

**XEROX**

**Test Plan / Report**

EMC Group Compliance Log Number: EMC07025

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# XEROX®

## EMC Test Group

FCC Part 15, Subpart C and Industry Canada RSS-210 Compliance Report for  
Xerox Corporation Short Range Radio Frequency Identification (RFID) Device  
Model: IGEN

**Judgement:** The Equipment Under Test (EUT) met the requirements specified in FCC Part 15, Subpart C, Sections 15.207, 15.209 and 15.225, and Industry Canada RSS-GEN, Sections 6 and 7.2.2.



Accreditation Certificate Number: 1248-01  
Electrical (EMC) Testing

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. The client is hereby notified that products, materials or other items in this report are in no way approved or endorsed by A2LA unless A2LA explicitly permits such endorsement or approval.

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**Test Plan / Report**  
 EMC Group Compliance Log Number: EMC07025

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**For**

EUT NAME	TEST PLAN NUMBER	DATE
IGEN	EMC2007025	November 28, 2007

**Abstract:**

This report documents the testing completed on an RFID Model IGEN as supplied by the client. The EUT was found to conform with the Federal Communications Commission, and Industry Canada regulatory limits for an intentional radiator and low power licence-exempt radiocommunication device, respectively. FCC is an acronym for "Federal Communications Commission. The FCC acronym is used throughout the document in lieu of the CFR 47 Part 15 Subpart C terminology. The IC acronym is used throughout the document in lieu of the Industry Canada RSS-GEN and RSS-210 terminology.

**Summary of Results**

Test	Result	Modifications required to pass
Conducted Emissions	Pass	AC Line filter
Radiated Emissions	Pass	None

	NAME	TITLE	SIGNATURE	DATE
<b>Prepared By</b>	David Spencer	EMC Engineer	<i>David Spencer</i>	11/29/07
<b>Approved By</b>	Gary E. Myers	EMC Group Manager	<i>Gary E Myers</i>	11/29/07

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**TEST PLAN SECTIONS 1-8**

**1 CLIENT INFORMATION**

	<b>CLIENT</b>
<b>Company</b>	Xerox Corporation
<b>Address</b>	800 Phillips Road, Building 207, 2 <sup>nd</sup> Floor, cube 460, Webster, NY 14580
<b>Telephone</b>	(585) 422-5724
<b>E-Mail</b>	Marty Oksenhorn@xerox.com
<b>Contact</b>	Marty Oksenhorn

**2 EMC TEST LABORATORY**

	<b>EMC LABORATORY</b>
<b>Company</b>	Xerox Corporation
<b>Address</b>	800 Phillips Road, Building 205-99P, Webster, NY 14580 USA
<b>Telephone</b>	(585) 422-4120
<b>E-Mail</b>	gary.myers@xerox.com
<b>Contact</b>	Gary E. Myers

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### 3 EQUIPMENT UNDER TEST

#### 3.1 Identification of EUT

DESCRIPTION	MANUFACTURER	MODEL NAME	SERIAL NUMBER
RFID	Xerox Corp	IGEN	79153-6

#### 3.2 Identification of Tested Optional Devices / Accessories

DESCRIPTION	MANUFACTURER	MODEL NAME	PRODUCT CODE	SERIAL NUMBER
None	-	-	-	-

#### 3.3 Physical Information

DEVICE	HEIGHT (Meters)	WIDTH (Meters)	LENGTH (Meters)
RFID	0.01	0.1	0.1

#### 3.4 Interface Ports

Port Type	Port Description	Connected		Connector Type	Cable Type	Cable Length
		From	To			
10 pin	DC input/ signal	Control PWBA & Power Supply	RFID	Molex	Unshielded	1M
6 pin	DC input/ signal	Control PWBA & Power Supply	RFID	Molex	Unshielded	1M

#### 3.5 Description of the EUT

The EUT is a 13.56Mhz Short Range Radio Frequency Identification (RFID) Reader/Writer Device that uses inductive loop coupling and an integral transmitter/receiver for information exchange between the host Xerox printing system and a passive tag placed on an internal Customer Replaceable Unit (CRU) such as a toner cartridge. The EUT is intended for use within a copier or printer placed in a Class A (EME) business environment. The EUT is intended to communicate within the host equipment only.

Operating frequency: 13.56MHz +/-7KHz.  
 Number of Channels: One  
 Modulation: 10% ASK (Amplitude Shift Keying)  
 BPSK (Binary Phase Shift Keying)  
 Antenna: Two Loop Inductive Coil  
 Field Strength: 2.7uA/m (at 3m) Maximum  
 Power Supply: 7.5 and 5Vdc, 100mA  
 Duty Cycle: System-Defined by the host control algorithm  
 ASK\_ Based on 106Kbits data rate

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**3.6 Potential Emission Sources**

The highest oscillator present during this testing was: 13.56MHz from the RFID.

**3.7 New Parts or Modifications Incorporated in the EUT**

\*Fill this section out for re-compliance testing only.

PART NUMBER	DESCRIPTION
None	N/A

**3.8 Support Equipment**

DESCRIPTION	MANUFACTURER	MODEL NAME	SERIAL NUMBER
Host Laptop	Compaq	Armada 1573DM	J824BZW6M787
Power Supply	Mean Well	ES25B07-00754	None

**4 TEST SPECIFICATIONS & PROCEDURES**

**4.1 General**

FCC Part 15	CFR 47 Part 15, Subpart C.
Industry Canada, RSS-210 Issue 7, June 2007	Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands).
Industry Canada, RSS-Gen Issue 2: June 2007	General Requirements and Information for the Certification of Radiocommunication Equipment.

**4.2 Methods and Procedures**

ANSI C63.4: 2003	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
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**4.3 Test Equipment**

ANSI C63.4: 2003	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
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**4.4 Test Facility**

The EMC Group main offices are located at Xerox Corporation's Building 843, 800 Salt Road, Webster, NY 14580. The Semi-Anechoic chamber test site, building 199, located in Webster, NY was used to collect the data. This facility has been fully described in a report submitted to the FCC and accepted in a letter dated January 09, 2007 (Registration # 91070); additionally, submitted to Industry Canada and accepted in a letter dated February 17, 2005 (File # IC 482).

**4.5 Test Methodology**

**4.5.1 Conducted Emissions**

The EUT is configured as detailed in ANSI C63.4:2003 figures 10a & 10b. The EUT power cord is connected to a grounded Line Impedance Stabilization Network (LISN) for measurement. The measurement LISN(s) are powered through grounded AC mains line filters. If the EUT has multiple power cords, each will be powered through a LISN and measured separately. Any separately powered host equipment will be powered through a LISN for isolation purposes. The emissions are measured with a compliant EMI receiver using 9KHz measurement bandwidth. The initial scan data is collected using the peak and average detectors of the receiver from the range of 150KHz-30MHz. The peak scan is compared to the Quasi-peak or broad-band limit, while the average scan is compared to the average or narrow-band limit. The conducted emissions from the EUT were maximized for operating mode as well as cable and peripheral placement. In cases where the peak scan data is within 6dBuV of the Quasi-peak limit, the Quasi-peak detector is used to record the final test results.

**4.5.2 Radiated Emissions**

The EUT is configured as detailed in ANSI C63.4: 2003 figures 11a & 11b on the center of the 3/10 meter turn-table within the Xerox Corporation's 10 meter Semi-anechoic chamber. A compliant EMI receiver was used to make all measurements. The EME receiver is used in the peak detect mode with the "Max Hold" feature activated. In this mode, the receiver records the highest measured reading over the bands of 30MHz-200MHz and 200MHz-1GHz while the turntable is rotated. At any emission within 10dBuV/m of the limit, the Max Hold peak reading is measured using the Quasi-peak detector at the worse case azimuth. At this point the antenna is raised and lowered. The quasi-peak detector was used for all final readings up to 1 GHz recorded in this report. The effective measurement bandwidth used for the radiated emissions test was 120 kHz. Broadband biconical and log periodic antennas were used as transducers during the measurement. The biconical antenna was used from 30 MHz to 200 MHz, and the log periodic antenna was used from 200 MHz to 1 GHz. For testing with the magnetic loop antenna; the loop antenna remains at 1 meter height from the center of the loop to the floor and is rotated about its vertical center axis while the signal level is maximized. The angle, height, and polarity are then recorded. The procedure is then repeated with the antenna placed in the horizontal polarity. The emissions are maximized as described for the vertical polarity. The Semi-Anechoic test chamber site of the XEROX CORPORATION was used for radiated emission testing. This test site is set up according to CISPR 16-1: 1999. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The EUT was tested at a 10 meter test distance to obtain final test data. EUTs with clock frequencies equal to or greater than 108 MHz are evaluated against the applicable FCC limits above 1 GHz using a 1 MHz resolution bandwidth. Both peak and average detectors are used to determine compliance.

The field strength is calculated by adding the Antenna Factor, Attenuator Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows.

$FS = RA + AF + CF + ATF - AG$

- where FS = Field Strength
- RA = Receiver Amplitude
- AF = Antenna Factor
- CF = Cable Attenuation Factor
- ATF = Attenuator Factor
- AG = Amplifier Gain

Assume a receiver reading of 52.5 dBuV/m is obtained. The Antenna Factor of 6.4 dB, a Cable Factor of 1.1 dB and an Attenuator Factor of 1 dB is added. The Amplifier Gain of 29 dB is subtracted, giving a field strength of 32 dBuV/m.

$FS = 52.5 + 6.4 + 1.1 + 1 - 29 = 32 \text{ dB}\mu\text{V/m}$

The 32 dBuV/m value can be mathematically converted to its corresponding level in uV/m.

Level in uV/m = Common Antilogarithm [(32 dBuV/m)/20] = 39.8 uV/m



## 5 CONFIGURATION & OPERATION OF EUT DURING TEST

### 5.1 Configuration

CONFIGURATION	RATIONALE
RFID with coupler tag. 1 meter unshielded, terminated signal cable.	This configuration allows the RFID to operate in a stand-alone mode.

OPTIONAL DEVICE	RATIONALE FOR NOT TESTING
None	N/A

### 5.2 Operating Environment

DEVICE	SUPPLY VOLTAGE	SUPPLY FREQUENCY	PHASE	CURRENT RATING
RFID	7.5/5 V	DC	N/A	150mA

TEMPERATURE	RELATIVE HUMIDITY
22 °C ± 5%	45% ± 5%

### 5.3 Special Operating Requirements

REQUIREMENT	RATIONALE FOR SPECIAL REQUIREMENT
None	N/A

### 5.4 Operating Modes

OPERATING MODE	RATIONALE FOR OPERATION MODE
RF on: Read-Write operation from RFID tag, standard ASK modulation	Normal usage of EUT

### 5.5 Monitoring of the EUT

The performance of the EUT shall be monitored using a closed circuit TV system in the following areas.

MONITOR	OBSERVATION
PC Interface	To monitor any malfunctions when exercising RFID

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## 6 DETAILED TEST PLAN

### 6.1 Test Plan

#### 6.1.1 Conducted Emissions

PORT	METHOD	CLASS
AC Mains Inlet	ANSI C63.4: 2003	B

#### 6.1.2 Radiated Emissions

PORT	METHOD	CLASS
Enclosure	ANSI C63.4: 2003	B

#### 6.1.3 Frequency Stability

PORT	METHOD
Enclosure	ANSI C63.4: 2003

## 7 EMC MODIFICATION DETAILS

Required in order to meet all applicable test requirements

PART NUMBER	DESCRIPTION
6EH1	Corcom AC Line Filter (min. insertion loss required 10Mhz-20MHz: 20dB)

**8 EMISSIONS COMPLIANCE CERTIFICATION**

**8.1 Judgment**

The EUT was found to comply with the regulatory requirements as specified in FCC Part 15, Subpart C, Sections 15.207, 15.209 and 15.225, and Industry Canada RSS-GEN, Sections 6 and 7.2.2.

**8.2 Filing**

The Data has been filed under EMC Group Compliance Data Log Number: EMC07025

**8.3 Test Facility**

The test site located at Xerox building 199, Webster, NY was used to collect the data. The test site met the site attenuation measurements in accordance with the methods / requirements as specified in ANSI C63.4: 2003.

Conducted Emissions:	<u>David Spencer</u> David Spencer, EMC Engineer EH&S / EMC Test Group	Date of Testing: <u>11/13 /07</u>
Radiated Emissions:	<u>David Spencer</u> David Spencer, EMC Engineer EH&S / EMC Test Group	Date of Testing: <u>11/13/07</u>
Frequency Stability:	<u>David Spencer</u> David Spencer, EMC Engineer EH&S / EMC Test Group	Date of Testing: <u>11/14/07</u>

These signatures serve as a check for the accuracy of the data transferred from the data sheet to this report.

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## 9 CONDUCTED EMISSIONS

### 9.1 *Worse Case Run Mode*

OPERATING MODE	RATIONALE FOR OPERATION MODE
RF on: Read-Write operation from RFID tag, standard ASK modulation	Normal usage of EUT

### 9.2 *Measured Data*

Conductor	Frequency [MHz]	Measured Value* [db(μV)]	Margin dB	FCC Part 15 15.207 Average Limit [db(μV)]	FCC Part 15 15.207 Quasi-Peak Limit [db(μV)]
Neutral	0.181	52.2/34.6**	11.3	53.5	63.5
Neutral	0.366	42.8/33.6**	15.4	49.0	59.0
Neutral	0.690	35.6/26.7**	19.3	46.0	56.0
Neutral	0.825	34.8/25.8**	20.2	46.0	56.0
Neutral	13.564	37.2/35.4**	14.6	50.0	60.0
Neutral	27.132	29.7/26.9**	23.1	50.0	60.0
Line 1	0.159	53.4/16.8**	12.4	55.8	65.8
Line 1	0.370	45.2/38.6**	10.3	48.9	58.9
Line 1	0.6495	38.4/30.9**	15.1	46.0	56.0
Line 1	0.7845	37.5/29.1**	16.9	46.0	56.0
Line 1	13.564	39.3/37.2**	12.8	50.0	60.0
Line 1	27.132	32.5/29.9**	20.1	50.0	60.0

120Vac 60Hz 150KHz-30MHz Measurements

- \* All readings are peak unless stated otherwise.
- \*\* Identifies an average reading.
- \*\*\* Identifies a quasi-peak reading.

**10 RADIATED EMISSIONS**

**10.1 Worst Case Run Mode**

OPERATING MODE	RATIONALE FOR OPERATION MODE
RF on: Read-Write operation from RFID tag, standard ASK modulation	Normal usage of EUT

**10.2 Measured Data**

Frequency [MHz]	EUT Orientation	EUT Angle [Degrees]	Corrected Reading* [db(μV/m)]	Margin dB	10 Meter Limit* [db(μV/m)]
13.5663	X	0	47.1	46.4	93.5
27.132	X	0	28.4	10.6	39.0
13.5663	Y	0	46.9	46.6	93.5
27.132	Y	24	28.7	10.3	39.0
13.5663	Z	0	32.2	61.3	93.5
27.132	Z	35	28.0	11	39.0

**Measurements 9KHz-30MHz**

Frequency [MHz]	EUT Orientation	Antenna Height [Meters]	Antenna Polarity	EUT Angle [Degrees]	Corrected Reading* [db(μV/m)]	Margin	3 Meter Limit [db(μV/m)]
40.675	X	1	V	37	25.7	14.3	40.0
54.241	X	1	V	45	25.0	15	40.0
67.804	X	1	V	41	24.1	15.9	40.0
108.505	X	4	H	100	23.7	19.8	43.5
122.070	X	4	H	107	23.0	20.5	43.5
135.635	X	4	H	102	25.9	17.6	43.5
40.675	Y	1	V	35	29.4	10.6	40.0
54.240	Y	1	V	31	21.6	18.4	40.0
67.804	Y	1	V	43	23.0	17	40.0
108.505	Y	4	H	110	22.6	20.9	43.5
122.070	Y	1	V	100	24.4	19.1	43.5
135.635	Y	4	H	120	28.5	15	43.5
40.675	Z	1	V	30	26.1	13.9	40.0
54.240	Z	1	V	35	23.7	16.3	40.0
67.804	Z	1	V	42	23.6	16.4	40.0
108.505	Z	4	H	100	24.3	19.2	43.5
122.070	Z	4	H	105	24.6	18.9	43.5
135.635	Z	4	H	110	25.9	17.6	43.5

**Measurements for 30-1000 MHz**

- \* All readings are quasi-peak unless stated otherwise.
- \*\* Identifies an average reading.
- \*\*\* Identifies a peak reading.

## 11 Frequency Stability

### 11.1 Run Mode

OPERATING MODE	RATIONALE FOR OPERATION MODE
RF on: Read/Write operation from RFID tag: Standard ASK modulation	Typical operation of Igen Coupler

### 11.2 Measured Data

Frequency versus Temperature				
Reference Frequency: measured 13.565883 MHz at 20°C				
Temperature (Celsius)	Measured Freq. (MHz)	Freq. Drift (Hz)	Freq. Drift (%)	Limit (%)
50	13.565741	-142.00	-0.00105	0.01
40	13.565756	-127.00	-0.00094	0.01
30	13.565782	-101.00	-0.00074	0.01
20	Reference			N/A
10	13.565792	-91.00	-0.00067	0.01
0	13.565792	-91.00	-0.00067	0.01
-10	13.565842	-41.00	-0.00030	0.01
-20	13.56585	-33.00	-0.00024	0.01
-30	13.565858	-25.00	-0.00018	0.01

Frequency versus Voltage				
Reference Frequency: measured 13.559883 MHz at 20°C with 5Vdc				
Measured Voltage ±15% of nominal (5Vdc)	Measured Freq. (MHz)	Freq. Drift (Hz)	Freq. Drift (%)	Limit (%)
5.75	13.565875	-8.00	-0.00006	0.01
4.25	13.565883	0.00	0.00000	0.01
Reference Frequency: measured 13.559883 MHz at 20°C with 7.5Vdc				
Measured Voltage ±15% of nominal (7.5Vdc)	Measured Freq. (MHz)	Freq. Drift (Hz)	Freq. Drift (%)	Limit (%)
8.625	13.565871	-12.00	-0.00009	0.01
6.375	13.565881	-2.00	-0.00001	0.01

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**12 TEST EQUIPMENT**

<b>Type</b>	<b>EMC Group Barcode</b>	<b>Manufacturer / Model Number</b>	<b>Serial Number</b>	<b>Last Calibration Date</b>	<b>Calibration Interval</b>
LISN	036823	Fischer Custom Communications / FCC-LISN-50/250-100-4	9704	10/16/07	1 Year
LISN	036823	Fischer Custom Communications / FCC-LISN-50/250-100-4	9703	10/15/07	1 Year
Temperature & Relative Humidity Sensor	101206	Omega / CT-485B	412000741W	6/9/07	1 Year
EME Receiver	024086	Rohde & Schwarz / ESIB 40	100090	12/7/06	1 Year
RF Preamplifier	031570	Hewlett Packard / 8447D	2944409226	3/5/07	1 Year
RF 6 dB Attenuator	031417	Hewlett Packard / 8491A	34402	3/5/07	1 Year
Biconical Antenna	030862	EMCO / 3109	9303-2891	6/7/07	1 Year
Log Periodic Antenna	030850	EMCO / 3146	9305-3621	6/7/07	1 Year
Magnetic Loop Antenna	034466	Rohde & Schwarz/ HFH2-Z2	880665/005	4/5/07	1 Year
Source DC Supply	19329	Sorensen/ DCR 60-18B	1883	1/25/07	1 Year
Network Analyzer	035504	Hewlett Packard/ 4396B	JP1KE00618	4/24/07	1 Year
High Frequency Probe	0647463	Hewlett Packard/ 85024A	2801A07858	11/27/06	1 Year

### 13 PHOTOGRAPHS and ATTACHMENTS

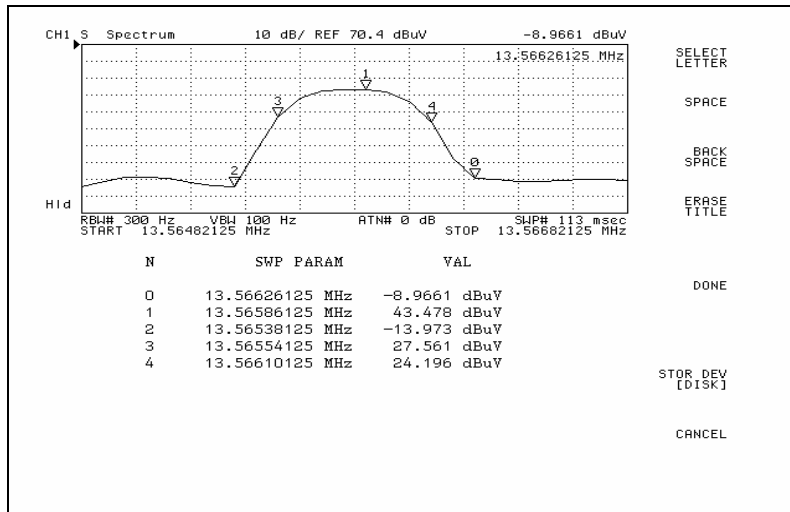


Fig.1  
 Normal Conditions

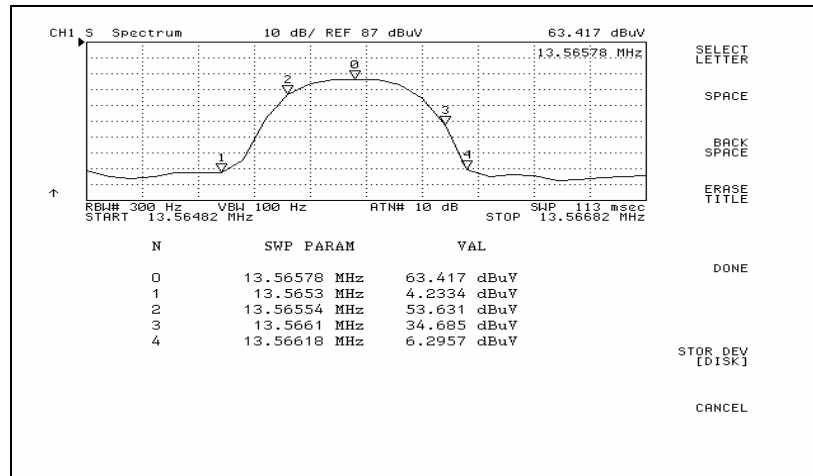


Fig. 2  
 Elevated Voltage & Elevated Temperature



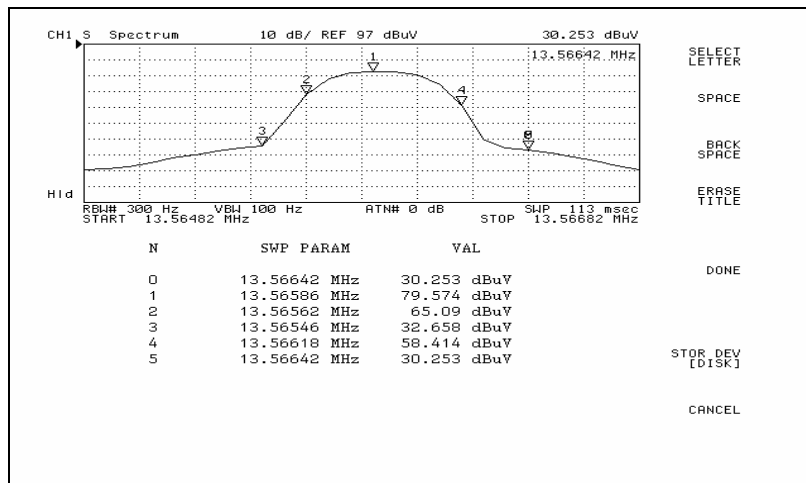


Fig.3  
 Elevated Voltage & Reduced Temperature

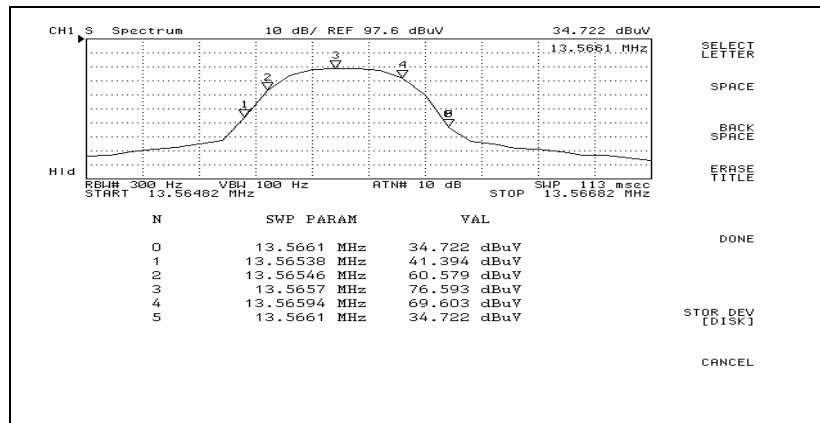


Fig.4  
 Reduced Voltage & Elevated Temperature

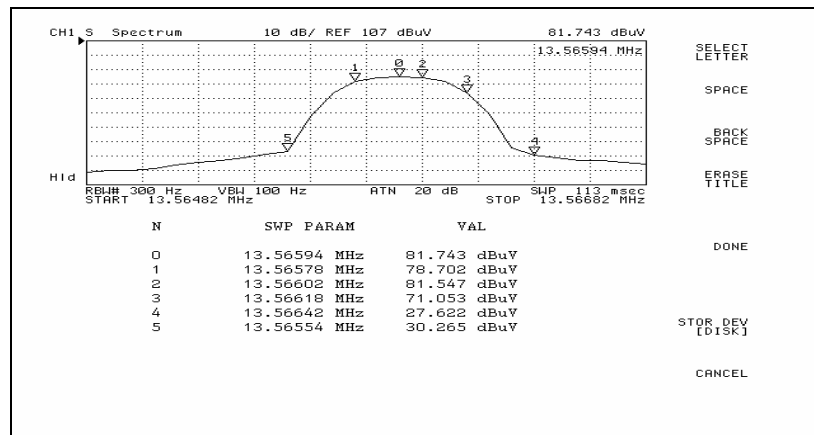


Fig. 5  
 Reduced Voltage & Reduced Temperature

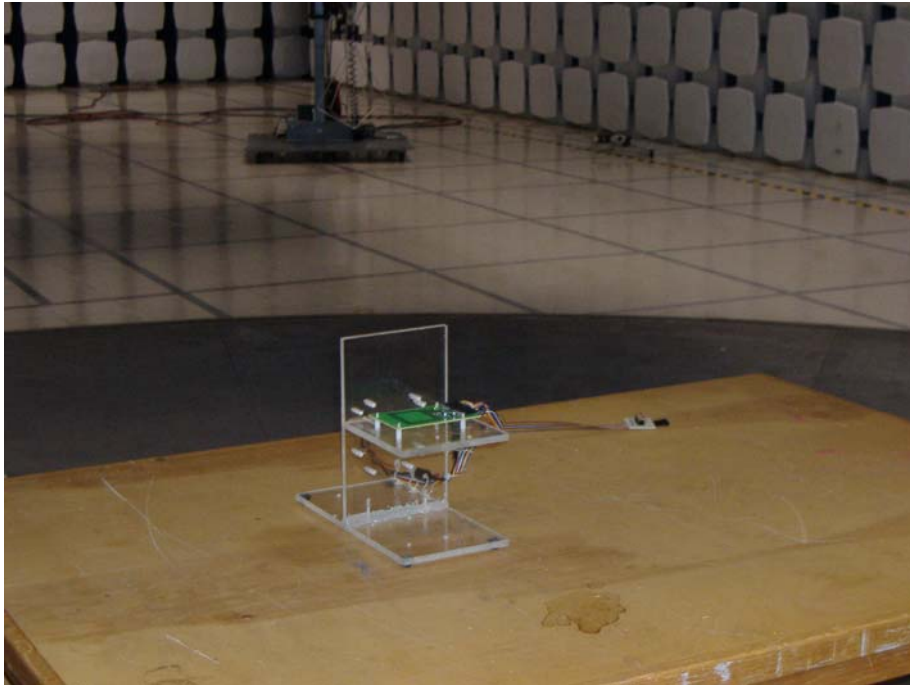


Fig. 5 Photo of Test setup

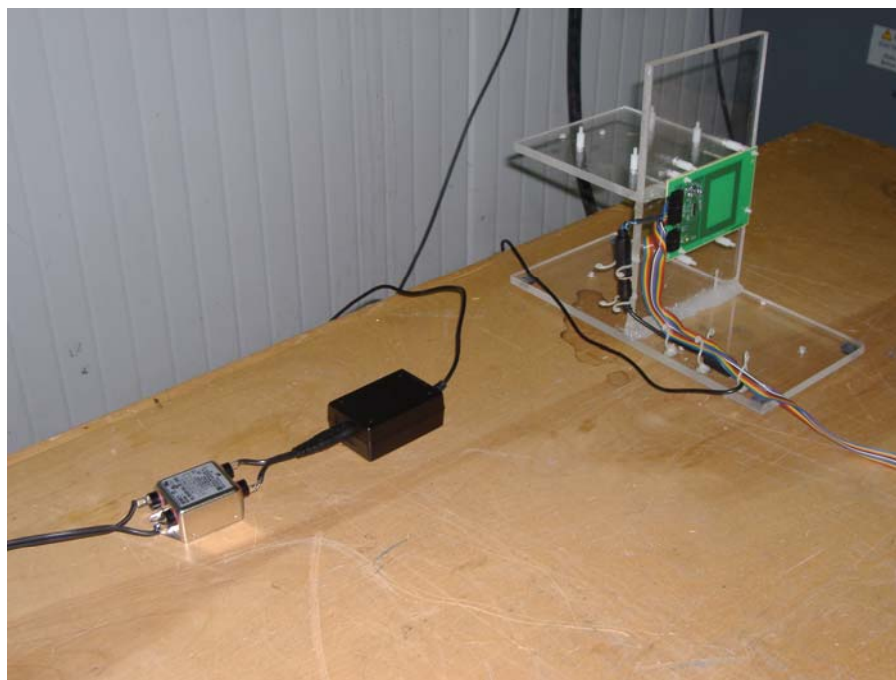


Fig.2  
Conducted Emissions Setup

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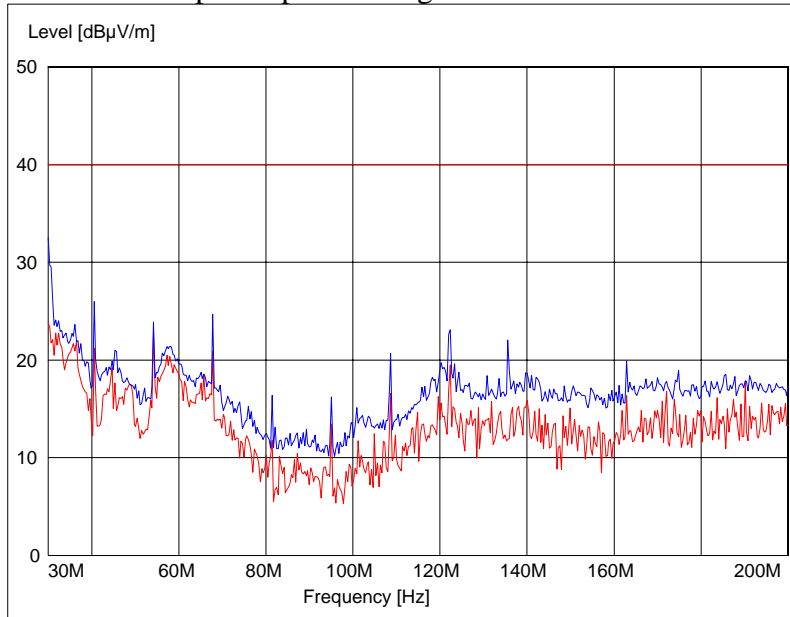


Fig. 3  
Radiated Emissions 30-200MHz Vertical Antenna  
EUT X Axis

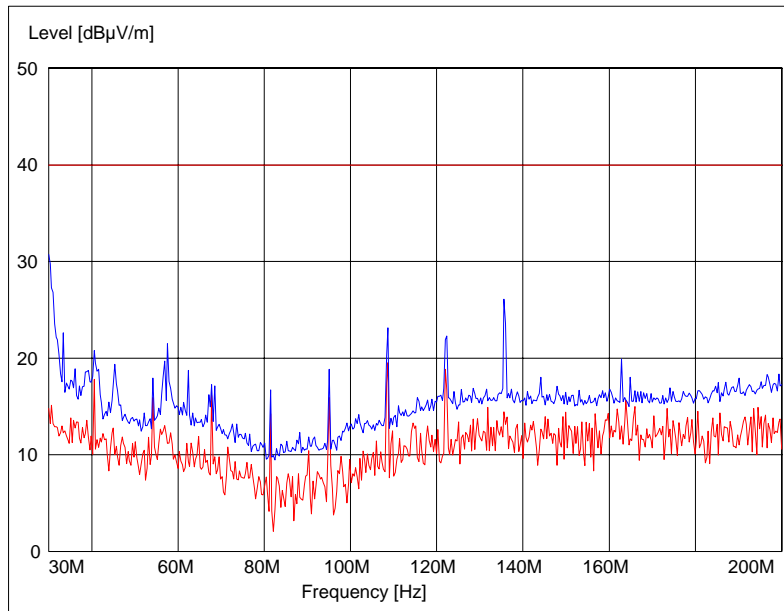
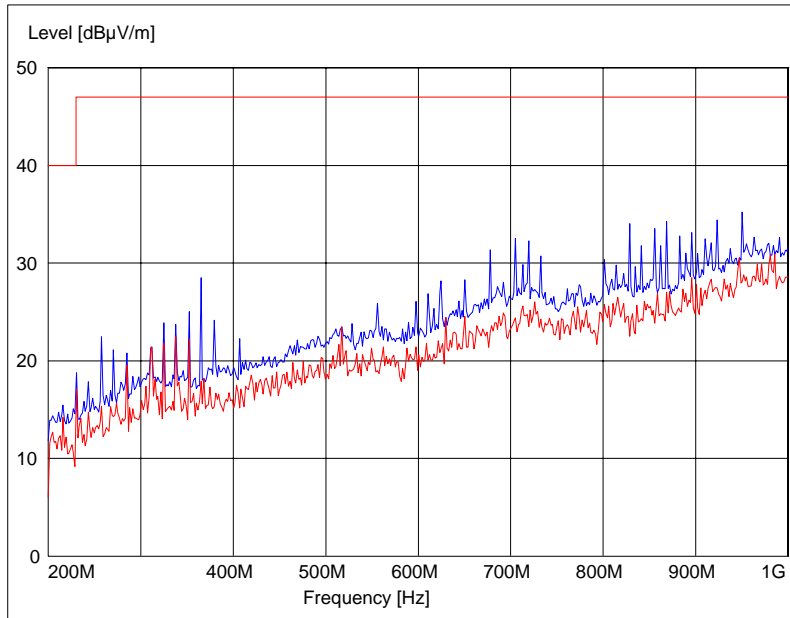
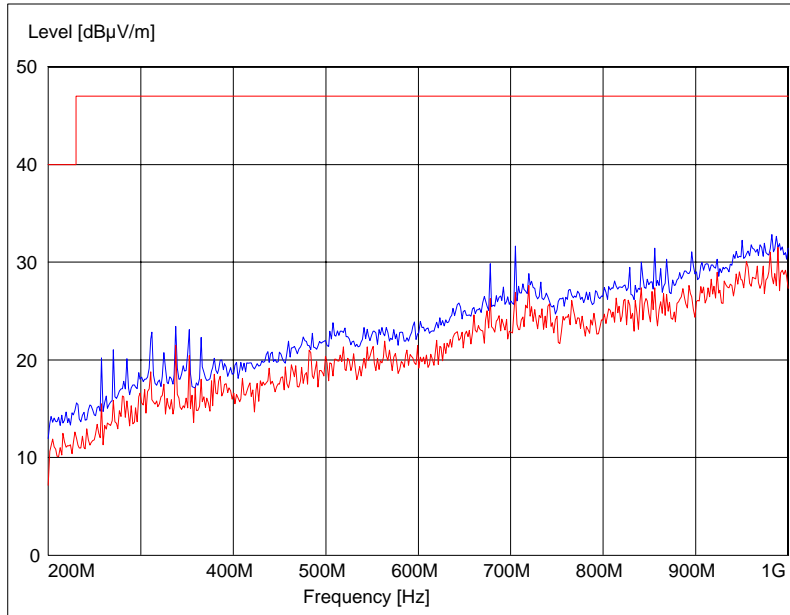


Fig. 4  
Radiated Emissions 30-200MHz Horizontal Antenna  
EUT X Axis



**Fig. 5**  
**Radiated Emissions 200-1000MHz Vertical Antenna**  
**EUT X Axis**



**Fig. 6**  
**Radiated Emissions 200-1000MHz Horizontal Antenna**  
**EUT X Axis**

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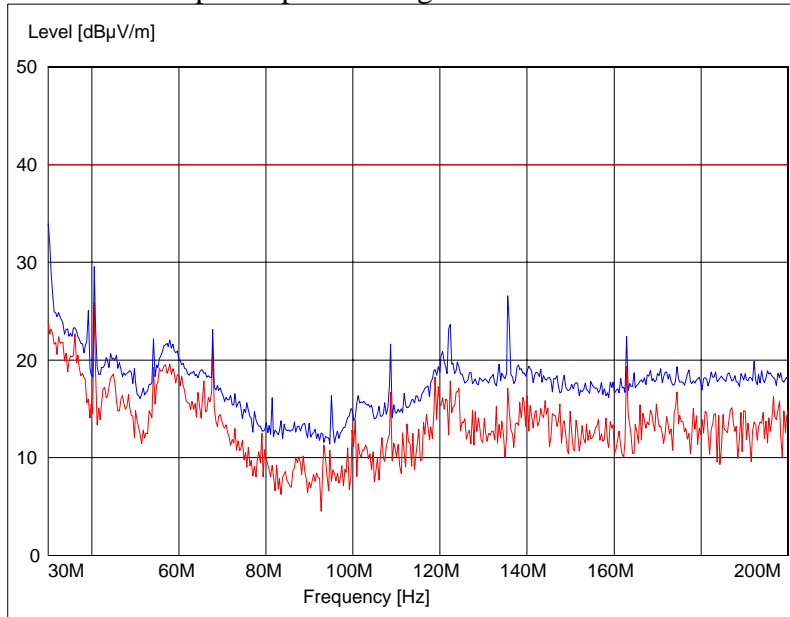


Fig. 7  
Radiated Emissions 30-200MHz Vertical Antenna  
EUT Y Axis

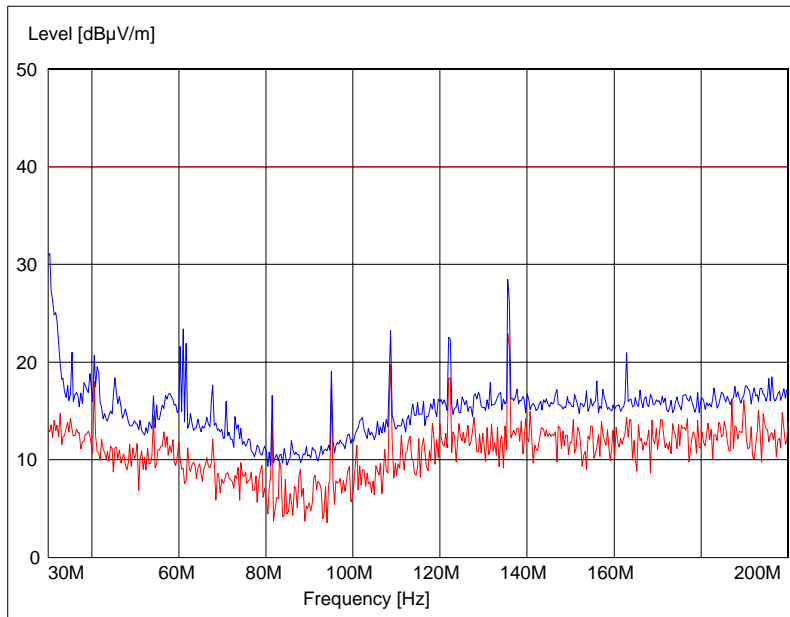


Fig. 8  
Radiated Emissions 30-200MHz Horizontal Antenna  
EUT Y Axis

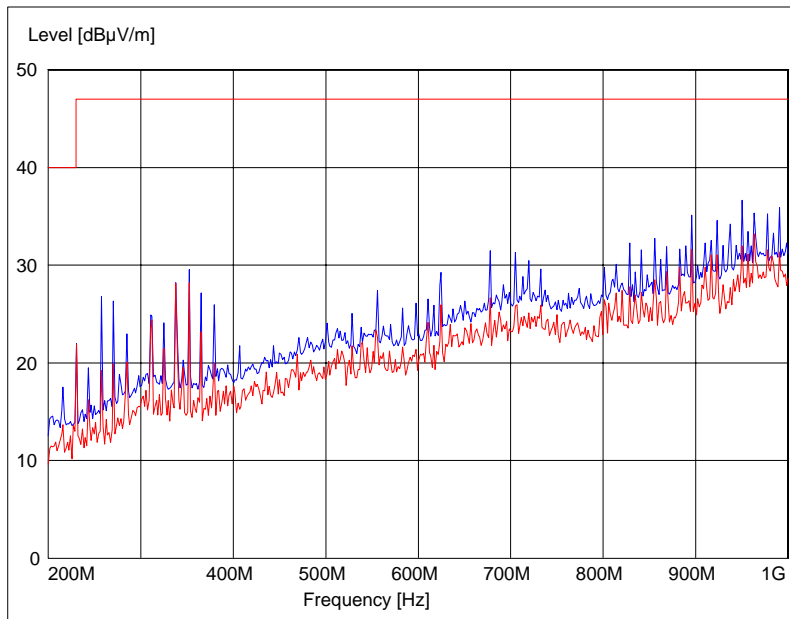


Fig. 9  
Radiated Emissions 200-1000MHz Vertical Antenna  
EUT Y Axis

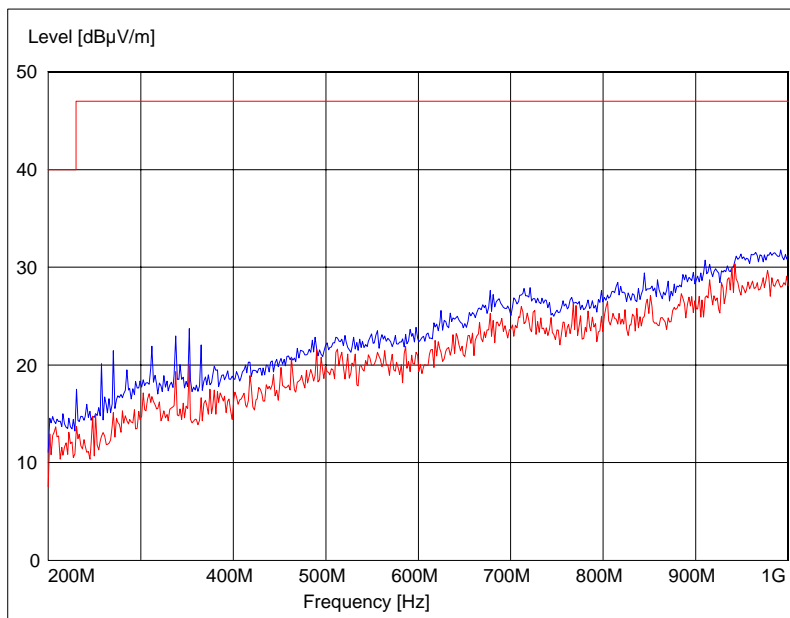


Fig. 10  
Radiated Emissions 200-1000MHz Horizontal Antenna  
EUT Y Axis

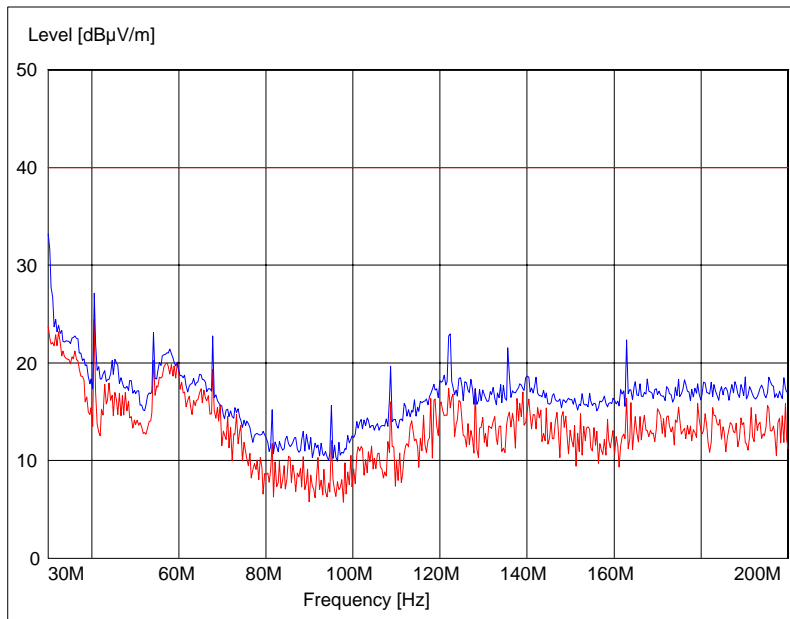


Fig. 11  
Radiated Emissions 30-200MHz Vertical Antenna  
EUT Z Axis

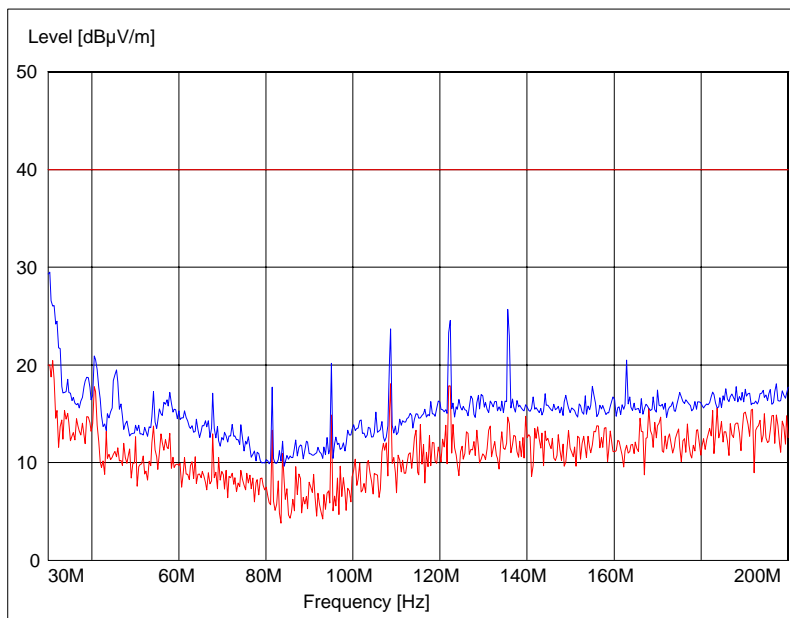


Fig. 12  
Radiated Emissions 30-200MHz Horizontal Antenna  
EUT Z Axis

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**Test Plan / Report**

EMC Group Compliance Log Number: EMC07025

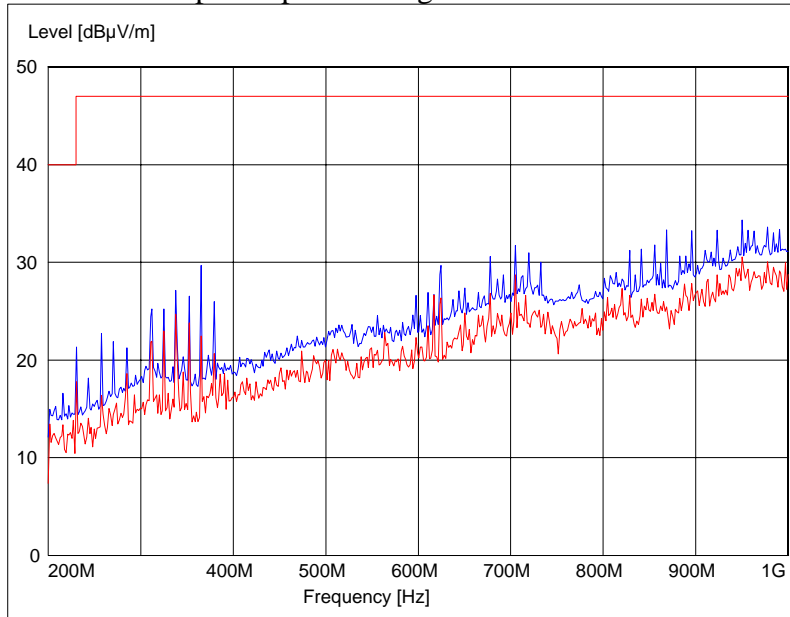


Fig. 13  
Radiated Emissions 200-1000MHz Vertical Antenna  
EUT Z Axis

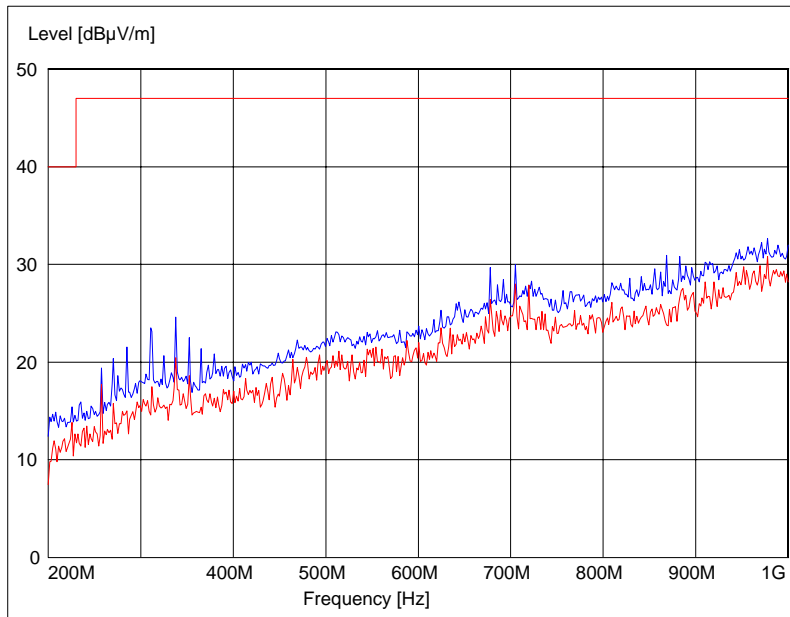


Fig. 14  
Radiated Emissions 200-1000MHz Horizontal Antenna  
EUT Z Axis



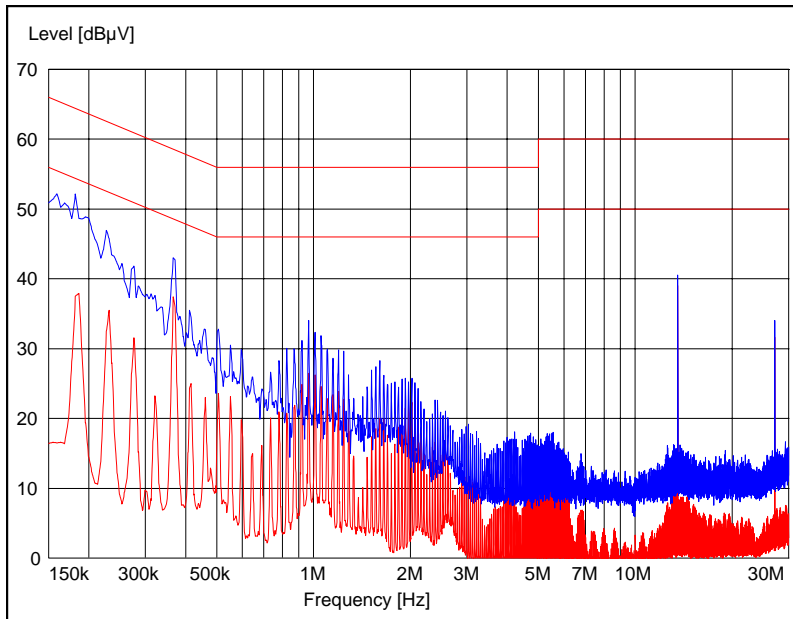


Fig. 15  
150KHz-30MHz Conducted Emissions Neutral

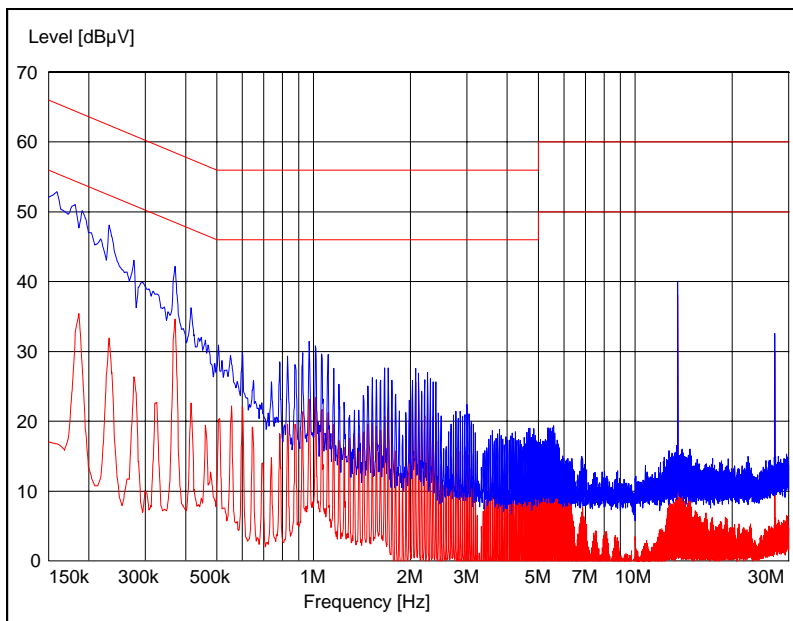


Fig. 15  
150KHz-30MHz Conducted Emissions Hot

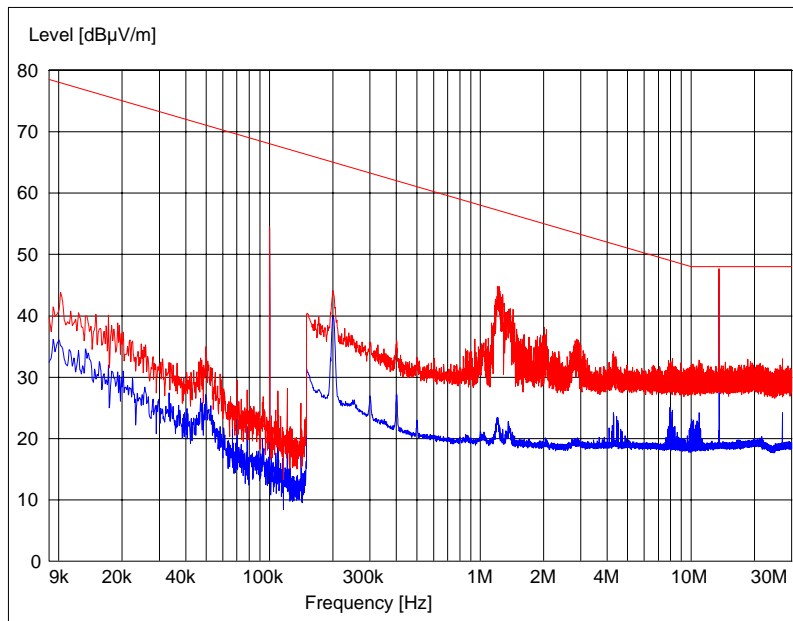


Fig. 17  
EUT in X Orientation 9KHz-30MHz Magnetic Loop Scan

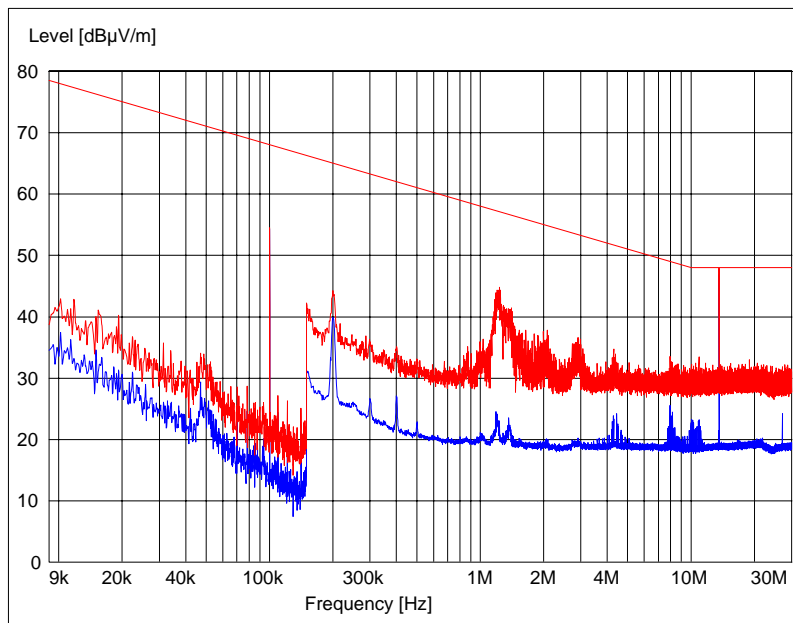


Fig. 18  
EUT in Y Orientation 9KHz-30MHz Magnetic Loop Scan

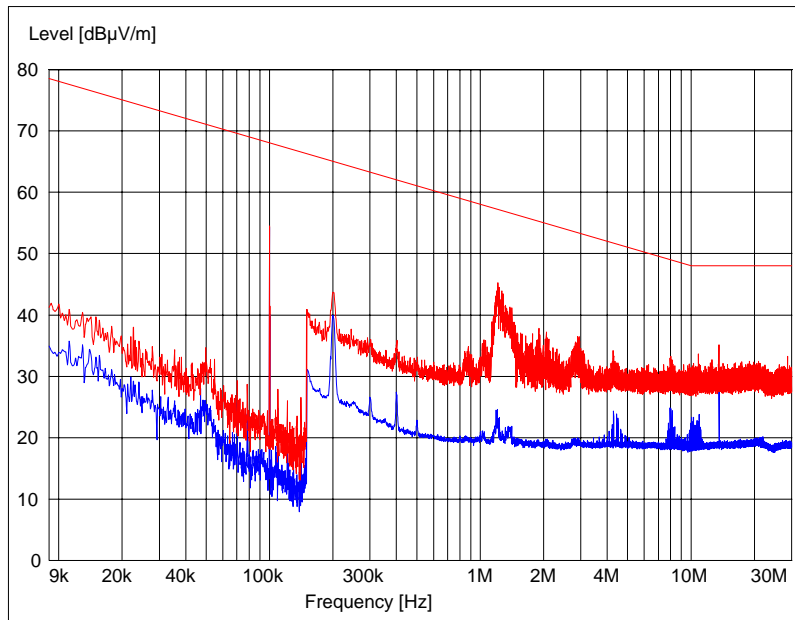


Fig. 19  
EUT in Z Orientation 9KHz-30MHz Magnetic Loop Scan

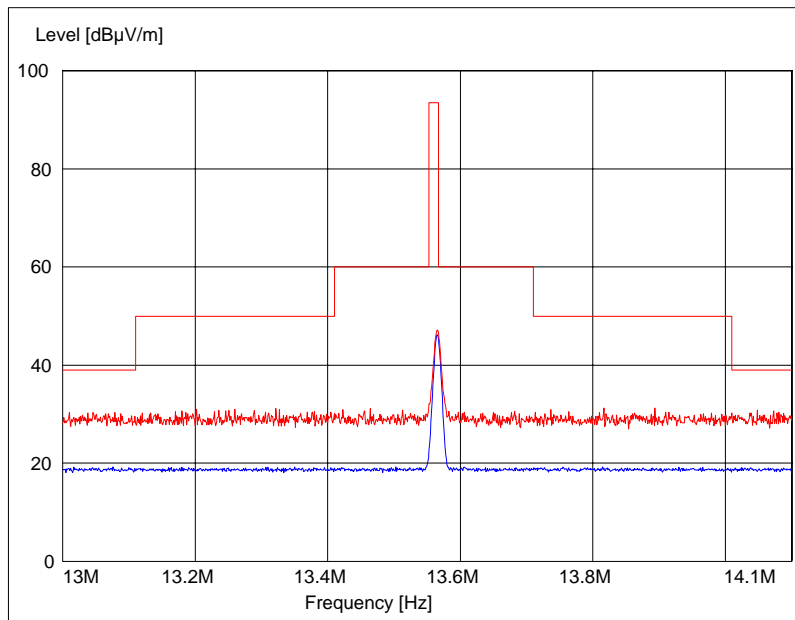
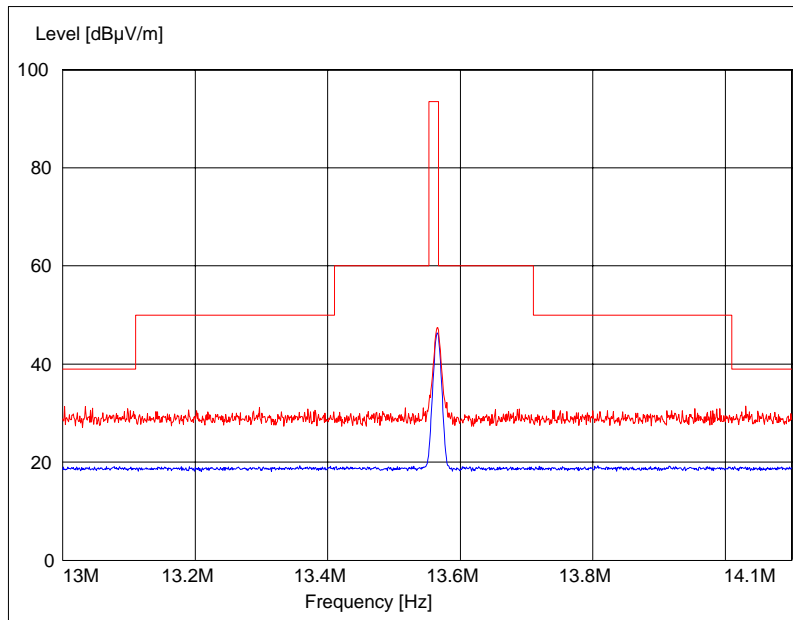
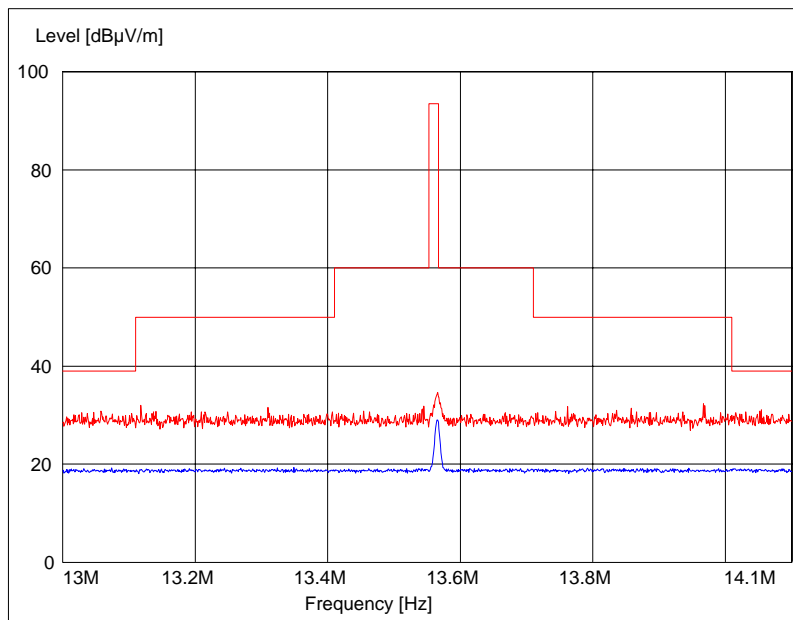


Fig. 20  
EUT in X Orientation 13.56Mhz BW Scan



**Fig. 21**  
**EUT in Y Orientation 13.56Mhz BW Scan**



**Fig. 22**  
**EUT in Z Orientation 13.56Mhz BW Scan**

**14 AMENDMENTS TO THIS REPORT**

No Amendments were made to this test report.