

Report of Measurements.

Measurements were made at Honeywells OATS Measurement Facility at 165 Eileen Way , Syosset , NY 11791 , FCC Registration number : 156835, IC Registration number 4338 Measurements were made in accordance with the procedures and reporting requirements of ANSI C63.4-2004.

The Test Set-Up (C63.4 section 10.1.3) is shown in the attached photograph. The sequence of testing (C63.4 section 10.1.7) for radiated emissions is as follows: A preliminary scan was conducted with the receiver antenna close to the EUT in order to identify the emission characteristics of the EUT (C63.4 section 8.3.1.1). The antenna and EUT were then placed at the proper separation with the EUT positioned on a non-conducting turntable. The EUT was rotated on the turntable to maximize the received signal strength, then the receiver antenna height was varied to further maximize the received reading. Thereafter, the device was again rotated to a peak output position and the antenna height was re-adjusted for maximum received signal. This procedure was re-iterated until there was no further increase in signal level. This procedure was performed with the EUT rotating in three orthogonal planes (C63.4 section 13.1.4.1) to generate a final maximum reading which is recorded on the radiated emissions result sheet. Similar measurements were made on the receiver to ensure compliance as an unintentional radiator. See Exhibit 6 for list of test equipment (C63.4 section 10.1.4).

Note, Spectrum Analyzer resolution bandwidths set as follows;

Video Bandwidth = 3 X RBW

- For radiated emissions below 1 GHz, the RBW = 100kHz. Detector function set to peak.
 - For radiated emissions above 1 GHz, the RBW = 1MHz. Detector function set to peak.
 - For occupied bandwidth measurements, RBW = 100kHz,
- (This is in accordance with the minimum RBW allowed by C63.4, which requires RBW greater than 5% of the FCC required occupied bandwidth spec of 0.25% of center frequency i.e.; $345 \text{ MHz} \times 0.25\% = 862,500 \text{ KHz} \times 5\% = 43,125 \text{ KHz min RBW}$).

THE TEST SETUP PHOTOS are shown in EXHIBIT 5-2.

TX RADIATED EMISSIONS are recorded in EXHIBIT 5-3.

TX OCCUPIED BANDWIDTH is shown in EXHIBIT 5-4

RX RADIATED EMISSIONS are recorded in EXHIBIT 5-5.

CONDUCTED EMISSIONS are recorded in EXHIBIT 5-6.

HONEYWELL SECURITY & CUSTOM ELECTRONICS

165 EILEEN WAY

SYOSSET, NY 11791

EXHIBIT 5-3

FCC ID # CFS8DL6160RF-1

Date : 01/10/2006

Tested by :Azadeh Solhhjoo

Approved by :K.Addy

Test Sample (model) : 6160RF-1

Test method: ANSI C63.4 - 2004

Test specification: FCC Part 15, Sub-part C

Notes: (1) Fo = 345MHz. (2) Detector = Peak (3) Frequency range scanned to 4 GHz.

Emissions not reported were more than 20dB below the specified unit.

[(Meter reading + Cable/Amp factor + Antenna factor) / 20]

(4) Conv. Reading = 10

(5) Corr. Reading = Conv. Reading X Duty Cycle

(6) Six Highest Emissions Recorded

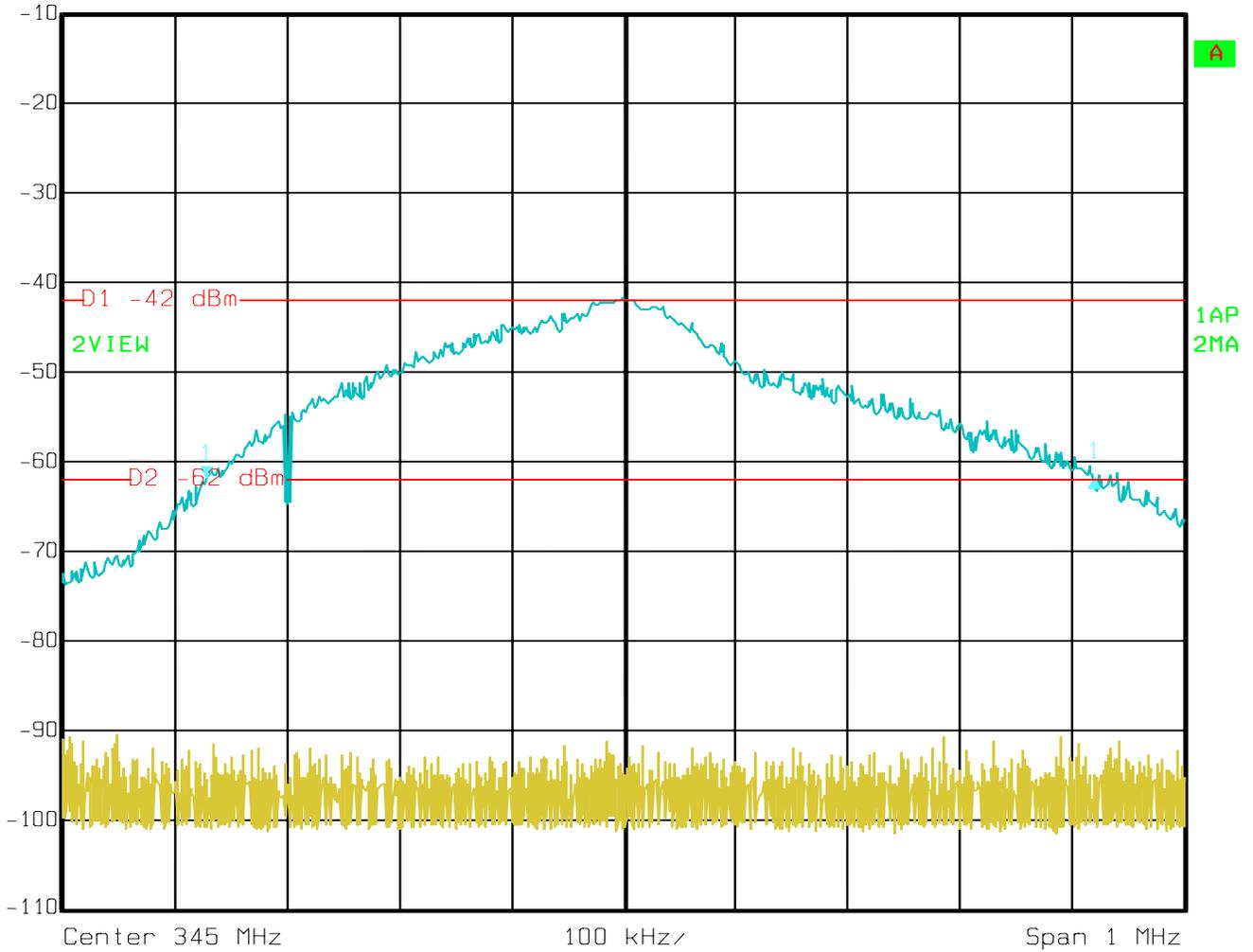
Freq. (MHz)	Antenna Polarity (V/H)	Meter Reading (dB uV)	Cable/Amp Factor (dB)	Antenna Factor (dB/m)	Conv. Reading (uV/M)	Duty Cycle (%)	Corr. Reading (uV/M)	Limit @ 3M (uV/M)
30			CABLE "A"	BICONILOG				729
345	H	77.90	1.3	14.50	48417.2	15.0%	7262.6	7292
690	H	29.70	1.7	18.90	327.3	15.0%	49.1	729
1035	H	24.00	2.2	22.50	272.3	15.0%	40.8	500
1380	H	24.90	2.5	25.40	436.5	15.0%	65.5	500
1725	H	25.60	2.9	27.70	645.7	15.0%	96.8	729
2070	H	25.10	3.2	29.90	812.8	15.0%	121.9	729
2415	H	24.10	3.4	31.80	922.6	15.0%	138.4	729
2760	H	24.70	3.5	32.40	1071.5	15.0%	160.7	500
3105	V	26.10	3.7	32.00	1230.3	15.0%	184.5	729
3450	H	27.40	3.9	32.60	1566.8	15.0%	235.0	729
4000			CABLE "A"	BICONILOG				



Ref Lvl
-10 dBm

Delta 1 [T2]
0.28 dB
791.58316633 kHz

RBW 100 kHz RF Att 0 dB
VBW 300 kHz
SWT 10 ms Unit dBm



Date: 12.JAN.2007 15:03:04

HONEYWELL SECURITY & CUSTOM ELECTRONICS

**165 EILEEN WAY
SYOSSET, NY 11791**

EXHIBIT 5-3

FCC ID # CFS8DL6160RF-1

Date : 01/10/2007

Tested by :Azadeh Solhjo

Approved by :K.Addy

Test Sample (model) : 6160RF-1

Test method: ANSI C63.4 - 2004

Test specification: FCC Part 15, Sub-part C

Notes: (1) Fo = 345MHz. (2) Detector = Peak (3) Frequency range scanned to 4 GHz.

Emissions not reported were more than 20dB below the specified unit.

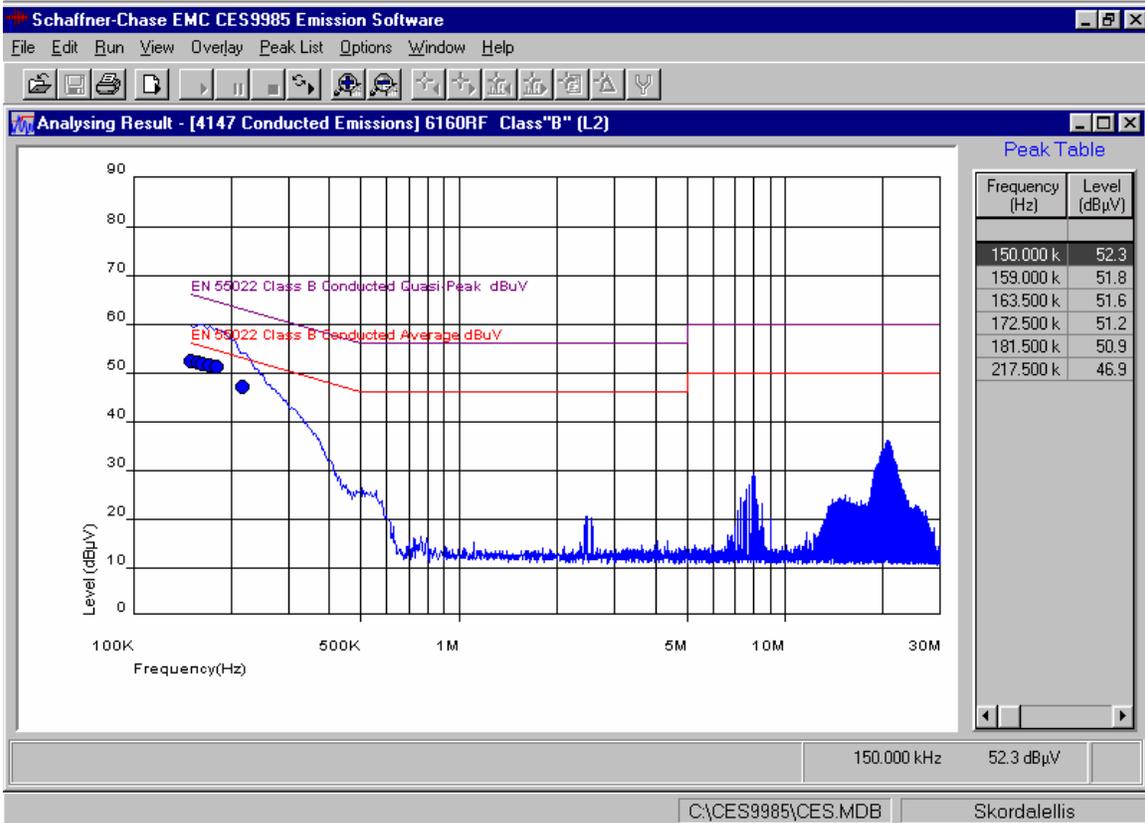
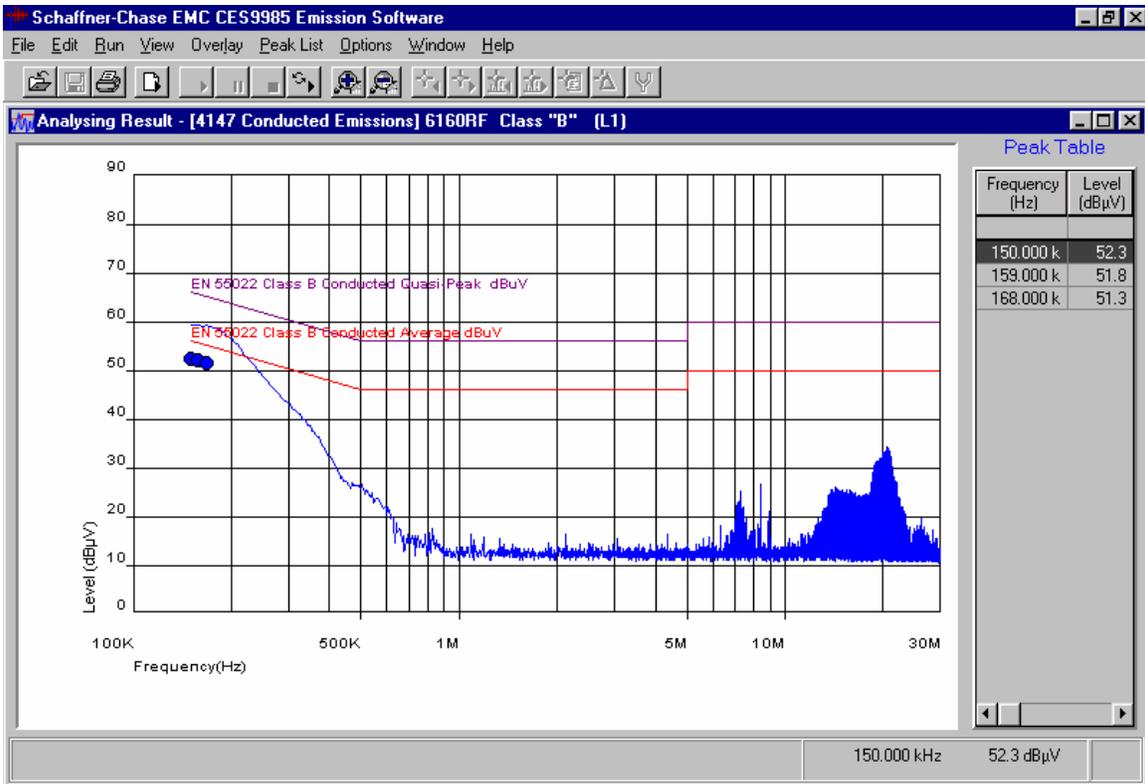
[(Meter reading + Cable/Amp factor + Antenna factor) / 20]

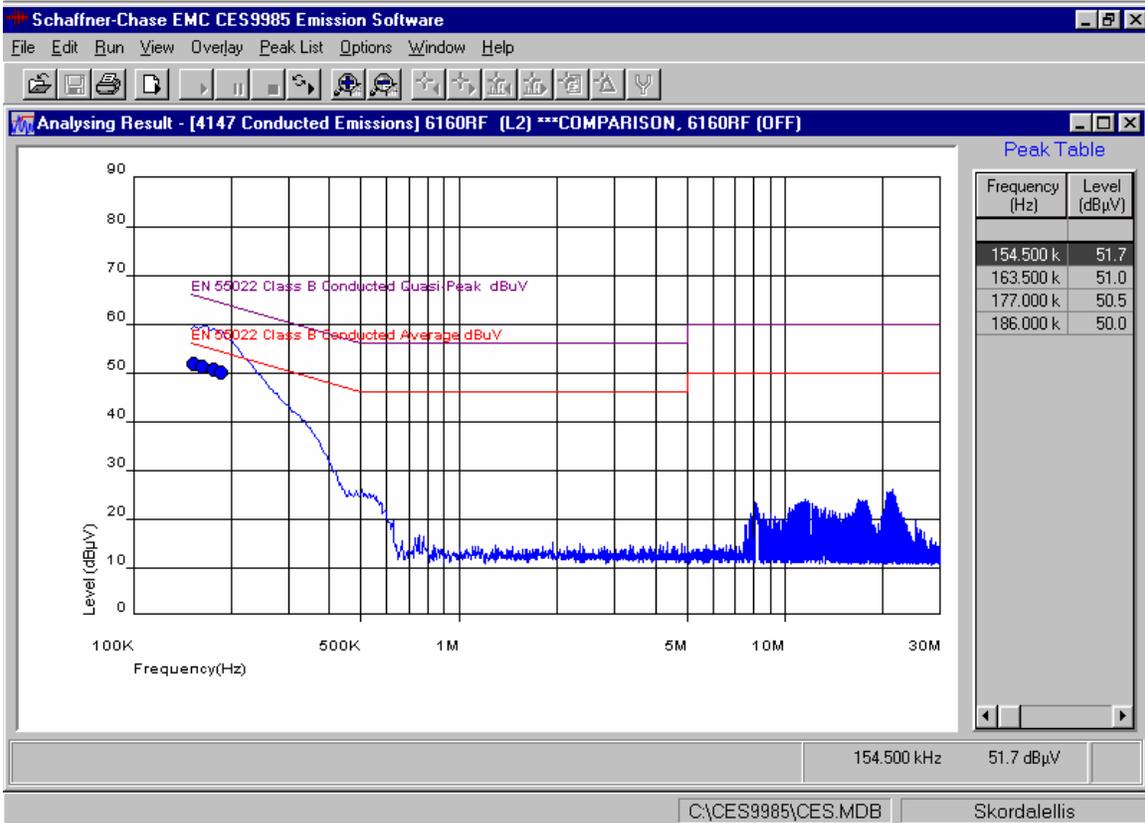
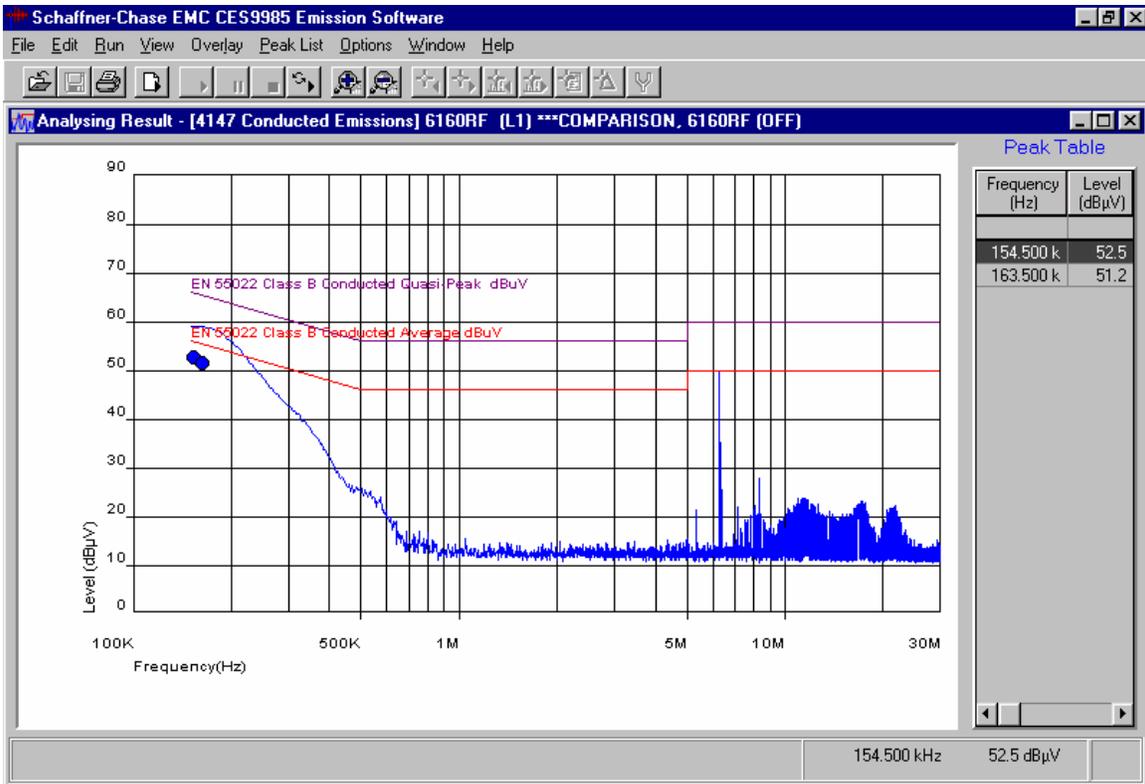
(4) Conv. Reading = 10

(5) Corr. Reading = Conv. Reading X Duty Cycle

(6) Six Highest Emissions Recorded

Freq. (MHz)	Antenna Polarity (V/H)	Meter Reading (dB uV)	Cable/Amp Factor (dB)	Antenna Factor (dB/m)	Conv. Reading (uV/M)	Duty Cycle (%)	Corr. Reading (uV/M)	Limit @ 3M (uV/M)
30			CABLE "A"	BICONILOG				729
334.3	H	25.60	1.3	14.00	110.9	100.0%	110.9	200
355	H	25.40	1.3	14.50	114.8	100.0%	114.8	200
668.6	H	23.80	1.7	19.40	175.8	100.0%	175.8	200
1002.9	H	25.90	2.2	23.70	389.0	100.0%	389.0	500
1067.1	H	24.50	2.2	23.70	331.1	100.0%	331.1	500
1422	H	23.10	2.5	27.10	431.5	100.0%	431.5	500
4000			CABLE "A"	BICONILOG				





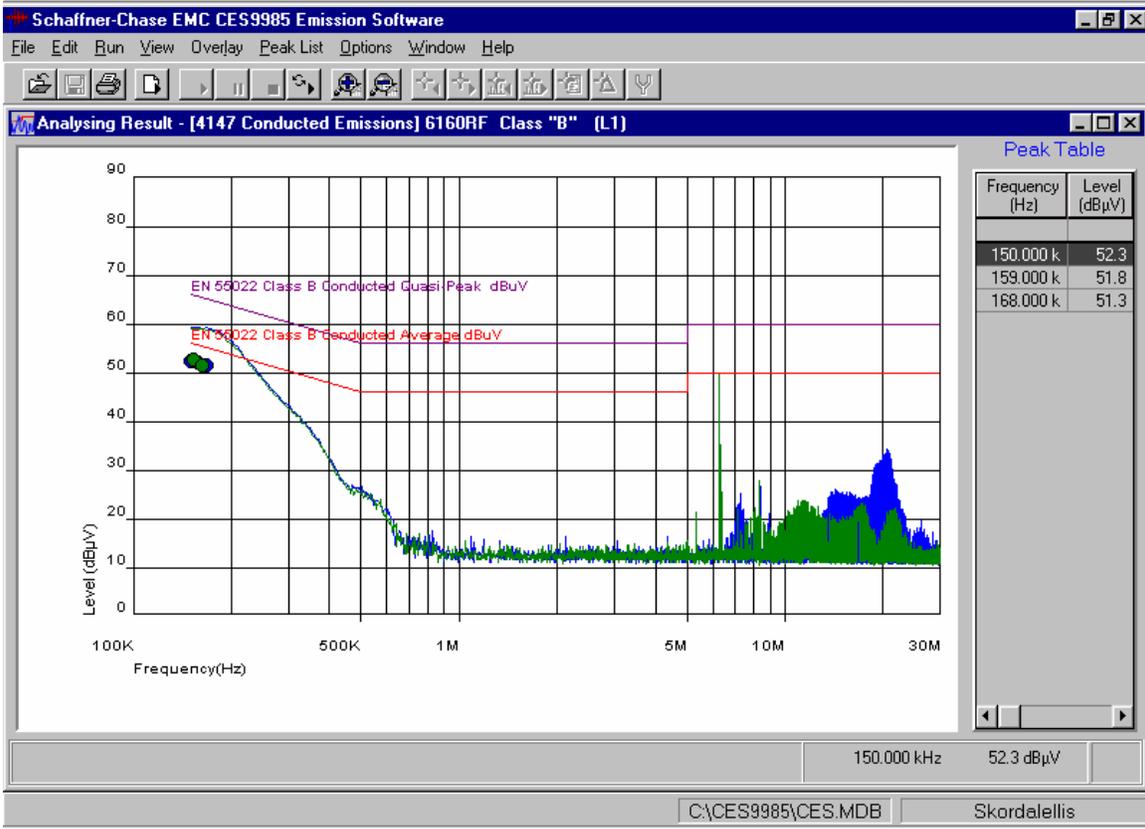
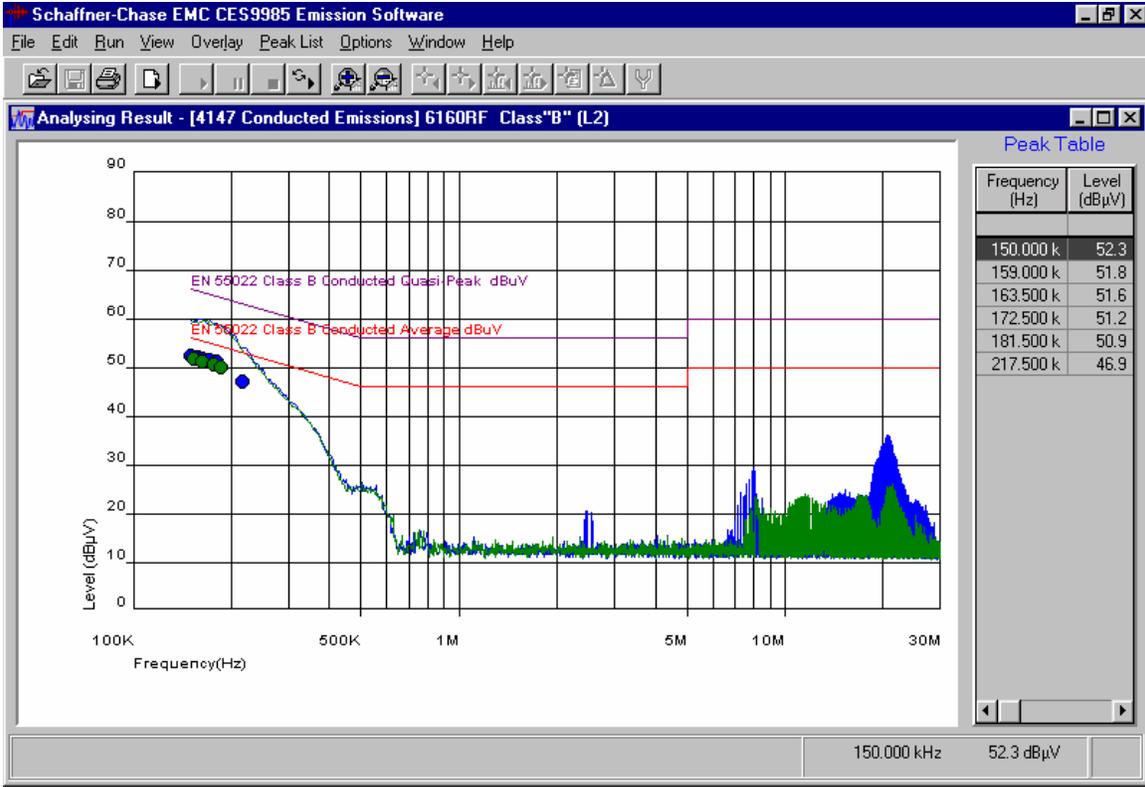


EXHIBIT 6

TEST EQUIPMENT USED
Section 15.231 and ANSI C63.4

CFS8DL6160RF-1 / 573F-6160RF1

Section 15.231, per C63.4. This is a list of all test equipment used.

Test Equipment list

1. Antenna:	BICONOLOG	S/N: 00029290	Cal. on: 09/12/06	Cal. due: 09/12/07
2. Spectrum Analyzer	H. P. 8563E	S/N:3246A00232	Cal. on: 08/20/06	Cal. due: 08/20/07

Part 68

1. Spectrum Analyzer	Agilent HP8593E	Cal. on: 2/16/07	Cal. due: 2/16/08
2. Surge Suppressor	Agilent HP11947A	Cal. on: 5/02/06	Cal. due: 5/02/07
3. Line Impedance Stabilization Network	Com-Power LI-115	Cal. on: 2/13/07	Cal. due: 2/13/08