



**TEST REPORT CONCERNING THE COMPLIANCE OF
AN ANTI PILFERAGE SYSTEM, BRAND NEDAP,
MODEL NCC1/NR2/NT2/IO MD4 WITH
47 CFR PART 15 (2003-12-08).**

FCC listed : 90828
Industry Canada : IC3501
VCCI registered : R-1518, C-1598

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Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

MEASUREMENT/TECHNICAL REPORT

NEDAP N.V.

Model : NCC1/NR2/NT2/IO MD4

FCC ID: CGD IQ-MD4

May 18, 2004

This report concerns:	Original grant/certification	Class 2 change	Verification
Equipment type:	Anti Pilferage system operating in the 8.2 MHz range		
Deferred grant requested per 47 CFR 0.457(d)(1)(ii) ?	Yes	No	n.a.
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The data taken for this test and report herein was done in accordance with 47 CFR Part 15 and the measurement procedures of ANSI C63.4-1992. TNO Electronic Products & Services (EPS) B.V. at Niekerk, The Netherlands, certifies that the data is accurate and contains a true representation of the emission profile of the Equipment Under Test (EUT) on the date of the test as noted in the test report. I have reviewed the test report and find it to be an accurate description of the test(s) performed and the EUT so tested.

Date: May 19, 2004

Signature:

P. de Beer
TNO Electronic Products & Services (EPS) B.V.



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

Description of test item

Test item : Anti Pilferage system
Manufacturer : N.V. Nederlandsche Apparatenfabriek NEDAP
Brand : NEDAP
Model : NCC1 NR2NT2 IO MD4
Serial number : R929 B 002
Revision : n.a.
Receipt number : 1
Receipt date : January 4 2004

Applicant information

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Test(s) performed

Location : Niekerk
Test(s) started : January 5, 2004
Test(s) completed : February 10, 2004
Purpose of test(s) : FCC equipment authorisation
Test specification(s) : 47 CFR Part 15 (2003-12-08)

Test engineers : J. Schuurmans, 

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Report written by : J. Schuurmans 

Project leader: : H.J. Pieters 

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The test results relate only to the item(s) tested.



Table of contents

1	General information.....	6
1.1	Product description.....	6
1.1.1	Introduction.....	6
1.1.2	Choice of operating frequency.....	6
1.1.3	Operating principles.....	6
1.2	Related submittal(s) and/or Grant(s).....	6
1.3	Tested system details.....	7
1.4	Test methodology.....	8
1.5	Test facility.....	8
1.6	Product labeling.....	8
2	System test configuration.....	9
2.1	Justification.....	9
2.2	EUT mode of operation.....	9
2.3	Special accessories.....	9
2.4	Equipment modifications.....	9
2.5	Configuration of the tested system.....	9
2.6	Tested Operating Configurations.....	10
2.7	Block diagrams of the tested configurations.....	10
2.8	Block diagram of the EUT.....	10
2.9	Schematics of the EUT.....	10
2.10	Partlist of the EUT.....	10
3	Radiated emission data.....	11
3.1	Frequency range of 30 -1000 MHz, E-field.....	11
3.1.1	Radiated field strength measurements, configuration I, passive mode.....	11
3.1.2	Radiated field strength measurements, of configuration I, active mode.....	13
3.1.3	Radiated field strength measurements, configuration II, passive mode.....	15
3.1.4	Radiated field strength measurements, configuration II, active mode.....	17
3.1.5	Radiated field strength measurements, configuration III, passive mode.....	18
3.1.6	Radiated field strength measurements, configuration, III, active mode.....	19
3.1.7	Radiated field strength measurements, configuration VI, passive mode.....	20
3.1.8	Radiated field strength measurements, configuration VI, active mode.....	21
3.1.9	Radiated field strength measurements, configuration VII, passive mode.....	22
3.1.10	Radiated field strength measurements, configuration VII, active mode.....	23
3.1.11	Radiated field strength measurements, configuration VIII, passive mode.....	24
3.1.12	Radiated field strength measurements, configuration VIII, active mode.....	25
3.1.13	Radiated field strength measurements, configuration XIV, passive mode.....	27
3.1.14	Radiated field strength measurements, configuration XIV, active mode.....	29
3.1.15	Radiated field strength measurements, configuration XV, passive mode.....	30
3.1.16	Radiated field strength measurements, configuration XV, active mode.....	31
3.1.17	Radiated field strength measurements, configuration XVI, passive mode.....	32
3.1.18	Radiated field strength measurements, configuration XVI, active mode.....	33
3.2	Frequency range of 0.009-30 MHz, H-field.....	34
3.2.1	Radiated field strength measurements, configuration I, passive mode.....	34
3.2.2	Radiated field strength measurements, configuration I, active mode.....	35
3.2.3	Radiated field strength measurements, configuration I, sweep stopped.....	36
3.2.4	Radiated field strength measurements, configuration II, passive mode.....	37
3.2.5	Radiated field strength measurements, configuration II, active mode.....	38
3.2.6	Radiated field strength measurements, of configuration II, sweep stopped.....	39
3.2.7	Radiated field strength measurements, configuration III, passive mode.....	40
3.2.8	Radiated field strength measurements, configuration III, active mode.....	41
3.2.9	Radiated field strength measurements, of configuration III, sweep stopped.....	42
3.2.10	Radiated field strength measurements, configuration VI, passive mode.....	43
3.2.11	Radiated field strength measurements, configuration VI, active mode.....	44
3.2.12	Radiated field strength measurements, of configuration VI, sweep stopped.....	45
3.2.13	Radiated field strength measurements, configuration VII, passive mode.....	46



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.2.14	Radiated field strength measurements, configuration VII, active mode.....	47
3.2.15	Radiated field strength measurements, of configuration VII, sweep stopped.....	48
3.2.16	Radiated field strength measurements, configuration VIII, passive mode.....	49
3.2.17	Radiated field strength measurements, configuration VIII, active mode.....	50
3.2.18	Radiated field strength measurements, configuration VIII, sweep stopped.....	51
3.2.19	Radiated field strength measurements, configuration XIV, passive mode.....	52
3.2.20	Radiated field strength measurements, configuration XIV, active mode.....	53
3.2.21	Radiated field strength measurements, configuration XIV sweep stopped.....	54
3.2.22	Radiated field strength measurements, configuration XV, passive mode.....	55
3.2.23	Radiated field strength measurements, configuration XV, active mode.....	56
3.2.24	Radiated field strength measurements, configuration XV sweep stopped.....	57
3.2.25	Radiated field strength measurements, configuration XVI, passive mode.....	58
3.2.26	Radiated field strength measurements, configuration XVI, active mode.....	59
3.2.27	Radiated field strength measurements, configuration XVI, sweep stopped.....	60
4	Conducted emission data.....	61
4.1	Conducted emission, Configuration I, passive mode.....	61
4.2	Conducted emission, Configuration I, active mode.....	62
4.3	Conducted emission, Configuration I, sweep stopped.....	63
4.4	Conducted emission, Configuration II, passive mode.....	64
4.5	Conducted emission, Configuration II, active mode.....	65
4.6	Conducted emission, Configuration II, sweep stopped.....	66
4.7	Conducted emission, Configuration III, passive mode.....	67
4.8	Conducted emission, Configuration III, active mode.....	68
4.9	Conducted emission, Configuration III, sweep stopped.....	69
4.10	Conducted emission, Configuration VI, passive mode.....	70
4.11	Conducted emission, Configuration VI, active mode.....	71
4.12	Conducted emission, Configuration VI, sweep stopped.....	72
4.13	Conducted emission, Configuration VII, passive mode.....	73
4.14	Conducted emission, Configuration VII, active mode.....	74
4.15	Conducted emission, Configuration VII, sweep stopped mode.....	75
4.16	Conducted emission, Configuration VIII, passive mode.....	76
4.17	Conducted emission, Configuration VIII, active mode.....	77
4.18	Conducted emission, Configuration VIII, sweep stopped mode.....	78
4.19	Conducted emission, Configuration XIV, passive mode.....	79
4.20	Conducted emission, Configuration XIV, active mode.....	80
4.21	Conducted emission, Configuration XIV, sweep stopped.....	81
4.22	Conducted emission, Configuration XV, passive mode.....	82
4.23	Conducted emission, Configuration XV, active mode.....	83
4.24	Conducted emission, Configuration XV, sweep stopped.....	84
4.25	Conducted emission, Configuration XVI, passive mode.....	85
4.26	Conducted emission, Configuration XVI, active mode.....	86
4.27	Conducted emission, Configuration XVII, sweep stopped.....	87
5	Measurements of bandwidth of the emission.....	88
5.1	Configuration I: plot of bandwidth of the emission.....	88
5.2	Configuration II: plot of bandwidth of the emission.....	89
5.3	Configuration III: plot of bandwidth of the emission.....	90
5.4	Configuration VI: plot of bandwidth of the emission.....	91
5.5	Configuration VII: plot of bandwidth of the emission.....	92
5.6	Configuration VIII: plot of bandwidth of the emission.....	93
5.7	Configuration XIV: plot of bandwidth of the emission.....	94
5.8	Configuration XV: plot of bandwidth of the emission.....	95
5.9	Configuration XVI: plot of bandwidth of the emission.....	96
6	List of utilized test equipment.....	97
7	Appendix.....	98



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Manufacturer: NEDAP N.V.
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Model: NCC1/NR2/NT2/IO
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1 General information.

1.1 Product description.

1.1.1 Introduction.

The NEDAP NCC1/NR2/NT2/IO MD4 has been developed as a shop-lifting system detection system for clothes-shops. A miniature responder (called wafer) is attached to the clothes to be protected. These wafers are removed after paying. In the event of theft, they are still present and are detected when they enter the vicinity of the detection pillars consisting of a transmitter and a receiver pillar. The pillars form one or more passages and are located at the exit of the store. As an additional function the NCC1/NR2/NT2/IO MD4 is capable of detecting metal.

1.1.2 Choice of operating frequency.

The operating frequency of the NCC1/NR2/NT2/IO/MD4-system is 8.2 MHz \pm 700 kHz.). The metal detection circuitry operates at 62 kHz

1.1.3 Operating principles.

The heart of the EAS system is the wafer. The wafer contains a resonant circuit, consisting of an air cored loop and a capacitor. If the loop enters an alternating magnetic field, such as that of a primary transmitting loop, an electric voltage is generated in the windings. If the frequency of the alternating magnetic field corresponds to the resonant frequency of the wafer (determined by the self-inductance of the loop and the capacity of the capacitor), the voltage over the loop will cause an alternating current in the series connection of the coil and the capacitor. The current in the loop then generates its own, secondary, alternating magnetic field, which is 90 degrees phase shifted. This secondary field induces a voltage in the receiver antenna and is phase sensitive detected.

In this way energy is absorbed from the transmitting circuit by the wafer circuit. This energy is dissipated in the loss resistance, which should be connected in series with the loop and capacitor in the wafer.

The entire system consists of a central control unit, the NCC. The NCC offers multiple ways of building a system. The minimum requirement is the connection of two antennas, which together for an entrance or exit port. Up to two pairs of antennas may be connected at the same time. In stead of an extra pair of antennas, the system can be expanded with a NR2/NT2/IO. The NR/NT2/IO gives the possibility two connect two extra pairs of antennas. Last but not least, the system may be expanded by up to 8 Customer Counting sensors, using IR technology.

The antennas always contain passive matching circuitry. In addition they may contain electronics and wiring to accommodate customer counting using IR technology.

In all possible configurations the NCC is the unit where signal and frequency generation is performed.

The NCC offers also the possibility to connect a PAGSLS 433. This device is triggered when the system is in alarm mode, and pages a 433 MHz receiver which is typically worn by security personnel in shops.

1.2 Related submittal(s) and/or Grant(s).

Not applicable.



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FCC ID: CGD IQ-MD4

1.3 Tested system details.

Details and an overview of the system and all of its components, as it has been tested, may be found in table 1 below. FCC ID's are stated in this overview where applicable. The EUT is listed in the first row of table 1.

Description	Manufacturer	Model number	Serial number	FCC ID	Cable descriptions
Central Control Unit	NEDAP N.V.	NCC1/NT2/NR2/IO MD4	R929 B 002	CGD IQ-MD4	RG59U coaxial cables with factory ferrite beads.
Antenna pairs	NEDAP N.V.	See overview	n.a.	CGD IQ_MD4	Coaxial cables with factory fitted ferrite beads
433 MHz Device	NEDAP N.V.	PAGSLS 433	PN11 022	CGD	6-wire data cable
Slave Unit	NEDAP N.V.	/NR2/NT2/IO	R925 014	CGD IQ-MD\$	Coaxial cable for supply and frequency synchronisation
Switched Mode Power Supply	NEDAP N.V.	PS NCC	P 926 001	n.a.	Unshielded DC power cable
Multiplex filter	NEDAP	MD-PG45	R 909003	CGD IQ-MD4	Coaxial cables with factory fitted ferrite beads

Table 1 - Tested system details overview.



Test specification(s): 47 CFR Part 15 (2003-12-08)
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1.4 Test methodology.

The test methodology used is based on the requirements of 47 CFR Part 15 (2003-12-08), sections 15.207, 15.205, 15.209 and 15.223.

The test methods, which have been used, are based on ANSI C63.4: 1992.

Radiated emission tests above 30 MHz were performed at a measurement distance of 3 meters. Below 30 MHz the radiated emission tests were carried out at measurement distances of 3 and 10 meters. The test results regarding the radiated emission tests on frequencies below 30 MHz have been extrapolated in order to determine the field strength of the measured values at measurement distances of 30 and 300 meters (as required by 47 CFR Part 15).

The receivers are switching automatically to the right bandwidth in accordance with CISPR 16. This is implemented in the receiver. The antenna factors are programmed in the test receiver. The receiver automatically calculates the appropriate correction factor for the utilized antenna and also the appropriate antenna factor for the cable loss. The total correction is automatically added to the measured value.

1.5 Test facility.

The Federal Communications Commission has reviewed the technical characteristics of the test facilities at TNO Electronic Products & Services (EPS) B.V., located in Niekerk, 9822 TL Smidshornerweg 18, The Netherlands, and has found these test facilities to be in compliance with the requirements of 47 CFR Part 15, section 2.948, per October 23, 2000.

The description of the test facilities has been filed at the Office of the Federal Communications Commission under registration number 90828. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.

The list of all public test facilities is available on the Internet at <http://www.fcc.gov>.

1.6 Product labeling.

In accordance with 47 CFR Part 15.19 (a)(3) the following text shall be placed on a label, which is attached to the NCC:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

In accordance with 47 CFR Part 2.925 (a)(1), the FCC ID shall be placed on a label, which is attached to the all other system components.

For further details about the labeling requirements (size, legibility, etc.) as set by the Federal Communications Commission see 47 CFR Part 15.19 (a)(3), 47 CFR Part 15.19 (b)(2), 47 CFR Part 15.19 (b)(4), 47 CFR Part 2.925 and 47 CFR Part 2.926.



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2 System test configuration.

2.1 Justification.

The system was configured for testing in a typical fashion (as a customer would normally use it). During all tests the EUT was set up to function in accordance with the manufacturer's instructions.

The justification and manipulation of cables and equipment in order to simulate a worst-case behaviour of the test setup has been carried out as prescribed in ANSI C63.4: 1992.

2.2 EUT mode of operation.

Radiated and conducted emission measurements were carried out when the system was active and was generating a continuous transmitting signal. In addition, the system was tested while a tag was placed in the detection field, triggering the alarm mode of the system.

2.3 Special accessories.

No special accessories are used and/or needed to achieve compliance with the appropriate sections of 47 CFR Part 15.

2.4 Equipment modifications.

No modifications have been made to the equipment in order to achieve compliance with the appropriate sections of 47 CFR Part 15.

2.5 Configuration of the tested system.

Unit title	:	Anti Pilferage system
Model number	:	NCC/NR2/NT2/IO
Part number	:	9887172
FCC ID	:	CGD IQ-MD4
Frequency range	:	8.2 MHz +/- 700 kHz (sweeping operation and 62.5 kHz fixed frequency transmitter)
Description/details	:	See section 1.1 of this test report
Power supply	:	+30 Volts DC (Powered by external power supply)
Clock Oscillator(s)	:	32 MHz
Cabinet & Screening	:	Metal
Interface Cable(s)	:	Shielded data/DC power cable, 50 Ohms RG59U cable with factory fitted ferrite beads
Method of screening	:	Not applicable
Method of grounding	:	Not applicable



2.6 Tested Operating Configurations

The flexibility of the system is such that it can be installed in many configurations. The rationale of the tested setup is that all antennas have to be tested, as well as all possible extensions. From all combinations it was decided before testing based on good engineering practice and judgement what was expected to be the worst case configurations. The tested configuration are described below. The block diagrams of tested configuration are annexed to this report.

Note 1) Power adapter in all configurations the same;

Note 2) All configuration have master NCC1/NR2/NT2/IO MD4.

Configuration name	Master	Antenna pair 1	Antenna pair 2	PAGSLS 433	MUX filter	Auxiliary unit	Slave unit
I	MD	EQ30MDCC	EQ30	YES	YES	INPUT	YES
II	MD	PG30MDCC	PG30	YES	YES	RELAY	YES
III	MD	EQ45MDCC	EQ45	NO	YES	NO	YES
VI	MD	PG30MD	PG30CC	NO	NO	NO	YES
VII	MD	EQ30MD	EQ30CC	NO	NO	NO	YES
VIII	MD	EQ45MD	EQ45CC	NO	YES	NO	YES
XIV	MD	EQ45MD	EQ45MDCC	YES	YES	NO	NO
XV	MD	EQ30MD	EQ30MDCC	YES	YES	NO	NO
XVI	MD	PG30MD	PG30MDCC	YES	YES	NO	NO

2.7 Block diagrams of the tested configurations

The block diagrams of the tested configurations are annexed to this test report.

2.8 Block diagram of the EUT.

The block diagram is available in the technical documentation package as an addendum to this test report.

2.9 Schematics of the EUT.

The schematics are available in the technical documentation package as an addendum to this test report.

2.10 Partlist of the EUT.

The partlist is available in the technical documentation package as an addendum to this test report.



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 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
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3 Radiated emission data.

3.1 Frequency range of 30 -1000 MHz, E-field

3.1.1 Radiated field strength measurements, configuration I, passive mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
82.84	20.5	17.6	40.0	-19.5	-22.4	PASS
143.26	29.2	23.8	43.5	-14.3	-19.7	PASS
150.00	34.4	35.2	43.5	-9.1	-8.3	PASS
163.84	31.8	30.1	43.5	-11.7	-13.4	PASS
180.00	28.5	26.4	43.5	-15.0	-17.1	PASS
196.61	29.1	32.3	43.5	-14.4	-11.2	PASS
200.00	25.1	30.6	43.5	-18.4	-12.9	PASS
207.91	27.0	28.2	43.5	-16.5	-15.3	PASS
210.00	25.9	26.6	43.5	-17.6	-16.9	PASS
215.90	25.8	31.8	43.5	-17.7	-11.7	PASS
216.84	31.7	29.5	46.0	-14.3	-16.5	PASS
229.38	28.2	28.1	46.0	-17.8	-17.9	PASS
240.06	29.8	30.6	46.0	-16.2	-15.4	PASS
262.14	34.3	31.2	46.0	-11.7	-14.8	PASS
270.00	31.6	28.2	46.0	-14.4	-17.8	PASS
327.68	21.3	35.6	46.0	-24.7	-10.4	PASS
330.00	25.4	27.8	46.0	-20.6	-18.2	PASS
360.45	26.5	43.9	46.0	-19.5	-2.1	PASS
390.00	40.5	38.5	46.0	-5.5	-7.5	PASS
393.22	44.6	38.9	46.0	-1.4	-7.1	PASS
420.00	29.5	28.7	46.0	-16.5	-17.3	PASS
425.98	29.1	22.1	46.0	-16.9	-23.9	PASS
450.00	32.5	25.4	46.0	-13.5	-20.6	PASS
458.75	29.1	24.5	46.0	-16.9	-21.5	PASS
467.75	29.8	23.3	46.0	-16.2	-22.7	PASS
491.51	30.6	27.9	46.0	-15.4	-18.1	PASS

Table 1



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Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
508.28	24.8	24.8	46.0	-21.2	-21.2	PASS
510.00	30.9	26.6	46.0	-15.1	-19.4	PASS
524.29	32.5	27.5	46.0	-13.5	-18.5	PASS
537.02	29.5	26.5	46.0	-16.5	-19.5	PASS
540.00	32.2	26.6	46.0	-13.8	-19.4	PASS
548.86	30.9	27.1	46.0	-15.1	-18.9	PASS
557.06	29.8	27.1	46.0	-16.2	-18.9	PASS
570.00	29.4	27.0	46.0	-16.6	-19.0	PASS
589.82	29.3	26.8	46.0	-16.7	-19.2	PASS
622.59	32.0	27.2	46.0	-14.0	-18.8	PASS
720.89	30.9	29.6	46.0	-15.1	-16.4	PASS
753.66	37.9	34.7	46.0	-8.1	-11.3	PASS
819.19	32.9	30.9	46.0	-13.1	-15.1	PASS
433.91	64.6	65.4	80.8	-16.2	-15.4	PASS
867.82	42.5	45.2	61.9	-19.4	16.7	PASS

Table 1

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in table 1.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 1 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).
5. The pager transmitter (FCC ID: CGDPAGSL) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Test engineer: J. Schuurmans

Signature:

Date :26 January , 2004



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3.1.2 Radiated field strength measurements, of configuration I, active mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
82.84	23.6	15.1	40.0	-16.4	-24.9	PASS
90.00	25.9	17.1	43.5	-17.6	-26.4	PASS
143.26	30.4	29.8	43.5	-13.1	-13.7	PASS
150.00	35.4	36.3	43.5	-8.1	-7.2	PASS
163.84	29.8	27.1	43.5	-13.7	-16.4	PASS
180.00	26.9	29.0	43.5	-16.6	-14.5	PASS
196.60	27.1	30.1	43.5	-16.4	-13.4	PASS
200.00	26.0	30.1	43.5	-17.5	-13.4	PASS
208.65	26.2	27.5	43.5	-17.3	-16.0	PASS
210.00	26.7	27.8	43.5	-16.8	-15.7	PASS
215.90	29.9	28.3	43.5	-13.6	-15.2	PASS
210.26	27.6	27.1	43.5	-15.9	-16.4	PASS
229.38	27.7	27.8	46.0	-18.3	-18.2	PASS
240.06	28.9	30.1	46.0	-17.1	-15.9	PASS
262.14	32.2	32.9	46.0	-13.8	-13.1	PASS
270.00	31.8	31.4	46.0	-14.2	-14.6	PASS
294.91	26.6	31.0	46.0	-19.4	-15.0	PASS
311.92	21.5	27.5	46.0	-24.5	-18.5	PASS
327.68	22.7	30.7	46.0	-23.3	-15.3	PASS
330.00	23.6	32.7	46.0	-22.4	-13.3	PASS
360.40	25.5	28.3	46.0	-20.5	-17.7	PASS

Table 2



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
390.00	42.0	39.3	46.0	-4.0	-6.7	PASS
393.22	45.8	36.1	46.0	-0.2	-9.9	PASS
420.00	28.8	<<	46.0	-17.2	n.a.	PASS
425.98	27.7	<<	46.0	-18.3	n.a.	PASS
450.00	30.0	<<	46.0	-16.0	n.a.	PASS
458.75	31.0	<<	46.0	-15.0	n.a.	PASS
467.75	30.2	<<	46.0	-15.8	n.a.	PASS
524.29	32.7	<<	46.0	-13.3	n.a.	PASS
433.91	63.7	62.8	80.8	-17.1	-18	PASS
867.82	43.7	46.3	61.9	-18.2	-15.6	PASS

Table 2: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4) (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in table 2.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 2 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means that the system is in alarm mode.
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature:

Test engineer: J. Schuurmans

Date :January 26 , 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.1.3 Radiated field strength measurements, configuration II, passive mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
82.84	23.6	15.1	40.0	-16.4	-24.9	PASS
90.00	25.9	17.1	43.5	-17.6	-26.4	PASS
143.26	30.4	29.8	43.5	-13.1	-13.7	PASS
150.00	35.4	36.3	43.5	-8.1	-7.2	PASS
163.84	29.8	27.1	43.5	-13.7	-16.4	PASS
180.00	26.9	29.0	43.5	-16.6	-14.5	PASS
196.60	27.1	30.1	43.5	-16.4	-13.4	PASS
200.00	26.0	30.1	43.5	-17.5	-13.4	PASS
208.65	26.2	27.5	43.5	-17.3	-16.0	PASS
210.00	26.7	27.8	43.5	-16.8	-15.7	PASS
215.90	29.9	28.3	43.5	-13.6	-15.2	PASS
210.26	27.6	27.1	43.5	-15.9	-16.4	PASS
229.38	27.7	27.8	46.0	-18.3	-18.2	PASS
240.06	28.9	30.1	46.0	-17.1	-15.9	PASS
262.14	32.2	32.9	46.0	-13.8	-13.1	PASS
270.00	31.8	31.4	46.0	-14.2	-14.6	PASS
294.91	26.6	31.0	46.0	-19.4	-15.0	PASS
311.92	21.5	27.5	46.0	-24.5	-18.5	PASS
327.68	22.7	30.7	46.0	-23.3	-15.3	PASS
330.00	23.6	32.7	46.0	-22.4	-13.3	PASS
360.40	25.5	28.3	46.0	-20.5	-17.7	PASS
390.00	42.0	39.3	46.0	-4.0	-6.7	PASS
393.22	45.8	36.1	46.0	-0.2	-9.9	PASS

Table 3



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
420.00	28.8	<<	46.0	-17.2	n.a.	PASS
425.98	27.7	<<	46.0	-18.3	n.a.	PASS
450.00	30.0	<<	46.0	-16.0	n.a.	PASS
458.75	31.0	<<	46.0	-15.0	n.a.	PASS
467.75	30.2	<<	46.0	-15.8	n.a.	PASS
433.91	63.7	62.8	80.8	-17.1	-18.0	PASS
867.82	43.7	46.3	61.6	-17.9	-15.3	PASS
524.29	32.7	<<	46.0	-13.3	n.a.	PASS

Table 3: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in table 3.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 3 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature:

Test engineer: J. Schuurmans

Date : 26 January 26, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.1.4 Radiated field strength measurements, configuration II, active mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
82.84	21.0	<<	40.0	-19.0	n.a.	PASS
90.00	23.7	<<	43.5	-19.8	n.a.	PASS
143.26	30.4	26.4	43.5	-13.1	-17.1	PASS
150.00	35.2	36.1	43.5	-8.3	-7.4	PASS
163.84	29.0	25.1	43.5	-14.5	-18.4	PASS
196.61	28.6	21.1	43.5	-14.9	-22.4	PASS
215.90	32.0	31.4	43.5	-11.5	-12.1	PASS
262.14	33.1	31.3	46.0	-12.9	-14.7	PASS
270.00	32.1	31.5	46.0	-13.9	-14.5	PASS
330.00	24.7	32.1	46.0	-21.3	-13.9	PASS
390.00	42.2	36.3	46.0	-3.8	-9.7	PASS
393.22	45.8	37.9	46.0	-0.2	-8.1	PASS
753.66	36.3	34.7	46.0	-9.7	-11.3	PASS
433.91	63.9	62.8	80.8	-16.9	-18	PASS
867.82	44.3	45.3	61.6	-17.3	-16.3	PASS

Table 4: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 4.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 4 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means the alarm is triggered (alarm sounds)
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature: 

Test engineer: J. Schuurmans

Date :26January , 2004



3.1.5 Radiated field strength measurements, configuration III, passive mode.


Frequency (MHz)	Measurement results dB(μV)/m @ 3 meters Quasi-peak		Limits dB(μV)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
82.84	21.8	12.3	40.0	-18.2	-27.7	PASS
90.00	27.6	21.2	43.5	-15.9	-22.3	PASS
171.59	18.1	<<	43.5	-25.4	n.a.	PASS
180.00	23.2	24.1	43.5	-20.3	-19.4	PASS
196.60	25.7	21.2	43.5	-17.8	-22.3	PASS
200.00	24.6	24.6	43.5	-18.9	-18.9	PASS
210.00	21.6	21.5	43.5	-21.9	-22.0	PASS
216.50	29.6	26.7	46.0	-16.4	-19.3	PASS
229.38	26.6	27.0	46.0	-19.4	-19.0	PASS
294.91	23.2	28.2	46.0	-22.8	-17.8	PASS
311.30	25.9	21.7	46.0	-20.1	-24.3	PASS
327.68	27.7	27.2	46.0	-18.3	-18.8	PASS
330.09	28.4	25.3	46.0	-17.6	-20.7	PASS
360.10	26.9	27.8	46.0	-19.1	-18.2	PASS
390.00	31.0	29.0	46.0	-15.0	-17.0	PASS
420.12	30.4	27.2	46.0	-15.6	-18.8	PASS
425.98	34.1	32.2	46.0	-11.9	-13.8	PASS
462.75	35.5	33.2	46.0	-10.5	-12.8	PASS
467.75	33.9	33.6	46.0	-12.1	-12.4	PASS
491.52	33.8	28.1	46.0	-12.2	-17.9	PASS
524.29	41.8	32.9	46.0	-4.2	-13.1	PASS
557.06	30.5	<<	46.0	-15.5	n.a.	PASS
622.59	31.9	<<	46.0	-14.1	n.a.	PASS
753.66	39.4	33.9	46.0	-6.6	-12.1	PASS
819.20	34.4	32.9	46.0	-11.6	-13.1	PASS
884.73	37.7	34.2	46.0	-8.3	-11.8	PASS

Table 5: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 5.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 5 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).

Signature: 

Test engineer: J. Schuurmans

Date : January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.1.6 Radiated field strength measurements, configuration, III, active mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
196.60	26.0	22.6	43.5	-17.5	-20.9	PASS
216.50	27.9	29.3	46.0	-18.1	-16.7	PASS
229.38	26.6	28.7	46.0	-19.4	-17.3	PASS
390.00	30.5	29.0	46.0	-15.5	-17.0	PASS
425.98	38.5	31.1	46.0	-7.5	-14.9	PASS
462.15	40.1	33.7	46.0	-5.9	-12.3	PASS
467.75	41.3	35.1	46.0	-4.7	-10.9	PASS
524.29	45.3	37.2	46.0	-0.7	-8.8	PASS
622.59	33.9	<<	46.0	-12.1	n.a.	PASS
753.66	38.9	33.6	46.0	-7.1	-12.4	PASS
819.20	35.2	<<	46.0	-10.8	n.a.	PASS
884.73	36.9	33.3	54.0	-17.1	-20.7	PASS

Table 6: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 6.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 6 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means the alarm is triggered (alarm sounds).

Signature:

Test engineer: J. Schuurmans

Date : 23 January , 2004



3.1.7 Radiated field strength measurements, configuration VI, passive mode.


Frequency (MHz)	Measurement results dB(μV)/m @ 3 meters Quasi-peak		Limits dB(μV)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
31.86	22.5	<<	40.0	-17.5	n.a.	PASS
43.49	18.9	<<	40.0	-21.1	n.a.	PASS
60.00	21.2	18.7	40.0	-18.8	-21.3	PASS
96.24	23.9	<<	43.5	-19.6	n.a.	PASS
97.97	26.4	15.9	43.5	-17.1	-27.6	PASS
120.00	22.9	<<	43.5	-20.6	n.a.	PASS
135.04	17.2	<<	43.5	-26.4	n.a.	PASS
143.26	24.4	17.4	43.5	-19.1	-26.1	PASS
180.08	26.3	19.7	43.5	-17.2	-23.8	PASS
201.56	30.4	18.3	43.5	-13.1	-25.2	PASS
210.17	28.9	18.1	43.5	-14.6	-25.4	PASS
216.84	31.3	15.9	46.0	-14.7	-30.1	PASS
294.10	27.4	25.5	46.0	-18.6	-20.5	PASS
311.29	29.0	25.5	46.0	-17.0	-20.5	PASS
327.68	26.9	29.4	46.0	-19.1	-16.6	PASS
330.21	29.8	24.8	46.0	-16.2	-21.2	PASS
360.45	29.1	22.1	46.0	-16.9	-23.9	PASS
458.75	28.1	24.7	46.0	-17.9	-21.3	PASS
491.52	31.5	27.6	46.0	-14.5	-18.4	PASS
508.28	35.8	27.8	46.0	-10.2	-18.2	PASS
510.18	43.0	29.2	46.0	-3.0	-16.8	PASS
524.29	40.2	26.9	46.0	-5.8	-19.1	PASS
537.02	43.0	30.3	46.0	-3.0	-15.7	PASS
548.86	37.2	28.1	46.0	-8.8	-17.9	PASS

Table 7: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 7.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 7 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).

Signature: 

Test engineer: J. Schuurmans

Date : January 29, 2004



3.1.8 Radiated field strength measurements, configuration VI, active mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
31.86	22.4	<<	40.0	-17.6	n.a.	PASS
43.49	22.9	<<	40.0	-17.1	n.a.	PASS
60.00	25.7	15.7	40.0	-14.3	-24.3	PASS
64.68	20.4	13.1	40.0	-19.6	-26.9	PASS
180.08	25.2	16.7	43.5	-18.3	-26.8	PASS
210.17	26.8	18.8	43.5	-16.7	-24.7	PASS
311.29	27.6	23.0	46.0	-18.4	-23.0	PASS
327.68	27.2	27.6	46.0	-18.8	-18.4	PASS
330.21	27.3	23.6	46.0	-18.7	-22.4	PASS
458.75	41.2	33.6	46.0	-4.8	-12.4	PASS
491.52	35.1	28.4	46.0	-10.9	-17.6	PASS
508.28	32.8	<<	46.0	-13.2	n.a.	PASS
510.18	39.2	29.0	46.0	-6.8	-17.0	PASS
524.29	36.4	<<	46.0	-9.6	n.a.	PASS
537.02	36.7	30.7	46.0	-9.3	-15.3	PASS
548.86	30.1	<<	46.0	-15.9	n.a.	PASS

Table 8: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 8.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 8 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means that the system is in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date : January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.1.9 Radiated field strength measurements, configuration VII, passive mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
208.00	23.7	<<	43.5	-19.8	n.a.	PASS
327.68	30.1	23.2	46.0	-15.9	-22.8	PASS
458.00	30.1	<<	46.0	-15.9	n.a.	PASS
480.43	29.3	27.7	46.0	-16.7	-18.3	PASS
520.10	39.8	37.8	46.0	-6.2	-8.2	PASS
491.52	39.5	<<	46.0	-6.5	n.a.	PASS
569.96	31.2	<<	46.0	-14.8	n.a.	PASS
589.82	33.5	28.8	46.0	-12.5	-17.2	PASS
622.59	32.0	<<	46.0	-14.0	n.a.	PASS
630.05	32.8	<<	46.0	-13.2	n.a.	PASS
720.89	38.1	<<	46.0	-7.9	n.a.	PASS
753.66	45.7	34.5	46.0	-0.3	-11.5	PASS

Table 9: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 9.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 9 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).

Signature:

Test engineer: H.J. Pieters

Date : January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.1.10 Radiated field strength measurements, configuration VII, active mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
249.90	24.1	21.1	46.0	-21.9	-24.9	PASS
458.00	27.2	29.6	46.0	-18.8	-16.4	PASS
491.52	36.1	26.3	46.0	-9.9	-19.7	PASS
520.10	30.2	<<	46.0	-15.8	n.a.	PASS
569.96	37.0	<<	46.0	-9.0	n.a.	PASS
589.82	31.3	27.8	46.0	-14.7	-18.2	PASS
622.59	29.6	<<	46.0	-16.4	n.a.	PASS
630.05	29.8	<<	46.0	-16.2	n.a.	PASS
753.66	33.9	<<	46.0	-12.1	n.a.	PASS

Table 10: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 10.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 10 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means that the system is in alarm mode.

Signature:

Test engineer: H.J. Pieters

Date : January 23, 2004



3.1.11 Radiated field strength measurements, configuration VIII, passive mode.


Frequency (MHz)	Measurement results dB(μV)/m @ 3 meters Quasi-peak		Limits dB(μV)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
120.00	26.7	22.7	43.5	-16.8	-20.8	PASS
150.00	<<	32.5	43.5	n.a.	-11.0	PASS
163.84	23.6	30.8	43.5	-19.9	-12.7	PASS
177.00	<<	31.4	43.5	n.a.	-12.1	PASS
180.00	27.3	39.8	43.5	-16.2	-3.7	PASS
193.58	25.6	36.6	43.5	-17.9	-6.9	PASS
196.61	29.0	35.5	43.5	-14.5	-8.0	PASS
210.00	29.5	39.4	43.5	-14.0	-4.1	PASS
229.38	26.7	38.1	46.0	-19.3	-7.9	PASS
240.00	31.4	33.2	46.0	-14.6	-12.8	PASS
262.14	32.9	31.1	46.0	-13.1	-14.9	PASS
270.00	28.0	38.4	46.0	-18.0	-7.6	PASS
294.91	31.1	35.5	46.0	-14.9	-10.5	PASS
300.00	32.1	35.6	46.0	-13.9	-10.4	PASS
327.68	39.9	31.1	46.0	-6.1	-14.9	PASS
330.00	40.8	36.8	46.0	-5.2	-9.2	PASS
360.00	34.0	39.5	46.0	-12.0	-6.5	PASS
390.00	35.6	41.2	46.0	-10.4	-4.8	PASS
420.00	32.2	39.3	46.0	-13.8	-6.7	PASS
425.98	36.0	35.4	46.0	-10.0	-10.6	PASS
433.91	65.9	59.6	80.8	14.9	-21.2	PASS
450.00	<<	37.3	46.0	n.a.	-8.7	PASS
458.75	41.1	37.4	46.0	-4.9	-8.6	PASS
491.52	40.3	40.7	46.0	-5.7	-5.3	PASS
524.29	31.7	34.7	46.0	-14.3	-11.3	PASS
867.82	47.6	41.3	61.6	-14.0	-20.3	PASS

Table 11: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 11.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 11 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature: 

Test engineer: J. Schuurmans



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

Date : January 23, 2004

3.1.12 Radiated field strength measurements, configuration VIII, active mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
120.00	26.7	22.7	43.5	-16.8	-20.8	PASS
150.00	<<	32.5	43.5	n.a.	-11.0	PASS
163.84	23.6	30.8	43.5	-19.9	-12.7	PASS
177.00	<<	31.4	43.5	n.a.	-12.1	PASS
180.00	27.3	39.8	43.5	-16.2	-3.7	PASS
193.58	25.6	35.6	43.5	-17.9	-7.9	PASS
196.61	29.0	36.6	43.5	-14.5	-6.9	PASS
210.00	29.5	40.4	43.5	-14.0	-3.1	PASS
229.38	26.7	38.1	46.0	-19.3	-7.9	PASS
240.00	31.4	33.2	46.0	-14.6	-12.8	PASS
262.14	32.9	31.1	46.0	-13.1	-14.9	PASS
270.00	28.0	39.3	46.0	-18.0	-6.7	PASS
294.91	31.1	36.1	46.0	-14.9	-9.9	PASS

Table 12



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4


Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
300.00	32.1	36.1	46.0	-13.9	-9.9	PASS
327.68	39.9	36.8	46.0	-6.1	-9.2	PASS
330.00	40.8	36.8	46.0	-5.2	-9.2	PASS
360.00	34.0	39.5	46.0	-12.0	-6.5	PASS
390.00	35.6	41.2	46.0	-10.4	-4.8	PASS
420.00	32.2	39.3	46.0	-13.8	-6.7	PASS
425.98	36.0	35.4	46.0	-10.0	-10.6	PASS
433.91	65.9	59.6	80.8	-14.9	-21.2	PASS
458.75	41.1	37.4	46.0	-4.9	-8.6	PASS
491.52	40.3	40.7	46.0	-5.7	-5.3	PASS
524.29	31.7	34.7	46.0	-14.3	-11.3	PASS
867.82	47.6	41.3	61.9	-14.3	-20.6	PASS

Table 12: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in table 12.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 12 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means that the system is in alarm mode.
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature: 

Test engineer: J. Schuurmans

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.1.13 Radiated field strength measurements, configuration XIV, passive mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
30.00	25.6	<<	40.0	-14.4	n.a.	PASS
35.85	23.5	<<	40.0	-16.5	n.a.	PASS
60.00	22.7	13.2	40.0	-17.3	-26.8	PASS
120.00	28.2	21.7	43.5	-15.3	-21.8	PASS
150.00	26.3	35.3	43.5	-17.2	-8.2	PASS
163.84	23.3	29.9	43.5	-20.2	-13.6	PASS
177.00	26.7	32.7	43.5	-16.8	-10.8	PASS
180.03	42.4	41.5	43.5	-1.1	-2.0	PASS
193.58	42.1	42.6	43.5	-1.4	-0.9	PASS
196.61	41.8	41.3	43.5	-1.7	-2.2	PASS
210.00	36.1	40.1	43.5	-7.4	-3.4	PASS
229.38	33.4	35.5	46.0	-12.6	-10.5	PASS
232.70	30.7	42.9	46.0	-15.3	-3.1	PASS
240.00	28.2	44.2	46.0	-17.8	-1.8	PASS
270.00	29.5	43.1	46.0	-16.5	-2.9	PASS
270.87	29.1	37.5	46.0	-16.9	-8.5	PASS
294.91	30.3	38.7	46.0	-15.7	-7.3	PASS

Table 13



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
300.00	28.3	37.7	46.0	-17.7	-8.3	PASS
327.68	26.9	32.0	46.0	-19.1	-14.0	PASS
330.00	29.0	35.8	46.0	-17.0	-10.2	PASS
425.98	37.1	35.4	46.0	-8.9	-10.6	PASS
433.91	61.0	61.4	80.8	-19.8	-19.4	PASS
450.00	38.1	37.8	46.0	-7.9	-8.2	PASS
458.75	37.0	36.0	46.0	-9.0	-10.0	PASS
491.52	33.7	36.7	46.0	-12.3	-9.3	PASS
510.00	38.0	40.7	46.0	-8.0	-5.3	PASS
867.82	43.8	41.3	61.6	-17.8	-20.3	PASS

Table 13: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in table 13.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 13 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature:

Test engineer: J. Schuurmans

Date 13 January, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.1.14 Radiated field strength measurements, configuration XIV, active mode.

Frequency (MHz)	Measurement results dB(μV)/m @ 3 meters Quasi-peak		Limits dB(μV)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
No emissions higher or other than in passive mode were found						

Table 14: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 14.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 14 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means that the system is in alarm mode.
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature: 

Test engineer: J. Schuurmans

Date January 13, 2004



3.1.15 Radiated field strength measurements, configuration XV, passive mode.


Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
208.00	23.7	<<	43.5	-19.8	n.a.	PASS
327.68	30.1	23.2	46.0	-15.9	-22.8	PASS
458.00	30.1	<<	46.0	-15.9	n.a.	PASS
480.43	29.3	27.7	46.0	-16.7	-18.3	PASS
520.10	39.8	37.8	46.0	-6.2	-8.2	PASS
491.52	39.5	<<	46.0	-6.5	n.a.	PASS
569.96	31.2	<<	46.0	-14.8	n.a.	PASS
589.82	33.5	28.8	46.0	-12.5	-17.2	PASS
622.59	32.0	<<	46.0	-14.0	n.a.	PASS
630.05	32.8	<<	46.0	-13.2	n.a.	PASS
720.89	38.1	<<	46.0	-7.9	n.a.	PASS
753.66	45.7	34.5	46.0	-0.3	-11.5	PASS

Table 15: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 15.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 15 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).

Signature: 

Test engineer: J. Schuurmans

Date February 8, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.1.16 Radiated field strength measurements, configuration XV, active mode.


Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
208.00	23.7	<<	43.5	-19.8	n.a.	PASS
327.68	30.1	23.2	46.0	-15.9	-22.8	PASS
458.00	30.1	<<	46.0	-15.9	n.a.	PASS
480.43	29.3	27.7	46.0	-16.7	-18.3	PASS
520.10	39.8	37.8	46.0	-6.2	-8.2	PASS
491.52	39.5	<<	46.0	-6.5	n.a.	PASS
569.96	31.2	<<	46.0	-14.8	n.a.	PASS
589.82	33.5	28.8	46.0	-12.5	-17.2	PASS
622.59	32.0	<<	46.0	-14.0	n.a.	PASS
630.05	32.8	<<	46.0	-13.2	n.a.	PASS
720.89	38.1	<<	46.0	-7.9	n.a.	PASS
753.66	45.7	34.5	46.0	-0.3	-11.5	PASS

Table 16: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 16.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 16 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means that the system is in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date February 8 , 2004



3.1.17 Radiated field strength measurements, configuration XVI, passive mode


Frequency (MHz)	Measurement results dB(μV)/m @ 3 meters Quasi-peak		Limits dB(μV)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
90.00	29.8	27.3	43.5	-13.7	-16.2	PASS
193.58	25.0	28.5	43.5	-18.5	-15.0	PASS
196.61	26.3	31.2	43.5	-17.2	-12.3	PASS
180.00	20.3	33.6	43.5	-23.2	-9.9	PASS
210.00	23.3	31.5	43.5	-20.2	-12.0	PASS
229.38	23.3	28.6	46.0	-22.7	-17.4	PASS
330.00	30.0	33.2	46.0	-16.0	-12.8	PASS
360.00	29.0	37.1	46.0	-17.0	-8.9	PASS
390.00	34.0	39.2	46.0	-12.0	-6.8	PASS
425.98	22.1	34.1	46.0	-23.9	-11.9	PASS
433.98	65.4	64.9	80.8	-15.4	-15.9	PASS
450.00	33.5	32.2	46.0	-12.5	-13.8	PASS
458.73	33.1	33.1	46.0	-12.9	-12.9	PASS
867.82	44.7	44.7	61.6	-16.9	-16.9	PASS

Table 17: radiated emission passive mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 17.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 17 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Passive mode means that the system is standby (alarm is off).
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature: 

Test engineer: J. Schuurmans

Date February 8, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.1.18 Radiated field strength measurements, configuration XVI, active mode.

Frequency (MHz)	Measurement results dB(μ V)/m @ 3 meters Quasi-peak		Limits dB(μ V)/m @ 3 meters Quasi-peak	Margin (dB) Quasi-peak		Result
	Vertical	Horizontal		Vertical	Horizontal	
90.00	32.1	25.5	43.5	-11.4	-18.0	PASS
193.58	25.0	28.5	43.5	-18.5	-15.0	PASS
196.61	26.3	31.2	43.5	-17.2	-12.3	PASS
180.00	20.3	32.3	43.5	-23.2	-11.2	PASS
210.00	23.3	30.8	43.5	-20.2	-12.7	PASS
229.38	23.3	28.6	46.0	-22.7	-17.4	PASS
330.00	30.0	33.2	46.0	-16.0	-12.8	PASS
360.00	29.0	37.1	46.0	-17.0	-8.9	PASS
390.00	33.0	35.9	46.0	-13.0	-10.1	PASS
425.98	22.1	34.1	46.0	-23.9	-11.9	PASS
433.98	65.4	64.9	80.8	-15.4	-15.9	PASS
450.00	28.8	32.2	46.0	-17.2	-13.8	PASS
458.73	33.1	33.1	46.0	-12.9	-12.9	PASS
867.82	44.7	44.7	61.6	-16.9	-16.9	PASS

Table 18: radiated emission active mode

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205, 15.209 and 15.223 (a) and 15.231 (a)(4), (b), with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 18.

Notes:

1. Field strength values of radiated emissions at frequencies not listed in table 18 are more than 20 dB below the applicable limit.
2. n.a. means not applicable.
3. << means no emission above noise floor.
4. Active mode means the alarm is triggered (alarm sounds).
5. The pager transmitter (FCC ID: CGDPAGSLS) is set to transmit continuously for the purpose of the test. In normal operation the pager transmitter operates only under alarm conditions according 47 CFR Part 15.231 (a)(4).

Signature: 

Test engineer: J. Schuurmans

Date February 8, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2 Frequency range of 0.009-30 MHz, H-field

3.2.1 Radiated field strength measurements, configuration I, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06273	94.2	66	16.7	1	3.04	31.68
0.12546	43	27.5	16.5	1	0.21	25.6
0.18819	30	23	16.0	1	19.23	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 - 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 - 22.9 (30 m)
1.705 - 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	51.00	26.0	15.9	1	19.1 (30 m)	40 (30 m)
8.70	50.1	27.9	15.9	1	22.8 (30 m)	40 (30 m)
8.7 - 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 19: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 19.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 19 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature: 

Test engineer: J. Schuurmans

Date January 26, 2004



3.2.2 Radiated field strength measurements, configuration I, active mode.


Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06273	94.2	66.1	16.0	1	3.42	31.68
0.12546	43.5	27.4	16.0	1	-1.58	25.6
0.18819	30	23	16.0	1	19.23	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	28.90	10.80	15.9	1	10.2 (30 m)	40 (30 m)
8.70	29.9	11.9	15.9	1	11.4 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 20: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 20

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 20 are more than 20 dB below the applicable limit.
- 7) Active mode means that the system is in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 26, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.3 Radiated field strength measurements, configuration I, sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.5846	62.7	36.6	15.9	1	26.7	40 (30m)	n.a.
15.1686	7.5	5.3	15.9	1	<5	n.a.	30 (30m)
22.7533	4	2.6	15.9	1	<5	n.a.	30 (30m)
8.6958	62.3	38.2	15.9	1	32.1.	40 (30m)	n.a.
17.3719	<5	<5	15.9	1	<5	n.a.	30 (30m)
26.07	3.5	4	15.9	1	<5	n.a.	30 (30m)

Table 21: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 21.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 21 are more than 20 dB below the applicable limit.
- 7) Sweep stopped means the sweep is stopped at both high and low ends of the band of operation.

Signature: 

Test engineer: J. Schuurmans

Date January 26, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.4 Radiated field strength measurements, configuration II, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06273	99.2	70.8	16.70	1	7.27	31.68
0.12546	34.1	<<	16.50	1	n.a.	25.6
0.18819	29	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	49.6-	23.40	15.9	1	15.4 (30 m)	40 (30 m)
8.70	49.9	26.5	15.9	1	21.5(30 m)	40 (30 m)
8.7 –10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 22: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 22.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 22 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: J. Schuurmans

Date January 26, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.5 Radiated field strength measurements, configuration II, active mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06273	98.9	66.1	16.70	1	-9.9	31.68
0.12546	33.7	<<	16.50	1	n.a.	25.6
0.18819	42.2	23	16.00	1	-15.24	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	50.00	23.60	15.9	1	15.4 (30 m)	40 (30 m)
8.70	50	26.6	15.9	1	21.2 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 23: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in table 23.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 23 are more than 20 dB below the applicable limit.
- 7) Active mode means that the system is in alarm mode.

Signature:

Test engineer: J. Schuurmans

Date January 26, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.6 Radiated field strength measurements, of configuration II, sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.5846	62	35.9	15.9	1	28.0	40 (30m)	n.a.
15.1686	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.7533	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.6958	62.8	38.2	15.9	1	31.6	40(30m)	n.a.
17.3719	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.07	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 24: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 19.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 24 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature: 

Test engineer: J. Schuurmans

Date January 26, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.7 Radiated field strength measurements, configuration III, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06277	105	77	16.70	1	14.6	31.68
0.12554	54	32.9	16.50	1	-10.21	25.6
0.18831	47	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	60.00	34.30	15.9	1	26.8 (30 m)	40 (30 m)
8.70	59.4	34.4	15.9	1	27.5 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 25: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 25.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<, indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 25 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: J. Schuurmans

Date January 26, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.8 Radiated field strength measurements, configuration III, active mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06277	105	77	16.70	1	14.6	31.68
0.12554	54	32.9	16.50	1	-10.21	25.6
0.18831	47	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	60.10	34.30	15.9	1	26.6 (30 m)	40 (30 m)
8.70	59.4	34.2	15.9	1	27.1 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 26: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 26.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<, indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 26 are more than 20 dB below the applicable limit.
- 7) Active mode means the alarm is triggered (alarm sounds)

Signature:

Test engineer: J. Schuurmans

Date January , 2004



3.2.9 Radiated field strength measurements, of configuration III, sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.5846	73.1	47.3	15.9	1	39.7	40 (30m)	n.a.
15.1686	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.7533	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.6958	72.4	46.7	15.9	1	39.15	40 (30m)	n.a.
17.3719	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.07	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 27: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 27.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 27 are more than 20 dB below the applicable limit.
- 7) Sweeping stop means the sweep is stopped at both ends of the band of operation.

Signature: 

Test engineer: J. Schuurmans

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.2.10 Radiated field strength measurements, configuration VI, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06254	69.8	44.8	16.70	1	-9.12	31.68
0.125	<<	<<	16.50	1	n.a.	25.6
0.188	<<	<<	16.0	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	49.50	24.80	15.9	1	18.1 (30 m)	40 (30 m)
8.70	48.2	25.3	15.9	1	2.03(30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 28: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 28.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 28 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.11 Radiated field strength measurements, configuration VI, active mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.625	69.8	44.8	16.70	1	-9.2	31.68
0.125	<<	<<	16.50	1	n.a.	25.6
0.188	<<	<<	16.00	1	n.a.	22.1
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	49.50	24.80	15.9	1	18.2 (30 m)	40 (30 m)
8.70	48.2	25.3	15.9	1	20.3 (30 m)	40 (30 m)
8.7–10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 29: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 29

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 29 are more than 20 dB below the applicable limit.
- 7) Active mode means the alarm is triggered (alarm sounds)

Signature: 

Test engineer: J. Schuurmans

Date January , 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.12 Radiated field strength measurements, of configuration VI, sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.58	55.6	32.3	15.9	1	26.9	40 (30m)	n.a.
15.16	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.74	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.69001	62.8	37.5	15.9	1	30.3	40 (30m)	n.a.
17.38	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.07	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 30: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 30.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 30 are more than 20 dB below the applicable limit.
- 7) Sweep stopped means the sweep is stopped at both ends of the band of operation.

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.13 Radiated field strength measurements, configuration VII, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06254	60.8	36.3	16.70	1	-16.2	31.68
0.125	<<	<<	16.50	1	n.a.	25.6
0.188	<<	<<	16.0	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	53.6	29.4	15.9	1	23.2 (30 m)	40 (30 m)
8.70	51.6	29.3	15.9	1	24.8 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 31: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 31.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<, indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 31 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: H.J. Pieters

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.2.14 Radiated field strength measurements, configuration VII, active mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06277	105	77	16.70	1	14.6	31.68
0.12554	54	32.9	16.50	1	-10.21	25.6
0.18831	47	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	53.60	29.40	15.9	1	23.2 (30 m)	40 (30 m)
8.70	51.6	29.3	15.9	1	24.9 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 32: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 32.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<, indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 32 are more than 20 dB below the applicable limit.
- 7) Active mode means the alarm is triggered (alarm sounds)

Signature:

Test engineer: H.J. Pieters

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.15 Radiated field strength measurements, of configuration VII, sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.58	66.2	41.8	15.9	1	35.4	40 (30m)	n.a.
15.16	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.74	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.69001	64.9	40.3	15.9	1	33.7	40 (30m)	n.a.
17.38	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.07	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 33: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 33.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 33 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: H.J. Pieters

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.2.16 Radiated field strength measurements, configuration VIII, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06277	105	77	16.70	1	14.6	31.68
0.12554	54	32.9	16.50	1	-10.21	25.6
0.18831	47	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	60.70	35.10	15.9	1	27.6 (30 m)	40 (30 m)
8.70	60.2	35.4	15.9	1	28.7 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 34: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 34.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 34 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: J. Schuurmans

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.17 Radiated field strength measurements, configuration VIII, active mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06277	105	77	16.70	1	14.6	31.68
0.12554	54	32.9	16.50	1	-10.21	25.6
0.18831	47	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	60.70	35.10	15.9	1	27.6 (30 m)	40 (30 m)
8.70	60.2	35.4	15.9	1	28.7 (30 m)	40 (30 m)
8.7 –10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 35: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 35.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 35 are more than 20 dB below the applicable limit.
- 7) Sweeping active means the system is in alarm mode.

Signature:

Test engineer: J. Schuurmans

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.18 Radiated field strength measurements, configuration VIII, sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.58	72.3	45.2	15.9	1	36.4	40 (30m)	n.a.
15.16	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.74	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.69001	72.3	47.5	15.9	1	36.8	40 (30m)	n.a.
17.38	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.07	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 36: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 36.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 36 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature: 

Test engineer: J. Schuurmans

Date January 23, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.2.19 Radiated field strength measurements, configuration XIV, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06277	105	77	16.7	1	14.6	31.68
0.12554	54	32.9	16.5	1	-10.21	25.6
0.18831	47	<<	16.0	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	60.7	35.0	15.9	1	27.5 (30 m)	40 (30 m)
8.70	60.2	35.4	15.9	1	28.7 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 37: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 37.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 37 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: J. Schuurmans

Date January 13, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

3.2.20 Radiated field strength measurements, configuration XIV, active mode.


Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
0.06277	105	77	16.70	1	14.6	31.68
0.12554	54	32.9	16.50	1	-10.21	25.6
0.18831	47	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	60.8	35.0	15.9	1	27.4 (30 m)	40 (30 m)
8.70	60.2	35.4	15.9	1	28.7 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 38: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 38

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 38 are more than 20 dB below the applicable limit.
- 7) Sweeping active means the system is in alarm mode

Signature: 

Test engineer: J. Schuurmans

Date January 13, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.21 Radiated field strength measurements, configuration XIV sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.59.148	72.8	46.9	15.9	1	39.2	40 (30m)	n.a.
15.183	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.7744	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.71318	75	45.4	15.9	1	36.4	40 (30m)	n.a.
17.4264	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.1395	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 39: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 39.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 39 are more than 20 dB below the applicable limit.
- 7) Sweeping stopped means the sweep is stopped at both ends of the band of operation.

Signature: 

Test engineer: J. Schuurmans

Date January 13, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.22 Radiated field strength measurements, configuration XV, passive mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
62.77	101.9	74.9	16.7	1	17.9	31.7
125.54	<<	<<	16.5	1	n.a.	25.6
188.31	<<	<<	16.0	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	53.8	29.2	15.9	1	22.7 (30 m)	40 (30 m)
8.70	53	30	15.9	1	24.9 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 40: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 40.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 40 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature:

Test engineer: J. Schuurmans

Date February 8, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.23 Radiated field strength measurements, configuration XV, active mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
62.77	102.2	75.1	16.70	1	15.24	31.68
125.54	<<	<<	16.50	1	n.a.	25.6
188.31	<<	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	54.00	29.20	15.9	1	22.5 (30 m)	40 (30 m)
8.70	53	29.9	15.9	1	24.7 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 41: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 41.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 41 are more than 20 dB below the applicable limit.
- 7) Sweeping active means the system is in alarm mode.

Signature:

Test engineer: J. Schuurmans

Date February 8, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.24 Radiated field strength measurements, configuration XV sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.5948	66.2	41.8	15.9	1	35.4	40 (30m)	n.a.
15.183	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.7744	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.71318	65.7	43.1	15.9	1	38.4	40 (30m)	n.a.
17.4264	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.1395	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 42: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 42.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 42 are more than 20 dB below the applicable limit.
- 7) Sweep stopped means that the sweep is stopped at both ends of the sweep range.

Signature: 

Test engineer: J. Schuurmans

Date February 8, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.25 Radiated field strength measurements, configuration XVI, passive mode.


Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
62.77	101.9	74.9	16.70	1	15.33	31.68
125.54	<<	<<	16.50	1	n.a.	25.6
188.31	<<	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	49.20	23.20	15.9	1	15.4 (30 m)	40 (30 m)
8.70	50.7	27.4	15.9	1	22.0 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 43: Sweeping passive

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 43.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 43 are more than 20 dB below the applicable limit.
- 7) Sweeping passive means the system is standby (alarm is off).

Signature: 

Test engineer: J. Schuurmans

Date January 14, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.26 Radiated field strength measurements, configuration XVI, active mode.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters				
62.77	102.3	74.8	16.70	1	11.6	31.68
125.54	33.7	<<	16.50	1	n.a.	25.6
188.31	42.2	<<	16.00	1	n.a.	22.1
0.009 - 0.490	<<	<<	16.0	1	<10.0	48.5 – 13.8 (300 m)
0.490 - 1.705	<<	<<	16.0	1	<10.0	33.8 – 22.9 (30 m)
1.705 – 7.4	<<	<<	15.9	1	<10.0	30.0 (30 m)
7.57	49.20	23.20	15.9	1	15.4 (30 m)	40 (30 m)
8.70	50.7	27.4	15.9	1	22.0 (30 m)	40 (30 m)
8.7 – 10	<<	<<	15.9	1	<10.0	40 (30 m)
10-30	<<	<<	15.9	1	<10.0	30 (30 m)

Table 44: Sweeping active

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 44.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<, indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 44 are more than 20 dB below the applicable limit.
- 7) Active mode means the alarm is triggered (alarm sounds)

Signature:

Test engineer: J. Schuurmans

Date January 14, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

3.2.27 Radiated field strength measurements, configuration XVI, sweep stopped.

Frequency (MHz)	Measurement results dB μ V Quasi-peak		Antenna factor dB	Cable loss dB	Measurement results dB(μ V)/m Quasi-peak (calculated)	Limits Part 15.223 dB(μ V)/m (calculated)	Limits Part 15.209 dB(μ V)/m (calculated)
	3 meters	10 meters					
7.58	61.5	35.2	15.9	1	27.1	40 (30m)	n.a.
15.17	<5	<5	15.9	1	<5	n.a.	30 (30m)
22.7744	<5	<5	15.9	1	<5	n.a.	30 (30m)
8.7	62.9	39.7	15.9	1	34.3	40 (30m)	n.a.
17.4	<5	<0	15.9	1	<5	n.a.	30 (30m)
26.1	<5	<0	15.9	1	<5	n.a.	30 (30m)

Table 45: Sweep stopped

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15, sections 15.205 and 15.209 and 15.223, with the EUT operating in continuous transmit mode on 8.2 MHz +/- 700 kHz, are depicted in Table 45.

Notes:

- 1) A total work out of the calculated measurement result can be found in the Appendix 1.
- 2) Frequency range: 9-90 kHz Average detector used during measurements.
- 3) Frequency range: 110-490 kHz Average detector used during measurements.
- 4) The radiated field strengths were measured at a distance of 3 and 10 meters.
- 5) <<. indicates that no field strength values could be measured on the listed frequencies or in the listed frequency range.
- 6) Field strength values of radiated emissions at frequencies not listed in table 45 are more than 20 dB below the applicable limit.
- 7) Sweeping stopped means that the sweep is stopped at the both ends of the sweep range.

Signature: 

Test engineer: J. Schuurmans

Date January 14, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4 Conducted emission data.

4.1 Conducted emission, Configuration I, passive mode.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	40.0	9.1	40.7	9.1	66.0	56.0	-26.0	-46.9	-25.3	-46.9	PASS
0.18	32.8	7.8	34.4	9.7	64.3	54.3	-31.5	-46.5	-29.9	-44.6	PASS
0.51	29.0	14.6	39.7	16.7	56.0	46.0	-27.0	-31.4	-16.3	-29.3	PASS
1.10	33.2	14.4	29.3	12.2	56.0	46.0	-22.8	-31.6	-26.7	-33.8	PASS
2.30	38.4	17.1	30.0	14.4	56.0	46.0	-17.6	-28.9	-26.0	-31.6	PASS
4.20	44.5	25.3	40.1	19.6	56.0	46.0	-11.5	-20.7	-15.9	-26.4	PASS
5.53	43.8	25.3	40.1	19.8	60.0	50.0	-16.2	-24.7	-19.9	-30.2	PASS
6.66	44.7	27.8	43.9	23.0	60.0	50.0	-15.3	-22.2	-16.1	-27.0	PASS
7.57	44.9	24.1	44.7	22.3	60.0	50.0	-15.1	-25.9	-15.3	-27.7	PASS
8.70	36.1	18.0	35.9	19.0	60.0	50.0	-23.9	-32.0	-24.1	-31.0	PASS
11.58	31.9	18.9	31.9	19.1	60.0	50.0	-28.1	-31.1	-28.1	-30.9	PASS
13.76	31.3	19.4	32.0	19.6	60.0	50.0	-28.7	-30.6	-28.0	-30.4	PASS
15.14	30.8	19.7	31.4	20.2	60.0	50.0	-29.2	-30.3	-28.6	-29.8	PASS
17.40	30.5	19.9	21.7	21.1	60.0	50.0	-29.5	-30.1	-38.4	-28.9	PASS
20.00	26.4	17.7	28.8	18.4	60.0	50.0	-33.6	-32.3	-31.2	-31.6	PASS
24.00	21.7	13.2	22.5	13.3	60.0	50.0	-38.3	-36.8	-37.5	-36.7	PASS
27.50	23.1	14.8	25.0	16.4	60.0	50.0	-36.9	-35.2	-35.0	-33.6	PASS
29.99	22.3	14.5	25.2	16.4	60.0	50.0	-37.7	-35.5	-34.8	-33.6	PASS

Table 46 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 46.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 46 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off)

Signature:

Test engineer: H.J. Pieters

Date January 28 , 2004



4.2 Conducted emission, Configuration I, active mode.

Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	40.3	9.0	40.9	9.0	66.0	56.0	-25.7	-47.0	-25.1	-47.0	PASS
0.18	34.0	8.0	35.1	9.5	64.3	54.3	-30.3	-46.3	-29.2	-44.8	PASS
0.51	29.6	17.7	30.1	17.9	56.0	46.0	-26.4	-28.3	-25.9	-28.1	PASS
1.10	29.6	11.2	23.9	10.6	56.0	46.0	-26.4	-34.8	-32.1	-35.4	PASS
2.30	32.4	14.0	37.8	15.0	56.0	46.0	-23.6	-32.0	-18.2	-31.0	PASS
4.20	42.2	23.7	42.3	22.2	56.0	46.0	-13.8	-22.3	-13.7	-23.8	PASS
5.53	40.0	26.2	42.7	25.1	60.0	50.0	-20.0	-23.8	-17.3	-24.9	PASS
6.66	44.0	27.7	41.8	23.0	60.0	50.0	-16.0	-22.3	-18.2	-27.0	PASS
7.57	44.8	25.0	44.9	22.8	60.0	50.0	-15.2	-25.0	-15.1	-27.2	PASS
8.70	36.3	17.4	36.1	17.9	60.0	50.0	-23.7	-32.6	-23.9	-32.1	PASS
11.58	31.9	18.8	32.2	18.9	60.0	50.0	-28.1	-31.2	-27.8	-31.1	PASS
13.76	31.6	19.3	31.6	19.8	60.0	50.0	-28.4	-30.7	-28.4	-30.2	PASS
15.14	31.2	19.9	31.7	20.6	60.0	50.0	-28.8	-30.1	-28.3	-29.4	PASS
17.40	30.9	20.0	32.1	21.3	60.0	50.0	-29.1	-30.0	-27.9	-28.7	PASS
20.00	28.6	17.8	27.7	17.9	60.0	50.0	-31.4	-32.2	-32.3	-32.1	PASS
24.00	22.2	13.4	22.5	13.4	60.0	50.0	-37.8	-36.6	-37.5	-36.6	PASS
27.50	23.6	14.9	24.8	16.4	60.0	50.0	-36.4	-35.1	-35.2	-33.6	PASS
29.99	22.1	14.9	23.9	16.1	60.0	50.0	-37.9	-35.1	-36.1	-33.9	PASS

Table 47 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 47.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 47 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode

Signature:

Test engineer: H.J. Pieters

Date January 28, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

4.3 Conducted emission, Configuration I, sweep stopped.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.57 (a)	57.3	38.3	57.6	38.6	60.0	50.0	-2.7	-11.7	-2.4	-11.4	PASS
15.12 (b)	30.2	20.9	32.3	21.5	60.0	50.0	-29.8	-29.1	-27.7	-28.5	PASS
22.69 (c)	21.6	13.5	23.4	15.3	60.0	50.0	-38.4	-36.5	-36.6	-34.7	PASS
8.64 (d)	51.4	32.8	51.6	32.2	60.0	50.0	-8.6	-17.2	-8.4	-17.8	PASS
17.28 (e)	30.7	20.4	31.9	21.0	60.0	50.0	-29.3	-29.6	-28.1	-29.0	PASS
25.93 (f)	22.9	14.0	23.2	14.0	60.0	50.0	-37.1	-36.0	-36.8	-36.0	PASS

Table 48 sweep stopped

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in Table 48.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 48 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).

- (a) means the sweep is stopped at the beginning of the range at the given frequency
- (b) second harmonic from a
- (c) third harmonic from a
- (d) means the sweep is stopped at the end of the sweep range at the given frequency
- (e) second harmonic from d
- (f) third harmonic from d

Signature:

Test engineer: H.J. Pieters

Date January 28, 2004



4.4 Conducted emission, Configuration II, passive mode.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	38.8	8.2	39.1	14.9	66.0	56.0	-27.2	-47.8	-26.9	-41.1	PASS
0.18	32.8	12.8	33.1	12.8	64.5	54.5	-31.7	-41.7	-31.4	-41.7	PASS
0.47	28.2	11.9	28.1	20.1	56.5	46.5	-28.3	-34.6	-28.4	-26.4	PASS
1.00	27.0	12.2	30.2	18.5	56.0	46.0	-29.0	-33.8	-25.8	-27.5	PASS
1.65	37.3	20.9	36.9	26.6	56.0	46.0	-18.7	-25.1	-19.1	-19.4	PASS
2.35	40.1	12.8	39.0	27.2	56.0	46.0	-15.9	-33.2	-17.0	-18.8	PASS
5.17	44.9	23.7	43.8	31.1	60.0	50.0	-15.1	-26.3	-16.2	-18.9	PASS
6.75	40.7	21.8	43.7	22.4	60.0	50.0	-19.3	-28.2	-16.3	-27.6	PASS
7.56	47.2	32.1	47.1	32.4	60.0	50.0	-12.8	-17.9	-12.9	-17.6	PASS
8.70	50.6	30.7	50.3	31.1	60.0	50.0	-9.4	-19.3	-9.7	-18.9	PASS
11.10	32.1	22.5	31.6	23.0	60.0	50.0	-27.9	-27.5	-28.4	-27.0	PASS
13.70	31.7	23.5	31.6	23.7	60.0	50.0	-28.3	-26.5	-28.4	-26.3	PASS
15.14	32.0	24.1	32.2	24.0	60.0	50.0	-28.0	-25.9	-27.8	-26.0	PASS
17.40	31.6	24.3	32.0	24.2	60.0	50.0	-28.4	-25.7	-28.0	-25.8	PASS
21.86	22.3	15.9	23.8	17.4	60.0	50.0	-37.7	-34.1	-36.2	-32.6	PASS
24.10	24.1	17.6	24.6	18.1	60.0	50.0	-35.9	-32.4	-35.4	-31.9	PASS
26.78	24.4	18.1	25.6	19.1	60.0	50.0	-35.6	-31.9	-34.4	-30.9	PASS
29.99	22.5	17.0	24.9	18.1	60.0	50.0	-37.5	-33.0	-35.1	-31.9	PASS

Table 49 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 49.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 49 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off).

Signature:

Test engineer: H.J. Pieters

Date January , 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.5 Conducted emission, Configuration II, active mode.

Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	39.0	14.6	39.3	11.8	66.0	56.0	-27.0	-41.4	-26.7	-44.2	PASS
0.18	33.3	12.0	32.8	12.0	64.3	54.3	-31.0	-42.3	-31.5	-42.3	PASS
0.51	28.7	22.0	28.2	20.7	56.0	46.0	-27.3	-24.0	-27.8	-25.3	PASS
1.10	32.4	20.1	30.5	18.9	56.0	46.0	-23.6	-25.9	-25.5	-27.1	PASS
2.30	33.7	20.0	33.8	19.9	56.0	46.0	-22.3	-26.0	-22.2	-26.1	PASS
4.20	36.2	21.8	35.4	23.9	56.0	46.0	-19.8	-24.2	-20.6	-22.1	PASS
5.53	44.8	32.1	41.4	30.2	60.0	50.0	-15.2	-17.9	-18.6	-19.8	PASS
6.66	41.9	31.2	44.1	33.9	60.0	50.0	-18.1	-18.8	-15.9	-16.1	PASS
7.57	47.7	32.4	48.0	31.4	60.0	50.0	-12.3	-17.6	-12.0	-18.6	PASS
8.70	47.4	31.2	50.7	31.2	60.0	50.0	-12.6	-18.8	-9.3	-18.8	PASS
11.58	50.6	22.6	31.6	23.0	60.0	50.0	-9.4	-27.4	-28.4	-27.0	PASS
13.76	32.0	23.4	31.3	23.3	60.0	50.0	-28.0	-26.6	-28.7	-26.7	PASS
15.14	31.8	24.2	32.1	23.8	60.0	50.0	-28.2	-25.8	-27.9	-26.2	PASS
17.40	31.8	24.1	32.6	24.2	60.0	50.0	-28.2	-25.9	-27.4	-25.8	PASS
20.00	24.6	18.3	24.6	18.9	60.0	50.0	-35.4	-31.7	-35.4	-31.1	PASS
24.00	23.6	17.6	24.6	18.0	60.0	50.0	-36.4	-32.4	-35.4	-32.0	PASS
27.50	23.9	18.0	25.9	18.5	60.0	50.0	-36.1	-32.0	-34.1	-31.5	PASS
29.99	22.7	17.1	23.7	17.0	60.0	50.0	-37.3	-32.9	-36.3	-33.0	PASS

Table 50 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 50.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 50 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature:

Test engineer: H.J. Pieters

Date January 28, 2004



4.6 Conducted emission, Configuration II, sweep stopped.

Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.57 (a)	53.4	46.0	22.6	16.4	60.0	50.0	-6.6	-4.0	-37.4	-33.6	PASS
15.12 (b)	31.6	23.9	30.4	24.3	60.0	50.0	-28.4	-26.1	-29.6	-25.7	PASS
22.69 (c)	21.8	16.4	21.9	16.9	60.0	50.0	-38.2	-33.6	-38.1	-33.1	PASS
7.57 (d)	53.4	46.0	22.6	16.4	60.0	50.0	-6.6	-4.0	-37.4	-33.6	PASS
15.12 (e)	31.6	23.9	30.4	24.3	60.0	50.0	-28.4	-26.1	-29.6	-25.7	PASS
22.69 (f)	21.8	16.4	21.9	16.9	60.0	50.0	-38.2	-33.6	-38.1	-33.1	PASS

Table 51 sweep stopped

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in table Table 51.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 51 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).
 - (a) means the sweep is stopped at the beginning of the range at the given frequency
 - (b) second harmonic from a
 - (c) third harmonic from a
 - (d) means the sweep is stopped at the end of the sweep range at the given frequency
 - (e) second harmonic from b
 - (f) third harmonic from b

Signature:

Test engineer: H.J. Pieters

Date January 28, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.7 Conducted emission, Configuration III, passive mode.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	38.5	8.7	29.4	8.7	66.0	56.0	-27.5	-47.3	-36.6	-47.3	PASS
0.26	31.7	28.7	31.7	28.7	61.5	51.5	-29.8	-22.8	-29.8	-22.8	PASS
0.30	32.1	26.7	32.4	26.6	60.2	50.2	-28.1	-23.5	-27.8	-23.6	PASS
0.53	30.6	18.3	31.0	16.0	56.0	46.0	-25.4	-27.7	-25.0	-30.0	PASS
0.96	32.7	13.5	32.0	13.2	56.0	46.0	-23.3	-32.5	-24.0	-32.8	PASS
1.78	37.9	18.3	35.8	16.8	56.0	46.0	-18.1	-27.7	-20.2	-29.2	PASS
2.44	40.3	19.4	40.6	20.7	56.0	46.0	-15.7	-26.6	-15.4	-25.3	PASS
3.28	44.4	24.5	52.4	22.1	56.0	46.0	-11.6	-21.5	-3.6	-23.9	PASS
5.24	44.7	23.6	44.9	26.7	60.0	50.0	-15.3	-26.4	-15.1	-23.3	PASS
7.57	46.4	23.6	47.5	24.6	60.0	50.0	-13.6	-26.4	-12.5	-25.4	PASS
8.70	50.4	20.7	50.3	20.2	60.0	50.0	-9.6	-29.3	-9.7	-29.8	PASS
15.14	31.0	20.1	30.9	20.6	60.0	50.0	-29.0	-29.9	-29.1	-29.4	PASS
17.40	30.6	20.4	31.2	20.8	60.0	50.0	-29.4	-29.6	-28.8	-29.2	PASS
22.71	23.5	14.7	24.5	15.6	60.0	50.0	-36.5	-35.3	-35.5	-34.4	PASS
26.10	23.1	14.7	23.8	15.8	60.0	50.0	-36.9	-35.3	-36.2	-34.2	PASS
29.99	22.1	14.4	23.3	16.0	60.0	50.0	-37.9	-35.6	-36.7	-34.0	PASS

Table 52 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in table Table 52.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 52 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off)

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.8 Conducted emission, Configuration III, active mode.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	39.3	8.7	38.7	8.7	66.0	56.0	-26.7	-47.3	-27.3	-47.3	PASS
0.26	31.6	28.7	31.5	28.3	61.5	51.5	-29.9	-22.8	-30.0	-23.2	PASS
0.30	32.0	27.2	32.0	27.2	60.2	50.2	-28.2	-23.0	-28.2	-23.0	PASS
0.53	28.9	17.4	30.4	17.4	56.0	46.0	-27.1	-28.6	-25.6	-28.6	PASS
0.96	32.2	13.7	31.1	13.3	56.0	46.0	-23.8	-32.3	-24.9	-32.7	PASS
1.78	37.0	17.6	36.8	18.0	56.0	46.0	-19.0	-28.4	-19.2	-28.0	PASS
2.44	40.2	21.4	41.3	22.1	56.0	46.0	-15.8	-24.6	-14.7	-23.9	PASS
3.28	44.0	22.6	43.2	21.6	56.0	46.0	-12.0	-23.4	-12.8	-24.4	PASS
5.24	41.6	22.3	44.3	26.0	60.0	50.0	-18.4	-27.7	-15.7	-24.0	PASS
7.57	46.4	22.5	47.0	22.9	60.0	50.0	-13.6	-27.5	-13.0	-27.1	PASS
8.70	50.4	19.2	50.9	20.2	60.0	50.0	-9.6	-30.8	-9.1	-29.8	PASS
15.14	30.9	19.9	31.3	20.3	60.0	50.0	-29.1	-30.1	-28.7	-29.7	PASS
17.40	31.1	20.7	31.1	21.2	60.0	50.0	-28.9	-29.3	-28.9	-28.8	PASS
22.71	23.7	14.7	25.2	15.6	60.0	50.0	-36.3	-35.3	-34.8	-34.4	PASS
26.10	23.3	14.6	23.8	15.1	60.0	50.0	-36.7	-35.4	-36.2	-34.9	PASS
29.99	21.8	14.3	22.8	15.1	60.0	50.0	-38.2	-35.7	-37.2	-34.9	PASS

Table 53 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 53.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 53 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

4.9 Conducted emission, Configuration III, sweep stopped.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.57 (a)	55.0	36.7	52.4	34.0	60.0	50.0	-5.0	-13.3	-7.6	-16.0	PASS
15.12 (b)	30.5	22.7	29.2	21.5	60.0	50.0	-29.5	-27.3	-30.8	-28.5	PASS
22.69 (c)	23.8	16.1	22.3	14.3	60.0	50.0	-36.2	-33.9	-37.7	-35.7	PASS
7.57 (d)	55.0	36.7	52.4	34.0	60.0	50.0	-5.0	-13.3	-7.6	-16.0	PASS
15.12 (e)	30.5	22.7	29.2	21.5	60.0	50.0	-29.5	-27.3	-30.8	-28.5	PASS
22.69 (f)	23.8	16.1	22.3	14.3	60.0	50.0	-36.2	-33.9	-37.7	-35.7	PASS

Table 54 sweep stopped mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in table Table 54.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 54 were found to be below 25 dB μ V on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).

- (a) means the sweep is stopped at the beginning of the range at the given frequency
- (b) second harmonic from a
- (c) third harmonic from a
- (d) means the sweep is stopped at the end of the sweep range at the given frequency
- (e) second harmonic from b
- (f) third harmonic from b

Signature:

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.10 Conducted emission, Configuration VI, passive mode.


Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	35.7	8.1	35.3	8.0	66.0	56.0	-30.3	-47.9	-30.7	-48.0	PASS
0.17	35.2	33.5	35.3	33.6	64.9	54.9	-29.7	-21.4	-29.6	-21.3	PASS
0.26	31.0	27.9	31.0	27.7	61.5	51.5	-30.5	-23.6	-30.5	-23.8	PASS
0.33	30.7	25.7	31.0	26.0	59.4	49.4	-28.7	-23.7	-28.4	-23.4	PASS
0.60	28.5	15.5	28.5	15.7	56.0	46.0	-27.5	-30.5	-27.5	-30.3	PASS
1.03	23.3	13.2	21.8	13.7	56.0	46.0	-32.7	-32.8	-34.2	-32.3	PASS
1.70	31.0	14.7	23.3	12.4	56.0	46.0	-25.0	-31.3	-32.7	-33.6	PASS
2.48	39.8	22.3	38.8	20.4	56.0	46.0	-16.2	-23.7	-17.2	-25.6	PASS
3.33	41.0	20.6	41.6	20.5	56.0	46.0	-15.0	-25.4	-14.4	-25.5	PASS
6.21	43.4	26.2	43.6	27.2	60.0	50.0	-16.6	-23.8	-16.4	-22.8	PASS
7.57	45.2	22.5	44.8	21.9	60.0	50.0	-14.8	-27.5	-15.2	-28.1	PASS
8.70	48.7	19.0	48.2	19.6	60.0	50.0	-11.3	-31.0	-11.8	-30.4	PASS
15.10	29.1	18.2	28.6	18.4	60.0	50.0	-30.9	-31.8	-31.4	-31.6	PASS
17.40	28.8	18.6	28.4	18.4	60.0	50.0	-31.2	-31.4	-31.6	-31.6	PASS
22.71	24.4	15.6	24.7	15.2	60.0	50.0	-35.6	-34.4	-35.3	-34.8	PASS
26.10	23.0	14.1	23.0	15.2	60.0	50.0	-37.0	-35.9	-37.0	-34.8	PASS
29.99	21.7	14.2	21.9	14.4	60.0	50.0	-38.3	-35.8	-38.1	-35.6	PASS

Table 55 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 55.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 55 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off)

Signature: 

Test engineer: J. Schuurmans

Date January , 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.11 Conducted emission, Configuration VI, active mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	35.7	7.9	24.3	7.9	66.0	56.0	-30.3	-48.1	-41.7	-48.1	PASS
0.17	35.2	33.5	25.7	33.2	64.9	54.9	-29.7	-21.4	-39.2	-21.7	PASS
0.26	30.9	27.7	31.0	28.0	61.5	51.5	-30.6	-23.8	-30.5	-23.5	PASS
0.33	31.3	23.6	31.5	23.8	59.4	49.4	-28.1	-25.8	-27.9	-25.6	PASS
0.60	27.7	15.7	30.6	15.5	56.0	46.0	-28.3	-30.3	-25.4	-30.5	PASS
1.03	31.4	14.7	32.4	15.3	56.0	46.0	-24.6	-31.3	-23.6	-30.7	PASS
1.70	35.1	6.8	36.1	17.6	56.0	46.0	-20.9	-39.2	-19.9	-28.4	PASS
2.48	37.9	17.1	38.8	16.2	56.0	46.0	-18.1	-28.9	-17.2	-29.8	PASS
3.33	42.0	20.8	42.4	20.2	56.0	46.0	-14.0	-25.2	-13.6	-25.8	PASS
6.21	42.1	23.4	43.2	24.9	60.0	50.0	-17.9	-26.6	-16.8	-25.1	PASS
7.57	45.0	21.6	45.2	21.1	60.0	50.0	-15.0	-28.4	-14.8	-28.9	PASS
8.70	48.1	19.0	47.9	17.9	60.0	50.0	-11.9	-31.0	-12.1	-32.1	PASS
15.10	29.5	18.4	29.6	18.9	60.0	50.0	-30.5	-31.6	-30.4	-31.1	PASS
17.40	28.4	18.6	29.5	18.8	60.0	50.0	-31.6	-31.4	-30.5	-31.2	PASS
22.71	24.8	15.8	25.1	15.9	60.0	50.0	-35.2	-34.2	-34.9	-34.1	PASS
26.10	23.5	14.9	23.8	15.0	60.0	50.0	-36.5	-35.1	-36.2	-35.0	PASS
29.99	21.9	14.2	22.8	14.9	60.0	50.0	-38.1	-35.8	-37.2	-35.1	PASS

Table 56 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 56.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 56 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

4.12 Conducted emission, Configuration VI, sweep stopped.

Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.57 (a)	55.1	34.4	53.6	34.3	60.0	50.0	-4.9	-15.6	-6.4	-15.7	PASS
15.12 (b)	27.6	18.9	30.4	21.0	60.0	50.0	-32.4	-31.1	-29.6	-29.0	PASS
22.69 (c)	21.8	13.8	27.2	17.4	60.0	50.0	-38.2	-36.2	-32.8	-32.6	PASS
7.57 (d)	48.4	33.3	50.9	34.0	60.0	50.0	-11.6	-16.7	-9.1	-16.0	PASS
15.12 (e)	31.5	21.3	31.4	20.4	60.0	50.0	-28.5	-28.7	-28.6	-29.6	PASS
22.69 (f)	23.8	16.0	23.9	16.2	60.0	50.0	-36.2	-34.0	-36.1	-33.8	PASS

Table 57 sweep stopped mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in table Table 57.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 57 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).
 - (a) means the sweep is stopped at the beginning of the range at the given frequency
 - (b) second harmonic from a
 - (c) third harmonic from a
 - (d) means the sweep is stopped at the end of the sweep range at the given frequency
 - (e) second harmonic from b
 - (f) third harmonic from b

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.13 Conducted emission, Configuration VII, passive mode.


Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	36.8	8.2	36.4	8.2	66.0	56.0	-29.2	-47.8	-29.6	-47.8	PASS
0.17	36.4	34.1	36.0	34.3	64.8	54.8	-28.4	-20.7	-28.8	-20.5	PASS
0.26	31.2	28.8	31.2	28.1	61.5	51.5	-30.3	-22.7	-30.3	-23.4	PASS
0.30	31.1	24.5	31.2	24.5	60.2	50.2	-29.1	-25.7	-29.0	-25.7	PASS
0.52	28.5	16.2	28.7	17.0	56.0	46.0	-27.5	-29.8	-27.3	-29.0	PASS
0.73	31.2	14.6	31.0	15.5	56.0	46.0	-24.8	-31.4	-25.0	-30.5	PASS
1.36	34.0	15.6	31.9	15.2	56.0	46.0	-22.0	-30.4	-24.1	-30.8	PASS
2.50	41.9	20.0	40.2	20.0	56.0	46.0	-14.1	-26.0	-15.8	-26.0	PASS
3.41	42.9	21.6	43.2	23.3	56.0	46.0	-13.1	-24.4	-12.8	-22.7	PASS
6.01	44.3	26.2	44.1	25.7	60.0	50.0	-15.7	-23.8	-15.9	-24.3	PASS
7.57	37.4	22.6	37.6	22.2	60.0	50.0	-22.6	-27.4	-22.4	-27.8	PASS
8.70	33.4	17.0	34.2	17.9	60.0	50.0	-26.6	-33.0	-25.8	-32.1	PASS
15.14	30.3	19.2	30.1	19.0	60.0	50.0	-29.7	-30.8	-29.9	-31.0	PASS
17.40	28.8	19.4	29.1	19.1	60.0	50.0	-31.2	-30.6	-30.9	-30.9	PASS
22.71	25.6	16.4	26.7	16.4	60.0	50.0	-34.4	-33.6	-33.3	-33.6	PASS
26.10	23.7	14.8	24.1	15.1	60.0	50.0	-36.3	-35.2	-35.9	-34.9	PASS
29.99	22.6	14.6	23.5	15.8	60.0	50.0	-37.4	-35.4	-36.5	-34.2	PASS

Table 58 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 58.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 58 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off).

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.14 Conducted emission, Configuration VII, active mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	36.1	7.9	36.2	8.0	66.0	56.0	-29.9	-48.1	-29.8	-48.0	PASS
0.17	36.1	33.7	25.8	34.1	64.8	54.8	-28.7	-21.1	-39.0	-20.7	PASS
0.26	31.2	28.0	31.1	28.0	61.5	51.5	-30.3	-23.5	-30.4	-23.5	PASS
0.30	31.6	26.5	31.6	26.8	60.2	50.2	-28.6	-23.7	-28.6	-23.4	PASS
0.52	30.1	17.1	28.8	17.0	56.0	46.0	-25.9	-28.9	-27.2	-29.0	PASS
0.73	31.7	16.7	30.5	13.6	56.0	46.0	-24.3	-29.3	-25.5	-32.4	PASS
1.36	32.2	16.0	31.4	17.2	56.0	46.0	-23.8	-30.0	-24.6	-28.8	PASS
2.50	41.2	22.2	35.1	16.9	56.0	46.0	-14.8	-23.8	-20.9	-29.1	PASS
3.41	43.6	23.2	43.5	24.3	56.0	46.0	-12.4	-22.8	-12.5	-21.7	PASS
6.01	43.5	25.0	44.2	27.2	60.0	50.0	-16.5	-25.0	-15.8	-22.8	PASS
7.57	36.8	21.4	35.4	20.3	60.0	50.0	-23.2	-28.6	-24.6	-29.7	PASS
8.70	35.7	16.6	34.5	16.3	60.0	50.0	-24.3	-33.4	-25.5	-33.7	PASS
15.14	30.1	18.9	30.2	18.9	60.0	50.0	-29.9	-31.1	-29.8	-31.1	PASS
17.40	28.7	18.8	28.8	19.4	60.0	50.0	-31.3	-31.2	-31.2	-30.6	PASS
22.71	25.5	16.3	26.6	17.6	60.0	50.0	-34.5	-33.7	-33.4	-32.4	PASS
26.10	23.9	14.9	24.6	15.3	60.0	50.0	-36.1	-35.1	-35.4	-34.7	PASS
29.99	22.3	14.8	23.3	15.1	60.0	50.0	-37.7	-35.2	-36.7	-34.9	PASS

Table 59 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 59.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 59 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



4.15 Conducted emission, Configuration VII, sweep stopped mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.57 (a)	47.0	31.9	45.7	30.7	60.0	50.0	-13.0	-18.1	-14.3	-19.3	PASS
15.14 (b)	27.5	20.6	28.1	20.2	60.0	50.0	-32.5	-29.4	-31.9	-29.8	PASS
22.72 (c)	21.5	13.8	22.7	15.6	60.0	50.0	-38.5	-36.2	-37.3	-34.4	PASS
8.66 (e)	47.0	31.9	45.7	30.7	60.0	50.0	-13.0	-18.1	-14.3	-19.3	PASS
17.31 (f)	27.5	20.6	28.1	20.2	60.0	50.0	-32.5	-29.4	-31.9	-29.8	PASS
25.97 (g)	21.5	13.8	22.7	15.6	60.0	50.0	-38.5	-36.2	-37.3	-34.4	PASS

Table 60 sweep stopped mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in table Table 60.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 60 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).
 - (a) means the sweep is stopped at the beginning of the range at the given frequency
 - (b) second harmonic from a
 - (c) third harmonic from a
 - (d) means the sweep is stopped at the end of the sweep range at the given frequency
 - (e) second harmonic from b
 - (f) third harmonic from b

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.16 Conducted emission, Configuration VIII, passive mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	35.3	8.2	34.8	8.1	66.0	56.0	-30.7	-47.8	-31.2	-47.9	PASS
0.17	35.6	33.2	35.2	33.5	65.0	55.0	-29.4	-21.8	-29.8	-21.5	PASS
0.26	28.7	27.2	30.2	26.9	61.6	51.6	-32.9	-24.4	-31.4	-24.7	PASS
0.38	31.4	23.2	31.1	22.3	58.2	48.2	-26.8	-25.0	-27.1	-25.9	PASS
0.60	31.6	17.5	31.0	16.9	56.0	46.0	-24.4	-28.5	-25.0	-29.1	PASS
1.01	32.4	12.0	31.8	12.2	56.0	46.0	-23.6	-34.0	-24.2	-33.8	PASS
1.77	37.1	18.6	36.5	17.1	56.0	46.0	-18.9	-27.4	-19.5	-28.9	PASS
2.55	39.4	21.6	41.8	21.6	56.0	46.0	-16.6	-24.4	-14.2	-24.4	PASS
3.37	44.0	22.4	43.0	22.2	56.0	46.0	-12.0	-23.6	-13.0	-23.8	PASS
6.00	44.5	26.2	43.9	26.2	60.0	50.0	-15.5	-23.8	-16.1	-23.8	PASS
7.57	37.1	21.3	38.0	23.2	60.0	50.0	-22.9	-28.7	-22.0	-26.8	PASS
8.70	40.7	19.6	40.1	19.7	60.0	50.0	-19.3	-30.4	-19.9	-30.3	PASS
15.14	31.4	19.9	31.6	20.4	60.0	50.0	-28.6	-30.1	-28.4	-29.6	PASS
17.40	31.4	20.5	32.1	21.7	60.0	50.0	-28.6	-29.5	-27.9	-28.3	PASS
22.71	26.4	17.0	28.0	18.5	60.0	50.0	-33.6	-33.0	-32.0	-31.5	PASS
26.10	22.0	14.0	23.1	14.8	60.0	50.0	-38.0	-36.0	-36.9	-35.2	PASS
29.99	20.2	13.0	20.6	13.2	60.0	50.0	-39.8	-37.0	-39.4	-36.8	PASS

Table 61 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 61.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 61 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off).

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.17 Conducted emission, Configuration VIII, active mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	35.4	8.2	34.6	8.2	66.0	56.0	-30.6	-47.8	-31.4	-47.8	PASS
0.17	26.0	33.5	35.0	33.4	65.0	55.0	-39.0	-21.5	-30.0	-21.6	PASS
0.26	30.9	26.9	30.2	26.7	61.6	51.6	-30.7	-24.7	-31.4	-24.9	PASS
0.38	27.7	20.5	31.2	21.7	58.2	48.2	-30.5	-27.7	-27.0	-26.5	PASS
0.60	30.5	16.2	31.0	16.9	56.0	46.0	-25.5	-29.8	-25.0	-29.1	PASS
1.01	30.4	12.1	31.6	13.0	56.0	46.0	-25.6	-33.9	-24.4	-33.0	PASS
1.77	36.9	16.9	36.7	17.1	56.0	46.0	-19.1	-29.1	-19.3	-28.9	PASS
2.55	41.2	23.5	41.2	22.8	56.0	46.0	-14.8	-22.5	-14.8	-23.2	PASS
3.37	43.2	24.6	44.6	24.8	56.0	46.0	-12.8	-21.4	-11.4	-21.2	PASS
6.00	43.8	25.7	44.6	26.5	60.0	50.0	-16.2	-24.3	-15.4	-23.5	PASS
7.57	35.0	19.6	37.5	21.2	60.0	50.0	-25.0	-30.4	-22.5	-28.8	PASS
8.70	41.2	16.3	40.9	18.9	60.0	50.0	-18.8	-33.7	-19.1	-31.1	PASS
15.14	29.8	18.8	31.8	20.7	60.0	50.0	-30.2	-31.2	-28.2	-29.3	PASS
17.40	27.9	18.4	31.9	21.6	60.0	50.0	-32.1	-31.7	-28.1	-28.4	PASS
22.71	24.0	15.9	28.4	18.8	60.0	50.0	-36.0	-34.1	-31.6	-31.2	PASS
26.10	23.2	15.3	23.6	15.2	60.0	50.0	-36.8	-34.7	-36.4	-34.8	PASS
29.99	21.2	13.7	20.6	13.0	60.0	50.0	-38.8	-36.3	-39.4	-37.0	PASS

Table 62 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 62.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 62 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.18 Conducted emission, Configuration VIII, sweep stopped mode.


Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.57 (a)	51.0	32.4	51.3	34.7	60.0	50.0	-9.0	-17.6	-8.7	-15.3	PASS
15.14 (b)	27.6	20.7	27.6	20.3	60.0	50.0	-32.4	-29.3	-32.4	-29.7	PASS
22.72 (c)	21.8	13.8	22.6	14.8	60.0	50.0	-38.2	-36.2	-37.4	-35.2	PASS
8.66 (d)	55.4	34.8	54.4	32.4	60.0	50.0	-4.6	-15.2	-5.6	-17.6	PASS
17.31 (e)	27.4	18.7	28.1	18.8	60.0	50.0	-32.6	-31.3	-31.9	-31.2	PASS
25.97 (f)	23.2	14.1	24.4	15.2	60.0	50.0	-36.8	-35.9	-35.6	-34.8	PASS

Table 63 sweep stopped mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in table Table 63.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 63 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).
 - (a) means the sweep is stopped at the beginning of the range at the given frequency
 - (b) second harmonic from a
 - (c) third harmonic from a
 - (d) means the sweep is stopped at the end of the sweep range at the given frequency
 - (e) second harmonic from b
 - (f) third harmonic from b

Signature: 

Test engineer: J. Schuurmans

Date January 29, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.19 Conducted emission, Configuration XIV, passive mode.

Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	38.1	8.7	40.3	9.1	66.0	56.0	-27.9	-47.3	-25.7	-46.9	PASS
0.19	34.8	30.6	35.5	31.8	64.2	54.2	-29.4	-23.6	-28.7	-22.4	PASS
0.28	30.7	24.2	31.5	25.0	60.8	50.8	-30.1	-26.6	-29.3	-25.8	PASS
0.62	28.5	20.5	30.3	21.4	56.0	46.0	-27.5	-25.5	-25.7	-24.6	PASS
0.37	25.0	15.8	23.9	15.2	58.4	48.4	-33.4	-32.6	-34.5	-33.2	PASS
0.97	26.3	11.3	25.9	12.0	56.0	46.0	-29.7	-34.7	-30.1	-34.0	PASS
1.52	21.8	14.9	31.9	14.4	56.0	46.0	-34.2	-31.1	-24.1	-31.6	PASS
2.30	35.2	18.6	35.4	18.9	56.0	46.0	-20.8	-27.4	-20.6	-27.1	PASS
3.03	37.4	22.4	36.3	20.4	56.0	46.0	-18.6	-23.6	-19.7	-25.6	PASS
4.73	40.4	27.3	41.4	27.5	56.0	46.0	-15.6	-18.7	-14.6	-18.5	PASS
6.27	41.3	30.1	42.6	30.7	60.0	50.0	-18.7	-19.9	-17.4	-19.3	PASS
7.57	40.2	27.2	41.7	27.4	60.0	50.0	-19.8	-22.8	-18.3	-22.6	PASS
8.70	45.7	21.5	47.9	22.6	60.0	50.0	-14.3	-28.5	-12.1	-27.4	PASS
15.14	25.9	19.0	28.7	21.8	60.0	50.0	-34.1	-31.0	-31.3	-28.2	PASS
17.40	24.5	17.6	26.9	20.2	60.0	50.0	-35.5	-32.4	-33.1	-29.8	PASS
22.71	17.9	10.8	19.9	12.1	60.0	50.0	-42.1	-39.2	-40.1	-37.9	PASS
16.10	20.9	13.0	23.5	15.4	60.0	50.0	-39.1	-37.0	-36.5	-34.6	PASS
29.99	23.7	16.6	24.6	17.6	60.0	50.0	-36.3	-33.4	-35.4	-32.4	PASS

Table 64 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in Table 64.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 64 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off).

Signature:

Test engineer: J. Schuurmans

Date January 27, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.20 Conducted emission, Configuration XIV, active mode.

Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	40.1	9.0	38.6	8.9	66.0	56.0	-25.9	-47.0	-27.4	-47.1	PASS
0.19	35.6	32.5	35.5	33.5	64.2	54.2	-28.6	-21.7	-28.7	-20.7	PASS
0.27	31.8	26.0	32.1	23.4	61.0	51.0	-29.2	-25.0	-28.9	-27.6	PASS
0.92	31.4	23.6	31.1	23.4	56.0	46.0	-24.6	-22.4	-24.9	-22.6	PASS
0.37	24.2	16.4	21.3	13.6	58.6	48.6	-34.4	-32.2	-37.3	-35.0	PASS
0.96	27.8	13.3	26.5	12.5	56.0	46.0	-28.2	-32.7	-29.5	-33.5	PASS
1.52	32.3	14.6	30.8	13.7	56.0	46.0	-23.7	-31.4	-25.2	-32.3	PASS
2.30	35.9	17.6	34.5	16.2	56.0	46.0	-20.1	-28.4	-21.5	-29.8	PASS
3.03	37.4	20.9	33.5	18.0	56.0	46.0	-18.6	-25.1	-22.5	-28.0	PASS
4.72	40.7	26.6	41.9	28.0	56.0	46.0	-15.3	-19.4	-14.1	-18.0	PASS
6.27	41.0	28.7	41.6	29.1	60.0	50.0	-19.0	-21.3	-18.4	-20.9	PASS
7.57	40.6	26.3	41.6	26.7	60.0	50.0	-19.4	-23.7	-18.4	-23.3	PASS
8.70	46.2	21.7	47.9	22.8	60.0	50.0	-13.8	-28.3	-12.1	-27.2	PASS
15.14	27.5	20.4	28.7	21.9	60.0	50.0	-32.5	-29.6	-31.3	-28.1	PASS
17.40	25.8	18.7	27.3	20.2	60.0	50.0	-34.2	-31.3	-32.7	-29.8	PASS
22.71	19.5	12.0	19.5	12.0	60.0	50.0	-40.5	-38.0	-40.5	-38.0	PASS
26.10	22.5	14.4	22.7	14.8	60.0	50.0	-37.5	-35.6	-37.3	-35.2	PASS
29.99	23.4	16.3	24.3	16.9	60.0	50.0	-36.6	-33.7	-35.7	-33.1	PASS

Table 65 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in Table 65.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 65 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 27, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

4.21 Conducted emission, Configuration XIV, sweep stopped.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.57 9 (a)	57.4	47.8	56.3	46.7	60.0	50.0	-2.6	-2.2	-3.7	-3.3	PASS
15.14 (b)	22.7	14.5	23.4	15.6	60.0	50.0	-37.3	-35.5	-36.6	-34.4	PASS
22.72 (c)	19.2	11.5	20.0	11.9	60.0	50.0	-40.8	-38.5	-40.0	-38.1	PASS
8.66 (e)	57.2	48.9	57.2	49.5	60.0	50.0	-2.8	-1.1	-2.8	-0.5	PASS
17.31 (f)	20.8	12.9	22.4	15.0	60.0	50.0	-39.2	-37.1	-37.6	-35.0	PASS
25.97 (g)	24.2	16.9	24.7	17.8	60.0	50.0	-35.8	-33.1	-35.3	-32.2	PASS

Table 66 sweep stopped mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in table Table 66.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 66 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).

- (a) means the sweep is stopped at the beginning of the range at the given frequency
- (b) second harmonic from a
- (c) third harmonic from a
- (d) means the sweep is stopped at the end of the sweep range at the given frequency
- (e) second harmonic from d
- (f) third harmonic from d

Signature:

Test engineer: J. Schuurmans

Date February 10, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

4.22 Conducted emission, Configuration XV, passive mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	38.1	8.7	38.9	9.6	66.0	56.0	-27.9	-47.3	-27.1	-46.4	PASS
0.19	35.0	33.2	34.4	30.7	64.1	54.1	-29.1	-20.9	-29.7	-23.4	PASS
0.28	30.5	27.4	31.4	28.1	60.7	50.7	-30.2	-23.3	-29.3	-22.6	PASS
0.50	28.3	19.9	25.1	14.4	56.0	46.0	-27.7	-26.1	-30.9	-31.6	PASS
0.51	32.5	13.1	30.3	12.0	56.0	46.0	-23.5	-32.9	-25.7	-34.0	PASS
2.29	36.2	17.9	24.7	16.9	56.0	46.0	-19.8	-28.1	-31.3	-29.1	PASS
3.01	37.6	19.4	36.8	19.3	56.0	46.0	-18.4	-26.6	-19.2	-26.7	PASS
4.01	38.9	22.6	38.8	22.9	56.0	46.0	-17.1	-23.4	-17.2	-23.1	PASS
4.56	41.8	25.7	40.5	25.0	56.0	46.0	-14.2	-20.3	-15.5	-21.0	PASS
6.06	41.1	26.8	41.3	27.8	60.0	50.0	-18.9	-23.2	-18.7	-22.2	PASS
7.57	46.6	26.1	45.2	24.6	60.0	50.0	-13.4	-23.9	-14.8	-25.4	PASS
8.70	48.8	21.7	48.9	19.1	60.0	50.0	-11.2	-28.3	-11.1	-30.9	PASS
15.14	30.1	21.7	26.8	18.4	60.0	50.0	-29.9	-28.3	-33.2	-31.6	PASS
17.40	27.5	20.1	26.4	18.5	60.0	50.0	-32.5	-29.9	-33.6	-31.5	PASS
22.71	22.0	14.0	17.6	10.7	60.0	50.0	-38.0	-36.0	-42.4	-39.3	PASS
26.10	22.6	14.4	19.9	12.9	60.0	50.0	-37.4	-35.6	-40.1	-37.1	PASS
29.99	23.6	15.5	23.6	16.6	60.0	50.0	-36.4	-34.5	-36.4	-33.4	PASS

Table 67 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in Table 67.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 67 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off)

Signature: 

Test engineer: J. Schuurmans

Date January 28, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.23 Conducted emission, Configuration XV, active mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	37.9	8.7	38.3	8.7	66.0	56.0	-28.1	-47.3	-27.7	-47.3	PASS
0.18	33.4	33.4	35.0	33.6	64.5	54.5	-31.1	-21.1	-29.5	-20.9	PASS
0.27	31.0	27.7	30.6	27.1	61.1	51.1	-30.1	-23.4	-30.5	-24.0	PASS
0.50	28.6	18.9	26.0	18.2	56.0	46.0	-27.4	-27.1	-30.0	-27.8	PASS
1.52	32.0	15.2	30.6	14.2	56.0	46.0	-24.0	-30.8	-25.4	-31.8	PASS
2.30	35.1	18.4	33.3	16.5	56.0	46.0	-20.9	-27.6	-22.7	-29.5	PASS
3.01	36.0	19.4	34.6	17.8	56.0	46.0	-20.0	-26.6	-21.4	-28.2	PASS
4.05	41.3	25.6	40.2	23.1	56.0	46.0	-14.7	-20.4	-15.8	-22.9	PASS
4.56	41.1	25.6	38.7	23.8	56.0	46.0	-14.9	-20.4	-17.3	-22.2	PASS
6.04	41.7	28.6	39.6	26.5	60.0	50.0	-18.3	-21.4	-20.4	-23.5	PASS
7.57	46.6	27.0	45.7	25.7	60.0	50.0	-13.4	-23.0	-14.3	-24.3	PASS
8.70	48.8	22.8	47.8	21.2	60.0	50.0	-11.2	-27.2	-12.2	-28.8	PASS
15.14	30.2	21.4	29.0	20.1	60.0	50.0	-29.8	-28.6	-31.0	-29.9	PASS
17.40	27.8	20.2	26.2	18.9	60.0	50.0	-32.2	-29.8	-33.8	-31.1	PASS
22.71	23.6	15.8	22.4	13.9	60.0	50.0	-36.4	-34.2	-37.6	-36.1	PASS
26.10	23.4	15.2	21.2	12.9	60.0	50.0	-36.6	-34.8	-38.8	-37.1	PASS
29.99	22.9	15.4	21.8	14.5	60.0	50.0	-37.1	-34.6	-38.2	-35.5	PASS

Table 68 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in Table 68.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 68 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 28, 2004



4.24 Conducted emission, Configuration XV, sweep stopped.


Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.56 (a)	57.6	46.4	58.6	47.7	60.0	50.0	-2.4	-3.6	-1.4	-2.3	PASS
15.13 (b)	25.0	15.3	25.0	16.2	60.0	50.0	-35.0	-34.7	-35.0	-33.8	PASS
22.69 (c)	21.7	12.9	22.6	13.5	60.0	50.0	-38.3	-37.1	-37.4	-36.5	PASS
8.65 (d)	52.0	40.5	53.5	45.3	60.0	50.0	-8.0	-9.5	-6.5	-4.7	PASS
17.31 (e)	21.7	14.3	23.5	15.0	60.0	50.0	-38.3	-35.7	-36.5	-35.0	PASS
25.96 (f)	22.3	15.3	22.8	15.5	60.0	50.0	-37.7	-34.7	-37.2	-34.5	PASS

Table 69 sweep stopped mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in Table 69.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 69 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).
 - (a) means the sweep is stopped at the beginning of the range at the given frequency
 - (b) second harmonic from a
 - (c) third harmonic from a
 - (d) means the sweep is stopped at the end of the sweep range at the given frequency
 - (e) second harmonic from d
 - (f) third harmonic from d

Signature: 

Test engineer: J. Schuurmans

Date January 16, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.25 Conducted emission, Configuration XVI, passive mode.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	38.1	26.2	36.4	23.7	66.0	56.0	-27.9	-29.8	-29.6	-32.3	PASS
0.24	37.0	36.8	36.9	36.4	62.0	52.0	-25.0	-15.2	-25.1	-15.6	PASS
0.34	32.4	30.1	31.7	29.1	59.2	49.2	-26.8	-19.1	-27.5	-20.1	PASS
0.53	29.3	21.7	28.6	4.0	56.0	46.0	-26.7	-24.3	-27.4	-42.0	PASS
1.06	30.4	17.3	28.4	17.4	56.0	46.0	-25.6	-28.7	-27.6	-28.6	PASS
2.08	32.4	16.5	33.0	16.0	56.0	46.0	-23.6	-29.5	-23.0	-30.0	PASS
2.64	36.0	18.7	33.4	17.6	56.0	46.0	-20.0	-27.3	-22.6	-28.4	PASS
3.33	34.9	21.6	34.1	18.2	56.0	46.0	-21.1	-24.4	-21.9	-27.8	PASS
4.12	39.4	24.2	37.4	23.5	56.0	46.0	-16.6	-21.8	-18.6	-22.5	PASS
5.14	35.7	25.0	36.4	23.7	60.0	50.0	-24.3	-25.0	-23.6	-26.3	PASS
7.57	44.1	25.3	43.7	22.5	60.0	50.0	-15.9	-24.7	-16.3	-27.5	PASS
8.10	44.7	21.9	44.1	23.1	60.0	50.0	-15.3	-28.1	-15.9	-26.9	PASS
8.70	42.3	19.2	45.1	20.3	60.0	50.0	-17.7	-30.8	-14.9	-29.7	PASS
15.14	22.6	15.6	21.9	14.7	60.0	50.0	-37.4	-34.4	-38.1	-35.3	PASS
16.20	23.7	15.1	21.7	13.9	60.0	50.0	-36.3	-34.9	-38.3	-36.1	PASS
17.40	21.0	13.6	20.1	12.4	60.0	50.0	-39.0	-36.4	-39.9	-37.6	PASS
22.64	18.1	10.7	17.4	10.2	60.0	50.0	-41.9	-39.3	-42.6	-39.8	PASS
24.30	23.0	15.2	21.6	14.0	60.0	50.0	-37.0	-34.8	-38.4	-36.0	PASS
26.10	25.9	18.6	24.6	17.6	60.0	50.0	-34.1	-31.4	-35.4	-32.4	PASS
29.99	23.3	15.9	22.2	15.0	60.0	50.0	-36.7	-34.1	-37.8	-35.0	PASS

Table 70 passive mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in Table 70.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 70 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Passive mode means the system was standby (alarm off).

Signature: 

Test engineer: J. Schuurmans

Date January 16, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

4.26 Conducted emission, Configuration XVI, active mode.


Frequency (MHz)	Measurement results dB(μV) Neutral		Measurement results dB(μV) Line 1		Limits dB(μV)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
0.15	37.9	8.7	38.3	8.7	66.0	56.0	-28.1	-47.3	-27.7	-47.3	PASS
0.18	33.4	33.4	35.0	33.6	64.5	54.5	-31.1	-21.1	-29.5	-20.9	PASS
0.27	31.0	27.7	30.6	27.1	61.1	51.1	-30.1	-23.4	-30.5	-24.0	PASS
0.50	28.6	18.9	26.0	18.2	56.0	46.0	-27.4	-27.1	-30.0	-27.8	PASS
1.52	32.0	15.2	30.6	14.2	56.0	46.0	-24.0	-30.8	-25.4	-31.8	PASS
2.30	35.1	18.4	33.3	16.5	56.0	46.0	-20.9	-27.6	-22.7	-29.5	PASS
3.01	36.0	19.4	34.6	17.8	56.0	46.0	-20.0	-26.6	-21.4	-28.2	PASS
4.05	41.3	25.6	40.2	23.1	56.0	46.0	-14.7	-20.4	-15.8	-22.9	PASS
4.56	41.1	25.6	38.7	23.8	56.0	46.0	-14.9	-20.4	-17.3	-22.2	PASS
6.04	41.7	28.6	39.6	26.5	60.0	50.0	-18.3	-21.4	-20.4	-23.5	PASS
7.57	46.6	27.0	45.7	25.7	60.0	50.0	-13.4	-23.0	-14.3	-24.3	PASS
8.70	48.8	22.8	47.8	21.2	60.0	50.0	-11.2	-27.2	-12.2	-28.8	PASS
15.14	30.2	21.4	29.0	20.1	60.0	50.0	-29.8	-28.6	-31.0	-29.9	PASS
17.40	27.8	20.2	26.2	18.9	60.0	50.0	-32.2	-29.8	-33.8	-31.1	PASS
22.71	23.6	15.8	22.4	13.9	60.0	50.0	-36.4	-34.2	-37.6	-36.1	PASS
26.10	23.4	15.2	21.2	12.9	60.0	50.0	-36.6	-34.8	-38.8	-37.1	PASS
29.99	22.9	15.4	21.8	14.5	60.0	50.0	-37.1	-34.6	-38.2	-35.5	PASS

Table 71 active mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in continuous sweep mode on 8.2 +/- 700 kHz, are depicted in Table 71.

Note:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 71 were found to be below 25 dB(μV) on both line 1 and line 2.
- 2) Active mode means the system was in alarm mode.

Signature: 

Test engineer: J. Schuurmans

Date January 16, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

4.27 Conducted emission, Configuration XVII, sweep stopped.

Frequency (MHz)	Measurement results dB(μ V) Neutral		Measurement results dB(μ V) Line 1		Limits dB(μ V)		Margin (dB) Neutral		Margin (dB) Line 1		Result
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
7.58 (a)	47.0	38.7	47.1	41.3	60.0	50.0	-13.0	-11.3	-12.9	-8.7	PASS
15.16 (b)	23.5	15.0	23.1	16.0	60.0	50.0	-36.5	-35.0	-36.9	-34.0	PASS
22.73 (c)	20.3	12.3	19.6	11.6	60.0	50.0	-39.7	-37.7	-40.4	-38.4	PASS
8.64 (d)	53.4	44.8	54.7	40.9	60.0	50.0	-6.6	-5.2	-5.3	-9.1	PASS
17.28 (e)	21.7	14.0	21.3	14.0	60.0	50.0	-38.3	-36.0	-38.7	-36.0	PASS
25.93 (f)	23.5	16.0	22.4	15.2	60.0	50.0	-36.5	-34.0	-37.6	-34.8	PASS

Table 72 sweep stopped mode

The results of the conducted emission tests, carried out in accordance with 47 CFR Part 15, section 15.207, at the 110 Volts AC mains connection terminals of the AC/DC power supply connected to the EUT and with the EUT operating in sweep stopped mode on 8.2 +/- 700 kHz, are depicted in Table 72.

Notes:

- 1) During the measurement it was taken into account that the main operating frequency of 8.2 MHz of the EUT could be present on the 110 Volts AC mains connection terminals. The possible occurrence of this frequency of 8.2 MHz and its harmonics, throughout the range of 8.2 MHz +/- 700 kHz to 30 MHz, was checked during the measurement. The conducted emissions on frequencies which are not listed in table 71 were found to be below 25 dB(μ V) on both line 1 and line 2.
- 2) Sweep stopped mode means the system was detecting a tag (alarm off).

- (a) means the sweep is stopped at the beginning of the range at the given frequency
- (b) second harmonic from a
- (c) third harmonic from a
- (d) means the sweep is stopped at the end of the sweep range at the given frequency
- (e) second harmonic from d
- (f) third harmonic from d

Signature:

Test engineer: J. Schuurmans

Date February 10, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

5 Measurements of bandwidth of the emission.

As per CFR 47 Part 15.223 (a), plots show emission of sweeping system, measured using a loop antenna placed in the detection field of the antenna pairs.

5.1 Configuration I: plot of bandwidth of the emission.

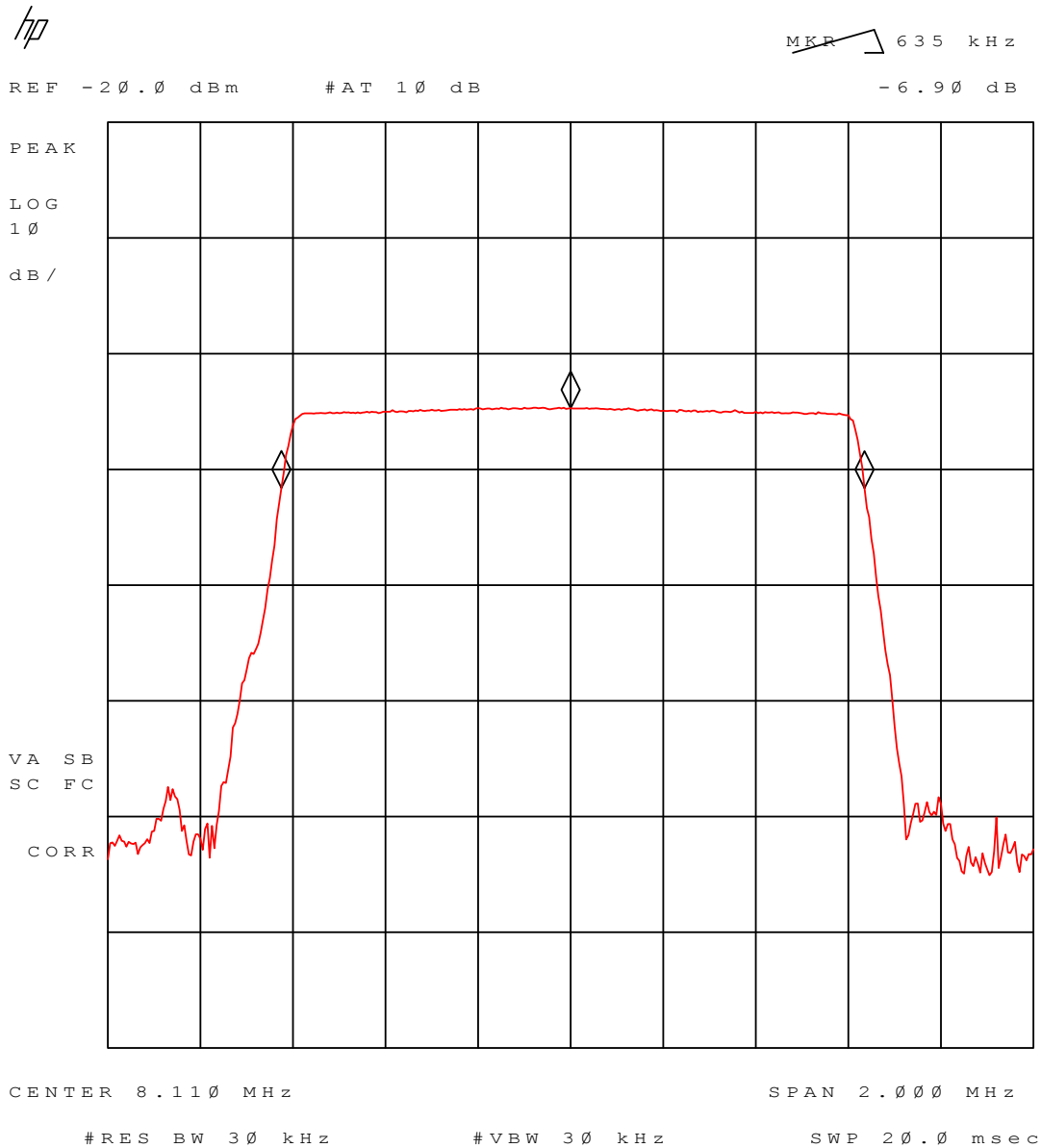


Figure 1 Emission bandwidthplot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

5.2 Configuration II: plot of bandwidth of the emission.

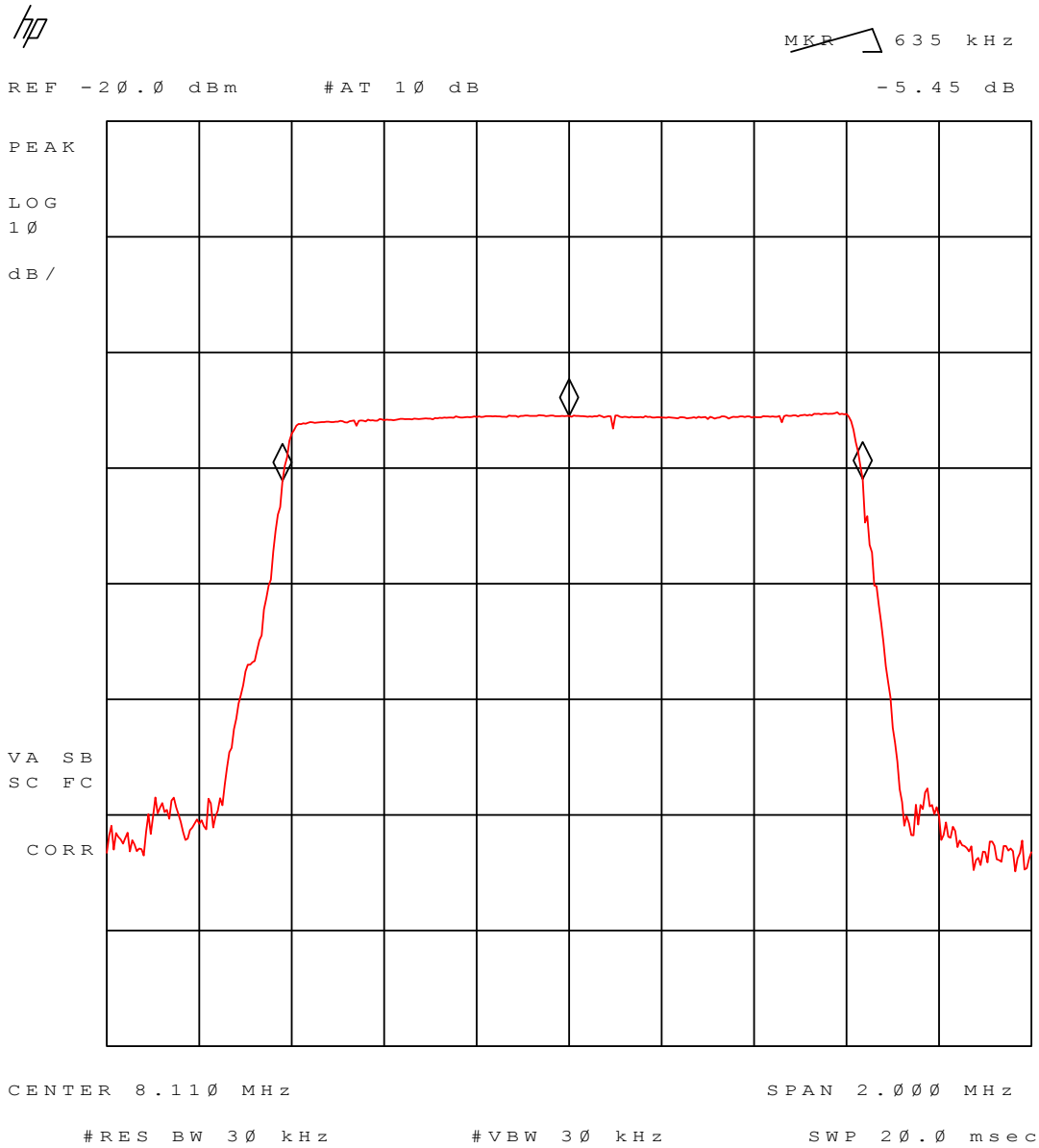


Figure 2 Emission bandwidth plot

Test engineer

Signature

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

5.3 Configuration III: plot of bandwidth of the emission.

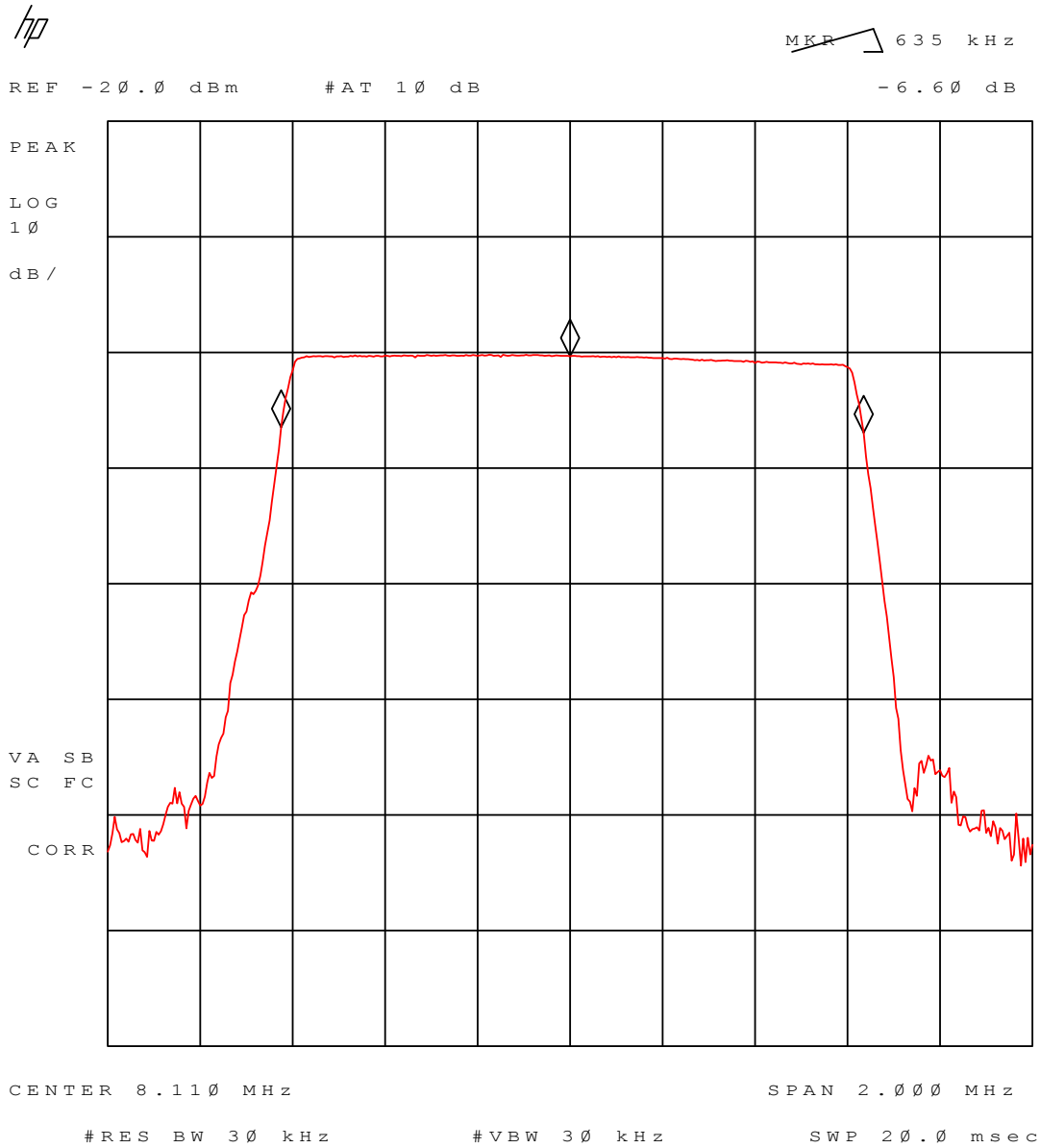


Figure 3 Emission bandwidth plot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

5.4 Configuration VI: plot of bandwidth of the emission.

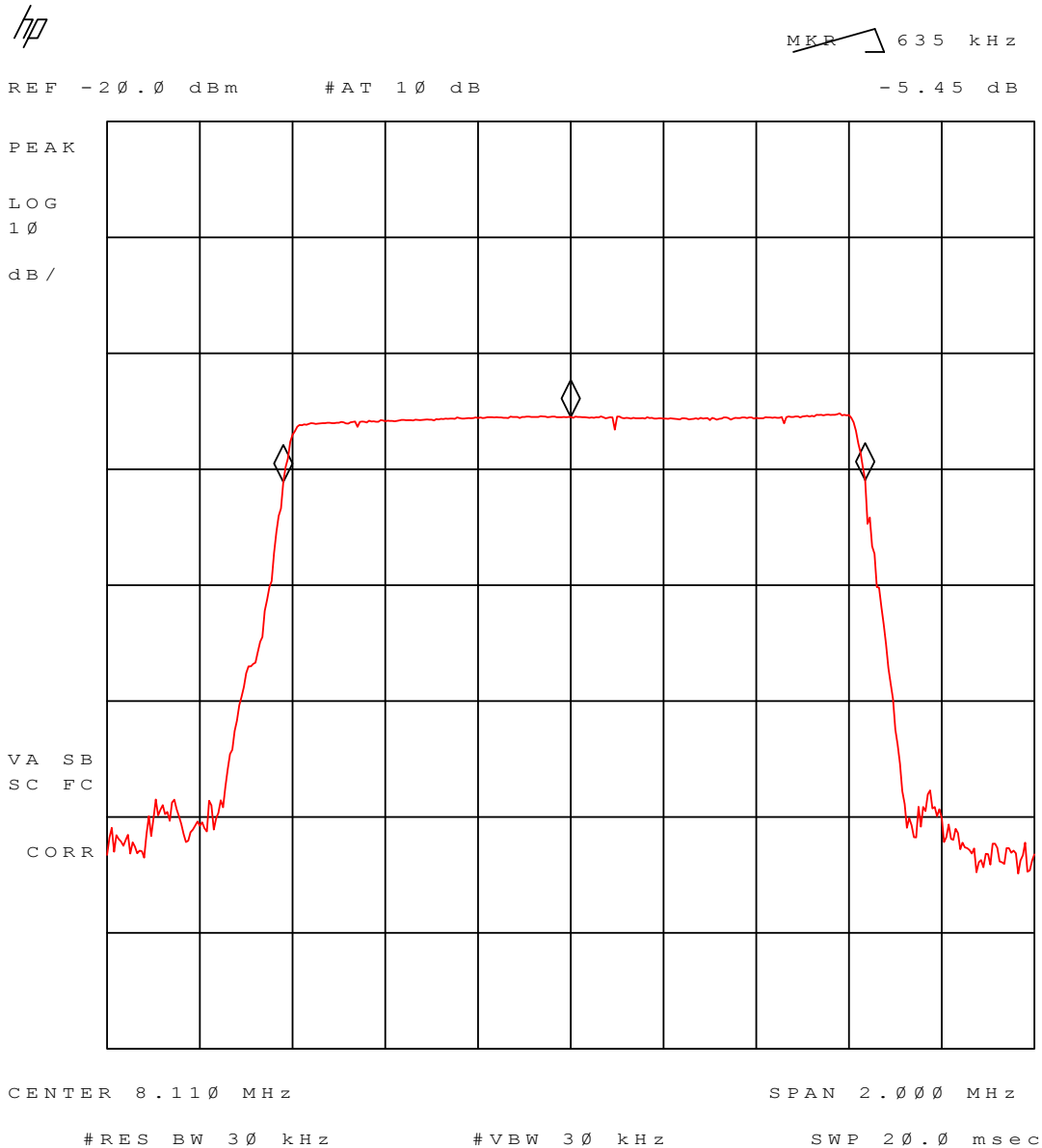


Figure 4 Emission bandwidth plot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

5.5 Configuration VII: plot of bandwidth of the emission.

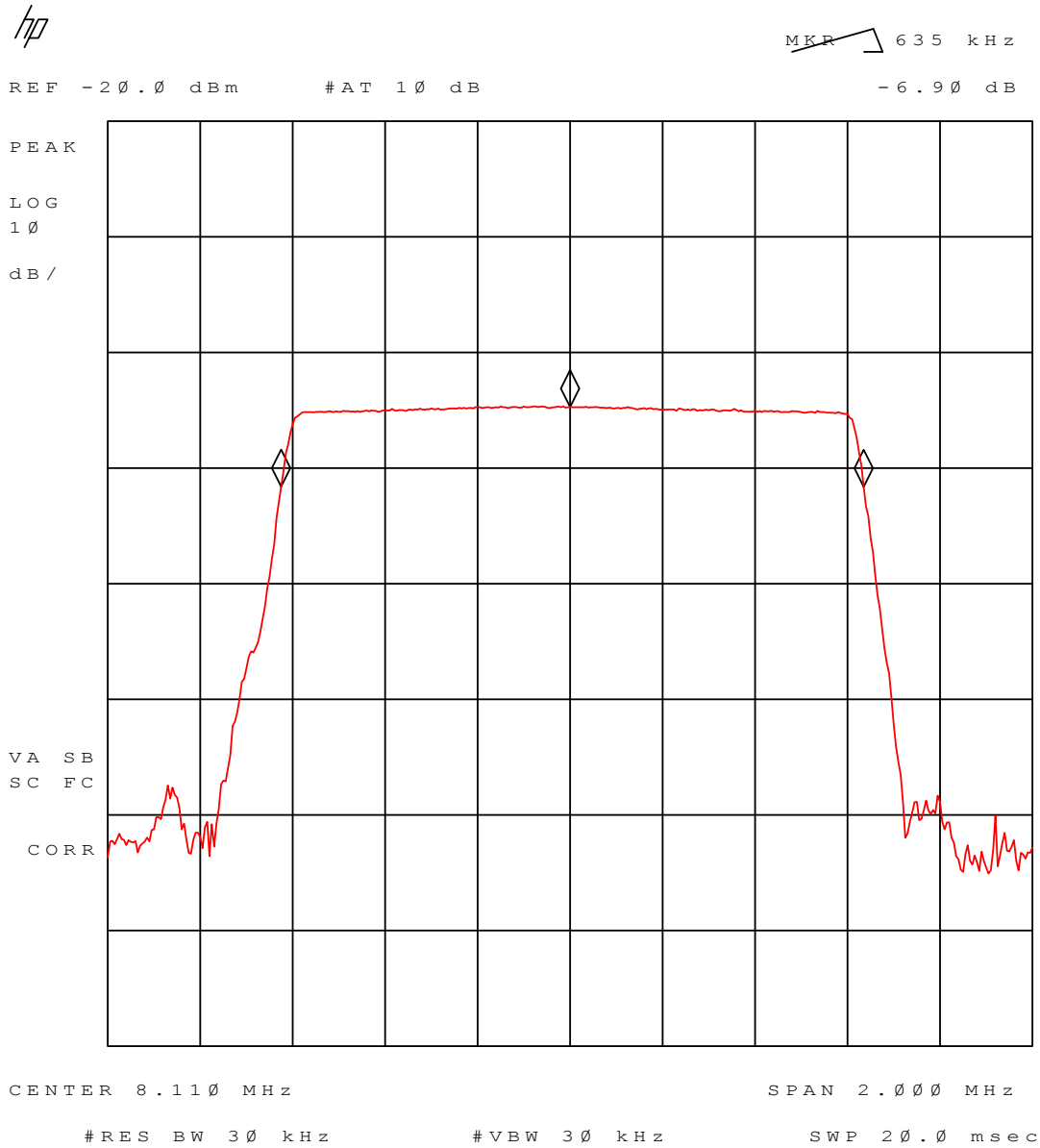


Figure 5 Emission bandwidth plot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

5.6 Configuration VIII: plot of bandwidth of the emission.

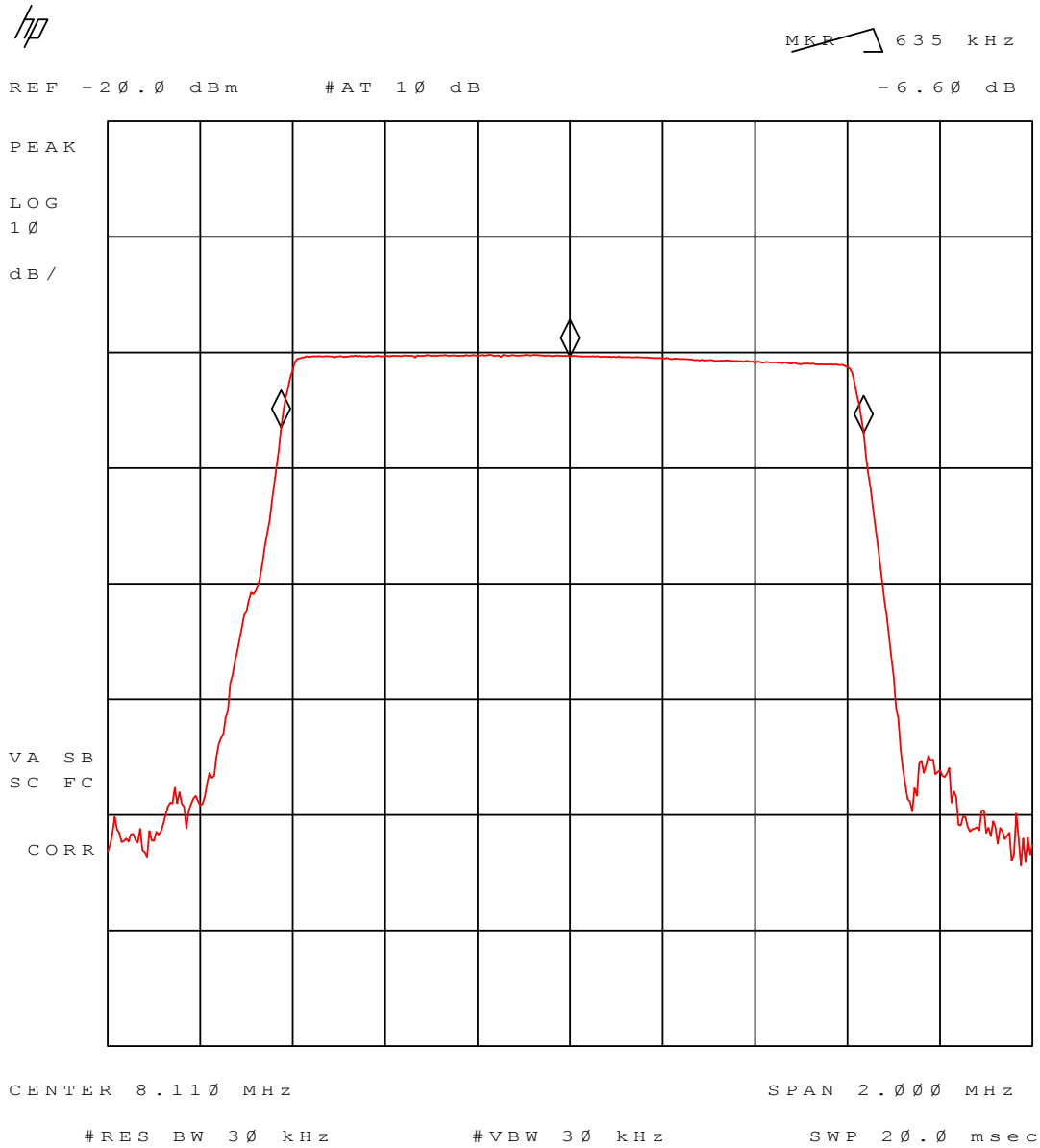


Figure 6 Emission bandwidth plot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

5.7 Configuration XIV: plot of bandwidth of the emission.

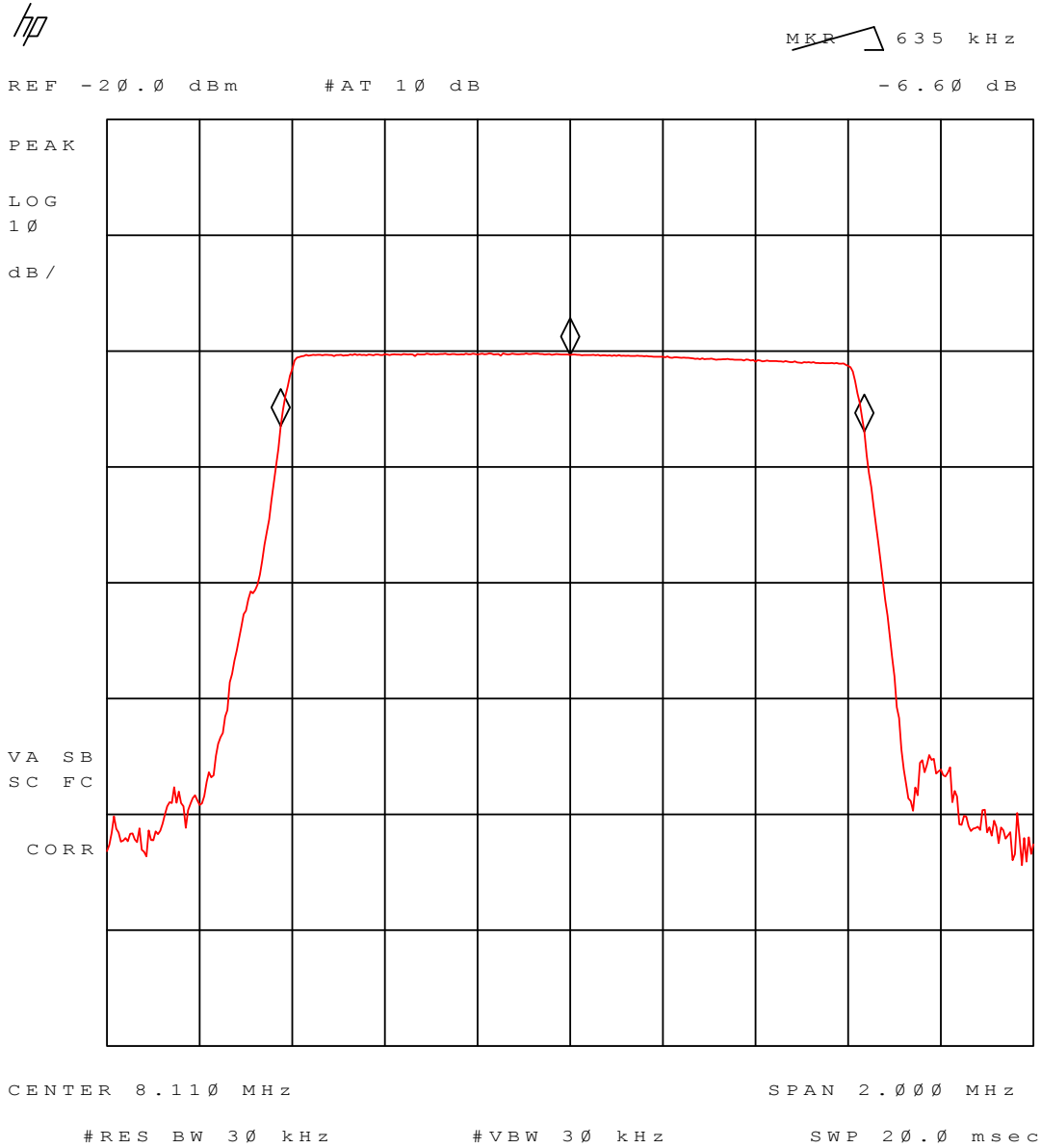


Figure 7 Emission bandwidth plot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

5.8 Configuration XV: plot of bandwidth of the emission.

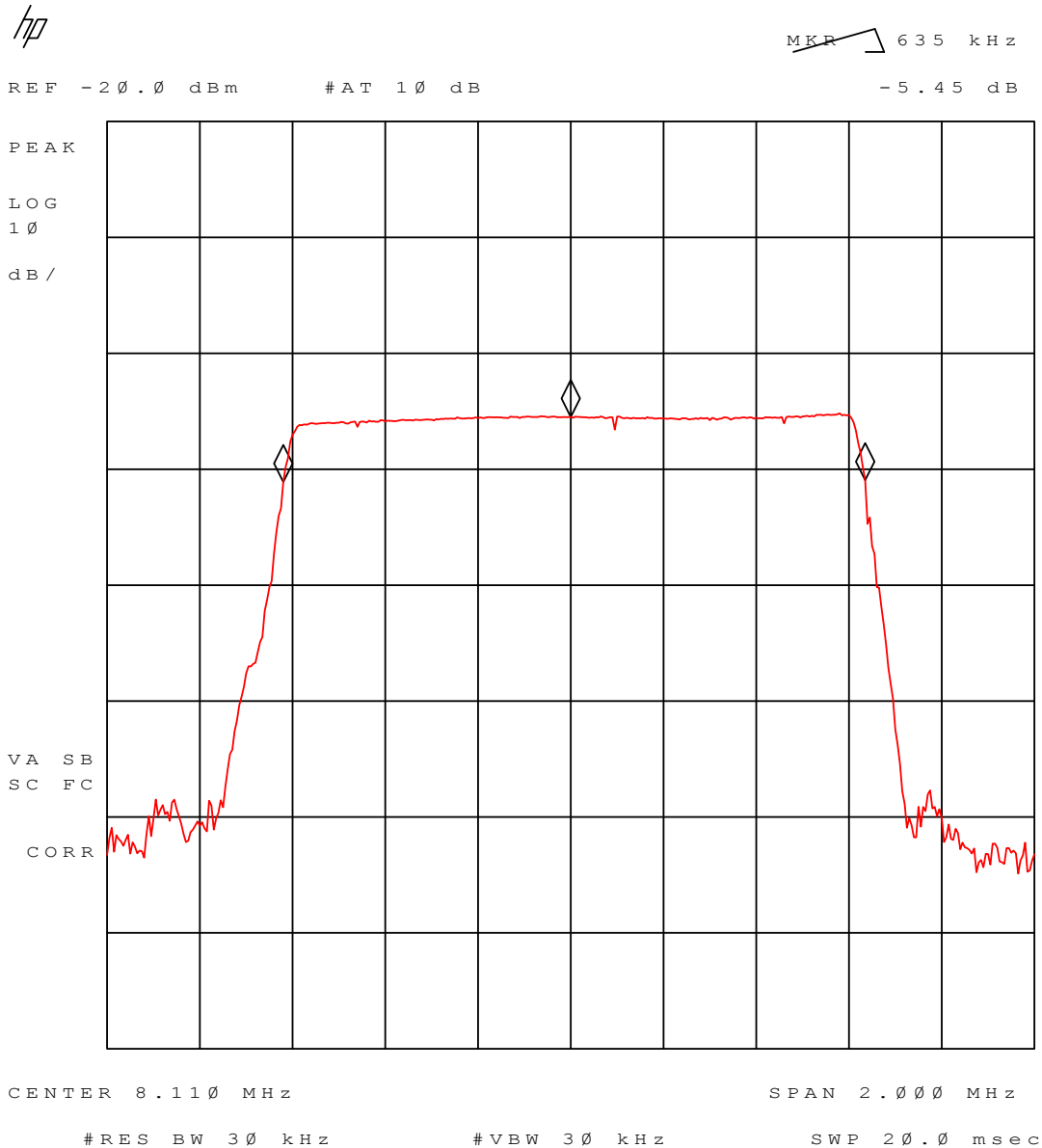


Figure 8 Emission bandwidth plot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
 Description of EUT: Anti Pilferage System
 Manufacturer: NEDAP N.V.
 Brand mark: NEDAP
 Model: NCC1/NR2/NT2/IO
 FCC ID: CGD IQ-MD4

5.9 Configuration XVI: plot of bandwidth of the emission.

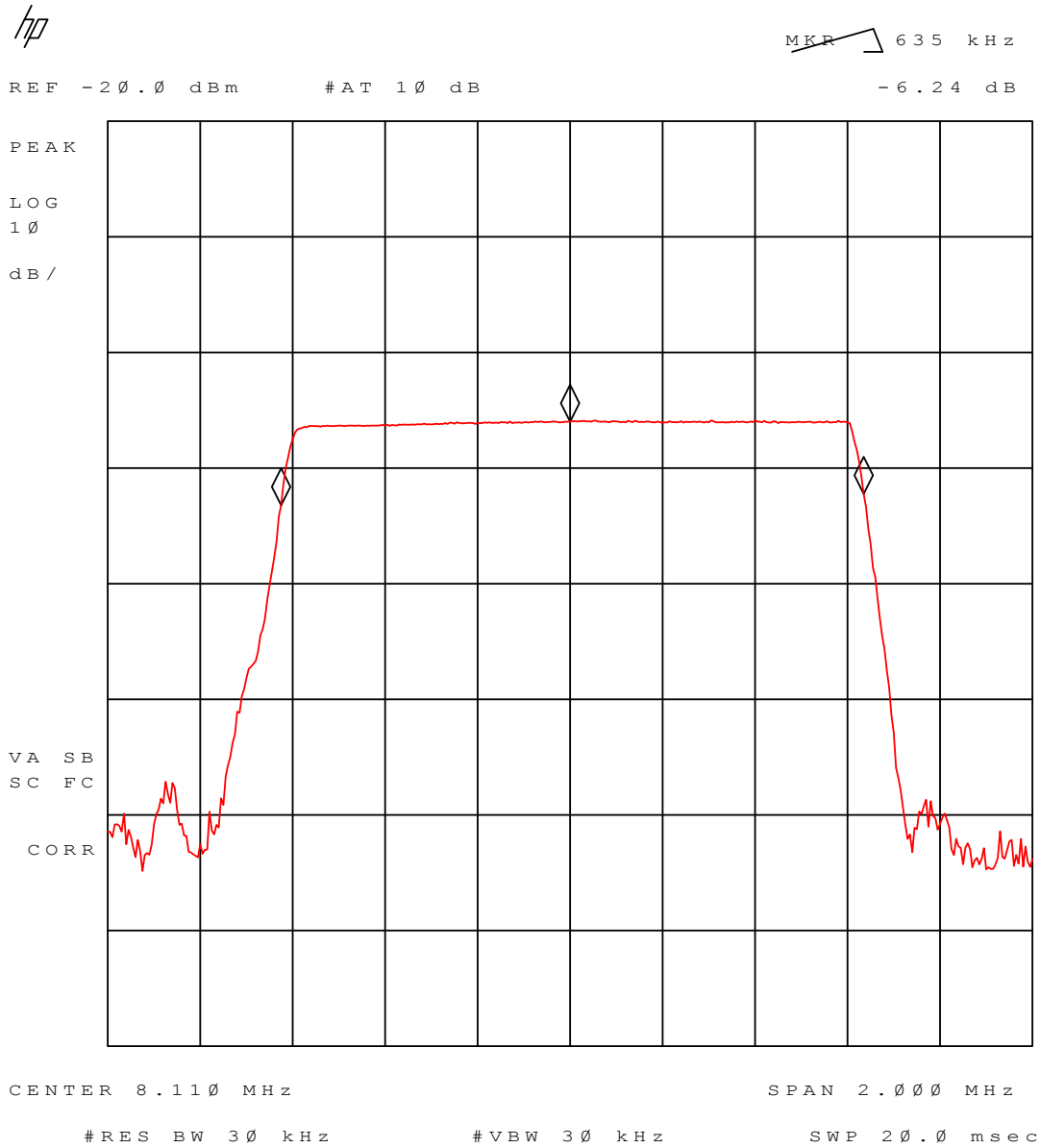


Figure 9 Emission bandwidth plot

Test engineer

Signature :

Name : J. Schuurmans

Date : January 20, 2004



Test specification(s): 47 CFR Part 15 (2003-12-08)
Description of EUT: Anti Pilferage System
Manufacturer: NEDAP N.V.
Brand mark: NEDAP
Model: NCC1/NR2/NT2/IO
FCC ID: CGD IQ-MD4

6 List of utilized test equipment.

Inventory number	Description	Brand	Type
12471	Biconical antenna 20MHz-200MHz	EATON	94455-1
12473	Log-per antenna 200-1000MHz	EATON	96005
12476	Antenna mast	EMCO	TR3
12477	Antenna mast 1-4 mtr	Poelstra	--
12482	Loop antenna	EMCO	6507
12483	Guidehorn	EMCO	3115
12484	Guidehorn	EMCO	3115
12488	Guidehorn 18 - 26.5 GHz	EMCO	RA42-K-F-4B-C
12533	Signalgenerator	MARCONI	2032
12559	Digital storage oscilloscope	Le Croy	9310M
12561	DC Power Supply 20A/70V	DELTA	SM7020D
12567	Plotter	HP	7440A
12605	calibrated dipole 28MHz-1GHz	Emco	3121c
12608	HF milliwattmeter	Hewlett Packard	HP435a
12609	Power sensor 10MHz-18GHz	Hewlett Packard	HP8481A
12636	Polyester chamber	Polyforce	--
12640	Temperature chamber	Heraeus	VEM03/500
13664	Spectrum analyzer	HP	HP8593E
13078	Preamplifier 0.1 GHz - 12 GHz	Miteq	AMF-3D-001120-35-14p
13452	Digital multi meter	HP	34401A
13526	Signalgenerator 20 GHz	Hewlett & Packard	83620A
13594	Preamplifier 10 GHz - 25 GHz	Miteq	AMF-6D-100250-10p
13886	Open Area testsite	Comtest	--
14051	Anechoic room	Comtest	--
14450	2.4 GHz bandrejectfilter	BSC	XN-1783
15633	Biconilog Testantenna	Chase	CBL 6111B
15667	Measuring receiver	R&S	ESCS 30
99045	DC Power Supply 3A/30V	DELTA	E030/3
99055	Non-conducting support	NMi	--
99061	Non-conducting support 150cm	NMi	--
99068	Detector N-F/BNC-F	Radiall	R451576000
99069	Cable 5m RG214	NMi	--
99071	Cable 10m RG214	NMi	--
99076	Bandpassfilter 4 - 10 GHz	Reactel	7AS-7G-6G-511
99077	Regulating trafo	RFT	LTS006
99112	Tripod	Chase	--
99136	Bandpassfilter 10 - 26.5 GHz	Reactel	9HS-10G/26.5G-S11



7 Appendix

Calculated measurements results radiated field strength, H-Field

General Formula:

d_s = short distance; H_s is field strength at short distance

d_l = long distance; H_l is field strength at long distance

$$(d_s/d_l)^n = H_l/H_s \dots\dots\dots[\text{eq1}]$$

$$n \log(d_s/d_l) = \log(H_l/H_s) \text{ or } n = \log(H_l/H_s) / \log(d_s/d_l)$$

Calculation of n, for measured field strengths (Configuration I, passive mode)

$$H_s = 66.9 \text{ dB}\mu\text{V/m} = 2213.1 \mu\text{V/m}$$

$$H_l = 41.9 \text{ dB}\mu\text{V/m} = 124.45 \mu\text{V/m}$$

$$n = \log(124.45/2213.1) / \log(3/10)$$

$$n = 2.39$$

Calculated field strength at new distance, from the 10 meter value:

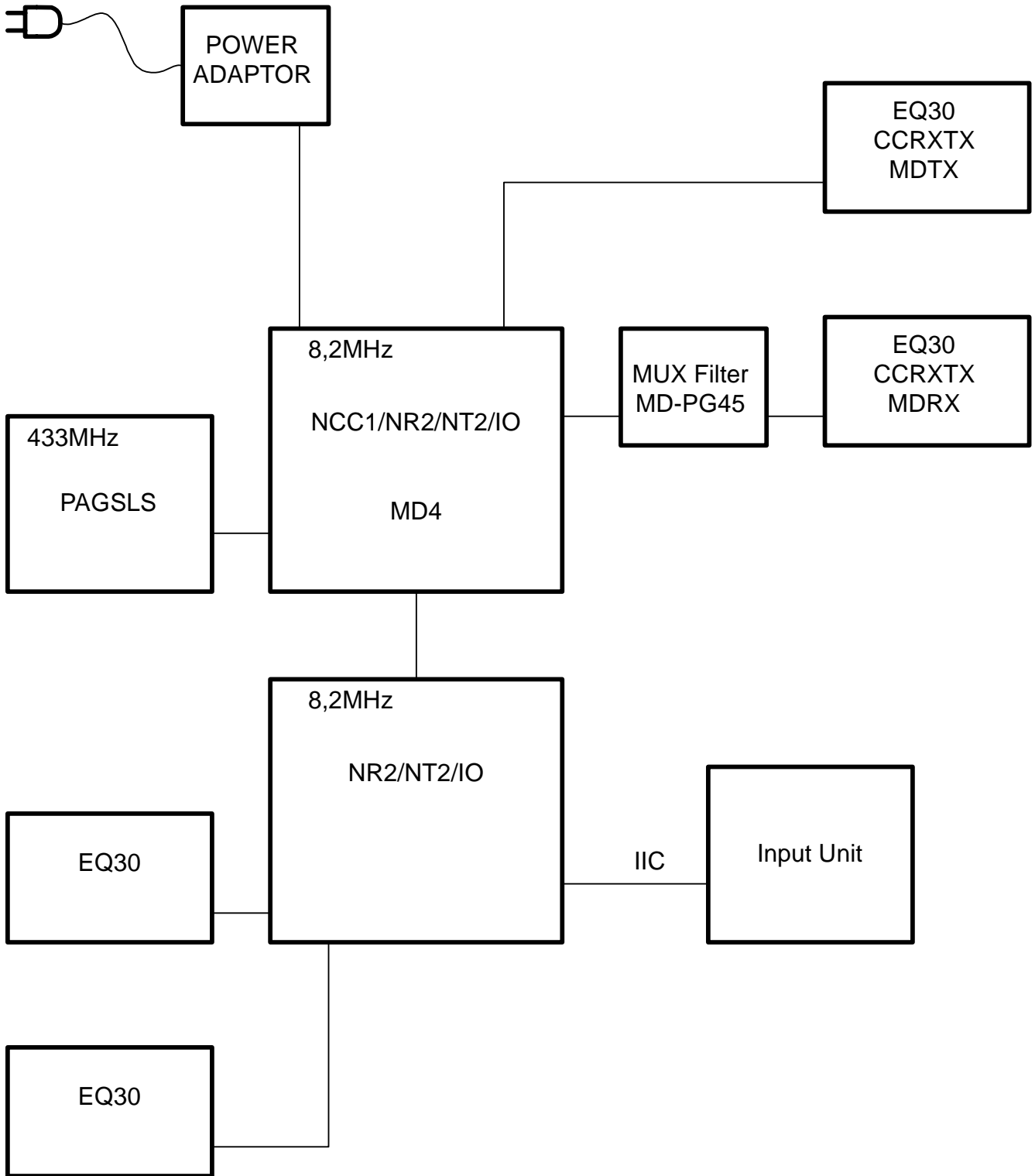
H_s now becomes $H_s = 124.45 \mu\text{V/m}$ and $d_s=10$

Assume $d_l=30$

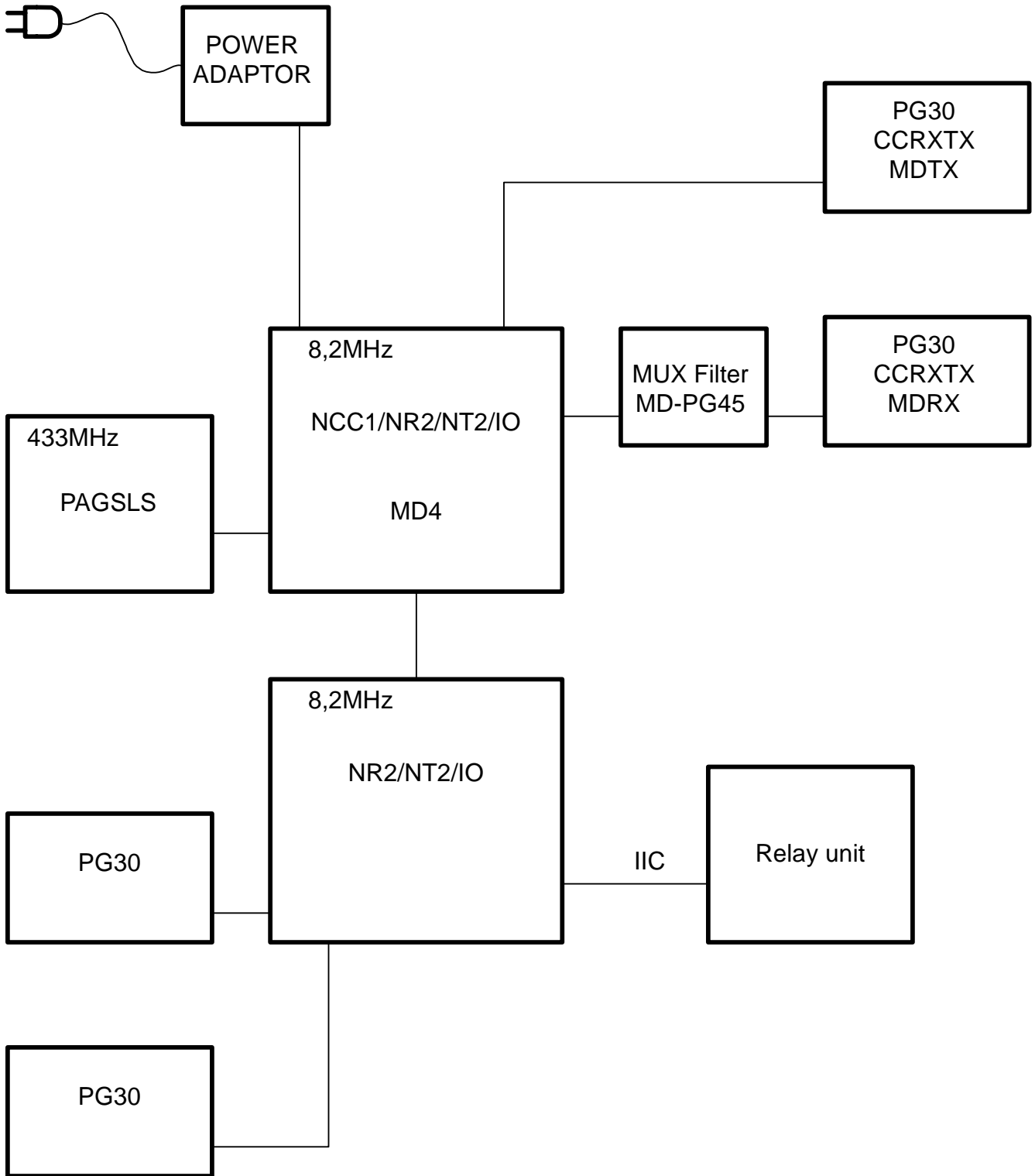
Now from [eq1] H_l becomes:

$$H_l = H_s * (d_l/d_s)^{-n}$$

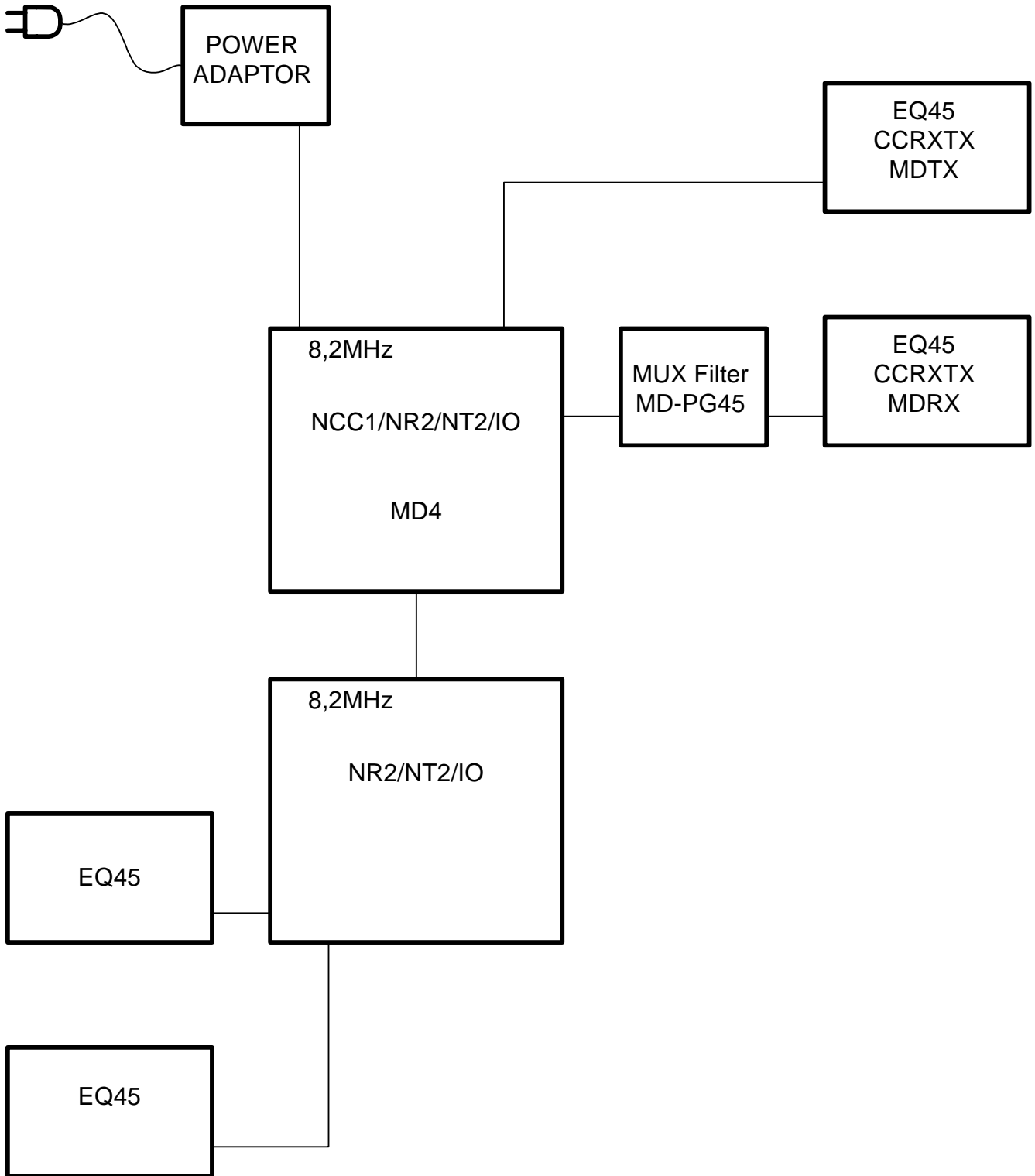
$$\text{So } H_l = 124.45 * (30/10)^{-2.39} = 9.00 \text{ uV/m or } 19.1 \text{ dBuV}$$



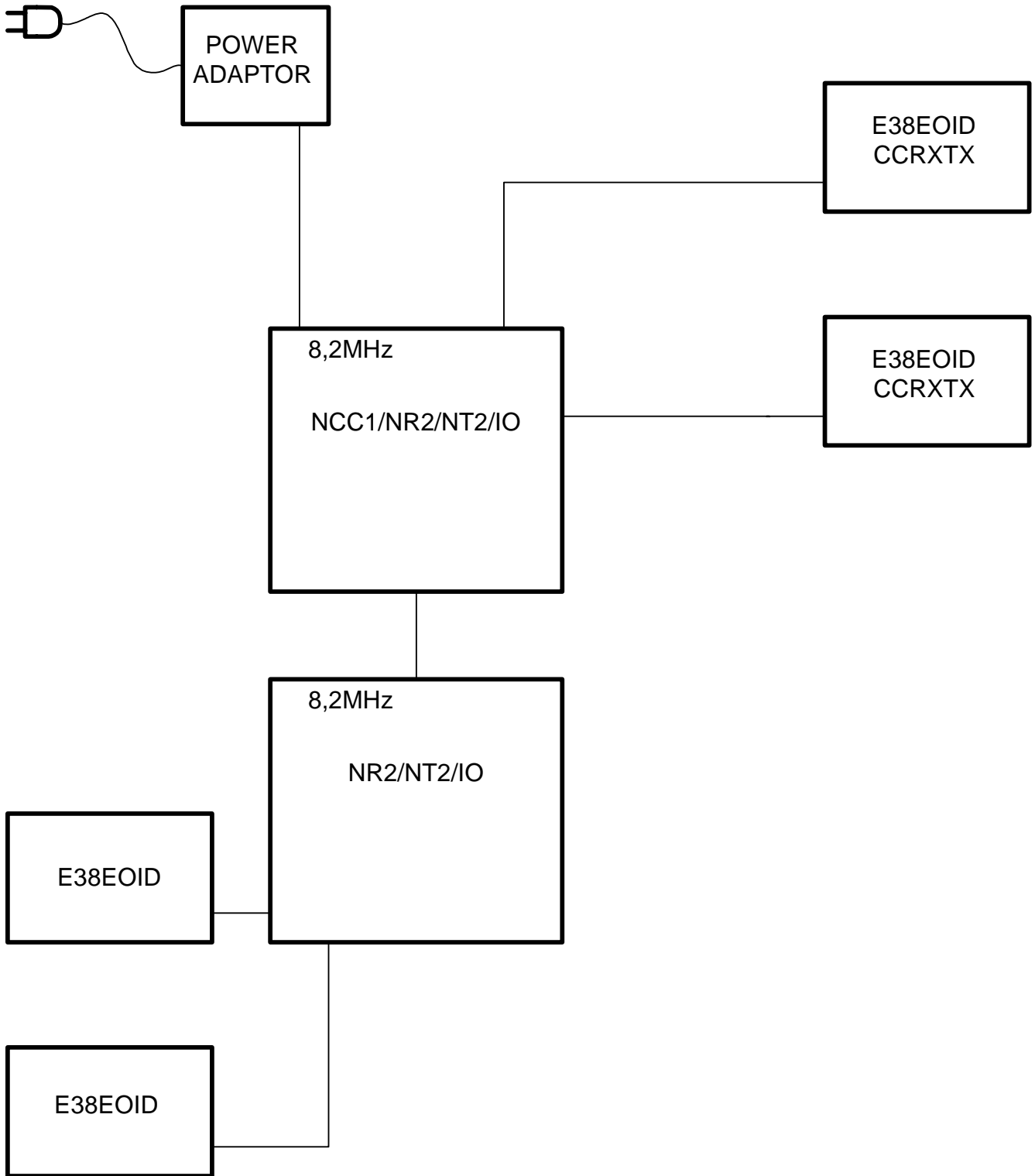
Configuration 1.



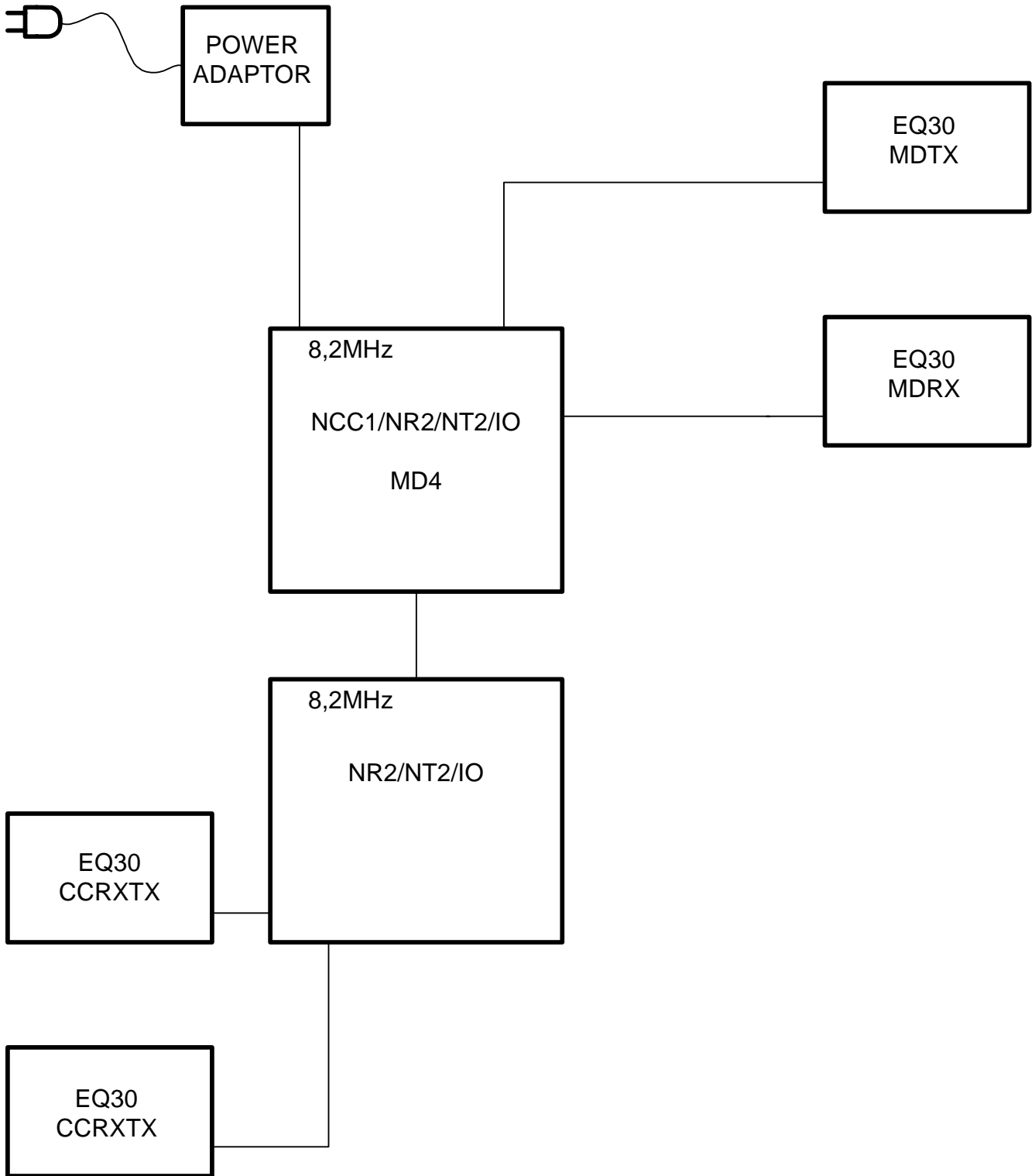
Configuration 2.



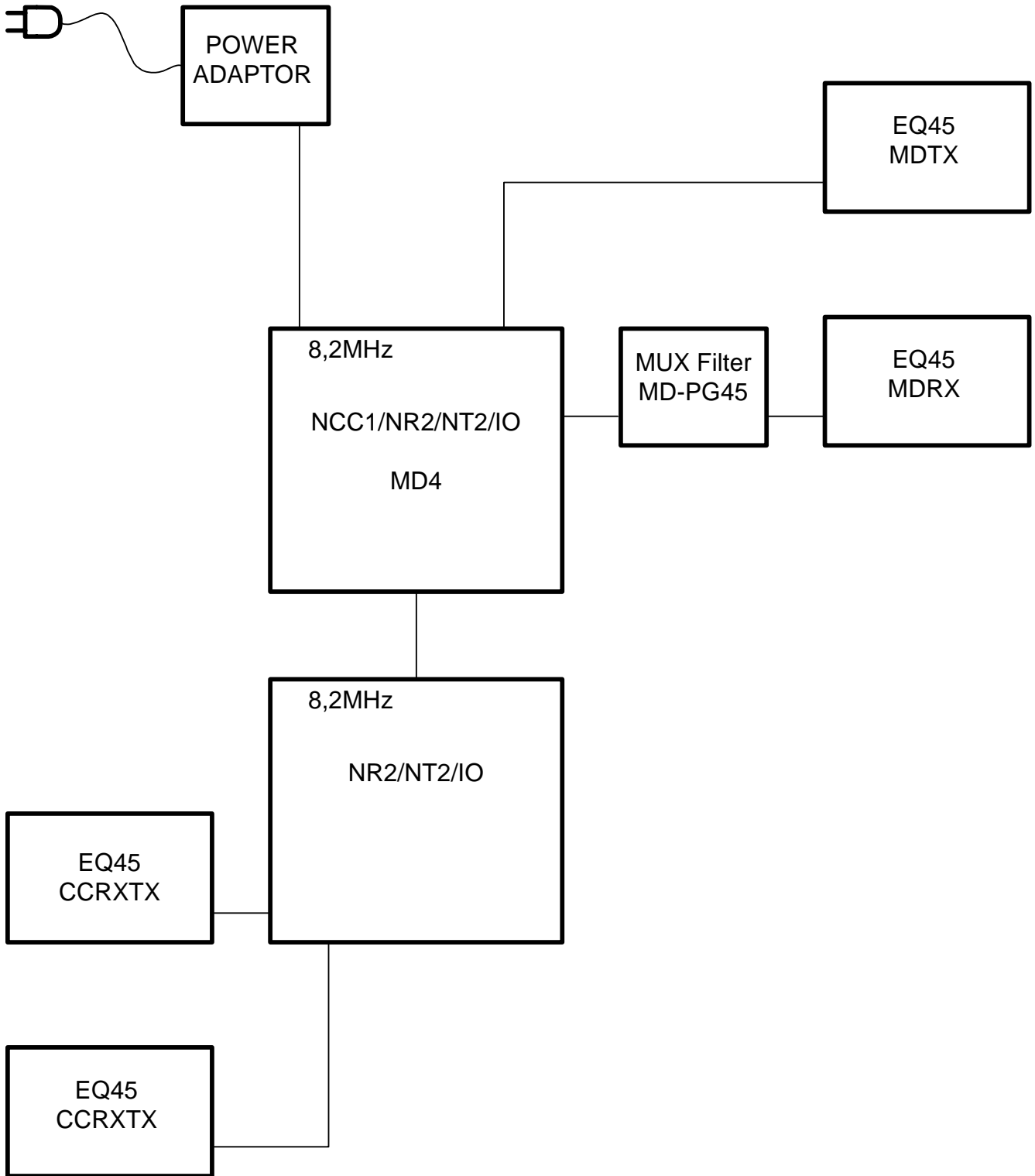
Configuration 3.



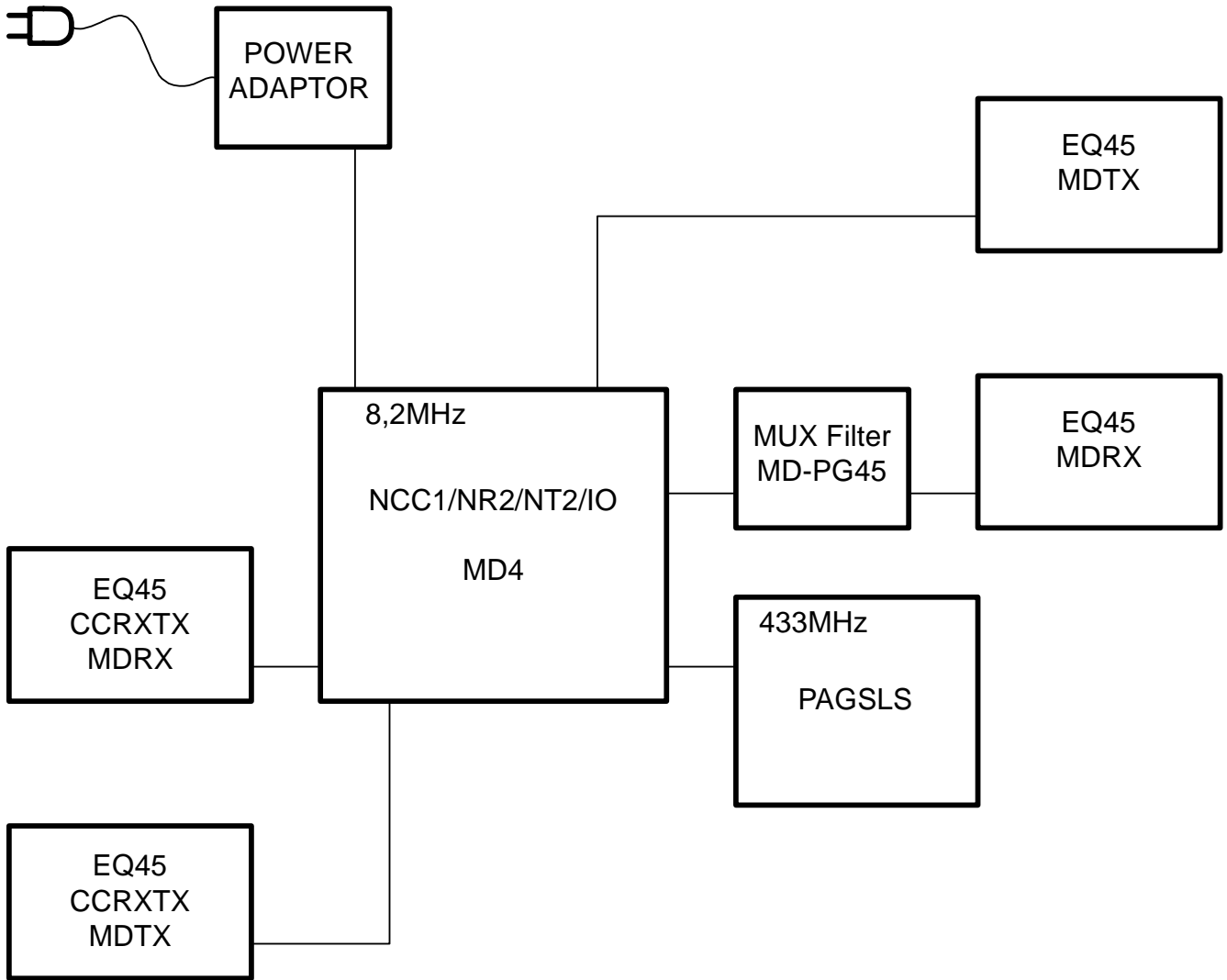
Configuration 4.



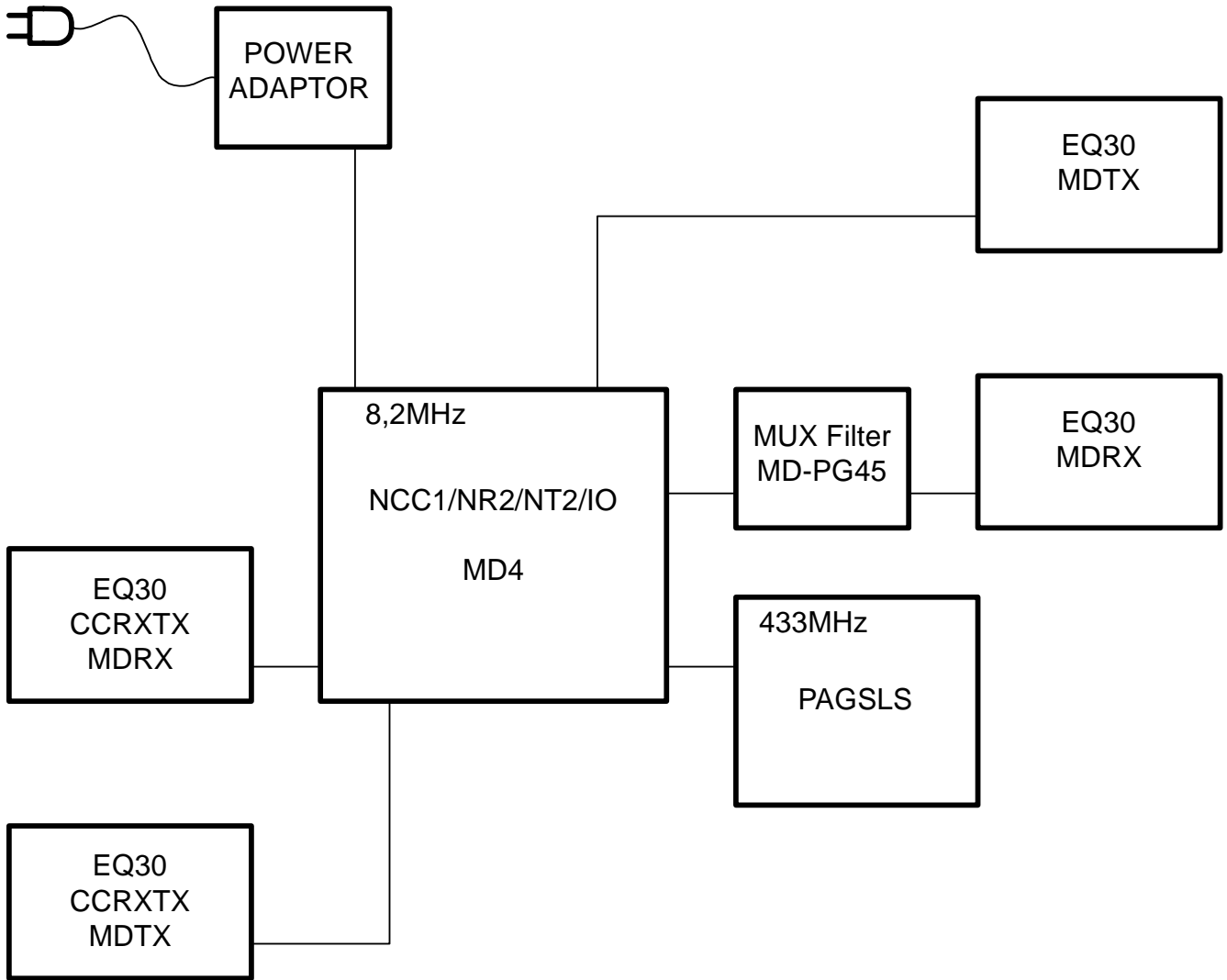
Configuration 7.



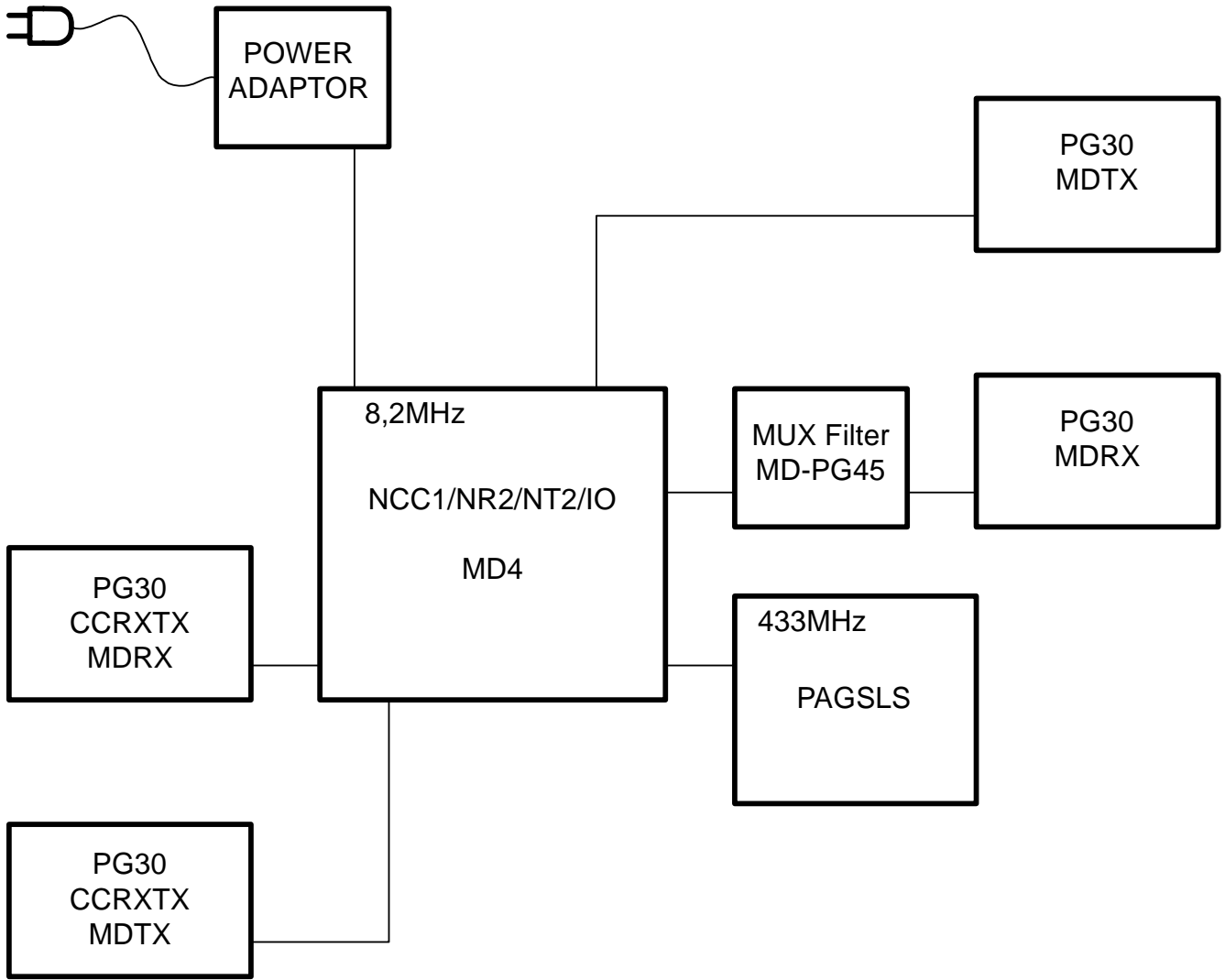
Configuration 8.



Configuration 14.



Configuration 15.



Configuration 16.