# PRIMA

### TEST REPORT

FCC.TR.

07.406

Prima Ricerca & SviluppoSrl 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

**EQUIPMENT UNDER TEST:** 

APPARECCHIO IN PROVA :

USB KEY PLUG'N'CRYPT

**REFERENCE STANDARDS:** 

FCC 47 CFR Part 15

NORME DI RIFERIMENTO :

**CUSTOMER:** 

RICHIEDENTE:

Dept. / Firm : CHARISMATHICS GMBH

Ente / Società':

Mr.:
 XIANGDONG WAN

Sig.:

• Address: 47 SENDLINGER STRASSE – 80331 MUENCHEN – GERMANY

Indirizzo:

• Tel.: ++49 89 30906700 • Telefax ++49 89 30906729 • E-mail: <u>xiangdong.wang@charismathi</u>

Telefono : Fax : e-mail cs.com

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

Località esecuzione prove:

Mr. Gianluca Maffioli

Date of test samples receipt: 18/09/06 Date of start test: 18/09/06

Data ricevimento campioni: Data inizio prove:

Date of end test: 18/09/06

Data fine prove:

Witness to the test: Signature of the engineers: Signature of the Laboratory Director:

Presenti alle prove: Firma esecutore prove: Firma Direttore Laboratori:

Tesenti alle prove. I lima esecutore prove. I lima birettore Laboratori.

Andrea Bortolotti Roberto Furfari

Andrea Bortolotti 1005erto 1 unum

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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# PRIMA RICERCA & SVILUPPO

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# 1. TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 Identification

Brand name: CHARISMATHICS GMBH

Manufacturer: EUTRONSEC SPA

Equipment: USB KEY

Model name or No. : PLUG'N'CRYPT

Serial number : Not present FCC ID : U5Y-AAB

Country of manufacturer: ITALY

### 1.2 Technical data

FCC class: Unintentional radiators, Class B

Supply voltage: +5 V dc supplied by USB PC connector

Input Power / Current: 250 mA max.

Maximum internal frequency

generated by EUT

Oscillator: 24 MHz; Data Exchange Rate:480Mbit/s

Typical usage: Document encrypting and storing

EUT single or system: Single

EUT dimensions :  $7,5 \times 1,9 \times 1,2 \text{ cm}$ 

### 1.3 Modifications incorporated in E.U.T.

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

None

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### 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	*******
2	AC power input/output ports Line not present		*******
3	DC power input/output ports	+5 V dc supplied by USB PC connector	USB PC connector (Pin 1,4)
4 Signals ports		USB Communication	USB PC connector (Pin 2,3)

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

# 1.4 Auxiliary equipment

Personal Computer Compaq EV0 N1020V

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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:

### FCC Part 15, Subpart B

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	Electronic key is connected directly by USB port to PC.								
	One test program is available, as stimulus, to verify the encrypting and data storing properties.								
	PICODISK Test  Test  Test  Test  Test  Test Faled 9  Status TESTING  Status Stop  Exit  Stop  Figure Fale  Fi								

### 2.2 Test overview

The appliance is classified as "unintentional radiator" in conformity to FCC Part 15 Sub. B §15.109, §15.107, and it is subject to "Certification" procedure.

The application is mainly used as document encrypting and data storing.

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# 3. REFERENCE STANDARD FOR PERFORMED TESTS

Reference standard :	Title:
FCC Part 15 part A	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)
FCC Part 15 part B	Code of Regulations Part 15 (Radio Frequency Devices), Subpart B (Unintentional Radiators) of the Federal Communication Commission (FCC)
ANSI C63.4	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz

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# 4. SUMMARY OF TEST RESULTS

### 4.1 Emission tests

	Port	Phenomena	Basic standard	Operating condition <sup>1</sup>	Result
1	Enclosure	Radiated emission	FCC Part 15 § 15 109	#1	Within the limit
2	AC mains Input ports	RF Disturbance voltage:     continuous	FCC Part 15 § 15 107	#1	Within the limit
3	Antenna terminals	Antenna power conduction limits for receivers	FCC Part 15 §15 111	Not applicable <sup>2</sup>	

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<sup>&</sup>lt;sup>1</sup> Ref. Tab. of Section 2

<sup>&</sup>lt;sup>2</sup> Applicable only to equipments which have an external antenna connector



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# 5. TEST RESULTS

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TEST 1.

### **RADIATED EMISSION 30 - 4000 MHZ**

REFERENCE DOCUMENT FCC PART 15 subpart B

• TEST LOCATION: Semi-anechoic chamber

• TEST EQUIPMENT USED FOR TEST: EMI receiver Rohde & Schwarz Mod. ESMI

Chase Antenna Mod. CBL 6111 A

Log-periodica Broadband Antenna mod. HL025

• TESTED PORT: Enclosure

EMISSION LIMITS:

Acc. to Section 15.109 of reference document

• **UNCERTAINTY OF MEASURE:** Combined uncertainty =  $\pm$  1.75 dB

Total uncertainty =  $(k=2) \pm 3.5 dB$ 

TEST CONDITIONS:			MEASURED
Ambient temperature :	15 - 35 °C		23,5 ± 3 °C
Ambient humidity :	25 - 75 %rH		39 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :			+5 V dc USB

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

RESULT: WITHIN THE LIMIT

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SCAN TABLE: "Radiated Emission"

Unit:  $dB\mu V/m$ 

Detector: Mode:

Curve1: MaxPeak ClearWrite
Curve2: -- ClearWrite

Subrange1:

Start Frequency: 30.0 MHz Step Size: 80 kHz
Stop Frequency: 4000.0 MHz IF Bandwidth: 120 kHz

Measure Time: 0.01 sec.

Receiver: ESXI Probe Transducer: CHASE\_6111\_PRC
Signal Path: Path 4 System Transducer: RFin2-CP1/X11

Scan Mode: Lin Add. Transducer: W71.01

Tracking Gen.: Off Input: 2 DC

Preamplifier: 10 dB Demodulation: FM Broad RF att.: Coupled Volume: 0.0%

Ref. Level: -50 dBm Squelch: --

Min. RF att.: 0 dBm Option: None

Autorange: On

Curve 1: On Repetition: Single
Curve 2: Off Stop Mark: On

Stop Message: On

Text: Connect antenna

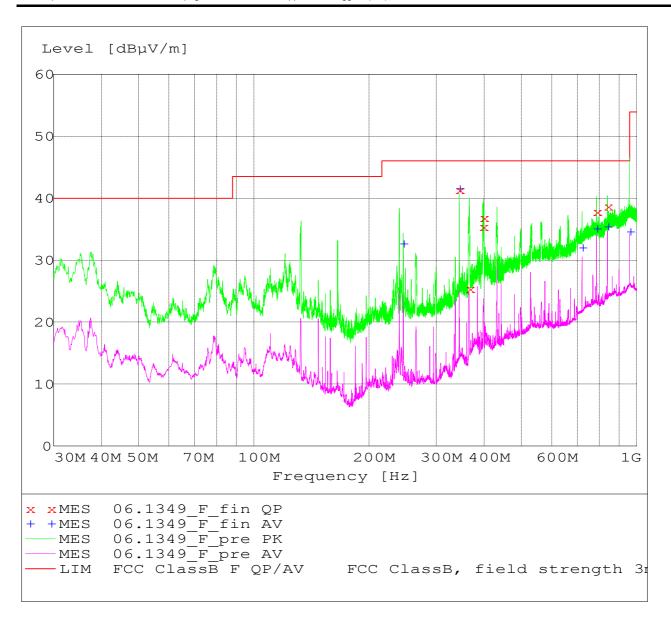
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### Final measurement in QP detector

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	
344.080000	41.40	18.20	46.00	4.60	101.0	123.00	HORIZONTAL
365.760000	25.40	18.60	46.00	20.60	185.0	86.00	HORIZONTAL
397.040000	35.40	19.70	46.00	10.60	100.0	222.00	HORIZONTAL
398.720000	36.80	19.70	46.00	9.20	100.0	204.00	HORIZONTAL

### Final measurement in AV detector

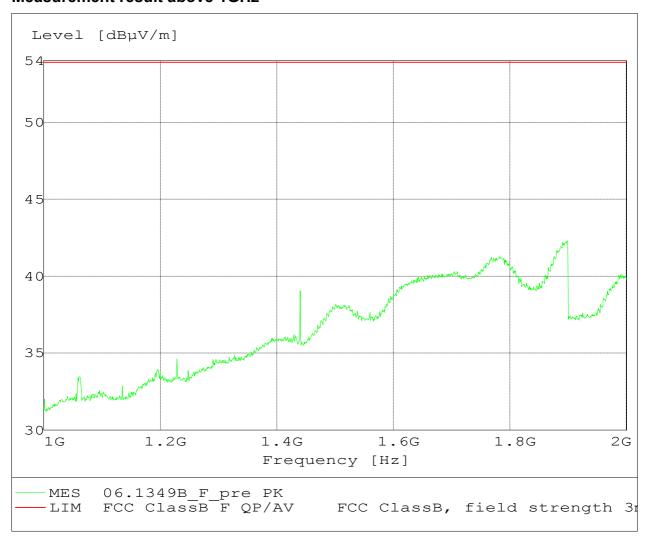
Frequency	Level	Transd	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dB	cm	deg	
245.760000	32.70	15.30	967.30	100.0	132.00	HORIZONTAL
344.080000	41.50	18.20	958.50	100.0	128.00	HORIZONTAL
720.080000	32.00	25.60	968.00	115.0	77.00	HORIZONTAL
786.480000	35.10	26.90	964.90	109.0	185.00	HORIZONTAL
840.080000	35.40	27.50	964.60	100.0	78.00	HORIZONTAL
960.080000	34.60	30.20	965.40	134.0	105.00	HORIZONTAL

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### Measurement result above 1GHz



no significant disturbance in the range 2-4 GHz

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TEST 2.

### **EMISSION OF MAINS TERMINAL DISTURBANCE VOLTAGE**

REFERENCE DOCUMENT FCC PART 15 subpart B

TEST LOCATION: Semianechoic chamber

• TEST EQUIPMENT USED FOR TEST: EMI receiver Rohde & Schwarz Mod. ESMI

Artificial Network Rohde & Schwarz Mod. ESH3-Z5

• TESTED PORT: AC mains
• FREQUENCY RANGE: 0.15 - 30 MHz

EMISSION LIMITS: Acc. to reference document 15.107
 MEASUREMENT UNCERTAINTY: Total uncertainty (k=2) ± 2.5 dB

TEST CONDITIONS:			MEASURED
Ambient temperature :	15 - 35 °C		24 ± 3 °C
Ambient humidity :	25 - 75 %rH		40 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :	220Vac		98 Vac ± 3%

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

RESULT: Within the limits

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**SCAN TABLE: Voltage Mains** 

Unit :  $dB\mu V$ 

<u>Detector</u>: <u>Mode</u>:

Curve 1: MaxPeak ClearWrite
Curve 2: Average ClearWrite

Start Frequency: 150.0 kHz

Stop Frequency: 30.0 MHz IF Bandwidth: 9 kHz

Measure Time: 10.0 ms Step size: 6 kHz

Receiver: ESMI Transducer: ESH3-Z5\_PRC

Signal Path: Path 3 System Transducer: Rfin1-CP2/X11

Meas. Mode :LinAdd. Transd. 1 :W71.03Tracking Generator :OffAdd. Transd. 2 :NoneInput :1ACAdd. Transd. 3 :None

**Preamplifier**: 10 dB **Demodulation**: FM Broad

 RF Att. :
 Coupled
 Volume :
 0 %

 Ref. Level :
 -10 dBm
 Squelch :
 -

Min. RF Att.: 0 dB Option: None

IF Att.: 0 dB
Autorange: On

Curve 1 :OnRepetition :SingleCurve 2 :OnStop Mark :On

Stop Message: On

Stop Message: Connect EUT

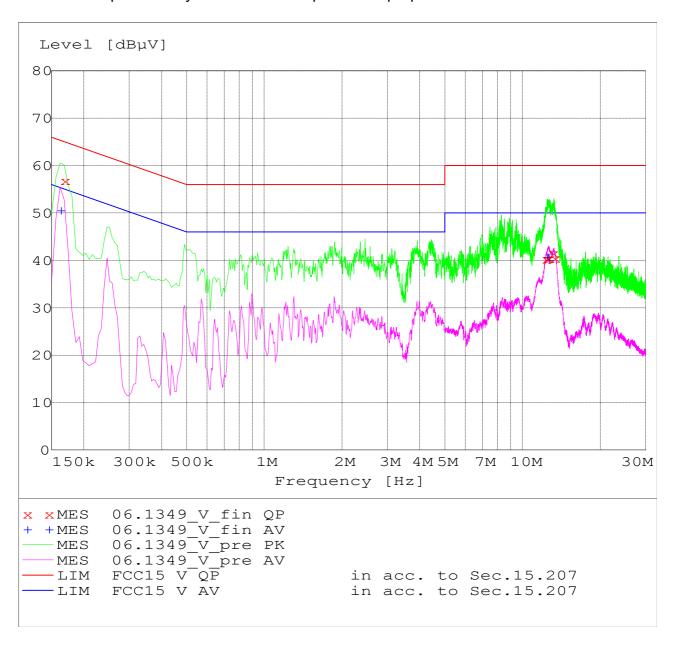
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### With EUT powered by a Personal Computer Compaq EV0 N1020V



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### Final measurement in QP detector

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dΒμV	dB		
0.168000	56.80	10.10	65.10	8.30	L1	GND
12.300000	40.30	10.60	60.00	19.70	N	GND
12.522000	40.40	10.60	60.00	19.60	N	GND
13.098000	41.50	10.60	60.00	18.50	N	GND
13.296000	40.50	10.60	60.00	19.50	N	GND

### Final measurement in AV detector

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	dB	dΒμV	dB		
0.162000	50.50	10.10	55.40	4.90	N	GND
12.378000	40.70	10.60	50.00	9.30	L1	GND
12.432000	40.70	10.60	50.00	9.30	L1	GND
12.558000	40.70	10.60	50.00	9.30	L1	GND
12.630000	40.10	10.60	50.00	9.90	L1	GND

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# 6. EUT TECHNICAL DOCUMENTATION

# 6.1 Wiring diagrams

	Document reference (n., edition, date,)
WIRING DIAGRAM	Not applicable
PART LIST	1467-02-BOM-01R2

### 6.2 Technical manual

	Document reference (n., edition, date,)
USER MANUAL	Plug'n'crypt Overview 1.2
TEST PLAN	1467-00-SDT-08R1.0

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# 6.3 Photographic documentation

# PHOTO No. 1 – EQUIPMENT UNDER TEST

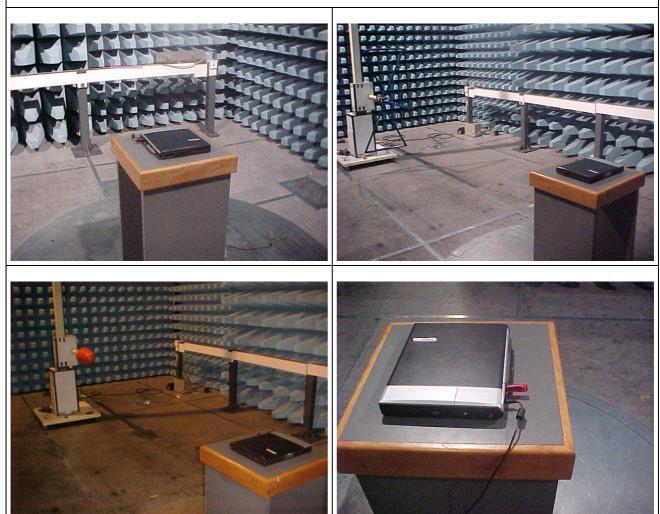
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### PHOTO No. 2 - SET-UP FOR EMISSION RADIATED TEST



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