

Prima Ricerca & Sviluppo Srl soggetta a direzione e coordinamento da parte della Giovanni Maspero & C. S.p.A. – C.I. 02634780130
Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139
Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309 Fax +39 031991309

EQUIPMENT UNDER TEST :
APPARECCHIO IN PROVA :

PROSCRIBE CV
CMPD12CV

REFERENCE STANDARDS :
NORME DI RIFERIMENTO :

47 CFR FCC Part 15 Subpart C § 15.247

CUSTOMER:

RICHIEDENTE:

- **Dept. / Firm :** FIMI S.R.L.
Ente / Società:
- **Mr.:** MARINO FUSCO
Sig.:
- **Address:** VIA SAUL BANFI, 1 – 21047 SARONNO (VA) - ITALY
Indirizzo:
- **Tel. :** ++39 02/96175248 • **Telefa** ++39 02/96175296 • **E-mail:** marino.fusco@philips.com
Telefono : *Fax :* *e-mail*

Site of test execution: Via Campagna, 92 - 22020 Gaggino Faloppio (CO) - Italy
Località esecuzione prove:

Date of test samples receipt: 21/02/2007 **Date of start test:** 22/02/2007
Data ricevimento campioni: *Data inizio prove:*

Date of end test: 22/03/2007
Data fine prove:

Witness to the test:
Presenti alle prove:

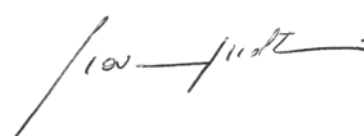
Signature of the engineers:
Firma esecutore prove:

Signature of the Laboratory Director:
Firma Direttore Laboratori:

Nobody / Nessuno



Massimo Maltempi



G. Molteni

The test results recorded in this Test Report are exclusively referred to the tested samples.

I risultati del presente rapporto di prova si riferiscono esclusivamente al campione sottoposto a prova.

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1. TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

1.1 Identification

Brand name: *FIMI S.R.L*
Manufacturer: *FIMI S.R.L*
Equipment : ProScribe CV CMPD12CV
Serial number : Not present
FCC ID : GZM802130
Country of manufacturer: ITALY

1.2 Technical data

FCC class: 47 CFR FCC Part 15 Subpart C § 15.247
Product type: WLAN
Radio type: Intentional transceiver
Power type : Power adapter
Modulation: DSS for IEEE 802.11b; OFDM for IEEE 802.11g
Data Modulation : DSS (BPSK / QPSK / CCK) ; OFDM (BPSK / QPSK / 16QAM / 64 QAM)
Data Rate (Mbps) : DSS (1 / 2 / 5.5 / 11) ; OFDM (6 / 9 / 12 / 18 / 24 / 36 / 48 / 54)
Frequency range : 2400 – 2483.5 MHz
Channel number : 11
Channel Band Width (99%) : 11b:14.04 MHz; 11g:16.40 MHz
Conducted Output Power : 11b:18.11 dBm; 11g:12.79 dBm
Carrier Frequency :
Channel No.1: 2412 MHz
Channel No.2: 2417 MHz
Channel No.3: 2422 MHz
Channel No.4: 2417 MHz
Channel No.5: 2432 MHz
Channel No.6: 2437 MHz
Channel No.7: 2442 MHz
Channel No.8: 2447 MHz
Channel No.9: 2452 MHz
Channel No.10: 2457 MHz
Channel No.11: 2462 MHz
Field Antenna : Antenna Type: PIFA Antenna
Connector: UFL
Gain: -1.55 dBi

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1.3 Modifications incorporated in E.U.T.

The following items are the modifications introduced in the equipment under test :

- None

1.4 Ports identification

This section contains descriptions of all signal ports and AC/DC power input/output ports, the length and the type of the cable provided by manufacturer needed for the tests.

Moreover it is specified if the ports are ever or optionally connected.

Port		Description	Connection
1	Enclosure	Plastic case	By screws and by pressure
2	AC power input/output ports	Not present	
3	DC power input/output ports	24 Vdc	External supply
4	Signals / control lines	2 Usb ports (Type 2.0) (how declared by the client, cable < 3mt) 10/100 Mbps wired LAN (how declared by client, cable > 3mt)	Female type A plug By 9 pins D-sub
5	Telecommunication ports	Not present	

Note: During the tests all cables must be what provided the manufacturer or the same that used in the real employment of the EUT.

1.5 Auxiliary equipment

- Wireless Router BELKIN model F5D7230-4
- SMPS USED FOR EMC TEST

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2. TEST CONDITIONS

2.1 Operating test modes and test conditions

The equipment has been tested according to the operative conditions described in the user/installation manual provided by the manufacturer and by following reference standards :

Reference Standard:

- 47 CFR FCC Part 15 Subpart C § 15.247

In the following table there are the operating conditions adopted during tests identified by an indicator (#..) at which has been referred the item “Operating condition of the equipment under test” of all technical sheets of the tests (see Section 4)

Operating condition	Description
#1	“DisplayMate Utilities” active; control of LAN and WLAN connection (ping at 100Mbps)

2.2 Test overview

The appliance is classified as “*Intentional radiator*” in conformity to FCC Part 15 Subpart C § 15.247.

The application is mainly : 12” XGA touch-screen with a built-in 802.11b/g WLAN interface and Windows XP embedded as thin client operating system. Called ProScribeCV, this mobile display is the ideal workflow tool in environments where professionals work away from their desks. With its touch screen, rugged durability and wireless connectivity, it enables mobile users to stay in contact with their applications while saving time, increasing productivity and reducing errors.

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3. REFERENCE STANDARD FOR PERFORMED TESTS

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.4-2003 and 47 CFR FCC Part 15 Subpart C.

4. SUMMARY OF TEST RESULTS

4.1 Emission tests

Port		Phenomena	Basic standard	Operating condition ¹	Result
1	Enclosure	Radiated emission	FCC Part 15 § 15 209	#1	Within the limit

Note:

The tests Maximum Peak Output Power, Power Spectral Density, 6dB Spectrum Bandwidth, Band Edge Emission, Antenna Requirements can be extended to the relationship of test FR502116 in how much the only modified devices is the switching local power source that working to a frequency of some kHz cannot change the result of the made tests previously.

¹ Ref. Tab. of Section 2

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5. TEST RESULTS

RADIATED EMISSION 9 KHZ $\div 10^{\text{TH}}$ HARMONIC.....8

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TEST 1

RADIATED EMISSION 9 KHZ ÷ 10TH HARMONIC

REFERENCE DOCUMENT

FCC 47CFR Part 15

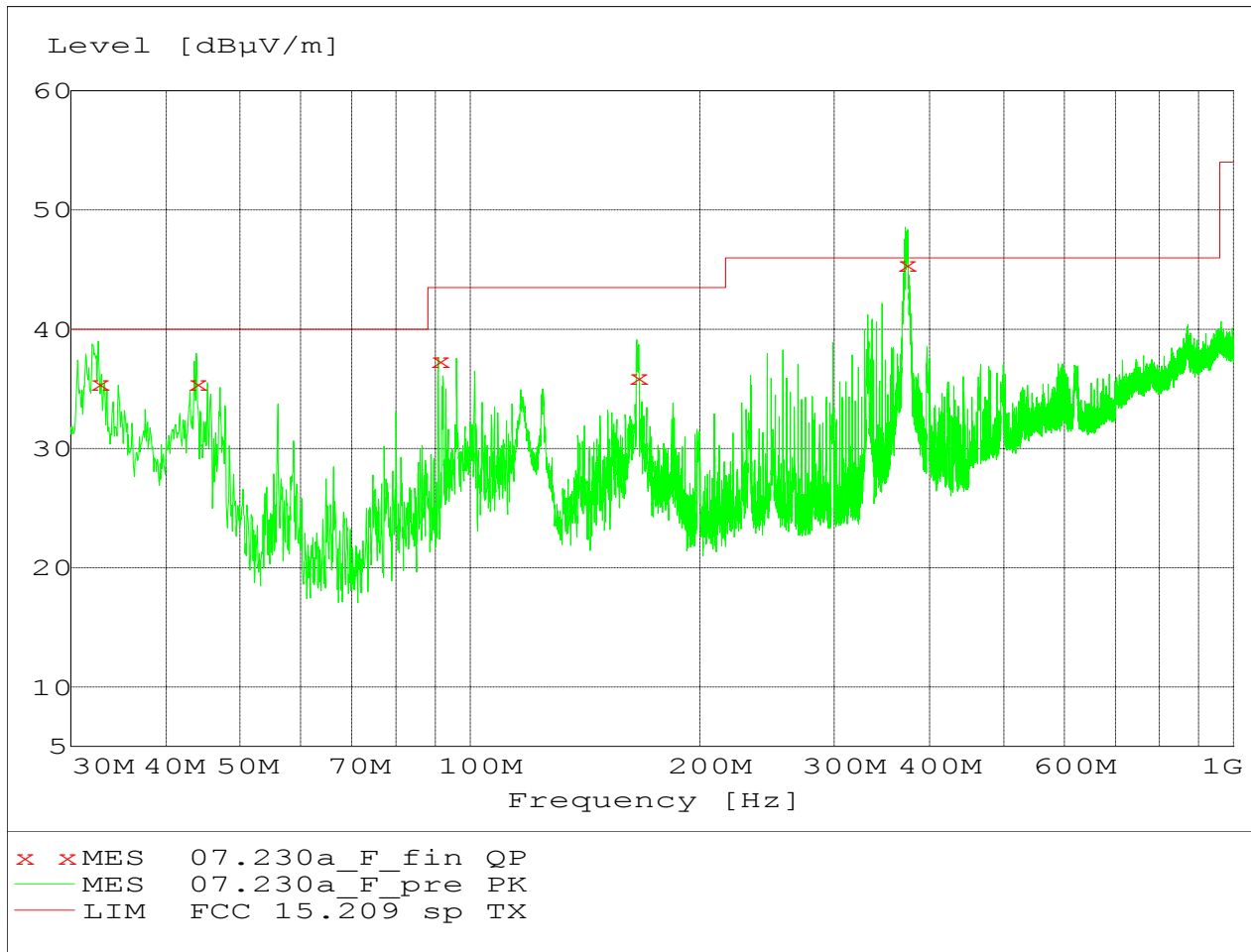
- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** EMI receiver Rohde & Schwarz Mod. ESMI
Chase Antenna Mod. CBL 6111 A
- **TESTED PORT:** Enclosure
- **EMISSION LIMITS:** Acc. to Section 15.209 of reference document
- **UNCERTAINTY OF MEASURE:** Combined uncertainty = ± 1.75 dB
Total uncertainty = $(k=2) \pm 3.5$ dB

TEST CONDITIONS:		MEASURED
Ambient temperature :	15 - 35 °C	23,5 $\pm$ 3 °C
Ambient humidity :	25 - 75 %rH	39 $\pm$ 5 %rH
Pressure :	85 - 106 kPa (860 mbar - 1060 mbar)	950 $\pm$ 50 mbar

OPERATING CONDITION (Rif. Section. 2) : #1

RESULT: WITHIN THE LIMIT

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Final measurement in QP detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
32.560000	35.50	19.40	40.00	4.50	100.0	180.00	VERTICAL
43.760000	35.50	13.30	40.00	4.50	100.0	180.00	VERTICAL
90.880000	37.40	10.60	43.50	6.10	100.0	90.00	VERTICAL
165.280000	36.00	12.50	43.50	7.50	100.0	0.00	HORIZONTAL
371.840000	45.50	18.70	46.00	0.50	100.0	90.00	HORIZONTAL

measurement in AV detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
32.560000	23.50	19.40	40.00	16.50	100.0	180.00	VERTICAL
43.760000	23.60	13.30	40.00	16.40	100.0	180.00	VERTICAL
90.880000	26.30	10.60	43.50	17.20	100.0	90.00	VERTICAL
165.280000	26.20	12.50	43.50	17.30	100.0	0.00	HORIZONTAL
371.840000	35.00	18.70	46.00	11.00	100.0	90.00	HORIZONTAL

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radiated emission (1GHz – 10th Harmonic) 24,8 GHz

Channel N°	Frequency MHz	Level dBμV/m	Limit dBμV/m	Detector	Margin dB	Height cm	Azimuth deg	Polarisation
1	1982.0000	48,0861	74	Peak	25,91	123.0	335.00	VERTICAL
1	4824.0000	41,5312	54	Average	12,47	105.0	17.00	VERTICAL
1	4824.0000	52,217	74	Peak	21,78	118.0	2.00	VERTICAL
1	7236.0000	49,6516	74	Peak	24,35	133.0	25.00	VERTICAL
6	1844.0000	43,2684	74	Peak	30,73	102.0	348.00	VERTICAL
6	4876.2400	43,389	54	Average	10,61	104.0	45.00	VERTICAL
6	7311.0000	49,9243	74	Peak	24,08	162.0	51.00	VERTICAL
11	1988.0000	48,4901	74	Peak	25,51	128.0	283.0	VERTICAL
11	4924.0000	41,864	54	Average	12,14	122.0	266.0	VERTICAL
11	7386.0000	48,6517	74	Peak	25,35	134.0	211.0	VERTICAL

Note for radiated emission (1GHz – 10th Harmonic)

The amplitude of spurious emission which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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6. EUT TECHNICAL DOCUMENTATION

6.1 Wiring diagrams

	<i>Document reference (n., edition, date, ...)</i>
WIRING DIAGRAM	*****
PART LIST	*****

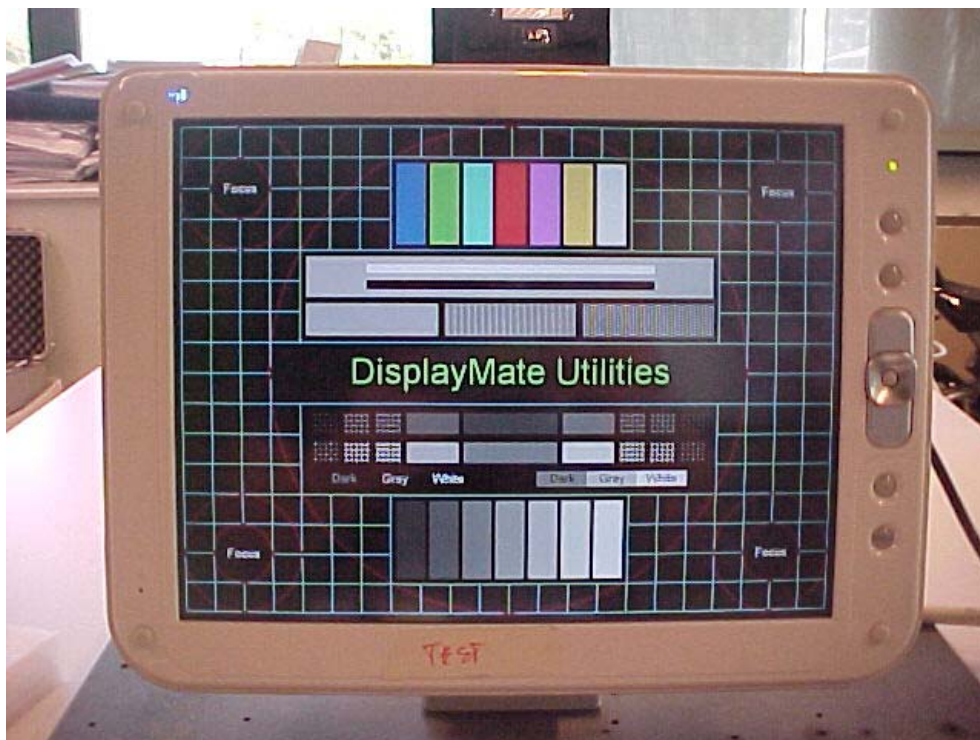
6.2 Technical manual

	<i>Document reference (n., edition, date, ...)</i>
Operating Manual	*****

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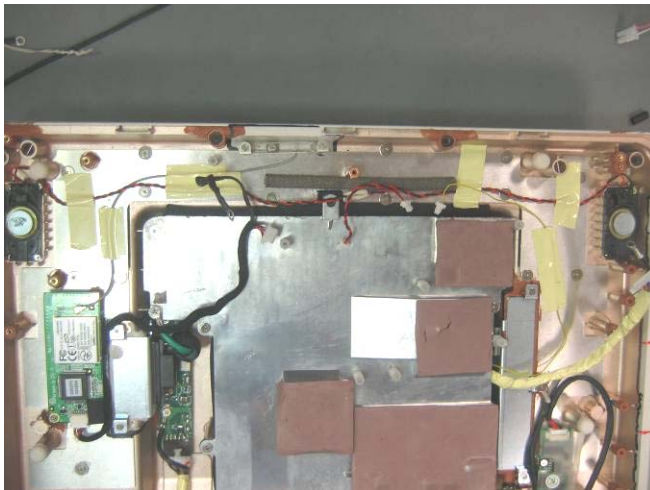
6.3 Photographic documentation

PHOTO 1 – E.U.T. IDENTIFICATION



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PHOTO 2 – E.U.T. IDENTIFICATION



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PHOTO 3 – SET-UP FOR EMISSION RADIATED TEST

