

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

**EQUIPMENT UNDER TEST :**  
APPARECCHIO IN PROVA :

**KTC kit transmission of commands**  
**Type TG02, Model 202D, Configuration K02**

**REFERENCE STANDARDS :**  
NORME DI RIFERIMENTO :

**FCC 47 CFR Part 15**

**CUSTOMER:**

RICHIEDENTE:

- **Dept. / Firm :** AUTEK S.r.l.  
*Ente / Società:*
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**Site of test execution:** Via Campagna, 92 - 22020 Gaggino Faloppio (CO) - Italy  
*Località esecuzione prove:*

**Date of test samples receipt:** 26/05/04 **Date of start test:** 26/05/04  
*Data ricevimento campioni:* *Data inizio prove:*  
**Date of end test:** 07/06/04  
*Data fine prove:*


**Witness to the test:**  
Presenti alle prove:

Nobody / Nessuno  
.....

**Signature of the engineers:**  
Firma esecutore prove:

  
.....  
F. Barbierato

**Signature of the Laboratory Director:**  
Firma Direttore Laboratori:

  
.....  
R. Furfari

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:	AUTEC
Equipment :	KTC kit transmission commands
Model name or No. :	Type TF02 Model B07D
Serial number :	Prototype
FCC ID :	OQA-TG02202D
Country of manufacturer:	ITALY

### **1.2 Technical data**

FCC class:	Intentional Radiators
TX module type :	E16STXUS1
Maximum internal frequency generated by EUT :	14 MHz
Supply voltage:	9-30 Vdc -ac
Typical usage :	Fixed radio remote control used to command Industrial machines
EUT single or system:	Single
EUT dimensions :	160 x 110 x 75 mm

### **1.3 Transmitter technical data**

#### **TRANSMITTER**

- Working Frequency : 902,150 – 927,725 MHz  
separated in 32 programmable radio channel
- Frequency Range of Operation : 902 – 928 MHz
- Antenna type : External with 2,5 m long cable

### **1.4 Modifications incorporated in E.U.T.**

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

- None

## 1.5 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 surface	By screws
2	AC power input/output ports	9 – 30 Vac by external source (in alternative to DC power source)	Terminal
3	DC power input/output ports	9 – 30 Vdc by external source (in alternative to AC power source)	Terminal
4	Signals ports	Signal line and output contact relay	terminal

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

## 1.6 Auxiliary equipment

- A generic AC/AC power supply (VARIAC)
- DC Linear power supply Delta Elektronika mod. SMX 7220-D

## 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 C, Section 15.231 and 15.249

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)

<b>Operating condition</b>	<b>Description</b>
#1	Continuous transmission

### 2.2 Test overview

Sample tested is the main model of a complete set of 915 MHz RF transmitters.

The appliance is classified as “*intentional radiator*” in conformity to FCC Part 15 Sub. A §15.201, and it is subject to “*Certification*” procedure.

The application is mainly used as Industrial machines radio remote control; the RF signal when the apparatus is switch-on is continuously present.

It is possible to declare that the appliance it is subject to additional requirements stated in §15.249

### 3. REFERENCE STANDARD FOR PERFORMED TESTS

<i>Reference standard :</i>	<i>Title :</i>
<b>FCC Part 15 part A</b>	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)
<b>FCC Part 15 part C</b>	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)
<b>ANSI C63.4</b>	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

## 4. SUMMARY OF TEST RESULTS

### 4.1 Tests

Port		Phenomena	Operating condition <sup>1</sup>	Result
1	Enclosure	Radiated emission	#1	Within the limit
		Frequency stability	Not applicable	
2	AC mains Input ports	RF Disturbance voltage: <ul style="list-style-type: none"> <li>continuous</li> </ul>	#1	Within the limit
3	DC Power supply and Battery	Bandwidth of emission	#1	Within the limit

<sup>1</sup> Ref. Tab. of Section 2



## 4.2 Emission limits

Acc. to §15.249 for intentional radiator operated within the frequency band 902-928 MHz

Frequency (MHz)	Field Strength of fundamental at a distance of 3m ( $\mu\text{V/m}$ )	Field Strength of spurious emission at a distance of 3m ( $\mu\text{V/m}$ )
<b>902 – 928</b>	<b>50</b>	<b>500</b>

According to §15.209 all the other emission of the appliance shall not exceed the following levels:

Frequency (MHz)	Field Strength at a distance of 3m ( $\mu\text{V/m}$ )
<b>30 - 88</b>	<b>100 **</b>
<b>88 – 216</b>	<b>150 **</b>
<b>216 – 960</b>	<b>200 **</b>
<b>Above 960</b>	<b>500</b>

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

## 5. TEST RESULTS

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**TEST  
1.**

**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)  $\pm$  2.5 dB

TEST CONDITIONS:	MEASURED
Ambient temperature : 15 - 35 °C	24 $\pm$ 3 °C
Ambient humidity : 25 - 75 %rH	40 $\pm$ 5 %rH
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	950 $\pm$ 50 mbar
Voltage : 110Vac	98 Vac $\pm$ 3%

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

**RESULT: Within the limits**

**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

<b>Receiver :</b>	<i>ESMI</i>	<b>Transducer :</b>	<i>ESH3-Z5_PRC</i>
<b>Signal Path :</b>	<i>Path 3</i>	<b>System Transducer :</b>	<i>Rfin1-CP2/X11</i>
<b>Meas. Mode :</b>	<i>Lin</i>	<b>Add. Transd. 1 :</b>	<i>W71.03</i>
<b>Tracking Generator :</b>	<i>Off</i>	<b>Add. Transd. 2 :</b>	<i>None</i>
<b>Input :</b>	<i>1AC</i>	<b>Add. Transd. 3 :</b>	<i>None</i>

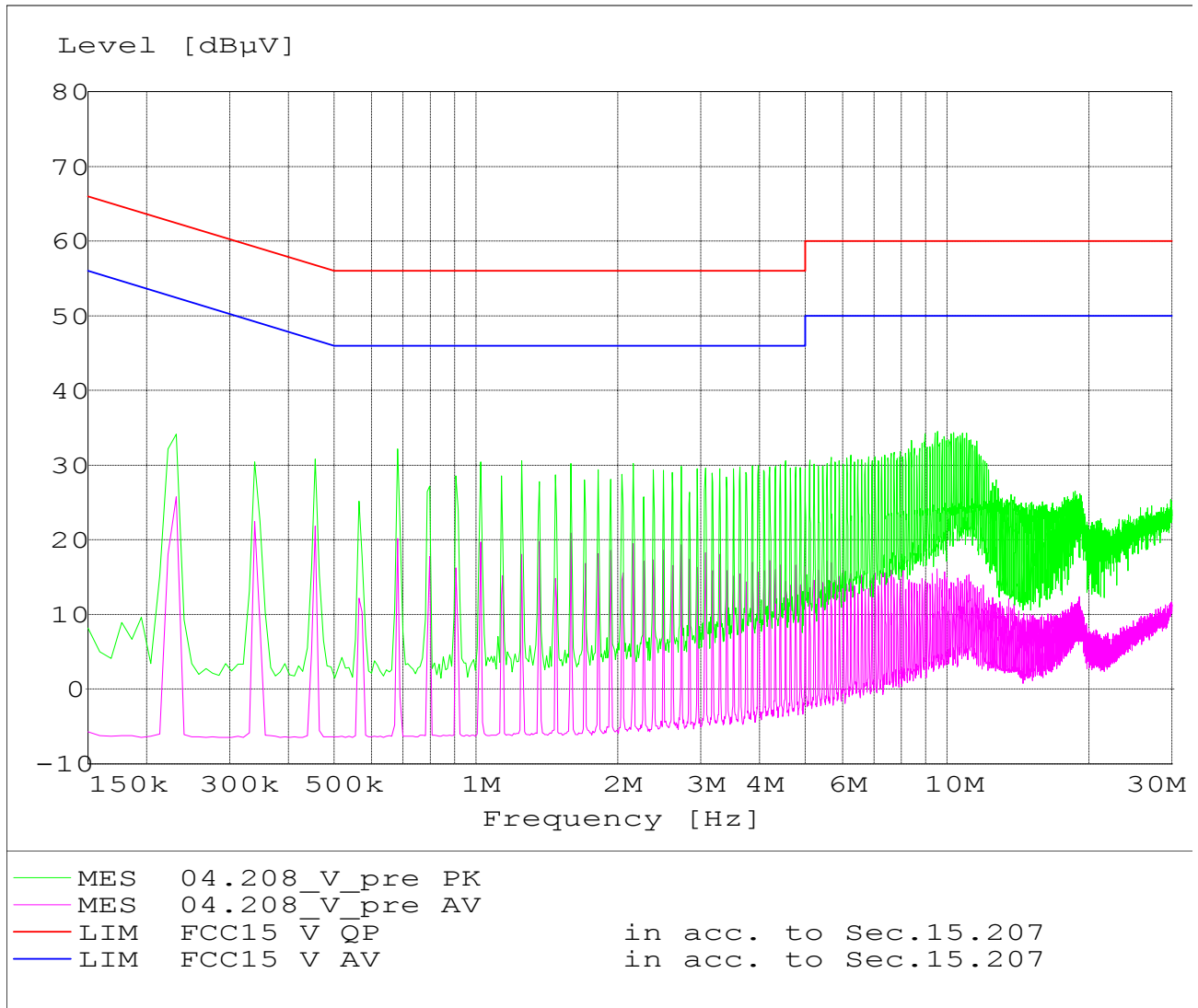
<b>Preamplifier :</b>	<i>10 dB</i>	<b>Demodulation :</b>	<i>FM Broad</i>
<b>RF Att. :</b>	<i>Coupled</i>	<b>Volume :</b>	<i>0 %</i>
<b>Ref. Level :</b>	<i>-10 dBm</i>	<b>Squelch :</b>	<i>--</i>
<b>Min. RF Att. :</b>	<i>0 dB</i>	<b>Option :</b>	<i>None</i>
<b>IF Att. :</b>	<i>0 dB</i>		
<b>Autorange :</b>	<i>On</i>		

<b>Curve 1 :</b>	<i>On</i>	<b>Repetition :</b>	<i>Single</i>
<b>Curve 2 :</b>	<i>On</i>	<b>Stop Mark :</b>	<i>On</i>
		<b>Stop Message :</b>	<i>On</i>
		<b>Stop Message :</b>	<i>Connect EUT</i>



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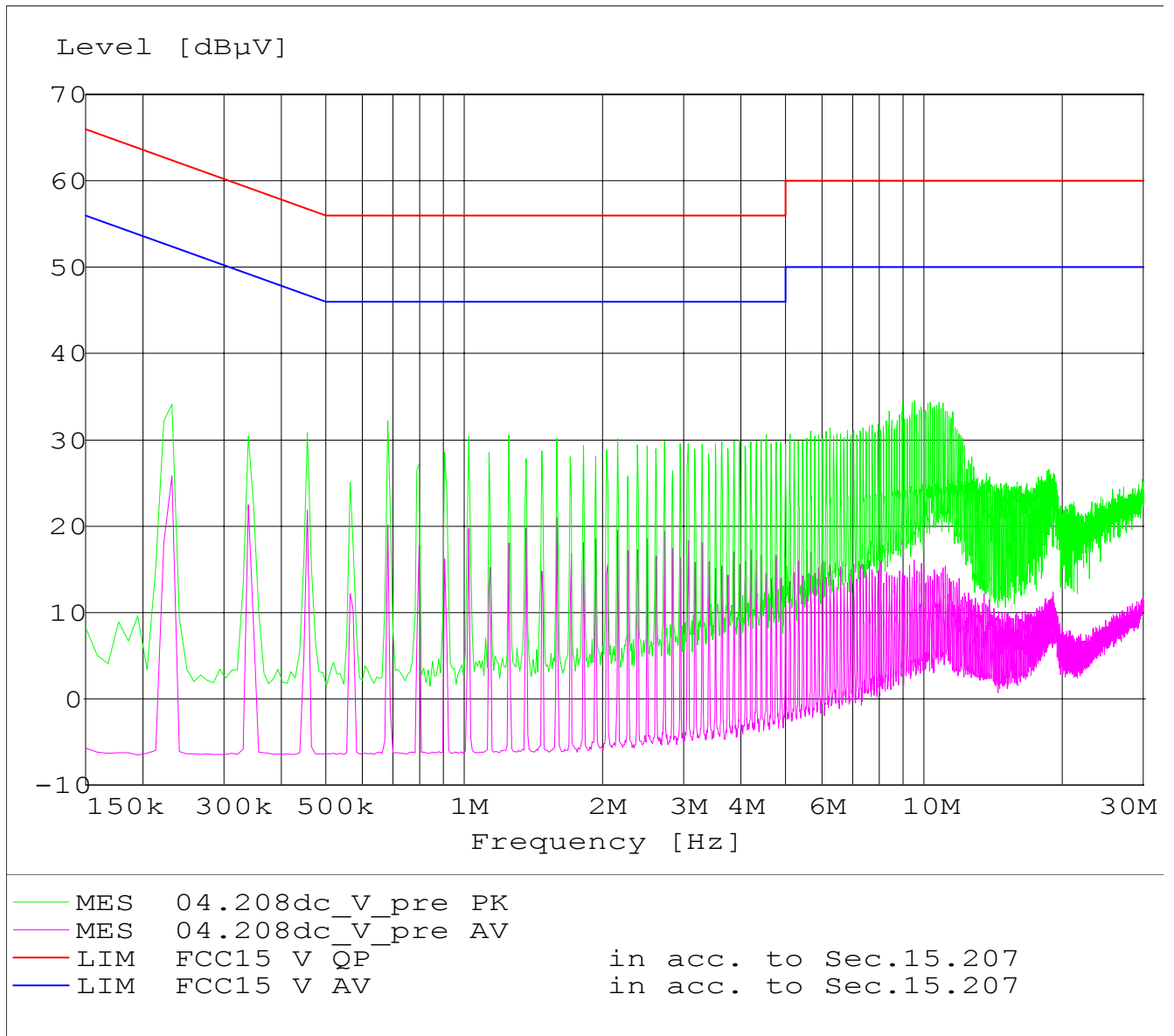
With EUT powered by a generic adapter AC/AC (110 / 12Vac)





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With EUT powered by a generic adapter AC/DC 12Vdc



**TEST  
2.**

**TX – RADIATED FIELD 30 - 1000 MHZ**

**REFERENCE  
DOCUMENT**

FCC PART 15 subpart C

- **TEST LOCATION:** Semi-anechoic chamber ( 3 meter)
- **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 + 15.249  
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	24 $\pm$ 3 °C
Ambient humidity : 25 - 75 %rH	40 $\pm$ 5 %rH
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	950 $\pm$ 50 mbar
Voltage :	12 Vdc

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

**RESULT: WITHIN THE LIMIT**

**SCAN TABLE : “Radiated Emission”**

Unit: dB $\mu$ V/m

Detector : Mode:

Curve1: Max Peak ClearWrite

Curve2: Avg ClearWrite

Subrange:

Start Frequency:	30.0 MHz	Step Size:	80 kHz
Stop Frequency:	1000.0 MHz	IF Bandwidth:	120 kHz
Measure Time:	10 ms		

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		

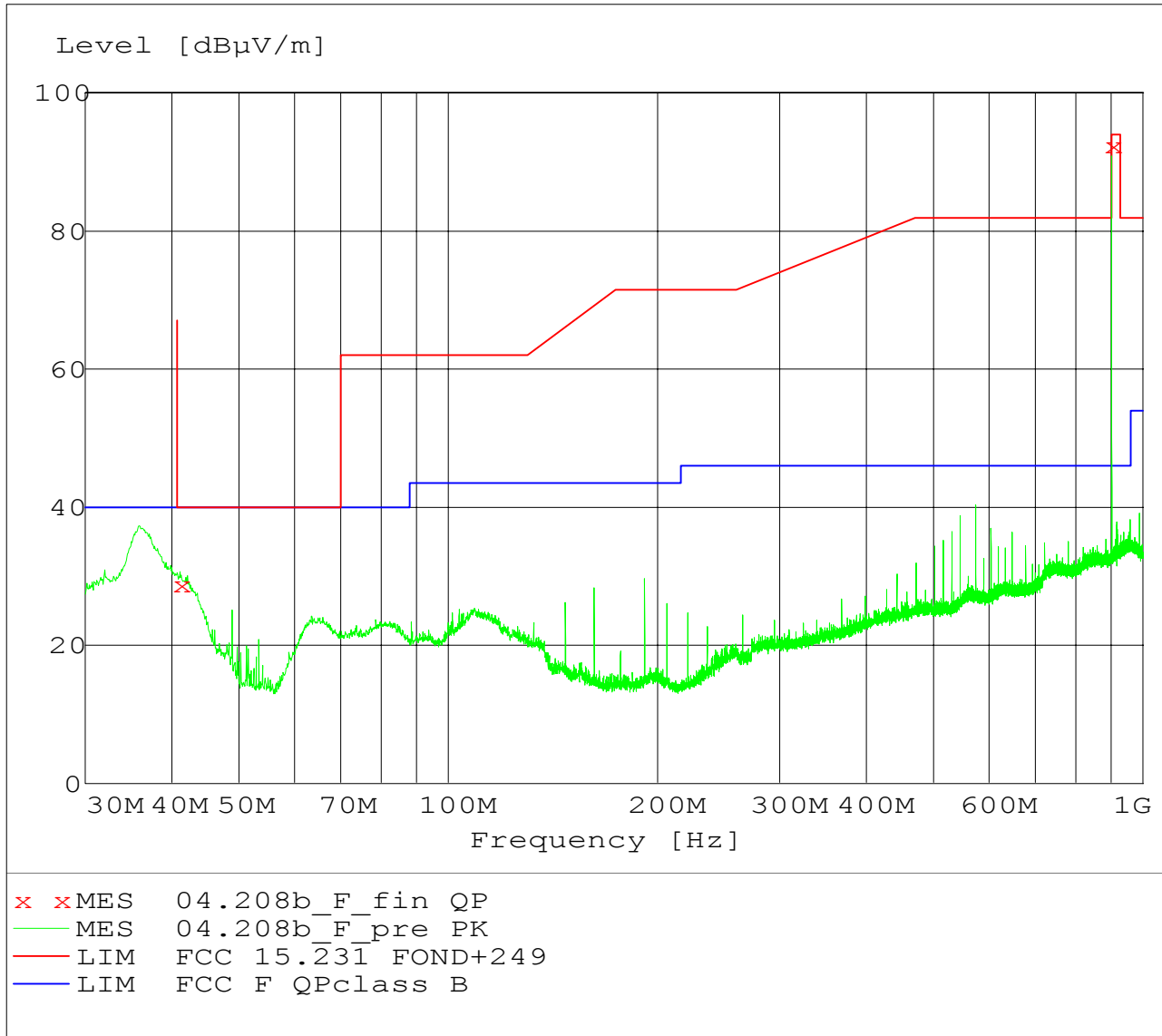
Preamplifier:	10 dB	Demodulation:	FM Broad
RF att.:	Coupled	Volume:	0.0%
Ref. Level:	-50 dBm	Squelch:	--
Min. RF att.:	0 dBm	Option:	None
Autorange:	On		

Curve 1:	On	Repetition:	Single
Curve 2:	On	Stop Mark:	On
		Stop Message:	On
		Text:	Connect antenna



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**EUT powered in AC mode**



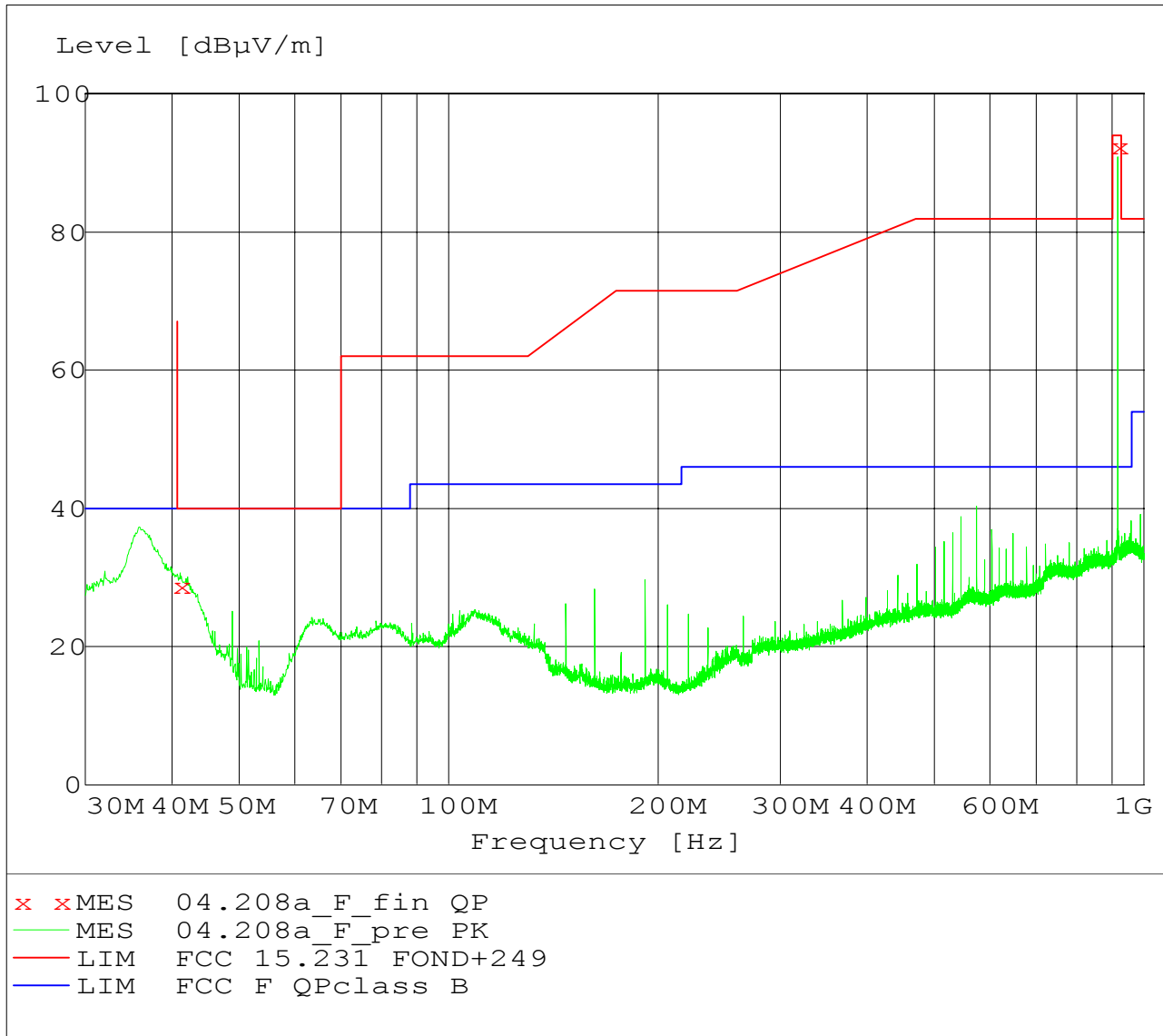
**Result of the bottom frequency**

Frequency	Remark	Limits	Measured QP level	Measured level - Antenna Polarisation
MHz		dBµV/m	dBµV/m	
902.162	Fundamental	93.98	92.20	VERTICAL



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### EUT powered in AC mode



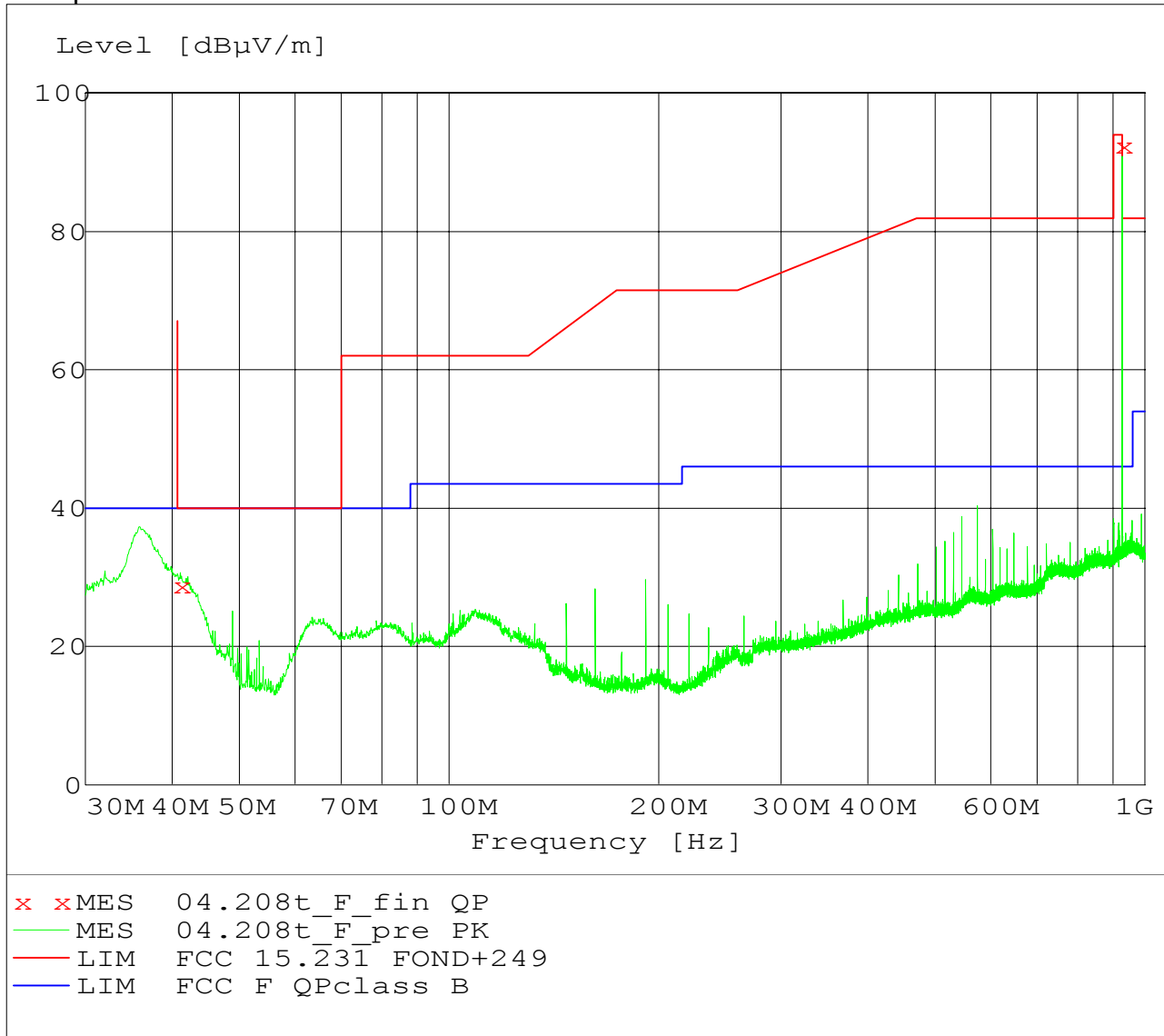
### Result of the center frequency

Frequency	Remark	Limits	Measured QP level	Measured level - Antenna Polarisation
MHz		dBµV/m	dBµV/m	
915.100	Fundamental	93.98	92.40	HORIZONTAL



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### EUT powered in AC mode



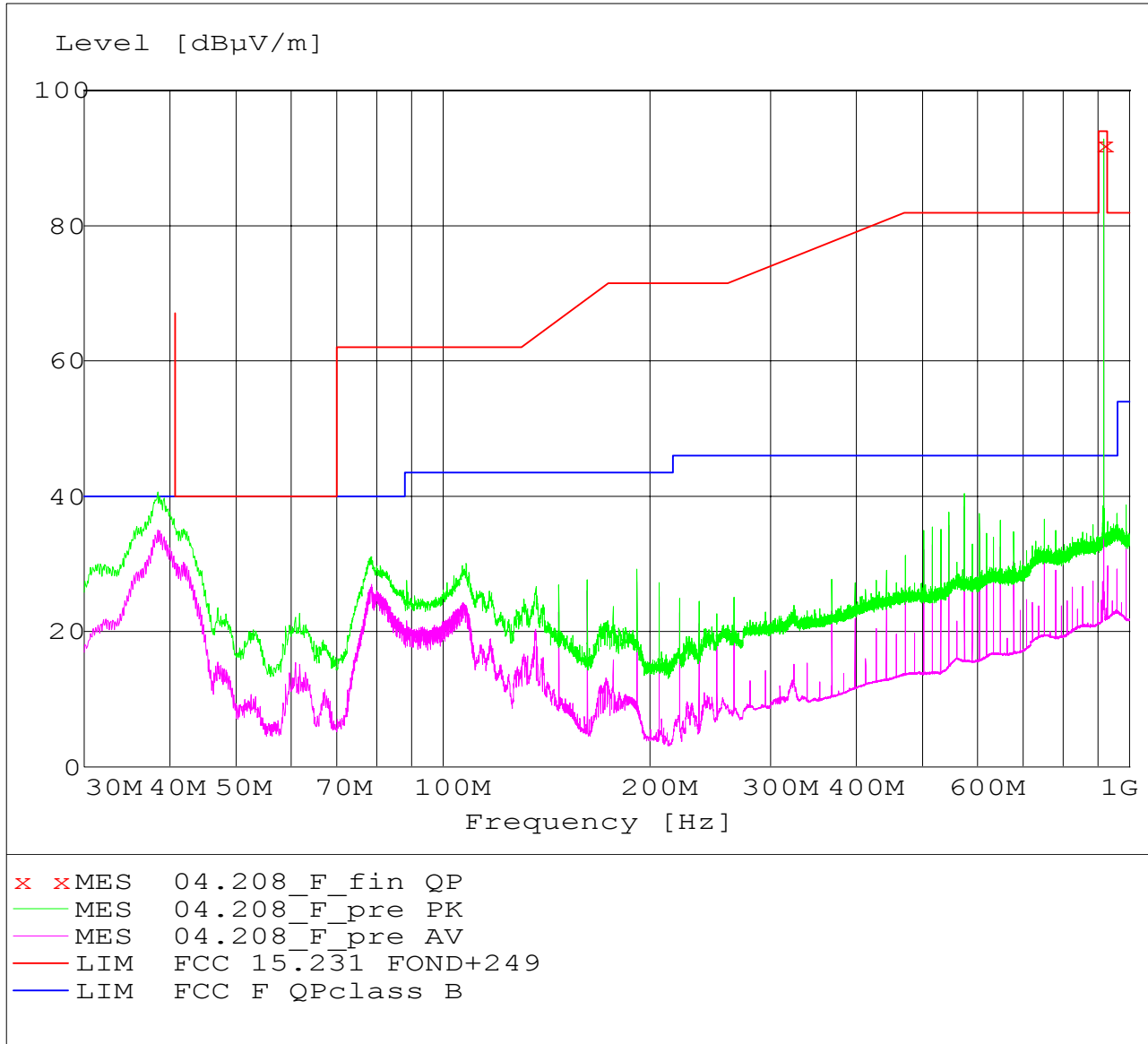
### Result of the top frequency

Frequency	Remark	Limits	Measured QP level	Measured level - Antenna Polarisation
MHz		dBµV/m	dBµV/m	
927.1200	Fundamental	93.98	92.43	HORIZONTAL



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### EUT powered in DC mode 12Vdc



### Result of the center frequency

Frequency	Remark	Limits	Measured QP level	Measured level - Antenna Polarisation
MHz		dBµV/m	dBµV/m	
915.120	Fundamental	93.98	92.42	HORIZONTAL

**We not have repeat the radiated test also to bottom and top frequency because the test result of the center frequency is the same between the dual mode of power supply.**

**We presume that the test result of transmission channel will be identical.**

**TEST  
3.**

**TX – SPURIOUS EMISSION 1 - 10 GHz**

**REFERENCE  
DOCUMENT**

FCC PART 15 subpart C

- **TEST LOCATION:** Semi-anechoic chamber ( 3 meter)
- **TEST EQUIPMENT USED FOR TEST:** Spectrum Analyzer Rohde & Schwarz Mod. FSP (9kHz-40GHz)  
Log-periodica Broadband Antenna mod. HL025
- **TESTED PORT:** Enclosure
- **EMISSION LIMITS:** Acc. to Section 15.209 of reference document
- **FREQUENCY BAND :** Fundamental Frequency to 10<sup>th</sup> harmonics acc. to §15.33 (a)
- **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	24 $\pm$ 3 °C
Ambient humidity : 25 - 75 %rH	40 $\pm$ 5 %rH
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	950 $\pm$ 50 mbar
Voltage :	12 Vdc

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

**RESULT: WITHIN THE LIMIT**

**SCAN TABLE : “Radiated Emission”**

Unit: dB $\mu$ V/m

Detector : Mode:

Curve1: Max Peak ClearWrite

Curve2: -- ClearWrite

Subrange:

Start Frequency:	1000.0 MHz	Step Size:	600 kHz
Stop Frequency:	10000.0 MHz	Probe Transducer:	HL025
Measure Time:	100 ms		
IF Bandwidth:	1 MHz		
Receiver:	FSP		
Signal Path:	Path 4	System Transducer:	RFin2-CP1/X11
Scan Mode:	Lin	Add. Transducer:	W71.01
Tracking Gen.:	Off		
Input:	1		
Preamplifier:	0 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

Limit in acc. to provisions of §15.249 for frequencies between 902-928 MHz related to field strength of spurious emissions.

In addition to the limits over mentioned, in according to Section 15.205 for restricted bands, the limit applied is 54 dB $\mu$ V/m

**Measurement results**

<i>Frequency</i> [MHz]	<i>Remark</i>	<i>AV Level</i> [dB $\mu$ V/m]	<i>+PK level</i> [dB $\mu$ V/m]	<i>AV Limit</i> [dB $\mu$ V/m]
1807,617	Spurious	50,11	52,13	54,00
2711,568	Spurious	37,80	39,61	54,00
3615,312	Spurious	35,98	38,12	54,00
4519,241	Spurious	46,73	48,67	54,00
5422,851	Spurious	more than 20dB below limit	more than 20dB below limit	54,00
6326,665	Spurious	more than 20dB below limit	more than 20dB below limit	61,94
7230,470	Spurious	more than 20dB below limit	more than 20dB below limit	61,94
7400 < f < 10000	Spurious	more than 20dB below limit	more than 20dB below limit	54,00

**With the EUT powered in AC mode we have recorded the same AV and +PK level**

**TEST  
4.**

**TX – RANGE OF MODULATION BANDWIDTH**

**REFERENCE  
DOCUMENT**

FCC PART 15 subpart C

- **TEST LOCATION:** Semi-anechoic chamber ( 3 meters)
- **TEST EQUIPMENT USED FOR TEST:** Spectrum Analyzer Rohde & Schwarz Mod. FSP (9kHz-40GHz)  
Log-periodica Broadband Antenna mod. HL025
- **TESTED PORT:** AC Mains, DC Port and Battery
- **EMISSION LIMITS:** Acc. to Section 15.215 c) of reference document

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 :	12 Vdc

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

**RESULT: WITHIN THE LIMIT**



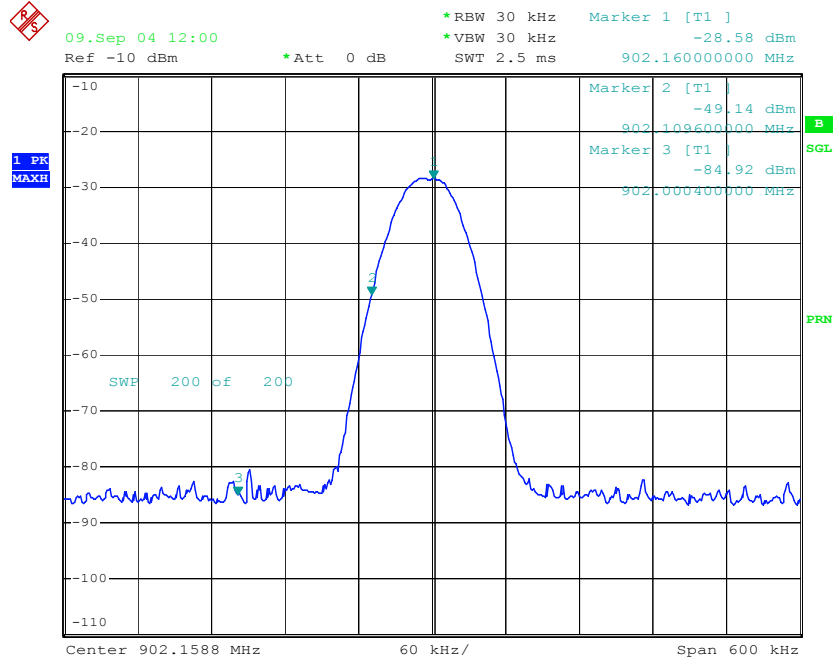
**MEASUREMENT RESULTS**

<b>TEST CONDITIONS</b>		<b>Occupied frequency range (at 20 dB point)</b>		
		<b>f<sub>L</sub> [MHz]</b>	<b>F<sub>C</sub> [MHz]</b>	<b>f<sub>H</sub> [MHz]</b>
T <sub>amb</sub> : + 24 °C	V <sub>nom</sub> : 12 Vdc	902.1096	----	927.775
Incertezza di misura / Measurement Uncertainty : ± 0.1 kHz				
Legenda / Abbreviations : <b>f<sub>L</sub></b> : Lowest frequency at 20dB point <b>F<sub>C</sub></b> : Central frequency <b>f<sub>H</sub></b> : Highest frequency at 20dB point				

<b>LIMITS</b>
<b>Permitted operating frequency range</b>
902 – 928 MHz

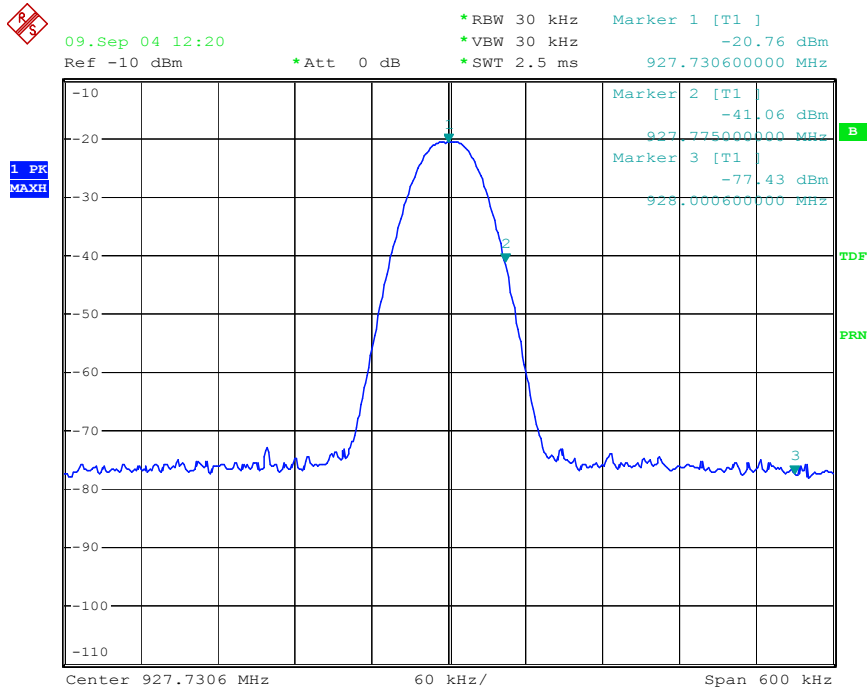
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Diagram for bottom frequency



Date: 9.SEP.2004 12:01:05

Diagram for top frequency



Date: 9.SEP.2004 12:20:28

## 6. EUT TECHNICAL DOCUMENTATION

### 6.1 Wiring diagrams

	<i>Document reference (n., edition, date, ...)</i>
<b>WIRING DIAGRAM</b>	<p>Doc. No. SC000218.dsn File name : Board interface E16SQ01A-Z.0 Issue date: 2004-05-08 Rev. 0 Sheet no. 1</p> <p>Doc. No. SC000217.dsn File name : mother board E16TQ01A-Z.0 Issue date: 2004-02-27 Rev. 1 Sheet no. 1</p> <p>Doc. No. SC000259.dsn File name : E16STXUS1 E16S transmitter module Issue date: 2003-06-03 Rev. 0 Sheet no. 4</p> <p>Doc. No. SC000222.dsn File name : Address key for E16/E16S Issue date: 2004-03-01 Rev. 1 Sheet no. 1</p>
<b>PART LIST</b>	<p>Ref. file : TG02 202D_bill.pdf Issue date of file: 2004-06-29 Sheet no. 1</p>

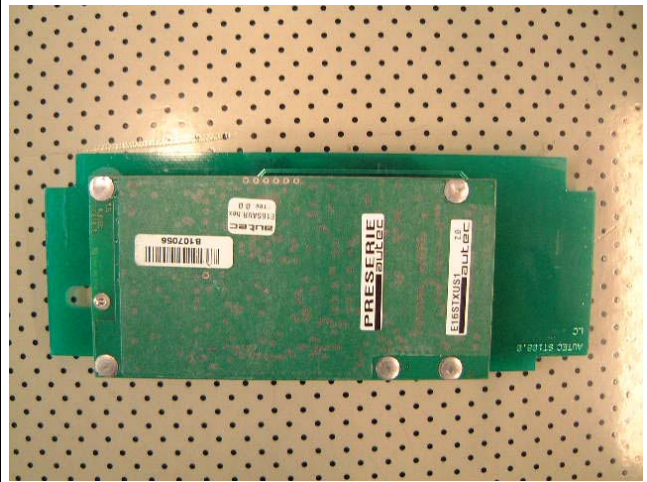
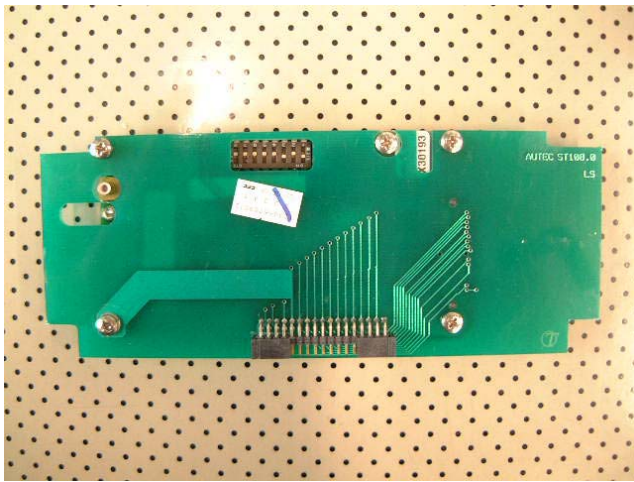
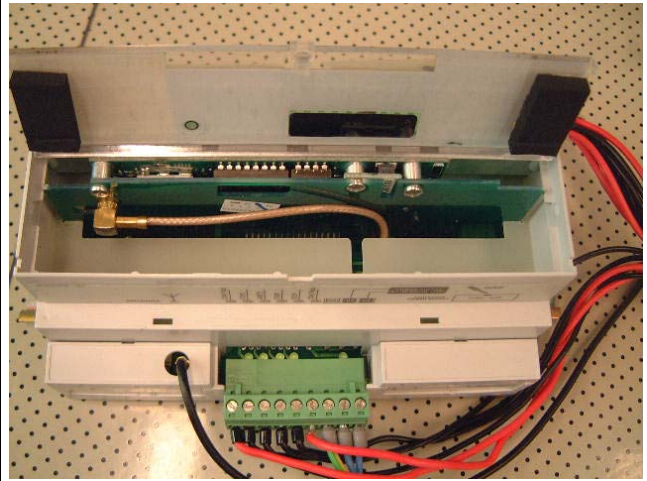
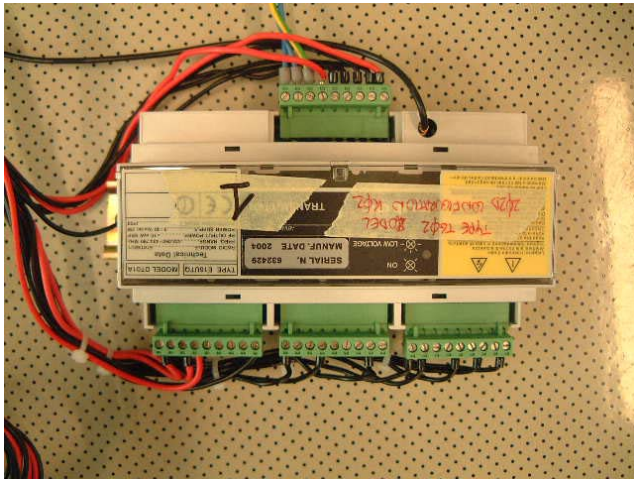
### 6.2 Technical manual

	<i>Document reference (n., edition, date, ...)</i>
<b>Transmitter system User's Manual</b>	<p>LIKTCNA0.pdf sheet no. 32</p>

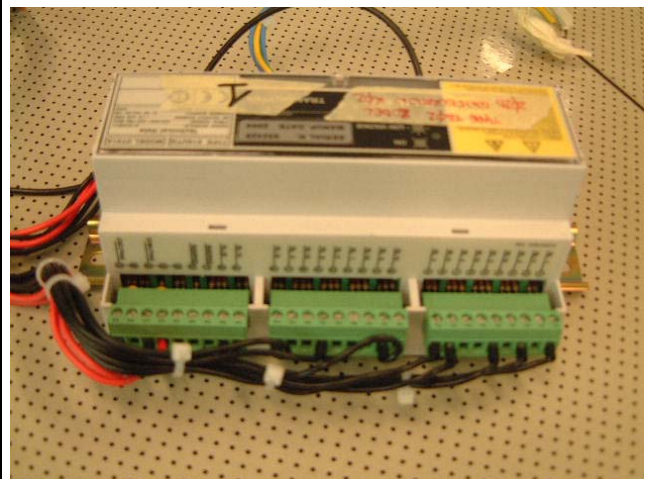
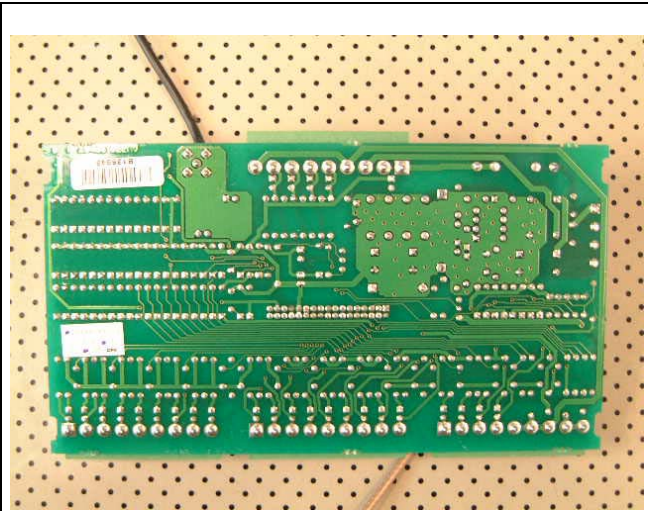
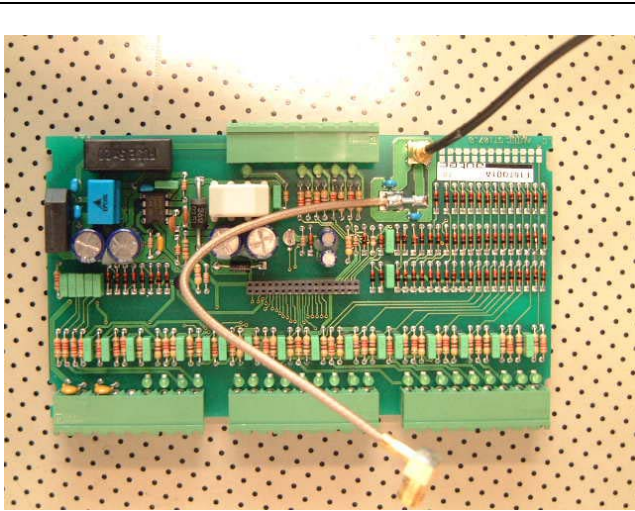
Prima Ricerca & Sviluppo Srl soggetta a direzione e coordinamento da parte della Giovanni Maspero & C. S.p.A. – C.I. 02634780130  
Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139  
Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO)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

**6.3 Photographic documentation**

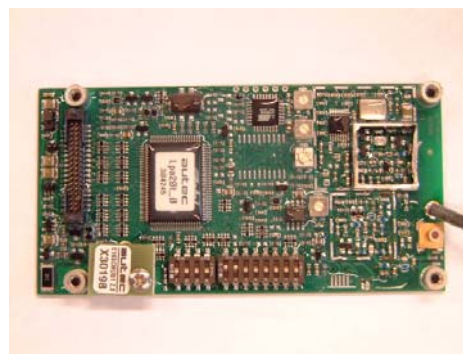
**PHOTO N° 1 – EQUIPMENT UNDER TEST IDENTIFICATION**



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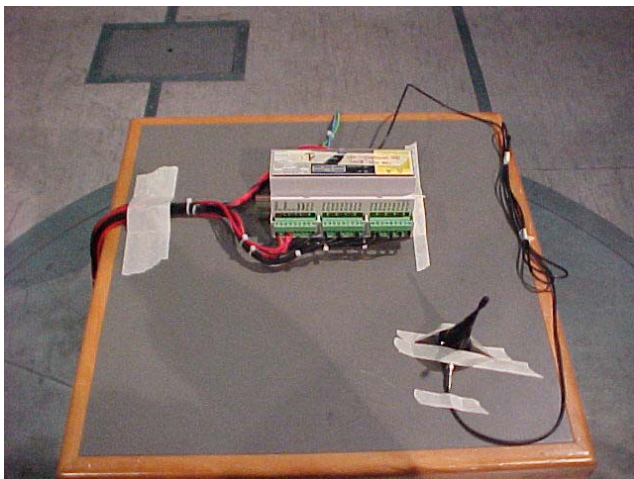
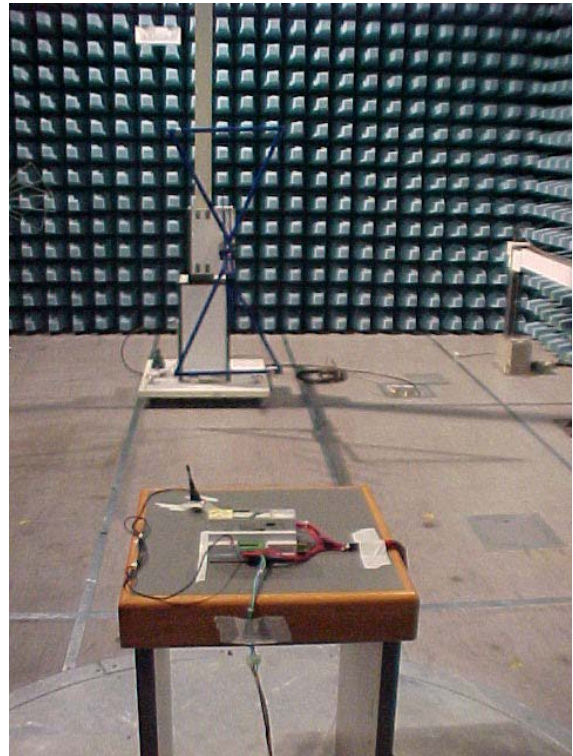
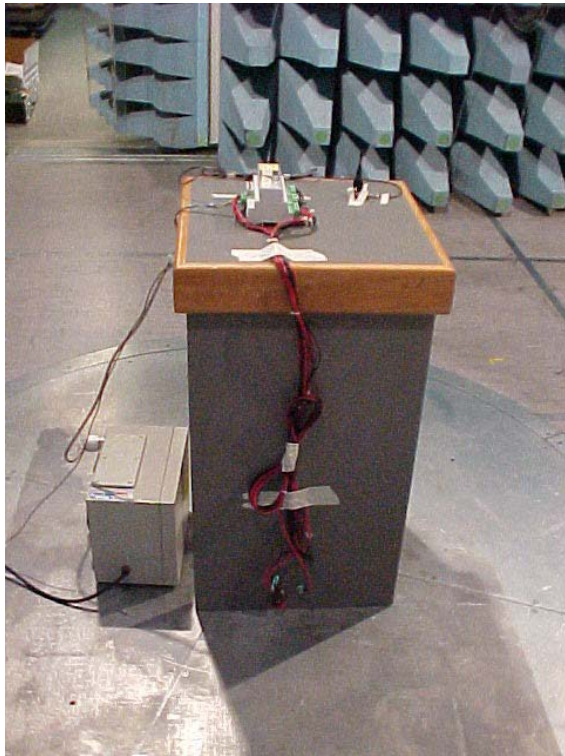
TOP VIEW OF TRANSMITTER BOARD CODE  
 E16STXUS1



TOP VIEW OF TRANSMITTER BOARD CODE  
 E16STXUS1 WITHOUT ALL SHIELD

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**PHOTO N° 2 – SET-UP FOR EMISSION RADIATED TEST WITH AC POWER SOURCE**



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**PHOTO N° 3 – SET-UP FOR EMISSION RADIATED TEST WITH DC POWER SOURCE**

