

**TEST REPORT
FROM
RFI GLOBAL SERVICES LTD**

Test of: Datalogic S.p.A
Docking Cradle for Skorpion PDA

To: FCC Parts 15.107 & 15.109

Test Report Serial No:
RFI/RPTE1/RP48655JD11A

This Test Report Is Issued Under The Authority
Of Michael Derby, Wireless Radio Performance Group Leader:



Tested By: Ian Watch



pp

Checked By: Michael Derby



Report Copy No: PDF01

Issue Date: 25 April 2007

Test Dates: 05 April 2007

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1. Client Information

Company Name:	Datalogic S.p.A
Address:	Via Candini, 2 Lippo di Calderara di Reno Bologna Italy 40012
Contact Name:	Mr P Guerzoni

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2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1. Identification of Equipment Under Test (EUT)

Description:	PDA
Brand Name:	Datalogic Mobile s.r.l
Model Name or Number:	DL-Skorpion 701-902
Serial Number:	D07P00000
FCC ID:	U4G0020 (The Wi-Fi card is certified under FCC ID TWG-SDCCF10G)
Country of Manufacture:	Italy
Date of Receipt:	05 April 2007

Description:	F-Colour Single Cradle
Brand Name:	Datalogic Mobile s.r.l
Model Name or Number:	F-Colour Single Cradle
Serial Number:	D06F060472
FCC ID:	Not Applicable
Country of Manufacture:	Italy
Date of Receipt:	05 April 2007

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2.2. Accessories

The following accessories were supplied with the EUT:

Description:	Serial Cable
Brand Name:	Datalogic Mobile s.r.l
Model Name or Number:	p/n 94A0540000
Serial Number:	None Stated
Cable Length:	2m
Connected to Port:	Serial Port of the Cradle

Description:	Power Supply
Brand Name:	Power Win Technology
Model Name or Number:	PW-060A-01Y140 (Within Datalogic, it is referred to as FPS18)
Serial Number:	PW72522020
Cable Length and Type:	1m, 2 core cable with a clip-on ferrite, incorporating one cable loop
Connected to Port:	Power port of the Cradle

2.3. Description of EUT

The equipment under test is a Skorpio model. It is a battery powered portable computer with *Bluetooth* (2.4 GHz) and Wi-Fi (2.4 GHz) radio capabilities.

2.4. Modifications Incorporated in the EUT

During the course of testing the EUT was not modified.

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2.5. Additional Information Related to Testing

Power Supply Requirement:	Nominal 110 V, 60 Hz AC Mains Supply via AC Charger Internal battery supply of 7.4 V		
Intended Operating Environment:	Residential Within <i>Bluetooth</i> and Wi-Fi coverage.		
Equipment Category:	<i>Bluetooth</i> 802.11b/g		
Type of Unit:	Portable		
Transmitter Frequency Range for Wi-Fi:	2412MHz to 2462MHz		
Receiver Frequency Range for Wi-Fi:	2412MHz to 2462MHz		
Receive Frequency Allocation of EUT when under test:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2412
	Middle	6	2437
	Top	11	2462
Transmitter Frequency Range for Bluetooth:	2402MHz to 2480MHz		
Receiver Frequency Range for Bluetooth:	2402MHz to 2480MHz		
Receive Frequency Allocation of EUT when under test:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	0	2402
	Middle	39	2441
	Top	78	2480

2.6. Support Equipment

No support equipment was used to exercise the EUT during testing.

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3. Test Specification, Methods and Procedures

3.1. Test Specifications

Reference:	FCC Part 15 Subpart B: 2005 (Sections 15.107 & 15.109).
Title:	Code of Federal Regulations, Part 15 (47CFR215) Radio Frequency Devices.

3.2. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI C63.2 (1996)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2003)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

DA00-705 (2000)

Title: Filing and Frequency Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

3.3. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

4. Deviations from the Test Specification

There were no deviations from the test specification.

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5. Operation of the EUT During Testing

5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated:

The EUT was tested with the Skorpion in receive mode only.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

Testing was performed with the cradle powered by an AC supply of 110 V, 60 Hz. Tests were performed with and without the Skorpion PDA in the cradle.

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6. Summary of Test Results

Range of Measurements	Specification Reference	Port Type	Compliance Status
Receiver AC Conducted Spurious Emissions (150 kHz to 30 MHz)	C.F.R. 47 FCC Part 15: 2004 Section 15.107	AC Mains	Complied
Receiver Radiated Spurious Emissions	C.F.R. 47 FCC Part 15: 2004 Section 15.109	Enclosure	Complied

6.1. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, UK.

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7. Measurements, Examinations and Derived Results

7.1. General Comments

7.1.1. This section contains test results only.

7.1.2. Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%.

Please refer to Section 8 for details of measurement uncertainties.

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7.2. Receiver AC Conducted Spurious Emissions: Section 15.107

7.2.1. The EUT was configured for AC conducted emissions measurements, as described in Section 9 of this report.

7.2.2. Tests were performed to identify the maximum emission levels on the AC Mains line of the EUT.

Results: AC Conducted Emissions – Idle Mode – Cradle with PDA

Quasi-Peak Detector Measurements on Live and Neutral Lines

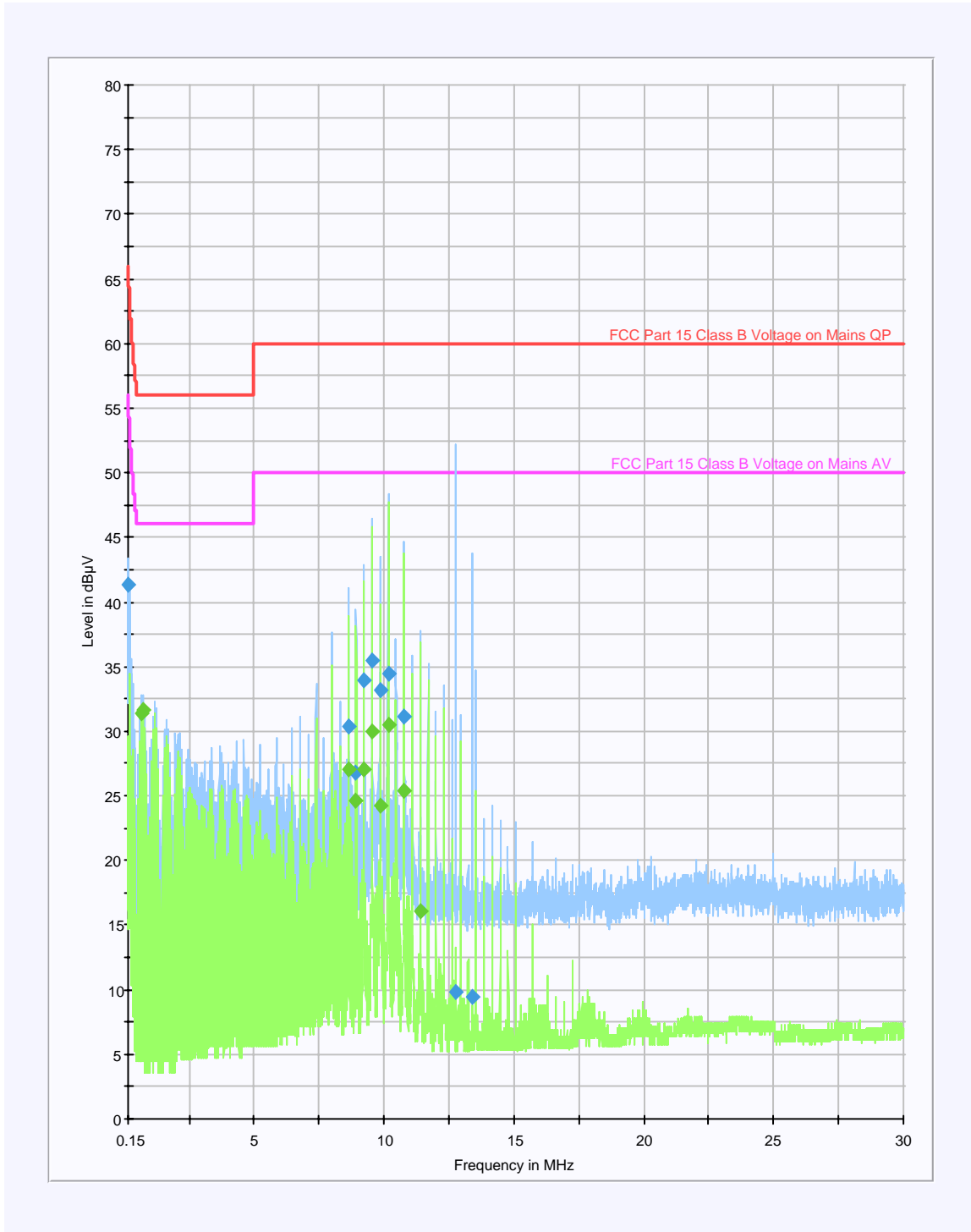
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.170000	Live	41.4	65.0	23.6	Complied
8.622000	Live	30.4	60.0	29.6	Complied
8.930000	Live	26.7	60.0	33.3	Complied
9.238000	Live	34.0	60.0	26.0	Complied
9.546000	Live	35.5	60.0	24.5	Complied
9.854000	Live	33.1	60.0	26.9	Complied
10.162000	Live	34.4	60.0	25.6	Complied
10.778000	Live	31.1	60.0	28.9	Complied
12.758000	Live	9.9	60.0	50.1	Complied
13.402000	Live	9.4	60.0	50.6	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.650000	Live	31.4	46.0	14.6	Complied
0.718000	Live	31.6	46.0	14.4	Complied
8.622000	Live	27.1	50.0	22.9	Complied
8.930000	Live	24.6	50.0	25.4	Complied
9.238000	Live	27.0	50.0	23.0	Complied
9.546000	Live	30.0	50.0	20.0	Complied
9.854000	Live	24.3	50.0	25.7	Complied
10.162000	Live	30.5	50.0	19.5	Complied
10.778000	Live	25.4	50.0	24.6	Complied
11.394000	Live	16.1	50.0	33.9	Complied

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Receiver AC Conducted Spurious Emissions: Section 15.107 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table

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7.3. Receiver AC Conducted Spurious Emissions: Section 15.107

7.3.1. The EUT was configured for AC conducted emissions measurements, as described in Section 9 of this report.

7.3.2. Tests were performed to identify the maximum emission levels on the AC Mains line of the EUT.

Results: AC Conducted Emissions – Idle Mode – Cradle without PDA

Quasi-Peak Detector Measurements on Live and Neutral Lines

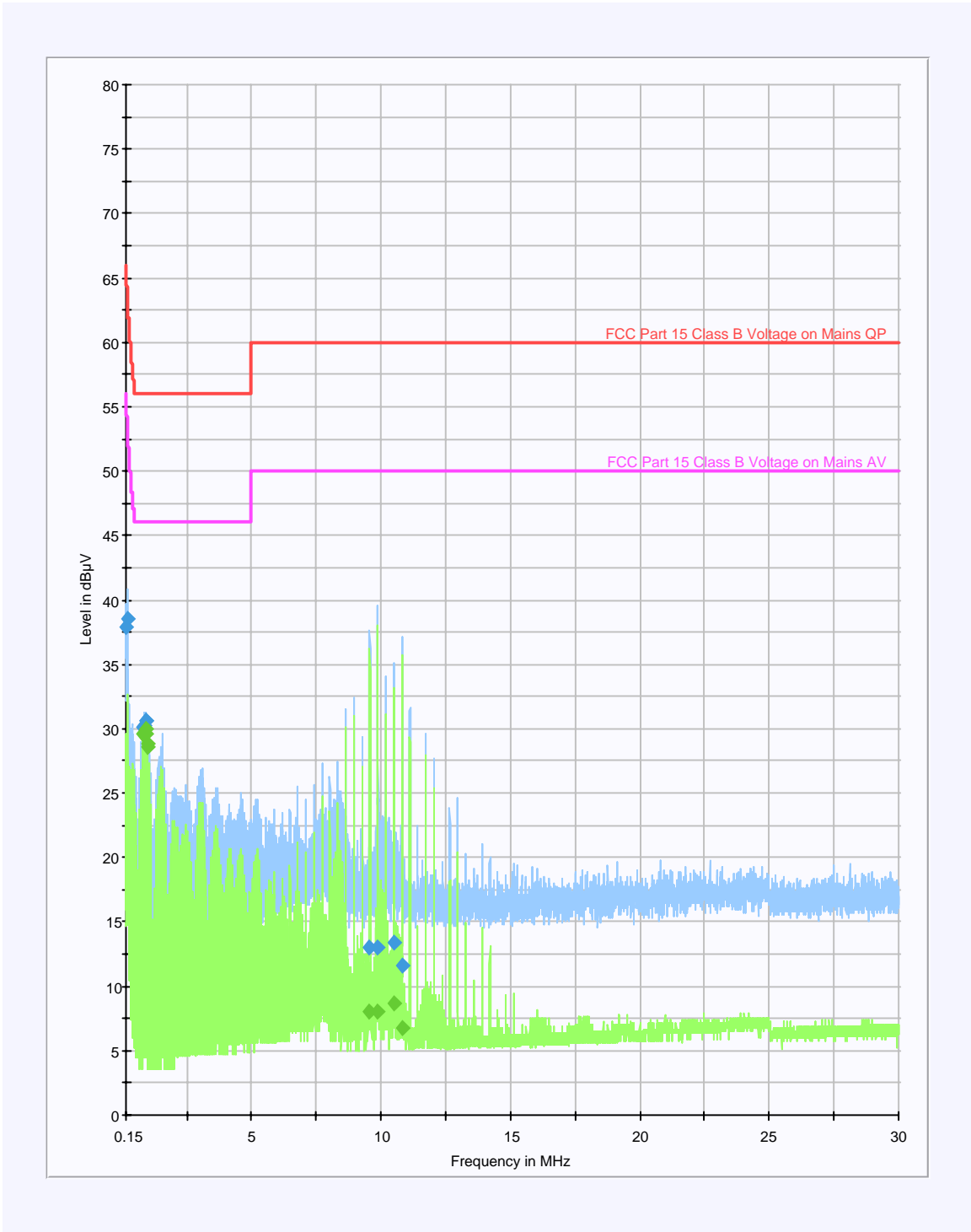
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.170000	Neutral	37.9	65.0	27.1	Complied
0.242000	Live	38.5	62.0	23.5	Complied
0.822000	Live	30.2	56.0	25.8	Complied
0.858000	Live	30.2	56.0	25.8	Complied
0.890000	Live	30.7	56.0	25.3	Complied
0.926000	Live	30.6	56.0	25.4	Complied
9.574000	Live	13.0	60.0	47.0	Complied
9.886000	Live	13.0	60.0	47.0	Complied
10.502000	Live	13.4	60.0	46.6	Complied
10.810000	Live	11.6	60.0	48.4	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.822000	Live	29.5	46.0	16.5	Complied
0.858000	Live	29.5	46.0	16.5	Complied
0.890000	Live	29.9	46.0	16.1	Complied
0.926000	Live	29.6	46.0	16.4	Complied
0.958000	Live	28.6	46.0	17.4	Complied
0.994000	Live	28.8	46.0	17.2	Complied
9.574000	Live	8.0	50.0	42.0	Complied
9.886000	Live	8.0	50.0	42.0	Complied
10.502000	Live	8.6	50.0	41.4	Complied
10.810000	Live	6.7	50.0	43.3	Complied

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Receiver AC Conducted Spurious Emissions: Section 15.107 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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7.4. Receiver Radiated Spurious Emissions: Section 15.109

7.4.1. Electric Field Strength Measurements (Frequency Range: 30 MHz to 1000 MHz)

7.4.1.1. The EUT was configured for receiver radiated emissions testing, as described in Section 9 of this report.

7.4.1.2. Tests were performed to identify the maximum receiver or standby radiated emission levels.

Results:

Top Channel

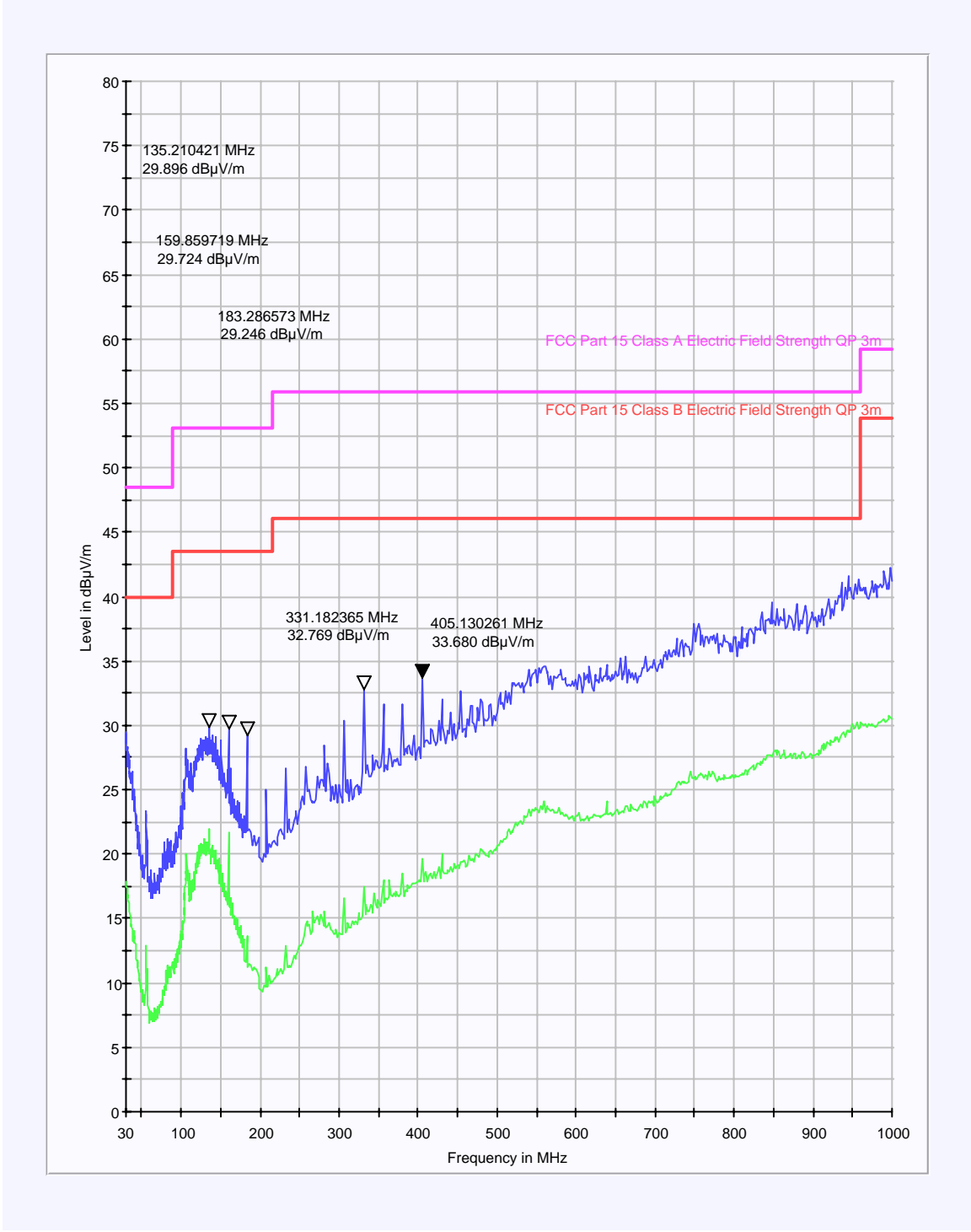
Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
405.131	Vertical	32.0	46.0	14.0	Complied

Note(s):

1. *Pre-scans were performed to ascertain the worst case configuration of the EUT. The worst case mode was found to be the Cradle with the Skorpion PDA fitted. Therefore, final measurements were made in this configuration.*
2. *All emissions observed were at least 10 dB below the specified limit. The highest level measured is included in the table above.*

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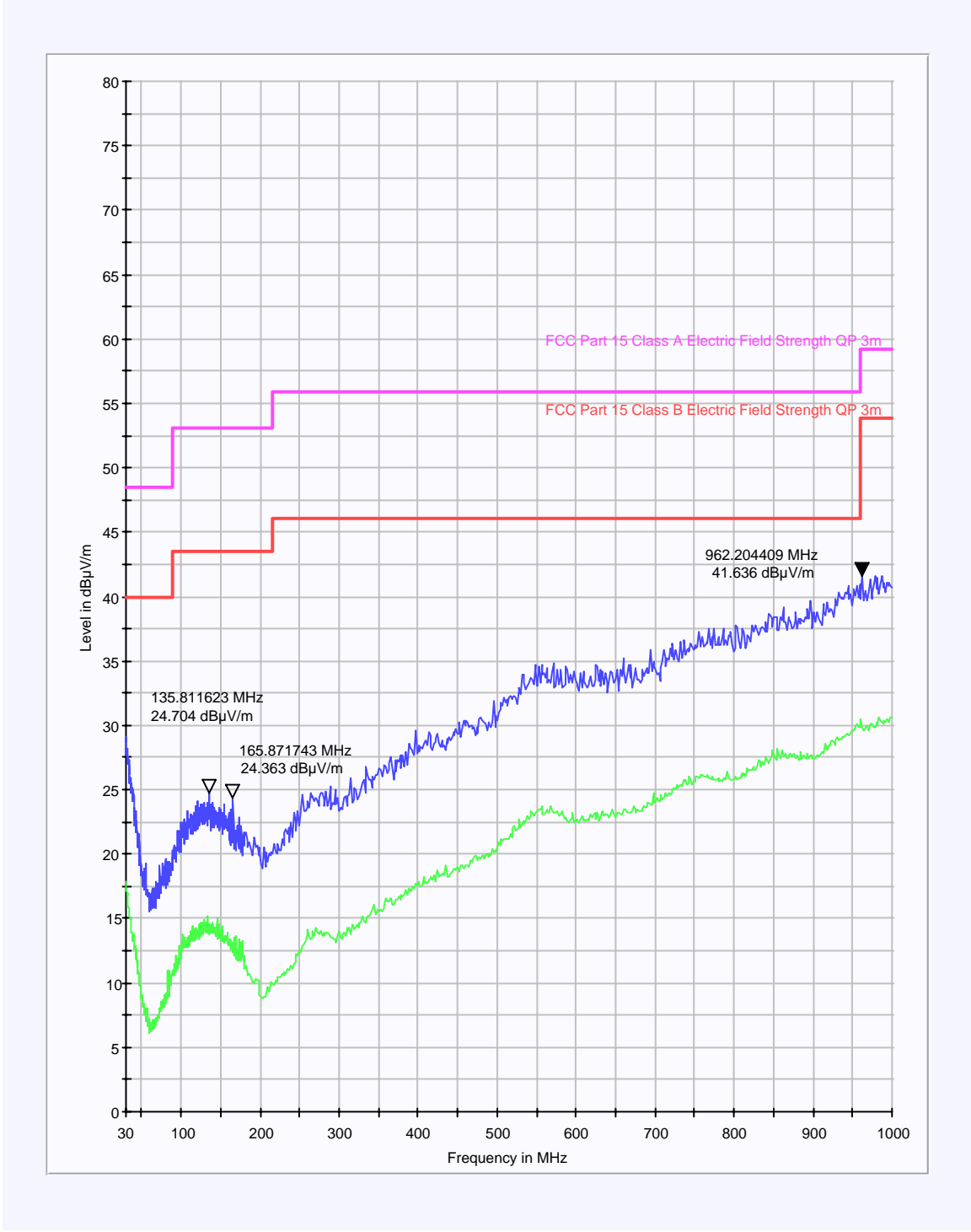
Receiver Radiated Spurious Emissions: Section 15.109 (Continued) – Cradle with PDA.



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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Receiver Radiated Spurious Emissions: Section 15.109 (Continued) – Cradle without PDA.



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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Receiver Radiated Spurious Emissions: Section 15.109 (Continued)**7.4.2. Electric Field Strength Measurements (Frequency Range: 1 GHz to 12.5 GHz)****Results:****Top Channel – Highest Peak Level:**

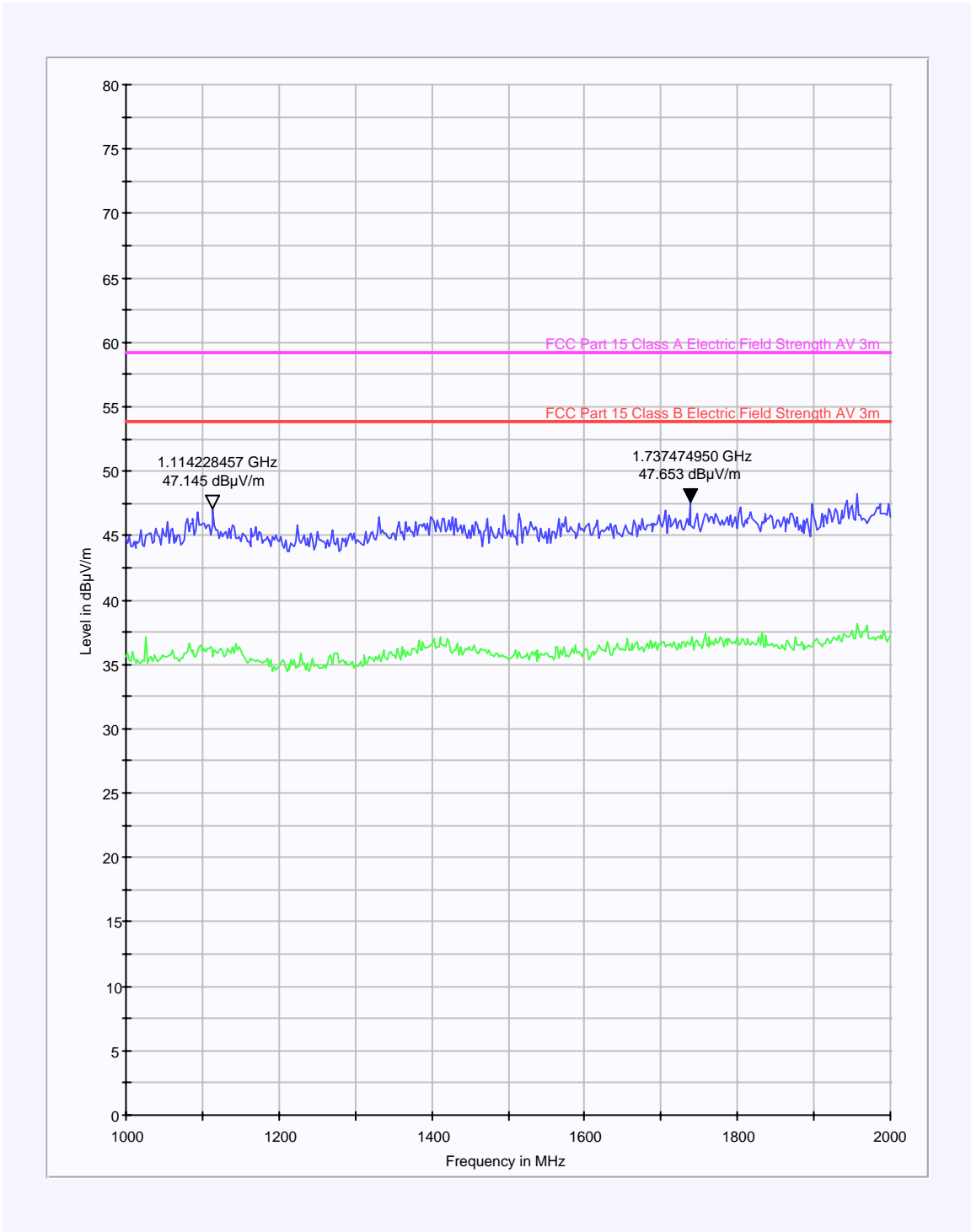
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
12.19338	Vertical	39.9	6.9	46.8	74.0	27.2	Complied

Note(s):

1. *No spurious emissions were detected above the noise floor of the measuring receiver; therefore the highest peak noise floor reading of the measuring receiver was recorded as shown in table above compared to the average limit.*

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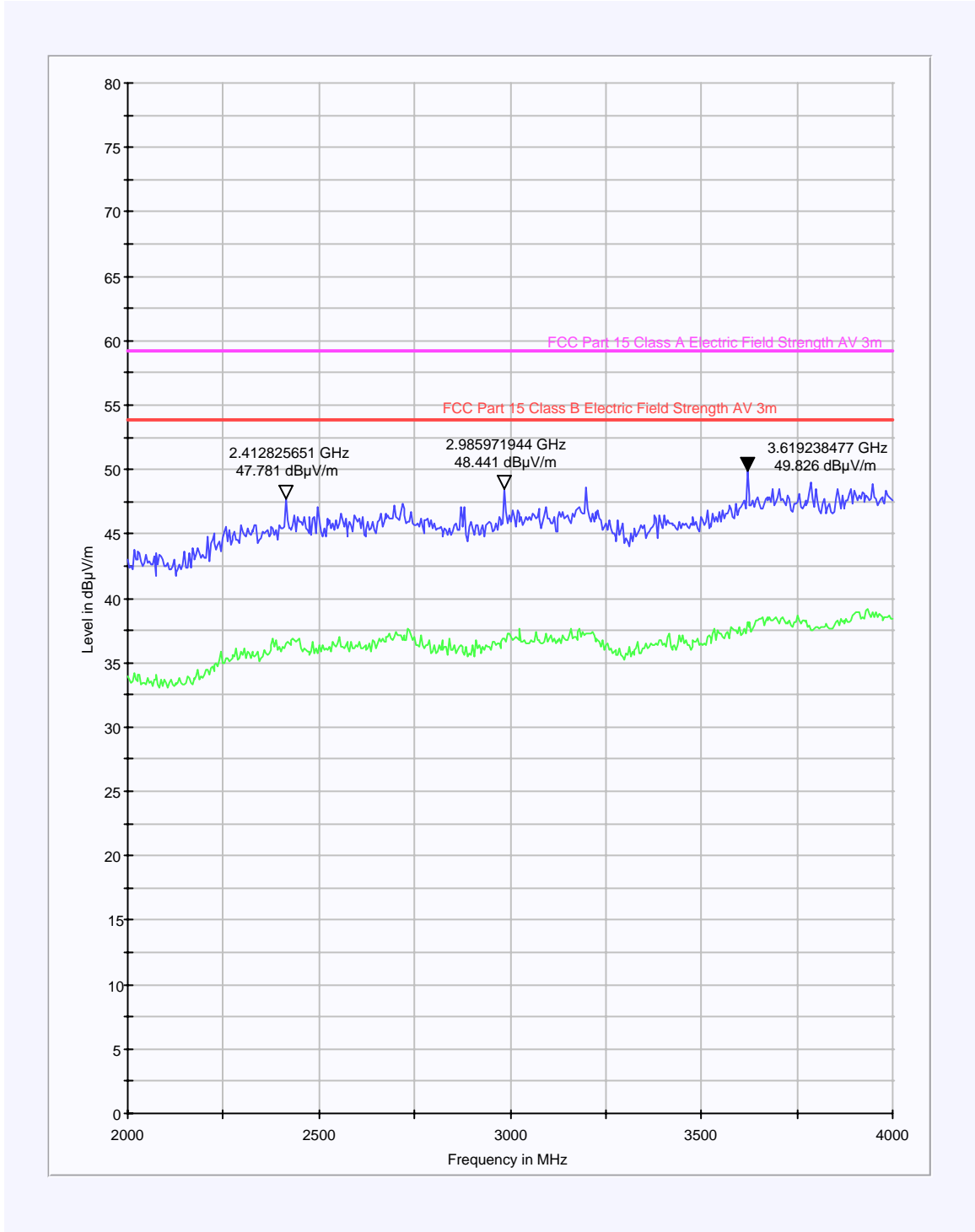
Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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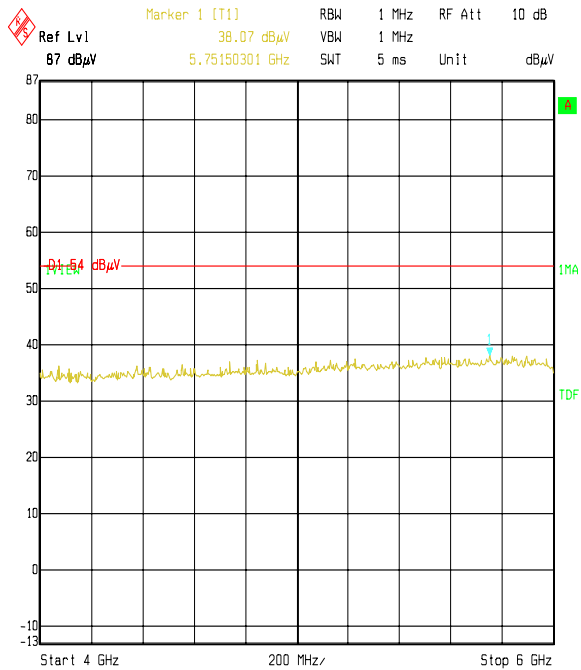
Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



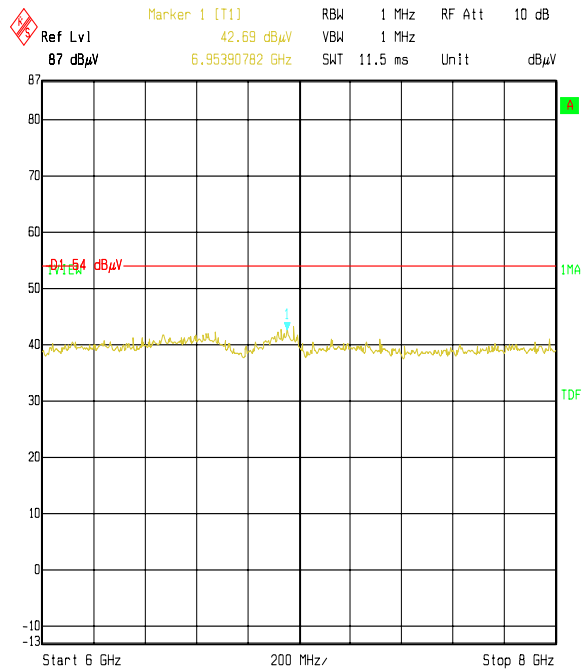
Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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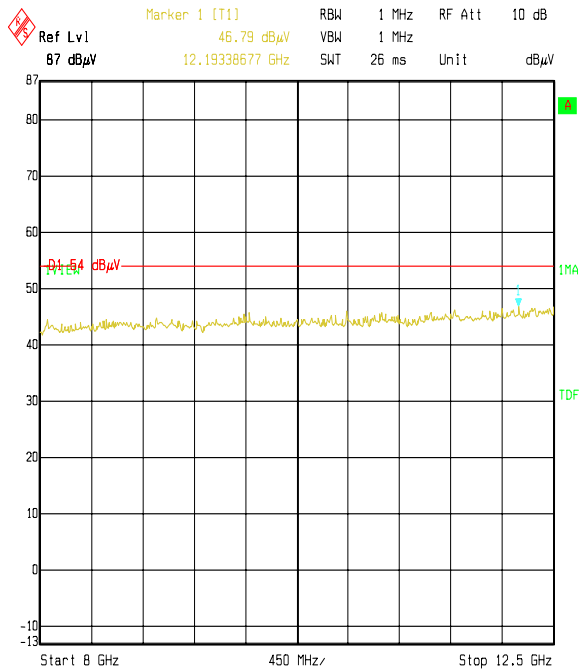
Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Title: 48655JD11 FCC PART 15 SKORPIO IN CRADLE
 Comment A: RX RADIATED
 Date: 05.APR.2007 17:00:39



Title: 48655JD11 FCC PART 15 SKORPIO IN CRADLE
 Comment A: RX RADIATED
 Date: 05.APR.2007 17:03:15



Title: 48655JD11 FCC PART 15 SKORPIO IN CRADLE
 Comment A: RX RADIATED
 Date: 05.APR.2007 17:05:53

Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

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8. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	+/- 3.25 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	+/- 5.26 dB
Radiated Spurious Emissions	1 GHz to 18 GHz	95%	+/- 4.18 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

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9. Measurement Methods

9.1. AC Mains Conducted Emissions

AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane. The EUT was powered with 110V 60 Hz AC mains supplied via a Line Impedance Stabilisation Network (LISN).

Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested (at individual frequencies) using the appropriate detector function.

The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)/Average
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz	9 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	> 1 s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

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9.2. Receiver Radiated Emissions

Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

Initial pre-scans covering the entire measurement band from the lowest generated frequency declared up to the upper frequency detailed in Section 15.33(b) were performed within a screened chamber in order to identify frequencies on which the EUT was generating interference. This determined the frequencies from the EUT, which required further examination. In order to minimise the time taken for the swept measurements, a peak detector was used in conjunction with the appropriate detector measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT.

The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. A limit line was set to the specification limit. Levels within 20 dB of this limit were measured where possible, on occasion, the receiver noise floor came within the 20 dB boundary. On these occasions, the system noise floor may have been recorded.

An open area test site using the appropriate test distance and measuring receiver with a Quasi-Peak detector was used for measurements below 1000 MHz, for measurements above 1000 MHz average and peak detectors were used.

For the final measurements the EUT was arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2001 Clause 5.4.

On the open area test site, at each frequency where a signal was found, the levels were maximised by initially rotating the turntable through 360° and then varying the antenna height between 1 m and 4 m in the horizontal polarisation. At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT. The procedure was repeated for the vertical polarisation.

The final field strength was determined as the indicated level in dB μ V plus cable loss and antenna factor.

The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements Below 1 GHz	Final Measurements Above 1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak/Average
Mode:	Max Hold	Not applicable	Not applicable
Bandwidth:	(120 kHz < 1 GHz) (1 MHz > 1 GHz)	120 kHz	1 MHz
Amplitude Range:	100 dB	100 dB	100 dB
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

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Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval
A028	9188-2 Horn Antenna 1-2 GHz	Eaton	91888-2	304	08 Jun 2006	36
A031	2 to 4 GHz Eaton Horn Antenna	Eaton	91889-2	557	08 Jun 2006	36
A1534	Preamplifier 1-26.5 GHz	Hewlett Packard	8449B OPT H02	3008A00405	Calibrate Before Use	-
A1829	N-Type Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100671	08 Jan 2007	12
A253	WG 12 Microwave Horn	Flann Microwave	12240-20	128	17 Nov 2006	36
A254	WG 14 Microwave Horn	Flann Microwave	14240-20	139	17 Nov 2006	36
A255	WG 16 Microwave Horn	Flann Microwave	16240-20	519	17 Nov 2006	36
A490	30 to 1000 MHz, 50 W	Chase	CBL6111A	1590	25 Jan 2007	12
A649	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	825562/008	01 Mar 2007	12
C1081	UFA210A Rosenberger Cable	Rosenberger	FA210A1020 M5050	28463-2	Calibrate Before Use	-
C1083	Cable	Rosenberger	001	2799	Calibrate Before Use	-
C1167	3m N-Type Cable	Rosenberger Micro-Coax	FA210A10300 07070	43190-01	Calibrate Before Use	-
C1262	7m BNC coaxial cable	Rosenberger	FA210A00750 08080	49356-2	Calibrate Before Use	-
C454	3m Flexy Cable	Rosenberger	RG142XX-001-RFIB	C454-10081998	Calibrate Before Use	-
C574	50 ohm co-ax	Rosenberger	UFA210A-1-788-50x50	97E0937	Calibrate Before Use	-
M1242	Spectrum Analyser	Rohde & Schwarz, Inc.	FSEM30	845986_022	08 Sep 2006	12
M1273	20 Hz - 26.6 GHz EMI Test Receiver, Rhode & Schwarz	Rhode & Schwarz	ESIB 26	100275	20 Feb 2007	12
M1379	ESIB 7 Test Receiver	Rohde and Schwarz	ESIB7	100330	03 July 2006	12
S202	3m OATS	RFI	2	S202-15011990	17 Nov 2006	12
S209	Emissions Screened Room	RFI	9		29 May 2006	12

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

Test of: Datalogic S.p.A
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To: FCC Parts 15.107 & 15.109

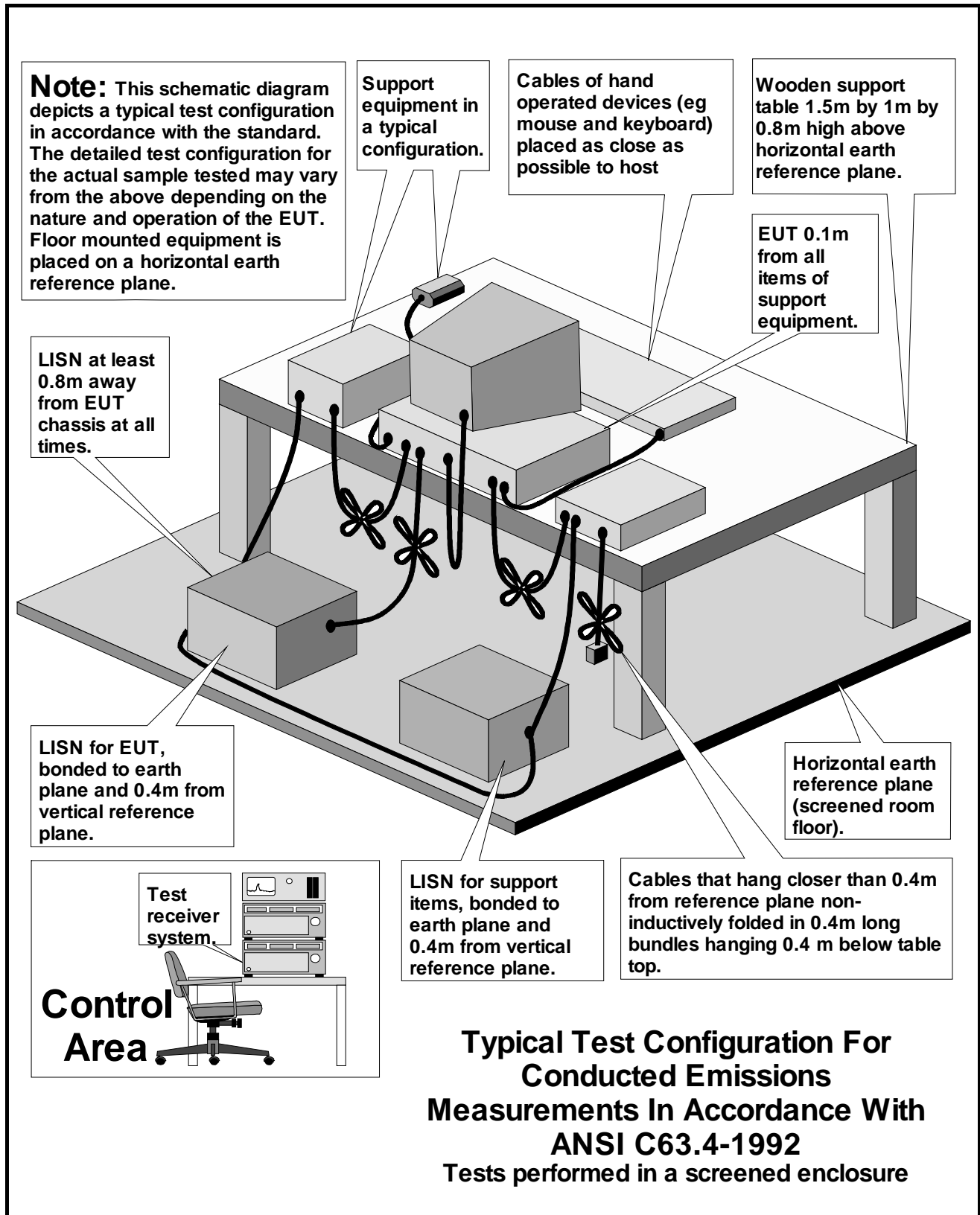
Appendix 2. Test Configuration Drawings

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\48655JD11A\EMICON	Test configuration for measurement of conducted emissions.
DRG\48655JD11A\EMIRAD	Test configuration for measurement of radiated emissions.

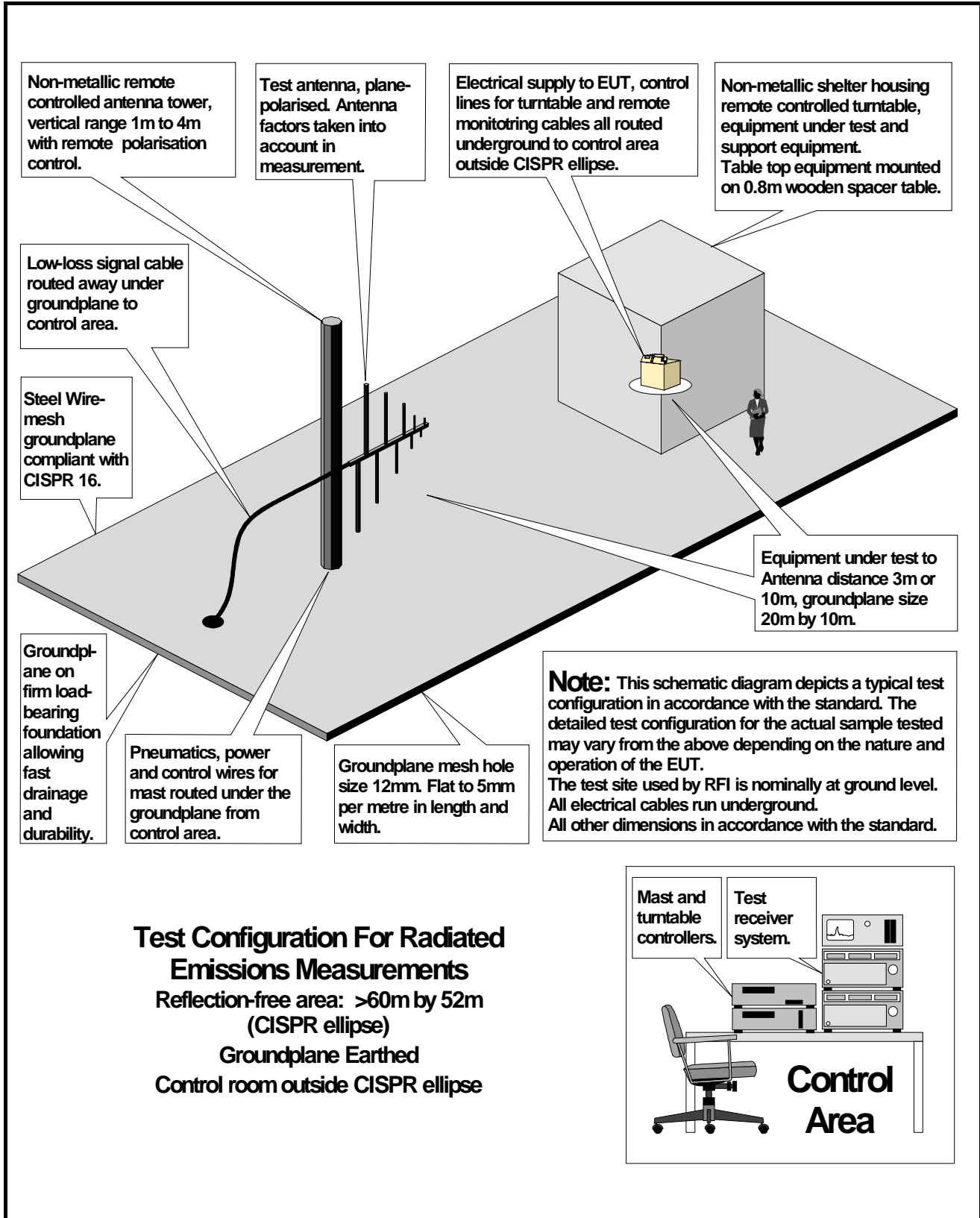
Test of: Datalogic S.p.A
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DRG\48655JD11A\EMICON



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DRG\48655JD11A\EMIRAD



**Test of: Datalogic S.p.A
Docking Cradle for Skorpion PDA
To: FCC Parts 15.107 & 15.109**

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