



TEST REPORT nr. R10107501_rev30

Federal Communication Commission (FCC)

This test report cancel and replace document nr. R10107501_rev20 date 16.11.10

Test item

Description..... : RFID
Trademark..... : DATALOGIC AUTOMATION
Model/Type..... : C827 HF CNTL INT.ANT RS232/RS485
C827-06 HF CNTL 30X40MM ANT RS232/RS485
C827-03 HF CNTL 18MM TUB.ANT RS232/RS485

Test Specification

Standard..... : FCC Rules & Regulations, Title 47 (2009)
Part 15 paragraph(s) : 203, 204, 207, 209 and 225

Client's name..... : Datalogic Automation s.r.l.
Address..... : Via Lavino, 265 - 40050 Monte San Pietro (BO) - Italy

Manufacturer's name : Same as client
Address..... : --

Report

Tested by..... : G. Gandini - *Technician*

Approved by..... : R. Beghetto - *Laboratory Manager*

Date of issue..... : 19.11.10

Contents..... : 39 pages

This test report shall not be reproduced except in full without the written approval of CMC.
The test results presented in this report relate only to the item tested.



Index

1. SUMMARY.....	3
2. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
2.1 TEST SITE	4
3. TESTING AND SAMPLING	5
4. OPERATIVE CONDITIONS	5
5. PHOTOGRAPH(S) OF EUT.....	6
6. EQUIPMENT LIST.....	10
7. MEASUREMENT UNCERTAINTY	11
8. REFERENCE DOCUMENTS.....	12
9. DEVIATION FROM TEST SPECIFICATION.....	13
10. TEST CASE VERDICTS.....	13
11. RESULTS.....	13
11.1 ANTENNA REQUIREMENTS.....	14
11.2 EMISSION OF MAINS TERMINAL DISTURBANCE VOLTAGE (CONTINUOUS DISTURBANCE)	16
11.3 RADIATED EMISSION	18
11.4 FIELD STRENGTH WITHIN THE ASSIGNED BAND	20
11.5 FREQUENCY TOLERANCE	22
12. GRAPHS AND TABLES.....	23



1. Summary			
Emission: FCC Rules & Regulations, Title 47 (2009)			
Test specifications	Environmental Phenomena	Tests sequence	Result
Part 15.203 and 15.204	Antenna Requirement	5	Complies
Part 15.207	Conducted Emission	1	Complies
Part 15.209	Radiated Emission	2	Complies
Part 15.225	Field strength within the assigned band	3	Complies
Part 15.225 (e)	Frequency tolerance	4	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.



2. Description of Equipment under test (EUT)

Power supply: 10-30 Vdc

Type of equipment.....: ☒ Transmitter Unit ☐ Receiver Unit
☒ Fixed station ☐ Portable station ☐ Mobile station

Receiver class: --

Working Frequency: 13,56 MHz

Number of channels: --

Channel separation: --

Modulation: --

Extreme conditions: --

Maximum transmitter output power: --

Information on antenna.....: For model C827 HF CNTL INT.ANT RS232/RS485:
Internal antenna: Gain = -43,3dBi

For model C827-06 HF CNTL 30X40MM ANT
RS232/RS485:
External antenna cod. GEL-3385: Gain = -44,8dBi

For model C827-03 HF CNTL 18MM TUB.ANT
RS232/RS485:
External antenna cod. GEL-3384: Gain = -47,6 dBi

Duty cycle.....: --

Filtering and construction devices: Add ferrite Wurth Elektronik 7427144 on DC power
cable (3 turns) on model C827-06 HF CNTL
30X40MM ANT and C827-03 HF CNTL 18MM
TUB.ANT RS232/RS485

2.1 Test Site

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

Address.....: Via dell'Elettronica, 12/C – 36016 Thiene (VI) – ITALY



3. Testing and sampling

Date of receipt of test item: 30.07.10

Testing start date: 30.07.10

Testing end date.....: 07.09.10

Samples tested nr.....: 1 for each models.

Complete tests was executed on For model C827 HF
CNTL INT.ANT RS232/RS485. Partial test in other
model.

The only difference between the three models is the type
of the antenna.

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 P100712

4. Operative conditions

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5. Photograph(s) of EUT

C827 HF CNTL INT.ANT RS232/RS485





C827-06 HF CNTL 30X40MM ANT RS232/RS485





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36016 Thiene (VI)

C827-03 HF CNTL 18MM TUB.ANT RS232/RS485





C827-06 HF CNTL 30X40MM ANT RS232/RS485 and
C827-03 HF CNTL 18MM TUB.ANT RS232/RS485
with ferrite Wurth Elektronik mod. 7427144





6. Equipment list

<i>Id. number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>	<i>Serial number</i>	<i>Last calibration</i>	<i>Due date calibration</i>
CMC S001	Rohde & Schwarz	ESHS30	EMC interference receiver	862024/003	January '10	January '11
CMC S127	SCHAFFNER	HLA6120	Loop Antenna	1191	January '10	January '13
CMC S136	Schwarzbeck	VULB 9163	Broadband Antenna	9136-205	May '10	May '13
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '10	January '11
CMC B069	Angelantoni	CH 600C	Climatic chamber	41973	June '10	June '11



7. Measurement uncertainty

Test	Expanded Uncertainty	note
Conducted Emission		
(50Ω/50μH AMN) - (9 kHz – 150 kHz)	±3.8 dB	1
(50Ω/50μH AMN) - (150 kHz – 30 MHz)	±3.4 dB	1
(Voltage probe) - (150 kHz – 30 MHz)	±3.0 dB	1
(50Ω/5μH AMN) - (150 kHz – 108 MHz)	±3.2 dB	1
Discontinuous Conducted Emission		
Conducted Emission (50Ω/50μH AMN) - (9 kHz – 150 kHz)	±3.8 dB	1
Conducted Emission (50Ω/50μH AMN) - (150 kHz – 30 MHz)	±3.4 dB	1
Disturbance Power (30 MHz – 300 MHz)		
	±3.2 dB	1
Radiated Emission		
(0,150 MHz – 30 MHz)	±4.5 dB	1
(30 MHz – 1000 MHz)	±4.8 dB	1
(1 GHz – 6 GHz)	±4.4 dB	1
Electromagnetic field EMF		
	±18.8 dB	1
Harmonic current emissions test		
	±2.4 %	1
Voltage fluctuation and flicker test		
	±6.0 %	1
Insertion loss test		
	±2.6 %	1
Radiated electromagnetic disturbance test (loop antenna)		
	±2.5 %	1
Radiated electromagnetic field immunity test		
	0.9 V/m at 3V/m	1
Pulse modulated radiated electromagnetic field immunity test		
	0.9 V/m at 3V/m	1
Injected currents immunity test		
	0.6 V at 3V	1
Bulk current		
	9 mA at 60 mA	1
Power frequency magnetic field immunity test		
	0.3 A/m at 3 A/m	1
Electrostatic discharge immunity test		
		2
Electrical fast transients / burst immunity test		
		2
Surge immunity test		
		2
Short interruption immunity test		
		2
Voltage transient emission test		
	±5 %	1
Transient immunity test		
		2

Notes

Note 1:

The expanded uncertainty reported according to EN55016-4-2(2004-10) 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 $k = 2$.



8. eference documents

Reference no.	Description
FCC Rules and Regulation Title 47 part 15	--
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 9kHz – 40GHz
Internal Procedure PM001 rev. 2.0 (Quality Manual)	Measure Procedure
Internal procedure INC_M rev. 8.0 (Quality Manual)	Measurement uncertainty calculation



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 6dB 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 / N.A.

Test item does meet the requirement: P / Pass / Complies

Test item does not meet the requirement: F / Fail / Does not comply

Test not performed: NE / Not Executed

11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC_M rev. 8.0.



11.1 Antenna Requirements

Test configuration and test method

Test site

Laboratory

Auxiliary equipment

See clause 4 of this test report

Environmental conditions

Temperature	22	°C	Atmospheric pressure	100	kPa	Relative humidity	49	%
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Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.203 and 15.204
- RSS-210
- Internal Procedure PM001
- See clause 4 of this test report

Test Requirements

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that uses unique coupling to the intentional radiator shall be considered sufficient comply with the provisions of this section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Test specification

Port: Antenna.

EUT exercising

See clause 4 of this test report



Result

Model: C827 HF CNTL INT.ANT RS232/RS485

<i>Antenna Type</i>	<i>Gain</i>	<i>Remarks</i>	<i>Results</i>
Embedded	-43,3 dBi	--	Complies

Model: C827-06 HF CNTL 30X40MM ANT RS232/RS485

<i>Antenna Type</i>	<i>Gain</i>	<i>Remarks</i>	<i>Results</i>
External	-44,8 dBi	--	Complies

Model: C827-03 HF CNTL 18MM TUB.ANT RS232/RS485

<i>Antenna Type</i>	<i>Gain</i>	<i>Remarks</i>	<i>Results</i>
External	-47,6 dBi	--	Complies

Remarks

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Reference documents

See clause 8 of this test report

Result

The requirements are met



11.2 Emission of mains terminal disturbance voltage (continuous disturbance)

Test configuration and test method

Test site

Shielded chamber

Auxiliary equipment

See clause 4 of this test report

Environmental conditions

Temperature 21 °C Atmospheric pressure 99 kPa Relative humidity 48 %

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.207
- Internal Procedure PM001
- See clause 4 of this test report

Test specification

Port: AC mains

EUT exercising

See clause 4 of this test report

Acceptance limits

Limits		
Frequency range (MHz)	<i>dB(μV) Quasi-peak</i>	<i>dB(μV) Average</i>
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Result

Model: C827 HF CNTL INT.ANT RS232/RS485

Line	Frequency Range (MHz)	Graphs	Remarks	Result
L1	0,15 – 30	G10107530	Test executed with typical AC/DC converter XP mod. THF120LS24 (230Vac / 24Vdc)	Complies
N	0,15 – 30	G10107531	Test executed with typical AC/DC converter XP mod. THF120LS24 (230Vac / 24Vdc)	Complies
L1	13,11 – 14,01	G10107532	Test executed with typical AC/DC converter XP mod. THF120LS24 (230Vac / 24Vdc) Test executed with load 50Ω in replacement of the internal antenna	Complies
N	13,11 – 14,01	G10107533	Test executed with typical AC/DC converter XP mod. THF120LS24 (230Vac / 24Vdc) Test executed with load 50Ω in replacement of the internal antenna	Complies

Graphs Legend

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



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Remarks //////////////

Reference documents

See clause 8 of this test report

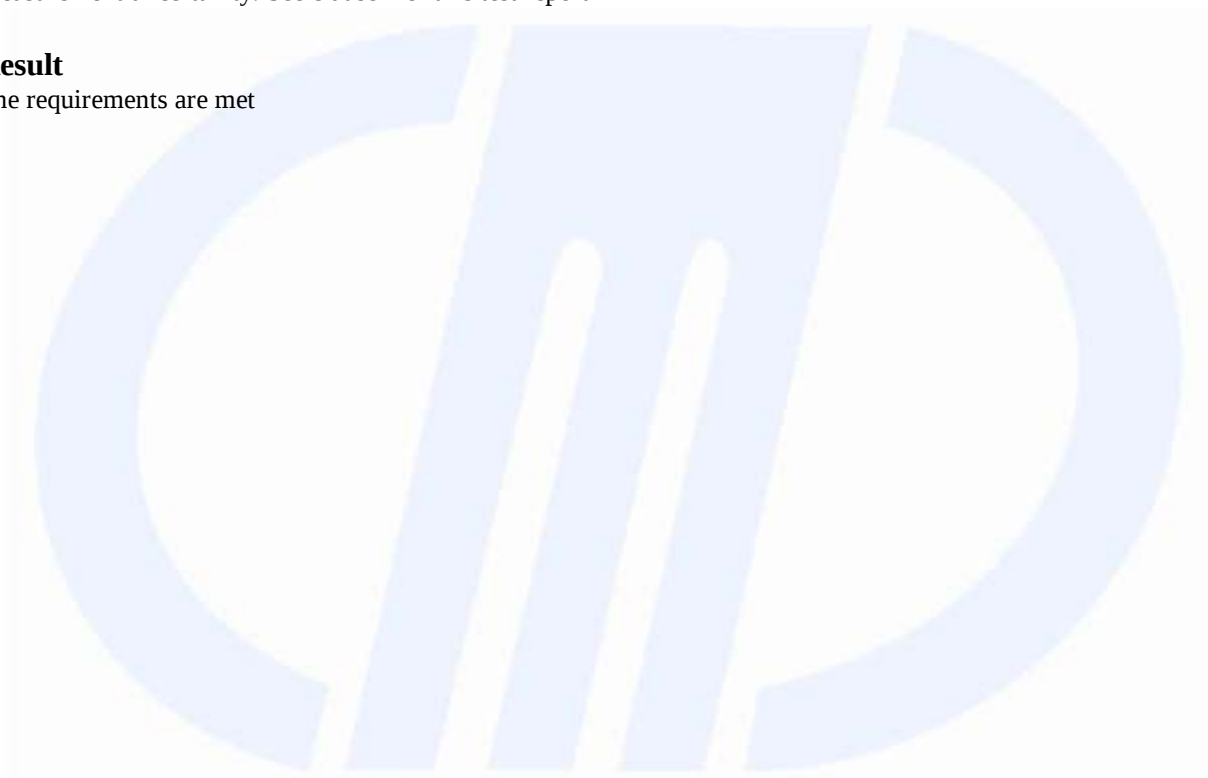
Test equipment used (Id number – see clause 6 of this test report)

CMC S001

Measurement uncertainty: See clause 7 of this test report

Result

The requirements are met





11.3 Radiated Emission

Test configuration and test method

Test site Semi-Anechoic Chamber
Auxiliary equipment See clause 4 of this test report

Environmental conditions

Temperature 22 °C Atmospheric pressure 98 kPa Relative humidity 48 %

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209
- Internal Procedure PM001
- See clause 4 of this test report

Test specification

Port: Enclosure - Antenna distance: 3m – Frequency range: 30-1000 MHz

EUT exercising

See clause 4 of this test report

Acceptance limits

Limits	
Frequency range (MHz)	$\text{dB}(\mu\text{V/m})$ Quasi-peak
0,009 to 0,490	128,51 to 93,79
0,490 to 1,705	73,79 to 62,96
1,705 to 30	69,5
30 to 88	40
88 to 216	43,5
216 to 960	46
Above 960	54



Result

Model: C827 HF CNTL INT.ANT RS232/RS485

<i>Polarization</i>	<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Remarks</i>	<i>Result</i>
Vertical	30 to 1000	G10107501	--	Complies
Horizontal	30 to 1000	G10107502	--	Complies
Loop	0,009 to 30	G10107506	--	Complies

Model: C827-06 HF CNTL 30X40MM ANT RS232/RS485

<i>Polarization</i>	<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Remarks</i>	<i>Result</i>
Loop	0,009 to 30	G10107507	--	Complies
Vertical	30 to 1000	G10107520	--	Complies
Horizontal	30 to 1000	G10107521	--	Complies

Model: C827-03 HF CNTL 18MM TUB.ANT RS232/RS485

<i>Polarization</i>	<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Remarks</i>	<i>Result</i>
Vertical	30 to 1000	G10107514	--	Complies
Horizontal	30 to 1000	G10107515	--	Complies
Loop	0,009 to 30	G10107516	--	Complies

Graphs Legend

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

Remarks

EUT was tested in 3 orthogonal planes. In results table are reported the worst case.

Reference documents

See clause 8 of this test report

Test equipment used (Id number – see clause 6 of this test report)

CMC S127, CMC S136, CMC S164

Measurement uncertainty: See clause 7 of this test report

Result

The requirements are met



11.4 Field strength within the assigned band

Test configuration and test method

Test site	Semi-anechoic chamber
Auxiliary equipment	See clause 4 of this test report

Environmental conditions

Temperature	22 °C	Atmospheric pressure	98 kPa	Relative humidity	48 %
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Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.225
- Internal Procedure PM001
- See clause 4 of this test report

Test specification

Test distance: 3m – Frequency Range: 13,553 to 13,567MHz – if bandwidth: 1kHz

EUT exercising

See clause 4 of this test report

Acceptance limits

Limits (with antenna distance 3m)	
Frequency range (MHz)	dB(μV/m) Quasi-peak
13,553 to 13,567	124
13,410 to 13,553 and 13,567 to 13,710	90,5
13,110 to 13,410 and 13,710 to 14,010	80,5

Result

Model: C827-03 HF CNTL 18MM TUB.ANT RS232/RS485

Frequency Range (MHz)	Graphs	Transmitter field strength		Result
		Frequency (MHz)	Level (dBμV/m)	
13,553 to 13,567	G10107517	13,5599	57,13	Complies



Model: C827 HF CNTL INT.ANT RS232/RS485

<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Remarks</i>	<i>Result</i>
13 to 14,1	G10107510	--	Complies

Model: C827-06 HF CNTL 30X40MM ANT RS232/RS485

<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Remarks</i>	<i>Result</i>
13 to 14,1	G10107509	--	Complies

Model: C827-03 HF CNTL 18MM TUB.ANT RS232/RS485

<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Remarks</i>	<i>Result</i>
13 to 14,1	G10107518	--	Complies

Remarks

EUT was tested in 3 orthogonal planes. In results table are reported the worst case.

Reference documents See clause 8 of this test report

Test equipment used (Id number – see clause 6 of this test report)

CMC S127, CMC S164

Result The requirements are met



11.5 Frequency tolerance

Test configuration and test method

Test site

Climatic chamber

Auxiliary equipment

See clause 4 of this test report

Environmental conditions

Temperature 22 °C Atmospheric pressure 99 kPa Relative humidity 48 %

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.225 (e)
- Internal Procedure PM001
- See clause 4 of this test report

Test specification

Frequency range: 13,553 to 13,567MHz

EUT exercising

See clause 4 of this test report

Acceptance limits

Limits for radiated disturbances $\pm 0,01\%$

Result

Model: C827-03 HF CNTL 18MM TUB.ANT RS232/RS485

Test conditions		Measured frequency (MHz)	Frequency drift (kHz)
Power supply (V)	Temperature		
24 (Un)	20°C	13,55997	--
24 (Un)	-20°C	13,56017	+0,200
24 (Un)	-10°C	13,56018	+0,210
24 (Un)	0°C	13,56010	+0,130
24 (Un)	10°C	13,56008	+0,110
24 (Un)	30°C	13,55995	-0,020
24 (Un)	40°C	13,55994	-0,030
24 (Un)	50°C	13,55993	-0,040
8,5 (10V x 0,85)	20°C	13,55997	+0,270
34,5 (30V x 1,15)	20°C	13,55997	+0,270

Remarks //

Reference documents See clause 8 of this test report

Test equipment used (Id number – see clause 6 of this test report)

CMC B069, CMC S164

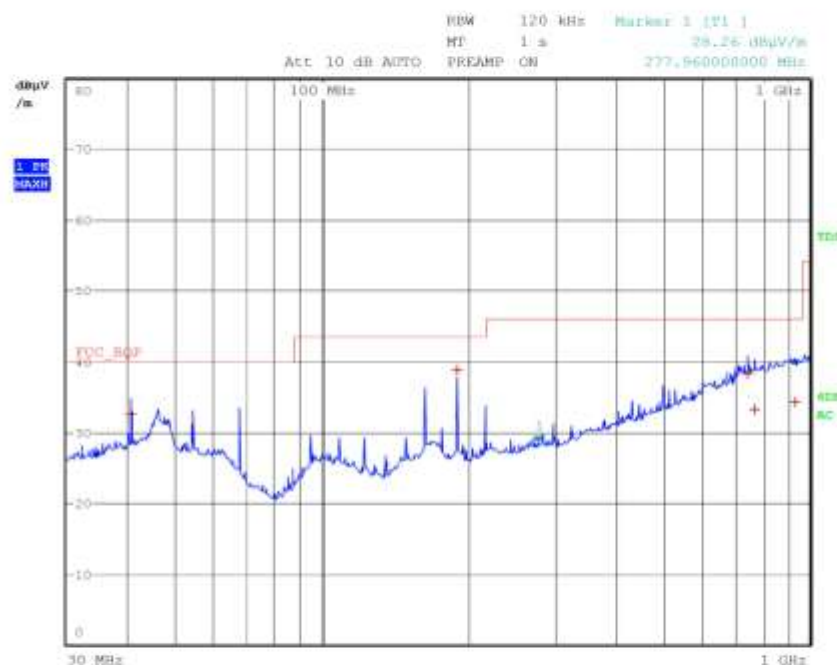
Result The requirements are met



12. Graphs and Tables

G10107501

Meas Type Emission 30-1000MHz
Equipment under Test C827 HF CNTL INT.ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107501
Test Spec
Vert



Final Measurement

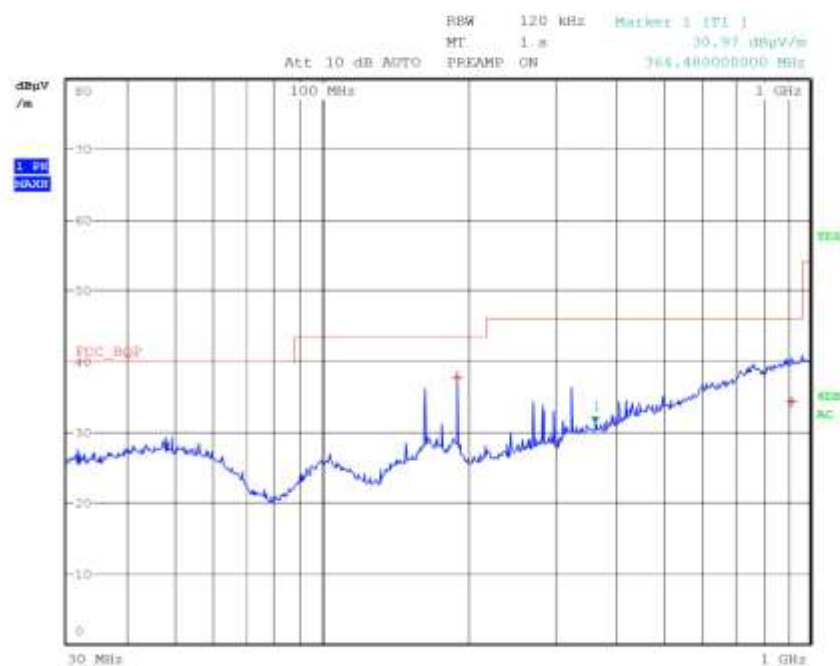
Meas Time: 1 s
Margin: 6 dB
Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	40.680000000 MHz	32.53	Quasi Peak	-7.47
1	189.840000000 MHz	38.81	Quasi Peak	-4.71
1	745.800000000 MHz	38.25	Quasi Peak	-7.77
1	773.880000000 MHz	33.13	Quasi Peak	-12.89
1	936.600000000 MHz	34.25	Quasi Peak	-11.77



G10107502

Meas Type Emission 30-1000MHz
Equipment under Test C827 HF CNTL INT.ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107502
Test Spec
Horiz



Final Measurement

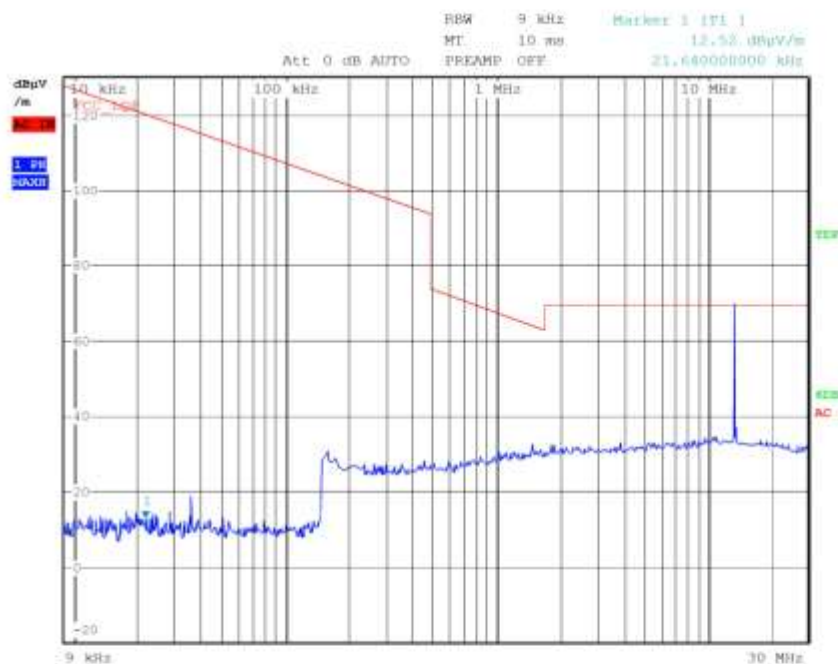
Meas Time: 1 s
Margin: 6 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	189.840000000 MHz	37.59	Quasi Peak	-5.93
1	917.720000000 MHz	34.14	Quasi Peak	-11.88



G10107506

Meas Type Emission 0.009-30MHz
Equipment under Test C827 HF CNTL INT. ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107506
Test Spec
Loop



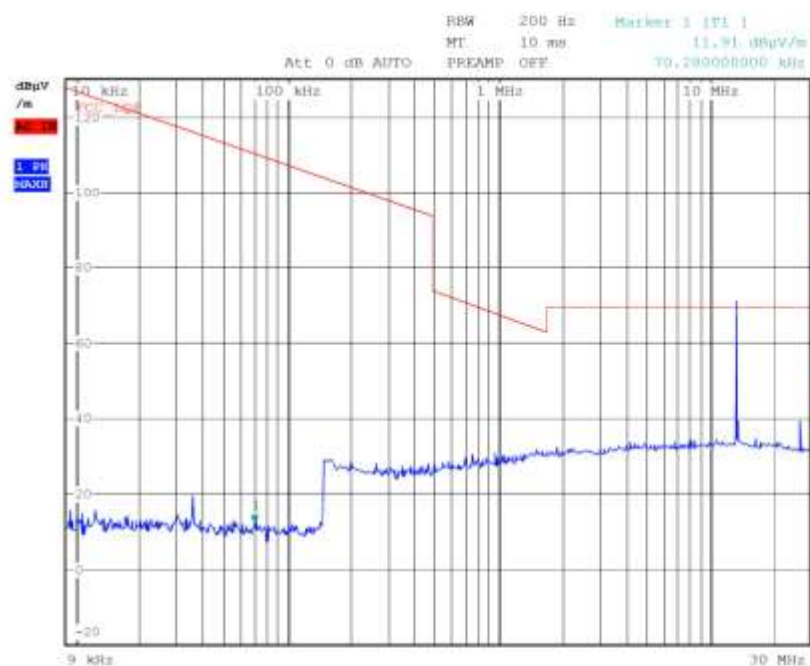
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 0



G10107507

Meas Type Emission 0.009-30MHz
Equipment under Test C827-06 HF CNTL 30x40mm ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107507
Test Spec
Loop



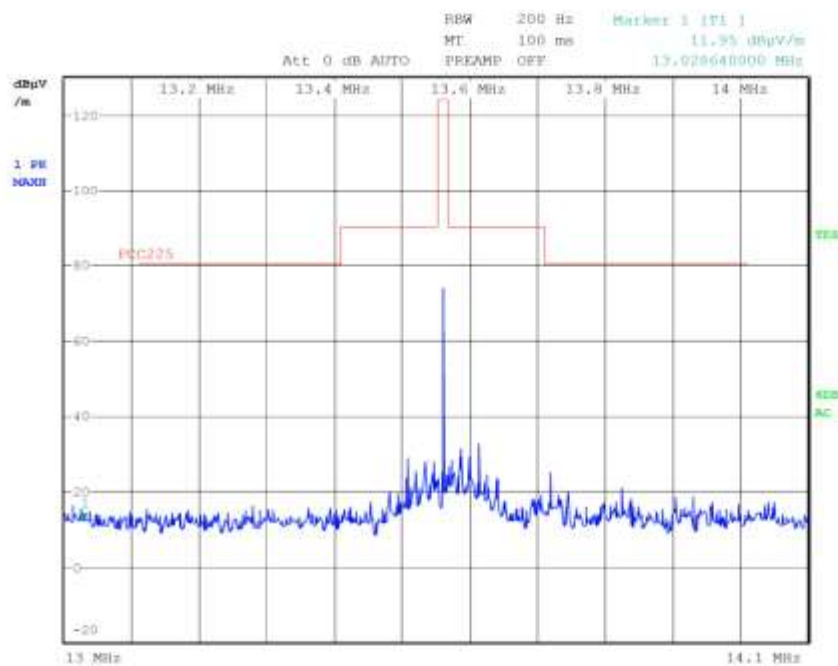
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 0



G10107509

Meas Type Emission 13-14.1MHz
Equipment under Test C827-06 HF CNTL 30x40mm ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107509
Test Spec
Loop



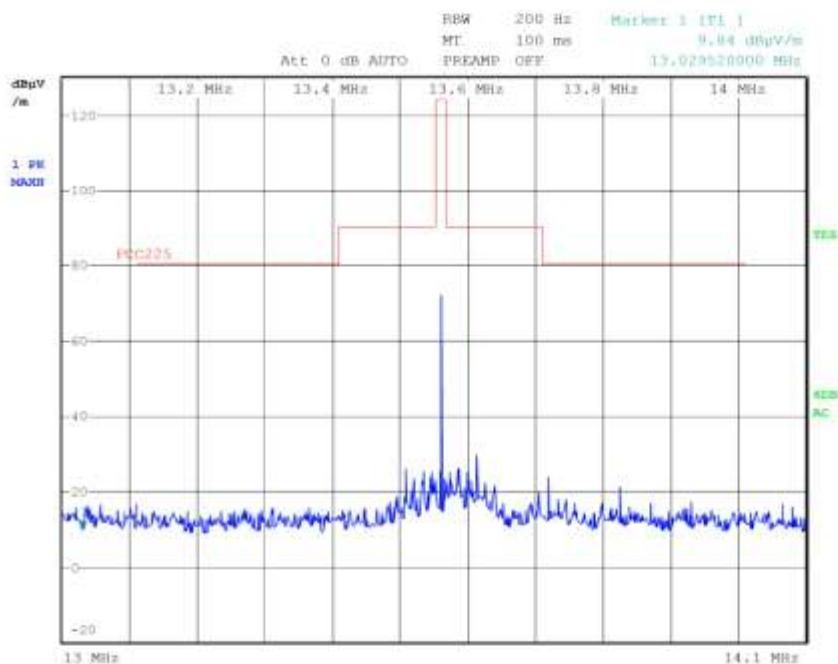
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Peaks: 0



G10107510

Meas Type Emission 13-14.1MHz
Equipment under Test C827 HF CNTL INT. ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107510
Test Spec
Loop



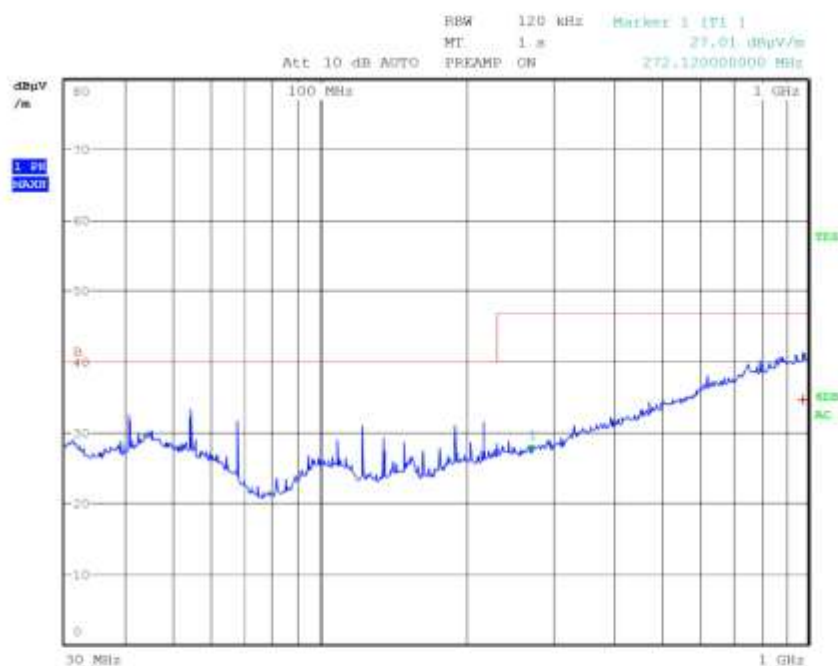
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Peaks: 0



G10107514

Meas Type Emission 30-1000MHz
Equipment under Test C827-03 HF CNTL 18mm TUB ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107514
Test Spec
Vert



Final Measurement

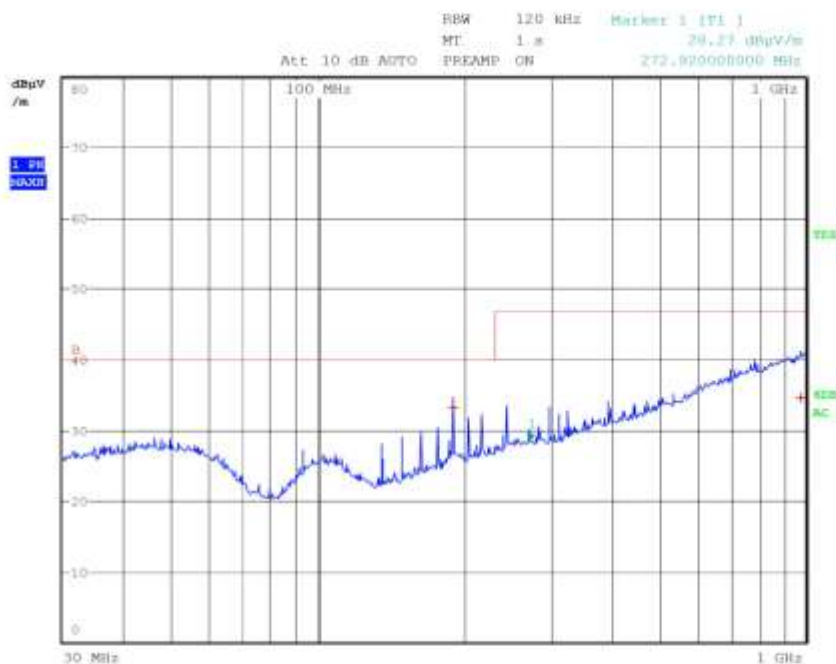
Meas Time: 1 s
Margin: 6 dB
Subranges: 1

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	977.760000000 MHz	34.60	Quasi Peak	-12.40



G10107515

Meas Type Emission 30-1000MHz
Equipment under Test C827-03 HF CNTL 18mm TUB ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107515
Test Spec
Horiz



Final Measurement

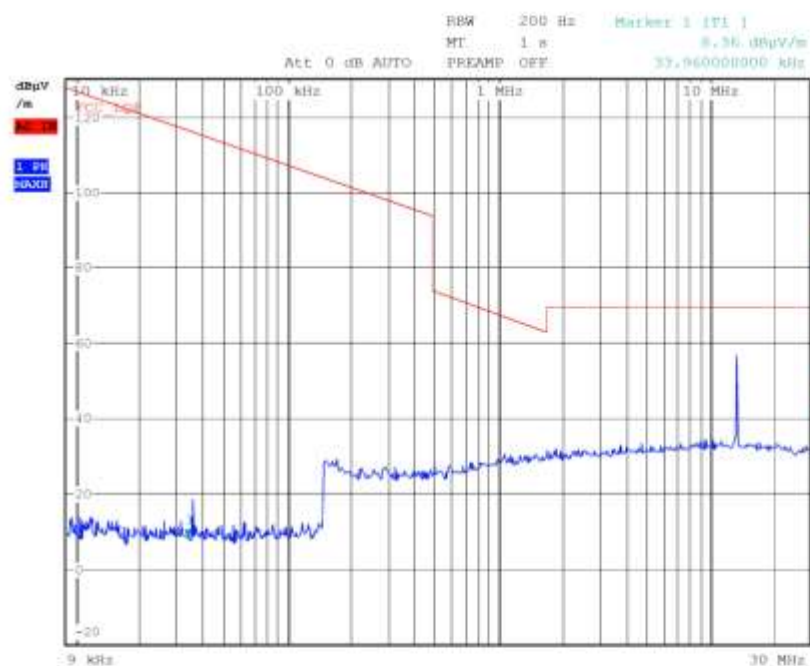
Meas Time: 1 s
Margin: 6 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	189.840000000 MHz	33.19	Quasi Peak	-6.81
1	977.720000000 MHz	34.62	Quasi Peak	-12.38



G10107516

Meas Type Emission 0.009-30MHz
Equipment under Test C827-03 HF CNTL 18mm TUB ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107516
Test Spec
Loop



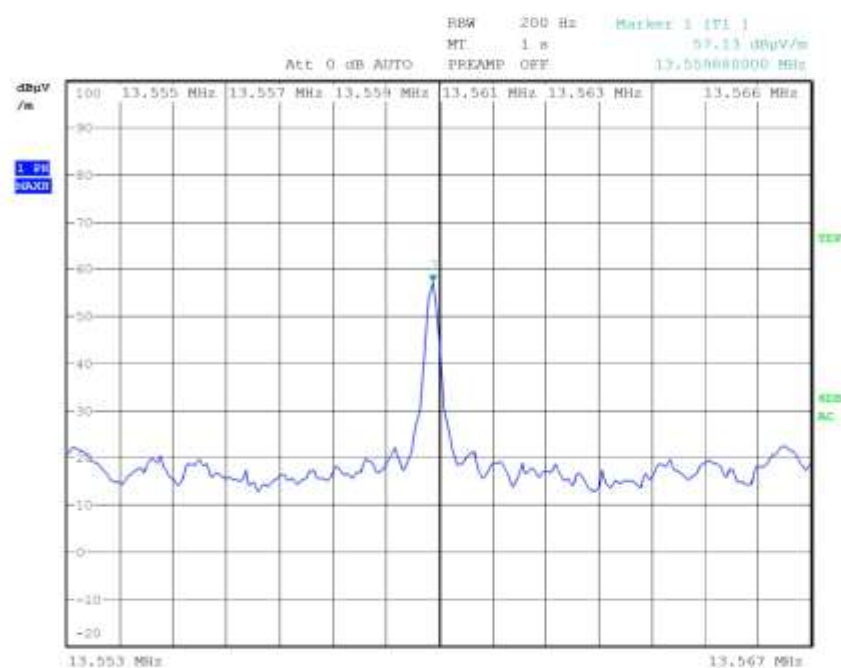
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 0



G10107517

Meas Type Emission
Equipment under Test C827-03 HF CNTL 18mm TUB ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107517
Test Spec
Loop



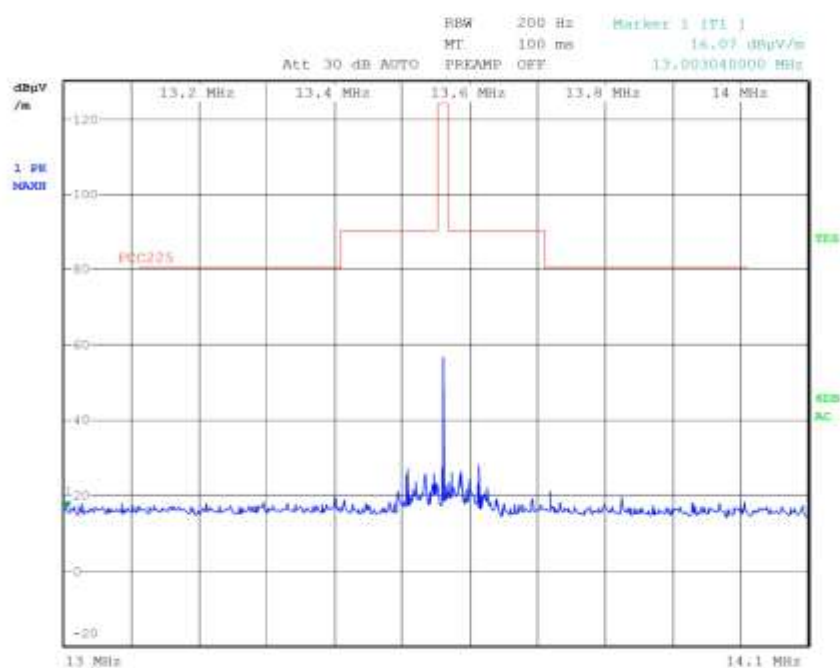
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 0



G10107518

Meas Type Emission 13-14.1MHz
Equipment under Test C827-03 HF CNTL 18mm TUB ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107518
Test Spec
Loop



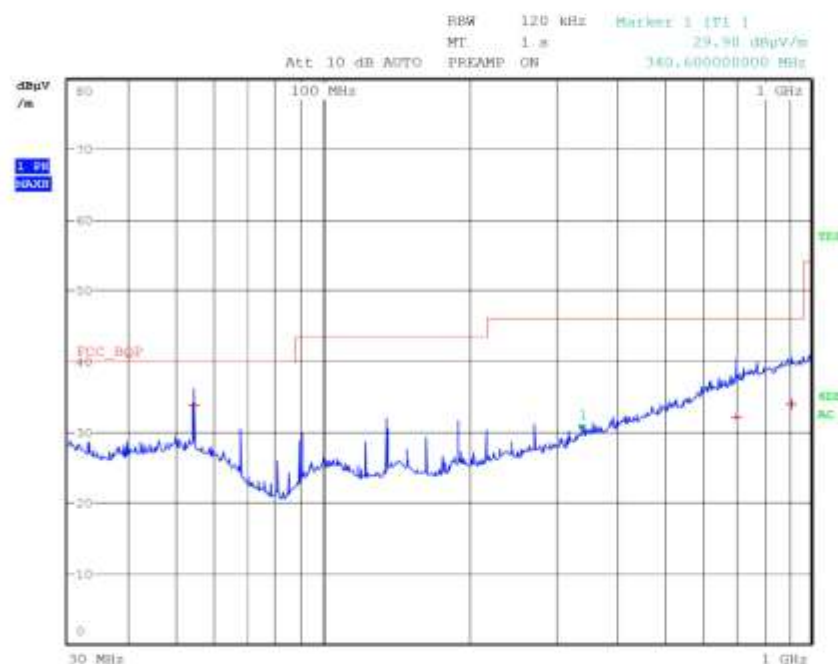
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Peaks: 0



G10107520

Meas Type Emission 30-1000MHz
Equipment under Test C827-06 HF CNTL 30x40mm ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107520
Test Spec
Vert



Final Measurement

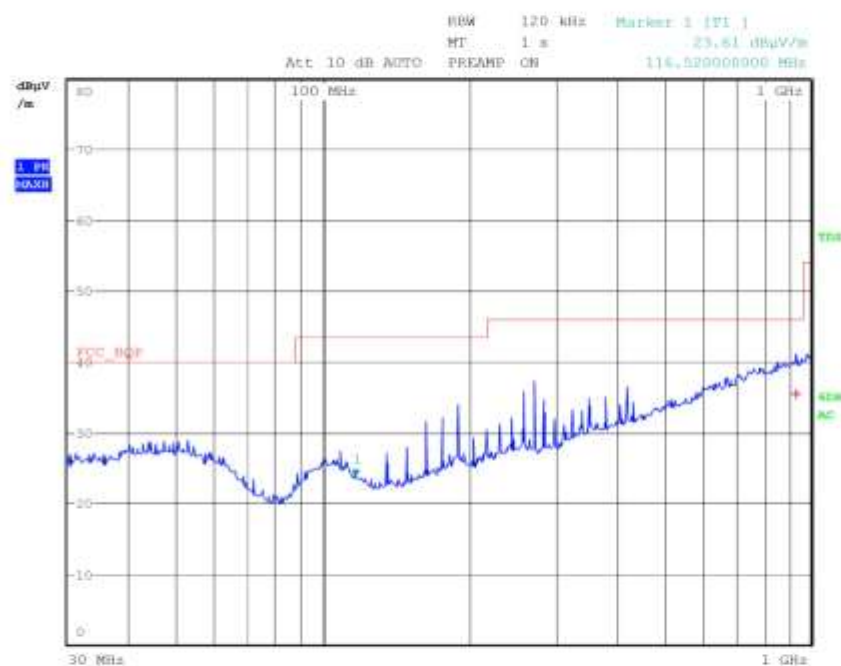
Meas Time: 1 s
Margin: 6 dB
Subranges: 3

Trace	Frequency	Level (dBuV/m)	Detector	Delta Limit/dB
1	54.238397436 MHz	33.74	Quasi Peak	-6.26
1	705.120000000 MHz	31.99	Quasi Peak	-14.03
1	912.480000000 MHz	33.94	Quasi Peak	-12.08



G10107521

Meas Type Emission 30-1000MHz
Equipment under Test C827-06 HF CNTL 30x40mm ANT
Manufacturer
OP Condition In trasmissione
Operator Gandini 10107521
Test Spec
Horiz



Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 1

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	935.600000000 MHz	35.41	Quasi Peak	-10.61

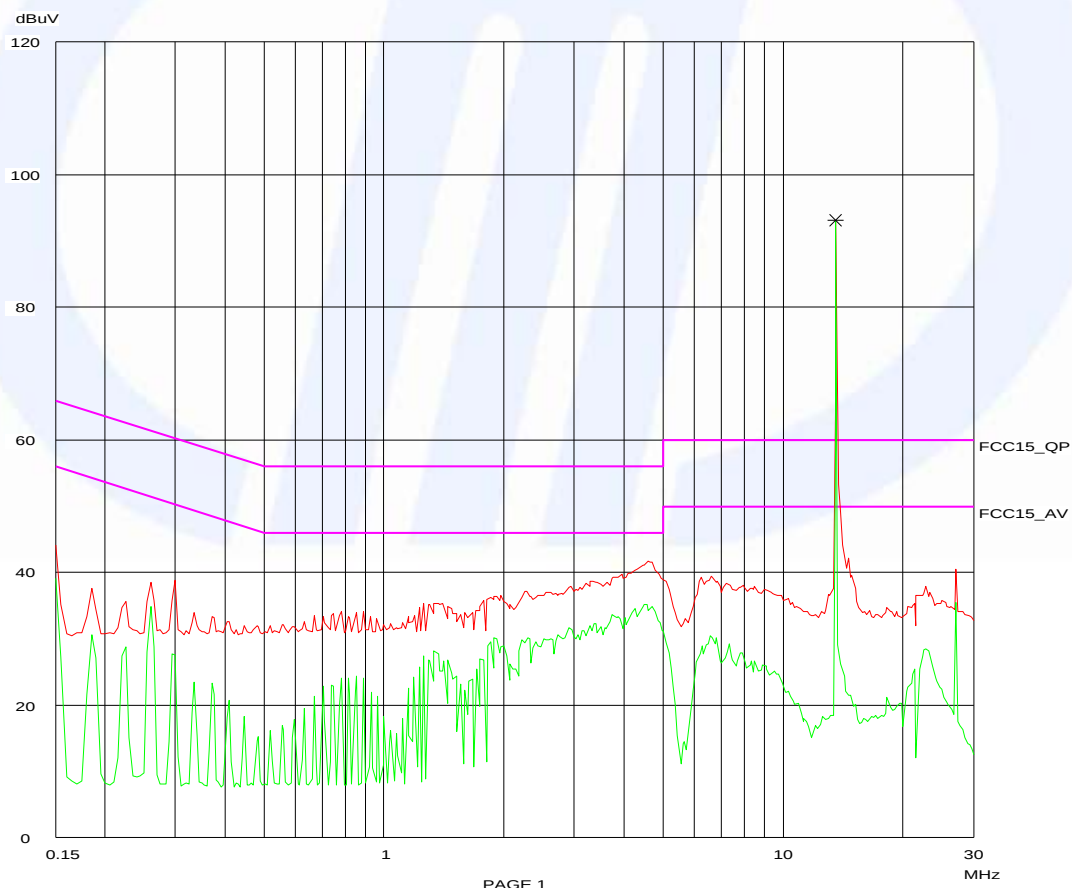


G10107530

CMC Centro misure compatibilita srl

Emission 0.15-30MHz

EUT: C827 HF CNTL INT.ANT
Op Cond: In TX
Operator: Gandini 10107530
Test Spec: Line L
Comment: Typical power supplay



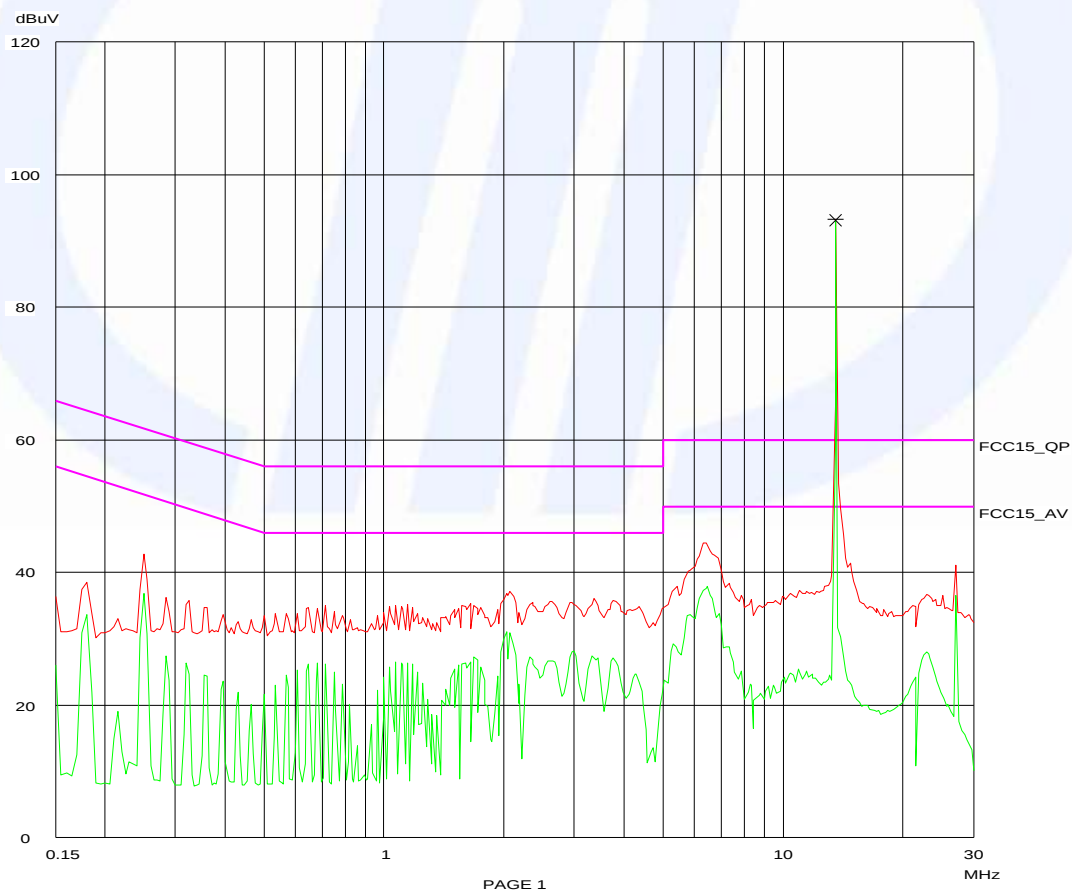


G10107531

CMC Centro misure compatibilita srl

Emission 0.15-30MHz

EUT: C827 HF CNTL INT.ANT
Op Cond: In TX
Operator: Gandini 10107531
Test Spec: Line N
Comment: Typical power supply



PAGE 1

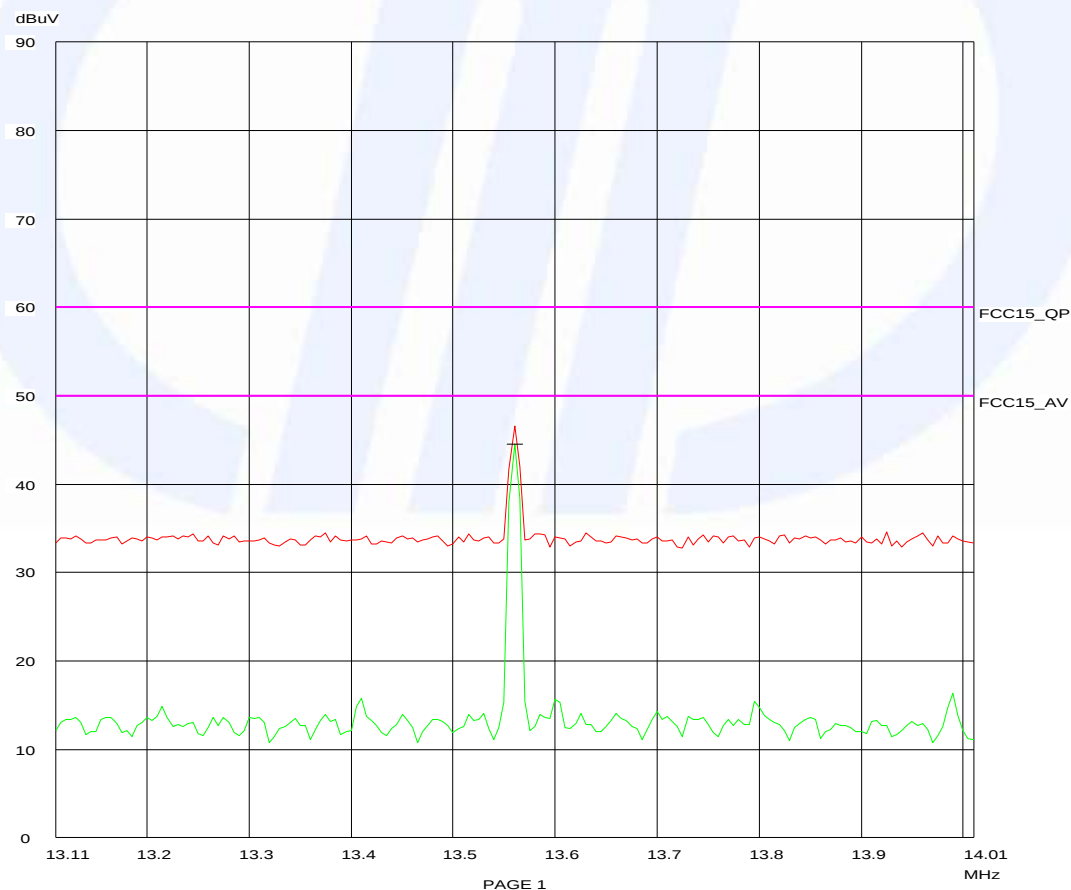


G10107532

CMC Centro misure compatibilita srl

Emission 13,11-14,01 MHz

EUT: C827 HF CNTL INT.ANT
Op Cond: In TX
Operator: Gandini 10107532
Test Spec: Line L
Comment: Typical power supply
Load 50ohm





G10107533

CMC Centro misure compatibilita srl

Emission 13.11-14.01 MHz

EUT: C827 HF CNTL INT.ANT
Op Cond: In TX
Operator: Gandini 10107533
Test Spec: Line N
Comment: Typical power supply
Load 50ohm

