

#### CMC Centro Misure Compatibilità S.r.l.

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Independent Testing Laboratory

# TEST REPORT nr. R16150201 Federal Communication Commission (FCC)

Test item

Description...... INDUCTION RANGE TOP

Trademark.....: MENEGHETTI

Model/Type ...... RTUI304\*\*M (The variable fields are related to the color version)

**Test Specification** 

Standard...... FCC Rules & Regulations, Title 47:2015

Part 18 paragraph(s): 305 and 307

Client's name ...... MENEGHETTI S.p.A.

Address ...... Via Borgo Lunardon, 8 – 36027 Rosa' (VI) – ITALY

Manufacturer's name: Same as client

Address ..... --

Report

Tested by ...... G. Gandini – Technician

 DB F

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The test results presented in this report relate only to the item tested.

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**ANNEX 1:** component list



# 1. Summary

Emission Test:

FCC Rules & Regulations, Title 47:2015 Part 18 paragraph(s): 305 and 307

| Test specifications | Environmental Phenomena           | Port           | Tests sequence | Result   |
|---------------------|-----------------------------------|----------------|----------------|----------|
| Part 18.305         | Radiated disturbance              | Enclosure      | 1              | Complies |
| Part 18.307         | Continuous disturbance<br>voltage | Mains terminal | 2              | Complies |

The Test Report was given to the Client representatives for necessary documentation of ratification of the tested equipment and it is valid for the FCC certification.

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# 2. Description of Equipment under test (EUT)

Power supply.....: 208-240 V ~ 60 Hz single-phase + earth

Tests performed on 240 V ~ power supply

Power cable .....: Unshielded

Serial Number....: --

Components list ...... Annex 1

Filtering and construction devices ....... Addition of ferrite, 2 turns on AC power cable

## 2.1 Test Site

Company .....: CMC Centro Misure Compatibilità S.r.l.

Address .....: Via della Fisica, 20

36016 Thiene (VI) – ITALY

Test site facility's FCC registration number ...... 271947

# 3. Testing and sampling

Testing start date .....: 18.07.16

Testing end date .....: 13.10.16

Samples tested nr.....: 1

Sampling procedure. .....: Equipment used for testing was picked up by the

manufacturer, at the end of the production

process with random criterion

Internal identification .....: adhesive label with the product number P160832

# 4. Operative conditions

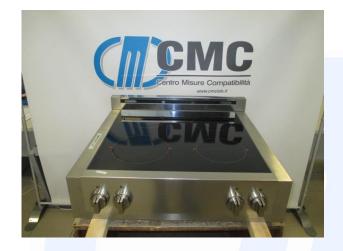
EUT exercising ....... Heating mode, worst case of power level

Auxiliary equipment .....: None



# 5. Photograph(s) of EUT

# 5.1 Photograph(s) of EUT





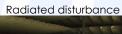
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#### 5.2 Photograph(s) of setup









# 6. Equipment list

| ld. number | Manufacturer       | Model                   | Description                               | Serial number | Last<br>calibration | Due date<br>calibration |
|------------|--------------------|-------------------------|---|---------------|---------------------|-------------------------|
| CMC \$010  | Rohde &<br>Schwarz | ESH3-Z2                 | Impulses<br>Limiting Device               |               | January '16         | January '17             |
| CMC \$108  | EMCO               | 3115                    | Horn Antenna                              | 9811-5622     | June '16            | June '19                |
| CMC \$127  | Schaffner          | HLA6120                 | Loop Antenna                              | 1191          | November '13        | November '16            |
| CMC \$164  | Rohde &<br>Schwarz | ESU26                   | EMC<br>interference<br>receiver           | 100052        | January '16         | January '17             |
| CMC \$200  | Schwarzbeck        | NSLK 8128               | V-LISN                                    | 8128-273      | January '16         | January '17             |
| CMC \$227  | Rohde &<br>Schwarz | ESR7                    | EMI Test<br>Receiver 7GHz                 | 101121        | January '16         | January '17             |
| CMC \$271  | Schwarzbeck        | BBA 9106 +<br>VHBB 9124 | Biconical<br>Antenna (30-<br>300MHz)      | 831           | June '16            | June '19                |
| CMC \$287  | Schwarzbeck        | VUSLP 9111B             | Log-periodic<br>Antenna (200<br>MHz-3Ghz) | 9111B-203     | June '16            | June '19                |

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# Measurement uncertainty

| Test   | Expanded Uncertainty | note |
|--|----------------------|------|
| Conducted Emission   |                      |      |
| (50Ω/50μH AMN) - (9 kHz – 150 kHz)                           | ±3,6 dB              | 1    |
| (50Ω/50μH AMN) - (150 kHz – 30 MHz)                          | ±3,0 dB              | 1    |
| (Voltage probe) - (150 kHz – 30 MHz)                         | ±2,9 dB              | 1    |
| (50Ω/5μH AMN) - (150 kHz – 108 MHz)                          | ±2,6 dB              | 1    |
| Discontinuous Conducted Emission                             |                      |      |
| Conducted Emission (50Ω/50μH AMN) - (150 kHz – 30 MHz)       | ±3,0 dB              | 1    |
|  |                      |      |
| Disturbance Power (30 MHz – 300 MHz)                         | ±3,4 dB              | 1    |
| Radiated Emission  |                      |      |
| (0,150 MHz – 30 MHz)   | ±3,8 dB              | 1    |
| (30 MHz – 1000 MHz)  | ±3,8 dB              | 1    |
| (1 GHz – 6 GHz)  | ±4,3 dB              | 1    |
|  |                      | N N  |
| Electromagnetic field EMF                                    | ±10,5 %              | 1    |
|  |                      |      |
| Harmonic current emissions test                              | ±1,2 %               | 1    |
| Voltage fluctuation and flicker test                         | ±3,8 %               | 1    |
|  |                      |      |
| Insertion loss test  | ±2,0 dB              | 1 /  |
| Radiated electromagnetic disturbance test (loop antenna)     | ±1,5 dB              | 1 /  |
|  |                      | 7    |
| Radiated electromagnetic field immunity test                 | 0,81 V/m at 3V/m     | 1    |
| Pulse modulated radiated electromagnetic field immunity test | 0,81 V/m at 3V/m     | 1    |
| Injected currents immunity test                              | 0,45 V at 3V         | 1    |
| Bulk current   | 3,7 mA at 60 mA      | 1    |
| Power frequency magnetic field immunity test                 | 0,23 A/m at 10 A/m   | 1    |
|  |                      |      |
| Effective radiated power (F < 1GHz)                          | ±3,8 dB              | 1    |
| Effective radiated power (F > 1GHz)                          | ±5,5 dB              | 1    |
| Frequency error  | < 1x10-7             | 1    |
| Modulation bandwidth   | < 1x10-7             | 1    |
| Conducted RF power and spurious emission                     | ±0,7 dB              | 1    |
| Adjacent channel power                                       | ±1,2 dB              | 1    |
| Blocking   | ±1,2 dB              | 1    |
|  |                      |      |
| Electrostatic discharge immunity test                        |                      | 2    |
| Electrical fast transients / burst immunity test             |                      | 2    |
| Surge immunity test  |                      | 2    |
| Pulse magnetic field immunity test                           |                      | 2    |
| Damped oscillatory magnetic field immunity test              |                      | 2    |
| Short interruption immunity test                             |                      | 2    |
|  |                      |      |
| Voltage transient emission test                              | ±2,2 %               | 1    |
| Transient immunity test                                      |                      | 2    |
| Rev_16_01 date 09/02/2016                                    |                      |      |

#### Note 1

The expanded uncertainty reported according to EN55016-4-2:2011 is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of p=95%

#### Note 2:

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence, covering factor k = 2.

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# 8. Reference documents

| Reference no.                                      | Description   |  |
|--|---|--|
| FCC Rules and Regulation Title 47 part 18:2015     |   |  |
| FCC Measurement Procedure MP-5:1986                | FCC Methods of measurements of radio noise emissions from |  |
|  | Industrial, Scientific and Medical equipment              |  |
| Internal Procedure PM001 rev. 2.0 (Quality Manual) | Measure procedure   |  |
| Internal procedure INC M rev. 8.2 (Quality Manual) | Measurement uncertainty calculation                       |  |



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# 9. Deviation from test specification

In agreement with the client, emission tests were performed with peak detector.

At the frequencies where the measures exceed the limit or within 6 dB from it, the test was repeated with quasi-peak detector and/or average detector.

# 10. Test case verdicts

Test case does not apply to the test object ...........: N.A.

Test item does meet the requirement.....: Complies

Test item does not meet the requirement.....: Does not comply

Test not performed ...... N.E.

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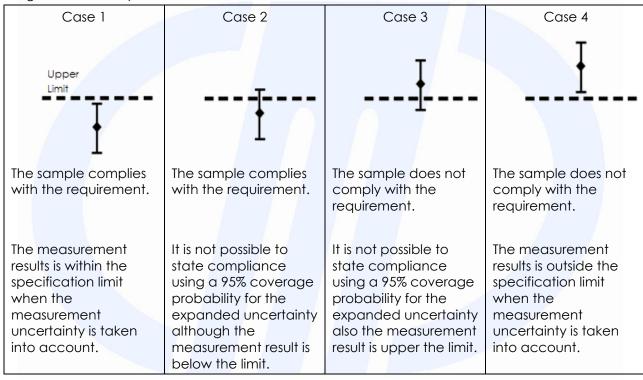


# 11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC\_M rev. 8.2.

# Judgement of compliance:



In agreement with ILAC-G8: 03/2009 Guidelines on the Reporting of Compliance with Specification.



# 11.1 Continuous disturbance voltage test

# Test set-up and execution

 FCC Rules and Regulation; Titles 47 Part. 18 307

• FCC Measurement Procedure MP-5

• Internal procedure PM001

• See clause 4 of this test report

# **EUT** exercising

See clause 4 of this test report

# **Test specification**

Port: Mains terminal

Frequency range: 9 kHz - 30 MHz

# Test configuration and test method

Test site:

Shielded chamber

Auxiliary equipment:

See clause 4 of this test report

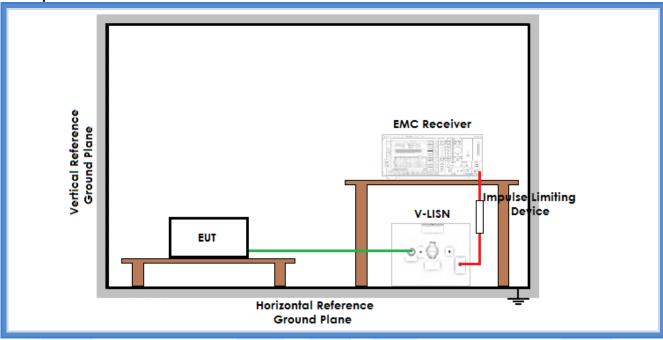
# Test equipment used

CMC S010, CMC S200, CMC S227 Measurement uncertainty: See clause 7 of this test report

# **Acceptance limits**

| Limits for all induction cooking ranges and ultrasonic equipment |                |          |  |  |  |
|--|----------------|----------|--|--|--|
| Frequency range (MHz)  | dB(μV) Average |          |  |  |  |
| 0,009 to 0,05  |                |          |  |  |  |
| 0,05 to 0,15   | 90 to 80       |          |  |  |  |
| 0,15 to 0,5  | 66 to 56       | 56 to 46 |  |  |  |
| 0,5 to 5   | 56             | 46       |  |  |  |
| 5 to 30  | 60             | 50       |  |  |  |

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## Result

| I/C30II  |           |                                   |          |
|----------|-----------|-----------------------------------|----------|
| Line     | Graphs    | Remarks                           | Result   |
| L1       | G16150209 | Power level 9, bottom right plate | Complies |
| N        | G16150210 | Power level 9, bottom right plate | Complies |
| N        | G16150211 | Power level 9, top right plate    | Complies |
| L1       | G16150212 | Power level 9, top right plate    | Complies |
| N        | G16150213 | Power level 9, top left plate     | Complies |
| L1       | G16150214 | Power level 9, top left plate     | Complies |
| N        | G16150215 | Power level 9, bottom left plate  | Complies |
| L1       | G16150216 | Power level 9, bottom left plate  | Complies |
| Remarks: |           |                                   |          |

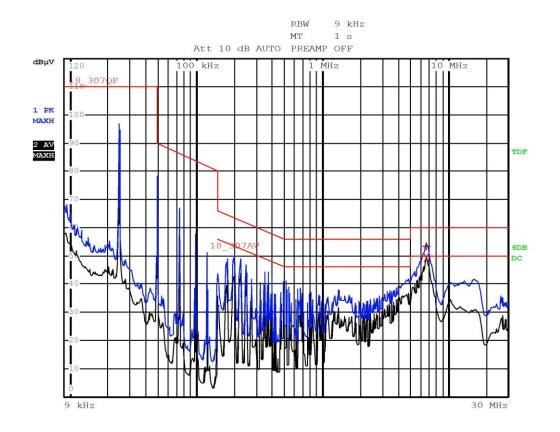
Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a + AV: Average; AV [1s] (average at 1 second) values are marked with a X

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# Graphs

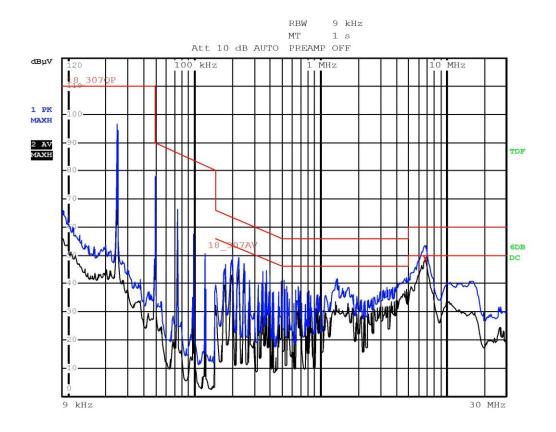


Gandini 16150209-Line L-Bottom right zone - power 9

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| EDIT         | PEAK LIST (Final | Measurement Res | sults)         |
|--------------|------------------|-----------------|----------------|
| Trace1:      | 18_307QP         |                 |                |
| Trace2:      | 18_307AV         |                 |                |
| Trace3:      | <b></b>          |                 |                |
| TRACE        | FREQUENCY        | LEVEL dBµV      | DELTA LIMIT dB |
| 2 Average    | 6.762 MHz        | 49.39           | -0.60          |
| 1 Quasi Peak | 6.786 MHz        | 53.35           | -6.64          |
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Gandini 16150209-Line L-Bottom right zone - power 9

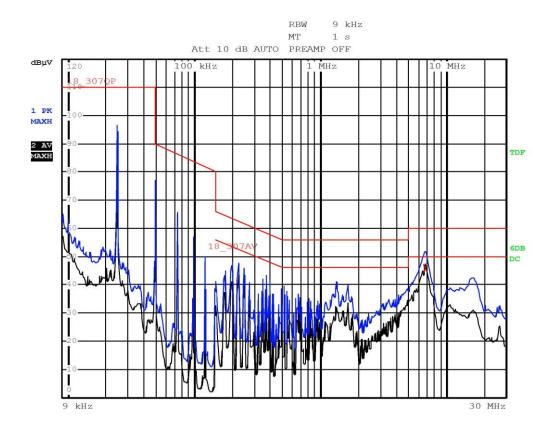


Gandini 16150210-Line N-Bottom right zone - power 9

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| El        | OIT PEAK LIST (Fina | 1 Measurement | Results)       |
|-----------|---------------------|---------------|----------------|
| Trace1:   | 18_307QP            |               |                |
| Trace2:   | 18_307AV            |               |                |
| Trace3:   |                     |               |                |
| TRACE     | FREQUENCY           | LEVEL dBµV    | DELTA LIMIT de |
| 2 Average | 6.886 MHz           | 48.72         | -1.27          |
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Gandini 16150210-Line N-Bottom right zone - power 9

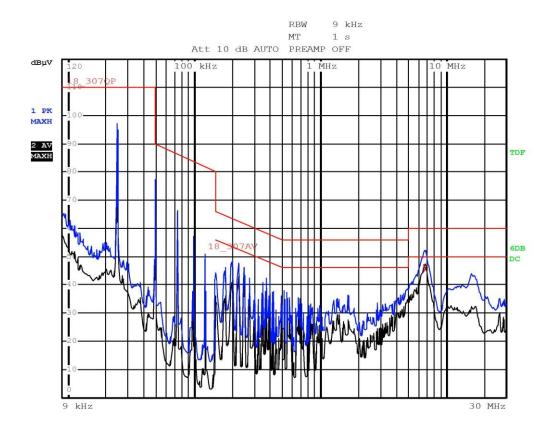


Gandini 16150211-Line N-Top right zone - power 9

|           | EDIT PEAK LIST | (Prescan Results) |                |
|-----------|----------------|-------------------|----------------|
| Tracel:   | 18_307QP       |                   |                |
| Trace2:   | 18_307AV       |                   |                |
| Trace3:   |                |                   |                |
| TRACE     | FREQUENCY      | LEVEL dBµV        | DELTA LIMIT de |
| 2 Average | 6.834 MHz      | 47.33             | -2.66          |
|           |                |                   |                |
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Gandini 16150211-Line N-Top right zone - power 9

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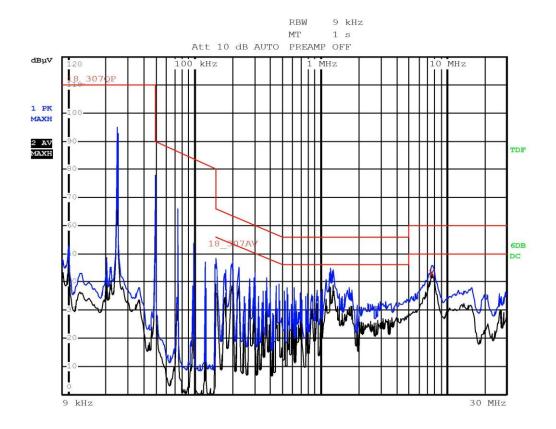


Gandini 16150212-Line L-Top right zone - power 9

| 1         | EDIT PEAK LIST (Fina | al Measurement | Results)       |
|-----------|----------------------|----------------|----------------|
| Tracel:   | 18_307QP             |                |                |
| Trace2:   | 18_307AV             |                |                |
| Trace3:   |                      |                |                |
| TRACE     | FREQUENCY            | LEVEL dBµV     | DELTA LIMIT de |
| 2 Average | 6.883 MHz            | 45.88          | -4.11          |
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Gandini 16150212-Line L-Top right zone - power 9

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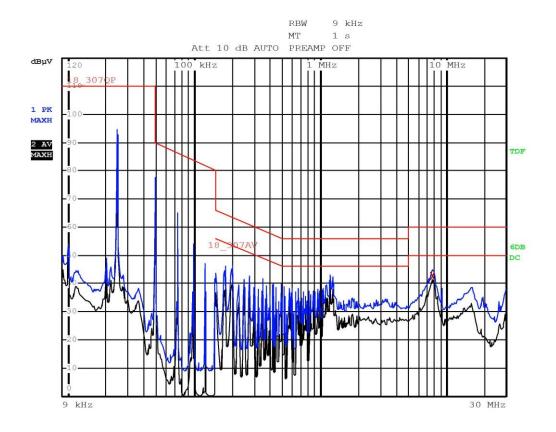


Gandini 16150213-Line L-Top left zone - power 9

| EDI'      | r PEAK LIST (Final | Measurement Resul | ts)            |
|-----------|--------------------|-------------------|----------------|
| Tracel:   | 18_307QP           |                   |                |
| Trace2:   | 18_307AV           |                   |                |
| Trace3:   |                    |                   |                |
| TRACE     | FREQUENCY          | LEVEL dBµV        | DELTA LIMIT di |
| 2 Average | 7.674 MHz          | 43.05             | -6.94          |
|           |                    |                   |                |
|           |                    |                   |                |

Gandini 16150213-Line L-Top left zone - power 9

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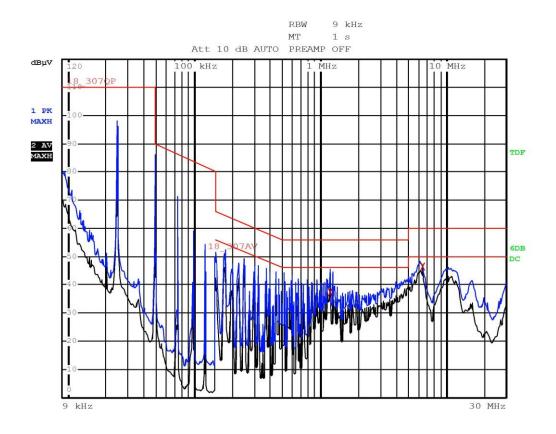


Gandini 16150214-Line N-Top left zone - power 9

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| E         | DIT PEAK LIST (Fina | l Measurement | Results)       |
|-----------|---------------------|---------------|----------------|
| Trace1:   | 18_307QP            |               |                |
| Trace2:   | 18_307AV            |               |                |
| Trace3:   |                     |               |                |
| TRACE     | FREQUENCY           | LEVEL dBµV    | DELTA LIMIT dB |
| 2 Average | 7.846 MHz           | 42.56         | -7.43          |
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Gandini 16150214-Line N-Top left zone - power 9

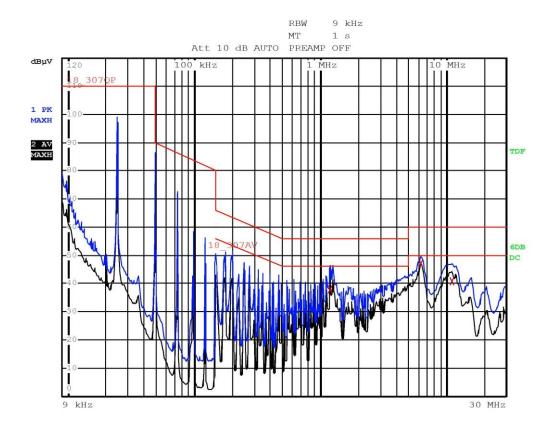


Gandini 16150215-Line N-Bottom left zone - power 9

| E         | DIT PEAK LIST (Fina | il Measurement Re | sults)         |
|-----------|---------------------|-------------------|----------------|
| Tracel:   | 18_307QP            |                   |                |
| Trace2:   | 18_307AV            |                   |                |
| Trace3:   |                     |                   |                |
| TRACE     | FREQUENCY           | LEVEL dBµV        | DELTA LIMIT di |
| 2 Average | 1.21 MHz            | 37.36             | -8.63          |
| 2 Average | 6.49 MHz            | 46.55             | -3.44          |
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Gandini 16150215-Line N-Bottom left zone - power 9

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Gandini 16150216-Line L-Bottom left zone - power 9

|           | EDIT PEAK LIST (Fina | 1 Measurement | Results)       |
|-----------|----------------------|---------------|----------------|
| Trace1:   | 18_307QP             |               |                |
| Trace2:   | 18_307AV             |               |                |
| Trace3:   |                      |               |                |
| TRACE     | FREQUENCY            | LEVEL dBµV    | DELTA LIMIT dB |
| 2 Average | 1.21 MHz             | 37.99         | -8.00          |
| 2 Average | 6.342 MHz            | 47.19         | -2.80          |
| 2 Average | 11.178 MHz           | 40.76         | -9.23          |
|           |                      |               |                |
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Gandini 16150216-Line L-Bottom left zone - power 9

Result: The requirements are met

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#### 11.2 Radiated disturbance test

## Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 18.305
- FCC Measurement Procedure MP-5
- Internal procedure PM001
- See clause 4 of this test report

## **EUT** exercising

See clause 4 of this test report

# **Test specification**

Port: Enclosure

Frequency range: 9 kHz - 30 MHz

Antenna polarization: Horizontal (H) – Vertical (V)

EUT – Antenna distance: 10 m

# Test configuration and test method

Test site:

Semi-anechoic chamber

Auxiliary equipment:

See clause 4 of this test report

## Test equipment used

CMC \$108, CMC \$127, CMC \$164, CMC \$271,

**CMC S287** 

Measurement uncertainty: See clause 7 of this test report

ISM equipment may be operated on any frequency above 9 kHz except as indicated in Part 18.303. The following frequency bands, in accordance with Part 2.106 of the rules, are allocated for use by ISM equipment:

| ISM frequency | Tolerance  |
|---------------|------------|
| 6,78 MHz      | ±15,0 kHz  |
| 13,56 MHz     | ±7,0 kHz   |
| 27,12 MHz     | ±163,0 kHz |
| 40,68 MHz     | ±20,0 kHz  |
| 915 MHz       | ±13,0 MHz  |
| 2,450 MHz     | ±50,0 MHz  |
| 5,800 MHz     | ±75,0 MHz  |
| 24,125 MHz    | ±125,0 MHz |
| 61,25 GHz     | ±250,0 MHz |
| 122,50 GHz    | ±500,0 MHz |
| 245,00 GHz    | ±1,0 GHz   |

Operation of ISM equipment within the following safety, search and rescue frequency bands is prohibited: 490-510 kHz, 2170-2194 kHz, 8354-8374 kHz, 121,4-121,6 MHz, 156,7-156,9 MHz and 242,8-243,2 MHz

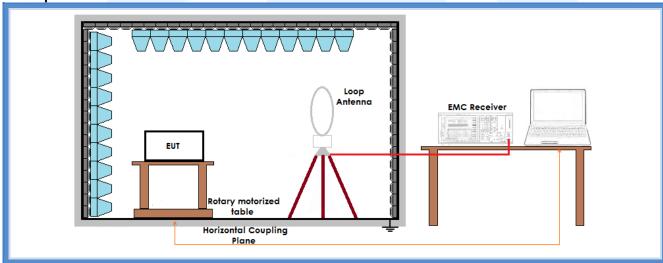
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## **Acceptance limits**

- a) ISM equipment operating on a frequency specified in Part 18.301 is permitted unlimited radiated energy in the band specified for that frequency
- b) The field strength levels of emissions which lie outside the bands specified in Part 18.301, unless otherwise indicated, shall not exceed the following:

| Field strength limits for induction cooking ranges |                   |  |  |  |
|--|-------------------|--|--|--|
| Operating frequency                                | Limits [dB(μV/m)] |  |  |  |
| Below 90 kHz                                       | 83,52             |  |  |  |
| On or above 90 kHz                                 | 69,54             |  |  |  |

# Setup



#### Result

| IC 3011      |                          |           |                                     |          |
|--------------|--------------------------|-----------|-------------------------------------|----------|
| Polarization | Frequency Range<br>(MHz) | Graphs    | Remarks                             | Result   |
| Loop         | 0,009 – 30               | G16150217 | Power level 9,<br>bottom left plate | Complies |
| Loop         | 0,009 – 30               | G16150218 | Power level 9, bottom right plate   | Complies |
| Loop         | 0,009 – 30               | G16150219 | Power level 9, top right plate      | Complies |
| Loop         | 0,009 – 30               | G16150220 | Power level 9, top<br>left plate    | Complies |
| Remarks:     | _                        |           |                                     |          |

#### Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a + AV: Average; AV [1s] (average at 1 second) values are marked with a x

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# Graphs

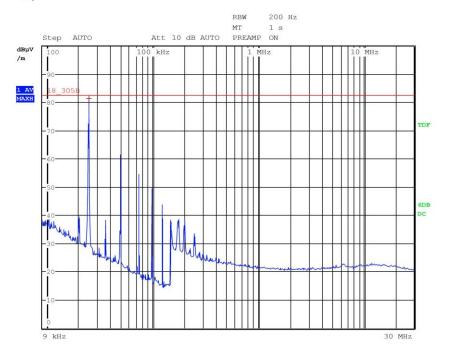
Meas Type Emission

**Equipment under Test** 

Manufacturer

OP Condition Bottom left zone - power 9
Operator Gandini 16150217

Test Spec Loop



## **Final Measurement**

Meas Time: 1 s Margin: 20 dB Subranges: 1

| Trace | Frequency    | 8   | Level (dBµV | /m) Detector | Delta Limit/dB |
|-------|--------------|-----|-------------|--------------|----------------|
| 1     | 24.680000000 | kHz | 81.51       | Average      | -1.10          |

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Meas Type Emission

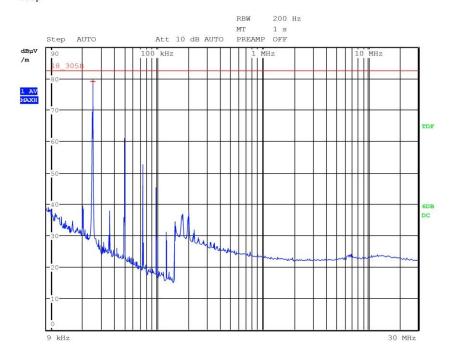
**Equipment under Test** 

Manufacturer

OP Condition Bottom right zone - power 9

Operator Gandini 16150218

Test Spec Loop



#### **Final Measurement**

Meas Time: 1 s Margin: 20 dB Subranges: 1

| Trace | Frequency    | B.  | Level (dBµV/ | m) Detector | Delta Limit/dB |
|-------|--------------|-----|--------------|-------------|----------------|
| 1     | 24.680000000 | kHz | 79.11        | Average     | -3.50          |

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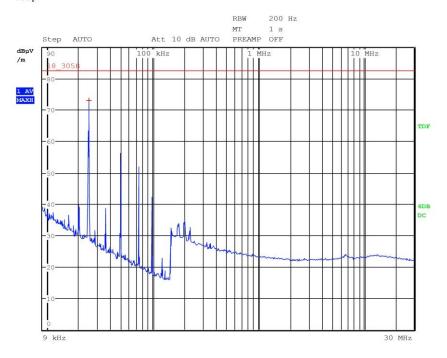
Meas Type Emission

**Equipment under Test** 

Manufacturer

OP Condition Top right zone - power 9
Operator Gandini 16150219

Test Spec Loop



#### **Final Measurement**

Meas Time:1 sMargin:20 dBSubranges:1

| Trace | Frequency    | B.  | Level (dBµV/ | m) Detector | Delta Limit/dB |
|-------|--------------|-----|--------------|-------------|----------------|
| 1     | 24.680000000 | kHz | 72.98        | Average     | -9.63          |



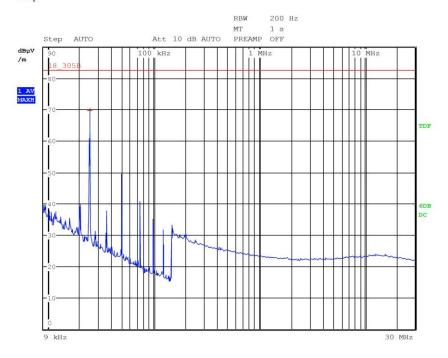
Meas Type Emission

**Equipment under Test** 

Manufacturer

OP Condition Top left zone - power 9
Operator Gandini 16150220

Test Spec Loop



## **Final Measurement**

Meas Time: 1 s Margin: 20 dB Subranges: 1

| Trace | Frequency        | Level (dBµV/m) Detector | Delta Limit/dB |  |
|-------|------------------|-------------------------|----------------|--|
| 1     | 24.680000000 kHz | 69.76 Average           | -12.85         |  |

**Result:** The requirements are met

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# ANNEX 1 of document nr. R16150201

| Com | ponents                   |                            |              |                                     |                       |
|-----|---------------------------|----------------------------|--------------|-------------------------------------|-----------------------|
|     | Name                      | Manufacturer/<br>trademark | Type / model | Technical data and securement means | Mark(s) of conformity |
|     | Cooling fan               | FIME (ELICA)               | C20R60XXUL   | 240V, 60Hz, 0.16A, T110,<br>class H | cURus                 |
|     | Cooling fan<br>thermostat | CAMPINI                    | TY60         | 250V, 16 A, T200                    | cURus                 |
|     | Induction module          | EGO                        | 75.08018.505 | T85, 240 VAC, 32 A                  | URus                  |
|     | Induction selector        | EGO                        | 44.02020.XXX | T85, 4 provided                     | URus                  |
|     | Coil Ø145mm (not shown)   | EGO                        | 75.95060.501 | 1500W, 240V                         | URus                  |
|     | Coil Ø180mm (not shown)   | EGO                        | 75.95061.501 | 2300W, 240V, 2 provided             | URus                  |
|     | Coil Ø210mm (not shown)   | EGO                        | 75.95062.502 | 3700W, 240V                         | URus                  |
|     |                           |                            |              |                                     |                       |