

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

TECHNICAL REPORT

FCC.RT.07.1691

Report issued by



Via Campagna, 92
22020 Faloppio fraz. Gaggino (CO)

CLIENT

FIMI S.r.l.

ADDRESS

Via Saul Banfi, 1 – 21047 Saronno (VA)

EQUIPMENT TYPE

MONITOR PROSCRIBE CMPD12CV

BASIC MODEL

9919 320 5145.1

DERIVED MODELS

9919 320 5145.2

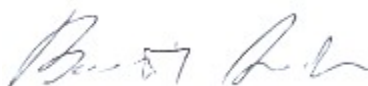
REFERENCE STANDARDS :

- 47 CFR FCC Part 15 Subpart C § 15.247

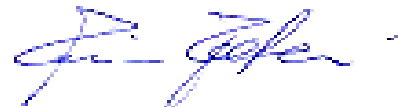
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PERFORMED / COMPILED

CHECKED



Andrea Bortolotti



Massimo Maltempi

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1. SCOPE

This technical report illustrates the essential evaluation elements for the conformity approval of a series products.

The technical report is related to the examination of the technical description of the father product and its variants belonging to the same “family” of products.

The description provided in the customer technical construction file underlines the master model structure and its possible variants, called with different brand names.

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2. IDENTIFICATION OF MASTER MODEL AND ITS VARIANTS

In this technical report we extend the conformity from the basic mode:

MONITOR PROSCRIBE CMPD12CV cod. 9919 320 5145.1

to derived models identified as:

MONITOR PROSCRIBE CMPD12CV cod. 9919 320 5145.2

The differences between basic model and derived models are:

- New inverter module (ASAL0061040R SUMIDA) with new inverter cable and routing (see annex documentation for details)

The model MONITOR PROSCRIBE CMPD12CV cod. 9919 320 5145.1 was submitted to tests of :

- *Electromagnetic Compatibility with ref. Report FCC.TR.07.232 issued in date 05/04/2007 in according to standard:
47 CFR FCC Part 15 Subpart C § 15.247*

The product is therefore compliant with FCC Part 15 standard.

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3. DOCUMENTATION PREPARED BY CUSTOMER

- <i>Wiring diagram</i>	4-6-4 Inverter Cable Pictures X16_CABLE_INVERTER_4P-6P-4P
- <i>Technical Manual</i>	Mobits IV16073 ASAL0061040R Approval Sheet Rework SOP for CV boxes

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4. CONCLUSION

The differences on the derived models required some partial tests in order to verify the compliance to standard prescription.

RADIATED EMISSION 9 KHZ ÷ 10TH HARMONIC

REFERENCE DOCUMENT FCC 47CFR Part 15

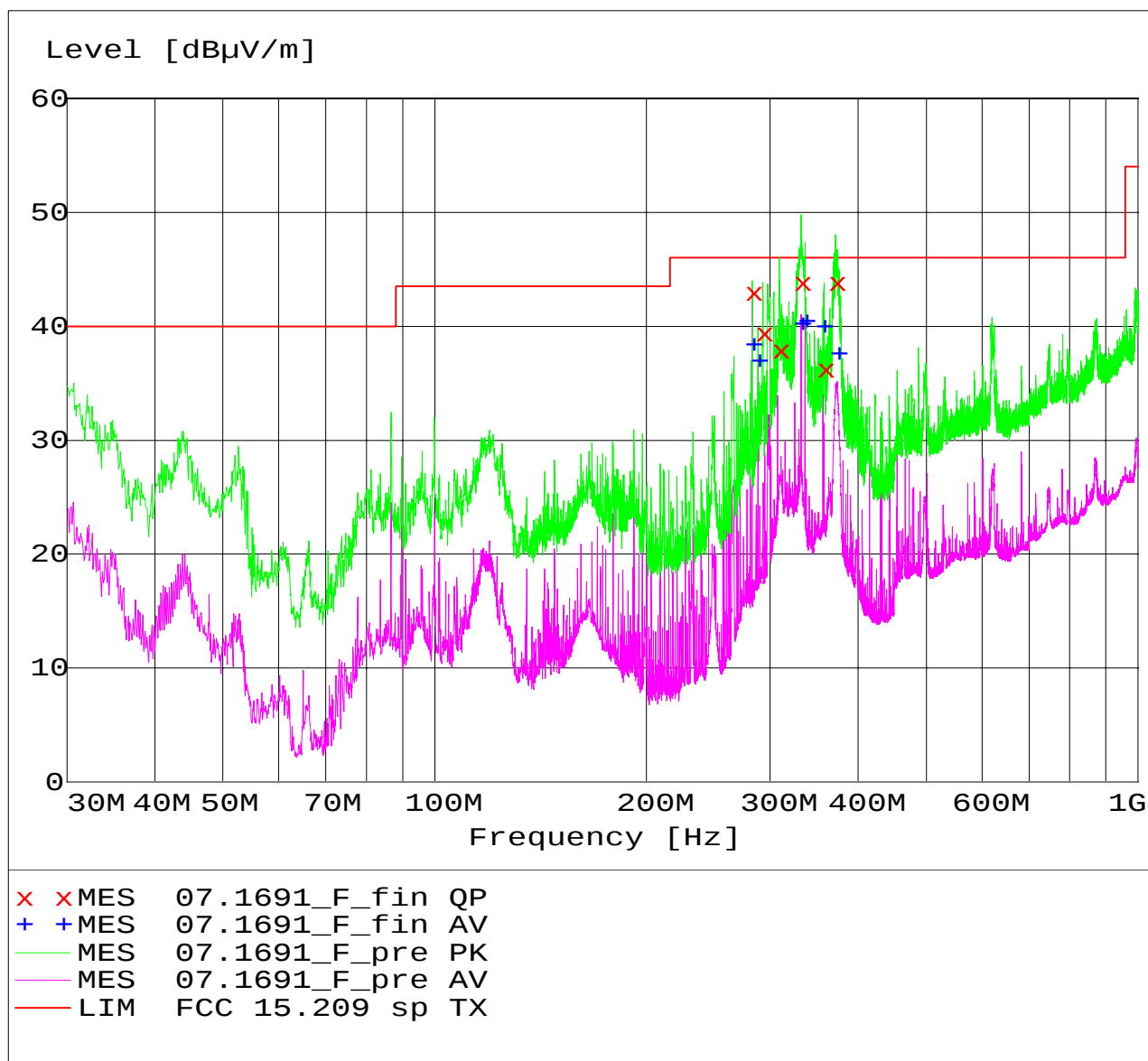
- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** EMI receiver Rohde & Schwarz Mod. ESMI
Chase Antenna Mod. CBL 6111 A
- **TESTED PORT:** Enclosure
- **EMISSION LIMITS:** Acc. to Section 15.209 of reference document
- **UNCERTAINTY OF MEASURE:** Combined uncertainty = ± 1.75 dB
Total uncertainty = (k=2) ± 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:	Display Mate Utilities" active; control of LAN connection (ping at 100Mbps). Wi-Fi link connection
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RESULT: WITHIN THE LIMIT

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Final measurement in QP detector

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	
282.600000	42.90	16.20	46.00	3.10	174.0	90.00	VERTICAL
292.520000	39.40	16.40	46.00	6.60	100.0	215.00	HORIZONTAL
308.800000	37.80	16.60	46.00	8.20	108.0	205.00	HORIZONTAL
331.760000	43.80	17.60	46.00	2.20	100.0	202.00	HORIZONTAL
357.760000	36.20	18.50	46.00	9.80	100.0	209.00	HORIZONTAL
371.760000	43.80	18.70	46.00	2.20	100.0	194.00	HORIZONTAL

Final measurement in AV detector

Frequency	Level	Transd	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	cm	deg	
282.600000	38.30	16.20	174.0	90.00	VERTICAL
288.040000	36.90	16.40	100.0	207.00	HORIZONTAL
331.760000	40.20	17.60	100.0	217.00	HORIZONTAL
336.080000	40.40	17.80	100.0	215.00	HORIZONTAL
356.320000	39.90	18.60	100.0	113.00	HORIZONTAL
373.600000	37.50	18.80	100.0	174.00	HORIZONTAL

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

Channel	Frequency	Level	Limit	Detector	Margin	Height	Azimuth	Polarisation
N°	MHz	dBµV/m	dBµV/m		dB	cm	deg	
1	1982.0000	46.547	74	Peak	27.453	134.0	320.00	VERTICAL
1	4824.0000	39.745	54	Average	14.255	110.0	25.00	VERTICAL
1	4824.0000	55.234	74	Peak	18.766	121.0	0.00	VERTICAL
1	7236.0000	51.248	74	Peak	22.752	145.0	30.00	VERTICAL
6	1844.0000	44.785	74	Peak	29.215	100.0	0.00	VERTICAL
6	4876.2400	44.985	54	Average	9.015	100.0	50.00	VERTICAL
6	7311.0000	50.742	74	Peak	23.258	158.0	65.00	VERTICAL
11	1988.0000	49.357	74	Peak	24.643	138.0	250.0	VERTICAL
11	4924.0000	42.874	54	Average	11.126	134.0	250.0	VERTICAL
11	7386.0000	49.638	74	Peak	24.362	134.0	200.0	VERTICAL

*No spurious are detected over 8GHz

Note for radiated emission (9kHz – 30 MHz)

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

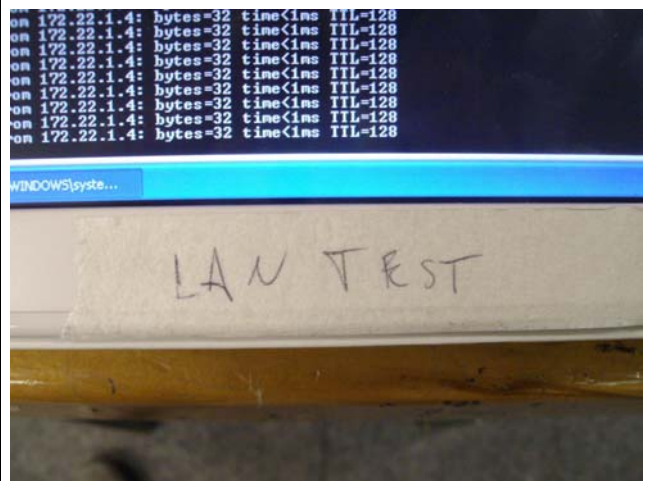
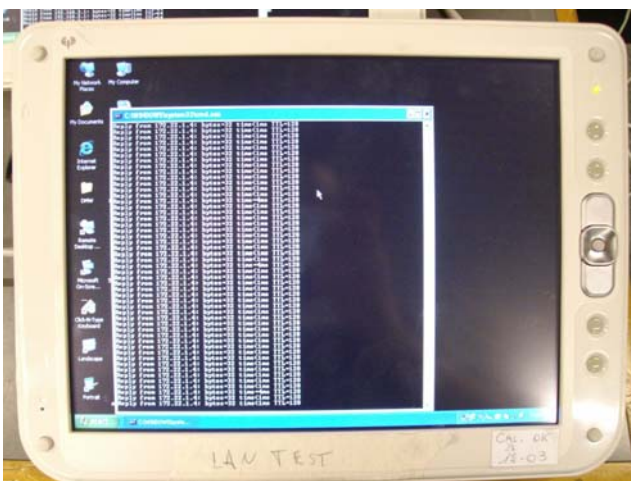
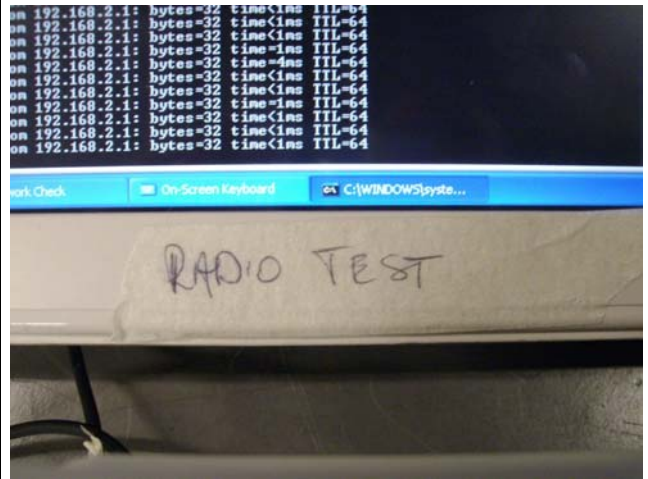
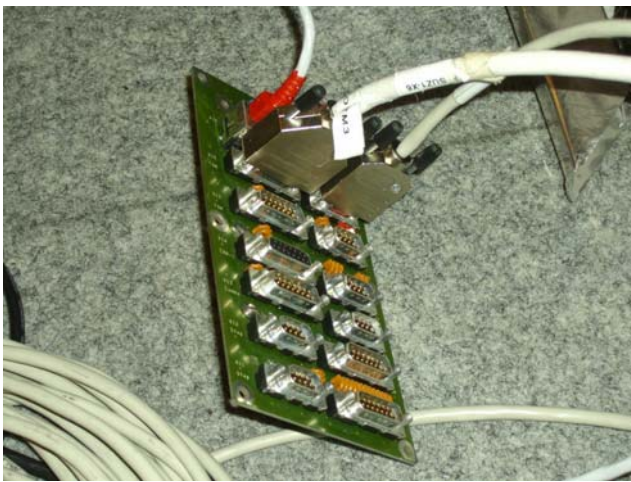
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5. PHOTOGRAPHIC DOCUMENTATION

PHOTO N°1: Emission radiated setup with ancillary equipment



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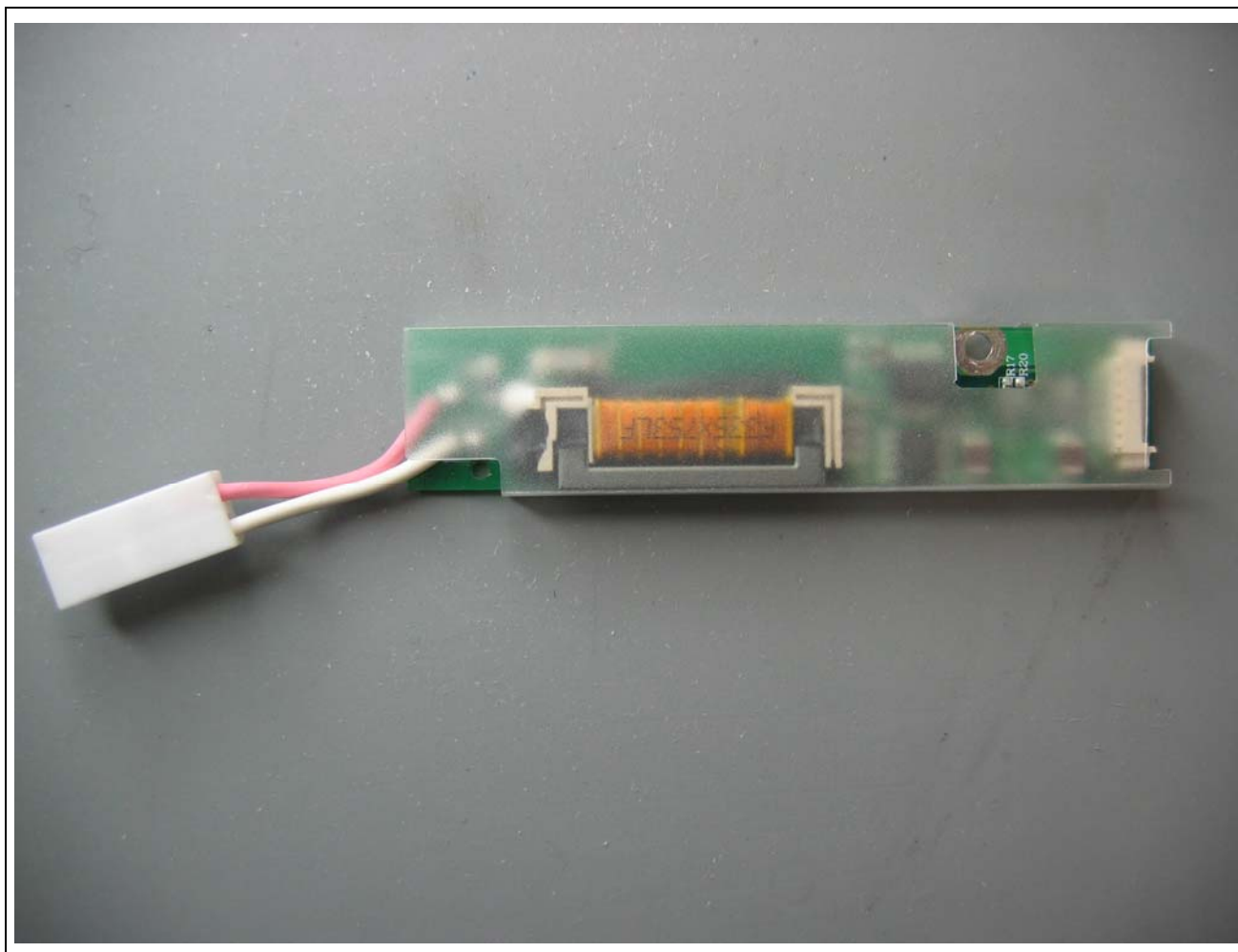


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PHOTO N°2: New inverter module



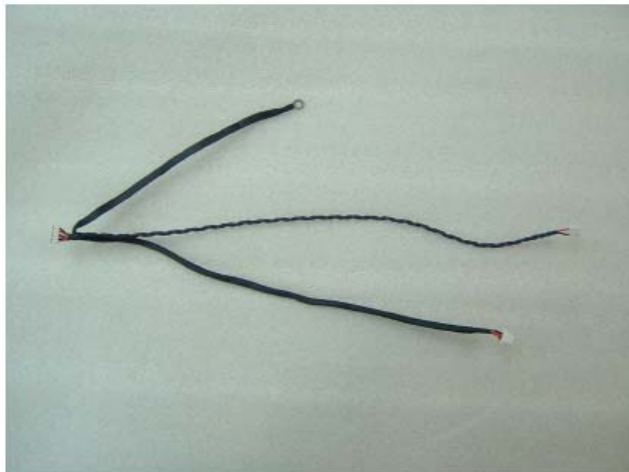
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PHOTO N°3: New inverter cable

Picture for the New Inverter Cable



Picture for the new inverter cable assembled into CMPD12CV

