

Recognized by the
Federal Communications Commission
Anechoic chamber registration no.: 90462 (FCC)
Anechoic chamber registration no.: IC 3463A-1
TCB ID: DE 0001



Accredited by the
German Accreditation Council
DAR-Registration Number
DGA-PL-176/94-D1



Accredited Bluetooth® Test Facility (BQTF)

Test report no.	: 1-1457-1-3/09
Applicant	: Krohne S.A.S
Type	: Optiwave 6300 C Optiwave 7300 C
Test Standard	: FCC Part 15.209 RSS210 Issue 7
FCC ID	: JH5-FMCW2463
Certification No. IC	: 1991B-FMCW2463

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1 General information

1.1 Administrative data of the test facility

1.1.1 Identification of the testing laboratory

Company name:	Cetecom ICT Services GmbH
Address:	Untertürkheimerstr. 6-10 D-66117 Saarbruecken Germany
Laboratory accreditation:	DAR-Registration No. DGA-PL-176/94-D1 Bluetooth Qualification Test Facility (BQTF) Federal Communications Commission (FCC)
Responsible for testing laboratory:	Identification/Registration No : 90462 Nicolas Stamber Phone: +49 681 598 0 Fax: +49 681 598 9075 email: info@ict.cetecom.de

1.2 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.



.....
Responsible for testing laboratory
(Karsten Gerald)



.....
Responsible for test report
(Nicolas Stamber)

1.3 Details of Applicant

Name : Krohne S.A.S.
Address : Les Ors
City : 26103 Romans Cedex
Country : France
Phone : +33 (0) 475 057 035
Fax : +33 (0) 475 050 048
Contact : Mr. Vincent Pichot
Phone : +33 (0) 475 057 035
Fax : +33 (0) 475 050 048
e-mail : vpichot@krohne.fr

1.4 Application Details

Date of receipt of application : 2009-06-19
Date of receipt of test item : 2009-07-02
Date(s) of test : 2009-07-02, 2009-07-03, 2010-02-22, 2010-02-23
Date of report : 2010-02-23

1.5 Test Item

Type of equipment	:	Field Disturbance Sensor, Tanks Level Probing Radar
Model name	:	Optiwave 6300 C, Optiwave 7300 C
Manufacturer	:	Krohne S.A.S.
Address	:	Les Ors
City	:	26103 Romans Cedex
Country	:	France
Tested to Radio Standards Specification(RSS) No.	:	210 Issue 7 / FCC Part 15.209
Open Area Test Site Industry Canada Number	:	IC 3462C-1
Frequency Range (or fixed frequency)	:	Tx/Rx: 24.070 – 26.255 GHz
Conducted Power	:	-11.6 dBm
Field Strength (at what distance)	:	51.30 dBμV/m in 3m (mounted in a tank)
Occupied Bandwidth	:	2.185 GHz
Type of Modulation	:	FMCW (unmodulated signal)
Emission Designator	:	2G19N0N
Antenna Information	:	Dielectric Elliptic Antenna (waveguide) mounted in a tank, Horn Antenna (waveguide) mounted in a tank
Transmitter Spurious (worst case)	:	50.93 dBμV/m in 3m
IC no.	:	1991B-FMCW2463
FCC ID	:	JH5-FMCW2463

ATTESTATION:

DECLARATION OF COMPLIANCE: I declare that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

Laboratory Manager :



2010-02-23

Nicolas Stamber

Date

Name

Signature

1.6 Test Setup

Hardware : --
Software : Special test mode (carrier stopped at low / mid / high frequency)

Equipment was mounted in a test tank (iron sheet 1mm)

1.7 Test Specifications

FCC:	CFR Part 15.209	Radiated Emission Limits, General Requirements
IC:	RSS 210, Issue 7	

2 Statement of Compliance

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

2.1 Summary of Measurement Results

2.1.1 CFR 47 Part 15 Radio frequency devices /RSS 210

Section in this Report	Test Name / Section FCC Part 15 /RSS 210	Measurement applicable	Verdict
3.1	RSS-210 Issue 7, Annex 11.2 Emission Bandwidth	YES	PASS
3.2	RSS-210 Issue 7 Annex 11.1 (b) Conducted Output Power	YES	PASS
3.3	RSS-210 Issue 7, Annex 11.1 (e) Field Strength of the Fundamental	YES	PASS
3.4	RSS-210 Issue 7, § 2.6; § 15.209 Field Strength of the Spurious Emissions / Radiated Spurious Emissions	YES	PASS
3.5	§ 15.207 (a) Conducted Emissions	YES	PASS

3 Measurements and results

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 110 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber.

The receiving antennas are conform with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2003 clause 4.1.5. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test set-ups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received.

The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.4-2003 clause 4.2.

Antennas are conform with ANSI C63.2-1996 item 15.

30 MHz - 200 MHz: Quasi Peak measurement, 120 kHz Bandwidth, biconical antenna.

200MHz - 1GHz: Quasi Peak measurement, 120 kHz Bandwidth, log periodic antenna.

>1GHz: Positive Peak Measurement, 1 MHz Bandwidth, waveguide horn.

All measurement settings are according to FCC 15.209 and 15.207

3.1 Emission Bandwidth

Reference

IC:	RSS-210 Issue 7, Annex 11.2
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Results:

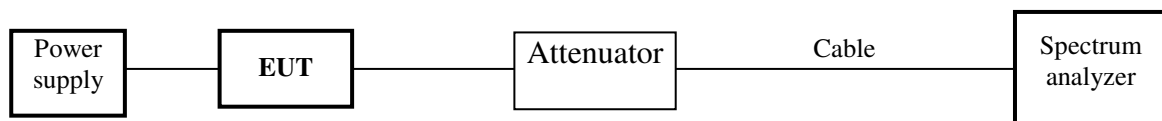
Bandwidth sweep mode	2.185 GHz
Low frequency	24.070 GHz
High frequency	26.255 GHz
20 dB Bandwidth low channel (sweep stopped)	303 kHz
20 dB Bandwidth mid channel (sweep stopped)	213 kHz
20 dB Bandwidth high channel (sweep stopped)	170 kHz

Limit: RSS 210 Issue 7, Annex 11.2

Devices that are totally enclosed in containers can be certified when the frequency is narrowband or wideband, swept or unswept, provided that the emission bandwidth does not fall into the restricted bands of Table 1.

Test Setup:

The emission bandwidth is determined with a spectrum analyzer in sweep mode and with sweep mode stopped.

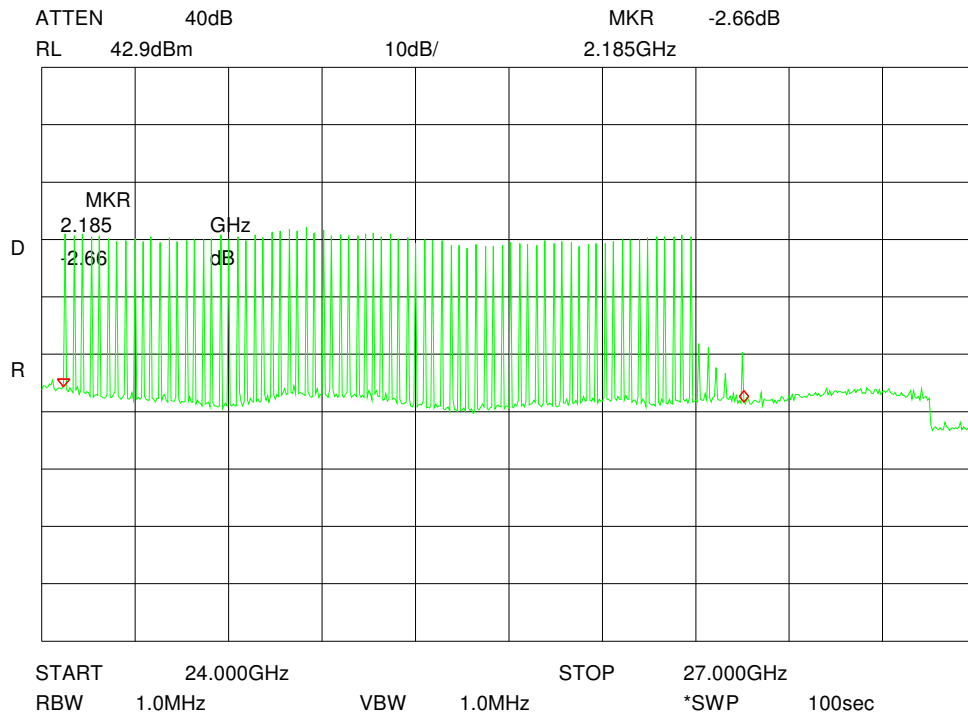


Test report no.: 1-1457-1-3/09

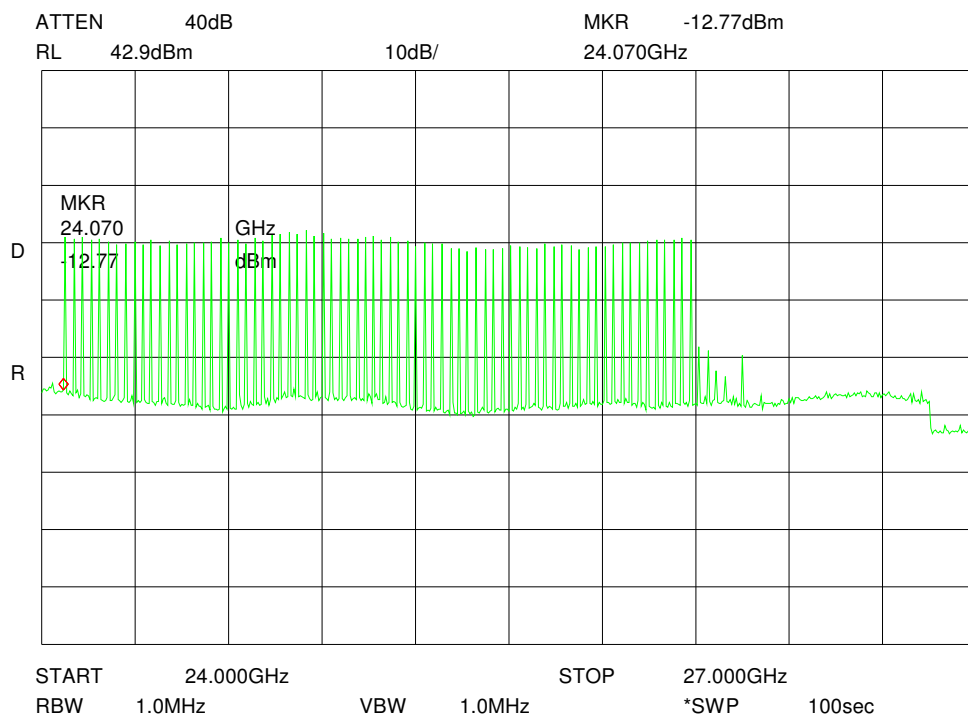
Date: 2010-02-23

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Bandwidth sweep mode:



Low frequency:

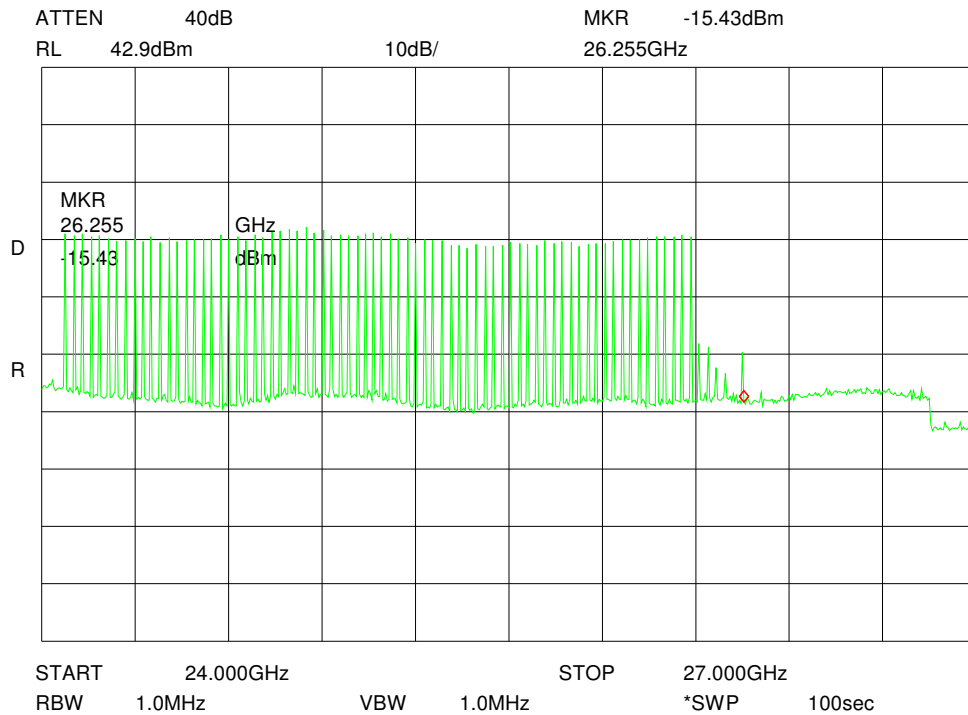


Test report no.: 1-1457-1-3/09

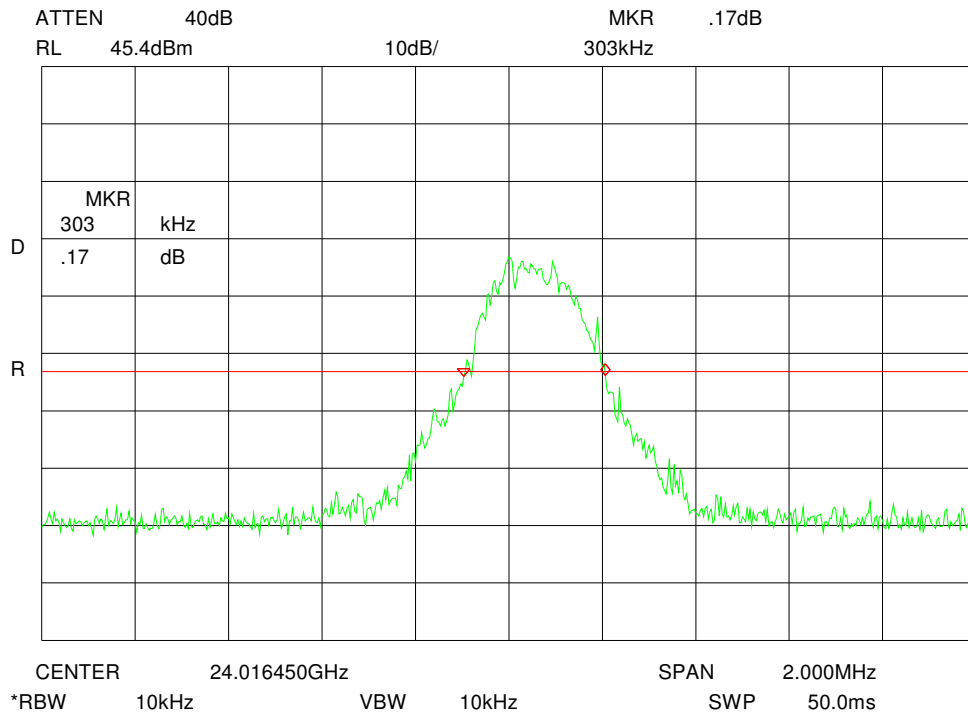
Date: 2010-02-23

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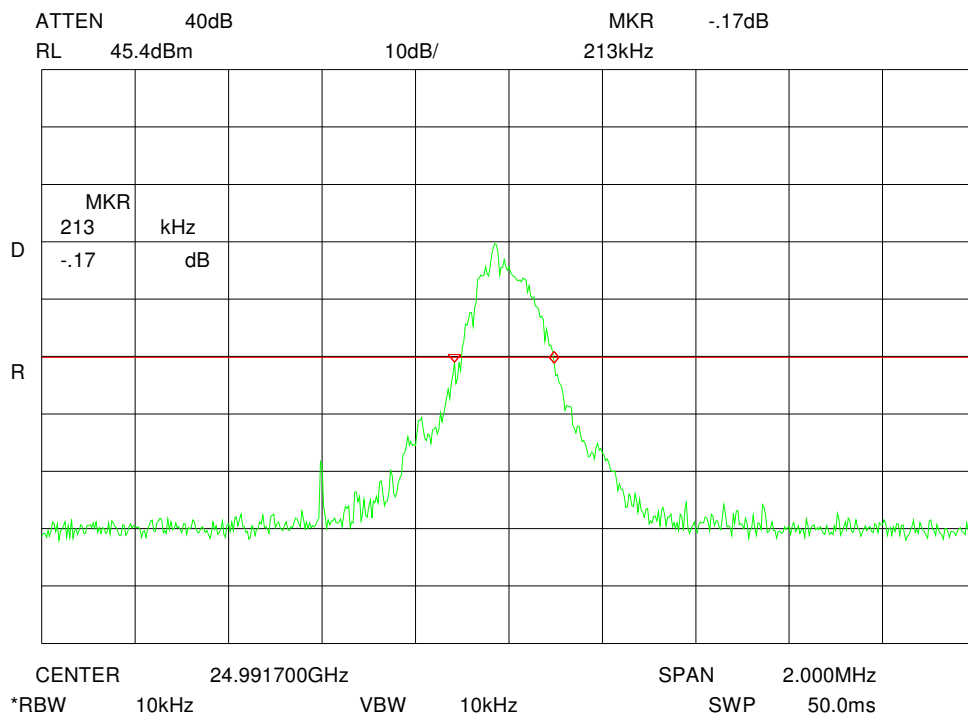
High frequency:



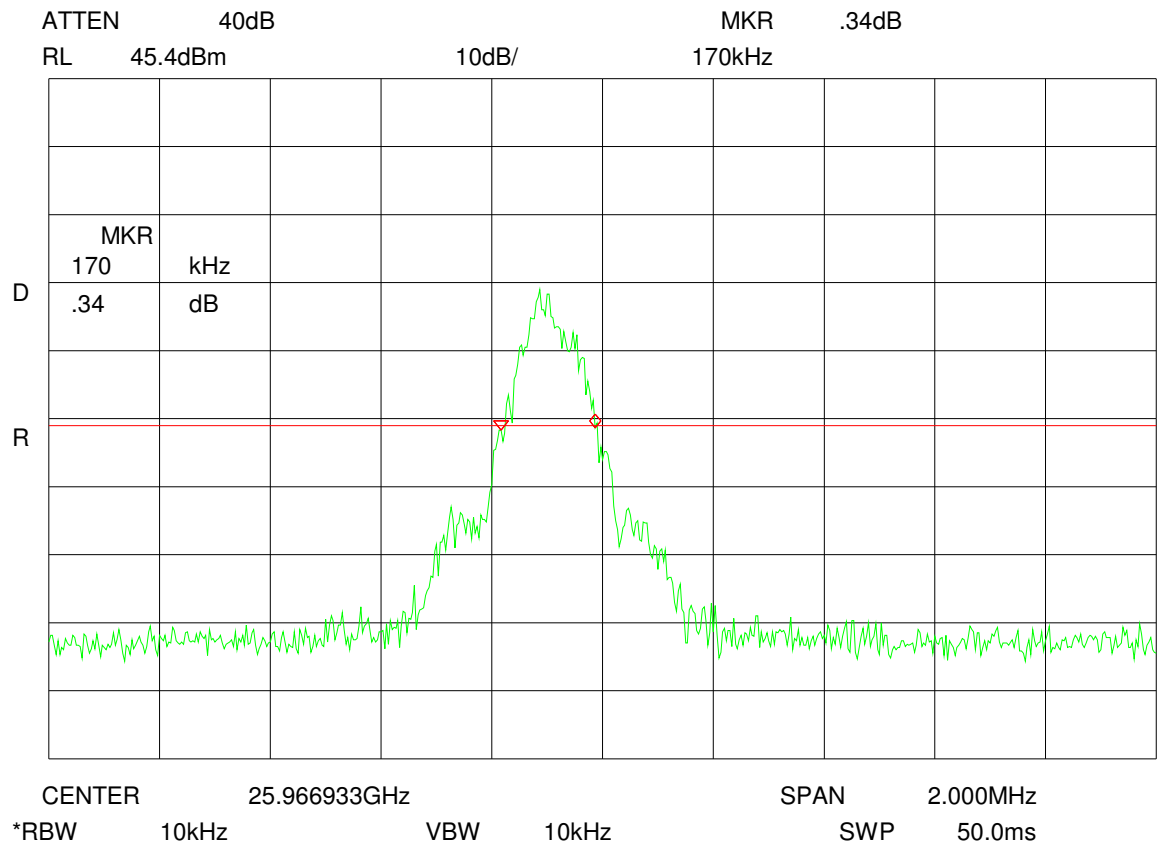
20 dB Bandwidth low channel (sweep mode stopped):



20 dB Bandwidth mid channel (sweep mode stopped):



20 dB Bandwidth high channel (sweep mode stopped):



3.2 Conducted Output Power

Reference

IC:	RSS-210 Issue 7 Annex 11.1(b)
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Results:

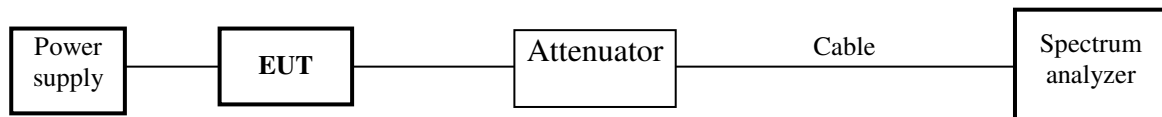
Operation mode:	Conducted output power
Low channel	55.0 μ W (-12.60 dBm)
Mid channel	69.2 μ W (-11.60 dBm)
High Channel	57.1 μ W (-12.43 dBm)

Limits: RSS-210 Issue 7 Annex 11.1(b)

The transmitter output power shall not exceed 8 milliwatts at the connector to the antenna.

Test Setup:

The conducted output power is determined with a spectrum analyzer with sweep mode stopped.

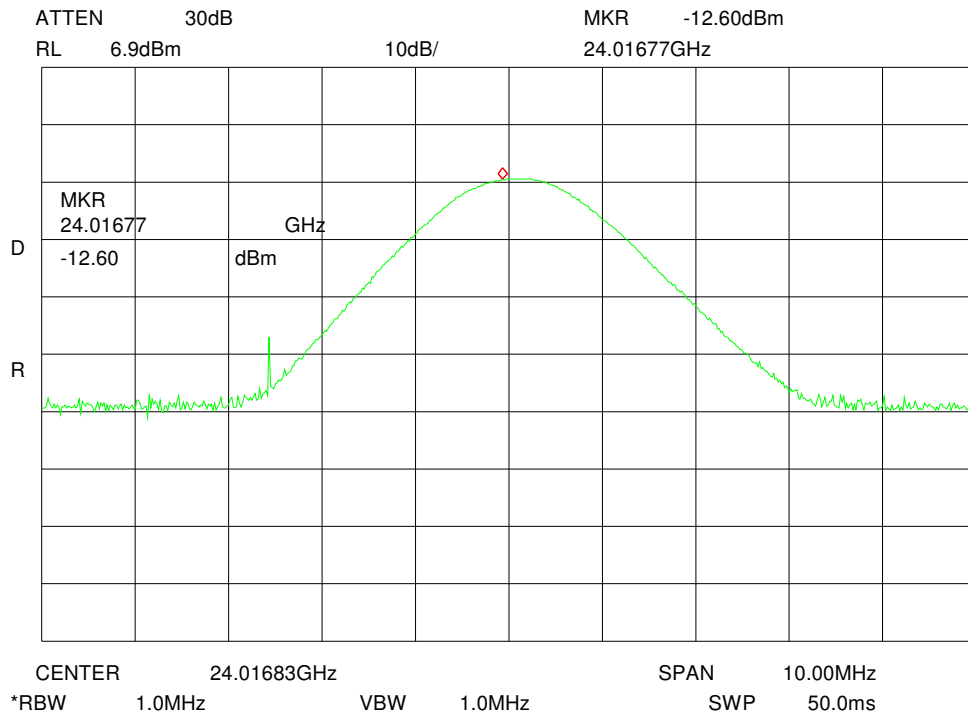


Test report no.: 1-1457-1-3/09

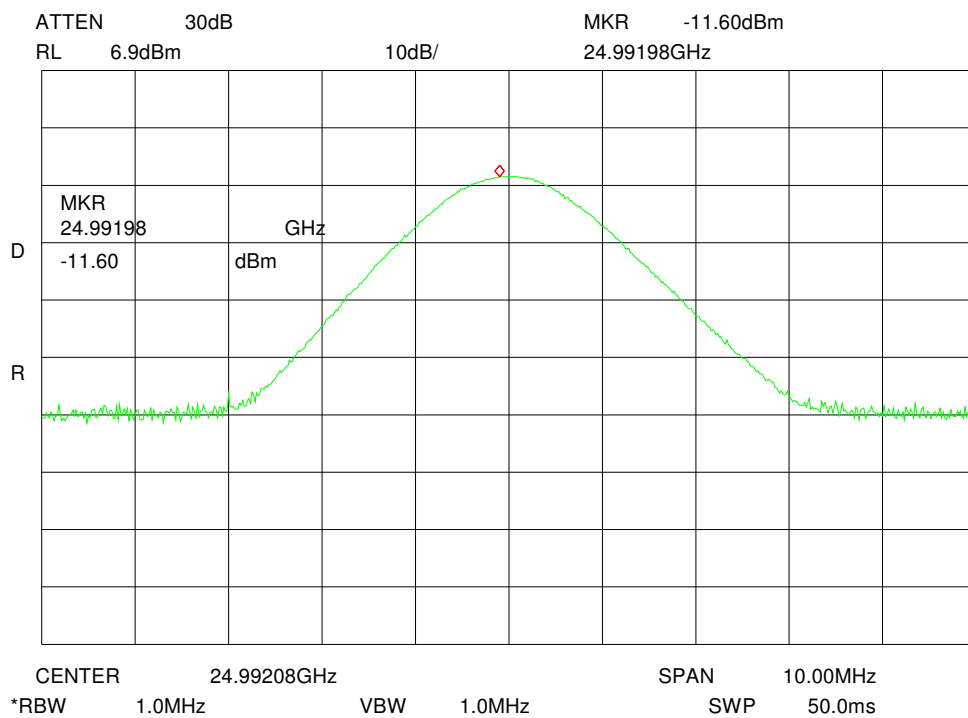
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Sweep stopped at low channel



Sweep stopped at mid channel

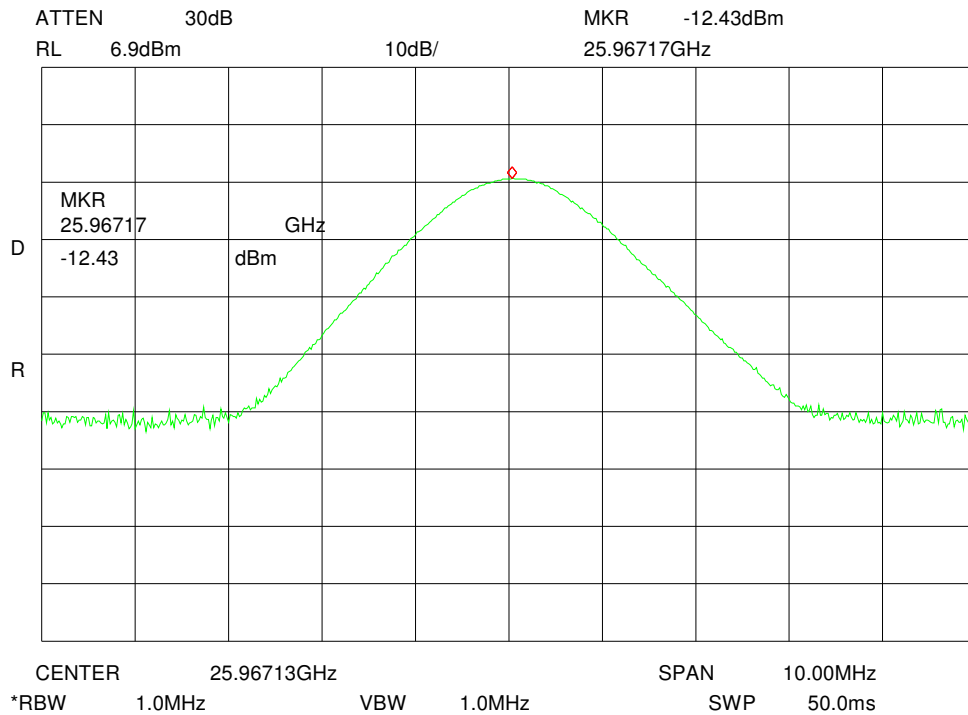


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Sweep stopped at high channel



3.3 Field Strength of the Fundamental

Reference

IC:	RSS-210 Issue 7, Annex 11.1 (e)
-----	---------------------------------

MAXIMUM FIELD STRENGTH RADIATED (PEAK)

TEST CONDITIONS EUT was operated inside a test tank Frequency sweep stopped low/mid/high Frequency: 24.070 – 26.255 GHz	MAXIMUM POWER (dB μ V/m at 3m)		
	Dielectric Elliptic Antenna	Horn Antenna	Limit
Angle = 0 degree / 360 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Angle = 45 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Angle = 90 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Angle = 135 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Angle = 180 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Angle = 225 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Angle = 270 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Angle = 315 degree	< Limit (see plot)	< Limit (see plot)	54 dB μ V/m
Maximum deviation from output power under extreme test conditions (dBc)	--	--	--
Measurement uncertainty	± 3 dB		

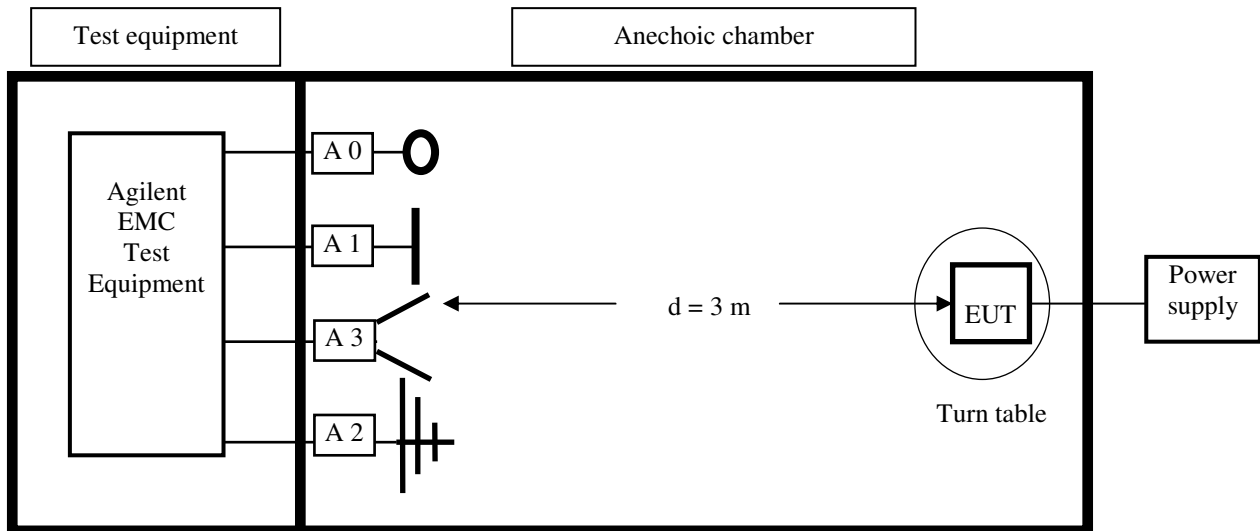
RBW/VBW : 1 MHz

Limits: RSS 210 Issue 7:

Table 2: General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz

30-88	100 (3 nW)
88-216	150 (6.8 nW)
216-960	200 (12 nW)
Above 960	500 (75 nW) = 54 dB μ V/m

Test Setup:



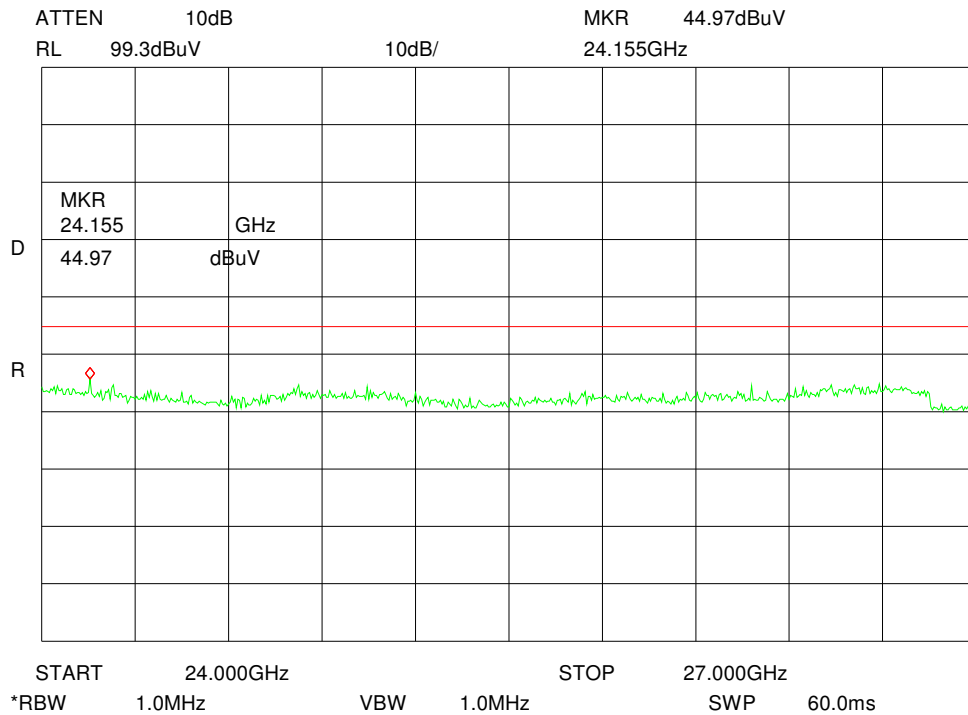
The field strength is measured in an anechoic chamber with a measurement distance of 3 m.
The EUT is standing on a turn table, which is turned in 45° steps.
Measurement antenna is a waveguide horn (A3 in the picture above).

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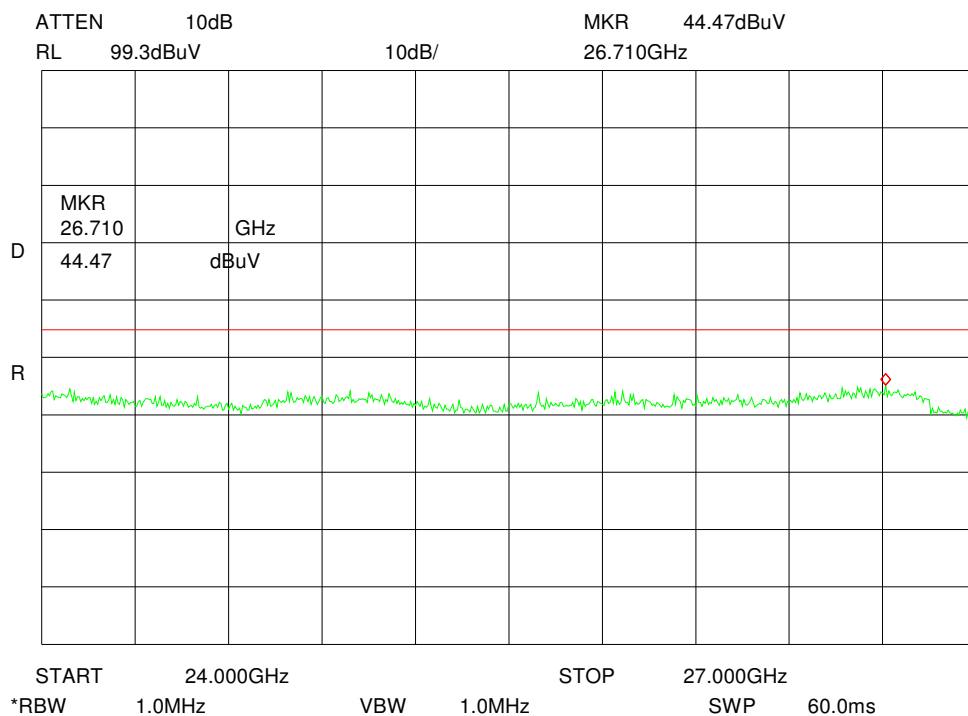
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Field strength of the fundamental (angle: 0 degree / 360 degree) **Dielectric Elliptic Antenna**



Field strength of the fundamental (angle: 45 degree) **Dielectric Elliptic Antenna**

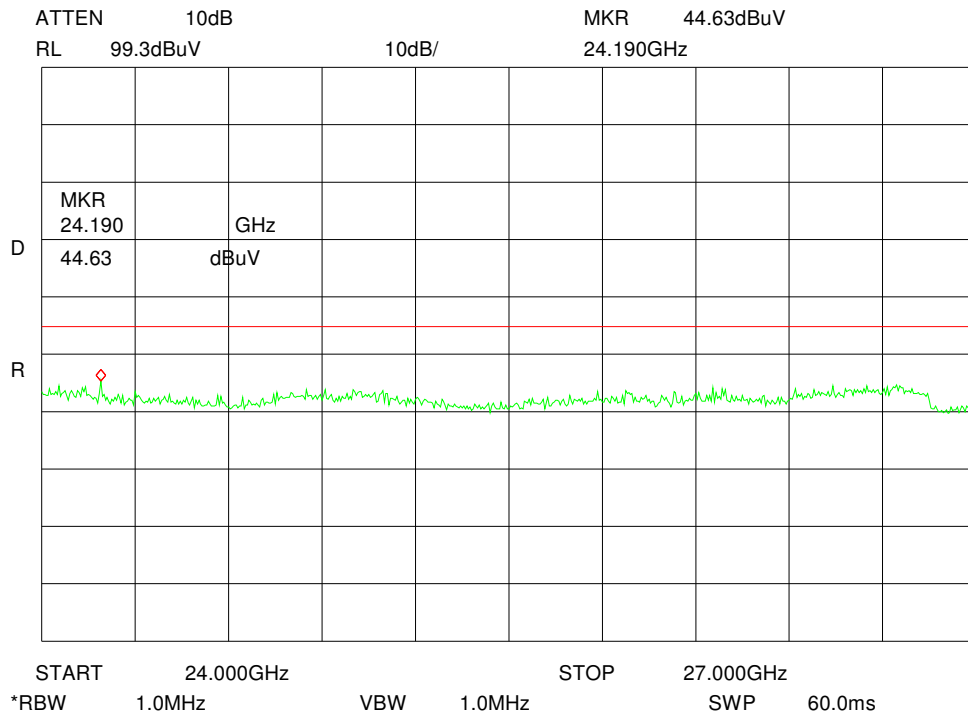


Test report no.: 1-1457-1-3/09

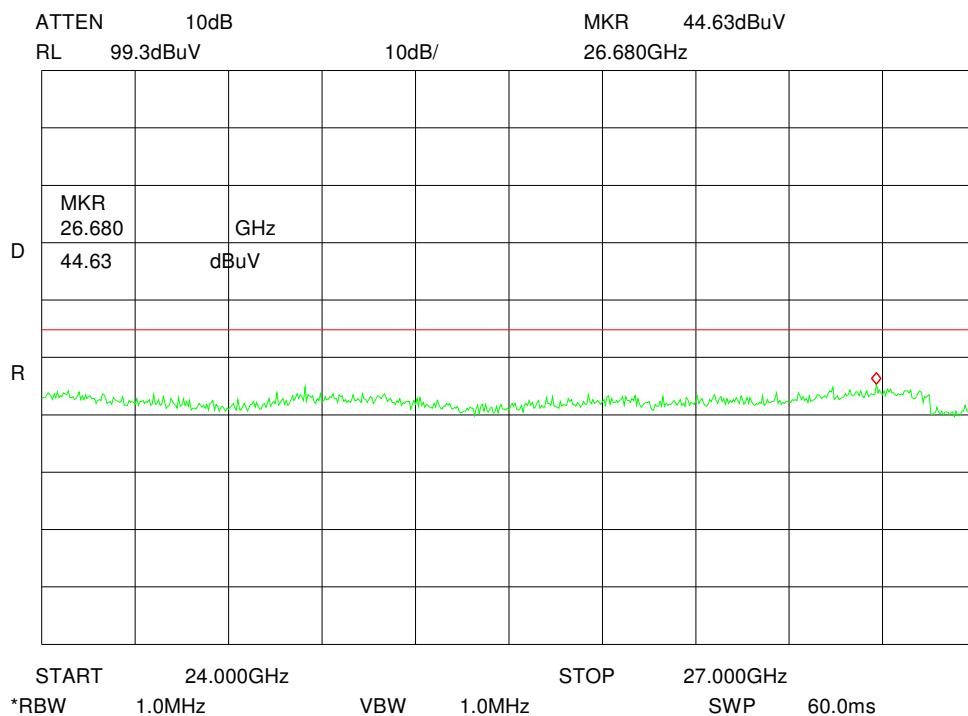
Date: 2010-02-23

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Field strength of the fundamental (angle: 90 degree) **Dielectric Elliptic Antenna**



Field strength of the fundamental (angle: 135 degree) **Dielectric Elliptic Antenna**

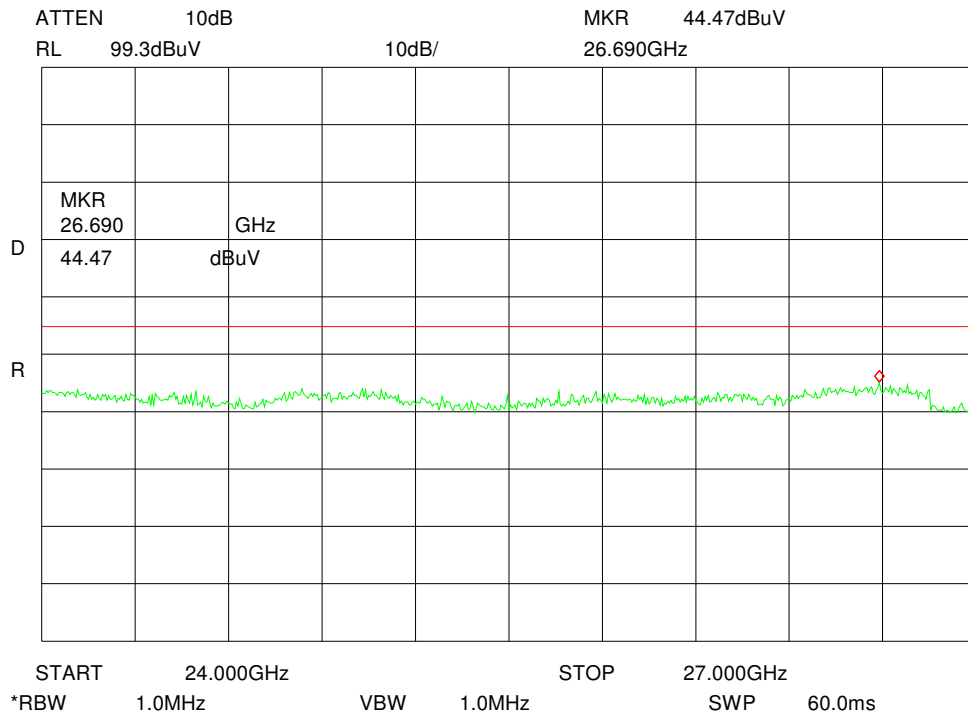


Test report no.: 1-1457-1-3/09

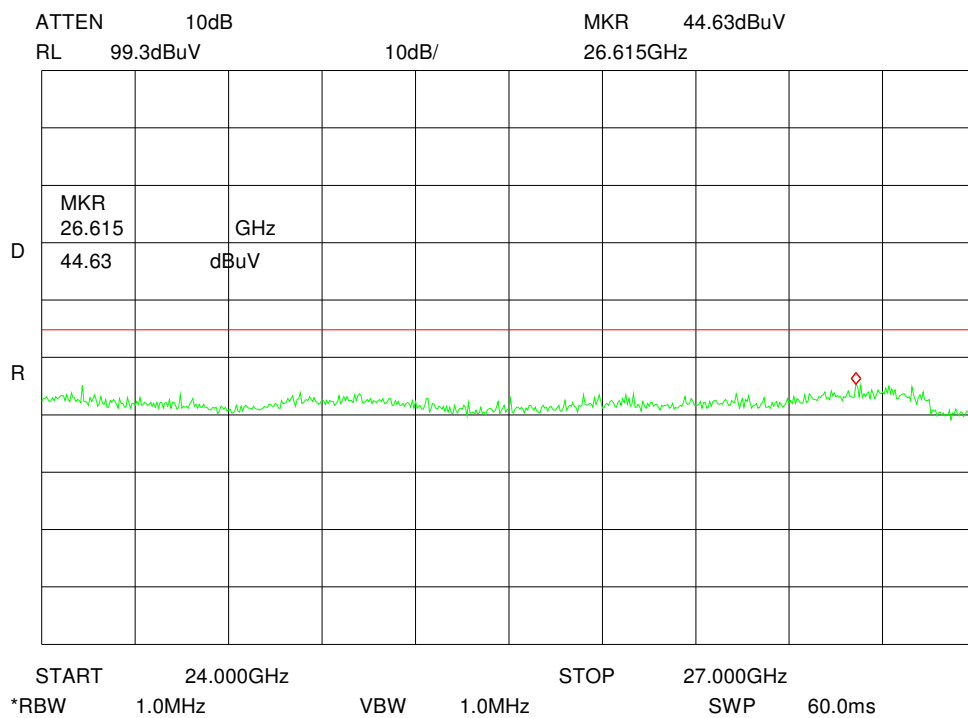
Date: 2010-02-23

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Field strength of the fundamental (angle: 180 degree) **Dielectric Elliptic Antenna**



Field strength of the fundamental (angle: 225 degree) **Dielectric Elliptic Antenna**

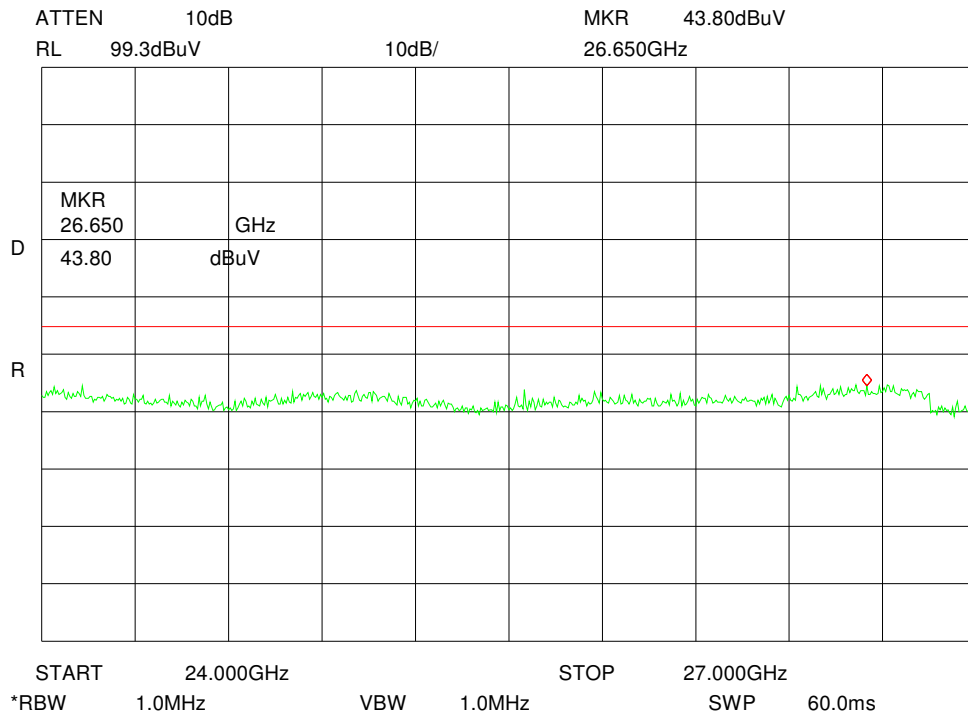


Test report no.: 1-1457-1-3/09

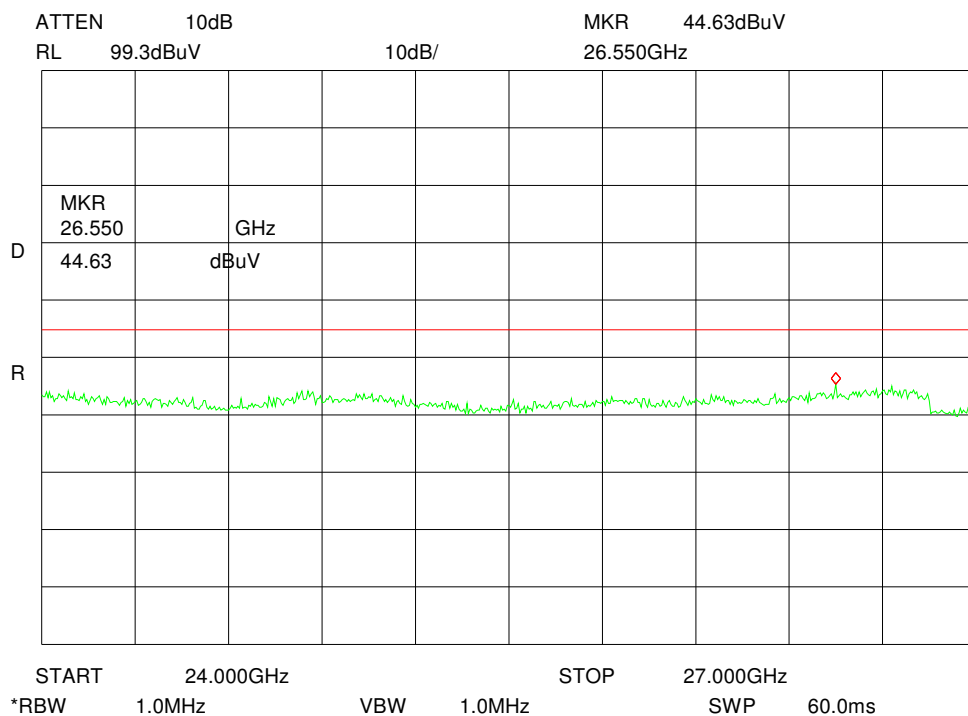
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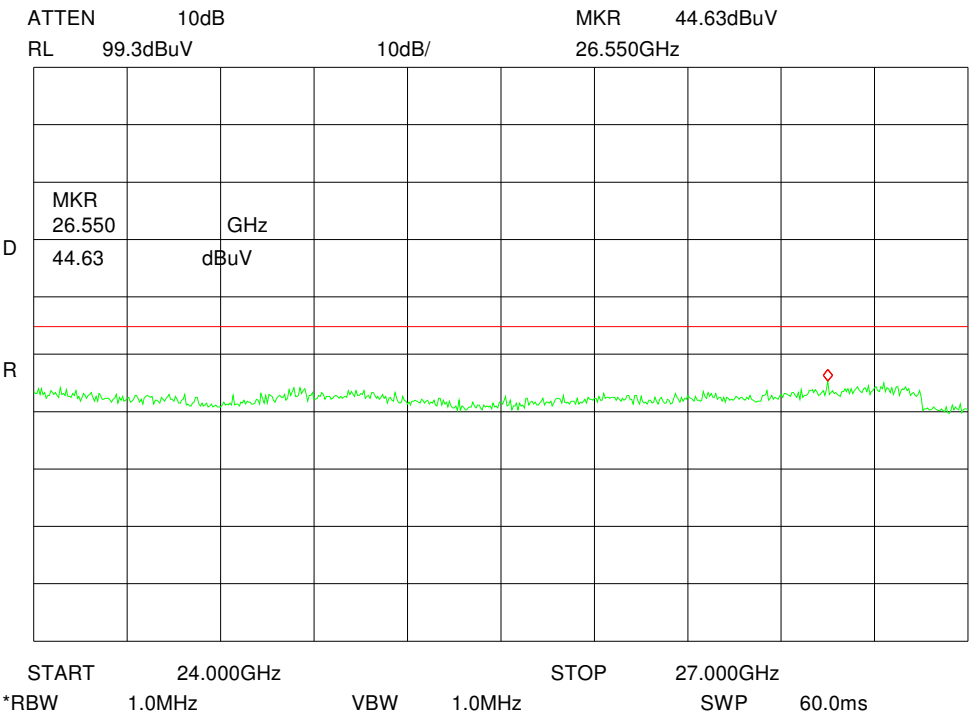
Field strength of the fundamental (angle: 270 degree) **Dielectric Elliptic Antenna**



Field strength of the fundamental (angle: 315 degree) **Dielectric Elliptic Antenna**



Field strength of the fundamental (top view) **Dielectric Elliptic Antenna**

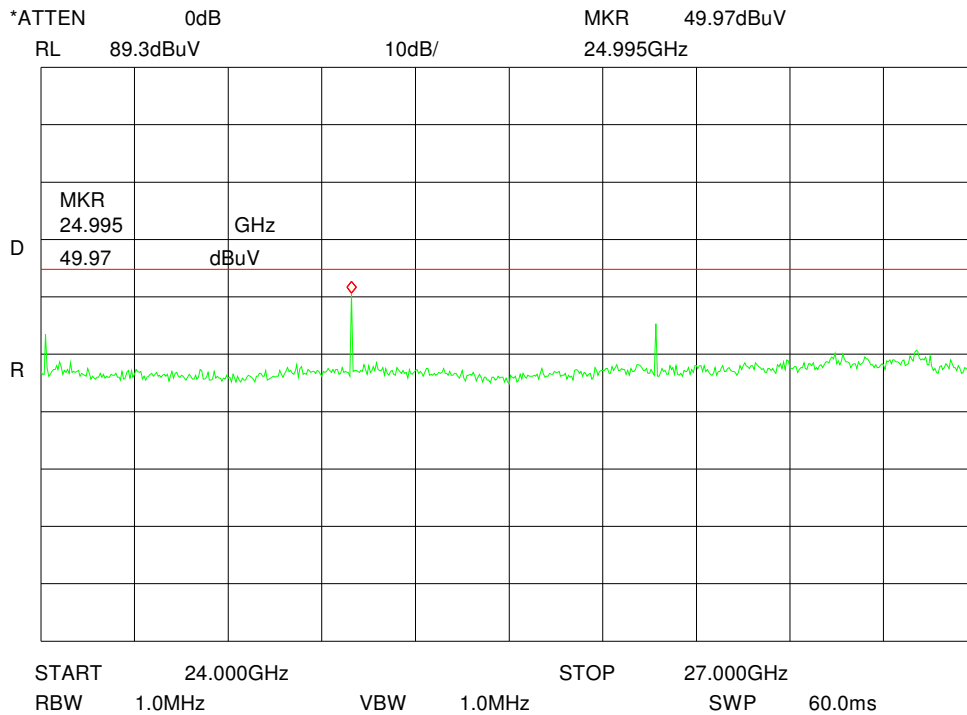


Test report no.: 1-1457-1-3/09

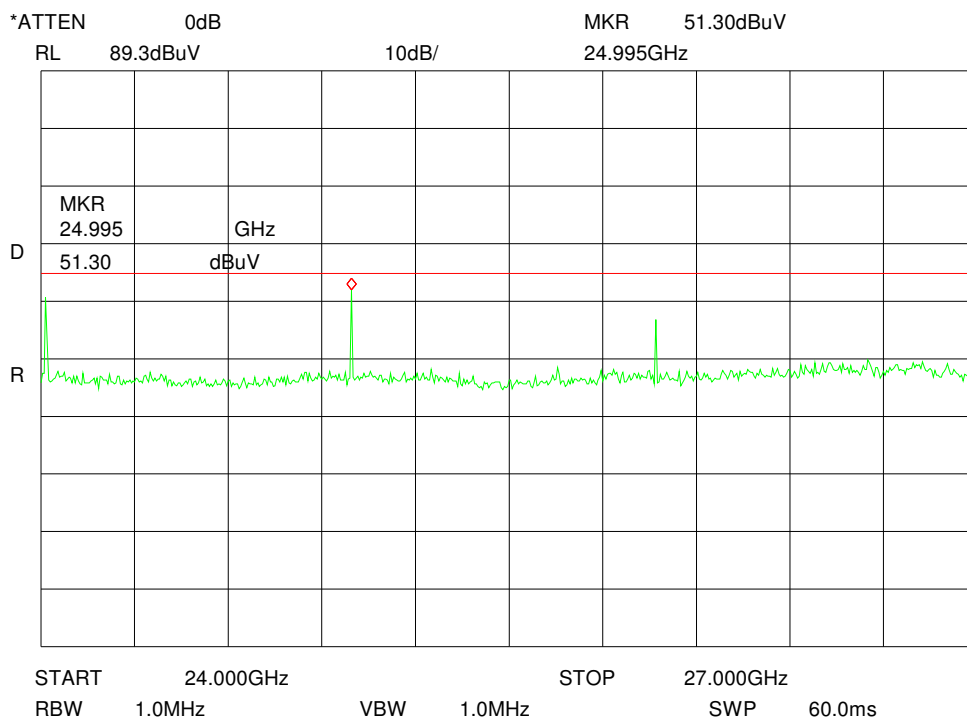
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Field strength of the fundamental (angle: 0 degree / 360 degree) **Horn Antenna**



Field strength of the fundamental (angle: 45 degree) **Horn Antenna**

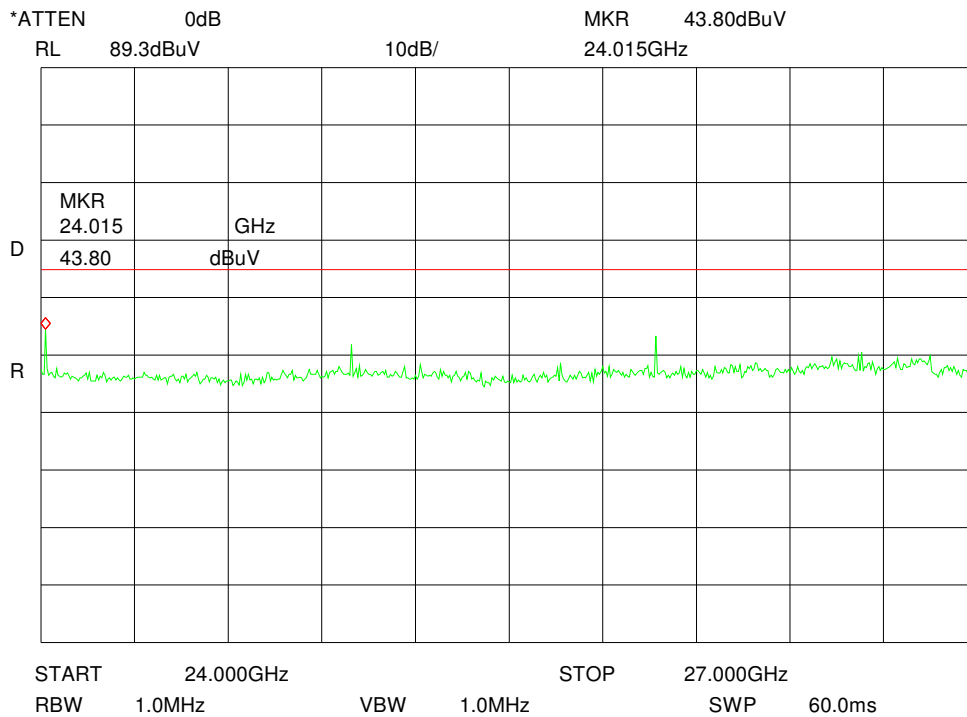


Test report no.: 1-1457-1-3/09

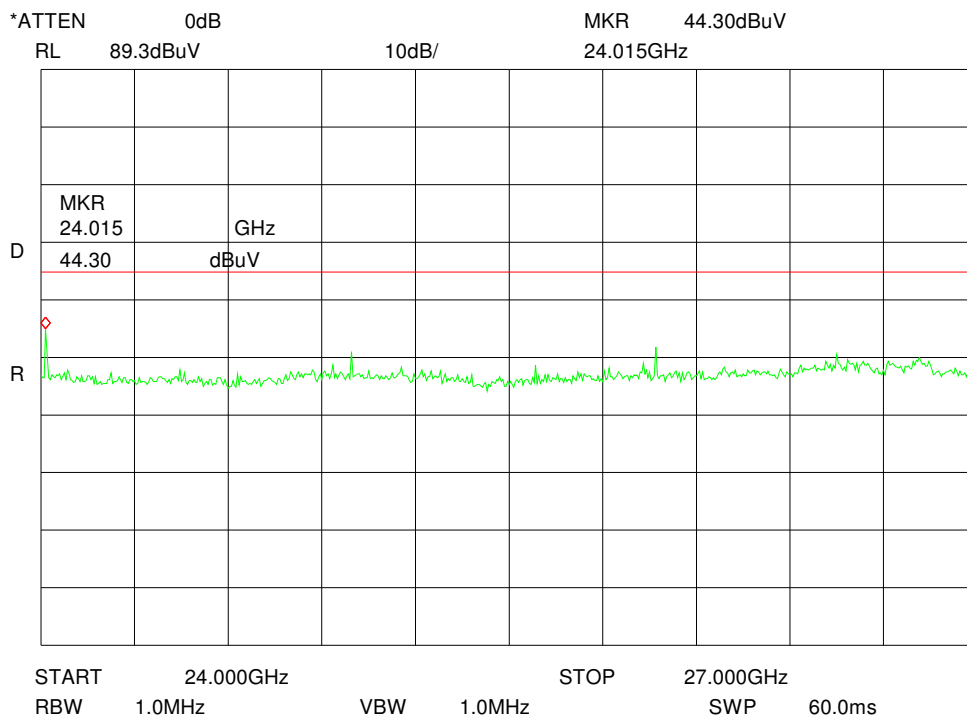
Date: 2010-02-23

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Field strength of the fundamental (angle: 90 degree) **Horn Antenna**



Field strength of the fundamental (angle: 135 degree) **Horn Antenna**

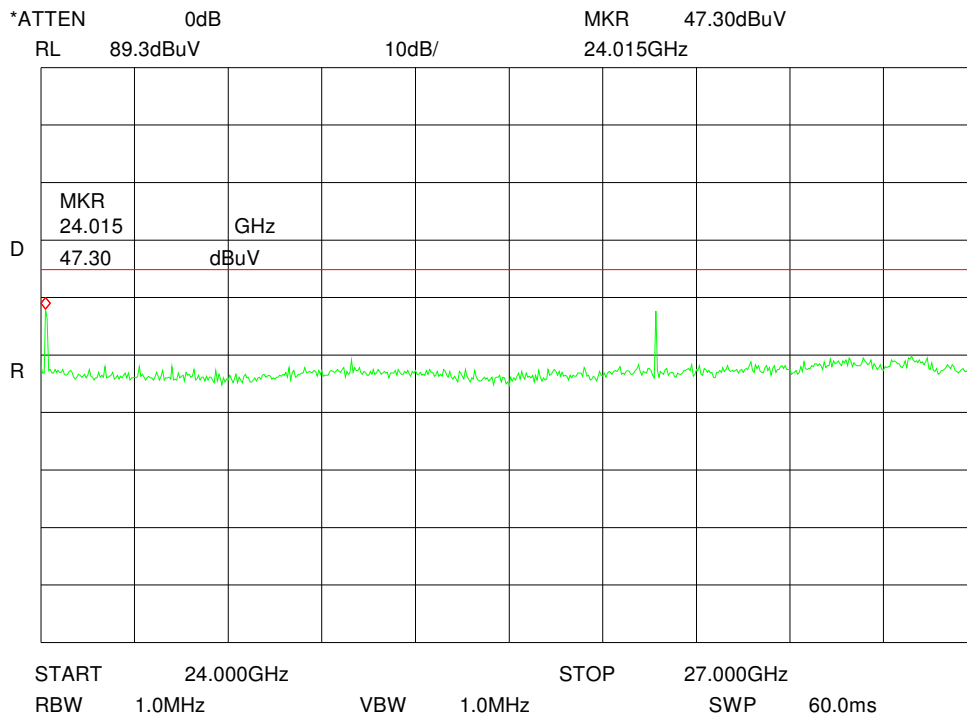


Test report no.: 1-1457-1-3/09

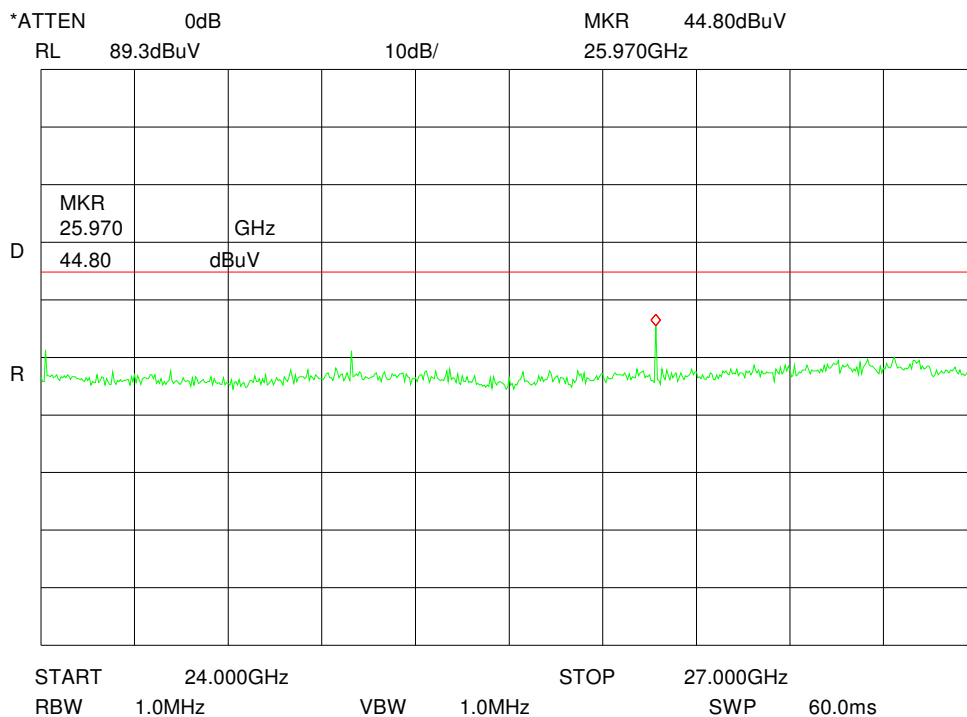
Date: 2010-02-23

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Field strength of the fundamental (angle: 180 degree) **Horn Antenna**



Field strength of the fundamental (angle: 225 degree) **Horn Antenna**

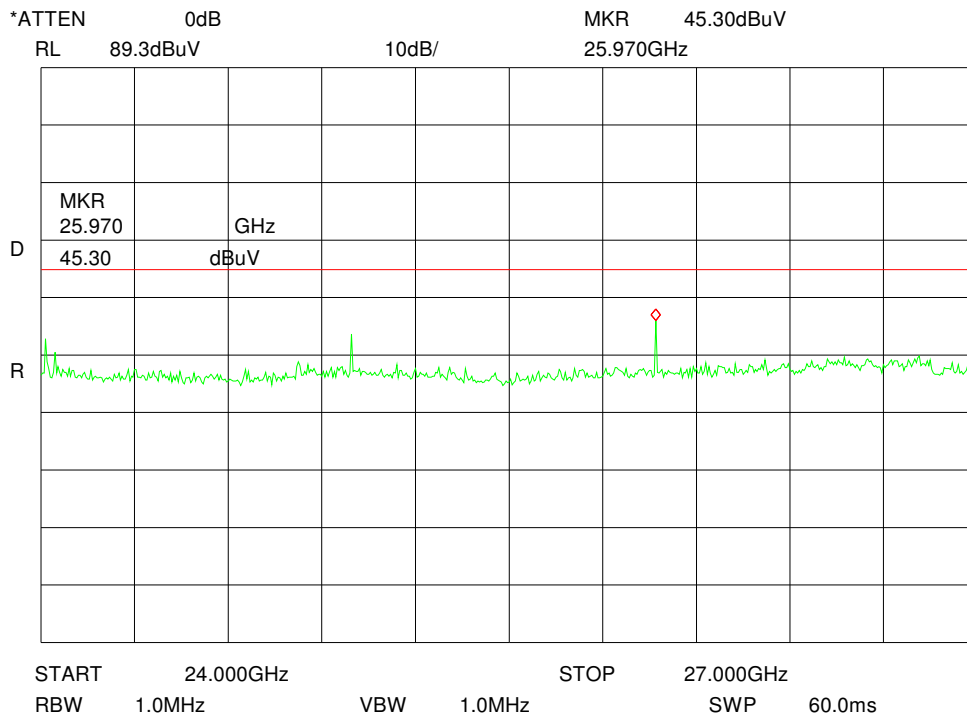


Test report no.: 1-1457-1-3/09

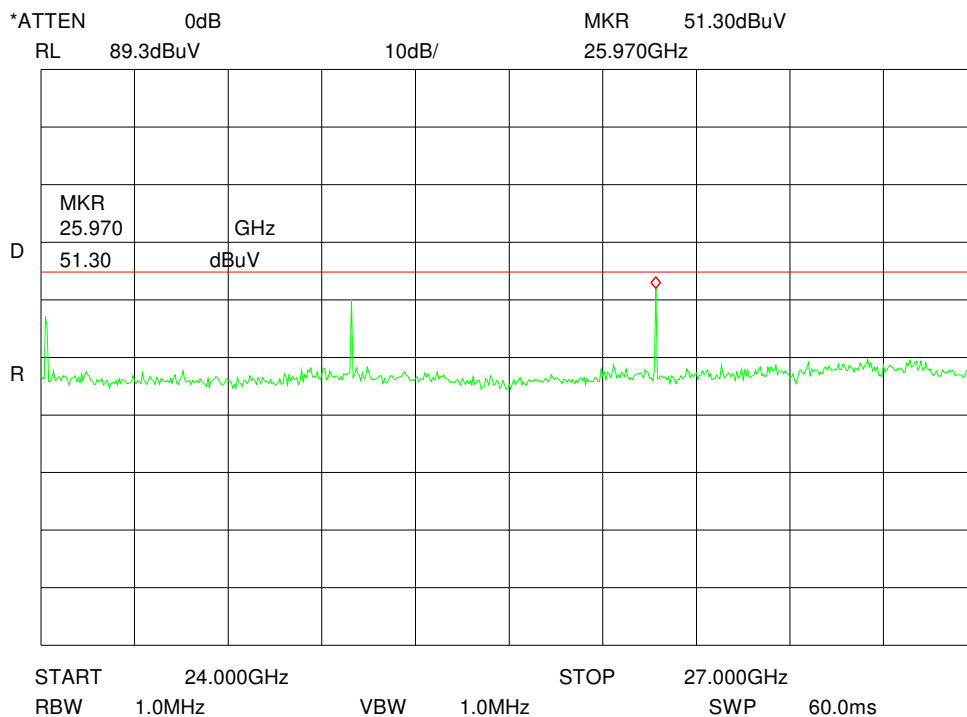
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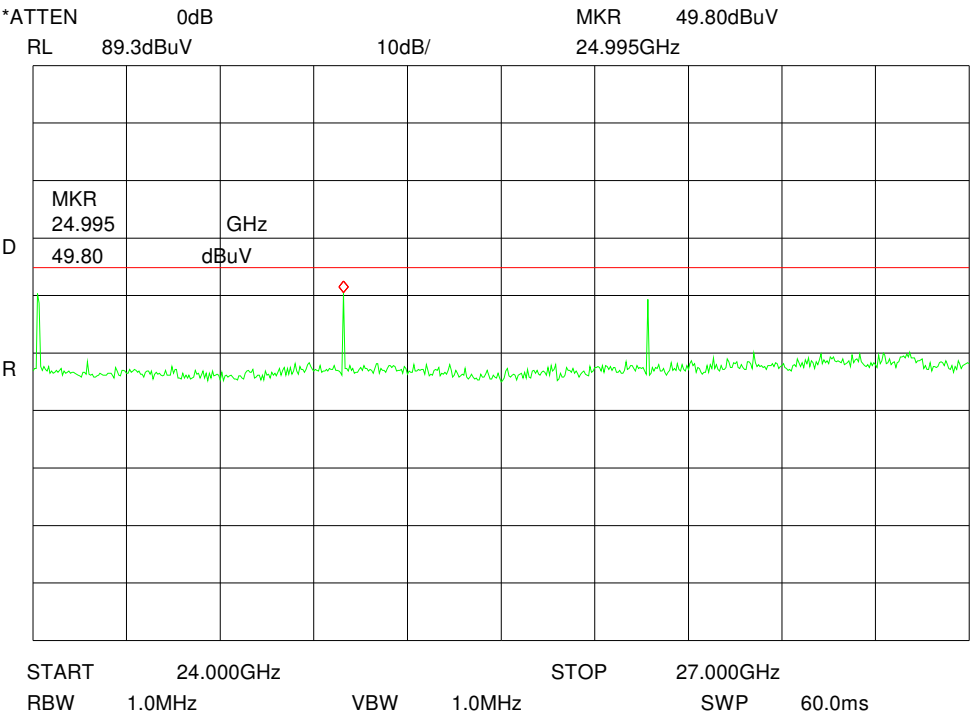
Field strength of the fundamental (angle: 270 degree) **Horn Antenna**



Field strength of the fundamental (angle: 315 degree) **Horn Antenna**



Field strength of the fundamental (top view) **Horn Antenna**



3.4 Field Strength of the Spurious Emissions / Radiated Spurious Emissions

Reference

FCC:	§ 15.209 Radiated Spurious Emissions
IC:	RSS-210 Issue 7, § 2.6

MAXIMUM FIELD STRENGTH RADIATED (PEAK)

TEST CONDITIONS EUT was operated inside a test tank Frequency sweep stopped low/mid/high Frequency	MAXIMUM POWER (dB μ V/m at 3m) Dielectric Elliptic Antenna / Horn Antenna		
	Low channel	Mid channel	High Channel
0.03 – 1 GHz	See Plot	See Plot	See Plot
1.00 – 4.00 GHz	See Plot	See Plot	See Plot
4.00 – 12.00 GHz	See Plot	See Plot	See Plot
12.00 – 18.00 GHz	See Plot	See Plot	See Plot
18.00 – 27.00 GHz	See Plot	See Plot	See Plot
27.00 – 40.00 GHz	See Plot	See Plot	See Plot
40.00 – 50.00 GHz	See Plot	See Plot	See Plot
50.00 – 75.00 GHz	See Plot	See Plot	See Plot
75.00 – 110.00 GHz	See Plot	See Plot	See Plot
Measurement uncertainty	± 3 dB		

RBW/VBW : 1 MHz**Limits: RSS 210 Issue 7:****§ 15.209**

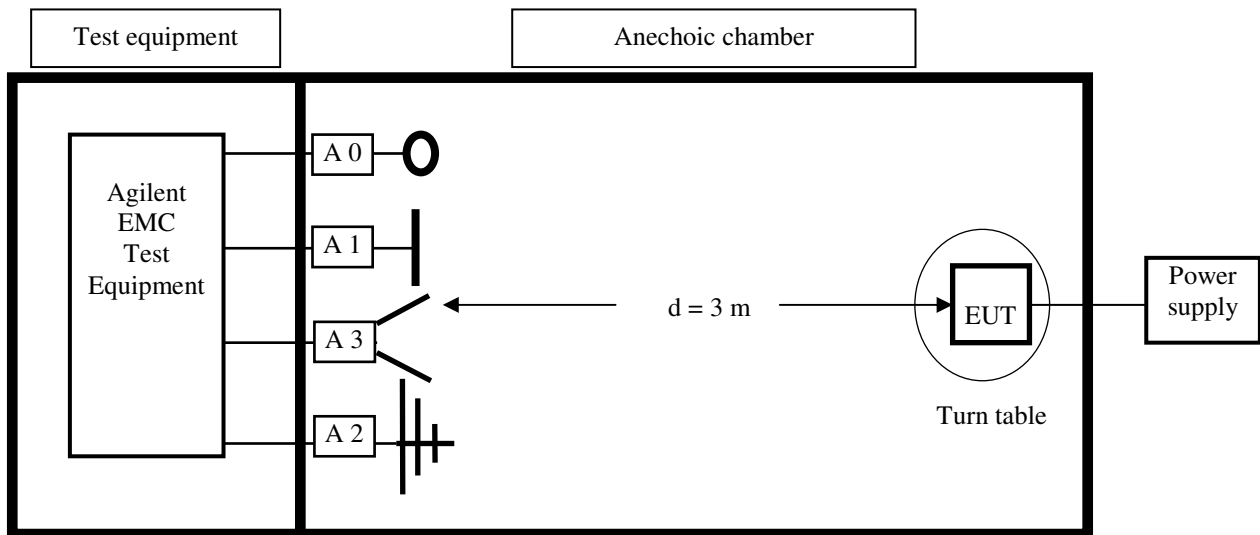
Radiated Spurious Emissions

Table 2: General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz

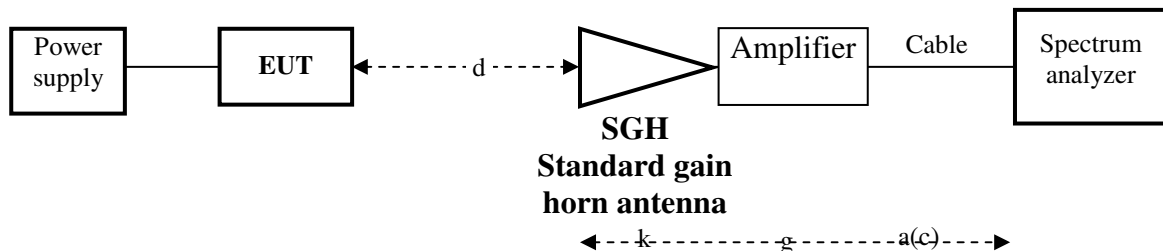
30-88	100 (3 nW)
88-216	150 (6.8 nW)
216-960	200 (12 nW)
Above 960	500 (75 nW) = 54 dB μ V/m

Test Setup:

Frequency range: 30 MHz – 12 GHz:

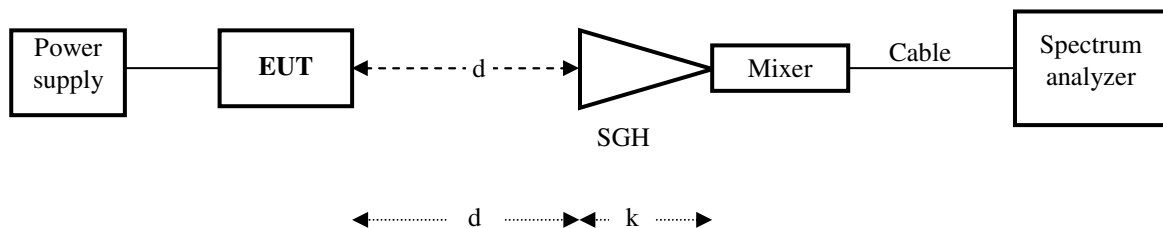


Frequency range: 12 GHz – 50 GHz:



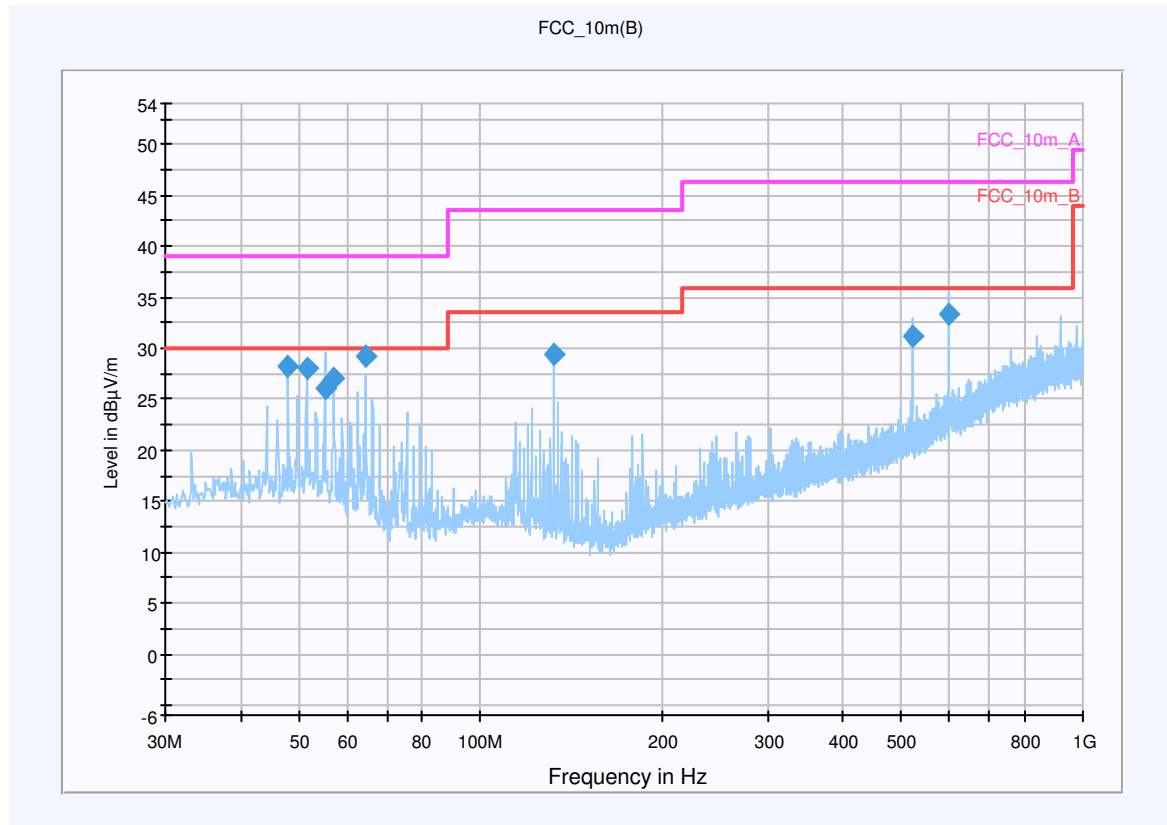
Calculation : Field strength = analyser reading + cable loss - amplifier gain + antenna factor
 $e \text{ [dB(}\mu\text{V/m)]} = u \text{ [dB(}\mu\text{V)]} + a \text{ [dB]} - g \text{ [dB]} + k \text{ [dB(1/m)]}$

Frequency range: 50 GHz – 110 GHz:

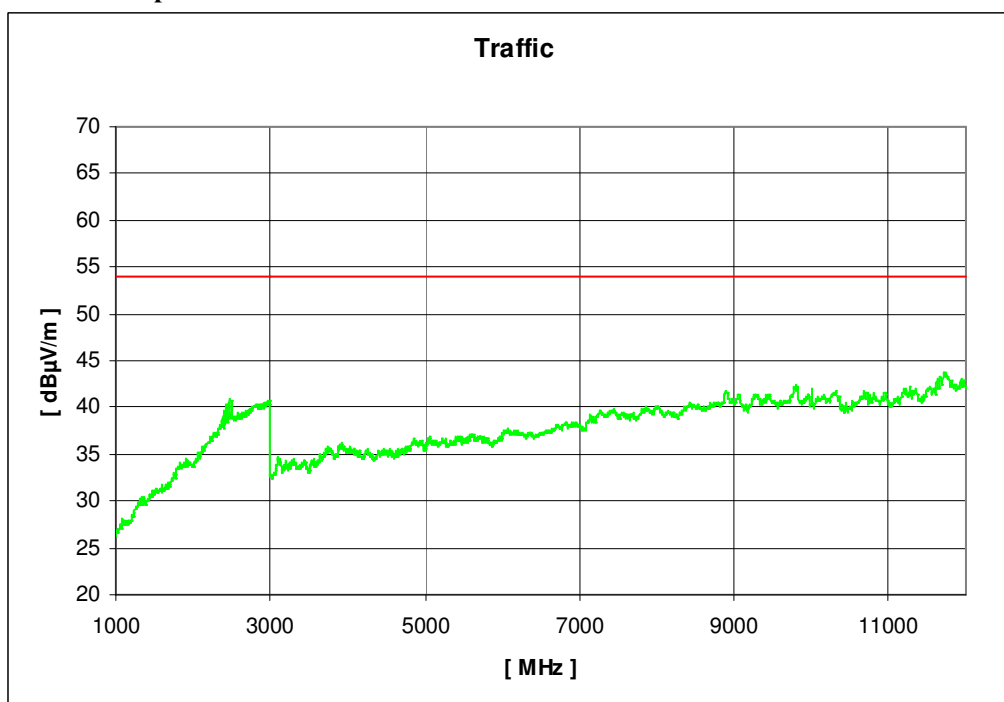


Field strength = analyser reading + antenna factor - distance correction
 $e \text{ [dB(}\mu\text{V/m)]} = u \text{ [dB(}\mu\text{V)]} + k \text{ [dB(1/m)]} - d \text{ [dB]}$

Spurious Emissions 30 MHz - 1 GHz frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna



Spurious Emissions 1 - 12 GHz, frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna

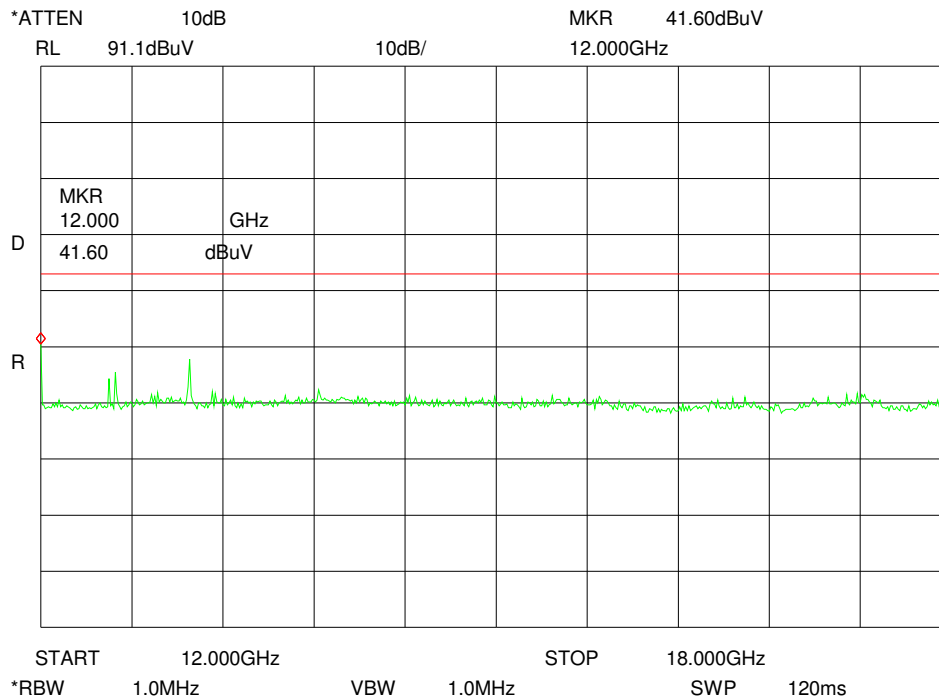


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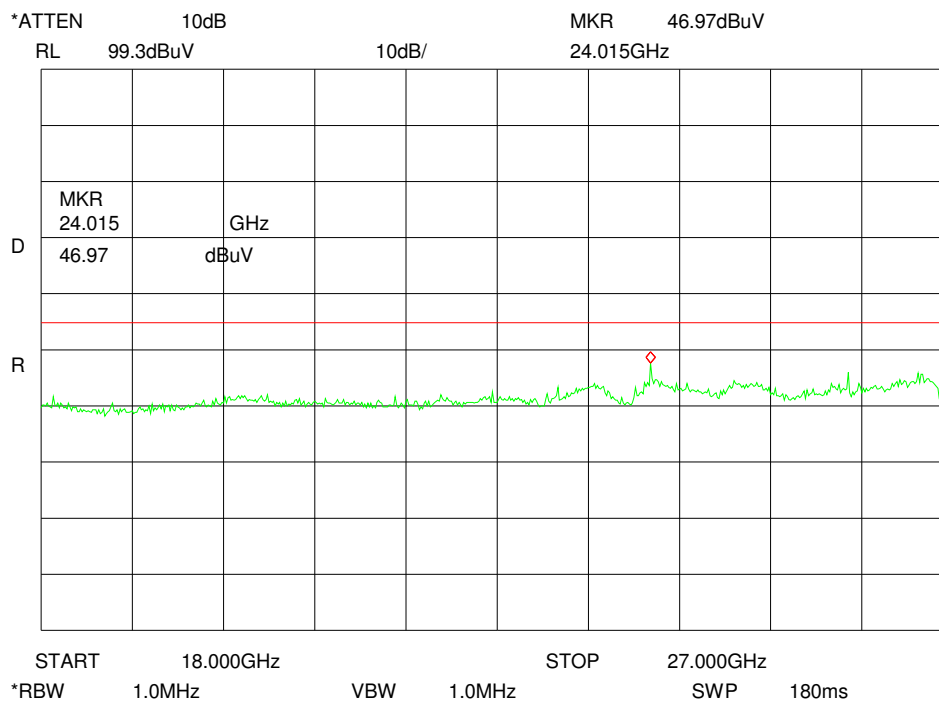
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Spurious Emissions 12 - 18 GHz, frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna



Spurious Emissions 18 - 27 GHz, frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna

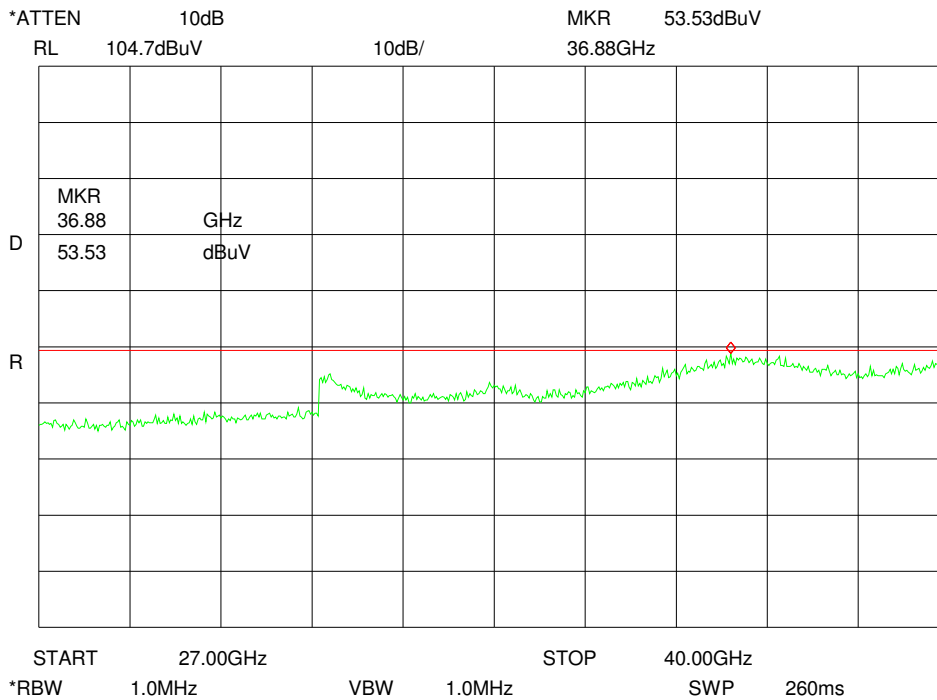


Test report no.:1-1457-1-3/09

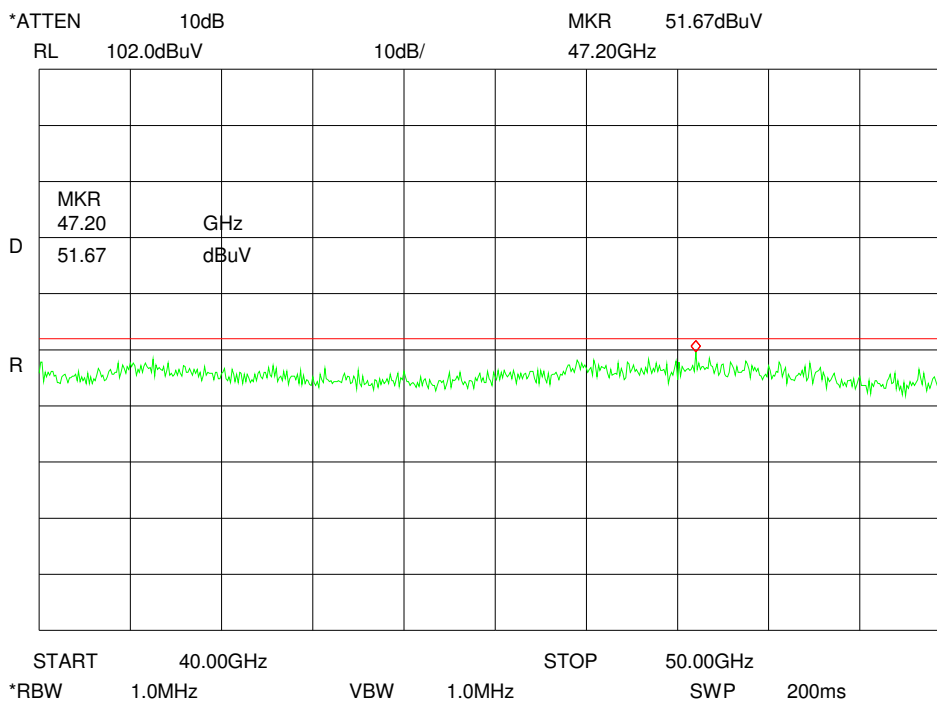
Date: 2010-02-23

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Spurious Emissions 27 - 40 GHz, frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna



Spurious Emissions 40 - 50 GHz, frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna

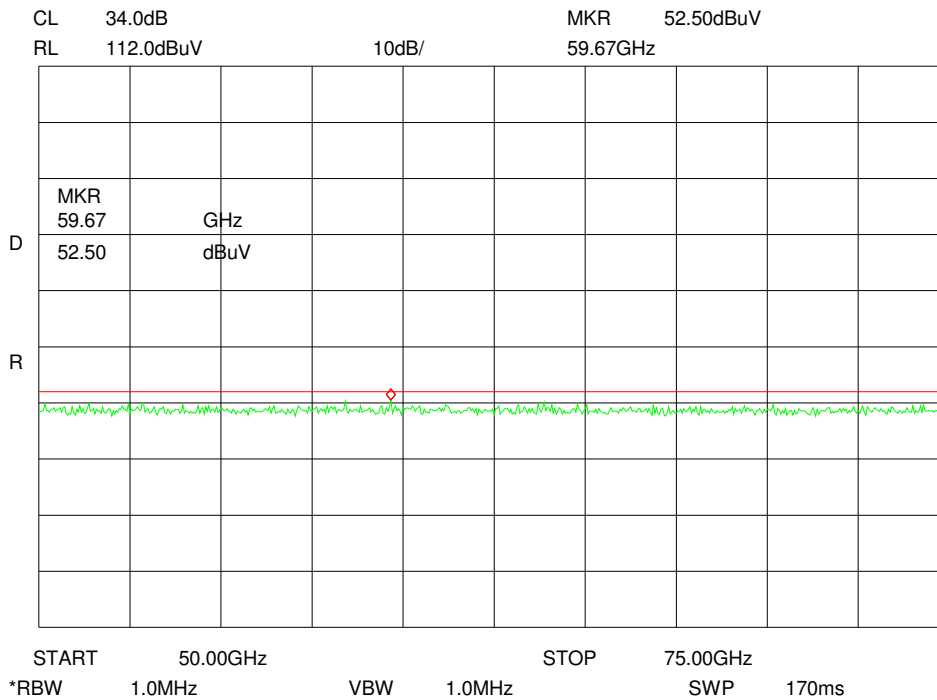


Test report no.:1-1457-1-3/09

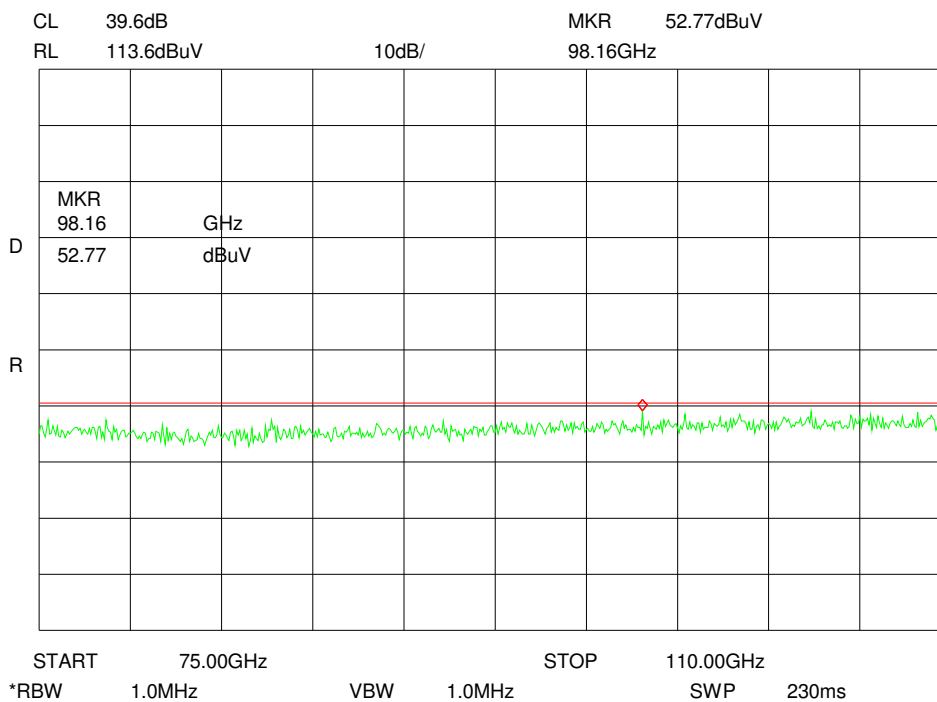
Date: 2010-02-23

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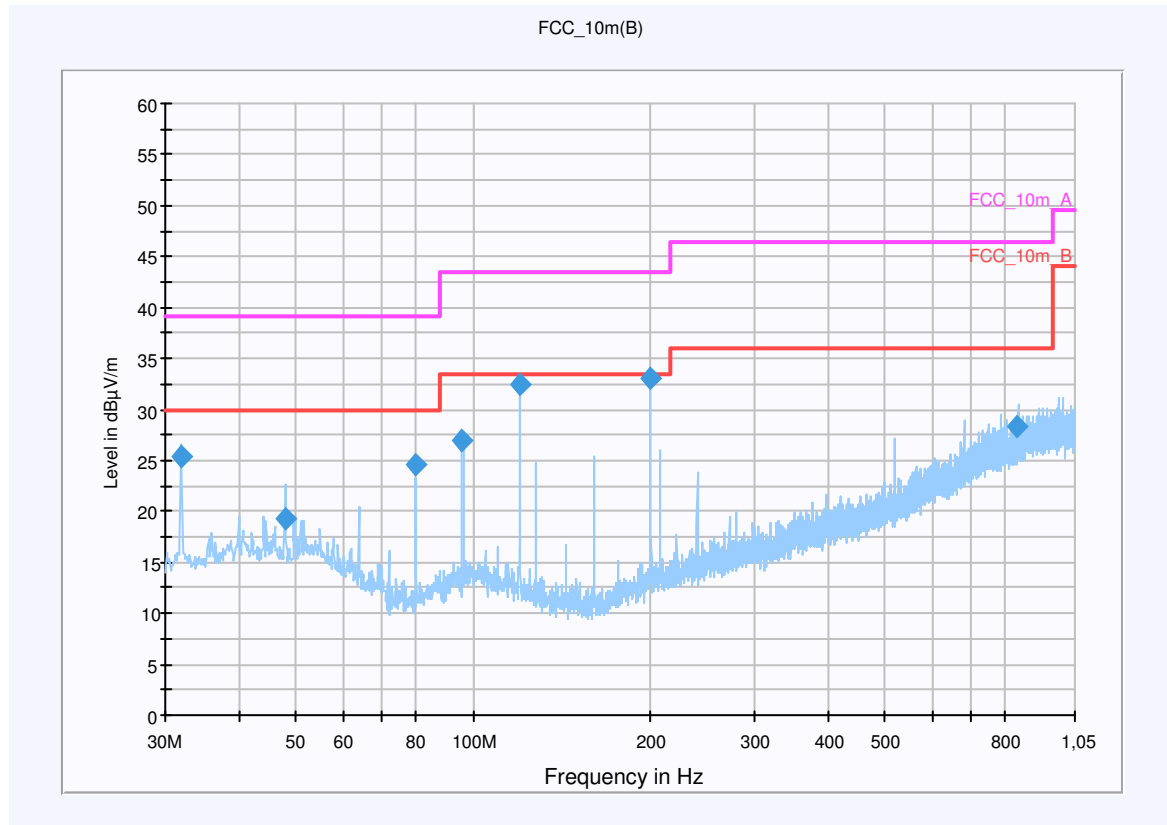
Spurious Emissions 50 - 75 GHz, frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna



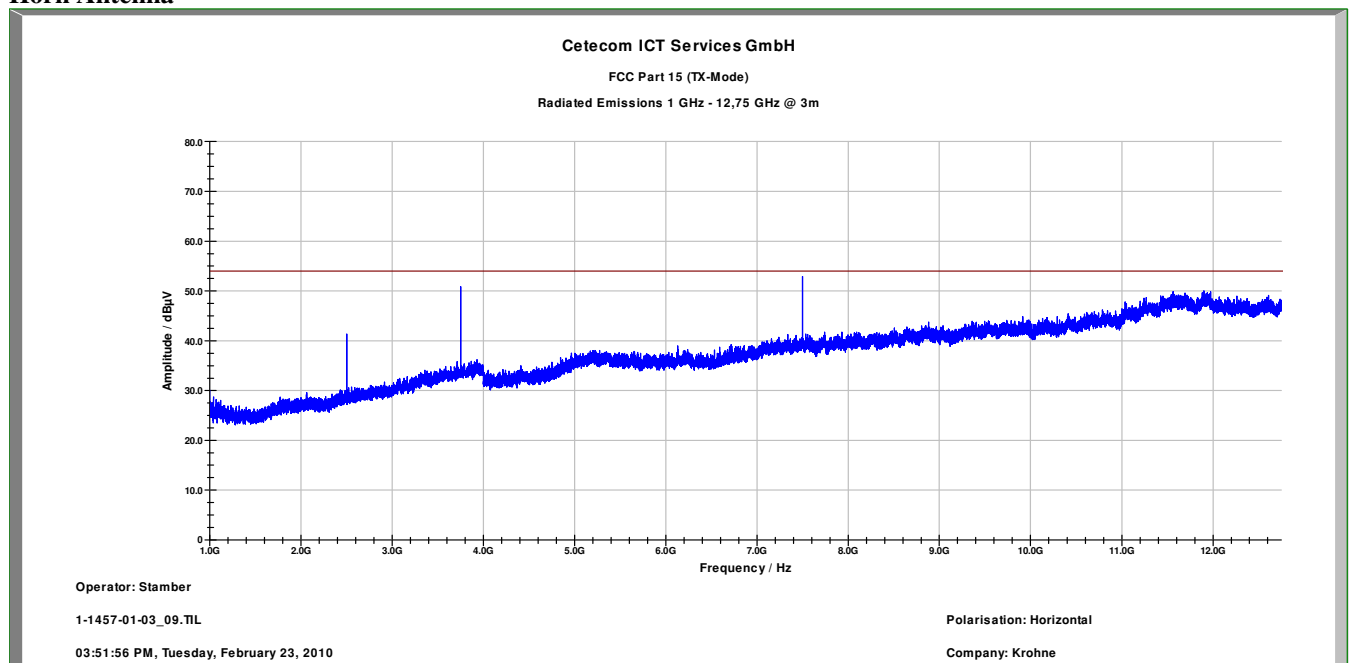
Spurious Emissions 75 - 110 GHz, frequency sweep stopped - low / mid / high
Dielectric Elliptic Antenna



**Spurious Emissions 30 MHz - 1 GHz frequency sweep stopped - low / mid / high
Horn Antenna**



**Spurious Emissions 1 - 12 GHz, frequency sweep stopped - low / mid / high
Horn Antenna**

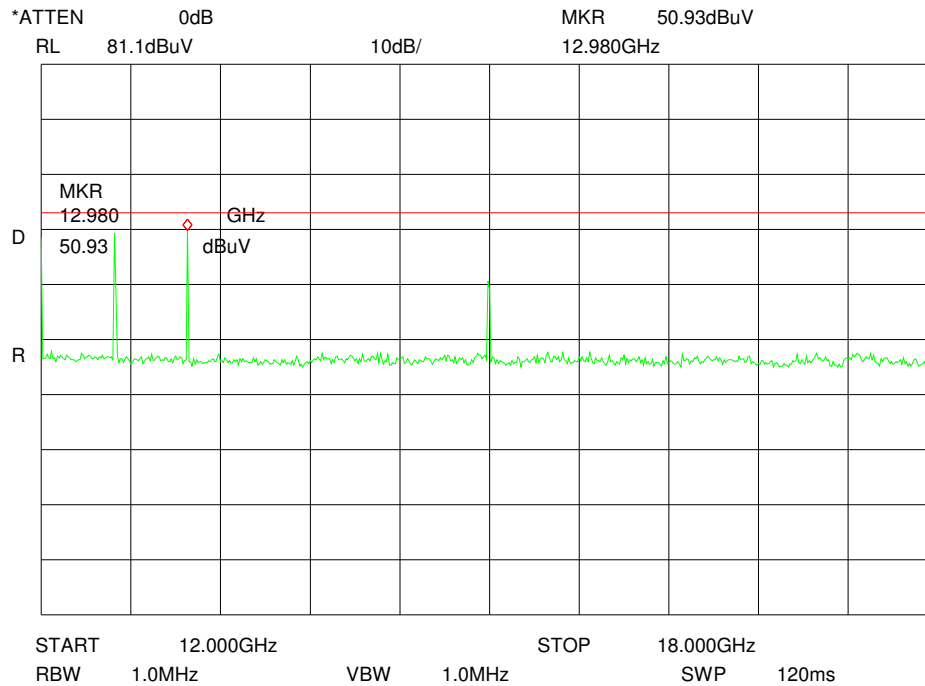


Test report no.:1-1457-1-3/09

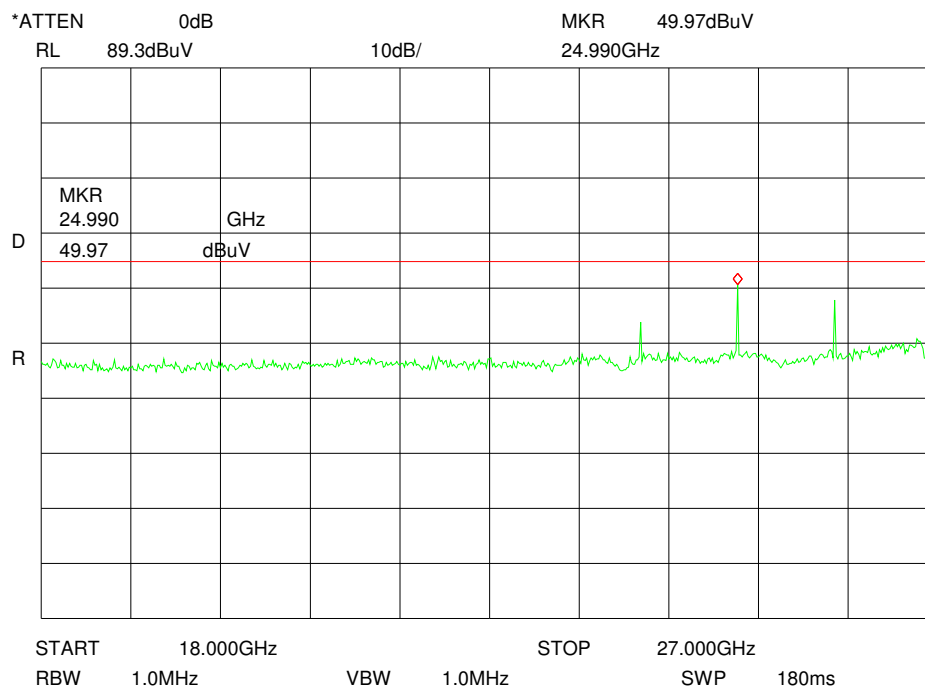
Date: 2010-02-23

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**Spurious Emissions 12 - 18 GHz, frequency sweep stopped - low / mid / high
Horn Antenna**



**Spurious Emissions 18 - 27 GHz, frequency sweep stopped - low / mid / high
Horn Antenna**



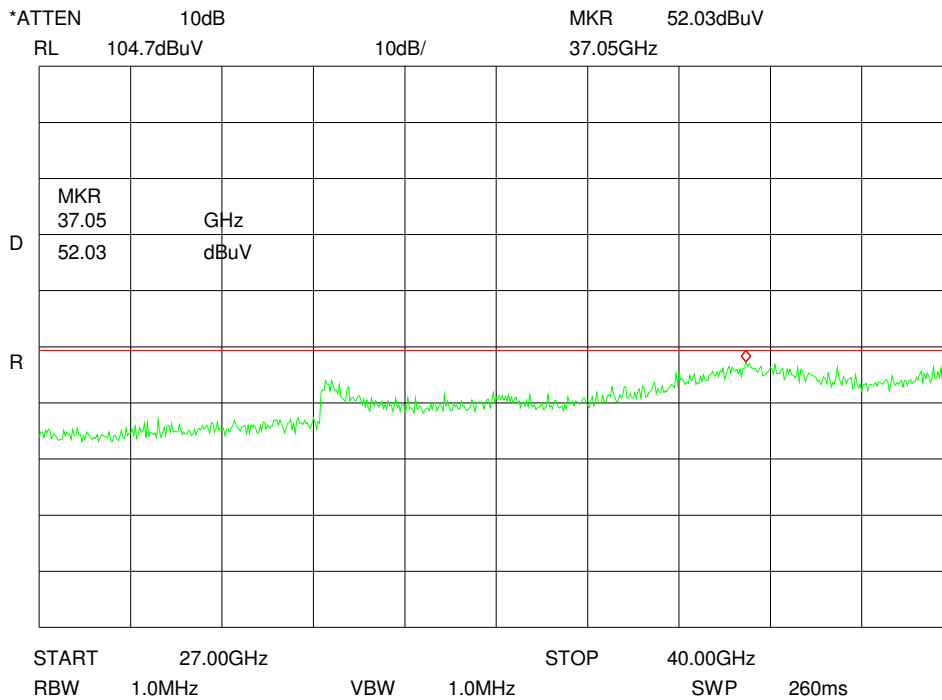
The peaks around 24 GHz show the carrier stopped at low / mid / high frequency

Test report no.:1-1457-1-3/09

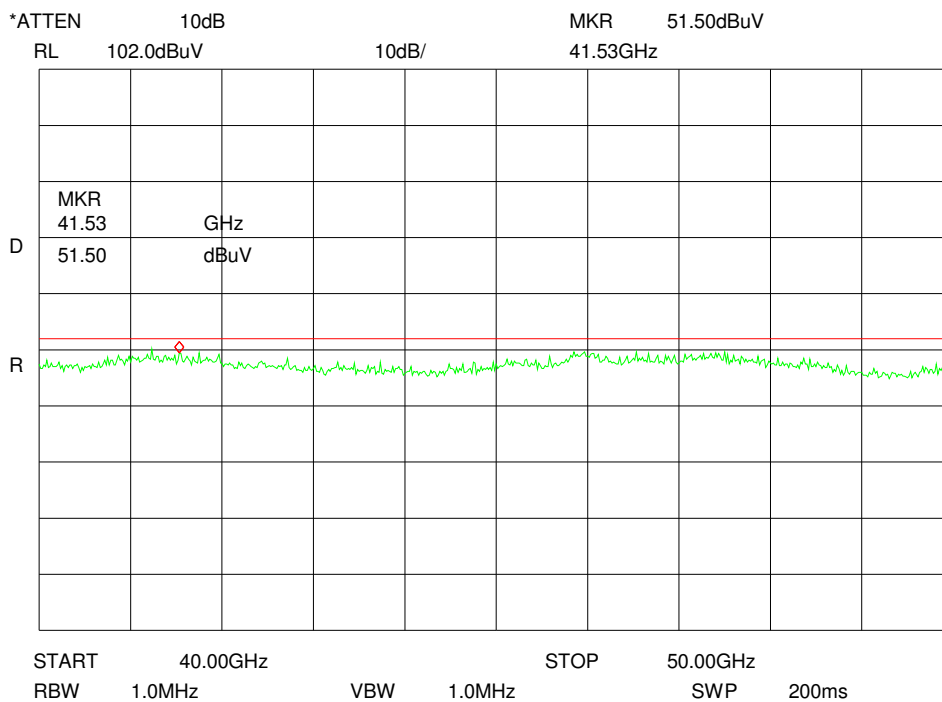
Date: 2010-02-23

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Spurious Emissions 27 - 40 GHz, frequency sweep stopped - low / mid / high
Horn Antenna



Spurious Emissions 40 - 50 GHz, frequency sweep stopped - low / mid / high
Horn Antenna

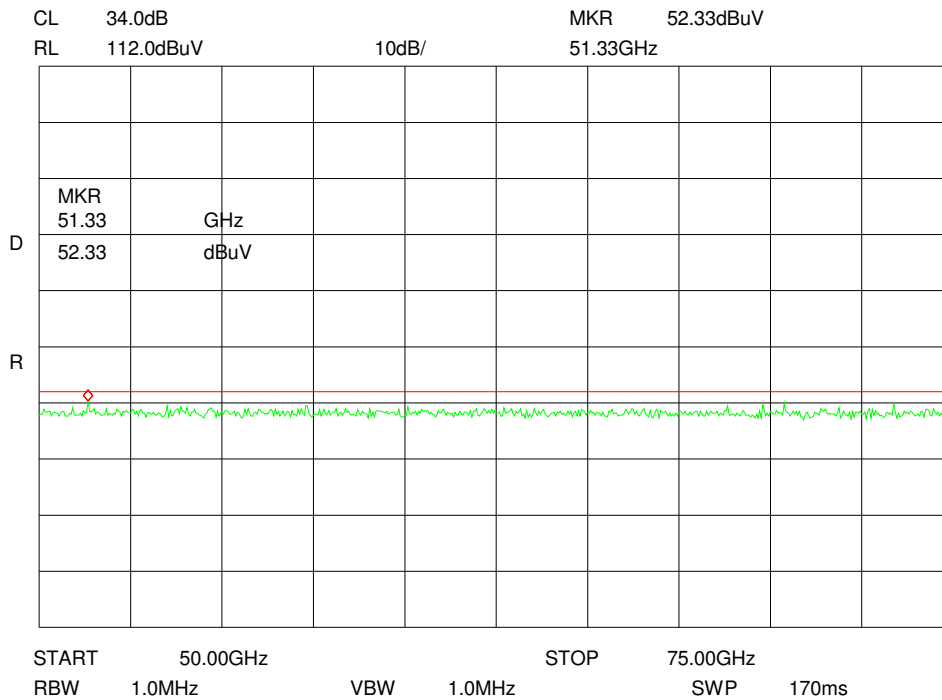


Test report no.:1-1457-1-3/09

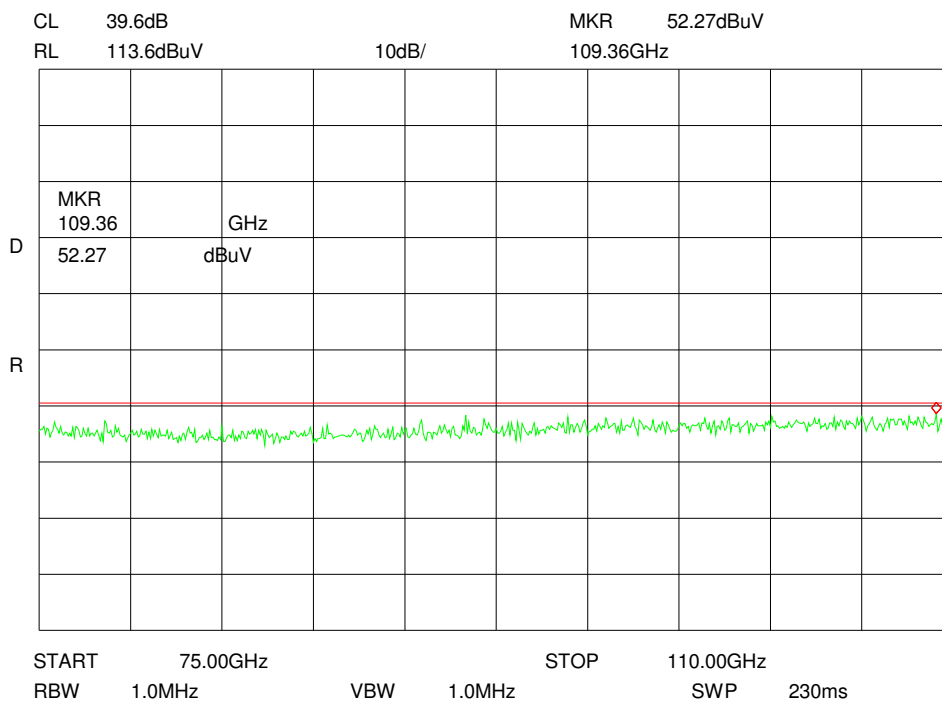
Date: 2010-02-23

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**Spurious Emissions 50 - 75 GHz, frequency sweep stopped - low / mid / high
Horn Antenna**



**Spurious Emissions 75 - 110 GHz, frequency sweep stopped - low / mid / high
Horn Antenna**



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3.5 Conducted Emissions

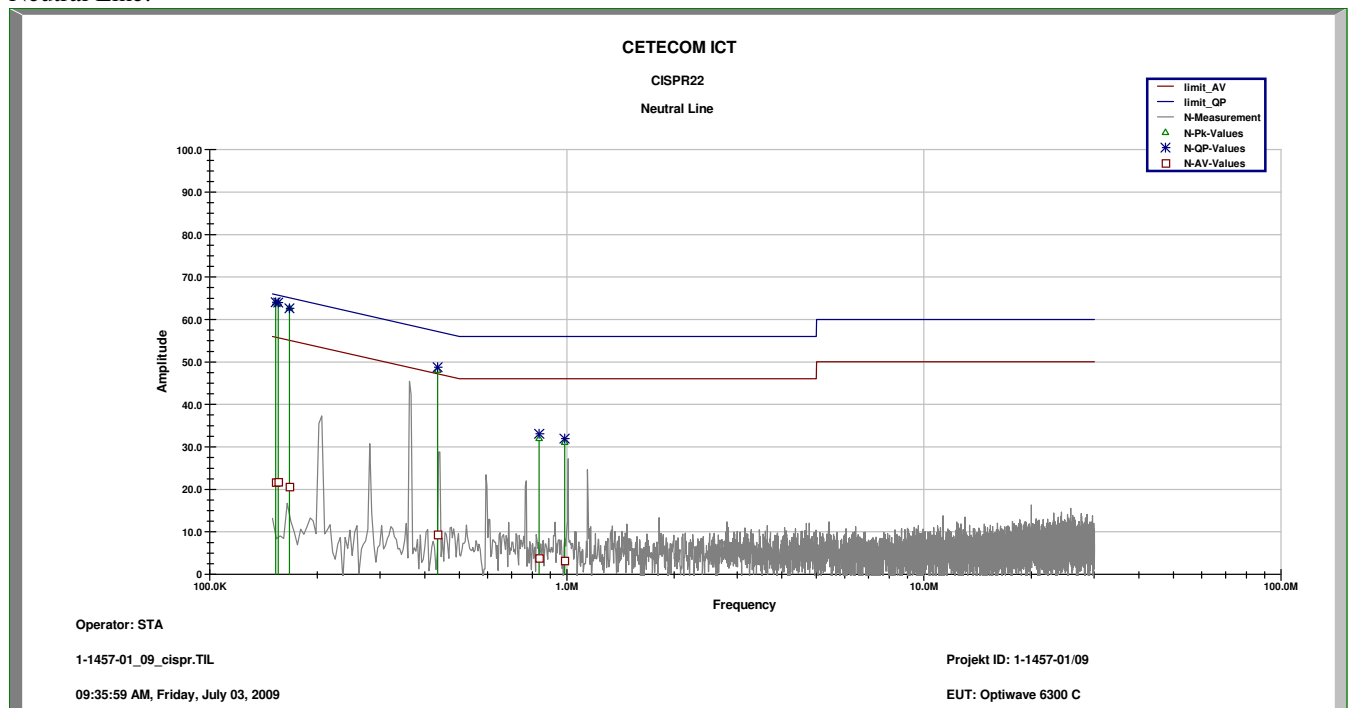
Reference

FCC:	§ 15.207 (a)
------	--------------

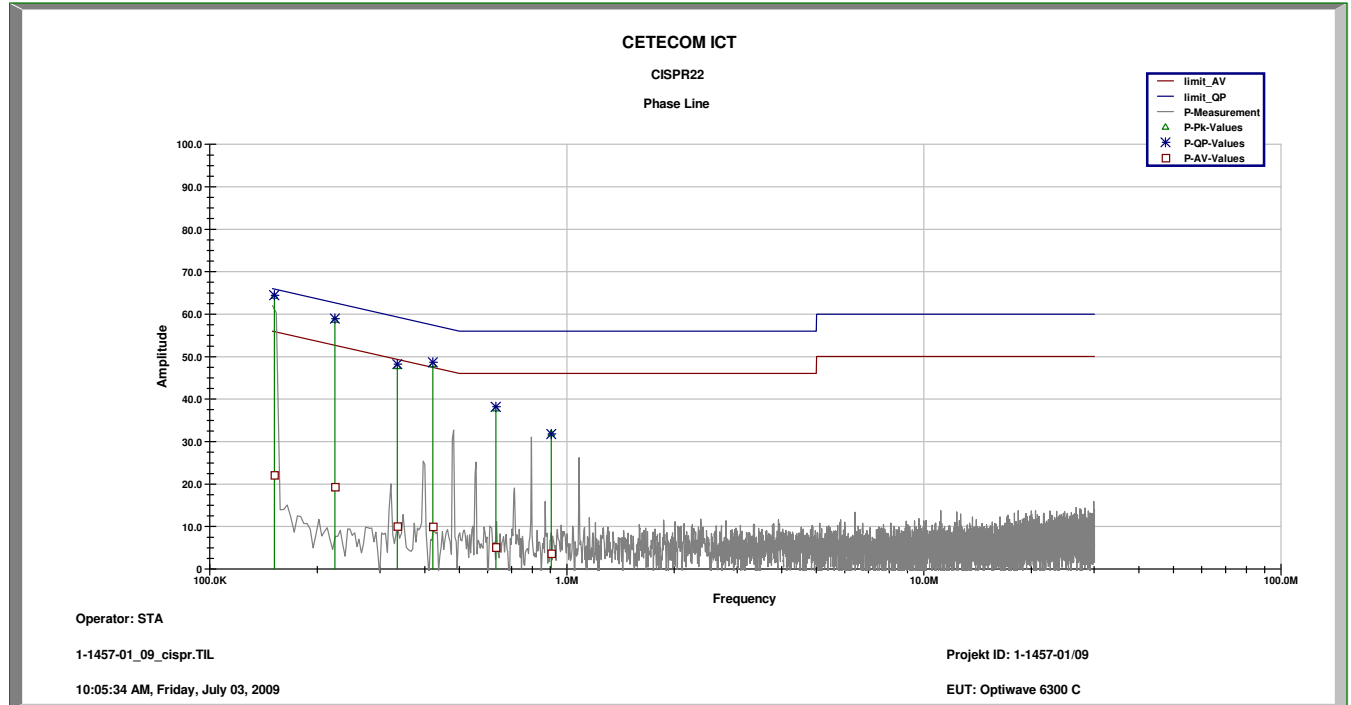
Results:

MEASUREMENT	VERDICT
Neutral line	Pass
Phase line	Pass

Neutral Line:



Phase Line:



Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

5 Used Testequipment

Equipment and ancillaries used for tests

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

Anechoic chamber A:

No.	Instrument/Ancillary	Manufacturer	Type	Serial-No.	Internal identification
Radiated emission in chamber A					
A-1	Spectrum Analyzer	Rohde & Schwarz	ESU26	100037	300003555
A-2	Signal Generator	Rohde & Schwarz	SMR20B11	1104.0002.20	300003593
A-3	RF System Panel	Rohde & Schwarz	TS RSP	---	300003556
A-4	Relais Matrix	Rohde & Schwarz	PSN	860673/009	300001385
A-5	Horn Antenna	EMCO	3115	9709-5290	300000212
A-6	Bilog.-Log. Antenna	Schwarzbeck	VULB 9163	02/00	300003696
A-7	Notch Filter GSM 900	Wainwright	WRCD 901.9/903.1EE	9	---
A-8	Notch Filter GSM 1800	Wainwright	WRCD 1747/1748-5EE	1	---
A-9	Notch Filter GSM 1900	Wainwright	WRCB 1879.5/1880.5EE	9	---
A-10	Notch Filter GSM 850	Wainwright	WRCT 837-0.2/50-8EE	1	---
A-11	Notch Filter UMTS	Wainwright	WRCD 1800/2000-0.2/40-5EEK	2	---
A-12	Notch Filter ISM 2400	Wainwright	WRCG 2400/2483-2375/2505-50/10SS	26	---
A-13	High Pass Filter 1.1 GHz	Wainwright	WHK 1.1/15G-10SS	---	---
A-14	High Pass Filter 2.6 GHz	Wainwright	WHKX 2.6/18G-12SS	---	---
A-15	High Pass Filter 7 GHz	Wainwright	WHKX 7.0/18G-8SS	---	---
A-14	Amplifier	Miteq	AFS4-00201800-15-10P-6	US42-0050 2650-28-5A	300003204
A-16	Controller	Inn co	CO 2000	2020507	---
A-17	DC Power Supply	Hewlett Packard	HP6632A	---	300000924
A-18	Computer	F+W	---	---	300003303

Anechoic chamber F:

No.	Instrument/Ancillary	Manufacturer	Type	Serial-No.	Internal identification
Radiated emission in chamber F					
F-1	Control Computer	F+W		FW0502032	300003303
F-2	Bilog antenna	Chase	CBL 6112A	2110	300000573
F-3a	Amplifier	Veritech Microwave Inc.	0518C-138	- / -	- / -
F-4b	Switch	HP	3488A	- / -	300000368
F-5	EMI Test receiver	R&S	ESCI	100083	300003312
F-6	Turntable Controller	EMCO	1061 3M	1218	300000661
F-7	Tower Controller	EMCO	1051 Controller	1262	300000625
F-8	Tower	EMCO	1051 Tower	1262	300000625
F-9	Ultra Notch-Filter Rejected band Ch. 62	WRCD		9	

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Microwave Laboratory:

No.	Instrument/Ancillary	Manufacturer	Type	Serial-No.	Internal identification
10	Spectrum Analyser	HP	HP 8565E	3738A00773	300001665
11	SGH 12.0 ... 18.0 GHz	narda	639	8402	300000787
12	SGH 18.0 ... 27.0 GHz	narda	638	8206	300002442
13	SGH 27.0 ... 40.0 GHz	narda	V637	7911	300000510
14	SGH 40.0 ... 50.0 GHz	Flann	2324-20	57	--
15	SGH 50.0 ... 75.0 GHz	Thomson	Cor 50_75	--	300000813
16	SGH 75.0 ... 110.0 GHz	Thomson	Cor 75_110	--	300000798b
17	External Mixer 50 – 75 G	HP	11970V	--	300000781n
18	External Mixer 75 – 110 G	HP	11970W	--	300000781c
19	Microwave Amplifier	HP	83017A	3116A00297	300002268
20	Microwave Amplifier	Farran Technology	--	--	--
8	RF-cable	HP	5061-5359	--	300002035

6 Annex B: Photographs of Test site

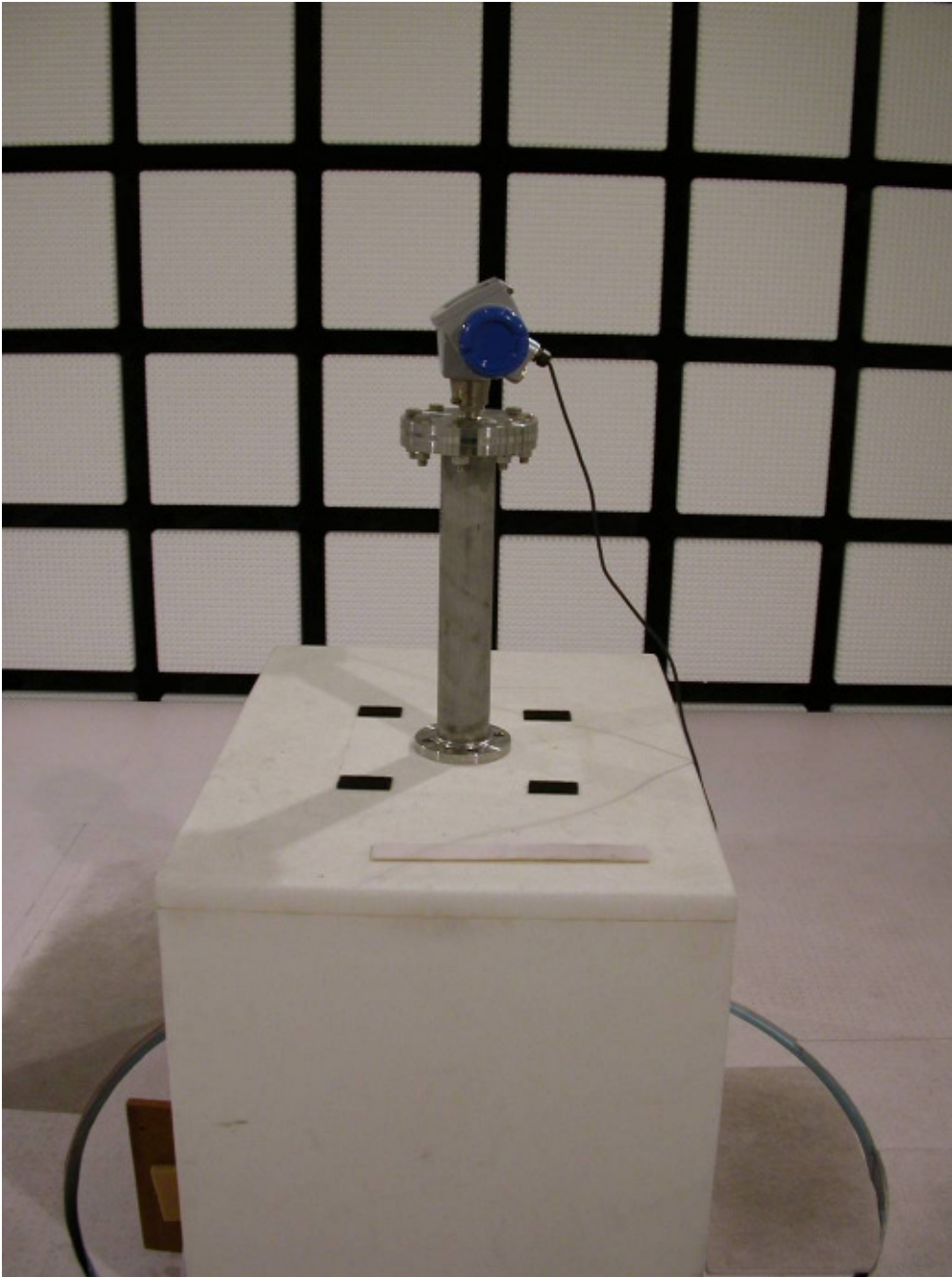


Photo 1 (Radiated Emissions)

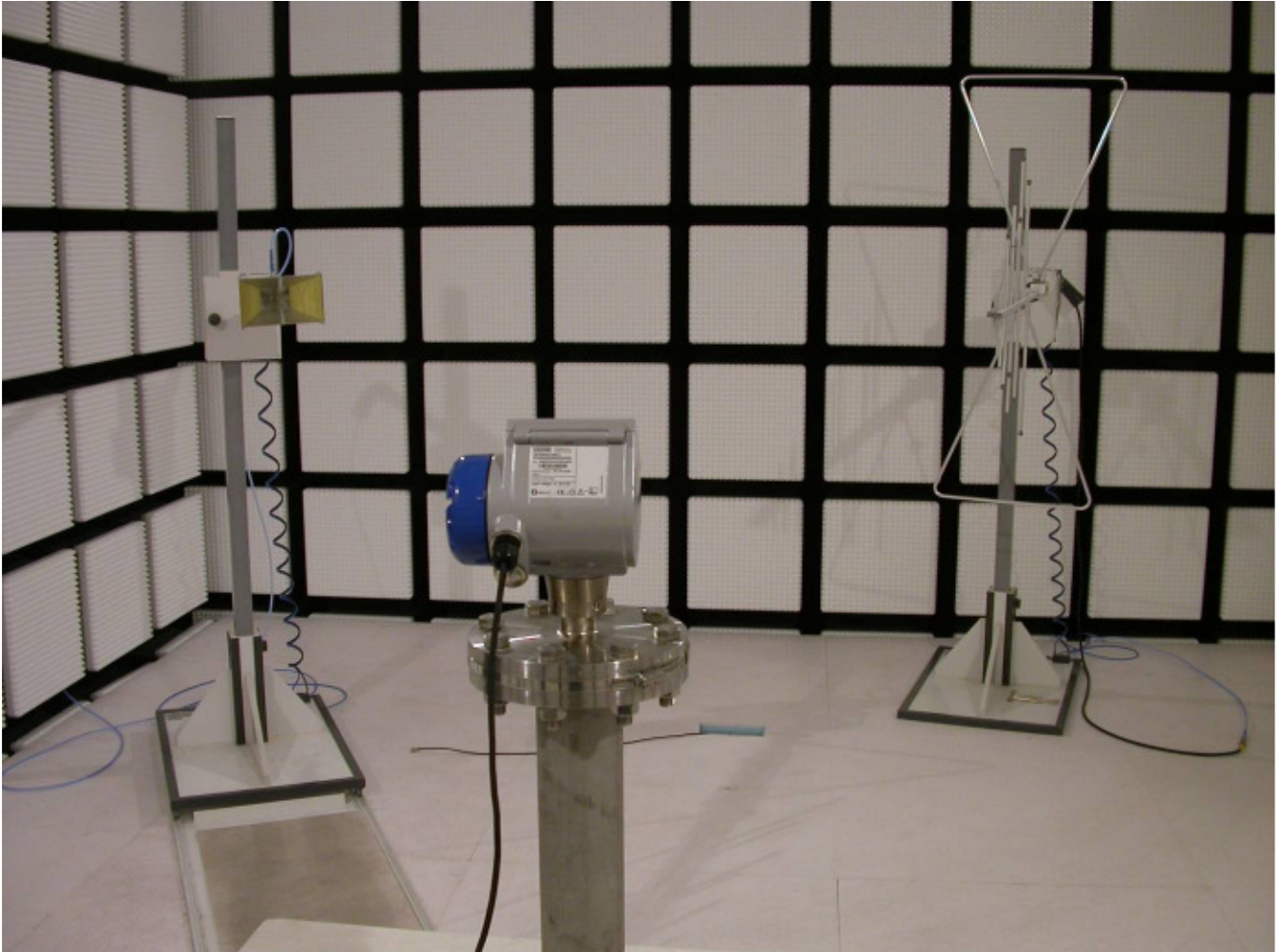


Photo 2 (Radiated Emissions)



Photo 3 (Radiated Emissions)

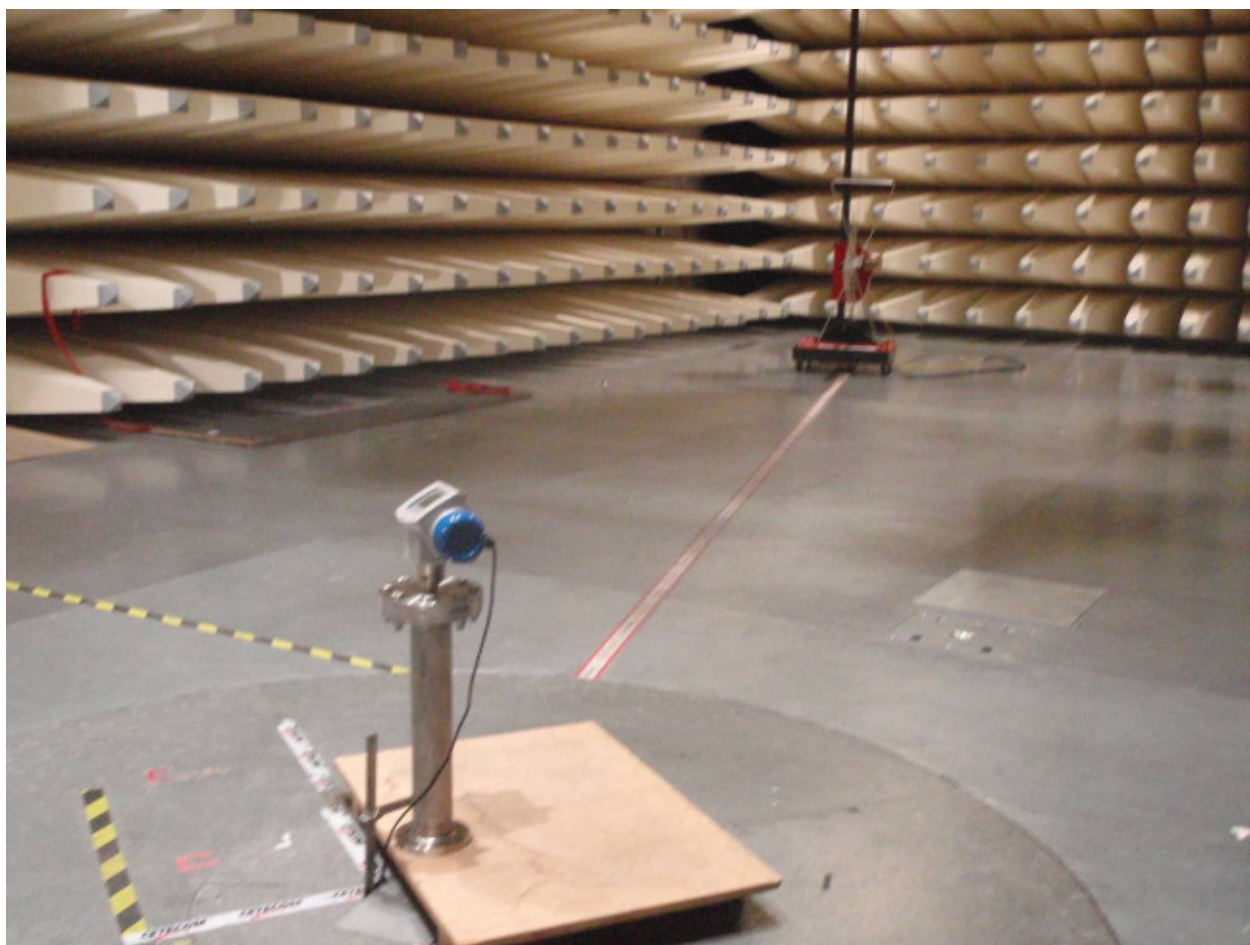


Photo 4 (Radiated Emissions)



Photo 5 (AC-Conducted)

7 Annex C: External Photographs of the Equipment

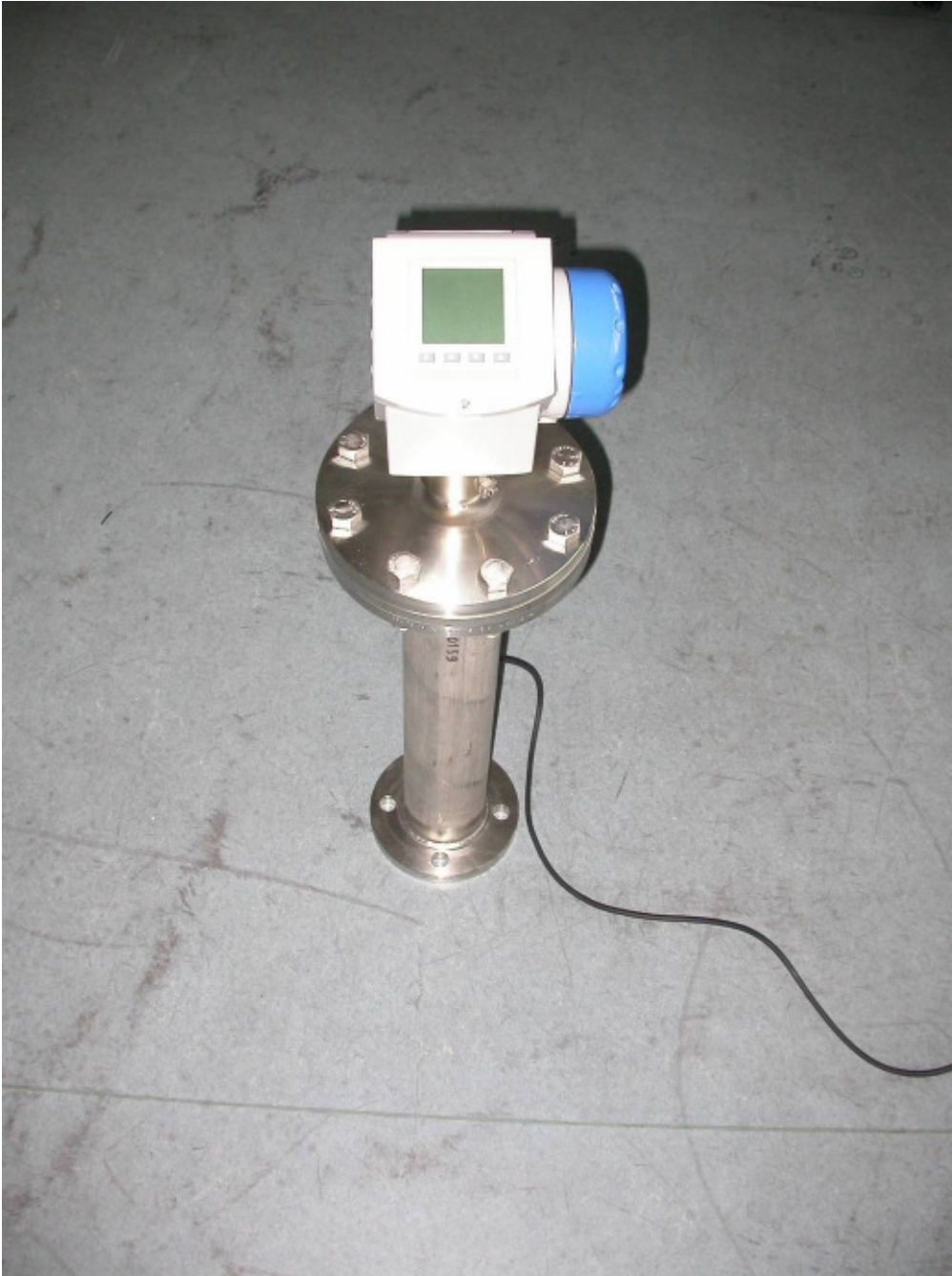


Photo 6



Photo 7



Photo 8



Photo 9 (antennas)



Photo 10 (EUT with dielectric elliptic antenna mounted)



Photo 11 (EUT with horn antenna mounted)

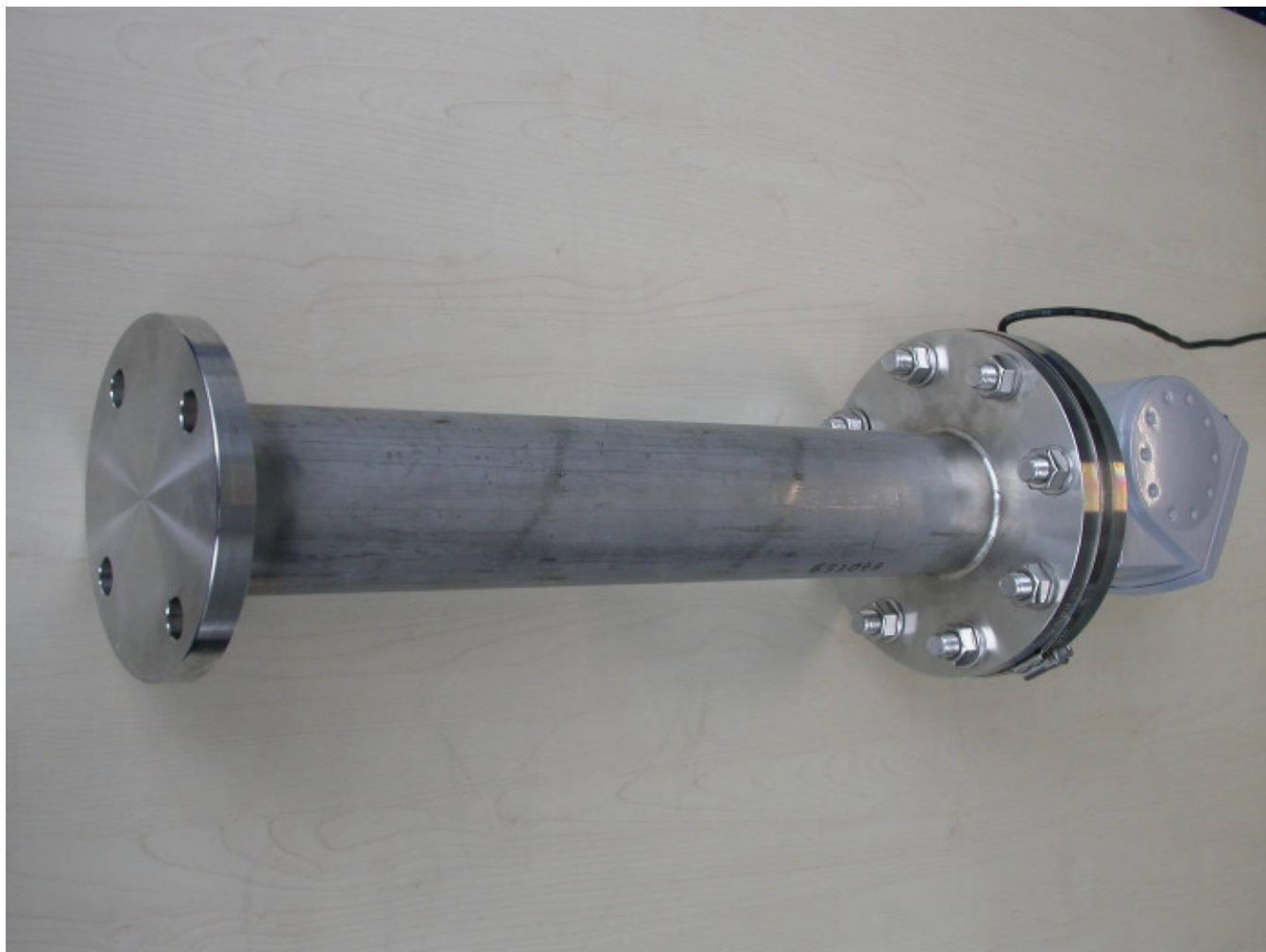


Photo 12 (EUT mounted in closed test tank)

Annex D: INTERNAL PHOTOGRAPHS OF THE EQUIPMENT

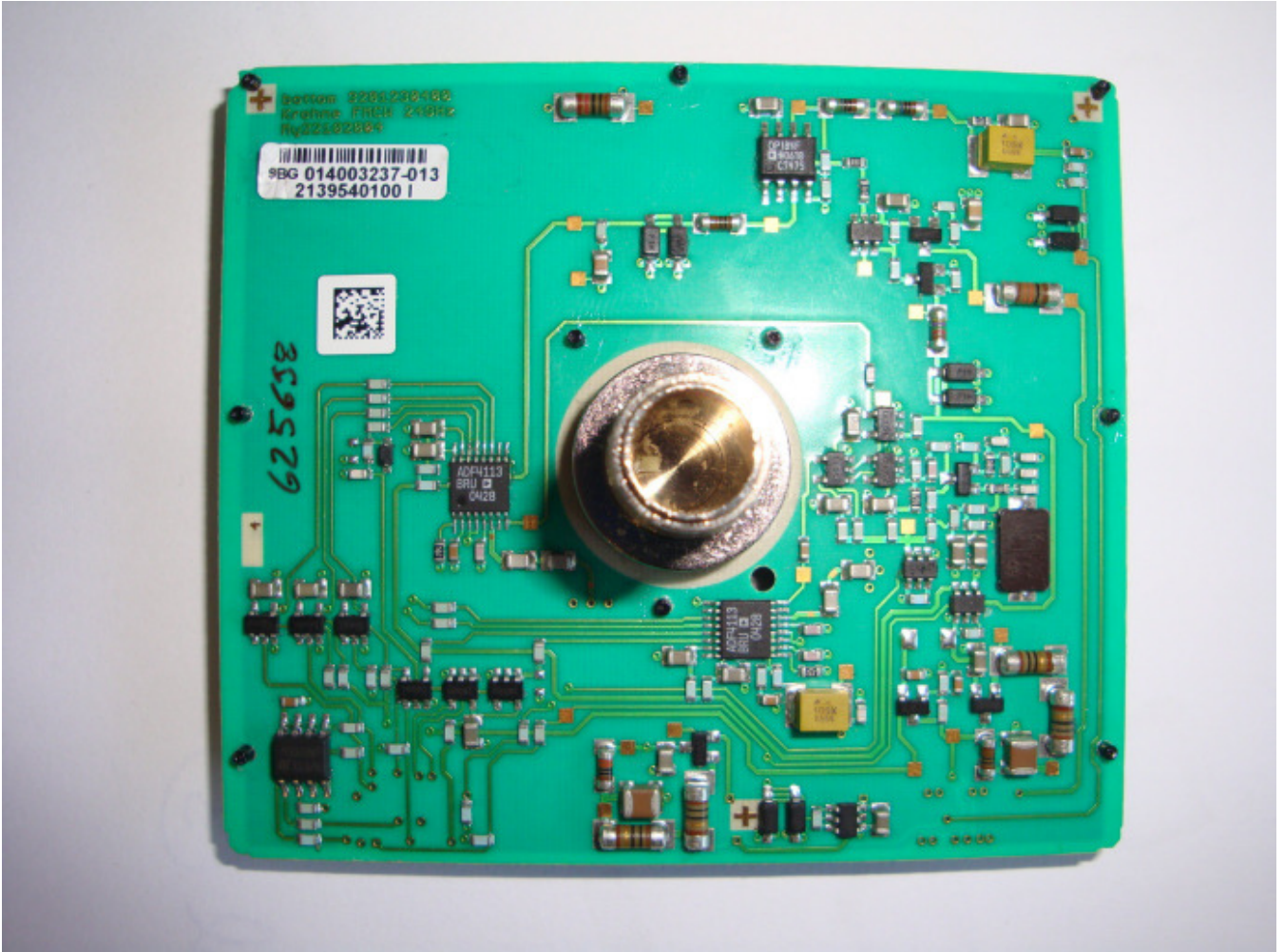


Photo 13 (Bottom view)

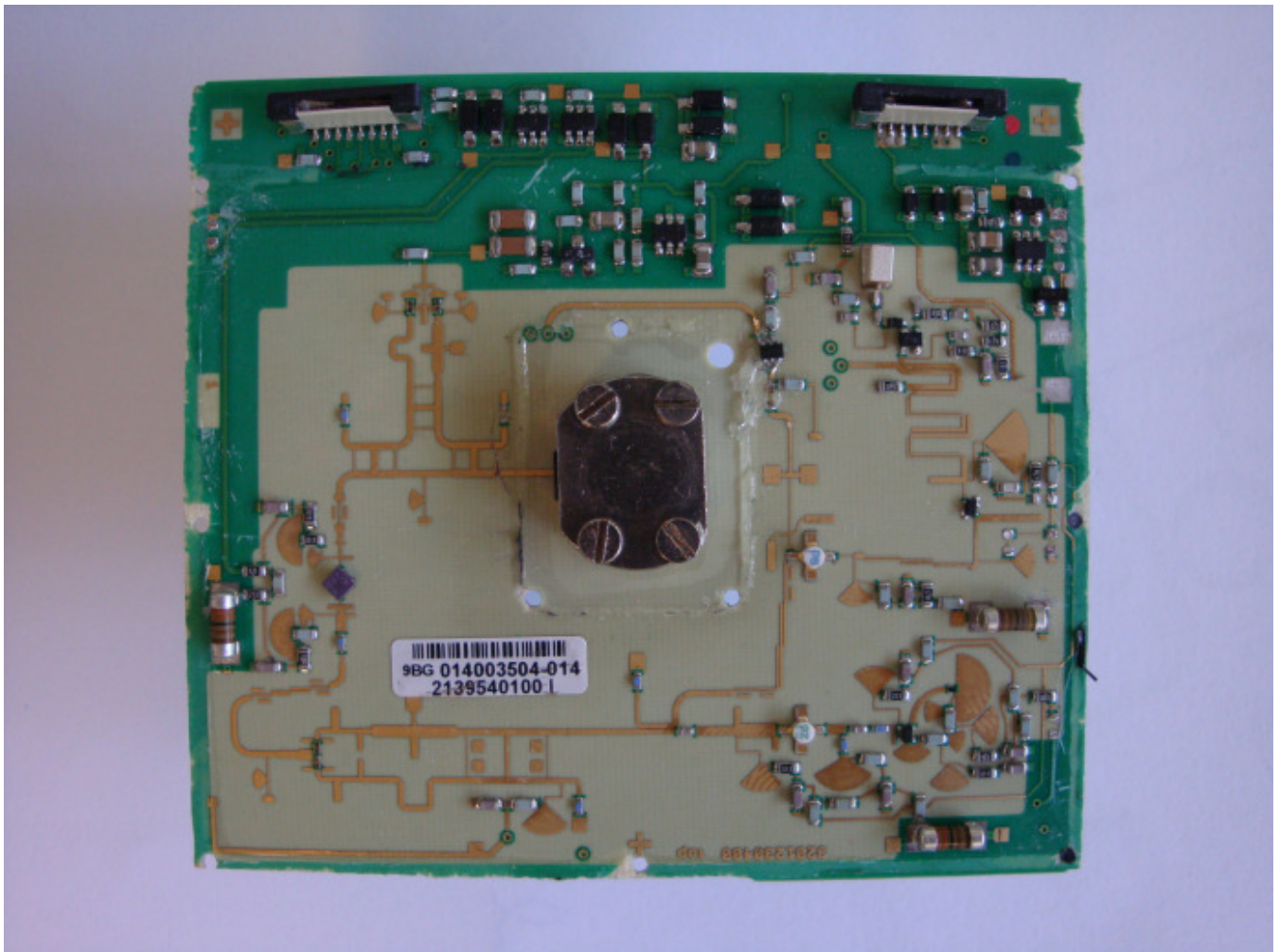


Photo 14 (Top view)



Photo 15 (Top view with plastic cover)