES BW 10 kHz

VBW 30 kHz

SPAN 201 kHz
SWP 30.0 msec

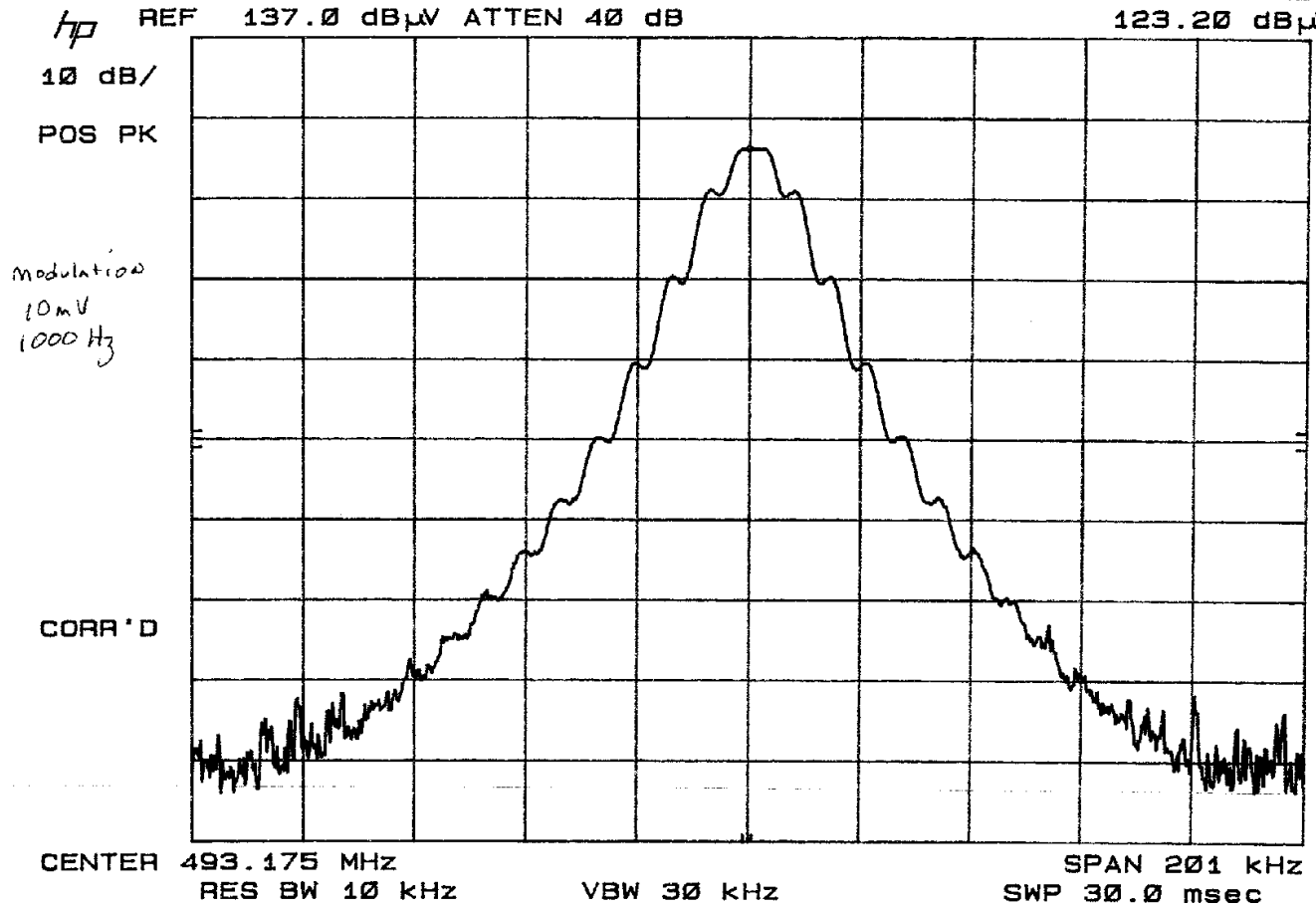


SC-108037 BELT TRANSCIVER
HM Electronics, Inc.

BYMBH800
2.1046 RF POWER OUTPUT

DEC. 13, 2001
AAL

MR 493.174 B MHz
123.20 dBμV



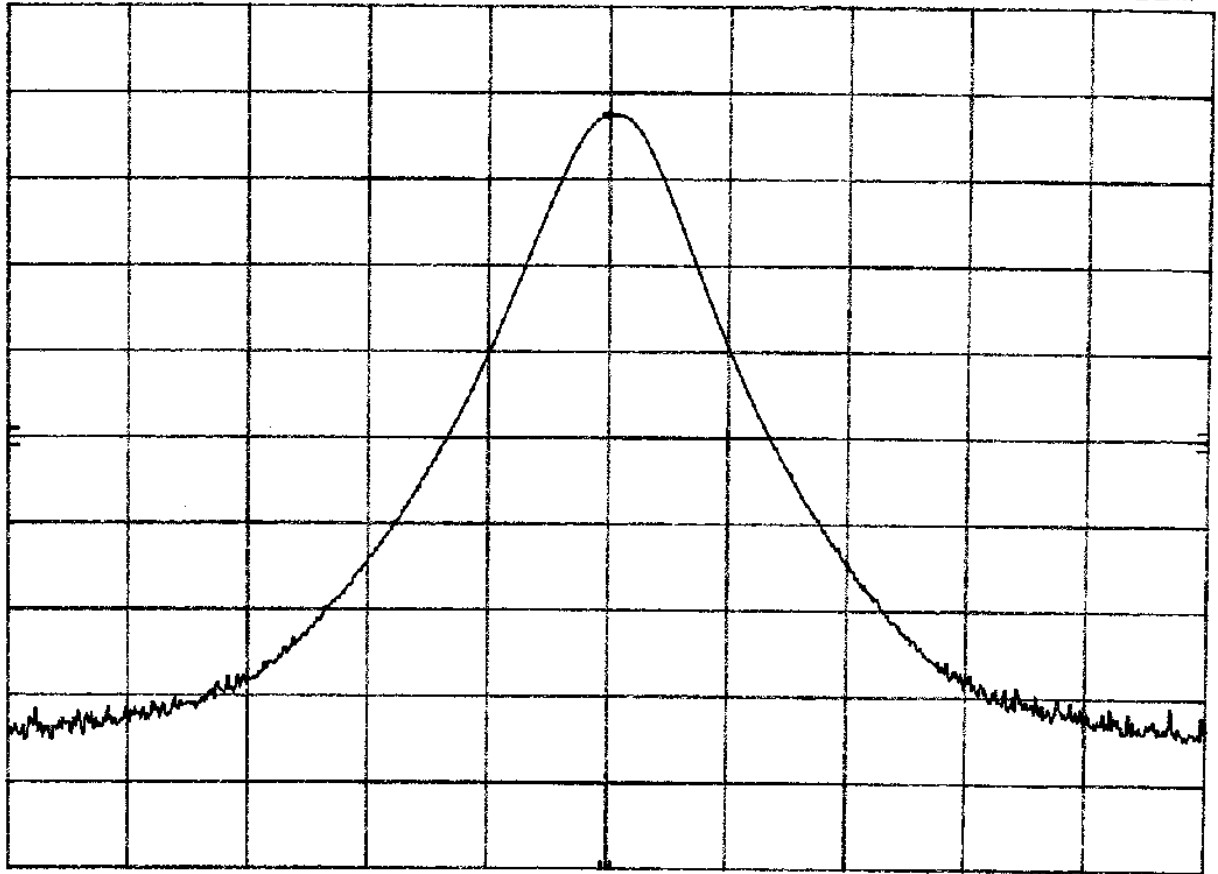
SC108037
HME

2.1046 RF POWER OUTPUT

01/17/02

MKR 499.924 8 MHz
17.40 dBm

HP REF 30.0 dBm ATTN 40 dB
10 dB/
POS PK



CENTER 499.925 MHz SPAN 200 kHz
RES BW 10 kHz VBW 30 kHz SWP 30.0 msec

4 MODULATION CHARACTERISTICS

Report No. SC107952

Test Conditions: FCC 76.861

Photos taken? ☒ Yes

- ☒ SR 2, Shielded Room, 12' x 24' x 10', Metal Chamber
☒ Canyon 2, Open Site ☒ 3 meter ☐ 10 meter

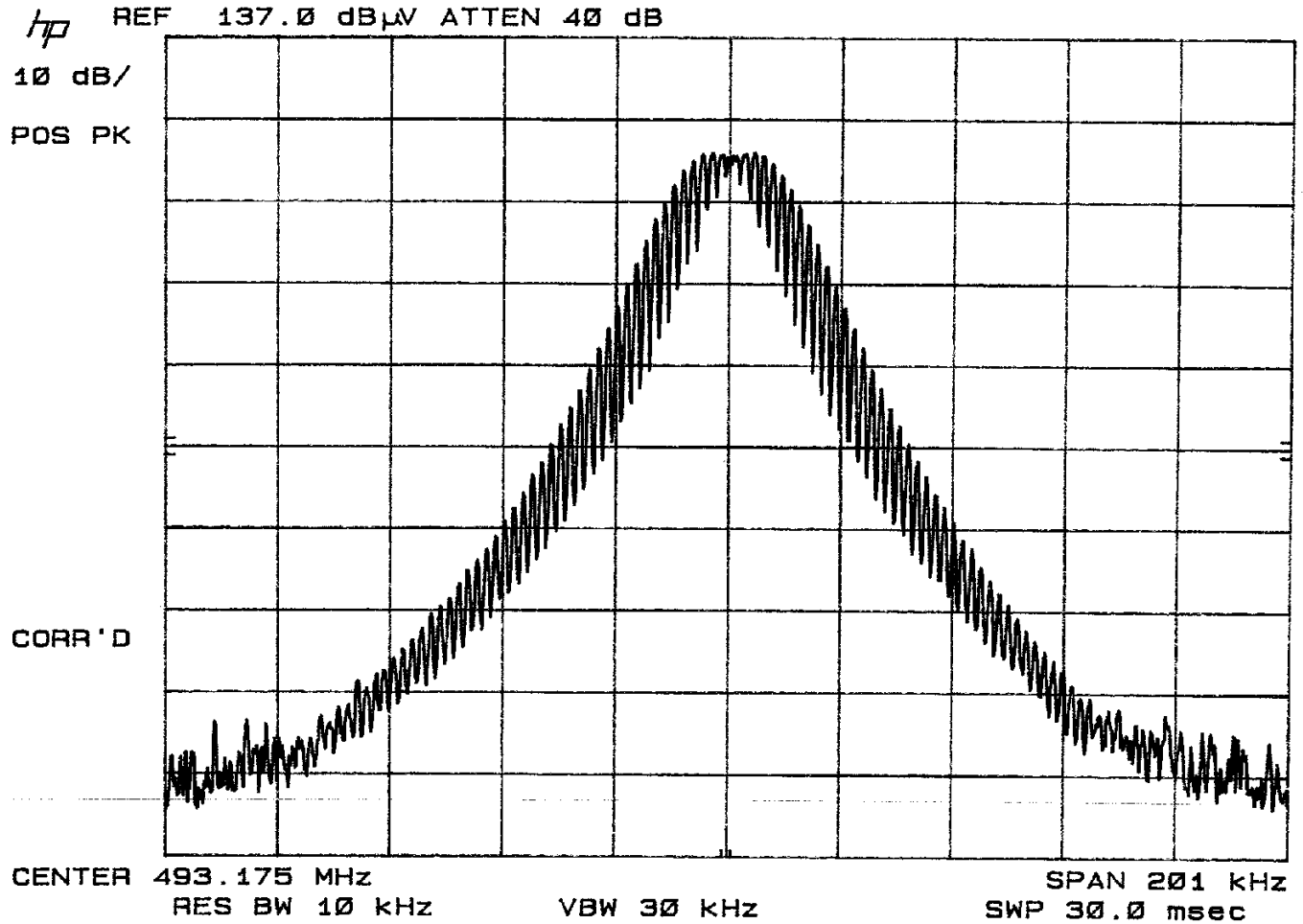
Test Equipment Used:

Model Number	Prop. #	Description	Manufacturer	Serial No.	Cal. Date	2.1046	2.1047	2.1049	2.1051	2.1055	2.1053
hp8586B	721	Spectrum Analyzer	Hewlett Packard	2542A12099	8/21/02						
ESVS20	427	EMI Receiver	Rohde & Schwarz	830350/006	12/8/02						
hp3314A	133	Signal Generator	Hewlett Packard	2151A03391	4/3/02						
PreAmp 2-20 GHZ	719	PreAmp	TUV Product Service	719	3/26/02						
3115	453	Antenna, Horn	Electro Mechanics Co	5412-4364	12/1/03						
LPB2520/A	739	Antenna	Antenna Research	1170	3/21/02						

SC-108437 BELT TRANSCIVER
HM Electronics, Inc.

BYMBH800
2.1047 MODULATION CHARACTERISTICS

DEC. 13, 2001
AAL:Af



5 OCCUPIED BANDWIDTH

Report No. SC107952

Test Conditions: FCC 76.861

Photos taken? ☒ Yes

- ☒ SR 2, Shielded Room, 12' x 24' x 10', Metal Chamber
☒ Canyon 2, Open Site ☒ 3 meter ☐ 10 meter

Test Equipment Used:

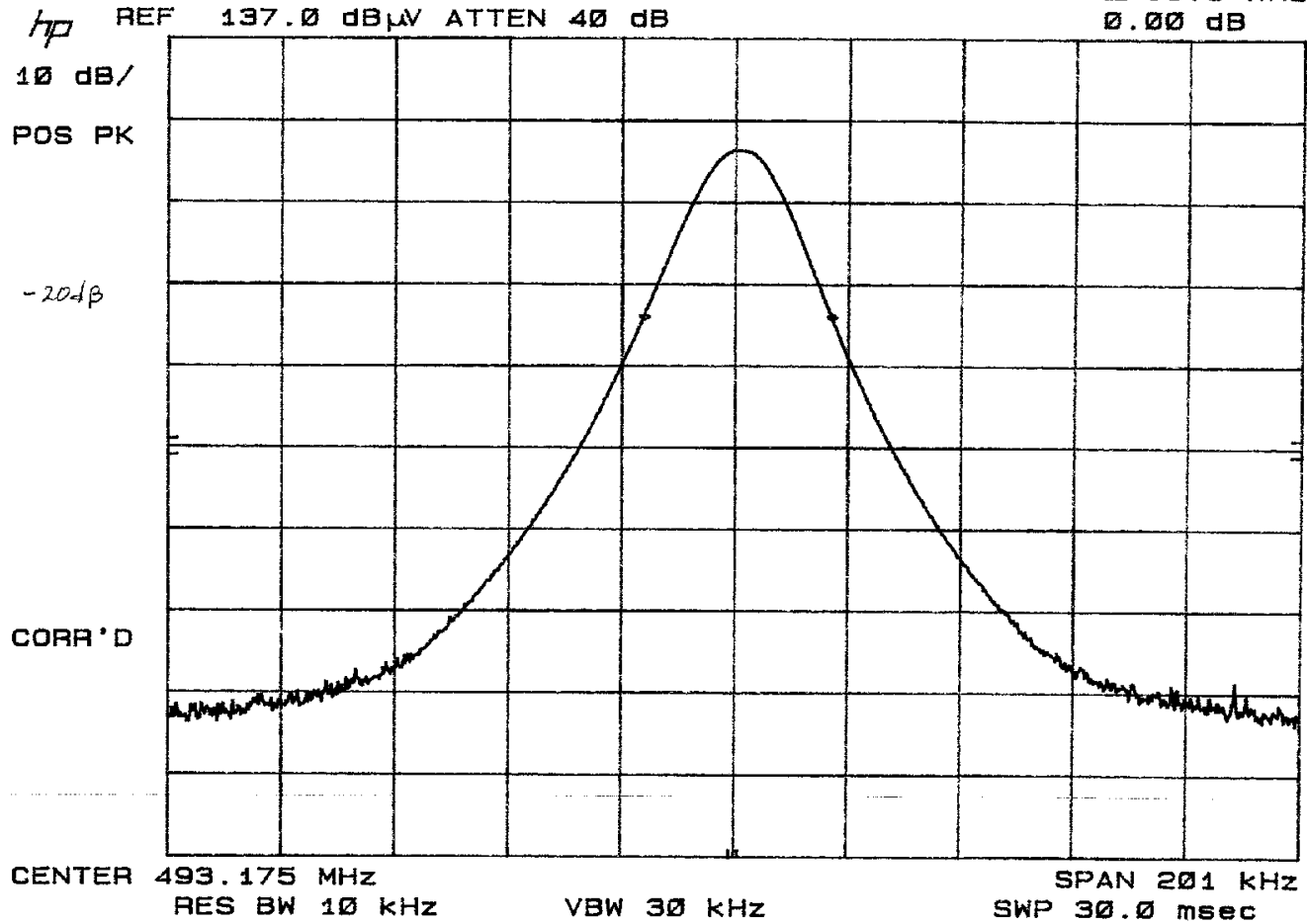
Model Number	Prop. #	Description	Manufacturer	Serial No.	Cal. Date	2.1046	2.1047	2.1049	2.1051	2.1055	2.1053
hp8586B	721	Spectrum Analyzer	Hewlett Packard	2542A12099	8/21/02						
ESVS20	427	EMI Receiver	Rohde & Schwarz	830350/006	12/8/02						
hp3314A	133	Signal Generator	Hewlett Packard	2151A03391	4/3/02						
PreAmp 2-20 GHZ	719	PreAmp	TUV Product Service	719	3/26/02						
3115	453	Antenna, Horn	Electro Mechanics Co	5412-4364	12/1/03						
LPB2520/A	739	Antenna	Antenna Research	1170	3/21/02						

SC-10 8037 BELT TRANSCIVER
HM Electronics, Inc.

BYMBH 800
2.1049 OCCUPIED BANDWIDTH
Part 74.861(e)

DEC. 13, 2001
AAL *AKF*

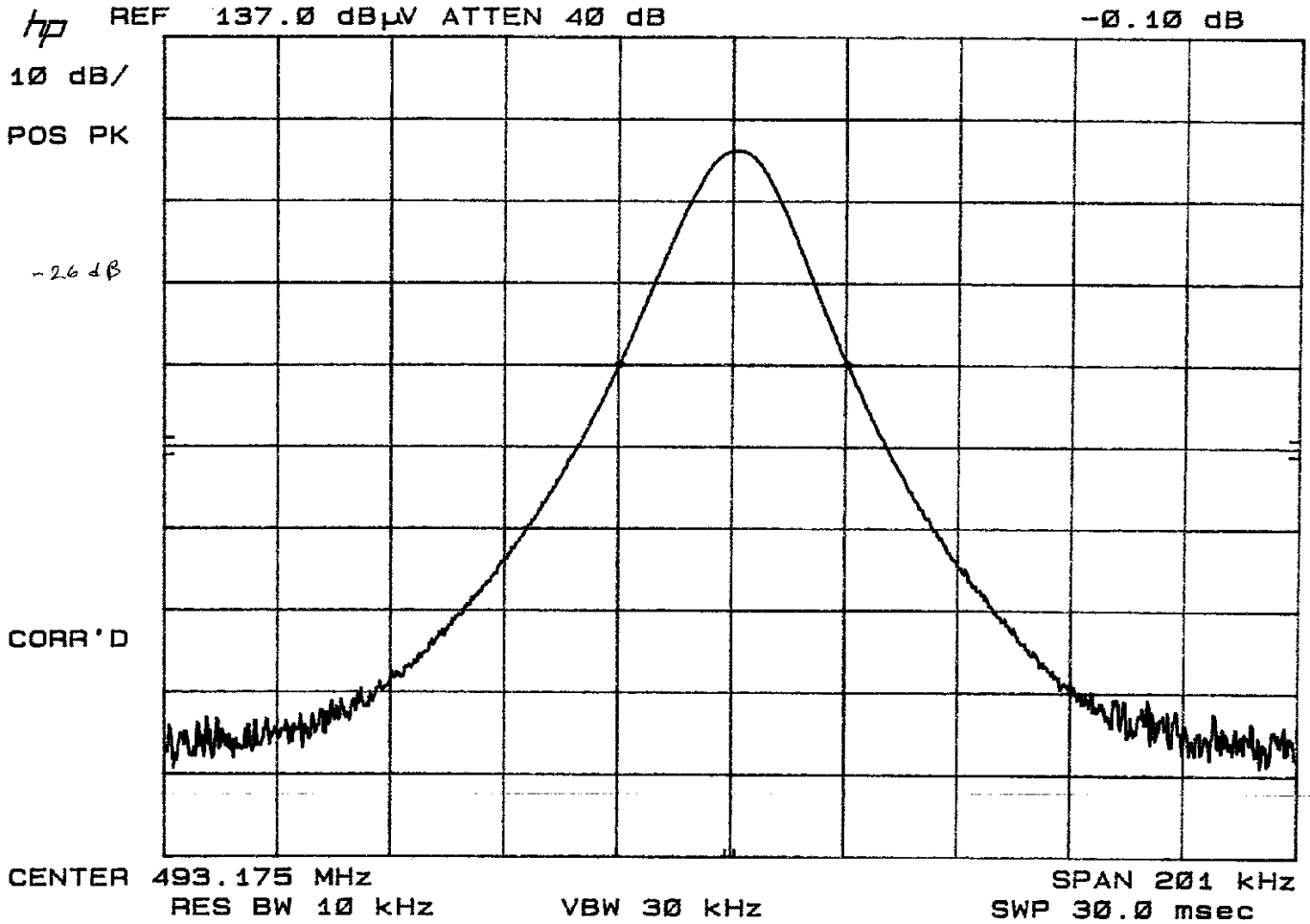
MKR Δ 33.3 kHz
0.00 dB



SC-107937 BELT TRANSCIVER
HM Electronics, Inc.

BYMBH800
2.1049 OCCUPIED BANDWIDTH
Part 74.861(e)

DEC. 13, 2001
AAL *Adz*



6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Report No. SC107952

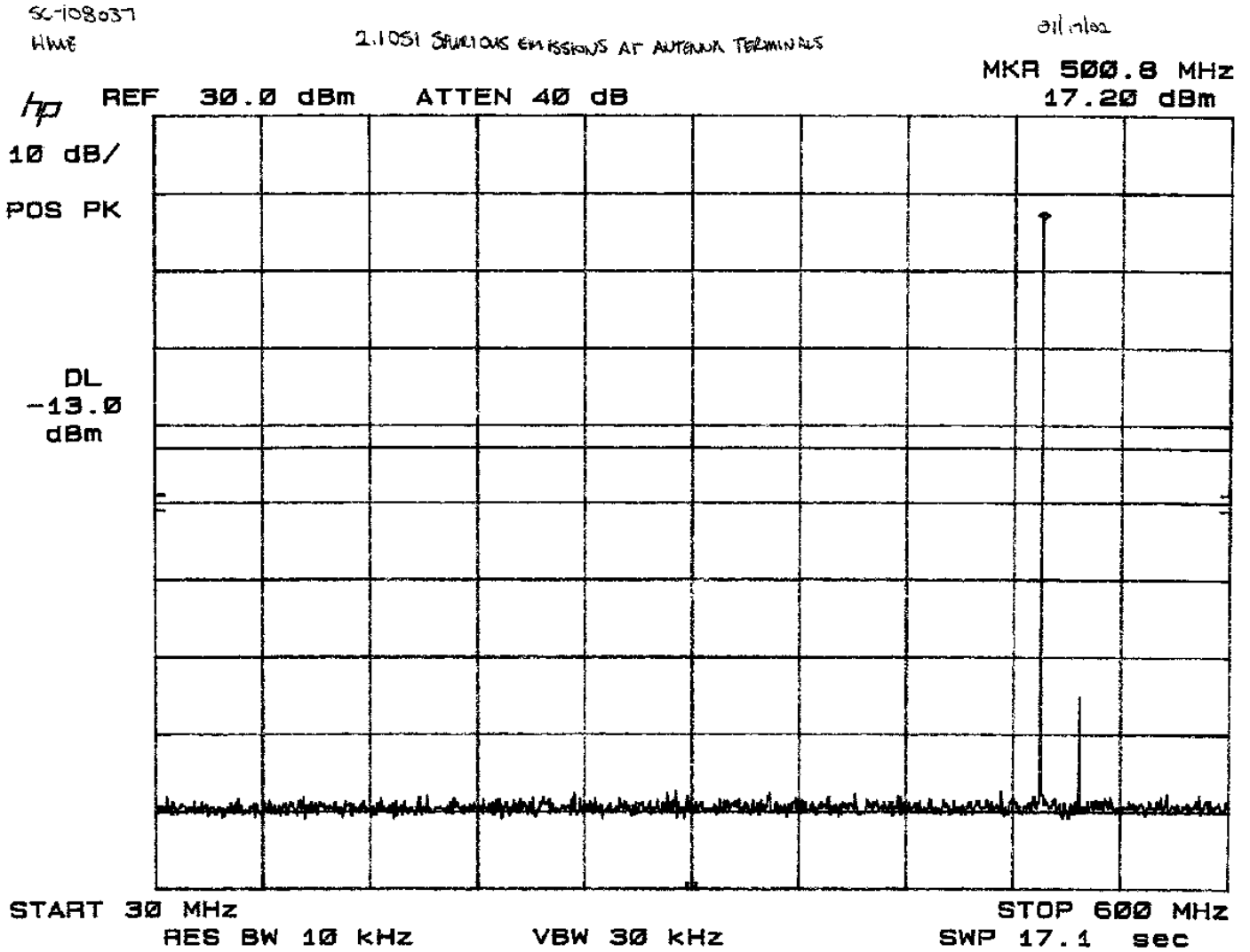
Test Conditions: FCC 76.861

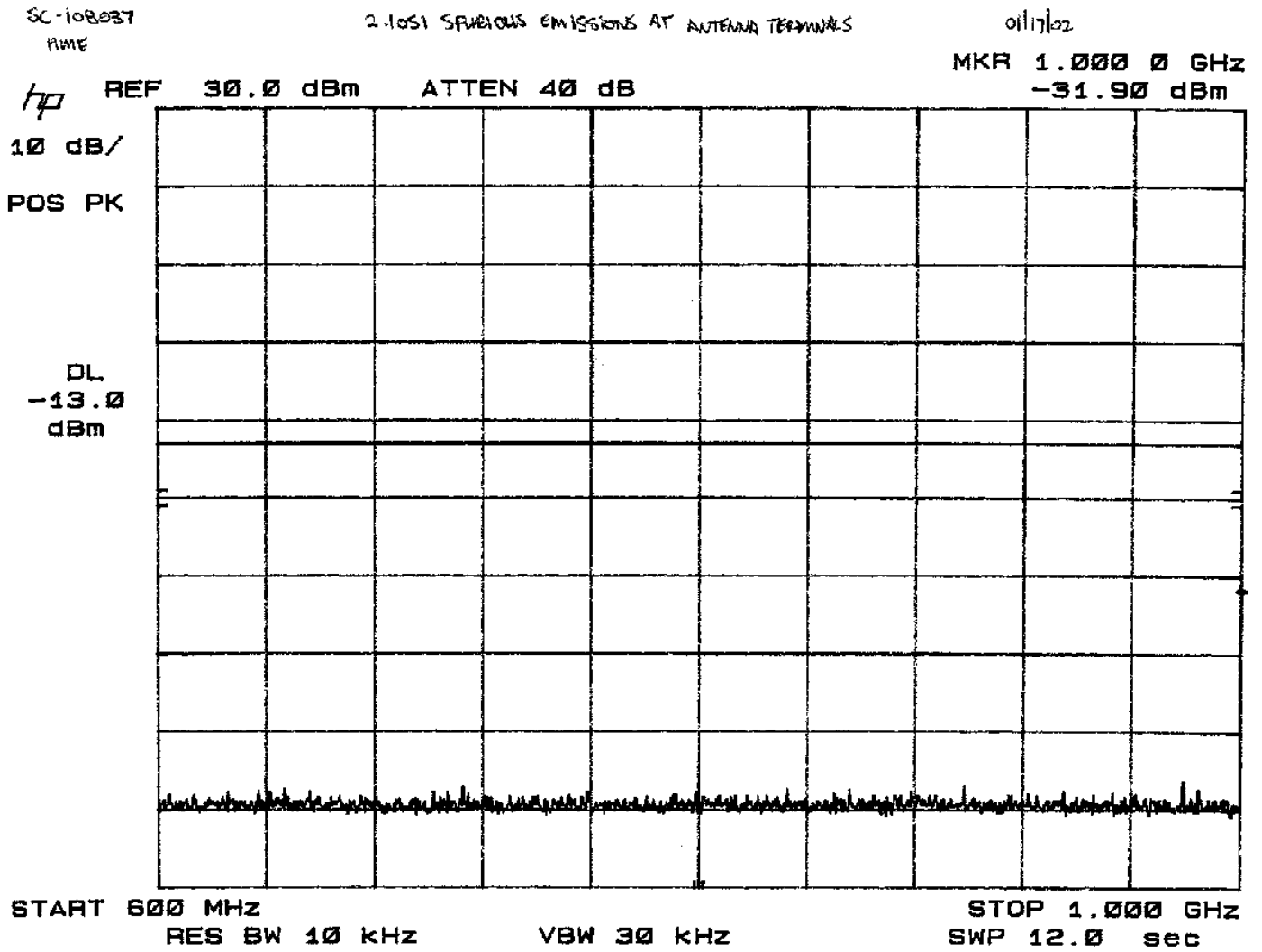
Photos taken? ☒ Yes

- ☒ SR 2, Shielded Room, 12' x 24' x 10', Metal Chamber
☒ Canyon 2, Open Site ☒ 3 meter ☐ 10 meter

Test Equipment Used:

Model Number	Prop. #	Description	Manufacturer	Serial No.	Cal. Date	2.1046	2.1047	2.1049	2.1051	2.1055	2.1053
hp8586B	721	Spectrum Analyzer	Hewlett Packard	2542A12099	8/21/02						
ESVS20	427	EMI Receiver	Rohde & Schwarz	830350/006	12/8/02						
hp3314A	133	Signal Generator	Hewlett Packard	2151A03391	4/3/02						
PreAmp 2-20 GHZ	719	PreAmp	TUV Product Service	719	3/26/02						
3115	453	Antenna, Horn	Electro Mechanics Co	5412-4364	12/1/03						
LPB2520/A	739	Antenna	Antenna Research	1170	3/21/02						





SC-108037
HME

2-1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

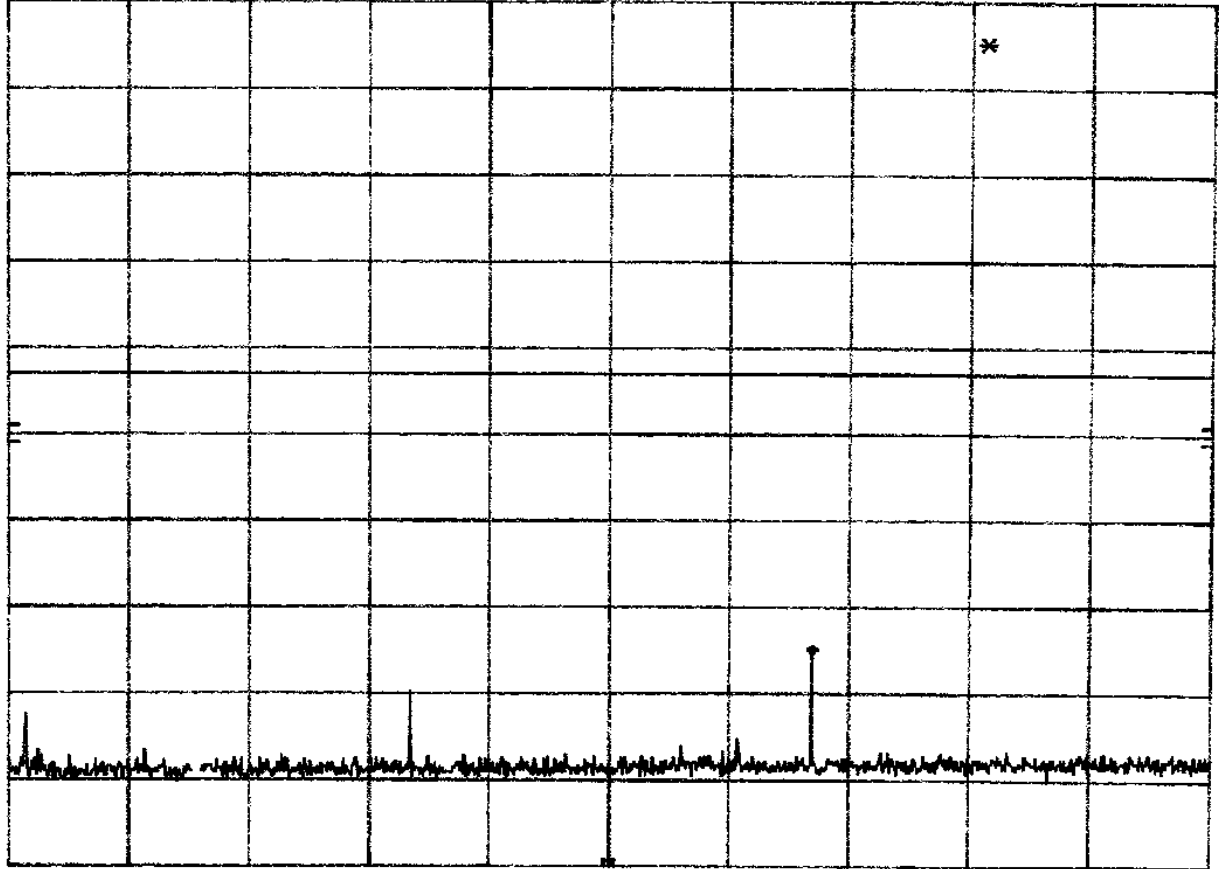
01/17/02

MKR 2.004 GHz
-44.90 dBm

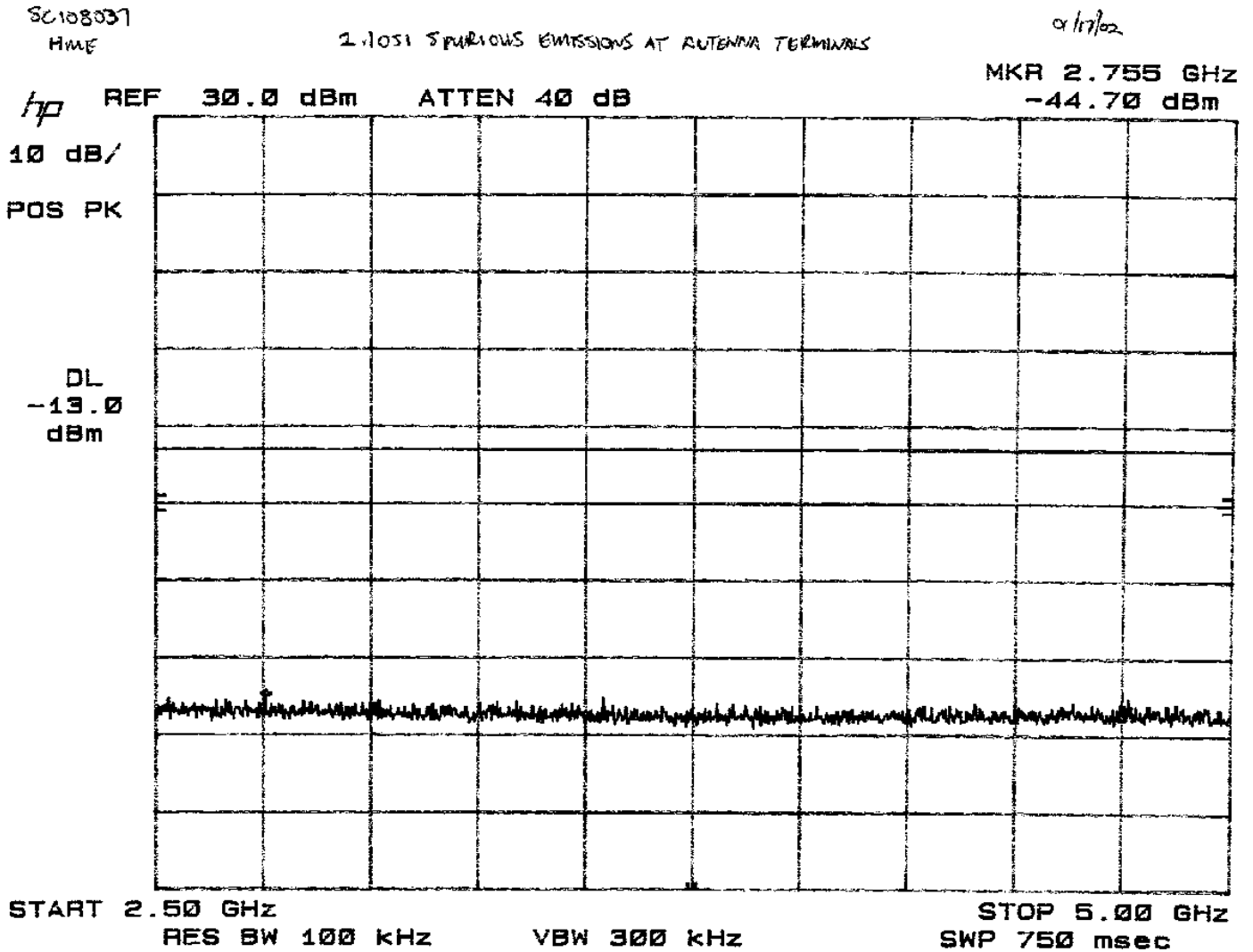
hp REF 30.0 dBm ATTN 40 dB

10 dB/
POS PK

DL
-13.0
dBm



START 1.00 GHz RES BW 10 KHz VBW 30 KHz STOP 2.50 GHz
SWP 45.0 sec



SC-108037
HM Electronics, Inc.

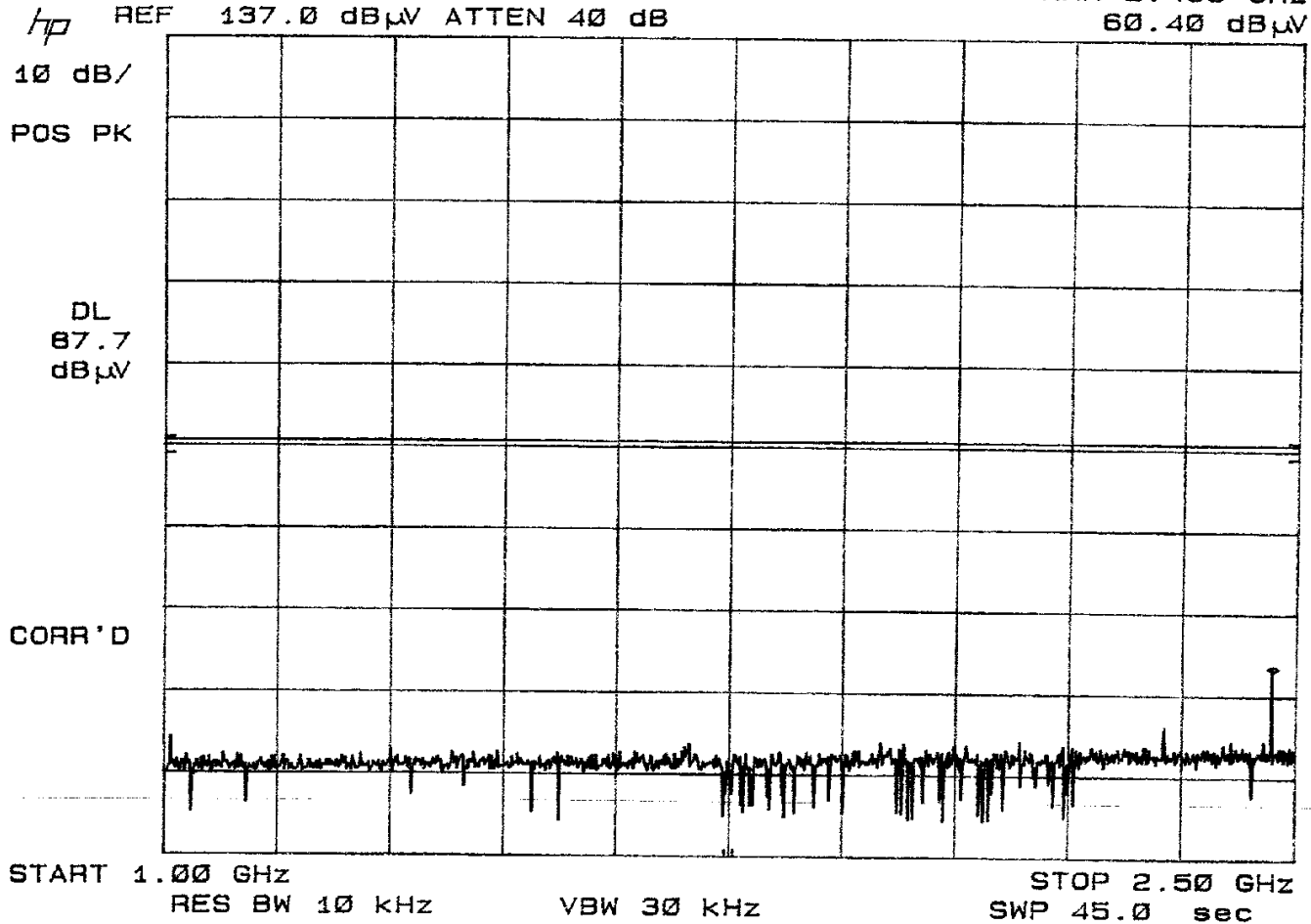
BYMBH800

2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

DEC. 13, 2001

AAL *AAS*

MKR 2.469 GHz
60.40 dB μ V



SC-108037

HM Electronics, Inc.

BYMBH 800

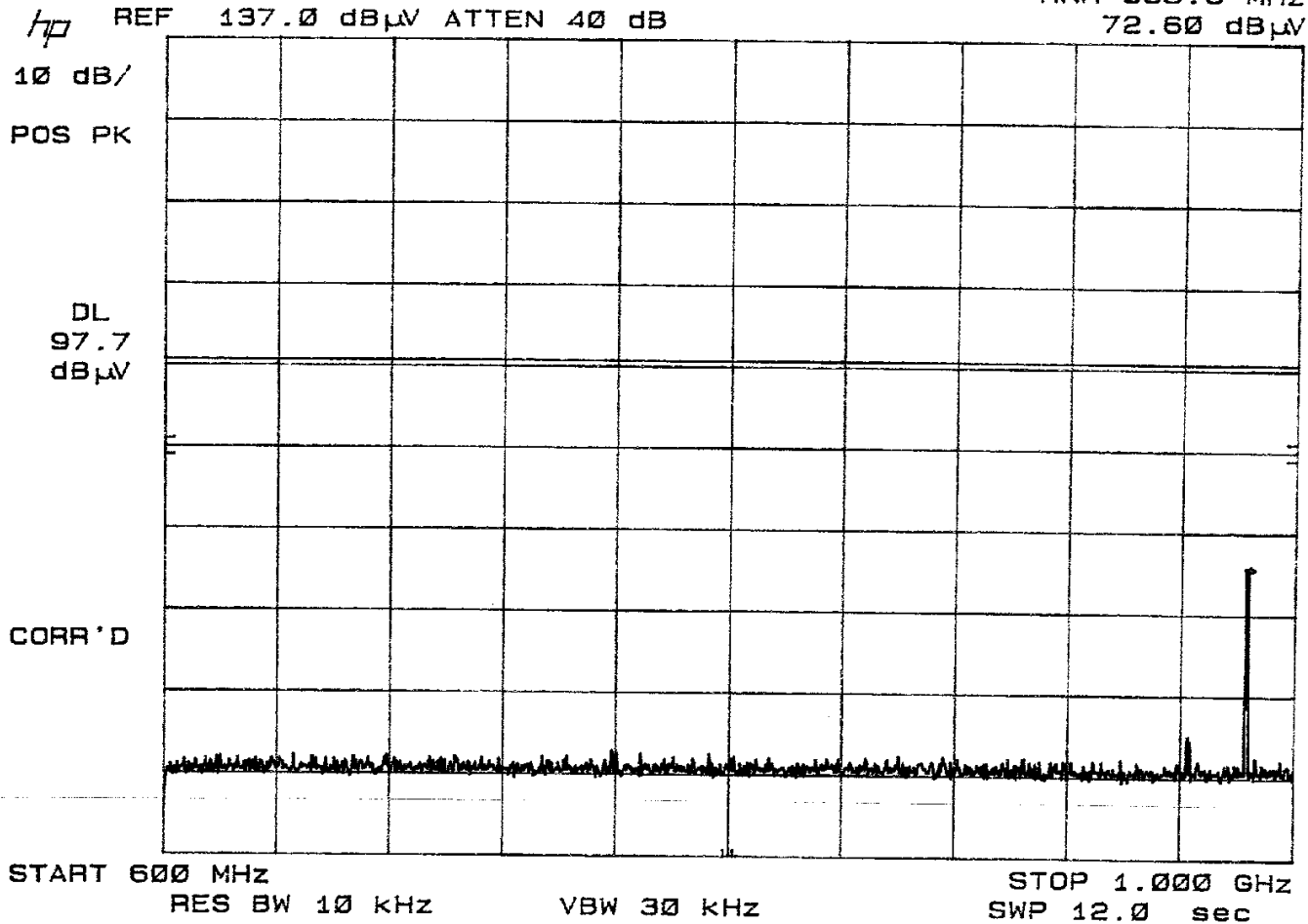
2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

DEC. 13, 2001

AAL *af*

MKR 983.6 MHz

72.60 dB μ V



SC-108037

HM Electronics, Inc.

BYMBH800

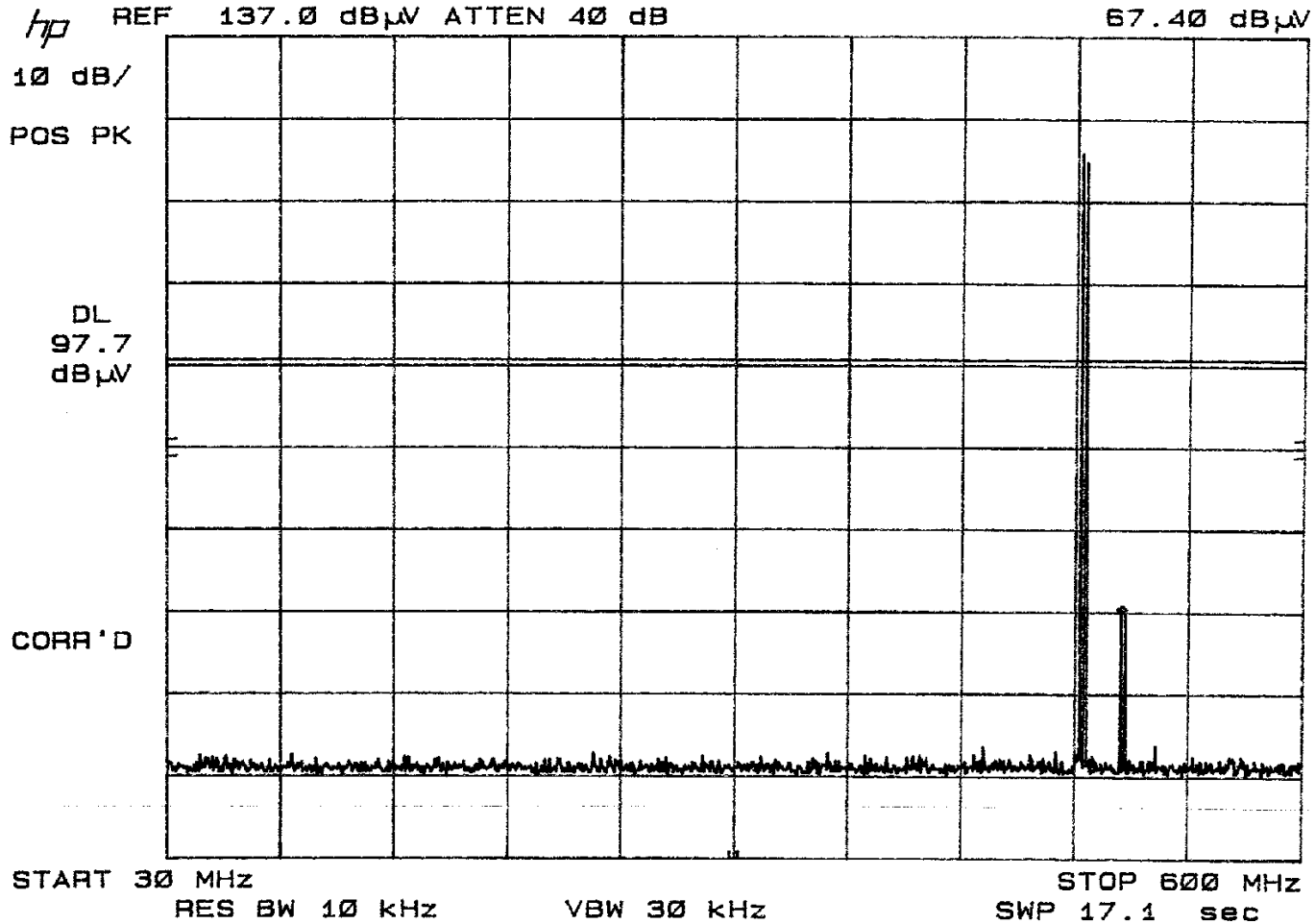
2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

DEC. 13, 2001

AAL AAF

MKR 509.4 MHz

67.40 dB μ V



7 RADIATED SPURIOUS EMISSION DATA/EQUIPMENT

Report No. SC107952

Test Conditions: FCC 76.861

Photos taken? ☒ Yes

- ☒ SR 2, Shielded Room, 12' x 24' x 10', Metal Chamber
☒ Canyon 2, Open Site ☒ 3 meter ☐ 10 meter

Test Equipment Used:

Model Number	Prop. #	Description	Manufacturer	Serial No.	Cal. Date	2.1046	2.1047	2.1049	2.1051	2.1055	2.1053
hp8586B	721	Spectrum Analyzer	Hewlett Packard	2542A12099	8/21/02						
ESVS20	427	EMI Receiver	Rohde & Schwarz	830350/006	12/8/02						
hp3314A	133	Signal Generator	Hewlett Packard	2151A03391	4/3/02						
PreAmp 2-20 GHZ	719	PreAmp	TUV Product Service	719	3/26/02						
3115	453	Antenna, Horn	Electro Mechanics Co	5412-4364	12/1/03						
LPB2520/A	739	Antenna	Antenna Research	1170	3/21/02						

above 1GHz: RBW & VBW 1 MHz for PK; RBW 1MHz and VBW 10Hz for AVG
below 1GHz: RBW & VBW 100 kHz for PK; RBW 100kHz and VBW 10Hz for AVG
CF = Antenna Factor + Cable Loss - Preamplifier Gain + Preselector Loss

[illegible]

CF = Antenna Factor + Cable Loss - Preamplifier Gain + Preselector Loss

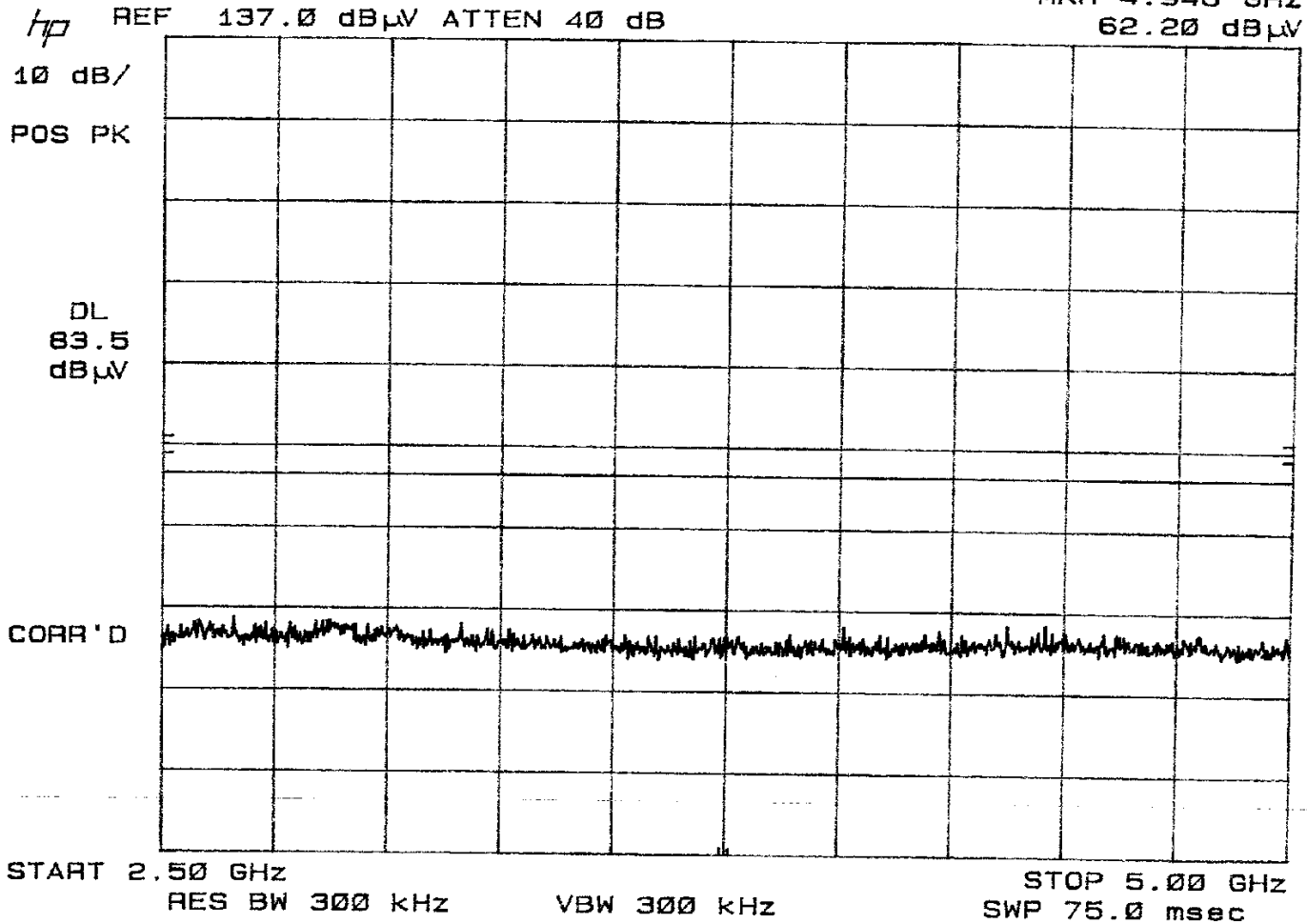
TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 858 546 3999 FAX 858 546 0364

SC-108037
HM Electronics, Inc.

BYMBH 800
2.1053 FIELD STRENGTH OF SPURIOUS RADIATION

DEC. 13, 2001
AAL *h*

MKR 4.948 GHz
62.20 dB μ V



7.1 Field Strength Calculation

If a preamplifier was used during the Radiated Emission Testing, it is required that the amplifier gain must be subtracted from the Spectrum Analyzer (Meter) Reading. In addition, a correction factor for the antenna, cable used and a distance factor, if any, must be applied to the Meter Reading before a true field strength reading can be obtained. In the automatic measurement, these considerations are automatically presented as a part of the print out. In the case of manual measurements and for greater efficiency and convenience, instead of using these correlation factors for each meter reading, the specification limit was modified to reflect these correlation factors at each frequency value so that the meter readings can be compared directly to the modified specification limit. This modified specification limit is referred to as the "Corrected Meter Reading Limit" or simply the CMRL, which is the actual field strength present at the antenna. The quantity can be derived in the following manner:

$$\text{Corrected Meter Reading Limit (CMRL)} = \text{SAR} + \text{AF} + \text{CL} - \text{AG} - \text{DC}$$

Where, SAR = Spectrum Analyzer Reading

AF = Antenna Factor

CL = Cable Loss

AG = Amplifier Gain (if any)

DC = Distance Correction (if any)

Assume the following situation: A meter reading of 29.4 dBuV was obtained from a Class A computing device measured at 83 MHz. Assume an antenna factor of 9.2 dB, a cable loss of 1.4 dB and amplifier gain of 20.0 dB at 83 MHz. The final field strength would be determined as follows:

$$\text{CMRL} = 29.4 \text{ dBuV} + 9.2 \text{ dB} - 1.4 \text{ dB} - 20 \text{ dB/M} - 0.0 \text{ dB}$$

$$\text{CMRL} = 20.0 \text{ dBuV/M}$$

This result is well below the FCC and CSA Class A limit of 29.5 dBuV/m at 83 MHz.

For the manual mode of measurement, a table of corrected meter reading limit was used to permit immediate comparison of the meter reading to determine if the measure emission amplitude exceeded the specification limit at that specific frequency.

8 FREQUENCY STABILITY

Report No. SC107952

Test Conditions: FCC 76.861

Photos taken? ☒ Yes

- ☒ SR 2, Shielded Room, 12' x 24' x 10', Metal Chamber
☒ Canyon 2, Open Site ☒ 3 meter ☐ 10 meter

Test Equipment Used:

Model Number	Prop. #	Description	Manufacturer	Serial No.	Cal. Date	2.1046	2.1047	2.1049	2.1051	2.1055	2.1053
hp8586B	721	Spectrum Analyzer	Hewlett Packard	2542A12099	8/21/02						
ESVS20	427	EMI Receiver	Rohde & Schwarz	830350/006	12/8/02						
hp3314A	133	Signal Generator	Hewlett Packard	2151A03391	4/3/02						
PreAmp 2-20 GHZ	719	PreAmp	TUV Product Service	719	3/26/02						
3115	453	Antenna, Horn	Electro Mechanics Co	5412-4364	12/1/03						
LPB2520/A	739	Antenna	Antenna Research	1170	3/21/02						

TÜV
PRODUCT SERVICE

Limit = 0.005% RBW = 10 kHz VBW = 30 kHz

Tested By: A. LAUDAN
Printed


Signature

FREQUENCY STABILITY

Test Report #: SC-108037 Test Area: TR-2
 Test Method: FCC Part 2.10.55 Date: 20 Dec 2001
FCC Part 24.861(e)4 EUT POWER:
☐ 230 Vac/50 Hz ☐ 120 Vac/60 Hz
 EUT Model #: BH800 Belt-Pac ☒ Other: 5VDC Nominal
 EUT Description: Belt-Pac COMMUNICATOR
 NOTES: NORMAL TRANSMIT MODE
LIMIT = 0.005%



Temperature: 22 °C
 Air Pressure: 100.3 kPa
 Relative Humidity: 41 %
1 of 2

TEST LEVEL		FREQUENCY	DURATION	FREQ. ERROR %	TEMP °C	COMPLIES		REMARKS
						YES	NO	
16924	30 MIN	0	25	✓				Stabilized at Room Temp
16922	30 MIN	0.00114	-30	✓				SOAK
16936	1 "	0.00111		✓				
16947	2 "	0.00109		✓				
16958	5 "	0.00107	↓	✓				
16965	10 "	0.00107	-30	✓				
17153	10	0.00108	-20	✓				SOAK
17170	1	0.00064		✓				
17183	2	0.00061		✓				
17260	5	0.00058	↓	✓				
17206	10	0.00056	-20	✓				
17381	10	0.00021	-10	✓				SOAK
17383	1	0.00020		✓				
17387	2	0.00020		✓				
17400	5	0.00017	↓	✓				
17399	10	0.00017	-10	✓				
17470	10	0.00017	0	✓				SOAK
17474	1	0.00002		✓				
17476	2	0.00002		✓				
17480	5	0.00001	↓	✓				
17484	10	0.00000	0	✓				
17509	10	-0.00005	+10	✓				SOAK
17512	1	-0.00006		✓				
17511	2	-0.00005		✓				
17513	5	-0.00006	↓	✓				

Tested By: DAVID T. BERNARDIN
 Printed

David T. Bernardin
 Signature

Test Report #: SC-108037 Test Area: TR-2
Test Method: FCC Part 2, 1055 Date: 20 DEC 2001
FCC PART 74.261(k) 4
EUT Model #: BH800 Belt-Pac EUT POWER:
☐ 230 Vac/50 Hz ☐ 120 Vac/60 Hz
☒ Other: 5VDC NOMINAL
EUT Description: BELT-PAC COMMUNICATOR
NOTES:



Relative Humidity: 41 %

2 of 2

TEST LEVEL		FREQUENCY %	TEMP °C	COMPLIES		REMARKS
FREQ. MHz	DURATION			YES	NO	
493 17515	10 MIN	-0.00006	+10	✓		
17505	10 "	-0.00004	+20	✓		
17503	1	-0.00004		✓		
17506	2	-0.00004		✓		
17504	5	-0.00004	↓	✓		
17502	10	-0.00004	+20	✓		
17476	10	0.00002	+30	✓		
17477	1	0.00001		✓		
17475	2	0.00002		✓		
17476	5	0.00002	↓	✓		
17476	10	0.00002	+30	✓		
17465	10	0.00002	+40	✓		
17465	1	0.00002		✓		
17467	2	0.00003		✓		
17466	5	0.00004	↓	✓		
17467	10	0.00003	+40	✓		
17538	10	-0.00011	+50	✓		
17542	1	-0.00012		✓		
17539	2	-0.00011		✓		
17542	5	-0.00012	↓	✓		
17545	10	-0.00012	+50	✓		


Signature

9 ATTESTATION STATEMENT

All tests according to *FCC Part 2, Paragraphs 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055; and Part 74, Paragraph 74.861(e)* were

☒ - Performed

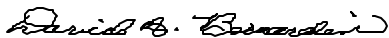
☐ - **Not** Performed

The Equipment Under Test

☒ - **Fulfills** the *FCC Part 2, Paragraphs 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055; and Part 74, Paragraph 74.861(e)* requirements.

- TÜV PRODUCT SERVICE, INC. -

Responsible Engineer:

A handwritten signature in cursive script, reading "David B. Bernardin".

Dave Bernardin (EMC Engineer)