

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
DAT-P-176/94-D1



Accredited Bluetooth® Test Facility (BQTF)

Test report no.	:	1-1490-01-03/09
Applicant	:	Rosemount Tank Radar AB
Type	:	Rosemount 5900S Radar Level Gauge
Test Standard	:	FCC Part 15.209 RSS210 Issue 7
FCC ID	:	K8C5900
Certification No. IC	:	2827A-5900

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1 General information

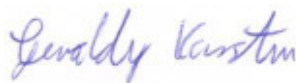
1.1 Administrative data of the test facility

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. DAT-P-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 Geraldly)



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

1.3 Details of Applicant

Name : Rosemount Tank Radar AB
Street : Gamlestadsvägen 18 B
Town : SE-40251 Göteborg
Country : Sweden
Phone : +46 31 33 70 000
Fax : +46 31 25 30 22

Contact person

Name : Mr. Mikael Kleman
Phone : +46 13 23 60 05
Fax : +46 13 23 60 60
E-Mail : Mikael.Kleman@Emerson.com

1.4 Application Details

Date of test : 05.-07.10.2009, 19.-20.10.2009
Person(s) who have been present during the test : Mr. Mikael Kleman

1.5 Test Item

Type of equipment : Field Disturbance Sensor, Tanks Level Probing Radar
Model name : Rosemount 5900S Radar Level Gauge
Manufacturer : Rosemount Tank Radar AB
Address : Gamlestadvägen 18 B
City : SE-40251 Göteborg
Country : Sweden
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: 9.501 – 10.549 GHz
Conducted Power : -12.13 dBm (61.2 μ W)
Field Strength (at what distance) : 35.7 dB μ V/m in 3m (mounted in a tank)
Occupied Bandwidth : 1.048 GHz
Type of Modulation : FMCW (unmodulated signal)
Emission Designator: 1G05N0N
Antenna Information : Horn / Parabolic Antenna mounted in a tank
Transmitter Spurious (worst case) : 41.55 dB μ V/m in 3m
IC no. : 2827A-5900
FCC ID : K8C5900

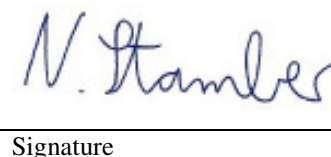
ATTESTATION:

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 :

2009-11-02
Date

Nicolas Stamber
Name



Signature

1.6 Test Setup

Hardware : Rosemount 5900S Radar Level Gauge
Software : --

Equipment was mounted in a test tank (iron sheet)

1.7 Test Specifications

FCC:	CFR Part 15.209 CFR Part 15.205 CFR Part 15.207 CFR Part 2.1055
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 11.1 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 Field Strength of the Spurious Emissions § 15.209 Radiated Spurious Emissions	YES	PASS
3.5	§ 15.207 Conducted Emissions	YES	PASS
3.6	§ 2.1055 Frequency Stability	YES	PASS

3 Measurements and results

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 55 GHz in semi-anechoic chambers.

The receiving antennas 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 conform with ANSI C63.2-1996 item 15.

- 9 kHz - 150 kHz: Quasi Peak measurement, 200 Hz Bandwidth, passive loop antenna.
- 150 kHz - 30 MHz: Quasi Peak measurement, 9 kHz Bandwidth, passive loop antenna.
- 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 11.1
-----	-----------------------------

Results:

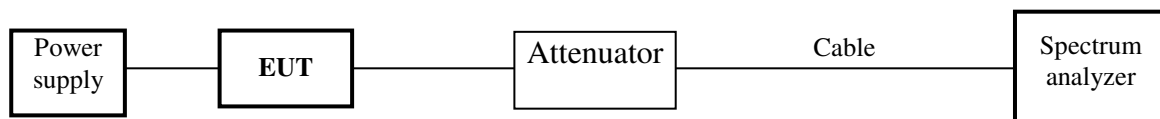
Bandwidth sweep mode	1.048 GHz
Low frequency	9.500 GHz
High frequency	10.548 GHz
10 dB Bandwidth low channel (sweep stopped)	432.7 kHz
10 dB Bandwidth mid channel (sweep stopped)	512.8 kHz
10 dB Bandwidth high channel (sweep stopped)	480.8 kHz
26 dB Bandwidth low channel (sweep stopped)	1.346 MHz
26 dB Bandwidth mid channel (sweep stopped)	1.506 MHz
26 dB Bandwidth high channel (sweep stopped)	1.234 MHz

Limit: RSS 210 Issue 7, Annex 11.1

8.5 – 10.55 GHz Swept frequency inside containers

Test Setup:

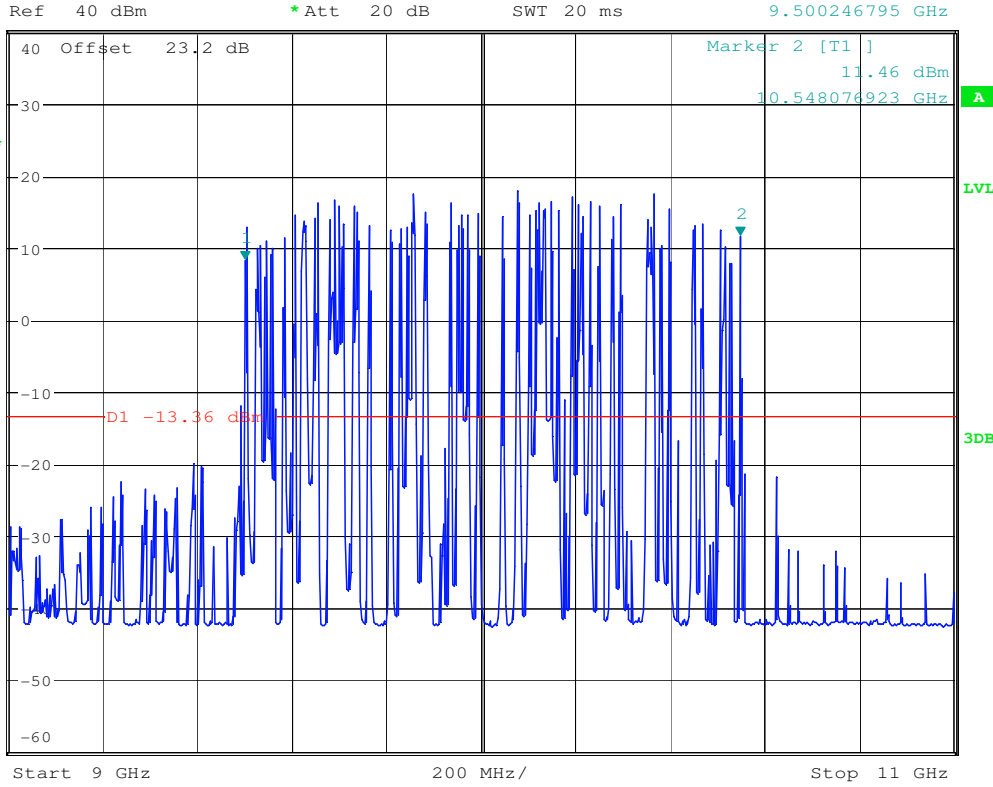
The emission bandwidth is determined with a spectrum analyzer in sweep mode and with sweep mode stopped.



Bandwidth sweep mode:

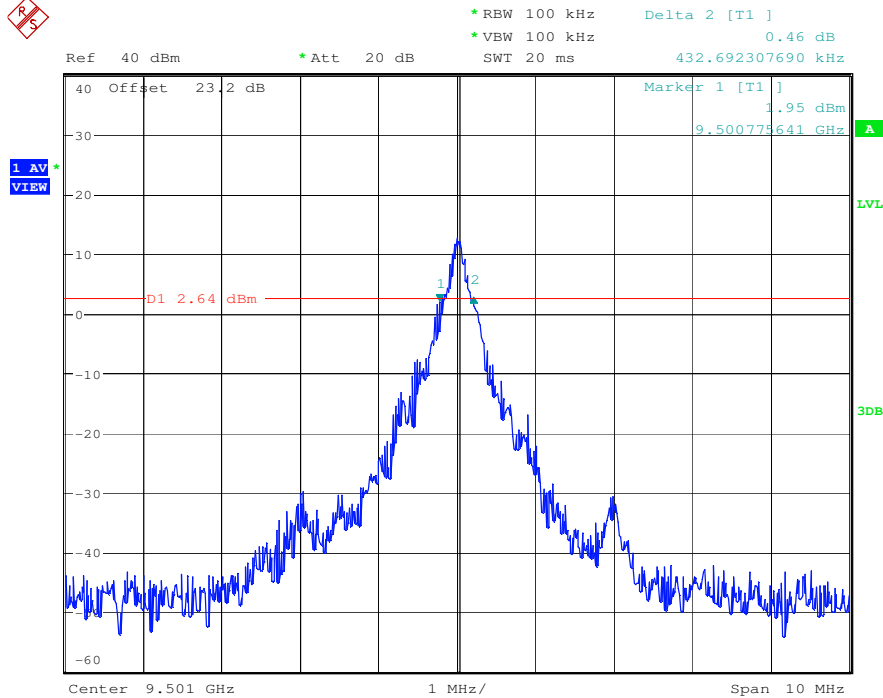


*RBW 1 MHz Marker 1 [T1] 8.16 dBm
*VBW 1 MHz 9.500246795 GHz
SWT 20 ms



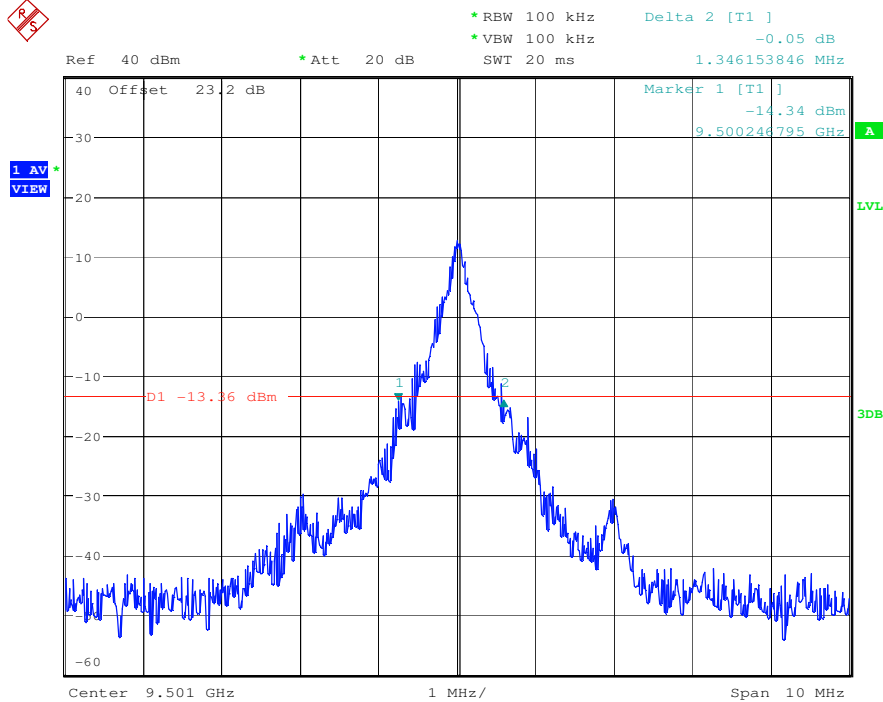
Date: 20.OCT.2009 11:25:24

10 dB Bandwidth low channel (sweep mode stopped):



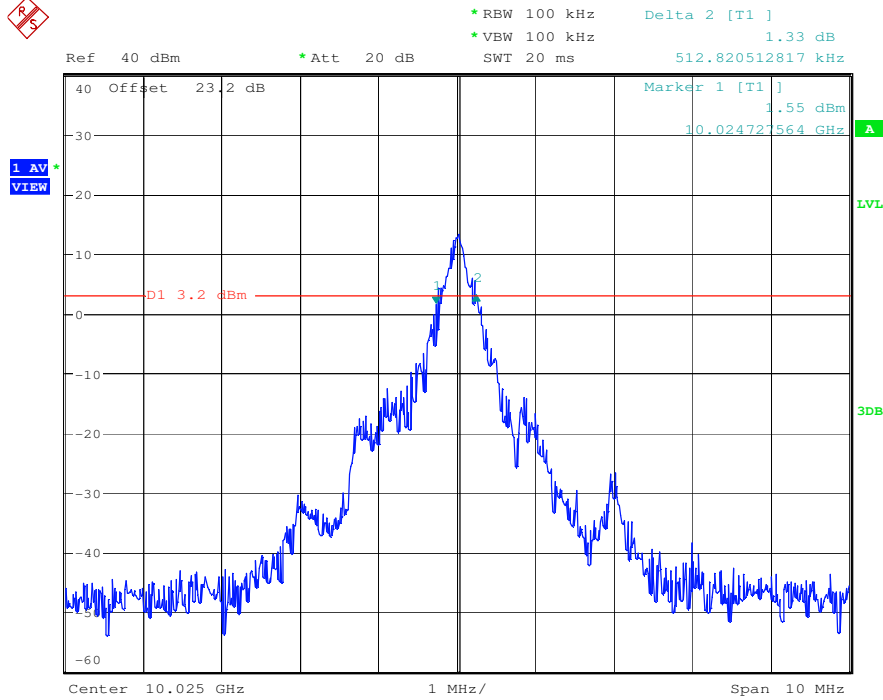
Date: 20.OCT.2009 11:13:53

26 dB Bandwidth low channel (sweep mode stopped):



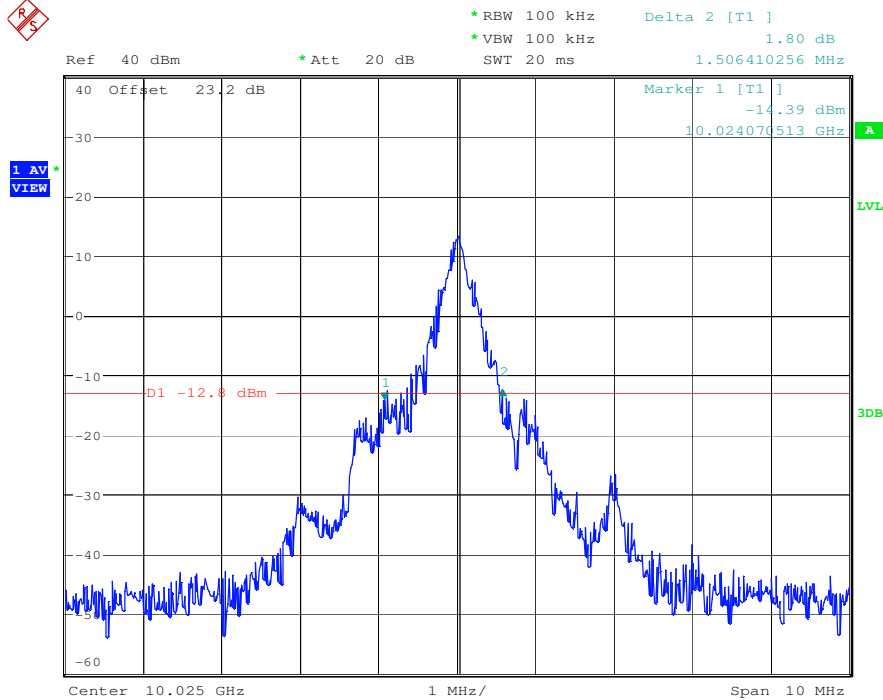
Date: 20.OCT.2009 11:15:16

10 dB Bandwidth mid channel (sweep mode stopped):



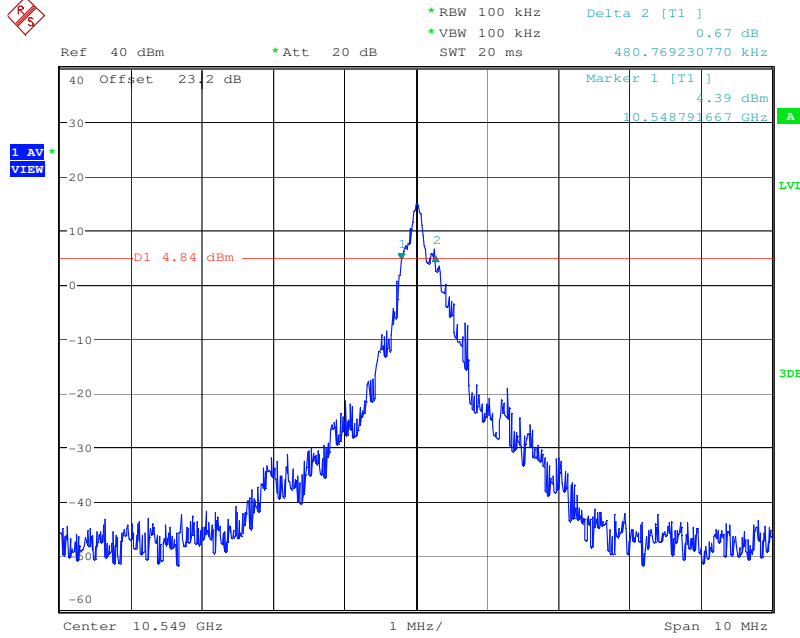
Date: 20.OCT.2009 11:11:00

26 dB Bandwidth mid channel (sweep mode stopped):



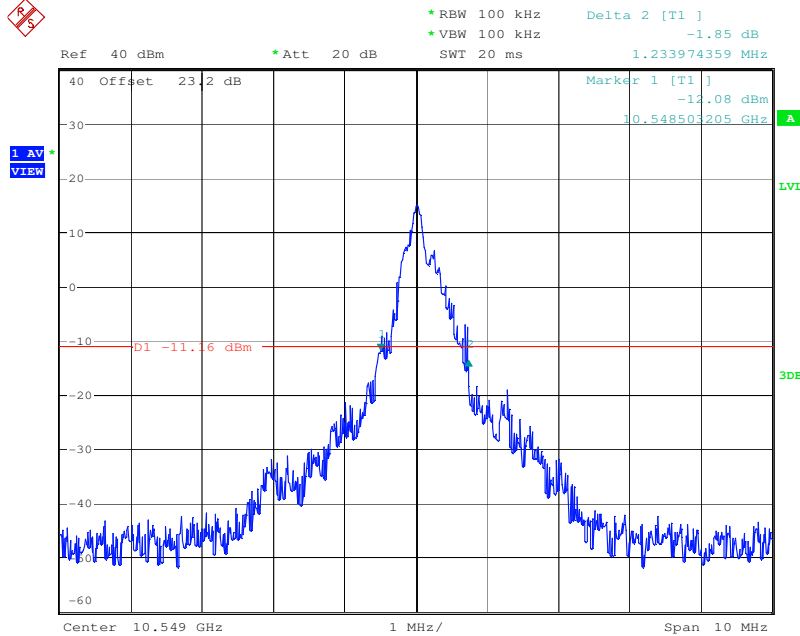
Date: 20.OCT.2009 11:11:59

10 dB Bandwidth high channel (sweep mode stopped):



Date: 20.OCT.2009 11:07:33

26 dB Bandwidth high channel (sweep mode stopped):



Date: 20.OCT.2009 11:08:47

3.2 Conducted Output Power

Reference

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

Results:

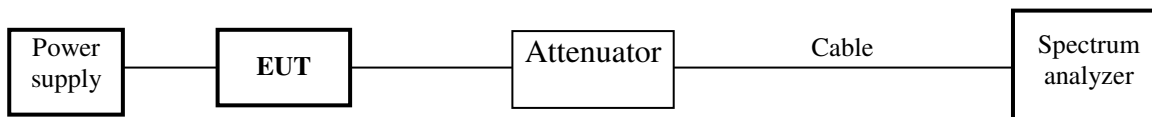
Operation mode:	Conducted output power
Low channel	21.5 μ W (-16.68 dBm)
Mid channel	61.2 μ W (-12.13 dBm)
High Channel	27.7 μ W (-15.58 dBm)

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

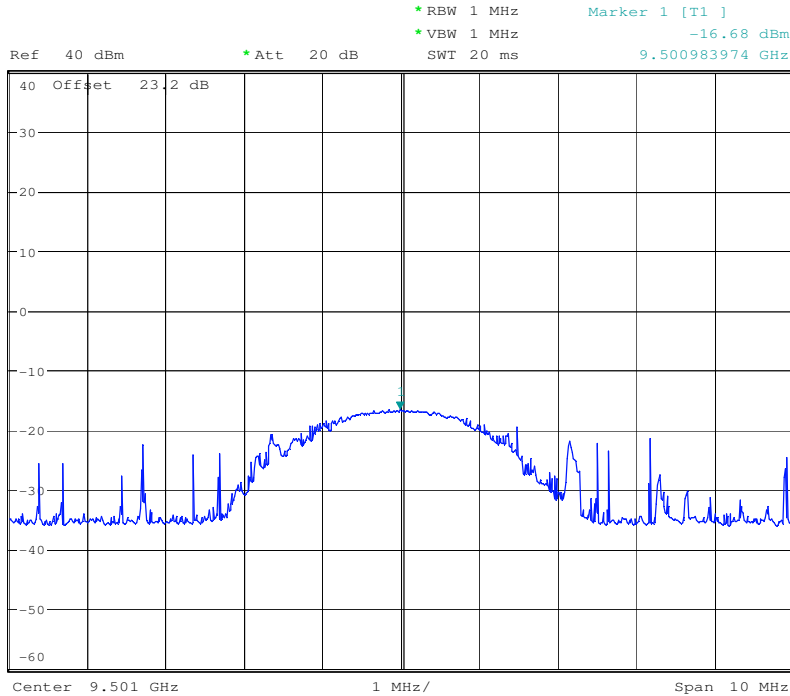
The transmitter output power shall not exceed 8 milliwatts at the connector to the antenna.

Test Setup:

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

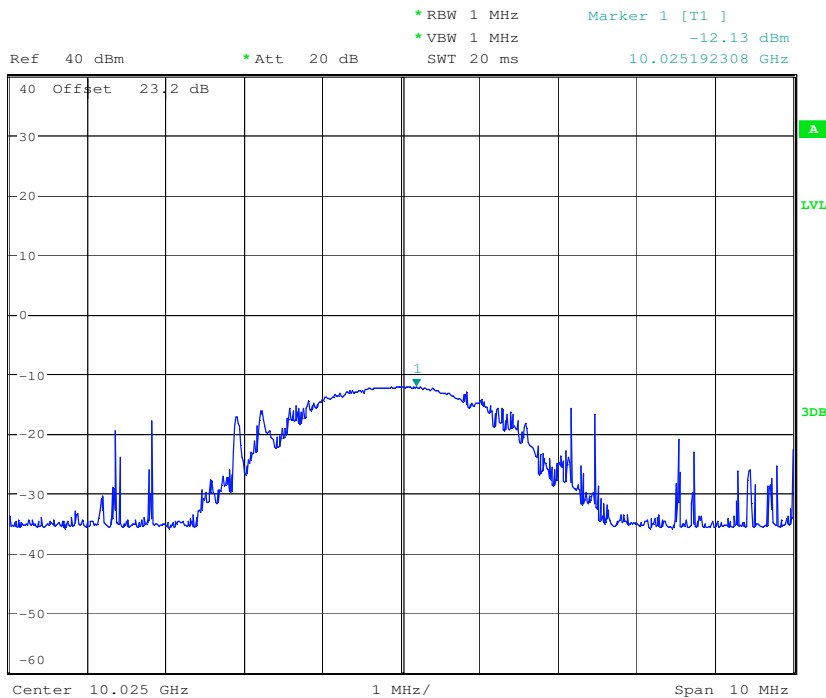


Sweep stopped at low channel



Date: 20.OCT.2009 10:28:41

Sweep stopped at mid channel

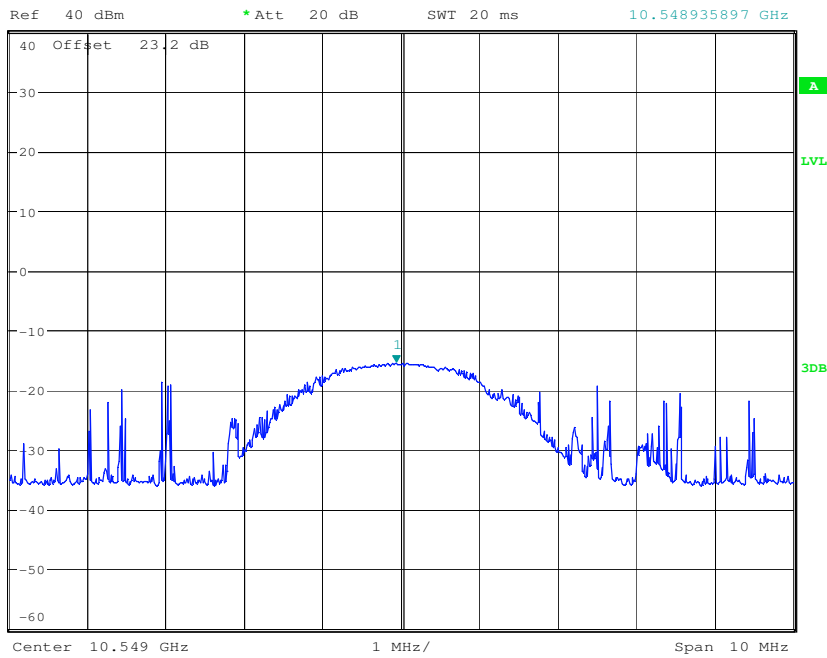


Date: 20.OCT.2009 10:30:20

Sweep stopped at high channel



* RBW 1 MHz Marker 1 [T1]
* VBW 1 MHz -15.58 dBm
SWT 20 ms 10.548935897 GHz



Date: 20.OCT.2009 10:32:14

3.3 Field Strength of the Fundamental

Reference

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

MAXIMUM FIELD STRENGTH RADIATED (PEAK)

TEST CONDITIONS	MAXIMUM POWER (dB μ V/m at 3m)		
	9.5 – 10.55 GHz	Limit	--
Frequency			
Angle = 0 degree / 360 degree	< Limit (see plot)	54 dB μ V/m	
Angle = 45 degree	< Limit (see plot)	54 dB μ V/m	
Angle = 90 degree	< Limit (see plot)	54 dB μ V/m	
Angle = 135 degree	< Limit (see plot)	54 dB μ V/m	
Angle = 180 degree	< Limit (see plot)	54 dB μ V/m	
Angle = 225 degree	< Limit (see plot)	54 dB μ V/m	
Angle = 270 degree	< Limit (see plot)	54 dB μ V/m	
Angle = 315 degree	< Limit (see plot)	54 dB μ V/m	
Maximum deviation from output power under extreme test conditions (dBc)	--	--	--
Measurement uncertainty	\pm 3dB		

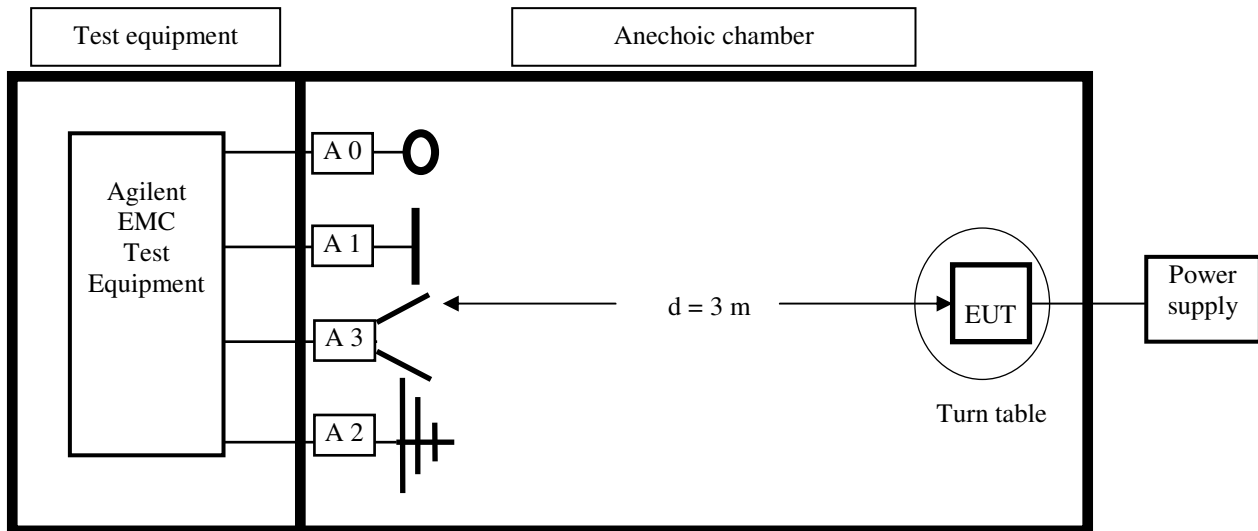
RBW/VBW : 1 MHz

Limits: RSS 210 Issue 7:

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

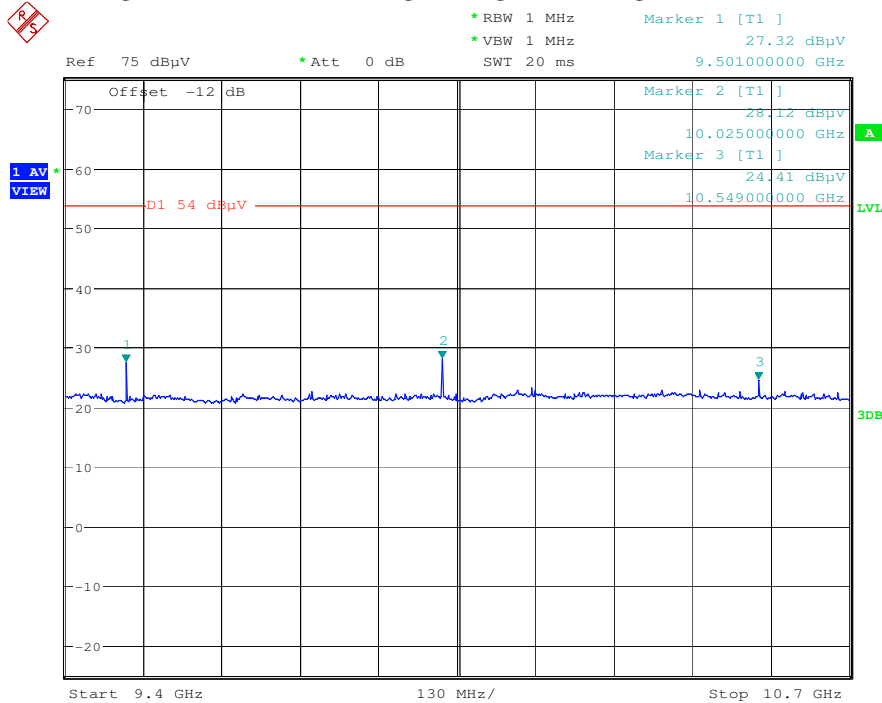
30-88	100 (3 nW)
88-216	150 (6.8 nW)
216-960	200 (12 nW)
Above 960	500 (75 nW) = 54 dB μ V/m

Test Setup:



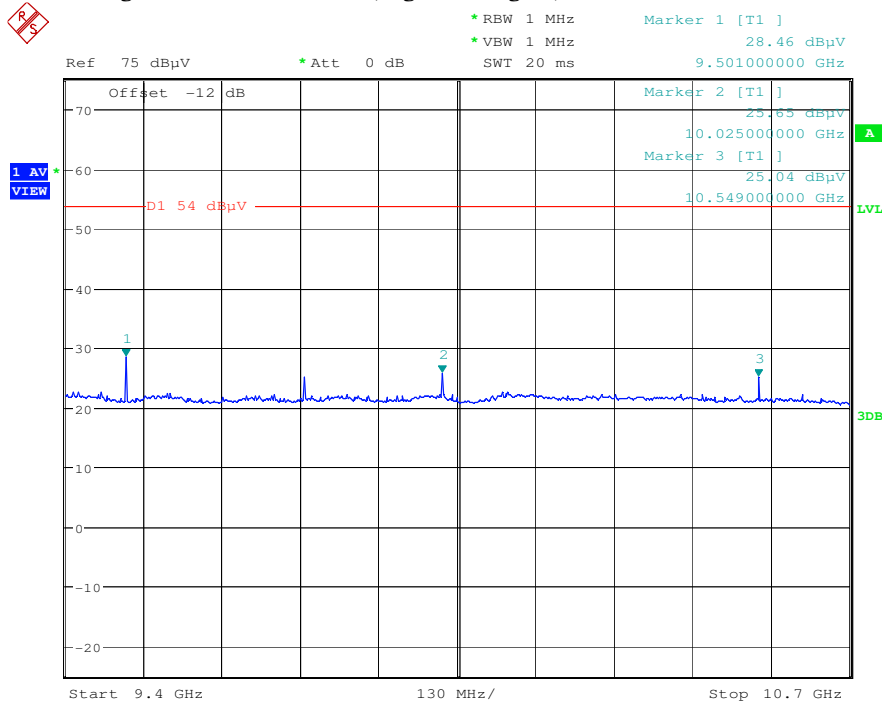
The field strength is measured in an anechoic chamber with a measurement distance of 3 m.
The EUT is standing on a turn table, which is turned in 45° steps.
Measurement antenna is a waveguide horn (A3 in the picture above).

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



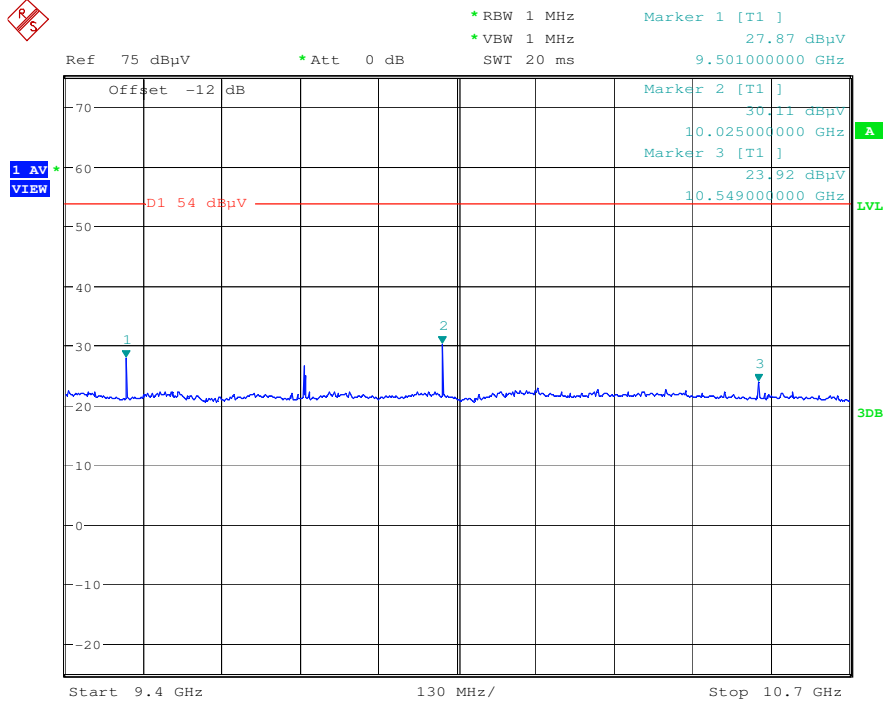
Date: 19.OCT.2009 10:45:18

Field strength of the fundamental (angle: 45 degree)



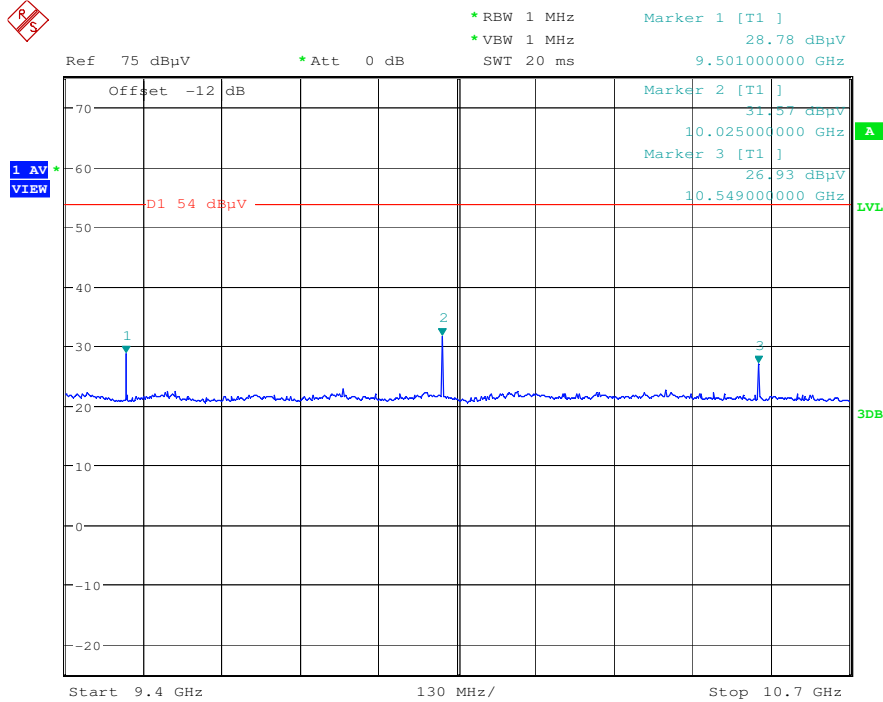
Date: 19.OCT.2009 10:48:24

Field strength of the fundamental (angle: 90 degree)



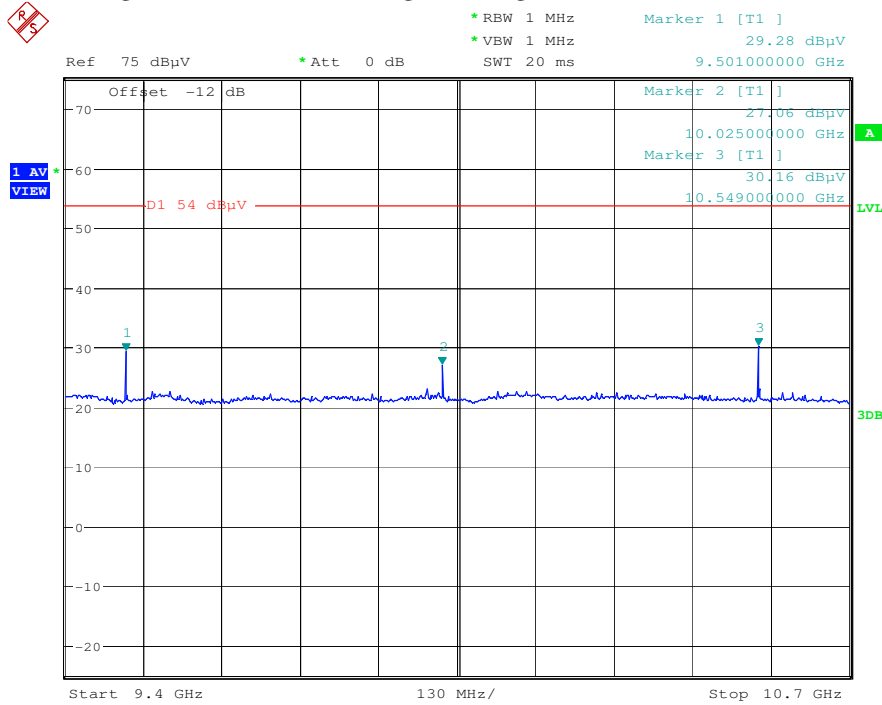
Date: 19.OCT.2009 10:51:59

Field strength of the fundamental (angle: 135 degree)



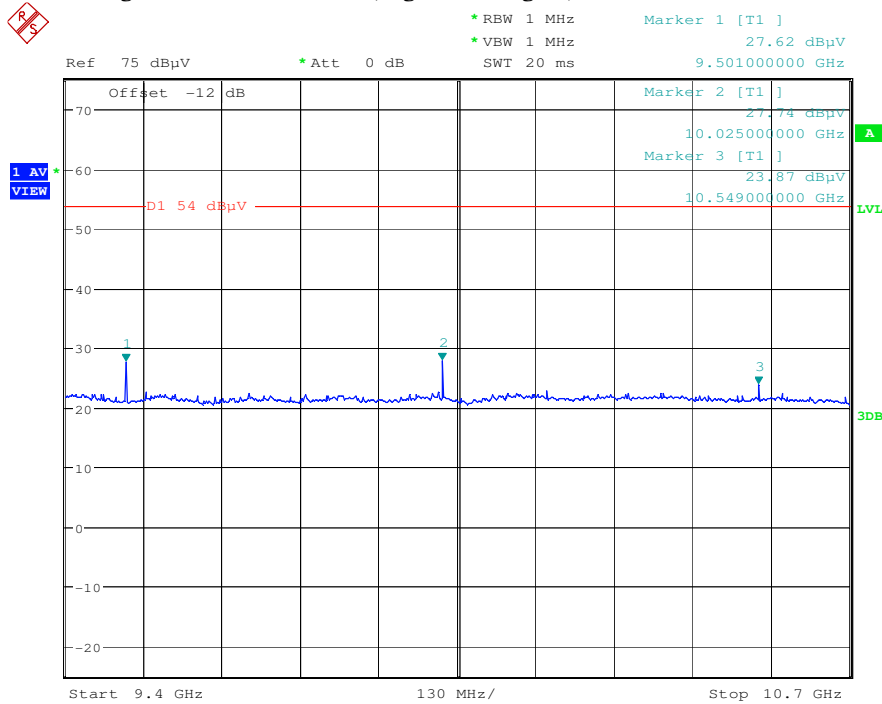
Date: 19.OCT.2009 10:53:02

Field strength of the fundamental (angle:180 degree)



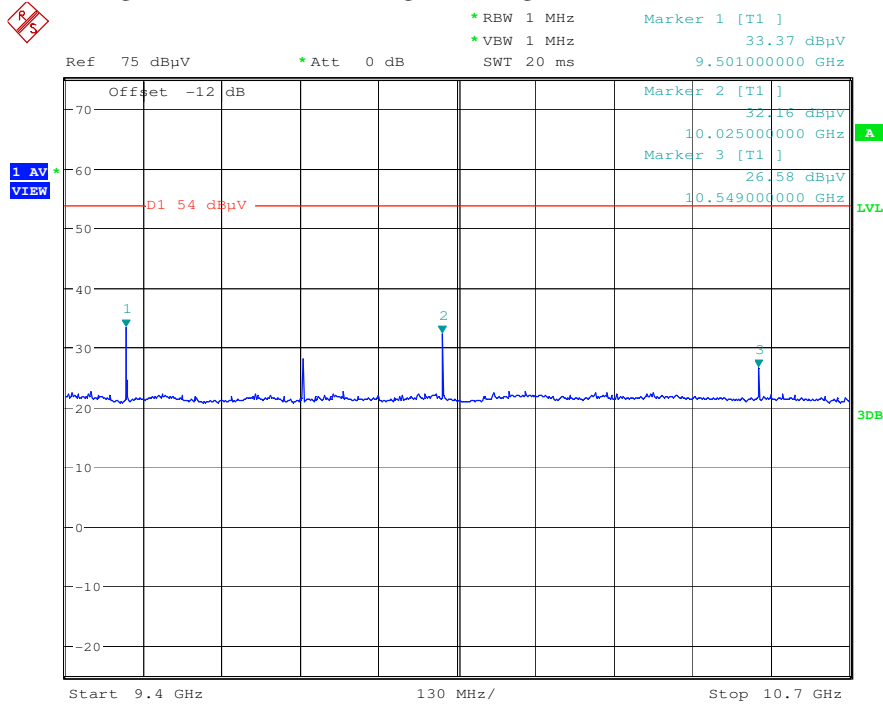
Date: 19.OCT.2009 10:54:12

Field strength of the fundamental (angle: 225 degree)



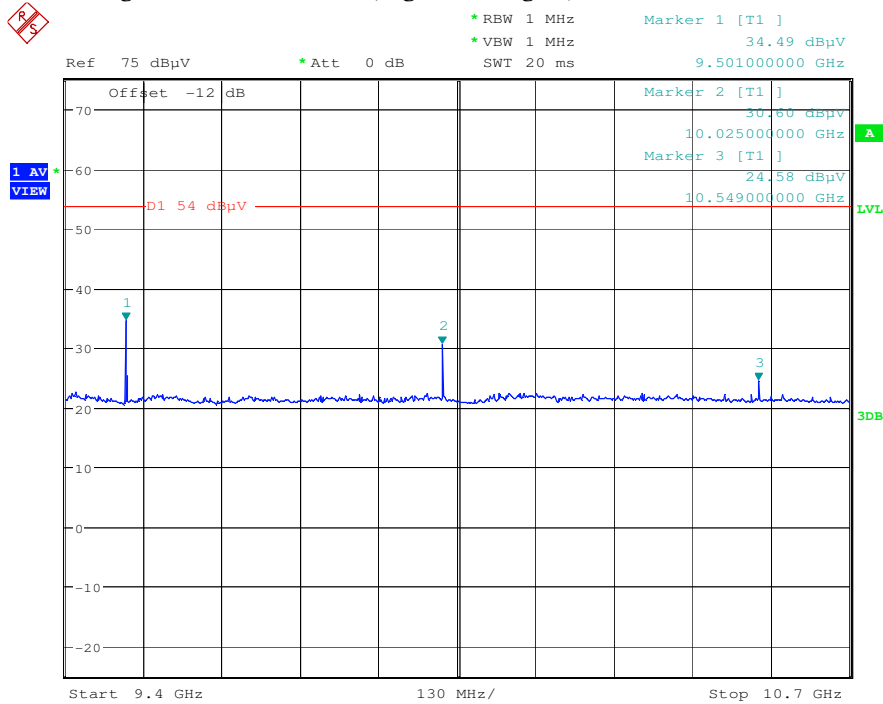
Date: 19.OCT.2009 10:55:21

Field strength of the fundamental (angle: 270 degree)



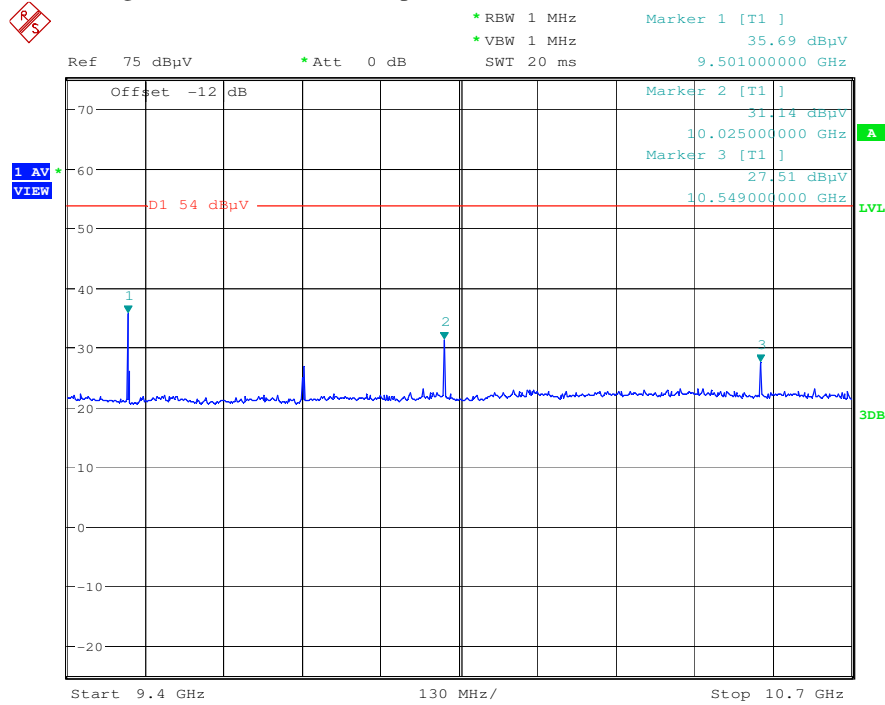
Date: 19.OCT.2009 10:56:43

Field strength of the fundamental (angle: 315 degree)



Date: 19.OCT.2009 10:58:45

Field strength of the fundamental (top view)



Date: 19.OCT.2009 11:01:55

3.4 Field Strength of the Spurious Emissions

Reference

IC:	RSS-210 Issue 7, § 2.6
FCC:	CFR 47 Part 15.209

MAXIMUM FIELD STRENGTH RADIATED (PEAK)

TEST CONDITIONS Frequency	MAXIMUM POWER (dB μ V/m at 3m)		
	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
Measurement uncertainty	±3dB		

RBW/VBW : 1 MHz

Limits:

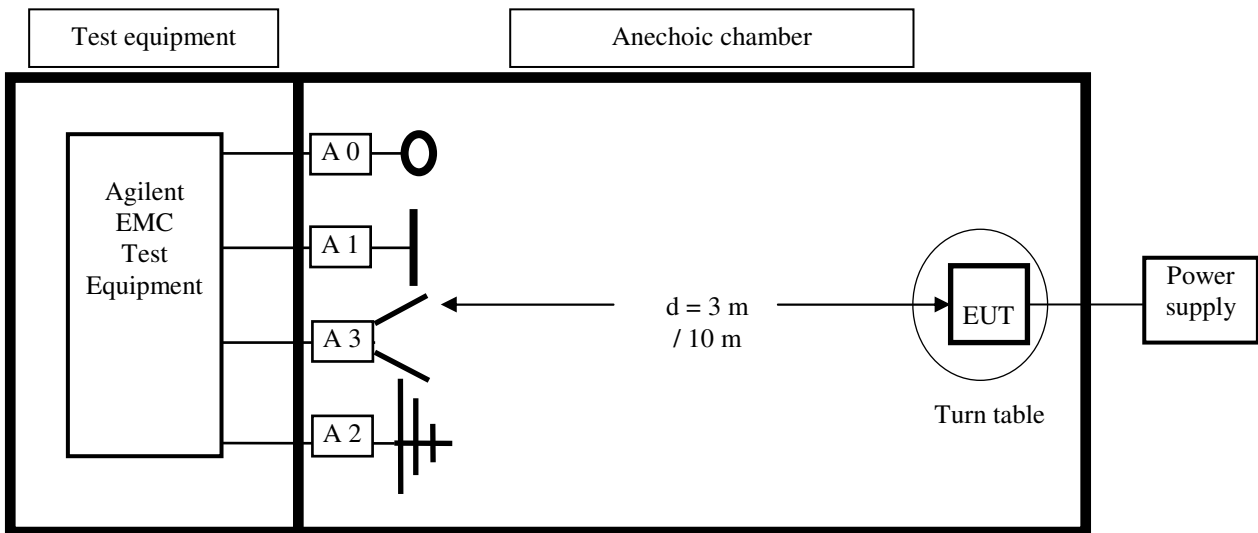
Part 15.209 General Emission Limits:

RSS 210 Issue 7:

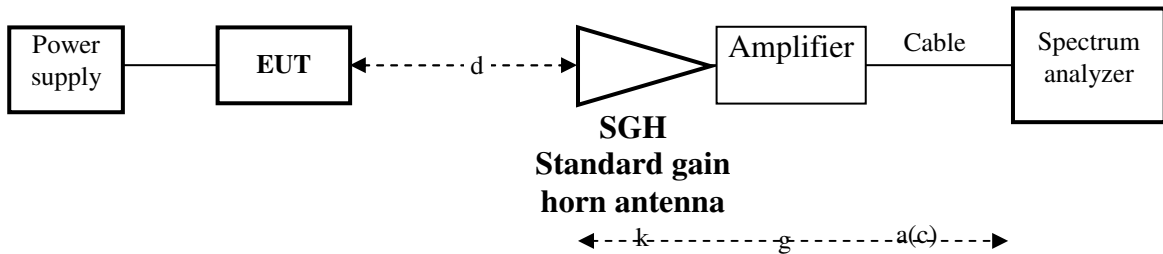
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Test Setup:

Frequency range: 9 kHz - 12 GHz:

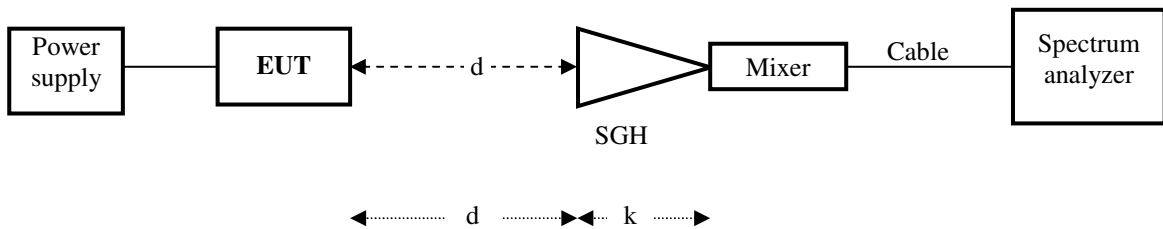


Frequency range: 12 GHz - 50 GHz:



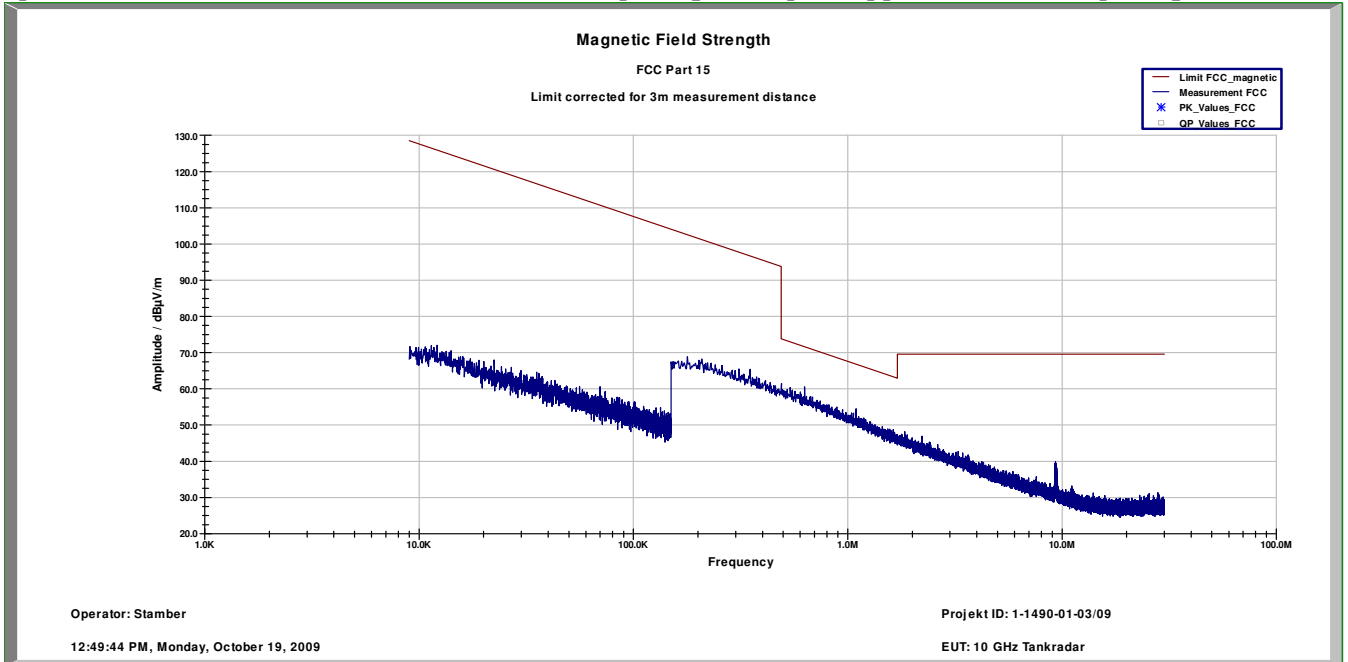
Calculation : Field strength = analyser reading + cable loss - amplifier gain + antenna factor
 $e \text{ [dB}(\mu\text{V/m)}] = u \text{ [dB}(\mu\text{V)}] + a \text{ [dB]} - g \text{ [dB]} + k \text{ [dB(1/m)]}$

Frequency range: 50 GHz - 110 GHz:

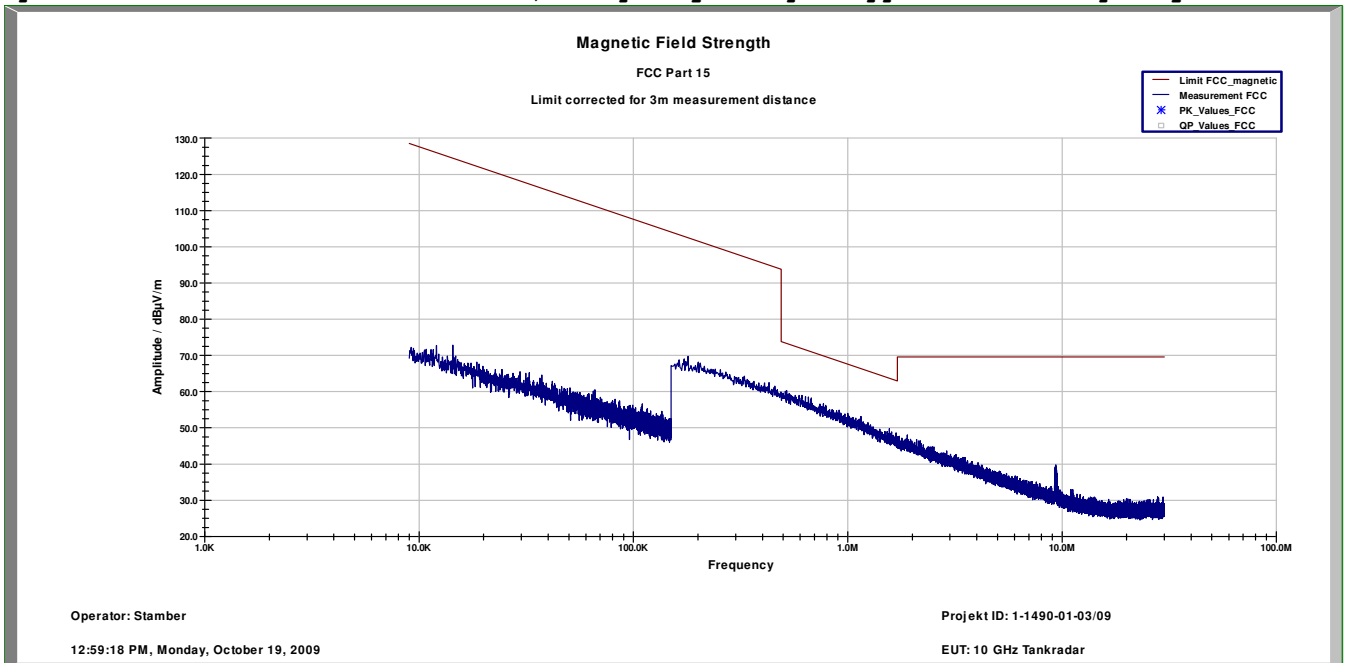


Field strength = analyser reading + antenna factor - distance correction
 $e \text{ [dB}(\mu\text{V/m)}] = u \text{ [dB}(\mu\text{V)}] + k \text{ [dB(1/m)]} - d \text{ [dB]}$

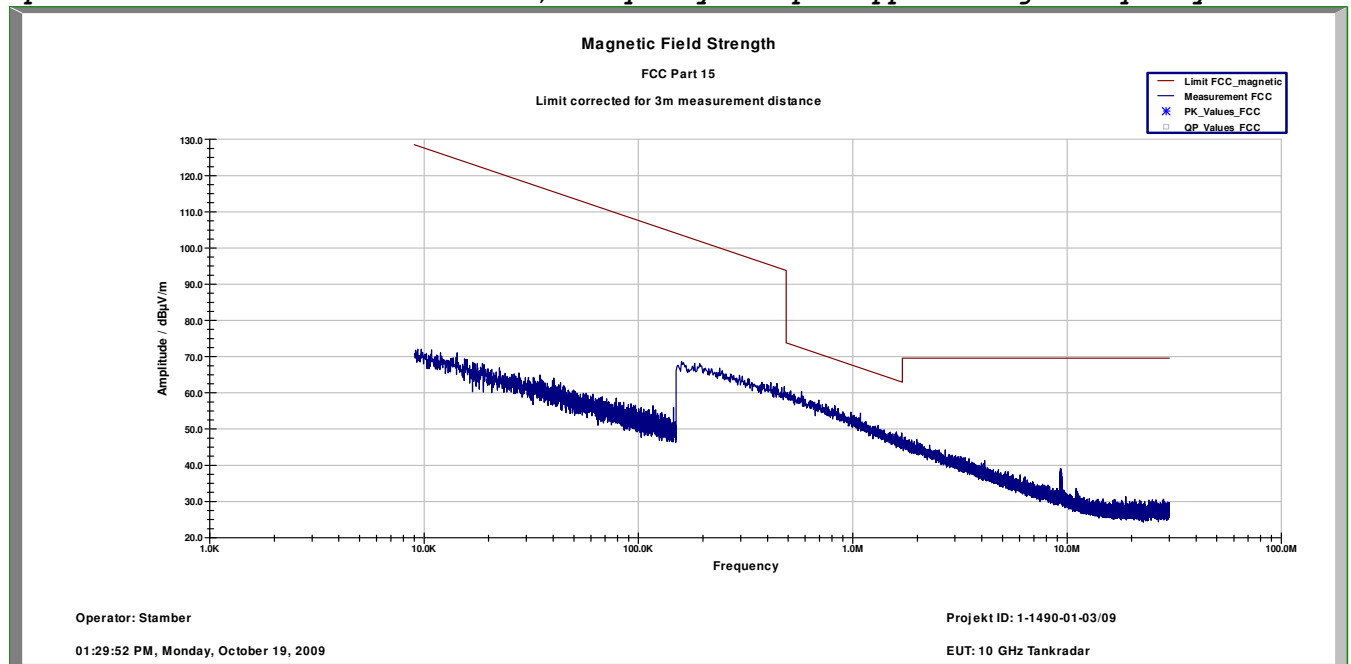
Spurious Emissions 9 kHz - 30 MHz, frequency sweep stopped - low frequency



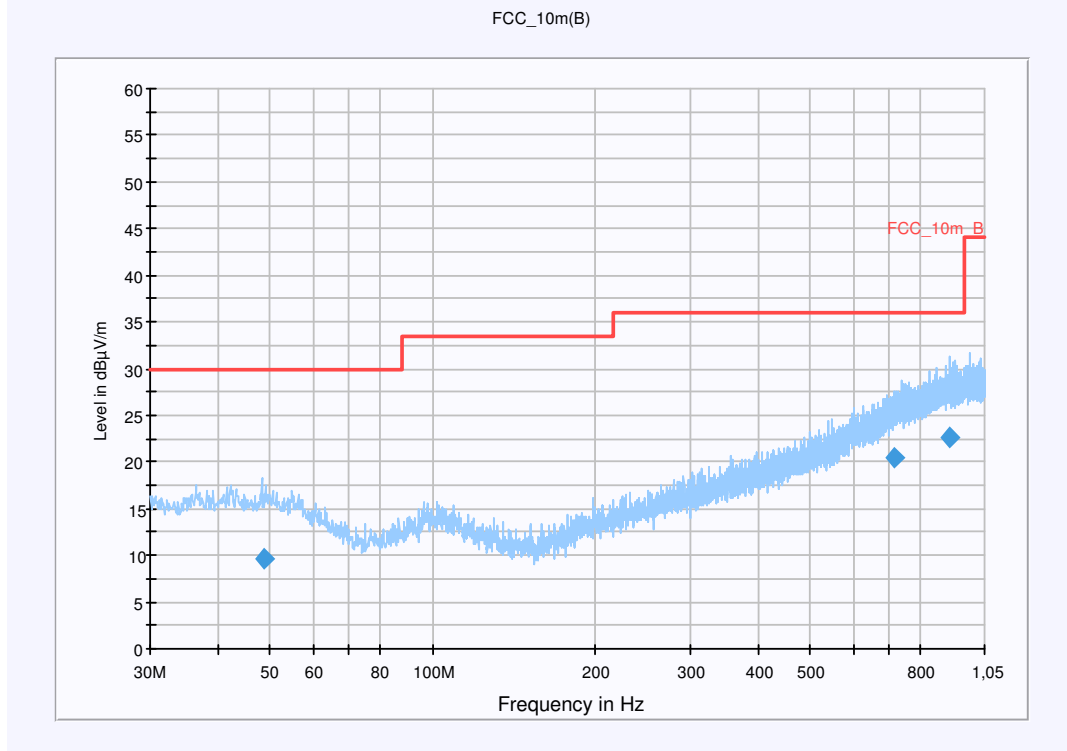
Spurious Emissions 9 kHz - 30 MHz, frequency sweep stopped - mid frequency



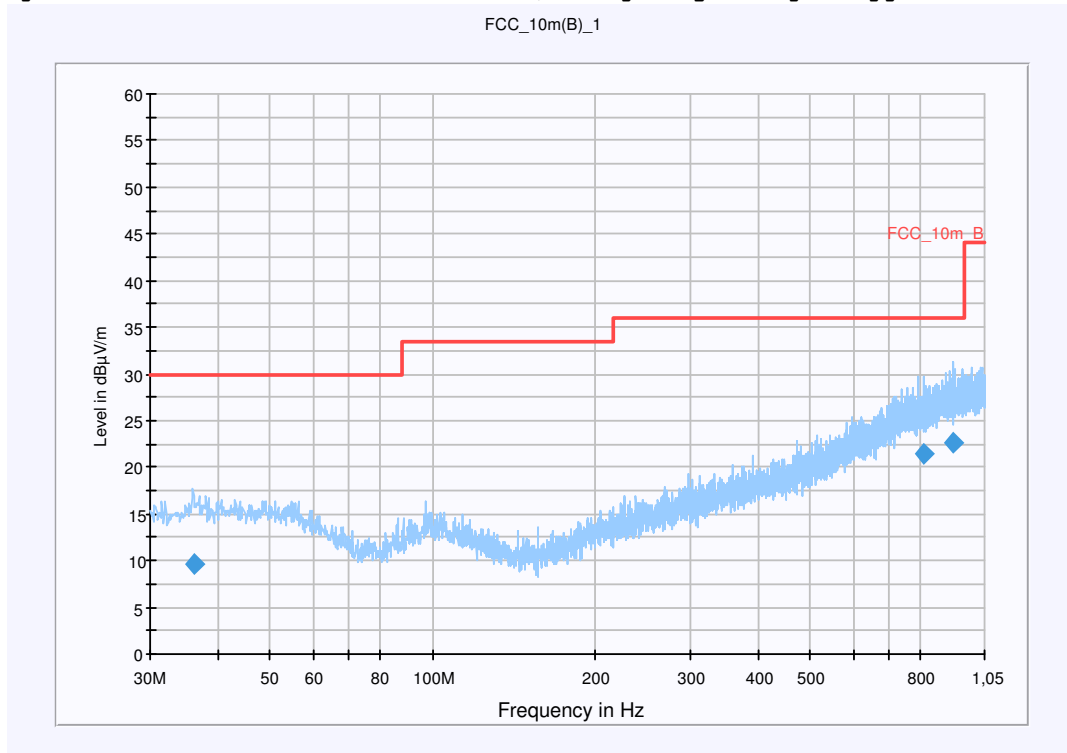
Spurious Emissions 9 kHz - 30 MHz, frequency sweep stopped - high frequency



Spurious Emissions 30 MHz - 1 GHz, frequency sweep stopped - low frequency

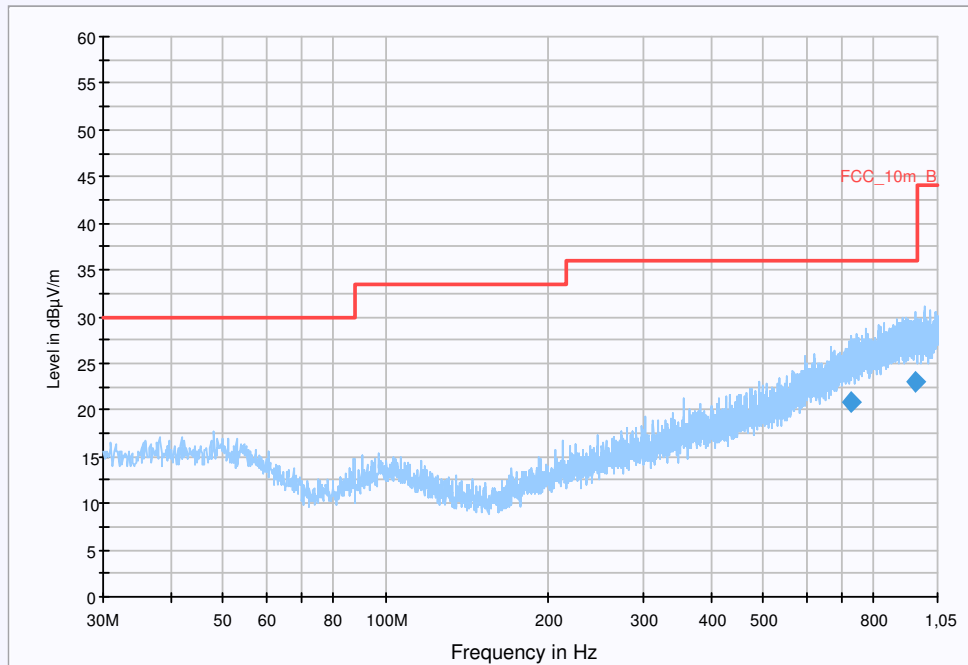


Spurious Emissions 30 MHz - 1 GHz, frequency sweep stopped - mid frequency

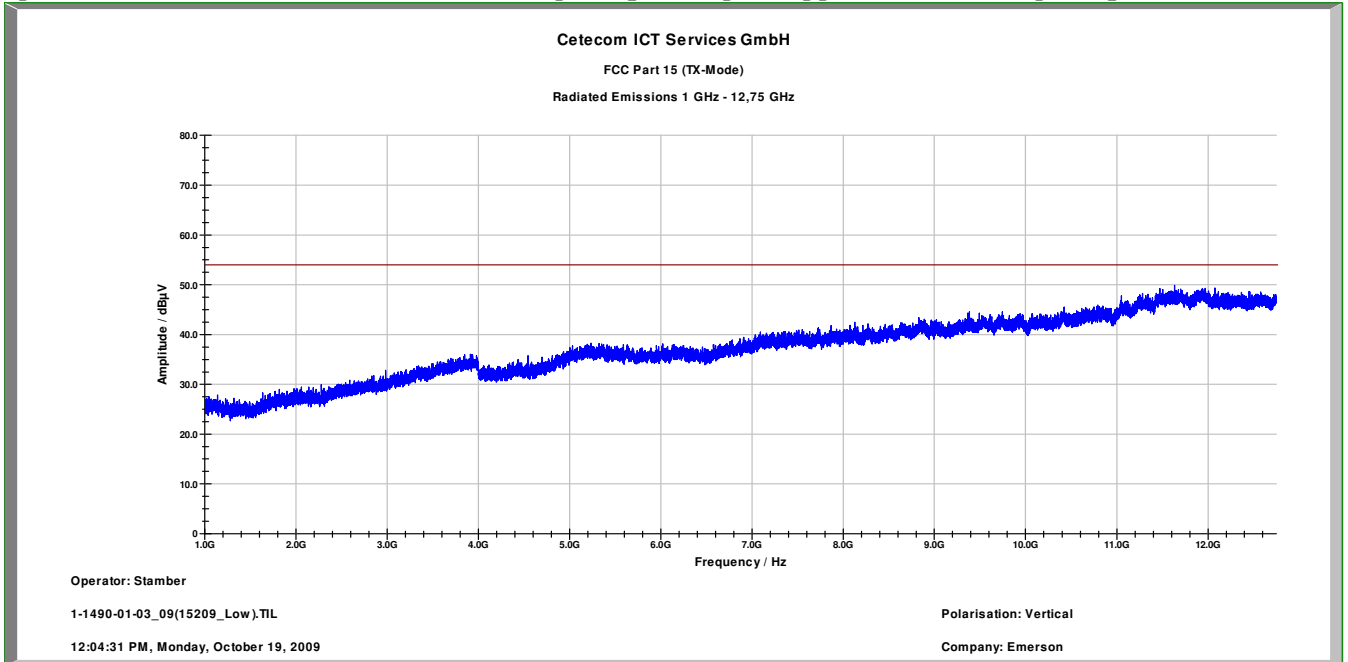


Spurious Emissions 30 MHz - 1 GHz, frequency sweep stopped - high frequency

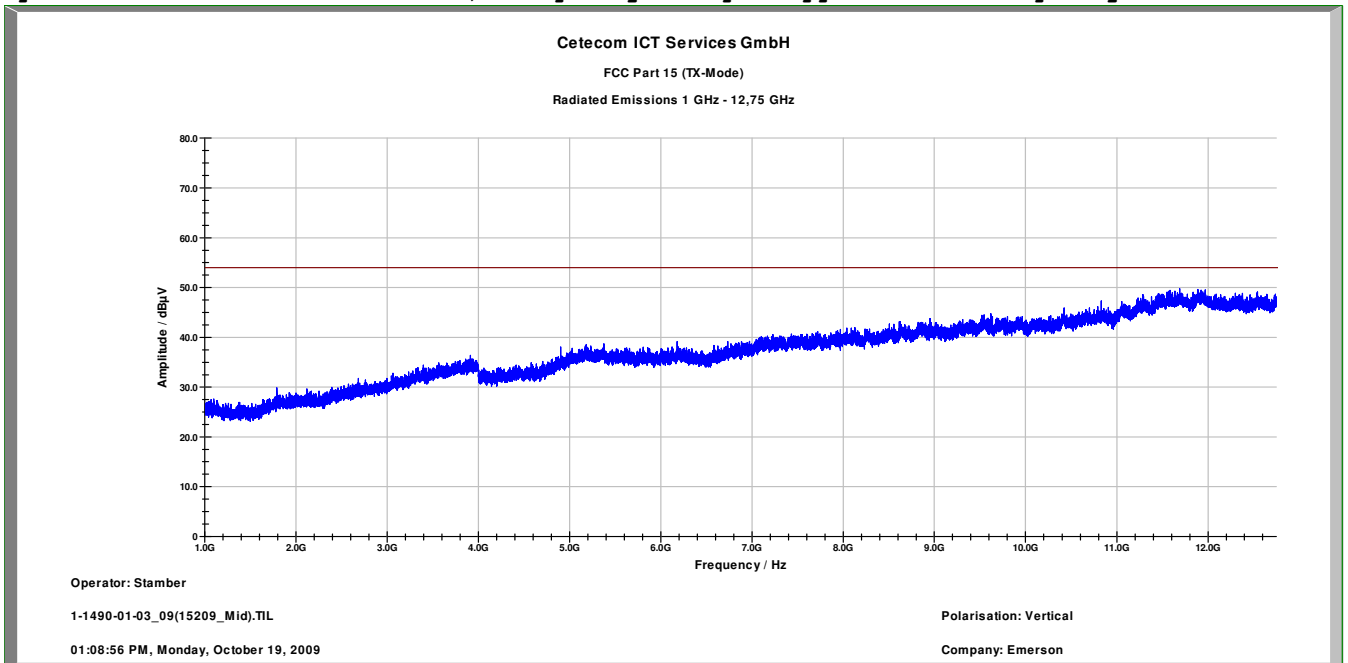
FCC_10m(B)_1



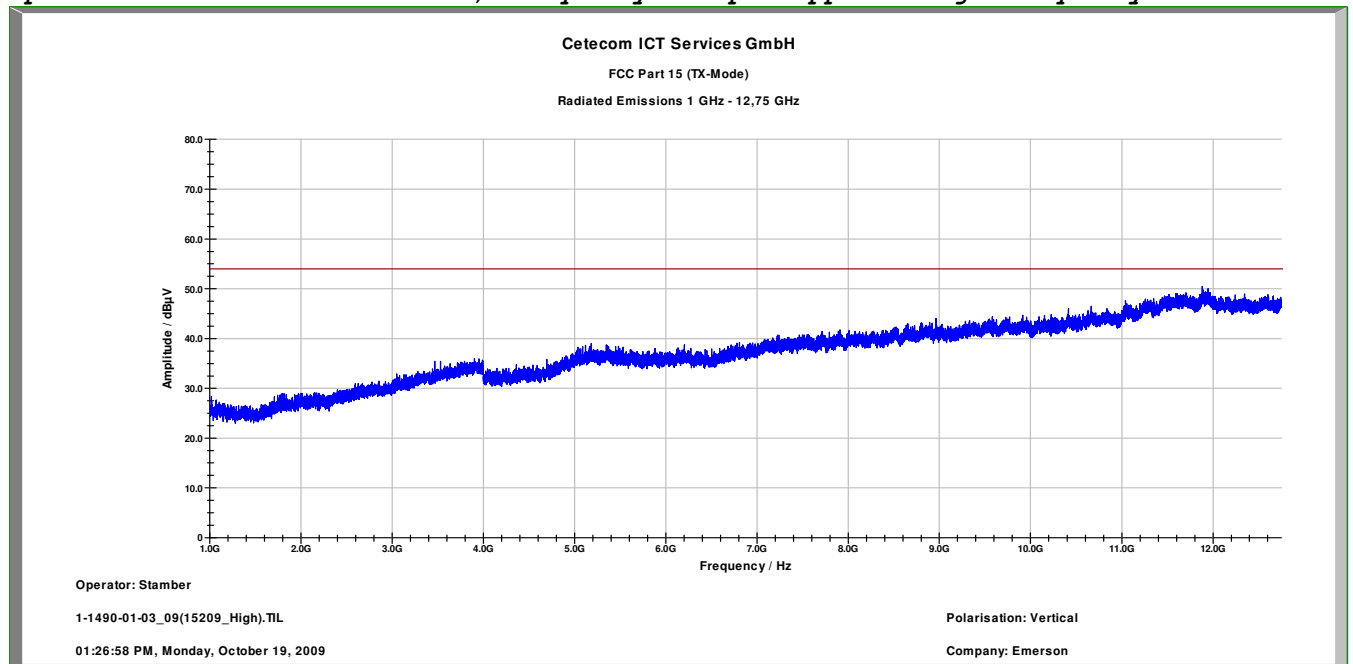
Spurious Emissions 1 - 12 GHz, frequency sweep stopped - low frequency



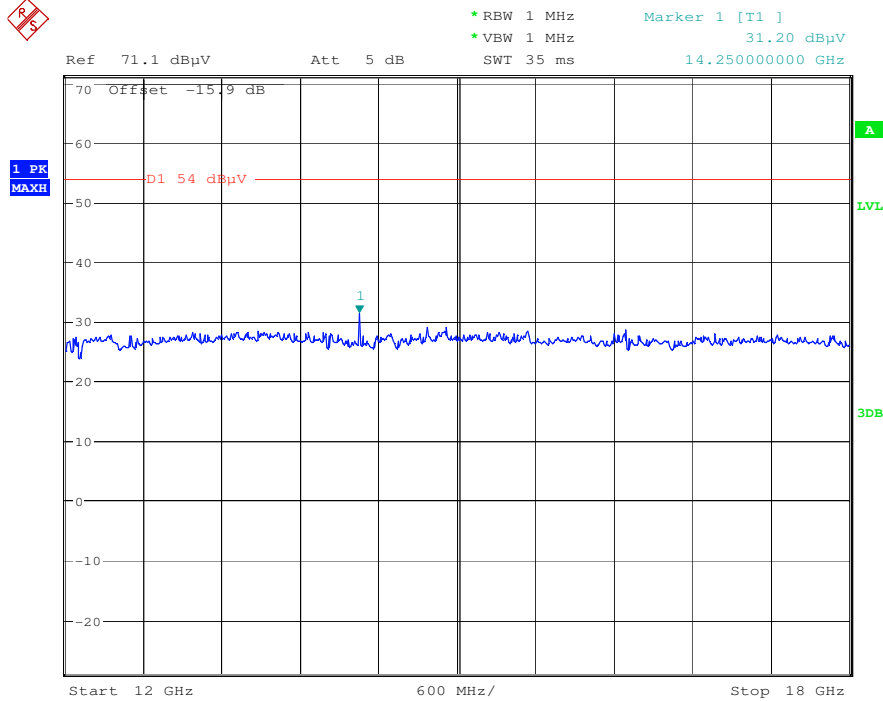
Spurious Emissions 1 - 12 GHz, frequency sweep stopped - mid frequency



Spurious Emissions 1 - 12 GHz, frequency sweep stopped - high frequency

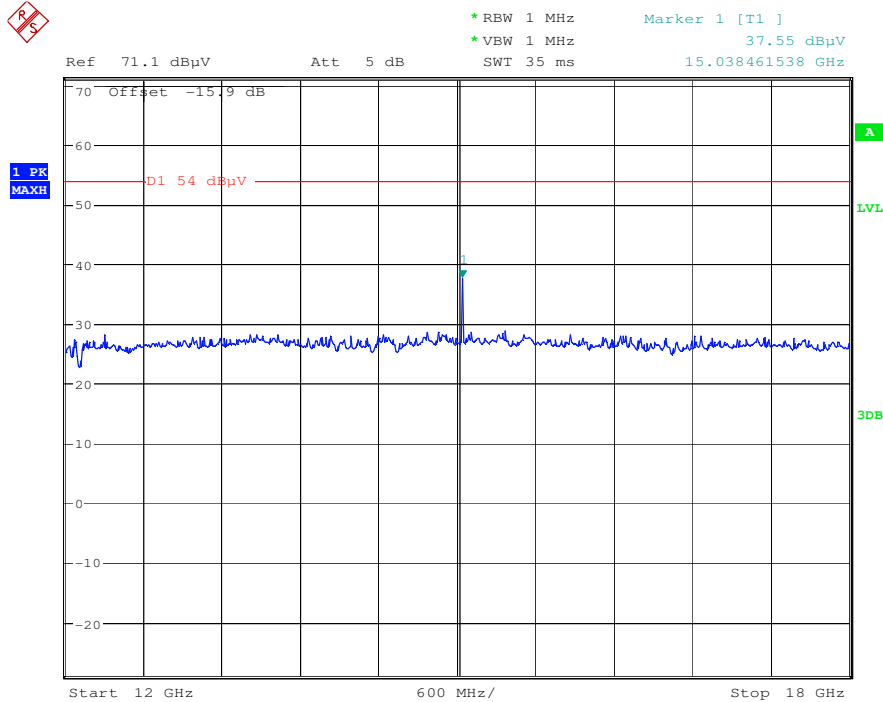


Spurious Emissions 12 - 18 GHz, frequency sweep stopped - low frequency



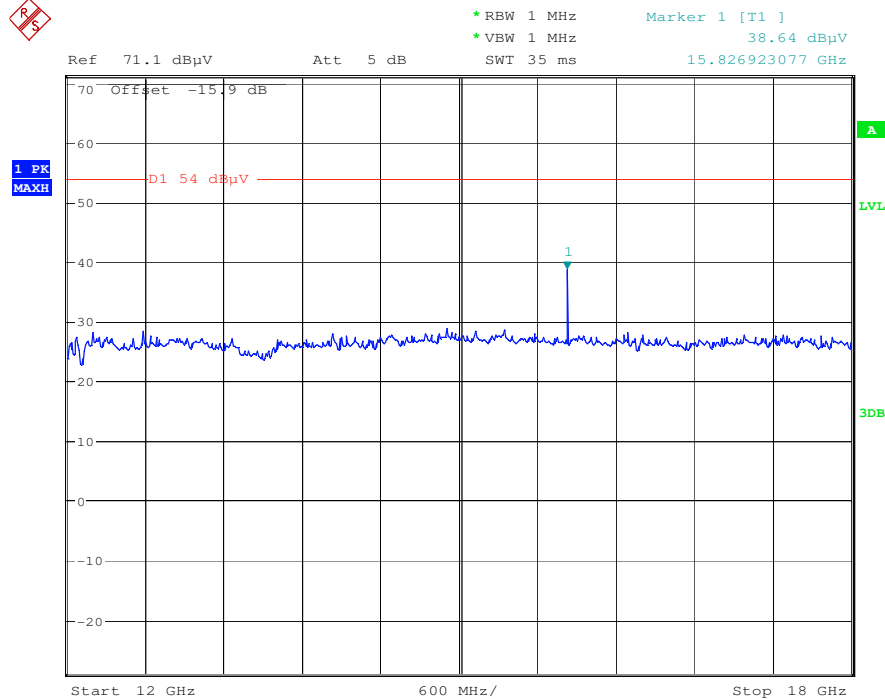
Date: 5.OCT.2009 15:29:50

Spurious Emissions 12 - 18 GHz, frequency sweep stopped - mid frequency



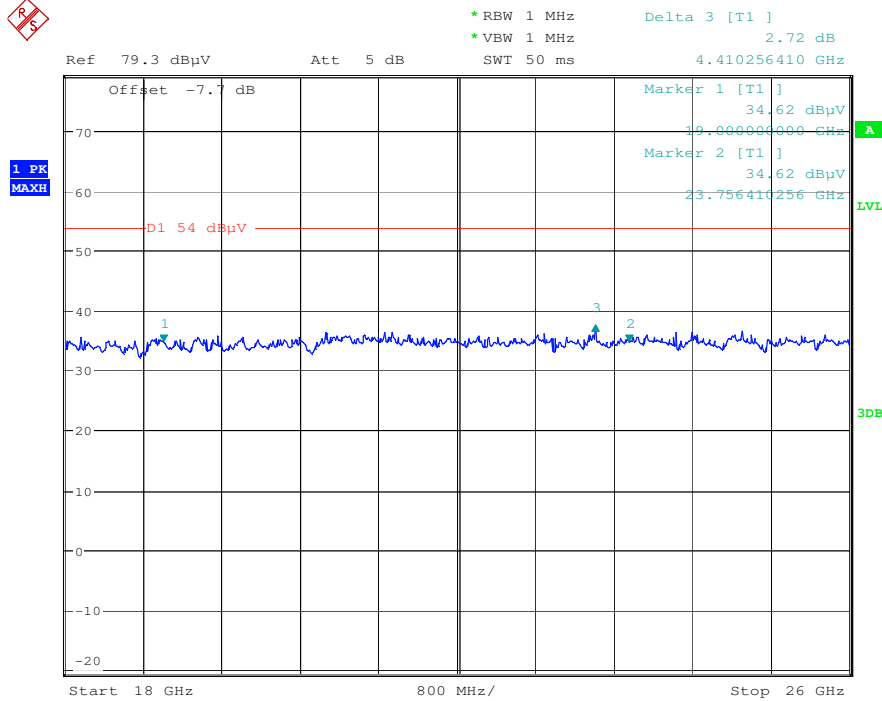
Date: 5.OCT.2009 15:31:44

Spurious Emissions 12 - 18 GHz, frequency sweep stopped - high frequency



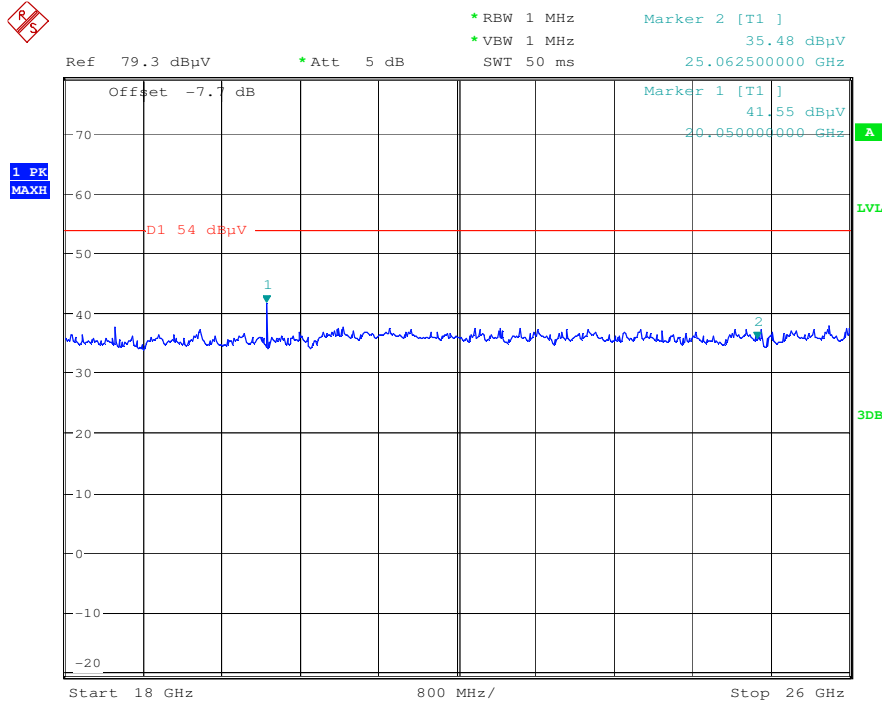
Date: 5.OCT.2009 15:34:14

Spurious Emissions 18 - 26 GHz, frequency sweep stopped - low frequency



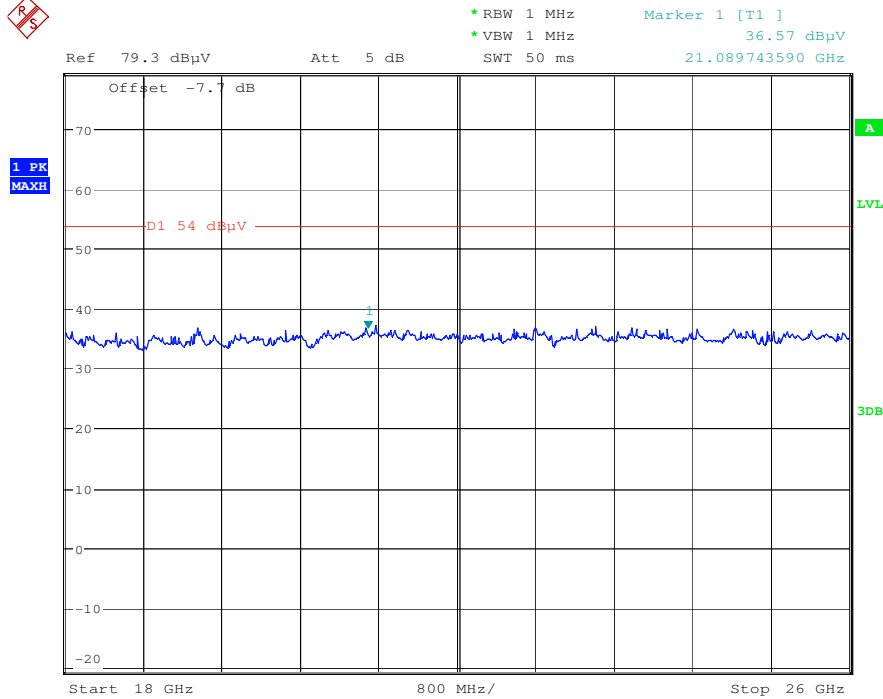
Date: 5.OCT.2009 15:46:34

Spurious Emissions 18 - 26 GHz, frequency sweep stopped - mid frequency



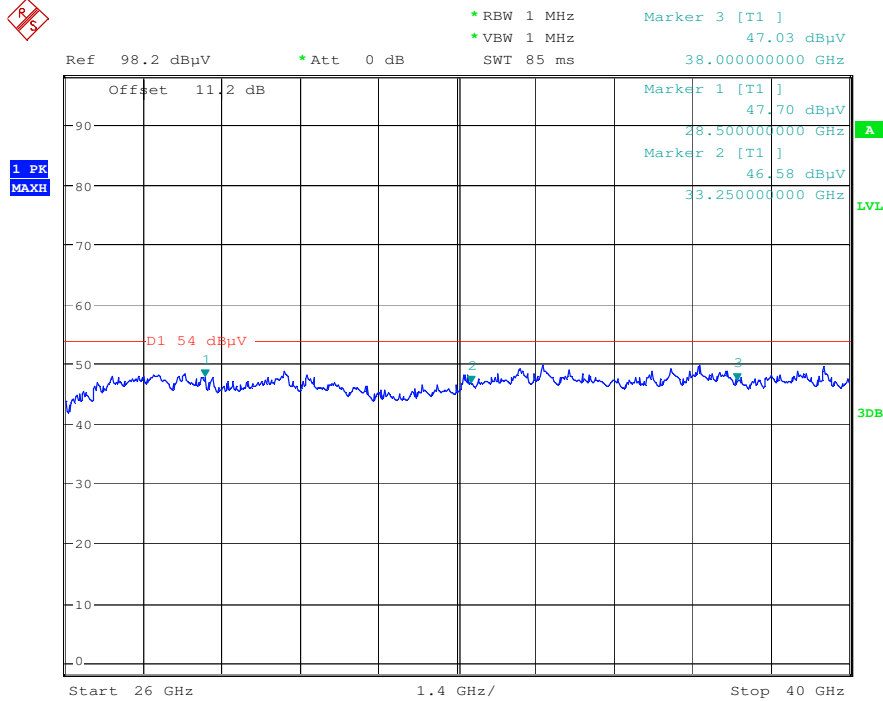
Date: 5.OCT.2009 16:44:01

Spurious Emissions 18 - 26 GHz, frequency sweep stopped - high frequency



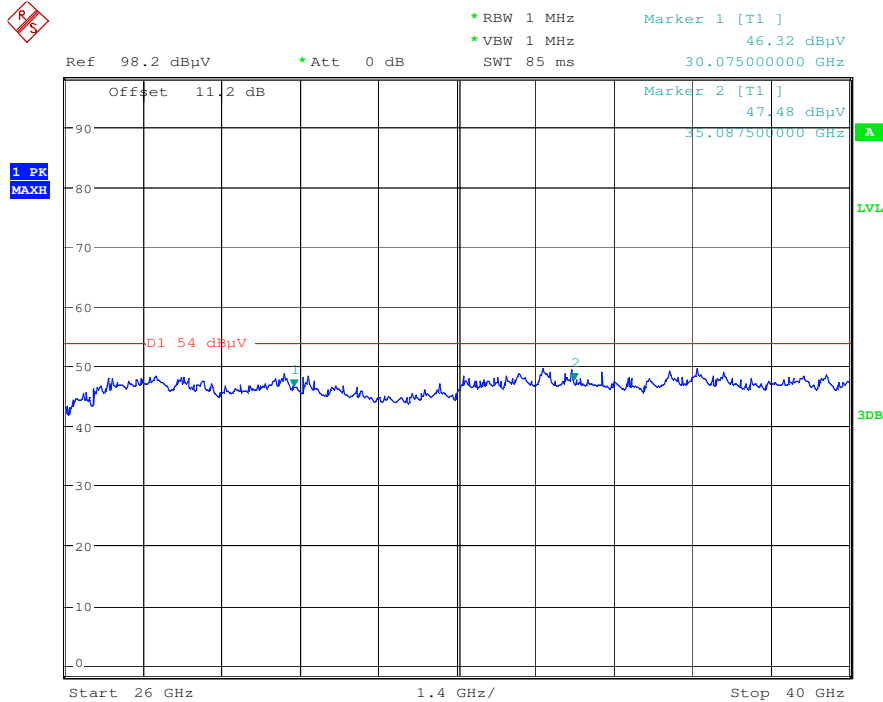
Date: 5.OCT.2009 15:40:35

Spurious Emissions 26 - 40 GHz, frequency sweep stopped - low frequency



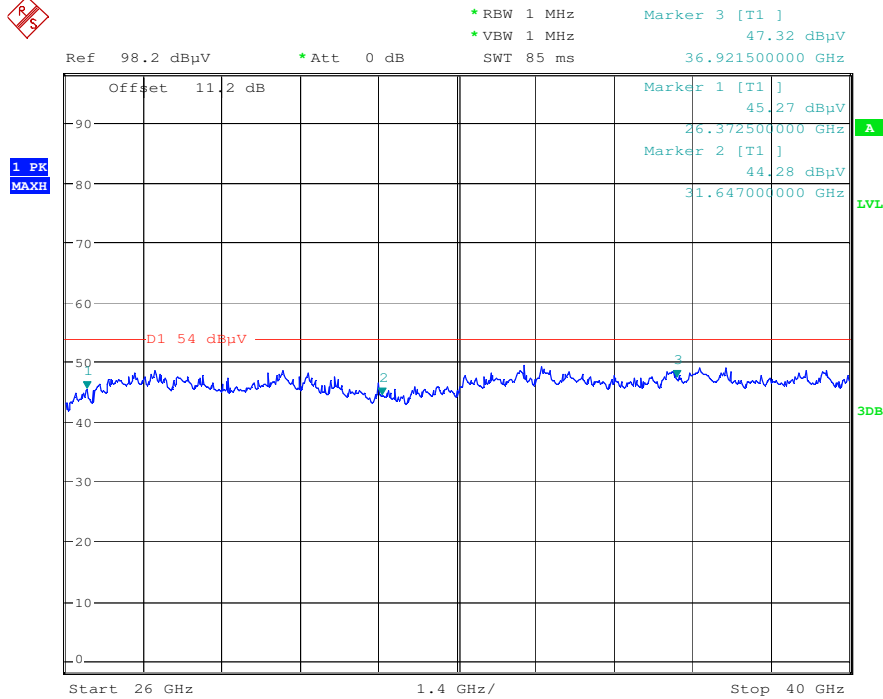
Date: 5.OCT.2009 16:08:35

Spurious Emissions 26 - 40 GHz, frequency sweep stopped - mid frequency



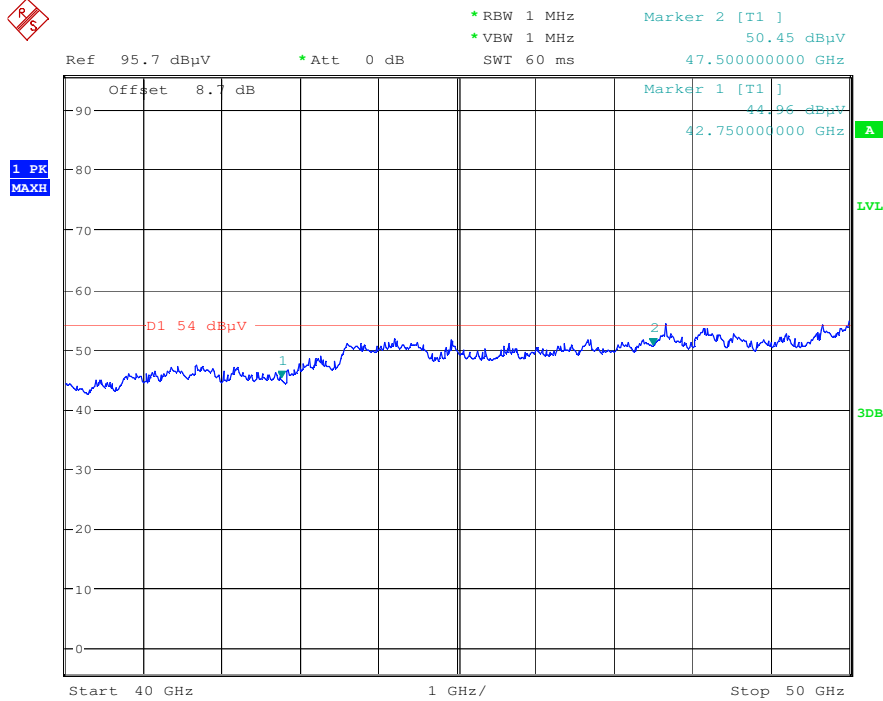
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Spurious Emissions 26 - 40 GHz, frequency sweep stopped - high frequency



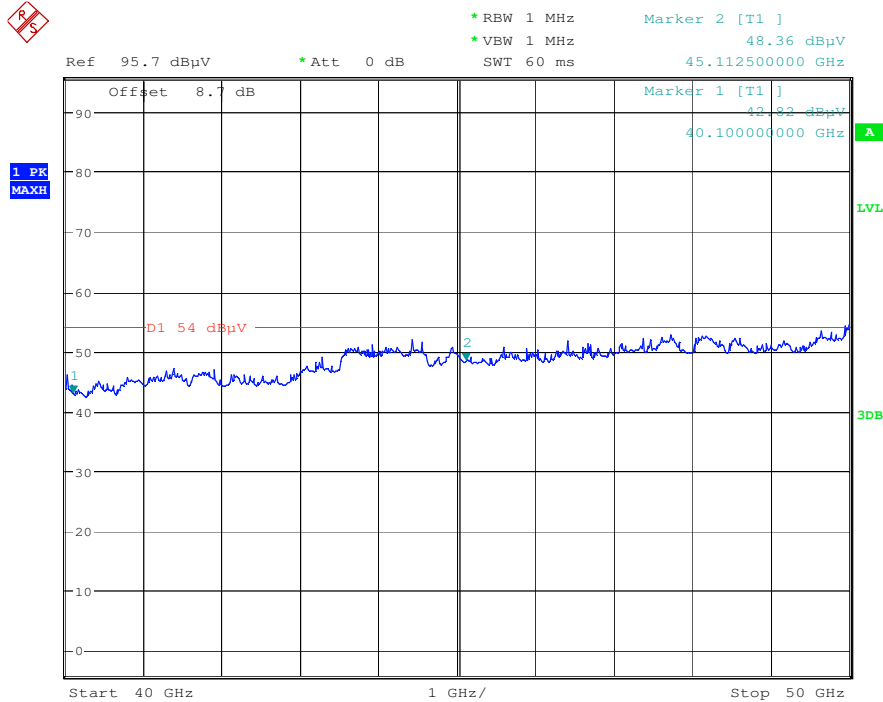
Date: 5.OCT.2009 16:15:47

Spurious Emissions 40 - 50 GHz, frequency sweep stopped - low frequency



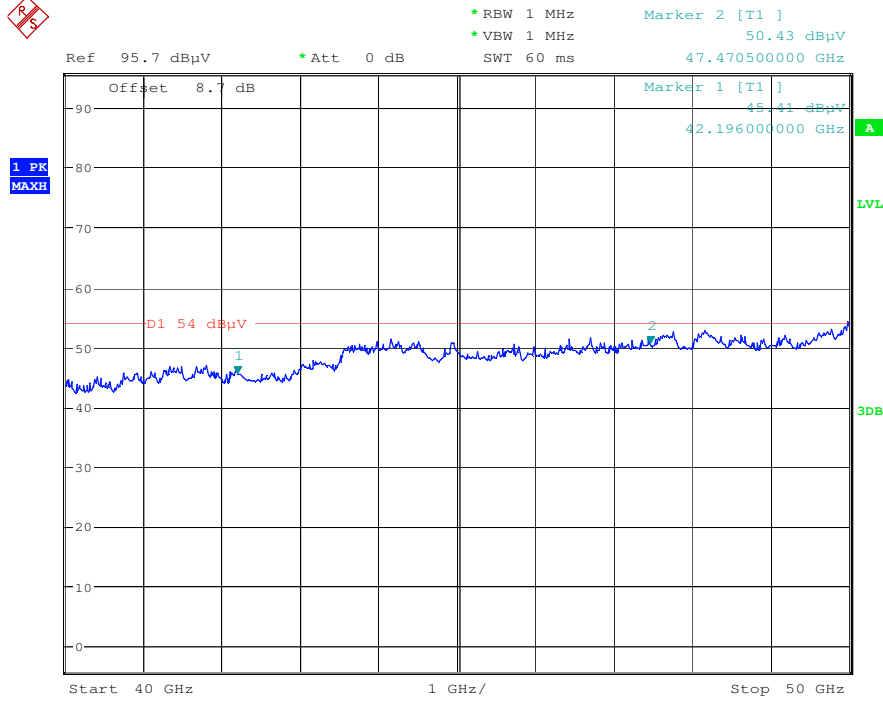
Date: 5.OCT.2009 16:35:41

Spurious Emissions 40 - 50 GHz, frequency sweep stopped - mid frequency



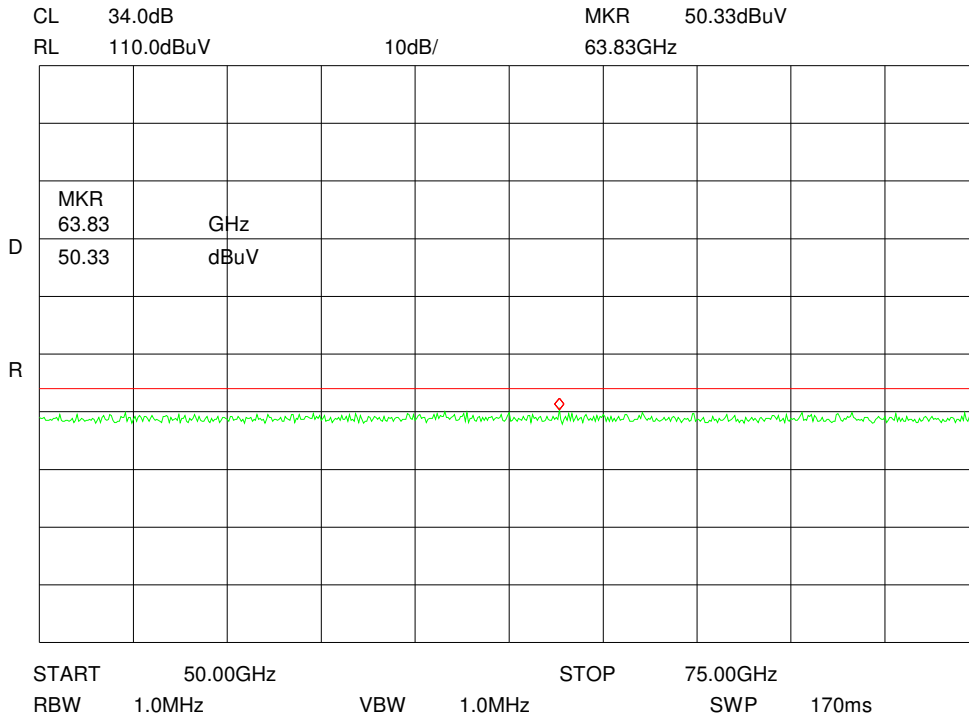
Date: 5.OCT.2009 16:30:07

Spurious Emissions 40 - 50 GHz, frequency sweep stopped - high frequency

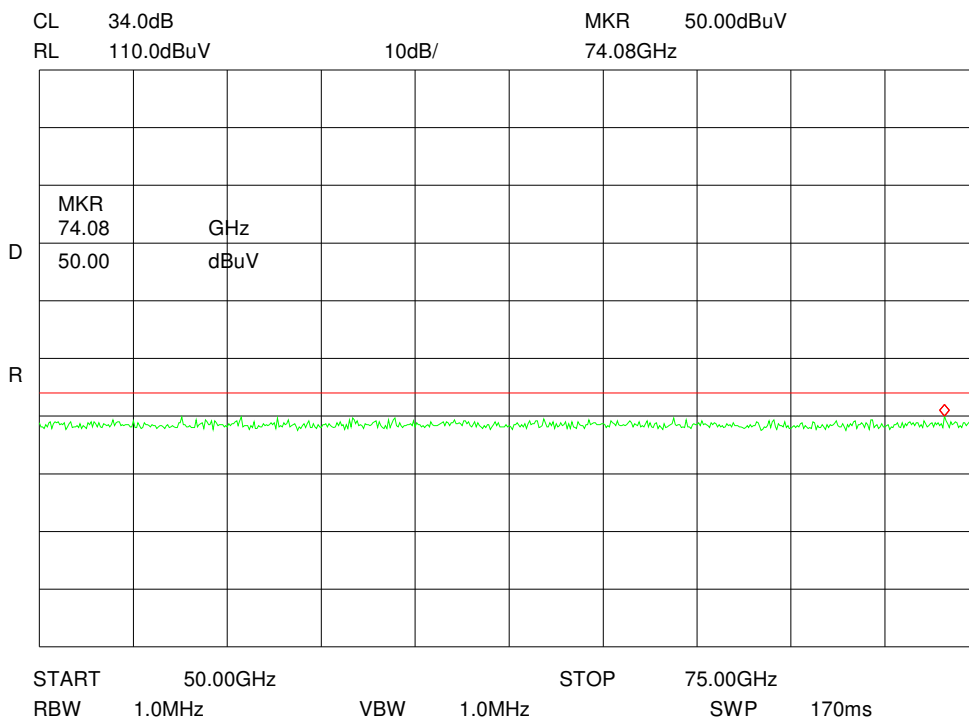


Date: 5.OCT.2009 16:27:16

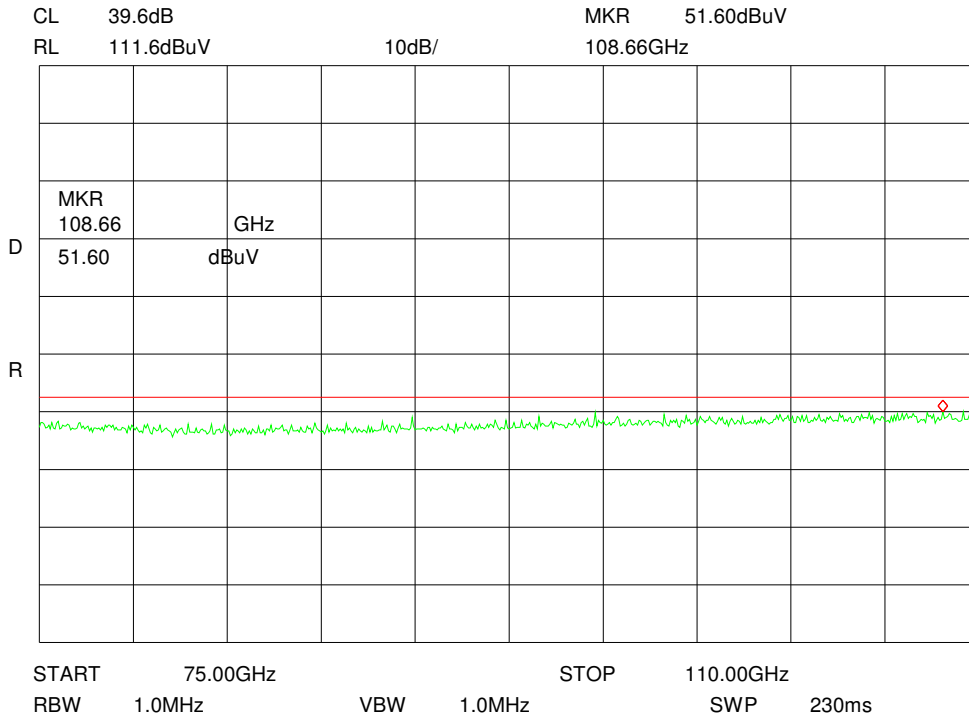
Spurious Emissions 50 - 75 GHz, frequency sweep stopped - low frequency



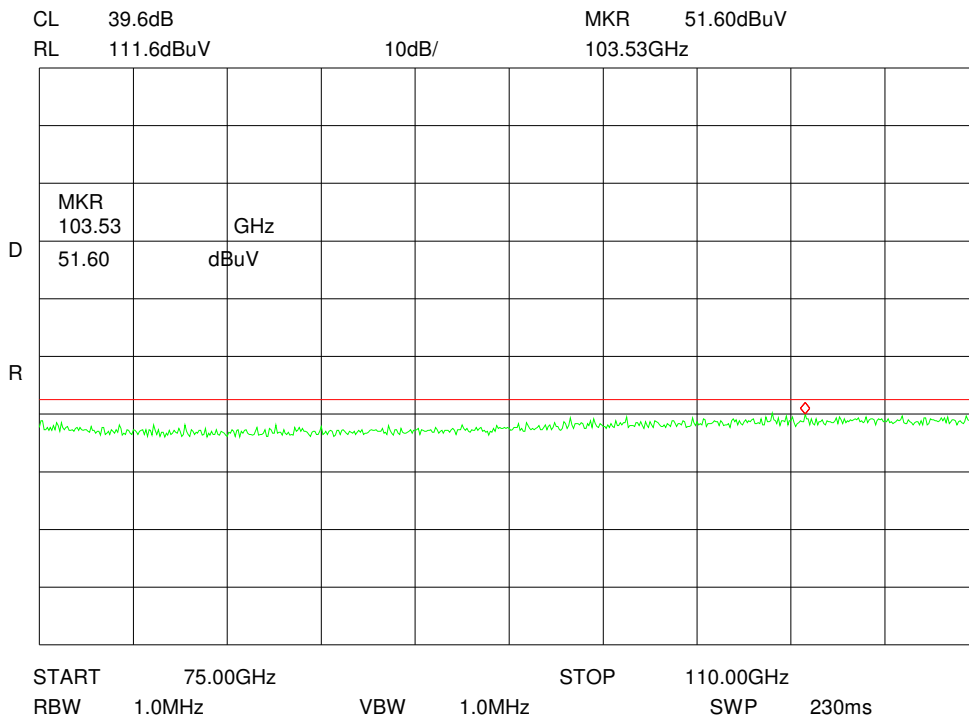
Spurious Emissions 50 - 75 GHz, frequency sweep stopped - mid frequency



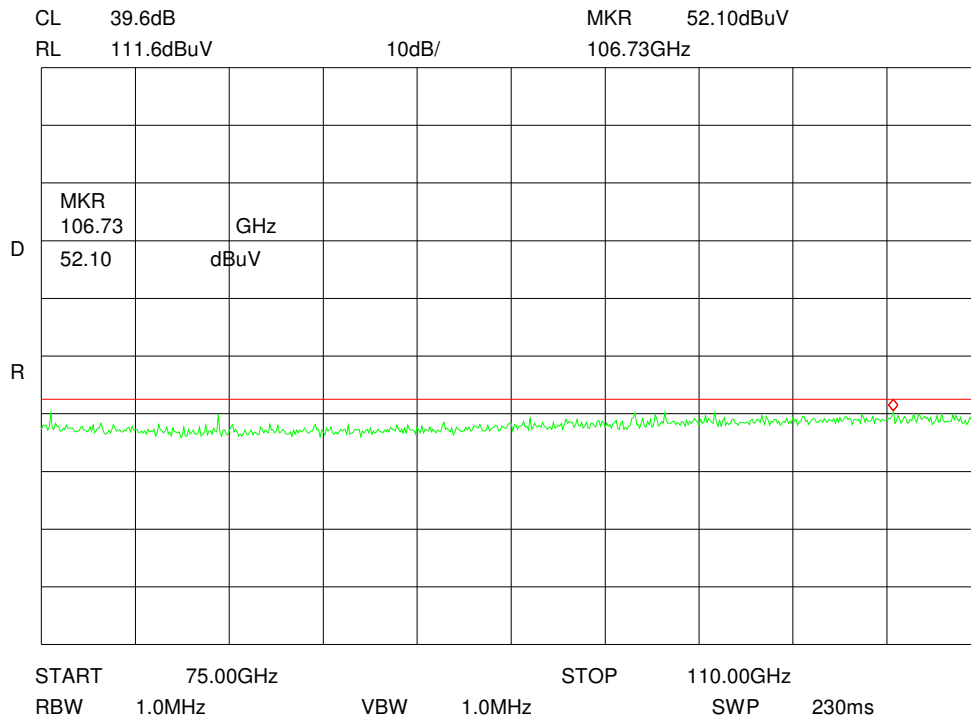
Spurious Emissions 75 - 110 GHz, frequency sweep stopped - low frequency



Spurious Emissions 75 - 110 GHz, frequency sweep stopped - mid frequency



Spurious Emissions 75 - 110 GHz, frequency sweep stopped - high frequency



3.5 Conducted Emissions

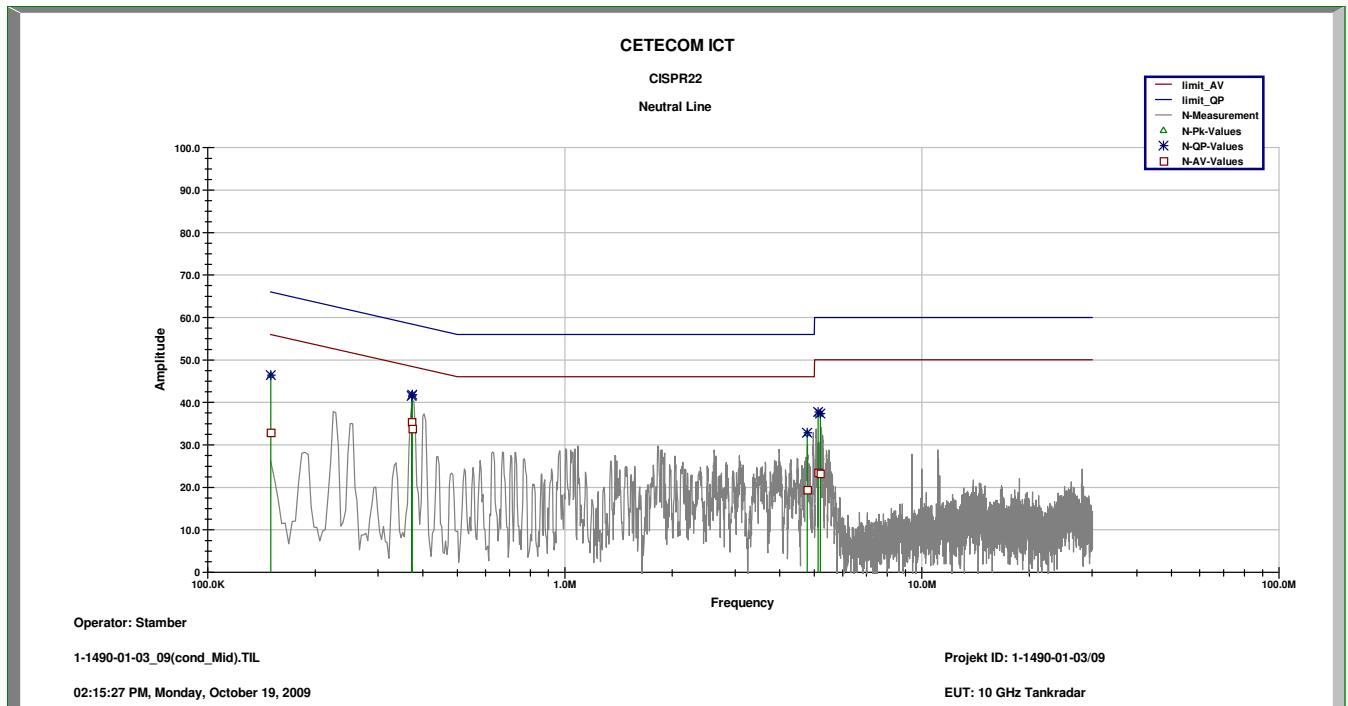
Reference

FCC:	§ 15.207
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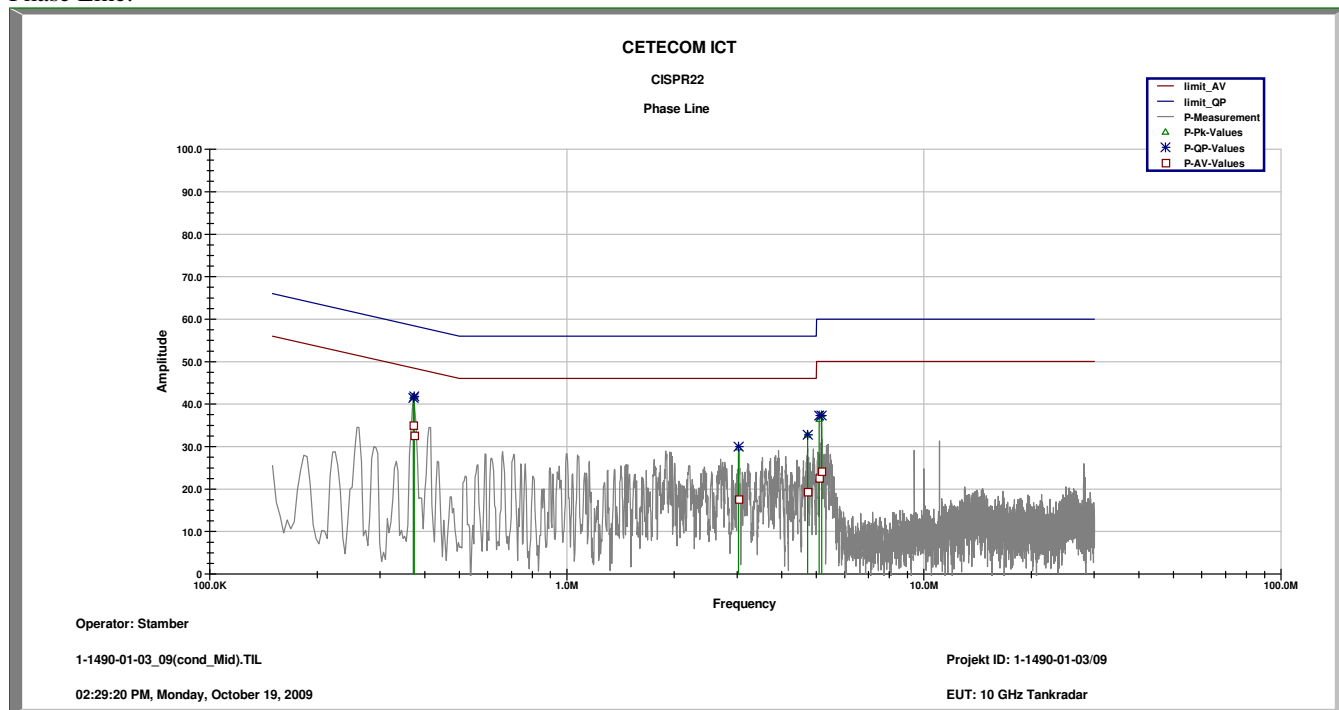
Results:

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

3.6 Frequency Stability

Reference

FCC:	§ 2.1055
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Measurement result:

U _{DC}	Temperature t	Frequency	Measured Frequency	Difference
[V]	[°C]	[GHz]	[GHz]	[ppm]
15.0	-40.0	9.5	9.499 974 5	-2.7
15.0	-30.0	9.5	9.499 980 7	-2.0
15.0	-20.0	9.5	9.499 985 8	-1.5
15.0	-10.0	9.5	9.499 991 7	-0.9
15.0	0.0	9.5	9.499 997 5	-0.3
15.0	+10.0	9.5	9.500 000 0	0.0
9.0	+20.0	9.5	9.500 001 7	0.2
15.0	+20.0	9.5	9.500 002 5	0.3
30.0	+20.0	9.5	9.500 003 3	0.3
15.0	+30.0	9.5	9.500 006 7	0.7
15.0	+40.0	9.5	9.500 001 7	0.2
15.0	+50.0	9.5	9.500 000 8	0.1
15.0	+60.0	9.5	9.499 999 2	-0.1
15.0	+70.0	9.5	9.499 997 5	-0.3
15.0	+80.0	9.5	9.499 995 0	-0.5

Limit: ± 0.001 % / ± 10.0 ppm

4 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 C:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Anechoic chamber	MWB	87400/02	300000996	Monthly verification		
2	System-Rack 85900	HP I.V.	*	300000222	n.a.		
3	Measurement System 1						
4	PSA-Spektrumanalysator 3 Hz - 26.5 GHz (E4440A)	Agilent	MY48250080	300003812	05.08.2008	24	05.08.2010
5	EMI Preselector 9 kHz - 1 GHz (N9039A)	Agilent	MY48260003	300003825	19.08.2008	24	19.08.2010
6	Microwave Analog Signal Generator (N5183A)	Agilent	MY47420220	300003813	06.08.2008	24	06.08.2010
7	PC	F+W			n.a.		
8	TILE	TILE			n.a.		
9	TRILOG Super Broadband Antenna (VULB9163)	Schwarzbeck	371	300003854	Monthly verification (System cal.)		
10	Double Ridged Antenna 3115	EMCO	3088	300001032	Monthly verification (System cal.)		
11	Active Loop Antenna 6502	EMCO	2210	300001015	Monthly verification (System cal.)		
12	Switch / Control Unit 3488A	HP	2719A15013	300001156	n.a.		
13	Power Supply 6032A	HP	2818A03450	300001040	08.01.2009	36	08.01.2012
14	Busisolator	Kontron		300001056	n.a.		
15	Leitungsteiler 11850C	HP		300000997	Monthly verification (System cal.)		
16	Power attenuator 8325	Byrd	1530	300001595	Monthly verification (System cal.)		
17	Band reject filter WRCG1855/1910	Wainwright	7	300003350	Monthly verification (System cal.)		
18	Band reject filter WRCG2400/2483	Wainwright	11	300003351	Monthly verification (System cal.)		
19	Hochpassfilter WHK1.1/15G-10SS	Wainwright	3	300003255	Monthly verification (System cal.)		
20	Hochpassfilter WHKX2.9/18G-12SS	Wainwright	1	300003492	Monthly verification (System cal.)		
21	Hochpassfilter WHKX7.0/18G-8SS	Wainwright	18	300003789	Monthly verification (System cal.)		
22	Switch / Control Unit 3488A	HP	2605e08770	300001443	n.a.		
23	Trenntrafo RT5A	Grundig	9242	300001263	n.a.		
24	Relais Matrix PSU	R&S	890167/024	300001168	n.a.		
25	Netznachbildung ESH3-Z5	R&S	828576/020	300001210	n.a.		

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Anechoic chamber F:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Control Computer	F+W	FW0502032	300003303	-/-	-/-	-/-
2	Trilog Antenna VULB 9163	Schwarzbeck	295	300003787	01.04.2008	24	01.04.2010
3	Amplifier - 0518C-138	Veritech Micro-wave Inc.	-/-	-/-	-/-	-/-	-/-
4	Switch - 3488A	HP		300000368	-/-	-/-	-/-
5	EMI Test receiver - ESCI	R&S	100083	300003312	01.06.2009	24	01.06.2011
6	Turntable Controller - 1061 3M	EMCO	1218	300000661	-/-	-/-	-/-
7	Tower Controller 1051 Controller	EMCO	1262	300000625	-/-	-/-	-/-
8	Tower - 1051	EMCO	1262	300000625	-/-	-/-	-/-
10	Ultra Notch-Filter Rejected band Ch. 62	WRCD	9	-/-	-/-	-/-	-/-

Microwave Laboratory:

No.	Instrument/Ancillary	Manufacturer	Type	Serial-No.	Internal identification
1	Spectrum Analyser	HP	HP 8565E	3738A00773	300001665
2	Spectrum Analyser	Rohde & Schwarz	FSU50	200012	300003443
3	SGH 12.0 ... 18.0 GHz	narda	639	8402	300000787
4	SGH 18.0 ... 26.0 GHz	narda	638	8206	300002442
5	SGH 26.0 ... 40.0 GHz	narda	V637	7911	300000510
6	SGH 40.0 ... 50.0 GHz	Flann	2324-20	57	--
7	SGH 50.0 ... 75.0 GHz	Thomson	COR 50_75	--	300000813
8	SGH 75.0 ... 110.0 GHz	Thomson	COR 75_110	--	30000798b
9	Mixer 50.0 ... 75.0 GHz	HP	11970V	--	30000781i
10	Mixer 75.0 ... 110.0 GHz	HP	11970W	--	30000781e
11	Microwave Amplifier	HP	83017A	3116A00297	300002268
12	Microwave Amplifier	Farran Technology	--	--	--
13	RF-cable	HP	5061-5359	--	300002035

5 Annex A: Photographs of Test site

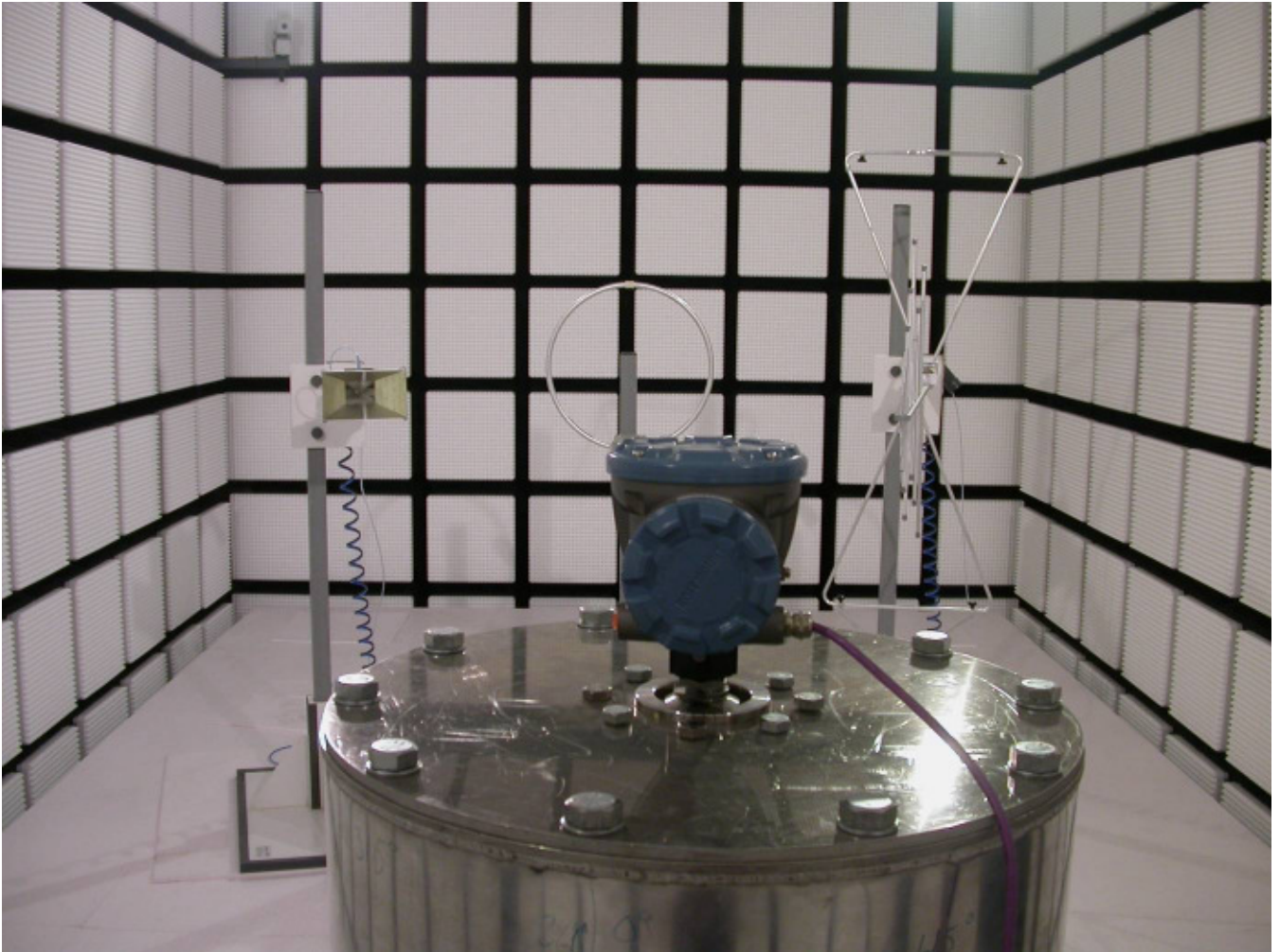


Photo 1 (Radiated Emissions)



Photo 2 (Radiated Emissions)



Photo 3 (Radiated Emissions)

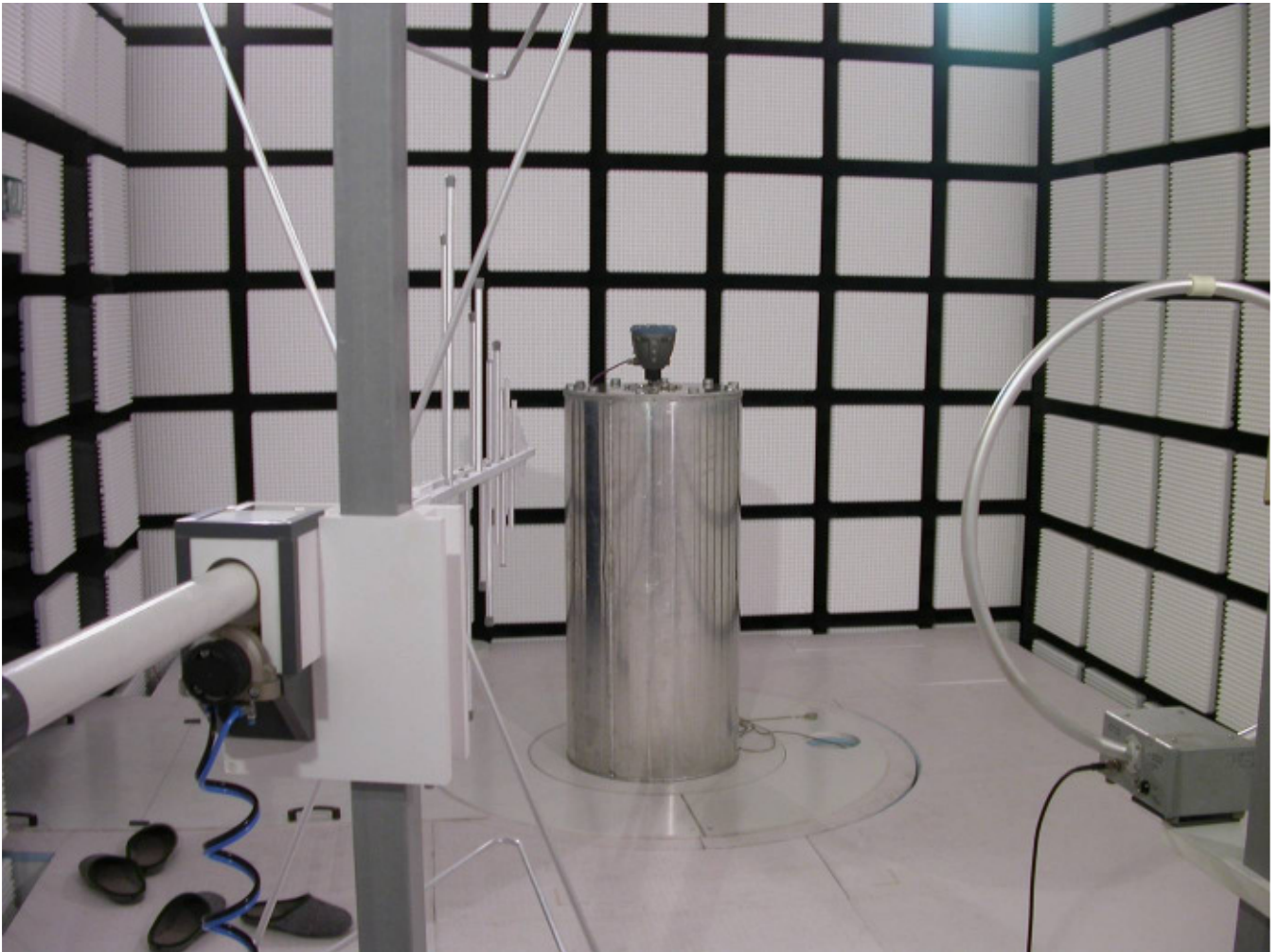


Photo 4 (Radiated Emissions)

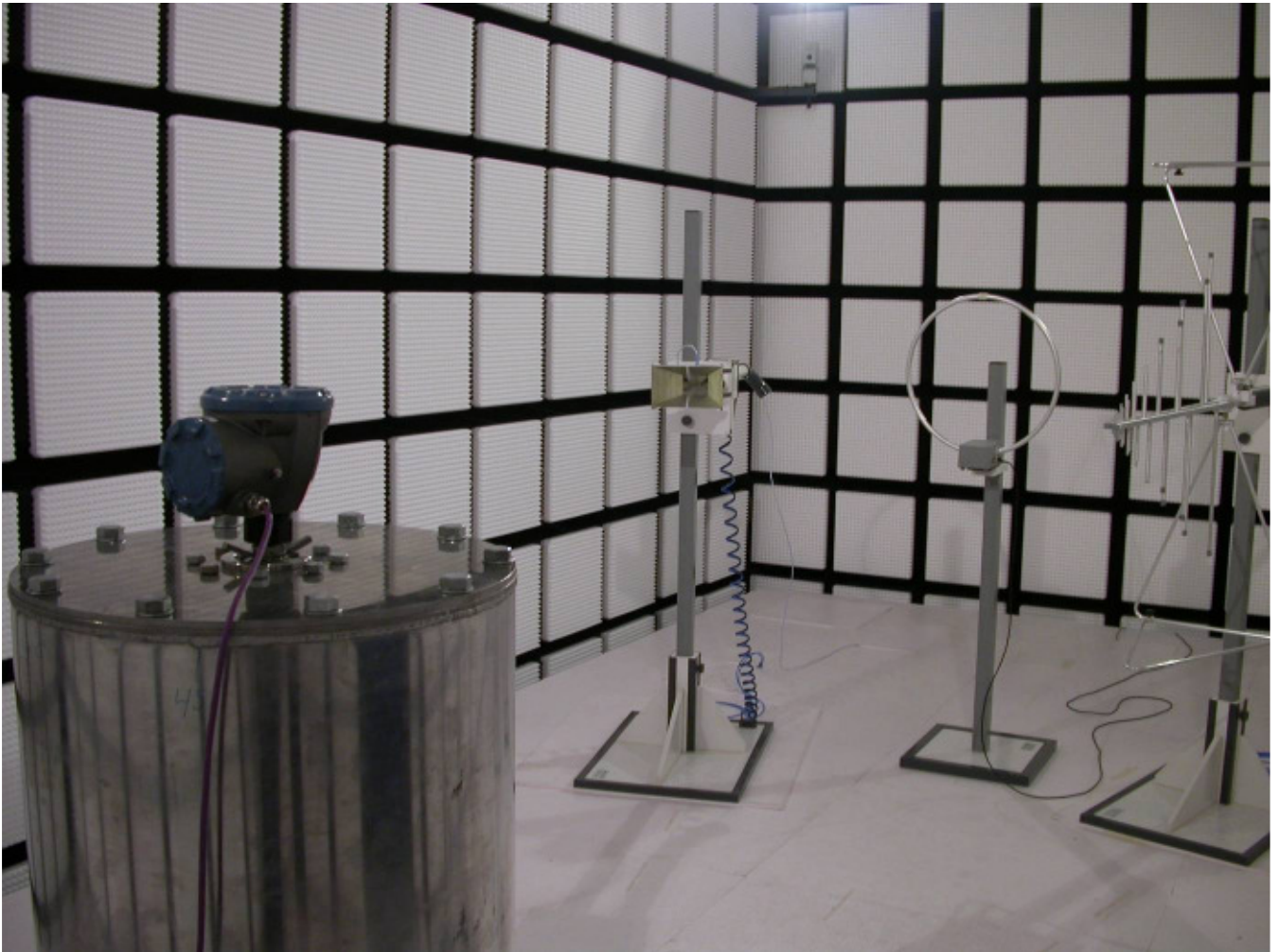


Photo 5 (Radiated Emissions)

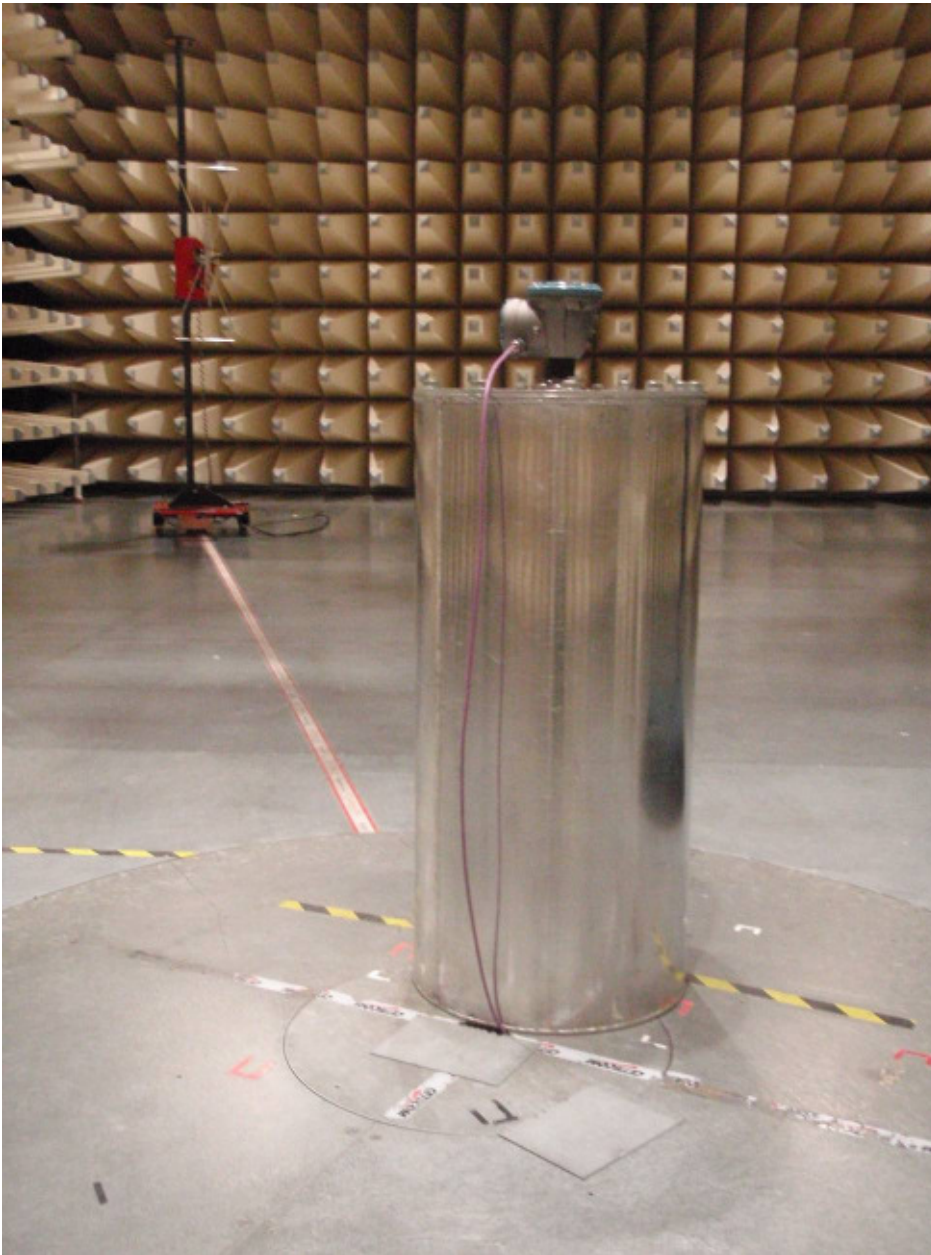


Photo 6 (Radiated Emissions)

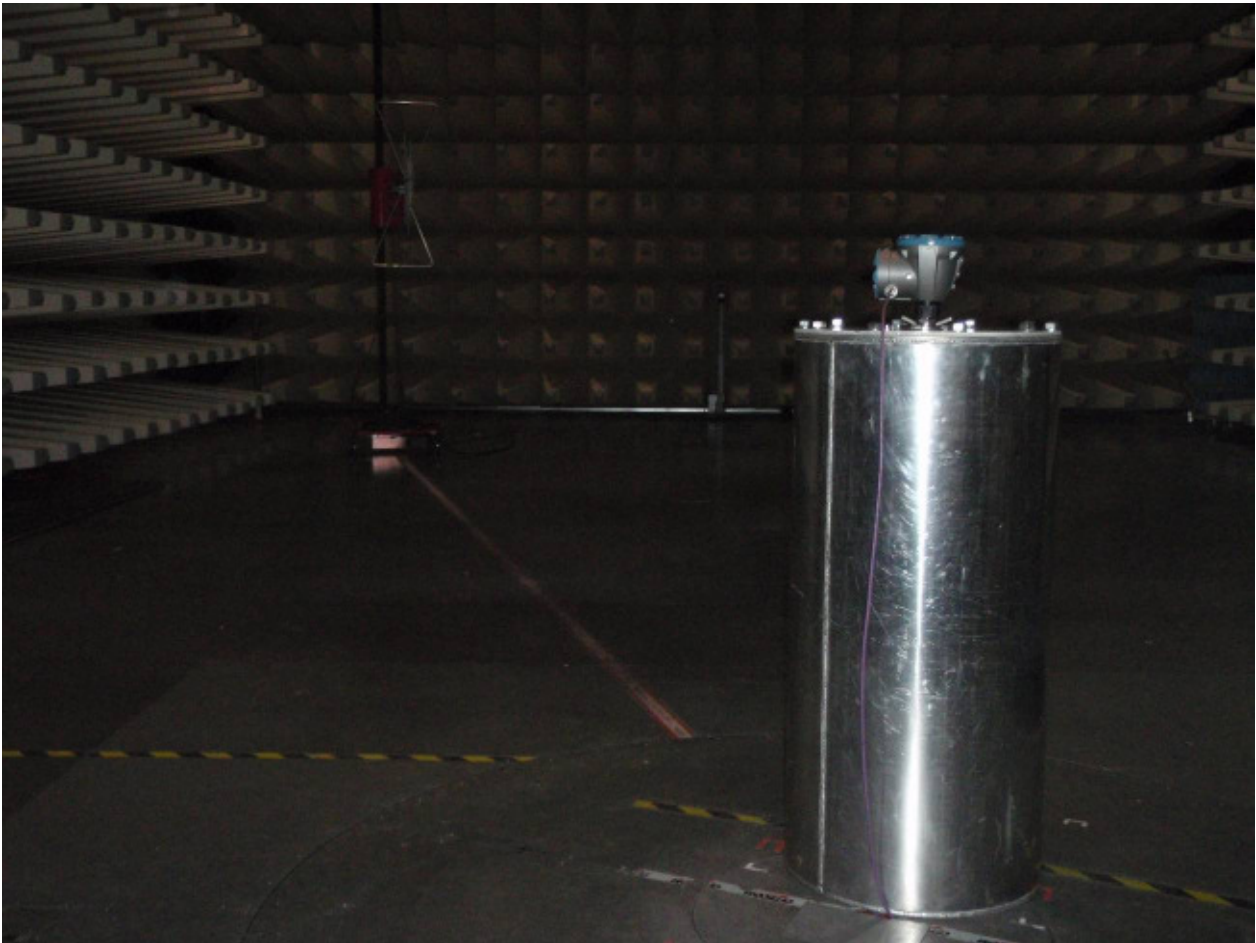


Photo 7 (Radiated Emissions)

6 Annex B: External Photographs of the Equipment

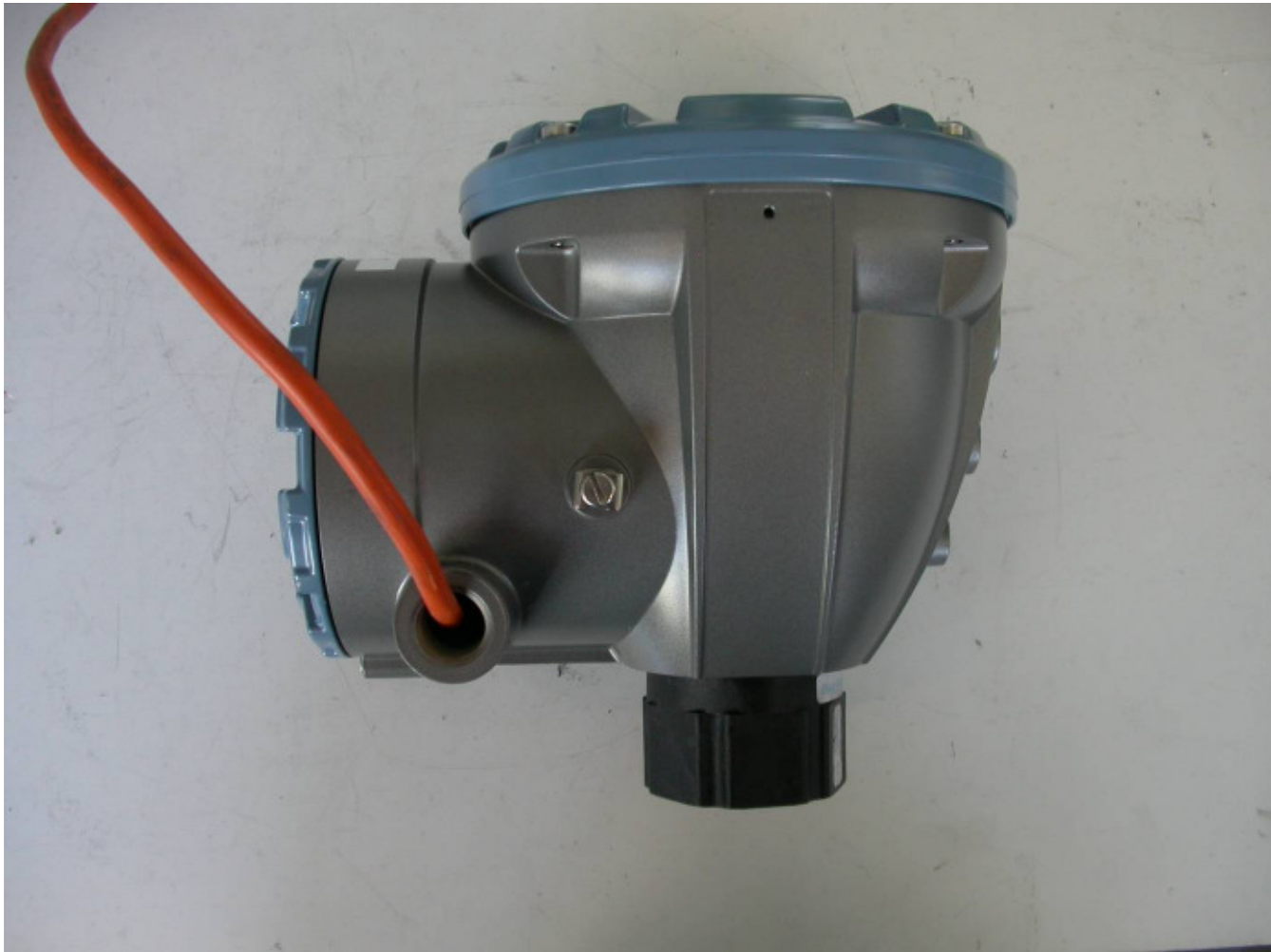


Photo 8 (EUT)

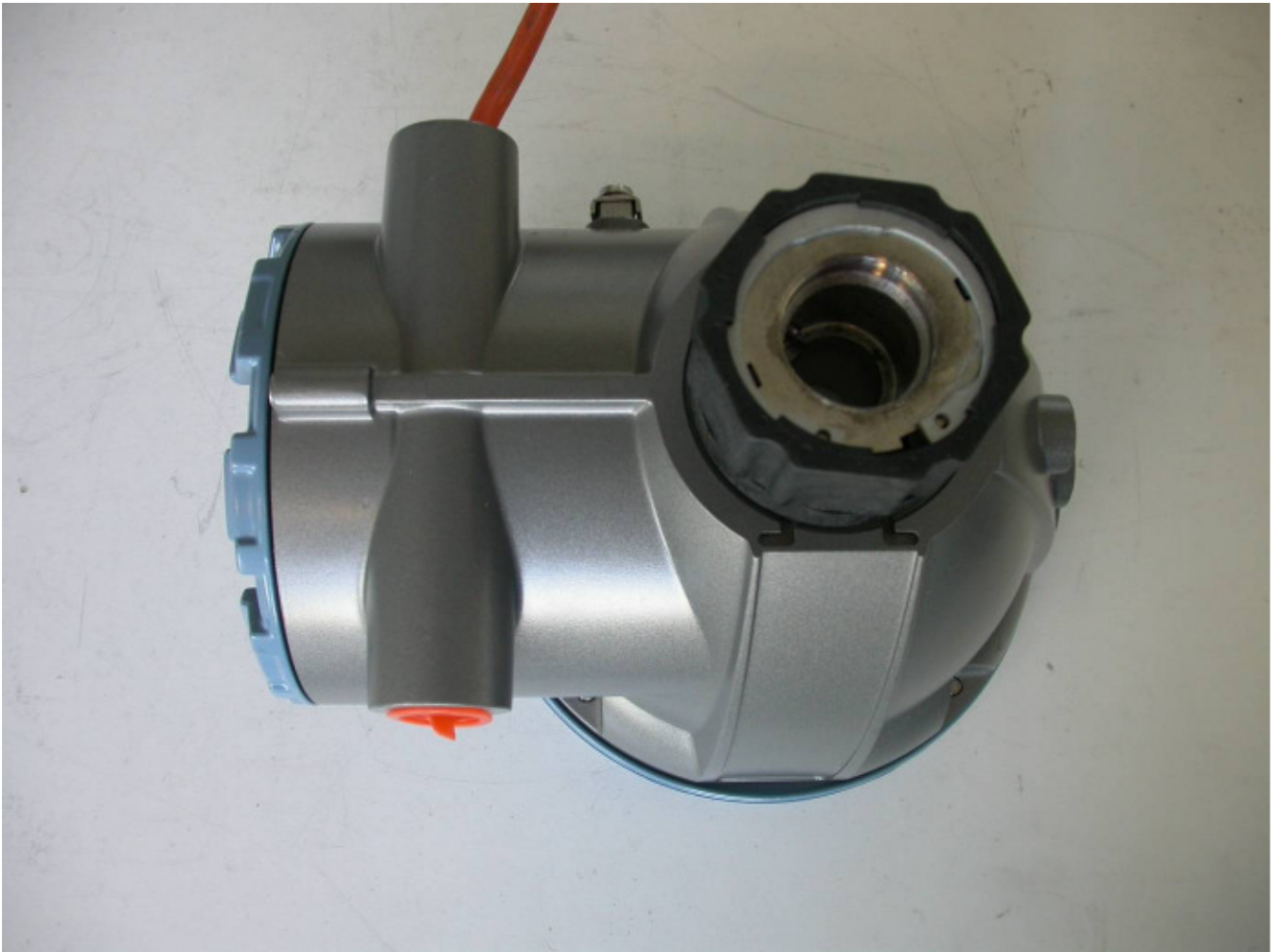


Photo 9 (EUT waveguide)



Photo 10 (EUT with horn antenna mounted)



Photo 11 (EUT with horn antenna mounted)

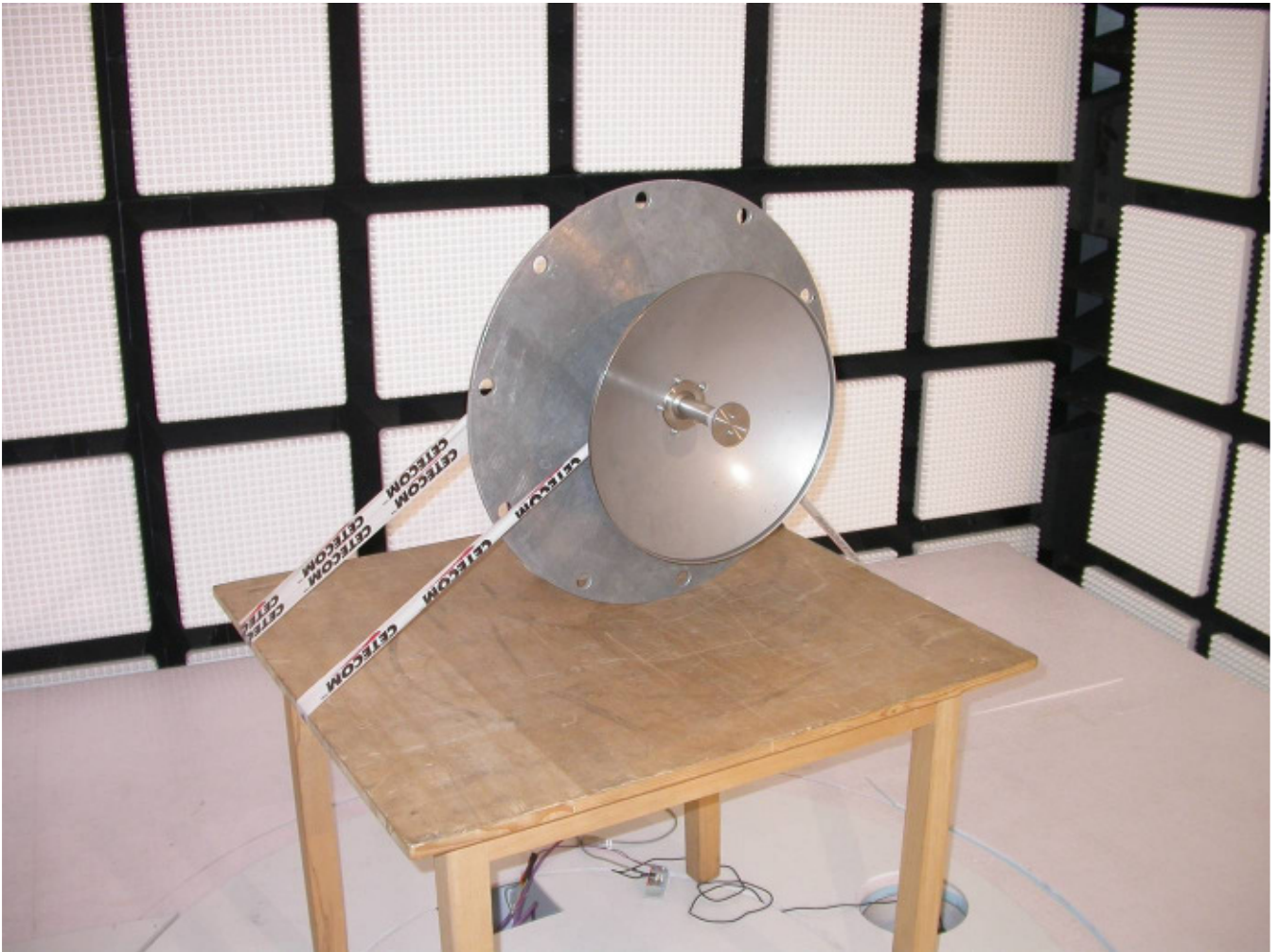


Photo 12 (EUT with parabolic antenna mounted)

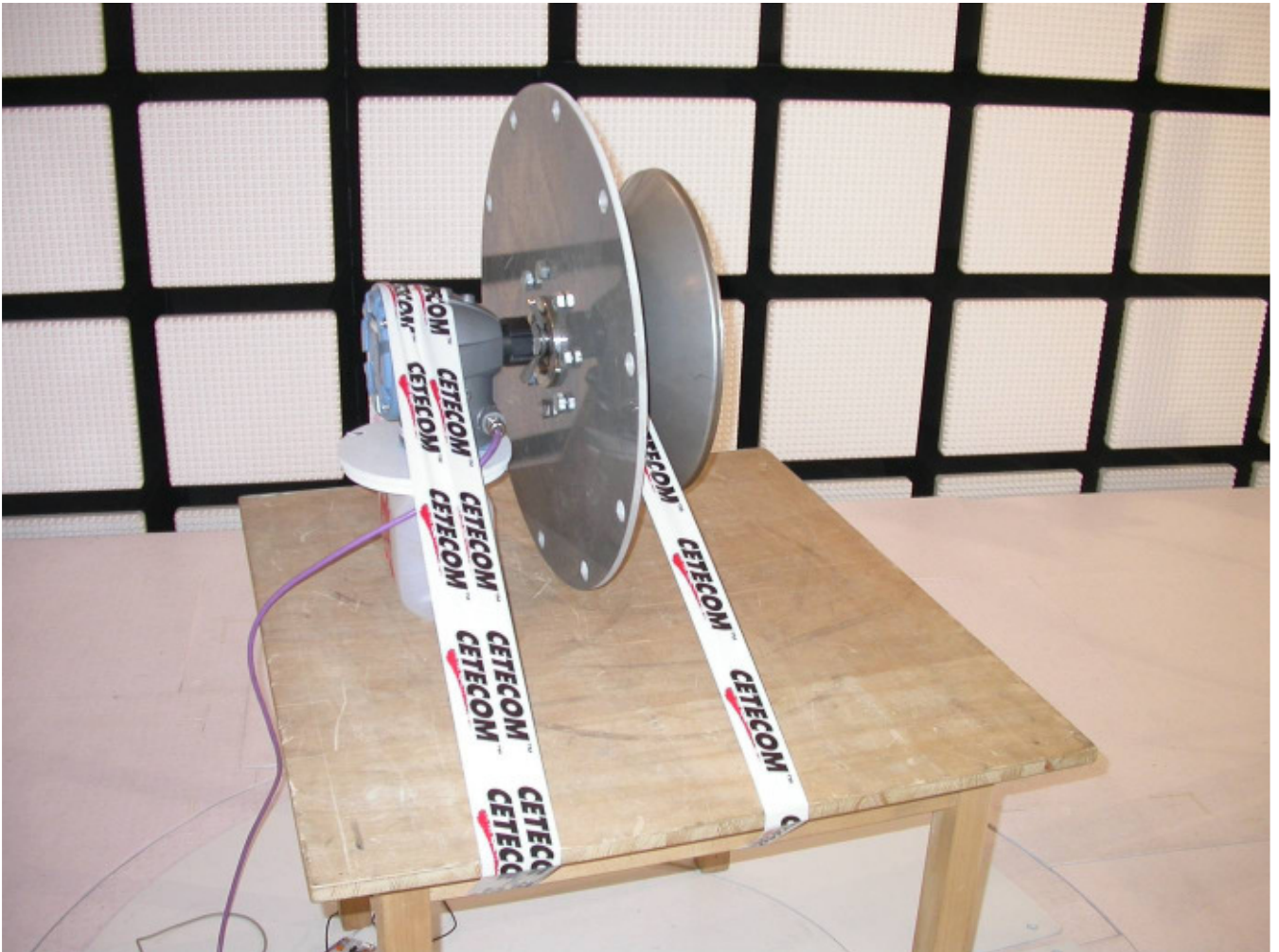


Photo 13 (EUT with parabolic antenna mounted)



Photo 13 (test tank)

7 Annex C: INTERNAL PHOTOGRAPHS OF THE EQUIPMENT

- see attachment